HYDROLOGY

H16/D39
2 PLANS

H16/D39

2 Plans

DRAINAGE CALCULATIONS

LEGAL DESCRIPTION: TRACT "C" OF COLES INDUSTRIAL SUBDIVISION N23, ALBUQ. N.M.

METHOD: THE AMOUNT OF STORM WATER IS CALCULATED BY USING A 100 YEAR SIX-HOUR PRECIPITATION FACTOR OF 2.4 INCHES.

OFFSITE DRAINAGE: ABOVE THE NORTHWEST CORNER OF THE CONTRACT SITE IS A 552' x 80' CONTRIBUTARY AREA (PERVIOUS SURFACE), FLOW IS $\frac{2.4}{12} \times 4400 \times 0.4 = 352$ CU.FT.

OFFSITE FLOW SHALL BE ACCEPTED AND ALLOWED TO FOLLOW HISTORIC DIRECTION OF FLOW.

ON SITE DRAINAGE: CONTRACT SITE IS 8927 SQ.FT.

RUNOFF BEFORE DEVELOPMENT:

$\frac{2.4}{12} \times 8927 \times 0.4 = 714$ CU.FT.

AREA "A" 3962 SQ.FT.

RUNOFF BEFORE DEVELOPMENT: $\frac{2.4}{12} \times 3962 \times 0.4 = 317$ CU.FT.

RUNOFF AFTER DEVELOPMENT: $\frac{2.4}{12} \times 3780$ (INTERIOR) $\times 0.9 = 680$ CU.FT.

$\frac{2.4}{12} \times 180$ (PERVIOUS) $\times 0.4 = 4$ CU.FT.

684 CU.FT.

RUNOFF DIRECTED TO STREET: 684 CU.FT.

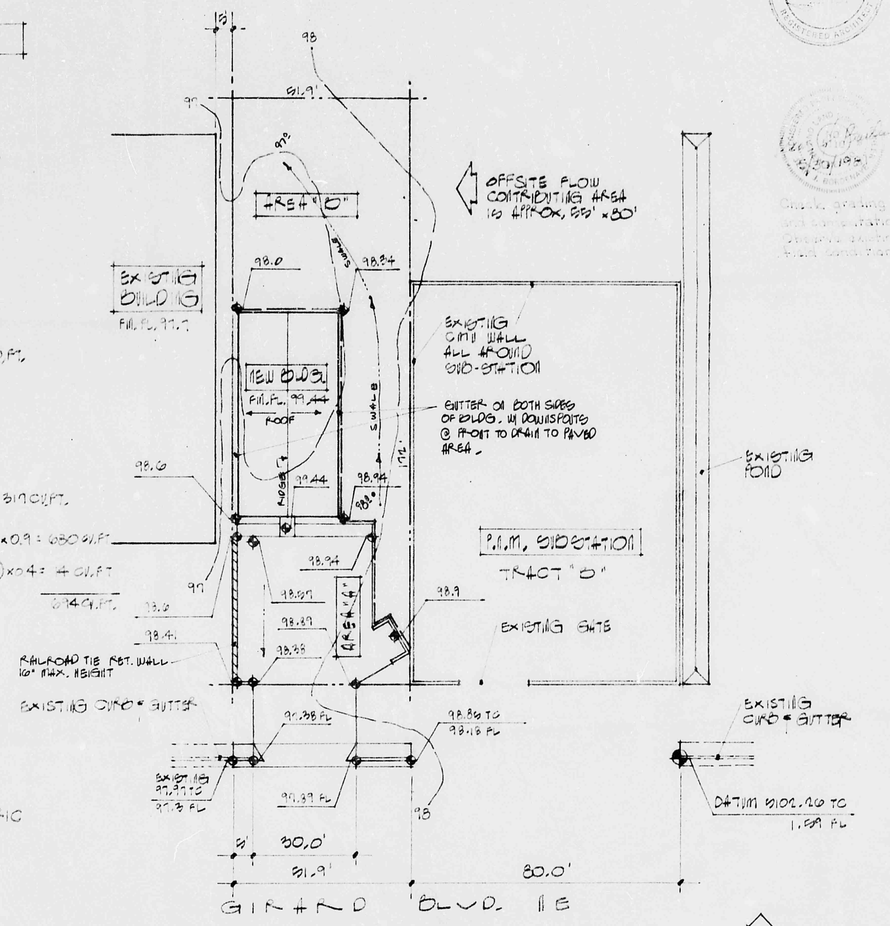
AREA "B" 4965 SQ.FT.

RUNOFF BEFORE DEVELOPMENT:

$\frac{2.4}{12} \times 4965 \times 0.4 = 397$ CU.FT.

