

STRUCTURE SURVEY TEMPLATE







				DATE	3/6/08
ROAD NAME			COUNTY		
STREAM NAME			PHOTO ID #		
STRUCTURE #		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)			outfall @ SCR. w/ dip crossing		
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 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 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

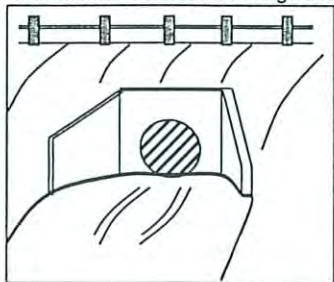


Types (Shape) of Culvert

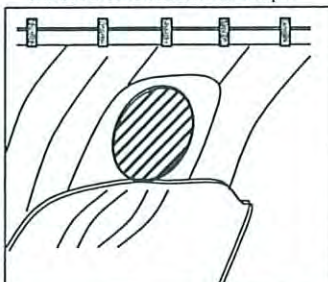
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|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|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

Inlet/Outlet Type

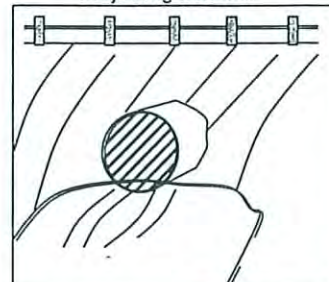
Culvert with Headwall & Wingwalls



Mitered to Conform to Slope



Projecting from Fill

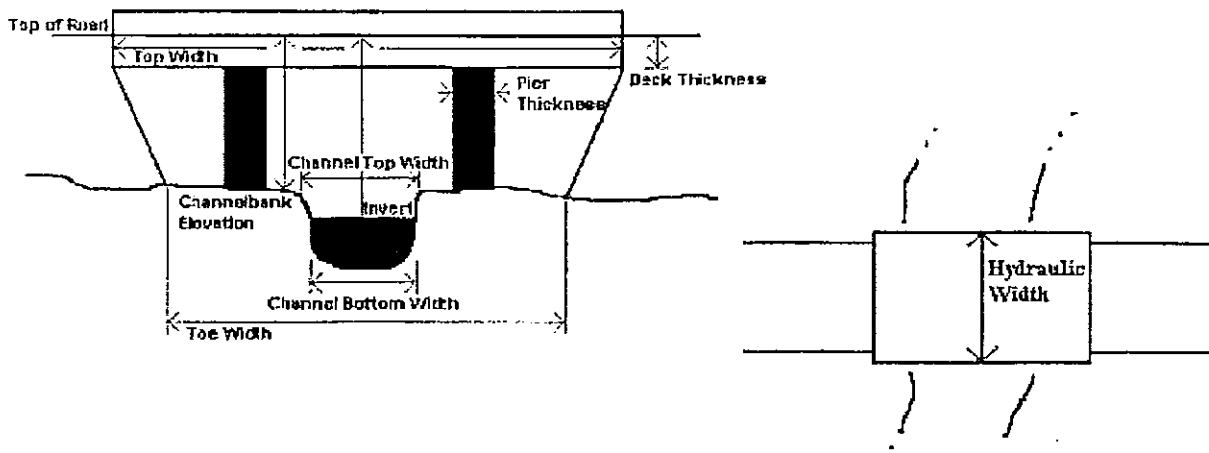


CHANNEL INFORMATION

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
235	d/s confluence w/ SCIR looking d/s
236	d/s confluence w/ SCIR looking u/s

ADDITIONAL CHANNEL INFORMATION

Ranch/cattle feed on right, Ag on left

Land Use

not much vegetation along banks, some small shrubs @ confluence of side

Vegetative Cover

silt, sand + gravel

Bed Material

improved trapezoidal earthen channel

General Channel Condition

and y eroded water


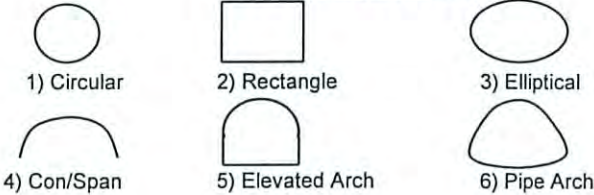
Banks

Overbanks

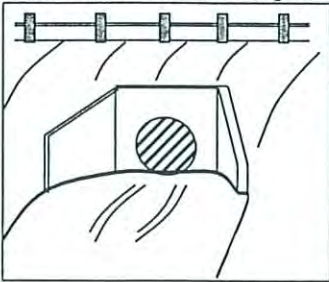
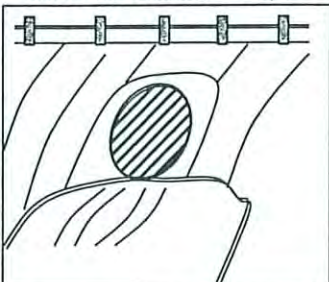
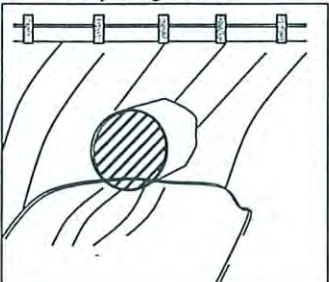
STRUCTURE SURVEY TEMPLATE

ROAD NAME <u>Howe Rd</u>				DATE <u>3/6/08</u>	
STREAM NAME <u>Reed Canyon</u>				COUNTY	
STRUCTURE # <u>RC2</u>			X,Y COORDINATE		
TYPE	LENGTH	SIZE (W X H) & SHAPE	MATERIAL	Road to Bed	INLET/OUTLET TYPE
Railroad Bridge		16' x 6'		Top of Road EL	
SPECIAL NOTE (Conditions, Blockage, etc)		<u>concrete rectangular channel ups + downs of crossing</u>			
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 <u>2) Rectangle (Span X Rise)</u> 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 <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	
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Inlet/Outlet Type

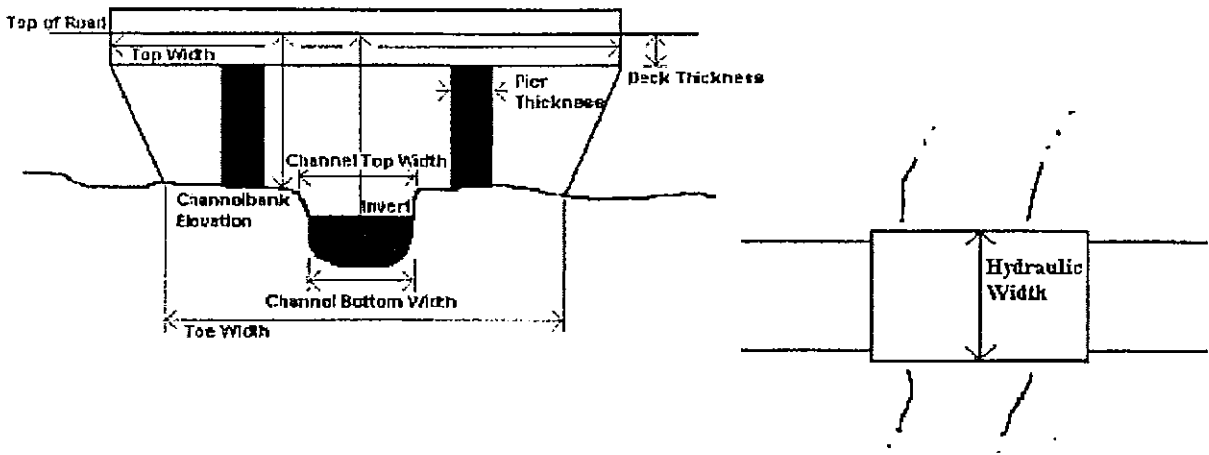
Culvert with Headwall & Wingwalls 	Mitered to Conform to Slope 	Projecting from Fill 
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CHANNEL INFORMATION

ROAD TO BANK	CHANNEL TOP WIDTH	CHANNEL BOTTOM WIDTH

BRIDGE INFORMATION

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



PHOTOS

Name	Description
237	d/s of crossing @ beginning of concrete ch. looking d/s.
238	d/s of crossing looking d/s
239	d/s of channel looking d/s

ADDITIONAL CHANNEL INFORMATION

Land Use

Vegetative Cover

sand, silt, + gravel in bottom of channel.

