City of Albuquerque
P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

June 6, 1998

Jeff Mortensen
Jeff Mortensen & Associates
6010B Midway Park Blvd NE
Albuquerque, NM 87109

RE: ENGINEER CERTIFICATION FOR MAY CAFE (K-18/D68) ENGINEER CERTIFICATION STATEMENT DATED 5/26/98

Dear Mr. Mortensen:

Based on the information provided on your May 27, 1998 submittal, Engineering Certification for the above referenced site is acceptable.

If I can be of any further assistance, please feel free to contact me at 924-3330.

C: File

Sincerely,

Andrew Garcia
Drainage Inspector

THE CITY OF ALBUQUERQUE IS AN EQUAL OPPORTUNITY/REASONABLE ACCOMMODATION EMPLOYER

9600402

DRAINAGE INFORMATION SHEET

PROJECT TITLE: MAY CAFE ZONE ATLAS/DRNG. FILE #: K18/D68

DRB #: _____ EPC #: _____ WORK ORDER #: _____

LEGAL DESCRIPTION: LOTS 13-16 & E. 1/2 LOT 17, B-4, FAIRGROUNDS ADDN,

CITY ADDRESS: 111 LOUISIANA SE

ENGINEERING FIRM: JEFF MORTENSEN & ASSOC. CONTACT: JEFF MORTENSEN

ADDRESS: 6010-B MIDWAY PARK BLVD NE PHONE: 345-4250

OWNER: NOT KNOWN CONTACT: ARCHITECT

ADDRESS: _____ PHONE: _____

ARCHITECT: ALEXANDER HARRISON CONTACT: SAME

ADDRESS: 8605 MONTAN RD NE PHONE: 299-6322

SURVEYOR: JEFF MORTENSEN & ASSOC CONTACT: JEFF MORTENSEN

ADDRESS: 6010-B MIDWAY PARK BLVD NE PHONE: 345-4250

CONTRACTOR: NOT KNOWN CONTACT: ARCHITECT

ADDRESS: _____ PHONE: _____

TYPE OF SUBMITTAL:

____ DRAINAGE REPORT
____ DRAINAGE PLAN
____ CONCEPTUAL GRADING & DRAINAGE PLAN
____ GRADING PLAN
____ EROSION CONTROL PLAN
X ENGINEER'S CERTIFICATION
____ OTHER

PRE-DESIGN MEETING:

____ YES
____ NO
____ COPY PROVIDED

CHECK TYPE OF APPROVAL SOUGHT:

____ SKETCH PLAT APPROVAL
____ PRELIMINARY PLAT APPROVAL
____ S. DEV. PLAN FOR SUB'D. APPROVAL
____ S. DEV. PLAN FOR BLDG. PERMIT APPROVAL
____ SECTOR PLAN APPROVAL
____ FINAL PLAT APPROVAL
____ FOUNDATION PERMIT APPROVAL
____ BUILDING PERMIT APPROVAL
X CERTIFICATE OF OCCUPANCY APPROVAL
____ GRADING PERMIT APPROVAL
____ PAVING PERMIT APPROVAL
____ S.A.D. DRAINAGE REPORT
____ DRAINAGE REQUIREMENTS
____ OTHER _____ (SPECIFY)

DATE SUBMITTED: 05-27-98

BY: JEFFREY G. MORTENSEN

RECEIVED
MAY 27 1998
HYDROLOGY SECTION

Perm on 6-8-98

DRAINAGE PLAN

The following items concerning the May Cafe Drainage Plan are contained hereon:

1. Vicinity Map
2. Grading Plan
3. Calculations

As shown by the Vicinity Map, the site is located on the northwest corner of Louisiana Boulevard S.E. and Cochiti Road S.E. At present, the site is developed with existing buildings and associated paved parking. The proposed improvements consist of new building construction with associated paving and landscaping improvements. In association with the new construction, the existing parking lot will receive a 1" asphaltic concrete overlay. New landscaped islands will be provided within the existing parking lot, and two new drivepads will be constructed to provide access to the existing parking lot.

