

GRADING AND DRAINAGE PLAN
FOR SUBDIVIDING LAND IN
UNIT 1
LOOP INDUSTRIAL DISTRICT

LEGAL DESCRIPTION
TRACT C and TRACT D, UNIT 1, LOOP INDUSTRIAL DISTRICT SUBDIVISION.

BENCH MARK
ACS Brass Cap 8-C17, in top of curb 24' west of Washington Street centerline, 0.3 miles north of Paseo Del Norte (Los Angeles Blvd.) Elev. 5111.029 MSL.

TOPOGRAPHY
The topography is from the City of Albuquerque Flood Boundary and Floodway Maps. No field survey was performed.

GENERAL NOTES
1) No buildings are proposed at this time.
2) No drive pads are proposed at this time.
3) This plan is pursuant to a subdivision plat. Minor rough grading and private infrastructure are proposed at this time. The future development of individual lots or tracts will be subject to Building Permits and/or Site Development Plans and associated Grading and Drainage Plans.
4) This site is within the boundaries of the Drainage Report prepared for SAO 201 by Holzen Corben & Assoc.
5) Offsite flows are intercepted by San Mateo Blvd. and Wilshire Ave.

Drainage Area "A"
Area "A" drains to an existing Type A inlet on Wilshire Ave. This plan does not propose any changes to the acreage, developed runoff or drainage patterns established in the SAO 201 report.
Soils are type EmB & Etc, Hyd. group B (from BCSS)

Existing and Proposed Conditions:
A = 2.67 Acres
Tc = 8.7; Use 10 min.
Point rainfall = 2.2" from plate 22.2 D-1
CN=70 from plate 22.2 C-2
Runoff volume R = 0.5" from plate 22.2 C-4
qp= 45.4 X 2.67 = 12.12 cfs/in runoff
 $R \times qp = Q_{peak} = 6.06 \text{ say } 6.1 \text{ cfs}$

Drainage Area "B"
Area "B" drains to an existing Type A inlet on Jefferson Ave. This plan proposes changes to the acreage only, as established in the SAO 201 report.
Soils are type EmB, Hyd. group B (from BCSS)

Existing Conditions:
A = 1.55 Acres
Tc = Use 10 min. by inspection
Point rainfall = 2.2" from plate 22.2 D-1
CN=70 from plate 22.2 C-2
Runoff volume R = 0.5" from plate 22.2 C-4
qp= 45.4 X 1.55 = 7.04 cfs/in runoff
 $R \times qp = Q_{peak} = 3.52 \text{ say } 3.5 \text{ cfs}$

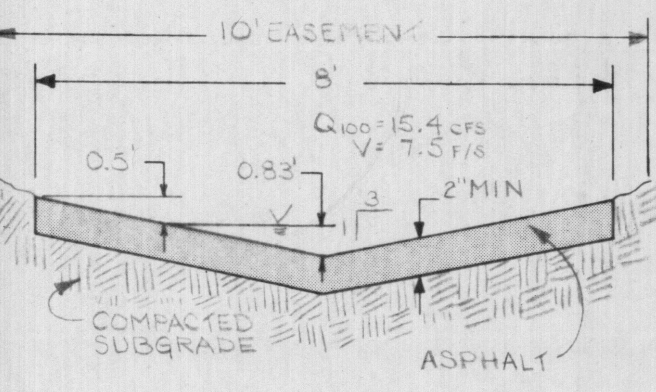
Proposed Conditions:
A = 0.48 Acres
Tc = Use 10 min. by inspection
Point rainfall = 2.2" from plate 22.2 D-1
CN=70 from plate 22.2 C-2
Runoff volume R = 0.5" from plate 22.2 C-4
qp= 45.4 X 0.48 = 2.18 cfs/in runoff
 $R \times qp = Q_{peak} = 1.09 \text{ say } 1.1 \text{ cfs}$

Drainage Area "C"
Areas "C" and "D" propose to divide into halves the existing drainage area as established in the SAO 201 report. Area "C" is to sheet flow to an asphalt swale which will transport the flows to Jefferson Ave whereupon the flow would reach the existing Type "D" inlet currently accepting flow for this area.
Soils are type EmB & Etc, Hyd. group B (from BCSS)

Existing and Proposed Conditions:
A = 6.79 Acres
Tc = Use 10 min. by inspection
Point rainfall = 2.2" from plate 22.2 D-1
CN=70 from plate 22.2 C-2
Runoff volume R = 0.5" from plate 22.2 C-4
qp= 45.4 X 6.79 = 30.83 cfs/in runoff
 $R \times qp = Q_{peak} = 15.42 \text{ say } 15.4 \text{ cfs}$

