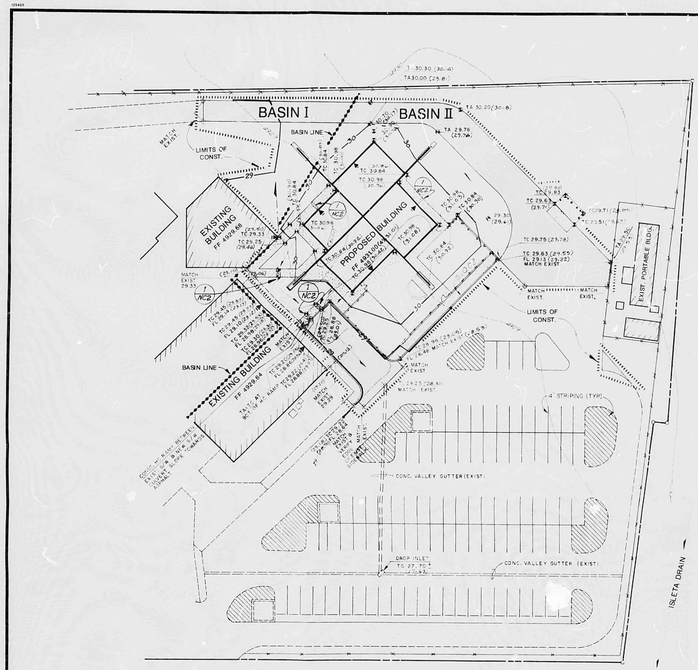
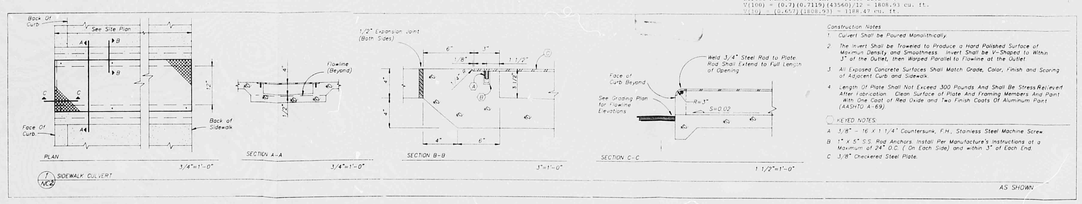


GRADING AND DRAINAGE PLAN



Construction Notes

1. Culvert Shall be Poured Monolithically
2. The Invert Shall be Troweled to Produce a Hard Polished Surface of Uniform Density and Smoothness. Invert Shall be V-Shaped to Within 3" of the Outlet, then Warped Parallel to Flowline at the Outlet.
3. All Exposed Concrete Surfaces Shall Match Grade, Color, Finish and Scoring of Adjacent Curb and Sidewalk.
4. Length Of Plate Shall Not Exceed 300 Pounds And Shall Be Stress Relieved After Fabrication. Clean Surface of Plate And Framing Members And Paint With One Coat of Red Oxide and Two Finish Coats Of Aluminum Paint (AASHTO M-69)

KEYED NOTES

A 3/8" - 16 X 1 1/4" Countersunk, F.H. Stainless Steel Machine Screw

B 1"x 5"-5.5 Rod Anchors. Install Per Manufacturer's Instructions at a Maximum of 24" O.C. (On Each Side) and within 3" of Each End

C 3/8" Checkered Steel Plate.

AS SHOWN

LEGEND

PROPERTY LINE	
NEW BUILDING	
EXIST. BUILDING	
EDGE OF ASPHALT OR CONCRETE	
EXIST. CONTOURS	34
NEW. CONTOURS	35
EXIST. FENCE	
EXIST. CONC. SIDEWALK	
NEW CONC.	
NEW PAVING	
NEW SPOT ELEV.	
EXIST. SPOT ELEV.	
ROOF DRAIN	
AS-BUILT ELEV.	(30.00)

DRAINAGE PLAN

NAVAJO ELEMENTARY SCHOOL

LOCATION AND DESCRIPTION:

THE SITE IS LOCATED AT THE END OF HUGHES ROAD N.W. NEAR THE CORNER OF COORS ROAD AND BARCELONA DRIVE IN ALBUQUERQUE, NEW MEXICO. SEE VICINITY MAP FOR LOCATION. THE SITE IS PRESENTLY DEVELOPED.

EXISTING CONDITIONS:

AT PRESENT, THE SITE IS DIVIDED INTO TWO DRAINAGE BASINS. SEE DRAINAGE PLAN BY JEFF MORTENSEN & ASSOCIATES, INC. DATED 5/18/88. IN SUMMARY, THE BASINS DRAIN TO TWO POINTS. NO OFF-SITE FLOWS ENTER THE SITE HOWEVER, SINCE THE SITE IS LOCATED IN A FLOOD PLAIN, FLOWS WILL ULTIMATELY ENTER THE SITE AT AN UNDETERMINED RATE. THIS PHASE OF CONSTRUCTION IS NOT LOCATED IN A FLOOD PLAIN.

