LAT. "C"
SCALE: HOR. 1"=5' VER. 1"=8'

LAT. "D"
HOR. 1"=5' VERT. 1"=8'

LAT. "E"
HOR: 1"=30' VERT. 1"=20'

LAT. "F"
SCALE HOR 1"=20' VER: 1"=4'

LAT. "G"

LAT. "I"
HOR.: 1"=8'
VERT: 1"=8'

LINE "D"

LINE "C"

CONSTRUCTION NOTES

2	CONST. CONC. COLLAR PER C/R STD. NO. 401
1	CONST. C.B. PER C/R STD. No 405 (W & V AS SHOWN)
9	CONST. J.S. "B" PER C/R STD NO 421
2	CONST. J.S. "C" PER C/R STD NO 422
6	PLACE 1/4 TON RIP-RAP AS SHOWN
7	CONST. M.H. JM PER STD. 432.
13	CONST. 18" RCP. (D= 1800)
2	CONST. 24" RCP (D=2000)
16	CONST. 30" RCP (D= 1760)
18	CONST. 33" RCP. (D= 1750)
2	CONST. 36" RCP (D=1750 CLASS AS SHOWN)
15	CONST. CONCRETE HEADWALL WITH GRATE PER DETAIL AT LOWER RIGHT.
16	CONST. M.H "E-2" PER CITY OF RIVERSIDE STD. DWG NO. 431
2	CONST. 24"RCP(D=1750)

GENERAL NOTES

1. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO CLEAR THE RIGHT-OF-WAY IN ACCORDANCE WITH THE PROVISIONS OF LAW AS IT AFFECTS EACH UTILITY INCLUDING IRRIGATION LINES AND APPURTENANCES AND AT NO COST TO THE CITY.
2. CONSTRUCTION SHALL BE IN ACCORDANCE WITH CITY OF RIVERSIDE, DEPT. OF PUBLIC WORKS, STD DRWGS, STD. DRWG NO. 10 & THE STD. SPECIFICATIONS FOR PUBLIC WORKS CONSTR., CURRENT ED.
3. THE PRIVATE ENGINEER SIGNING THESE PLANS IS RESPONSIBLE FOR ASSURING THE ACCURACY AND ACCEPTABILITY OF THE WORK HEREON. IN THE EVENT OF DISCREPANCIES ARISING DURING CONSTRUCTION AS A RESULT OF ERRORS OR OMISSIONS, THE PRIVATE ENGINEER SHALL BE RESPONSIBLE FOR DETERMINING AN ACCEPTABLE SOLUTION AND REVISING THE PLANS FOR APPROVAL BY THE CITY.
4. BEDDING SHALL BE CITY OF RIVERSIDE STANDARD DRAWING NO. 402, CASE 1
5. The developer shall be responsible for preserving or re-establishing and referencing survey monuments destroyed, disturbed or buried as a result of construction shown hereon.
6. All flagged elevations shall be staked in the field by the private engineer.

NOTE:
TEMP. OUTLET FOR STORM DRAIN SYSTEM UNTIL SUCH TIME THE FINAL ALIGNMENT IS DETERMINED BASED ON THE NEW TENTATIVE TRACT MAP 25496. FURTHERMORE, THE DEVELOPER AGREES TO CONSTRUCT SAID UNDERGROUND STORM DRAIN FACILITIES PRIOR TO 1991 STORM SEASON.

Curve Data

	R	Δ	L	T
1	~~45.00'~~	~~59°56'27"~~	~~47.08'~~	~~25.95'~~
2	50.00'	~~55° 36' 32"~~ 55° 36' 32"	~~48.54'~~ 48.54'	~~26.54'~~ 26.54'
3	250.00'	02°46'02"	12.07'	6.04'
4	200.00'	~~56° 30' 00"~~ 56° 30' 00"	~~197.54'~~ 197.54'	~~107.55'~~ 107.55'
5	~~100.00'~~	~~25°02'43"~~	~~43.71'~~	~~22.04'~~

