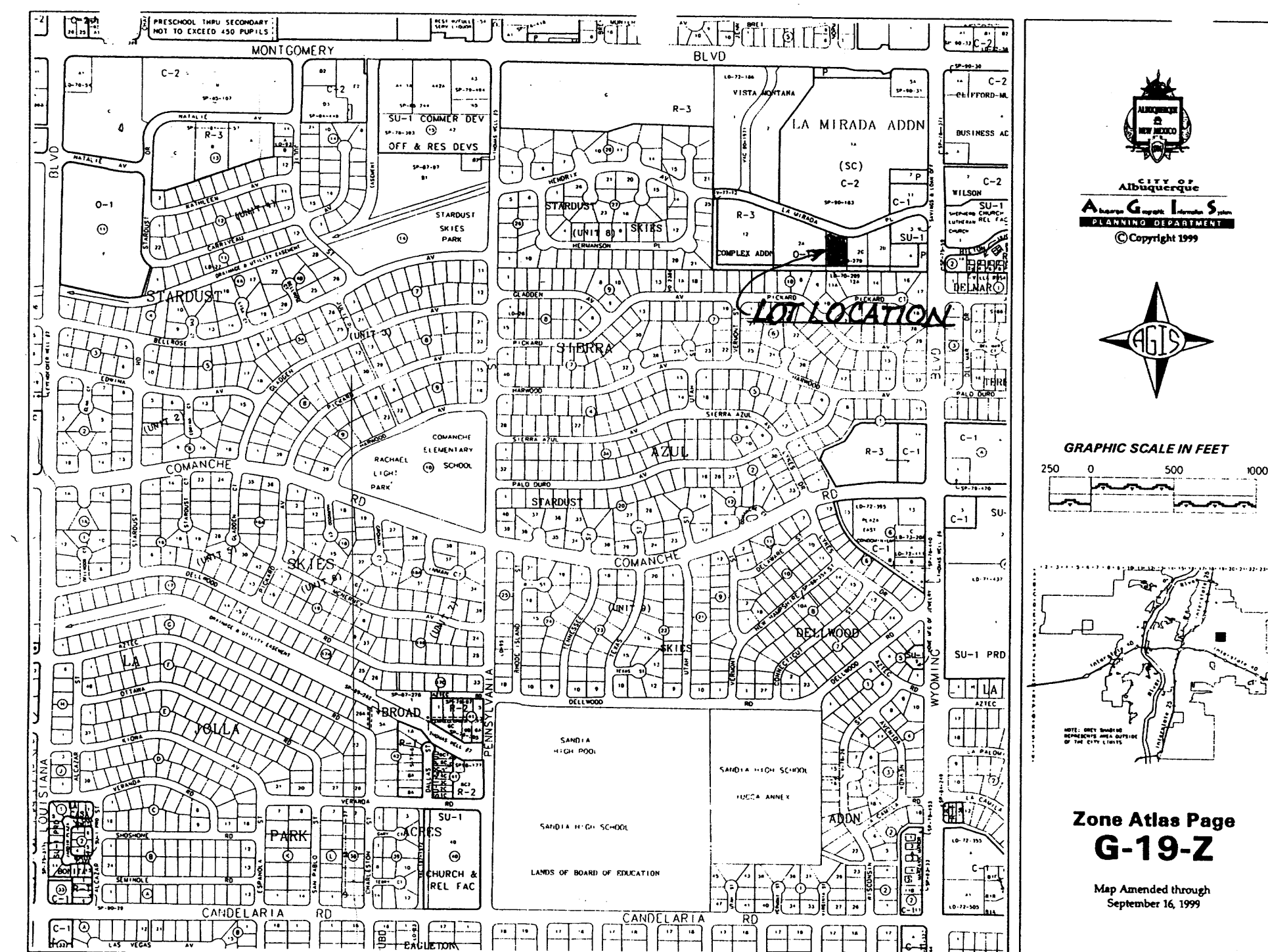