PROPOSED CONDITIONS:

PROPOSED DEVELOPMENT OF THE SITE INCLUDES A BUILDING WITH RELATED ROADS AND LANDSCAPING. THIS DEVELOPMENT MODIFIES BASIN I OF THE ABOVE-REFERENCED DRAINAGE PLAN. DUE TO PROPOSED DEVELOPMENT, RUNOFF FROM THE SITE WILL INCREASE FROM 2.34 CFS TO 2.27 CFS. THE FLOW WILL BE ROUTED TO THE POND VIA ASPHALT GRADES.

CALCULATIONS: (BASED ON CITY OF ALBUQUERQUE DEVELOPMENT PROCESS MANUAL, VOLUME II)

Area = 0.7119 acres
I = 2.2 in./hr. Plate 22.2 D-2
6-hour, 100-year rainfall = 2.2 in. Plate 22.2 D-1
i = (C.2)(2.2) = 4.84 in./hr.

EXISTING ON-SITE CONDITIONS:

SURFACE TYPE	"C" VALUE	A (ACRES)	"C"x A	COMPOSITE "C"=CxA/A
Streets, Drives, Walks	0.95	0.0400	0.0419	
Roofs	0.90	0.2900	0.2610	
Lawns & Landscaping	0.25	0.0000	0.0000	
Undeveloped	0.40	0.3819	0.1527	
TOTAL		0.7119	0.4812	0.68

Q(100) = (0.68)(4.84)(0.7119) = 2.34 cfs
V(100) = (0.657)(2.23) = 1.46 fps
CN = 90 Plate 22.2 C-4
Direct Runoff = 0.2 in. Plate 22.2 C-4
V(100) = (0.7)(0.7119)(43560)/12 = 1808.93 cu. ft.
V(10) = (0.657)(1808.93) = 1188.47 cu. ft.

PROPOSED ON-SITE CONDITIONS:

SURFACE TYPE	"C" VALUE	A (ACRES)	"C"x A	COMPOSITE "C"=CxA/A
Streets, Drives, Walks	0.95	0.3100	0.2945	
Roofs	0.90	0.2900	0.2610	
Lawns & Landscaping	0.25	0.0963	0.0241	
Undeveloped	0.40	0.0156	0.0062	
TOTAL		0.7119	0.4701	0.66

Q(100) = (0.66)(4.84)(0.7119) = 2.27 cfs
V(10) = (0.657)(2.27) = 1.49 fps
CN = 90 Plate 22.2 C-4
Direct Runoff = 0.2 in. Plate 22.2 C-4
V(100) = (0.7)(0.7119)(43560)/12 = 1808.93 cu. ft.
V(10) = (0.657)(1808.93) = 1188.47 cu. ft.

I HEREBY CERTIFY THIS DRAINAGE PLAN IS IN SUBSTANTIAL COMPLIANCE WITH THE APPROVED DRAINAGE PLAN.

Keith L. Young 8-9-90

VICINITY MAP N-11 & 12-Z
FLOOD HAZARD BDY. PANEL NO. 39 & 40

LEGAL DESCRIPTION

TRACT 6, MAP 47 & South Portion of tract 93-A, MAP 46 of M.R.G.C.D., Bernalillo County, New Mexico.

BENCHMARK

The Station is a Standard aluminum Tablet Stamped "ACS, G-911, 1983" and is located @ the Intersection of Country View Road & Barcelona Rd. SW Elevation in Feet = 4927.36.

Project Benchmark is a chiseled "X" @ back Curb. Elevation in feet = 4929.21 set reference TBM prior Demolition. See plan for location.

SURVEY DATA

Topographic Data provided by FRANKLIN E. WILSON, N.M.R.L.S. No. 6446, Albuquerque, New Mexico & Dekker & Associates, Albuquerque, New Mexico.

CUSTER-BASARICH LTD
Architects-Planners AIA
200 Central SW Suite 1000W
Albuquerque, New Mexico 87102
Telephone (505) 765-1020

REMODELING AND ADDITIONS TO
TRUMAN MIDDLE SCHOOL & NAVAJO ELEMENTARY SCHOOL
ALBUQUERQUE PUBLIC SCHOOLS
Albuquerque, New Mexico

PROJECT

REVISIONS

DATE OCT. 16, 89

SHEET TITLE
NAVAJO GRADING AND DRAINAGE PLAN

RECEIVED
AUG 10 1990
HYDROLOGY DIVISION

SHEET NO. NC-2

Rd. 22 DATE 8/8/90 BY

CITY OF ALBUQUERQUE

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PLANS/PLATS ON FILE

FILE DESC: N-11/0002

PLANS/PLATS 1

F 30 D 24 C 20 B 16 A 12 | CITY OF ALBUQUERQUE | C D F