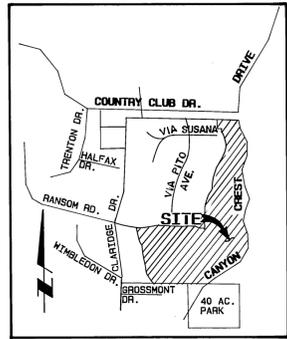


# STORM DRAIN IMPROVEMENT PLANS

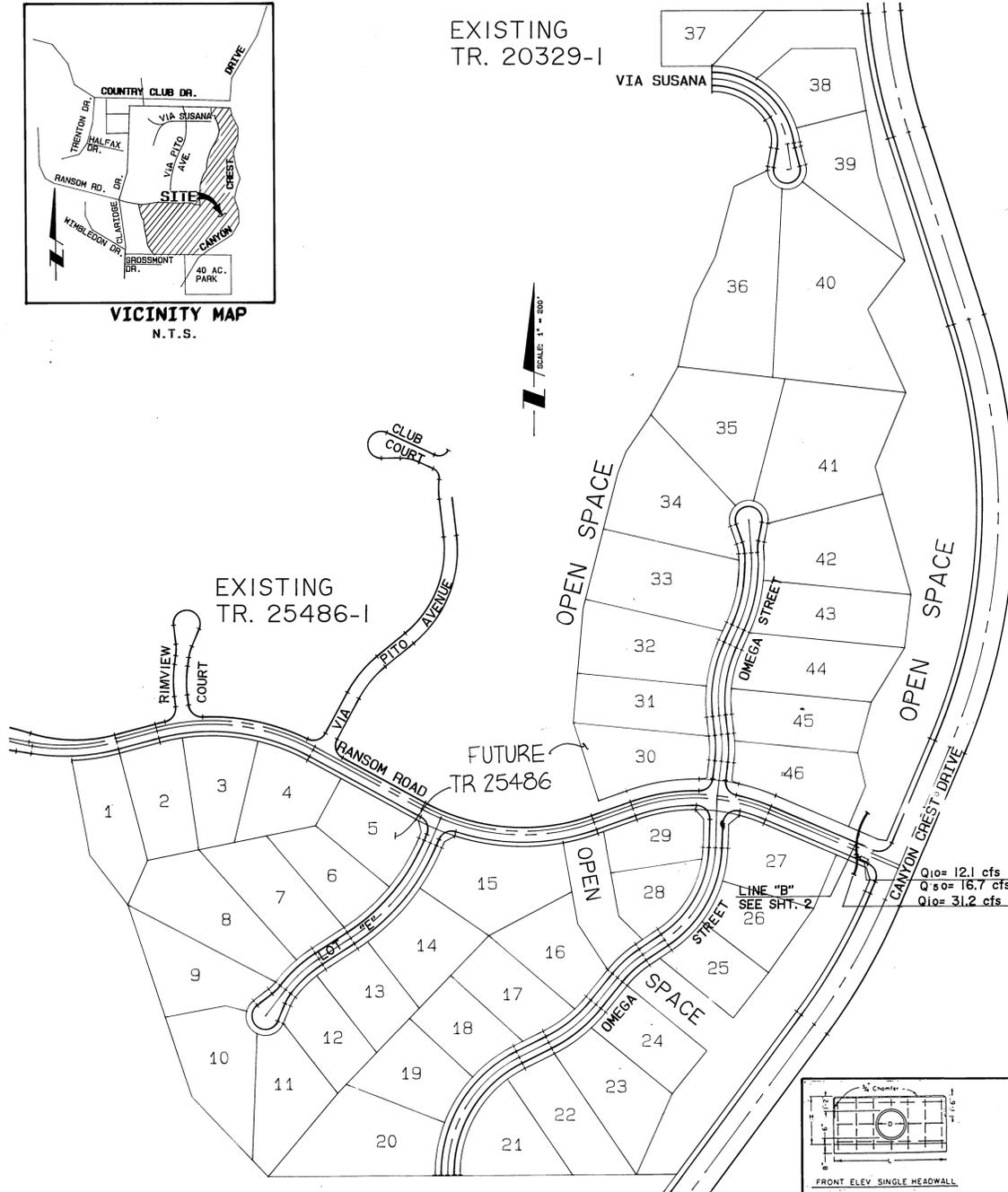
## STORM DRAIN NOTES

- Quantities shown are for information only and the City of Riverside is not responsible for their accuracy.
- Construction shall be in accordance with the City of Riverside Dept. of Public Works, Standard Drawings, Std. Dwg No. 10, and the Standard Specifications for Public Works Construction, Current Edition.
- 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.
- Notice to contractor. The existence and location of any underground utility pipes or structures shown on these plans were obtained by a search of the available records. To the best of our knowledge there are no existing utilities except as shown on these plans. The contractor is required to take precautionary measures to protect the utility lines shown and any other lines not of record or not shown on these plans.
- 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 the private engineer shall be responsible for determining an acceptable solution and revising the plans for approval by the City.
- The contractor shall call in a locations request to UNDERGROUND SERVICE ALERT (USA) Phone No. 1-800-422-4133, two working days before digging. No construction will be issued by the Public Works Department involving excavation for underground facilities unless the applicant has been provided an Inquiry Identification Number by U.S.A.
- 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.
- All embankment fill shall be compacted to minimum of 90% maximum dry density and shall be of an approved quality.
- Before the Rip-Rap is accepted, as placed, at the outlet of any drainage structure, it shall be tested under flows as close as possible to design conditions with water obtained from fire hydrants in the immediate area.
- All flagged elevations shall be staked in the field by the private engineer.
- Contractor agrees that he shall assume sole and complete responsibility for job site conditions during the course of construction of this project, including safety of all persons and property; that this requirement shall apply continuously and not be limited to normal working hours; and that the contractor shall defend, indemnify and hold the owner and the engineer harmless from any and all liability, real or alleged, in connection with performance of work on this project, excepting for liability arising from the sole negligence of the owner or the engineer.
- The concrete cover on the inside of all concrete pipe must be increased to provide a min. of 1.5" over the reinforcing when the design velocities exceed 20 fps. The concrete design strength in these reaches shall be:  
fc = 5000 psi. for velocities exceeding 20 fps. and  
fc = 6000 psi. for velocities exceeding 30 fps.
- All rip rap will be natural river-rock, not blasted rock.
- Grout will be color treated to blend into the natural surrounding terrain.
- All drainage features including grates, trash racks, headwalls, etc. will be color treated to blend in with the natural surrounding terrain.



VICINITY MAP  
N.T.S.

