STRUCTURE SURVEY TEMPLATE

				DATE	3-6-08
ROAD NAME	Hwy 126			COUNTY	
STREAM NAME	Rice Ck.			PHOTO ID #	
STRUCTURE #	1		X,Y COORDINATE		

TYPE	LENGTH	SIZE (W X H) & SHAPE	MATERIAL	Road to Bed	INLET/OUTLET TYPE
Railroad Bridge				Top of Road EL	

SPECIAL NOTE (Conditions, Blockage, etc)	Soffit has ~12' clearance above avg bottom el
HIGH WATER MARK (Description, Witness, and Date)	need bridge plans for elevs. soffit + concrete = very thick.

TYPE		CULVERT TYPE	MATERIAL	Road to Bed	INLET/OUTLET TYPE
(Bridge) – width · span		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	16 piers aligned to flow	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	~22" wide (skew face)	6) Pipe Arch	Masonry Rock		
		7) Other			

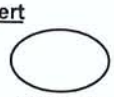
Pier Shape

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

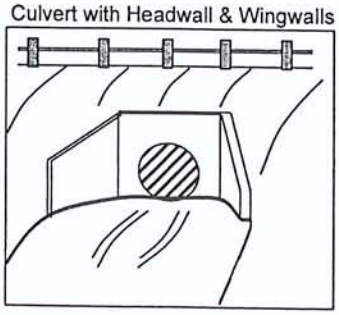

5) Elevated Arch


6) Pipe Arch

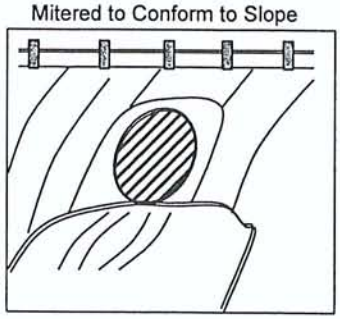
7) Other

Inlet/Outlet Type

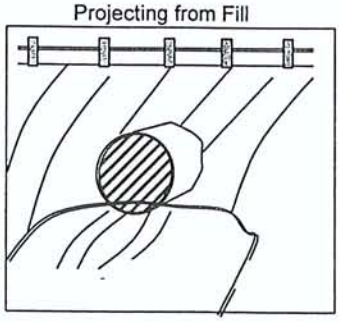
Culvert with Headwall & Wingwalls



Mitered to Conform to Slope



Projecting from Fill

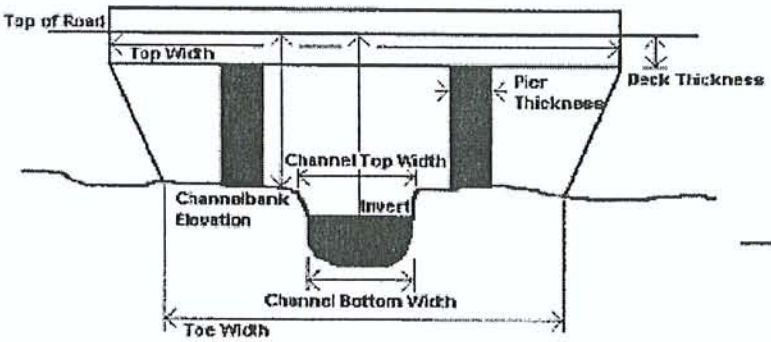


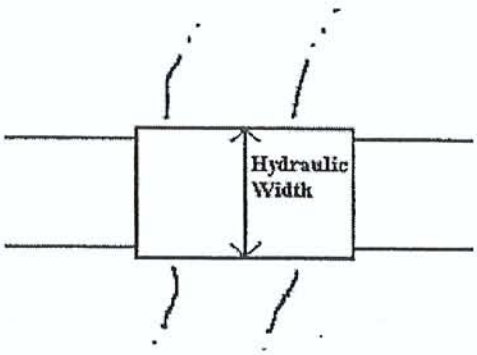
CHANNEL INFORMATION

ROAD TO BANK	CHANNEL TOP WIDTH	CHANNEL BOTTOM WIDTH

BRIDGE INFORMATION

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





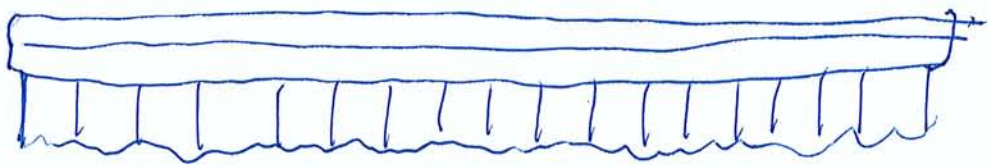
<Photo List>
PC1 #222 ~ #227

PHOTOS

Name

Description

(16)
many piers, very wide bridge



H

perpendicular spacing ~ 45'