Drainage Area "D"
Areas "C" and "D" propose to divide into halves the existing drainage area as established in the SAO 201 report. Area "D" flows would reach the existing Type "D" inlet as they do currently.
Soils are type EmB & Etc, Hyd. group B (from BCSS)

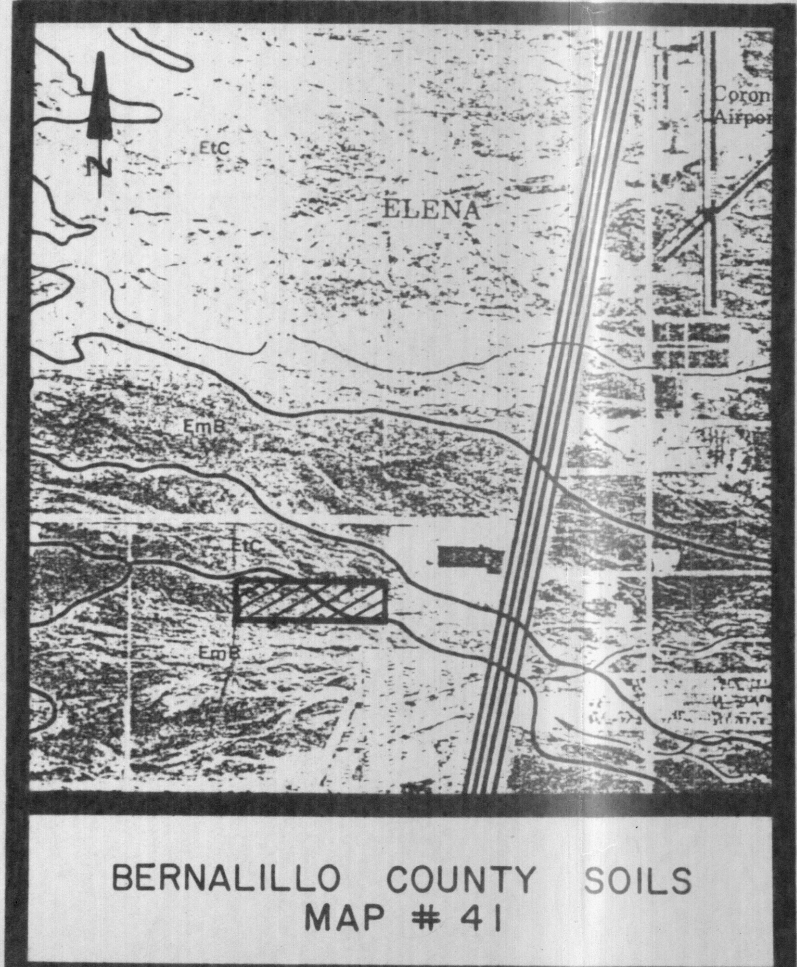
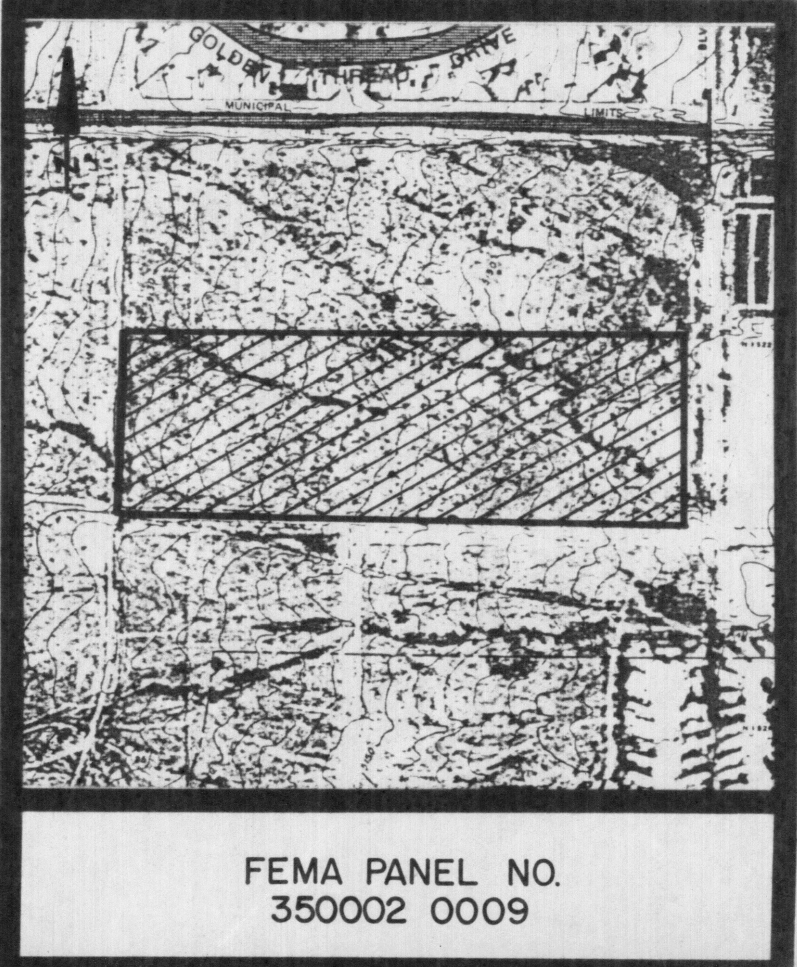
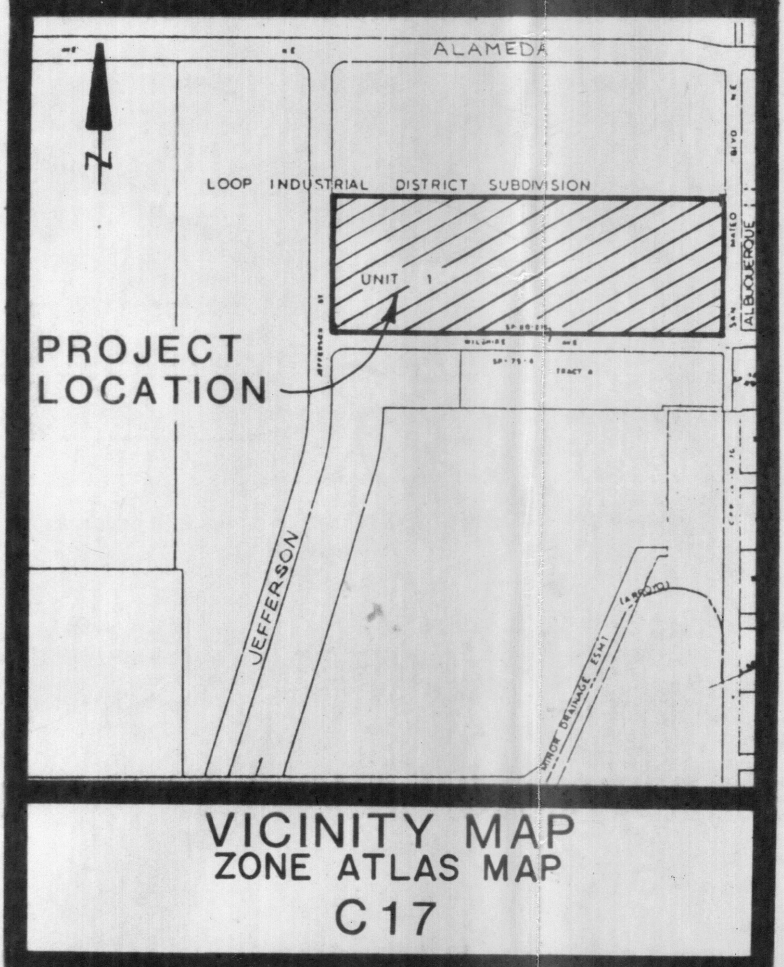
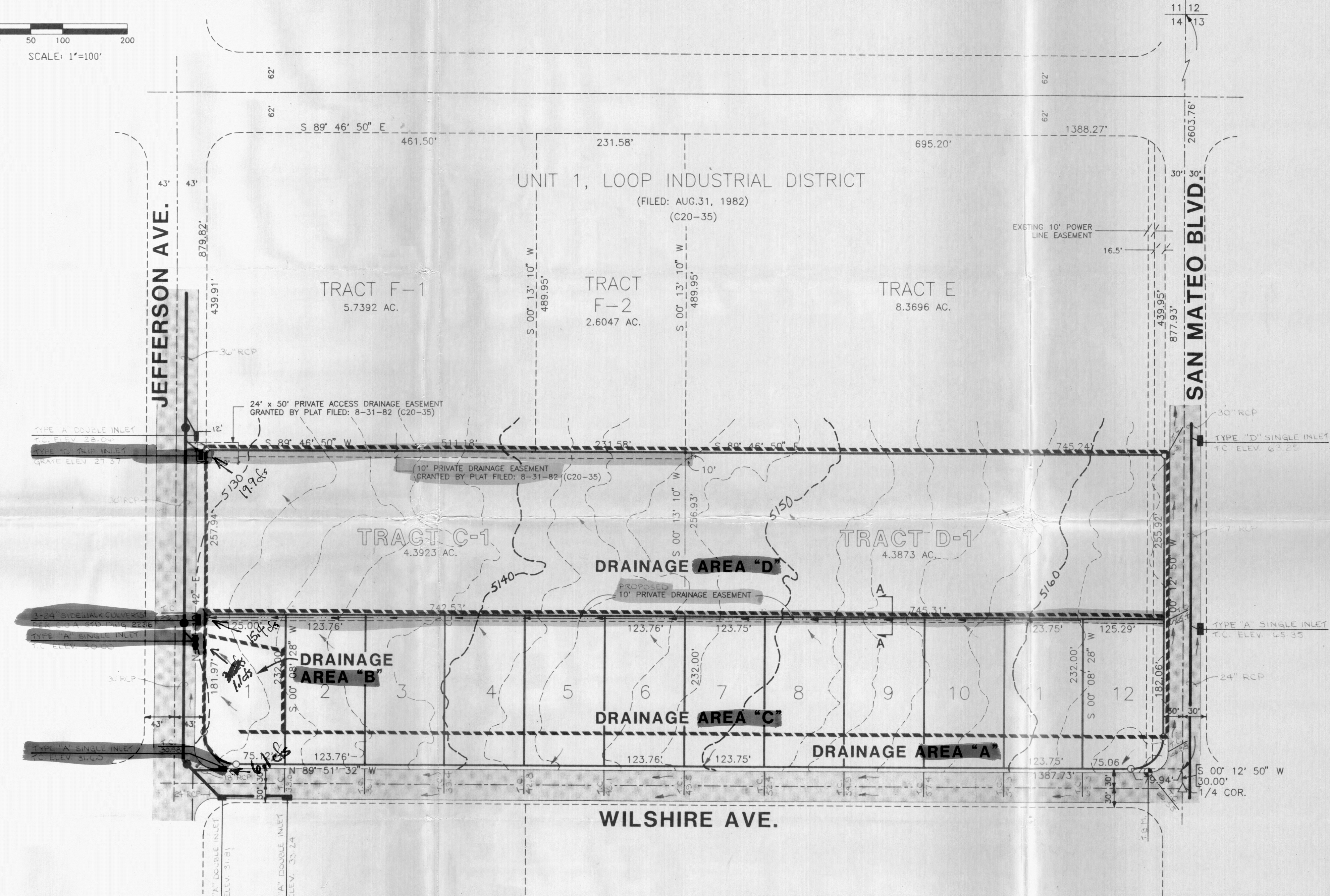