J.S. "C" DATA @ S.D. STA. 4+40.16 (6)
A = 76°31'08"
B = 24"
C' = 3.2'
D1 = D2 = 30"
E' = 2.9'
L = 3.9'
ELEV. "R" = 03.26
ELEV. "S" = 98.29

M.H. J.M. DATA @ S.D. STA. 3+95.0 (7)

A1 = 32°56'38"	A2 = 30°00'00"
B1 = 18"	B2 = 33"
C1' = 6.6'	C2' = 9.4'
D1 = 30"	D2 = 36"
E' = 8.8'	
L' = 8.3'	
ELEV. R1 = 06.64	ELEV. R2 = 97.49
ELEV. S1 = 97.77	ELEV. S2 = 97.15

J.S. "B" DATA @ S.D. STA. 7+14.29 (3)
A = 60°20'00"
B = 18"
C' = 3.3'
D = 33"
E' = 2.4'
L = 2.6' 11.26
ELEV. R = ~~00.00~~
ELEV. S = ~~00.00~~ 10.62

M.H. JM DATA @ S.D. STA. 8+01.72 (7)

A1 = 60°36'43"	A2 = 56°04'16"
B1 = 18"	B2 = 18"
C1 = 3.8'	C2 = 4.1'
D1 = ~~30~~"	D2 = 33"
E' = 3.7'	L' = 4.7'
ELEV. R1 = 15.42	ELEV. R2 = 15.17
ELEV. S1 = 14.16	ELEV. S2 = 14.16

J.S. "C" DATA @ S.D STA. 10+75.00
A = 68°13'18"
B = 18"
C' = 3.0'
D1 = 18"
D2 = 24"
E' = 2.8'
L' = 3.8'
ELEV. "R" = 26.43
ELEV. "S" = 25.29

SEE TR 20329-1 OFF-SITE STORM DRAIN D-596

SEE DETAIL ON SHEET 2

SECTION "A"-"A"
N.T.S.

TRACT 20329-1
SEE OFF SITE STORM DRAIN IMPROVEMENT D-596

TRACT 3439

CITY OF RIVERSIDE WATER DEPARTMENT
Carl Weingartner 3/1/88
APPROVED BY DATE

NOTES FOR HEADWALL & GRATE
1. ALL STEEL BARS TO BE USED SHALL BE #4 REBAR OR GREATER.
2. BAR SPACING TO BE 6" MAXIMUM.
3. ITEM ANCHOR BOLTS UPON COMPLETION.
4. REMOVE ALL RUST OFF GRATE AND PAINT BLACK USING CITY APPROVED PAINT.
5. HEADWALL TO BE CAL/OSHA PER CALTRANS STD. D-89
AD ALL REINFORCING STEEL #4 BARS, HORIZ. & VERT. SPACING = 18" MAX.
16 HEADWALL & GRATE DETAIL

AS BUILT 3/31/93 RLW

Underground Service Alert
CALL BEFORE YOU DIG
Call: TOLL FREE
1-800 422-4133
TWO WORKING DAYS BEFORE YOU DIG

PRIVATE ENGINEERING NOTE
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.

REGISTERED PROFESSIONAL ENGINEER — TERRY W. CANTY — No. 17550 — Exp. 6/30/89 — CIVIL — STATE OF CALIFORNIA

PREPARED UNDER THE DIRECTION OF:
REGISTERED CIVIL ENGINEER NO. 17550
EXPIRATION DATE 6-30-89 DATE: 9/23/87
APPROVED BY:

J.F. DAVIDSON ASSOCIATES, INC.
CIVIL ENGINEERS • SURVEYORS • PLANNERS
P.O. BOX 493, RIVERSIDE, CA 92502, (714) 686-0844
11200 SO. MT. VERNON AVE. #D, COLTON, CA 92324, (714) 825-1082
73-080 EL PASEO, #103, PALM DESERT, CA 92260, (619) 346-5691
JFD ASSOCIATES

