Grand Valley Drainage District

Colorado Mesa University

Water Center

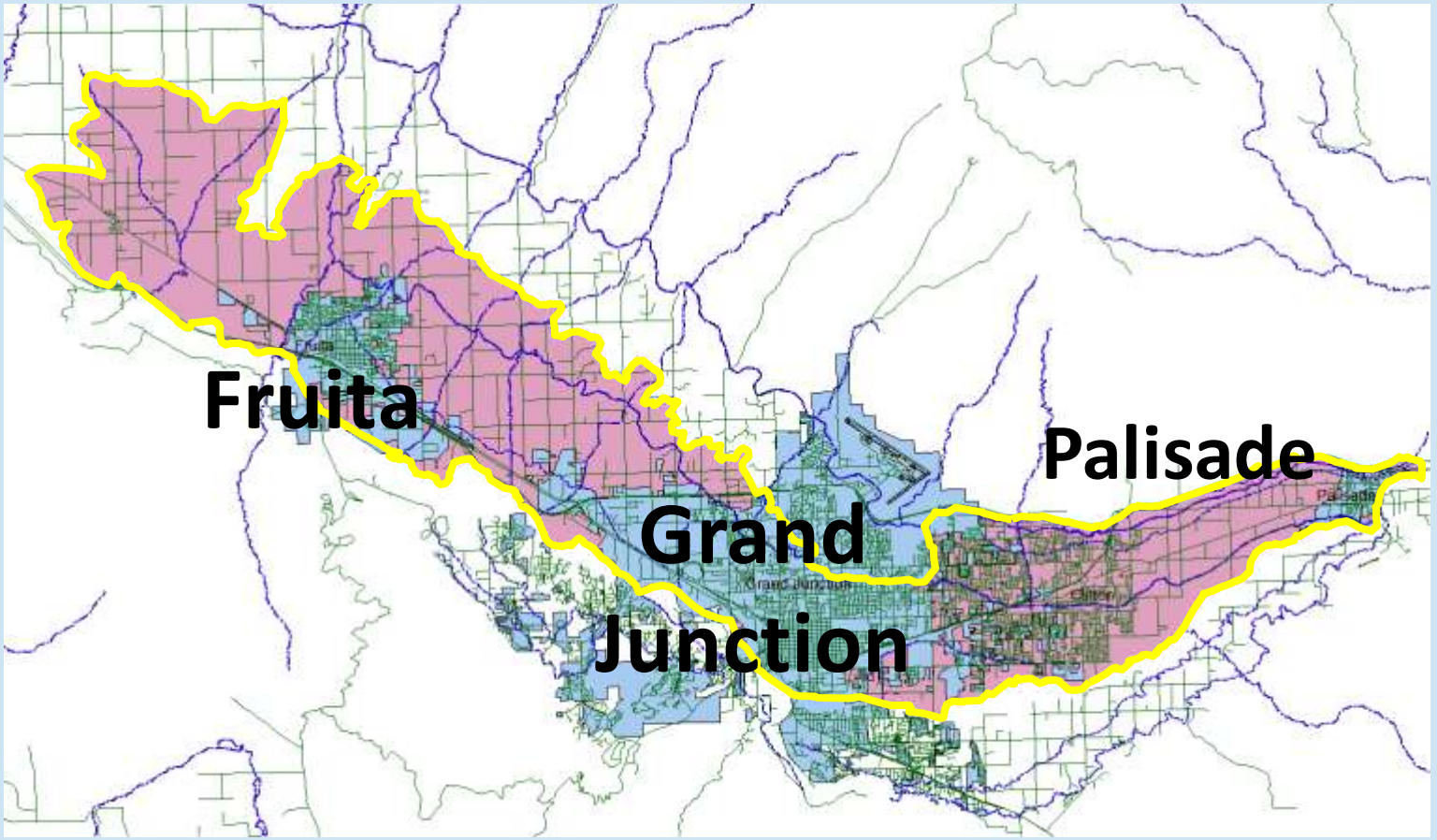
February 9, 2012

GRAND VALLEY DRAINAGE DISTRICT

Office & Shop

722 23 Road

Grand Valley Drainage District



Service Area 100 square miles

Grand Valley Drainage District

Title 37 Article 31 CRS

GRAND VALLEY DRAINAGE DISTRICT

Title 37

ARTICLE 31 CRS

Section 101

Public necessity of drainage district in Grand Valley

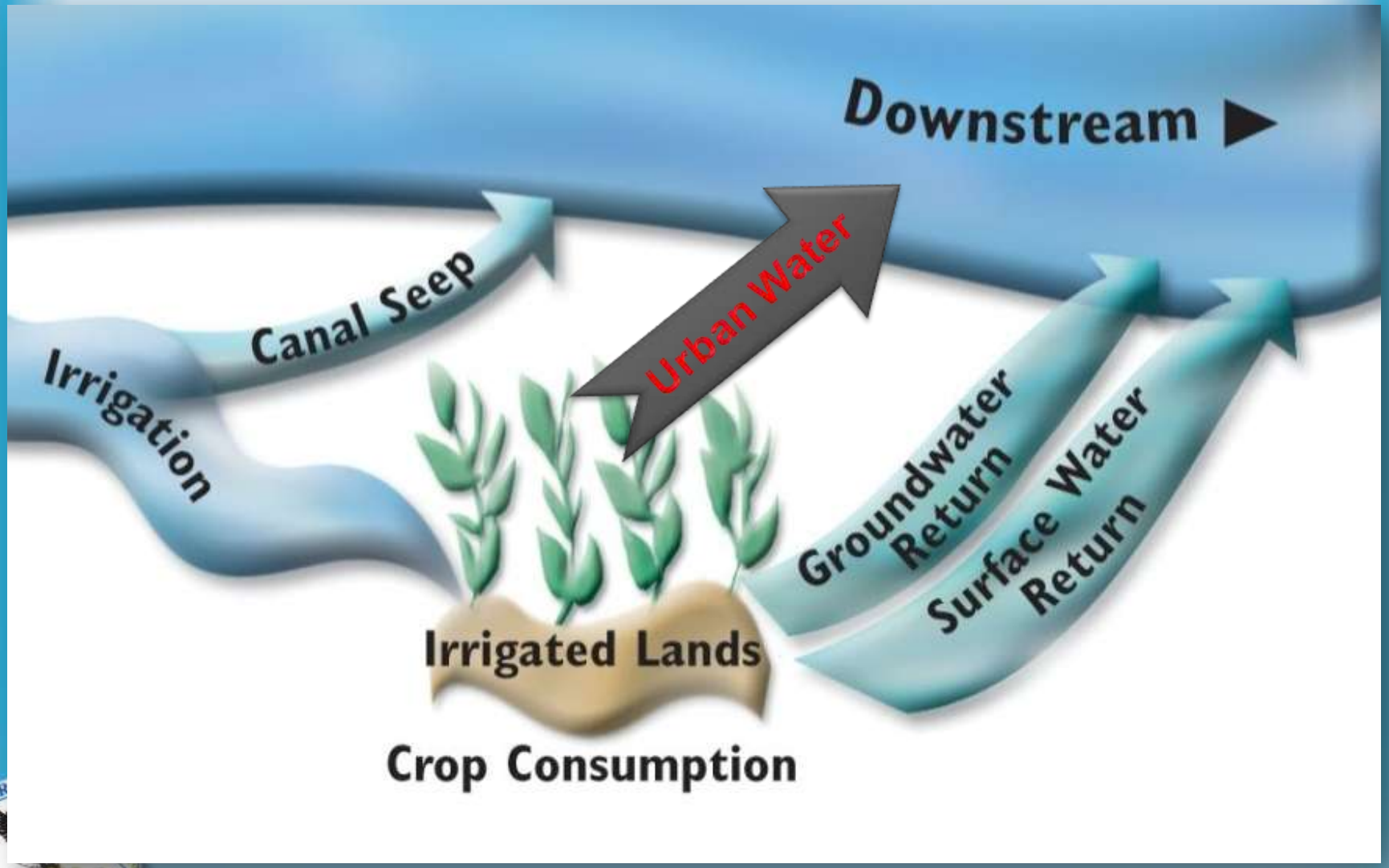
- Seepage conditions
- Irrigation return flow
- Torrential storms
- Construction of a suitable drainage works for the protection of urban and rural property
- A Governmental function

Section 105.2

General powers of district

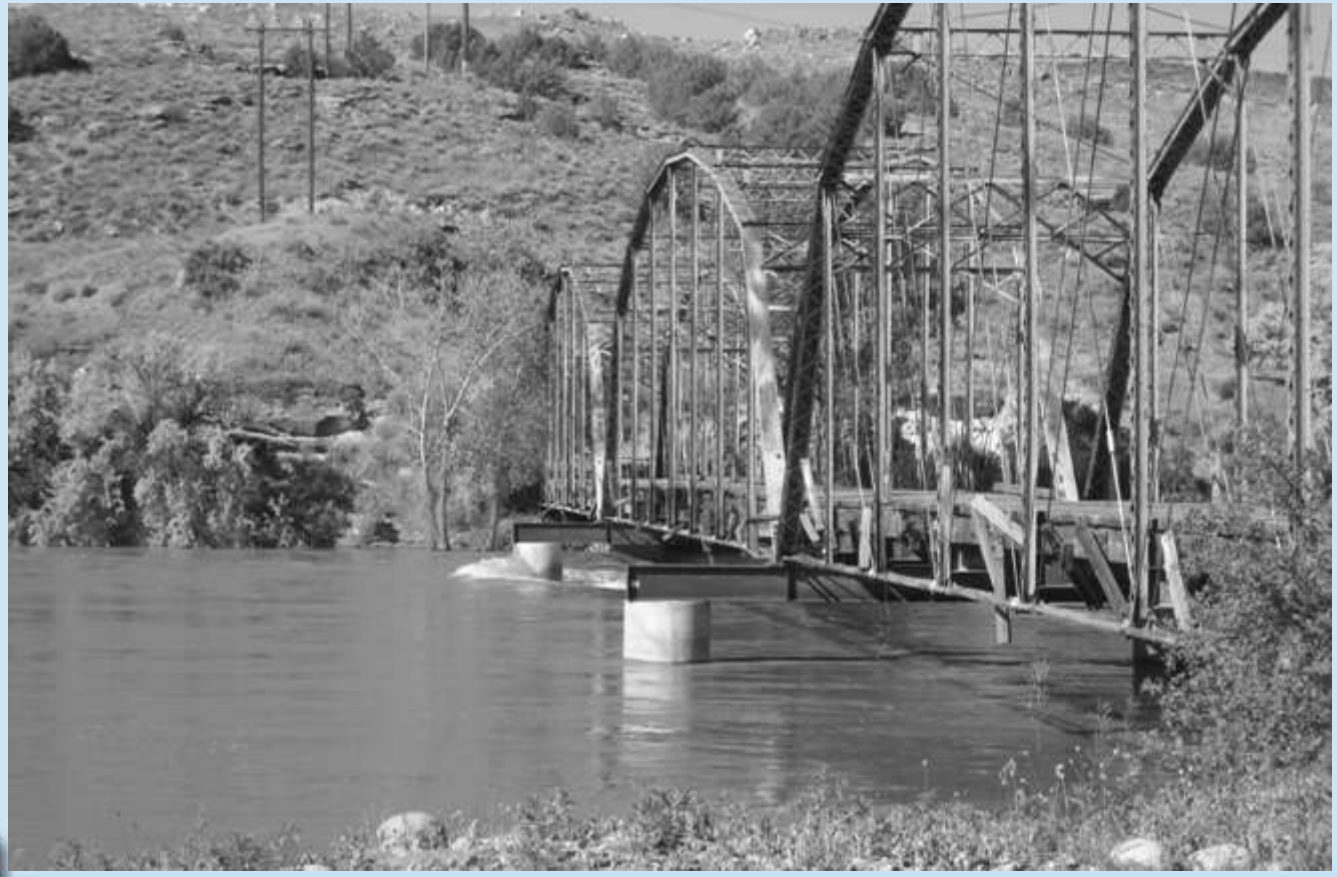
- Facilities
  1. Construct
  2. Operate
  3. Maintain
  4. Replace
- Education and demonstration programs (521 DA)
- Nonpoint source water pollution control programs (521 DA)

