

STRUCTURE SURVEY TEMPLATE

					DATE	3.4.08
ROAD NAME			Shell Rd		COUNTY	
STREAM NAME			Briggs draw		PHOTO ID #	
STRUCTURE #			1 - pipes overcrossing		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)			pipes are 4" to 8" in dia (approx)			
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

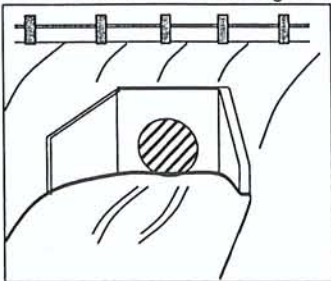


Types (Shape) of Culvert

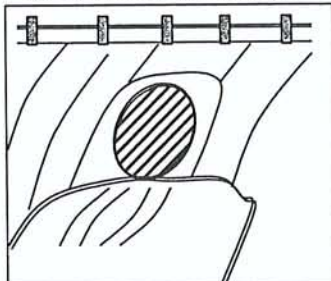
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|-----------------|----------------------|-------------------|----------|
|
1) Circular |
2) Rectangle |
3) Elliptical | |
|
4) Con/Span |
5) Elevated Arch |
6) Pipe Arch | 7) Other |

Inlet/Outlet Type

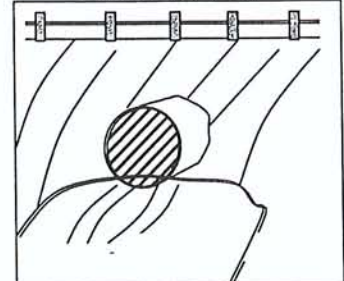
Culvert with Headwall & Wingwalls



Mitered to Conform to Slope



Projecting from Fill

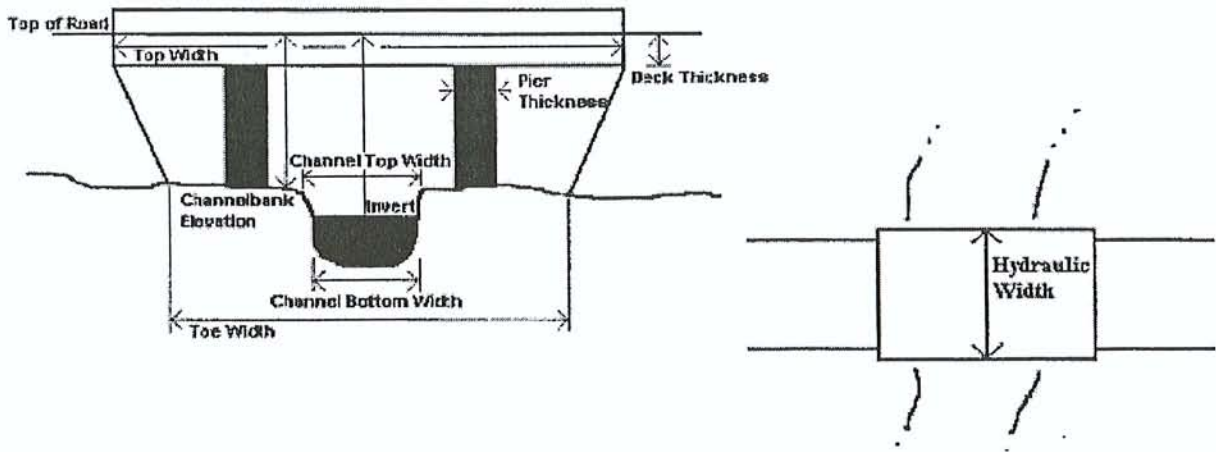


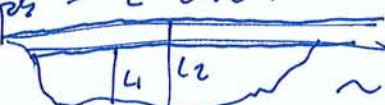
CHANNEL INFORMATION

ROAD TO BANK	CHANNEL TOP WIDTH	CHANNEL BOTTOM WIDTH

BRIDGE INFORMATION

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



Name	Description	PHOTOS
< Photo List > BRDI # 38 ~ # 41		Many pipes crossing over an existing channel
Level 1 ~ 32" to bottom of pipe	9 pipes - 2 levels	
Level 2 ~ 54" to bottom of pipe	Channel D/S has recently been cleared out many willows remain spoils placed on L bank.	

