STRUCTURE SURVEY TEMPLATE

				DATE	3/5/08
ROAD NAME	Pyle (Valley Crest tree company).			COUNTY	
STREAM NAME	Bear Creek.			PHOTO ID #	
STRUCTURE #	BC1		X,Y COORDINATE		
TYPE	LENGTH	SIZE (W X H) & SHAPE	MATERIAL	Road to Bed	INLET/OUTLET TYPE
Railroad Bridge		28' x 4'		Top of Road EL	
SPECIAL NOTE (Conditions, Blockage, etc)	Flat car crossing South of Ventura Blvd. deck thickness transitions From 1.5 ft to 2.5 ft				
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 Flat car crossing	Height from Top of Road to Invert Top of Road EL From Topo Map (FT.NGVD) or (FT.NAVD)	Headwall Wingwalls Type 0^0, 45^0, 90^0 Projecting Flush with Slope MES (Mitered End Section) FES (Flared End Section)

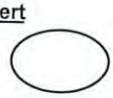
Pier Shape

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

Types (Shape) of Culvert

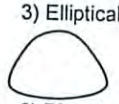

1) Circular


2) Rectangle


3) Elliptical


4) Con/Span

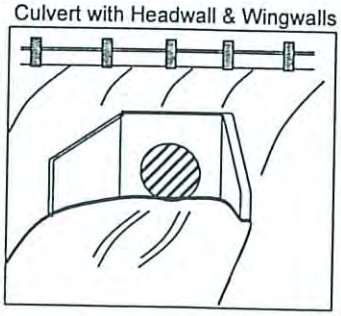

5) Elevated Arch


6) Pipe Arch

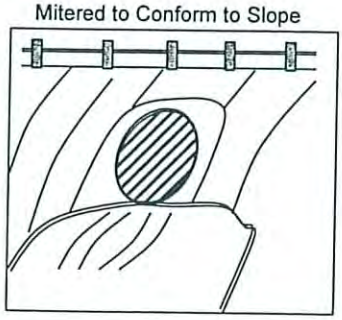
7) Other

Inlet/Outlet Type

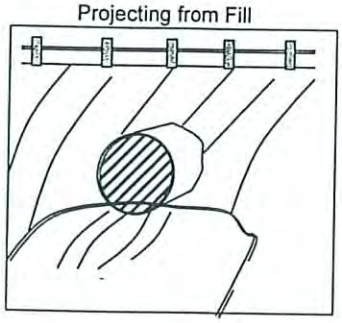
Culvert with Headwall & Wingwalls



Mitered to Conform to Slope



Projecting from Fill

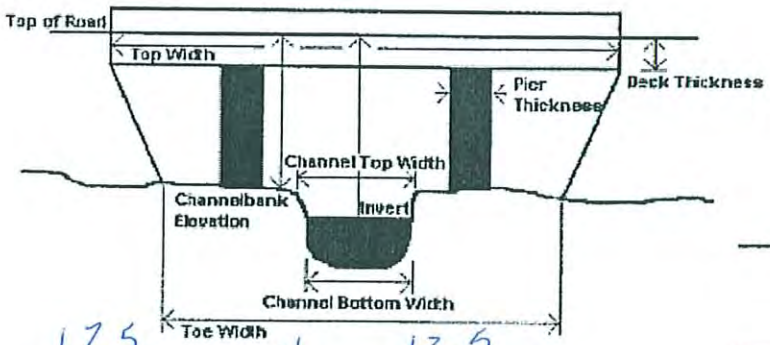


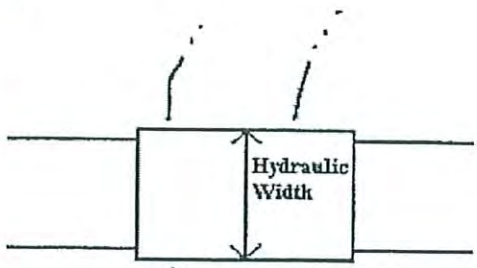
CHANNEL INFORMATION

ROAD TO BANK	CHANNEL TOP WIDTH	CHANNEL BOTTOM WIDTH

BRIDGE INFORMATION

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





12.5 3' 12.5

1.5' Deck 1.0' 2.5'

Conveyance Area 4'

d/s side looking u/s.