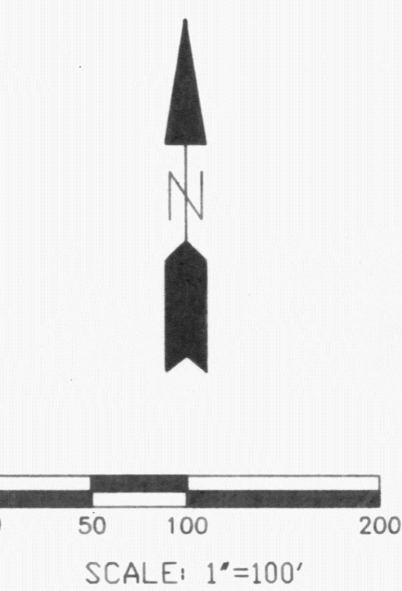
Existing and Proposed Conditions:
A = 8.78 Acres
Tc = Use 10 min. by inspection
Point rainfall = 2.2" from plate 22.2 D-1
CN=70 from plate 22.2 C-2
Runoff volume R = 0.5" from plate 22.2 C-4
qp= 45.4 X 8.78 = 39.86 cfs/in runoff
 $R \times qp = Q_{peak} = 19.93 \text{ say } 19.9 \text{ cfs}$



SECTION A-A
N.T.S.

Total Q = 42.5
SAO #201 storm drain allowance = 37.9
Difference to street = 4.6 cfs \approx OK

- LEGEND
- 02 --- EXISTING CONTOUR
 - — — — — PROPERTY LINE
 - → → → → DIRECTION OF DRAINAGE
 - ===== EXISTING PAVEMENT
 - ===== DRAINAGE BASIN LIMITS
 - ===== ASPHALT DRAINAGE SWALE



Revisions

Greiner Engineering
Greiner Engineering Sciences, Inc.
Denver, Colorado
Abuquerque, N.M.

Design: JJB
Drawn: JPB
Check: JPB
Scale: 1" = 100'

LOOP INDUSTRIAL DISTRICT SUBDIVISION
TRACTS C-1 AND D-1

Date: 5/5/88
Job No.: 0630645
Sheet: 1 of 1