

DRAINAGE/GRADING PLAN

The following items concerning Lot 24 Block C Of Monkridge Addition, Bernalillo County, Albuquerque, New Mexico are contained hereon:

1. Vicinity Map
2. FEMA Flood Map
3. Drainage Calculations

EXISTING CONDITIONS

As shown by the vicinity map, the site contains .259 +/- acres and is located on Aztec Rd. NE at the end of the street adjacent to the railroad tracks. The site slopes from south to north. According to the Flood Insurance Rate Map Panel 0332D, dated September 20, 1996, the site is not located within a designated flood zone. The site is an infill site, all the surrounding areas are developed.

PROPOSED CONDITIONS

As shown by the Drainage/Grading Plan, the project will consist of a 2,250 sf Office/Warehouse building, along with associated parking and landscaped areas. On-site flows will be routed to and through the existing 24' driveway onto Aztec Rd. NE. From that point the flows will travel west towards 2nd Street NE. An increase of .27 cfs is minimal. The calculations which appear hereon, analyze both the existing and developed conditions for the 100-year, 6-hour rainfall event. The procedure for 40-acres and smaller basins, as set forth in the Revision of Section 22.2 Hydrology of the Development Process Manual Volume 2, Design Criteria Dated 1997 was used to quantify the peak rate of discharge and volume of run-off generated. No off-site flows enter the site from any direction.

