

# STRUCTURE SURVEY TEMPLATE







				DATE	3/5/08
ROAD NAME		V/S of confluence w/SCR		COUNTY	
STREAM NAME		Balcon Canyon Wash		PHOTO ID #	
STRUCTURE #		BCW1		X,Y COORDINATE	
TYPE	LENGTH	SIZE (W X H) & SHAPE	MATERIAL	Road to Bed	INLET/OUTLET TYPE
Railroad Bridge		19' x 7'		Top of Road EL	
SPECIAL NOTE (Conditions, Blockage, etc)		Pedestrian / For an equipment Bridge vertical concrete abutments			
HIGH WATER MARK (Description, Witness, and Date)					
TYPE		CULVERT TYPE	MATERIAL	Road to Bed	INLET/OUTLET TYPE
Bridge <u>Span Bridge</u> Pier Shape Culvert Dam Spillway Riser Barrel Outlet		Number of Barrels  1) Circular 2) Rectangle (Span X Rise) 3) Elliptical 4) Con/Span 5) Elevated Arch 6) Pipe Arch 7) Other	RCP (Reinforced Concrete Pipe) CMP (Corrugated Metal Pipe) Bitmus Coated Steel <u>Timber</u> Ductile Clay Masonry Rock	Height from Top of Road to Invert  <u>Top of Road EL</u>  From Topo Map (FT.NGVD) or (FT.NAVD)	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

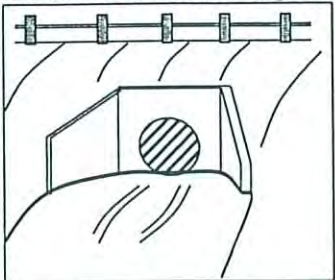


### Types (Shape) of Culvert

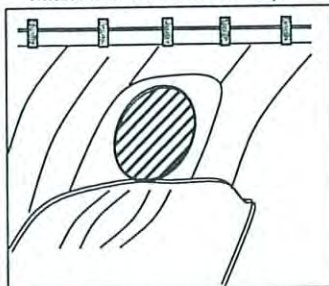
- |   |   |   |
|---|---|---|
|  |  |  |
| 1) Circular   | 2) Rectangle  | 3) Elliptical   |
|  |  |  |
| 4) Con/Span   | 5) Elevated Arch  | 6) Pipe Arch  |
| 7) Other  |   |   |