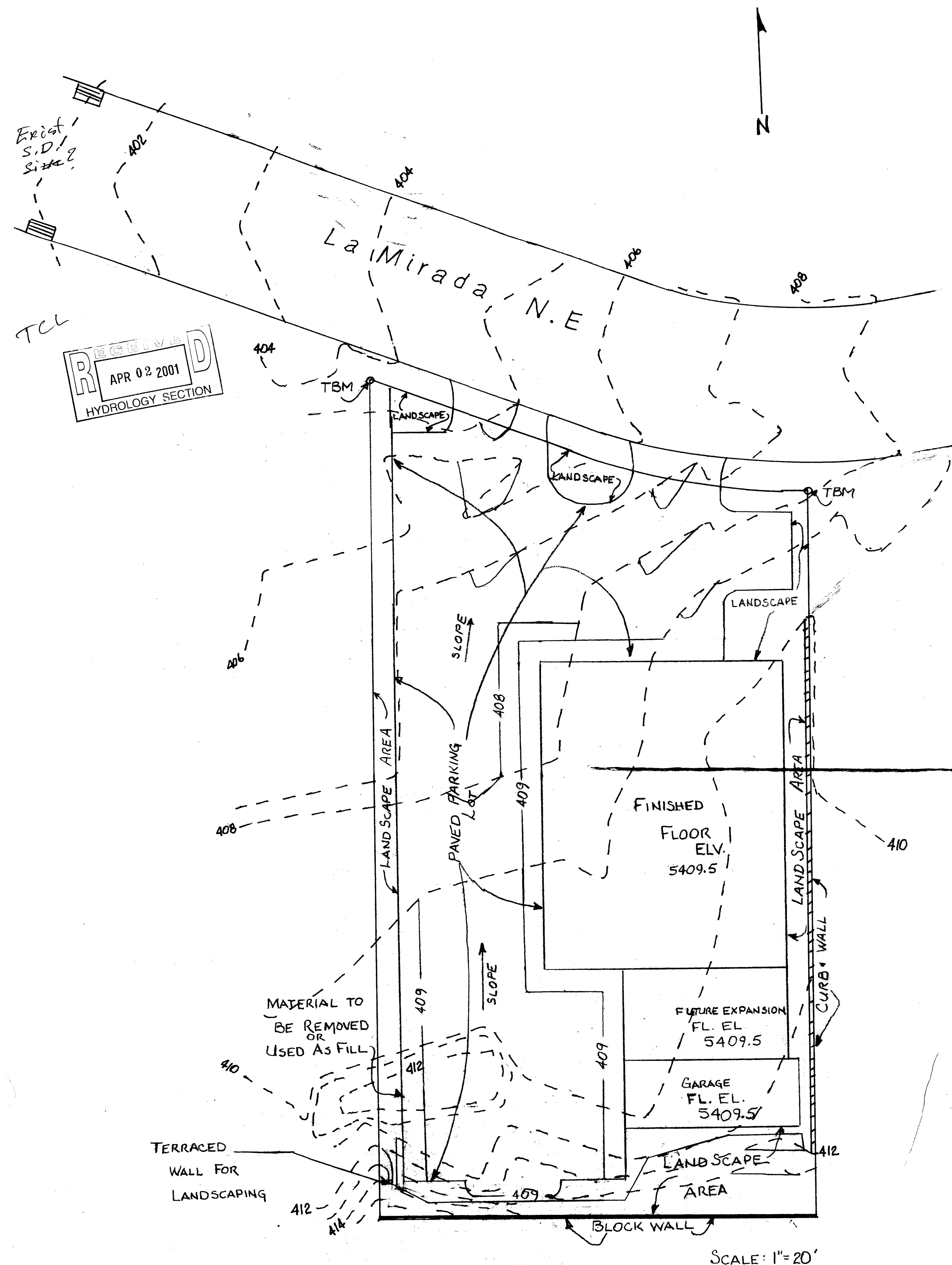




