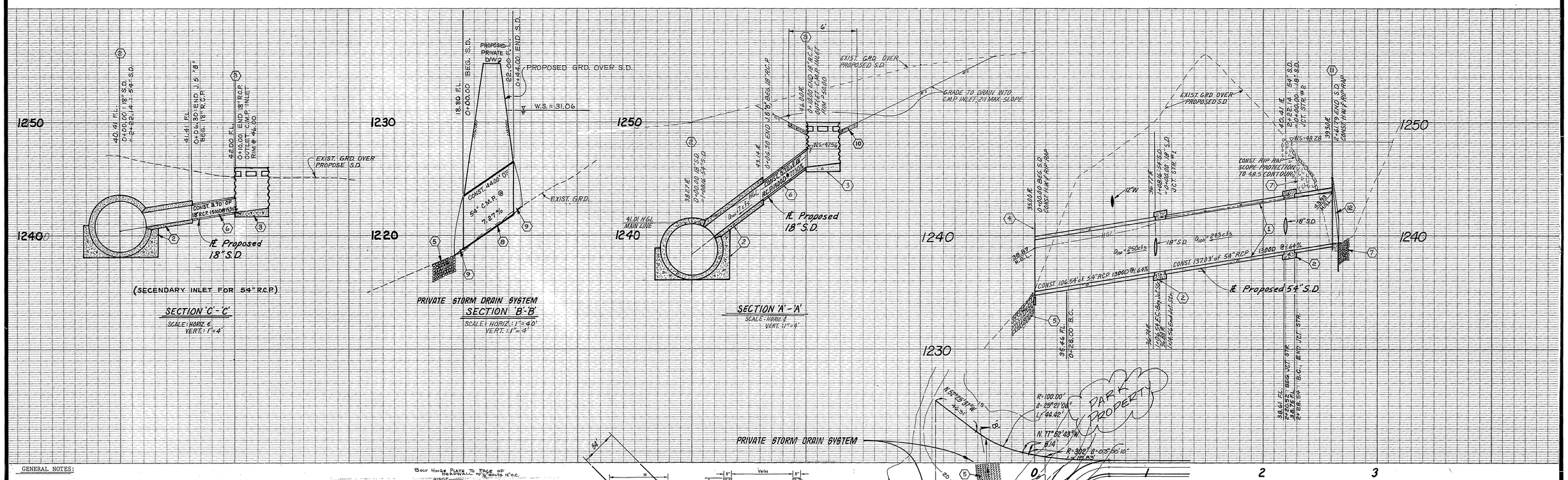

GENERAL NOTES:

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 THE CITY OF RIVERSIDE DEPT. OF PUBLIC WORKS, STANDARD DRAWINGS, AND THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, 1982 EDITION.
3. ALL FLAGGED ELEVATIONS SHALL BE STAKED IN THE FIELD BY THE PRIVATE ENGINEER.
4. *QUANTITIES SHOWN ARE FOR INFORMATION ONLY AND THE CITY OF RIVERSIDE IS NOT RESPONSIBLE FOR THEIR ACCURACY.*
5. THE PRIVATE ENGINEER SIGNING THESE PLANS IS RESPONSIBLE FOR ASSURING THE ACCURACY AND ACCEPTABLILITY 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.

CONSTRUCTION NOTES:

(1) INSTALL 54" R.C.P. 1300D.
(2) CONSTRUCT JUNCTION STRUCTURE "B" PER CITY STD. DWG. NO. 421.
(3) CONSTRUCT C.M.P. INLET PER CITY STD. DWG. NO. 412, WITH GRATED TOP.
(4) CONSTRUCT PIPE HEADWALL PER DETAIL "A" THIS SHEET.
(5) CONSTRUCT RIP RAP BLANKET 20' x 20' IN LENGTH OF 20" NOMINAL DIAMETER ROCK WITH 3" AIR BLOWN MORTAR BASE (2' DEEP).
(6) INSTALL 18' R.C.P. 1500D.
(7) CONSTRUCT RIP RAP SLOPE PROTECTION WITH 20" NOMINAL DIAMETER ROCK AND 3" AIR BLOWN MORTAR BASE (2' DEEP).
(8) INSTALL 54" C.M.P., 10 GAGE.
(9) INSTALL FLARED END SECTION PER DETAIL "B" THIS SHEET.
(10) CONSTRUCT APRON 6' DIAMETER APRON AROUND C.M.P. INLET WITH 6 x 6 - 10 - 10 WIRE MESH AND 3 INCHES OF GUNITE.
(11) CONSTRUCT HEADWALL WITH WING WALLS PER DETAIL "C" THIS SHEET.
(12) CONSTRUCT TRASH RACK PER DETAIL "D" THIS SHEET.

