

STRUCTURE SURVEY TEMPLATE







					DATE	11/14/07
ROAD NAME			ER xing @ d/SEND of EB		COUNTY	Ventura
STREAM NAME			Edwards Barranca		PHOTO ID #	
STRUCTURE #			EB1		X,Y COORDINATE	
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)			dense vegetation u/s			
HIGH WATER MARK (Description, Witness, and Date)						
TYPE		CULVERT TYPE	MATERIAL	Road to Bed	INLET/OUTLET TYPE	
Bridge		Number of Barrels	RCP (Reinforced Concrete Pipe)	Height from Top of Road to Invert	Headwall	
Span Bridge		1) Circular	CMP (Corrugated Metal Pipe)	Top of Road EL	Wingwalls Type 0°, 45°, 90°	
Pier Shape		2) Rectangle (Span X Rise)	Bitmus Coated	From Topo Map (FT.NGVD) or (FT.NAVD)	Projecting	
Culvert		3) Elliptical	Steel		Flush with Slope	
Dam		4) Con/Span	Timber		MES (Mitered End Section)	
Spillway		5) Elevated Arch	Ductile		FES (Flared End Section)	
Riser Barrel		6) Pipe Arch	Clay			
Outlet		7) Other	Masonry Rock			

Pier Shape

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

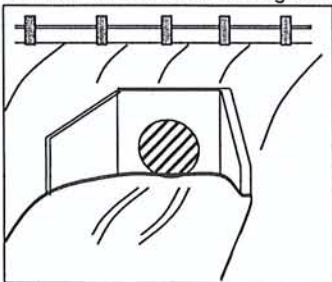


Types (Shape) of Culvert

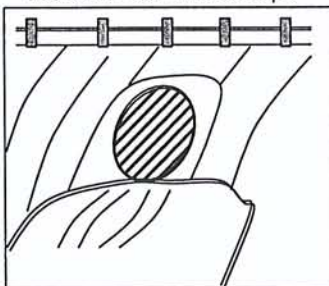
- | | | |
|---|---|---|
|  |  |  |
| 1) Circular | 2) Rectangle | 3) Elliptical |
|  |  |  |
| 4) Con/Span | 5) Elevated Arch | 6) Pipe Arch |
| 7) Other | | |

Inlet/Outlet Type

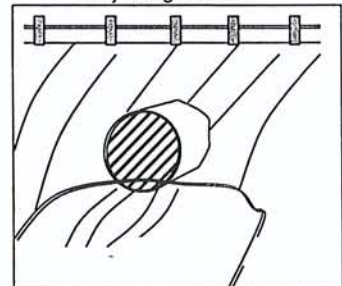
Culvert with Headwall & Wingwalls



Mitered to Conform to Slope



Projecting from Fill

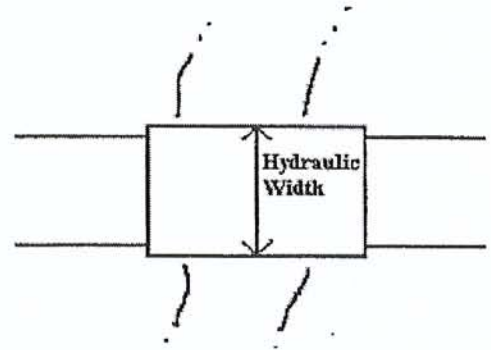
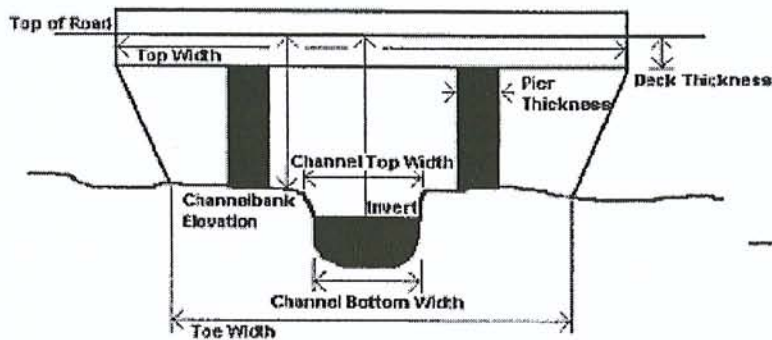