ADDITIONAL CHANNEL INFORMATION

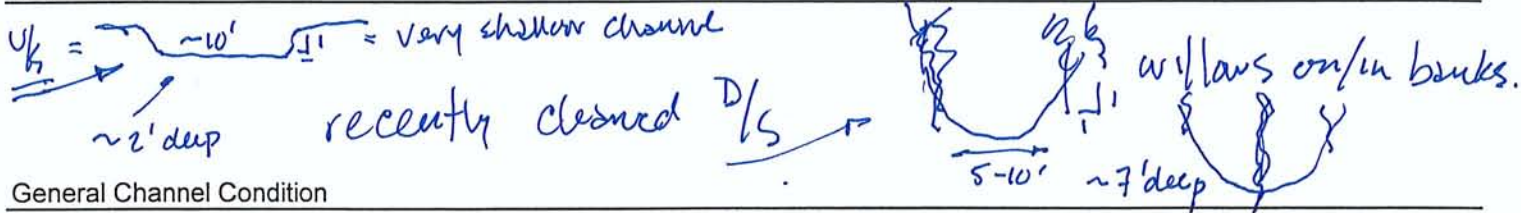
open / dg -- some industrial on ROB near d/s end.

Land Use

Vegetative Cover open d/s of pipes crossing
ag field u/s

Bed Material sand / gravel

Bed Material



General Channel Condition

u/s earthen/cleared
d/s earthen, some brush

Banks

open / dg

Overbanks

Several pipes cross under the channel
- recent clearing has exposed.

STRUCTURE SURVEY TEMPLATE

					DATE	3.4.08		
ROAD NAME				frontage? + Hwy 126		COUNTY		
STREAM NAME				Bridges drain		PHOTO ID #		
STRUCTURE #			2 - Hwy 126				X,Y COORDINATE	
TYPE	LENGTH	SIZE (W X H) & SHAPE	MATERIAL	Road to Bed	INLET/OUTLET TYPE			
Railroad Bridge								
				Top of Road EL				
SPECIAL NOTE (Conditions, Blockage, etc)								
HIGH WATER MARK (Description, Witness, and Date)								
TYPE		CULVERT TYPE	MATERIAL	Road to Bed	INLET/OUTLET TYPE			
Bridge		Number of Barrels	RCP (Reinforced Concrete Pipe)	Height from Top of Road to Invert	Headwall			
Span Bridge		2	CMP (Corrugated Metal Pipe)		Wingwalls Type 0°, 45°, 90°			
Pier Shape		1) Circular	Bitmus Coated	Top of Road EL	Projecting			
Culvert — dbl box		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	RC					

Pier Shape

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

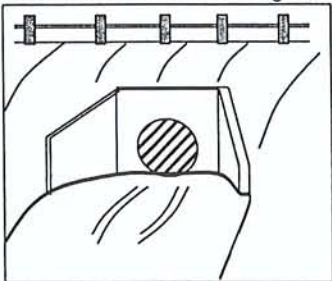


Types (Shape) of Culvert

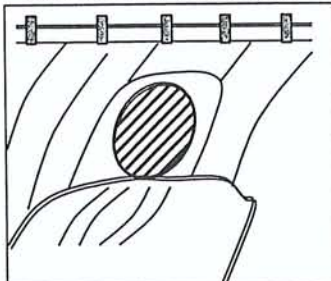
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|-------------|------------------|---------------|
| | | |
| 1) Circular | 2) Rectangle | 3) Elliptical |
| | | |
| 4) Con/Span | 5) Elevated Arch | 6) Pipe Arch |
| 7) Other | | |