PHOTOS

Name	Description
146	d/s side of Flatcar looking u/s
149	u/s side of Flatcar looking d/s
150	d/s side of Flatcar looking d/s.

ADDITIONAL CHANNEL INFORMATION

Tree farm

Land Use

shrubs + brush + small trees along banks

Vegetative Cover

sand + cobbles

Bed Material

~ 1 Ft drop ~ 15' d/s of crossing

General Channel Condition

sandy cobble + gravel.

Banks

Overbanks

STRUCTURE SURVEY TEMPLATE

				DATE	3/5/08
ROAD NAME	Hwy 126			COUNTY	
STREAM NAME	Bear Creek			PHOTO ID #	
STRUCTURE #	BC2		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)	d/s of culvert, rock + wire wall extends u/s of culvert 75' dense vegetation.				
HIGH WATER MARK (Description, Witness, and Date)	very steep transition into culvert, larger opening u/s than d/s - could not access u/s end for measurements.				

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 0^0, 45^0, 90^0 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

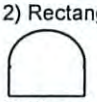
Types (Shape) of Culvert

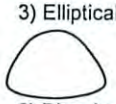

1) Circular


2) Rectangle


3) Elliptical


4) Con/Span

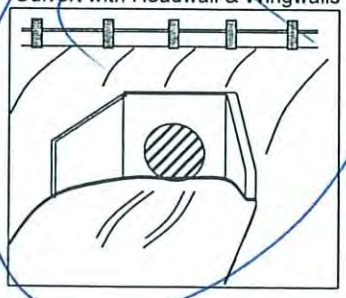

5) Elevated Arch


6) Pipe Arch

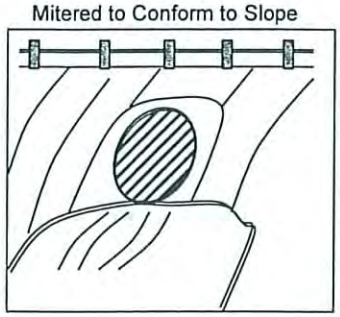
7) Other

Inlet/Outlet Type

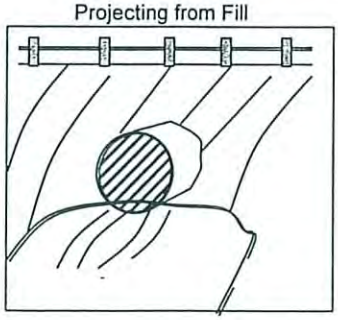
Culvert with Headwall & Wingwalls



Mitered to Conform to Slope



Projecting from Fill

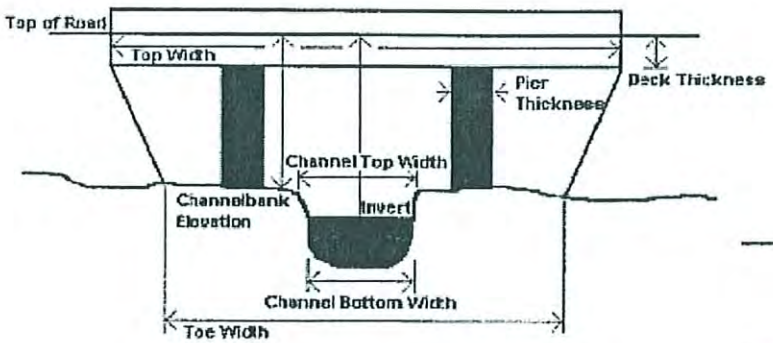


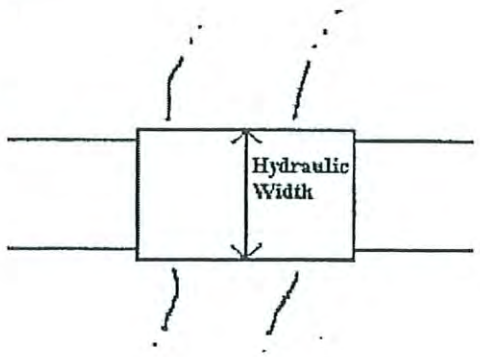
CHANNEL INFORMATION

ROAD TO BANK	CHANNEL TOP WIDTH	CHANNEL BOTTOM WIDTH

BRIDGE INFORMATION

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





PHOTOS

Name	Description
151	d/s side of culvert looking u/s
152	d/s side of culvert looking d/s.
153	u/s side of culvert looking d/s
154	u/s side of culvert looking u/s.