CHANNEL INFORMATION

ROAD TO BANK	CHANNEL TOP WIDTH	CHANNEL BOTTOM WIDTH

BRIDGE INFORMATION

DECK THICKNESS	TOP WIDTH	TOE WIDTH
<i>Varies</i>		
HYDRAULIC WIDTH	NUMBER OF PIERS	PIER THICKNESS
	<i>4</i>	<i>Varies 18" - 4'</i>



PHOTOS

Name	Description	PHOTOS
		<p>A hand-drawn sketch of a bridge structure. It shows two vertical timber abutments on either side of a central span. The span is supported by two I-beams. Dimensions are given in feet and inches: 17' for the height of the abutments, 5' for the width of the abutments, 60' for the length of the span, 17' for the height of the span, 8' for the height of the I-beams, 18" for the width of the I-beams, and 4' for the width of the abutments. Labels include 'vertical timber abutments', 'I-beam', and 'triangular rock'.</p>

ADDITIONAL CHANNEL INFORMATION

strawberry fields @ d/s end
lemon orchards @ u/s end
both overbanks

Land Use

dense vegetation - arundo, willow +
Eucalyptus

Vegetative Cover

cobbles

Bed Material

Overbank

General Channel Condition

natural sandy, erosive soil
very dense vegetation $n > 0.1$

Banks

Ag.

Overbanks

STRUCTURE SURVEY TEMPLATE







				DATE	11/14/07
ROAD NAME				COUNTY	Ventura
STREAM NAME				PHOTO ID #	
STRUCTURE #		X,Y COORDINATE			
TYPE	LENGTH	SIZE (W X H) & SHAPE	MATERIAL	Road to Bed	INLET/OUTLET TYPE
road Railroad Bridge		~ 2 40' x 15'		Top of Road/EL	
SPECIAL NOTE (Conditions, Blockage, etc)		Significant debris accumulation @ ups end of pier ~ 10' wide by 5' high			
HIGH WATER MARK (Description, Witness, and Date)					
TYPE		CULVERT TYPE	MATERIAL	Road to Bed	INLET/OUTLET TYPE
Bridge Span Bridge Pier Shape Culvert Dam Spillway Riser Barrel Outlet		Number of Barrels 2 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 Timber Ductile Clay Masonry Rock <i>concrete</i>	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

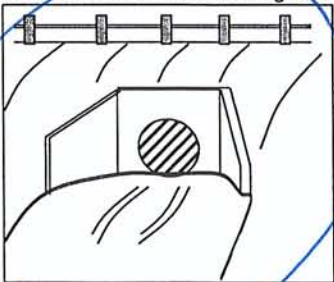


Types (Shape) of Culvert

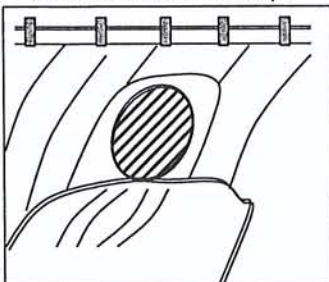
- | | | |
|---|---|---|
|  |  |  |
| 1) Circular | 2) Rectangle | 3) Elliptical |
|  |  |  |
| 4) Con/Span | 5) Elevated Arch | 6) Pipe Arch |
| 7) Other | | |