RUNOFF AFTER DEVELOPMENT: 397 CU.FT.

RUNOFF FROM AREA "B" SHALL FOLLOW ITS HISTORIC DIRECTION OF FLOW.

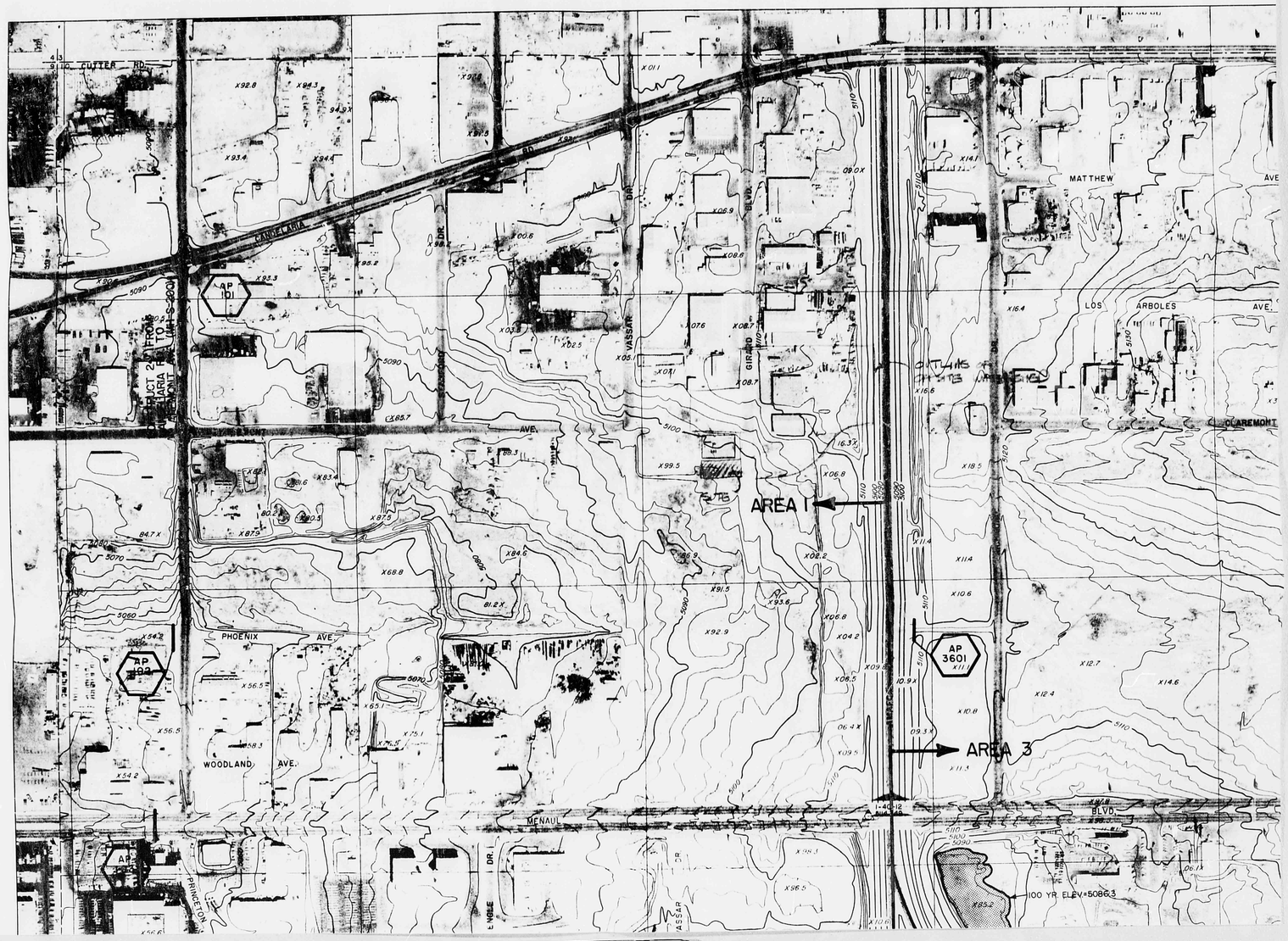


GRADING & DRAINAGE PLAN 1"=20.0'

CITY HYDROLOGY SECTION
Any deletions or modifications to this drainage plan must receive prior approval from City Hydrology Section prior to final inspection.

APPROVED FOR DRAINAGE
6-23-11
DATE
SIGNATURE TITLE
ADVISE DRAINAGE INSPECTOR WHEN GRADING EXECUTED

STATE OF NEW MEXICO REGISTERED ARCHITECT



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