DELTA PROTECTION COMMISSION
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May 12, 2000

To: Delta Protection Commission

From: Margit Aramburu, Executive Director

Subject: Pending Projects Memo
(For Commission Information Only)

Purpose of the Pending Projects Memo:

The purpose of the memo is to enhance communication throughout the Delta and to let jurisdictions know what projects are being proposed "next door". No Commission action is required; the Pending Projects Memo is for information only.

Pending Projects Memo:

The attached memo is intended to be informational only, and does not represent analysis of the consistency of the proposed projects with the Commission adopted Land Use and Resource Management Plan for the Primary Zone of the Delta. All newly added projects and changes to listed projects are underlined. The projects included on the Pending Projects Memo:

- Are pending; projects which are approved will be removed from the list. The memo may include projects which are not "development" as defined in Section 29723(b) of the Public Resources Code, again for information only.
- Are private, local, State, and federal projects in the Primary Zone.
- Are projects in the Secondary Zone or out of the Legal Delta that would have a direct impact on the land uses and resources of the Primary Zone, for example, a marina.

The Pending Projects Memo includes projects within each of the five Delta counties, plus projects located in more than one county (Multi-County).

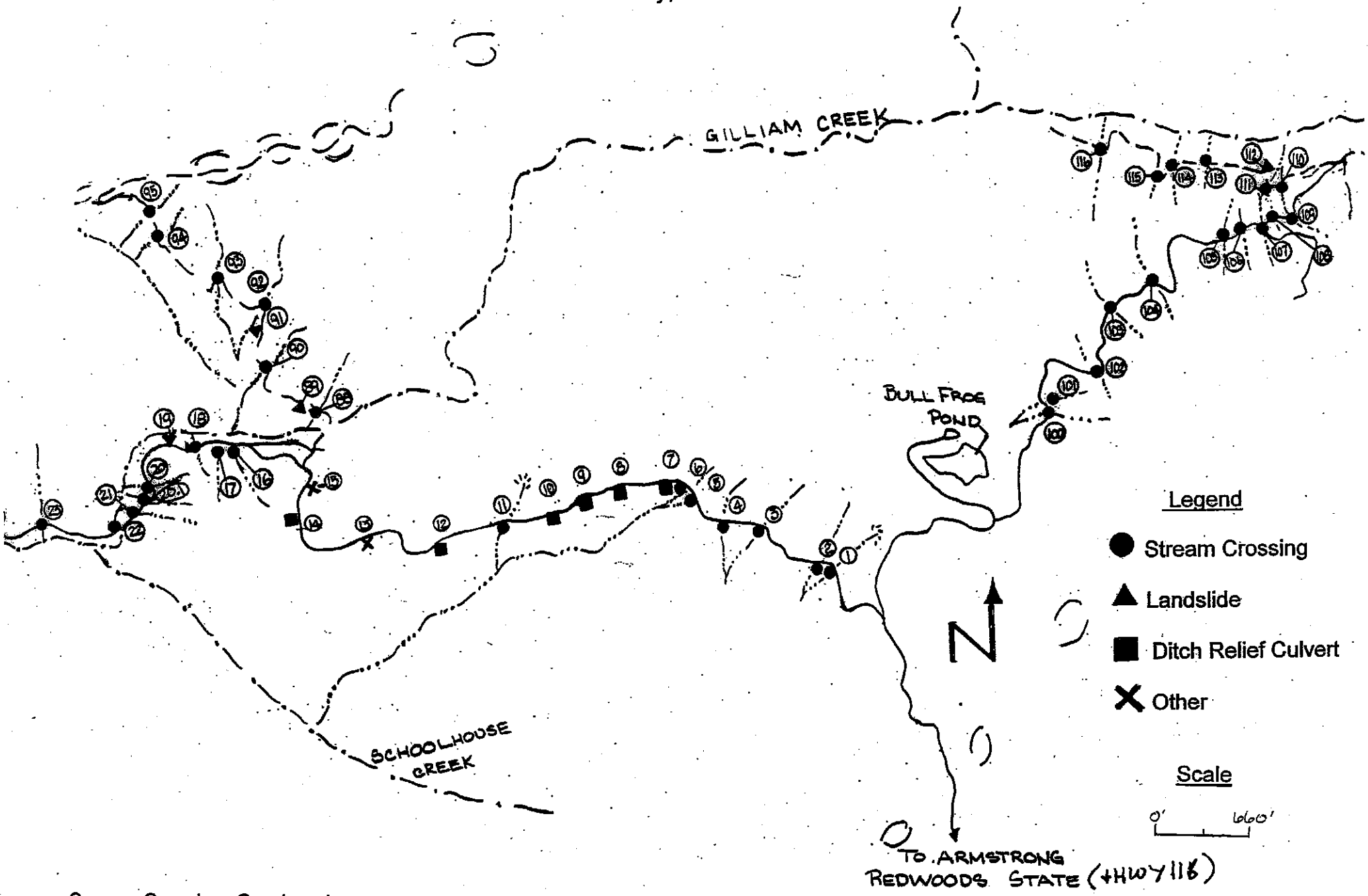
Additional information about these projects is available in the Commission's office, including environmental documents, staff reports, planning commission agendas, and meeting minutes.

CONTRA COSTA

Project Name	Applicant	Zone	Location	Project Description	Project Acres	Loss of Ag Land	Mitigation/Type	Status
Sewage Treatment Plant Expansion	Sanitary District #19	2	Discovery Bay	Expand plant from 1.3 mgd to 2.1 mgd to serve expansion; discharge into Old River	18.6	Yes; 18.6		Neg Dec 4/23/98; Notice of Violation 8/31/98; Approved 6/11/99; Appealed to SWRCB 7/9/99
Marina Addition	Lindquist	1	Rock Slough, Holland Tract	At Lindquist Landing Marina, add 6 ft x 750 ft dock for houseboat rentals	N/A	No		Public Notice 5/12/99
Habitat Restoration Project	CA State Parks	1	Franks Tract	Create four habitat islands in water-covered areas	45	No		Mitigated Neg Dec 6/21/99
General Plan Update	City of Pittsburg	1&2	Pittsburg (Browns Island)	Update General Plan	N/A	N/A		NOP 7/27/99
Subdivision	Mahew Landing Assoc.	2	Hotchkiss Tract	Rezone A-2 (ag) to P-1 (planned district); create 16 lots on 10.7 ac; dedicate 69.7ac for wetland habitat	80	Yes; 80		Pre Com 12/30/98
Discharges from Wilbur Ave. East	GWF Power Systems	1&2	Antioch and San Joaquin River	At 18.5 mw power plant powered by petroleum coke,discharge approx. 270,000 gallons per day. Warm temperature and pollutants will be diluted by SJ River.	N/A	No		Draft Order 10/13/99 Project Amended 12/2/99

