



City of Albuquerque

P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

February 18, 1993

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

RE: ENGINEER CERTIFICATION FOR AN ADDITION TO LOVELACE-CARLISLE
CLINIC (G16-D83) ENGINEER'S CERTIFICATION STATEMENT DATED 2/16/93.

Dear Mr. Mortensen:

Based on the information provided on your February 17, 1993 submittal,
Engineer Certification for the building addition is acceptable.

Please advise your client that once the future parking lot modifications are
completed, Engineer Certification will be required for that portion also.

If I can be of further assistance, please feel free to contact me at 768-2667.

Sincerely,

Bernie J. Montoya
Bernie J. Montoya, CE
Engineering Assistant

BJM/d1/WPHYD/7391

xc: Alan Martinez
James T. Weby
File

PUBLIC WORKS DEPARTMENT

50907

PROJECT TITLE: LOVELACE CARLISLE CLINIC ZONE ATLAS/DRNG. FILE #: G16/D83

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

LEGAL DESCRIPTION: TRACT A-2-B, MONTGOMERY HEIGHTSCITY ADDRESS: 3901 CARLISLE NEENGINEERING FIRM: JEFF MORTENSEN & ASSOC. CONTACT: JEFF MORTENSENADDRESS: 6010-B MIDWAY PARK BLVD NE PHONE: 345-4250OWNER: LOVELACE INC CONTACT: JAMES T. WELBYADDRESS: 5400 GIBSON SE PHONE: 262-7157ARCHITECT: GREGORY T. HICKS & ASSOC CONTACT: RUSSELL GOLIGHTLYADDRESS: 210 2ND ST SW PHONE: 243-7492SURVEYOR: JEFF MORTENSEN & ASSOC CONTACT: JEFF MORTENSENADDRESS: 6010-B MIDWAY PARK BLVD NE PHONE: 345-4250CONTRACTOR: BRITTON CONTACT: JIM ROUPAS

ADDRESS: _____ PHONE: _____

TYPE OF SUBMITTAL:

- ☐ DRAINAGE REPORT
☐ DRAINAGE PLAN
☐ CONCEPTUAL GRADING & DRAINAGE PLAN
☐ GRADING PLAN
☐ EROSION CONTROL PLAN
☒ ENGINEER'S CERTIFICATION
☐ OTHER

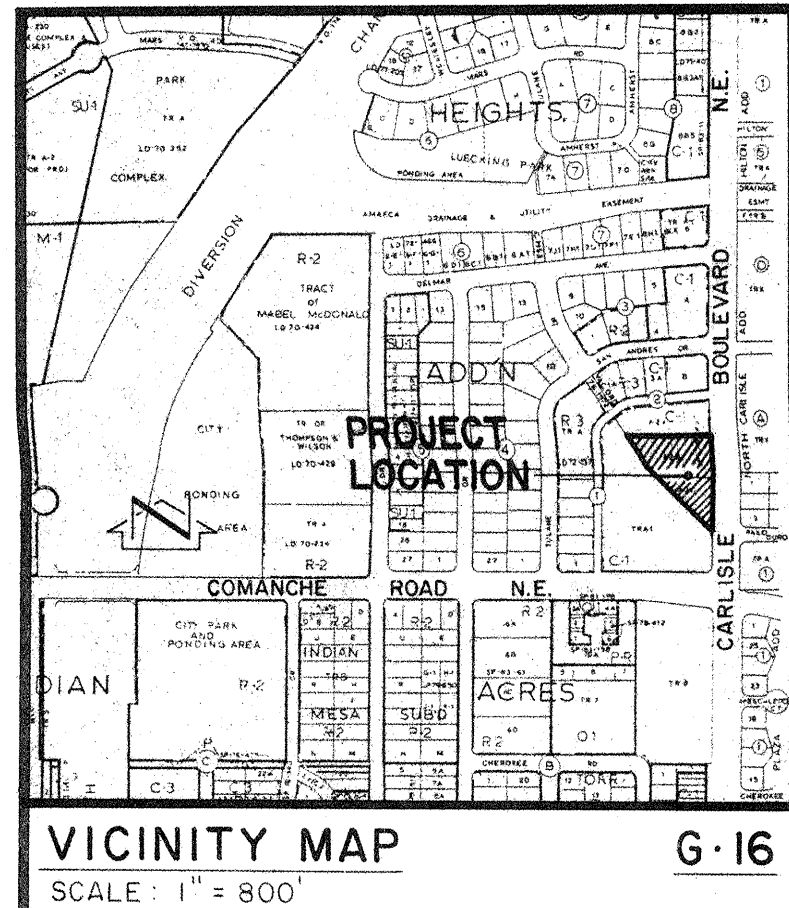
PRE-DESIGN MEETING:

- ☐ 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
☒ CERTIFICATE OF OCCUPANCY APPROVAL
☐ GRADING PERMIT APPROVAL
☐ PAVING PERMIT APPROVAL
☐ S.A.D. DRAINAGE REPORT
☐ DRAINAGE REQUIREMENTS
☐ OTHER _____ (SPECIFY)

DATE SUBMITTED: 02-17-93BY: JEFFREY G. MORTENSEN



- LEGEND**
- EXISTING CONTOUR
 - PROPOSED CONTOUR
 - EXISTING SPOT ELEVATION
 - PROPOSED SPOT ELEVATION
 - EXISTING CHAINLINK FENCE
 - PROPOSED ASPHALT
 - PROPOSED CONCRETE
 - WATER BLOCK
 - SWALE
 - AS-BUILT ELEVATION

PROJECT BENCHMARK
A STANDARD 4x6 BRASS TABLET, STAMPED "7-11-1993" LOCATED @ THE INTERSECTION OF CARLISLE BLVD N.E. & COMANCHE RD N.E. APPROXIMATELY 10' NORTH OF THE S.E. CORNER OF COMANCHE RD N.E. ELEVATION = 5122.99 ± (M.S.L.D.)

