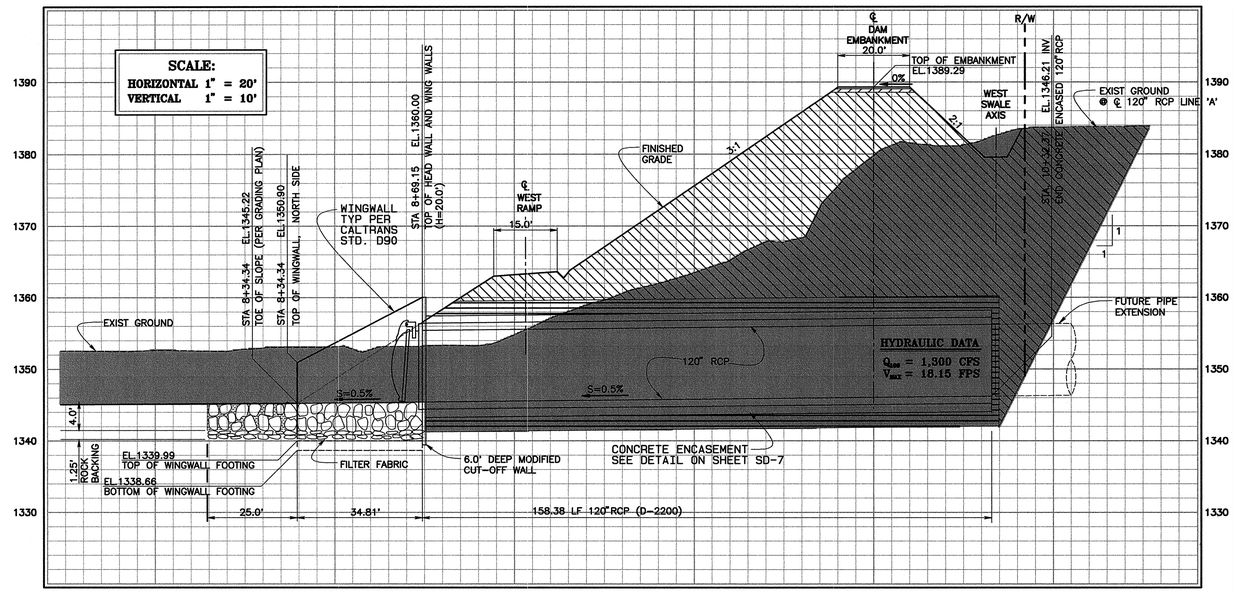
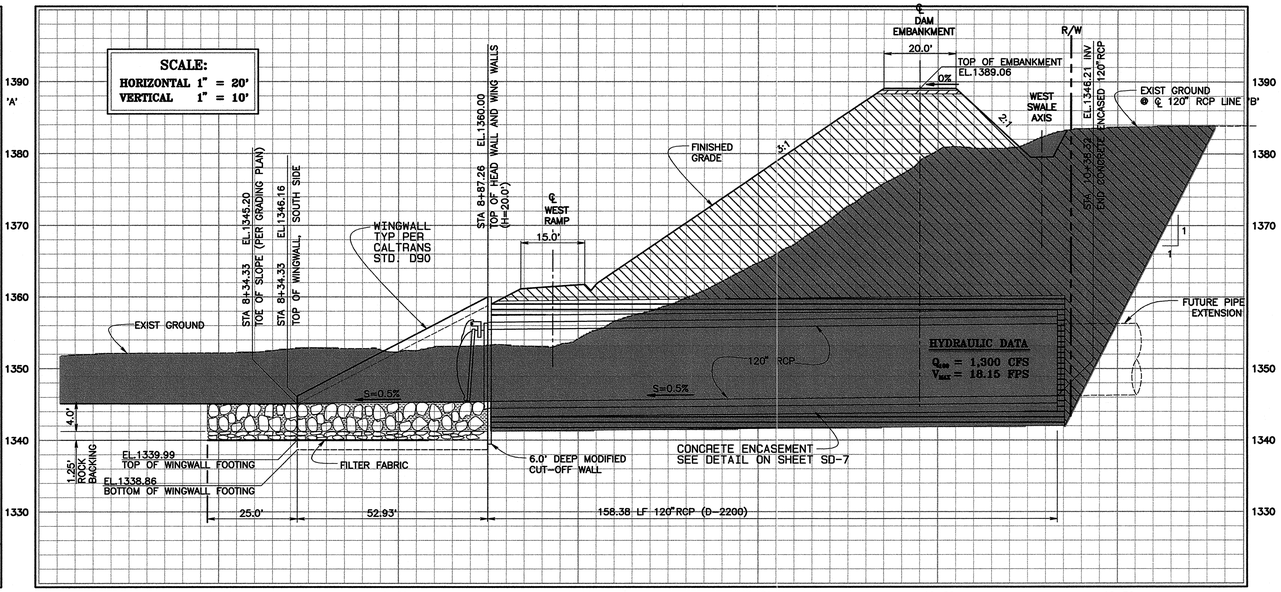
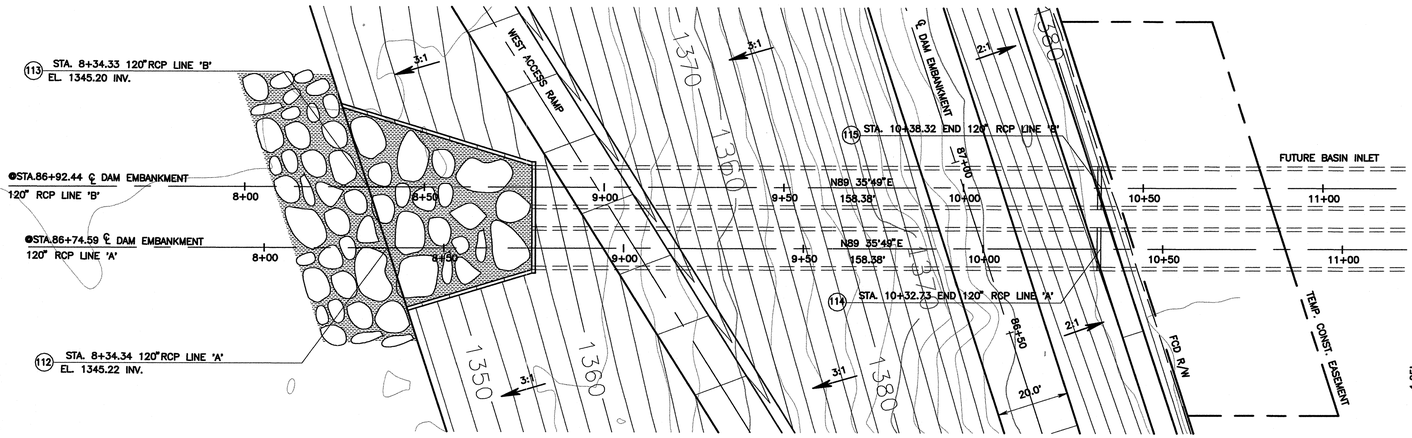


