



# Marin County Fire Department Memorandum

Kenneth Massucco Fire Chief

TO: Maureen Cassingham  
FROM: Ken Massucco Fire Chief *Ken Massucco*  
DATE: August 29, 2008  
RE: Mt. Barnabe Access Road

Maureen,

I've include the background information on the Mt. Barnabe emergency road repair, the emergency bid from Lunny Construction and pictures of the slides.

Please let me know if you need any additional information.

08-18-2008  
Page # 1 of 1

Job # 4729  
Pigois Washout Repair  
135 Portola  
Forest Knolls CA

Architect:  
Plan Date:

<i>Item/Cost Code</i>	<i>Amount</i>
<b>4729 Pigois Washout Repair</b>	
1 Mobilization Move in all necessary equipment.	\$1,100.00
2 Culvert & Headwall Place new 18" High Density Polyethylene Pipe and concrete headwall, patch asphalt.	\$6,800.00
3 Earthwork Remove weak soils, excavate fill key, moisture condition fill material, place compacted fills in 8" maximum lifts, compact with vibratory sheepsfoot compactor, rebuild hillside and road shoulder with on-site material, regrade ditch to bottom of gully.	\$9,300.00
4 Rock Lined Ditch Line new channel with 8" to 12" rock, 8' wide on woven fabric.	\$8,800.00
5 Erosion Control Place native grass seed, straw and straw waddles on all disturbed areas.	\$2,400.00
<b>Phase Total:</b>	<b>\$28,400.00</b>
<b>Grand Total:</b>	<b>\$28,400.00</b>

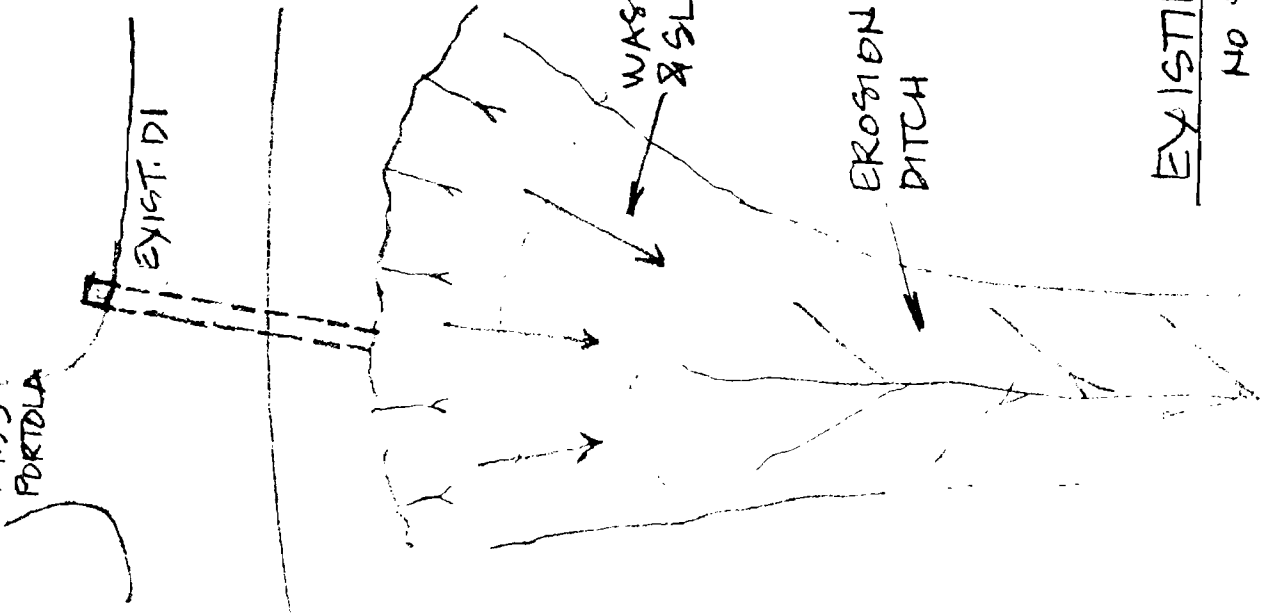
**Notes:**

Water to be supplied by Pigois hydrant.