ADDITIONAL CHANNEL INFORMATION

open / ag / orchard

Land Use

scattered trees

Vegetative Cover

sand, gravel, cobbles

Bed Material

irregular, wide, braiding

General Channel Condition

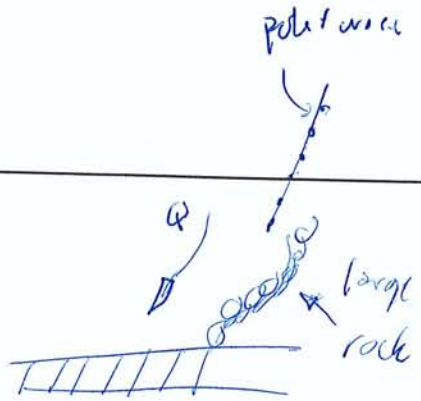
low..

Banks

flat.

Overbanks

some large bars of deposition..
+ debris..



large boulders + grout at U/S wings.

STRUCTURE SURVEY TEMPLATE

				DATE	3.6.08
ROAD NAME	Old Center Rd (closed)			COUNTY	
STREAM NAME	Piru Creek			PHOTO ID #	
STRUCTURE #	2		X,Y COORDINATE		
TYPE	LENGTH	SIZE (W X H) & SHAPE	MATERIAL	Road to Bed	INLET/OUTLET TYPE
Railroad Bridge				Top of Road EL	
SPECIAL NOTE (Conditions, Blockage, etc)	Suspension + piers (2)				
HIGH WATER MARK (Description, Witness, and Date)	need plans — pipe below soffit level.				

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)

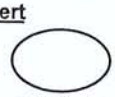
Pier Shape

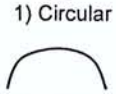
1) Circular pier
2) Twin-Cylinder piers
3) Elongated pier
4) Triangular nose
5) Square nose

