HYDROLOGY K16/D23 ONE PLAN

K 16 - D 23

1 PLAN

DRAINAGE INFORMATION SHEET

PROJECT TITLE: Taco-Bell Site M-80. ZONE ATLAS/DRNG. FILE #: K-16 / D23

LEGAL DESCRIPTION: Lot 2A, Block 12, Monte Vista Addition

CITY ADDRESS: 2901 Monte Vista Blvd. N.E.

ENGINEERING FIRM: Lovelady & Associates CONTACT: Frank Lovelady

ADDRESS: 7408 Morrow Rd. N.E. 87110 PHONE: 883-7973

OWNER: ALVARADO CONSTRUCTION CONTACT: ROBERT ALVARADO

ADDRESS: 1266 Santa Fe Drive, Denver Co. 80204 PHONE: 303-629-0783

ARCHITECT: Rick Bennett, CONTACT: Rick Bennett

ADDRESS: 1118 Park SW PHONE: 842-1859

SURVEYOR: ALPHA SURVEYING CONTACT: GARY GRITSKO

ADDRESS: 623 Amherst Dr. PHONE: 265-5538

CONTRACTOR: ALVARADO CONST CONTACT:

ADDRESS: PHONE:

RECEIVED OCT 06 1986 HYDROLOGY SECTION

PRE-DESIGN MEETING:

X YES

___ NO

✓ COPY OF CONFERENCE RECAP SHEET PROVIDED W/ORIGINAL SUBMITTAL

DRB NO. ___

EPC NO. ___

PROJ. NO. ___

TYPE OF SUBMITTAL:

___ DRAINAGE REPORT

X DRAINAGE PLAN

___ CONCEPTUAL GRADING & DRAINAGE PLAN

___ GRADING PLAN

___ EROSION CONTROL PLAN

___ ENGINEER'S CERTIFICATION

X Revision – Revised Grading around building and drive-thru and addition of curb & Ret. Wall Section

CHECK TYPE OF APPROVAL SOUGHT:

___ SKETCH PLAT APPROVAL

___ PRELIMINARY PLAT APPROVAL

___ SITE DEVELOPMENT PLAN APPROVAL

___ FINAL PLAT APPROVAL

___ BUILDING PERMIT APPROVAL

___ FOUNDATION PERMIT APPROVAL

___ CERTIFICATE OF OCCUPANCY APPROVAL

___ ROUGH GRADING PERMIT APPROVAL

___ GRADING/PAVING PERMIT APPROVAL

___ OTHER ___ (SPECIFY)

DATE SUBMITTED: Frank Lovelady 10-6-86

BY: ___

FILE COPY

City of Albuquerque

P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

HYDROLOGY SECTION
123 Central NW, Albuquerque, NM 87102
(505) 766-7644

September 15, 1986

Frank Lovelady, P.E.
Lovelady & Associates
7408 Morrow Road, NE
Albuquerque, New Mexico 87110

RE: REVISED DRAINAGE PLAN FOR TACO BELL SITE M-80
(K-16/D23) ENGINEERS STAMP DATED SEPTEMBER 11, 1986

Dear Frank:

Based on the information provided on your resubmittal of September 11, 1986, the above referenced drainage plan is approved for Building Permit.

Please attach a copy of this approved plan to the construction plans prior to sign-off by the Hydrology Section.

If I can be of further assistance, please feel free to call me at 766-7644.

Cordially,

Bernie J. Montoya

Bernie J. Montoya, C.E.
Engineering Assistant

BJM/bsj

DRAINAGE INFORMATION SHEET

PROJECT TITLE: TACO BELL SITE M-80 ZONE ATLAS/DRNG. FILE #: K-16/D23

LEGAL DESCRIPTION: LOT 2A, BLOCK 12, MONTE VISTA ADDITION

CITY ADDRESS: 2901 MONTE VISTA BOULEVARD, N.E.

