

STRUCTURE SURVEY TEMPLATE







				DATE	10.24.08
ROAD NAME	RR bridge			COUNTY	CA
STREAM NAME	Agua Dulce			PHOTO ID #	
STRUCTURE #	1	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)		New RR King			
HIGH WATER MARK (Description, Witness, and Date)					
TYPE		CULVERT TYPE	MATERIAL	Road to Bed	INLET/OUTLET TYPE
Bridge Span Bridge Pier Shape Culvert Dam Millway Sewer 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) Bitumus Coated Steel Timber Ductile Clay Masonry Rock	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

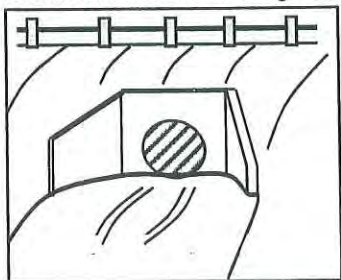


Types (Shape) of Culvert

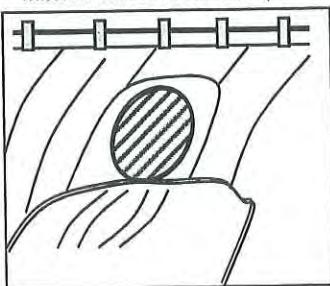
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|---|---|---|
|  |  |  |
| 1) Circular | 2) Rectangle | 3) Elliptical |
|  |  |  |
| 4) Con/Span | 5) Elevated Arch | 6) Pipe Arch |
| 7) Other | | |

Inlet/Outlet Type

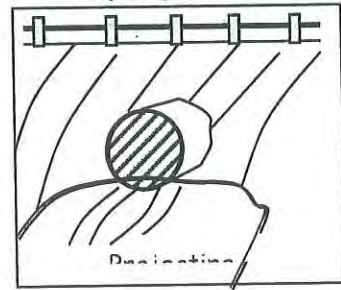
Culvert with Headwall & Wingwalls



Mitered to Conform to Slope



Projecting from Fill

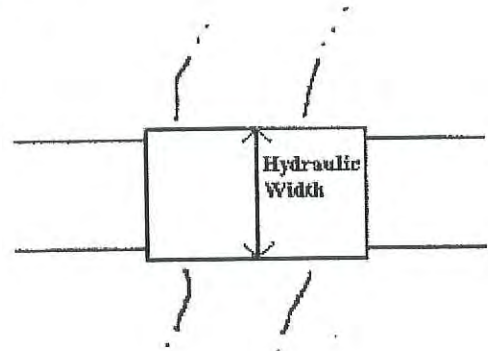
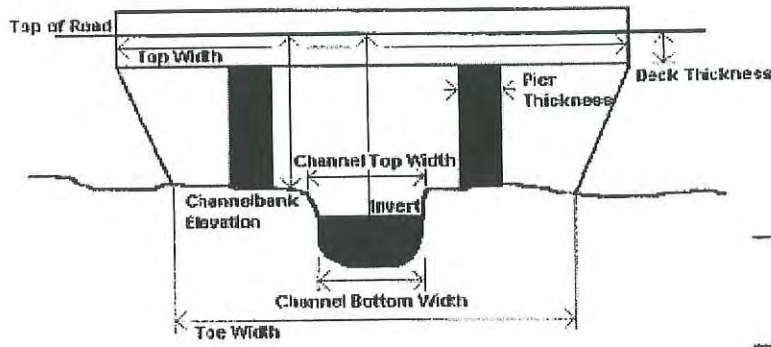