NOTES

1. OFFICE BUILDING DOES NOT LIE WITHIN THE FEMA FLOOD BOUNDARY.
2. ADD 5000.0 TO CONTOUR ELEVATIONS.
3. CONTOUR INTERVAL EQUALS 1.0 FOOT.
4. POSITIVE DRAINAGE FROM FOUNDATION.
5. DRAWING UTILIZED FOR THE LAYOUT OF PROPOSED RESIDENCE AS SHOWN.
6. DRAINAGE CALCULATIONS PREPARED IN ACCORDANCE WITH SECTIONS 22.2, HYDROLOGY, DEVELOPMENT PROCESS MANUAL, BERNALLILLO COUNTY..
7. APPROXIMATE LOT SIZE IS 207 FT. ALONG THE EAST PROPERTY LINE, 234 FT. ALONG THE WEST PROPERTY LINE AND 125 FT. ALONG THE SOUTH PROPERTY LINE.
8. OFFICE BUILDING SET BACK IS 65 FT. FROM LA MIRADA NE AND 10 FT. FROM THE EAST PROPERTY LINE.
9. NO WALLS WILL CONSTRUCTED ALONG THE PROPERTY BOUNDARY TO IMPACT FLOWS.
10. ONLY AREAS NEEDED FOR CONSTRUCTION WILL BE CLEARED AND GRUBBED. OTHER AREAS WILL REMAIN UNDISTURBED.
11. DISTURBED AREAS WILL BE REVEGETATED/LANDSCAPED IN ACCORDANCE WITH CITY OF ALBUQUERQUE ZONING REQUIREMENTS.

ENGINEER'S STATEMENT

I, hereby, state that I have personally inspected the land represented by this plan and I certify that the contours shown on this plan substantially reflect the conditions of the site and that no grading, excavation, or filling has occurred since this plan was prepared.

(Bernard R. Freeman, NMPE 8795)

BENCHMARK

THE BENCHMARK USED FOR THIS SURVEY IS NGVD 1929 FROM ACS MONUMENT
"13-F19".
ELEVATION = 5431.59

TEMPORARY BENCHMARKS

#4 REBAR AT NE CORNER = 5407.83
#4 REBAR AT NW CORNER = 5404.32

DRAINAGE CALCULATIONS - ZONE 3

Undeveloped Conditions

Area = 0.6286 Ac. = 27,382 FT²

$$P_{100.6} = 2.90''$$

Weighted "E" = 0.66"

$$Q_{100} = 1.87(.6286) = 1.2 \text{ cfs}$$
$$Q_{10} = .58(.6286) = 0.4 \text{ cfs}$$
$$V_{10} = .19(.6286)43560/12 = 434 \text{ FT}^3$$