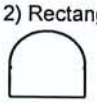
Types (Shape) of Culvert

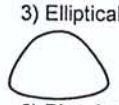

1) Circular


2) Rectangle


3) Elliptical


4) Con/Span

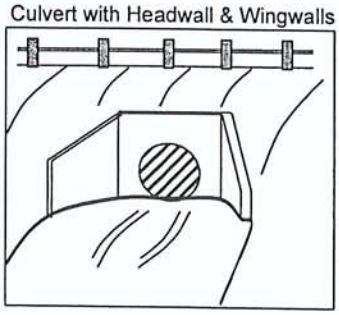

5) Elevated Arch


6) Pipe Arch

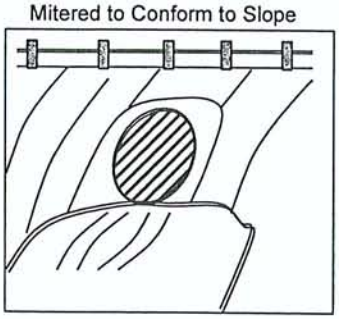
7) Other

Inlet/Outlet Type

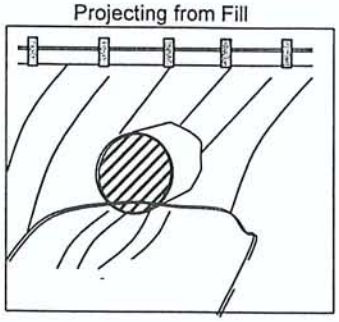
Culvert with Headwall & Wingwalls



Mitered to Conform to Slope



Projecting from Fill

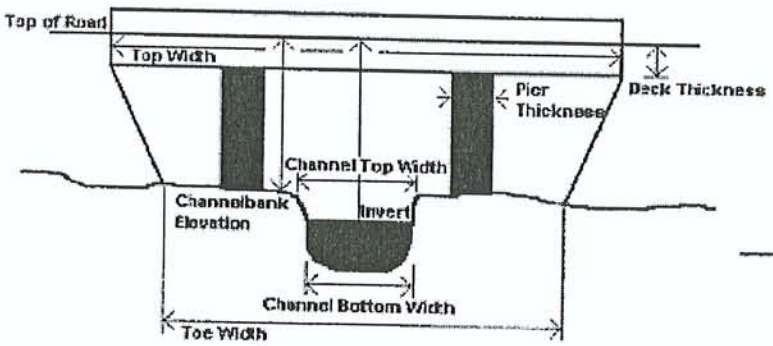


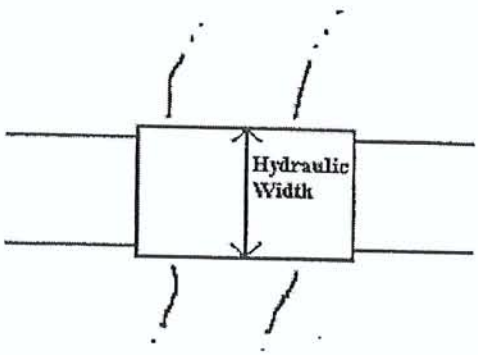
CHANNEL INFORMATION

ROAD TO BANK	CHANNEL TOP WIDTH	CHANNEL BOTTOM WIDTH

BRIDGE INFORMATION

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





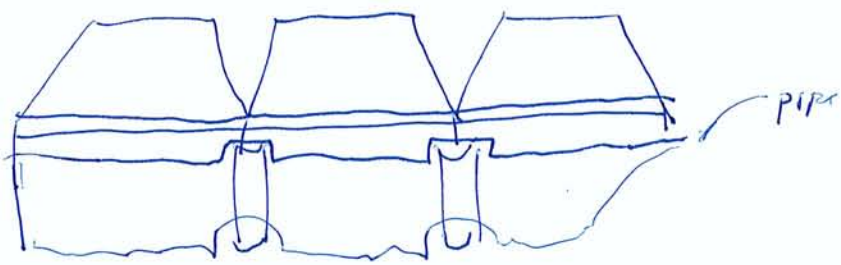
PHOTOS

Name

Description

<Photo List>

PC2 #228 ~ #231



ADDITIONAL CHANNEL INFORMATION

orchard + park + residential + open

Land Use

not much

Vegetative Cover

sand, gravel, cobbles

Bed Material

irregular, wide, rough, small brush

General Channel Condition

steep, low, earthen

Banks

mixed -- residential D/s L, orchard D/s R

Overbanks

gw recharge in channel?
graded to form pool on L side

STRUCTURE SURVEY TEMPLATE

				DATE	3.6.08
ROAD NAME	New Center Rd			COUNTY	
STREAM NAME	Piru Ck			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)	piers at skew to bridge deck				
HIGH WATER MARK (Description, Witness, and Date)	immed U/S of old Center Rd				

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)	4 piers		CMP (Corrugated Metal Pipe)		Wingwalls Type 0°, 45°, 90°
Pier Shape	~15"?	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			

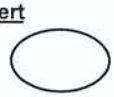
Pier Shape

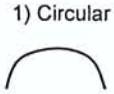
1) Circular pier
2) Twin-Cylinder piers
3) Elongated pier
4) Triangular nose
5) Square nose