Bed Material

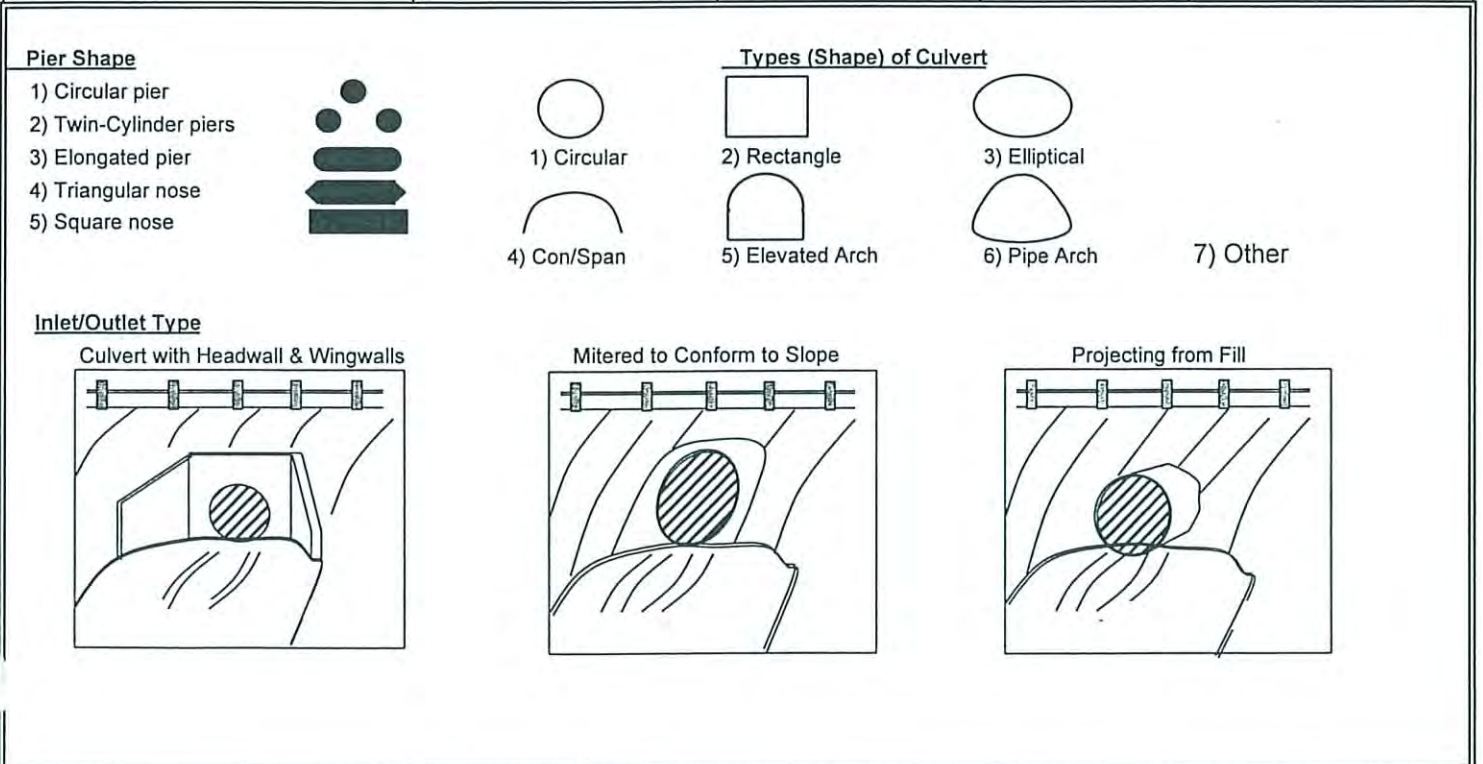
General Channel Condition

Banks

Overbanks

STRUCTURE SURVEY TEMPLATE

					DATE	3/6/08
ROAD NAME			Hwy 126		COUNTY	
STREAM NAME			Reel Canyon		PHOTO ID #	
STRUCTURE #			263		X,Y COORDINATE	
TYPE		LENGTH	SIZE (W X H) & SHAPE	MATERIAL	Road to Bed	INLET/OUTLET TYPE
Railroad Bridge			14' x 6'		Top of Road EL	
SPECIAL NOTE (Conditions, Blockage, etc)			rectangular concrete channel			
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 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)

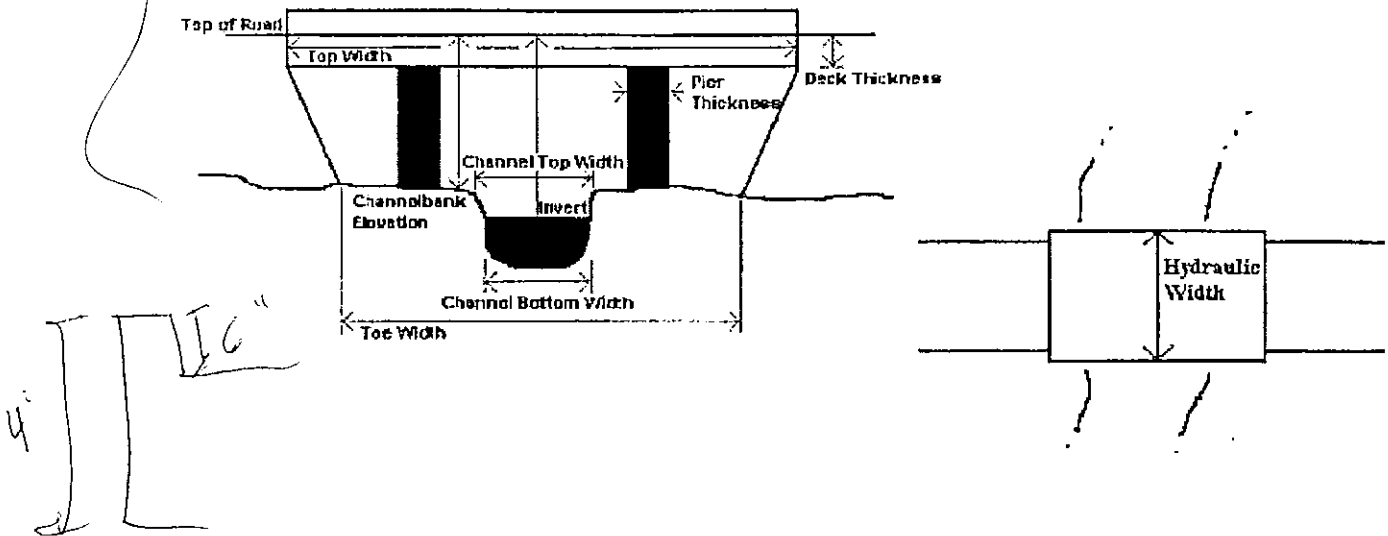


CHANNEL INFORMATION

ROAD TO BANK	CHANNEL TOP WIDTH	CHANNEL BOTTOM WIDTH

BRIDGE INFORMATION

DECK THICKNESS	TOP WIDTH	TOE WIDTH
16" d/s side 4" v/s side		
HYDRAULIC WIDTH	NUMBER OF PIERS	PIER THICKNESS



		PHOTOS
Name	Description	
240	d/s side of bridge, looking v/s	
241	v/s side of bridge looking d/s	