Inlet/Outlet Type

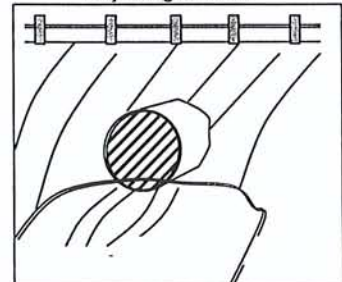
Culvert with Headwall & Wingwalls



Mitered to Conform to Slope



Projecting from Fill

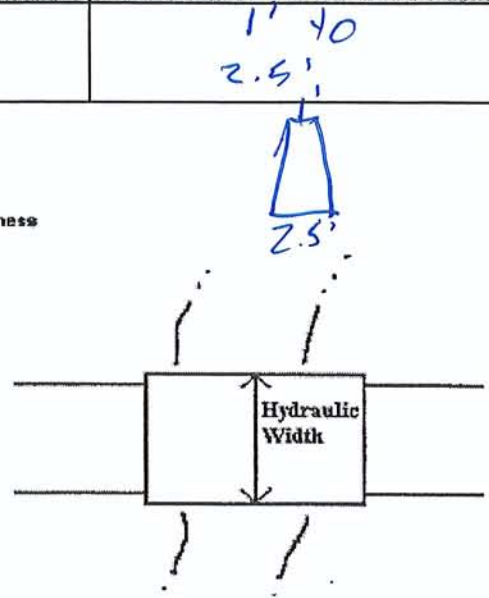
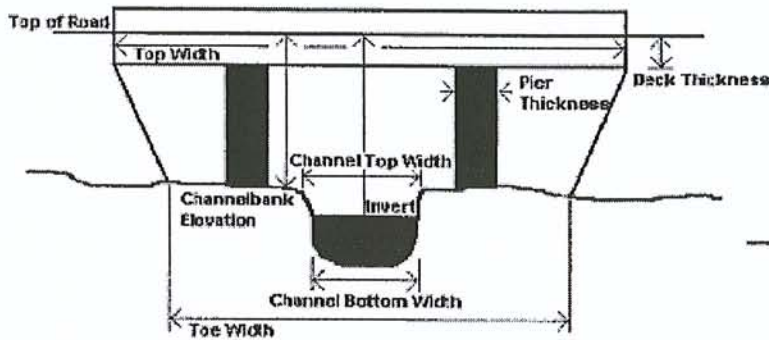


CHANNEL INFORMATION

ROAD TO BANK	CHANNEL TOP WIDTH	CHANNEL BOTTOM WIDTH

BRIDGE INFORMATION

DECK THICKNESS	TOP WIDTH	TOE WIDTH
HYDRAULIC WIDTH	NUMBER OF PIERS	PIER THICKNESS
	1	1' 40 2.5'



PHOTOS

Name

Description

Name	Description	PHOTOS

ADDITIONAL CHANNEL INFORMATION

Agriculture on right overbank + left overbank.

Land Use

dense vegetation, willow, arundo + eucalyptus - u/s end is not as densely vegetated as d/s end in channel

Vegetative Cover

gravel channel bottom under bridge
gravel + cobble material u/s of bridge
~ 3" d₅₀

Bed Material

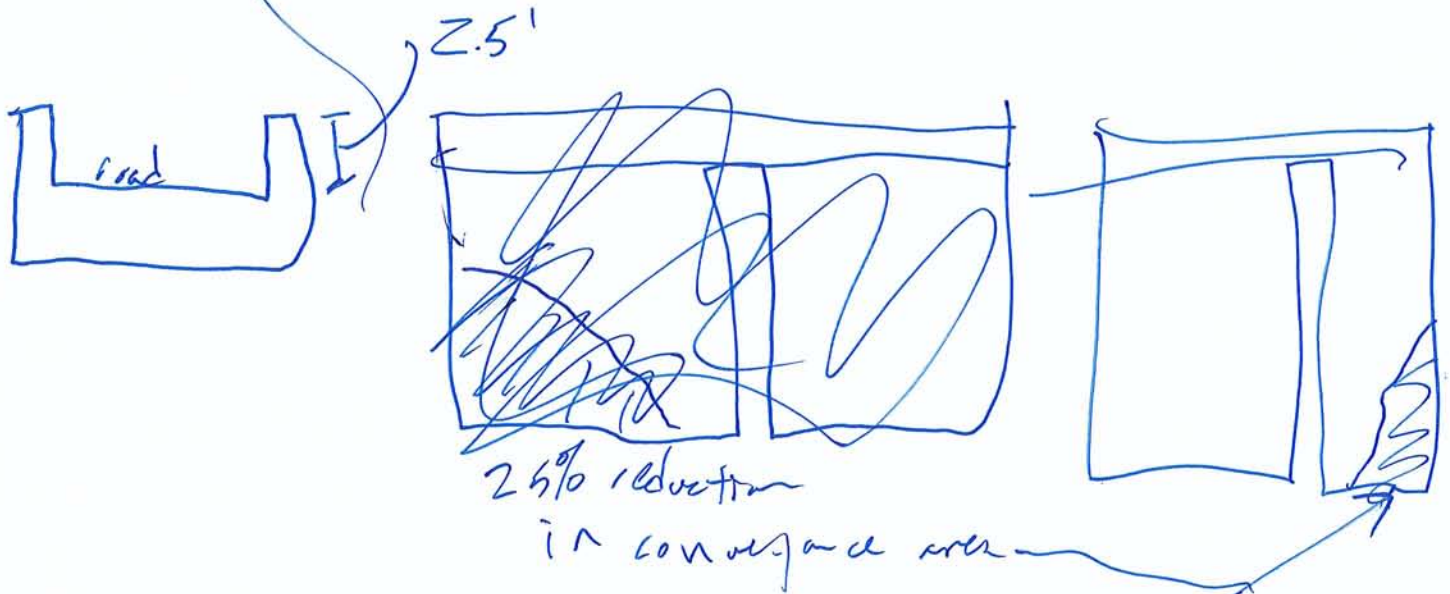
Overgrown vegetation - significant soil accumulation in right ~~bank~~ barrel blocking flow @ u/s end

General Channel Condition

Banks

Arundo on right overbank d/s, less soil
Arundo on right overbank @ u/s end.
a few houses on left overbank @ u/s end.