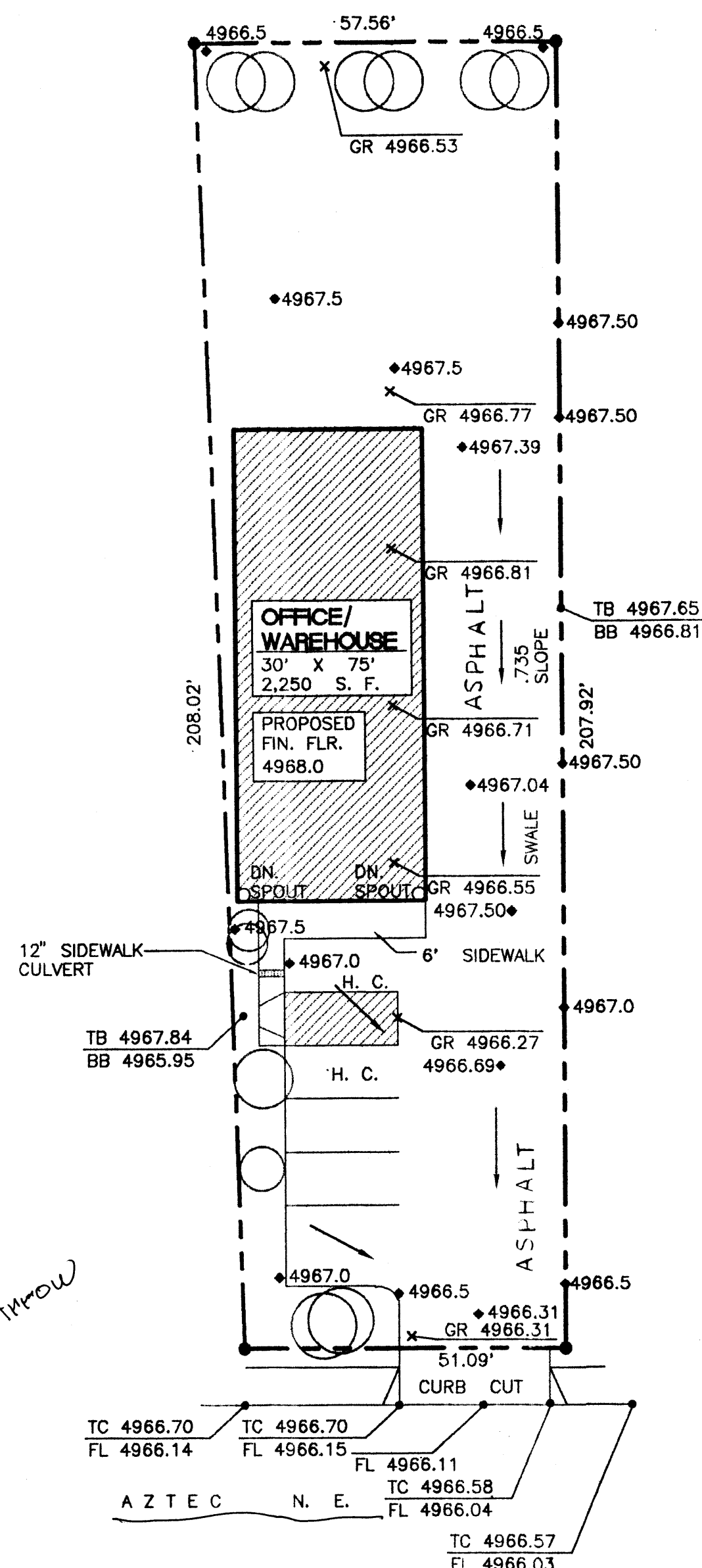
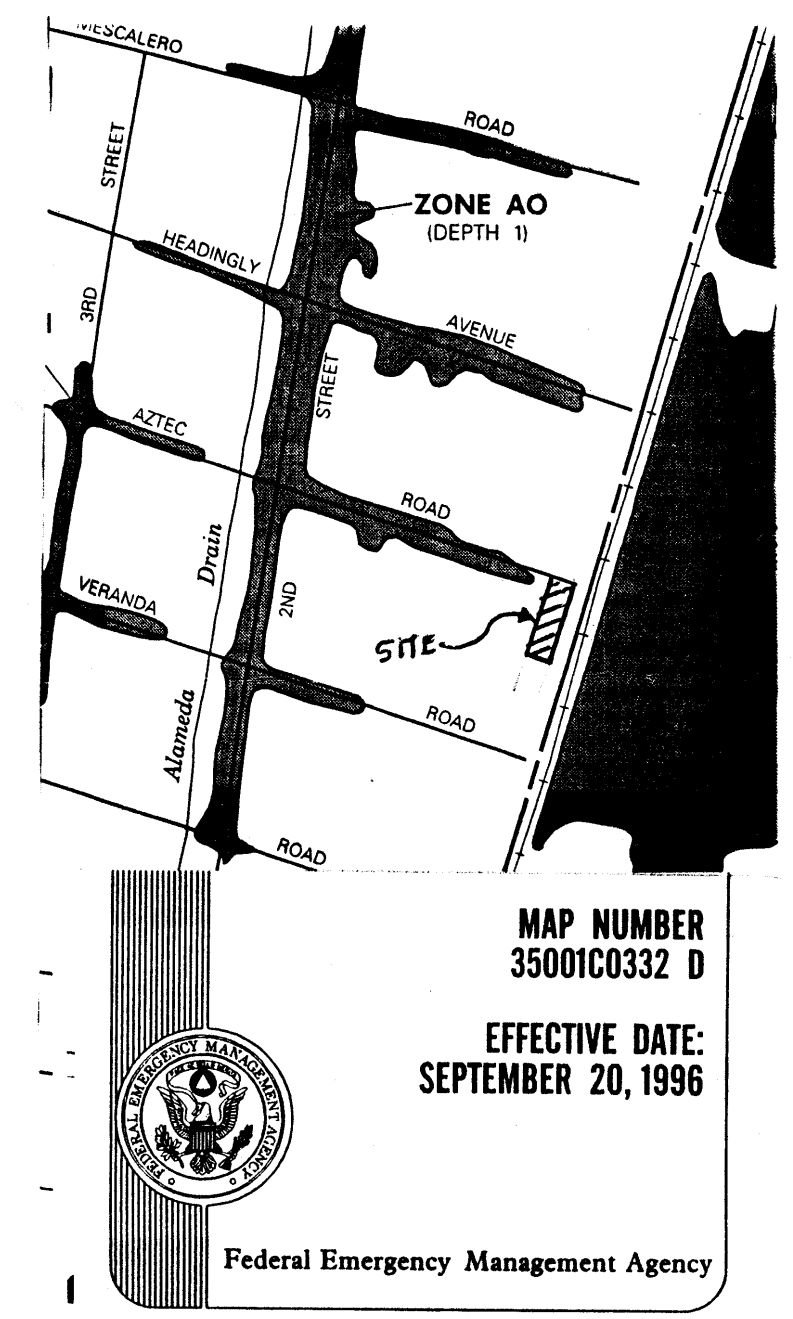