### Inlet/Outlet Type

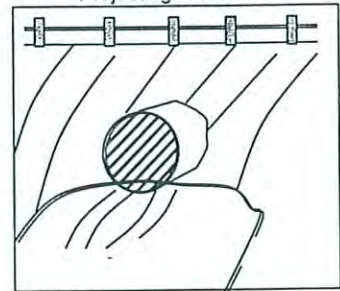
Culvert with Headwall & Wingwalls



Mitered to Conform to Slope



Projecting from Fill

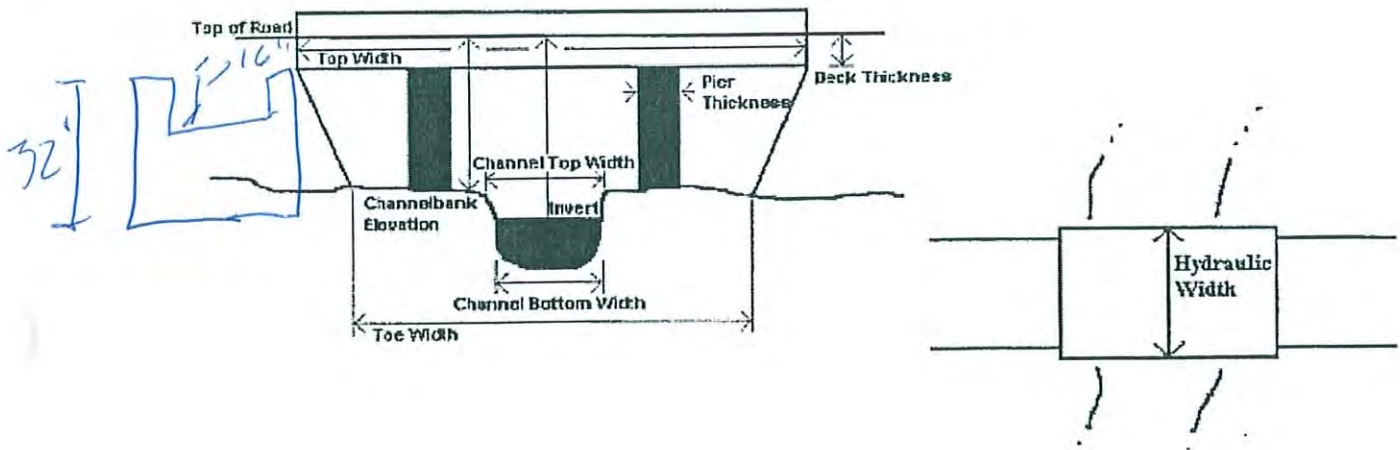


### CHANNEL INFORMATION

ROAD TO BANK	CHANNEL TOP WIDTH	CHANNEL BOTTOM WIDTH

### BRIDGE INFORMATION

DECK THICKNESS	TOP WIDTH	TOE WIDTH
32"	11'	
HYDRAULIC WIDTH	NUMBER OF PIERS	PIER THICKNESS



Name	Description	PHOTOS
84	d/s side of bridge	looking d/s
85	u/s "	" " u/s
86	u/s "	" " d/s

ADDITIONAL CHANNEL INFORMATION

Ag.

Land Use

dense shrubs + small trees along bank

Vegetative Cover

sandy silt

Bed Material

overgrown w/ vegetation on banks,  
clear bottom - sandy.

General Channel Condition

eroded banks, shallow channel  
~ 3 to 5' deep.

Banks


Overbanks

## STRUCTURE SURVEY TEMPLATE

				DATE	3/3/08
ROAD NAME				South Mountain Rd.	
STREAM NAME				Balcolm Canyon Wash	
STRUCTURE #				BCW 2	
TYPE				X, Y COORDINATE	
LENGTH		SIZE (W X H) & SHAPE		MATERIAL	
		8x5'			
TYPE		Road to Bed		INLET/OUTLET TYPE	
Railroad Bridge					
		Top of Road EL			
SPECIAL NOTE (Conditions, Blockage, etc)		Channel has levees on both sides d/s of South Mountain Rd			
HIGH WATER MARK (Description, Witness, and Date)					
TYPE		CULVERT TYPE		MATERIAL	
TYPE		Road to Bed		INLET/OUTLET TYPE	
Bridge		Number of Barrels		RCP (Reinforced Concrete Pipe)	
Span Bridge				CMP (Corrugated Metal Pipe)	
Pier Shape				Bitmus Coated	
Culvert		1) Circular		Steel	
Dam		2) Rectangle (Span X Rise)		Timber	
Spillway		3) Elliptical		Ductile	
Riser Barrel		4) Con/Span		Clay	
Outlet		5) Elevated Arch		Masonry Rock	
		6) Pipe Arch			
		7) Other			
				Height from Top of Road to Invert	
				Top of Road EL	
				From Topo Map (FT.NGVD) or (FT.NAVD)	
				Headwall	
				Wingwalls Type 0°, 45°, 90°	
				Projecting	
				Flush with Slope	
				MES (Mitered End Section)	
				FES (Flared End Section)	

