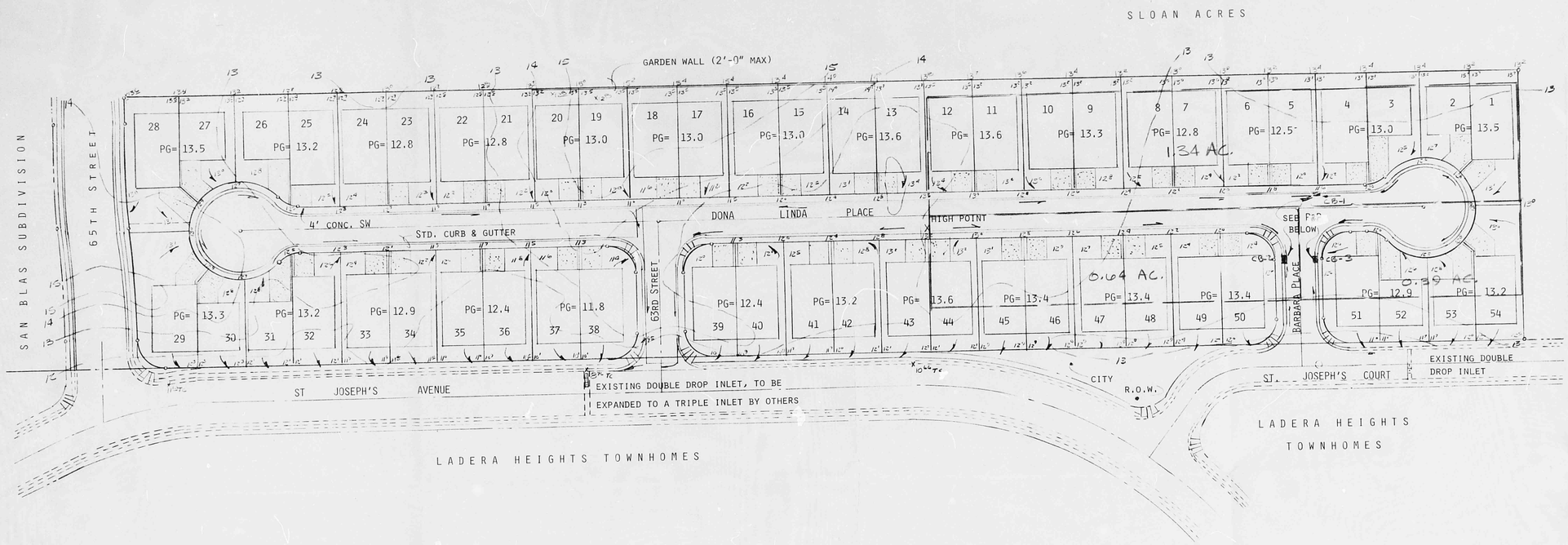
HYDROLOGY

G10/D4
ONE PLAN

G10-D4

1 PLAN



SCALE: 1"=50'

LEGEND

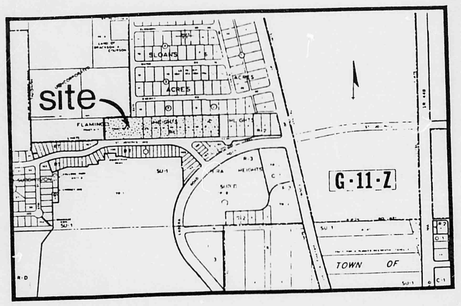
PG = 12.4 — PAD GRADE ELEVATION, TO BE CONSTRUCTED TO A TOLERANCE OF +0.4' TO -0.2'