Grand Valley Drainage District



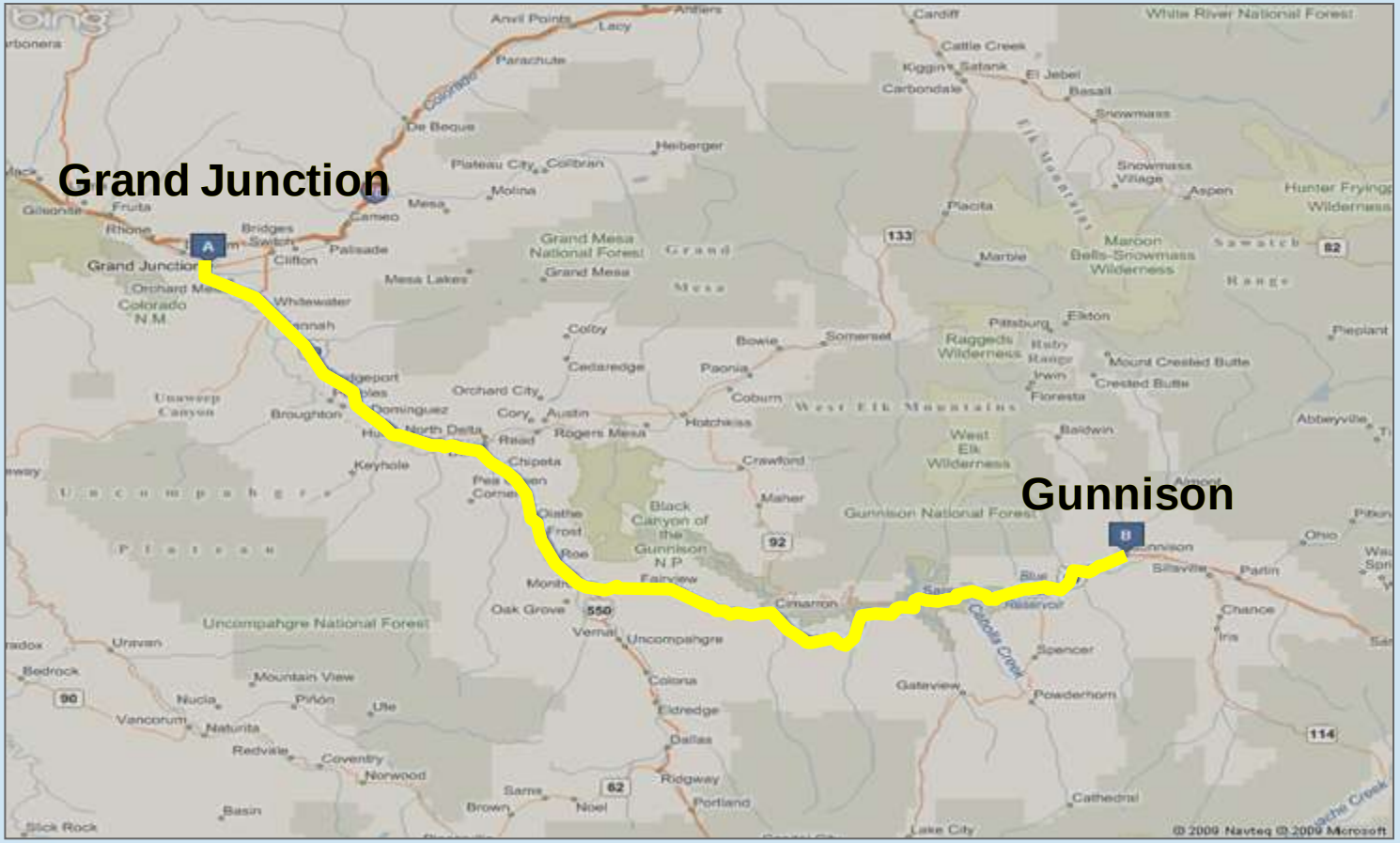
Grand Valley Drainage District

42 River outlets



GRAND VALLEY DRAINAGE DISTRICT

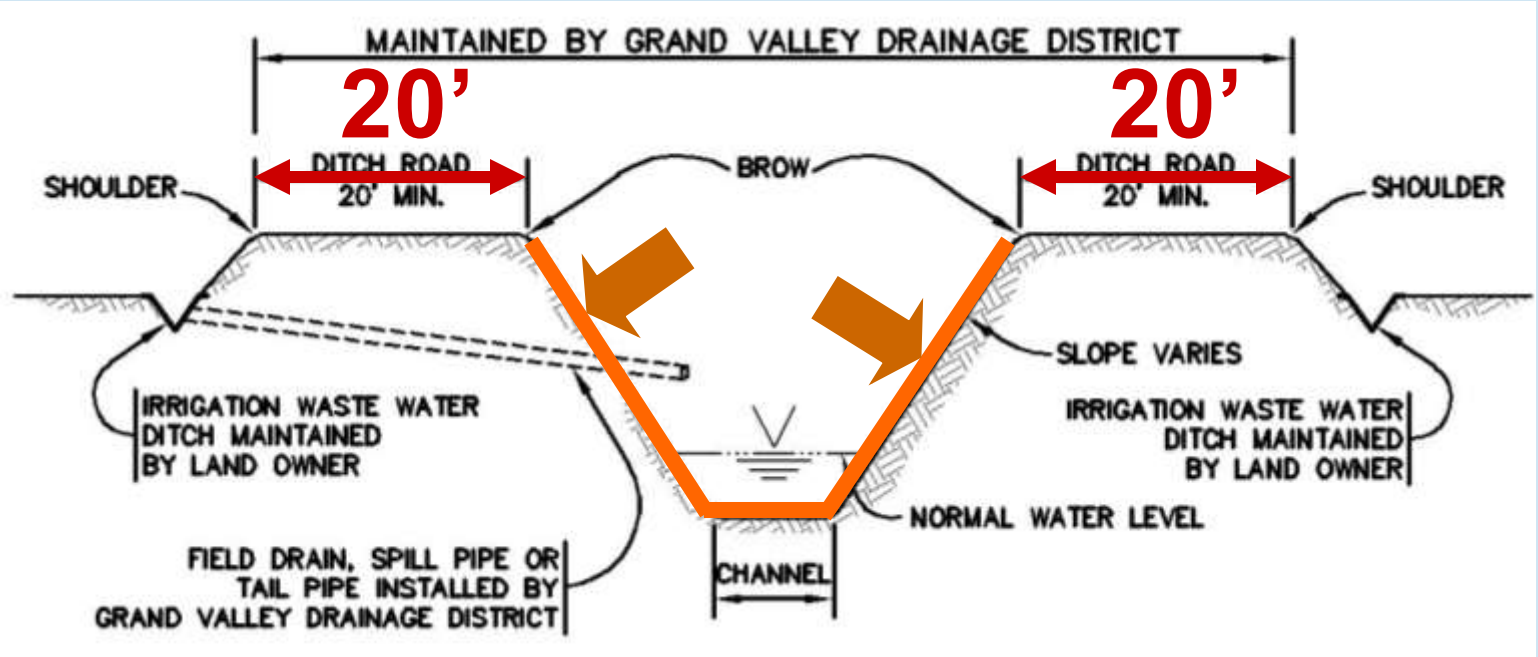
136 miles of open drains



End to end = Grand Junction to Gunnison

GRAND VALLEY DRAINAGE DISTRICT

Standards



Grand Valley Drainage District

Drains allow a route for “seep” water to get away

North of 1796 M Rd

Grand Valley Drainage District

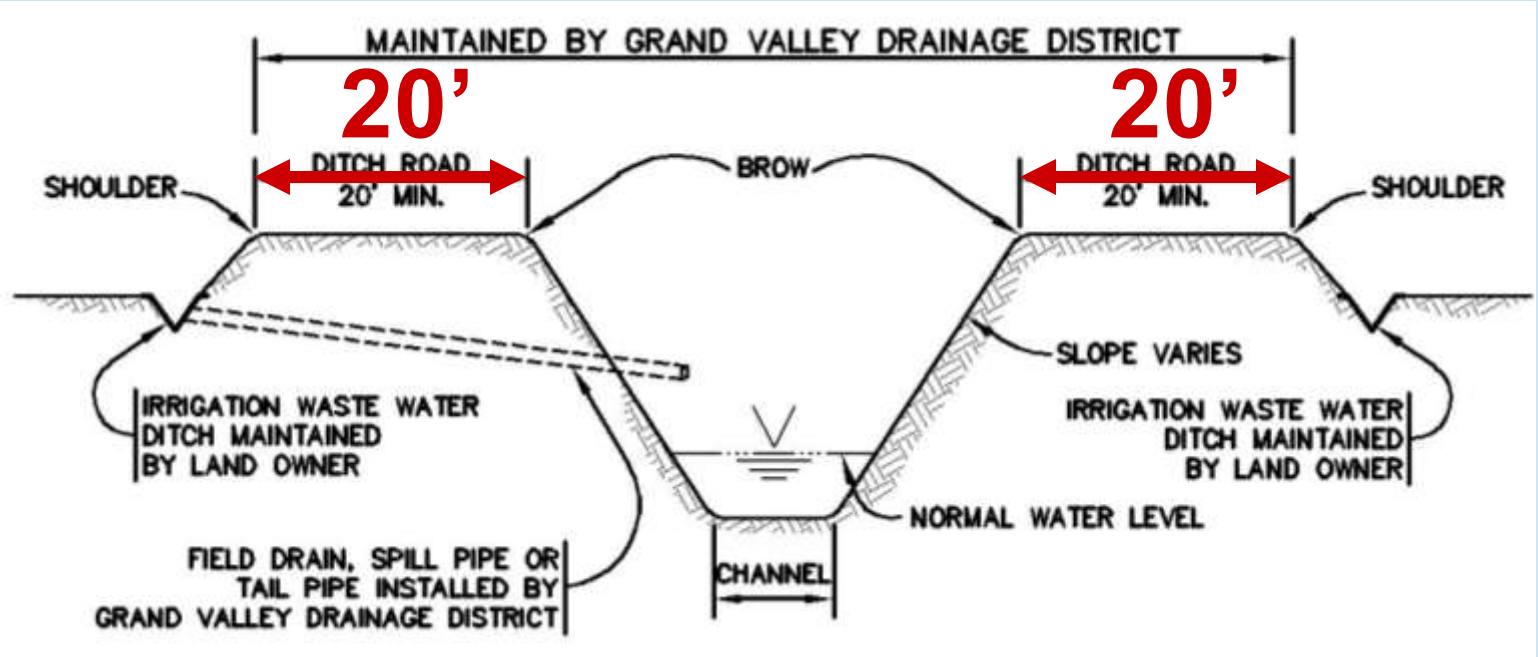
Irrigation water return flow
North of K Road at the Egg Farm

GRAND VALLEY DRAINAGE DISTRICT

Ligrani Drain in Rim Rock Market Place

GRAND VALLEY DRAINAGE DISTRICT

Remember our Standards?



