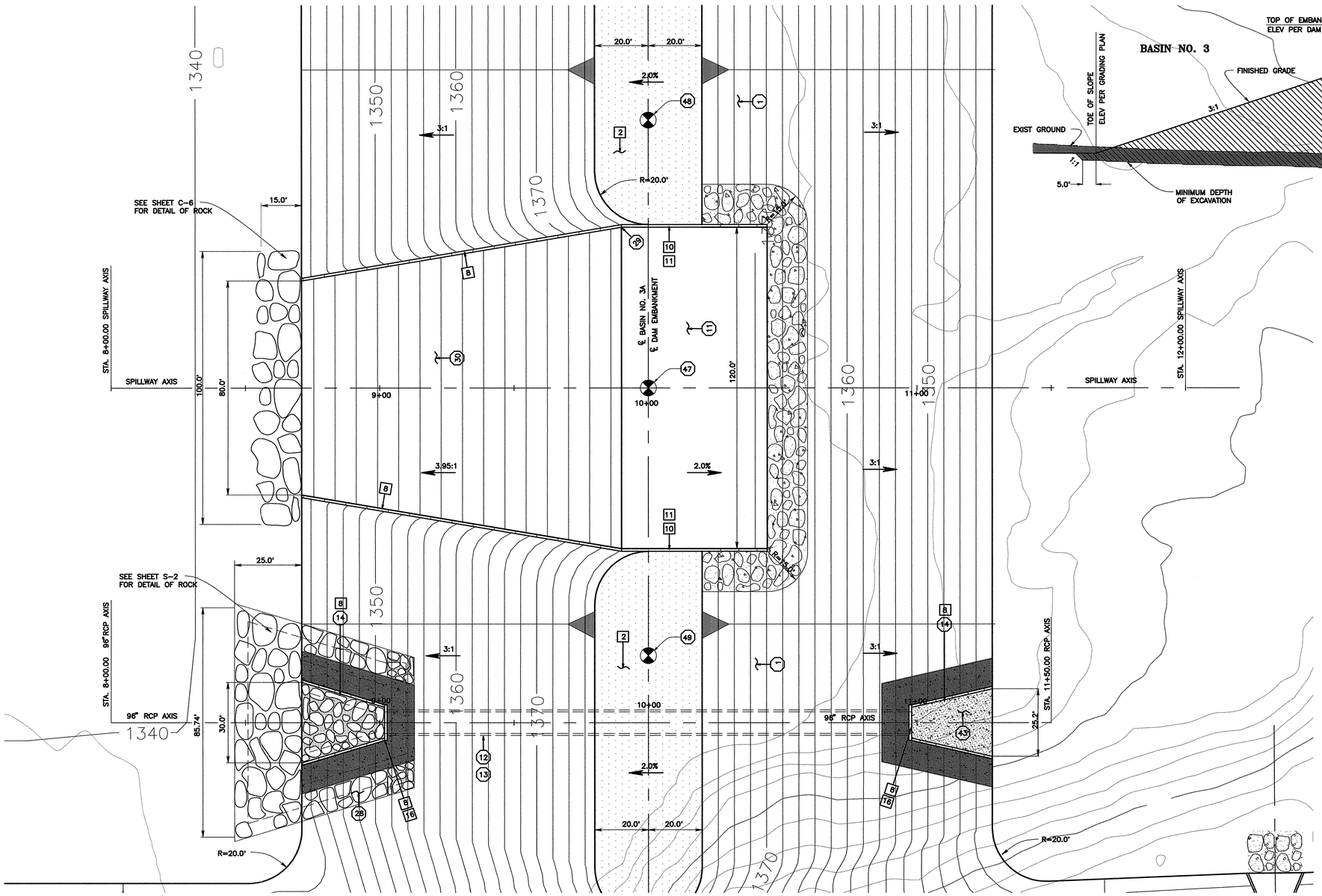

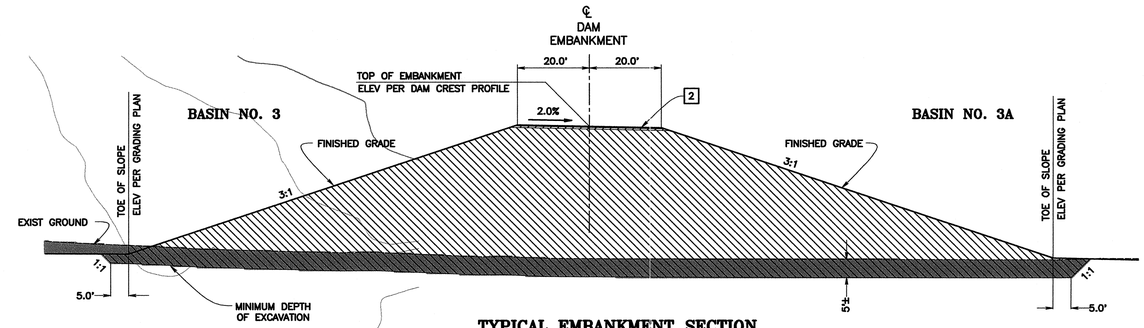

TYPICAL EMBANKMENT SECTION

SCALE 1"=20'

EXCAVATION

CONSTRUCTION CALLOUTS:

- 2 3" AC PVMT ROAD SECTION PER (STD)
- 5 CONCRETED SPLASH PAD PER (STD)
- 8 CHANNEL FENCE PER SHT FCD-II
- 10 WALK GATE PER SHT FCD-II
- 11 SPILLWAY ACCESS LADDER PER SHT S-7
- 16 SLOPED PROTECTION BARRIER PER APWA SP 360-0

CONSTRUCTION NOTES:

1. CONSTRUCT SOUTH EMBANKMENT FOR BASIN NO. 3 PER PLAN ON SHEETS C-2 & C3 , PROFILE ON SHEETS P-2 &: P-4, SECTIONS ON SHEETS X-11 TO X-13 & X-23 TO X-25 AND SURVEY CONTROL DATA ON SHEETS G-2 & G-3
11. CONSTRUCT REINFORCED CONCRETE SPILLWAY PER PLAN ON SHEETS C-2, C-3, C-5 & C-6, PROFILE ON SHEETS C-5, DETAILS ON SHEETS C-6, C-7 & S-5, AND SURVEY CONTROL DATA ON SHEETS G-2, G-3 & G-5.
12. CONSTRUCT APPROX. 197 LINEAR FEET OF 96" RCP OUTLET BASIN DRAIN PER PLAN C-2, C-3, C-5 & S-5, PROFILE ON SHEET S-2 AND DETAILS ON SHEETS S-2 & S-3 (D-LOAD PER PROFILE)
13. CONSTRUCT 96" RCP ENCASEMENT PER DETAIL ON SHEET S-4