PROFILE – 120" RCP LINE 'A' @ STA 86+74.59 PER PLAN



PROFILE– 120" RCP LINE 'B' @ STA 86+92.44 PER PLAN



PLAN 2 – 120" RCPs, BASIN INLETS

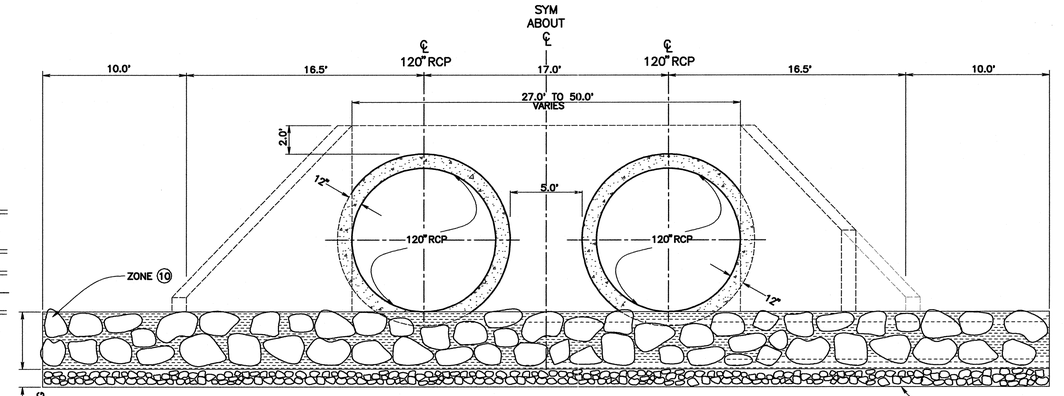
PROJECT COORDINATES				
	NORTH	EAST	ELEVATION	DESCRIPTION
(112)	1,868,462.14	6,746,655.37	1345.22 INV	STA. 8+34.34 120" RCP LINE 'A'
(113)	1,868,445.18	6,746,660.97	1345.20 INV	STA. 8+34.33 120" RCP LINE 'B'
(114)	1,868,460.75	6,746,456.98	1346.21 INV	STA. 10+32.73 END 120" RCP LINE 'A'
(115)	1,868,443.75	6,746,456.98	1346.21 INV	STA. 10+38.32 END 120" RCP LINE 'B'