Grand Valley Drainage District

Ligrani Drain in Rim Rock Market Place

GRAND VALLEY DRAINAGE DISTRICT

Ligrani Drain in Rim Rock Market Place

GRAND VALLEY DRAINAGE DISTRICT

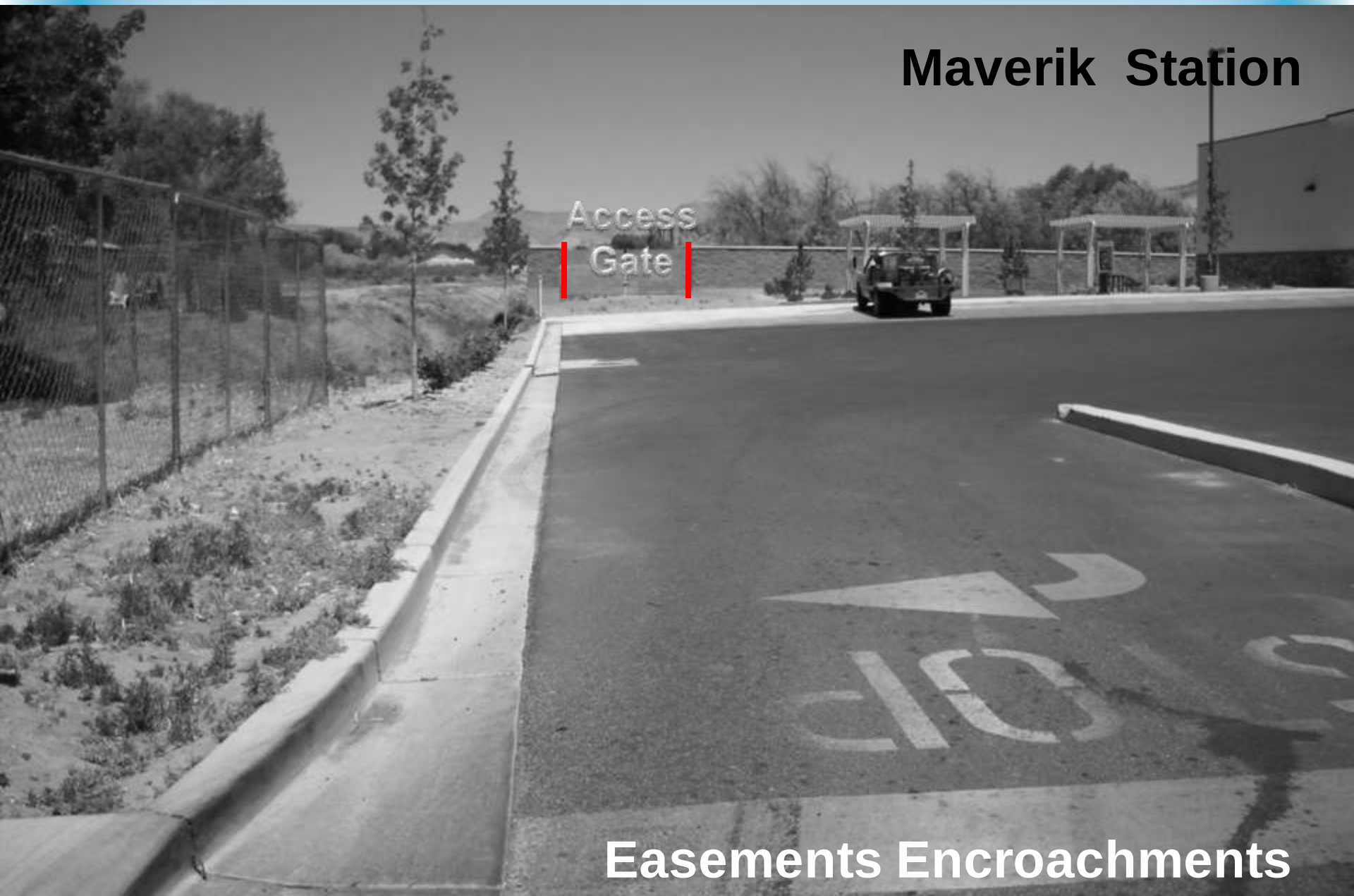
January 18 2012

February 9 2012

Ligrani Drain in Rim Rock Market Place

Grand Valley Drainage District

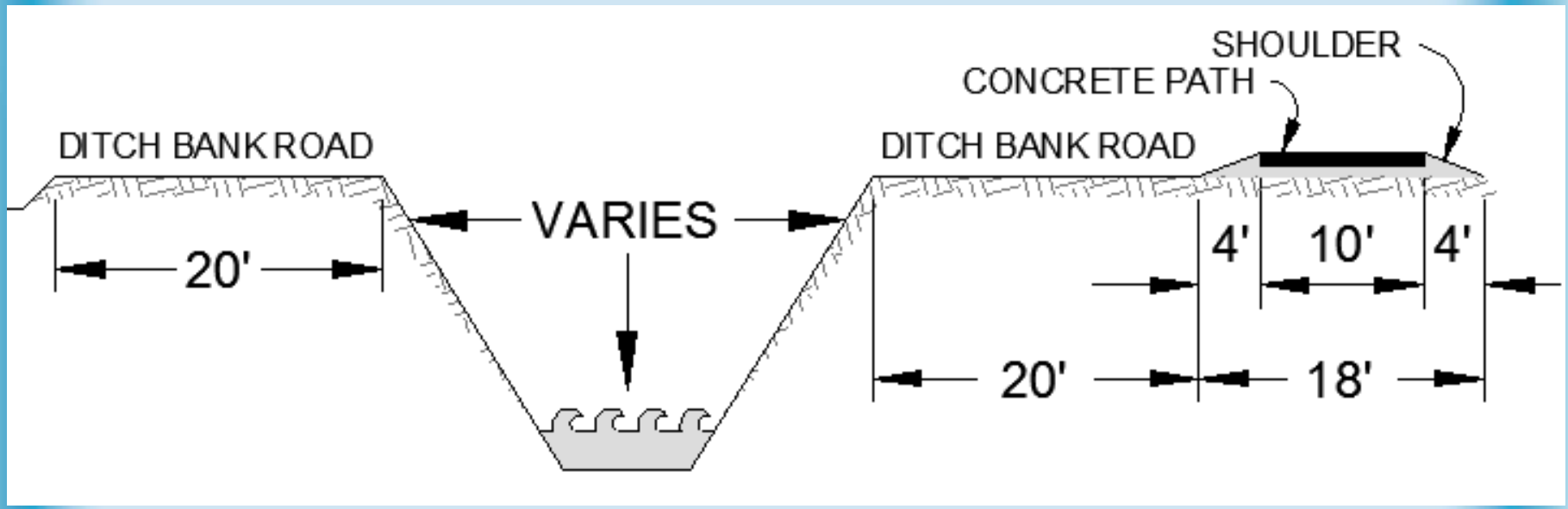
Grand Valley Drainage District



Grand Valley Drainage District

GRAND VALLEY DRAINAGE DISTRICT

Acceptable Trails near open drains

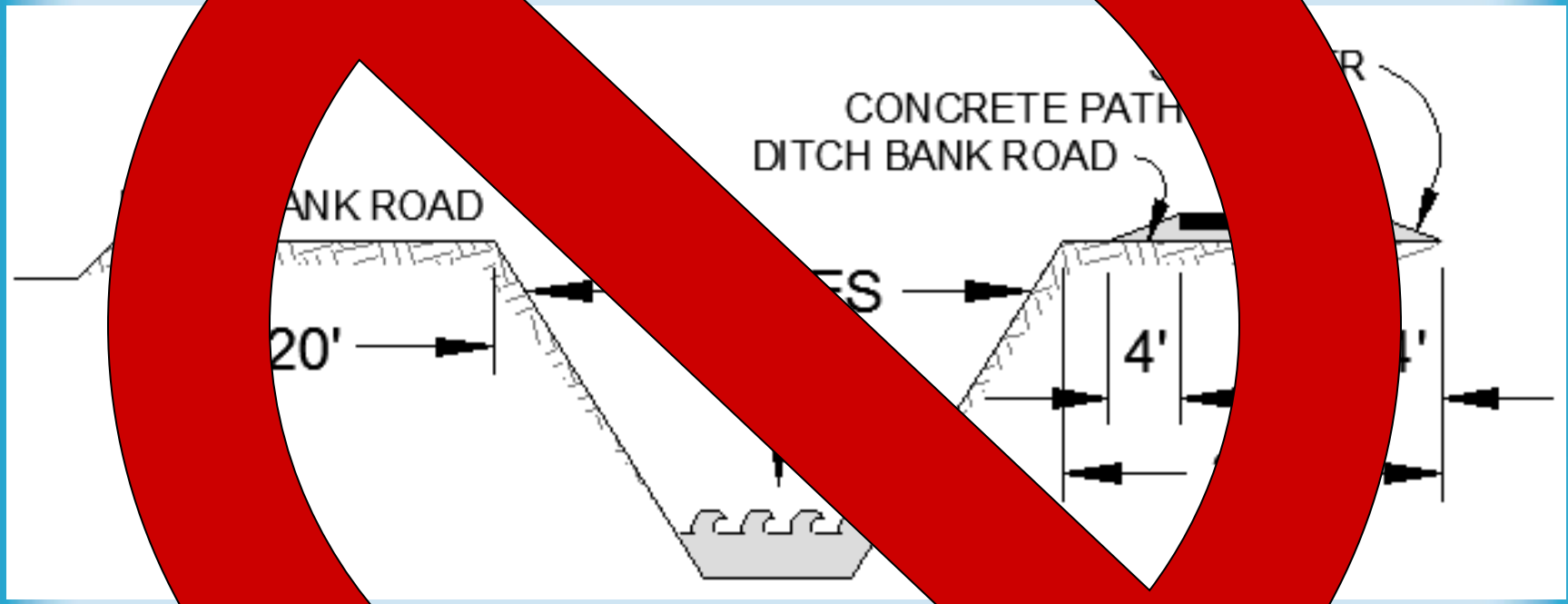


THIS CONFIGURATION WILL BE ACCEPTABLE TO THE DRAINAGE DISTRICT ONLY IF THE ACTUAL PROPERTY OWNER HAS GRANTED EASEMENT FOR THE TRAIL.