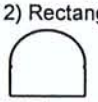
Types (Shape) of Culvert

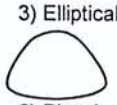

1) Circular


2) Rectangle


3) Elliptical


4) Con/Span

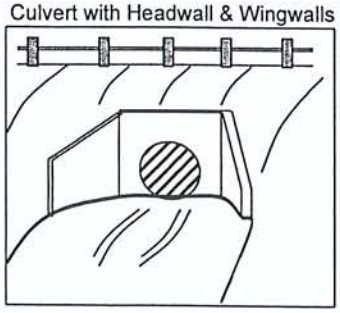

5) Elevated Arch


6) Pipe Arch

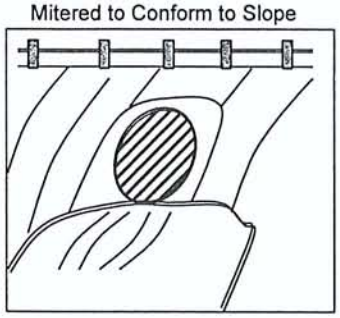
7) Other

Inlet/Outlet Type

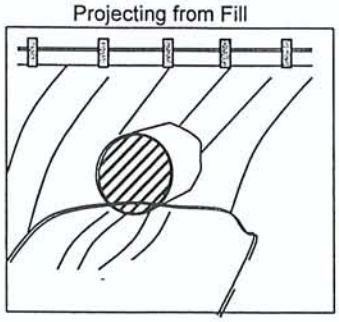
Culvert with Headwall & Wingwalls



Mitered to Conform to Slope



Projecting from Fill

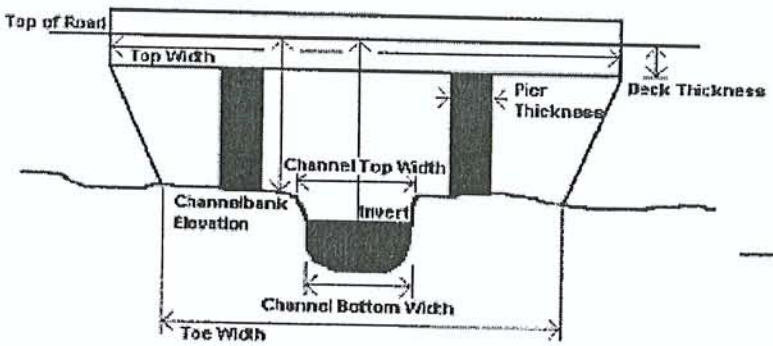


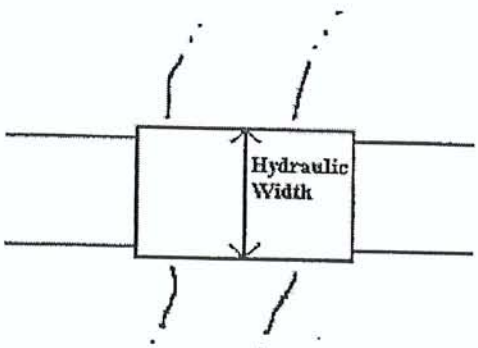
CHANNEL INFORMATION

ROAD TO BANK	CHANNEL TOP WIDTH	CHANNEL BOTTOM WIDTH

BRIDGE INFORMATION

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





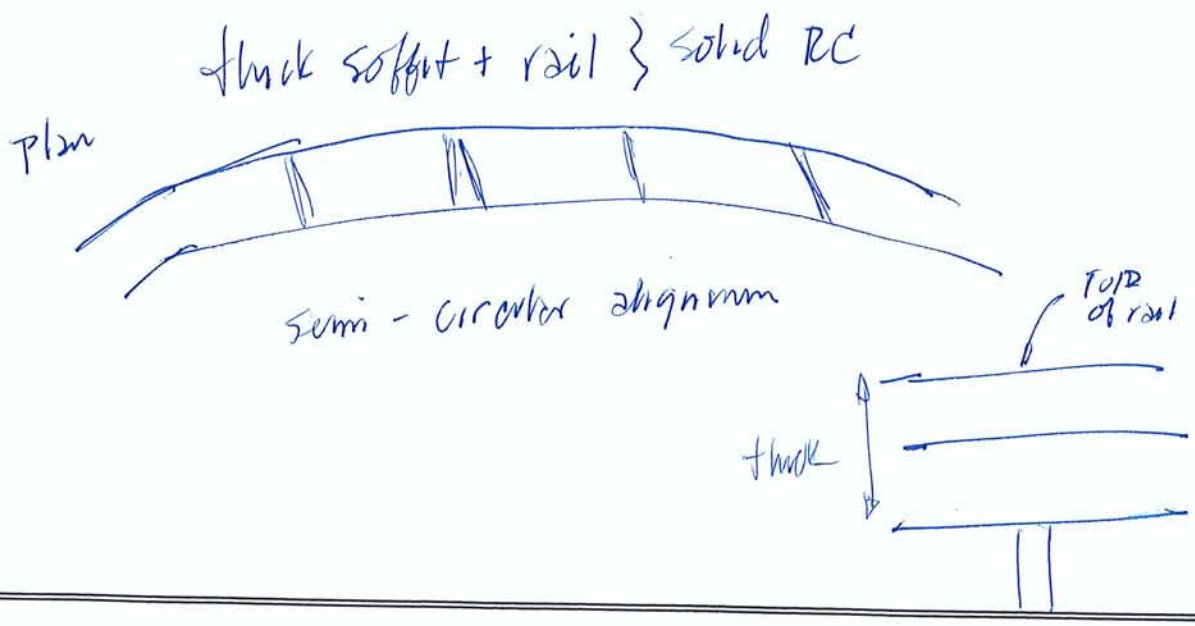
< Photo List >

PC3 #232 ~ #233

PHOTOS

Name

Description



ADDITIONAL CHANNEL INFORMATION

Land Use — See Xing #2 -- this is inland U/S

Vegetative Cover

Bed Material

General Channel Condition

Banks — grouted rock lower on R bank U/S; grouted rock below R bank R side of 'pool'

Overbanks

STRUCTURE SURVEY TEMPLATE

				DATE	3.6.08
ROAD NAME	RR			COUNTY	
STREAM NAME	Piru Creek			PHOTO ID #	
STRUCTURE #	4		X,Y COORDINATE		
