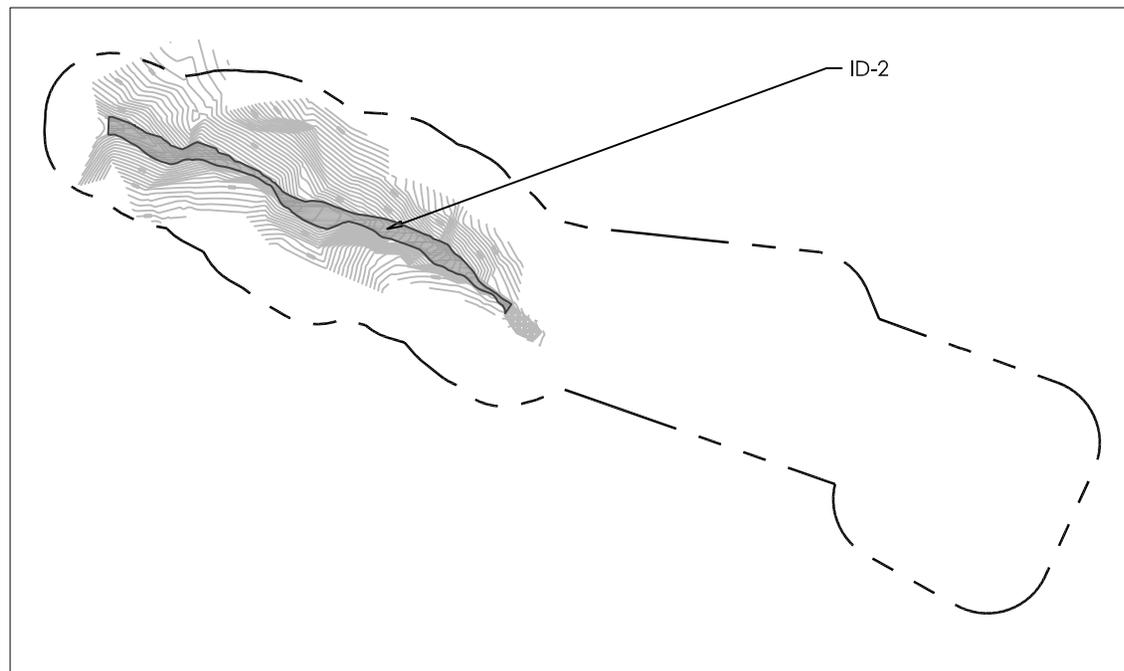
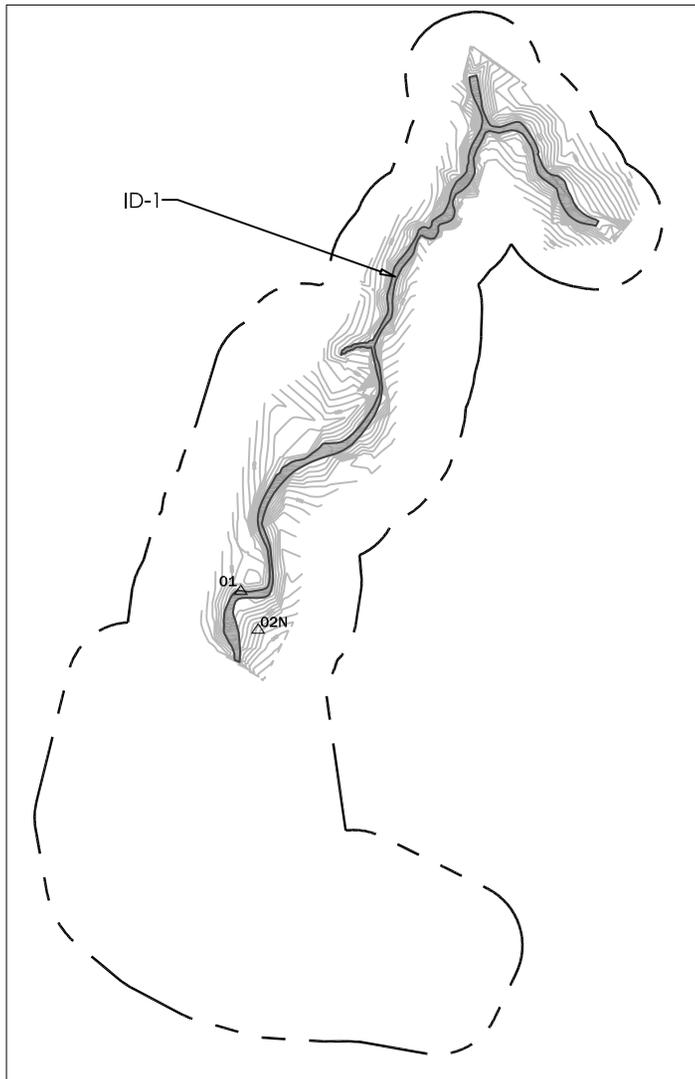