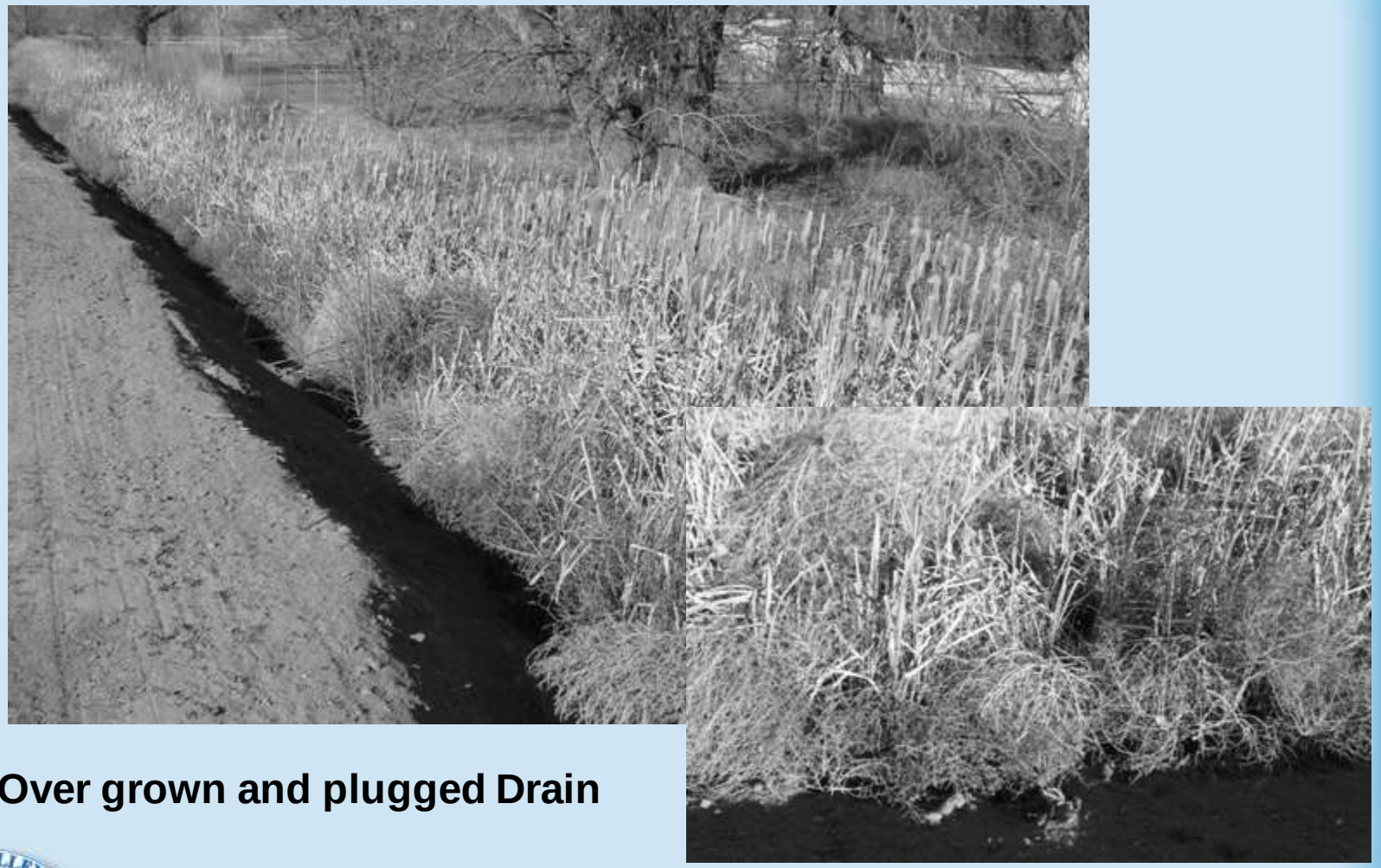
Trail **adjacent** to the work surface acceptable

GRAND VA GE DISTRICT

ble Trails nea ns



Grand Valley Drainage District



Over grown and plugged Drain

Grand Valley Drainage District

A Burning Permit is the solution to over grown drains

Note the Fire Truck and the Chase Truck

Grand Valley Drainage District

District “Long Front” excavator cleaning a ditch after burning

GRAND VALLEY DRAINAGE DISTRICT

Spoil from cleaning on ditch road

Spoil leveled six weeks later

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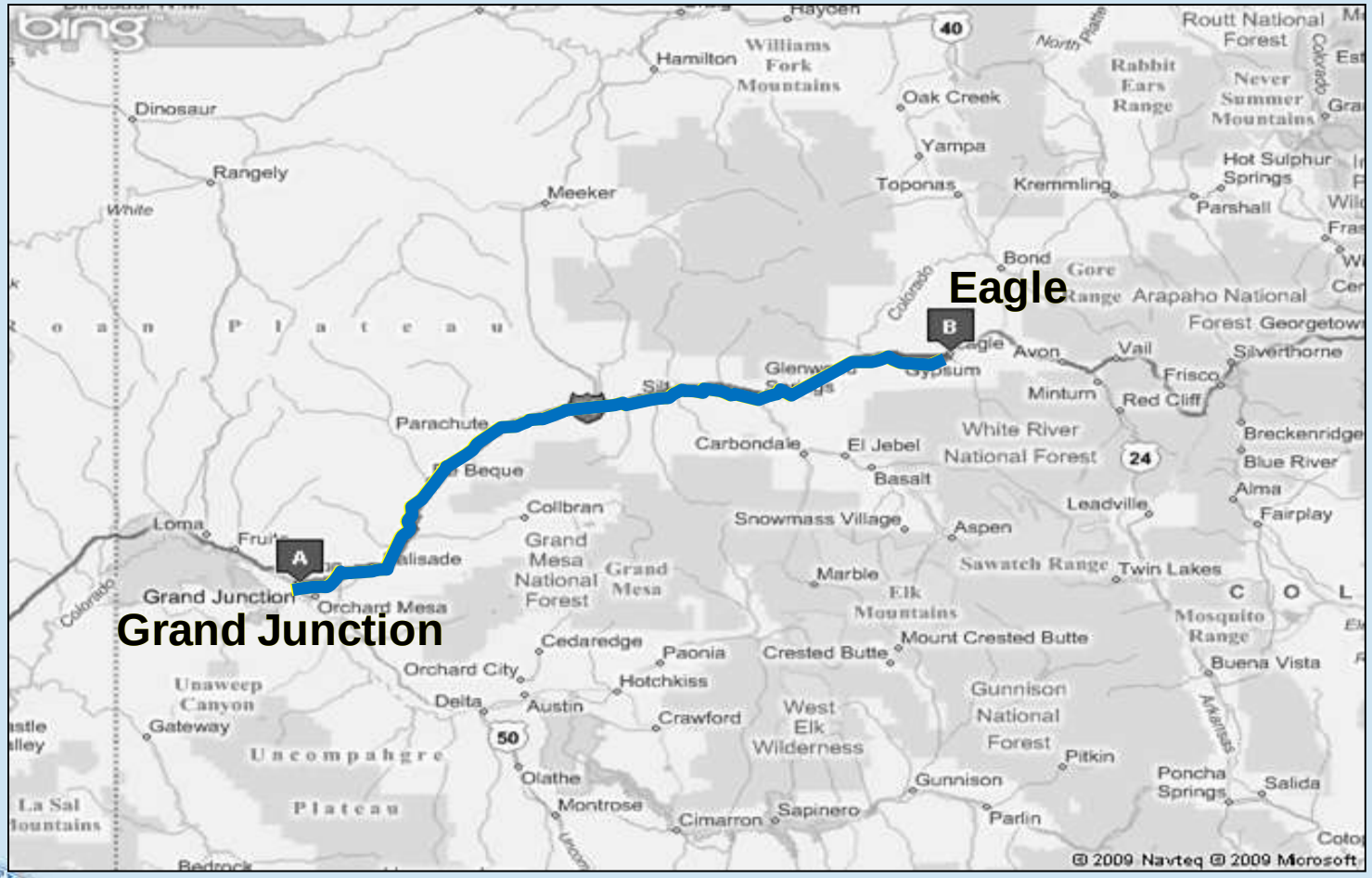
Mow Ditch Banks

