





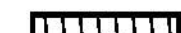






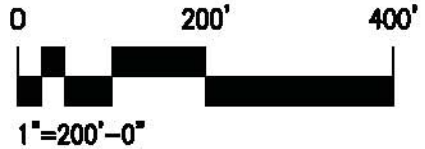
AREA 4 DAM CONSTRUCTION UPSTREAM

-  1: INSTALL TURBIDITY BARRIER
-  2: WEST DAM BUTTRESS - BELOW WATER (33,000 CY)
-  3: EAST DAM BUTTRESS - BELOW WATER (15,000 CY)
-  4: EAST DAM BUTTRESS - ABOVE WATER (12,000 CY)
-  5: WEST DAM BUTTRESS - ABOVE WATER (46,000 CY)
-  6: CORE WALL RETROFIT
-  7: CREST ROAD - (12,500 CY)

AREA 5 DAM CONSTRUCTION DOWNSTREAM

-  8: DEWATERING & FRENCH DRAIN CONSTRUCTION (2,000 CY)
-  9: POWER HOUSE + PENSTOCK PROTECTIVE DEVICES
-  10: WEST DAM BUTTRESS (108,000 CY)
-  11: MAIN DAM BUTTRESS (35,000 CY)
-  12: EAST DAM BUTTRESS (24,000 CY)

NOTE:
 1. QUANTITIES PROVIDED ARE ESTIMATED AND SUBJECT TO CHANGE.
 2. WATER LEVEL IS ASSUMED AT ELEVATION 3348 IN CALCULATING ITEMS 2 AND 3 OF THE BELOW WATER PLACEMENT.



**CRANE VALLEY DAM
SEISMIC MODIFICATIONS**

FERC PROJECT NO. 1354-CA
 NATDAM NO. CA00337
 STATE DAM NO. 95-3

**Pacific Gas and
Electric Company**

PARSONS
 100 W. WALNUT ST.
 PASADENA, CA 91781-0001
 (800) 440-8000

NO.	DATE	DESCRIPTION	BY	CHKD.
1	12/07/09	FOR INFORMATION ONLY	RR	RR
2			RR	RR
3			RR	RR

SCALE: 1"=200'
 SHEET: 11 OF 27

DATE: DECEMBER 07, 2009
 APPROVED: D. Novak
 CHECKED BY: PERRY CITY APPROV.

CRANE VALLEY DAM
 AREA 4 AND 5
 ROCKFILL QUANTITIES

SHEET NO.:
 FIGURE 3-10