ADDITIONAL CHANNEL INFORMATION

Az

Land Use

Vegetative Cover

Bed Material

concrete rectangular channel

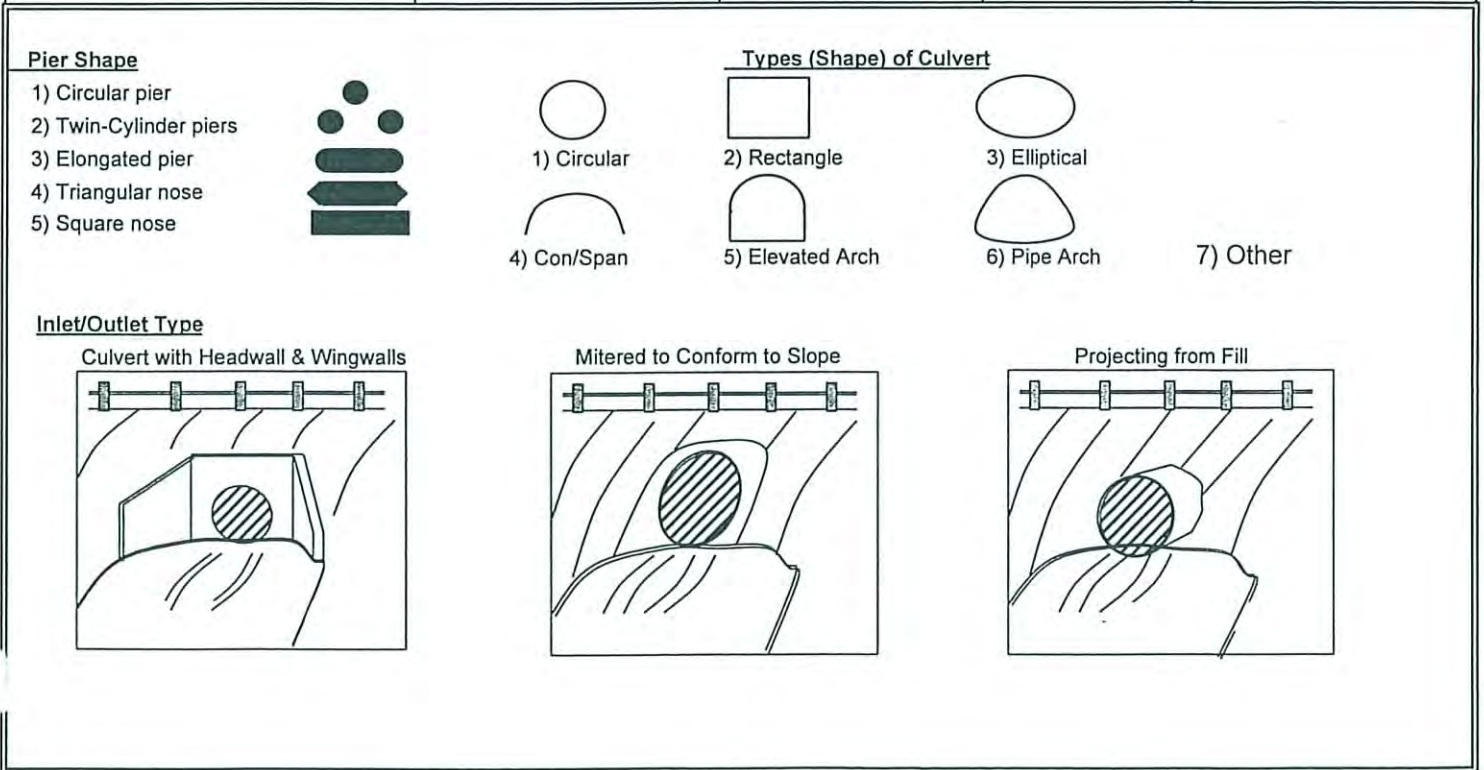
General Channel Condition

Banks

Overbanks

STRUCTURE SURVEY TEMPLATE

					DATE	3/6/08
ROAD NAME		1/5 of 126 culvert			COUNTY	
STREAM NAME		Reel Canyon			PHOTO ID #	
STRUCTURE #		RC4			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)		concrete slab over channel				
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 1) Circular 2) <u>Rectangle (Span X Rise)</u> 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)	

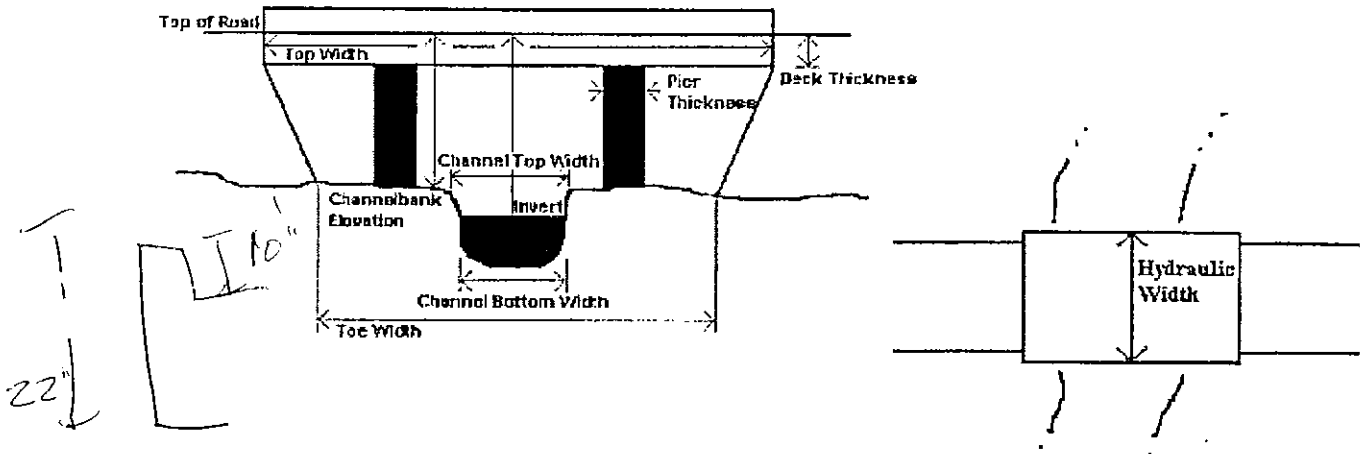


CHANNEL INFORMATION

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
242	d/s side of crossing, looking v/s

ADDITIONAL CHANNEL INFORMATION

Land Use

Vegetative Cover

Bed Material

rectangular concrete channel.

General Channel Condition

Banks


Overbanks

STRUCTURE SURVEY TEMPLATE


				DATE	3/6/08
ROAD NAME				COUNTY	
STREAM NAME		Real Canyon		PHOTO ID #	
STRUCTURE #		RCS		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)		concrete slab			
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 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 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




4) Con/Span




2) Rectangle



5) Elevated Arch



3) Elliptical

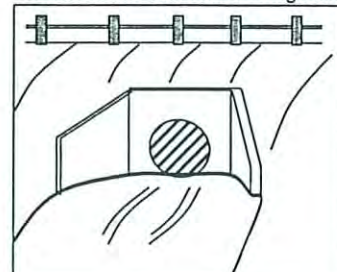


6) Pipe Arch

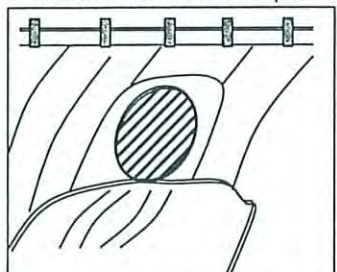
7) Other

Inlet/Outlet Type

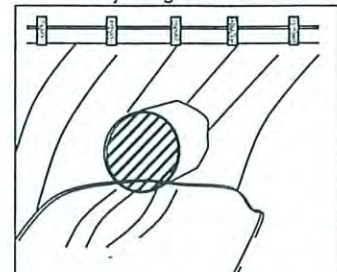
Culvert with Headwall & Wingwalls



Mitered to Conform to Slope



Projecting from Fill

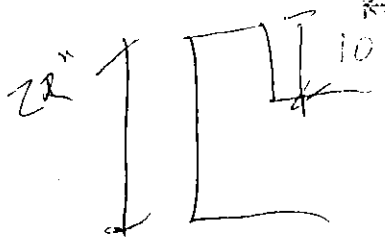
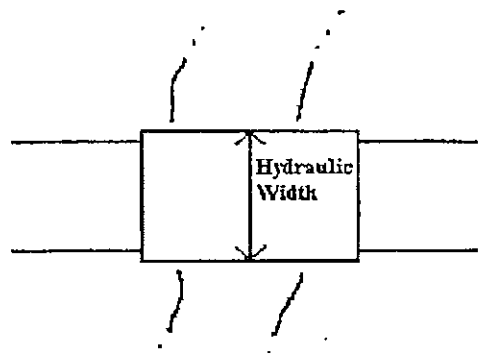
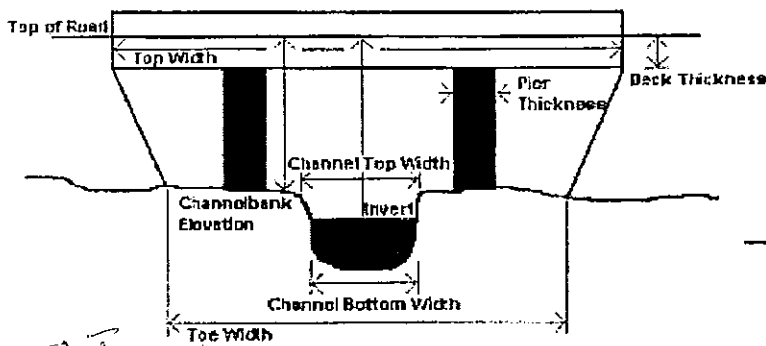


CHANNEL INFORMATION

ROAD TO BANK	CHANNEL TOP WIDTH	CHANNEL BOTTOM WIDTH

BRIDGE INFORMATION

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



PHOTOS

Name

Description

243

d/s of crease, looking up

ADDITIONAL CHANNEL INFORMATION

Industrial @ left bank.

