



# WATERWAYS RESTORATION INSTITUTE

1250 Addison Street #107 ~ Berkeley ~ California ~ 94702 (510) 848-2211 Fax (510) 848-2219  
March 24, 2004

SFBRWQCB  
Attention: 401 Water Quality Certification  
1515 Clay Street  
Oakland, CA 04612



Subject: 401 Water Quality Certification for Lower Codornices Creek Restoration  
Project, Berkeley/Albany, California

Dear SFBRWQCB:

On behalf of the City of Albany, attached is the completed 401 Water Quality Certification form along with a check from the City of Albany for \$500.00 for permit costs for the Lower Codornices Creek Restoration Project in Albany/Berkeley, California. We have worked with Mr. Keith Lichten of your staff on this project to-date.

The Lower Codornices Creek Restoration Project was designed by the Waterways Restoration Institute (WRI) in conjunction with the Cities of Albany and Berkeley and the University of California (U.C.) under a collaborative process to restore approximately 3,000 feet of Lower Codornices Creek between San Pablo Avenue and the Union Pacific Railroad (UPRR) tracks, and construct a pedestrian/bicycle path linking to Berkeley, Albany and regional trail networks.

Codornices Creek is a perennial stream that drains the hills east of San Francisco Bay opposite the Golden Gate. The approximately 1.5 square mile watershed extends from the crest of the Berkeley Hills to San Francisco Bay. This project will also restore habitat and remove fish barriers on a potential steelhead bearing creek. To this application, we have also included a copy of the Biological Assessment report prepared by our fisheries biologist for the US Corps of Engineers and NOAA Fisheries permit application and a copy of the mitigated negative declaration prepared by Design Community and Environment (DCE) for the project.

We currently plan to begin construction on Phase I of the project June 15, 2004. Therefore, we request permit approval by this time. Please call me at 510-865-2840 anytime if you need any additional information or wish to conduct a site inspection.

Sincerely,

Roger Leventhal, P.E.

Director of Engineering, Waterways Restoration Institute

STATE OF CALIFORNIA – CALIFORNIA ENVIRONMENTAL PROTECTION AGENCY  
**SAN FRANCISCO BAY REGIONAL WATER QUALITY CONTROL BOARD**  
 1515 CLAY STREET, SUITE 1400  
 OAKLAND, CALIFORNIA 94612

**APPLICATION FOR 401 WATER QUALITY CERTIFICATION  
 AND/OR REPORT OF WASTE DISCHARGE**

(FORM R2C502-E)

<b>1. APPLICANT'S NAME</b> City Of Albany	<b>4. AUTHORIZED AGENT'S NAME AND TITLE</b> (an agent is not required) Roger Leventhal, Director Of Engineering, Wri
<b>2. APPLICANT'S ADDRESS</b> 1000 San Pablo Ave Albany, Ca 94706	<b>5. AGENT'S ADDRESS</b> 605 Addison Street, Suite B Berkeley, Ca 94710-1995
<b>3. APPLICANT'S PHONE &amp; FAX NOS.</b> (email optional) Ann Chaney Ph 528-5716; Fax 528-5797 Email Achaney@Albanyca.Org	<b>6. AGENT'S PHONE &amp; FAX NOS.</b> (email optional) 510-865-2840/510-644-2798 Fax: 644-2799 Email: Farwesteng@Aol.Com

**7. STATEMENT OF AUTHORIZATION**  
 I hereby authorize Roger Leventhal to act on my behalf as my agent in the processing of this application and to furnish upon request, supplemental information in support of this permit application.

Ann Chaney Community Development Director March 22, 2004  
 -----  
 APPLICANT'S SIGNATURE DATE  
 (This must be signed by the Applicant, not the authorized agent)

**PROJECT OR ACTIVITY INFORMATION**

<b>8. PROJECT NAME OR TITLE</b> (See Instructions.) Lower Codornices Creek Restoration Project		
<b>9. NAME OF AFFECTED WATERBODY(IES)</b> (See Instructions.) Codornices Creek	<b>10. PROJECT STREET ADDRESS</b> (if applicable) Codornices Creek between RR tracks and San Pablo Ave on the Berkeley/Albany border	
<b>11. LOCATION OF PROJECT</b> <u>Alameda</u> COUNTY	<u>Berkeley/Albany</u> CITY/TOWN (or unincorporated)	<u>Region 2 – San Francisco Bay</u> REGIONAL WATER BOARD REGION

**12. OTHER LOCATION DESCRIPTIONS** (watershed, latitude & longitude, river mile, etc. Attach map. See instructions.)  
 Codornices Creek watershed. See attached map

**13. DIRECTIONS TO THE SITE**  
 Take I-80 Gilman Ave exit; make left at 5th to 10th streets and the creek is approximately 3-4 blocks.

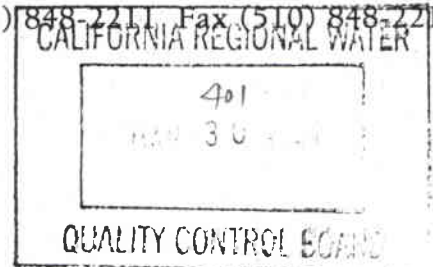
**14. PROJECT PURPOSE** (Describe the reason or purpose for the overall project. See instructions.)  
 Creek restoration including expansion of creek right of way, establishment of creek meanders and habitat, removal of invasive plants and revegetation with native plants. Also, construction of public trail.

**15. DESCRIPTION OF ACTIVITY AND ENVIRONMENTAL IMPACTS** (Provide a full, technically accurate description of the entire activity and associated environmental impacts. See instructions.)  
 Excavation of restored meandering creek channel and floodplain in accordance with 2001 Codornices Creek Restoration Plan prepared by WRI and modified as shown on attached plans to meet right of way modifications for Albany ballfield and UCB properties. Work includes the following items:



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1515 Clay Street  
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Dear SFBRWQCB:

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THE FACE OF THIS CHECK HAS A SECURITY VOID BACKGROUND PATTERN - DO NOT CASH IF THE WORD VOID IS VISIBLE



*City of Albany*

1000 SAN PABLO AVE., • ALBANY, CALIFORNIA 94706

THE MECHANICS BANK  
Washington and San Pablo Avenue  
Albany, California 94706

90-203  
1211

No. 067860

PAY \*\*\*\*\*500\*DOLLARS\*AND\*00\*CENTS\*\*

CHECK DATE  
03/26/04

PAY EXACTLY  
\*\*\*\*\*500.00\*

\*Five Hundred\*\*\*\*\*

TO THE ORDER OF

SAN FRANCISCO BAY REGIONAL  
WATER QUALITY CONTROL BOARD  
1515 CLAY STREET, SUITE 1400  
OAKLAND CA 94612

*Kim Denton*

VOID AFTER 90 DAYS

SAN05 PY-PC

⑈067860⑈ ⑆121102036⑆ 005⑈029813⑈

Codornices Creek Adjacent Property Owners

March 21, 2004

South Side of Creek (City of Berkeley)										
Accessors Parcel Number	street #	street name	city	state	zip	owners name	owners address	owners city	state	zip
060 239000106	1172	SAN PABLO AVE	BERKELEY	CA	94710	PAKZAD FARAMARZ & JALEH P TRS	915 OXFORD ST	Berkeley	CA	94707
060 238600100	1150	EIGHTH ST	BERKELEY	CA	94710	UNITED STATES POSTAL SERVICE	395 OYSTER POINT BL 225	S. San Fran	CA	94080
060 239000200	1172	SAN PABLO AVE	BERKELEY	CA	94710	PAKZAD FARAMARZ & JALEH P TRS	915 OXFORD ST	Berkeley	CA	94707
060 239000107	1101	TENTH ST	BERKELEY	CA	94710	DOLE DANIEL H	1101 10TH ST	Berkeley	CA	94710
060 238900200	1102	TENTH ST	BERKELEY	CA	94710	S & C BRODSKY PARTNERSHIP	1005 HARRISON ST	Berkeley	CA	94710
060 238900801	1005	HARRISON ST	BERKELEY	CA	94710	BRODSKY MERLE ETAL	1005 HARRISON ST	Berkeley	CA	94710
060 238800400	1101	EIGHTH ST	BERKELEY	CA	94710	1101 8TH STREET LLC	1300 SOUTH 51ST ST	Richmond	CA	94804
060 238500912	1102	SIXTH ST	BERKELEY	CA	94710	ERLBAUM DONALD TRUSTEE	7124 HEMLOCK ST	Oakland	CA	94611
060 238500909	1101	FIFTH ST	BERKELEY	CA	94710	BRYANT LABORATORY INC	1101 5TH ST	Berkeley	CA	94710
060 238300101	1100	FOURTH ST	BERKELEY	CA	94710	CITY OF BERKELEY	2180 MILVIA ST	Berkeley	CA	94704
North Side of Creek (City of Albany)										
066-2692-02-06	UC property from RR tracks to San Pablo Avenue		BERKELEY	CA	94710	Regents of the University of California	1111 Franklin Street, 6th floor	Oakland	CA	94607
066-2692-03	UC property from RR tracks to San Pablo Avenue		BERKELEY	CA	94710	Regents of the University of California	1111 Franklin Street, 6th floor	Oakland	CA	94607