Overbanks




STRUCTURE SURVEY TEMPLATE


				DATE	11/14/07
ROAD NAME		Foothills Rd		COUNTY	Ventura
STREAM NAME		Elis north Barrance		PHOTO ID #	
STRUCTURE #		EB 3		X,Y COORDINATE	
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)		significant debris accumulation @ 1/3 end of pier, left barrel filled ~4' w/ sand.			
HIGH WATER MARK (Description, Witness, and Date)					
TYPE		CULVERT TYPE	MATERIAL	Road to Bed	INLET/OUTLET TYPE
Bridge		Number of Barrels	RCP (Reinforced Concrete Pipe)	Height from Top of Road to Invert	Headwall
Span Bridge			CMP (Corrugated Metal Pipe)	Top of Road EL	Wingwalls Type 0°, 45°, 90°
Pier Shape		1) Circular	Bitmus Coated	From Topo Map (FT.NGVD) or (FT.NAVD)	Projecting
Culvert		2) Rectangle (Span X Rise)	Steel		Flush with Slope
Dam		3) Elliptical	Timber		MES (Mitered End Section)
Spillway		4) Con/Span	Ductile		FES (Flared End Section)
Riser Barrel		5) Elevated Arch	Clay		
Outlet		6) Pipe Arch	Masonry Rock		
		7) Other			

Pier Shape


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




Types (Shape) of Culvert




1) Circular




4) Con/Span




2) Rectangle



5) Elevated Arch



3) Elliptical

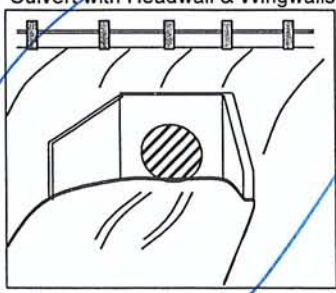


6) Pipe Arch

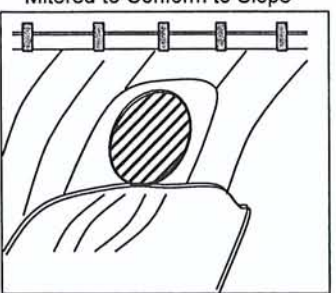
7) Other

Inlet/Outlet Type

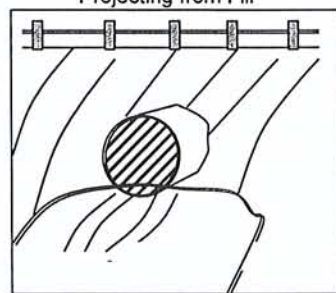
Culvert with Headwall & Wingwalls



Mitered to Conform to Slope



Projecting from Fill

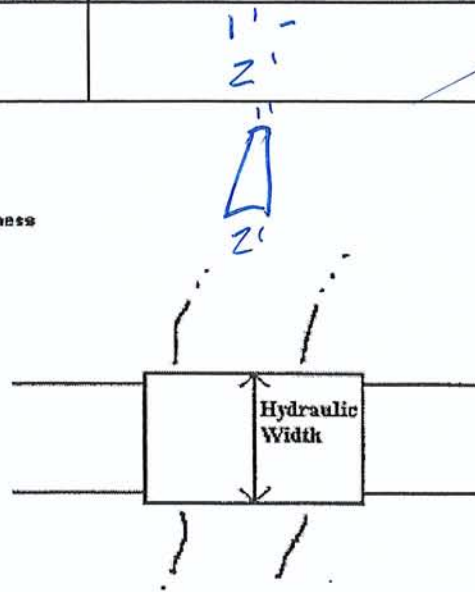
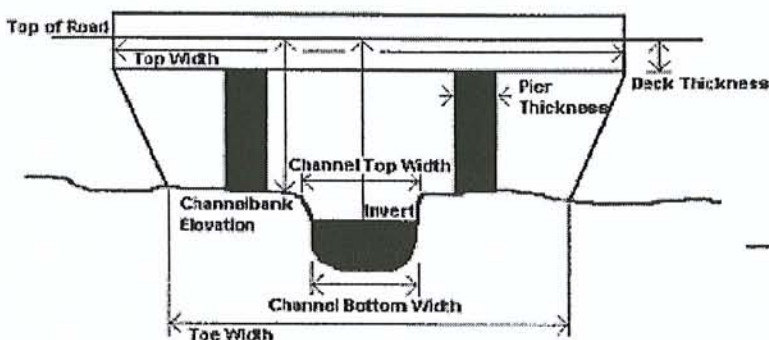