Land Use

Vegetative Cover

Bed Material

Rectangular concrete channel

General Channel Condition

Banks

Overbanks

STRUCTURE SURVEY TEMPLATE







					DATE	3/6/08
ROAD NAME					COUNTY	
STREAM NAME					PHOTO ID #	
STRUCTURE #			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)		concrete slab.				
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 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

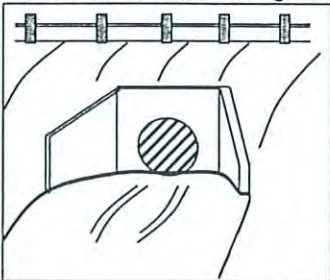


Types (Shape) of Culvert

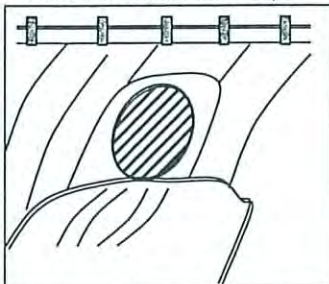
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|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|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

Inlet/Outlet Type

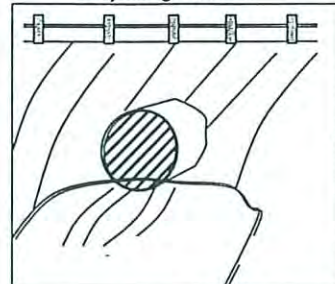
Culvert with Headwall & Wingwalls



Mitered to Conform to Slope



Projecting from Fill

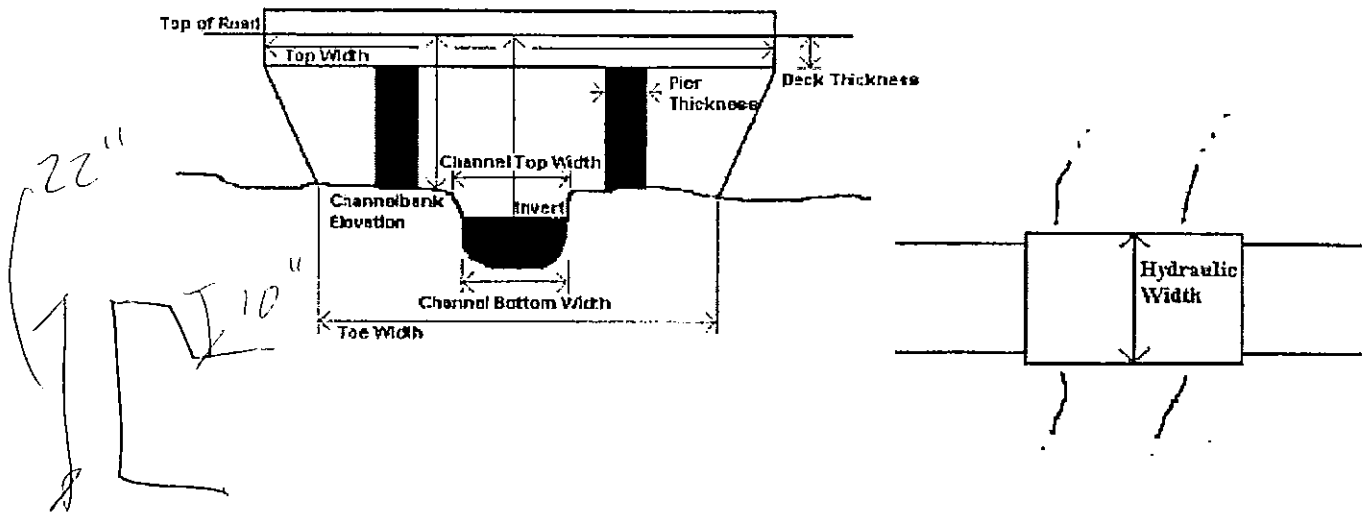


CHANNEL INFORMATION

ROAD TO BANK	CHANNEL TOP WIDTH	CHANNEL BOTTOM WIDTH

BRIDGE INFORMATION

DECK THICKNESS	TOP WIDTH	TOE WIDTH
22"		
HYDRAULIC WIDTH	NUMBER OF PIERS	PIER THICKNESS



PHOTOS

Name	Description
249	d/s side of slab looking u/s

ADDITIONAL CHANNEL INFORMATION

Land Use

Vegetative Cover

Bed Material

rectangular concrete channel.

General Channel Condition

Banks

Overbanks

STRUCTURE SURVEY TEMPLATE







				DATE	3/6/08
ROAD NAME		Pacific		COUNTY	
STREAM NAME		Red Canyon		PHOTO ID #	
STRUCTURE #		RC7		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)		road crossing			
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 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

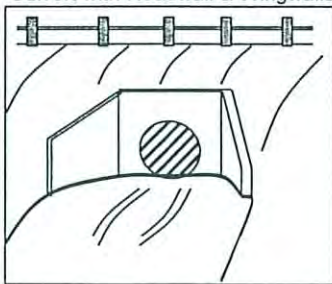


Types (Shape) of Culvert

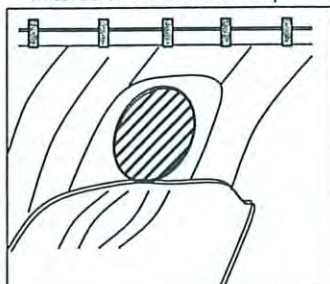
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|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|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

Inlet/Outlet Type

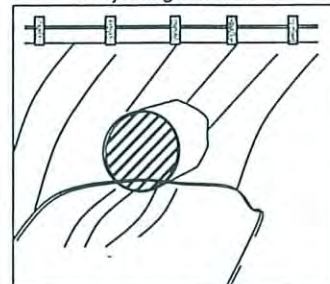
Culvert with Headwall & Wingwalls



Mitered to Conform to Slope



Projecting from Fill

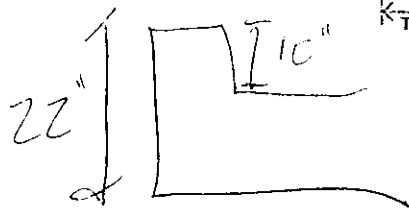
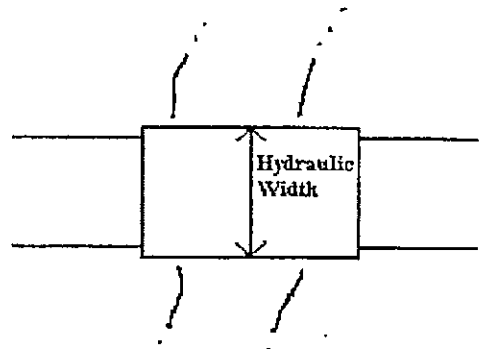
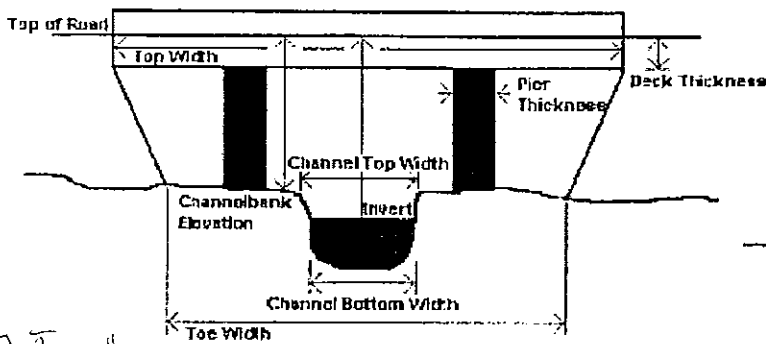


CHANNEL INFORMATION

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
243	d/s side of crossing looking u/s

ADDITIONAL CHANNEL INFORMATION

Land Use

Vegetative Cover

Bed Material

concrete rectangular channel w/ slab
crossing
not much sediment

General Channel Condition

Banks

Overbanks

STRUCTURE SURVEY TEMPLATE







					DATE	3/6/08
ROAD NAME			Railroad		COUNTY	
STREAM NAME			Real Canyon		PHOTO ID #	
STRUCTURE #			RC 8. west		X,Y COORDINATE	
TYPE		LENGTH	SIZE (W X H) & SHAPE	MATERIAL	Road to Bed	INLET/OUTLET TYPE
Railroad Bridge			7' x 4'		Top of Road EL	
SPECIAL NOTE (Conditions, Blockage, etc)			Real canyon channel splits d/s of the railroad - this is the west branch.			
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 Relays 1 for west 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) Bitum 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

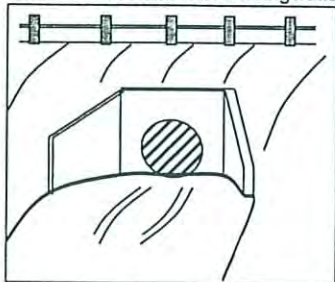


Types (Shape) of Culvert

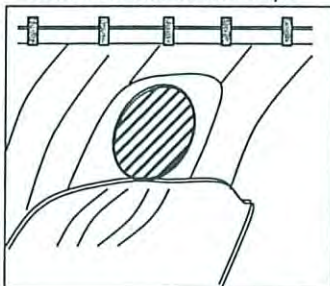
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|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|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