# USGS Map

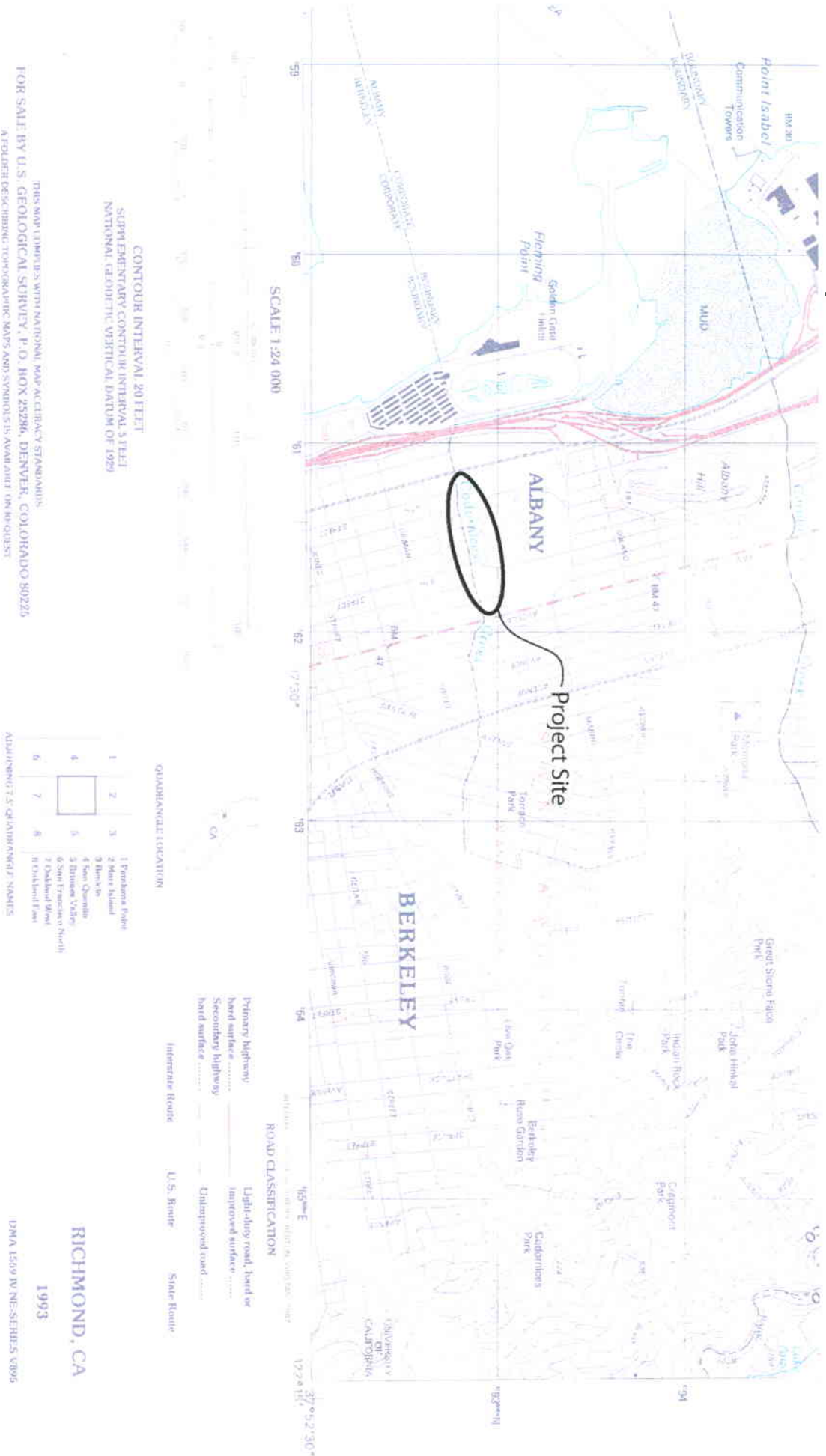


Fig. 1

# Codornices Creek Watershed Map

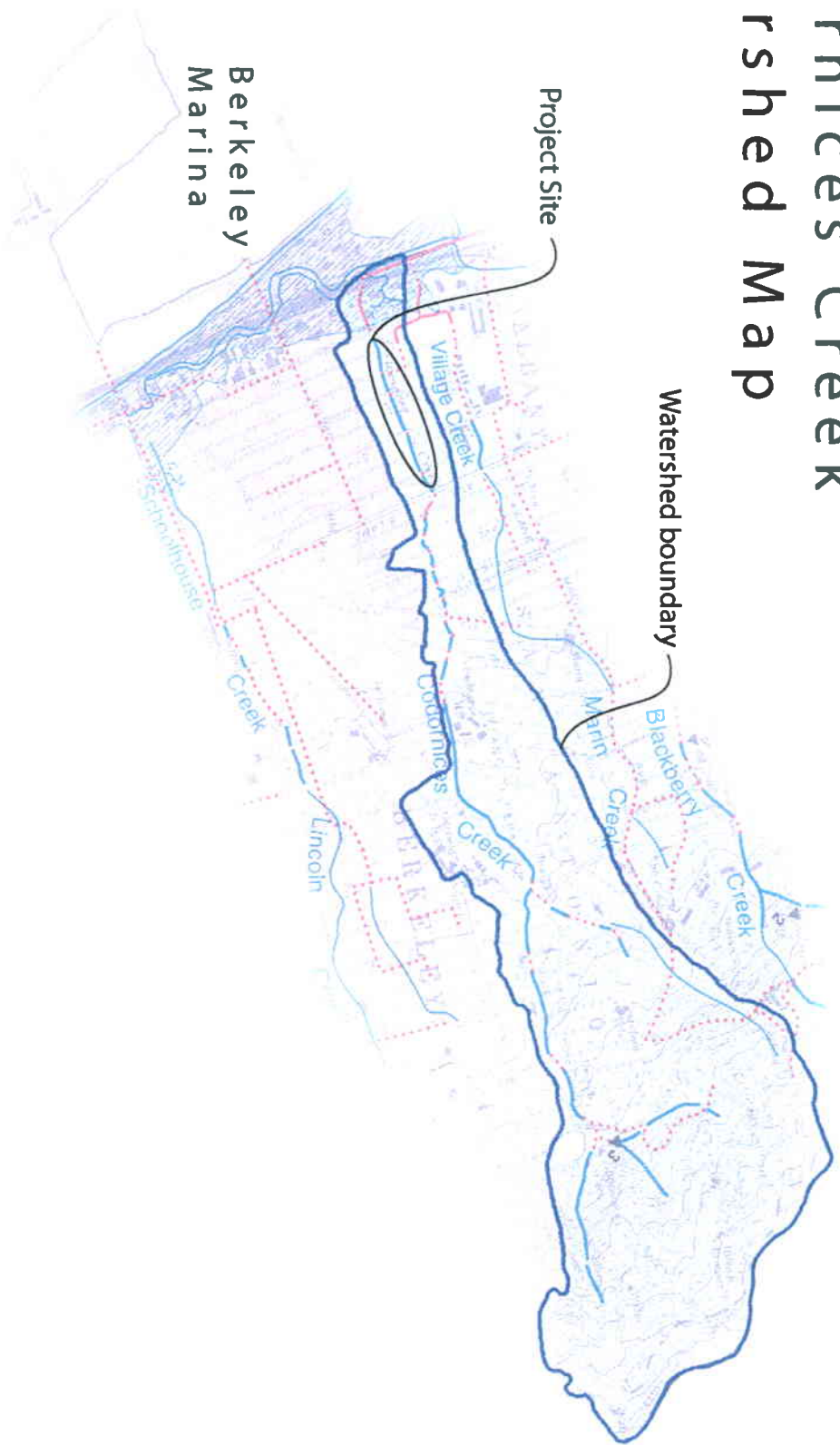


Fig. 2



# Site Map

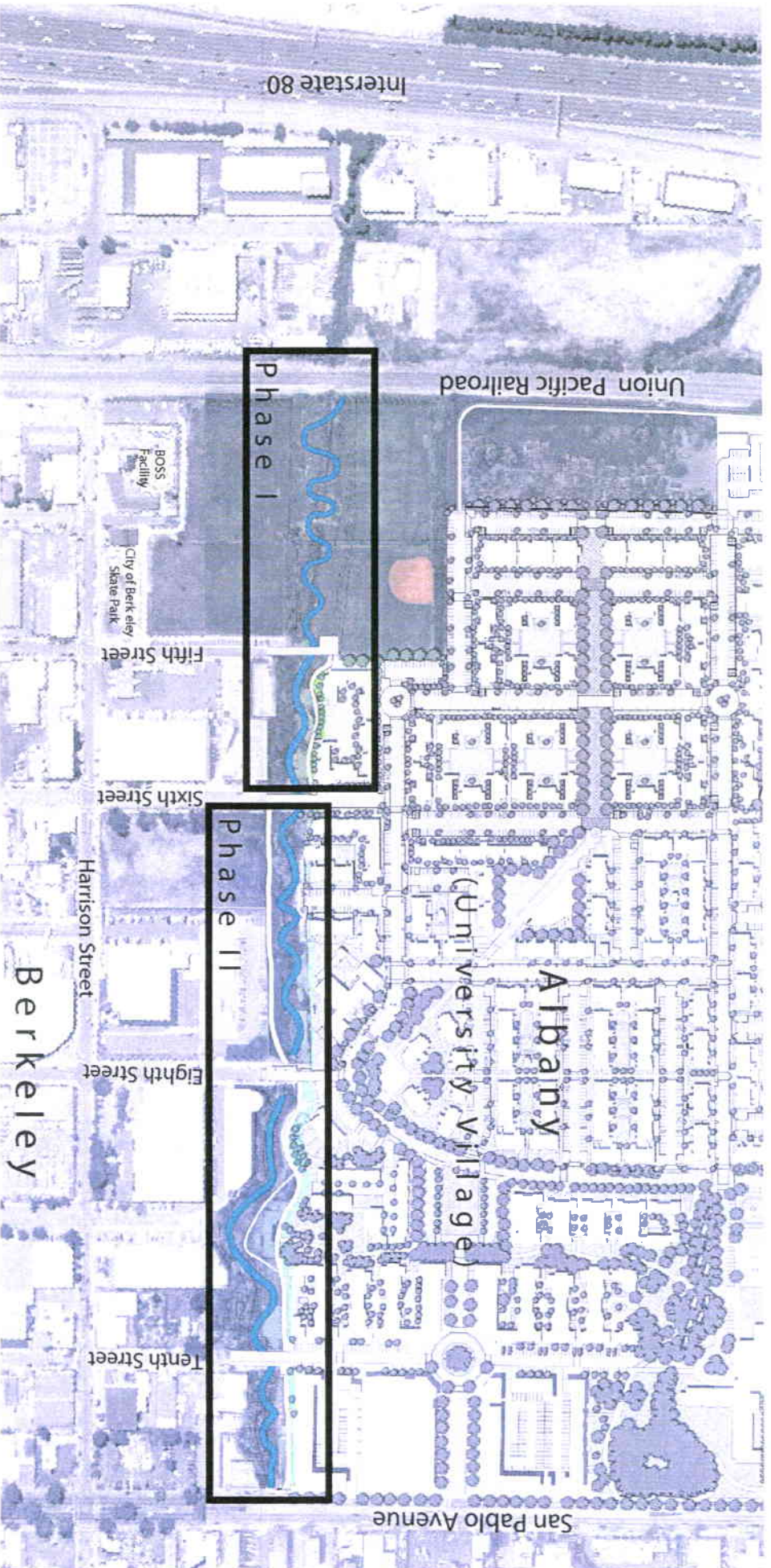
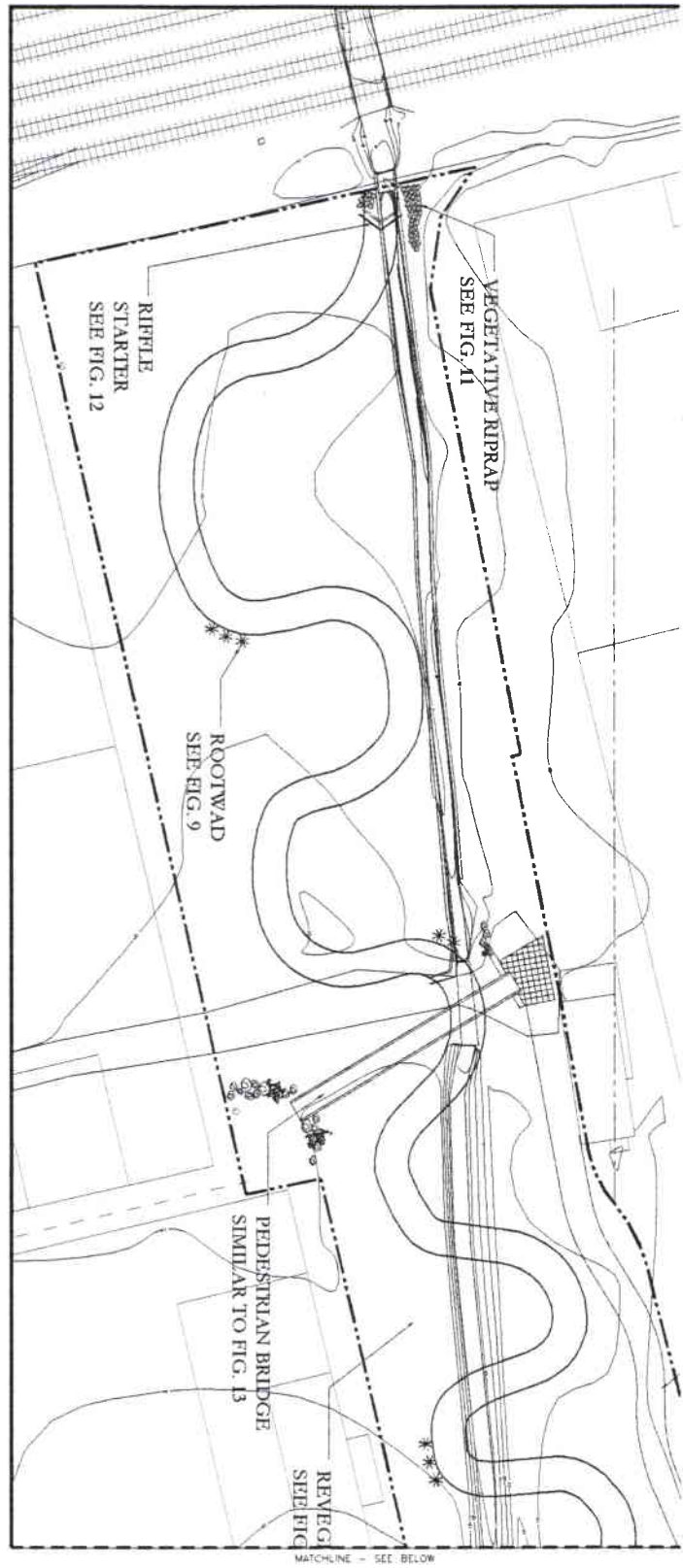
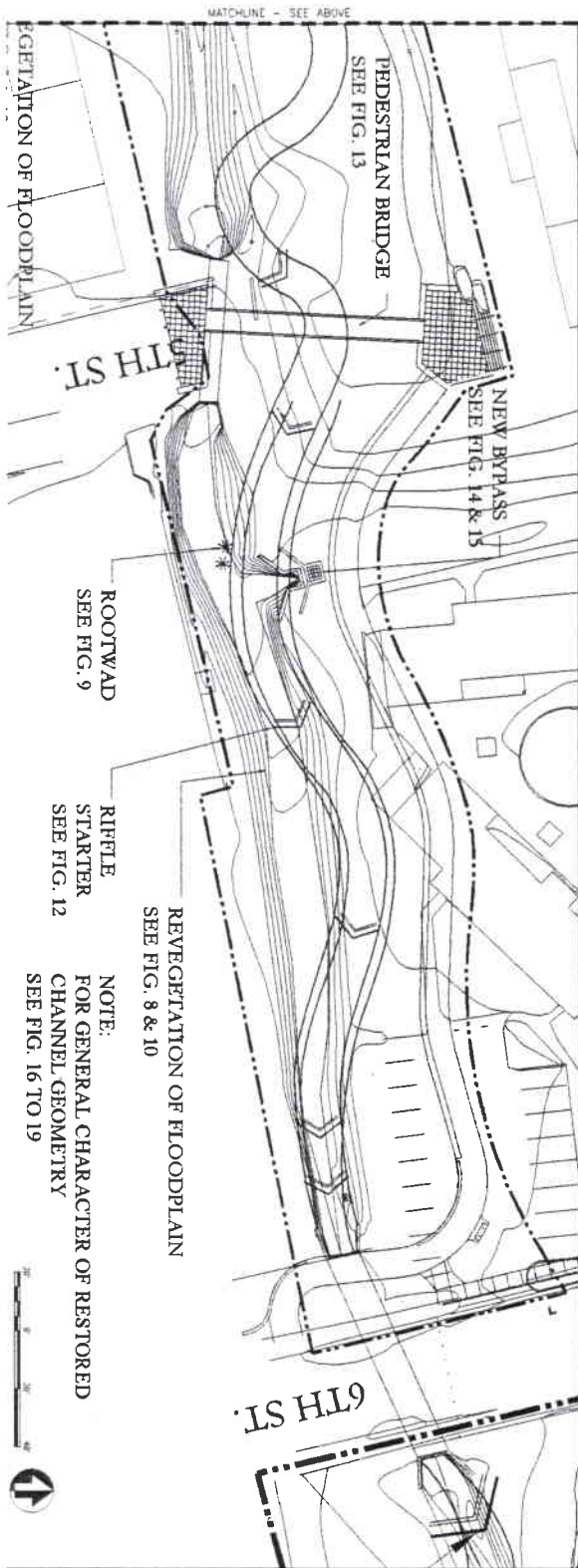