TYPE	LENGTH	SIZE (W X H) & SHAPE	MATERIAL	Road to Bed	INLET/OUTLET TYPE
Railroad Bridge				Top of Road EL	
SPECIAL NOTE (Conditions, Blockage, etc)	Suspension + 1 pier				
HIGH WATER MARK (Description, Witness, and Date)	looks like pier is not aligned with flow - bridge is at perp. to bridge alignment skew				

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			

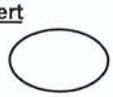
Pier Shape

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

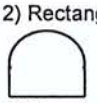
Types (Shape) of Culvert

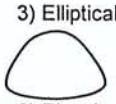

1) Circular


2) Rectangle


3) Elliptical


4) Con/Span

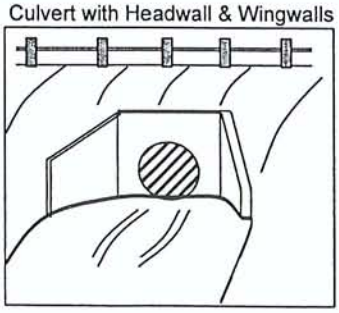

5) Elevated Arch


6) Pipe Arch

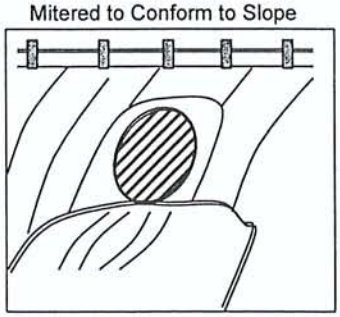
7) Other

Inlet/Outlet Type

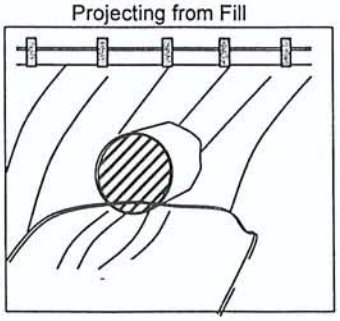
Culvert with Headwall & Wingwalls



Mitered to Conform to Slope



Projecting from Fill

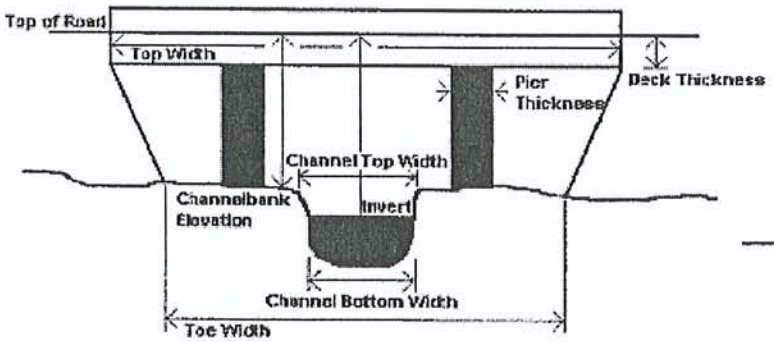


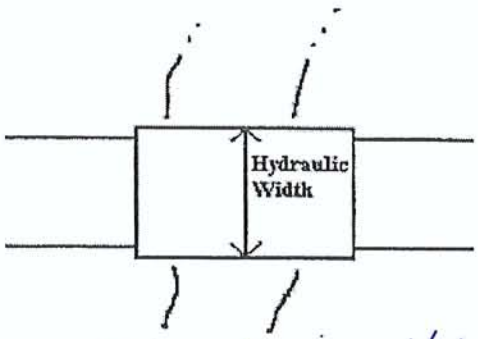
CHANNEL INFORMATION

ROAD TO BANK	CHANNEL TOP WIDTH	CHANNEL BOTTOM WIDTH

BRIDGE INFORMATION

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





trestle is stamped '1902'