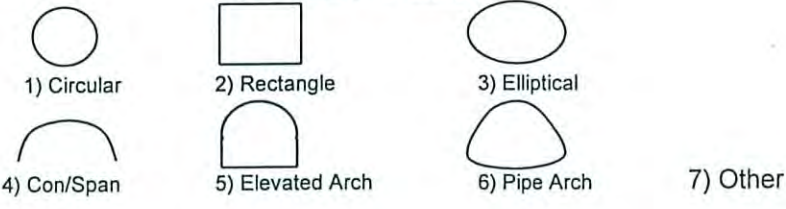
**Pier Shape**

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



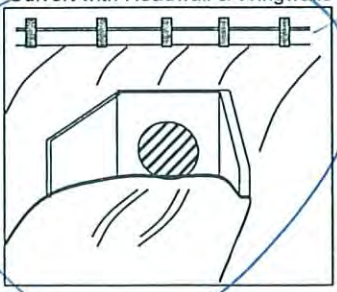
**Types (Shape) of Culvert**

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

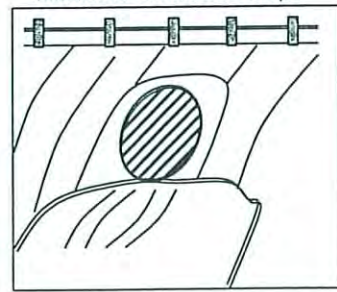


**Inlet/Outlet Type**

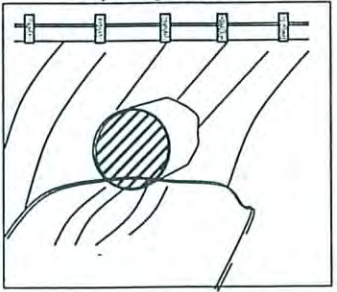
Culvert with Headwall & Wingwalls



Mitered to Conform to Slope



Projecting from Fill

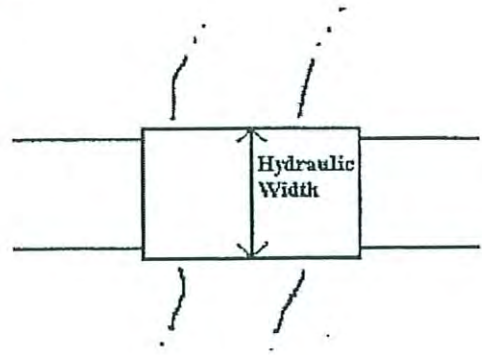
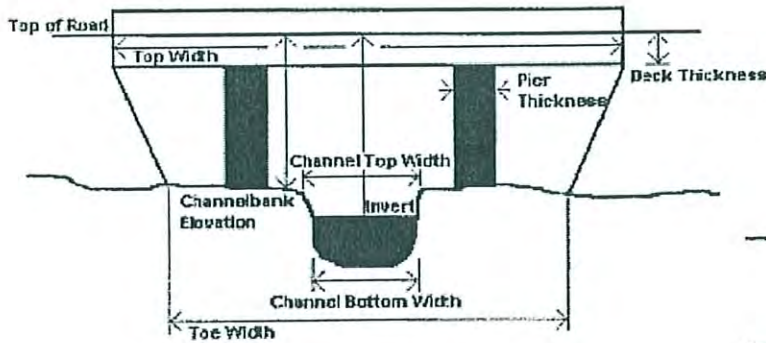


### CHANNEL INFORMATION

ROAD TO BANK	CHANNEL TOP WIDTH	CHANNEL BOTTOM WIDTH

### BRIDGE INFORMATION

DECK THICKNESS	TOP WIDTH	TOE WIDTH
~ 3' to top of Rd.		
HYDRAULIC WIDTH	NUMBER OF PIERS	PIER THICKNESS



### PHOTOS

Name	Description
87	d/s side of culvert looking d/s.
88	d/s side of culvert looking u/s.
89	u/s side of culvert looking d/s.
90	u/s side of culvert looking u/s.
91	~ 100' u/s of culvert looking u/s.

ADDITIONAL CHANNEL INFORMATION

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Land Use

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Vegetative Cover

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Bed Material

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General Channel Condition

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d/s side, erosive sandy material.  
u/s side of channel is concrete lined, nearly vertical walls.

Banks

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Overbanks


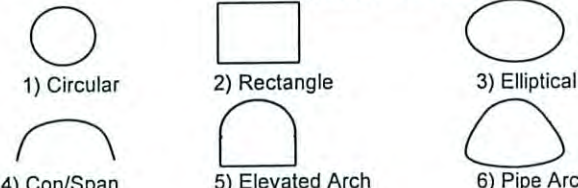
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tributary  
~ 4' diameter culvert entering it  
side, u/s of Road.

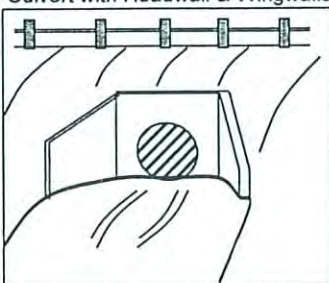
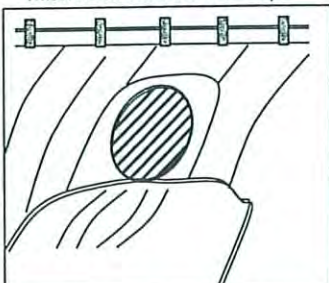
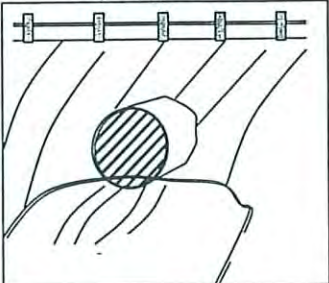
# STRUCTURE SURVEY TEMPLATE