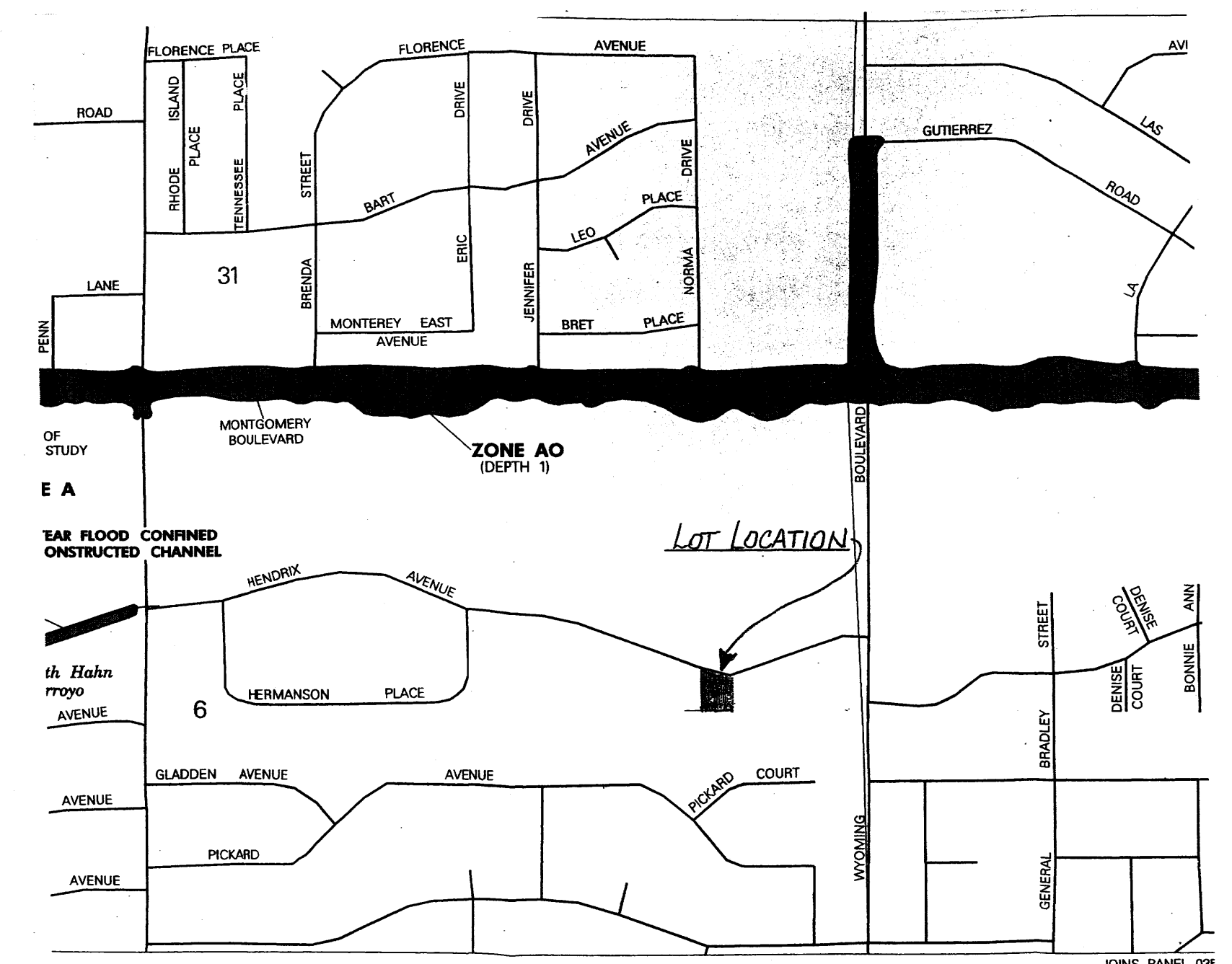
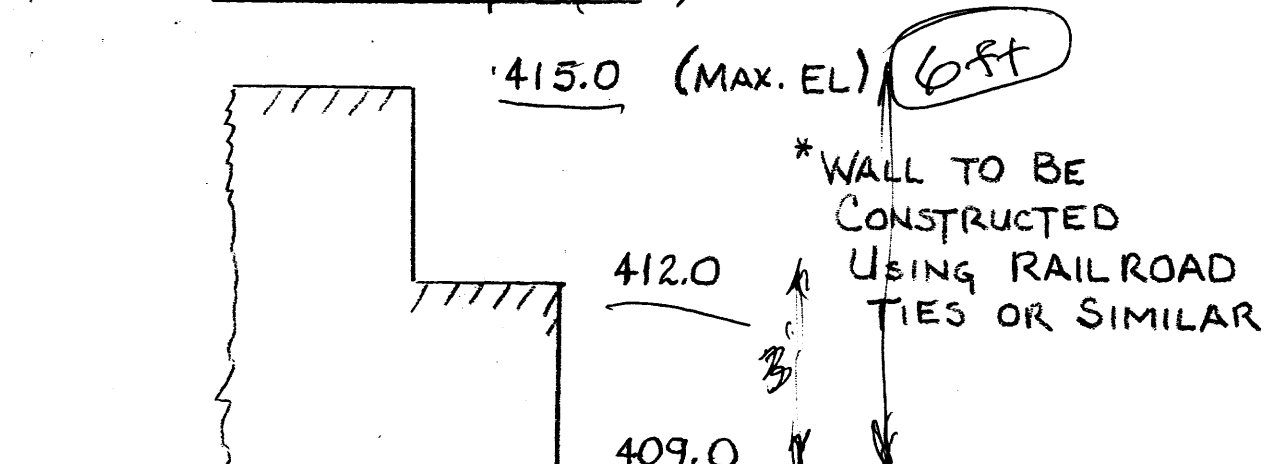
Developed Conditions

$$A_T = .6286 \text{ Ac.} = 27,382 \text{ FT}^2$$
$$A_A = 0 \text{ Ac.} = 0 \text{ FT}^2$$
$$A_c = 0.11 A_c = 4625 \text{ FT}^2$$
$$A_D = 0.5086 \text{ Ac.} = 22407 \text{ FT}^2$$
$$\text{Weighted "E"}_{100} = (0.66(0) + 0.92(350) + 1.29(4625) + 2.36(22407))/27382 = 2.16''$$
$$\text{Weighted "E"}_{10} = (0.19(0) + 0.36(350) + 0.62(4625) + 1.5(22407))/27382 = \underline{1.34''}$$
$$Q_{100} = 0(1.87) + .01(2.6) + .11(3.45) + .5086(5.02) = \underline{2.9 \text{ cfs}}$$
$$V_{100} = 2.16(.6286)43560/12 = \underline{4929 \text{ FT}^3}$$
$$Q_{10} = 0(.58) + .01(1.19) + .11(2.0) + 5086(3.39) = \underline{1.9 \text{ cfs}}$$
$$V_{10} = 1.34(.6286)43560/12 = \underline{3058 \text{ FT}^3}$$