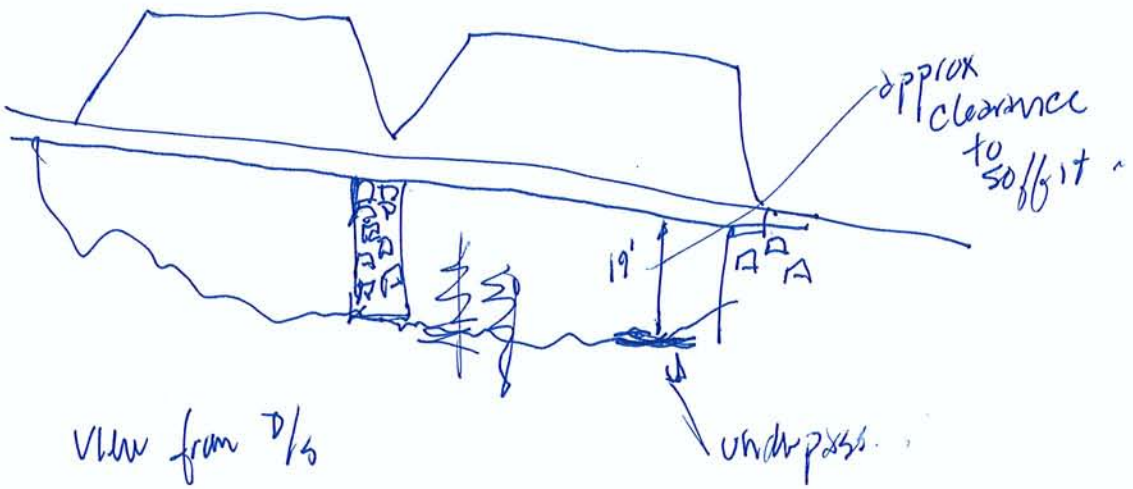
note: @ U/S side, ∂ ~12" pipe hangs ~ 1' below soffit

i.e. bottom of pipe ~ 2' below soffit..

PHOTOS

Name <Photo List> **Description**

PC4 #234 ~ #235



ADDITIONAL CHANNEL INFORMATION

Land Use: park on R side d/s, residential R. u/s
cliff on L side

Vegetative Cover: small trees in channel & banks

Bed Material: sand, gravel, cobbles -- d/s pool extens u/s
- cannot see all of bottom

General Channel Condition: brushy sides

Banks: low on R - park - cliff on L

Overbanks: flat R, cliff L

STRUCTURE SURVEY TEMPLATE

				DATE	3.6.08
ROAD NAME	Piru Canyon Rd → Hoiser Canyon Rd			COUNTY	
STREAM NAME	Piru Creek			PHOTO ID #	
STRUCTURE #	5		X,Y COORDINATE		
TYPE	LENGTH	SIZE (W X H) & SHAPE	MATERIAL	Road to Bed	INLET/OUTLET TYPE
Railroad Bridge				Top of Road EL	"BR #417"
SPECIAL NOTE (Conditions, Blockage, etc)	piers skewed – skew crossing RC bridge 2 piers				
HIGH WATER MARK (Description, Witness, and Date)	need plans.. rounded nose				

TYPE	CULVERT TYPE	MATERIAL	Road to Bed	INLET/OUTLET TYPE
Bridge Span Bridge Pier Shape 2 piers 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)

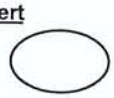
Pier Shape

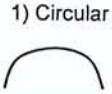
1) Circular pier
2) Twin-Cylinder piers
3) Elongated pier
4) Triangular nose
5) Square nose