ENGINEERING FIRM: LOVELADY & ASSOCIATES CONTACT: FRANK LOVELADY

ADDRESS: 7408 MORROW ROAD, N.E. 87110 PHONE: 883-7973

OWNER: ROBERT ALVARADO(ALVARADO CONST.) CONTACT: ROBERT ALVARADO

ADDRESS: 1266 SANTA FE DRIVE, DENVER CO. 80204 PHONE: 303-629-0783

ARCHITECT: RICK BENNETT, ARCHITECT CONTACT: RICK BENNETT

ADDRESS: 3803 RIVER VIEW PLACE, N.W. PHONE: 831-3950

SURVEYOR: ALPHA SURVEYING GROUP CONTACT: GARY GRITSKO

ADDRESS: 623 AMHERST DRIVE N.E. PHONE: 265-5536

CONTRACTOR: ALVARADO CONSTRUCTION CONTACT: ROBERT ALVARADO

ADDRESS: 1266 SANTA FE DRIVE, DENVER CO. 80204 PHONE: 303 - 629-0783

PRE-DESIGN MEETING:

X YES

___ NO

X COPY OF CONFERENCE RECAP SHEET PROVIDED

RECEIVED SEP 11 1986 HYDROLOGY SECTION

DRB NO. _____

EPC NO. _____

PROJ. NO. _____

TYPE OF SUBMITTAL:

___ DRAINAGE REPORT

X DRAINAGE PLAN (REVISED 9-11-86)

___ CONCEPTUAL GRADING & DRAINAGE PLAN

___ GRADING PLAN

___ EROSION CONTROL PLAN

___ ENGINEER'S CERTIFICATION

CHECK TYPE OF APPROVAL SOUGHT:

___ SKETCH PLAT APPROVAL

___ PRELIMINARY PLAT APPROVAL

___ SITE DEVELOPMENT PLAN APPROVAL

___ FINAL PLAT APPROVAL

X BUILDING PERMIT APPROVAL

___ FOUNDATION PERMIT APPROVAL

___ CERTIFICATE OF OCCUPANCY APPROVAL

___ ROUGH GRADING PERMIT APPROVAL

___ GRADING/PAVING PERMIT APPROVAL

___ OTHER _____ (SPECIFY)

DATE SUBMITTED: ~~JULY 24, 1986~~ August 11, 1986

BY: Frank D. Lovelady

FRANK D. LOVELADY, P.E.

DRAINAGE INFORMATION SHEET

PROJECT TITLE: PROPOSED TACO BELL SITE M-80 ZONE ATLAS/DRNG. FILE #: K-16/D23

LEGAL DESCRIPTION: LOT 2A BLOCK 12 MONTE VISTA ADDITION.

CITY ADDRESS: 2901 MONTE VISTA BLVD NE

ENGINEERING FIRM: LOVELADY & ASSOCIATES CONTACT: FRANK LOVELADY.

ADDRESS: 7408 TOMORROW RD NE PHONE: 883-7973

OWNER: Robert Alvarado CONTACT: Robert Alvarado

ADDRESS: PHONE:

ARCHITECT: Rick Bennett CONTACT: Rick Bennett

ADDRESS: 1118 Park SW. PHONE:

SURVEYOR: ALPHA SURVEYING CONTACT:

ADDRESS: PHONE:

CONTRACTOR: ALVARADO CONST CONTACT:

ADDRESS: PHONE:

RECEIVED SEP 03 1986 HYDROLOGY SECTION

PRE-DESIGN MEETING:

___ YES

___ NO

___ COPY OF CONFERENCE RECAP SHEET PROVIDED

DRB NO. ___

EPC NO. ___

PROJ. NO. ___

TYPE OF SUBMITTAL:

___ DRAINAGE REPORT

✓ DRAINAGE PLAN

___ CONCEPTUAL GRADING & DRAINAGE PLAN

___ GRADING PLAN

___ EROSION CONTROL PLAN

___ ENGINEER'S CERTIFICATION

✓ REVISED DRAINAGE PLAN

CHECK TYPE OF APPROVAL SOUGHT:

___ SKETCH PLAT APPROVAL

___ PRELIMINARY PLAT APPROVAL

___ SITE DEVELOPMENT PLAN APPROVAL

___ FINAL PLAT APPROVAL

X BUILDING PERMIT APPROVAL

___ FOUNDATION PERMIT APPROVAL

___ CERTIFICATE OF OCCUPANCY APPROVAL

___ ROUGH GRADING PERMIT APPROVAL

___ GRADING/PAVING PERMIT APPROVAL

___ OTHER ___ (SPECIFY)

DATE SUBMITTED: Sept 3, 1986

BY: Frank D. Lovelady

FILE COPY

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

HYDROLOGY SECTION
123 Central NW, Albuquerque, NM 87102
(505) 766-7644

July 29, 1986

Frank Lovelady
Lovelady & Associates
7408 Morrow Road, NE
Albuquerque, New Mexico 87110

RE: DRAINAGE PLAN FOR TACO BELL SITE M-80
(K-16/D23) ENGINEER'S STAMP DATED JULY 28, 1986

Dear Frank:

Based on the information provided on your submittal of July 28, 1986, the referenced drainage plan is approved for building permit.