Fig. 3



# PHASE I SITE PLAN

## CODORNICES CREEK PROJECT

CITY OF ALBANY, CITY OF BERKELEY,  
UNIVERSITY OF CALIFORNIA & WATERWAYS  
RESTORATION INSTITUTE



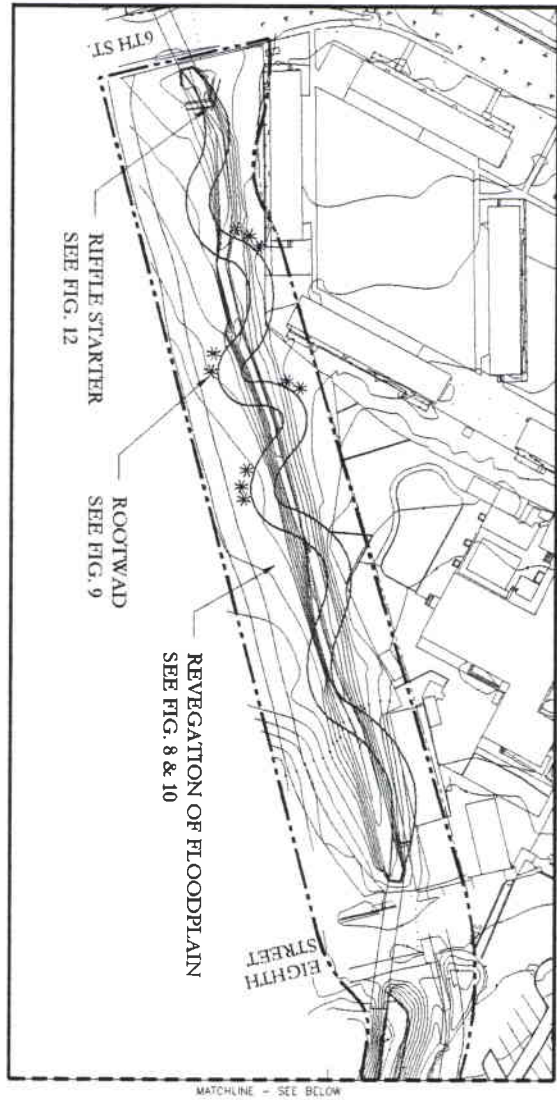
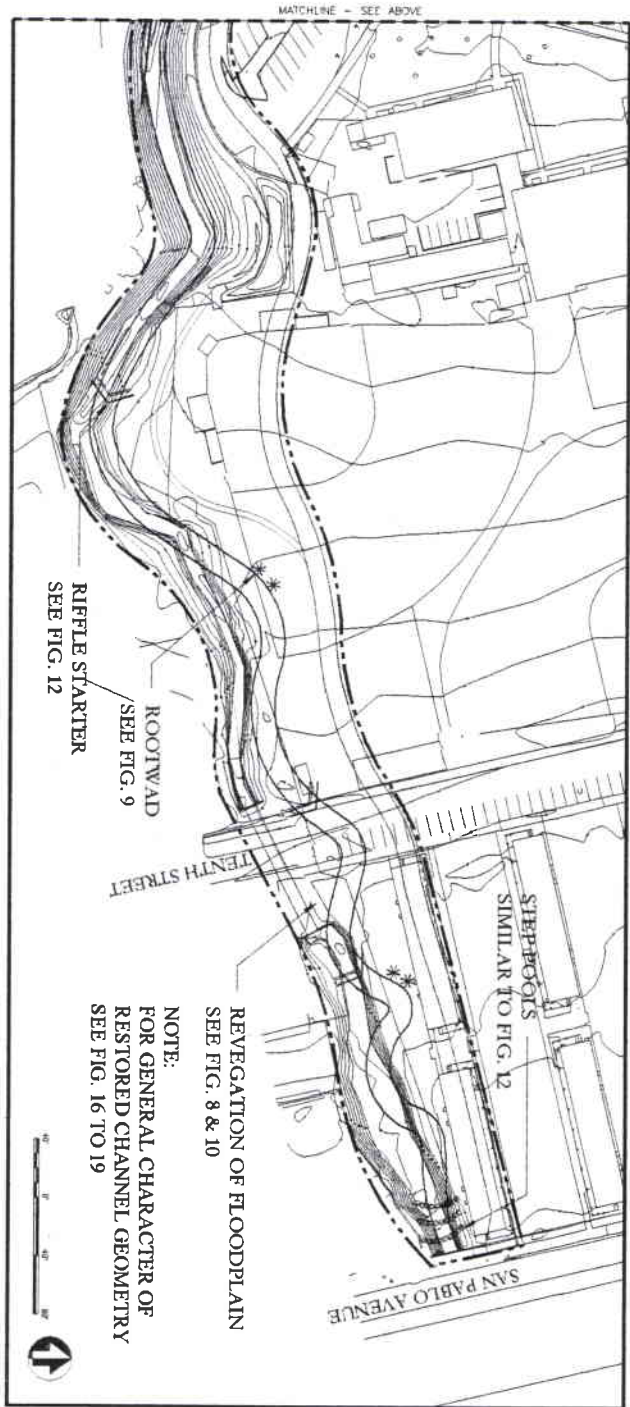


