HYDROLOGY

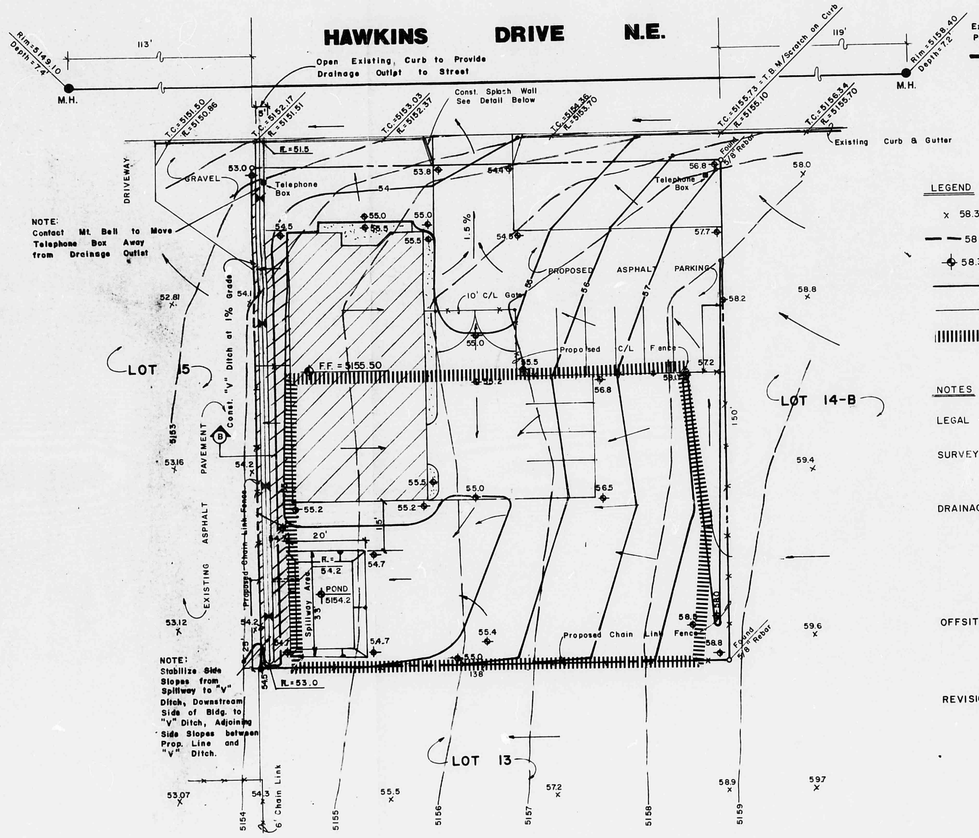
D17/D6
1 PLAN

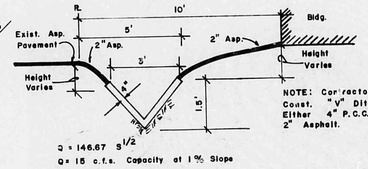
D17/D6

1 PLAN

GRADING / DRAINAGE PLAN

SCALE: 1" = 20'





NOTE: Contractor's Option Const. "V" Ditch with Either 4" P.C.C. or 2" Asphalt.

LEGEND

x 58.3	EXISTING SPOT ELEVATION
— — 58 —	EXISTING CONTOUR
58.3	PROPOSED FINISHED SPOT ELEVATION
	PROPOSED FINISHED CONTOUR
	SURFACE FLOW DIRECTION
	DRAINAGE AREA BOUNDARY

NOTES

LEGAL — LOT 14-A OF ACADEMY PARK-UNIT 4 AND BETA TRACT (SITE AREA = 0.4752 AC.)

SURVEY — TOPO SUPPLIED BY N.MEX REGISTERED SURVEYOR RON FORSTBAUER - 7/16/81
B.M. = 7-D-17, 60 PENNY NAIL IN POLE
ELEVATION = 5166.92

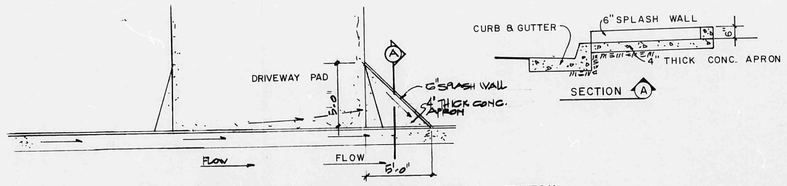
DRAINAGE — SITE DRAINAGE TO COMPLY WITH DRAINAGE REPORT FOR ACADEMY PARK-UNIT 4 AND BETA TRACT, BY HERKENHOFF ENGINEERS. SITE LOCATED WITHIN AREA I OF DRAINAGE REPORT. CRITERIA DICTATES THAT SITE BE TOTALLY DRAINED INTO HAWKINS STREET. PROPOSED STRUCTURE TO HAVE FINISHED FLOOR ELEVATION 1.5' ABOVE TOP OF CURB, RELATIVE TO BUILDING LINE PROJECTED TO HIGH SIDE OF CURB. (SEE REVISION NOTE 9/81)

OFFSITE DRAINAGE - OFFSITE AREA DRAINING TO SITE LIMITED TO LOT 14-B (AREA = 0.467 AC) LAND IS PRESENTLY UNDEVELOPED WITH SHEET FLOW TO PASS THRU THIS SITE FOR DISCHARGE TO HAWKINS STREET.
$Q_{100} = (0.4)(5.4)(0.467) = 1.0$ C.F.S.