LEGEND

- 409 --- EXISTING CONTOUR
 _____ 409 _____ PROPOSED CONTOUR
 [Three horizontal lines] STORM INLETS
 [Dashed line] EXISTING CURB
 [Thick solid line] EXISTING BLOCK WALL

TYPICAL LANDSCAPE
WALL SECTION (NTS)



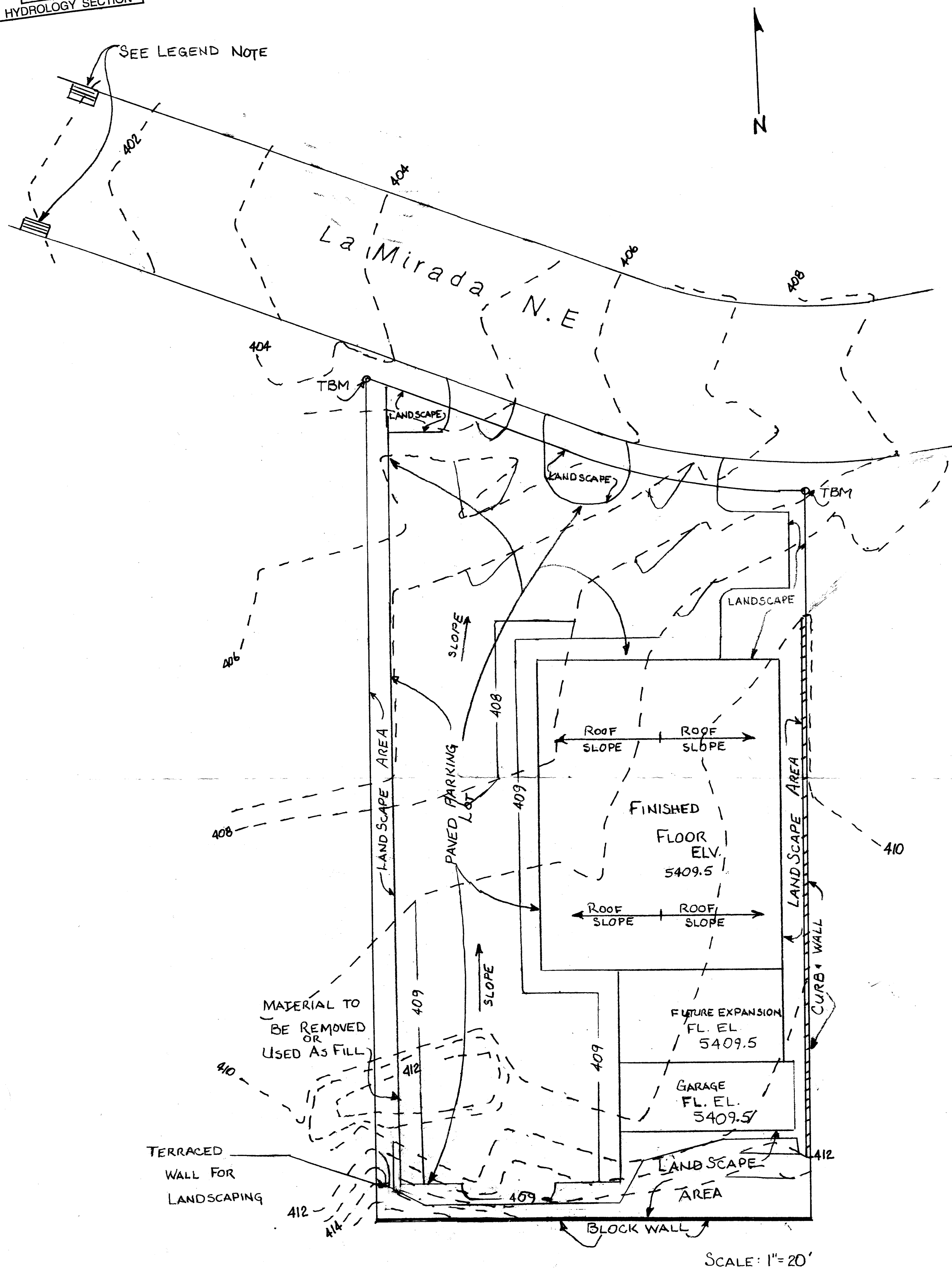
RECEIVED
