HYDROLOGY D17/D44 TAYLOR MARINE

D17/D44

TAYLOR MARINE

1 PLAN

PROJECT DATA:

LEGAL DESCRIPTION

Zone Atlas Page No. D17-Z

STRUCTURAL DESIGN CRITERIA

Use Live Loads:
Fire Live Loads:
- Mechanical
- Basement
- First
- Mezzanine
- Second
- Third

Wind Load: 25 P.S.F.
Velocity Zone:
Fire Zone:
Type of Construction:
Occupancy:
Seismic Values:
- Category
- Importance Factor

Soil Bearing Capacity: 2000 P.S.F.

CONCRETE STRENGTHS, 28 DAY TEST

Block Fill
Floor Slabs, Bond Beams: 3000 P.S.I.
Footings, Walls: 3000 P.S.I.
Exterior Walks, Slabs, Etc.: 3000 P.S.I. AIR ENTRAINED

FLOOR AREAS

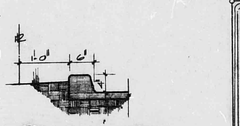
	SQ. FT.	ALLOWABLE
Basement		Base 9000
First	5760	Fire Zone 3
Mezzanine		Multistory
Second		Separation 60
Third		Sprinklers 3 Level
Total Area	5760	Separation Sides 11,520
Occupant Load	5	Total Allowable 34,560
Parking Required	6	
Parking Provided	6	

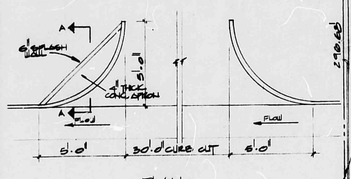
REFUSE CONTAINERS

PROVIDE TO PROVIDE REFUSE CONTAINERS PER REQUIREMENTS OF CITY OF ALBUQUERQUE.

GENERAL NOTES

1. ALL GRADING CONTRACTORS TO BE RESPONSIBLE FOR COMPLIANCE WITH REQUIREMENTS OF CITY OF ALBUQUERQUE DEPT. OF ENVIRONMENTAL HEALTH AIR MANAGEMENT DIVISION REGARDING CONTROL OF DUST FROM EXCAVATION AND GRADING OPERATIONS. CONTRACTOR SHALL OBTAIN TYPE II GRADING PERMIT.
2. AFFECTED CONTRACTORS TO VERIFY EXACT LOCATION OF ALL UTILITIES.