SCALE
DATE SEPT 1987

BENCH MARK:
P.K. NAIL @ TAG IN BASE OF LIGHT STANDARD IN MEDIAN STRIP OF COUNTRY CLUB DR. WEST OF C/L CANYON CREST DRIVE
ELEV. = 1086.06

MARK	REVISIONS	APPR.	DATE
2	REVISED STORM DRAIN - DELETED PER D-596	RLW	9/14/91
1	REVISED STORM DRAIN - DELETED PORTIONS & ADDED SHEET 2	RLW	9/14/91

DESIGNED BY LRS DRAWN BY CMF CHECKED BY LRS

CITY OF RIVERSIDE, CALIFORNIA
DEPARTMENT OF PUBLIC WORKS

	BY	DATE
APPROVED BY		
PRINCIPAL ENGINEER		
PARK DEPARTMENT		
TRAFFIC DIVISION		
CHIEF P.W. ENGR.	RLW	12.14.92
	RLW	12/14/92

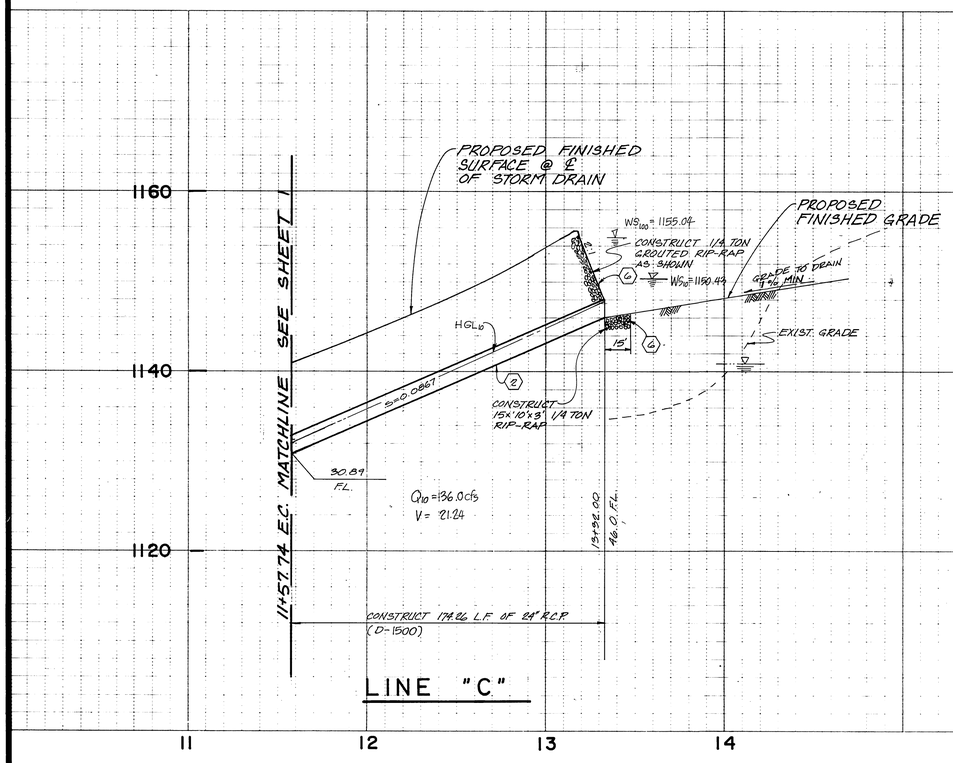
APPROVED BY
DIRECTOR OF PUBLIC WORKS
DATE 12/15/87

