HYDROLOGY

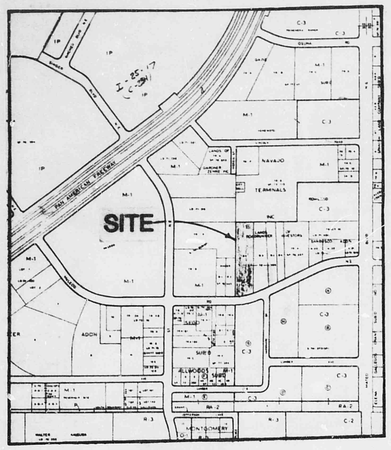
F17/D35

ONE PLAN

PLAN FOR

McLEOD MINI WAREHOUSES

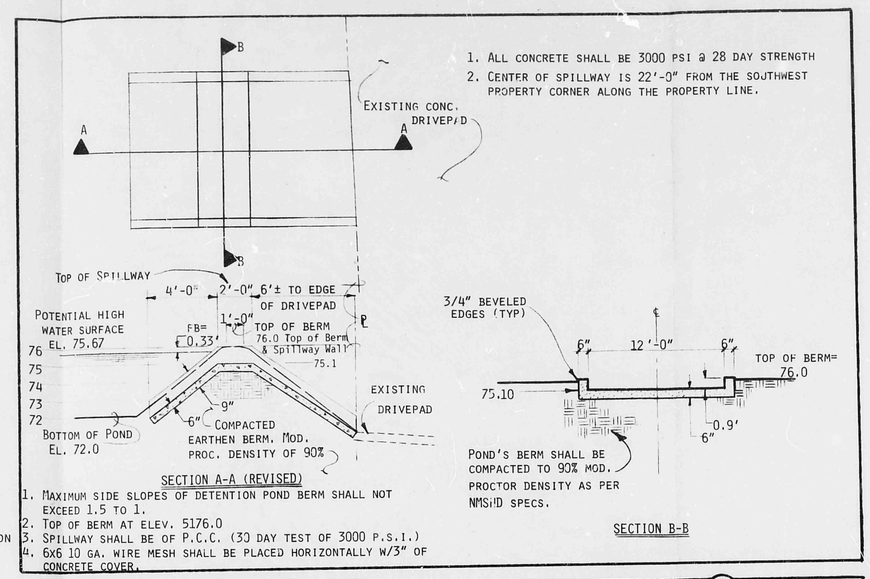
F17-D35



VICINITY MAP

LEGEND

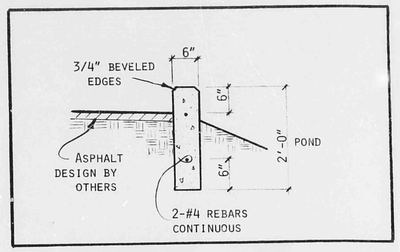
FF=78.00	FINISH FLOOR ELEVATION
80	EXISTING CONTOUR
80	PROPOSED CONTOUR
TBM	TEMPORARY BENCH MARK
×79.1	EXISTING SPOT ELEVATION
	PROPOSED SWALE
	FLOW DIRECTIONAL ARROW
	EXISTING CURB AND GUTTER
	EXISTING EARTHEN BANK
	OFFSITE DRAINAGE COLLECTION SWALE
+79.1	PROPOSED ELEVATION



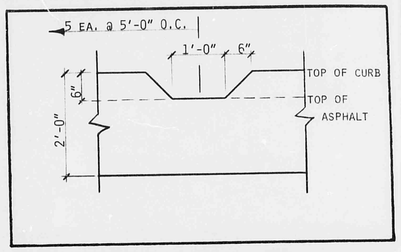
1. MAXIMUM SIDE SLOPES OF DETENTION POND BERM SHALL NOT EXCEED 1.5 TO 1.
2. TOP OF BERM AT ELEV. 5176.0
3. SPILLWAY SHALL BE OF P.C.C. (30 DAY TEST OF 3000 P.S.I.)
4. 6X6 10 GA. WIRE MESH SHALL BE PLACED HORIZONTALLY W/3" OF CONCRETE COVER.

1. ALL CONCRETE SHALL BE 3000 PSI @ 28 DAY STRENGTH
2. CENTER OF SPILLWAY IS 22'-0" FROM THE SOUTHWEST PROPERTY CORNER ALONG THE PROPERTY LINE.