EXISTING  
TR. 20329-1



EXISTING  
TR. 25486-1

FUTURE  
TR 25486

Q10= 12.1 cfs  
Q5= 16.7 cfs  
Q1= 31.2 cfs

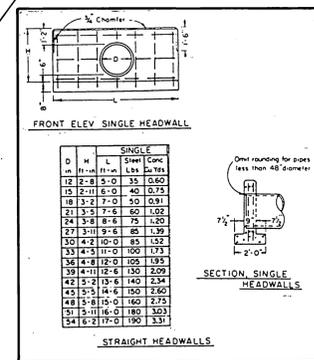
## CONSTRUCTION NOTES

### QUANTITIES

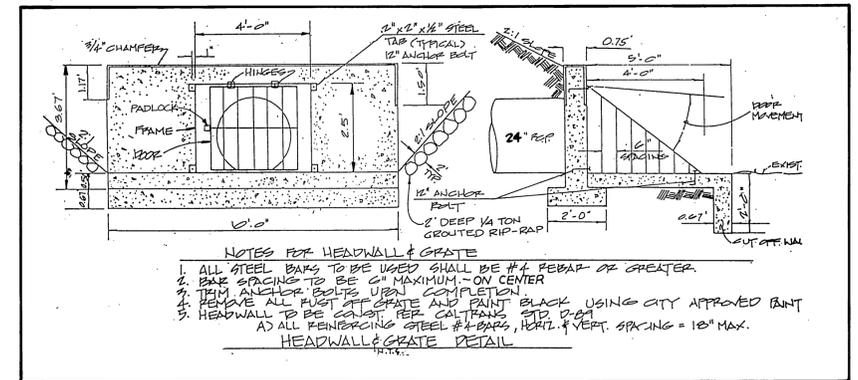
- |   |  |        |
|---|--|--------|
| ② | CONSTRUCT 24" R.C.P. (D-2000).   | 103 LF |
| ③ | CONSTRUCT CALTRANS HEADWALL D-89 PER DETAIL ON THIS SHEET.               | 2 EA   |
| ④ | CONSTRUCT HEADWALL GRATE PER DETAIL ON THIS SHEET.                       | 2 EA   |
| ⑤ | CONSTRUCT 1/4 TON GROUDED RIP-RAP.                                       | 90 CY  |
| ⑥ | CONSTRUCT JUNCTION STRUCTURE "C" PER CITY OF RIVERSIDE STD. DWG. No. 422 | 1 EA   |
| ⑦ | CONSTRUCT CONCRETE COLLAR PER CITY OF RIVERSIDE STD. DWG. No. 424.       | 1 EA   |
| ⑧ | CONSTRUCT CATCH BASIN PER CITY OF RIVERSIDE STD. DWG. No. 405.           | 1 EA   |

## INDEX MAP

SCALE: 1"=200'



HEADWALL DETAIL ③



GRATE DETAIL ④

CITY OF RIVERSIDE  
WATER SYSTEM  