CHANNEL INFORMATION

ROAD TO BANK	CHANNEL TOP WIDTH	CHANNEL BOTTOM WIDTH

BRIDGE INFORMATION

DECK THICKNESS	TOP WIDTH	TOE WIDTH
HYDRAULIC WIDTH	NUMBER OF PIERS	PIER THICKNESS
	1	2'



Name	Description	PHOTOS
	<p>30'</p> <p>12'</p> <p>30'</p> <p>8'</p> <p>6 1/2'</p> <p>33"</p> <p>Filled w/ sand</p> <p>pier</p>	<p>The 'PHOTOS' column contains two hand-drawn diagrams. The first is a plan view of a rectangular pier with a width of 30' and a length of 12'. A smaller rectangular area within the pier is 8' wide and 6 1/2' high, and is labeled 'Filled w/ sand'. The second diagram is a cross-section of a structure with a top width of 33" and a height of 6 1/2'.</p>

ADDITIONAL CHANNEL INFORMATION

Agriculture

Land Use

shrub + brush material - looks like vegetation was cleared recently + this is regrowth.

Vegetative Cover

sandy cobble + rock

Bed Material

Bed ~~is~~ d/s of bridge, right abutment appears to block some flow - the river may have shifted here

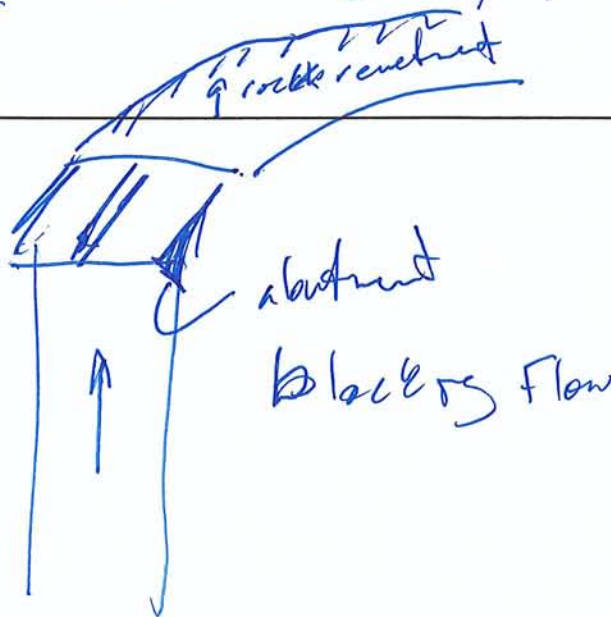
General Channel Condition

grouted rock revetment along left bank d/s of bridge through the bend.

Banks

right bank is vertical - 30yds u/s of bridge - sandy erodible material - right bank d/s of bridge is severely eroded 50 yds left overbank d/s of bridge may provide some detention

Overbanks



STRUCTURE SURVEY TEMPLATE







				DATE	11/14/07
ROAD NAME		Aliso Canyon		COUNTY	Ventura
STREAM NAME		Ellsworth Barranca.		PHOTO ID #	
STRUCTURE #		EB6		X, Y COORDINATE	
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)					
TYPE		CULVERT TYPE	MATERIAL	Road to Bed	INLET/OUTLET TYPE
Bridge <u>Span Bridge</u> Pier Shape		Number of Barrels	RCP (Reinforced Concrete Pipe) CMP (Corrugated Metal Pipe) Bitmus Coated	Height from Top of Road to Invert	Headwall Wingwalls Type 0°, 45°, 90° Projecting Flush with Slope
Culvert		<u>2) Rectangle (Span X Rise)</u>	Steel	<u>Top of Road EL</u>	MES (Mitered End Section) FES (Flared End Section)
Dam		3) Elliptical	Timber	From Topo Map (FT.NGVD) or (FT.NAVD)	
Spillway		4) Con/Span	Ductile		
Riser Barrel		5) Elevated Arch	Clay		
Outlet		6) Pipe Arch	Masonry Rock		
		7) Other	<i>concrete</i>		