FIG. 5

PHASE II  
SITE PLAN

CODORNICES CREEK PROJECT

CITY OF ALBANY, CITY OF BERKELEY,  
UNIVERSITY OF CALIFORNIA & WATERWAYS  
RESTORATION INSTITUTE

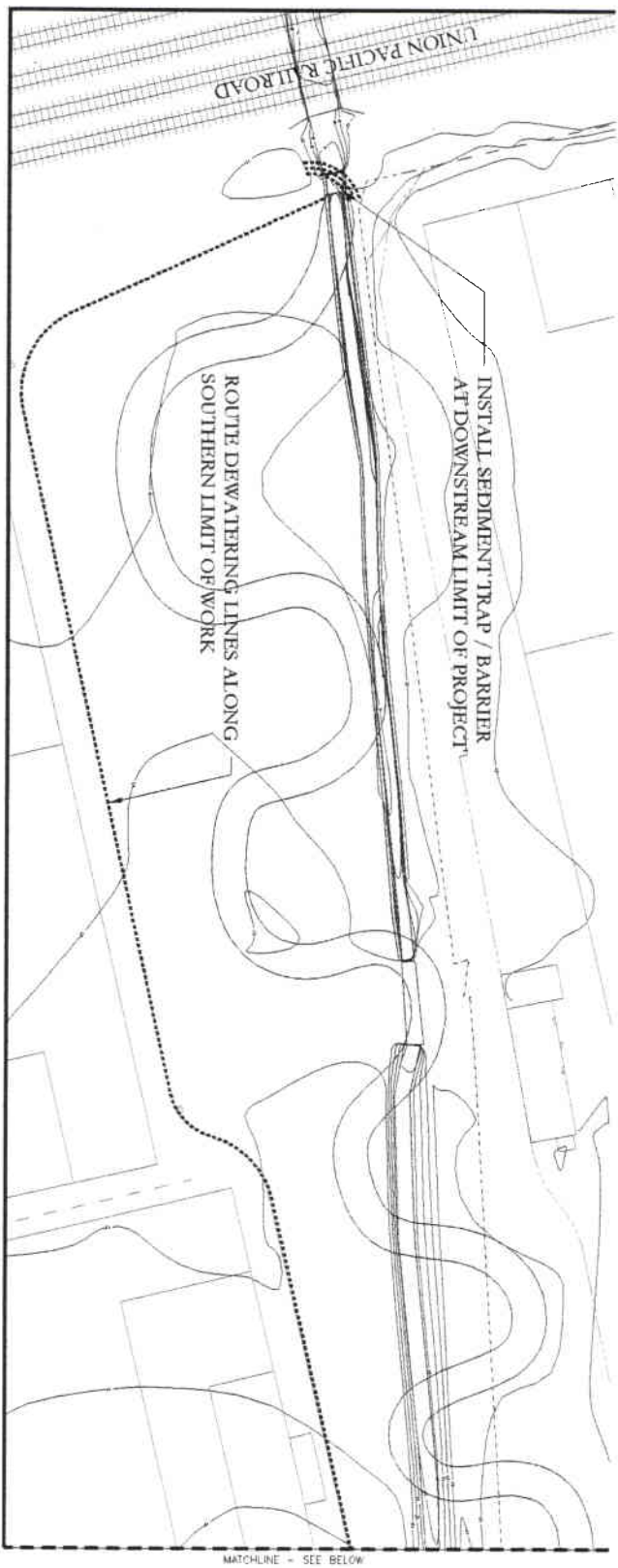
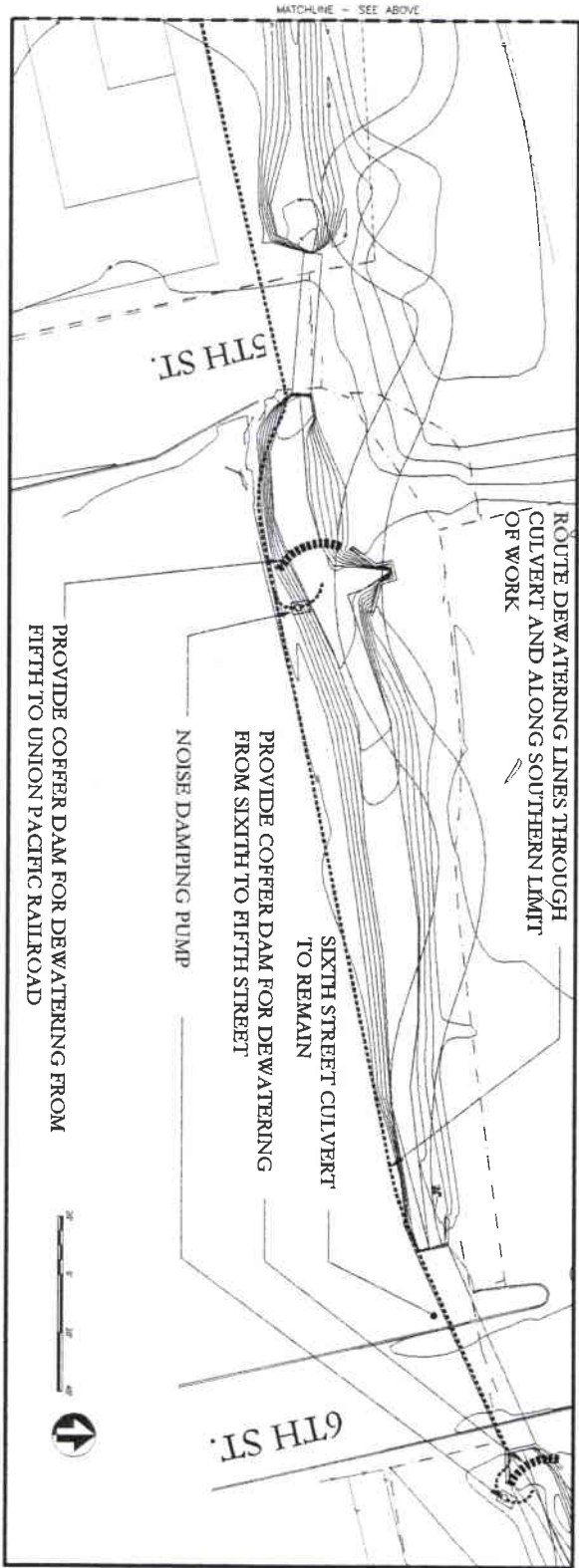
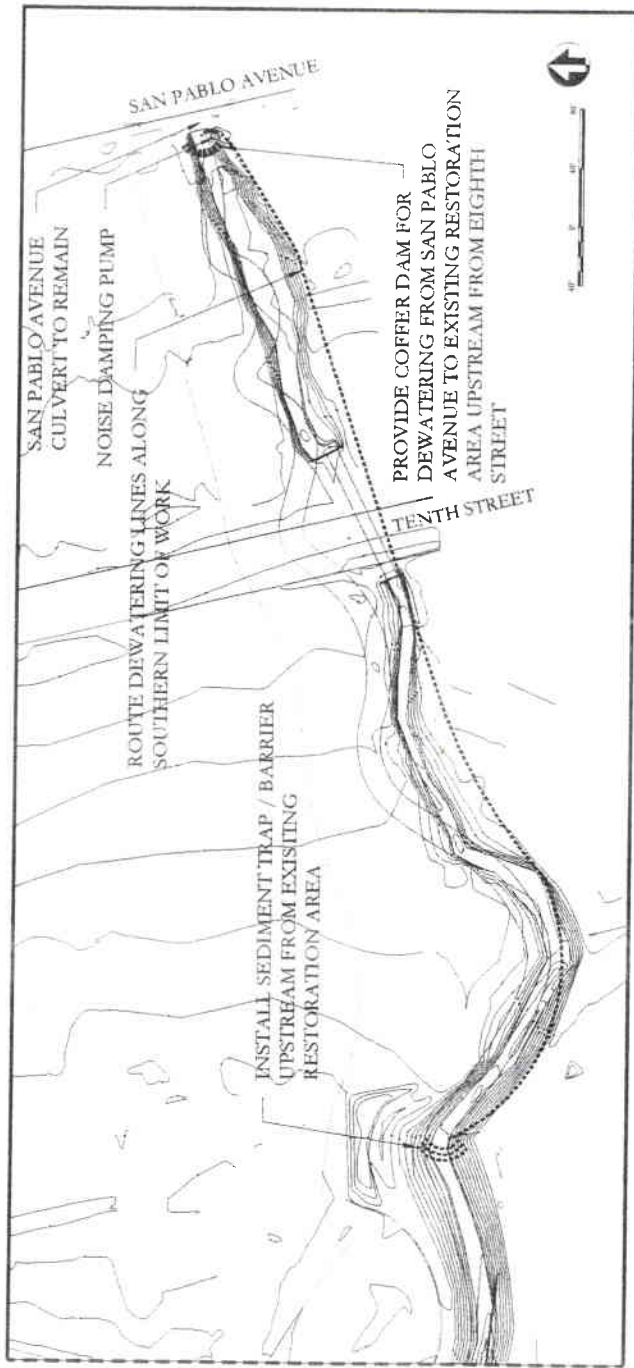
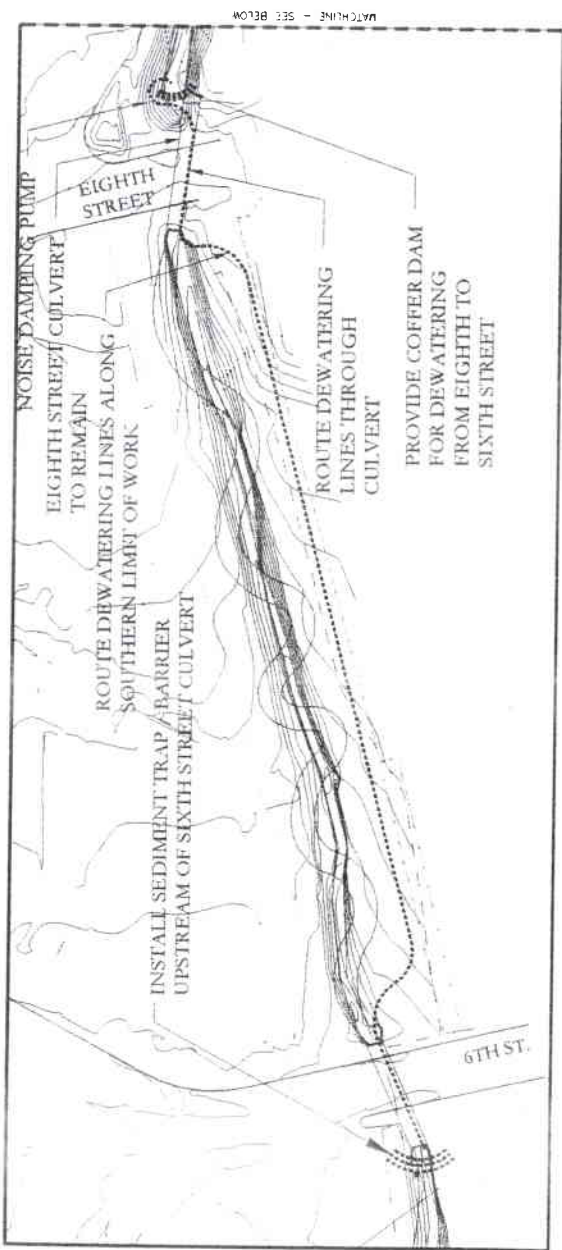


FIG. 6 PHASE I DEWATERING PLAN

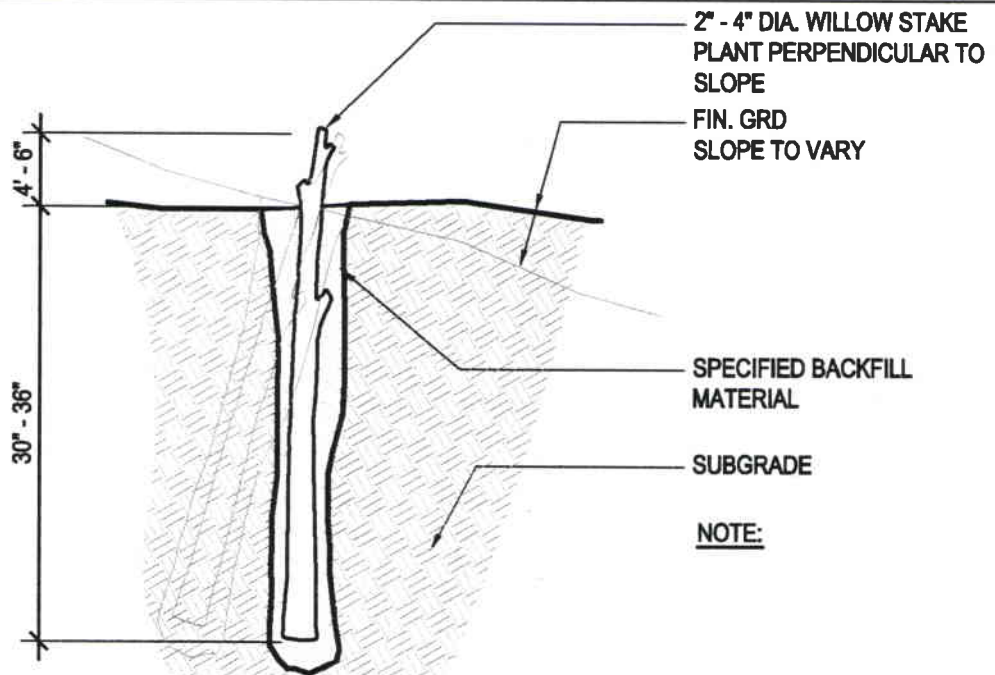
CODORNICES CREEK PROJECT  
 CITY OF ALBANY, CITY OF BERKELEY,  
 UNIVERSITY OF CALIFORNIA & WATERWAYS  
 RESTORATION INSTITUTE

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 CITY OF ALBANY, CITY OF BERKELEY,  
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PHASE II  
 DEWATERING PLAN  
 FIG. 7