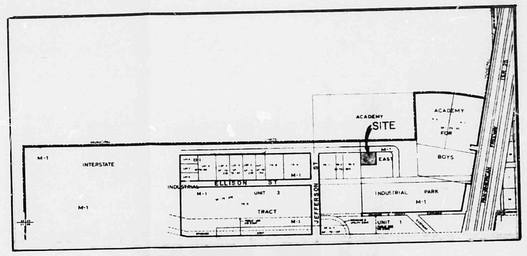
REVISIONS - 9/81 - DRAINAGE CRITERIA FOR ACADEMY PARK CHANGED 8/81 BY CITY ENGINEERING DEPT. DRAINAGE OF SITE TO FOLLOW 1979 INTERIM DRAINAGE GUIDELINES WHEREBY SITE WILL POND INCREASED RUNOFF CREATED BY DEVELOPMENT WITH A Q_5 DISCHARGE
SITE AREA = 0.48 ACRES
VOLUME RUNOFF 100 YR. UNDEVELOPED = (2.2/12)(0.4)(0.48) = 1533 CU. FT.
VOLUME RUNOFF 100 YR. DEVELOPED = (2.2/12)(0.62)(0.48) = 2377 CU. FT.
DIFFERENCE = REQUIRED VOLUME TO BE PONDED = 844 CU. FT.
ONSITE AREA TO POND = 10,200 SQ. FT. (0.23 AC.)
ONSITE VOLUME TO POND = (2.2)(0.50)(10,200) = 1050 CU. FT. > 844 CU. FT. REQUIRED
PEAK VOLUME STORED WHILE SIMULTANIOUSLY OUTFLOWING 0.4 C.F.S. = 260 CU. FT. (INFLOW/OUTFLOW HYDROGRAPH)
TOP DIMENSION OF POND TO HOLD PEAK VOL. OF 260 CU. FT. = 20' E-W BY 33' N-S W/ 5:1 S.S. AT 0.5' DEEP. THE WEST SIDE OF THE POND WILL ACT AS A SPILLWAY WITH ITS LIP AT ELEV. 5154.7
Q_5 OUTLET RATE = (11,050)(0.50)(2.43) = 0.4 C.F.S.
AREA OF PIPE REQ'D = 12.7 SQ. IN.
USE 1-4" DIA. PIPE - OUTFALL INTO PROPOSED "V" DITCH WHICH WILL DRAIN TO STREET.

CHRISTOPHER L. KELLY NEW MEXICO 6653 REGISTERED PROFESSIONAL ENGINEER

Seal for Drainage
REVISED 9/17/81 - For Pond Design
Revised 9/25/81 - For Outlet Revisions



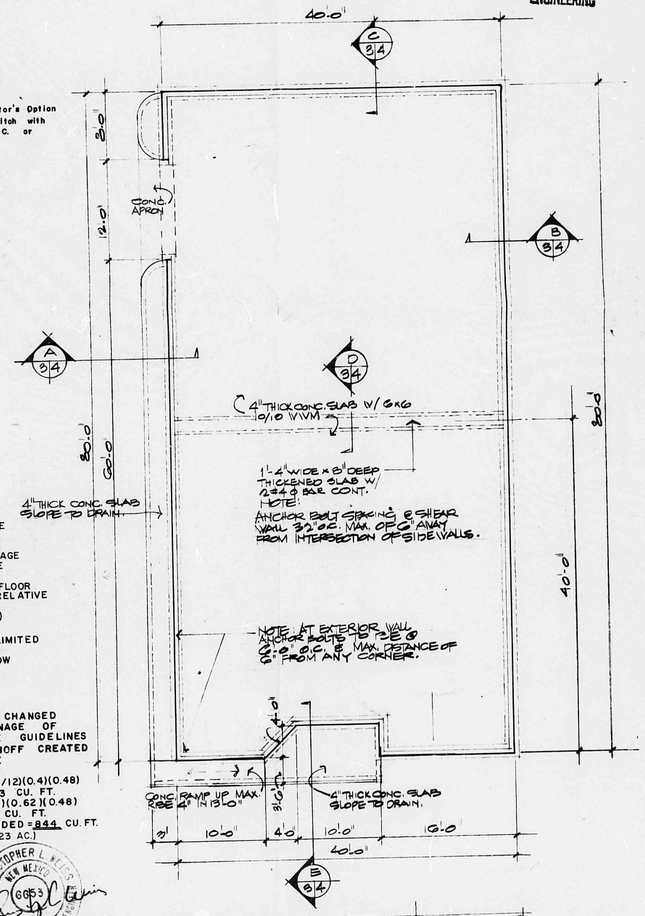
CONCRETE APRON AND SPLASH WALL DETAIL



LOCATION MAP - D-17

APPROVED FOR DRAINAGE
10-7-81
Need
1. Special Permit
2. Drainage Easement

RECEIVED
SEP 28 1981
ENGINEERING



FOUNDATION PLAN | SCALE: 1/8" = 1'-0"

NOTE: MIN. STRENGTH CONC. 3000 P.S.I.

STATE OF NEW MEXICO REGISTERED ARCHITECT

Architect

REGISTERED PROFESSIONAL ENGINEER STATE OF NEW MEXICO NO. 5119 GOLDEN E. LANE, JR.

Engineer

WAREHOUSE/OFFICE COMPLEX FOR: RAMIREZ DRYWALL INC.

DRAINAGE, GRADING & FOUNDATION PLAN

PROJECT 79-23

REVISED 9-3-81 GRADING DRAINAGE PLAN.

the burns group

THE BURNS/PETERS GROUP
Architects & Planners
8000 Pennsylvania Circle NE
Albuquerque, New Mexico 87110 505 265 3645

Date OCT. 28, 1979

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Sheet No.