As shown by Panel 30 of 50 of the National Flood Insurance Program Flood Insurance Rate Maps published by F.E.M.A. for the City of Albuquerque, New Mexico dated October 14, 1983, this site does not lie within a designated flood hazard zone. The site does lie adjacent to a flood hazard zone (designated AO, depth 1) which is contained within Louisiana Boulevard S.E. This site does not directly drain to this flood hazard zone.

The Grading Plan shows: 1) existing and proposed grades indicated by spot elevations and contours at 1'0" intervals, 2) the limit and character of the existing improvements, 3) the limit and character of the proposed improvements, and 4) continuity between existing and proposed grades. At present, the site freely discharges sheet runoff to Cochiti Road S.E. Offsite flows do not enter the site from the developed lot which lies to the west which is topographically lower than the May Cafe site. Offsite flows do not enter the site from the improved public alley to the north or from the improved public streets which lie to the east and to the south which are developed with curb and gutter.

The Calculations which appear hereon analyze both the existing and developed conditions for the 100-year, 6-hour rainfall event. The Procedure for 40-acre and Smaller Basins, as set forth in the Revision of Section 22.2, Hydrology of the Development Process Manual, Volume 2, Design Criteria, dated January, 1993, has been used to quantify the peak rate of discharge and volume of runoff generated. As shown by these calculations, the proposed improvements will result in a slight increase in volume and no change in peak rate of discharge generated by this site. Because the proposed construction consists of modifications to an existing site within an infill area which results in a very slight increase in runoff, the continued free discharge from this site is appropriate.

RECEIVED
MAY 27 1998
HYDROLOGY SECTION

CALCULATIONS

Site Characteristics

1. Precipitation Zone = 3
2. $P_{6,100} = P_{360} =$ 2.60 in.
3. Total Area (A_T) = 29,730 sf/0.68 ac
4. Existing Land Treatment

Treatment	Area (sf/ac)	%
C	6,200/0.14	21
D	23,530/0.54	79

5. Developed Land Treatment

Treatment	Area (sf/ac)	%
B	3,520/0.08	12
D	26,210/0.60	88

Existing Condition

1. Volume

$E_W = (E_A A_A + E_B A_B + E_C A_C + E_D A_D)/A_T$

$E_W = [(1.29)(0.14) + (2.36)(0.54)]/0.68 = 2.14$ in.