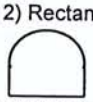
Types (Shape) of Culvert

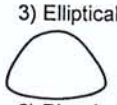

1) Circular


2) Rectangle


3) Elliptical


4) Con/Span

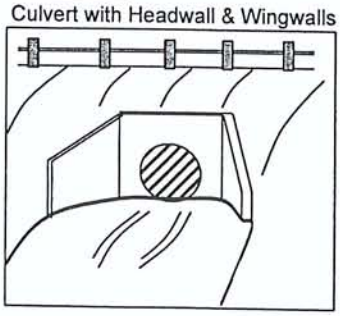

5) Elevated Arch


6) Pipe Arch

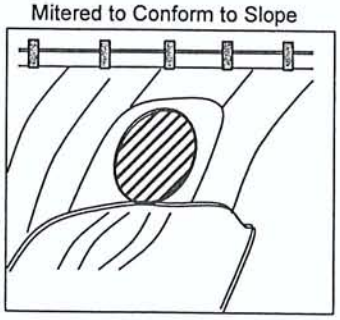
7) Other

Inlet/Outlet Type

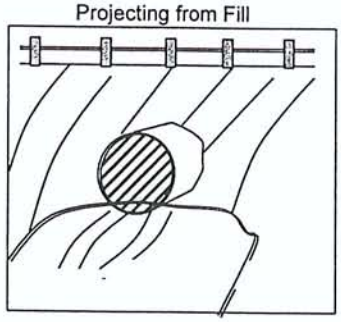
Culvert with Headwall & Wingwalls



Mitered to Conform to Slope



Projecting from Fill

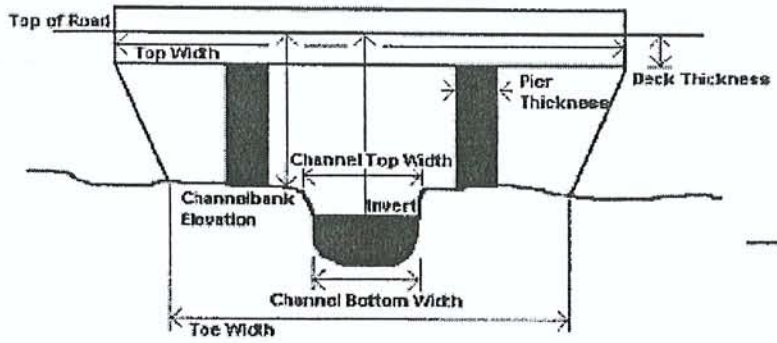


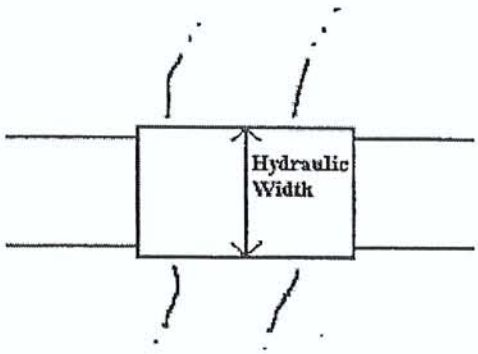
CHANNEL INFORMATION

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

conc rail + thick soffit

short reach of grouted rock on both banks D/S & U/S

pipes U/S @ about soffit level.

<Photo List>

PC5 #236~#239

ADDITIONAL CHANNEL INFORMATION

Land Use: horse ranch, L side + dg
cliffs on R

Vegetative Cover: scattered trees

Bed Material: sand d/s, sand + scattered boulders u/s
failing tall bank u/s R side

General Channel Condition: wide, irregular, some brush

Banks: not well defined d/s some brush..
Cliff on R u/s, Piru Road on L u/s

Overbanks: dg/ on L side
ranch

Some debris on piers..

STRUCTURE SURVEY TEMPLATE

				DATE	3-6-09
ROAD NAME	Piru Cyn Rd → Hoiser Canyon Rd			COUNTY	
STREAM NAME	Piru Creek			PHOTO ID #	
STRUCTURE #	6		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)	6-cell culvert – acts as a drop to d/s channel
HIGH WATER MARK (Description, Witness, and Date)	need plans – cannot access .. ! Rancho Temescal'