Map 1. A. Austin Creek State Recreation Area Watershed Improvement Project

Sonoma County, California



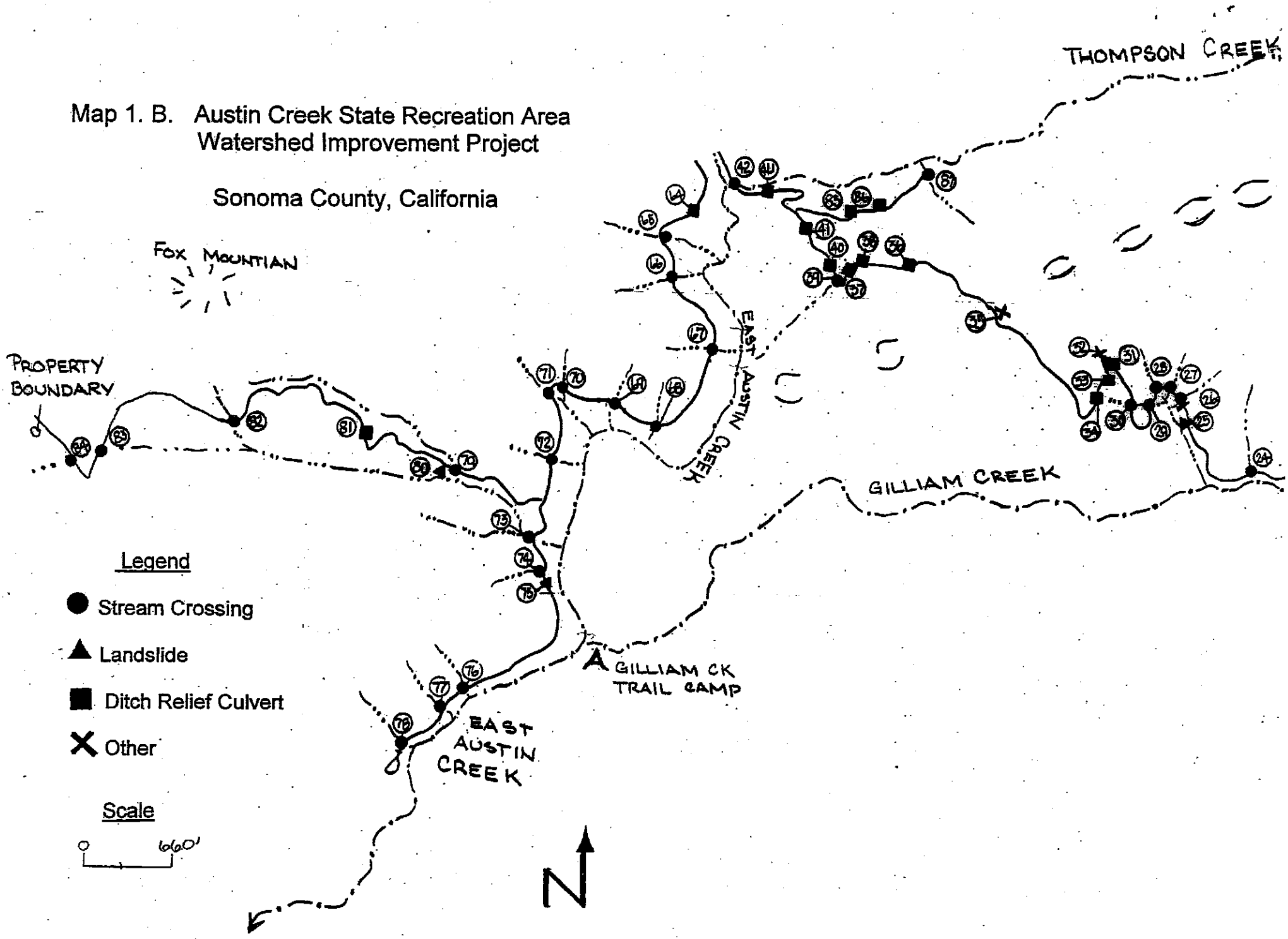
Source: Cazadero Quadrangle
USGS

CONTRA COSTA - cont.

Project Name	Applicant	Zone	Location	Project Description	Project Acres	Loss of Ag Land	Mitigation/Type	Status
Marina Expansion	Sugar Barge Resort & Marina	2	Bethel Island	Add 120 parking spaces and 80,800 square feet of dry boat storage sheds	5.46	Unk		Pre Com 2/20/00
Rezone & Subdivision	Storrer et al/ Schuler Homes of CA, Inc.	2	Discovery Bay West	Rezone from A-3 to P-1 for 220 homes	60	Yes		Pre Com 2/22/00
WDRs for Disposal of Imported Sludge & Treated Wastewater	Ironhouse Sanitary Dist.	1	Jersey Island	Allow ISD to import up to 2,300 dry tons/yr of sludge and treated effluent and place on all agricultural lands owned by ISD	2,800	No	Yes; monitoring	RWQCB 6/16/00
Expand New Sewage Treatment Plant	City of Brentwood	2	North of Brentwood; East of Marsh Creek	Expand existing plant from 1.8 to 2.2 mgd, and build new plant of 5 mgd capacity at existing site. Discharge on land and into Marsh Creek	Unk	No		FEIR 11/24/98 RWQCB 5/5/00
Biosolids Application	Futuretech/ Unimin	2	Byron Sand Mine	Place mixture of mine spoils, biosolids (800 cu yds/ac), and lime atop reclaimed areas about 1 foot deep; seed with fescue, oats, clover, fetch, and wildflowers	75			Neg Dec 5/6/97
Delta Science Center	Delta Science Center	2	ISD Lands South of Big Break	Construct a research and education center	Unk			NOP 5/27/97
Marina Expansion	Lazy M Marina	2	West of Clifton Court Forebay	Add restaurant, storage, two mobilehomes, dry boat storage, 14 trailer spaces, and camping area	Unk	No	Unk	Prelim. Com 6/7/99 Neg Dec expected 5/00

Map 1. B. Austin Creek State Recreation Area
Watershed Improvement Project

Sonoma County, California



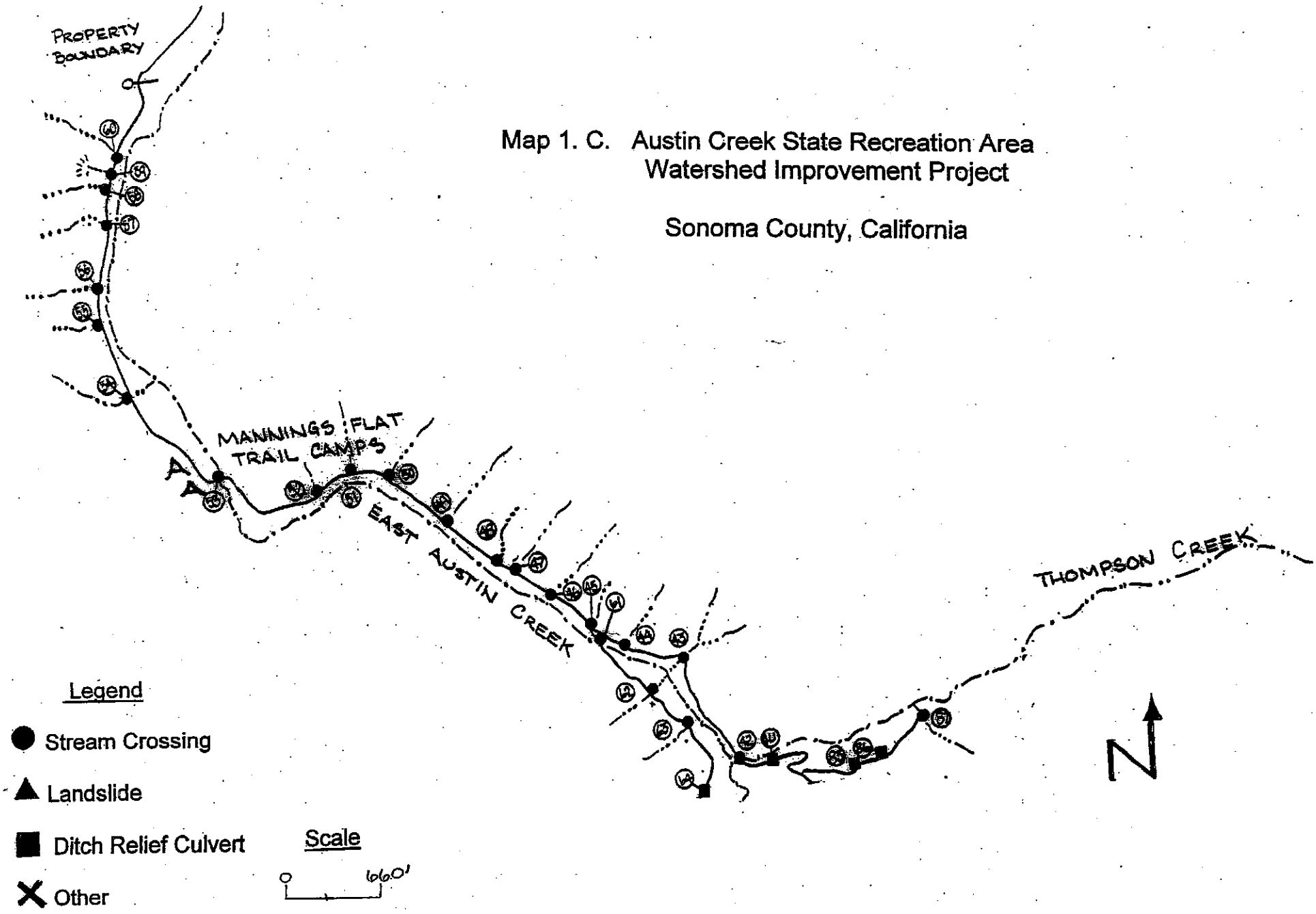
Source: Cazadero Quadrangle
USGS

CONTRA COSTA - cont.