OVERFLOW SPILLWAY & BERM CROSS-SECTION (1) 1/4"=1'-0"

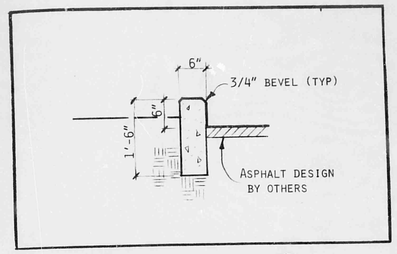


POND HEADER CURB (2) 3/4"=1'-0"

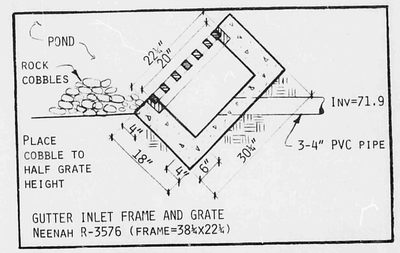


CURB CUTS INTO POND (3) 3/4"=1'-0"

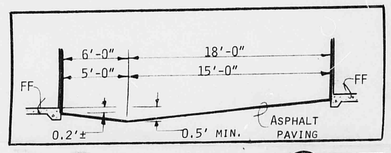
NOTE: ALL CONCRETE SHALL BE 3000 PSI STRENGTH AT 28 DAYS



HEADER CURB (4) 3/4"=1'-0"



POND OUTFALL INLET (5) 3/4"=1'-0"



CORRIDOR DRAINAGE SWALE (C-C) 1"=6'-0"

SCALE: 1"=30'

OFFSITE DRAINAGE SWALE: FUNCTION IS TO COLLECT THOSE UNDEVELOPED SHEET FLOWS GENERATED ON THE ADJACENT PROPERTY AND ALLOW THOSE STORM WATERS TO RELEASE INTO THE RIGHT-OF-WAY OF McLEOD RD.

Q_{10} = 4.3 CFS
Q_{100} = 6.6 CFS
} AT R.O.W.

UNIMPROVED TRACT

S 00°21'27" E 752.08

N 00°04'00" E 785.05

7' P.U.E

THIS STRIP TO MAINTAIN NATURAL CONTOURS

S 89°56'00" E

200.00'

EXISTING ASPHALT PAVING

DRAINAGE CHANNEL

FF=81.33
FF=80.67
FF=80.00
FF=79.33
FF=78.87
FF=78.67
FF=78.00
FF=77.33
FF=76.67
FF=76.00

McLEOD ROAD N.E.

TBM (SLASHED TC) ELEV.=5177.647 TC=77.0

Curb between E & bldg.

HIGH WATER LINE 75.67

INLET EL.=74.5

Fin. FF 76.7 TC=76.0 TC=75.0 TC=76.9

TOP OF BERM= 76.0

ASPHALT PAVING

Existing FH to be relocated to shown location. Construct 5'x5' (min.)x6" pad to elev. 76.0 Flange elev=76.7

PROPERTY CURVE DATA
RADIUS=657.00'
ARC LENGTH=209.08'

EXISTING DRIVEPAD

3-4" PVC PIPE POND OUTFALL PIPES

ROOF DRAINAGE CONTRIBUTING STORM WATERS TO NORTH 7 FOOT STRIP

AREA = (10'x15') + (15'x15') = 375 SF
D = 0.183'
C = 0.95
V = (0.95)(0.183)(375) = 65 CU. FT

COMMENT: 26 CU.FT. WILL BE ADDED TO THE NORTHEASTERLY STRIP AREA WHILE 39 CU.FT. IS DISCHARGED AT THE NORTHWESTERLY CORNER. THESE STORM WATER FLOW VOLUMES ARE INFILTRATED INTO THE SOIL OR MAKE THEIR WAY TO THE SITE'S NW CORNER.

REVISED 2-2-84
TO MODIFY DETENTION POND

REVISED 6-11-84
TO SHOW AND CALCULATE ADDITIONAL STORM WATER VOLUMES CONTRIBUTING TO THE NORTH NATURAL GROUND STRIP (7' WIDE)

F17/D35

FRED C. ARFMAN NEW MEXICO 7322 REGISTERED PROFESSIONAL ENGINEER

Date JAN. 9, 1984
Designed FCA
Checked

Isaacson & Arfman, P.A.
CONSULTING ENGINEERING ASSOCIATES
Albuquerque, New Mexico

DRAINAGE & GRADING PLAN

McLeod Mini-Warehouses
McLeod Rd. N.E.

Sheet 1 of C-1