Please attach a copy of the approved plan to the construction sets before Hydrology sign-off.

If I can be of further assistance, please call me at 766-7644.

Cordially,

Bernie J. Montoya

Bernie J. Montoya, C.E.
Engineering Assistant

BJM/bsj

CITY OF ALBUQUERQUE
MUNICIPAL DEVELOPMENT DEPARTMENT
ENGINEERING DIVISION/DESIGN HYDROLOGY SECTION

CONFERENCE RECAP

DRAINAGE FILE/ZONE ATLAS PAGE NO.: K-16 DATE: 7/17/86 @ 4:00

PLANNING DIVISION NOS: EPC: _____ DRB: _____

SUBJECT: Texco Bell Bldg M-80

STREET ADDRESS (IF KNOWN): _____

SUBDIVISION NAME: Lot 2-A, Lot 12 Monte Vista Addn

APPROVAL REQUESTED:

____	PRELIMINARY PLAT	____	FINAL PLAT
____	SITE DEVELOPMENT PLAN	X	BUILDING PERMIT
____	OTHER	____	ROUGH GRADING

	WHO	REPRESENTING
ATTENDANCE:	Frank Lovelady	Lovelady & Assoc.
	Carlos Montoya	Hydrology Section

FINDINGS:

(1) Drainage plan per DPM

(2) Free discharge engineer must address
(A) Building over impoundment area
(B) minimum impact on downstream facilities
(C) Not in a flood zone

(3) Need to accept off-site flows if applicable

The undersigned agrees that the above findings are summarized accurately and are only subject to change if further investigation reveals that they are not reasonable or that they are based on inaccurate information.

SIGNED: Carlos A Montoya SIGNED: Frank D Lovelady

TITLE: _____ TITLE: _____

DATE: 7-17-86 DATE: 7-17-86

NOTE PLEASE PROVIDE A COPY OF THIS RECAP WITH THE DRAINAGE SUBMITTAL

CITY OF ALBUQUERQUE
MUNICIPAL DEVELOPMENT DEPARTMENT
ENGINEERING DIVISION/DESIGN HYDROLOGY SECTION

CONFERENCE RECAP

DRAINAGE FILE/ZONE ATLAS PAGE NO.: K-16 DATE: 7/17/86 @ 9:00

PLANNING DIVISION NOS: EPC: _____ DRB: _____

SUBJECT: Taco Bell Bldg M-80

STREET ADDRESS (IF KNOWN): _____

SUBDIVISION NAME: Lot 2-A, Lot 12 Monte Vista Addn

APPROVAL REQUESTED:

____ PRELIMINARY PLAT	____ FINAL PLAT
____ SITE DEVELOPMENT PLAN	X BUILDING PERMIT
____ OTHER	____ ROUGH GRADING

	WHO	REPRESENTING
ATTENDANCE:	Frank Lovelady	Lovelady & Assoc
	Carlos Montoya	Hydrology Section

FINDINGS:

(1) Drainage plan per DPM

(2) Excess discharge engineer must address
(A) Building over upstream area
(B) minimum impact on downstream facilities
(C) Not in a flood zone

(3) Need to accept off-site flows if applicable

The undersigned agrees that the above findings are summarized accurately and are only subject to change if further investigation reveals that they are not reasonable or that they are based on inaccurate information.

SIGNED: Carlos A Montoya SIGNED: Frank O Lovelady

TITLE: _____ TITLE: _____

DATE: 7-17-86 DATE: 7-17-86

NOTE PLEASE PROVIDE A COPY OF THIS RECAP WITH THE DRAINAGE SUBMITTAL

GRADING AND DRAINAGE PLAN

AND

SUPPLEMENTAL INFORMATION

FOR

PROPOSED TACO BELL SITE M-80

2901 MONTE VISTA BOULEVARD, N.E.

ALBUQUERQUE, NEW MEXICO

ZONE ATLAS NO. K-16 / D23

LOVELADY & ASSOCIATES

JULY 24, 1986

RECEIVED
JUL 28 1986
HYDROLOGY SECTION

DRAINAGE INFORMATION SHEET

PROJECT TITLE: TACO BELL SITE M-80 ZONE ATLAS/DRNG. FILE #: K-16

LEGAL DESCRIPTION: LOT 2A, BLOCK 12, MONTE VISTA ADDITION

CITY ADDRESS: 2901 MONTE VISTA BOULEVARD, N.E.