PIC016 WASHOUT REPAIR

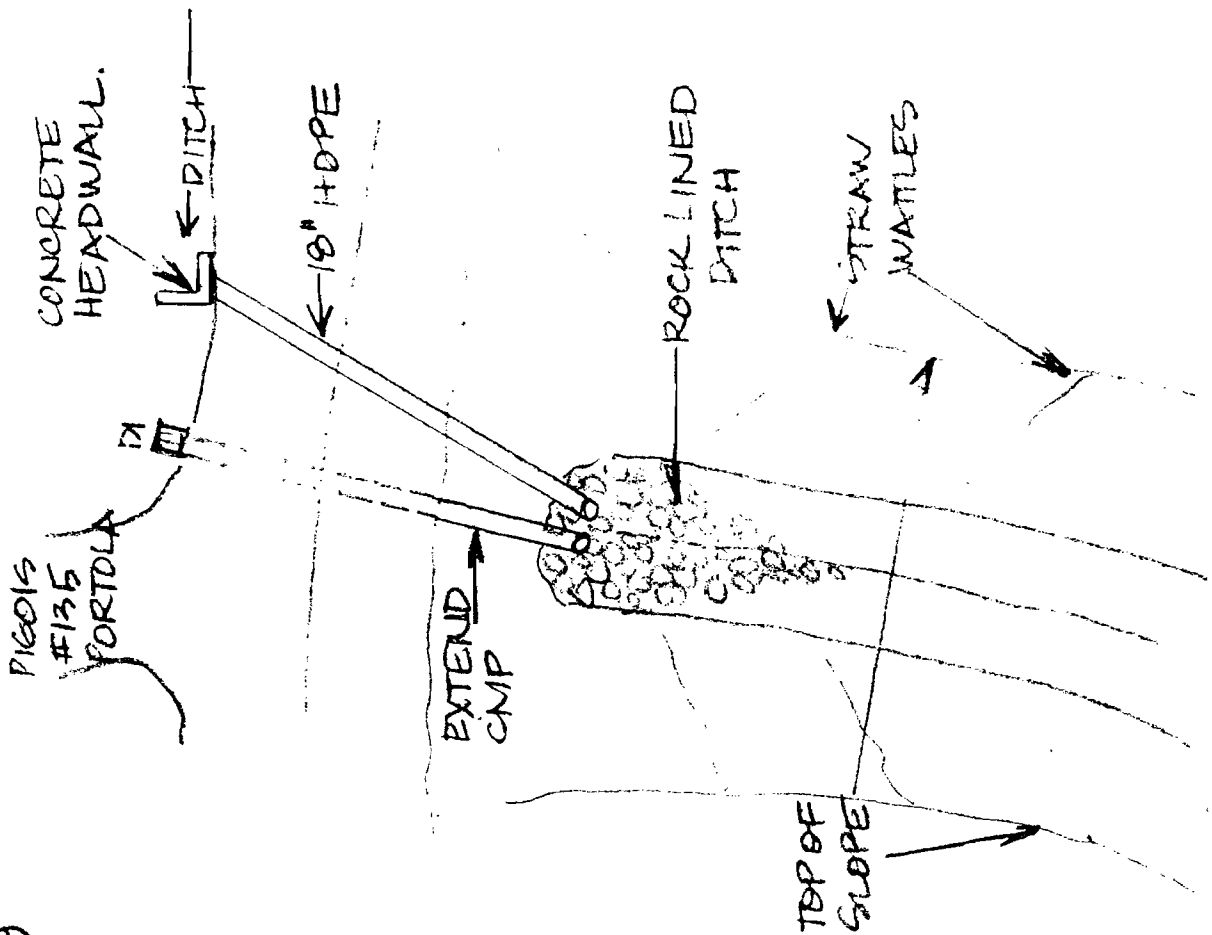
JOB # 4729

PIC016  