PROPOSED SPOT ELEVATION

EXISTING ELEVATION

EXISTING CURB & GUTTER

CONCRETE PAVING



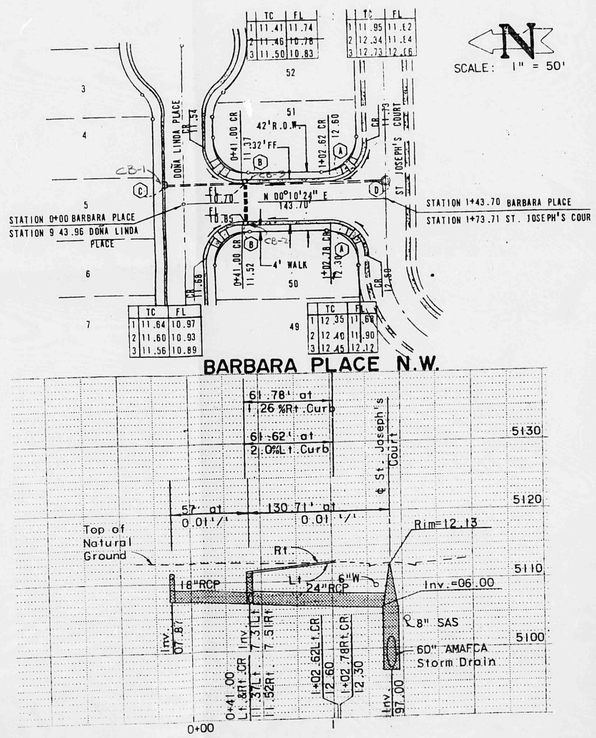
VICINITY MAP

DRAINAGE NOTES

1. LOTS 28-54 ARE ALLOWED TO DISCHARGE ONE-HALF OF THEIR GENERATED STORM WATERS INTO THE RIGHT-OF-WAY OF 65TH STREET, ST. JOSEPH'S AVE. AND ST. JOSEPH'S COURT.
2. LOTS 1-27 MAY REAR YARD POND THOSE RAINFALL VOLUMES WHICH FALL IN THE REAR AND SIDE YARD AREAS ONLY. OTHER STORM WATERS MUST BE RELEASED TO THE PUBLIC RIGHT-OF-WAY.
3. STORM WATERS EXITING THE SITE AT 63RD STREET WILL ENTER INTO THE 60" DIA. OUTFALL STORM DRAIN OF THE LADERA DETENTION FACILITY.
4. STORM WATERS GENERATED FROM LOTS 1-12 AND THE FRONT PORTION OF LOTS 44-54 ARE CAPTURED INTO A SERIES OF 3 SINGLE "C" CATCH BASINS AT THE INTERSECTION OF BARBARA PLACE AND DONA LINDA PLACE. AS SHOWN ON THE ACCOMPANYING PLAN AND PROFILE, THESE STORM WATERS ARE THEN DISCHARGED INTO THE PREVIOUSLY MENTIONED OUTFALL SYSTEM.

DRAINAGE CALCULATIONS

		(100 YEAR)	(10 YEAR)
1. UNDEVELOPED CONDITIONS			
A = 7.0 Ac. = 304,920 SF			
'C'= 0.3			
D = 2.2" = 0.183'			
Q=CIA FOR Tc = 10 MIN. I = 4.73 =(0.30)(4.73)(7.0) = 9.93	USE	10 CFS	6.5 CFS
V=CDA =(0.30)(0.183)(7.0)(43,560) =		16,740 CF	10,998 CF
2. DEVELOPED CONDITIONS			
AREA RUNNING OFF TO ST. JOSEPH'S AVENUE VIA 63RD ST.			
A = 3.5 Ac.			
'C'= 0.62			
Q = (0.62)(4.73)(3.5) =		10.26 CFS	6.7 CFS
V = (0.62)(0.183)(3.5)(43,560) =		17,298 CF	11,365 CF
AREA ENTERING NEW STORM DRAINS			
A = 2.68 Ac			
'C'= 0.62			
Q = (0.62)(4.73)(2.68) = 7.86 CFS	USE	8 CFS	5.2 CFS
V = (0.62)(0.183)(2.68)(43,560) =		13,245 CF	8,702 CF



CONSTRUCTION NOTES

A TRANSITION FROM MOUNTABLE ROLL-TYPE CURB & GUTTER TO STANDARD CURB AND GUTTER

B CATCH BASIN SINGLE "C" DWG. K-4-2 (MODIFIED) STATION 0+43.00 LT. & RT., BARBARA PLACE (GRATE ELEV.=10.70; INV. ELEV.=07.31)LT. (GRATE ELEV.=10.85; INV. ELEV.=07.51)RT.

C CATCH BASIN SINGLE "C" DWG. K-4-2 (MODIFIED) STATION 9+57.96 LEFT, DONA LINDA PLACE GRADE ELEV.=10.78; INV. ELEV.=07.87

D TYPE "E" MANHOLE, 8' I.D.

E CURVES ARE CONCENTRIC WITH 25' RADIUS. R.O.W. CURVES Δ = 48°55'03" L = 25.61' R = 30.00'

FEB 17 1984 HYDROLOGY SECTION

G10/D4

Date 12-1-83 Designed FCA Checked FCA

Isaacson & Arfman, P.A.
CONSULTING ENGINEERING ASSOCIATES
Albuquerque, New Mexico

REVISED DRAINAGE EXHIBIT

Flamingo Heights Subdivision

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