TYPE		CULVERT TYPE	MATERIAL	Road to Bed	INLET/OUTLET TYPE
Bridge		Number of Barrels 6	RCP (Reinforced Concrete Pipe)	Height from Top of Road to Invert	Headwall
Span Bridge		1) Circular 13'9" x 12'	CMP (Corrugated Metal Pipe) Bitmus Coated		Wingwalls Type 0°, 45°, 90°
Pier Shape		2) Rectangle (Span X Rise)	Steel		Projecting
Culvert		3) Elliptical	Timber	Top of Road EL	Flush with Slope
Dam		4) Con/Span	Ductile		MES (Mitered End Section)
Spillway		5) Elevated Arch 8" piers (round nose)	Clay	From Topo Map (FT.NGVD) or (FT.NAVD)	FES (Flared End Section)
Riser Barrel		6) Pipe Arch	Masonry Rock		
Outlet		7) Other			

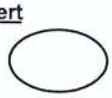
Pier Shape

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

Types (Shape) of Culvert


1) Circular


2) Rectangle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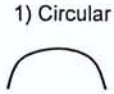
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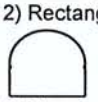
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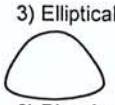
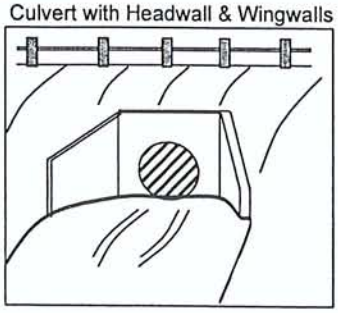

6) Pipe Arch

7) Other

Inlet/Outlet Type

Culvert with Headwall & Wingwalls



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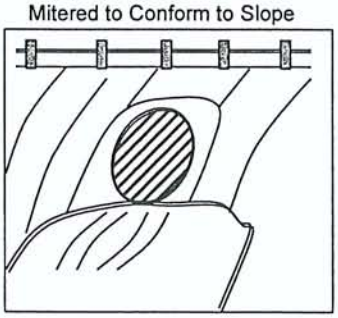
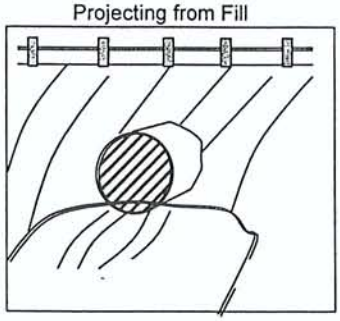


Projecting from Fill



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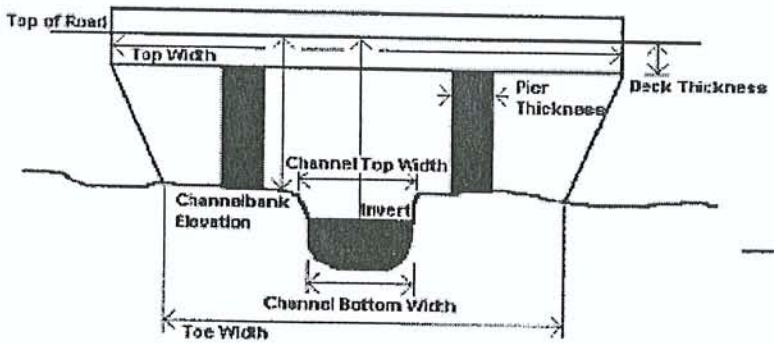

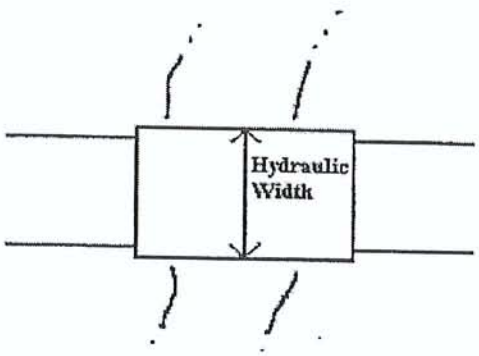

< Photo List >

PC6 #240 ~ #244

PHOTOS

Name	Description
	Some grouted rock @ u/s side, both banks + wing walls also d/s side
	each cell is 13'9" wide, 12' t/h ? 8" round hose piers.

ADDITIONAL CHANNEL INFORMATION

open / natural

Land Use

few trees

Vegetative Cover

cobbles + small boulders u/s
sandy d/s

Bed Material

~~Cob~~ fairly clear, small willows
graded guide berm u/s L

General Channel Condition

d/s - low eastern bank, R side
brushy - L side

Banks

broad L — cliff close by on R

Overbanks

big scour hole / pool d/s
sand bars d/s of trust.