T.B.M.
TOP OF CONCRETE CURB @ THE NORTHEAST CORNER OF LOT 15 (M.S.L.D.) ELEVATION = 5122.99 ± (M.S.L.D.)

LEGAL DESCRIPTION
MONTGOMERY HEIGHTS

APPROVALS	NAME	DATE
A.C.E./DESIGN		
INSPECTOR		
A.C.E./FIELD		

DRAINAGE PLAN

The following items concerning the Lovelace-Carlisle Clinic Drainage Plan are contained herein:

- Vicinity Map
- Grading Plan
- Calculations

As shown by the Vicinity Map, this site is located on the west side of Carlisle Boulevard N.E. just north of its intersection with Comanche Road N.E. At present, the site is undeveloped. The adjoining site to the south is developed as the KOAT-TV Station, and the site to the north is also developed.

As shown by Plate G-16 of the Albuquerque Master Drainage Study, this site lies partly within a designated Flood Hazard Zone. Appendix C, Page 3-C-4 indicates a 100-year peak discharge of 486 cfs. of this total flow, 236 cfs. is conveyed overland through the flood plain delineated on Plate G-16. In addition, there is an existing 30' wide public drainage easement centered about the southerly boundary of the site. Within this easement lies a 66" RCP public storm drain. It is proposed by this plan to construct a private drainage channel within the westerly half of the easement to accept and convey the overflow runoff from Carlisle Boulevard N.E. This will be a privately constructed, privately maintained system. Because of this, it will be constructed by the Special Order 19 Process and a "Private Drainage Facilities Conversion into a Public Facility by Virtue of the fact that the sidewalks will be constructed per City of Albuquerque Standard Drawing. The lining of the channel will be 24" asphalt concrete paving in order to provide an economical, stable channel lining. Rip-rap is being provided at the outfall of this channel to provide a suitable transition from a portion of this site and the KOAT-TV site from the existing flood plain as mapped and confine the flooding to the easement along the length of the channel.

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) the existing public drainage easement. As shown by this plan, the site naturally drains from east to west toward the existing public drainage easement. This means that there is no means by which the runoff from the site can enter the existing public storm drain. In the proposed scheme of grading, the site will continue to drain from east to west, however, the developed runoff will be collected by a single "W" catch basin which will drain via a 12" PVC drain line into an existing manhole. This connection is appropriate due to the fact that this site is located at the bottom of the watershed and the peak runoff from the site will enter this system prior to the occurrence of the peak discharge of the watershed.

The Calculations which appear herein analyze both the existing and developed conditions for the 100-year, 6-hour rainfall event. The Rational Method has been used to quantify the peak rate of discharge and the SCS Method has been used to quantify the volume of runoff. Both methods have been used in accordance with the City of Albuquerque Development Process Manual, Volume II and the Mayor's Emergency Rule adopted January 14, 1986. The capacity of the private drainage channel has been analyzed using the Weir Equation at the entrance and the Manning Equation for flows within the channel itself. The rip-rap design is based upon guidelines endorsed by NMAA and provided by that office. The capacity of the 12" PVC drain line has been determined using Field's Hydraulics Calculator for Gravity Flow in Pipes, which is based upon the application of the Manning's Equation.

There are no offsite flows affecting this site with the exception of the overflow runoff from Carlisle Boulevard N.E. Offsite flows are not anticipated from the north because the topography of that site parallels the project site and there is an existing curb situated along the common lot line which blocks offsite flows. Offsite flows are not anticipated from the KOAT-TV site because its topography is also parallel to the subject site and it has been approved to route all developed runoff internally to onsite ponds per the approved drainage plan for that site prepared by Boyle Engineering. Lastly, the free discharge of runoff from this site is appropriate due to the proximity of this site at the bottom of the watershed and the availability of the 66" RCP storm drain adjacent to this site.

NO.	DATE	BY	REVISIONS
02/93	JGM		AS-BUILT & CERTIFY BUILDING ADDITION
11/92	JGM		REVISE PARKING LOT & CARLISLE ENTRANCE
9/86	JGM		ADD S.O. #19 NOTES
10/86	JGM		DELETE ROOF DRAINS, ADD EASEMENT, ADD CONCRETE TROUGH
6/92	JGM		UPDATE FOR BUILDING ADDITION

DESIGNED BY: JGM
DRAWN BY: LBJ
APPROVED: JGM

JOB NO.: 50907
DATE: 6-92

07-01-86
09-11-86
10-29-86
06-29-92
11-25-92

GRADING & DRAINAGE PLAN
LOVELACE - CARLISLE CLINIC

FILE NO.

SHEET 1 OF 2