Project Name	Applicant	Zone	Location	Project Description	Project Acres	Loss of Ag Land	Mitigation/Type	Status
Capital Improvement Program 2000-2005	City of Brentwood	2	Citywide, Brentwood	Inventory of proposed capital improvements (roadway, parks & trails, water & wastewater, community facility improvements) over a 5-year period	N/A			Neg Dec 4/14/00

Map 1. C. Austin Creek State Recreation Area
Watershed Improvement Project

Sonoma County, California



Source: Cazadero Quadrangle
USGS

SACRAMENTO

Project Name	Applicant	Zone	Location	Project Description	Project Acres	Loss of Ag Land	Mitigation/Type	Status
Amend Zoning Code: Recreation in Ag Zone	Sacramento County	1&2	Countywide-Ag Zone	Amend zoning code re: motorized (car, boat) in ag zone; SLO use permit be required for personal motorized recreation use in ag zone (staff = yes, planning commission = no)	N/A			PC 3/8/99 BOS 9/22/99 Approved 4/26/00
Grading/Aquaculture Pond	MKM Partners	1&2	9047 River Rd. (South of Freeport; East of Clarksburg)	Create 2,300 ft x 200 ft (10.5 ac) pond for aquaculture of catfish	60	Yes	Yes; monitor and control seepage	Neg Dec 7/6/99 Pub Works 8/14/99 BOS 5/24/00
Subdivision	Delta Habitat Land Company	1	Tyler Island	Divide 868.7 acres into ten lots including five lots between 10.5 ac and 14.1 ac in AG-80 zone	868.7			Pre Com 8/18/99 DCMAC 10/13/99 Neg Dec 12/29/99 PC May-00
General Plan Update	City of Isleton	2	Brannan-Andrus Island	New General Plan	Up to 400	Yes	Unk	NOP 2/9/98 BOS 4/5/00 City Council 4/19/00
Expand Sewage Treatment Plant	City of Isleton	2	South of Existing Plant	Expand treatment plant and construct new ponds	35	Yes; 35	Yes; Swainson's Hawk	Neg Dec 3/31/98

HANDBOOK FOR FOREST AND RANCH ROADS

A Guide for planning, designing, constructing, reconstructing, maintaining and closing wildland roads

PREPARED BY
WILLIAM E. WEAVER, PHD.
AND DANNY K. HAGANS
PACIFIC WATERSHED ASSOCIATES

FOR
THE MENDOCINO COUNTY RESOURCE CONSERVATION DISTRICT

IN COOPERATION WITH
THE CALIFORNIA DEPARTMENT OF FORESTRY AND FIRE PROTECTION
AND THE U.S.D.A. SOIL CONSERVATION SERVICE

JUNE 1994

All programs and services of the U.S.D.A. Soil Conservation Service, Mendocino County Resource Conservation District, and the California Department of Forestry and Fire Protection, are offered on a non-discriminatory basis, without regard to race, color, national origin, religion, sex, age, marital status, or disability.

SACRAMENTO - cont.

Project Name	Applicant	Zone	Location	Project Description	Project Acres	Loss of Ag Land	Mitigation/Type	Status
Levee Repair	RD 563/ Tyler Island	1	Along North Fork Mokelumne	Repair 2.5 miles using 95,000 cu yds of dredge material	N/A	No	Yes; Time of work is limited	Neg Dec 7/29/99
Waste Discharge Requirements	Sacramento Regional Wastewater Treatment Plant	1	Sac River, South of Freeport	Changes to WDRs [allows dry weather flows to 181 mgd/wet weather flows of 392 mgd]	N/A	No		RWQCB 3/17/00 postponed 'til 8/4/00 mtg.
Three Private Docks	M. Kaprielian	1	Terminous Rd. and Oxbow Dr., Andrus Island along Georgiana Slough	Three 50 ft x 6 ft fully retractable private docks	N/A	No	Unk	Pre Com 1/20/00
Dock and Walkway	City of Isleton	1	Waterside of Levee	1,400 sq ft fishing pier with 40 ft x 6 ft float; 10 ft x 100 ft tour boat float; parking; restrooms; 1200 ft x 5 ft walkway	N/A	No		Neg Dec 3/8/00 Approved 4/19/00
Rezone CO (F) to AG-80 (F)	Wildlands, Inc.	1	Kimball Island	Rezone mitigation bank lands and place under Williamson Act contract	103	No		Pre Com 12/28/99
Rezone from AG-80 to AG-40 and Boundary Line Adjustment	Miracle Land Company	1	Pierson Dist., River Road	Allow operation of two 40-ac parcels; merge remainder with larger parcel	160	No	No	Pre Com 3/22/00
Convert 30-man Labor Camp to Single Family Residence	G. Meyers	1	Vorden Rd. & River Road	Within existing buildings, convert 30-man labor camp to single family residence	80	No		Pre Com 3/15/00

CONSTRUCTION METHODS FOR FULLER CREEK WATERSHED SEDIMENT REDUCTION PLAN PHASE 1

A. STREAM CROSSING CULVERT INSTALLATION:

1. Culverts will be aligned with natural stream channels to ensure proper function, prevent bank erosions and debris plugging problems.
2. Culverts will be placed at the base of the fill and at the grade of the original streambed.
3. Culverts will be set slightly below the original stream grade so that the water drops several inches as it enters the pipe. (See Figure 69d.)
4. Culvert beds will be composed of rock-free soil or gravel, evenly distributed under the length of the pipe.
5. To allow for natural sagging after burial, a camber will be placed in the bed centered under the the middle of the pipe. The amount of camber will be between 1.5 to 3 inches per 10 ft. culvert pipe length.
6. Backfill material will be free of rocks, limbs or other debris that could dent the pipe or allow water to seep around pipe.
7. One end of the culvert pipe will covered then the other end. Once the ends have been secured, the center will be covered.
8. Backfill material will be tamped & compacted throughout the entire process.
   - Base & side wall material will be compacted before the pipe is placed in its bed.
   - Backfill compacting will be done in 0.5 -1 foot lifts until 1/3 of the diameter of the culvert has been covered (See Figure 69e). A gas powered tamper will be used for this work.
9. Inlets and outlets will be armored with rock and/or mulched and seeded with grass as needed.
10. Trash protectors will be installed just upstream from the culvert where there is a hazard of floating debris plugging the culvert.
11. Layers of fill will be pushed over the crossing until the final, design road grade is achieved, at a minimum of 1/3 to 1/2 the culvert diameter.