FIGURE 1. Project Site and Vicinity



OTHER WATERS²

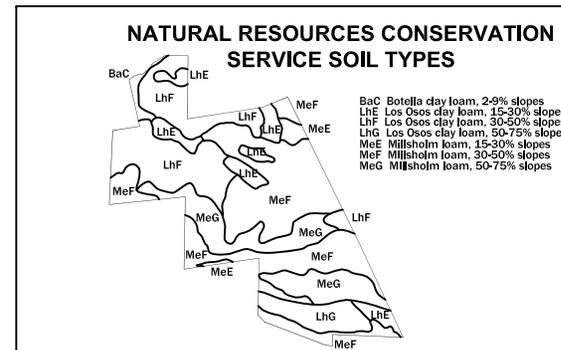
INTERMITTENT DRAINAGE		
ID	EXISTING SQ. FEET	EXISTING ACREAGE
ID-1	3691	0.085
ID-2	3848	0.088

Waters of the U.S.

3 CRITERIA SAMPLE POINT	GPS COORDINATES LAT/LONG
△ 01	38.913341/-123.516823

Upland

3 CRITERIA SAMPLE POINT	GPS COORDINATES LAT/LONG
△ 02N	38.913257/-123.516775



WATERS OF THE U.S. ACREAGE

CLASSIFICATION	APPROXIMATE ACREAGE
OTHER WATERS: Intermittent Drainage	1.73
TOTAL:	1.73

OTHER FEATURES

△ Three Criteria Sample Point

NOTES

Gross project acreage: ±1136
 Base data source: Storm Water Consulting Inc.
 Aerial photo source: Contra Costa County 2008
 Topographic data source: Storm Water Consulting Inc.

¹Subject to U.S. Army Corps of Engineer's verification
 This exhibit depicts information and data produced in strict accord with the U.S. Army Corps of Engineers wetland delineation methods described in the 1987 Corps of Engineers Wetland Delineation Manual, and conforms to specifications per the Corps Sacramento District. However, wetland boundaries have not been legally surveyed and may be subject to minor adjustments if exact locations are required.

²The acreage value for each feature has been rounded to the nearest 1/100 decimal. Summation of these values may not equal the total potential Waters of the U.S. acreage reported.

