

STRUCTURE SURVEY TEMPLATE







					DATE	3/5	
ROAD NAME				Oleary Creek		COUNTY	
STREAM NAME						PHOTO ID #	
STRUCTURE #			061		X,Y COORDINATE		
TYPE	LENGTH	SIZE (W X H) & SHAPE	MATERIAL	Road to Bed	INLET/OUTLET TYPE		
Railroad Bridge		estimate from LIDAR		Top of Road EL			
SPECIAL NOTE (Conditions, Blockage, etc)			severe scour under RR bridge				
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

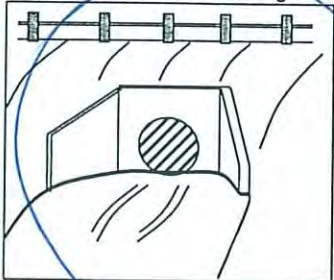


Types (Shape) of Culvert

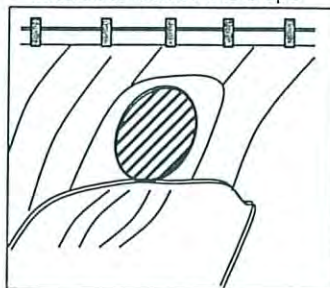
- | | | |
|---|---|---|
|  |  |  |
| 1) Circular | 2) Rectangle | 3) Elliptical |
|  |  |  |
| 4) Con/Span | 5) Elevated Arch | 6) Pipe Arch |
| 7) Other | | |

Inlet/Outlet Type

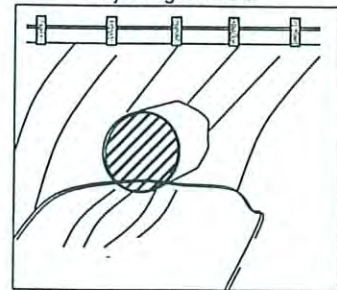
Culvert with Headwall & Wingwalls



Mitered to Conform to Slope



Projecting from Fill

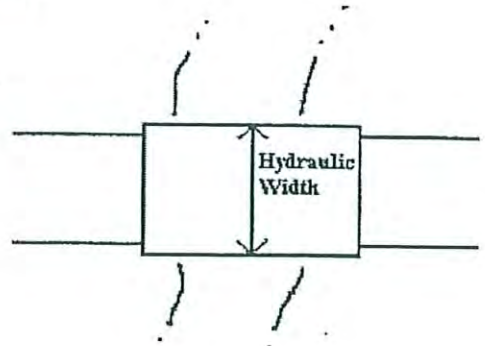
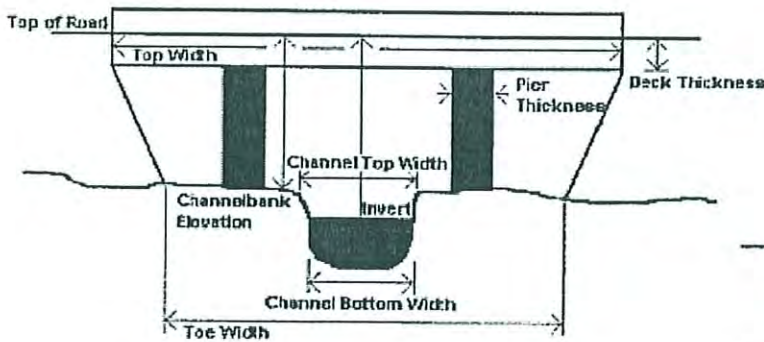


CHANNEL INFORMATION

ROAD TO BANK	CHANNEL TOP WIDTH	CHANNEL BOTTOM WIDTH

BRIDGE INFORMATION

DECK THICKNESS	TOP WIDTH	TOE WIDTH
42"		
HYDRAULIC WIDTH	NUMBER OF PIERS	PIER THICKNESS



PHOTOS

Name	Description
165	d/s side of RR bridge looking u/s
166	u/s side of bridge looking d/s
167	u/s side of bridge looking u/s

ADDITIONAL CHANNEL INFORMATION

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Land Use

dense shrubst trees along banks

Vegetative Cover

sand, gravel, small cobbles

Bed Material

overgrown + evidence of erosion

General Channel Condition

erosion, sandy material.