Inlet/Outlet Type

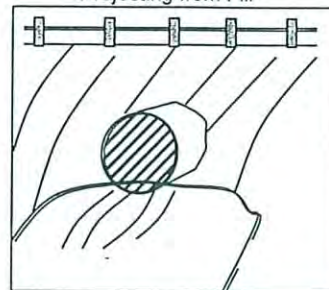
Culvert with Headwall & Wingwalls



Mitered to Conform to Slope



Projecting from Fill

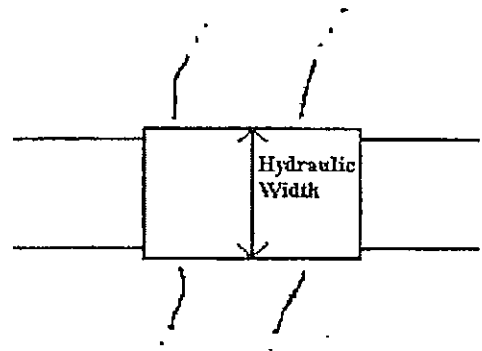
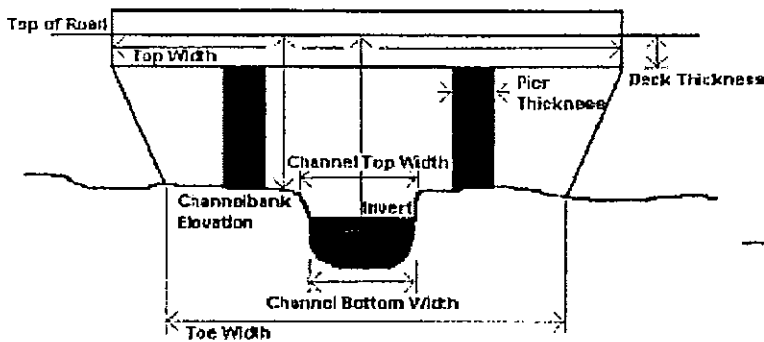


CHANNEL INFORMATION

ROAD TO BANK	CHANNEL TOP WIDTH	CHANNEL BOTTOM WIDTH

BRIDGE INFORMATION

DECK THICKNESS	TOP WIDTH	TOE WIDTH
5'		
HYDRAULIC WIDTH	NUMBER OF PIERS	PIER THICKNESS



PHOTOS

Name	Description	PHOTOS
246	d/s of RR looking w/s	
247	w/s of RR looking d/s	
248	w/s of RR looking w/s	

ADDITIONAL CHANNEL INFORMATION

Land Use

Vegetative Cover

sand & gravel

Bed Material

concrete rectangular channel d/s
earthen trapezoidal channel u/s

General Channel Condition

erosion, sandy material u/s - grouted rock
toe u/s on left & right bank.

Banks

Overbanks

STRUCTURE SURVEY TEMPLATE

					DATE	3/6/08
ROAD NAME				COUNTY		
STREAM NAME				PHOTO ID #		
STRUCTURE #		X,Y COORDINATE				
TYPE	LENGTH	SIZE (W X H) & SHAPE	MATERIAL	Road to Bed	INLET/OUTLET TYPE	
Railroad Bridge		8' x 4.5' v/s 8' x 4.0' d/s		Top of Road: EL		
SPECIAL NOTE (Conditions, Blockage, etc)		steep entrance to v/s side of culvert. - concrete baffles				
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			Bitmus Coated	From Topo Map (FT.NGVD) or (FT.NAVD)	Projecting	
Culvert		1) Circular	Steel		Flush with Slope	
Dam		2) Rectangle (Span X Rise)	Timber		MES (Mitered End Section)	
Spillway		3) Elliptical	Ductile		FES (Flared End Section)	
Riser Barrel		4) Con/Span	Clay			
Outlet		5) Elevated Arch	Masonry Rock			
		6) Pipe Arch				
		7) Other				

Pier Shape

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

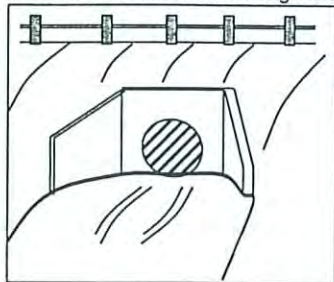


Types (Shape) of Culvert

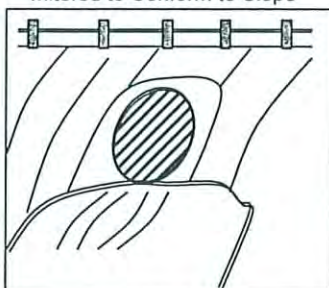
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|-------------|------------------|---------------|
| 1) Circular | 2) Rectangle | 3) Elliptical |
| 4) Con/Span | 5) Elevated Arch | 6) Pipe Arch |
| 7) Other | | |

Inlet/Outlet Type

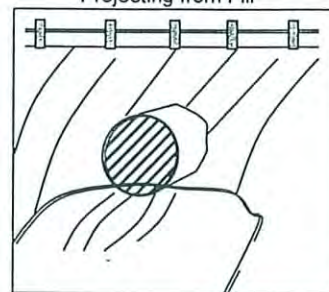
Culvert with Headwall & Wingwalls



Mitered to Conform to Slope



Projecting from Fill

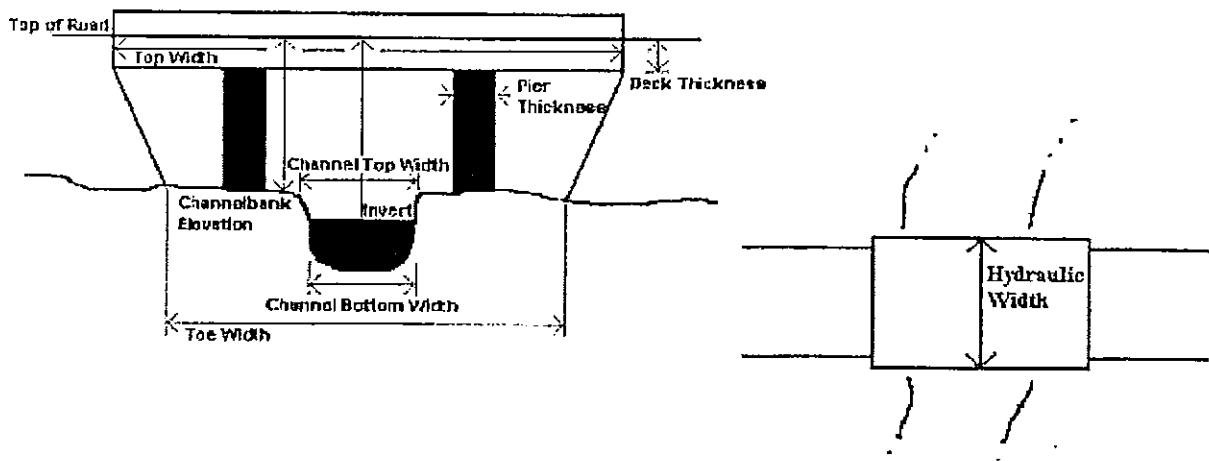


CHANNEL INFORMATION

ROAD TO BANK	CHANNEL TOP WIDTH	CHANNEL BOTTOM WIDTH

BRIDGE INFORMATION

DECK THICKNESS	TOP WIDTH	TOE WIDTH
1.5' d/s 1.0' u/s		
HYDRAULIC WIDTH	NUMBER OF PIERS	PIER THICKNESS



PHOTOS

Name	Description
249	d/s of culvert looking u/s
250	u/s of culvert looking d/s
251	u/s of culvert looking u/s.