DIA. OF PIPE	DIMENSIONS L	E	F	W	SINGLE PIPE 15° TYPE WING TYPE CONC. CY.	STEEL LBS.	CONC. CY.	STEEL LBS.	DOUBLE PIPE 15° TYPE WING TYPE W	CONC. CY.	STEEL LBS.	CONC. CY.	STEEL LBS.
54"	5'-4 7/8"	3'-0"	4'-6"	7'-8½"	—	—	6.4	640	—	—	—	—	—

Note: Dimensions E and L apply to wing type only.

NOTES
1. Skewed Pipes: Dimension W to be increased to take care of increased width or length due to skew of multiple pipes.
2. Tops of headwalls, on grade culverts, shall be placed parallel to profile grade when the grades are 3% or more.
3. Concrete shall be 564-C-3000.
4. Exposed corners shall be chamfered 3/4".
5. Multiple pipes shall be set a distance of D/2, with a 1' minimum, between outside diameters of pipes.
6. For pipe wall thickness greater than 3" use Alternate Detail C.

NOTES
1. All Tee bodies to have 0.109" thick sides and 0.138" thick center panels. Width of center panels to be greater than 30% of the pipe periphery. Multiple panel bodies to have lap seams which are to be tightly joined by ¼" galvanized rivets or bolts.
2. End of pipe to be finish with annular corrugations to conform to flared end section so that no leakage results from the connection. Other designs may be used with approval of the Engineer.

CIRCULAR PIPES DIMENSIONS INCHES						
PIPE DIA.	A	B	C	D	E	F
54"	9.109"	18	30	12	84	102

BENCH MARK

STANDARD BRASS DISK STAMPED G 1144 1961, 2.15 MILES SOUTH ALONG THE ATCHISON TOPEKA AND SANTA FE RAILWAY FROM THE STATION AT HIGHGROVE, ABOUT 0.2 MILE NORTHWEST OF THE CROSSING OF BLAINE STREET, AT THE HIGHLAND GRAMMAR SCHOOL, SET VERTICALLY IN THE WEST WALL OF A CONCRETE PATIO, 118 FEET EAST OF THE EAST RAIL, 117 FEET NORTHWEST OF THE SOUTHWEST CORNER OF THE SCHOOL BUILDING 2 FEET ABOVE THE GROUND, AND ABOUT 4 FEET HIGHER THAN THE TRACT.
DATE: 1970 ELEVATION: 1077.842
U.S.C.& G.S. DESIGNATION G 1144 RIVERSIDE COUNTY DESIGNATION 600-53-68.

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.

California Council of Civil Engineers & Land Surveyors

CITY OF RIVERSIDE
DOMESTIC SYSTEM & IRRIGATION SYSTEM
Fred Lantz 12/9/82
WATER SYSTEMS MANAGER DATE

J. F. DAVIDSON ASSOCIATES
CIVIL ENGINEERS - SURVEYORS - PLANNERS
3428 TENTH STREET
RIVERSIDE, CALIFORNIA PHONE: (714) 686-0844
APPROVED BY Joel W. Cody DATE 7/19/82
R.E. No. 17530
W.O. 81-7342 FOR: CANYON CREST HEIGHTS F.B.

MARK	REVISIONS	APPR.	DATE
1	MARIN WAY CHG to RENA WAY		11/12/82

DESIGNED BY N.M.P. DRAWN BY C.M.F. CHECKED BY S.R.W.

CITY OF RIVERSIDE, CALIFORNIA
PUBLIC WORKS DEPARTMENT

APPROVED BY	BY	DATE
PRINCIPAL ENGINEER		
PARK DEPARTMENT		
TRAFFIC DIVISION		
CHIEF PUB. WKS. ENGR.		

APPROVED BY DIRECTOR OF PUBLIC WORKS
DATE 12/30/82

STORM DRAIN PLAN & PROFILE
TRACT 9713
SCALE: HORIZ: 1" = 40' VERT: 1" = 4'

ACCOUNT No.
DRAWING NUMBER D-427
SHEET 1 OF 1
FILE NO. 81-7342(M)

*As built 2-11-87 TE