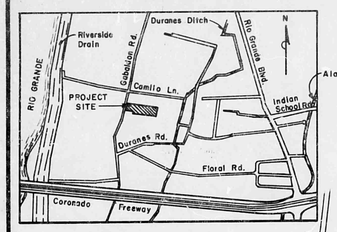
HYDROLOGY

H12/D8
2 PLANS

H12/D8

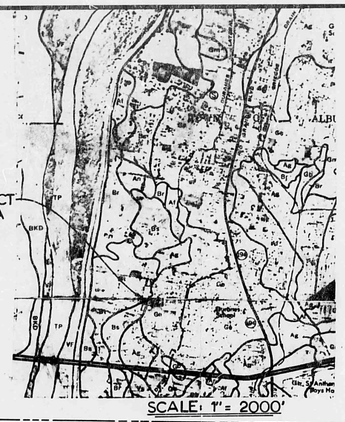
2 Plans



VICINITY MAP

SCALE: 1" = 1500'

SCALE: 1" = 500'



SCALE: 1" = 2000'

CAPACITY SUMMARY

18" Line, Leopoldo Rd, Capacity 11 cfs, Area served 14 ac	
Current load	6.1cfs
Additional load, after improvements	0.1cfs
Load after improvements	6.2cfs
30" Line, Gabaldon Rd, Capacity 33 cfs, Area served 65 ac	
Current load	28.4cfs
Additional load, after improvements	0.4cfs
Load after improvements	28.8
60" Line, Duranes Rd, Capacity 107cfs**, Area served 300ac*	
Current load, Tc 113 min	133.0cfs*
Additional load, Tc 18 min	0.4cfs
Load after improvements	133.4

Lift Station, Capacity 214cfs*

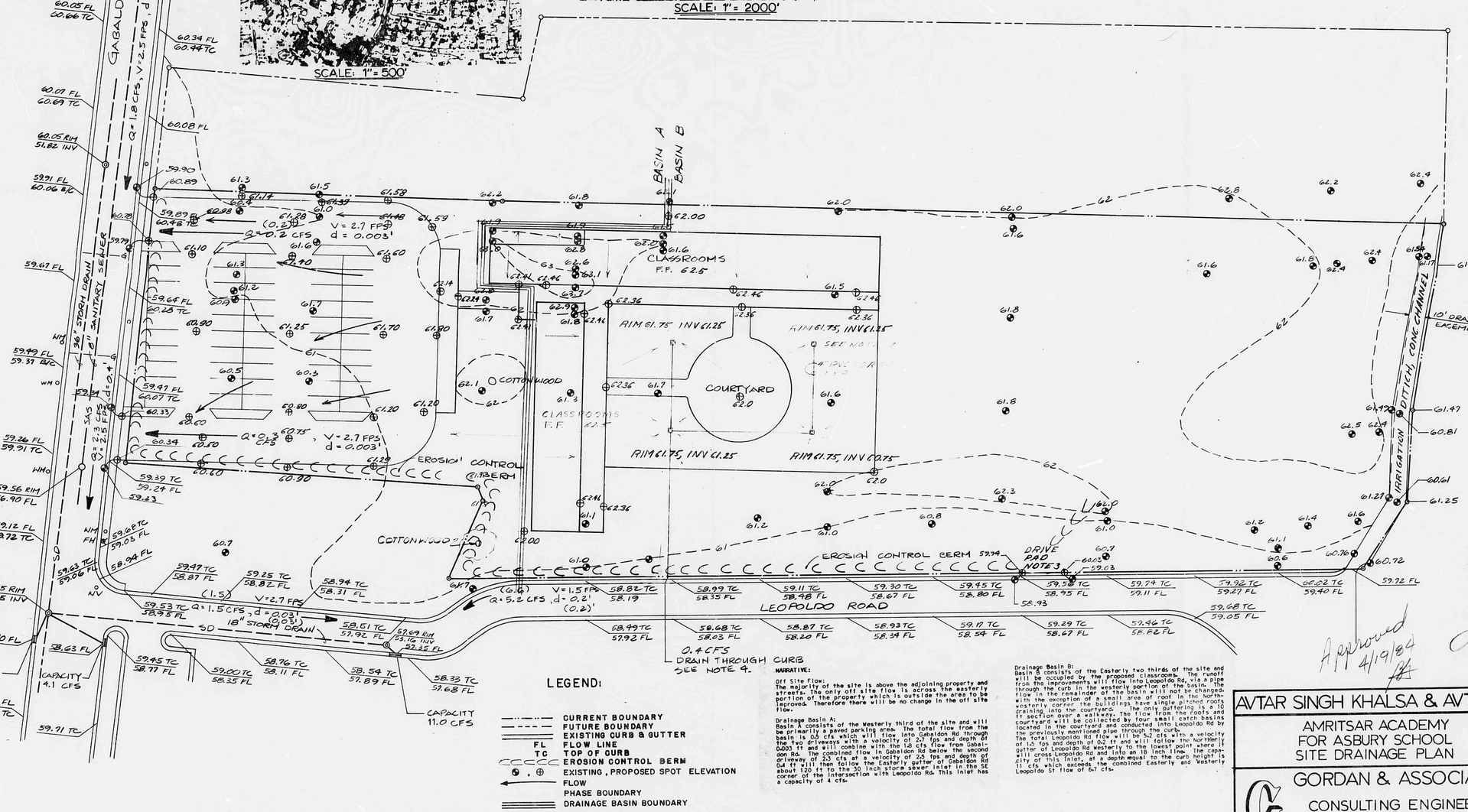
*Albuquerque Master Drainage Study
**Flow calculated not considering any pressure flow.