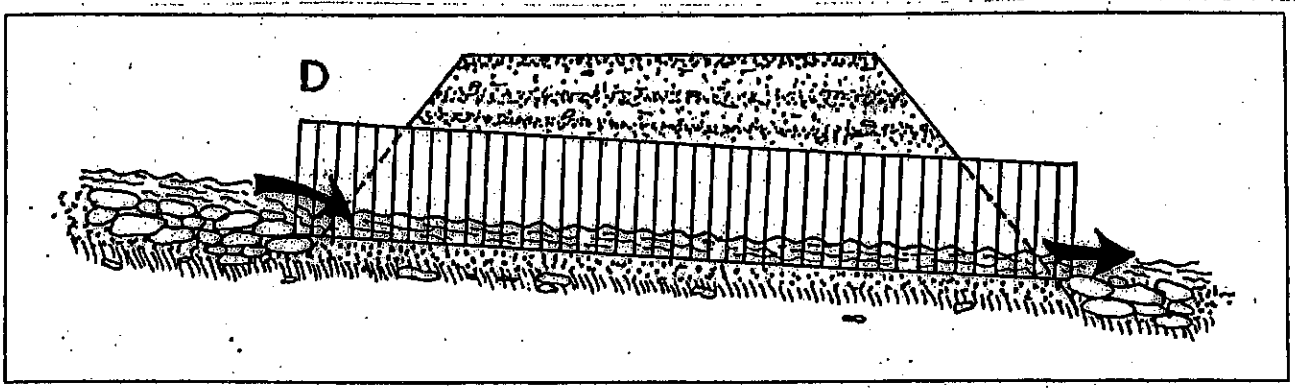


Figure 69d. Placed correctly (D), the culvert is set slightly below the original stream grade and protected with armor at the inlet and outlet.

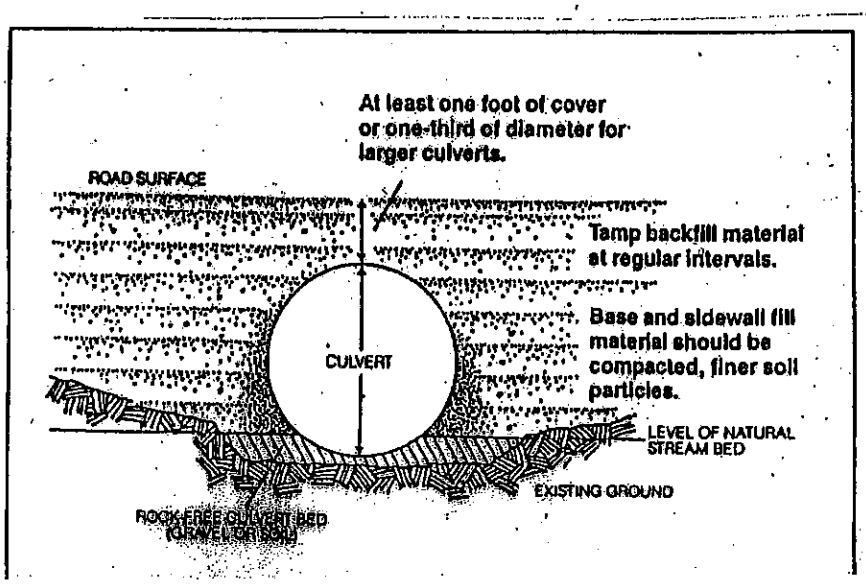


Figure 69e. Rock-free fill is backfilled over the culvert in layers and compacted under the pipe and around the sidewall (E).

From Forest and Ranch Road Handbook (PWA, 1994)

SACRAMENTO - cont.

Project Name	Applicant	Zone	Location	Project Description	Project Acres	Loss of Ag Land	Mitigation/Type	Status
Parcel Map, Lot Reduction Permit, Use Permit	Dick Varney	1	Pierson Tract; Alfalfa Plant Rd.	Create 20-ac & 43-ac parcels in AG-80 zone; use permit for animal feed pellet mill	63	No		Prelim. Com. 4/13/00

B. DITCH RELIEF CULVERT INSTALLATION:

1. The same basic steps followed for stream crossing culvert installation are to be used.
2. Culverts will be installed at a 30 degree angle to the ditch to lessen the chance of inlet erosion and plugging.
3. Culverts will be installed at a slope of 2-4 percent more than the ditch grade, or at least 5 inches every 10 ft. (see Figure 33.)
4. Culverts will be seated on the natural slope.
5. Backfill will be compacted from the bed to a depth of 1 foot or 1/3 of the culvert diameter, whichever is greater, over the top of the culvert.
6. Culvert outlets will extend beyond the base of the road fill (or a flume downspout will be used) and empty into an apron of rock, gravel or brush (see Figure 72).

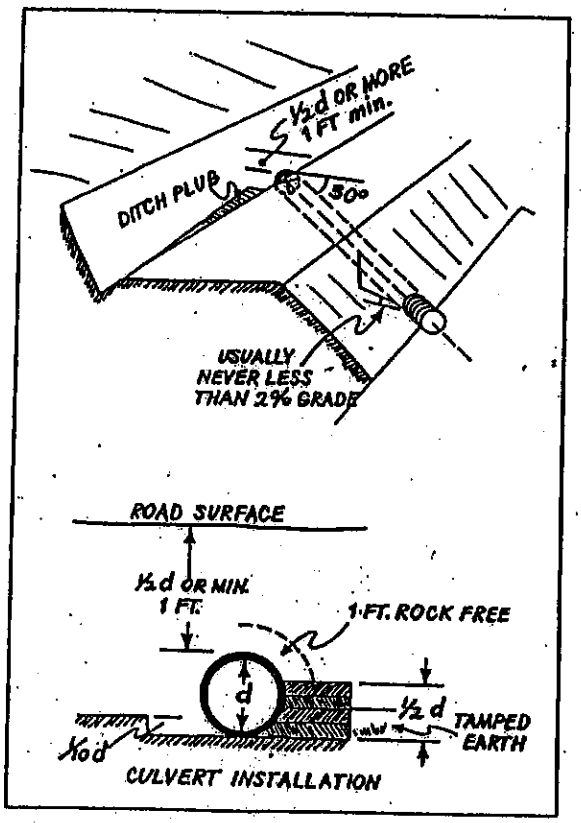


Figure 33. The elements of a properly installed ditch relief culvert. The culvert is angled at about 30 degrees to the road alignment to help capture flow and prevent culvert plugging or erosion of the inlet area. It is set at the base of the fill (ideally) or with a grade slightly steeper than the grade of the contributing ditch (but never with a grade less than 2 percent) (USDA-SCS, 1983).

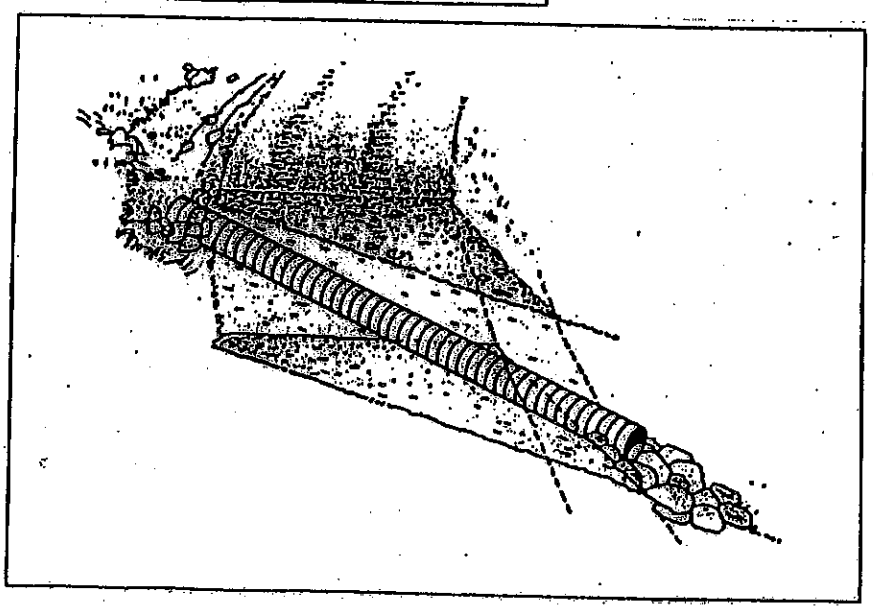


Figure 72. Like stream crossing culverts, ditch relief culverts should be installed at the base of the road fill, with armoring at the inlet and some type of energy dissipation at the outfall. If the culvert is placed higher in the fill, a downspout should be used to carry flow from the outlet downslope past the base of the fill (M.D.S.L., 1991).