APR 02 2001
HYDROLOGY SECTION

FIRM MAP
SCALE: 1"=500'

MAP # 35001C0143D

GARY GALBODON OFFICE

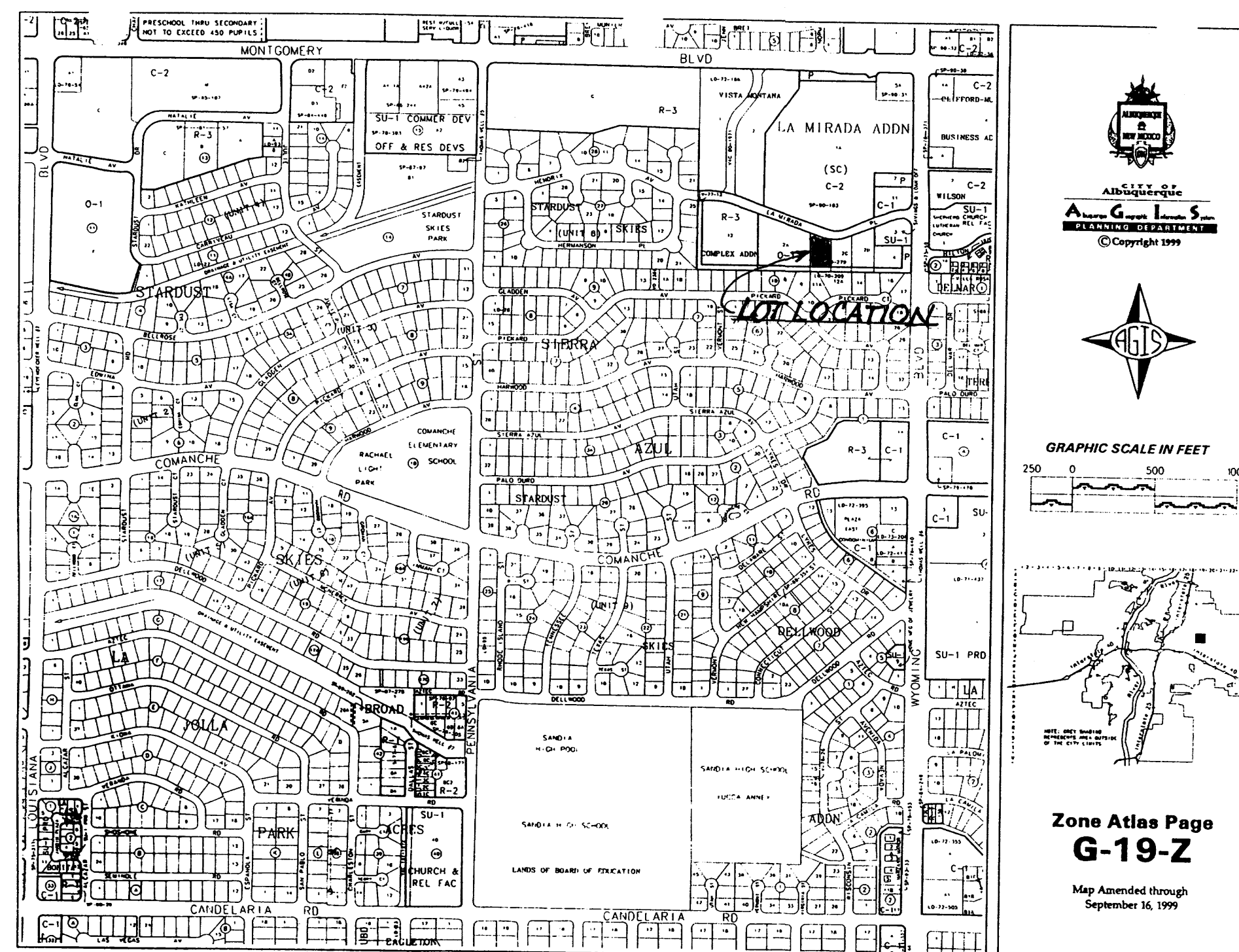
GRAVING & DRAINAGE PLAN	
SCALE:	APPROVED BY:
DATE: 4/2/01	DRAWN BY
	REVISED
PREPARED BY BERNARD FREEMAN	
	DRAWING NUMBER