14. CONSTRUCT HEADWALL AND WINGWALLS FOR 96" RCP OUTLET PER PLAN ON SHEETS C-2, C-3, C-5 & S-2, PROFILE ON SHEET S-2, DETAILS ON SHEET S-2 & S-3 AND STRUCTURAL DETAILS ON SHEETS S-8 & S-9 PER CALTRANS STD. DETAIL D90A
28. CONSTRUCT ROCK CUT-OFF WALLS AROUND THE OUTSIDE PERIMETER OF ROCK RIP RAP AREAS AS FOLLOWS:
    THE OUTSIDE PERIMETER OF 1/2 TON UNGROUTED ROCK RIP RAP AREAS SHALL BE 5' DEEP AND 5' WIDE
    THE OUTSIDE PERIMETER OF 1/4 TON GROUTED ROCK RIP RAP SHALL BE 5' DEEP AND 3' WIDE
    THE OUTSIDE PERIMETER OF GROUTED FACING ROCK SHALL BE 3' WIDE AND 3' DEEP
29. CONSTRUCT CONCRETE CUT-OFF WALLS PER PLAN ON SHEETS C-2, C-3, C-5 & C-6 AND DETAILS ON SHEET S-3 & S-6
30. CONSTRUCT SPILLWAY SUBDRAIN SYSTEM PER PLAN ON SHEET C-6, SECTIONS & DETAILS ON SHEETS C-6 & C-7.
43. CONSTRUCT 10" THICK REINFORCED CONCRETE FLOATER SLAB PER PLAN AND DETAILS ON SHEET S-3
47. ESTABLISH SURVEY MONUMENT ALONG SPILLWAY EMBANKMENT AT STA.100+00.00 ℄ DAM EMBANKMENT/STA. 10+00.00 ℄ SPILLWAY PER PLAN ON SHEET C5.
48. ESTABLISH SURVEY MONUMENT ALONG SPILLWAY EMBANKMENT AT STA. 99+00.00 ℄ DAM EMBANKMENT PER PLAN ON SHEET C5.
49. ESTABLISH SURVEY MONUMENT ALONG SPILLWAY EMBANKMENT AT STA.101+00.00 ℄ DAM EMBANKMENT PER PLAN ON SHEET C5.

