

DRAINAGE PLAN
SCALE: 1"=20'

- LEGEND**
- - - EXIST CONTOUR
 - - - EXIST DROP INLET
 - - - EXIST ROOF DRAIN
 - - - EXIST FENCE ON C.M.U. WALL
 - - - NEW CHAIN LINK FENCE
 - - - PROPERTY LINE
 - + NEW SPOT ELEV.

NOTICE TO CONTRACTOR

1. ALL WORK DETAILED ON THESE PLANS TO BE PERFORMED UNDER CONTRACT SHALL BE EXCEPT AS OTHERWISE STATED OR PROVIDED FOR HEREON, BE CONSTRUCTED IN ACCORDANCE WITH THE CITY OF ALBUQUERQUE, STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, 1995 (CMA STD).
2. TWO (2) WORKING DAYS PRIOR TO ANY EXCAVATION, CONTRACTOR MUST CONTACT LINE LOCATING UTILITY.
3. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL EXCAVATE AND VERIFY THE HORIZONTAL AND VERTICAL LOCATIONS OF ALL UTILITIES. SHOULD A CONFLICT EXIST, THE CONTRACTOR SHALL NOTIFY THE ENGINEER OR SUPERVISOR SO THAT THE CONFLICT CAN BE RESOLVED WITH MINIMUM DELAY.
4. CURB AND GUTTER SHOWN AS EXISTING AND NOT TO BE REMOVED UNDER THE CONTRACT WHICH IS DAMAGED OR DISAPPEARED BY THE CONTRACTOR SHALL BE REPAIRED AND REPLACED BY THE CONTRACTOR AT HIS EXPENSE.
5. AN EXCAVATION/CONSTRUCTION PERMIT WILL BE REQUIRED BEFORE BEGINNING ANY WORK WITHIN CITY RIGHT-OF-WAY. AN APPROVED COPY OF THESE PLANS MUST BE SUBMITTED AT THE TIME OF APPLICATION FOR THIS PERMIT.
6. BACKFILL CONSTRUCTION SHALL BE ACCORDING TO APPLICABLE STREET USE.
7. MAINTENANCE OF THESE FACILITIES SHALL BE THE RESPONSIBILITY OF THE OWNER OF THE PROPERTY SERVED.
8. CONTRACTOR IS RESPONSIBLE FOR OBTAINING A PERMIT TO CONSTRUCT FACILITIES WITHIN CITY RIGHT-OF-WAY.

LOCATION AND DESCRIPTION:

THE PROPOSED IMPROVEMENTS, AS SHOWN IN THE VICINITY MAP ARE LOCATED ON THE SOUTHWEST CORNER OF CHELWOOD PARK BOULEVARD AND TOWNER AVENUE, NORTHWEST IN ALBUQUERQUE, NEW MEXICO. THE SITE, CONTAINING APPROXIMATELY 0.54 ACRES, IS PRESENTLY DEVELOPED. TOPOGRAPHIC INFORMATION INDICATES EXISTING SLOPES ARE FROM THE EAST TO THE WEST.

DRAINAGE BACKGROUND:

AS SHOWN BY PANEL 24 OF 58 OF THE FLOOD HAZARD AND FLOODWAY MAP, THIS SITE DOES NOT LIE WITHIN A DESIGNATED FLOOD HAZARD ZONE. THE PANEL ALSO REVEALS THAT THERE IS NO DOWNSTREAM FLOODING.

EXISTING CONDITIONS:

ON-SITE CONSIDERATIONS:

PRESENTLY, RUNOFF FROM THE SITE DISCHARGES ONTO TOWNER AVENUE WHERE IT IS INTERCEPTED BY CATCHBASINS AT TOWER AND CHELWOOD AND INTO THE ALLEY WHERE IT IS INTERCEPTED BY CATCHBASINS IN CHELWOOD. THE ALLEY, RUNOFF GENERATED BY THE 100-YEAR STORM FOR THE SITE IS APPROXIMATELY 1.7 CFS (SEE CALCULATIONS).

OFF-SITE CONSIDERATIONS:

OFF-SITE RUNOFF DOES NOT ENTER THE SITE DUE TO EXISTING ELEVATIONS AND DRAINAGE PATTERNS.

PROPOSED CONDITIONS:

ON-SITE CONSIDERATIONS:

THE GRADING PLAN SHOWS EXISTING AND PROPOSED GRADES INDICATED BY SPOT ELEVATIONS AND CONTOURS. THE LINE AND CHARACTER OF THE PROPOSED IMPROVEMENTS AND THE CONTINUITY BETWEEN EXISTING AND PROPOSED GRADES, AS SHOWN IN THIS PLAN, THE PROPOSED DEVELOPMENT OF THE SITE INCLUDES AN ADDITION TO AN EXISTING BUILDING. SEE TO PROPOSED DEVELOPMENT, FLOW FROM THE SITE WILL INCREASE TO 1.96 CFS (SEE CALCULATIONS). THE GRADING DESIGN PROPOSED WILL ROUTE 140 CFS VIA A 14" PVC PIPE TO TOWER AVENUE. THIS FLOW WILL DISCHARGE THROUGH A PROPOSED LINE UNDER THE SIDEWALK AND THROUGH THE CURB. 0.40 CFS WILL BE ROUTED TO THE ALLEY. THE TOTAL RUNOFF FROM A 100-YEAR, 6-HOUR STORM GENERATED BY THIS DEVELOPMENT WILL BE EVENTUALLY INTERCEPTED BY CATCHBASINS IN CHELWOOD AND WILL NOT ENTER A FLOOD PLAN.

