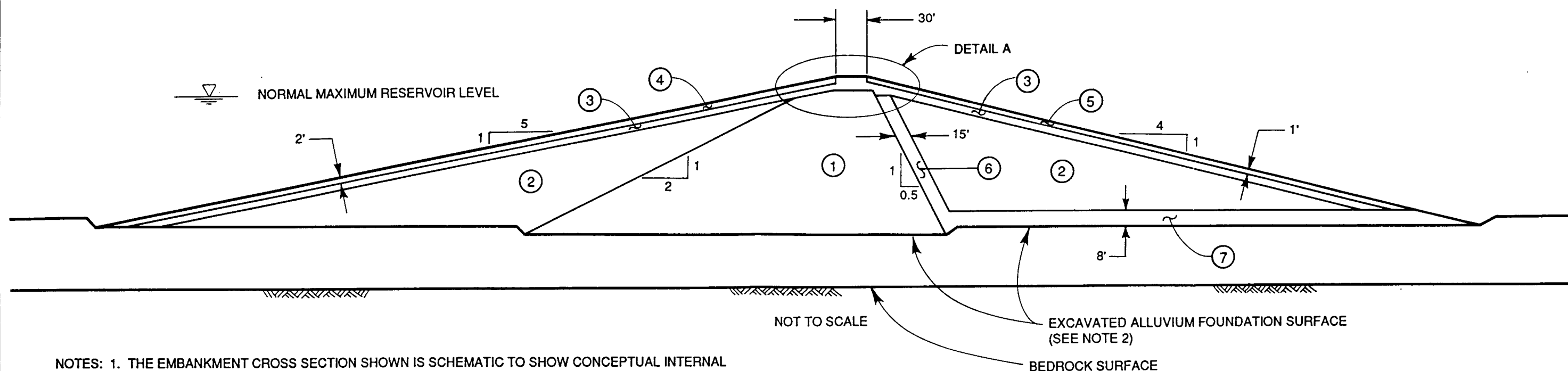


| EMBANKMENT MATERIALS |        |                                                                                                                                                            |         |
|----------------------|--------|------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|
| SYMBOL               | ZONE   | DESCRIPTION                                                                                                                                                | SOURCE  |
| ①                    | ZONE 1 | IMPERVIOUS - MODERATE TO HIGHLY PLASTIC EXPANSIVE SILTY CLAY TO SANDY CLAY ALLUVIUM.                                                                       | ON-SITE |
| ②                    | ZONE 2 | RANDOM - REWORKED PETALUMA FORMATION (CLAYSTONE, SILTSTONE AND SANDSTONE) PLUS ALLUVIUM AND LAND-SLIDE DEPOSITS (SILTY CLAY, SANDY CLAY AND CLAYEY SAND).  | ON-SITE |
| ③                    | ZONE 3 | SELECT FILL - NON TO LOW PLASTIC SILTY SAND-GRAVEL MIXTURE (REWORKED SONOMA VOLCANICS ANDESITE AND FRANCISCAN COMPLEX GRAYWACKE SANDSTONE AND GREENSTONE). | ON-SITE |
| ④                    | ZONE 4 | RIPRAP - SOUND, ANGULAR ROCK PLACED ON SAND-GRAVEL BEDDING LAYER.                                                                                          | IMPORT  |
| ⑤                    | ZONE 5 | SLOPE PROTECTION - SAND-GRAVEL-COBBLE MIXTURE.                                                                                                             | IMPORT  |
| ⑥                    | ZONE 6 | CHIMNEY DRAIN - CLEAN SAND-GRAVEL MIXTURE TO OPEN GRAVEL WITH APPROPRIATE SAND FILTER PROTECTION.                                                          | IMPORT  |
| ⑦                    | ZONE 7 | BLANKET DRAIN - CLEAN OPEN-GRADED GRAVEL WITH APPROPRIATE SAND-GRAVEL FILTER PROTECTION.                                                                   | IMPORT  |



- NOTES: 1. THE EMBANKMENT CROSS SECTION SHOWN IS SCHEMATIC TO SHOW CONCEPTUAL INTERNAL ZONING DESIGN AND MAY NOT REFLECT THE TRUE RELATIVE DAM HEIGHT FOR THE MAXIMUM STORAGE AT THE ALTERNATIVE SITE.
2. ESTIMATED DAM FOUNDATION EXCAVATION DEPTHS ARE NOT SHOWN TO SCALE. REFER TO TABLE 4-1 AND SECTION 4 FOR ACTUAL ESTIMATES AND EXPLANATION.
3. THE IMPERVIOUS CORE ZONE CONFIGURATION SHOWN REFLECTS A MINIMUM DESIRED DESIGN WIDTH FOR THE ALTERNATIVE SITE, CONSIDERING AVAILABLE CONSTRUCTION MATERIALS PROPERTIES, AND GEOTECHNICAL AND SEISMIC SITE CONDITIONS. ESTIMATED AVAILABLE QUANTITIES OF IMPERVIOUS TYPE MATERIALS COULD RESULT IN A SOMEWHAT WIDER CORE ZONE OR A MORE HOMOGENEOUS IMPERVIOUS EMBANKMENT SECTION UPON DETAILED DESIGN.

**RUST** ENVIRONMENT & INFRASTRUCTURE  
San Jose, California

CONCEPTUAL EMBANKMENT CROSS SECTION  
TOLAY CREEK RESERVOIR SITE - BACKDAM  
SANTA ROSA SUBREGIONAL LONG TERM  
WASTEWATER PROJECT

PROJECT NO.  
88230  
DATE  
OCTOBER 1995  
FIGURE NO.  
6-27