

# GRANITE CONSTRUCTION

## STREAMBANK STABILIZATION PLAN

### ESPARTO PLANT, YOLO COUNTY CALIFORNIA

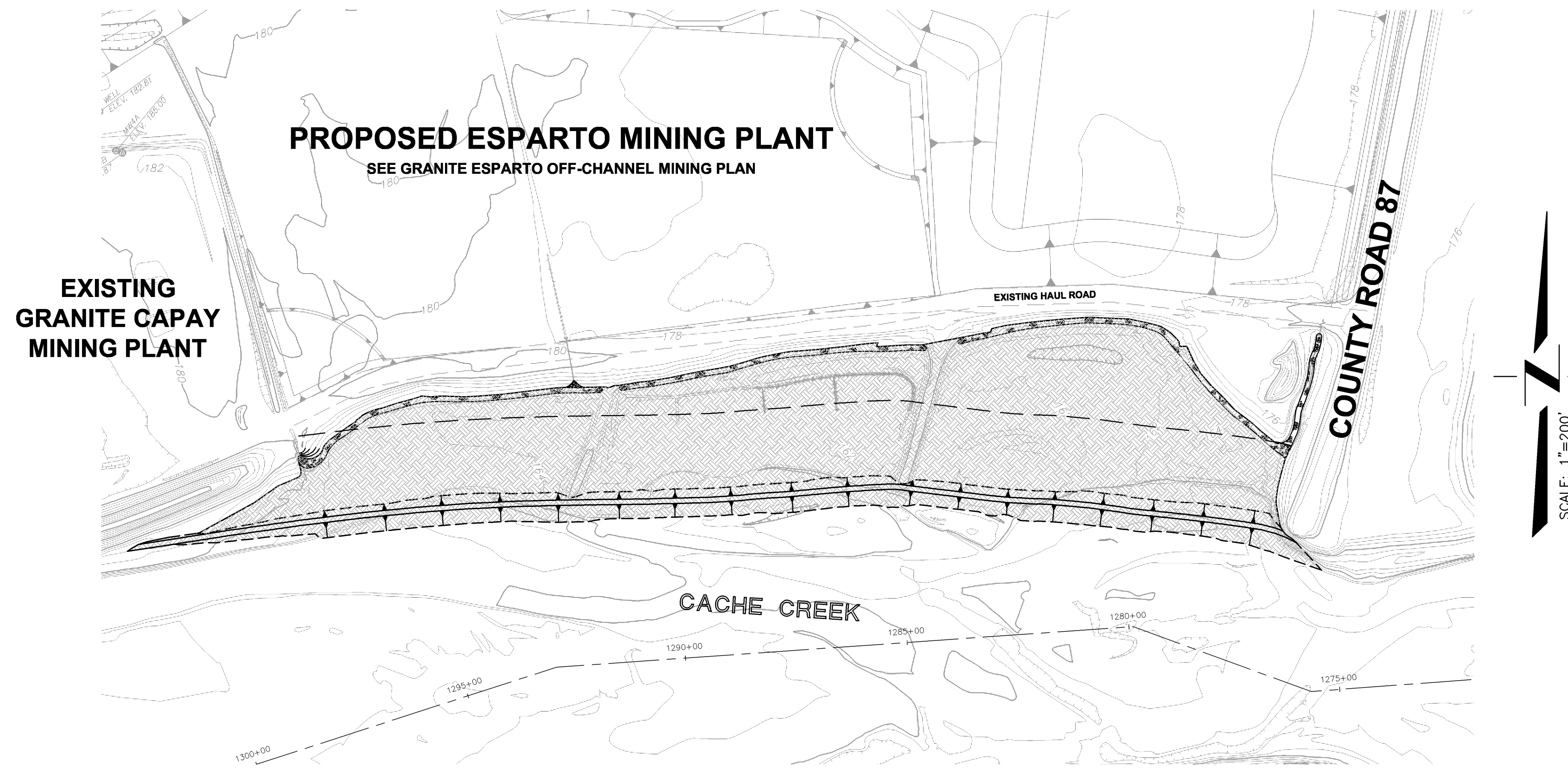
APRIL 2010

#### GENERAL NOTES:

- THE INTENT OF THESE PLANS IS TO SHOW A TYPICAL STREAMBANK STABILIZATION FOR THE GRANITE CONSTRUCTION CACHE CREEK MINING REACH TO PROVIDE 100-YEAR FLOOD PROTECTION AND MAINTAIN THE MINIMUM MINING SETBACK AS IDENTIFIED IN THE CCRMP AND YOLO CO. OFF-CHANNEL MINING ORDINANCE.
- ALL WORK SHALL CONFORM TO THE YOLO COUNTY OFF-CHANNEL MINING ORDINANCE, THE CACHE CREEK RESOURCES MANAGEMENT PLAN, THE PROJECT SPECIFIC CONDITIONS OF APPROVAL, THE PROJECT STORM WATER POLLUTION PREVENTION PLAN (SWPPP), OSHA, MSHA, AND OTHER APPLICABLE LOCAL, STATE AND FEDERAL REGULATIONS.
- EXISTING TOPOGRAPHY BASED ON AERIAL TOPOGRAPHY FLOWN SPRING 2007; VERIFY EXISTING CONDITIONS PRIOR TO COMMENCING WORK.
- IF HUMAN SKELETAL REMAINS ARE ENCOUNTERED DURING EXCAVATION, ALL WORK WITHIN SEVENTY-FIVE (75) FEET SHALL IMMEDIATELY STOP, AND THE COUNTY CORONER SHALL BE NOTIFIED WITHIN TWENTY-FOUR (24) HOURS. IF ANY CULTURAL RESOURCES, SUCH AS CHIPPED OR GROUND STONE, HISTORIC DEBRIS, BUILDING FOUNDATIONS, OR PALEONTOLOGICAL MATERIALS ARE ENCOUNTERED DURING EXCAVATION, THEN ALL WORK WITHIN SEVENTY-FIVE (75) FEET SHALL IMMEDIATELY STOP AND THE DIRECTOR SHALL BE NOTIFIED AT ONCE. ANY CULTURAL RESOURCES FOUND ON THE SITE SHALL BE RECORDED BY A QUALIFIED ARCHAEOLOGIST AND THE INFORMATION SHALL BE SUBMITTED TO THE COUNTY.
- HYDRAULIC INFORMATION SHOWN ON THESE PLANS BASED ON HYDRAULIC ANALYSIS PREPARED BY CUNNINGHAM ENGINEERING OCTOBER 2007.
- CONSTRUCTION CONTRACTOR AGREES THAT IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, CONSTRUCTION CONTRACTOR WILL BE REQUIRED TO ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THE PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY. THAT THIS REQUIREMENT SHALL BE MADE TO APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS, AND CONSTRUCTION CONTRACTOR FURTHER AGREES TO DEFEND, INDEMNIFY AND HOLD DESIGN PROFESSIONAL HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF DESIGN PROFESSIONAL.