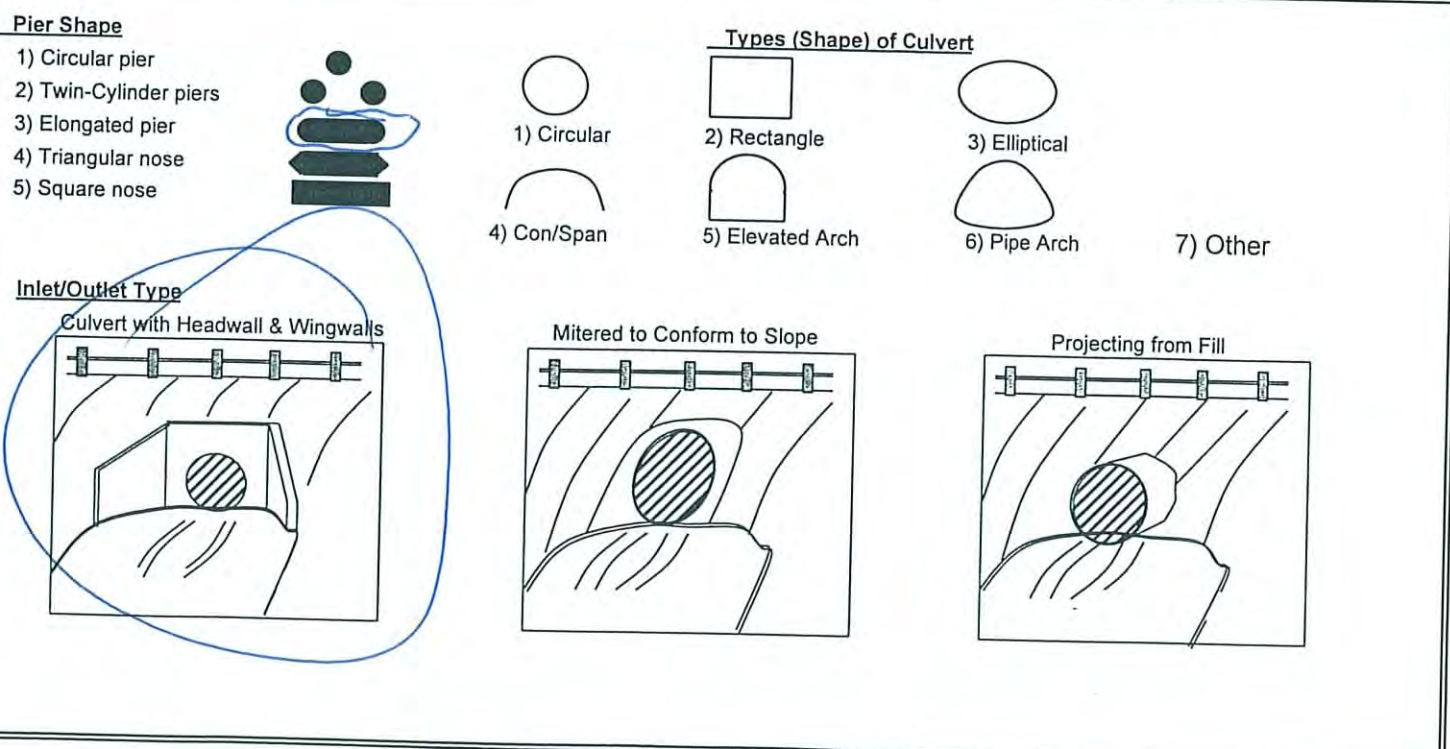
v/h banks are severely eroded ~ 1 1/2' high
vertical walls.