Pier Shape

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

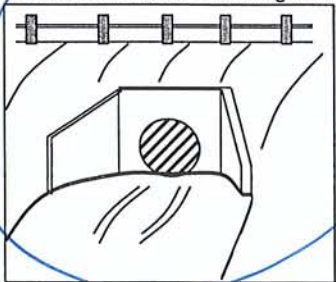


Types (Shape) of Culvert

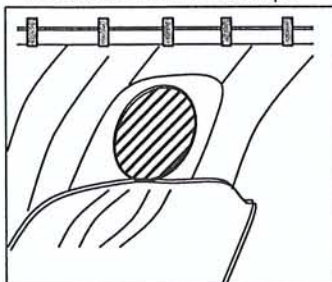
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|---|---|---|
|  |  |  |
| 1) Circular | 2) Rectangle | 3) Elliptical |
|  |  |  |
| 4) Con/Span | 5) Elevated Arch | 6) Pipe Arch |
| 7) Other | | |

Inlet/Outlet Type

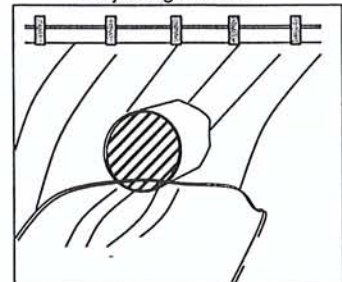
Culvert with Headwall & Wingwalls



Mitered to Conform to Slope



Projecting from Fill

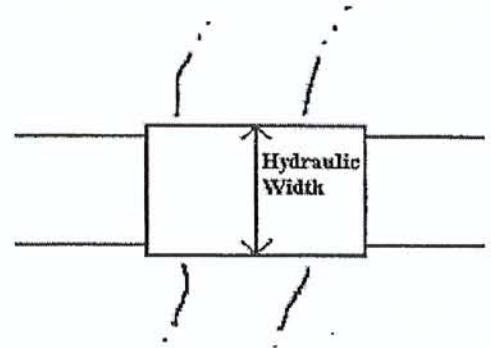
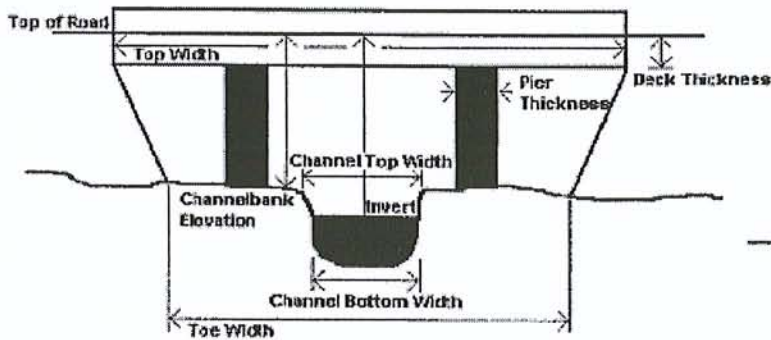


CHANNEL INFORMATION

ROAD TO BANK	CHANNEL TOP WIDTH	CHANNEL BOTTOM WIDTH

BRIDGE INFORMATION

DECK THICKNESS	TOP WIDTH	TOE WIDTH
3' -		
HYDRAULIC WIDTH	NUMBER OF PIERS	PIER THICKNESS
~ 40'	0	



PHOTOS

Name	Description	PHOTOS

ADDITIONAL CHANNEL INFORMATION

Ag. downstream - ~~right~~

Land Use

dense vegetation v/s primarily willow
- d/s is ag.

Vegetative Cover

cobbles + large rock - upstream near
diverter ~ 1'-2'

Bed Material

overgrown v/s ~~is~~ not as dense d/s (appears
to be more maintained d/s).

General Channel Condition

rt bank v/s of bridge is vertical well supported by
pile + wire, similar to gabion
left bank v/s is grouted riprap for ~ 100'

Banks

ag d/s, right overbank v/s is steep slope - foothills
left overbank v/s is ag w/ some residential

Overbanks