(VOID ONE YEAR FROM THIS DATE)

CITY OF RIVERSIDE  
PLANNING DEPARTMENT

CANTY ENGINEERING GROUP, INC  
2020 IOWA AVENUE, SUITE 102  
RIVERSIDE, CA 92517  
TEL: (909) 683-5294 FAX: (909) 683-5301



APPROVED BY: *A.J. Spad* DATE: 12/1/93

APPROVED BY: *Jed A. Sel* DATE: 12/1/93

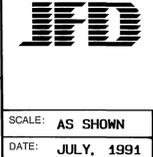
REGISTERED CIVIL ENGINEER No. 50293  
EXPIRATION DATE: 6-30-01



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.



PREPARED UNDER THE DIRECTION OF:  
*J.F. Davidson*  
REGISTERED CIVIL ENGINEER No. 46212  
EXPIRATION DATE: 12/31/94 DATE: 8/20/93



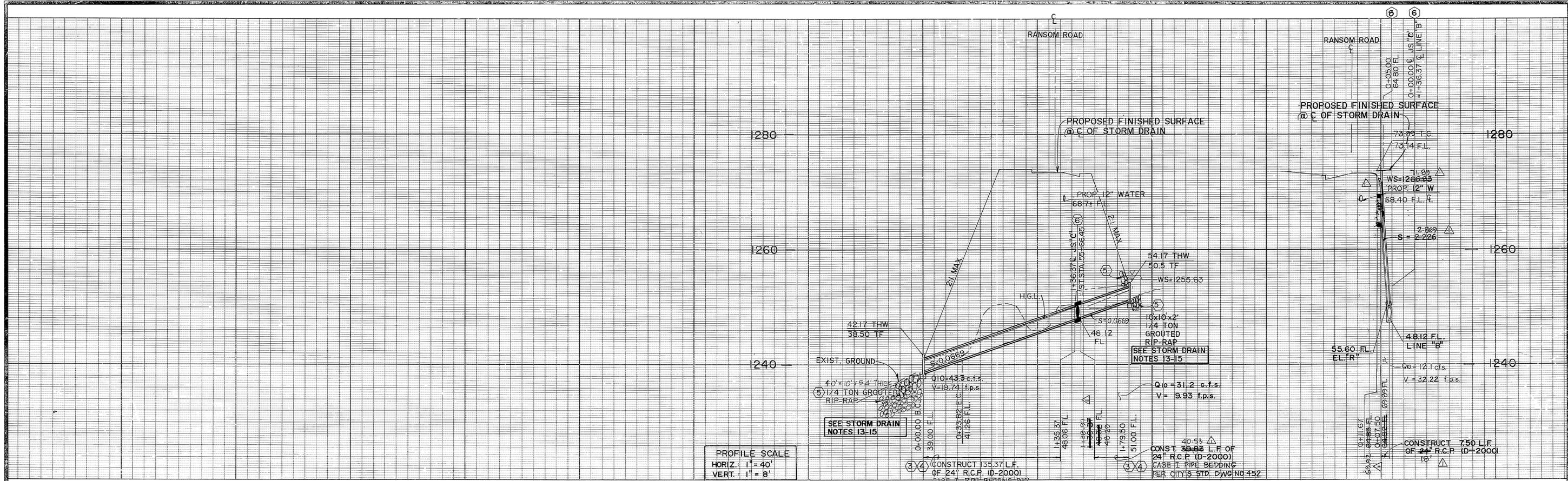
CITY BUSINESS TAX CERT. NO. 4994 EXP. DATE: 12-31-94  
J.F. Davidson Associates, Inc.  
ENGINEERING PLANNING SURVEYING ARCHITECTURE LANDSCAPE ARCHITECTURE  
3880 Lemon Street, Suite 300 P.O. Box 493 Riverside, CA 92502 (714) 686-0844 FAX 714-686-9854  
11200 S. Mt. Vernon Ave., Suite "D" Colton, CA 92324 (919) 346-8991 FAX 619-340-0529