Banks

Overbanks

STRUCTURE SURVEY TEMPLATE

DATE				3/5/08	
ROAD NAME			Hwy 12G		
STREAM NAME			Oleary Creek		
STRUCTURE #			OC 2		
TYPE			X,Y COORDINATE		
LENGTH		SIZE (W X H) & SHAPE		MATERIAL	
Railroad Bridge		2 10' x 8'			
				Road to Bed	
				Top of Road: EL	
SPECIAL NOTE (Conditions, Blockage, etc)		large ~ 6' drop ~ 50' d/s of culvert, right barrel (looking d/s) has exposed rebar -			
HIGH WATER MARK (Description, Witness, and Date)		significant debris ~ 3' high, blocking flow from entering left barrel			
TYPE		CULVERT TYPE		MATERIAL	
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	
				Road to Bed	
				Top of Road: EL	
				Height from Top of Road to Invert From Topo Map (FT.NGVD) or (FT.NAVD)	
				INLET/OUTLET TYPE Headwall Wingwalls Type 0°, 45°, 90° Projecting Flush with Slope MES (Mitered End Section) FES (Flared End Section)	

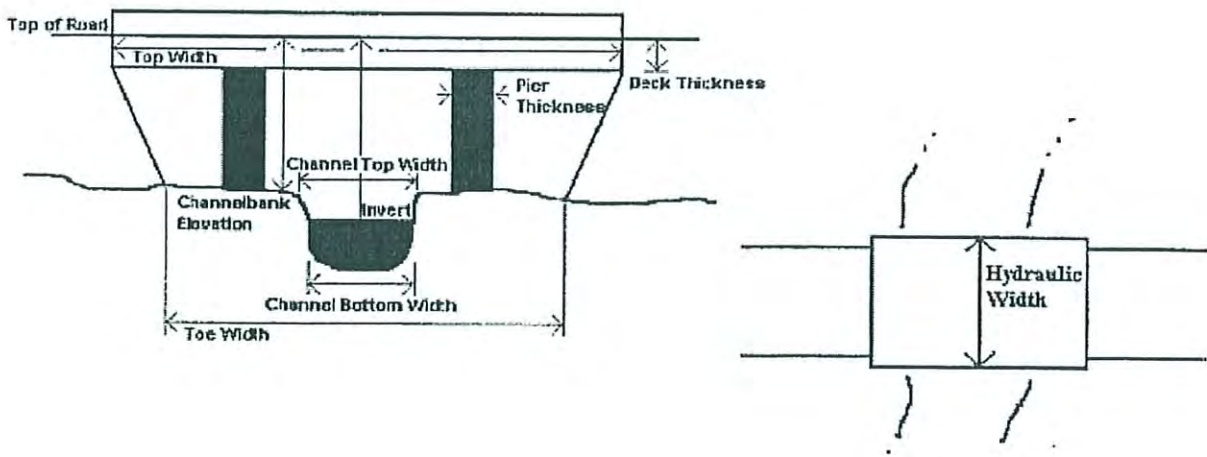


CHANNEL INFORMATION

ROAD TO BANK	CHANNEL TOP WIDTH	CHANNEL BOTTOM WIDTH

BRIDGE INFORMATION

DECK THICKNESS	TOP WIDTH	TOE WIDTH
18"		
HYDRAULIC WIDTH	NUMBER OF PIERS	PIER THICKNESS
	1	9"



PHOTOS

Name	Description
168	drop (scour hole) d/s of bridge.
169	d/s of culvert looking u/s
170	d/s of culvert looking d/s.
171	d/s of culvert looking @ west barrel exposed rebar.
172	u/s of culvert looking d/s
173	u/s of culvert looking u/s.

ADDITIONAL CHANNEL INFORMATION

Land Use

dense vegetation (shrubs + trees)