$V_{100} = (E_W/12)A_T$

$V_{100} = (2.14/12)(29,730) = 5,300$ cf

2. Peak Discharge

$Q_p = Q_{PA}A_A + Q_{PB}A_B + Q_{PC}A_C + Q_{PD}A_D$

$Q_p = Q_{100} = (3.45)(0.14) + (5.02)(0.54) = 3.2$ cfs

Developed Condition

1. Volume

$E_W = (E_A A_A + E_B A_B + E_C A_C + E_D A_D)/A_T$

$E_W = [(0.92)(0.08) + (2.36)(0.60)]/(0.68) = 2.19$ in

$V_{100} = (E_W/12)A_T$

$V_{100} = (2.19/12)(29,730) = 5,430$ cf

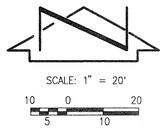
2. Peak Discharge

$Q_p = Q_{PA}A_A + Q_{PB}A_B + Q_{PC}A_C + Q_{PD}A_D$

$Q_p = Q_{100} = (2.60)(0.08) + (5.02)(0.60) = 3.2$ cfs

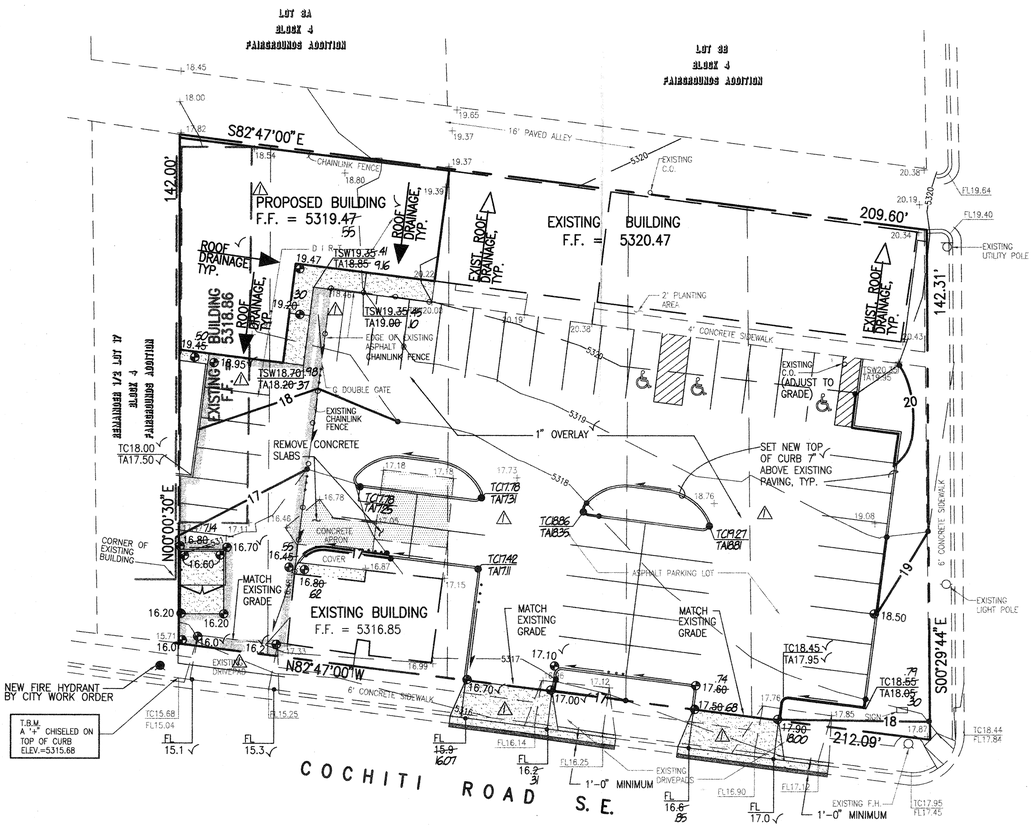
Comparison

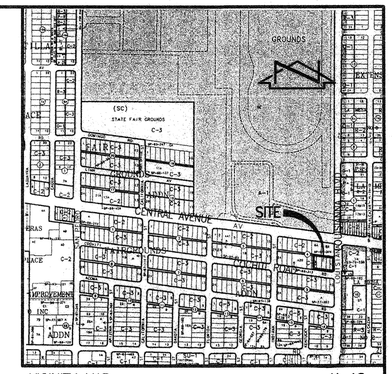
1. $\Delta V_{100} = 5,430 - 5,300 = 130$ cf (increase)
2. $\Delta Q_{100} = 3.2 - 3.2 = 0$ (no change)



SCALE: 1" = 20'

10 0 20
5 10





VICINITY MAP K-18

SCALE: 1" = 750'±

LEGAL DESCRIPTION

LOTS 13, 14, 15, 16, AND EAST 1/2 OF LOT 17, BLOCK 4, FAIRGROUNDS ADDITION

PROJECT BENCHMARK

ACS BRASS CAP SET IN A CONCRETE CYLINDER IN THE GROUND, STAMPED "7-K19, 1974 ACS". STATION IS LOCATED AT THE INTERSECTION OF CENTRAL AVENUE AND LOUISIANA BOULEVARD, 65.5 FEET EAST OF CENTERLINE ON LOUISIANA BLVD. AND 25.7 FEET SOUTH OF CENTERLINE ON THE WEST BOUND LANES OF CENTRAL AVENUE. STATION IS ON THE NOSE OF THE MEDIAN.
ELEVATION = 5323.365 FEET (M.S.L.D.)

T.B.M.

A '+' CHISELED ON TOP OF CURB AT THE SOUTHWEST CORNER OF THE SITE.
ELEVATION = 5315.68 FEET (M.S.L.D.)