SCALE: AS SHOWN	BENCH MARK: P.K. NAIL & TAG IN BASE OF LIGHT STANDARD IN MEDIAN STRIP OF COUNTRY CLUB DRIVE 60' + WEST OF C.L. CANYON CREST DRIVE. ELEV. = 1068.05
DATE: JULY, 1991	
DESIGNED BY: T.C.L.	DRAWN BY: J.A.A.
CHECKED BY: J.D.S.	

CITY OF RIVERSIDE, CALIFORNIA  
DEPARTMENT OF PUBLIC WORKS  
APPROVED BY: *[Signature]* DATE: 10/24/94  
PRINCIPAL ENGINEER  
PARK DEPARTMENT  
TRAFFIC DIVISION  
CHIEF P.W. ENGR. *[Signature]* DATE: 10/24/94

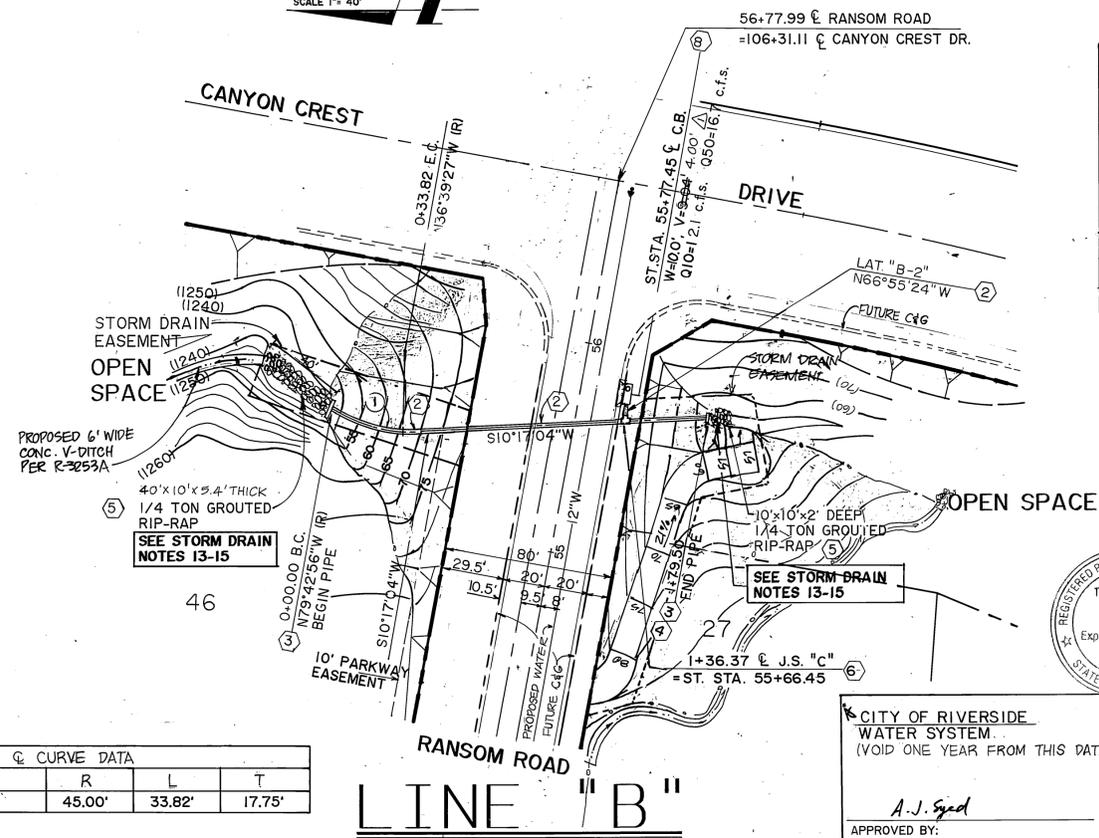
TRACT 25486  
RANSOM ROAD EXTENSION  
STORM DRAIN IMPROVEMENT PLANS  
TITLE SHEET  
FOR: CHRISTIAN BERGF & ASSOCIATES  
PROJECT NO. 8911565  
D-625  
SHEET 1 OF 2  
FILE NO.: 8911565