Vegetative Cover

sand, silt, gravel + some large rocks

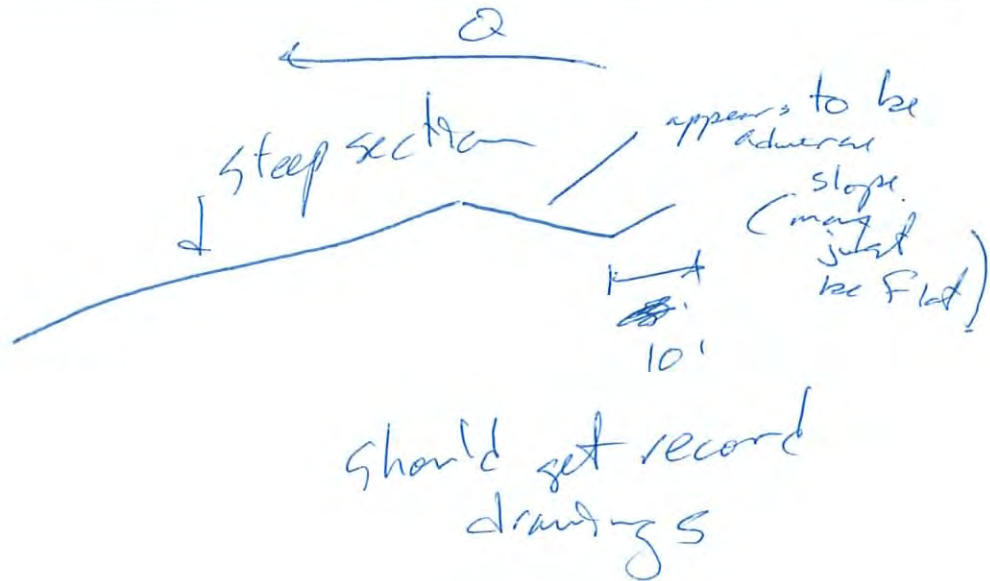
Bed Material

severe scar @ d/3 side of bridge

General Channel Condition

Banks

Overbanks




STRUCTURE SURVEY TEMPLATE

					DATE	3/5/08
ROAD NAME			Sycamore Rd		COUNTY	
STREAM NAME			Oleary Creek		PHOTO ID #	
STRUCTURE #			0C3		X-Y COORDINATE	
TYPE	LENGTH	SIZE (W X H) & SHAPE	MATERIAL	Road to Bed	INLET/OUTLET TYPE	
Railroad Bridge		16.5' x 9'		Top of Road/EL		
SPECIAL NOTE (Conditions, Blockage, etc)			overgrown & eroded w/ g. graded boulders d/s of culvert in channel bottom they have been eroded by high velocities			
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)	Bitum 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			