Inlet/Outlet Type

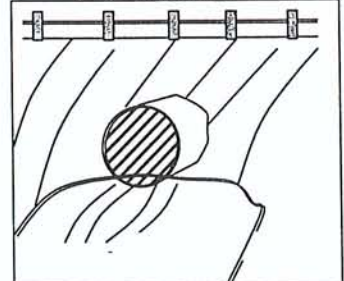
Culvert with Headwall & Wingwalls



Mitered to Conform to Slope



Projecting from Fill

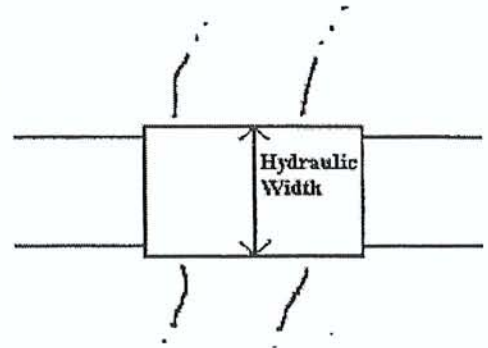
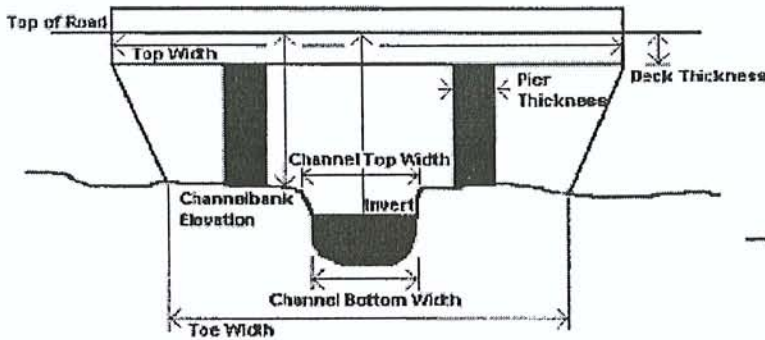


CHANNEL INFORMATION

ROAD TO BANK	CHANNEL TOP WIDTH	CHANNEL BOTTOM WIDTH

BRIDGE INFORMATION

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



< Photo List >

BRD 2 #42 ~ #44

Name	Description	PHOTOS
ds trees	trees cattails	ds of culvert under Hwy 126 is a concrete drop crossing for the frontage road. conc drop has a grate & subdrain
ds		conc. sets ds a mild drop compared to ds earlier channel through on dg field

ADDITIONAL CHANNEL INFORMATION

d/s - eq.

Land Use

cleared

Vegetative Cover

sand

Bed Material

d/s clear eq channel, some growth in bed, very shallow

General Channel Condition

d/s 1-2' tall banks, earthen

Banks

d/s eq, cleared

Overbanks

d/s = eq field

us = eq build R
green houses L

another granite road and culvert under 1/2

STRUCTURE SURVEY TEMPLATE

				DATE	3-4-08
ROAD NAME		N. Frontage Rd, parallel to Hwy 126 → Faulkner Rd		COUNTY	
STREAM NAME		Biggs drain		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)		sloping, conc lined inlet, pipe crosses above soffit			
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		2	CMP (Corrugated Metal Pipe)		Wingwalls Type 0°, 45°, 90°
Pier Shape		1) Circular	Bitumous Coated	Top of Road EL	Projecting
Culvert - dbl box		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

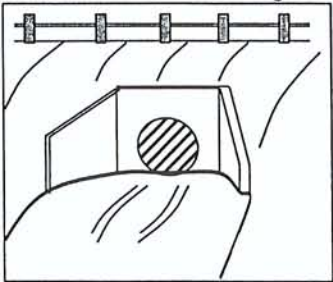


Types (Shape) of Culvert

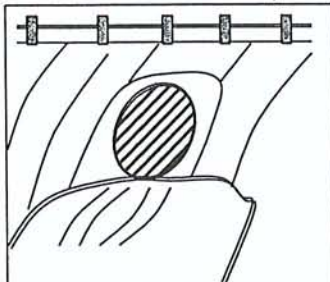
- 1) Circular
- 2) Rectangle
- 3) Elliptical
- 4) Con/Span
- 5) Elevated Arch
- 6) Pipe Arch
- 7) Other