From: FOREST AND RANCH ROAD HANDBOOK (PWA, 1994)

SAN JOAQUIN

Project Name	Applicant	Zone	Location	Project Description	Project Acres	Loss of Ag Land	Mitigation/Type	Status
Riverwalk Specific Plan, General Plan Amendment, Dvlpmt. Agreement, Annex-ation, Tentative Map, and Williamson Act Contract Canellation	Award Homes, Santa Clara, CA	2	West side of I-5 between Manthey Rd. and the San Joaquin River, North from De Lima Rd. to City of Lathrop's sphere of influence	342 acres of single-family homes, a 20-ac elementary school, two neighborhood parks totaling 12 acres, a 10-ac community park, a 10-ac open space corridor and detention basin adjacent to the San Joaquin River, and an 8-ac pedestrian/bicycle corridor	523	Yes; Unk	Unk	NOP 3/27/00
Master Plan: Water, Wastewater, and Reclaimed Wastewater	City of Lathrop	2	Lathrop	Master environmental document for future projects associated with water, wastewater, and reclaimed wastewater				NOP 8/19/98
Lower Mokelumne River Restoration Program	Woodbridge ID, U.S. Bureau of Reclamation	2	Lower Moke. R. (Comanche Dam to Cosumnes)	Improve fish passage; enhance riparian habitat; add fish screens	Unk	No		NOP 12/98 DEIR/EIS 10/29/99
Tracy Fish Facility Improvement Plan	U.S. Bureau of Reclamation/ DWR	2	Tracy Pumping Plant	Improve fish collection facility	N/A	No	No	Scoping mtg 3/17&18/99 Scoping rpt 6/24/99
Reconstruct Lagoon Filter Dike	RD 38	1	Staten Island, Northeast shore in South Fork Mokelumne R.	Retain 50 cu yds riprap and 439 cubic yards dredged sand		No		PN 3/30/99
Transfer Land	U.S. Navy	2	Rough and Ready Island, Stockton	Transfer/lease Navy property to Port of Stockton (1,383 ac) for Port expansion and INS (50 ac) for 500 bed detention facility	1,433	Yes; 150 ac	Unk	FONSI Approved 3/25/99

C. ROLLING DIP INSTALLATION:

1. Rolling dips will be installed in the road bed as needed to drain the road surface.
2. Rolling dips will be sloped either into the ditch or to the outside of the road edge as required to properly drain the road.
3. Rolling dips will be built at 30 - 45 degree angles to the road alignment with cross grade of at least 1 per cent greater than the grade of the road.
4. Excavation for the dips will be done with a medium size bulldozer (D-7 size).
5. Excavation for the dips will begin 50 to 100 feet up-road from where the axis of the dip is planned per guidelines established in Table 18 below.
6. Material will be progressively excavated from the road bed, steeping the grade until the axis is reached.
7. The depth of the dip will be determined by the grade of the road (See Table 18).
8. On the down-road side of the rolling dip axis a "grade change" will be installed to prevent the runoff from continuing down the road. (See Figure 28)
9. The rise in grade will be carried for about 10 to 20 feet then it will fall to the original slope.
10. The transition from axis bottom, through rising grade to falling grade will be in a road-distance of 15 to 30 ft.

Table 18. Table of rolling dip dimensions[1]

Road grade (%)	Upslope approach[2] (distance from up-road start of rolling dip to trough)(ft)	Reverse grade[2] (distance from trough to crest) (ft)	Depth below average road grade at discharge end of trough[2] (ft)	Depth below average road grade at upslope end of trough[2] (ft)
< 6	55	15-20	0.9	0.3
8	65	15-20	1.0	0.2
10	75	15-20	1.1	0.1
12	85	20-25	1.2	0.1
> 12	100	20-25	1.3	0.1

[1] *USDA-SCS (1981)*

[2] *See also Figure 28*

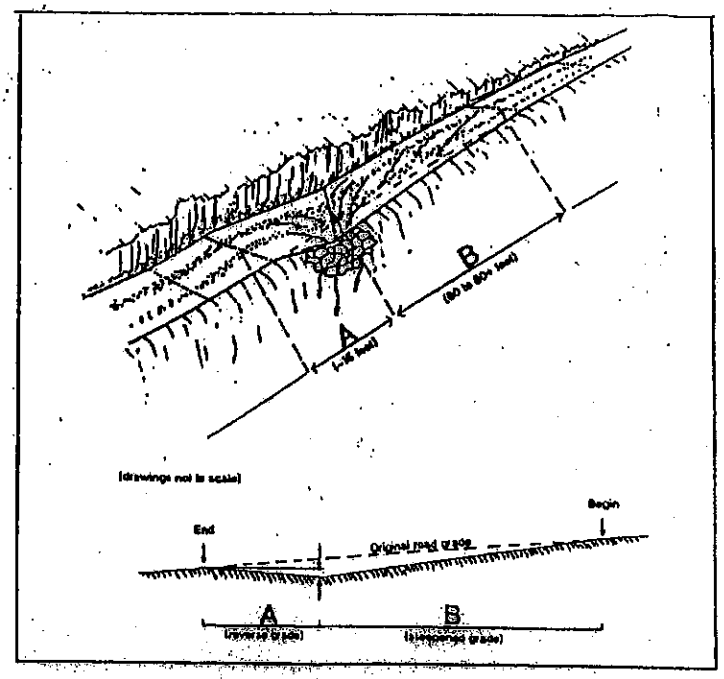


Figure 28. The up-road approach to the rolling dip (B) is several percent steeper than the approaching road and extends for 60 to 80 feet to the dip axis. The lower side of the structure (A) reverses grade over approximately 15 feet, and then falls down to rejoin the average road grade. It must be deep enough that it is not obliterated by normal grading, but not so deep that it is difficult to negotiate or a hazard to normal traffic. The outward cross-slope of the dip axis should be at least 1% greater than the original road grade so it will drain properly.

From: FOREST AND RANCH ROAD HANDBOOK (PWA, 1994)

SAN JOAQUIN - cont.

Project Name	Applicant	Zone	Location	Project Description	Project Acres	Loss of Ag Land	Mitigation/Type	Status
New Cross Levee	RD 2062 Stewart Tract	2	Northwest of I-5 on Stewart Tract	Build 8,000 ft long, 20 ft high, 100 ft wide levee	18.5	Yes		Neg Dec 4/99 NOP 8/13/99
Lost Isle	Lost Isle Partners	1	Acker Island, San Joaquin R.	Remodel and upgrade existing marina; docks, bar, kitchen, storage, stages, shop, warehouse, sports area	Unk	No	Unk	Pre Com 10/4/99
Habitat Conservation Plan	San Joaquin Council of Governments	1&2	San Joaquin County	The HCP would provide compensation for planned public and private urban and rural development activities through 2040		Yes		DEIR/EIS 9/23/99
Modify Head of Old River Temp. Barrier	DWR	1	Head of Old River	Relocate culvert structure to south end of temporary barrier; culvert structure to remain in place all year. Secured with pilings. Width of barrier to increase by 30 feet	N/A			PN 2/3/00 Approved Apr-00
Wastewater Treatment Plant Expansion	City of Tracy	1	Larch Rd. and Holly Dr., Tracy	Outfall released into Paradise Cut				NOP 1/12/00
Storm Drainage Master Plan	City of Tracy	1&2	10 sq mile area; discharge into Old River and Wickland Cut	In Secondary Zone, improve existing drainage and accommodate future flows. Includes: Westside Channel Outfall, improve Westside ID's main drain, build detention basins	2 lin mi of conveyance; 116 ac of det basins	Yes; Unk	Unk	NOP 3/6/00

D. OUTSLOPE ROAD INSTALLATION:

1. To determine the amount of "out-sloping" needed to drain the road surface the guidelines established in Table 16 (below) will be used. Outslope is determined by grade.
2. Most of the outsloping of roads have been designed and will be constructed with a minimum width and mild outslope (3-4%). (See Figure 20).
3. The outsloping will be done with grader.