Grand Valley Drainage District

Grate cleaning

GRAND VALLEY DRAINAGE DISTRICT

128 miles of Piped drains

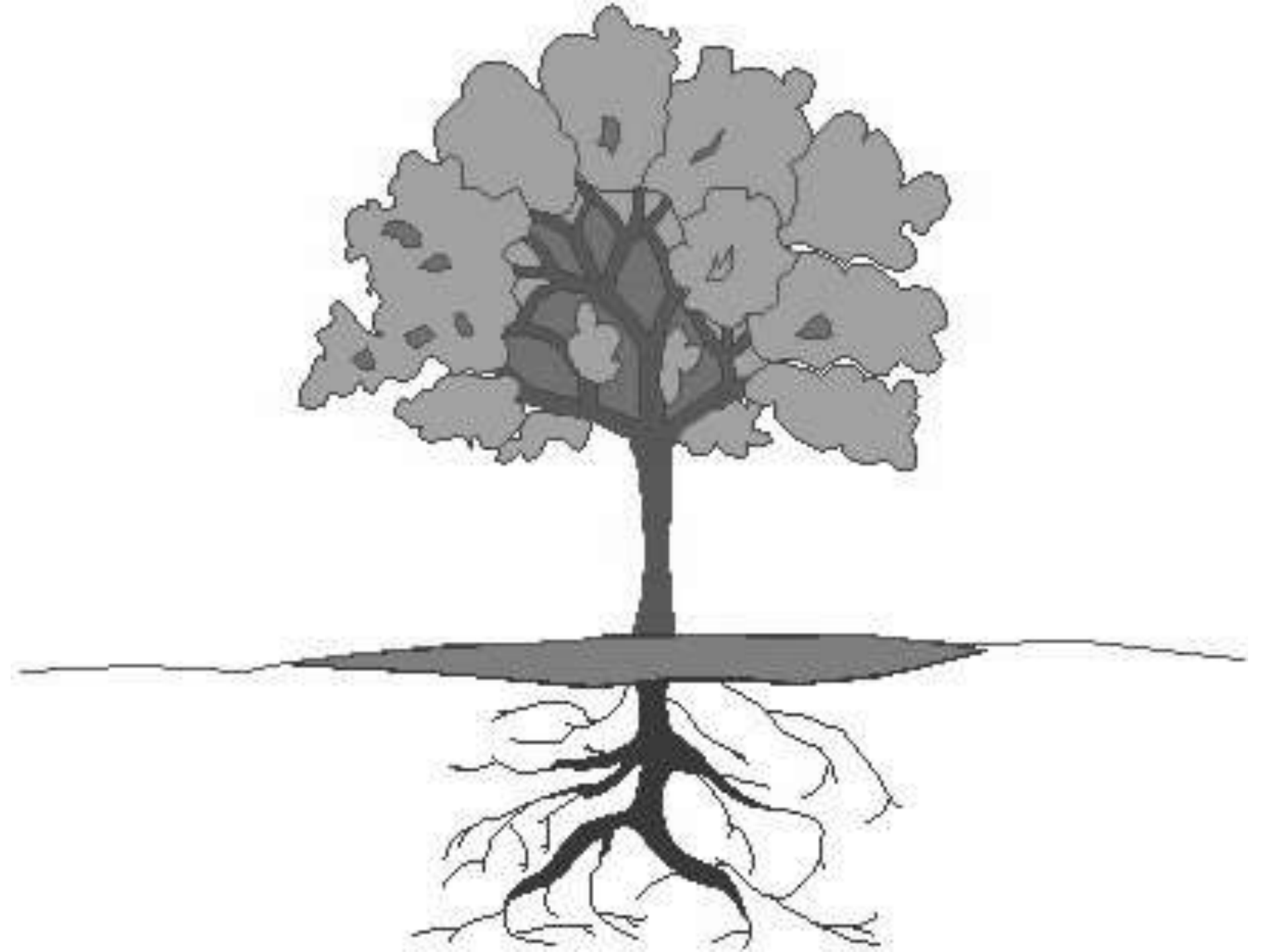


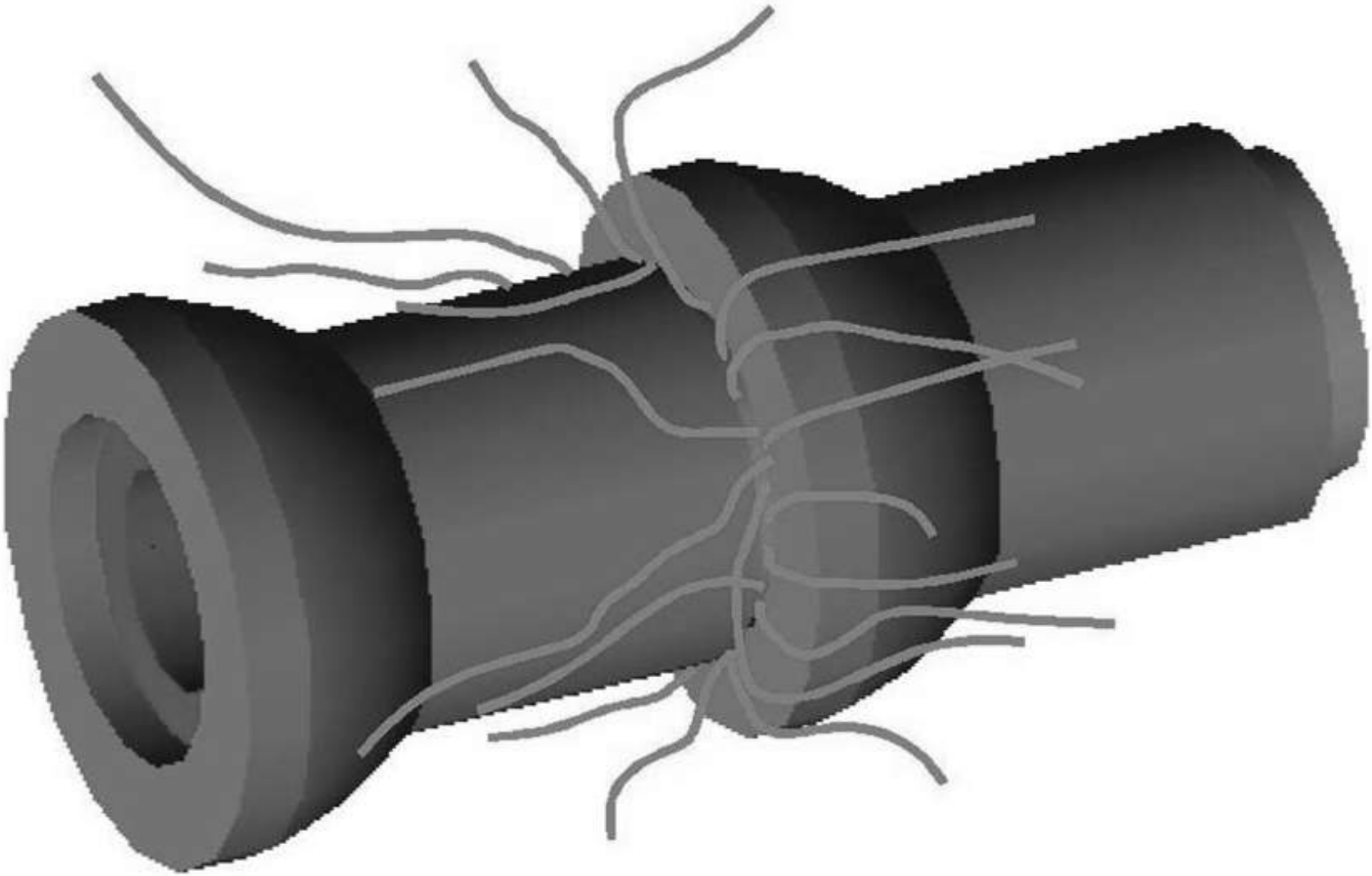
End to end = Grand Junction to Eagle

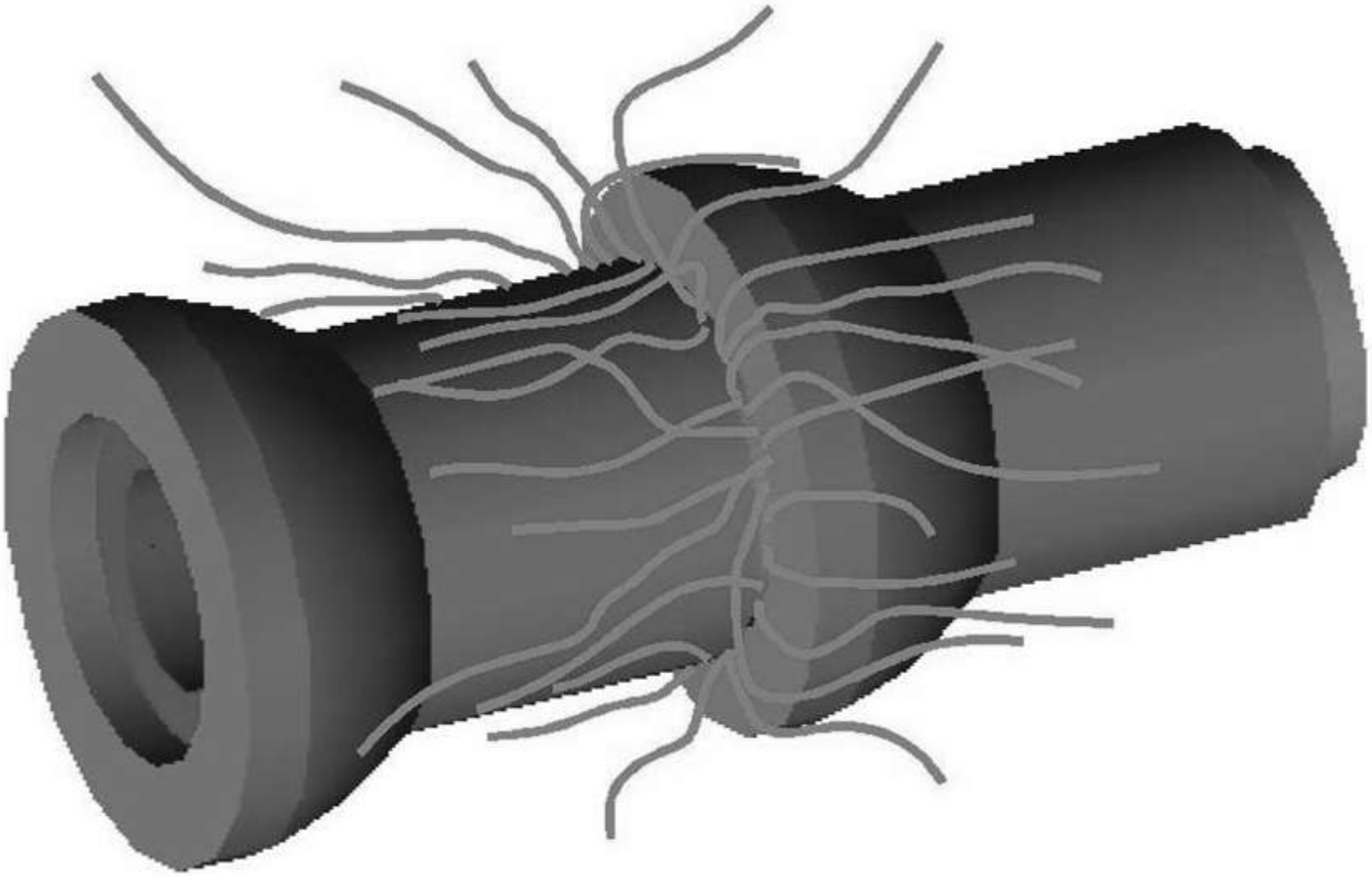
Grand Valley Drainage District

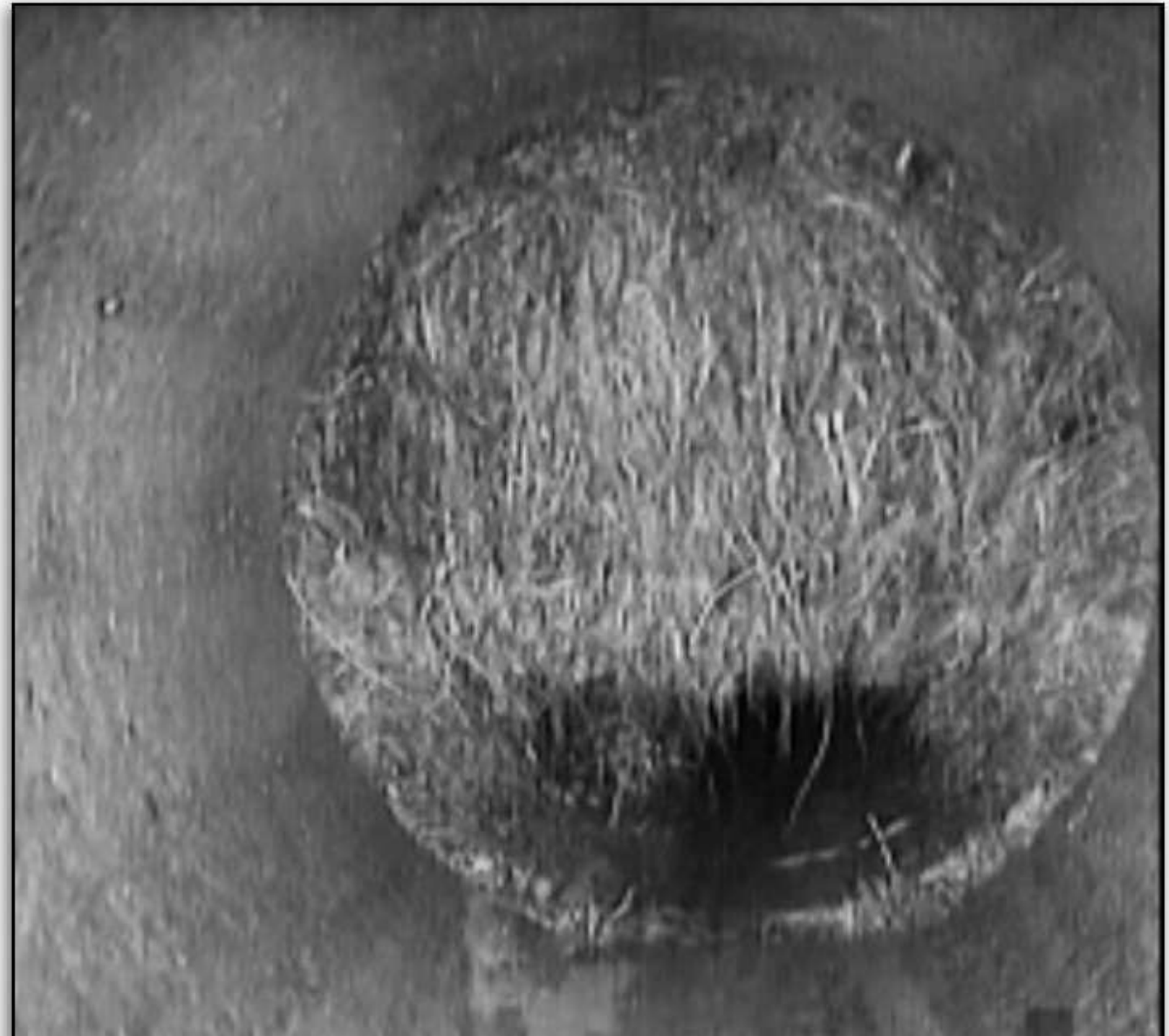
Rock problems

Root problems









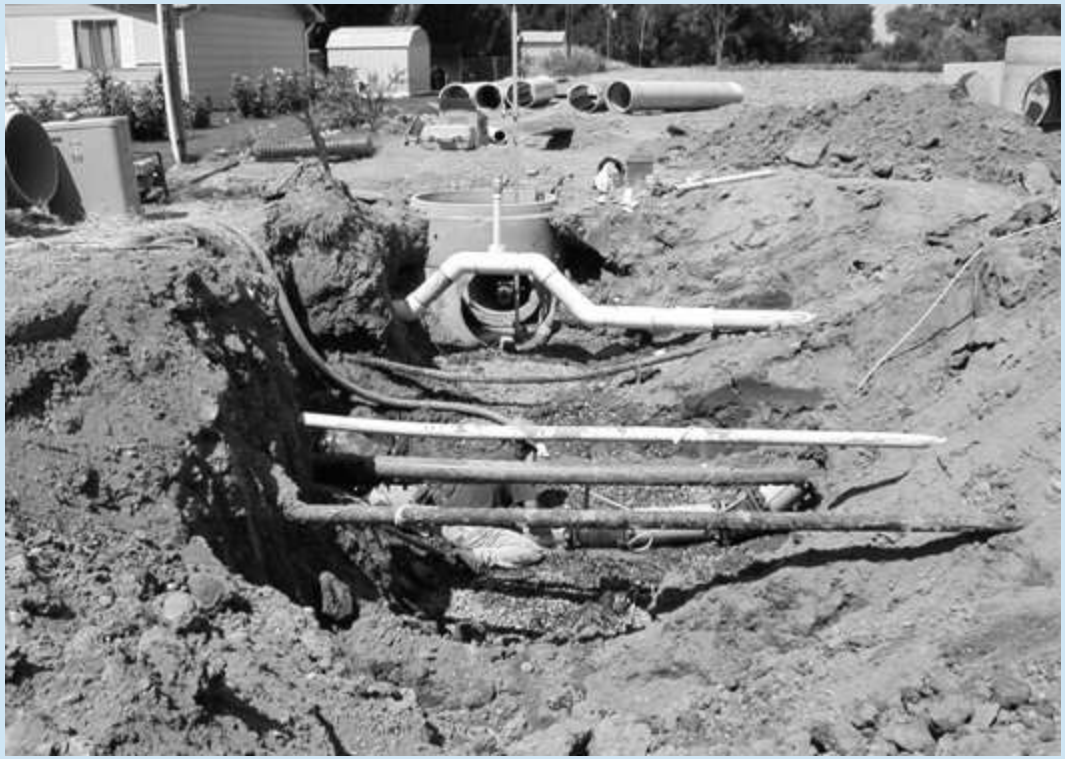
VACTOR
RAM JET
VACTOR

OHIO
LOS ANGELES, CA

GRAND VALLEY DRAINAGE DISTRICT