#135  
PORTOLA



EXISTING

NO SCALE

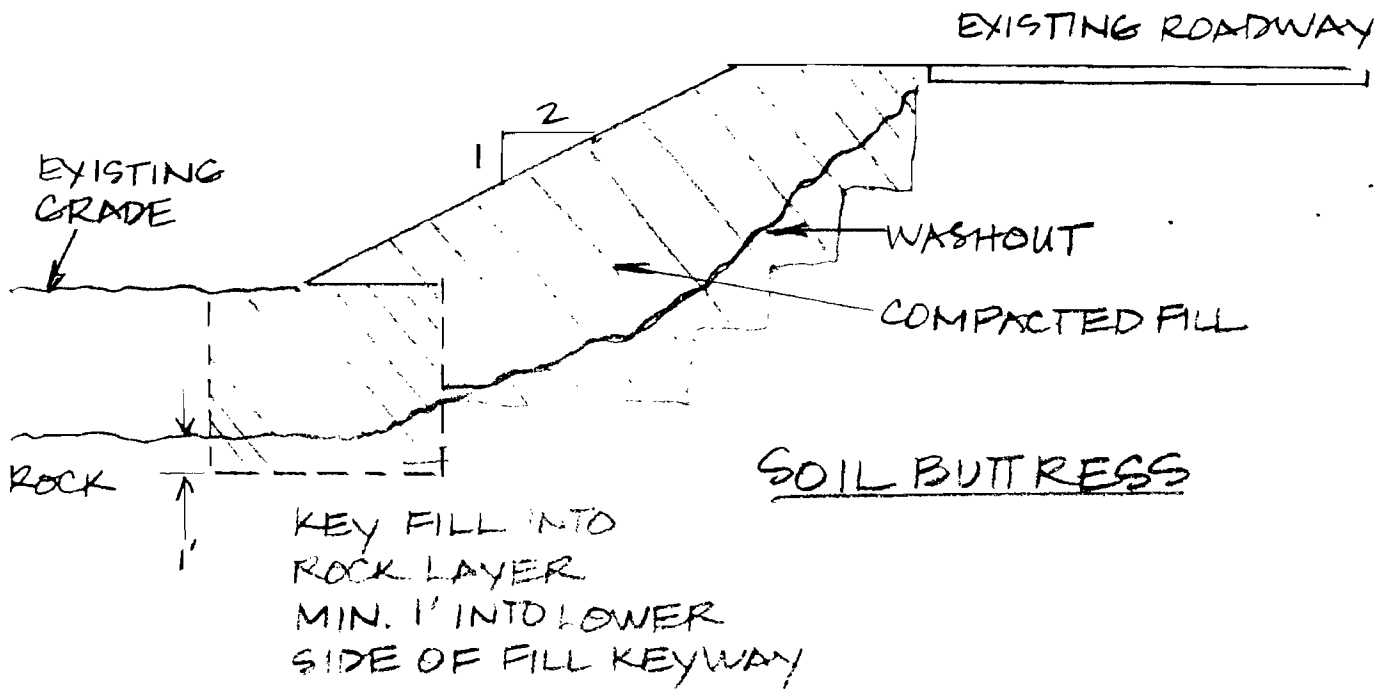