2" - 4" DIA. WILLOW STAKE  
PLANT PERPENDICULAR TO  
SLOPE  
FIN. GRD  
SLOPE TO VARY

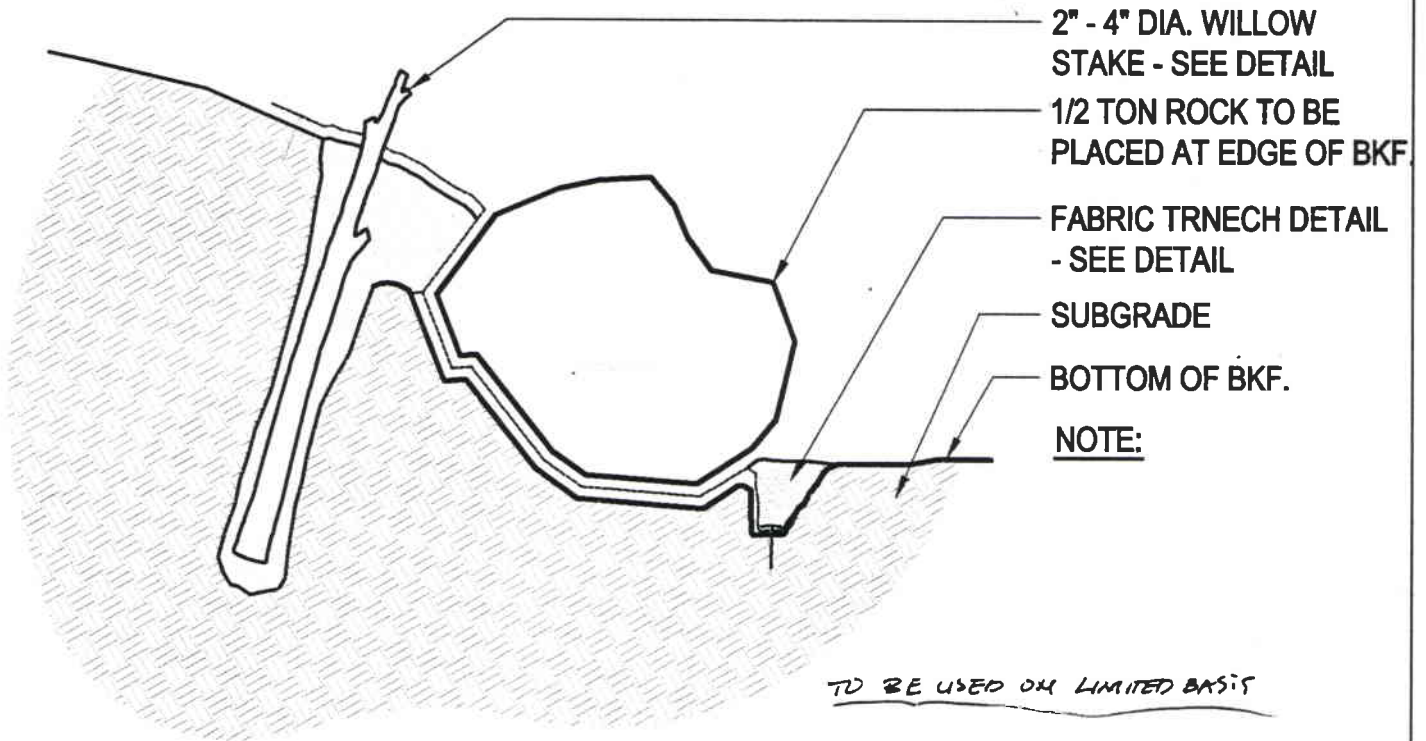
SPECIFIED BACKFILL  
MATERIAL

SUBGRADE

NOTE:

LIVE POLE CUTTING - TYPICAL

*TO BE PLANTED THROUGHOUT FLOODPLAIN*



2" - 4" DIA. WILLOW  
STAKE - SEE DETAIL

1/2 TON ROCK TO BE  
PLACED AT EDGE OF BKF.

FABRIC TRNECH DETAIL  
- SEE DETAIL

SUBGRADE

BOTTOM OF BKF.

NOTE:

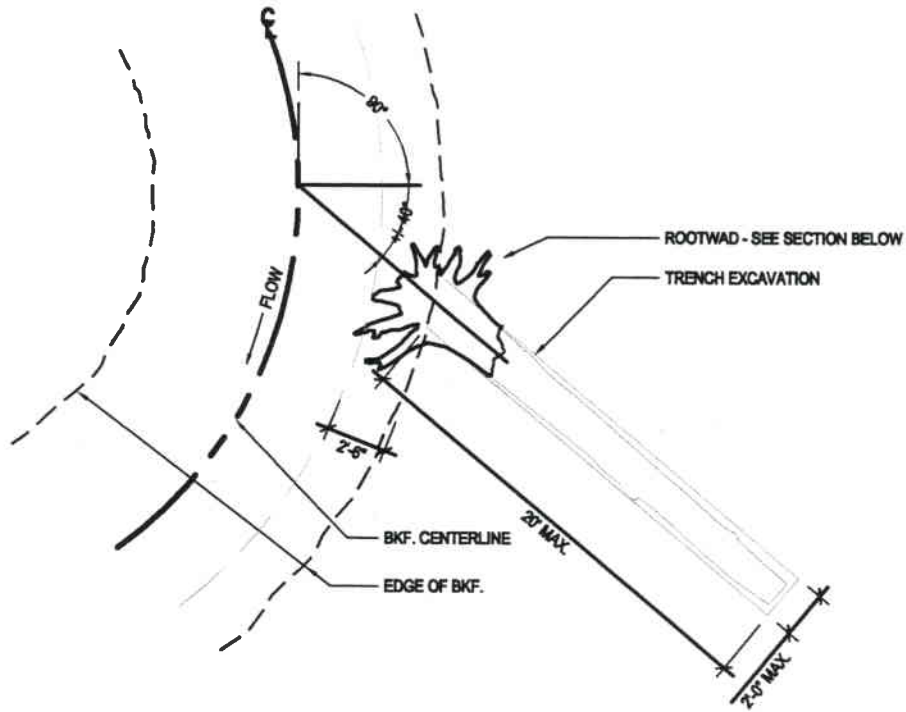
*TO BE USED ON LIMITED BASIS*

LIVE POLE CUTTING WITH ROCK

**LIVE POLE CUTTING**

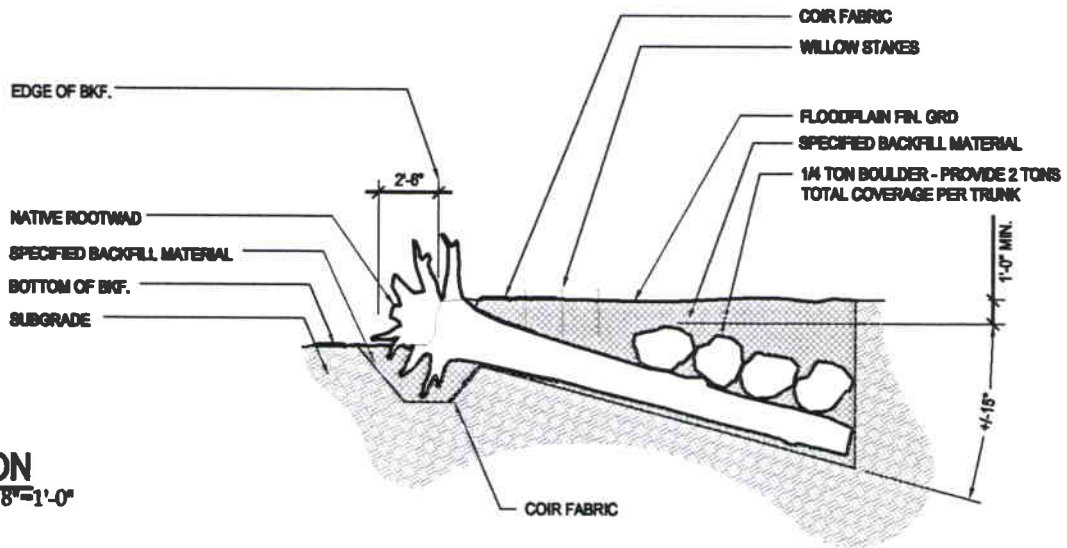
SCALE: 3/8"=1'-0"

Fig. 8



**PLAN**  
SCALE: 1/8"=1'-0"

TO BE PLACED ON OUTSIDE BEND OF CREEK. 2 PER BEND.

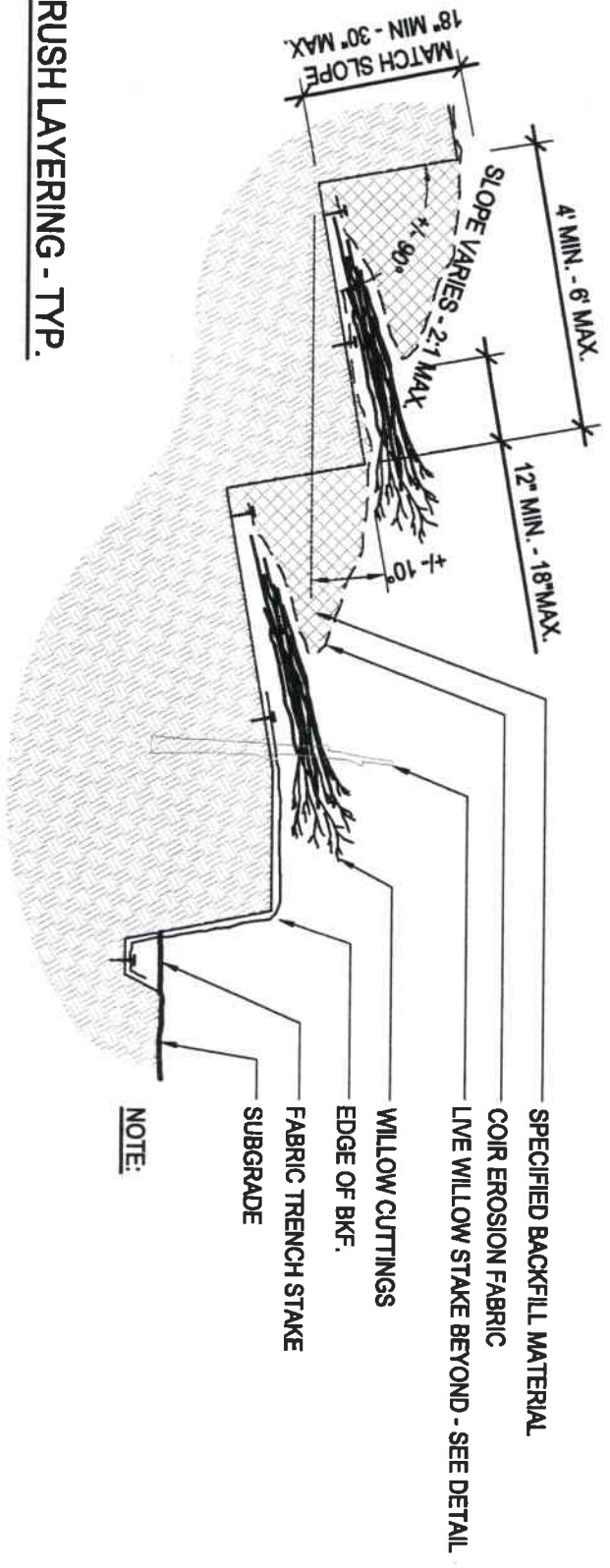


**SECTION**  
SCALE: 1/8"=1'-0"

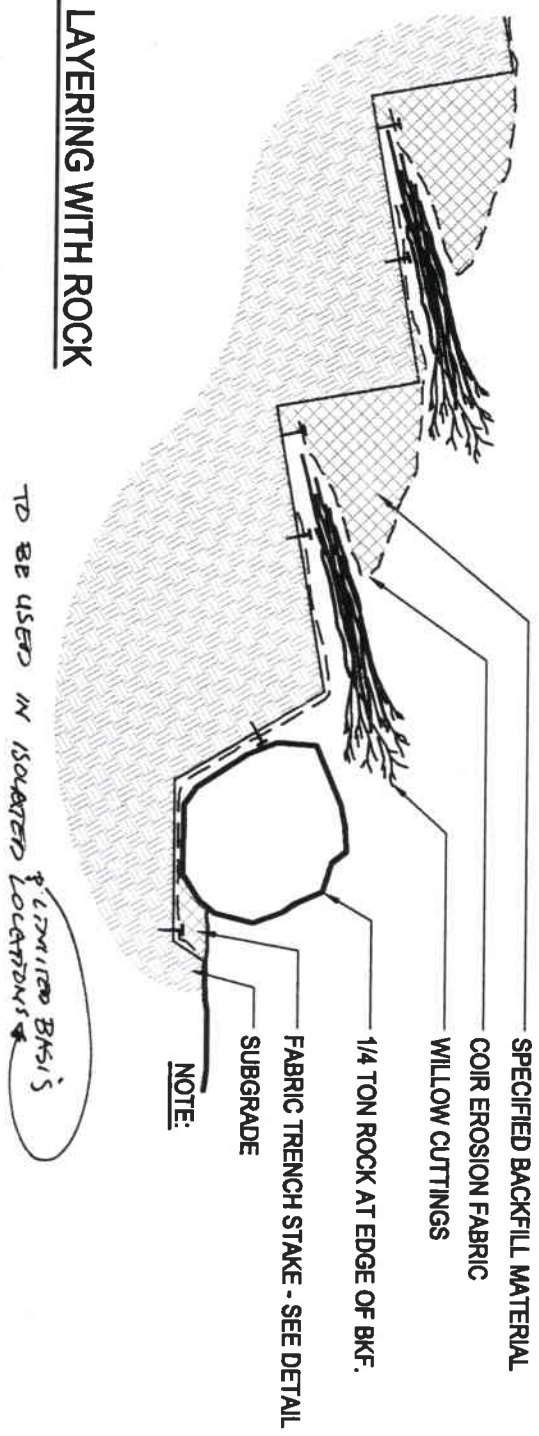
# ROOTWAD

SCALE: 1/8"=1'-0"