Inlet/Outlet Type

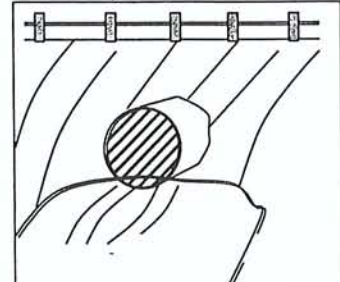
Culvert with Headwall & Wingwalls



Mitered to Conform to Slope



Projecting from Fill

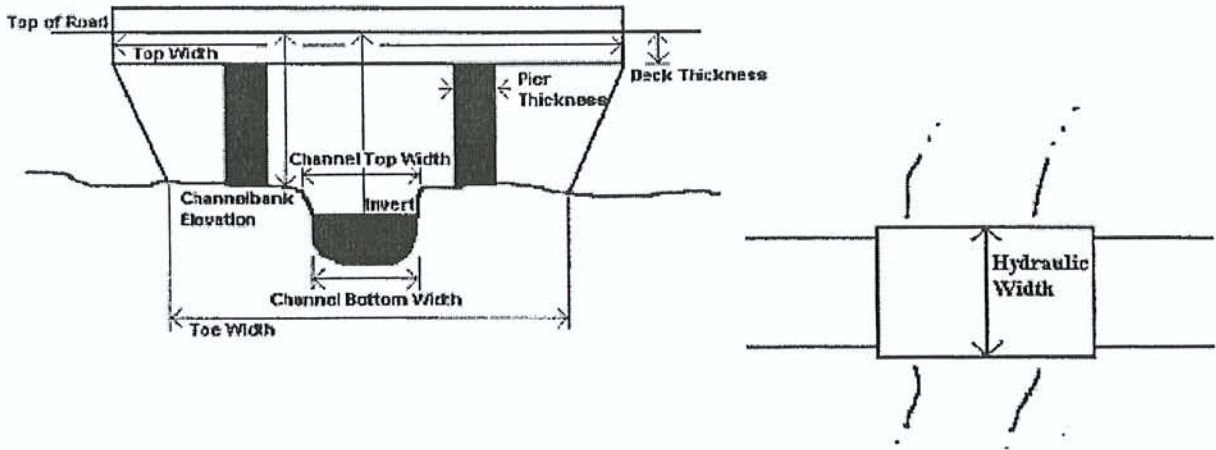


CHANNEL INFORMATION

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
		<p>< Photo List ></p> <p>BRD3 #45 ~ #46</p>
U/S	<p>pile + wood</p> <p>grouted rock</p>	

ADDITIONAL CHANNEL INFORMATION

1/3 = greenhouses L, 2/3 field (celery) right

Land Use

open 2/3

Vegetative Cover

sand

Bed Material

1/3 channel
prismatic ~4'-5' deep 15-20' wide earthen

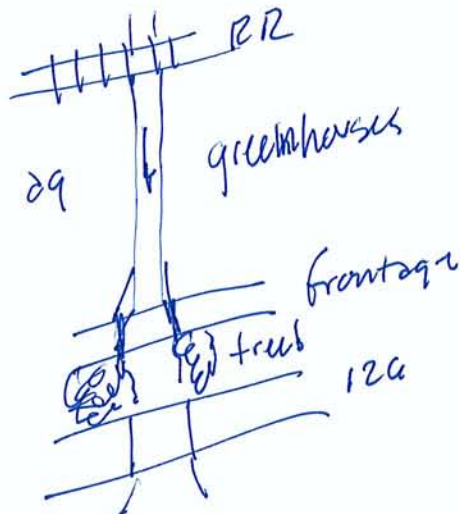
General Channel Condition

1:1 to vertical, earthen + weeds

Banks

flat, fence on R, next to greenhouses

Overbanks

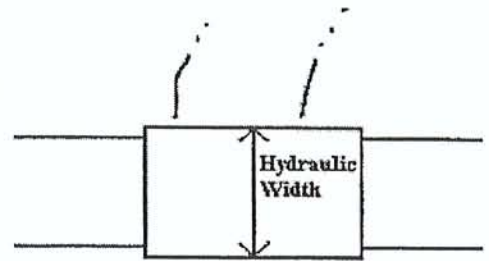
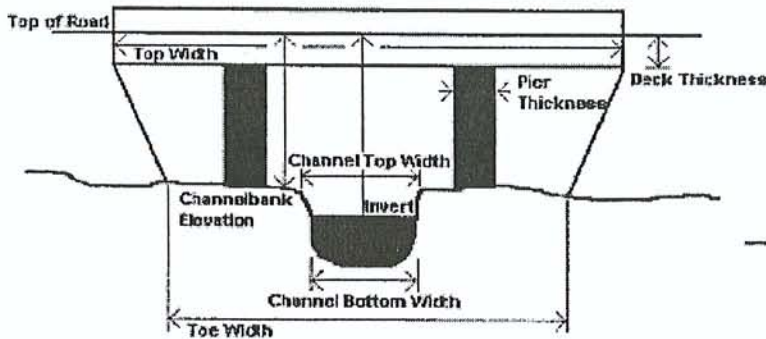


CHANNEL INFORMATION

ROAD TO BANK	CHANNEL TOP WIDTH	CHANNEL BOTTOM WIDTH

BRIDGE INFORMATION

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



pipe at invert level ~1' above
at top of pipe

Name	Description	PHOTOS
d/s	Sheet piers ~10' ~10'	<p>Sheet piers ~10' ~10'</p> <p>pipe ~2.5' above invert</p>