Cones and flags mark manholes in residential area

Grand Valley Drainage District



Competition for room in street rights-of-way between utilities
American Manor Drain at 31½ Road

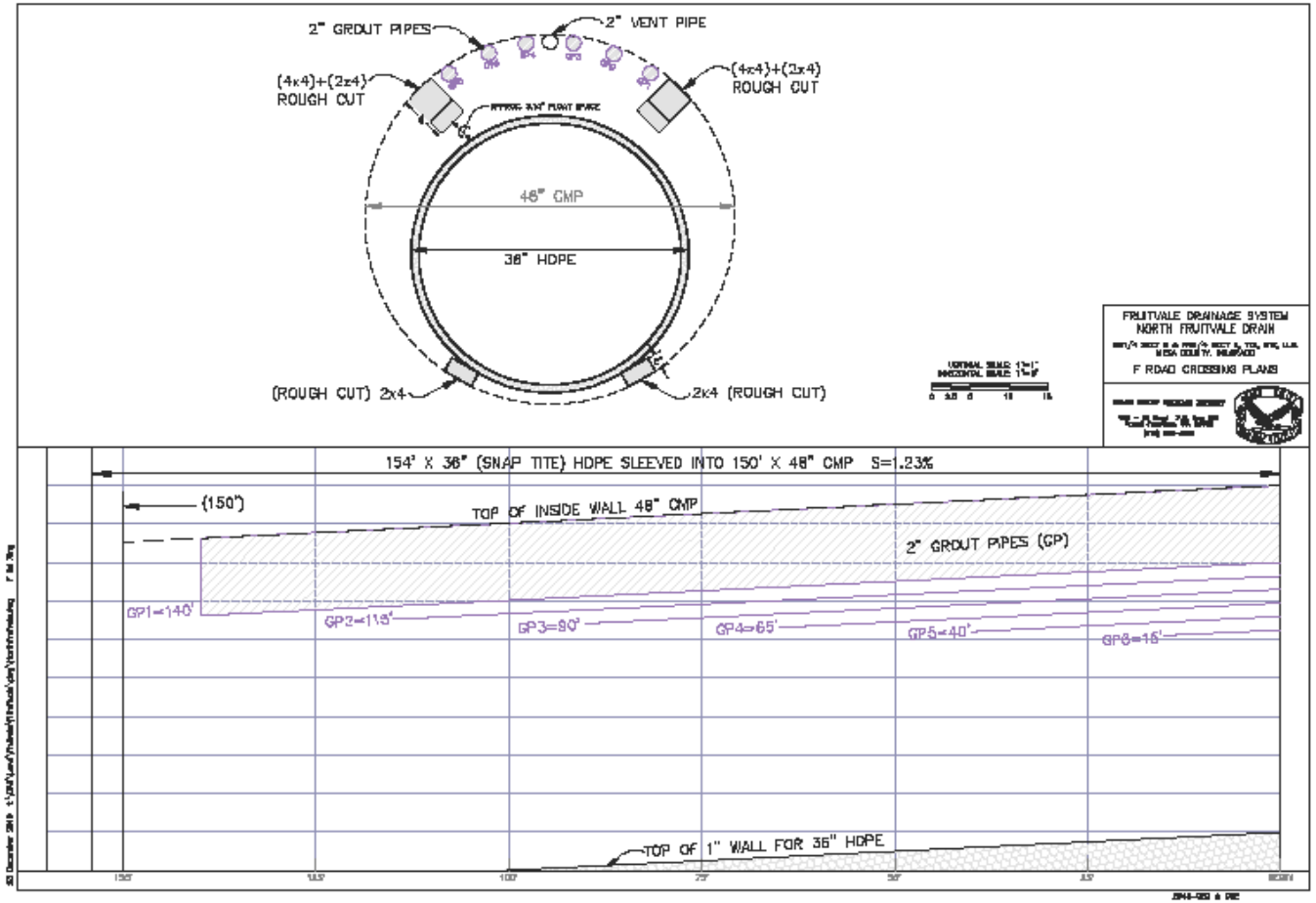
Grand Valley Drainage District

Traffic, 29 ½ and F Road

Grand Valley Drainage District

Failed Metal Culvert Under F Road

GRAND VALLEY DRAINAGE DISTRICT



This is the Plan

GRAND VALLEY DRAINAGE DISTRICT

Excavated work area south side of F Road

Better here than through F Road !!!