ADDITIONAL CHANNEL INFORMATION

Land Use

dense vegetation u/s and d/s of crossing

Vegetative Cover

silt and small rocks

Bed Material

General Channel Condition

Banks

Overbanks

Need record drawings

STRUCTURE SURVEY TEMPLATE

				DATE	3/5/08
ROAD NAME				COUNTY	
STREAM NAME	Bear Creek			PHOTO ID #	
STRUCTURE #	BC3		X,Y COORDINATE		
TYPE	LENGTH	SIZE (W X H) & SHAPE	MATERIAL	Road to Bed	INLET/OUTLET TYPE
Railroad Bridge		see drawing on next pg		Top of Road EL	
SPECIAL NOTE (Conditions, Blockage, etc)	RR 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)		Headwall
Span Bridge			CMP (Corrugated Metal Pipe)	Height from Top of Road to Invert	Wingwalls Type 0^0, 45^0, 90^0
Pier Shape		1) Circular	Bitmus Coated		Projecting
Culvert		2) Rectangle (Span X Rise)	Steel		Flush with Slope
Dam		3) Elliptical	Timber	Top of Road EL	MES (Mitered End Section)
Spillway		4) Con/Span	Ductile		FES (Flared End Section)
Riser Barrel		5) Elevated Arch	Clay	From Topo Map (FT.NGVD) or (FT.NAVD)	
Outlet		6) Pipe Arch	Masonry Rock		
		7) Other			