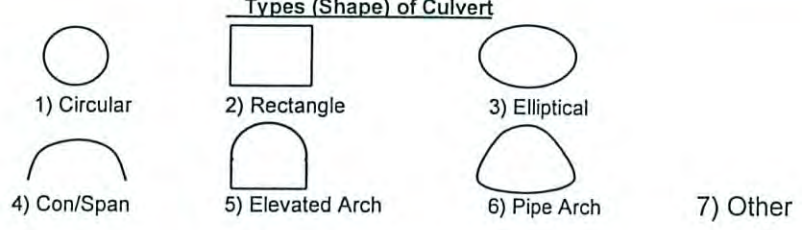
Pier Shape

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



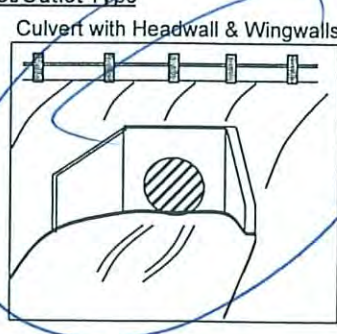
Types (Shape) of Culvert

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

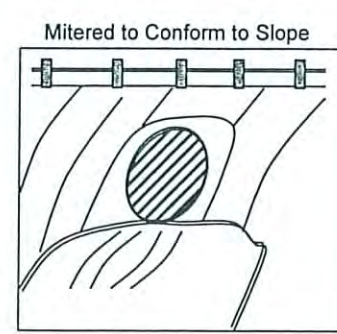


Inlet/Outlet Type

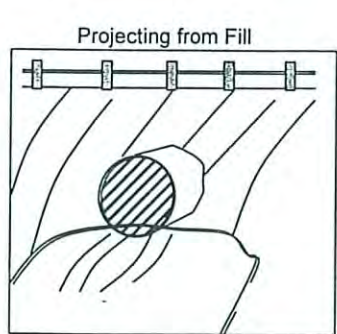
Culvert with Headwall & Wingwalls



Mitered to Conform to Slope



Projecting from Fill

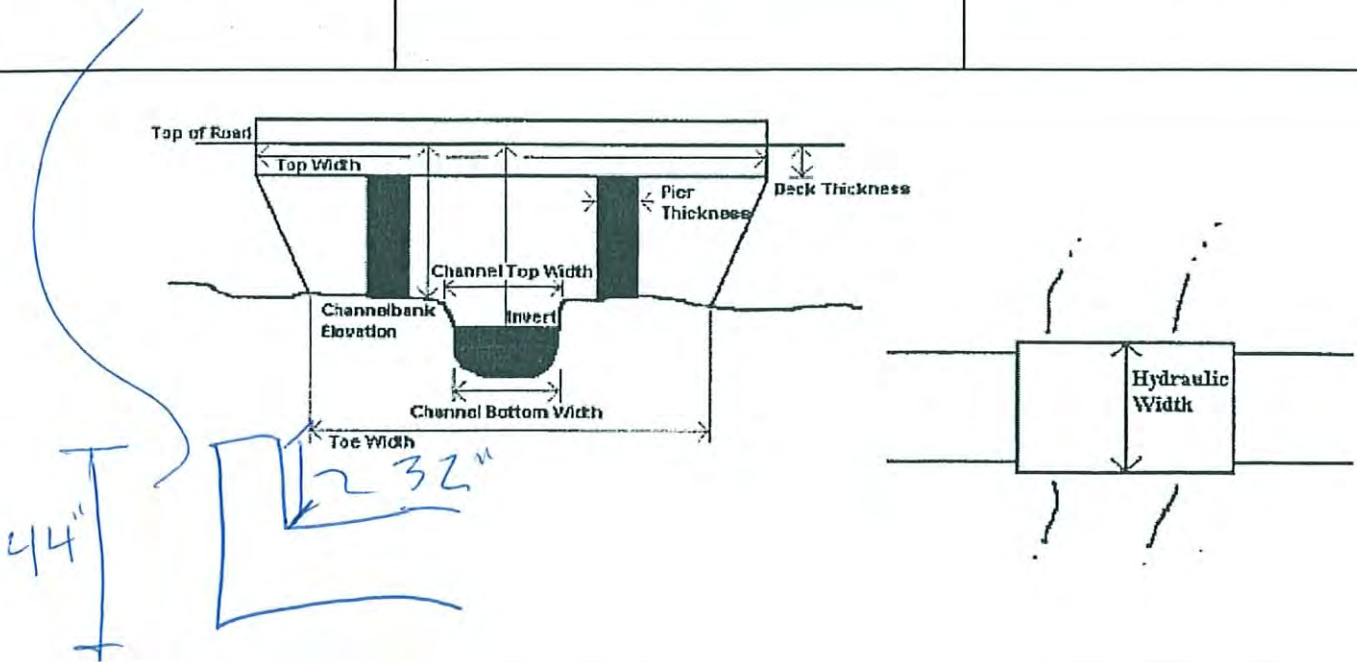


CHANNEL INFORMATION

ROAD TO BANK	CHANNEL TOP WIDTH	CHANNEL BOTTOM WIDTH

BRIDGE INFORMATION

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



PHOTOS

Name	Description	PHOTOS
174	u/s side of culvert looking d/s	
175	u/s side of culvert looking u/s	
176	d/s side of culvert looking u/s	
177	d/s side of culvert looking d/s	

ADDITIONAL CHANNEL INFORMATION

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Land Use

dense shrubs + trees

Vegetative Cover

sand, silt, some boulders

Bed Material

emergent + eroded

General Channel Condition

Banks

Overbanks

STRUCTURE SURVEY TEMPLATE

				DATE	3/5/08
ROAD NAME		Hall Cyn Rd		COUNTY	
STREAM NAME		Oleary Creek		PHOTO ID #	
STRUCTURE #		OC 4		X, Y COORDINATE	
TYPE	LENGTH	SIZE (W X H) & SHAPE	MATERIAL	Road to Bed	INLET/OUTLET TYPE
Railroad Bridge		10' x 10'		Top of Road EL	
SPECIAL NOTE (Conditions, Blockage, etc)		Severely eroded + overgrown d/s culvert is very steep under the road; could not access d/s side			
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 Spillway Riser Barrel Outlet		Number of Barrels 1) Circular 2) Rectangle (Span X Rise) <u>3) Elliptical</u> 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