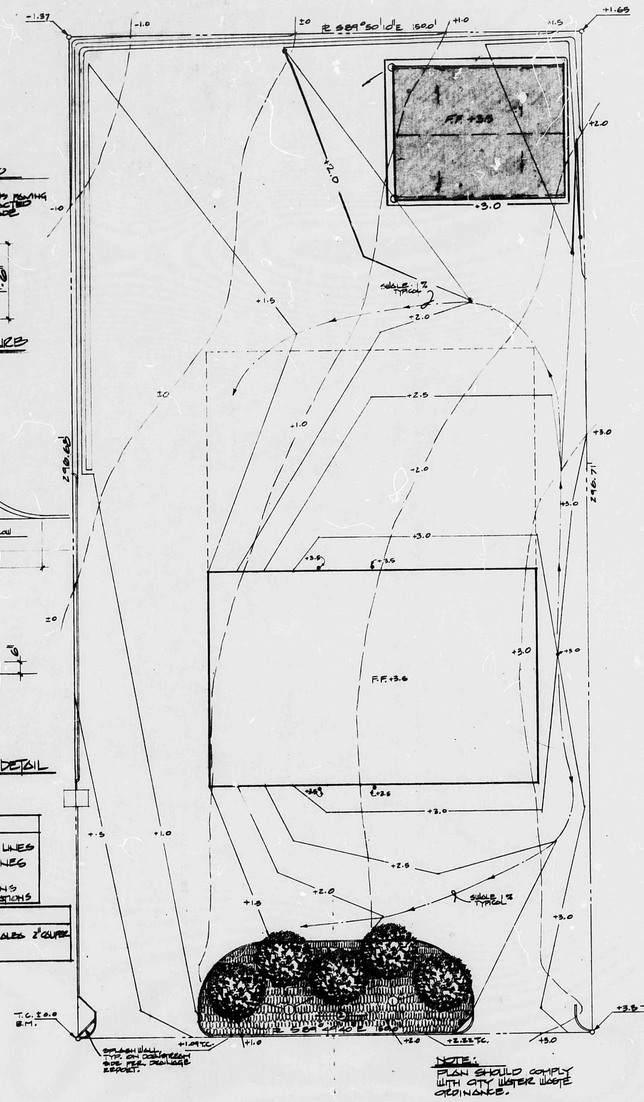


SYMBOL LEGEND

- EXISTING GRADE LINES
- NEW GRADE LINES
- SWALE
- EXIST. ELEVATIONS
- NEW FINISH ELEVATIONS

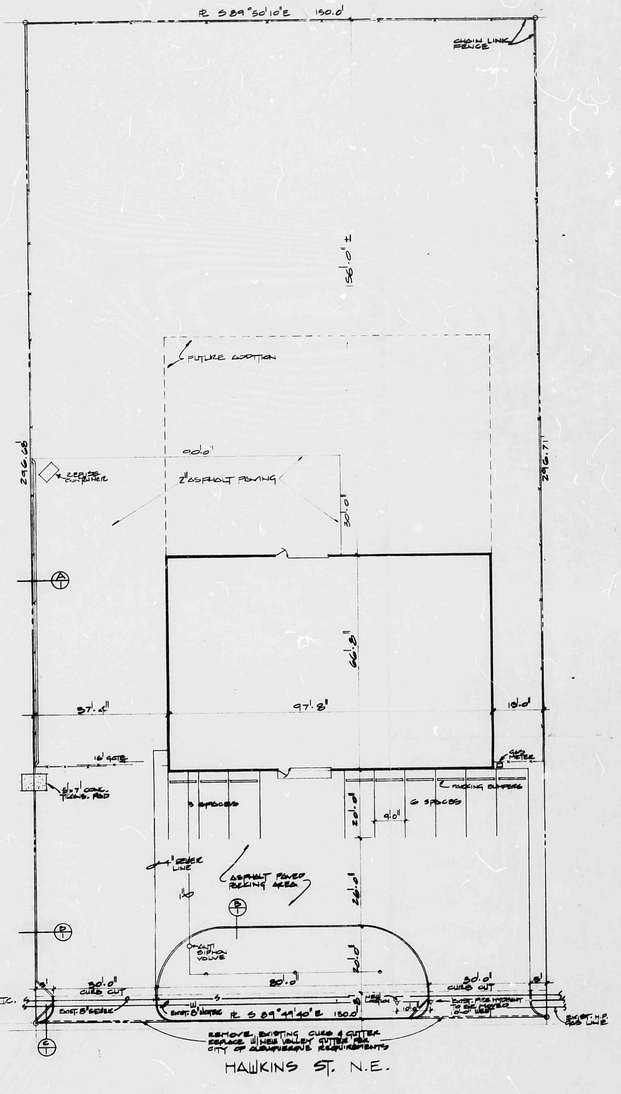
LANDSCAPE LEGEND

1. FRUITLESS MULBERRY, MORUS ALBA 2" CALIPER
2. GRASS



LANDSCAPING, GRADING & DRAINAGE PLAN

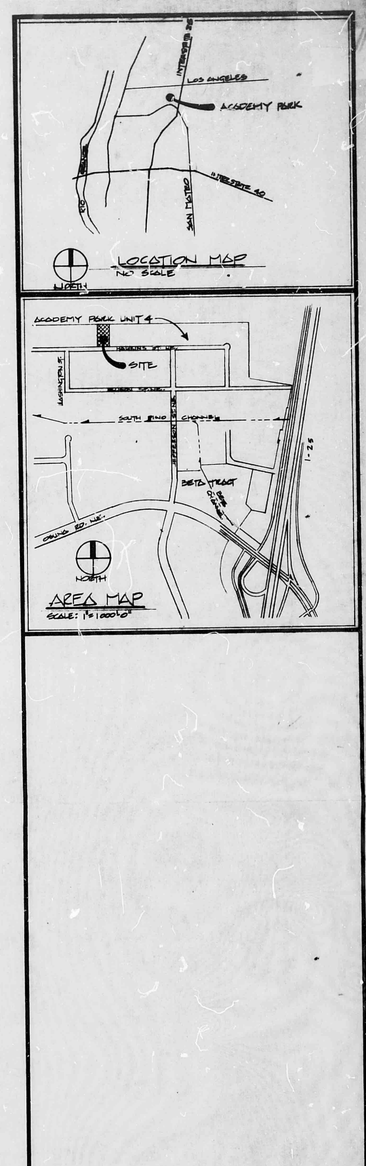
SCALE: 1"=20'-0"



IRRIGATION, SITE & UTILITY PLAN

SCALE: 1"=20'-0"

- ⊕ RAIN BIRD 51DP-15-F LAWN SPRINKLER
- ○ ANTI SIPHON VALVE



DRAINAGE DATA

THIS DATA IS BEING ADDED TO THIS PLAN TO REFLECT THE DRAINAGE CHARACTERISTICS OF THE NEW 40'x50' METAL BUILDING LOCATED AT THE PROPERTY'S NORTHEAST CORNER.

GENERAL INFORMATION

I. EXISTING CONDITIONS-THIS SITE ACCEPTS NO STORM WATERS FROM THE ADJACENT LANDS AND THE GROUND CONDITION IS THAT OF HARD PACKED EARTH WITH A HIGH RUNOFF FACTOR.

II. PROPOSED IMPROVEMENTS-A 40'x50' METAL BUILDING IS PROPOSED FOR CONSTRUCTION OVER A POURED CONCRETE SLAB. FINISH FLOOR ELEVATION SHALL BE THE SAME AS THE F.F. OF THE ORIGINAL BUILDING. THE METAL BUILDING SHALL HAVE STORM GUTTERS ALONG THE NORTH AND SOUTH EDGES OF THE ROOF WITH THE DOWNSPOUTS AT THE WEST END.