5 piers

Pier Shape

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

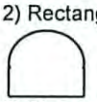
Types (Shape) of Culvert

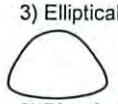

1) Circular


2) Rectangle


3) Elliptical


4) Con/Span

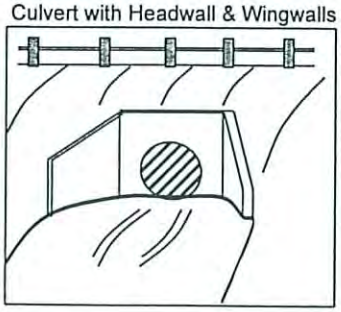

5) Elevated Arch


6) Pipe Arch

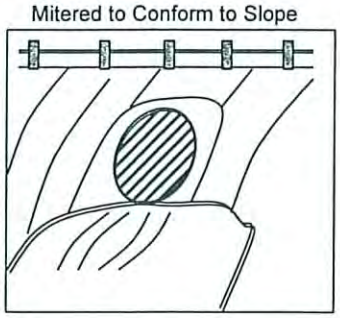
7) Other

Inlet/Outlet Type

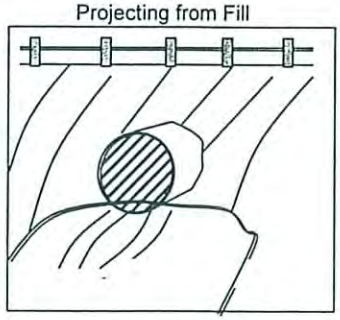
Culvert with Headwall & Wingwalls



Mitered to Conform to Slope



Projecting from Fill

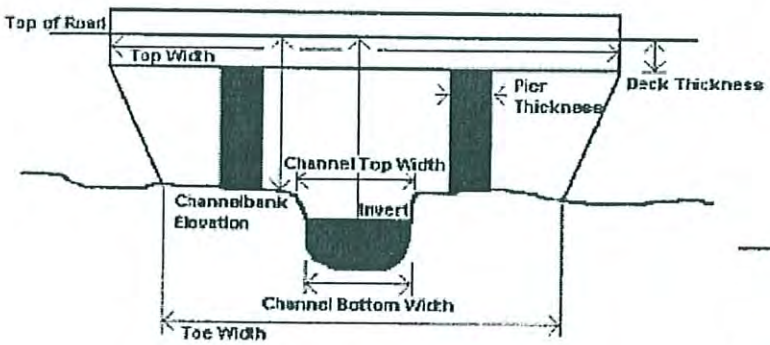


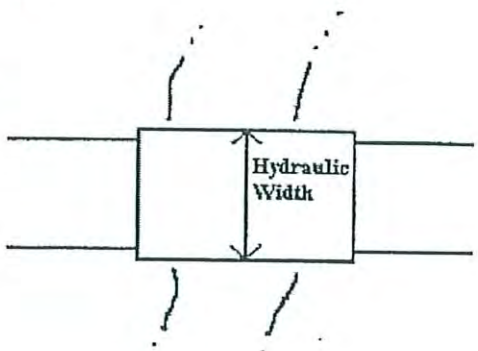
CHANNEL INFORMATION

ROAD TO BANK	CHANNEL TOP WIDTH	CHANNEL BOTTOM WIDTH

BRIDGE INFORMATION

DECK THICKNESS	TOP WIDTH	TOE WIDTH
33"		
HYDRAULIC WIDTH	**NUMBER OF PIERS**	**PIER THICKNESS**
	5	1,5'





PHOTOS

Name	Description
155	d/s side of RR bridge looking u/s
156	d/s side of RR bridge looking u/s @ scour hole
157	d/s side of RR bridge looking d/s
158	u/s side of RR bridge looking d/s @ scour hole
159	u/s side of RR bridge looking d/s.

ADDITIONAL CHANNEL INFORMATION

Land Use

dense shrubs & brush u/s + d/s. a

Vegetative Cover

Cobble + sand $d_{50} \approx$ 9"

Bed Material

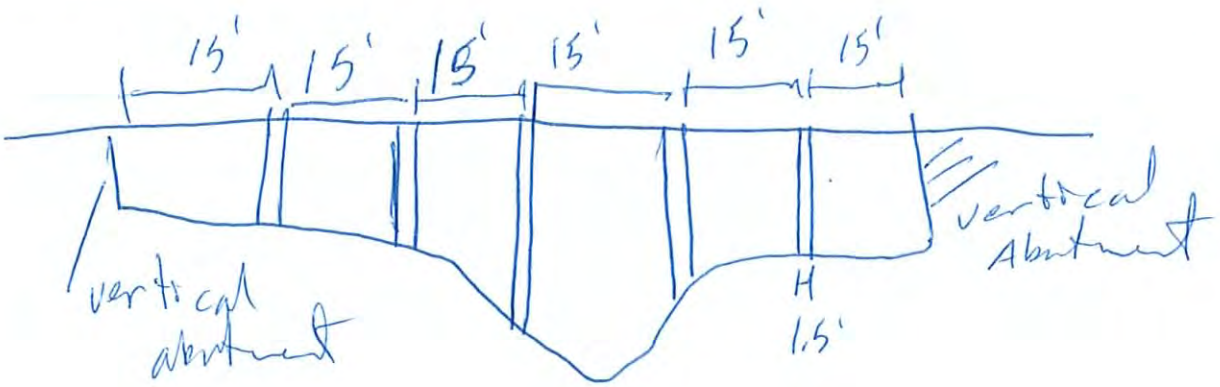
U/S of bridge there is a concrete apron that has been eroded, now there is a low-flow channel under the bridge that has been scoured out

General Channel Condition

under bridge, banks have been grouted.

Banks

Overbanks



STRUCTURE SURVEY TEMPLATE

				DATE	3/5/08
ROAD NAME	Sycamore			COUNTY	
STREAM NAME	Bear Creek			PHOTO ID #	
STRUCTURE #	BC 4		X,Y COORDINATE		
TYPE	LENGTH	SIZE (W X H) & SHAPE	MATERIAL	Road to Bed	INLET/OUTLET TYPE
Railroad Bridge		14'x6'		Top of Road EL	
SPECIAL NOTE (Conditions, Blockage, etc)	1/4 of capacity is blocked by sediment				
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 0^0, 45^0, 90^0
Pier Shape		1) Circular	Bitmus Coated		Projecting
Culvert		2) Rectangle (Span X Rise)	Steel		Flush with Slope
Dam		3) Elliptical	Timber	Top of Road EL	MES (Mitered End Section)
Spillway		4) Con/Span	Ductile		FES (Flared End Section)
Riser Barrel		5) Elevated Arch	Clay	From Topo Map (FT.NGVD) or (FT.NAVD)	
Outlet		6) Pipe Arch	Masonry Rock		
		7) Other			