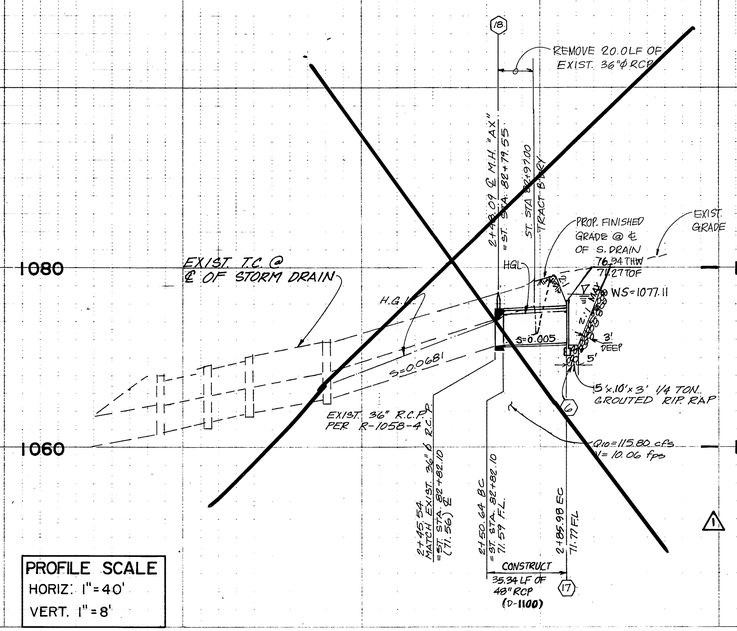
TRACT 20329-1
STORM DRAIN PLAN
VIA SUSANA TO CANYON CREST DRIVE

HORIZ. SCALE: 1" = 40' VERT. SCALE: 1" = 8'

PROJECT NO. D-341A
SHEET 1 OF 2
FILE NO. 870061 (M)

INDEXED 1-12-88 - LH





SEE TR 20329-1 OFF-SITE STORM DRAIN IMPROVEMENT PER D-596

PROFILE SCALE
HORIZ: 1" = 40'
VERT. 1" = 8'

CONSTRUCTION NOTES

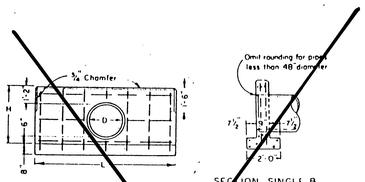
(2) CONSTRUCT 24" R.C.P. (D-1500)