ADDITIONAL CHANNEL INFORMATION

Land Use

Vegetative Cover

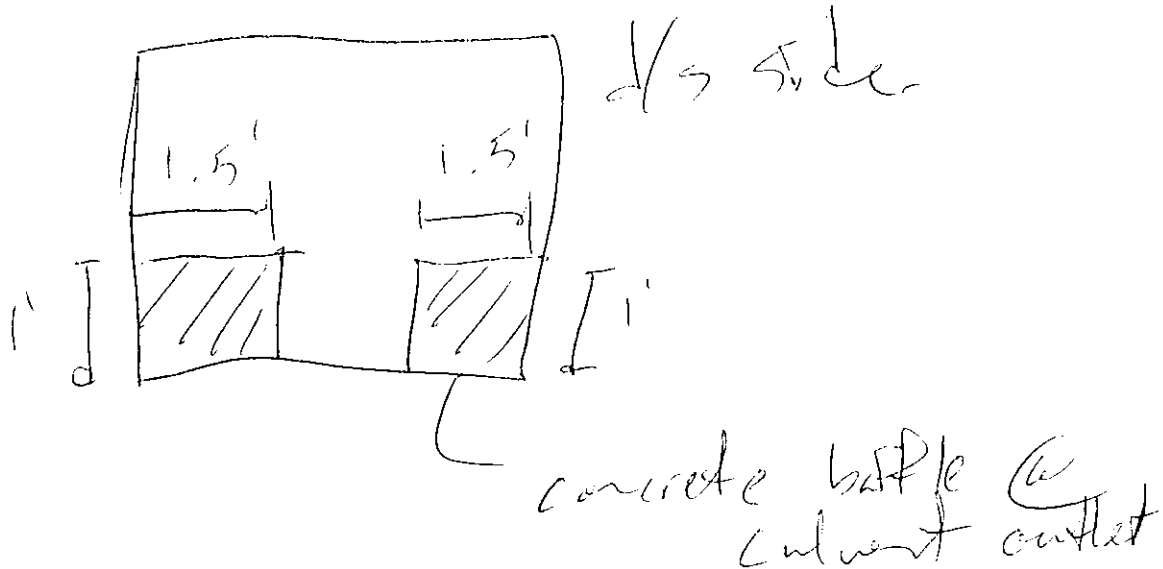
Bed Material

earthen trapezoidal channel d/s to
RR bridge, concrete
rectangular channel u/s

General Channel Condition

Banks


Overbanks





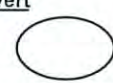



STRUCTURE SURVEY TEMPLATE

				DATE	3/6/08
ROAD NAME		Center Street.		COUNTY	
STREAM NAME		BR 49 Real Canyon		PHOTO ID #	
STRUCTURE #		RC10 West.		X,Y COORDINATE	
TYPE	LENGTH	SIZE (W X H) & SHAPE	MATERIAL	Road to Bed	INLET/OUTLET TYPE
Railroad Bridge		15' x 7' on d/s end 7' x 5' on u/s end.		Top of Road EL	
SPECIAL NOTE (Conditions, Blockage, etc)		u/s channel is very narrow, and channel expands under the bridge			
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)		Wingwalls Type 0°, 45°, 90°
Pier Shape		1) Circular	Bitmus Coated	Top of Road EL	Projecting
Culvert		2) Rectangle (Span X Rise)	Steel		Flush with Slope
Dam		3) Elliptical	Timber	From Topo Map (FT.NGVD) or (FT.NAVD)	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

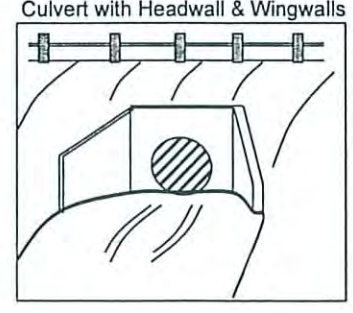
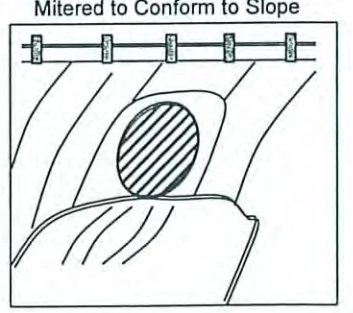
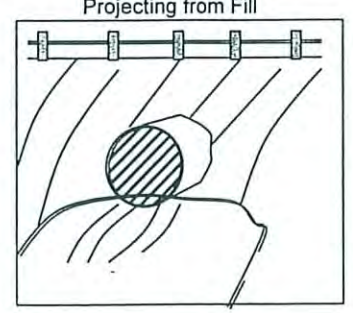
1) Circular pier 2) Twin-Cylinder piers 3) Elongated pier 4) Triangular nose 5) Square nose		1) Circular 4) Con/Span	2) Rectangle 5) Elevated Arch
---------------------------------------------------------------------------------------------------------	-------------------------------------------------------------------------------------	----------------------------	----------------------------------

Types (Shape) of Culvert

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

7) Other

Inlet/Outlet Type

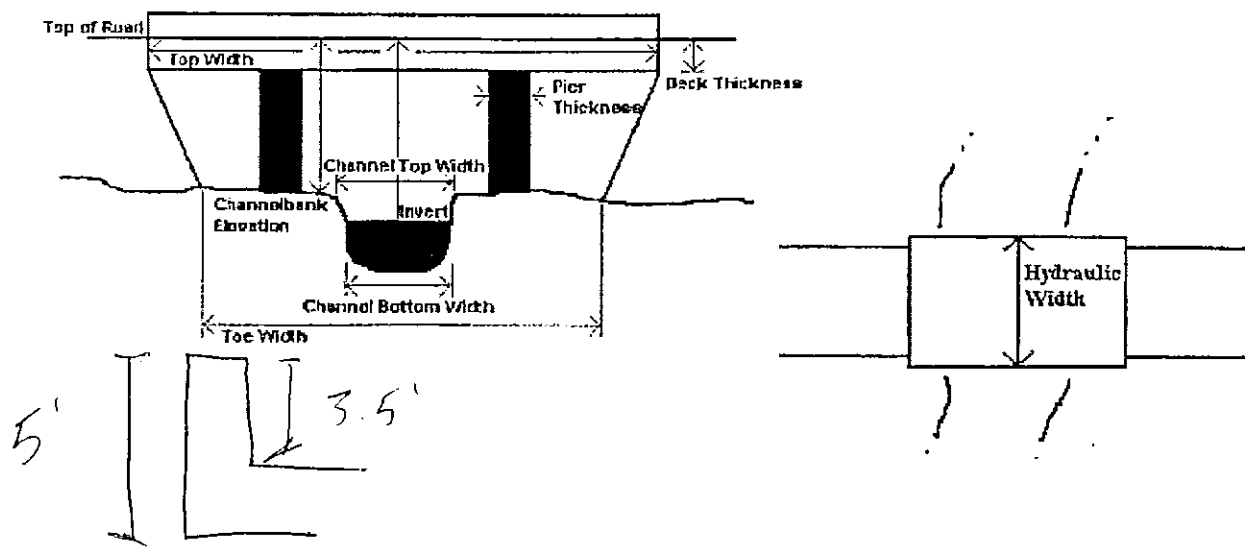
Culvert with Headwall & Wingwalls 	Mitered to Conform to Slope 	Projecting from Fill 
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CHANNEL INFORMATION

ROAD TO BANK	CHANNEL TOP WIDTH	CHANNEL BOTTOM WIDTH

BRIDGE INFORMATION

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



Name	Description	PHOTOS
252	d/s of crossing looking v/s	
253	d/s of crossing looking	
254	v/s of crossing looking d/s	
255	v/s of crossing looking v/s	
256	spillway of debris basin looking v/s	
257	" " " " d/s	

258, 259 debris basin looking east

ADDITIONAL CHANNEL INFORMATION

AG

Land Use

Vegetative Cover

concrete rectangular channel

Bed Material

concrete is worn and pockmarked
under the bridge

General Channel Condition

Banks

Overbanks

STRUCTURE SURVEY TEMPLATE

					DATE	3/6/08
ROAD NAME					COUNTY	
STREAM NAME					PHOTO ID #	
STRUCTURE #			X,Y COORDINATE			
TYPE		LENGTH	SIZE (W X H) & SHAPE	MATERIAL	Road to Bed	INLET/OUTLET TYPE
Railroad Bridge			12' x 6'		Top of Road EL	
SPECIAL NOTE (Conditions, Blockage, etc)			east branch of red canyon			
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 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

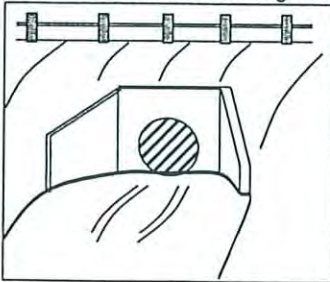


Types (Shape) of Culvert

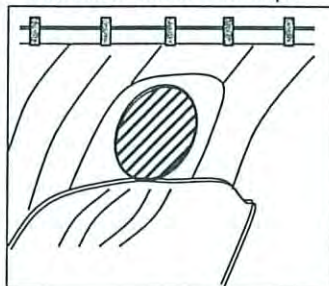
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|-------------|------------------|---------------|
| | | |
| 1) Circular | 2) Rectangle | 3) Elliptical |
| | | |
| 4) Con/Span | 5) Elevated Arch | 6) Pipe Arch |
| 7) Other | | |

Inlet/Outlet Type

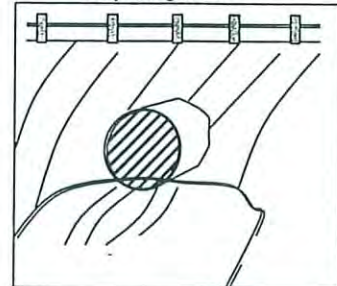
Culvert with Headwall & Wingwalls



Mitered to Conform to Slope



Projecting from Fill

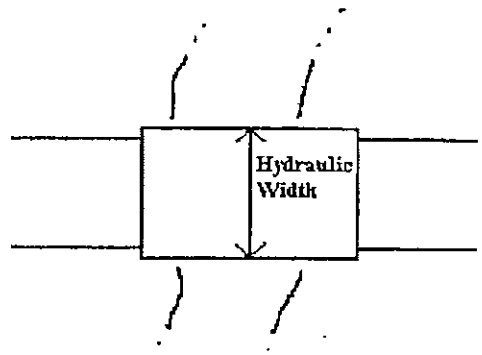
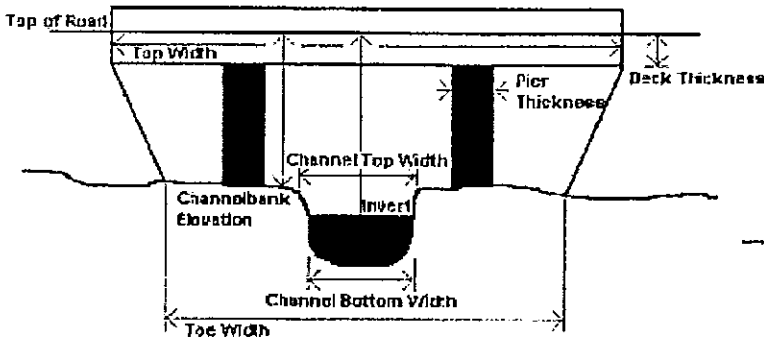


CHANNEL INFORMATION

ROAD TO BANK	CHANNEL TOP WIDTH	CHANNEL BOTTOM WIDTH

BRIDGE INFORMATION

DECK THICKNESS	TOP WIDTH	TOE WIDTH
2.5		
HYDRAULIC WIDTH	NUMBER OF PIERS	PIER THICKNESS



PHOTOS

Name	Description	PHOTOS
	see 246	
268	w/s side of crossing looking d/s	
270	w/s of crossing looking w/s	

ADDITIONAL CHANNEL INFORMATION

Land Use

Vegetative Cover

Bed Material

east branch of Red Canyon
concrete rectangular channel ups.