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Spacers and Grout tubes, from North side

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Lining Completed, Grout will come next

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150 feet of 36” “Snap-Tite” liner pushed through the old Culvert

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Stormwater Management

added by State Legislature in 1986

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Floodwaters exceeding pipe capacity in a residential area

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After the flood passed! Bosley Wash at I-70

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Detention facilities

Scout at Home Depot

Regional detention site under construction NE of Fruita

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Stormwater quality the 2003 Federal requirement

Results of concrete truck wash out in drain pipe

CONCRETE
WASH OUT

Grand Valley Drainage District

Unchecked Erosion

Grand Valley Drainage District

Illicit Discharge Detection and Elimination (IDDE)

Government Highline Canal Breach

July 11, 2011

The breach at its beginning stages

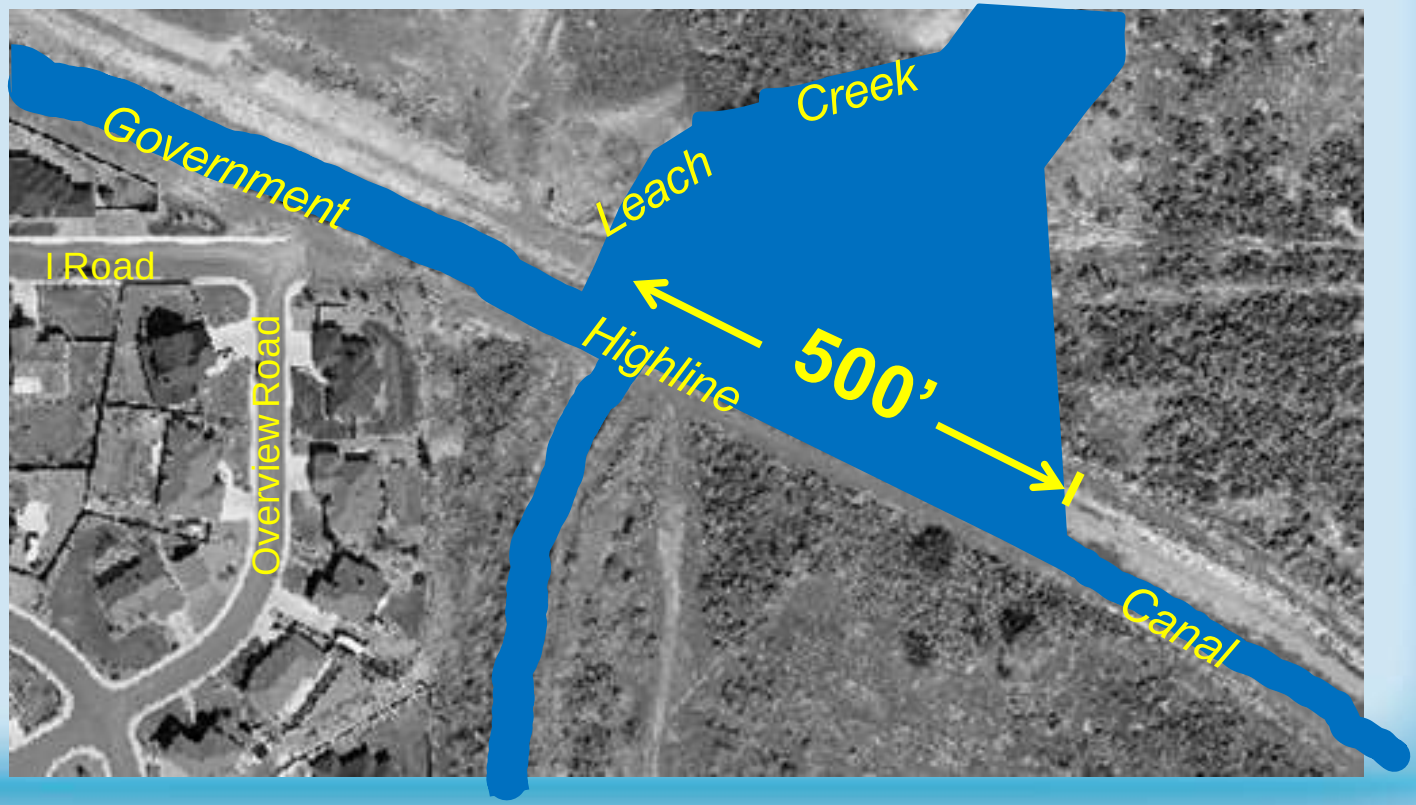
South Canal Bank
Breach caused by failed culvert under the canal

Breach waters
South Canal Bank

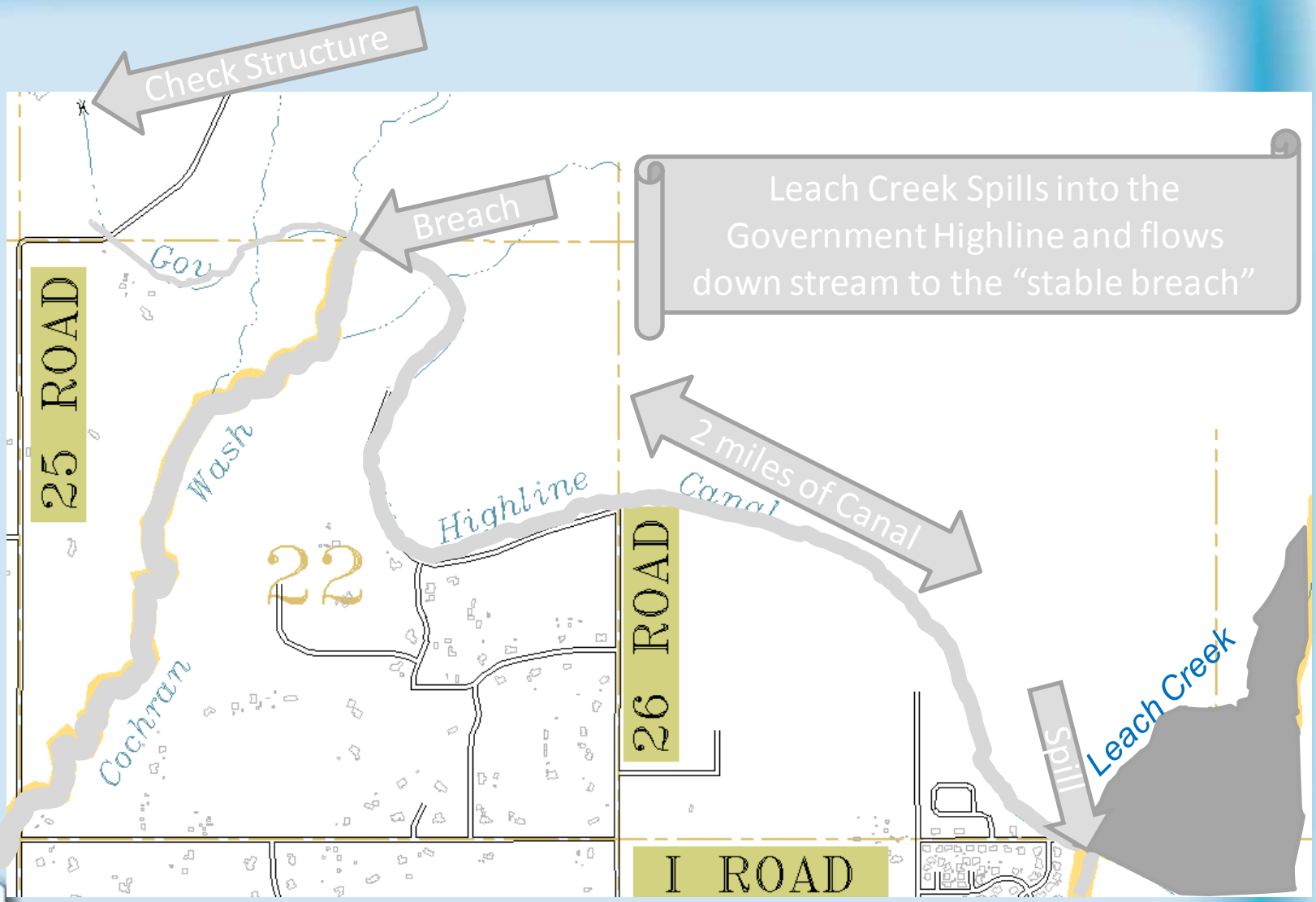
The Canal at full breach

GRAND VALLEY DRAINAGE DISTRICT

Leach Creek under the Government Highline Canal is partially plugged and runs down the ROW and spills into the already crippled Canal two miles upstream from the breach



GRAND VALLEY DRAINAGE DISTRICT



GRAND VALLEY DRAINAGE DISTRICT

Looking North at Leach Creek from Government Highline Canal

GRAND VALLEY DRAINAGE DISTRICT

Leach Creek spills into the Government Highline Canal leaving large amounts of debris behind

Leach Creek
After Cleaning & Repair

North side after cleaning & repair

Leach Creek South of Canal
Before Cleaning

Leach Creek

South side after cleaning & repair

Before Cleaning

After Cleaning

Grand Valley Drainage District

W.A.T.E.R. Club, 5-2-1 DA, Grand Junction, Mesa County, Fruita, Palisade, GVDD, and lots of volunteers annual river clean-up August 14, 2010

GRAND VALLEY DRAINAGE DISTRICT

ACCOUNT # R029535
PARCEL # 294304470002
TAX DISTRICT: 16109

Real PROPERTY TAX NOTICE
2010 TAXES DUE IN 2011

TAX AUTHORITY	TAX LEVY	TEMP TAX CREDIT	GENERAL TAX
CENTRAL GRAND VALLEY SAN	0.00000	0.00000	$0.00
COLORADO RIVER WATER	0.25300	0.06500	$4.18
CLIFTON WATER DISTRICT	0.00000	0.00000	$0.00
MESA CNTY ROAD & BRIDGE-GRAND JCT	0.22150	0.00000	$4.93
CITY OF GRAND JUNCTION	8.00000	0.00000	$178.08
GRAND RIVER MOSQUITO CTRL	1.51300	0.19000	$29.45
GRAND VALLEY DRAINAGE DIST	1.20500	0.00000	$26.82
LIBRARY DISTRICT	3.00000	0.00000	$66.78
MESA COUNTY	11.78900	0.03000	$261.77
COUNTY ROAD & BRIDGE-1/2 LEVY	0.22150	0.00000	$4.93
SCHOOL DIST# 51 GENERAL	28.24900	0.00000	$628.83
SCHOOL DIST# 51 BOND	5.30000	0.00000	$117.98
UTE WATER CONSERVANCY	0.50000	0.00000	$11.13
NET LEVY-->	59.9670000		$1,334.88
		ADMIN FEE	$0.00
		SPECIAL ASSESSMENT	$50.00
		SENIOR HOMESTEAD EXEMP	$0.00
		GRAND TOTAL	$1,384.88