(6) CONSTRUCT 3' DEEP OF 1/4 TON RIP-RAP AS SHOWN

(14) ~~CONSTRUCT 48" R.C.P. (D-1100)~~

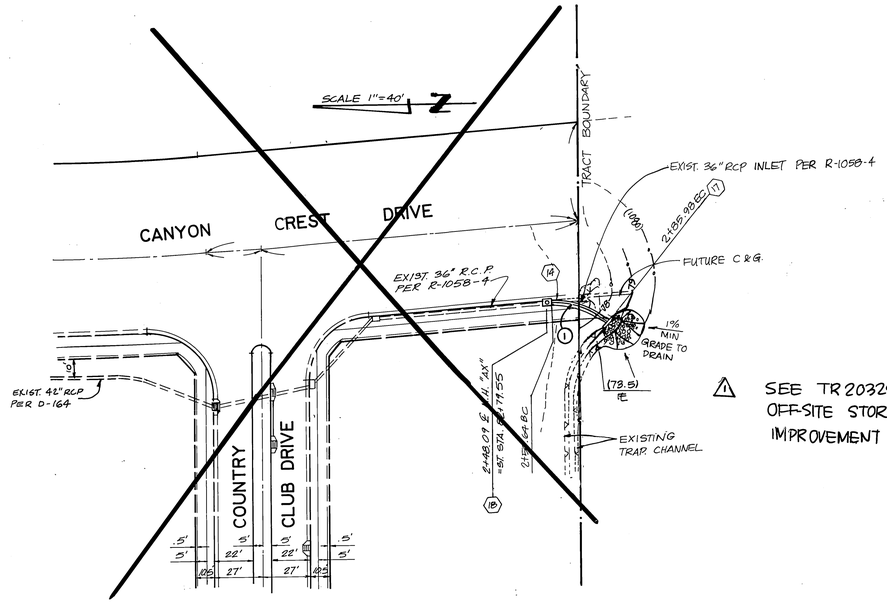
(17) ~~CONSTRUCT HEADWALL PER DETAIL THIS SHEET (CALTRANS STD. DWG. D-89)~~

(18) ~~CONSTRUCT MANHOLE "A-X" PER CITY OF RIVERSIDE STD. DWG. NO. 422~~



D in	H ft-in	SINGLE L ft-in	SINGLE Steel Lbs	SINGLE Conc Cu Yds	DOUBLE L ft-in	DOUBLE Steel Lbs	DOUBLE Conc Cu Yds
12	2-8	5-0	35	0.60	8-0	50	0.94
15	2-11	6-0	40	0.75	8-0	60	1.17
18	3-2	7-0	50	0.91	10-6	75	1.35
21	3-5	7-6	60	1.07	11-6	90	1.52
24	3-8	8-6	75	1.30	12-6	105	1.72
27	3-11	9-6	85	1.39	14-0	115	2.00
30	4-2	10-0	85	1.52	15-0	126	2.21
33	4-5	11-0	100	1.73	16-0	130	2.43
36	4-8	12-0	105	1.95	17-0	145	2.65
39	4-11	12-6	130	2.09	18-0	170	2.88
42	5-2	13-6	140	2.34	19-0	185	3.13
45	5-5	14-6	150	2.60	20-0	195	3.38
48	5-8	15-0	160	2.75	21-0	200	3.64
51	5-11	16-0	180	3.03	22-6	225	4.02
54	6-2	17-0	190	3.31	23-6	240	4.30

~~HEADWALL DETAILS~~



SEE TR 20329-1 OFF-SITE STORM DRAIN IMPROVEMENT PER D-596

CURVE DATA				
No.	△	R	L	T
(1)	45°00'00"	45.00'	35.34'	18.64'

AS BUILT 3/21/03 RM

Underground Service Alert
DIG ALERT NOTICE
Call: TOLL FREE
1-800 422-4133
TWO WORKING DAYS BEFORE YOU DIG

PRIVATE ENGINEERING NOTE

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REGISTERED PROFESSIONAL ENGINEER
EXP 12/31/92

PREPARED UNDER THE DIRECTION OF:
REGISTERED CIVIL ENGINEER NO. 46217
EXPIRATION DATE 12/31/92 DATE: 3/12/91

J.F. Davidson Associates, Inc.
ENGINEERING · PLANNING · SURVEYING · ARCHITECTURE · LANDSCAPE ARCHITECTURE
3880 Lemon Street, Suite 300, P.O. Box 493, Riverside, CA 92502, (714) 686-0844, FAX 714-686-5954
11200 S. Mt. Vernon Ave. Suite "D", Colton, CA 92324, (714) 825-1082
73-080 E. Paseo Suite 1-4, Palm Desert, CA 92260, (619) 346-5691, FAX 619-340-0529

SCALE: 1" = 40'
DATE: MARCH 1991
BENCH MARK: P.K. NAIL & TAG IN BASE OF LIGHT STANDARD IN MEDIAN STRIP OF COUNTRY CLUB DRIVE WEST OF C/L CANYON CREST DRIVE. ELEV. = 1068.06

MARK	REVISIONS	APPR	DATE
1	REVISED STORM DRAIN - DELETED PER D-596	FRED	8/4/91

DESIGNED BY T.C.L. DRAWN BY C.M.F. CHECKED BY J.D.S.

CITY OF RIVERSIDE, CALIFORNIA
DEPARTMENT OF PUBLIC WORKS

	APPROVED BY	DATE
PRINCIPAL ENGINEER		
PARK DEPARTMENT		
TRAFFIC DIVISION		
CHIEF P.W. ENGR.		

APPROVED BY
DIRECTOR OF PUBLIC WORKS
DATE 4/18/91

TRACT 20329-1
STORM DRAIN PLAN
LINE "C" CANYON CREST DRIVE
HORIZ. SCALE 1" = 40' VERT. SCALE 1" = 8'

PROJECT NO D-341A
SHEET 2 OF 2
FILE NO. 8911565