General Channel Condition

Banks


Overbanks

STRUCTURE SURVEY TEMPLATE


					DATE	3/16/08
ROAD NAME		Camulos St			COUNTY	
STREAM NAME		Real Canyon			PHOTO ID #	
STRUCTURE #		RC 17 east			X,Y COORDINATE	
TYPE	LENGTH	SIZE (W X H) & SHAPE	MATERIAL	Road to Bed	INLET/OUTLET TYPE	
Railroad Bridge		9' x 6'		Top of Road EL		
SPECIAL NOTE (Conditions, Blockage, etc)		next d/s crossing is RC 8 east				
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 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




4) Con/Span




2) Rectangle



5) Elevated Arch



3) Elliptical

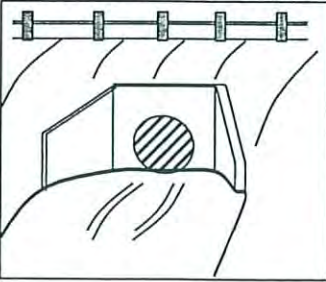


6) Pipe Arch

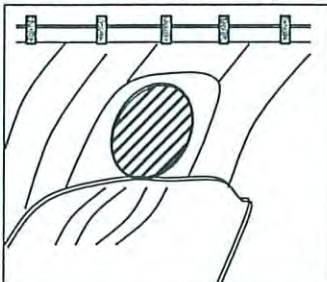
7) Other

Inlet/Outlet Type

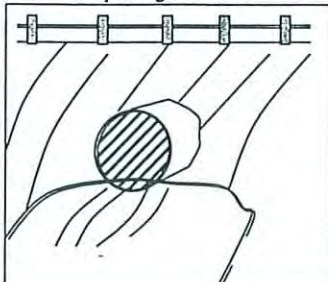
Culvert with Headwall & Wingwalls



Mitered to Conform to Slope



Projecting from Fill

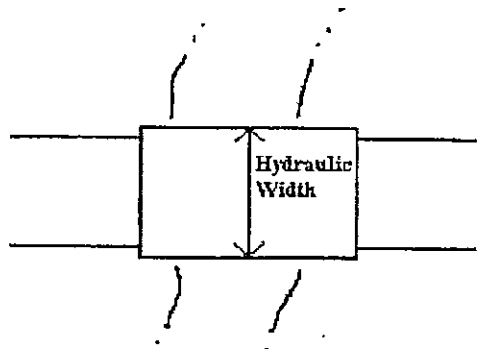
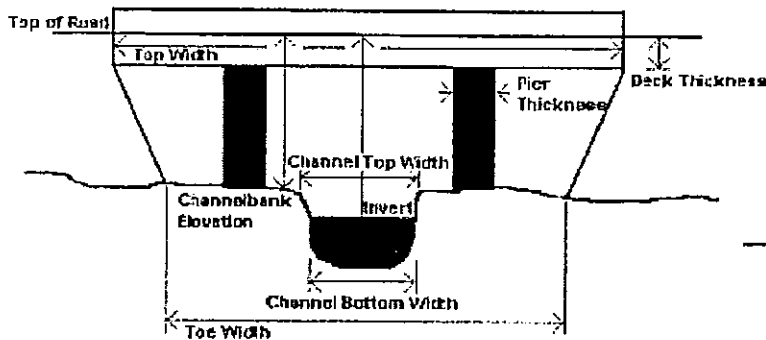


CHANNEL INFORMATION

ROAD TO BANK	CHANNEL TOP WIDTH	CHANNEL BOTTOM WIDTH

BRIDGE INFORMATION

DECK THICKNESS	TOP WIDTH	TOE WIDTH
18"		
HYDRAULIC WIDTH	NUMBER OF PIERS	PIER THICKNESS



18" d/s
30" d/s
4" v/s, 6" d/s

Name	Description	PHOTOS
266	v/s side of crossing looking d/s	
266	v/s side of crossing looking v/s	
267	d/s side of crossing looking v/s	
268	d/s side of crossing looking d/s	

ADDITIONAL CHANNEL INFORMATION

Land Use

Vegetative Cover

u/s concrete channel shows evidence of erosion / abrasion.

Bed Material

grouted concrete ~ 100' u/s of crossing to drop structure.

General Channel Condition

grouted boulder toe on rt + left banks
d/s of crossing

Banks

erosive, sandy material

Overbanks

STRUCTURE SURVEY TEMPLATE







					DATE	3/6/08
ROAD NAME			Center St		COUNTY	
STREAM NAME			Red Canyon		PHOTO ID #	
STRUCTURE #			RC 16 cut		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)			large drop d/s of crossing, d/s channel is grouted boulders.			
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 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

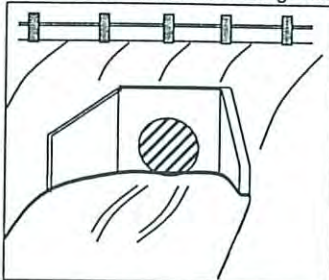


Types (Shape) of Culvert

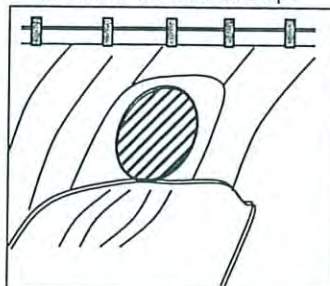
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|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|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

Inlet/Outlet Type

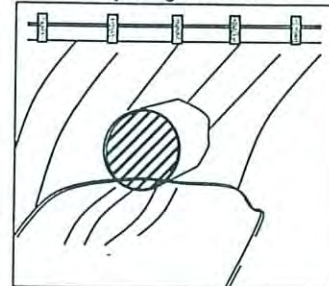
Culvert with Headwall & Wingwalls



Mitered to Conform to Slope



Projecting from Fill

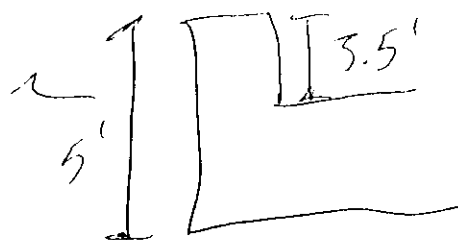
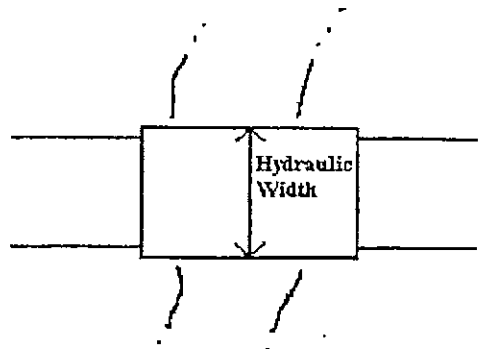
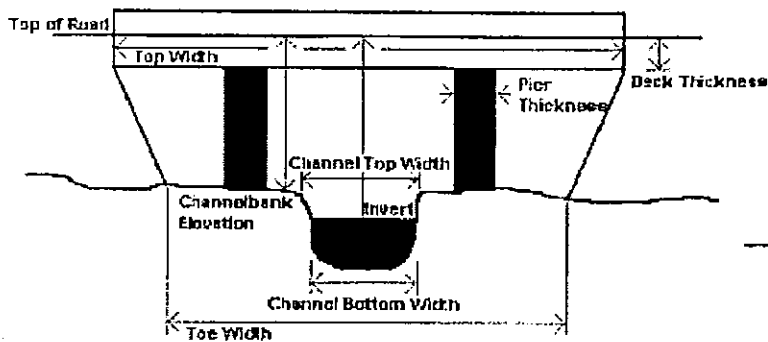


CHANNEL INFORMATION

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	PHOTOS
262	d/s side of crossing looking u/s	
263	d/s of crossing looking d/s	
264	u/s of crossing looking d/s	

ADDITIONAL CHANNEL INFORMATION

Land Use

Vegetative Cover

Bed Material

U/S is concrete trapezoidal
d/S is earthen channel w/
some grouted
sections.