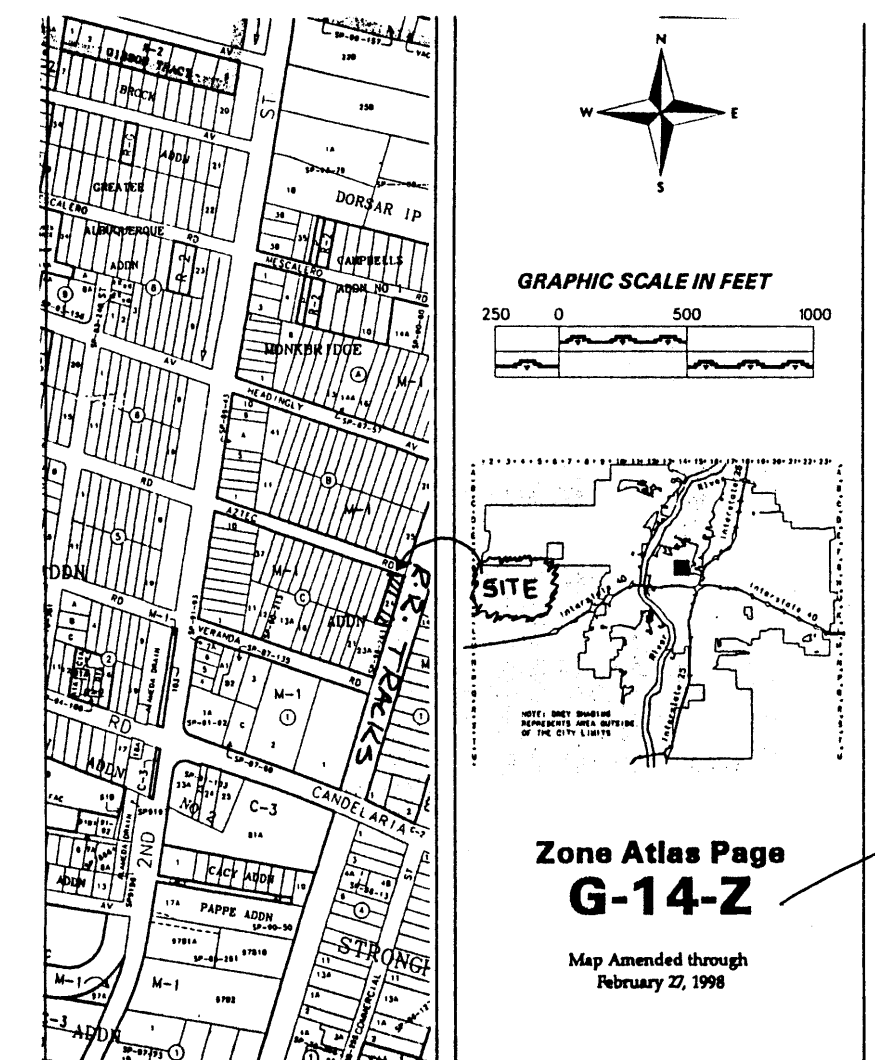
EROSION CONTROL MEASURES