Table 16. Outsloping "pitch" for roads up to 8% grade[1]

Road grade	Outslope "pitch" for unsurfaced roads	Outslope "pitch" for surfaced roads
4%, or less	3/8" per foot	1/2" per foot
5%	1/2" per foot	5/8" per foot
6%	5/8" per foot	3/4" per foot
7%	3/4" per foot	7/8" per foot
8%, or more	1" per foot	1¼" per foot

[1] *CDF (1984)*

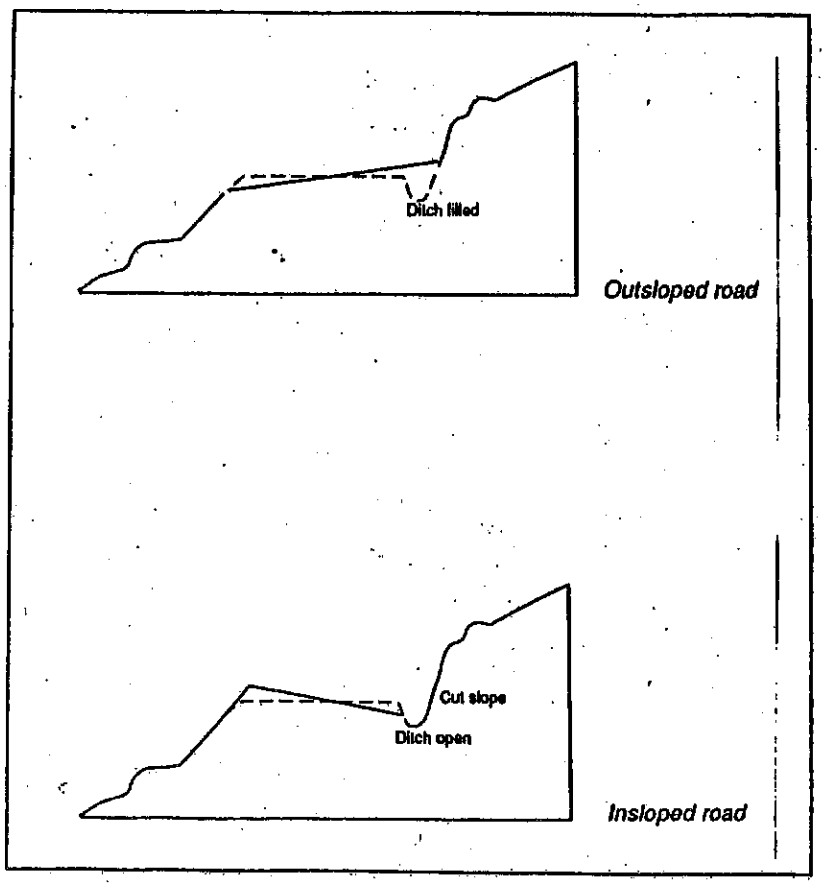
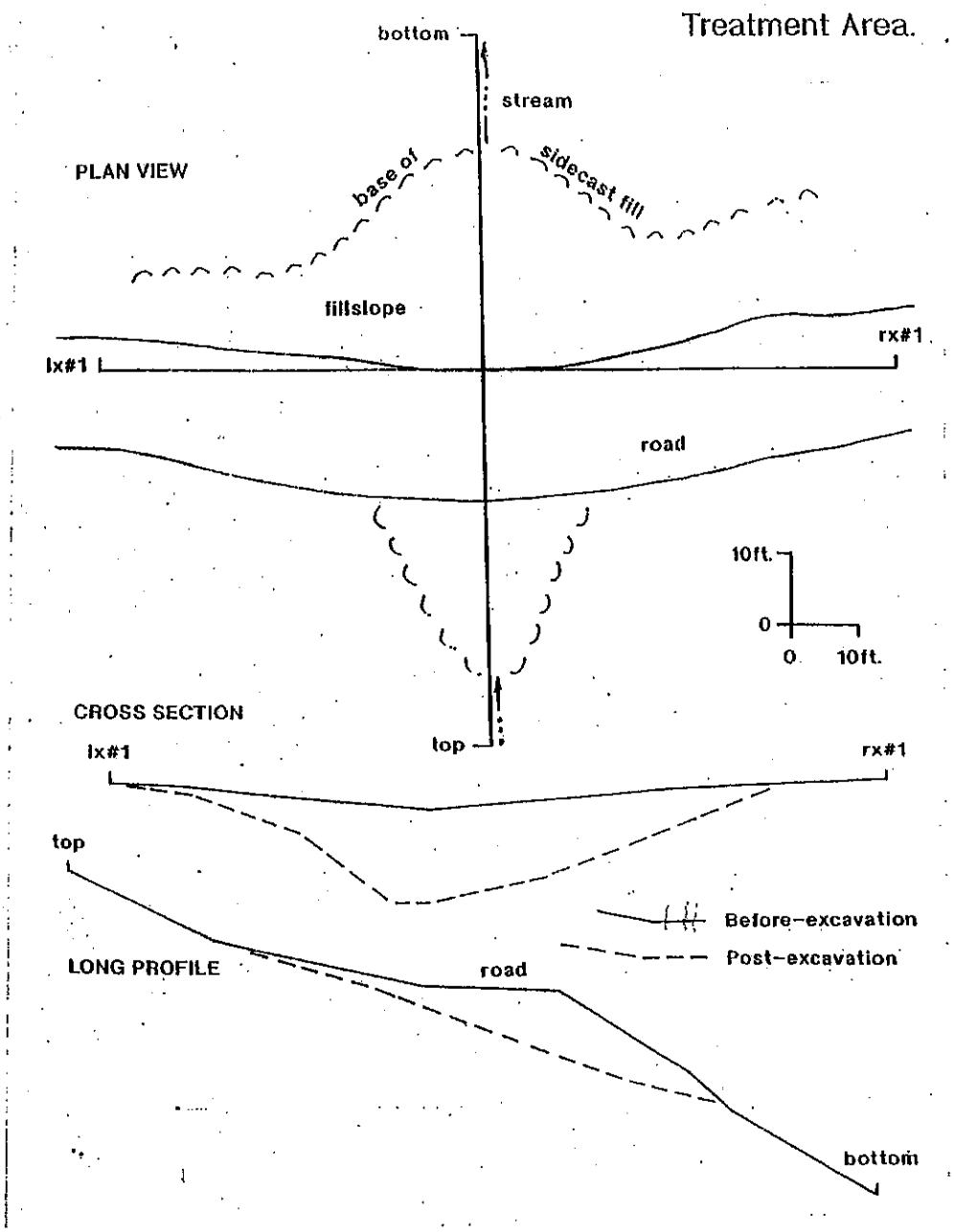


***Figure 20.** Outsloped road with no ditch (top), and insloped road with the ditch open (bottom). Outsloped roads are generally preferred because they disperse and drain surface runoff across the outer edge of the road prism. Insloped roads collect and concentrate road runoff into an "inboard" ditch that is drained across the road in ditch-relief culverts. Outsloped roads are superior except where seeps and springs necessitate short segments of inboard ditch to collect and remove runoff.*

FROM: FOREST AND RANCH ROAD HANDBOOK (PWA, 1994)

SAN JOAQUIN - cont.