III. STORM WATER RUNOFF CALCULATIONS
(THESE CALCULATIONS ARE BASED ON THE IMPACT OF THE NEW BUILDING'S FOOTPRINT)

EXISTING: AREA = 40'x50' = 2000 SF
'c' = 0.75 (FOR HARD PACKED EARTH)
I = 4.73
D = 2.2"
∴ Q = CIA = 0.16 CFS

V = CDA = 275 CU.FT.

PROPOSED: DATA IS THE SAME EXCEPT FOR:
'c' = 0.95

∴ Q = CIA = 0.21 CFS

V = CDA = 348 CU.FT.

IV. CONCLUSION: THE PROPOSED CONSTRUCTION IS EXPECTED TO GENERATE AN INCREASE OF 73 CU.FT. OF STORM WATER RUNOFF IN THE EVENT OF A 100 YR.-6 HR. STORM

EXCERPT FROM DRAINAGE REPORT FOR ACADEMY PARK UNIT 4, A DEVELOPMENT OF JACK M. CLIFFORD & CO. AND PREPARED BY GORDON HERENHOFF & ASSOCIATES, INC. PAGE 4, AREA 2 & 3: "THIS AREA WILL BE DEVELOPED SO THAT HAWKINS STREET WILL RECEIVE ALL RUNOFF, AND "PARKING AREAS WILL BE ALLOWED BUT ARE NOT MANDATORY"

PREPARATION OF DRAINAGE DATA & CALCULATIONS

Fred C. Arfman — 12-20-83
FRED C. ARFMAN, P.E. — DATE

FRED C. ARFMAN NEW MEXICO 7322 REGISTERED PROFESSIONAL ENGINEER

RECEIVED
DEC 20 1983
ENGINEERING

D17/D44

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