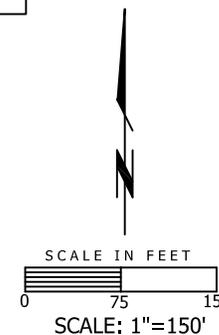
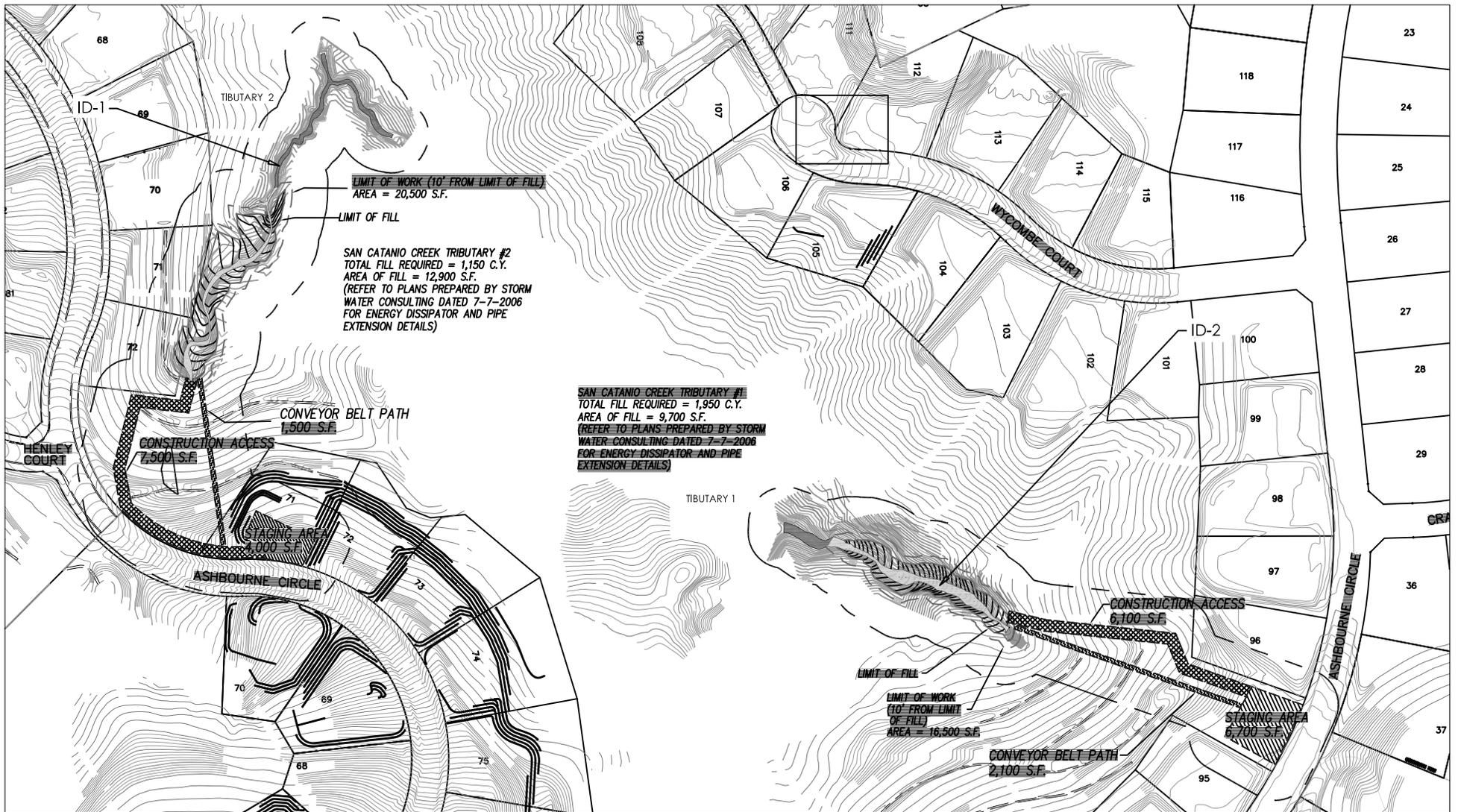


FIGURE 2. Wetland Delineation



WATERS OF THE U.S. ACREAGE¹

CLASSIFICATION	EXISTING ACREAGE	IMPACT ACREAGE	AVOIDED ACREAGE
OTHER WATERS:			
Intermittent Drainage	0.173	0.107	0.066
TOTAL:	0.173	0.107	0.066