General Channel Condition

Banks

Overbanks

STRUCTURE SURVEY TEMPLATE

				DATE	3/6/08
ROAD NAME				COUNTY	
STREAM NAME				Real Canyon	
STRUCTURE #		RC 19 East		PHOTO ID #	
TYPE		LENGTH		SIZE (W X H) & SHAPE	
RAILROAD BRIDGE				MATERIAL	
				Road to Bed	
				INLET/OUTLET TYPE	
				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 Span Bridge 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 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)

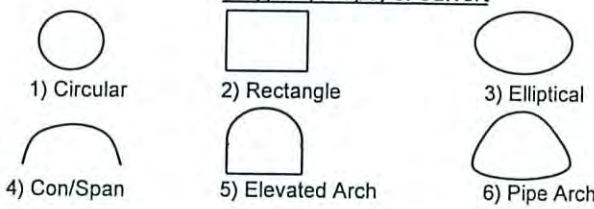
Pier Shape

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



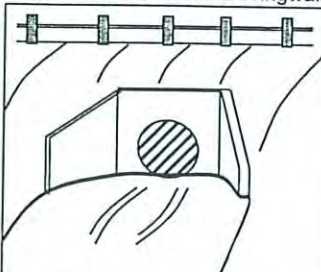
Types (Shape) of Culvert

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

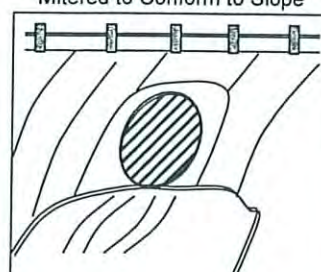


Inlet/Outlet Type

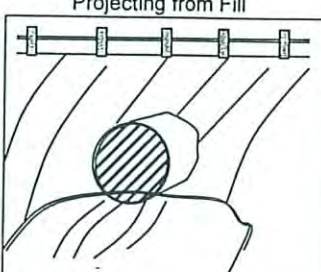
Culvert with Headwall & Wingwalls



Mitered to Conform to Slope



Projecting from Fill

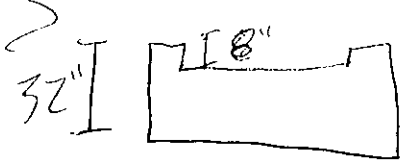
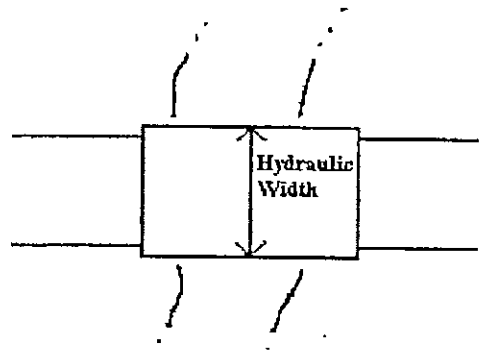
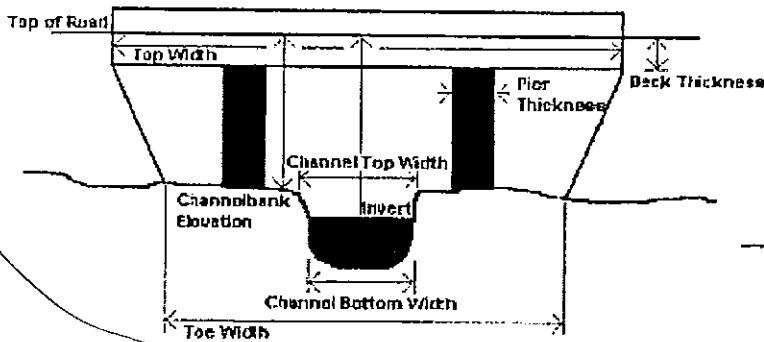


CHANNEL INFORMATION

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
Z61	views of crossing looking d/s.

ADDITIONAL CHANNEL INFORMATION

Land Use

Vegetative Cover

Bed Material

rectangular concrete channel u/s,
trapezoidal concrete channel d/s

General Channel Condition

Banks

Overbanks


there is a small pedestrian crossing ~ 15'
d/s w/ deck thickness ~ 1'

STRUCTURE SURVEY TEMPLATE

					DATE	3/6/08
ROAD NAME			<i>Red Canyon</i>		COUNTY	
STREAM NAME			<i>RC 20 east</i>		PHOTO ID #	
STRUCTURE #			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)			<i>debris Basin @ ups end of red canyon.</i>			
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 MES (Mitered End Section) FES (Flared End Section)
Span Bridge			1) Circular	CMP (Corrugated Metal Pipe)		
Pier Shape			2) Rectangle (Span X Rise)	Bitmus Coated	Top of Road EL	
Culvert			3) Elliptical	Steel	From Topo Map (FT.NGVD) or (FT.NAVD)	
Dam			4) Con/Span	Timber		
Spillway			5) Elevated Arch	Ductile		
Riser Barrel			6) Pipe Arch	Clay		
Outlet			7) Other	Masonry Rock		

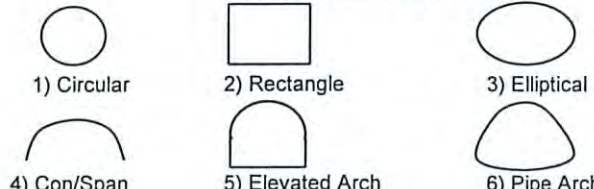
Pier Shape

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



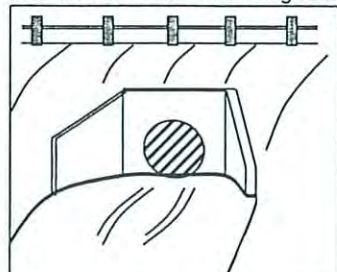
Types (Shape) of Culvert

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

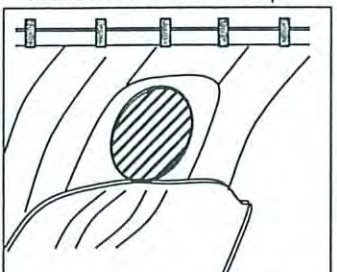


Inlet/Outlet Type

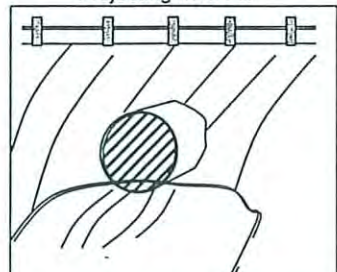
Culvert with Headwall & Wingwalls



Mitered to Conform to Slope



Projecting from Fill

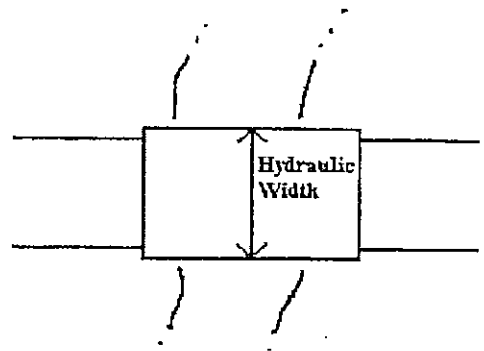
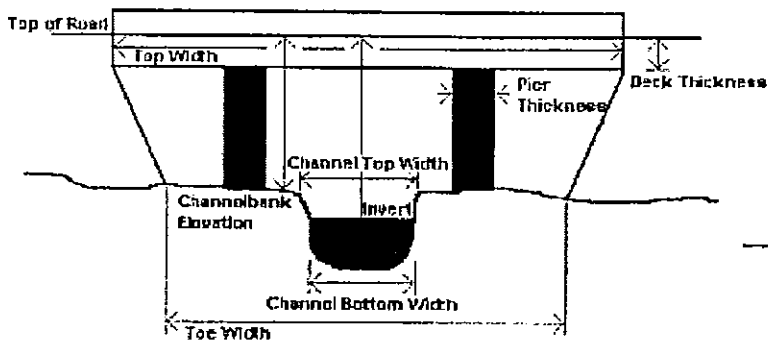


CHANNEL INFORMATION

ROAD TO BANK	CHANNEL TOP WIDTH	CHANNEL BOTTOM WIDTH

BRIDGE INFORMATION

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



Name	Description	PHOTOS
260	d/s of	debris basin looking e/s

ADDITIONAL CHANNEL INFORMATION

Land Use

Vegetative Cover

Bed Material

Rectangular concrete channel d/s of
debris basin

General Channel Condition

Banks

Overbanks