- CUNNINGHAM ENGINEERING COMPANY HAS EXERCISED A REASONABLE AND ACCEPTABLE STANDARD OF CARE IN THE PREPARATION OF THESE PLANS, HOWEVER, THE DESIGN PROCESS INCLUDES ACTIVITIES OCCURRING AFTER PLAN SIGNATURE. THESE ACTIVITIES INCLUDE CALCULATIONS, PLAN CHECK AND VERIFICATIONS DURING CONSTRUCTION. SHOULD PERSONS OTHER THAN CUNNINGHAM ENGINEERING COMPANY PERFORM THE CONSTRUCTION STAKING OPERATION, THEY SHALL INDEMNIFY CUNNINGHAM ENGINEERING COMPANY FROM ANY DAMAGES RESULTING FROM FAILURE TO PERFORM THESE TASKS OR ANY EXPENSE OR DAMAGE RESULTING FROM OMISSION OR ERROR CONTAINED IN THE PLANS WHICH WOULD REASONABLY HAVE BEEN DISCOVERED AND CORRECTED BY CUNNINGHAM ENGINEERING COMPANY.
- UNAUTHORIZED CHANGES & USES: THE ENGINEER PREPARING THESE PLANS WILL NOT BE RESPONSIBLE FOR, OR LIABLE FOR, UNAUTHORIZED CHANGES TO OR USES OF THESE PLANS. ALL CHANGES TO THE PLANS MUST BE IN WRITING AND MUST BE APPROVED BY THE PREPARER OF THESE PLANS.
- ALL EARTHWORK OPERATIONS AND TESTING OF SOILS COMPACTION SHALL BE IN ACCORDANCE WITH GRANITE CAPAY FACILITY AND GRANITE ESPARTO FACILITY, SLOPE STABILITY REPORTS PREPARED BY WALLACE KUHLE AND ASSOC. INC. (JOB #3080.05) DATED JUNE 20, 2001 AND (JOB #5871.06) DATED AUGUST 9, 2007. COPIES OF THE REPORTS ARE AVAILABLE AT THE OFFICE OF THE ENGINEER. THE SOILS ENGINEER SHALL BE PRESENT DURING GRADING. RESULTS OF ALL SOILS TESTING SHALL BE SUBMITTED TO THE OWNER BY THE SOILS TESTING COMPANY.
- THE GRADING OF FINAL SLOPES, THE REPLACEMENT OF SOIL, AND ASSOCIATED EROSION CONTROL MEASURES SHALL TAKE PLACE PRIOR TO NOVEMBER 1. TO MINIMIZE EROSION, ALL SLOPES ABOVE THE GROUNDWATER LEVEL SHALL BE SEEDED WITH THE RANGE MIX PREVIOUSLY APPROVED FOR EROSION CONTROL ON-SITE, AS SOON AS IS PRACTICAL AFTER GRADING AND PRIOR TO NOVEMBER 1. THE GRASS SEED MIX SHALL BE WEED-FREE.
- CONTRACTOR TO OBTAIN ENCROACHMENT PERMIT FOR ALL WORK WITHIN THE COUNTY RIGHT OF WAY.