RUNOFF SUMMARY

	Site Area (sqft)	Soil Class	Improved Area (sqft) Existing	After Completion	Impervious After Completion	Runoff (cfs) Current	After	Increase
PHASE 1 (Current project)								
Leopoldo Rd	70,451	B	0	16,321	23%	0.45	0.56	0.11
Gabaldon Rd	42,500	B	0	29,400	69%	0.27	0.54	0.27
Totals	112,951	B	0	45,721		0.62	1.10	0.39

NOTES:

1. All data based on 100 year flood.
2. Erosion control berm shall be one (1) foot high and shall be maintained until completion of project.
3. See City of Albuquerque Dwg. P-12-2 for drive pad detail.
4. See City of Albuquerque Dwg. K-15 for detail of drain line through curb.
5. Site is not located in a Flood Hazard area. See Hydrology Section Project No. 1-1-12, 2/10/84 Predesign Conference.
6. Elevations + 4000 ft are mean sea level, based on ACS 7-H-13, Elevation 4961.60, located at the intersection of Rio Grande Blvd and Indian School Road.
7. Courtyard inlets: J. R. Smith Co #2280 set in 16" x 16" x 8" conc slab.



LEGEND:

- CURRENT BOUNDARY
- FUTURE BOUNDARY
- EXISTING CURB & GUTTER
- FL FLOW LINE
- TC TOP OF CURB
- EROSION CONTROL BERM
- EXISTING, PROPOSED SPOT ELEVATION
- FLOW
- PHASE BOUNDARY
- DRAINAGE BASIN BOUNDARY

NARRATIVE:

Off Site Flow:
The majority of the site is above the adjoining property and streets. The only off site flow is across the easterly portion of the property which is outside the area to be improved. Therefore there will be no change in the off site flow.

Drainage Basin A:
Basin A consists of the Westerly third of the site and will be primarily a paved parking area. The total flow from the basin is 0.6 cfs which will flow into Gabaldon Rd through the two driveways with a velocity of 2.7 fps and depth of 0.003 ft and will combine with the 1.8 cfs flow from Gabaldon Rd. The combined flow in Gabaldon Rd below the second driveway of 2.3 cfs at a velocity of 2.5 fps and depth of 0.4 ft will then follow the Easterly gutter of Gabaldon Rd about 120 ft to the 30 inch storm sewer inlet in the SE corner of the intersection with Leopoldo Rd. This inlet has a capacity of 4 cfs.

Drainage Basin B:
Basin B consists of the Easterly two thirds of the site and will be occupied by the proposed classrooms. The runoff from the improvements will flow into Leopoldo Rd, via a pipe through the curb in the westerly portion of the basin. The flow in the remainder of the basin will not be changed. With the exception of a small area of roof in the northwesterly corner the buildings have single pitched roofs draining into the courtyard. The only guttering is a 10 ft section over a walkway. The flow from the roofs and courtyard will be collected by four small catch basins located in the courtyard and conducted into Leopoldo Rd by the previously mentioned pipe through the curb.
The total Leopoldo Rd flow will be 5.2 cfs with a velocity of 1.5 fps and depth of 0.2 ft and will follow the Northerly gutter of Leopoldo Rd westerly to the lowest point where it will cross Leopoldo Rd and into an 18 inch line. The capacity of this inlet, at a depth equal to the curb height is 11 cfs which exceeds the combined Easterly and Westerly Leopoldo St flow of 6.7 cfs.