CALCULATIONS: (BASED ON CITY OF ALBUQUERQUE DEVELOPMENT PROCESS MANUAL, VOLUME 11).

Area = 0.54 acres
1" = 2.2 in./hr. Plate 22.2 D-2
4-hour, 100-year rainfall = 2.5 in. Plate 22.2 D-1
1" = (2.2)(2.5) = 5.5 in./hr.

EXISTING ON-SITE CONDITIONS:

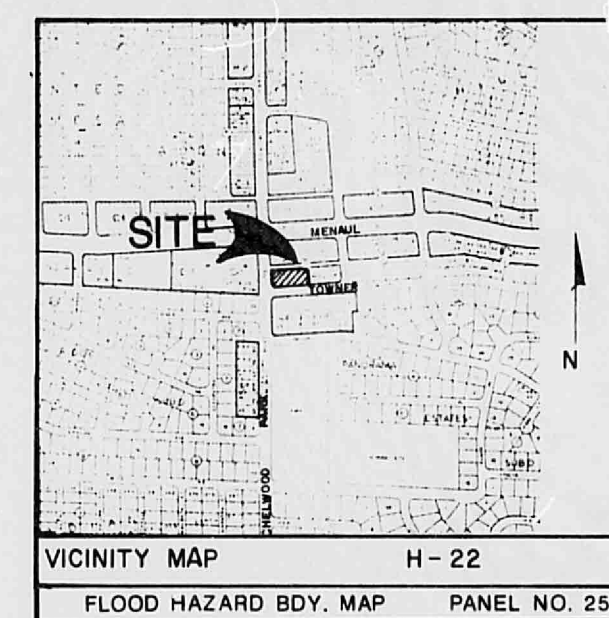
SURFACE TYPE	"C" VALUE	A (ACRES)	"C" X A	COMPOSITE
Streets, Driveways, Walks	0.95	0.161	0.153	0.5047
Roofs	0.95	0.292	0.283	
Lawn & Landscaping	0.25	0.247	0.062	
Undeveloped	0.40	0.080	0.032	
TOTAL			0.54	

Q(100) = (0.54)(5.5)(0.54) = 1.72 cfs
Q(10) = (0.54)(1.1)(0.54) = 0.33 cfs
C = 70 Plate 22.2 C-2
Direct runoff = 0.5 in. Plate 22.2 C-4
V(100) = (0.5)(0.54)(43540)/12 = 980.1 cu. ft.
V(10) = (0.5)(0.54)(43540)/12 = 980.1 cu. ft.

PROPOSED ON-SITE CONDITIONS:

SURFACE TYPE	"C" VALUE	A (ACRES)	"C" X A	COMPOSITE
Streets, Driveways, Walks	0.95	0.173	0.163	0.5088
Roofs	0.95	0.292	0.283	
Lawn & Landscaping	0.25	0.247	0.062	
Undeveloped	0.40	0.080	0.032	
TOTAL			0.54	

Q(100) = (0.54)(5.5)(0.54) = 1.96 cfs
Q(10) = (0.54)(1.1)(0.54) = 0.33 cfs
C = 72 Plate 22.2 C-1
Direct runoff = 0.55 in. Plate 22.2 C-4
V(100) = (0.55)(0.54)(43540)/12 = 1076.1 cu. ft.
V(10) = (0.55)(0.54)(43540)/12 = 1076.1 cu. ft.



LEGAL DESCRIPTION:

Lots 11, 12, & 13 block 1, & east 18' of Chelwood Pk. Blvd. N.E. Brentwood Hills Subdivision

Survey Data

Survey data provided by G.A. Martin Ltd. May 1988

Benchmark Data/ACS - Project

The ACS Benchmark is located at the intersection of Menaul Blvd. & Chelwood Dr. N.E. in the Southwest Quadrant. Elevation = 5915.95.

Project BM is Existing Finish Floor Elevation = 5715.31.

ADDITION TO BRIGHT BEGINNINGS DAY CARE CENTER ALBUQUERQUE, NEW MEXICO	
DRAINAGE PLAN	SHEET C-15 OF

RA 21 DATA 22452062P
CITY OF ALBUQUERQUE

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Karen Rouse
CITY CLERK RECORDER

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PLANS/PLATS ON FILE

FILE DESC:
H-22/DO62

PLANS/PLATS **1**