CHANNEL INFORMATION

ROAD TO BANK	CHANNEL TOP WIDTH	CHANNEL BOTTOM WIDTH

BRIDGE INFORMATION

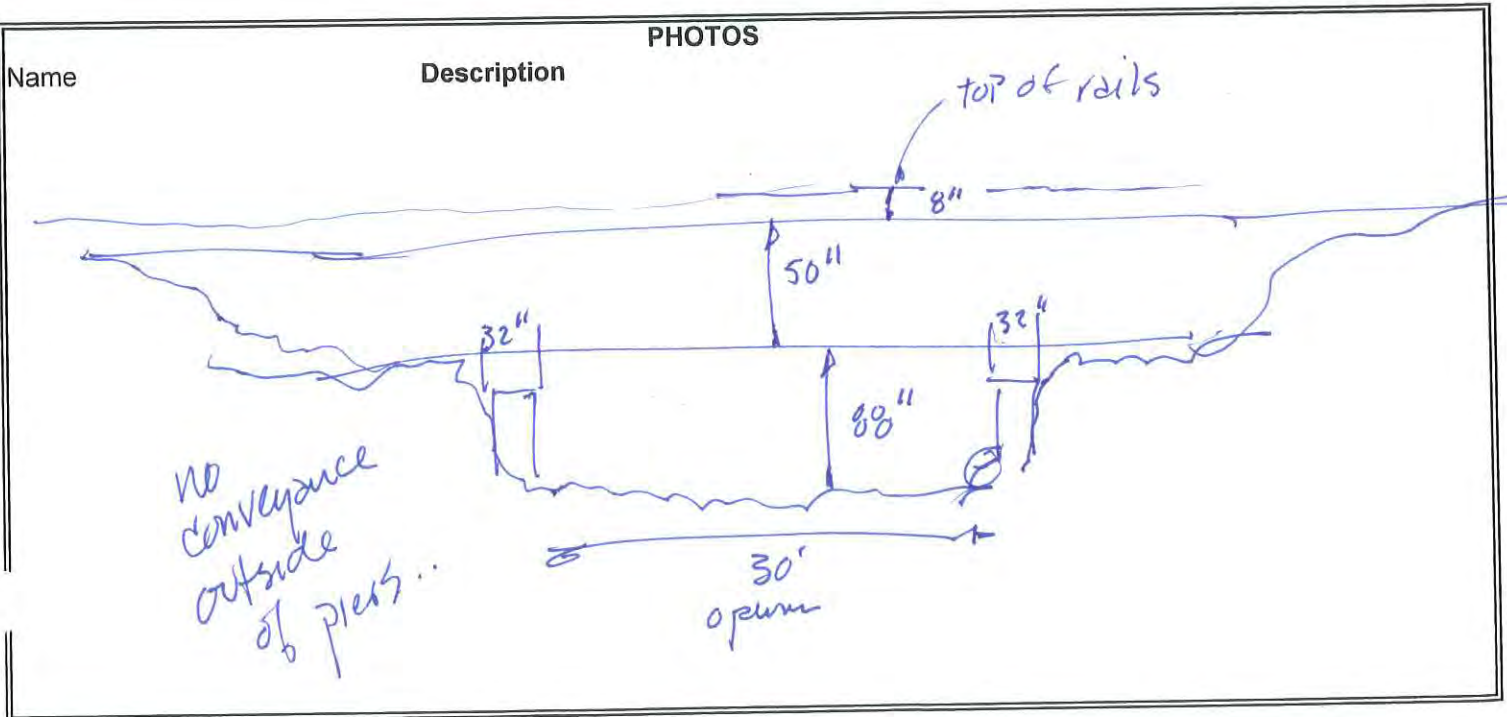
DECK THICKNESS	TOP WIDTH	TOE WIDTH
HYDRAULIC WIDTH	NUMBER OF PIERS	PIER THICKNESS



PHOTOS

Name

Description



ADDITIONAL CHANNEL INFORMATION

open

Land Use

brush

trees @ confluence

Vegetative Cover

sand + gravel . . . some large boulders
O/S

Bed Material

irregular, natural

General Channel Condition

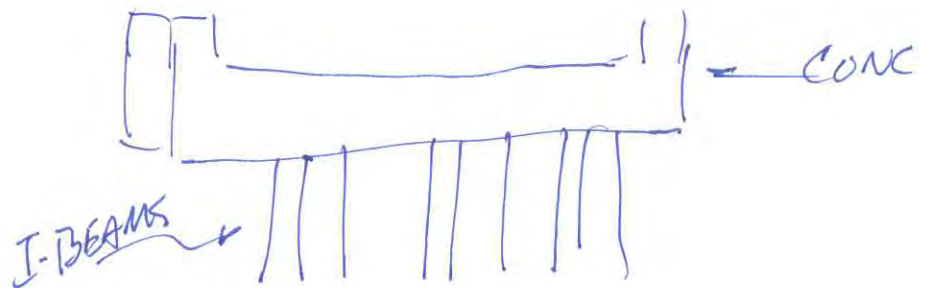
irregular, canyon

Banks

open / canyon

Overbanks

side view of piers



STRUCTURE SURVEY TEMPLATE







				DATE	10-24-08
JAD NAME	Agua Dulce Ckn Rd			COUNTY	CA
STREAM NAME	Agua Dulce			PHOTO ID #	
STRUCTURE #	2	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)		clear span bridge at a skew			
HIGH WATER MARK (Description, Witness, and Date)					
TYPE		CULVERT TYPE	MATERIAL	Road to Bed	INLET/OUTLET TYPE
Bridge Span Bridge Pier Shape Culvert Dam Millway User 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 Timber Ductile Clay Masonry Rock	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

