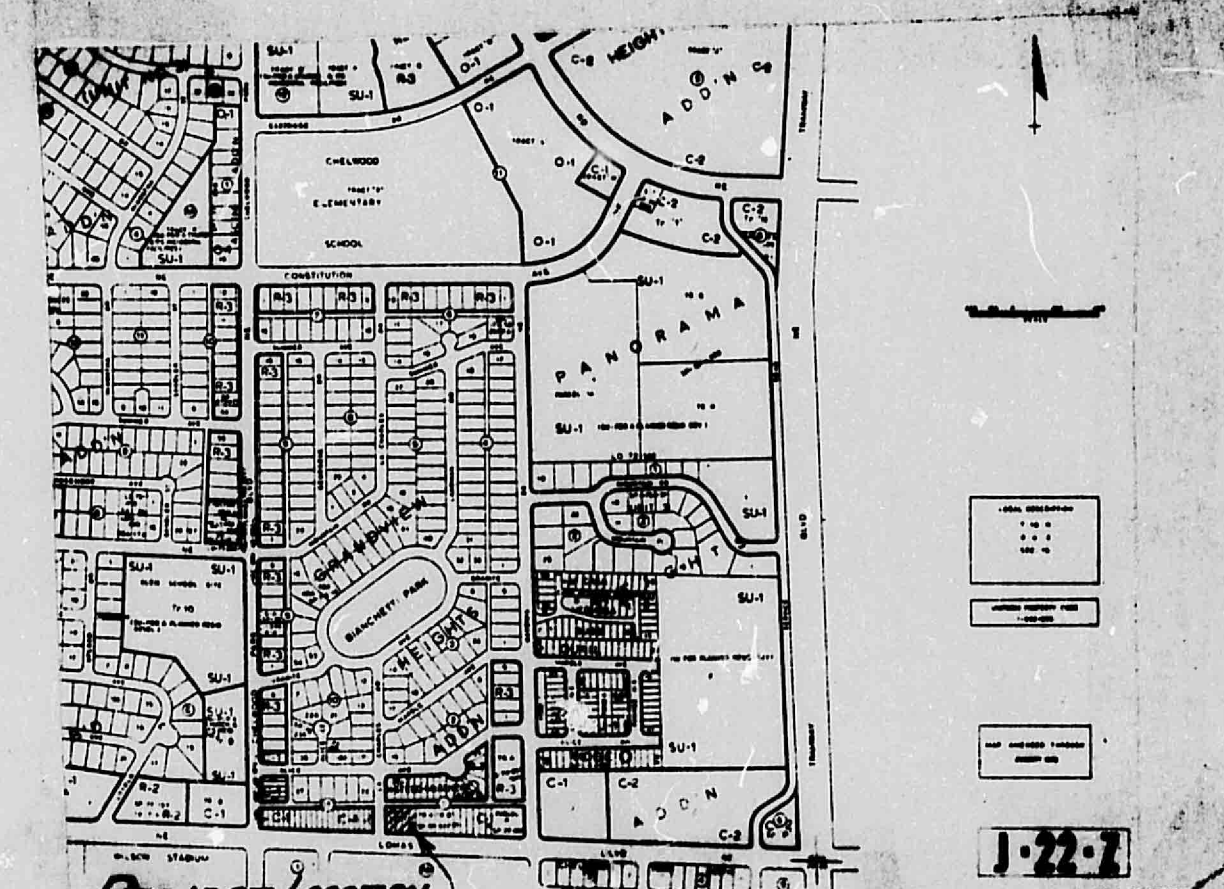
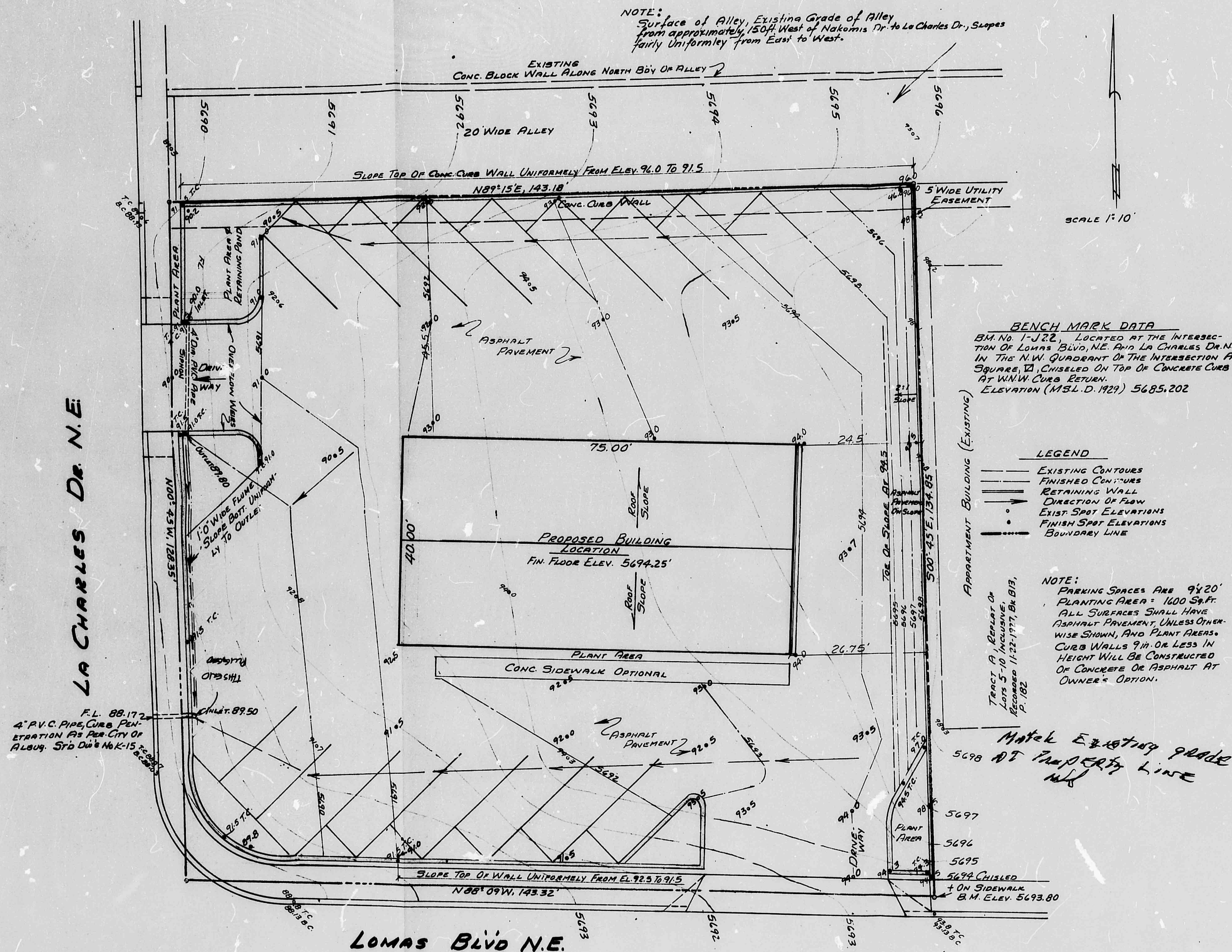