Project Name	Applicant	Zone	Location	Project Description	Project Acres	Loss of Ag Land	Mitigation/Type	Status
Boathouse	CCRC Farms	1	NE Corner of Mandeville Island, in San Joaquin R.	Dredge 70 cu yds of material; construct 36' x 60' boathouse on 16 steel pilings.	N/A	No		PN 4/26/00



SALMON CREEK ROAD DECOMMISSIONING

TYPICAL PLAN VIEW, CROSS SECTION AND PROFILE DIAGRAMS

for

STREAM CROSSING EXCAVATION

Pacific Watershed Associates

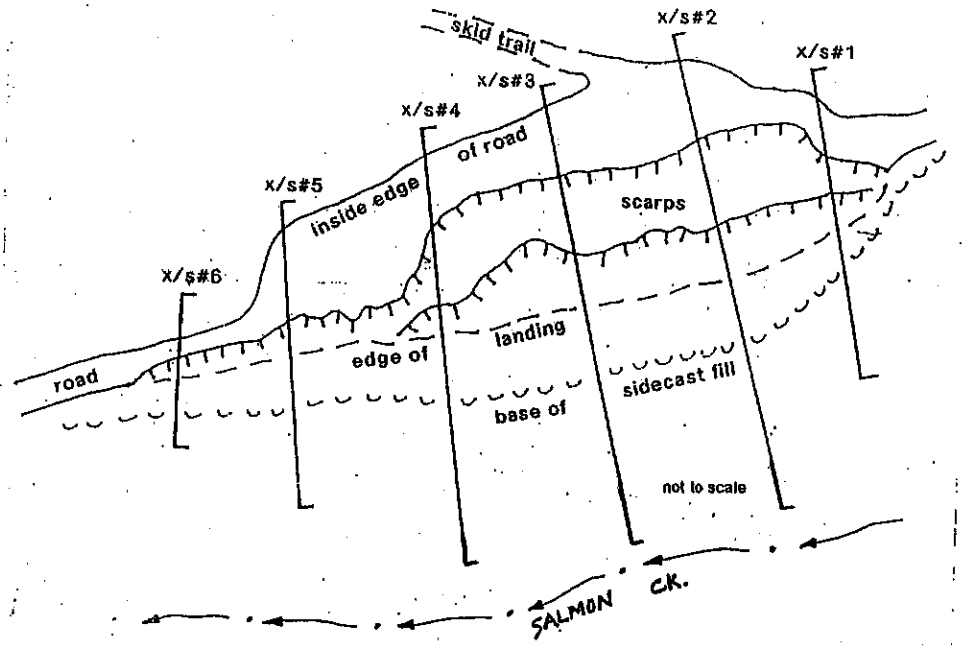
May, 1999

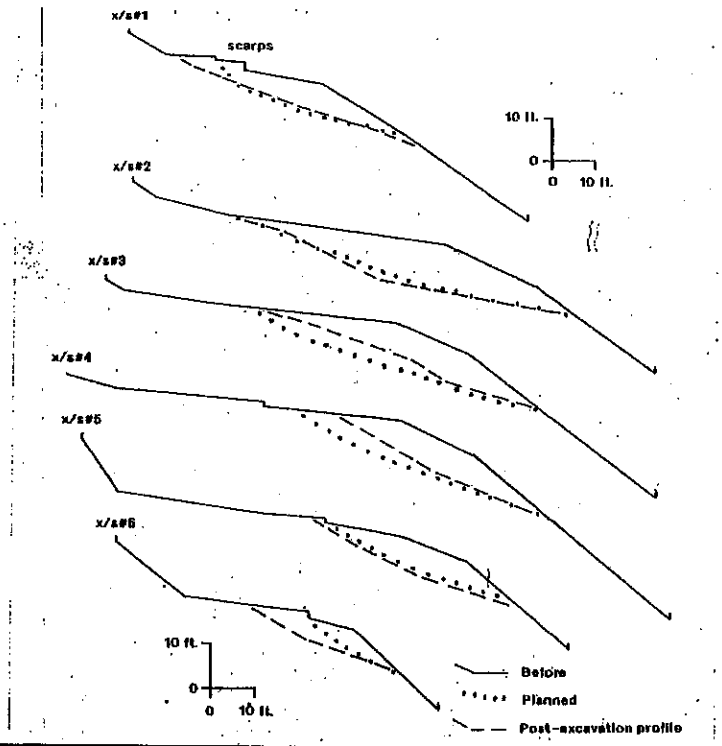
SOLANO

Project Name	Applicant	Zone	Location	Project Description	Project Acres	Loss of Ag Land	Mitigation/Type	Status
Water Diversions	Fairfield, Benecia, and Vacaville	1	Barker Slough; North Bay Aqueduct	Increase diversions by 31,620 ac-ft/yr to 66,720 ac-ft/yr (capacity of NBA is approx. 140,000 ac-ft/yr)	N/A	No		NOP 3/9/00

YOLO

Project Name	Applicant	Zone	Location	Project Description	Project Acres	Loss of Ag Land	Mitigation/Type	Status
1999 General Plan Update	City of West Sacramento	2	West Sacramento	Update of City's General Plan: includes recreation and access along Sac River; includes buffers between land uses				Draft Policy Document 2/10/99 NOP 10/26/99 Suppl. EIR 1/11/00 City Council May/Jun 00
Expand Sewage Treatment Plant	City of West Sacramento	1&2	South River Rd./ Outfall @ Clarksburg	Upgrade existing plant from 7.5 mgd to 15 mgd and build second outfall		No		Pre Com 2/25/00





SALMON CREEK ROAD DECOMMISSIONING

TYPICAL PLAN VIEW AND CROSS SECTION DIAGRAMS

for

FILLSLOPE AND LANDING EXCAVATIONS

Pacific Watershed Associates

May, 1999

MULTI-COUNTY

Project Name	Applicant	Zone	Location	Project Description	Project Acres	Loss of Ag Land	Mitigation/Type	Status
Delta Wetlands		1	Bacon, Bouldin, Holland, and Webb Tracts (Co Co and San Joaquin)	Use of Webb and Bacon Tracts as reservoirs up to 222,000 acre-feet per year. Create habitat on Bouldin & Holland. Build 38 private hunting/ recreation facilities, with 40 rooms and 66 berths each	19,226	Yes; 16,180	Yes; Bouldin/ Holland as habitat; set up research fund; screen intakes; control seepage	DEIR 9/95; PN 9/22/95 Hearings 7/8/98
Develop Water Rights Decision for Bay-Delta Estuary	SWRCB	1	Deltawide	Water rights proceedings to achieve Bay-Delta Plan	N/A	N/A	N/A	NOP 7/27/95 Decision D-1641 Approved Mar 15 2000
Bay-Delta Program	CALFED	1&2	Deltawide	Long-term comprehensive plan to restore ecological health and improve water management for beneficial uses of the Bay-Delta system	Unk	Yes	Yes	NOP 3/18/96 DEIR/EIS 3/16/98 Revised DEIR/EIS 6/22/99
North Delta National Wildlife Refuge	U.S. Fish and Wildlife Service	1	Prospect, Liberty, Little Holland, and others (Yolo and Solano)	Study 47,000 acre area	Up to 47,000	Unk	Unk	Pub Mtg 3/4/98 & 7/28/98 Env. Assmt 12/23/99

LISTED SPECIES

THAT MAY BE AT OR NEAR THE PROJECT WORK SITES

MULTI-COUNTY - cont.