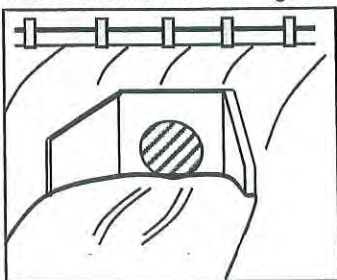


Types (Shape) of Culvert

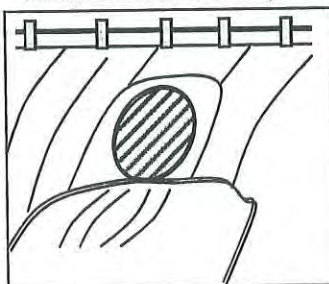
- | | | |
|---|---|---|
|  |  |  |
| 1) Circular | 2) Rectangle | 3) Elliptical |
|  |  |  |
| 4) Con/Span | 5) Elevated Arch | 6) Pipe Arch |
| 7) Other | | |

Inlet/Outlet Type

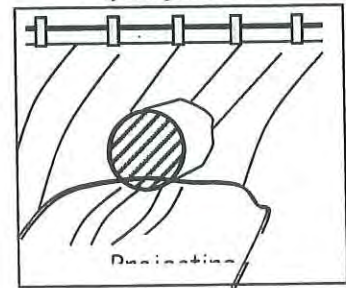
Culvert with Headwall & Wingwalls



Mitered to Conform to Slope



Projecting from Fill

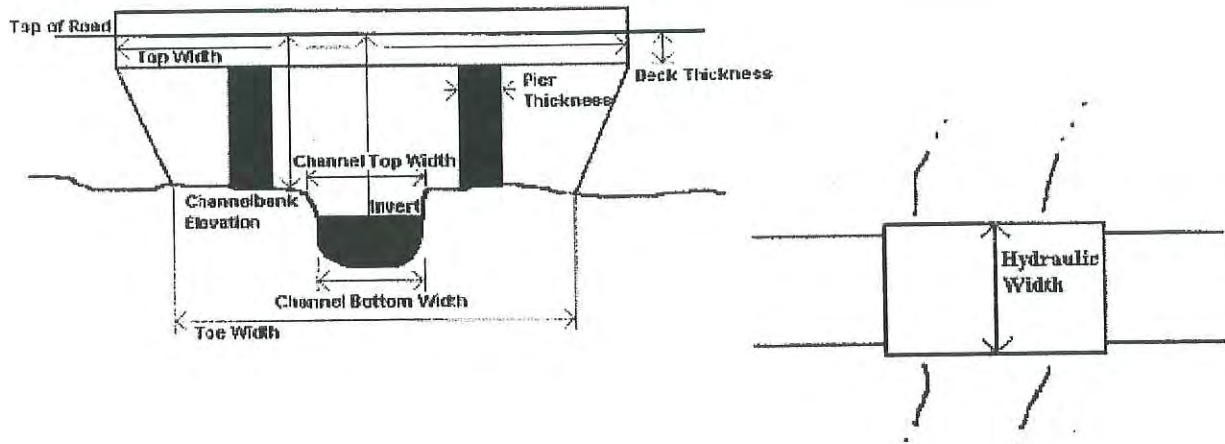


CHANNEL INFORMATION

ROAD TO BANK	CHANNEL TOP WIDTH	CHANNEL BOTTOM WIDTH

BRIDGE INFORMATION

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



PHOTOS	
Name	Description
Looking 4/5	<p>conc deck 24' steel girders 4/5' ± 17.5' ± extended conc abutment 4/5 (prev. bridge)</p>

ADDITIONAL CHANNEL INFORMATION

open - 1 residence

Land Use

trees 4/5 - brushy

Vegetative Cover

cobbles

Bed Material

irregular canyon

General Channel Condition


canyon

Banks

road, canyon

Overbanks

STRUCTURE SURVEY TEMPLATE







				DATE	10-24-09
AD NAME	Hwy 14			COUNTY	CA
STREAM NAME	Agua Dulce			PHOTO ID #	
STRUCTURE #	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)		Wqge Arch...			
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 Wingwalls Type 0°, 45°, 90° Projecting Flush with Slope
Span Bridge			CMP (Corrugated Metal Pipe)		
Pier Shape			Bitmus Coated	Top of Road EL	MES (Mitered End Section) FES (Flared End Section)
Culvert		1) Circular	Steel		
Dam		2) Rectangle (Span X Rise)	Timber	From Topo Map (FT.NGVD) or (FT.NAVD)	
Millway		3) Elliptical	Ductile		
Water Barrel		4) Con/Span	Clay		
Outlet		5) Elevated Arch	Masonry Rock		
		6) Pipe Arch 17'x17'			
		7) Other 			