< Photo List >
BRD4 #47 ~ #51

ADDITIONAL CHANNEL INFORMATION

D/S greenhouses L, 29 field r

1/4 cleared orchard L, lemon orchard r, row of pines along R bank

Land Use

1/4 pines on L bank

Vegetative Cover

sand, some rocks D/S

Bed Material

recently cleared, some young cattails

General Channel Condition

erectum, steep

Banks

flat

Overbanks

STRUCTURE SURVEY TEMPLATE

				DATE	
ROAD NAME				Telegraph Rd	
STREAM NAME				Briggs drain	
STRUCTURE #				5	
TYPE				X,Y COORDINATE	
LENGTH		SIZE (W X H) & SHAPE		MATERIAL	
Railroad Bridge				Road to Bed	
				Top of Road EL	
SPECIAL NOTE (Conditions, Blockage, etc)		culvert angles through road			
HIGH WATER MARK (Description, Witness, and Date)					
TYPE		CULVERT TYPE		MATERIAL	
Bridge Span Bridge Pier Shape Culvert <i>single box</i> Dam Spillway Riser Barrel Outlet		Number of Barrels <i>1</i> 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

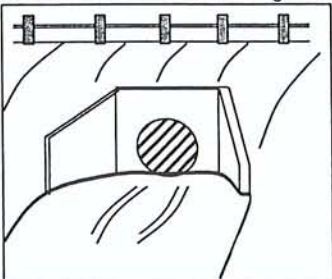


Types (Shape) of Culvert

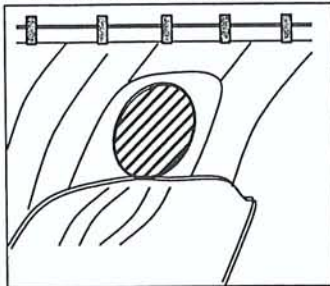
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| | | |
| 1) Circular | 2) Rectangle | 3) Elliptical |
| | | |
| 4) Con/Span | 5) Elevated Arch | 6) Pipe Arch |
| 7) Other | | |

Inlet/Outlet Type

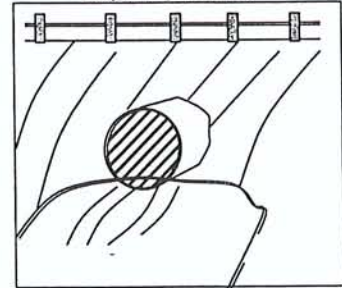
Culvert with Headwall & Wingwalls



Mitered to Conform to Slope



Projecting from Fill

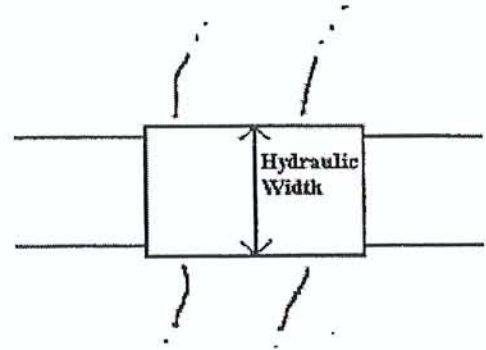
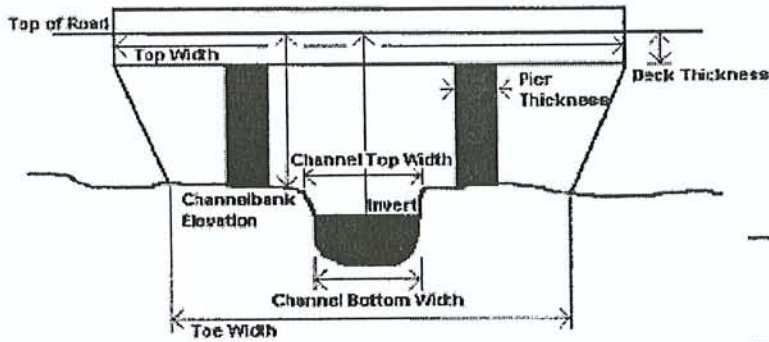