ENGINEERING FIRM: LOVELADY & ASSOCIATES CONTACT: FRANK LOVELADY

ADDRESS: 7408 MORROW ROAD, N.E. 87110 PHONE: 883-7973

OWNER: ROBERT ALVARADO(ALVARADO CONST.) CONTACT: ROBERT ALVARADO

ADDRESS: 1266 SANTA FE DRIVE, DENVER CO. 80204 PHONE: 303-629-0783

ARCHITECT: RICK BENNETT, ARCHITECT CONTACT: RICK BENNETT

ADDRESS: 3803 RIVER VIEW PLACE, N.W. PHONE: 831-3950

SURVEYOR: ALPHA SURVEYING GROUP CONTACT: GARY GRITSKO

ADDRESS: 623 AMHERST DRIVE N.E. PHONE: 265-5538

CONTRACTOR: ALVARADO CONSTRUCTION CONTACT: ROBERT ALVARADO

ADDRESS: 1266 SANTA FE DRIVE, DENVER CO. 80204 PHONE: 303 - 629-0783

PRE-DESIGN MEETING:

X YES

___ NO

X COPY OF CONFERENCE RECAP SHEET PROVIDED

RECEIVED JUL 28 1986 HYDROLOGY SECTION

DRB NO. 86 440 7/15/86

EPC NO. ___

PROJ. NO. ___

TYPE OF SUBMITTAL:

___ DRAINAGE REPORT

X DRAINAGE PLAN

___ CONCEPTUAL GRADING & DRAINAGE PLAN

___ GRADING PLAN

___ EROSION CONTROL PLAN

___ ENGINEER'S CERTIFICATION

CHECK TYPE OF APPROVAL SOUGHT:

___ SKETCH PLAT APPROVAL

___ PRELIMINARY PLAT APPROVAL

___ SITE DEVELOPMENT PLAN APPROVAL

___ FINAL PLAT APPROVAL

X BUILDING PERMIT APPROVAL

___ FOUNDATION PERMIT APPROVAL

___ CERTIFICATE OF OCCUPANCY APPROVAL

___ ROUGH GRADING PERMIT APPROVAL

___ GRADING/PAVING PERMIT APPROVAL

___ OTHER ___ (SPECIFY)

DATE SUBMITTED: JULY 24, 1986

BY: Frank D. Lovelady

FRANK D. LOVELADY, P.E.

CITY OF ALBUQUERQUE
MUNICIPAL DEVELOPMENT DEPARTMENT
ENGINEERING DIVISION/DESIGN HYDROLOGY SECTION

CONFERENCE RECAP

DRAINAGE FILE/ZONE ATLAS PAGE NO.: K-16 DATE: 7/17/86 @ 9:00

PLANNING DIVISION NOS: EPC: _____ DRB: _____

SUBJECT: Taco Bell Bldg M-80

STREET ADDRESS (IF KNOWN): _____

SUBDIVISION NAME: Lot 2-A, Lot 12 Monte Vista Addn

APPROVAL REQUESTED:

____ PRELIMINARY PLAT	____ FINAL PLAT
____ SITE DEVELOPMENT PLAN	X BUILDING PERMIT
____ OTHER	____ ROUGH GRADING

	WHO	REPRESENTING
ATTENDANCE:	Frank Lovelady	Lovelady & Assoc.
	Carlos Montoya	Hydrology Section

FINDINGS:

(1) Drainage plan per DPM

(2) Faces discharge engineer must address
(A) Building over impervious area
(B) minimum impact on downstream facilities
(C) Not in a flood zone

(3) Need to accept off-site flows if applicable

The undersigned agrees that the above findings are summarized accurately and are only subject to change if further investigation reveals that they are not reasonable or that they are based on inaccurate information.

SIGNED: Carlos A Montoya SIGNED: Frank D Lovelady

TITLE: _____ TITLE: _____

DATE: 7-17-86 DATE: 7-17-86

* NOTE * PLEASE PROVIDE A COPY OF THIS RECAP WITH THE DRAINAGE SUBMITTAL

DRAINAGE REPORT AND DRAINAGE PLAN CHECKLIST
(Abbreviated)