LEGEND

- 409 --- EXISTING CONTOUR
- 409 --- PROPOSED CONTOUR
- == STORM INLETS w/ 42" STORM CULVERTS
- == EXISTING CURB
- == EXISTING BLOCK WALL

SCALE: 1" = 20'



VICINITY MAP

DRAINAGE CALCULATIONS- ZONE 3

Undeveloped Conditions

Area = 0.6286 Ac. = 27,382 FT²
P₁₀₀ = 2.90"
Weighted "E" = 0.66"

Q₁₀₀ = 1.87(6286) = 1.2 cfs
V₁₀₀ = 0.66(6286)/43560 = 1586 FT³
Q₁₀ = .58(6286) = 0.4 cfs
V₁₀ = .19(6286)/43560/12 = 434 FT³

Developed Conditions

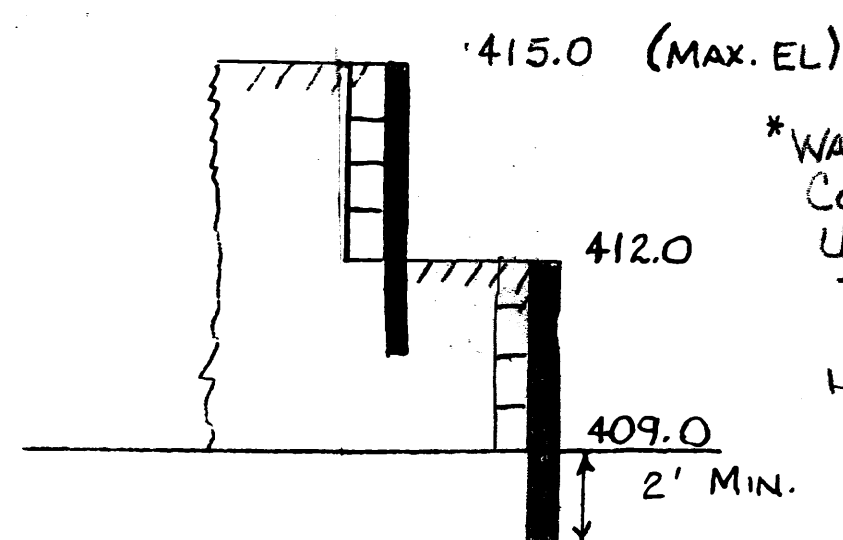
A_T = .6286 Ac. = 27,382 FT²
A₁ = 0 Ac. = 0 FT²
A₂ = 0.01 Ac. = 350 FT²
A₃ = 0.11 Ac. = 4625 FT²
A₄ = 0.5086 Ac. = 22407 FT²

Weighted "E"₁₀₀ = (0.66(0) + 0.01(350) + 1.29(4625) + 2.36(22407))/27382 = 2.16"
Weighted "E"₁₀ = (0.19(0) + 0.34(350) + 0.62(4625) + 1.5(22407))/27382 = 1.34"

Q₁₀₀ = 0(1.87) + .01(2.6) + .11(3.45) + .5086(5.02) = 2.9 cfs
V₁₀₀ = 2.16(6286)/43560/12 = 422 FT³

Q₁₀ = 0(.58) + .01(1.19) + .11(2.0) + .5086(3.39) = 1.9 cfs
V₁₀ = 1.34(6286)/43560/12 = 3058 FT³

TYPICAL LANDSCAPE WALL SECTION



* WALL TO BE CONSTRUCTED USING RAILROAD TIES OR SIMILAR

HORIZONTAL RAILS SECURELY FASTENED BY METAL SPIKES.