Pier Shape

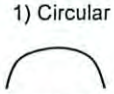
1) Circular pier
2) Twin-Cylinder piers
3) Elongated pier
4) Triangular nose
5) Square nose

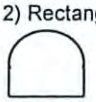
Types (Shape) of Culvert

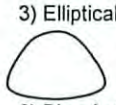

1) Circular


2) Rectangle


3) Elliptical


4) Con/Span

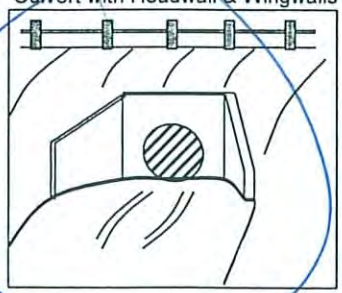

5) Elevated Arch


6) Pipe Arch

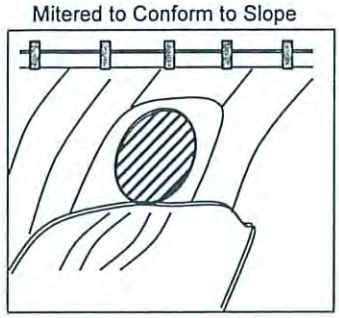
7) Other

Inlet/Outlet Type

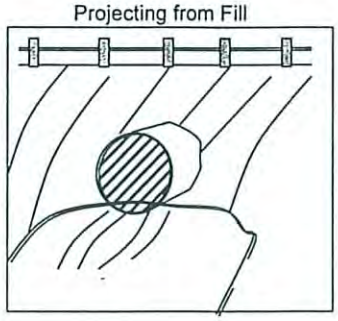
Culvert with Headwall & Wingwalls



Mitered to Conform to Slope



Projecting from Fill

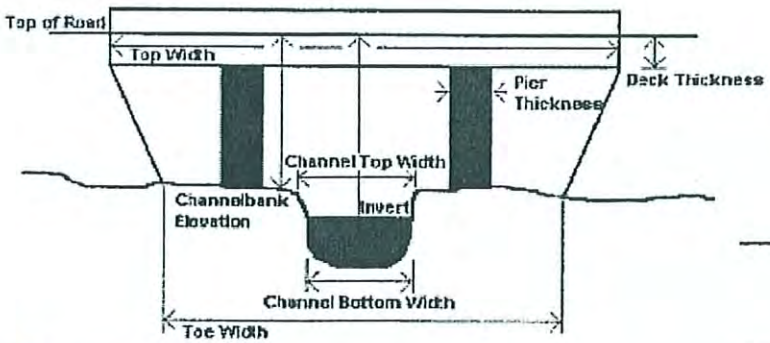


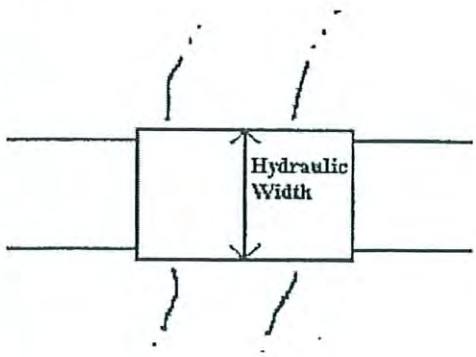
CHANNEL INFORMATION

ROAD TO BANK	CHANNEL TOP WIDTH	CHANNEL BOTTOM WIDTH

BRIDGE INFORMATION

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





42" 32"

PHOTOS

Name	Description
160	d/s side of bridge, looking u/s.
161	d/s side of culvert showing sediment blocking 1/4 of conveyance area.
162	d/s side of culvert looking d/s.
163	u/s side of culvert looking d/s
164	u/s side of culvert looking u/s

ADDITIONAL CHANNEL INFORMATION

Land Use

dense shrubs + trees.