LA CHARLES DR. N.E.



VICINITY MAP

DRAINAGE PLAN

The following items concerning the Drainage Plan for BILL STANDERWICK 12,901 Lomas Blvd N.E.

1. Vicinity Map
2. Drainage Plan
3. Drainage Calculations

CALCULATIONS

Ground Cover Information

1. From U.S.G.S. Bernalillo County Soil Survey Plate 32
Em B - Embudo Gravelly fine sandy loam

2. Existing Conditions
Area (Total) = 18,861.43 Sq. Ft. = 0.433 Acres.
Area (Imp.) = 0
C = 0.39 (D.P.M. Plate 22.2 C-1)

3. Developed Conditions
Area For Street Sidewalk 949 Sq. Ft.
Landscape Area 1500 Sq. Ft.
Area (Imp.) 16,412.50 Sq. Ft. = 0.38 Ac.

Rational Method

1. Discharge: $Q = C_i A$, Where C varies
 $L = 5.18$ m/hr. from D.P.M. Chart
A = Area in Acres

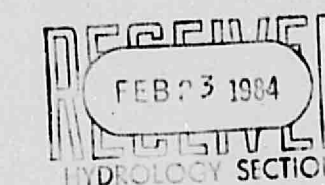
2. Volume: $V = C_i A (t)$
Where C varies
 $P = 2.85$ in. (D.P.M. Plate 22.2 D-1)
A = Area in Sq. Ft.

3. Existing Conditions (Drainage To La Charles Drive)
 $Q_{100} = C_i A = 0.34(5.18)(0.433) = 0.76$ c.f.s.
 $V_{100} = 0.34 \times 2.45/12 \times 18,861 \times 1/2 = 655$ Cu. Ft.

4. Developed Conditions (Drainage To La Charles Drive)
 $Q_{100} = 0.76(5.18)(0.38) = 1.38$ c.f.s.
 $V_{100} = 0.76 \times 2.45/12 \times 16,412 = 2,346$ Cu. Ft. (2,500 Cu. Ft. Furnished)

Controlled Release

1. $Q = CA^{1/2} S^{1/2} = 0.8 \times 0.0873 \times 8.02 = 0.566$ c.f.s. (A = 10' Ave.)
Overflow Weir (20' Wide Driveway)
 $Q = 3.33 L H^{3/2} = 1.38 = 3.33 \times 20 \times H^{3/2}$
 $H = 0.36$ inches (Free Bd. = 6")



DRAINAGE PLAN

FOR
BILL STANDERWICK 12,901 Lomas N.E.

DRAINAGE PLAN, BY
Thomas J. Harting
N.M.P.E. & L.S. No. 3345

12-1-1983

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