Project Name	Applicant	Zone	Location	Project Description	Project Acres	Loss of Ag Land	Mitigation/Type	Status
Issue New NWPs and Modify 6 NWPs	Corps of Engineers	1&2	Nationwide	New NWPs include construction of passive recreation areas and reshaping existing drainage; NWP 3 (maintenance); 7 (outfalls); 12 (utilities); 27(stream & wetland restoration); 40 (agricultural activities)	N/A	No		Fed Reg 7/1/98 Revised 7/21/99 Revised 3/9/00
Statewide Requirements for Biosolids Land Application	SWRCB	1&2	Statewide	Statewide program for using biosolids in agriculture, silviculture, horticulture, and land reclamation	N/A	No		NOP 10/26/98 DEIR/EIS 6/25/99 Final EIR/EIS, Pub Wkshps exp. Jul/Aug 00
Egeria Densa Control Program	DBW	1&2	Deltawide	Develop mechanical and chemical control program	N/A	No		NOP 11/24/98 DEIR 4/10/00
Reconstruct Thornton Rd. Bridge	Sacramento and San Joaquin Co.	Out of Legal Delta	Thornton Rd. at Cosumnes River	Replace bridge and trestle	N/A	No	Protect bat habitat	Joint Agreemt Approved 5&6/98 NOP 12/22/98

California Department of Fish and Game
Natural Diversity Data Base

List of Elements and Status by Scientific Name

Scientific/Common Name	Federal/ State Status	Global/ State Rank	CNPS/ R-E-D	CDFG Status
ARBORIMUS POMO *RED TREE VOLE*	Species of Concern/ None	G4/ S3		SC
ARCTOSTAPHYLOS BAKERI SSP SUBLAEVIS *THE CEDARS MANZANITA*	None/ Rare	G2T2/ S2.2	1B/ 3-2-3	
CALOCHORTUS RAICHEI *THE CEDARS FAIRY-LANTERN*	Species of Concern/ None	G1/ S1.2	1B/ 3-2-3	
CAREX COMOSA *BRISTLY SEDGE*	None/ None	G5/ S1.1	2/ 3-3-1	
CHLOROGALUM POMERIDIANUM VAR MINUS *DWARF SOAPROOT*	None/ None	G5T1/ S1.2	1B/ 2-2-3	
ERIGERON ANGUSTATUS *NARROW-LEAVED DAISY*	None/ None	G2/ S2.2?	1B/ 2-2-3	
LINANTHUS JEPSONII *JEPSON'S LINANTHUS*	None/ None	G1/ S1.2	/	
RANA BOYLII *FOOTHILL YELLOW-LEGGED FROG*	Species of Concern/ None	G3/ S2S3		SC
STREPTANTHUS GLANDULOSUS VAR HOFFMANII *SECUND JEWEL-FLOWER*	Species of Concern/ None	G4T1Q/ S1.3	1B/ 3-1-3	
STREPTANTHUS MORRISONII *SEE INDIVIDUAL SUBSPECIES!*	None/ None	G2Q/ S2	/	
STRIX OCCIDENTALIS CAURINA *NORTHERN SPOTTED OWL*	Threatened/ None	G3T2/ S2		SC
SYNCARIS PACIFICA *CALIFORNIA FRESHWATER SHRIMP*	Endangered/ Endangered	G1/ S1		
TRIFOLIUM BUCKWESTIORUM *SANTA CRUZ CLOVER*	None/ None	G1/ S1.1	1B/ 3-3-3	

MULTI-COUNTY - cont.

Project Name	Applicant	Zone	Location	Project Description	Project Acres	Loss of Ag Land	Mitigation/Type	Status
Lodi Gas Storage Project	Western Hub Properties	1&2	Between 1,450 ac underground gas storage facility east of Hwy 99 near Acampo to PG&E Line 401 on Sherman	Construct 31-mile pipeline across Staten, Tyler, Brannan-Andrus, Twitchell, and Sherman Islands	Unk	Yes	Unk	NOP 2/17/99 Meetings 3/99 - 9/99 DEIR/EIS 9/27/99 Final EIR/S 2/15/00
Interim South Delta Program/ South Delta Improvements (CALFED Phase I)	DWR/ Bureau of Reclamation	1	Contra Costa and San Joaquin Co.	To settle litigation and increase water delivery capability of SWP: (1) intake structure at Clifton Court; (2) 1.25 million cu yds dredging at Old River; (3) fish control structure at mouth of Old River; (4) three control structures on Middle River, Grantline Canal, Old River; (5) increase pumping capability from 6,400 cfs to 10,300 cfs	633	Yes	Yes	DEIR Jul-96
Sacramento and San Joaquin River Basin Comprehensive Study	Rec Board/ Corps	1&2	Yolo Bypass, Sac River to Rio Vista; San Joaquin River to Stockton	Formulate master plans for flood damage reduction and integrated ecosystem restoration	Unk	Yes; Unk		NOP 6/23/99
Levee Repair	Corps	1&2	RD 765, RD 900, and RD 999	Levee Repair		Yes	Yes; 10.41 ac of new habitat	EA/IS 8/12/99 Canceled Apr-00

ACTION ITEM
Project Number 043
Sonoma County

Santa Rosa Creek Watershed Erosion Control and Prevention Implementation A, McCormick Sanctuary

The Contractor will provide $29,608 in funds or in-kind services to complete tasks described in paragraphs 1 - 8. The Department of Fish and Game will provide an amount not to exceed $61,620 as described in Exhibit B, Estimated Budget. Accurate records of in-kind funds or services will be made available to the Department of Fish and Game upon request at any time during the term of this agreement. Under direction of the Department of Fish and Game, and under the following conditions and terms the Contractor will:

1. Implement plans to upgrade the road network on McCormick Sanctuary within the Santa Rosa Creek watershed, located at T7N R6W sections 4, 5 6, and 9. 35 sites will receive road upgrading which will include proper installation of new culverts, improvements to the road drainage, and the use of specific road surface treatments, as outlined in Tables 2 and 3, and Exhibit C attached to this document.

2. Work performed by the contractor will include the following: 14 culvert replacements and upgrades to accommodate 50 year storm flows, 11 critical dips, conversion of 7 culvert and fill stream crossings to armored fill crossings (all class 1 and 2 streams), armoring of the fill face at 11 stream crossings, installation of 8 flared culvert inlets, installation of down spouts on culvert outlets, and trash racks at culvert inlets. Road treatments will include rolling dips, berm removal, outsloping roadbeds, and the installation of additional ditch relief culverts. Mulching, seeding and/or tree planting will occur following road upgrading. Areas included in revegetating will include fill slopes at stream crossings, fill slope excavations and where excess spoils are disposed of. No less than 2.5 acres of ground will be planted with weed free seed.

3. Erosion prevention work will require the removal of 1619 cubic yards of material.

4. Sites which are expected to erode and deliver sediment to the stream are the only locations where work will be authorized for reimbursement under the terms of this agreement. Reimbursement will not be authorized for work done to improve esthetic values only.

5. Culverts that are replaced in fish bearing reaches of streams will be done in such a manner that will allow for fish passage.

6. Removal of road and skid trails will include retrieving unstable material sidecast during previous road construction and excavation of stream crossings and other watercourse fill. Stream crossings will be excavated to original width, depth and

MULTI-COUNTY - cont.

Project Name	Applicant	Zone	Location	Project Description	Project Acres	Loss of Ag Land	Mitigation/Type	Status
Guardrails on Highway 160	CalTrans	1	Highway 160 between Paintersville Bridge (Courtland) and Sherman Island	Add guardrails on water side of Highway 160	N/A		No	Cat. Exemp. Feb-99 DPC 5/25/00
Dredging Selected Areas of South Delta	DWR	1	Contra Costa and San Joaquin Counties	Suction dredging of 97,000 cu yds from Tracy Oasis Marina, Del's Boat Harbor, Livermore & Mendota Yacht Clubs, Middleton, Hammer, and Little Hawaii Islands, and agricultural diversions on Grantline and Fabian-Bell Canals			Yes; avoidance, minimization, and replacement of lost shallow water habitat; and work windows (8/1/00 to 10/14/00)	Mitigated Neg Dec Feb-00

slope to expose natural channel morphology and armor. Side slopes will generally match original contours above and below the road.

7. When fill material is placed on road benches for permanent storage, the road bench will be ripped or decompacted first. The fill will then be placed against the cutbank and shaped to blend with the surrounding topography that existed prior to road construction. Outsloping of the roadbed will occur, as needed to reduce potential sediment delivery to the stream where there is insufficient fill available to recontour the site or where there is evidence that the overall long term stability of the site does not justify a full recontour treatment. Where practical, restored fill will be compacted to the top of the infilled cut to reduce the potential for seismically induced landsliding. Spoils material will be stored in stable locations where it will not erode. If stable spoils storage sites are not available within the project area, they will be end-hauled to a stable storage site outside of the project area. No side casting will occur where the potential for sediment delivery to stream channels exist.

8. All road upgrading or decommissioning will be done in accordance with techniques described in the "Handbook for Forest and Ranch Roads", (PWA,1994c).