Fig. 9



**BRUSH LAYERING - TYP.**



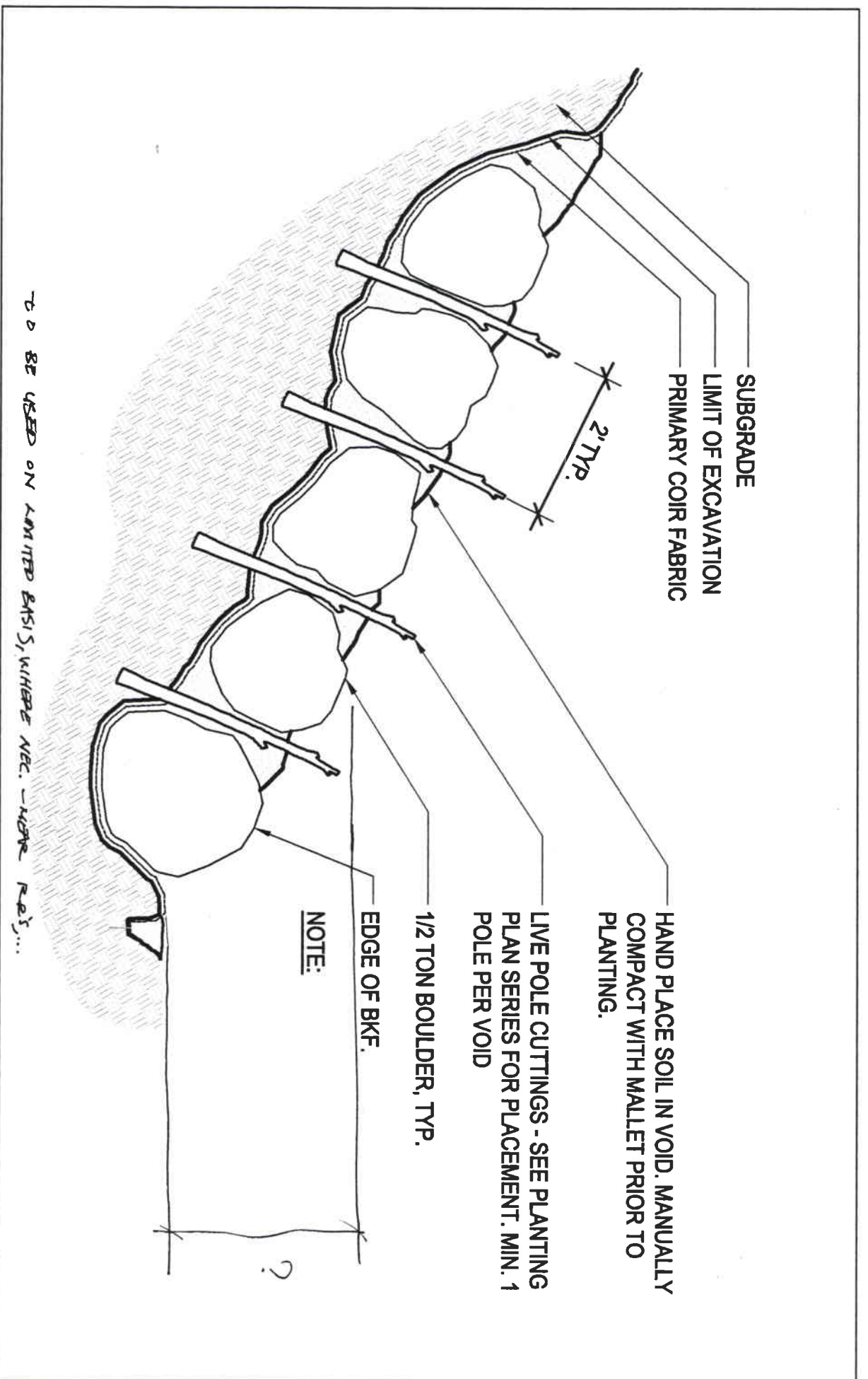
**BRUSH LAYERING WITH ROCK**

**BRUSH LAYERING**

SCALE: 3/8"=1'-0"

Fig. 10





# RIPRAP BANK WITH LIVE CUTTINGS

SCALE: 1/2"=1'-0"

Fig. 11

# RIFFILE STARTER

SCALE: 1/4"=1'-0"

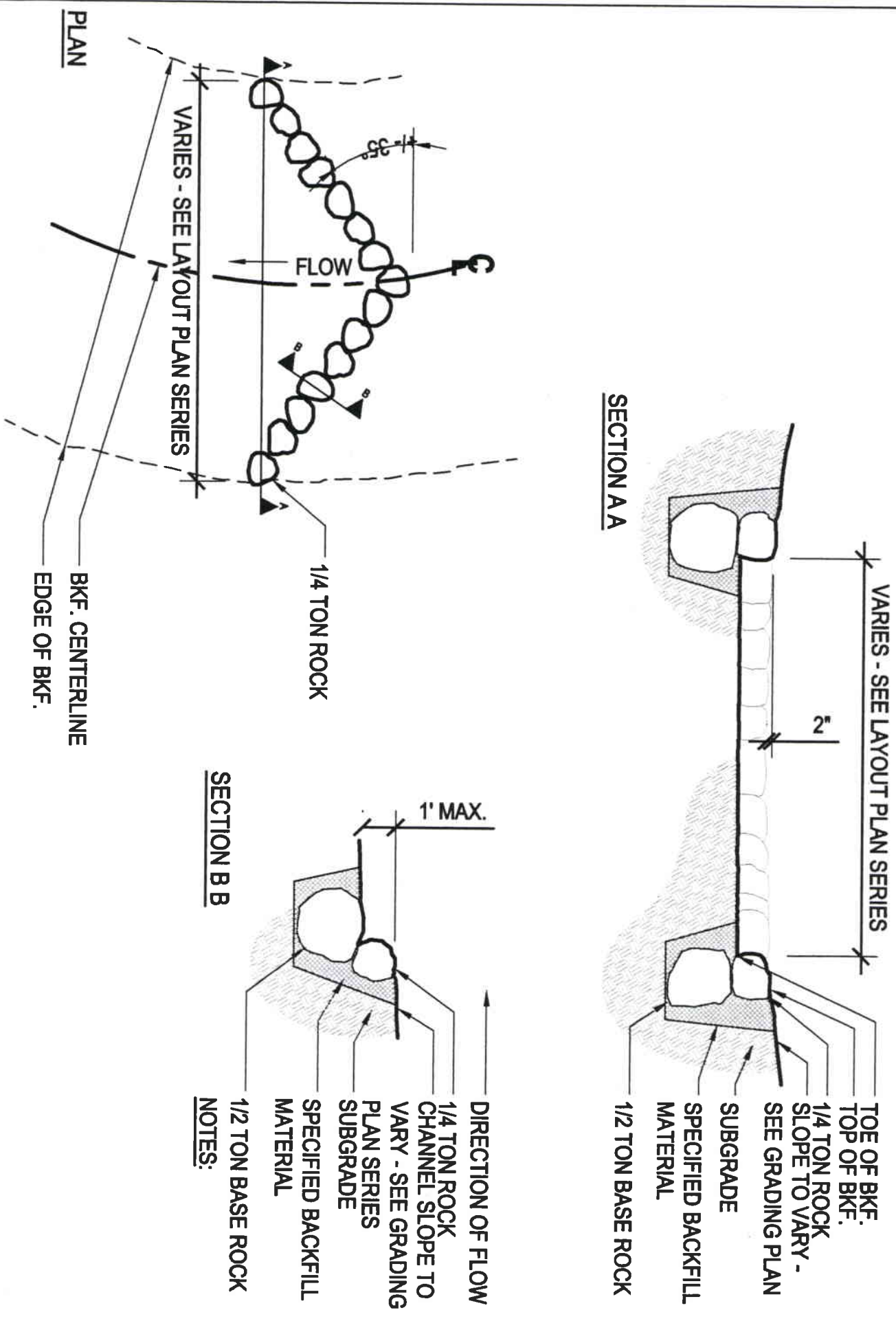


Fig.12

# FIFTH STREET PEDESTRIAN BRIDGE

SCALE: 1/16"=1'-0"