Vegetative Cover

sand, cobble, + boulders

Bed Material

General Channel Condition

erosive sandy material; severe scour
U/S nearly vertical banks, trapezoid channel
d/s

Banks

Overbanks

STRUCTURE SURVEY TEMPLATE

				DATE	3/5/08
ROAD NAME				COUNTY	
STREAM NAME	Bear Creek			PHOTO ID #	
STRUCTURE #	BC5		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)	Could not get to upstream crossing, private property. Lloyd Crawford Ranch.				
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 0^0, 45^0, 90^0 Projecting Flush with Slope MES (Mitered End Section) FES (Flared End Section)

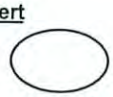
Pier Shape

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

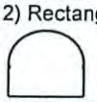
Types (Shape) of Culvert

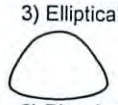

1) Circular


2) Rectangle


3) Elliptical


4) Con/Span

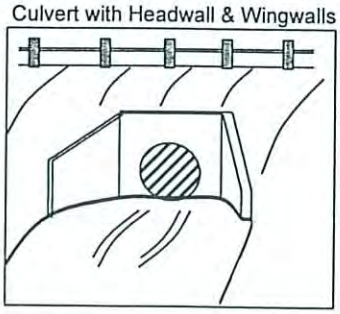

5) Elevated Arch


6) Pipe Arch

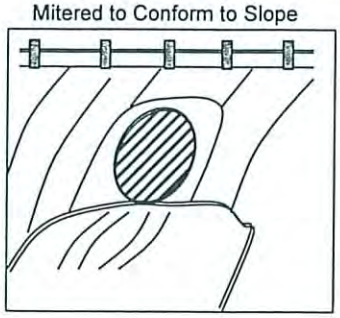
7) Other

Inlet/Outlet Type

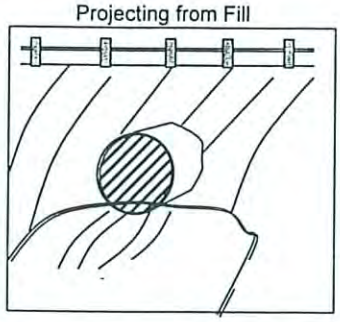
Culvert with Headwall & Wingwalls



Mitered to Conform to Slope



Projecting from Fill

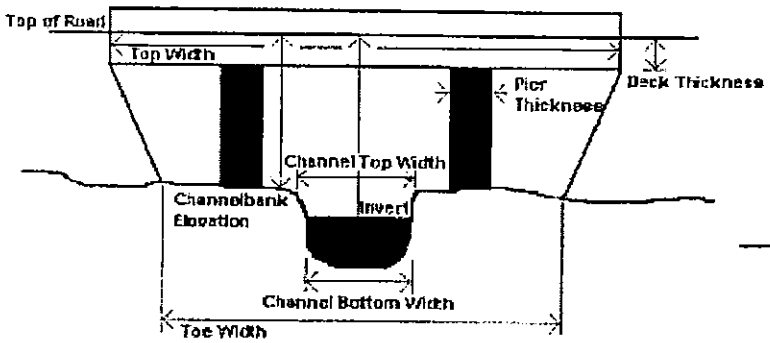


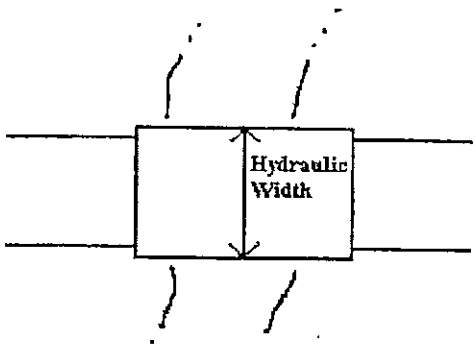
CHANNEL INFORMATION

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

ADDITIONAL CHANNEL INFORMATION

Land Use

Vegetative Cover

Bed Material

General Channel Condition

Banks

Overbanks