INDEXED 11-19-94 G/H



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

SCALE 1" = 40'



C.S. "C"	
A	77° 12' 28"
B	24' 10"
C	30' 2.71'
D <sub>1</sub>	24'
D <sub>2</sub>	24'
E	30' 2.60'
L	40' 3.60'
EL'R	54.60 56.12
EL'S	48.42 52.05

C. CURVE DATA				
No.	Δ	R	L	T
①	43°03'29"	45.00'	33.82'	17.75'



CANTY ENGINEERING GROUP, INC.  
 2020 IOWA AVENUE, SUITE 102  
 RIVERSIDE, CA 92517  
 TEL: (909) 683-5234 FAX: (909) 683-5301  
 5/5/99

CITY OF RIVERSIDE  
 WATER SYSTEM  
 (VOID ONE YEAR FROM THIS DATE)  
 APPROVED BY: A.J. Sped DATE: 12/2/99

CITY OF RIVERSIDE  
 PLANNING DEPARTMENT  
 APPROVED BY: J. D. Asel DATE: 12/2/99

**Underground Service Alert**  
 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.



PREPARED UNDER THE DIRECTION OF:  
 REGISTERED CIVIL ENGINEER NO. 46212  
 EXPIRATION DATE: 12/31/94 DATE: 1/20/93

**J.F. Davidson Associates, Inc.**  
 ENGINEERING PLANNING SURVEYING ARCHITECTURE LANDSCAPE ARCHITECTURE  
 3880 Lemon Street, Suite 300 P.O. Box 483 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 El Paseo, Suite 106 Palm Desert, CA 92260 (919) 348-0591 FAX 919-340-9529

SCALE: AS SHOWN BENCH MARK: P.K. NAIL & TAG IN BASE OF LIGHT STANDARD IN MEDIAN STRIP OF COUNTRY CLUB DRIVE 60' WEST OF C.L. CANYON CREST DRIVE. ELEV. = 1068.06  
 DATE: JULY, 1991

DESIGNED BY T.C.L. DRAWN BY A.S. CHECKED BY J.D.S.  
 REVISIONS: REVISED STORM DRAIN PER AS-BUILT JS"C

CITY OF RIVERSIDE, CALIFORNIA  
 DEPARTMENT OF PUBLIC WORKS  
 APPROVED BY: [Signature] DATE: 10/24/90  
 DIRECTOR OF PUBLIC WORKS

TRACT 25486  
 STORM DRAIN IMPROVEMENT PLANS  
 LINE "B"  
 FOR: CHRISTIAN BERGMAN & ASSOCIATES  
 PROJECT NO. 8911565  
 SHEET 2 OF 2  
 FILE NO.: 8911565

INDEXED 11-14-94