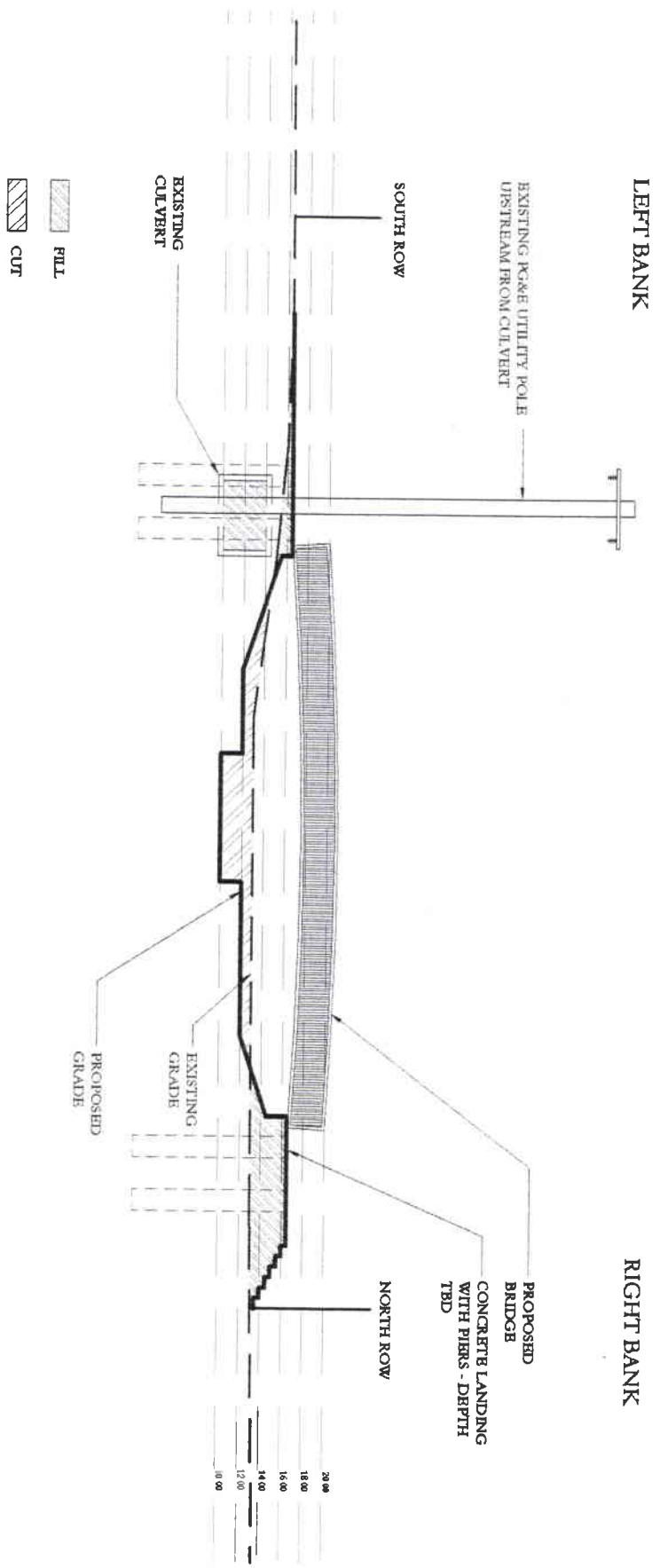


Fig.13



# · BYPASS PLAN

NTS

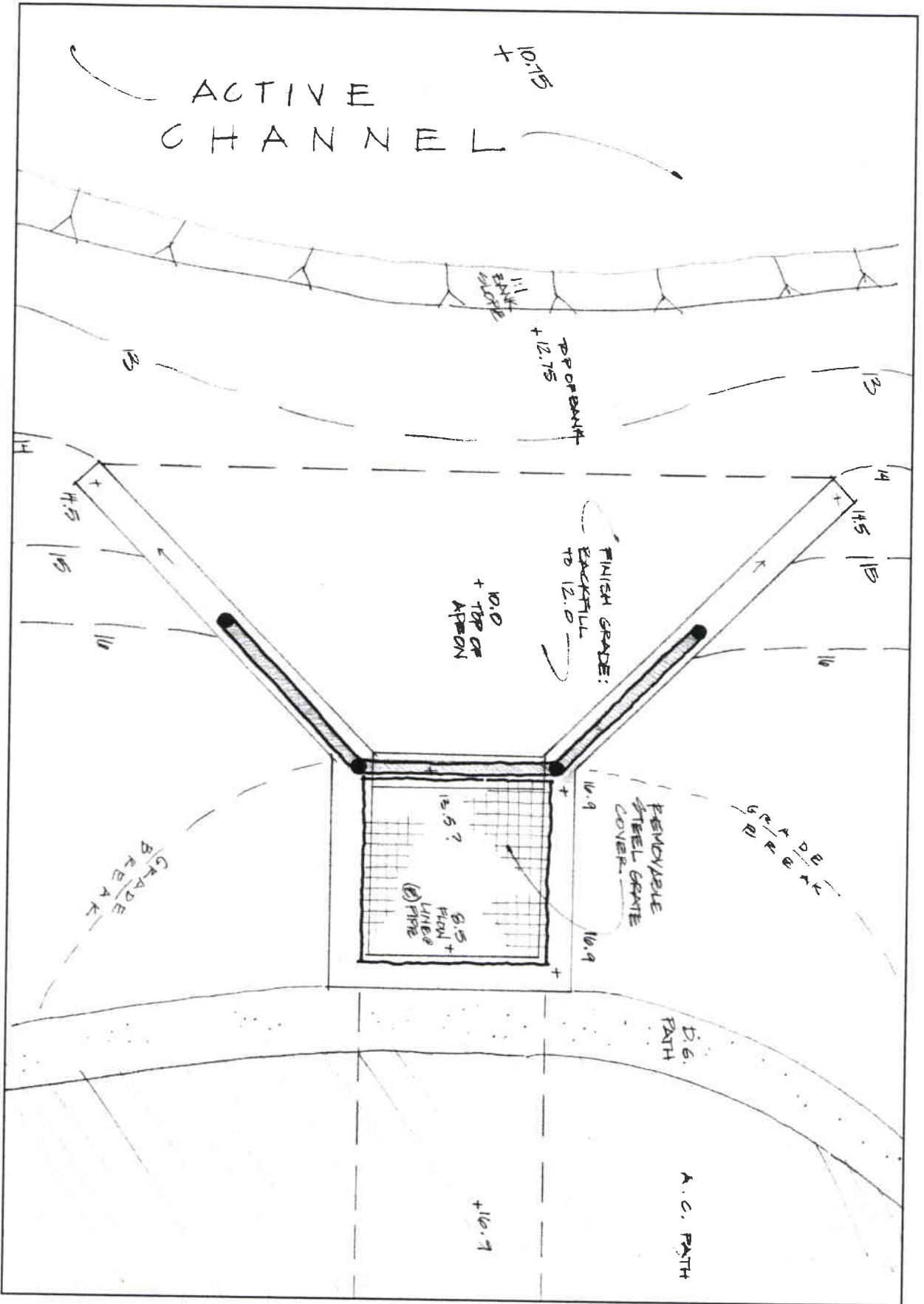


Fig. 14

# BYPASS SECTION

NTS

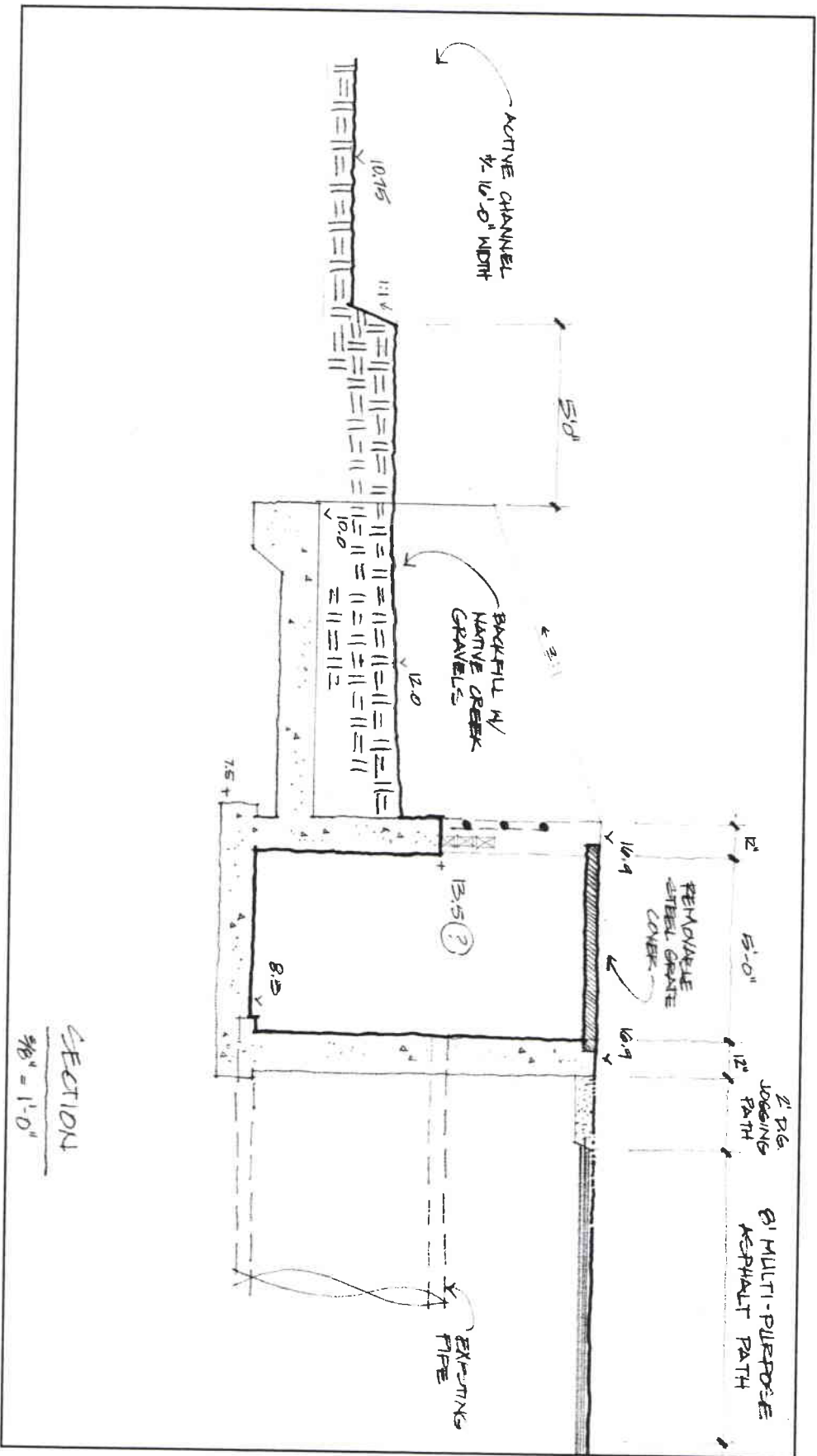


Fig. 15





# Sections

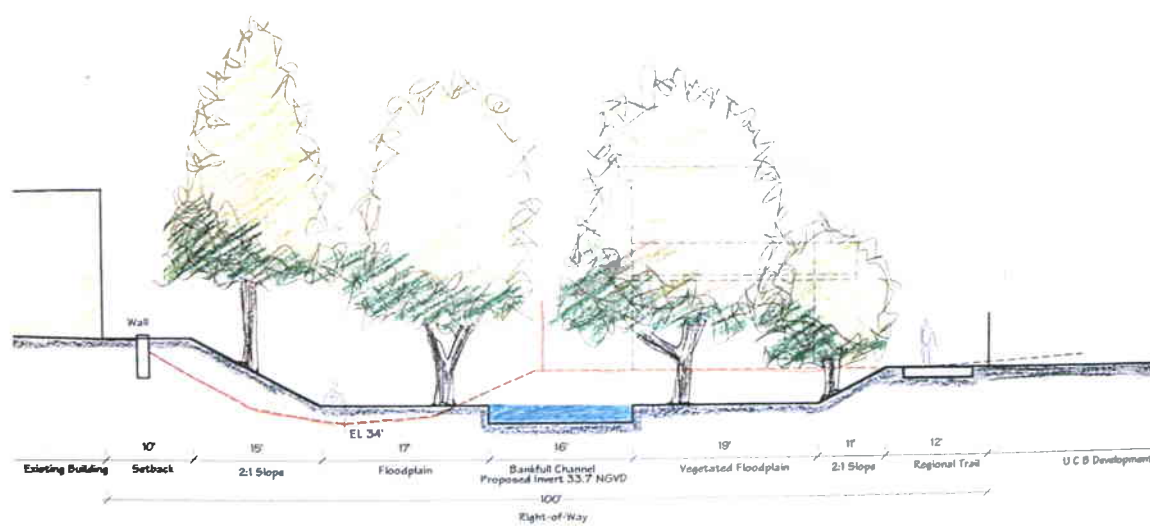
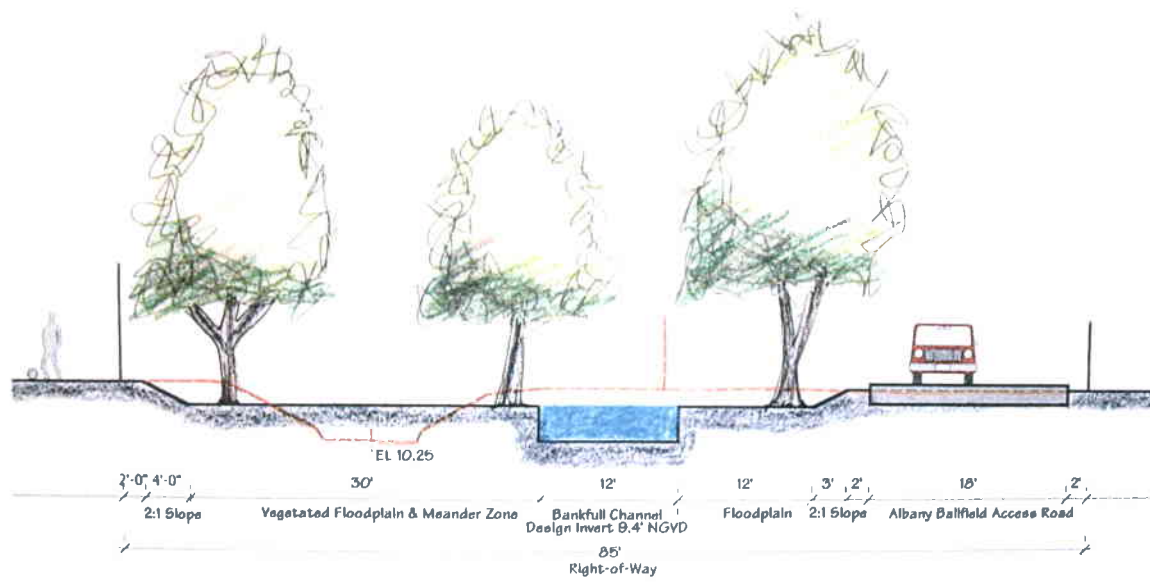
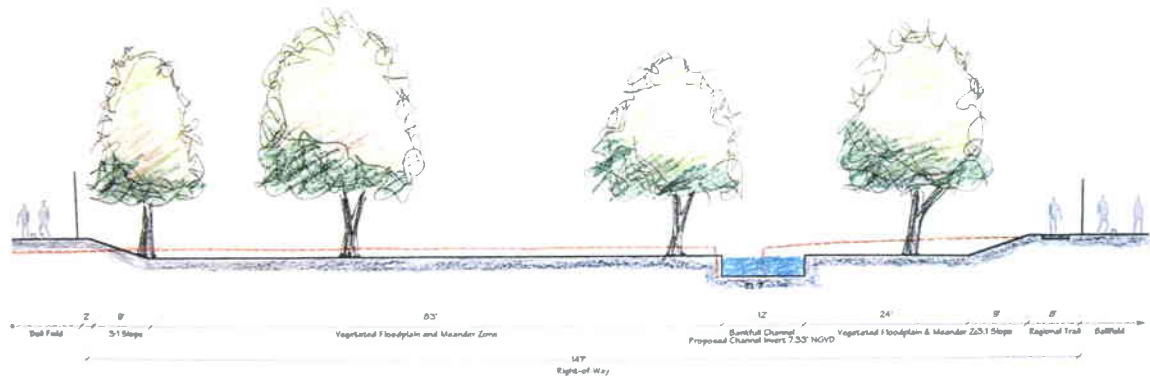