LEGAL DESCRIPTION: TR. 173-174 & 186, MAP 35 OF MRGCD

ZONE MAP: H12

Approved 4/19/84

REGISTERED PROFESSIONAL ENGINEER NO. 5072 STATE OF NEW MEXICO R. GORDAN, JR.

AVTAR SINGH KHALSA & AVTAR KAUR KHALSA	
AMRITSAR ACADEMY FOR ASBURY SCHOOL SITE DRAINAGE PLAN	JOB NO.
	DRAWN C.K.
	CHECKED R.G.
	12 APRIL 1984
GORDAN & ASSOCIATES CONSULTING ENGINEERS SANTA FE, NEW MEXICO	SHEET NO. 1 OF 1

RECEIVED APR 1 1984 HYDROLOGY SECTION

84 86927

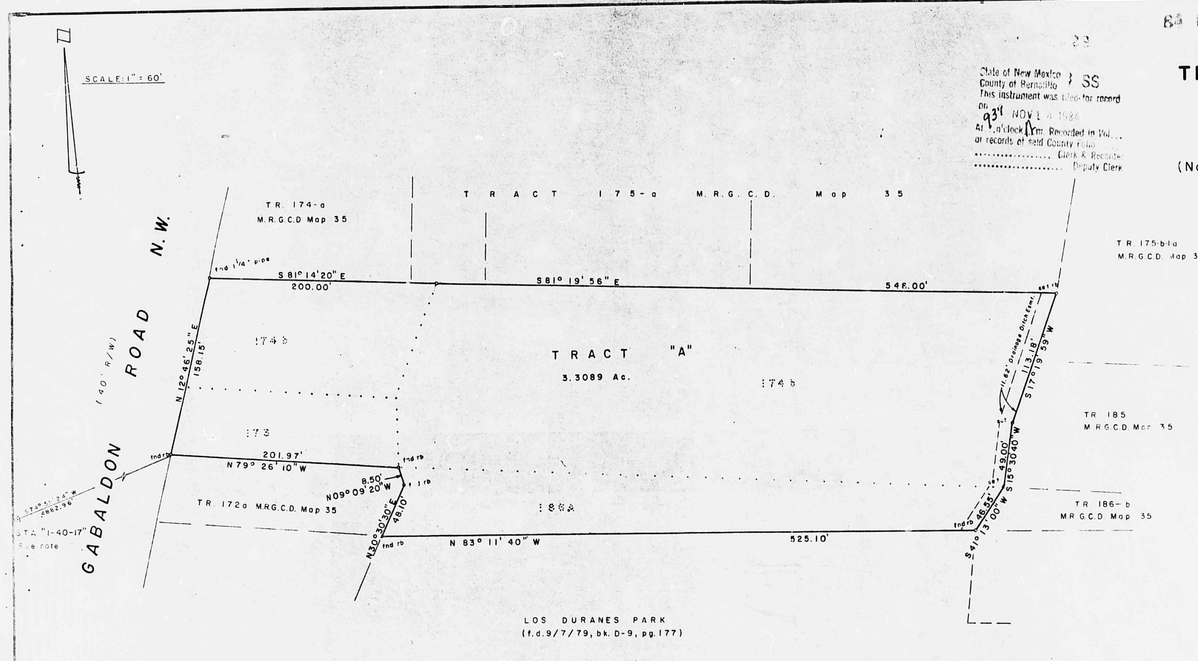
REPLAT OF
TRACTS 174-b, 173 & 186-A
M.R.G.C.D. MAP No. 35

ALBUQUERQUE, NEW MEXICO

OCT., 1984

(Now being Tract "A", Lands of Amritsar Academy)

State of New Mexico
County of Bernalillo } SS
This instrument was filed for record on
NOV 1 1984
At 1 o'clock P.M. Recorded in Vol. ...
of records of said County and State.
..... Clerk & Recorder
..... Deputy Clerk



NOTE:

Found NSHC Brass Tablet "STA I-40-17"
New Mexico State Plane Coordinates
X = 365,731.92
Y = 1,494,652.14
Ground to Grid Factor 0.99967669
A = -0° 15' 30"
Elevation 5101.4 feet