CHANNEL INFORMATION

ROAD TO BANK	CHANNEL TOP WIDTH	CHANNEL BOTTOM WIDTH

BRIDGE INFORMATION

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



Name	Description	PHOTOS
	< Photo List >	
	BRD5 #52 ~ #55	

ADDITIONAL CHANNEL INFORMATION



Land Use

cleared channel

Vegetative Cover

gravel + sand

Bed Material

Combo of bank treatments $\frac{1}{2}$
 R bank = riprap near crossing
 changes to pole/wire $\frac{1}{2}$

rough
prismatic

General Channel Condition

rock size $\sim 2:1$
 earthen $\sim 1:1$

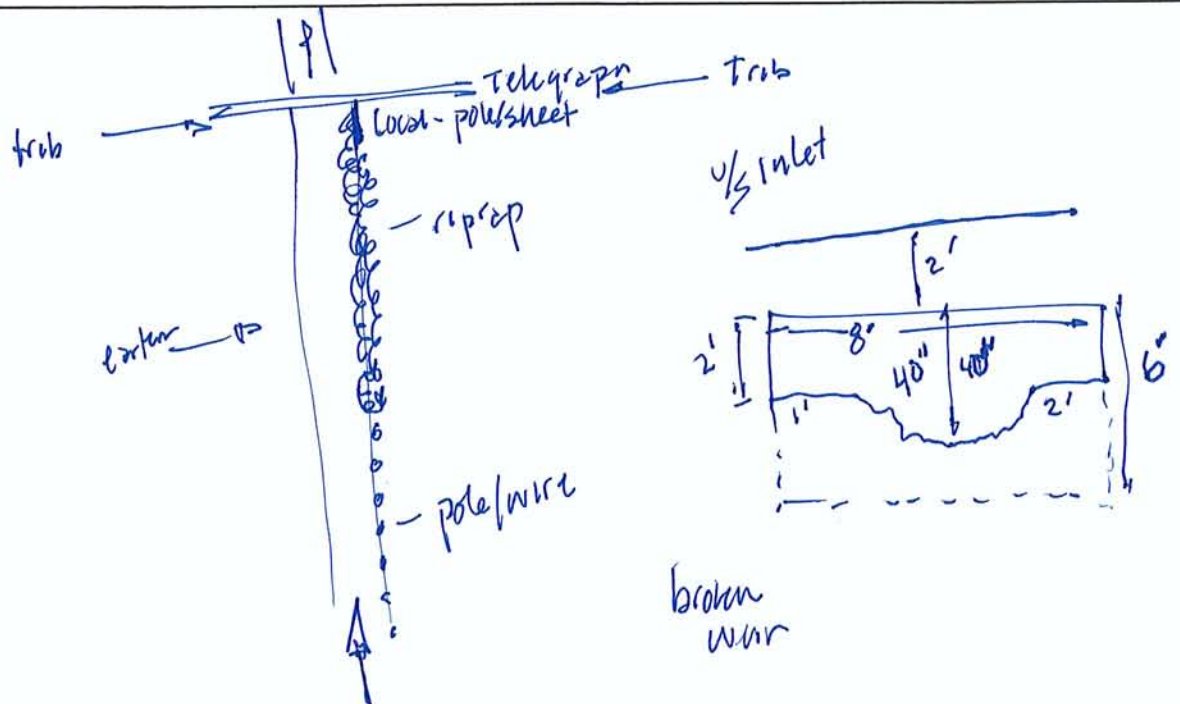
pole/wire = vertical

D/S recently cleared
 less prismatic ..

Banks

$\frac{1}{2}$ = orchards - flat
 $\frac{d}{s}$ = combo - flat

Overbanks



STRUCTURE SURVEY TEMPLATE







					DATE	3-4-06		
ROAD NAME				Santa Paula		COUNTY		
STREAM NAME				Pezigas Drain..		PHOTO ID #		
STRUCTURE #			6 - 1/2 end of model..				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)			reach D/S is combination conc lined / pipe / extm overflow / bricks / conc 5' a pipe return point					
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	CMP (Corrugated Metal Pipe)		Top of Road EL	Wingwalls Type 0°, 45°, 90°		
Pier Shape		1) Circular	Bitmus Coated			Projecting		
<u>Culvert</u>		2) Rectangle (Span X Rise) 6' 2'	Steel		Flush with Slope			
Dam		3) Elliptical	Timber		MES (Mitered End Section)			
Spillway		4) Con/Span	Ductile		FES (Flared End Section)			
Riser Barrel		5) Elevated Arch	Clay	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