Mill supported levy

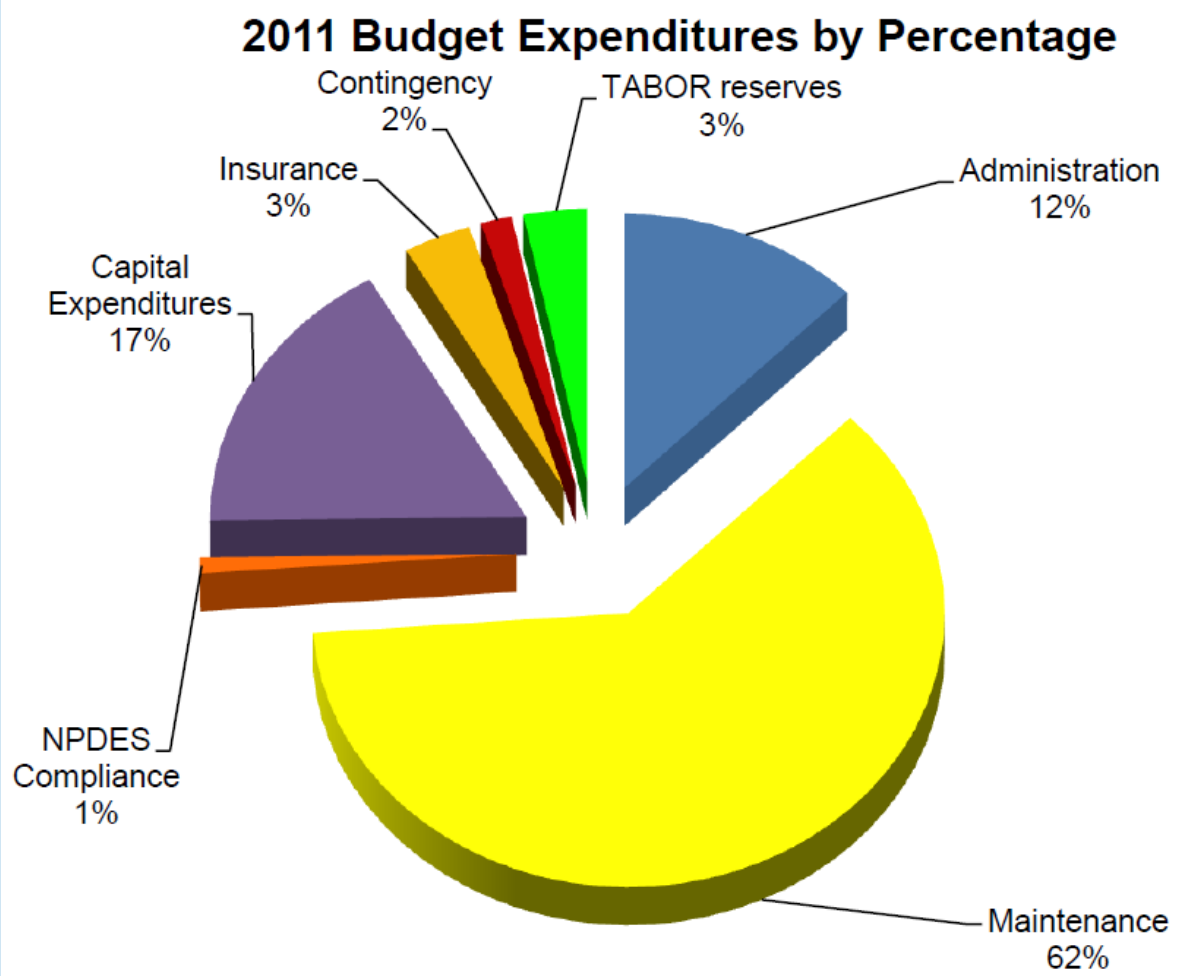
S B 25 – In absence of State Legislative Funding, your School General Fund mill levy would have been

LEGAL DESCRIPTION OF PROPERTY

LOT 2 BLK 2 ORANGE GROVE SUBDIVISION SEC 4 1S 1E
AND AN UND INT IN TRACTS - 0.23AC

Revenues of $1,300,000 to $1,500,000

GRAND VALLEY DRAINAGE DISTRICT



Total Budget $1,300,000 to $1,500,000

GRAND VALLEY DRAINAGE DISTRICT

Dedicated Locate Hotline 970-242-4346

Locate Fax line 970-242-4348

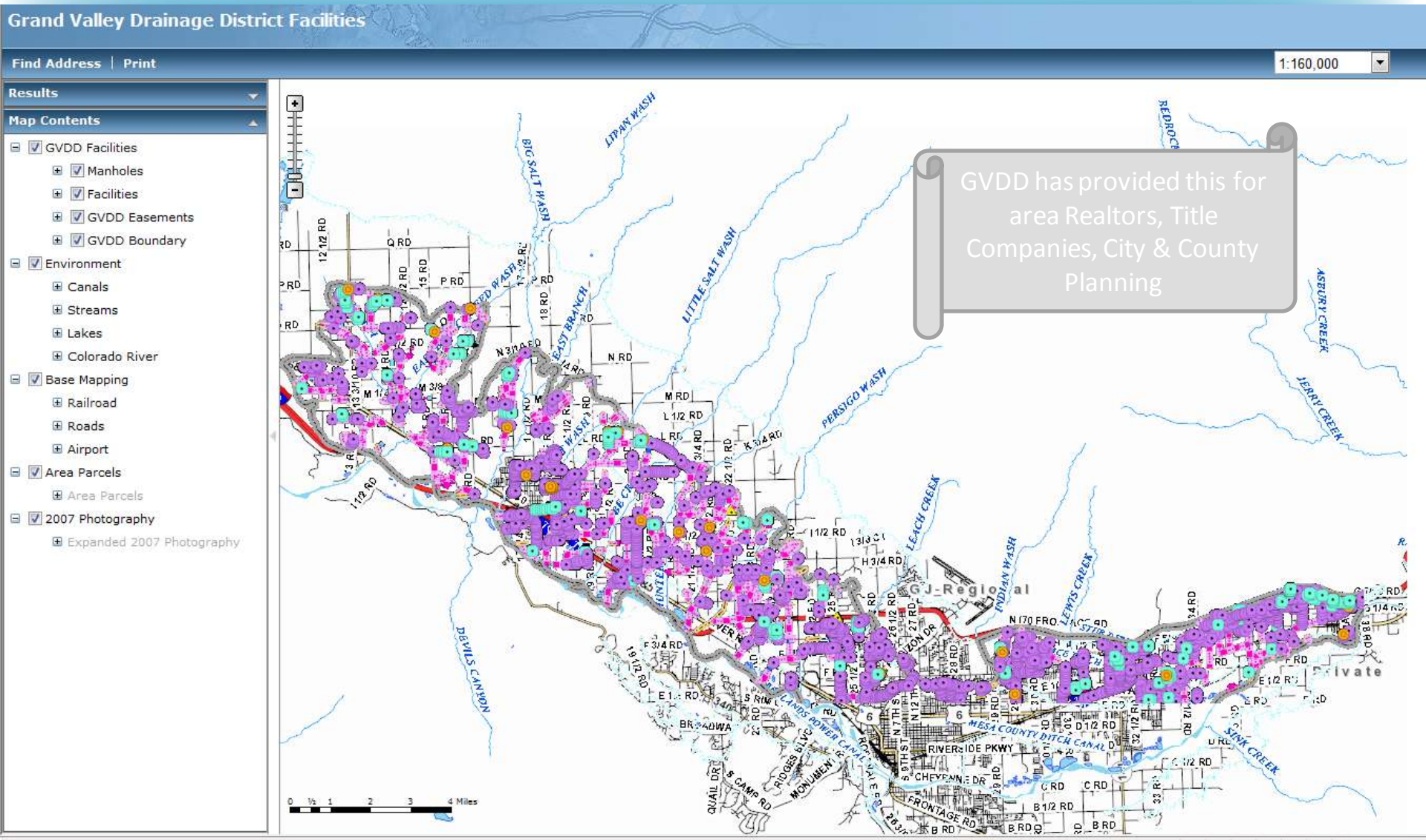
Call before you dig

COLORADO 811

KNOW WHAT'S BELOW. CALL BEFORE YOU DIG.

To view the location of our facilities go to

www.grandvalleydrainagedistrict.org



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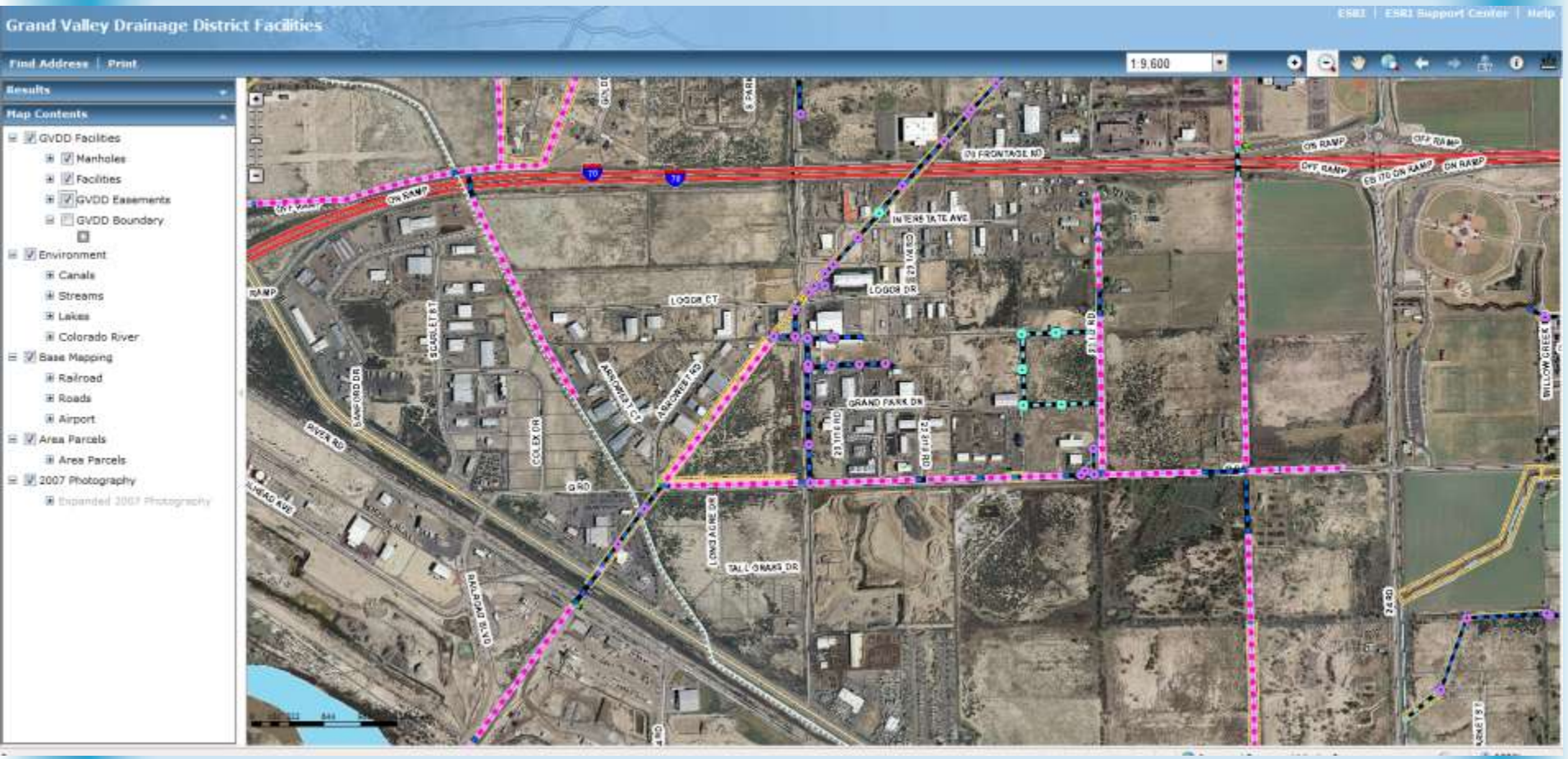
GVDD Facilities



Grand Valley Drainage District

Questions ??

Comments !!

Thank You !!!

Colorado Mesa University
Water Center