1. ALL BEARINGS ARE GRID, ALL DISTANCES ARE GROUND.
2. Corner(s) set are 1/2" rebar w/cap stamped "L.S. 6446".

LEGAL DESCRIPTION

A tract of land comprising Tract 186-A, Tract 173 and Tract 174-b of M.R.G.C.D. Property Map No. 35, and [illegible] Section 13, T.10N., R.2E., N.M.P.M., Bernalillo County, New Mexico, and more particularly described as follows:

BEGINNING at the Northwest corner of said tract, being a angle point on the North line of the [illegible] tract, as the same is shown and designated upon the plat thereof, filed [illegible] in the County Clerk of Bernalillo County, on the [illegible] of September, 1979, whence the Northeast corner of said [illegible] bears S. 10° 21' 00" W., 85.26 feet and S. 38° 50' 50" E., 245.41 feet. Thence from the above said point of beginning, N. 83° 11' 40" W., along the North line of said [illegible] a distance of 525.10 feet to a point; thence N. 33° 07' 30" E., a distance of 49.10 feet; thence N. 09° 09' 20" W., a distance of 8.50 feet; thence N. 79° 26' 10" W., a distance of 201.97 feet to a point on the Easterly right-of-way line of GABALDON ROAD N.W., for the Northwest corner; thence N. 12° 46' 25" E., along said right-of-way line a distance of 158.15 feet to the Northeast corner; thence S. 81° 14' 20" E., a distance of 200.00 feet; thence S. 81° 19' 56" E., a distance of 546.00 feet; thence S. 77° 19' 56" W., a distance of 113.15 feet; thence S. 10° 13' 00" W., a distance of 49.00 feet; thence S. 15° 30' 40" W., a distance of 46.50 feet, to the point and place of beginning and containing an area of 3.3089 acres, more or less.

FREE CONSENT

The [illegible] is made with the free consent of the undersigned owner(s). The undersigned have represented themselves to have title and acknowledge that the [illegible] is within the covenants and restrictions on this property.

EFFIE GREELEY

ACKNOWLEDGEMENT

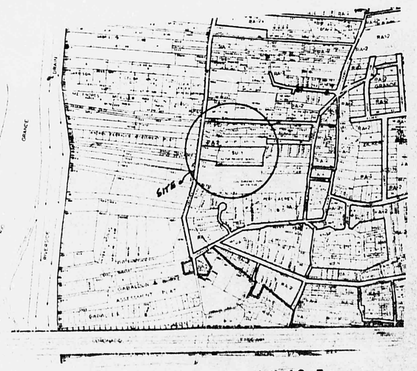
STATE OF NEW MEXICO)
) SS.
COUNTY OF [illegible])

My Commission Expires: [illegible]

The foregoing instrument was acknowledged before me this 17th day of October, 1984. By: Effie Greeley

My Commission Expires: [illegible]

Notary Public



ACKNOWLEDGEMENT

STATE OF NEW MEXICO)
) SS.
COUNTY OF BERNALILLO)

OFFICIAL SEAL
DANIEL M. GRANEY
NOTARY PUBLIC - STATE OF NEW MEXICO
Notary Bond filed with Secretary of State
My Commission Expires 8-8-87

The foregoing instrument was acknowledged before me this 17th day of October, 1984.

BY: Jerry Nickels

My Commission Expires: 8-8-87

Daniel M. Graney
Notary Public

SURVEYOR'S CERTIFICATE

I, Jerry Nickels, licensed under the laws of the State of New Mexico, do hereby certify that this plat was prepared by me or under my direction from notes of an actual field survey, shows all easement of record and meets the requirements for monumentation and surveys of the Albuquerque Subdivision Ordinance, and is true and correct to the best of my knowledge and belief.

10/12/84

Jerry Nickels, N.M.L.S. No. 6446 Date

SOUTHWEST SURVEYING CO., INC., 333 EMAS N.E., ALBUQUERQUE, NEW MEXICO 87102
(505) 247-4444

CITY/COUNTY APPROVALS:

Property Management — Date 11-09-84
City Surveyor — Date 11-09-84
City Water Resources — N/A
City Engineer — N/A
A.M.A.F.C.A. — N/A
Traffic Engineer — N/A
Parks and Recreation — N/A
City Planning Director — S.D.P. No. — Date 11/14/84

ALBUQUERQUE ECON. DEVELOP. ADMIN.
JUL 30 1985
U.B.C. PLAN CHECK SECTION

H-12-Z