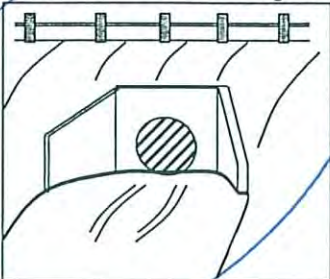


Types (Shape) of Culvert

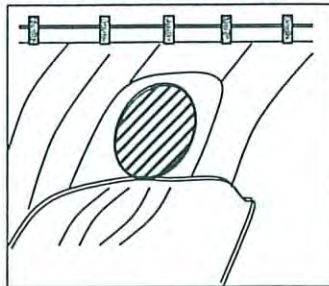
- 1) Circular
- 2) Rectangle
- 3) Elliptical
- 4) Con/Span
- 5) Elevated Arch
- 6) Pipe Arch
- 7) Other

Inlet/Outlet Type

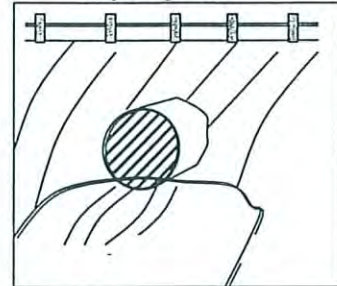
Culvert with Headwall & Wingwalls



Mitered to Conform to Slope



Projecting from Fill

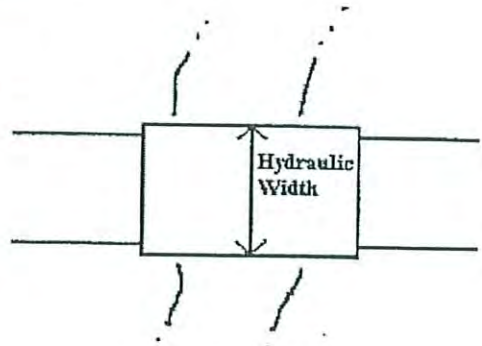
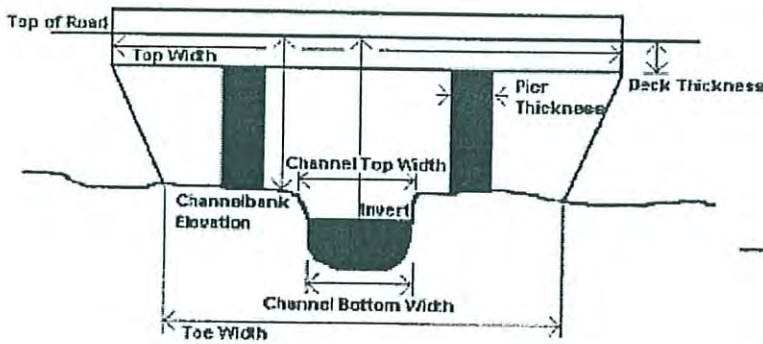


CHANNEL INFORMATION

ROAD TO BANK	CHANNEL TOP WIDTH	CHANNEL BOTTOM WIDTH

BRIDGE INFORMATION

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



		PHOTOS
Name	Description	
178	v/s side of culvert looking d/s	
179	v/s " " " " "	
180	v/s " " " " v/s	
181	d/s side of culvert looking d/s	

ADDITIONAL CHANNEL INFORMATION

Land Use

Vegetative Cover

Bed Material

rebar is exposed inside culvert, evidence of high flow

General Channel Condition

Banks

Overbanks

STRUCTURE SURVEY TEMPLATE


				DATE	3/5/08
ROAD NAME	Toland Rd			COUNTY	
STREAM NAME	Oleary Creek			PHOTO ID #	
STRUCTURE #	OCS		X,Y COORDINATE		
TYPE	LENGTH	SIZE (W X H) & SHAPE	MATERIAL	Road to Bed	INLET/OUTLET TYPE
Railroad Bridge		3 8' x 68"		Top of Road EL	
SPECIAL NOTE (Conditions, Blockage, etc)		large drop @ d/s end of culvert			
HIGH WATER MARK (Description, Witness, and Date)		52"			

TYPE	LENGTH	GULVERT 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)

d/s side of pier is rounded.