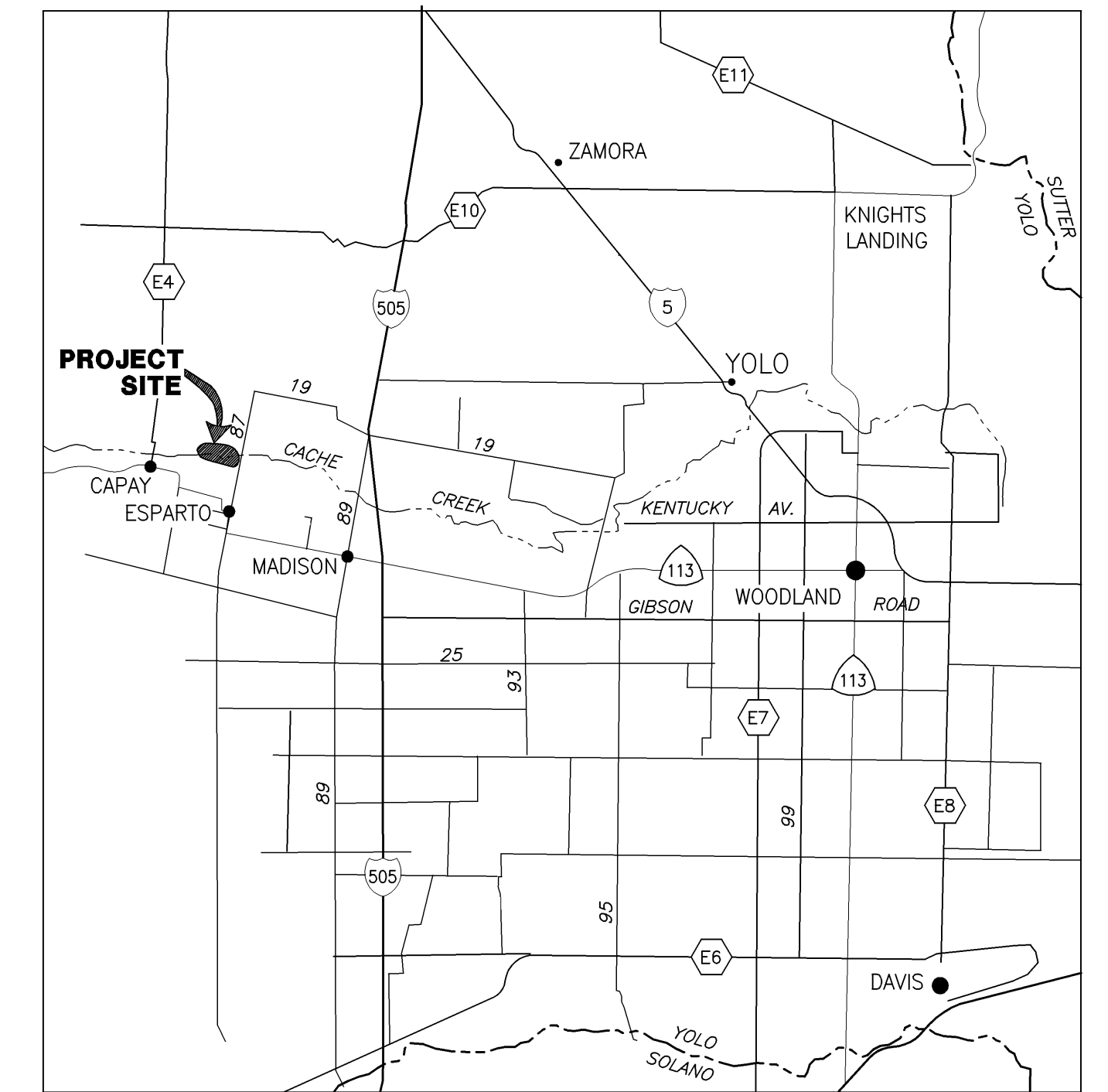
#### BENCHMARK:

EXISTING TOPOGRAPHY BASED ON AERIAL TOPOGRAPHY FLOWN MAY 2007 PROVIDED BY STEWART GEOTECHNOLOGIES VIA YOLO COUNTY. HORIZONTAL AND VERTICAL CONTROL FOR THE AERIAL TOPOGRAPHY IS BASED ON A CONTROL NETWORK TIED BY ANDREGG, INCORPORATED TO A NETWORK OF PUBLISHED BENCHMARKS. THE VERTICAL DATUM IS NGVD29.



#### LEGEND:

DIRT ROAD		EXISTING ELEV.	
PAVED ROAD		SLOPE	
FENCE		CROSS SECTION	
TREES			
GROUND COVER			
EXISTING GROUND INDEX CONTOUR			
EXISTING GROUND INTERMEDIATE CONTOUR (CONTOUR INTERVAL = 2')			
STREAMBANK STABILIZATION			
COBBLED SWALE			



VICINITY MAP

#### ABBREVIATIONS:

CCRMP	CACHE CREEK RESOURCES MANAGEMENT PLAN
CFR	CODE OF FEDERAL REGULATIONS
ELEV	ELEVATION
H	HORIZONTAL
INC	INCORPORATED
LGMCC	LANDOWNERS GUIDE TO STREAMBANK MANAGEMENT ON CACHE CREEK
MIN	MINIMUM
MSHA	MINE SAFETY AND HEALTH ADMINISTRATION
MW	MONITOR WELL
N	NORTH
OSHA	OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION
R.C.	RELATIVE COMPACTION IN ACCORDANCE WITH ASTM-D1557, LATEST VERSION
RWQCB	REGIONAL WATER QUALITY CONTROL BOARD
SWPPP	STORM WATER POLLUTION PREVENTION PLAN
V	VERTICAL
YR	YEAR

#### INDEX TO SHEETS:

- TITLE, NOTES AND ABBREVIATIONS
- PLAN AND CROSS SECTION
- PLAN AND CROSS SECTION

#### DRAWING STATUS:

- PLAN REVIEW
- PERMIT SET
- BID SET
- CONSTRUCTION SET

DATE SIGNED: \_\_\_\_\_  
 THESE DRAWINGS ARE NOT CONSIDERED FINAL UNTIL THE ENGINEER'S SEAL BELOW HAS BEEN SIGNED AND DATED.



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**GRANITE CONSTRUCTION**  
**CACHE CREEK**  
**STREAMBANK STABILIZATION PLAN**  
**TITLE SHEET**

DESIGN: BF	DRAWN: BF	CHECK: SJG	DATE: 11/5/07 REV: 04/05/10	SHEET 1 OF 3
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