VERTICAL RAILS TO BE 90° TO HORIZONTAL AND ANCHORED MIN. 2' INTO GROUND

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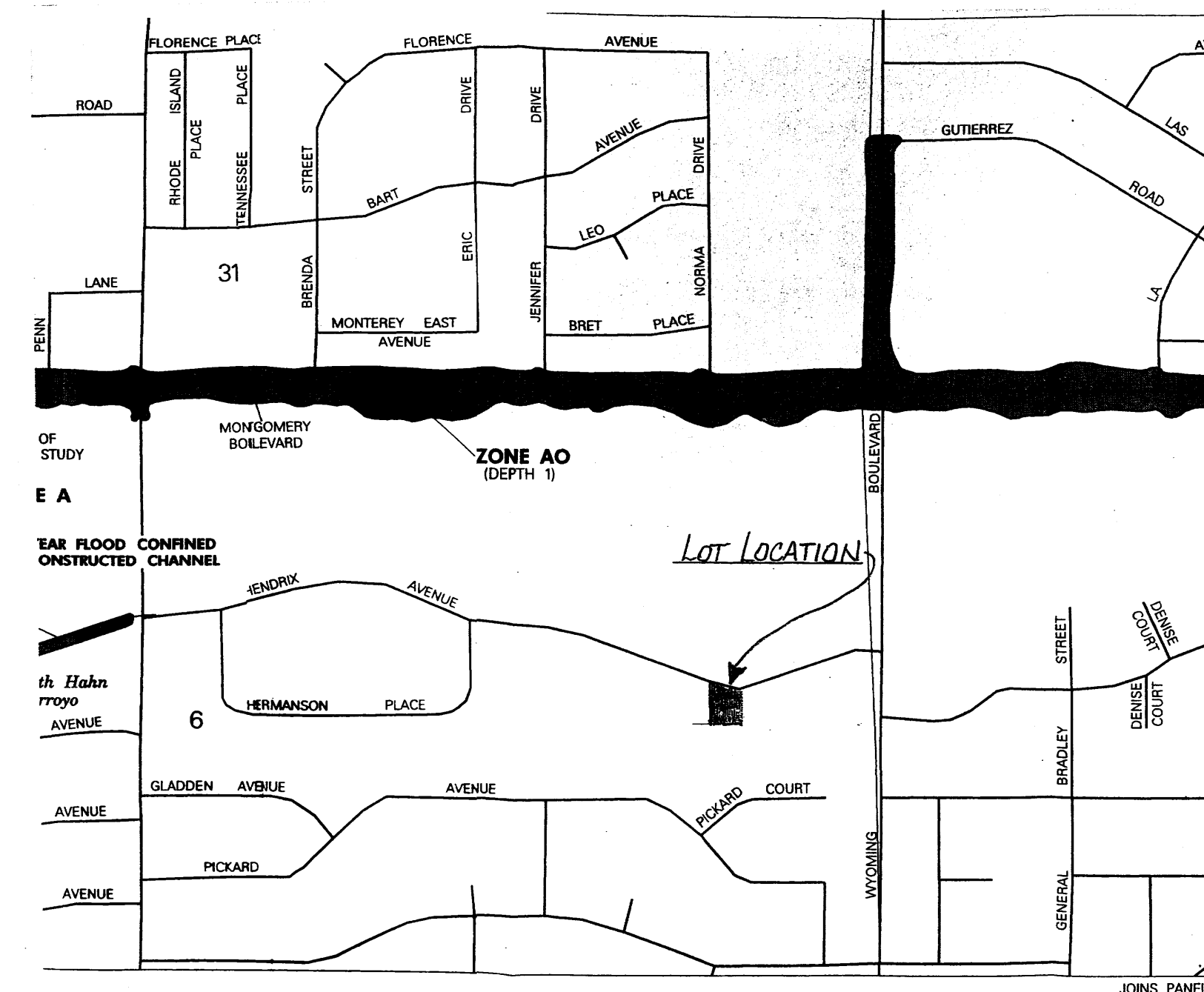
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#4 REBAR AT NW CORNER = 5404.32



FIRM MAP SCALE: 1" = 500'

MAP # 35001CQ143 D

GARY GALBODON OFFICE

SCALE:	APPROVED BY:	DRAWN BY:
DATE: 4/2/01		REVIEWED:
PREPARED BY: BERNARD FREEMAN		
DRAWING NUMBER:		