Pier Shape

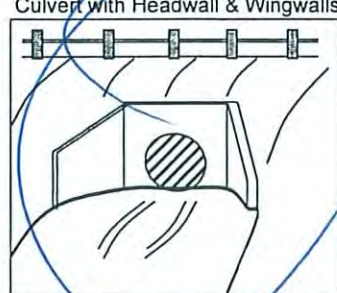
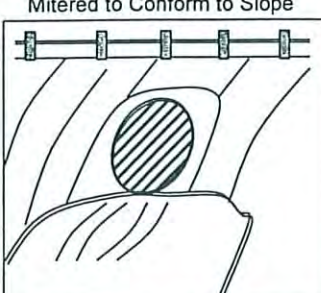
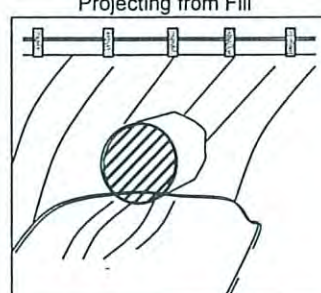
- 1) Circular pier
- 2) Twin-Cylinder piers
- 3) Elongated pier
- 4) Triangular nose
- 5) Square nose



Types (Shape) of Culvert

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

Inlet/Outlet Type

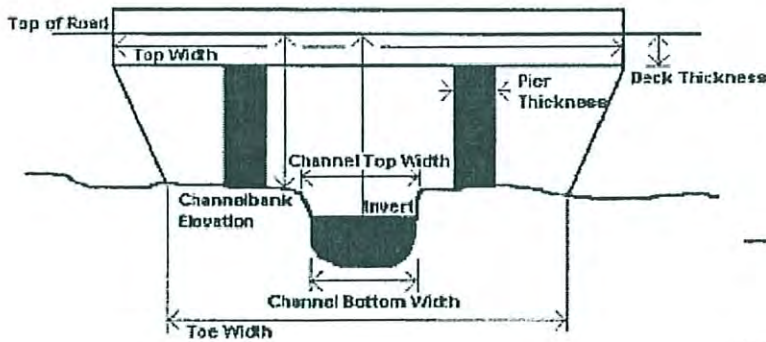
Culvert with Headwall & Wingwalls 	Mitered to Conform to Slope 	Projecting from Fill 
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CHANNEL INFORMATION

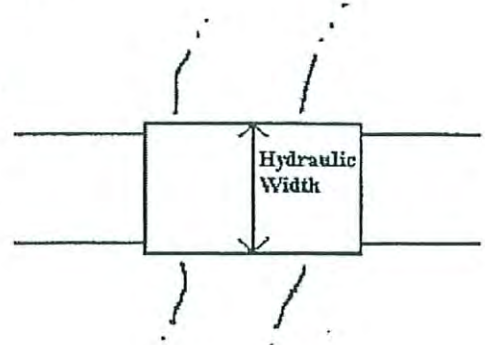
ROAD TO BANK	CHANNEL TOP WIDTH	CHANNEL BOTTOM WIDTH

BRIDGE INFORMATION

DECK THICKNESS	TOP WIDTH	TOE WIDTH
38"		
HYDRAULIC WIDTH	NUMBER OF PIERS	PIER THICKNESS
	2	6"



5 boxes



PHOTOS

Name	Description
182	d/s side of culvert looking ups.
183	d/s side of culvert looking d/s
184	ups side of culvert looking d/s
185	ups side of culvert looking ups.

ADDITIONAL CHANNEL INFORMATION

Land Use

dense shrubs + grasses

Vegetative Cover

sand + cobble w/ large boulders

Bed Material

wide, shallow channel w/ s.

General Channel Condition

Banks

Overbanks