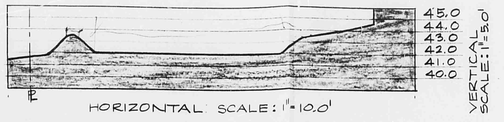
HYDROLOGY M16/D17 1 PLAN

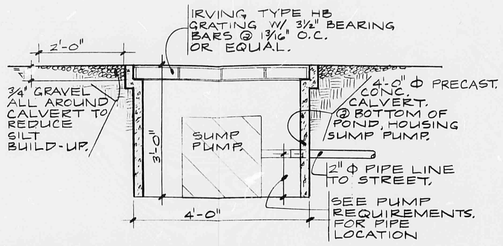
M16/D17

1 Plan

D 24 C 20 B 16 A 12 CITY OF ALBUQUERQUE C D

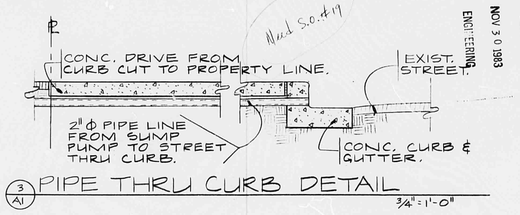


1/A1 PROFILE THRU POND



2/A1 SUMP PUMP DETAIL

3/4" = 1'-0"



3/A1 PIPE THRU CURB DETAIL

3/4" = 1'-0"

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GENERAL NOTES

DESIGN CRITERIA

1. All work shall conform to the 1982 Uniform Building Code.
   Live Loads:
   Roof 20 psf.
   Offices 40 psf
   Storage 125 psf
   Seismic Zone 2 Reqmts
   Wind 70 mph

2. Masonry

a. Masonry Units Shall Conform to ASTM C90-75, Grade N-1

b. Reinforcing Shall Be ASTM a-615 grade 40

3. Cast in place Concrete

a. Compressive Strength of Cast in Place Concrete-3000 psi @ 28 Days

b. Reinforcing Steel ASTM A-615 Grade 40

4. Structural Steel

a. All rolled beams and pipe columns shall conform to ASTM A-36

b. Detailing, Fabrication & Erection shall conform to AISC Specifications & Requirements

c. Contractor shall submit shop drawings for aproval prior to fabrication.

5. Wood

a. Framing Lumber shall have Elastic Modulus E=1,100,000 psi and Bending Strength Fb=975 psi.

b. Plywood Web Trusses shall be designed for the loadings outlined in Section 1.

6. Design Soil Bearing Pressure 2000 psf with footings placed on natural ground and slab placed on engineered compacted fill.

CONSTRUCTION CRITERIA

1. Lap all reinforcing bars 32 diameters unless other wise noted.

2. Construction joint location shall be approved by architect.

3. Slab shall be placed on engineered compacted fill with a minimum depth of 1 ft. Prior to placement of fill the exposed surface shall be scarified to a minimum of 6 inches, watered to near optimum moisture, and compacted to a minimum of 95% of maximum dry density. Fill may then be placed in 8 inch maximum loose depth lifts. Fill shall be moistened to within 2% of optimum moisture and compacted to 95% of maximum density. Top of slow wall shall be braced while fill is being placed. Fill material shall be as specified in Section 5 below.

4. Pond Embankment shall consist of engineered compacted fill. Natural ground beneath embankment shall be scarified to a depth of 6 inches and compacted to 95% of maximum density at optimum moisture plus or minus 2%. Fill may then be placed in 8 inch maximum loose depth lifts and compacted in the same manner. Fill material shall be as outlined in Section 5. Slope shall not exceed 2:1 horizontal to vertical.

5. Structural fill shall be free of vegetation, debris, and other deleterious material and shall have the following characteristics:

Sieve Size (Square Openings)	Percent Passing by weight
3 inch	100
no. 200	5-50

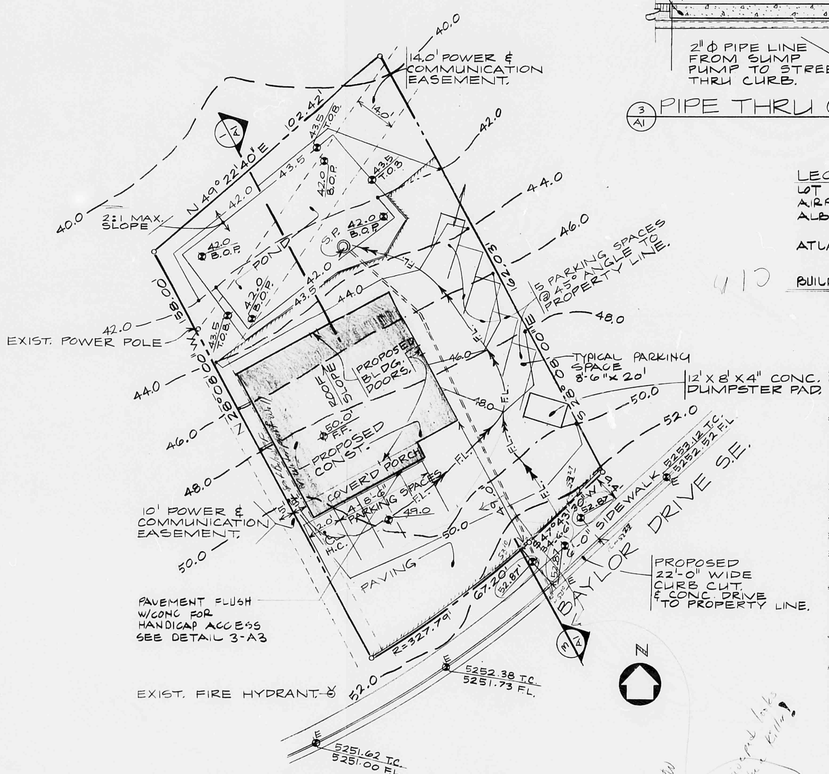
It shall have a P. I. of not more than 15. Testing shall be in conformance with ASTM D 423 and D 424 for P. I. and D 1557 for density.

6. The contractor is responsible for any temporary bracing required to hold structural elements in place until work is complete.

7. All conditions indicated on the plans shall be field verified by the contractor. If discrepancies exist they shall be brought to the attention of the architect before work proceeds.

GENERAL NOTES

ZONE CLASSIFICATION	M-1
SEISMIC ZONE	2
GROUP OCCUPANCY	B2
OCCUPANT LOAD	30
TYPE CONSTRUCTION	V-N
ROOF LIVE LOAD	20 PSF
FLOOR LIVE LOAD	50 PSF
WIND PRESSURE	
WALLS = P=1.2x 1.3x 26x1 =	40.56 PSF
ROOF = P=1.2x .7x 26x1 =	21.84 PSF
CORNERS: P=1.2x 2.0x 26x1 =	62.4 PSF
CONCRETE STRENGTH	3000 PSI
WOOD	#2 OR BETTER P. PINE F_b 975 MIN
PARKING SPACES REQ'D	10
PARKING SPACES PROVIDED	10 (J-H-C)



GRADING PLAN

1" = 20.0'

LEGEND

—F.L.→	= FLOW LINE
—0.0—	= PROPOSED CONTOUR
———	= EXISTING CONTOUR
T.O.B.	= TOP OF BERM.
B.O.P.	= BOTTOM OF POND.
F.F.	= FINISHED FLOOR.
	= PROPOSED ELEVATION.
E	= EXIST. ELEVATION.
T.C.	= TOP OF CURB
=====	= 2" PIPE LINE
S.P.	= SUMP PUMP
	= EDGE OF PAVING

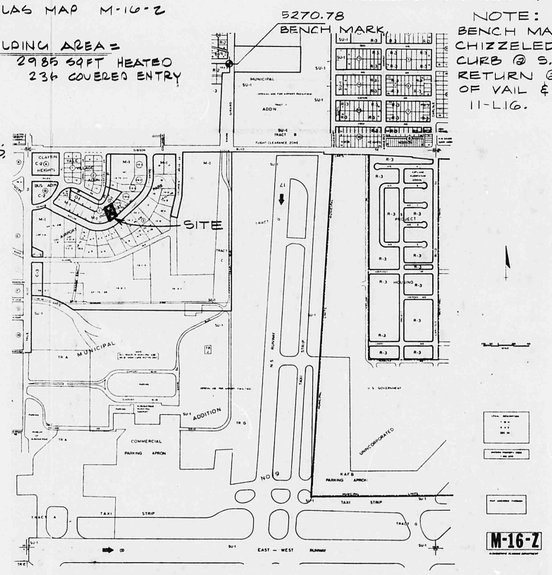
LEGAL DESCRIPTION
LOT 12A
AIRPORT INDUSTRIAL PARK
ALBUQUERQUE, NEW MEXICO

ATLAS MAP M-16-Z

BUILDING AREA =
2985 SQFT HEATED
236 COVERED ENTRY

5270.78
BENCH MARK

NOTE:
BENCH MARK IS CHIZZELED IN CONC. CURB @ S.S.W. CURB RETURN @ INTERSECTION OF VAIL & GIRARD S.E.
11-L16.



VICINITY MAP

M16-D17

SHEET A-1

OFFICE & FOOD STORAGE BLDG FOR DEAN CONSTRUCTION CO.

engineering associates
1840 lomas northeast
albuquerque, nm 87106

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