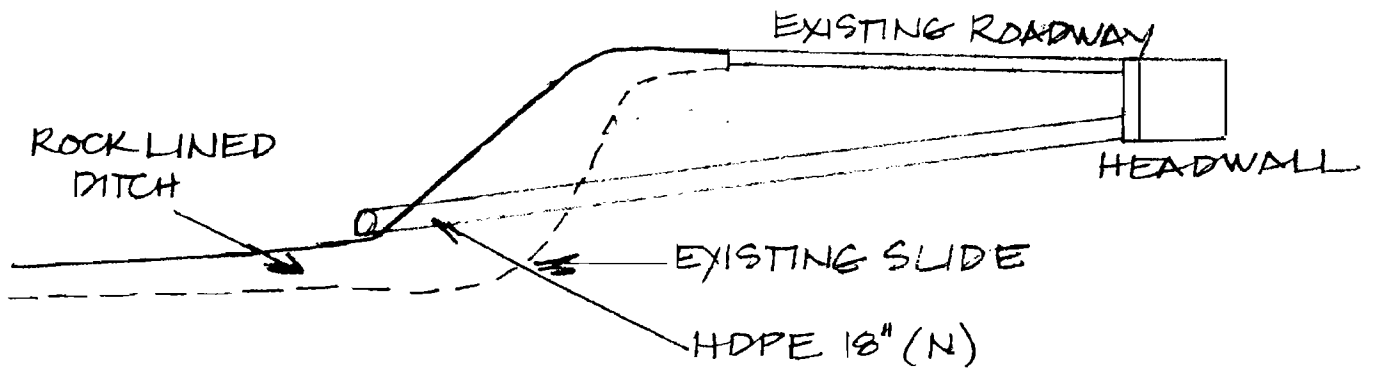
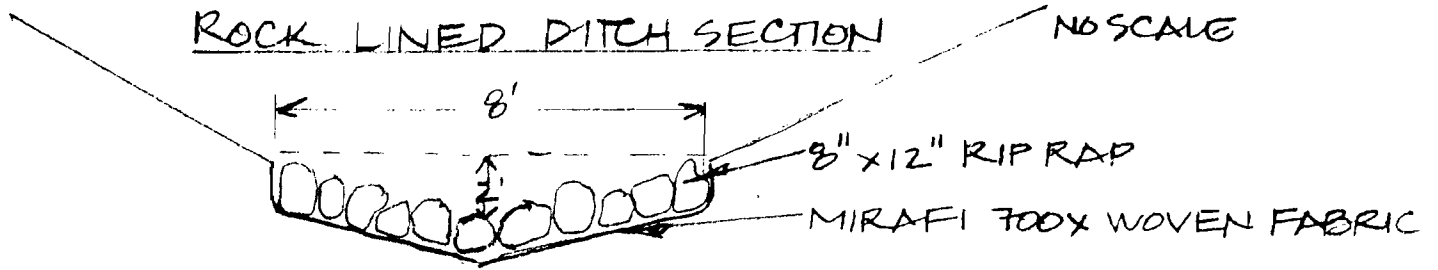