Pier Shape

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

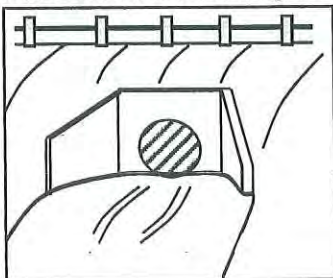


Types (Shape) of Culvert

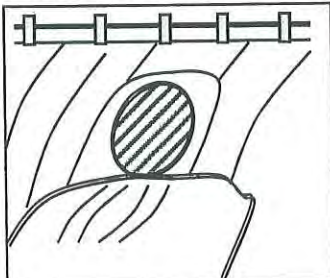
- 1) Circular 
- 2) Rectangle 
- 3) Elliptical 
- 4) Con/Span 
- 5) Elevated Arch 
- 6) Pipe Arch 
- 7) Other

Inlet/Outlet Type

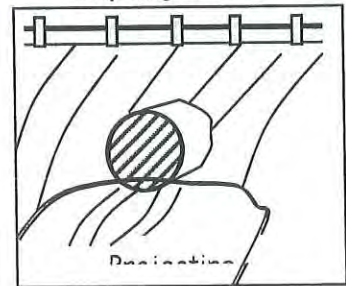
Culvert with Headwall & Wingwalls



Mitered to Conform to Slope



Projecting from Fill

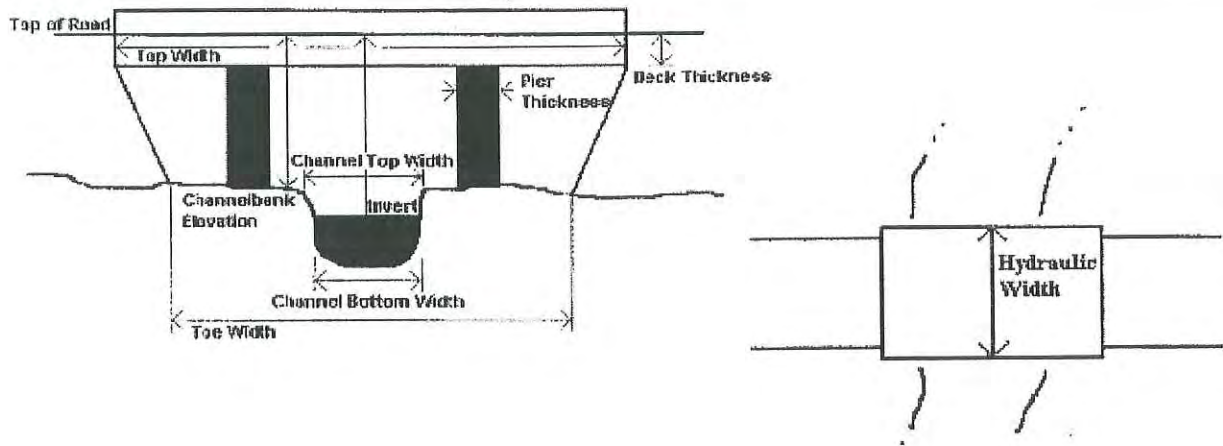


CHANNEL INFORMATION

ROAD TO BANK	CHANNEL TOP WIDTH	CHANNEL BOTTOM WIDTH

BRIDGE INFORMATION

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



PHOTOS

Name	Description
	<p>5'</p> <p>Some cobbles accumulated at 1/2 end</p> <p>drop @ outlet.</p> <p>giant steel debris catcher @ inlet</p>

ADDITIONAL CHANNEL INFORMATION

open - some ranch d/s

Land Use

brush + trees - cottonwood + willow

Vegetative Cover

sand d/s, sand - cobbles u/s

Bed Material

irregular, brushy, more-so d/s

General Channel Condition

Canyon - almost barren banks u/s

Banks

Canyon -

Overbanks

STRUCTURE SURVEY TEMPLATE

					DATE	10-24-09
ROAD NAME	Agua Dulce Cyn Rd				COUNTY	LA
STREAM NAME	Agua Dulce				PHOTO ID #	
STRUCTURE #	4		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)		dbl 42" x 28" CMP				
HIGH WATER MARK (Description, Witness, and Date)						
TYPE		CULVERT TYPE	MATERIAL	Road to Bed	INLET/OUTLET TYPE	
Bridge Span Bridge Pier Shape <u>Culvert</u> Dam Millway Sinker Barrel Outlet		Number of Barrels	RCP (Reinforced Concrete Pipe) CMP (Corrugated Metal Pipe) Bitumus Coated	Height from Top of Road to Invert	Headwall Wingwalls Type 0°, 45°, 90° Projecting Flush with Slope	
		1) Circular 2) Rectangle (Span X Rise) <u>3) Elliptical 42" x 28"</u> 4) Con/Span 5) Elevated Arch 6) Pipe Arch 7) Other	Steel Timber Ductile Clay Masonry Rock	Top of Road EL	MES (Mitered End Section) FES (Flared End Section)	
				From Topo Map (FT.NGVD) or (FT.NAVD)		