MATERIAL ZONES:

- ZONE 1 MIXED, BORROW FROM BASIN EXCAVATION
- ZONE 2 CLASS 2 AGGREGATE BASE, 6" DEEP
- ZONE 3 3" AC PAVEMENT (ON 6" OF ZONE 2, 95% RELATIVE COMPACTION)
- ZONE 4 CONCRETED ROCK SLOPE PROTECTION (RSP). 1/4 TON, METHOD 'B' PLACEMENT
- ZONE 6 1/4 TON GROUTED ROCK RIP-RAP, THICKNESS = 3' MIN., DEPTH OF GROUT PENETRATION =1.25', METHOD 'A' PLACEMENT
- ZONE 7 1/2 TON UNGROUTED ROCK RIP-RAP, THICKNESS = 3.5' MIN., METHOD 'A' PLACEMENT
- ZONE 8 CONCRETED FACING ROCK, THICKNESS = 1.5' MIN., DEPTH OF GROUT PENETRATION =.75', METHOD 'A' PLACEMENT

SURVEY MONUMENTS GRID COORDINATES			
NORTH	EAST	ELEVATION	DESCRIPTION
1,867,609.72	6,747,224.59	1370.80 FG	STA.100+00.00 ℄ DAM EMBANKMENT = STA. 10+00.00 SPILLWAY AXIS
1,867,609.72	6,747,124.59	1377.60 FG	STA. 99+00.00 ℄ DAM EMBANKMENT
1,867,609.72	6,747,324.59	1377.60 FG	STA.101+00.00 ℄ DAM EMBANKMENT

N

GRAPHIC SCALE 1"=20'

0 20 40 60

REGISTERED PROFESSIONAL ENGINEER JAMES PATRICK BORCUK No. 41807 Exp. 3/31/08 CIVIL STATE OF CALIFORNIA

SAN BERNARDINO COUNTY FLOOD CONTROL DISTRICT 1939 CALIFORNIA

REVISIONS			
MARK	DATE	DESCRIPTION	BY:

SUBMITTED BY:

CHIEF, ENGINEERING DIVISION DATE

RECOMMENDED BY:

ASSIST. FLOOD CONTROL ENGINEER DATE

APPROVED BY:

FLOOD CONTROL ENGINEER DATE

PROJ. ENGR.	DES. BY:	REV'D BY:	DRAWN BY:
T.B.	S.F.B./D.J.N.	J.B.	S.F.B./D.J.N.

SAN BERNARDINO COUNTY FLOOD CONTROL DISTRICT

FONTANA-RIALTO DRAINAGE SYSTEM

CACTUS BASIN NO. 3

GRADING PLAN
SPILLWAY AND 96" RCP
BASIN OUTLET DRAIN

DATE DEC. , 2007

SCALE AS SHOWN

FILE NO. 2-104-

SHEET NO. C-5