THE CONTRACTOR SHALL BE HELD RESPONSIBLE FOR MANAGEMENT OF STORM RUN-OFF DURING CONSTRUCTION; HE SHALL ASSURE THAT THE FOLLOWING MEASURES ARE TAKEN:

1. ADJACENT PROPERTY SHALL BE PROTECTED AT ALL TIMES BY TEMPORARY BERMS, DIKES, SWALES, AND OTHER TEMPORARY GRADING AS REQUIRED TO PREVENT STORM RUN-OFF TO LEAVE THE SITE AND ENTER ADJACENT PROPERTY.
2. ADJACENT PUBLIC RIGHT-OF-WAY SHALL BE PROTECTED AT ALL TIMES FROM STORM WATER RUN-OFF FROM THE SITE, NO SEDIMENT BEARING WATER SHALL BE PERMITTED TO ENTER THE PUBLIC STREETS.
3. THE CONTRACTOR SHALL IMMEDIATELY AND THOROUGHLY REMOVE ANY OR ALL SEDIMENT WITHIN THE PUBLIC STREETS THAT HAVE BEEN ERODED FROM THE SITE AND DEPOSITED THERE.

NOTE TO CONTRACTOR

1. AN EXCAVATION/CONSTRUCTION PERMIT WILL BE REQUIRED BEFORE BEGINNING ANY WORK WITHIN THE CITY R/W. APPROVED COPY OF THIS PLAN MUST BE SUBMITTED AT THE TIME OF APPLICATION FOR PERMIT.
2. ALL WORK DETAILED IN THIS PLAN TO BE PERFORMED, EXCEPT AS OTHERWISE STATED OR PROVIDED HEREON, SHALL BE CONSTRUCTED IN ACCORDANCE WITH CITY OF ALBUQUERQUE INTERIM STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION 1985.
3. TWO WORKING DAYS PRIOR TO ANY EXCAVATION, CONTRACTOR MUST CONTACT LINE LOCATING SERVICES AT (505) 260-1990 FOR LOCATING EXISTING UTILITIES.
4. BACKFILL COMPACTION SHALL BE ACCORDING TO RESIDENTIAL USE.
5. ALL WORK ON THIS PROJECT SHALL BE PERFORMED IN ACCORDANCE WITH APPLICABLE FEDERAL, STATE, AND LOCAL LAWS, RULES AND REGULATIONS CONCERNING CONSTRUCTION SAFETY AND HEALTH.



Office/Warehouse	AREA =	0.26 ac.
New Building /Aztec		
ZONE 2		
PRECIPITATION:	360 =	2.35 in.
	1440 =	2.75 in.
	10day =	3.95 in.

EXCESS PRECIPITATION:	PEAK DISCHARGE:
TREATMENT A	0.53 in.
TREATMENT B	0.78 in.
TREATMENT C	1.13 in.
TREATMENT D	2.12 in.
	1.56 cfs/ac.
	2.28 cfs/ac.
	3.14 cfs/ac.
	4.70 cfs/ac.

EXISTING CONDITIONS:	PROPOSED CONDITIONS:
TREATMENT A	0 ac.
TREATMENT B	0 ac.
TREATMENT C	0.26 ac.
TREATMENT D	0 ac.
	0.09 ac.
	0.17 ac.

EXISTING EXCESS PRECIPITATION:

$$\text{Weighted E} = (0.53 \times 0.00) + (0.78 \times 0.00) + (1.13 \times 0.26) + (2.12 \times 0.00) = 0.26$$

$$= 1.13 \text{ in.}$$

$$V_{100-360} = (1.13 \times 0.26) / 12 = 0.024427 \text{ ac-ft} = 1064 \text{ cf}$$

EXISTING PEAK DISCHARGE:

$$Q_{100} = (1.56 \times 0.00) + (2.28 \times 0.00) + (3.14 \times 0.26) + (4.70 \times 0.00) = 0.81$$

PROPOSED EXCESS PRECIPITATION:

$$\text{Weighted E} = (0.53 \times 0.00) + (0.78 \times 0.00) + (1.13 \times 0.09) + (2.12 \times 0.17) = 0.26$$

$$= 1.78 \text{ in.}$$

$$V_{100-360} = (1.78 \times 0.26) / 12.0 = 0.038411 \text{ ac-ft} = 1673 \text{ cf}$$

$$V_{100-1440} = (0.04 \times 0.17) \times 2.75 - 2.35 / 12 = 0.044081 \text{ ac-ft} = 1919 \text{ cf}$$

$$V_{100-10day} = (0.04 \times 0.17) \times 3.95 - 2.35 / 12 = 0.061011 \text{ ac-ft} = 2658 \text{ cf}$$

PROPOSED PEAK DISCHARGE:

$$Q_{100} = (1.56 \times 0.00) + (2.28 \times 0.00) + (3.14 \times 0.09) + (4.70 \times 0.17) = 1.08$$

LEGEND

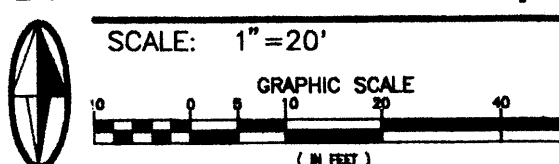
- TC 0.00 EXISTING
- FL 0.00 EXISTING
- GR 0.00 EXISTING
- 0.00 PROPOSED
- TB TOP OF BERM EXISTING
- BB BOTTOM OF BERM EXISTING

BENCH MARK

NM 47-10 ACS BENCHMARK
LOCATED AT THE INTERSECTION
OF MESCALERO RD NE & 2ND STREET NE
ELEVATION 4967.496
OF KIT CARSON AVE. S.E.

TBM:
TOP OF MANHOLE ADJACENT TO SITE ON
AZTEC RD NE ELEVATION: 4966.47

GRADING/DRAINAGE PLAN FOR OFFICE/WAREHOUSE



LEGAL DESCRIPTION

LOT 24
BLOCK C
MONKBRIDGE ADDITION
ALBUQUERQUE, NM

OFFICE/WAREHOUSE
ALBUQUERQUE, NEW MEXICO

REVISION DATE
DATE
8-11-99
SHEET NUMBER
C-1