Pier Shape

- 1) Circular pier
- 2) Twin-Cylinder piers
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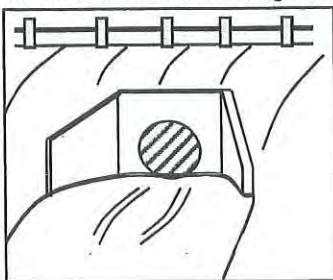


Types (Shape) of Culvert

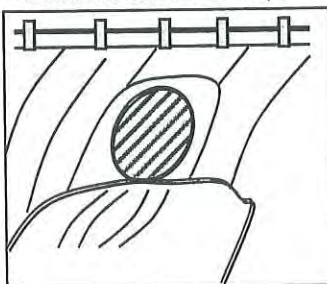
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|-------------|------------------|----------------------|
| | | |
| 1) Circular | 2) Rectangle | <u>3) Elliptical</u> |
| | | |
| 4) Con/Span | 5) Elevated Arch | 6) Pipe Arch |
| 7) Other | | |

Inlet/Outlet Type

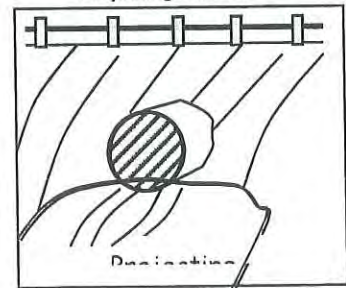
Culvert with Headwall & Wingwalls



Mitered to Conform to Slope



Projecting from Fill

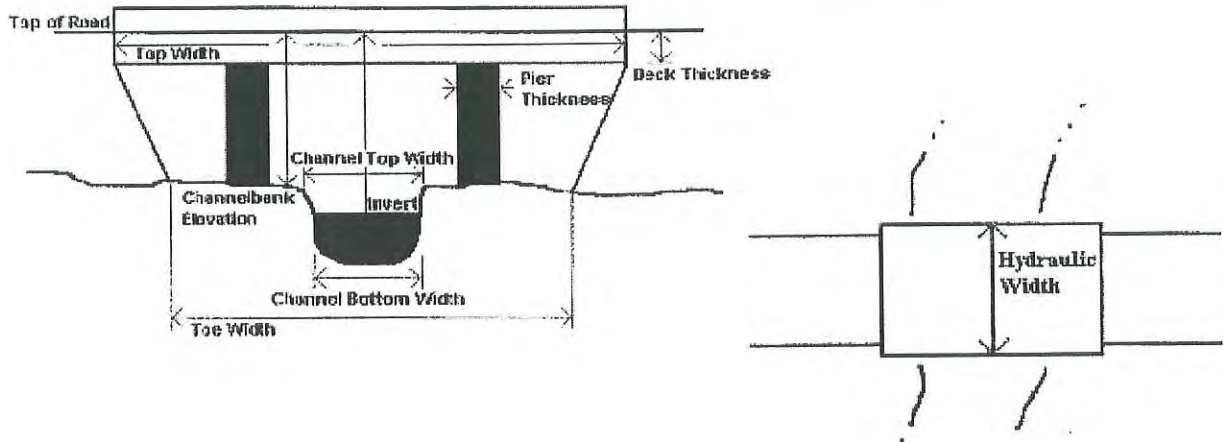


CHANNEL INFORMATION

ROAD TO BANK	CHANNEL TOP WIDTH	CHANNEL BOTTOM WIDTH

BRIDGE INFORMATION

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



Name	Description	PHOTOS
Crosses at skew 1/2 end	1'	<p>concrete slab @ outlet</p> <p>ALVA POLICE CYN RP</p>

ADDITIONAL CHANNEL INFORMATION

Land Use

open / canyon

Vegetative Cover

light
brush

Bed Material

sand - cobbles

General Channel Condition

Canyon - irregular

Banks

Canyon

Overbanks

Canyon

note: large flows likely
overtop road.

d/s road slope has concrete
protection.