				<b>DATE</b>	3/3/08
<b>ROAD NAME</b>				<b>COUNTY</b>	
<b>STREAM NAME</b>				<b>PHOTO ID #</b>	
<b>STRUCTURE #</b>		<b>X,Y COORDINATE</b>			
<b>TYPE</b>	<b>LENGTH</b>	<b>SIZE (W X H) &amp; SHAPE</b>	<b>MATERIAL</b>	<b>Road to Bed</b>	<b>INLET/OUTLET TYPE</b>
Railroad Bridge				<b>Top of Road EL</b>	
<b>SPECIAL NOTE</b> (Conditions, Blockage, etc)		U/S end of study reach			
<b>HIGH WATER MARK</b> (Description, Witness, and Date)					
<b>TYPE</b>		<b>CULVERT TYPE</b>	<b>MATERIAL</b>	<b>Road to Bed</b>	<b>INLET/OUTLET TYPE</b>
Bridge Span Bridge Pier Shape		Number of Barrels  1) Circular 2) Rectangle (Span X Rise)	RCP (Reinforced Concrete Pipe) CMP (Corrugated Metal Pipe) Bitmus Coated	Height from Top of Road to Invert  <b>Top of Road EL</b>	Headwall Wingwalls Type 0°, 45°, 90° Projecting Flush with Slope
Culvert Dam Spillway Riser Barrel Outlet		3) Elliptical 4) Con/Span 5) Elevated Arch 6) Pipe Arch 7) Other	Steel Timber Ductile Clay Masonry Rock	From Topo Map (FT.NGVD) or (FT.NAVD)	MES (Mitered End Section) FES (Flared End Section)

**Pier Shape**

<ul style="list-style-type: none"> <li>1) Circular pier</li> <li>2) Twin-Cylinder piers</li> <li>3) Elongated pier</li> <li>4) Triangular nose</li> <li>5) Square nose</li> </ul>		<p><b>Types (Shape) of Culvert</b></p> <ul style="list-style-type: none"> <li>1) Circular</li> <li>2) Rectangle</li> <li>3) Elliptical</li> <li>4) Con/Span</li> <li>5) Elevated Arch</li> <li>6) Pipe Arch</li> <li>7) Other</li> </ul>	
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**Inlet/Outlet Type**

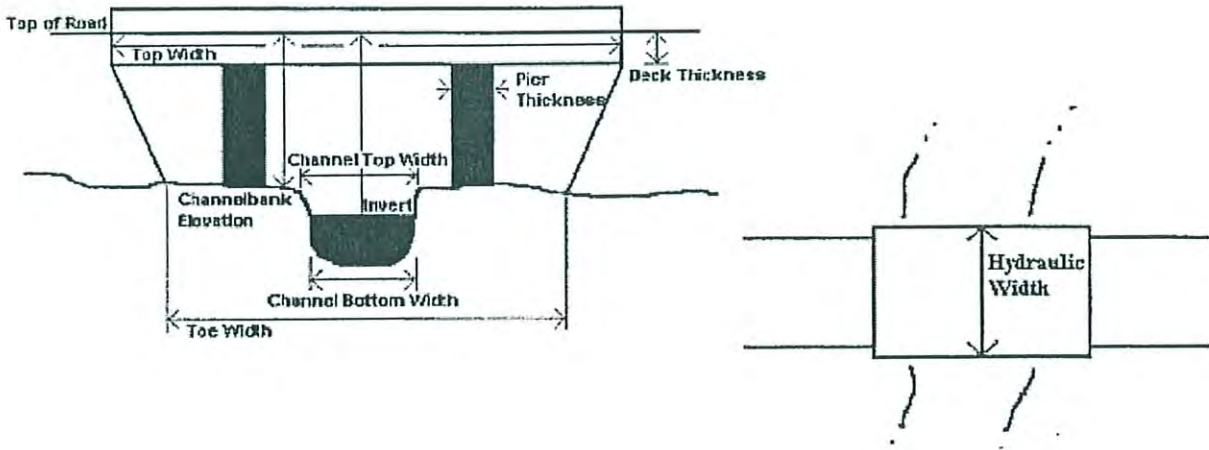
<p>Culvert with Headwall &amp; Wingwalls</p> 	<p>Mitered to Conform to Slope</p> 	<p>Projecting from Fill</p> 
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**CHANNEL INFORMATION**

ROAD TO BANK	CHANNEL TOP WIDTH	CHANNEL BOTTOM WIDTH

**BRIDGE INFORMATION**

DECK THICKNESS	TOP WIDTH	TOE WIDTH
HYDRAULIC WIDTH	NUMBER OF PIERS	PIER THICKNESS



		PHOTOS
Name	Description	
92	u/s end of study reach looking u/s	
93	u/s end of study reach looking d/s.	
94	Near Hardnege crossing - looking u/s	
95	Near Hardnege looking d/s.	



ADDITIONAL CHANNEL INFORMATION

Land Use

dense shrubs + small trees in  
channel

Vegetative Cover

sandy, erodible material

Bed Material

overgrown + eroded banks,  
channel meanders along road.

General Channel Condition

Banks

Overbanks