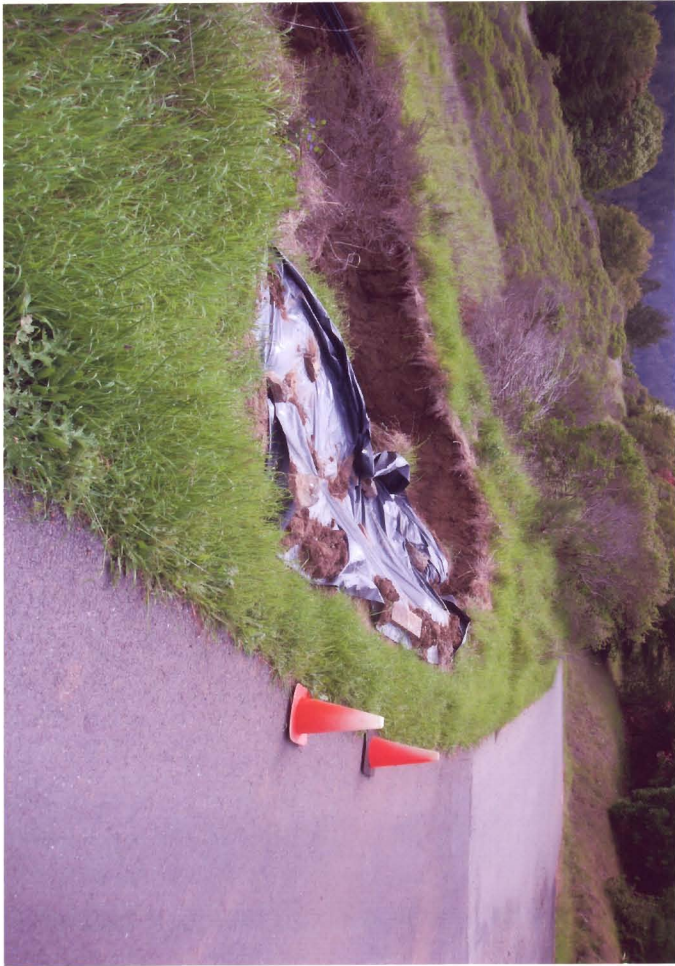
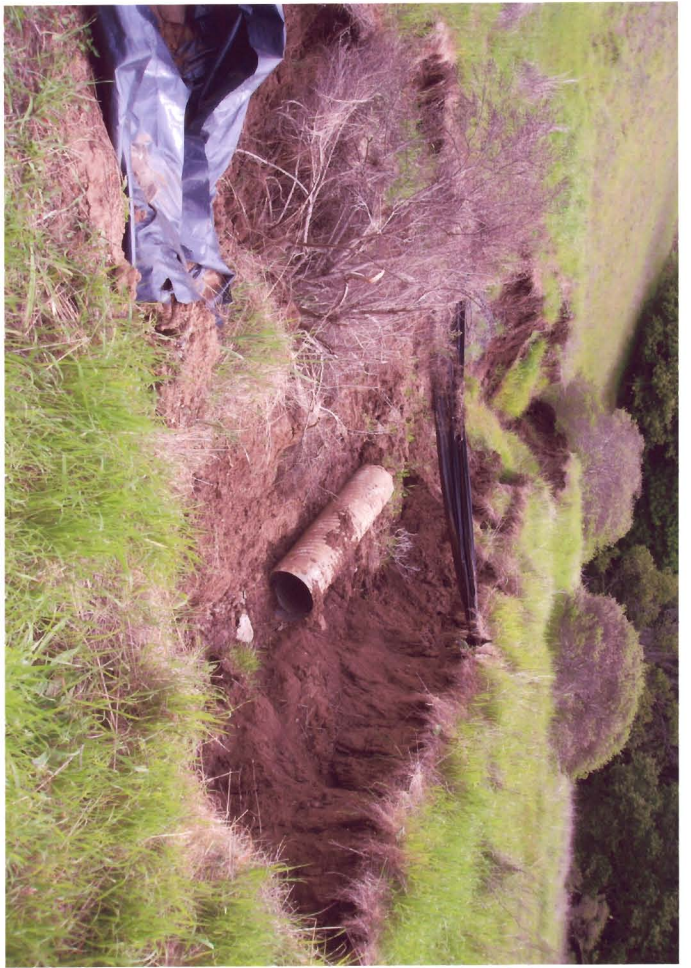
PROPOSED