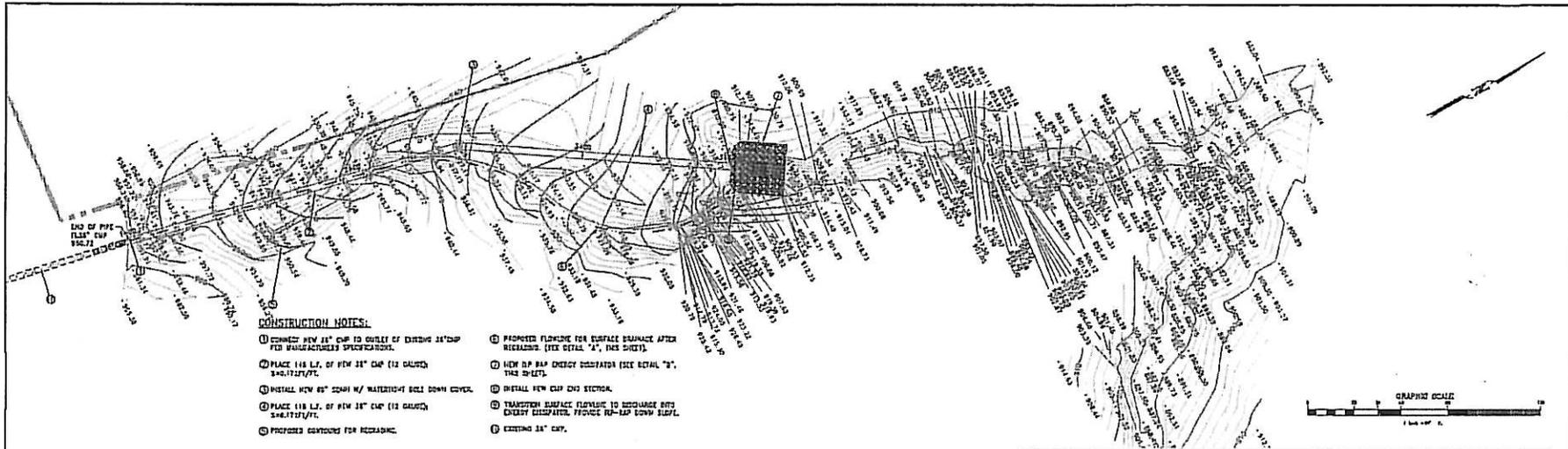
NOTES

Gross project acreage: Tributary 1: ±3.1 ac. Tributary 2: ±3.9 ac.
 Base data source: Milania
 Topographic data source: Milania