Construction Notes:

1. Two (2) working days prior to any excavation, contractor must contact New Mexico One Call System 260-1990 (Albuquerque Area), 1-800-321-ALERT(2537) (Statewide), for location of existing utilities.
2. Prior to construction, the contractor shall excavate and verify the horizontal and vertical location of all potential obstructions. Should a conflict exist, the contractor shall notify the engineer in writing so that the conflict can be resolved with a minimum amount of delay. The Contractor shall be responsible for all interpretations it makes without first contacting the Engineer as required above.
3. 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.
4. All construction within public right-of-way shall be performed in accordance with applicable City of Albuquerque Standards and Procedures.
5. If any utility lines, pipelines, or underground utility lines are shown on these drawings, they are shown in an approximate manner only, and such lines may exist where none are shown. If any such existing lines are shown, the location is based upon information provided by the owner of said utility, and the information may be incomplete, or may be obsolete by the time construction commences. The engineer has conducted only preliminary investigation of the location, depth, size, or type of existing utility lines, pipelines, or underground utility lines. This investigation is not conclusive, and may not be complete, therefore, makes no representation pertaining thereto, and assumes no responsibility or liability therefor. The contractor shall inform itself of the location of any utility line, pipeline, or underground utility line in or near the area of the work in advance of and during excavation work. The contractor is fully responsible for any and all damage caused by its failure to locate, identify and preserve any and all existing utilities, pipelines, and underground utility lines. In planning and conducting excavation, the contractor shall comply with state statutes, municipal and local ordinances, rules and regulations, if any, pertaining to the location of these lines and facilities.
6. The design of planters and landscaped areas is not part of this plan. All planters and landscaped areas adjacent to the building(s) shall be provided with positive drainage to avoid any ponding adjacent to the structure. For construction details, refer to landscaping plan.

Erosion Control Measures:

1. The contractor shall ensure that no soil erodes from the site into public right-of-way or onto private property.
2. The contractor shall promptly clean up any material excavated within the public right-of-way so that the excavated material is not susceptible to being washed down the street.
3. The contractor shall secure "Topsoil Disturbance Permit" prior to beginning construction.

LEGEND

+99.2	EXISTING SPOT ELEVATION
	EXISTING CONTOUR
	EXISTING CURB AND GUTTER
	PROPERTY LINE
	LOT LINE
	EXISTING BUILDING
99.5	PROPOSED SPOT ELEVATION
	PROPOSED FLOW LINE
18	PROPOSED CONTOUR
TC	TOP OF CURB
FL	FLOWLINE
TSW	TOP OF SIDEWALK
TA	TOP OF ASPHALT
	NEW ASPHALT
	NEW CONCRETE

⚠ CERTIFICATION

As indicated by the as-built information shown hereon, this project has been graded and drained in substantial compliance with the approved Plan. It is based upon this evaluation of as-constructed conditions that issuance of a Permanent Certificate of Occupancy is hereby recommended. The as-built information shown hereon has been obtained by me or under my direct supervision and is true and correct to the best of my knowledge and belief.

Jeffrey G. Mortensen, NMPE 8547 — Date 05-26-98

JEFFREY G. MORTENSEN NEW MEXICO 8547 REGISTERED PROFESSIONAL ENGINEER

⚠ AS-BUILT LEGEND

7/4 16.80	AS-BUILT ELEVATION
TC7127	AS-BUILT ELEVATION
16.70	AS-BUILT = AS DESIGNED ELEVATION

JEFFREY G. MORTENSEN NEW MEXICO 8547 REGISTERED PROFESSIONAL ENGINEER
08-01-96

JEFF MORTENSEN & ASSOCIATES, INC.
6010-B MIDWAY PARK BLVD. N.E.
ALBUQUERQUE NEW MEXICO 87109
ENGINEERS SURVEYORS (505) 345-4250

GRADING AND DRAINAGE PLAN
MAY CAFE

DESIGNED BY J.G.M.
DRAWN BY C.J.H.
APPROVED BY J.G.M.

NO.	DATE	BY	REVISIONS
⚠	5/98	JGM	AS-BUILT AND CERTIFY

JOB NO. 960402
DATE 08-1996
SHEET 1 OF 1

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