NO SCALE

PIGOIS WASHOUT REPAIR

Job 4729







# Proposal

08-18-2008  
Page # 1 of 1

Job # 4728  
Stone Culvert Washout  
Portola Road  
Forest Knolls CA

Architect:  
Plan Date:

<i>Item/Cost Code</i>	<i>Amount</i>
<b>4728 Stone Culvert Washout</b>	
1 Repair Washout at Culvert	\$10,700.00
Clear and grub site, place approximately 80 tons of rip rap to protect the slope at culvert outfall, install trash rack in front of existing culvert inlet to reduce the chance of culvert blockage and overflow.	
<b>Phase Total:</b>	<b>\$10,700.00</b>
<b>Grand Total:</b>	<b>\$10,700.00</b>

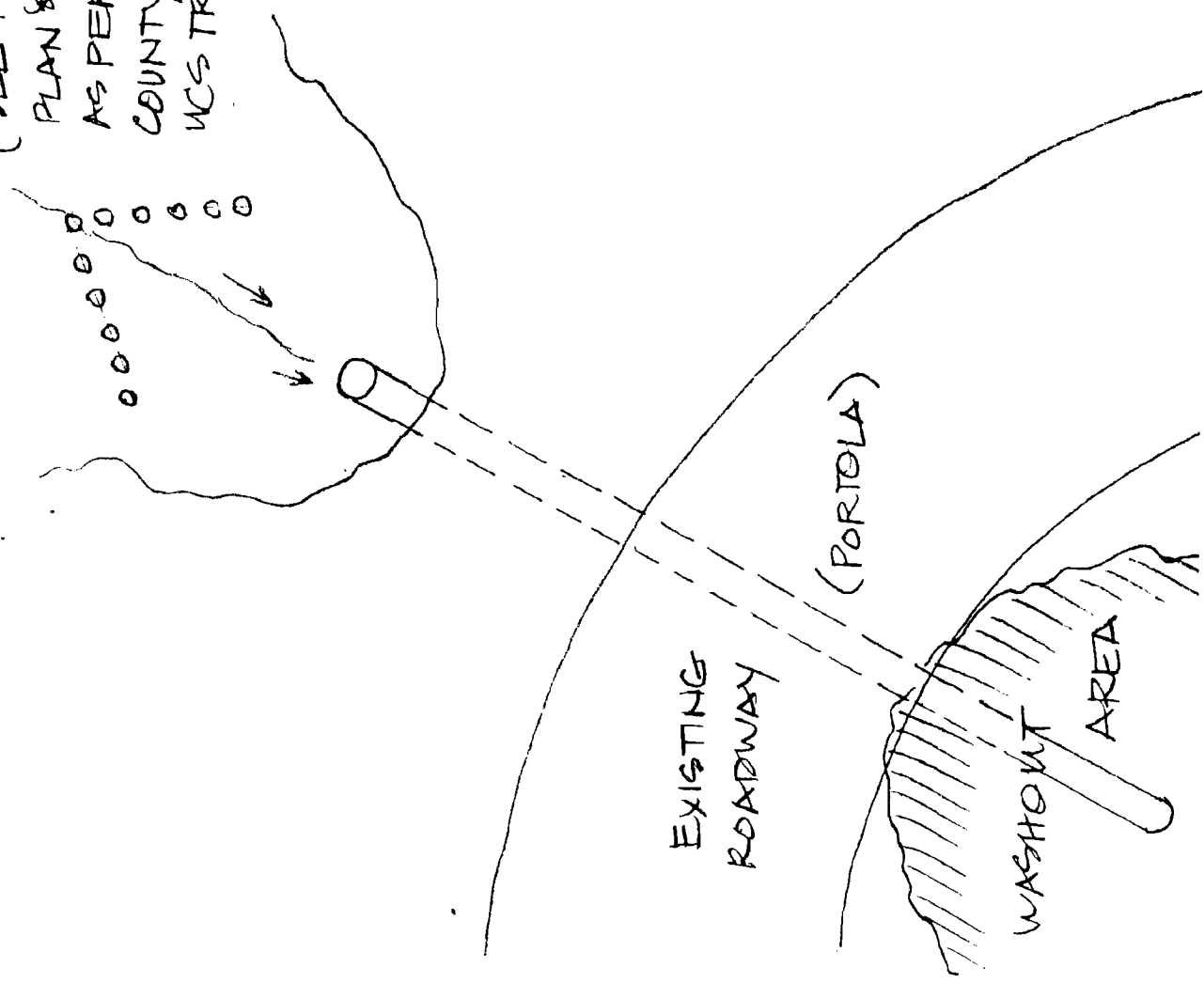
Notes:

STONE CULVERT WASHOUT

JOB # 4728

NO SCALE

TRASH RACK  
(SEE TRASH RACK  
PLAN & SECTION  
AS PER MARIN  
COUNTY TYPE A  
WCS TRASH RACK



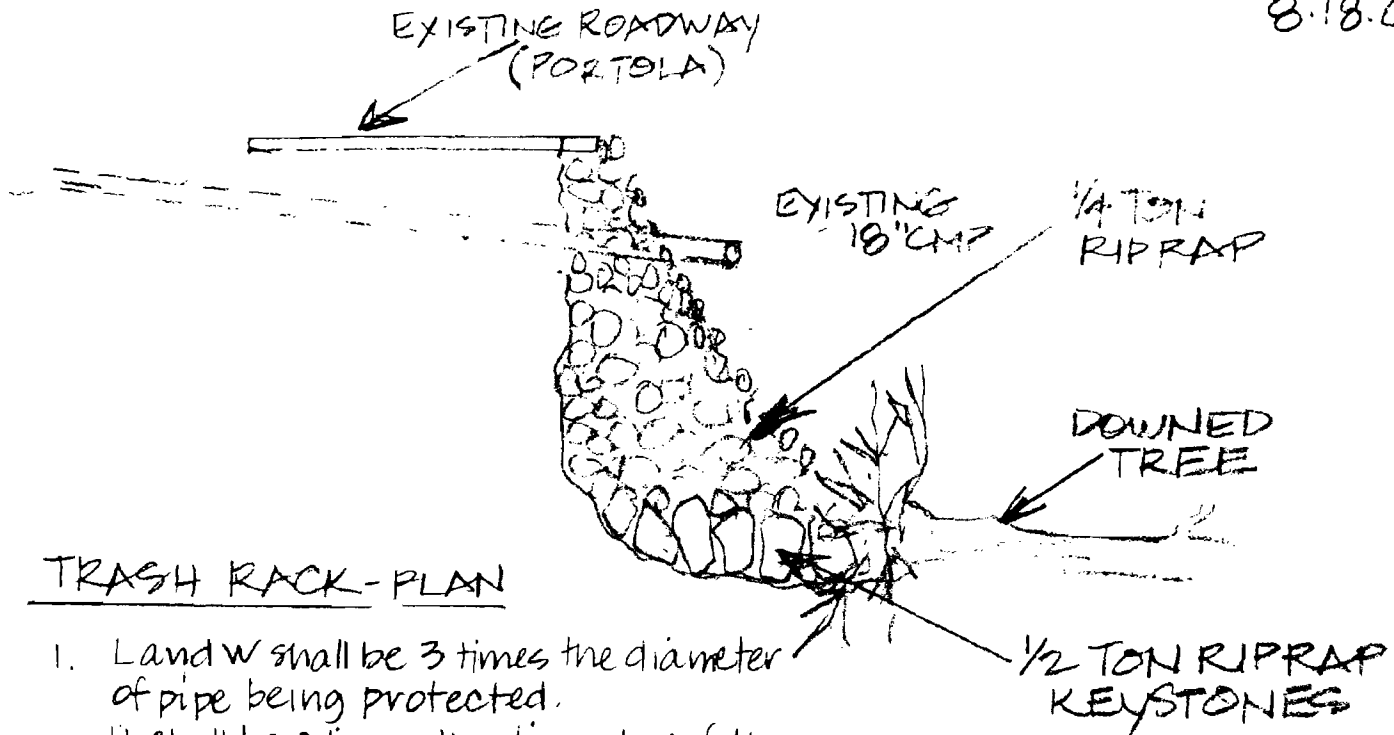
# STONE CULVERT WASHOUT

JOB # 4728

NO SCALE

LUNNY GRADING  
& PAVING

8.18.08



## TRASH RACK - PLAN

1. Land w shall be 3 times the diameter of pipe being protected.
2. H shall be 2 times the diameter of the pipe being protected
3. Pipe is standard weight, concrete is Class B (5 sack) FLOW

## TRASH RACK SECTION