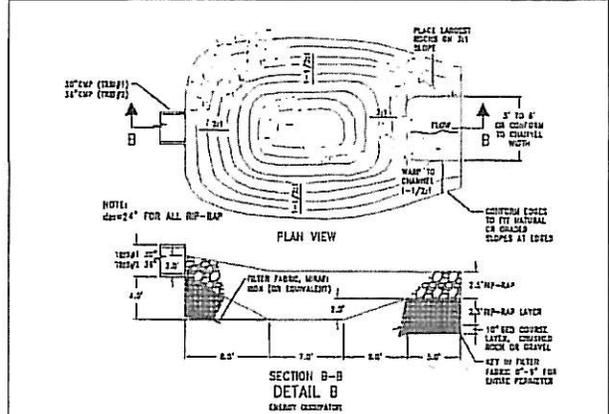
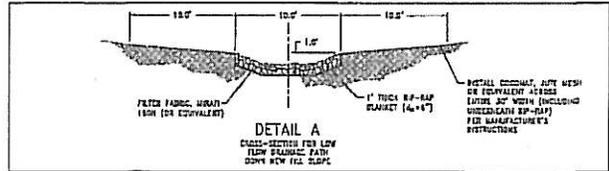
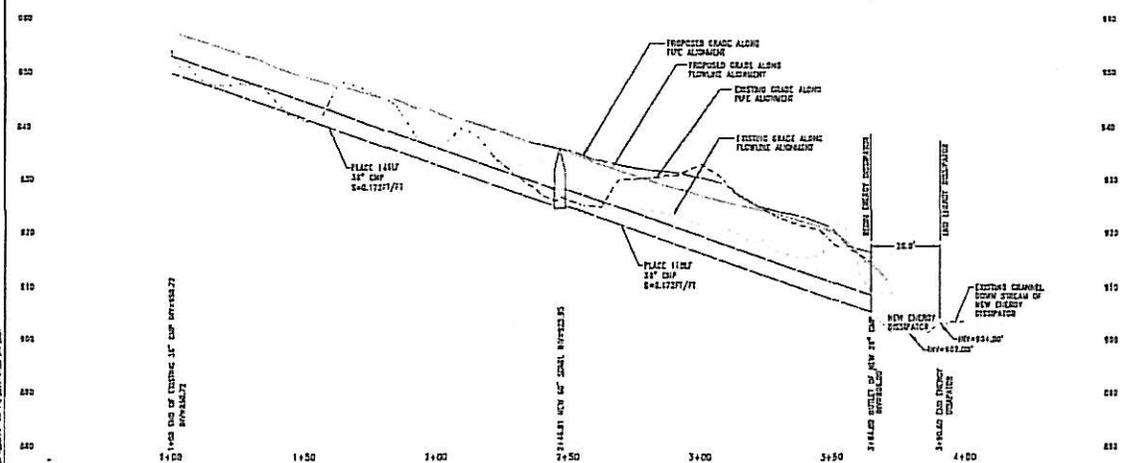
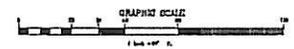
¹ Subject to U.S. Army Corps of Engineers verification. This exhibit depicts information and data produced in strict accord with the U.S. Army Corps of Engineers wetland delineation methods described in the 1987 Corps of Engineers Wetland Delineation Manual. However, wetland boundaries have not been legally surveyed and may be subject to minor adjustments if exact locations are required.

X:\2005-257 Norris Canyon Estates (Weidemann Ranch)\Tributary Project\PRES_IMP\Tributary-IMP_8.5x11_B&W.dwg 08/12/10

FIGURE 3. Proposed Impact Plan



- CONSTRUCTION NOTES:**
- 1) CONNECT NEW 36" CMP TO OUTLET OF EXISTING 36" CMP FOR MANUFACTURER'S SPECIFICATIONS.
 - 2) PLACE 118 LF. OF 36" NEW 36" CMP (12 GALONS @ 4.81725'/FT).
 - 3) INSTALL NEW 60" CONCRETE WATERPROOF BOLL DOWN COVER.
 - 4) PLACE 118 LF. OF 36" NEW 36" CMP (12 GALONS @ 4.81725'/FT).
 - 5) PROPOSED GRADINGS FOR REGRADING.
 - 6) PROPOSED FLOWLINE FOR SURFACE DRAINAGE AFTER REGRADING. (SEE DETAIL "A", THIS SHEET).
 - 7) NEW RP RAP ENERGY DISSIPATOR (SEE DETAIL "B", THIS SHEET).
 - 8) INSTALL NEW CMP DOW SECTION.
 - 9) TRANSITION SURFACE FLOWLINE TO DISCHARGE INTO ENERGY DISSIPATOR. PROVIDE RA-RAP DOWN SLOPE.
 - 10) EXISTING 36" CMP.



WIEDEMANN RANCH/NORRIS CANYON ESTATES
 STORM WATER CONSULTING, INC. 1/11/2008

REVISION	DATE	DESCRIPTION	APPROVED	DATE



STORM WATER CONSULTING, Inc
 1895 Sycamore Way
 83 DOWNEY HILLS, CA 95762
 PH: (916) 601-8802

Wiedemann Ranch/Norris Canyon Estates
Energy Dissipators at San Catanio Creek Tributaries
Tributary # 2 Energy Dissipator

DATE: 1-11-2008
 VEAT SCALE: 1"=20'
 HORIZ SCALE: 1"=10'

SHEET	2
OF	3

CONTRA COSTA COUNTY

CALIFORNIA

W.D. NO.