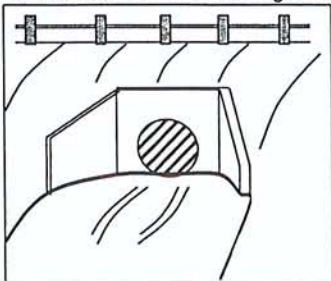


Types (Shape) of Culvert

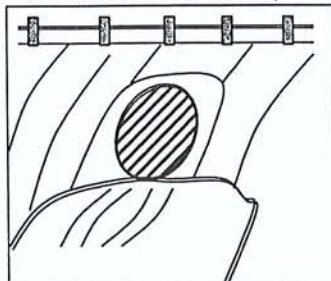
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 1) Circular
- 
 2) Rectangle
- 
 3) Elliptical
- 
 4) Con/Span
- 
 5) Elevated Arch
- 
 6) Pipe Arch
- 7) Other

Inlet/Outlet Type

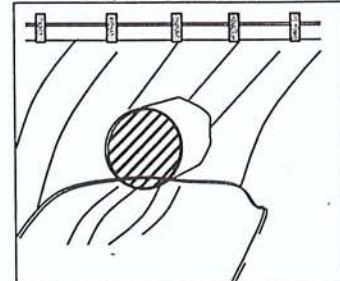
Culvert with Headwall & Wingwalls



Mitered to Conform to Slope



Projecting from Fill

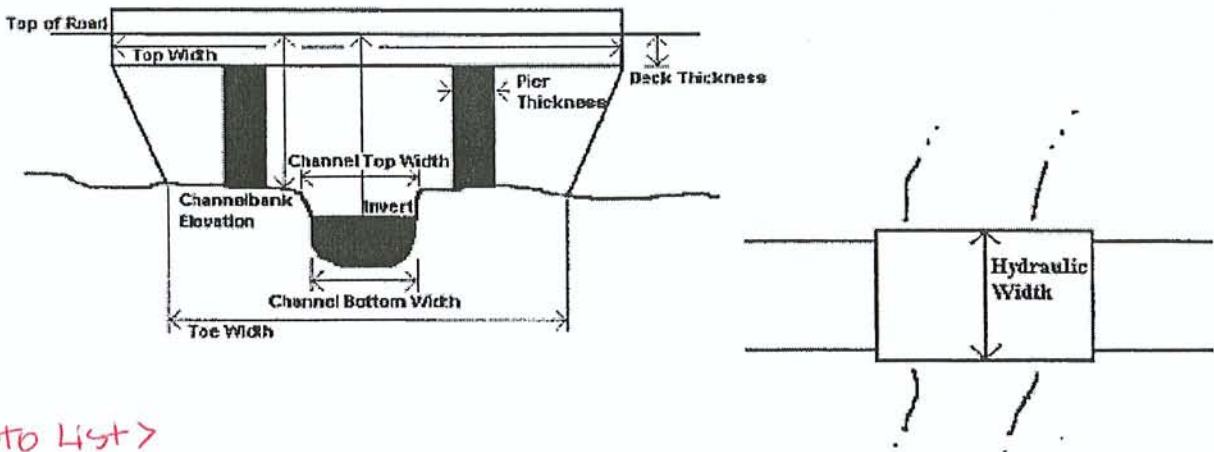


CHANNEL INFORMATION

ROAD TO BANK	CHANNEL TOP WIDTH	CHANNEL BOTTOM WIDTH

BRIDGE INFORMATION

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



< Photo List >

BRDG #56 ~ #60

Name	Description	PHOTOS
<p>Q</p> <p>Santa Paula</p> <p>2' H x 6' W box</p> <p>Conc lined channel</p> <p>overflow</p> <p>36" pipe</p>	<p>Santa Paula</p> <p>36" pipe</p> <p>overflow</p> <p>intermittent "grade controls" of broken concrete</p> <p>odd conc path</p> <p>broken concrete</p> <p>Pole + wire</p>	<p>Flow</p> <p>Santa Paula</p> <p>Flow</p> <p>36" pipe</p> <p>overflow</p> <p>intermittent "grade controls" of broken concrete</p> <p>odd conc path</p> <p>broken concrete</p> <p>Pole + wire</p>

ADDITIONAL CHANNEL INFORMATION

orchard

Land Use

Vegetative Cover

sand, gravel, broken concrete

Bed Material

basically
straight, combo bank protection

General Channel Condition

earth, ^{pole} wood / broken concrete,

Banks

orchard..

Overbanks