GRAPHIC SCALE 1"=20'
0 20 40 60

WINGWALL AND HEADWALL MODIFICATIONS:

STRUCTURAL DIMENSIONS FOR WINGWALLS SHOWN ON THE PLAN & PROFILE VIEWS HEREON, FOR THE 120" INLET STRUCTURE SHALL BE AS PER CALTRANS STD. NO. D-90 EXCEPT AS NOTED HEREON.

1. ACTUAL WALL HEIGHTS ARE AS SHOWN ON THE PROFILE VIEW, THE STRUCTURAL SECTION SHALL BE AS PER THE STANDARD DETAIL WITH (DESIGN H=+1' , ACTUAL HEIGHT +1') ADJUST STEEL AT THE TOP OF THE WALL FOR 1'–0", DIFFERENCE BETWEEN THE ACTUAL HEIGHT AND THE DESIGN HEIGHT.
2. LONGITUDINAL STEEL SHALL BE #5 @ 12" OC IN PLACE OF WHAT IS SHOWN IN THE STANDARD DETAIL.
3. HEADWALL FOOTING FOR OUTLET STRUCTURE SHALL BE MODIFIED SO THAT THE DEPTH IS EQUAL TO 6' IN PLACE OF THE 4' SHOWN IN THE STANDARD DETAIL . ADD AND ADJUST BARS SHOWN AS REQUIRED TO MAINTAIN STRUCTURAL LISTING SHOWN IN THE STANDARD PLAN DETAIL.
4. CONSTRUCT WEEPHOLES PER DETAILS SHOWN ON STD. D-90.



TYPICAL RIPRAP CHANNEL SECTION

SCALE 1"=5'

CONSTRUCTION CALLOUTS:

- [2] 3" AC PVMT ROAD SECTION PER
- [8] CHANNEL FENCE PER SHT FCD–II
- [19] CONCRETE BULKHEAD PER RIVERSIDE COUNTY M816(MODIFIED)
- [20] WATERMAN FLAP GATE

MATERIAL ZONES:

- ZONE (1) MIXED, BORROW FROM BASIN EXCAVATION, 93% RELATIVE COMPACTION
- ZONE (2) CLASS 2 AGGREGATE BASE, 6" DEEP
- ZONE (3) 3" AC PAVEMENT (ON 6" OF ZONE 2, 95% RELATIVE COMPACTION)
- ZONE (10) 1/2 TON CONCRETE RIPRAP (T=4.0') WITH UPPER 6" TO 9" OF TOP LAYER EXPOSED. TYPE 'B' PLACEMENT WITH 1.25' THICK ROCK BACKING NO. 2 AND TYPE 'A' ROCK SLOPE ROTECTION FABRIC PER CALTRANS STD. SPEC. SECTION 72

CONSTRUCTION NOTES:

(29) CONSTRUCT CONCRETE CUT–OFF WALLS PER PLAN ON SHEET C–6 AND DETAILS ON SHEETS S–3, S–6

(40) CONSTRUCT 2 –120" RCPs BASIN INLETS PER PLAN, PROFILE AND SECTION ON SHEET SD–5A (D–LOAD PER PROFILE)

(41) CONSTRUCT 2 –120"" RCPs ENCASEMENT PER DETAILS ON SHEET SD–5B

(42) CONSTRUCT HEADWALL AND WINGWALLS FOR 2 –120" RCPs INTLETS PER PLAN, PROFILE ON SHEET SD–5A AND PER CALTRANS STD. DETAIL D90A

REGISTERED PROFESSIONAL ENGINEER JAMES PATRICK BOUCUK 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.R.	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

2–120" RCPs INLETS PLAN, PROFILE AND DETAILS

DATE	SCALE	FILE NO.	SHEET NO.
DEC. , 2007	AS SHOWN	2-104-	SD-6