Fig. 16

# Sections

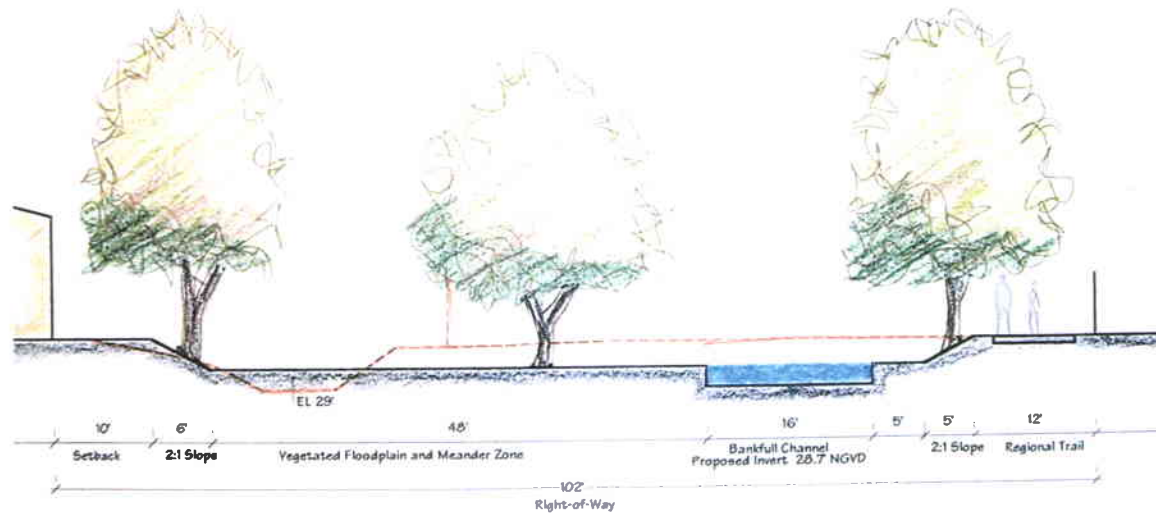
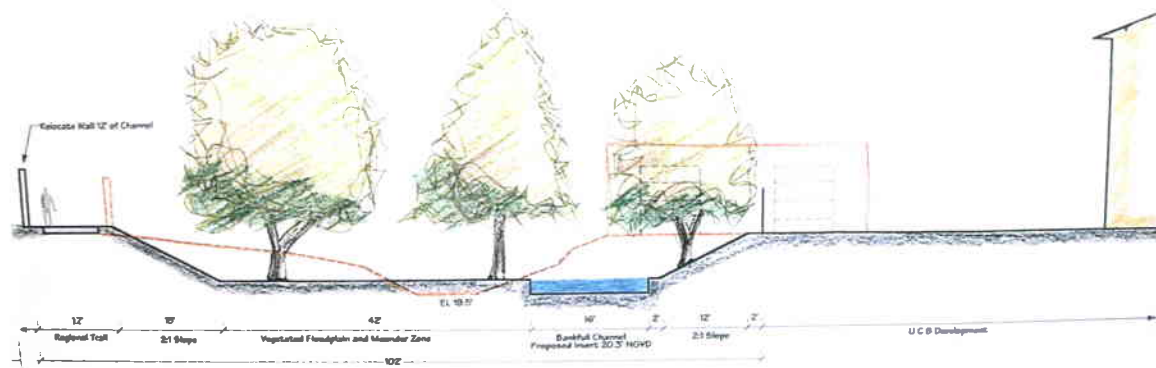


Fig. 17

# Sections

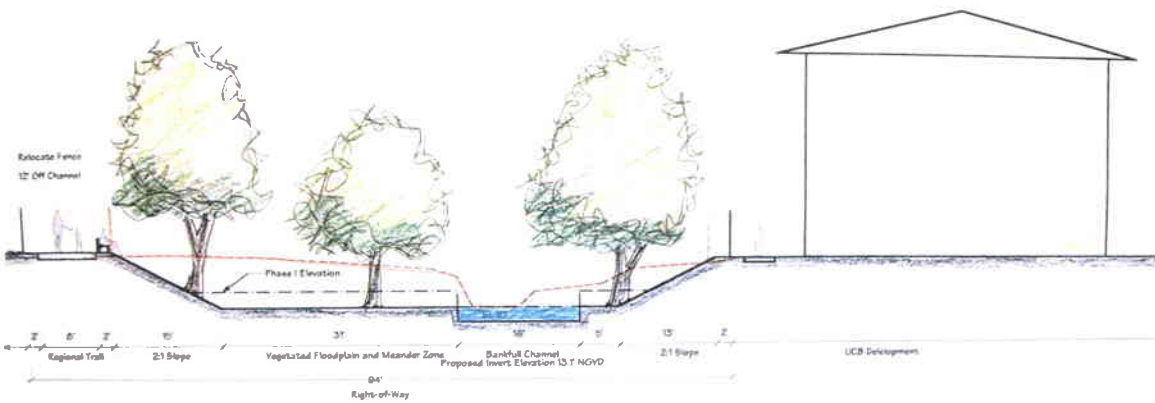
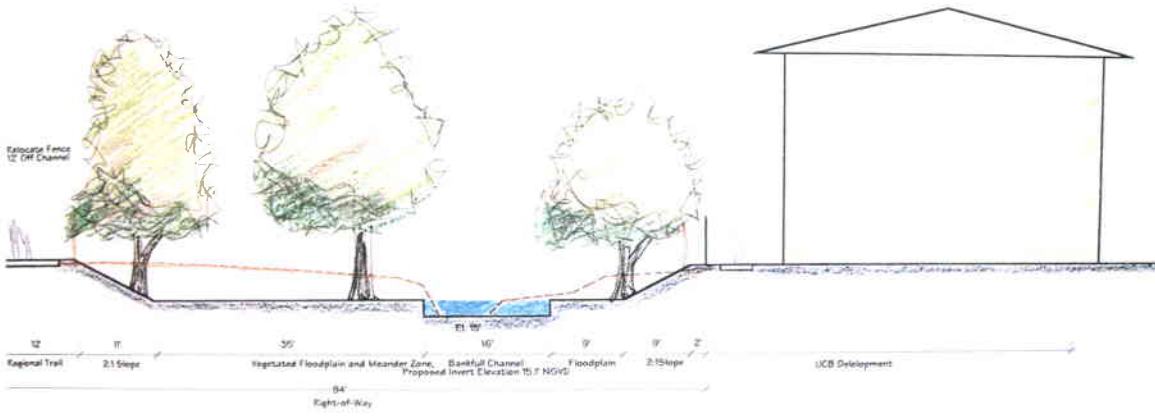
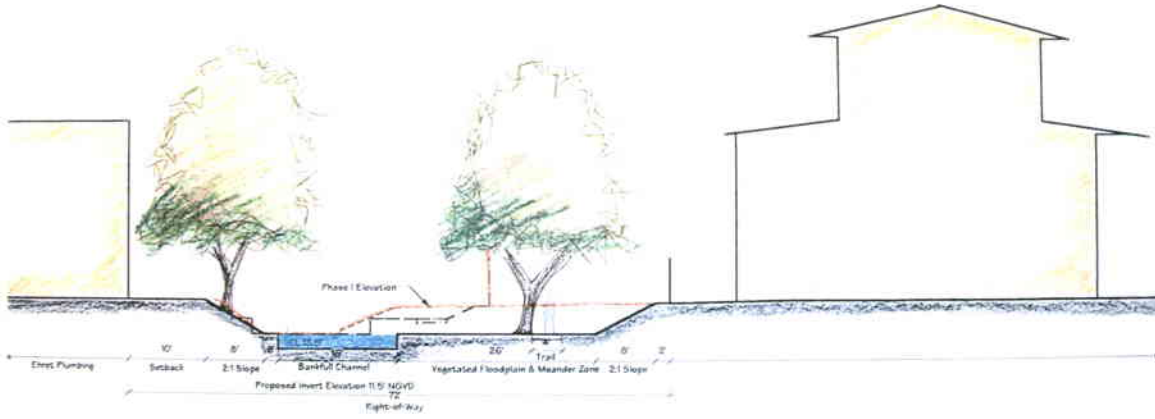


Fig. 18



Lower Codornices Creek Restoration Project  
 Estimated Fill Table  
 March 22, 2004

Codornices Creek Permit Fill Table								
RDL 3/21/04								
<i>description</i>	<i>quantity</i>	<i>units</i>	<i>width</i>	<i>height</i>	<i>depth</i>	<i>Total Area (ft<sup>2</sup>)</i>	<i>Total Volume (cy)</i>	<i>Comments</i>
<b>Phase I</b>								
root wads	20	each	3	3	15	180	100	
rock at RR culvert inlet	50	lf	2	3	2	300	22.2	one row of rocks 2' diameter
willow plantings	2600	lf	1	5	1	13000	481.5	assumes willow and coir fabric w/5 ft height and 0.5 ft depth
rifle starters	8	each	20	2	4	320	47.4	line of rocks across channel
brush layered slopes	200	lf	1	5	5	1000	185.2	assumes 5 ft fill sope
4th street bridge piers	2	each	40	8	5	640	118.5	
5th street bridge piers	2	each	40	8	5	640	118.5	
new bypass structure	1	each	8	10	7	80	20.7	
<b>Phase II</b>								
root wads	15	each	3	3	15	135	75	
rock at 6th street culvert inlet	20	lf	2	2	2	80	5.9	one row of rocks 2' diameter
willow plantings	3200	lf	1	5	1	16000	592.6	assumes willow and coir fabric w/5 ft height and 0.5 ft depth
rifle starters	10	each	20	2	4	400	59.3	line of rocks across channel
willows with toe rock, outside bends	100	lf	1	5	5	500	92.6	
brush layered slopes	100	lf	1	5	5	500	92.6	
step-pools	5	each	16	3	3	240	26.7	

*Phase 3 - 110 planted along top of*