I. GENERAL INFORMATION

- ✓ 1. Information sheet
- N/A 2. Planning history
  - N/A a. P&Z action
  - N/A b. Relation to approved M.P.
- 3. Site Description
  - ✓ a. Vicinity map
  - ✓ b. Zone atlas number
  - ✓ c. Legal Description, or
  - ✓ d. Current Plat
- 4. Bench mark
  - ✓ a. A.C.S. vertical datum
  - ✓ b. T.B.M. on site
- 5. Flood hazard map
- N/A 6. Watershed soils
- 7. Soils report
  - N/A a. Pond<15' from exist. structure
  - N/A b. Pond<15' from new structure
  - N/A c. Pond<15' from P.L., less setback
  - N/A d. Ponds<18" deep 10' from pvm't.
  - N/A e. Ponds>18" deep 15' from pvm't.
- ✓ 8. Drainage report or plan

II. PLAN DRAWINGS

- 1. Professional Certification
  - ✓ a. Engineer's stamp
  - ✓ b. Engineer's signature
  - ✓ c. Date
  - N/A d. Revision date (when applicable)
- 2. Drafting standards
  - ✓ a. North arrow
  - b. scales
    - 1"=20' < 5 acres
    - N/A 1"=50' ≥ 5 acres
  - ✓ c. Legend
  - ✓ d. Drawing size 24"x36"
  - e. notes
- ✓ Property line
- ✓ Asphalt paving
- ✓ Sidewalks
- ✓ Planting areas
- N/A Ponding areas
- Other features

III. EXISTING CONDITIONS

- A. On-site
- 1. Existing Contours
  - ✓ a. 1' interval < 1%
  - N/A b. 2' interval 1%-5%
  - N/A c. 5' interval > 5%
- ✓ 2. Spot Elevations
- 3. Contours & spot elevations
  - ✓ a. A min of 25' beyond P.L.
- 4. Existing structures
  - ✓ a. Buildings
  - ✓ b. Retaining & garden walls
  - ✓ c. Min. 25' beyond P.L.
- N/A 5. Identify drainage facilities
  - N/A a. On-site
  - N/A b. On adjacent property
- N/A 6. Pertinent elev. for 4 & 5 above.
  - ✓ a. Finished floor (MSL)
  - N/A b. Invert, grate, etc.(MSL)
- ✓ 7. All existing easements
  - a. Dimensions
  - b. Purpose
- 8. Existing curb elevations (MSL)
  - ✓ a. Top of curb
  - ✓ b. Flow line
- 9. Flow quantities
  - ✓ a. Undeveloped rate
  - ✓ b. Undeveloped volume
  - ✓ c. Developed rate
  - ✓ d. Developed volume
- 10. Flow characteristics
  - N/A a. Flow depth
  - N/A b. Flow velocity
  - N/A c. Locations of A & B
- B. Off-site N/A NO OFF-SITE FLOW
- 1. Delineation of W.S. on...
  - a. 1" = 200' orthotopo, or
  - b. 1" = 500' Floodway map
- 2. Off-site flow quantities
  - N/A a. 10-year flow rate
  - b. 100-year flow rate
- 3. Off-site flow description
  - a. Flow depth
  - b. Flow velocity
  - c. Locations of a. & b.
- 4. Other conditions
- 5. Existing Easements & R.O.W.

IV. PROPOSED CONDITIONS

- A. On- Site
- 1. Define Req'd. Drain. Fac.
  - N/A a. Pond Vol. Calculations
  - N/A b. Pond positive discharge
  - N/A c. Pond emergency spillway
  - N/A d. Pond fencing (> 18"deep)
  - N/A e. Pond landscaping
  - N/A f. Pond maintenance
  - N/A g. Channel depths & Velocities
  - N/A h. Storm sewer capacities/HGL
  - N/A i. Other facilities(AMAFCA)
- 2. Proposed Contours
  - ✓ a. 1' interval < 1%
  - N/A b. 2' interval 1%-5%
  - N/A c. 5' interval U 5%
- 3. Proposed Esm'ts & R.O.W.
  - N/A a. Dimensions
  - N/A b. Purpose
- 4. Dedicated unpaved R.O.W.
  - N/A a. Alley grades
  - N/A b. Street grades
- 5. Drainage Areas Outlined
- 6. Flow lines
  - ✓ a. Sheet flow
  - b. Concentrated flow
  - c. Spot elevations
- N/A 7. Pond(s) 100-year H.W.L.
- ✓ 8. Building fin. flr. elev
- 9. Slope limitations
  - N/A a. < 3' - 2:1 max.
  - N/A b. > 3' 3:1 max.
- 10. Elevations at Prop. Lines
  - ✓ a. Above adjacent top of curb
  - ✓ b. Ret. Walls, Grades > 18"
- N/A 11. Details of Drainage Fac.
- ✓ 12. Erosion Control Plan
- ✓ 13. City Drive Pads
  - a. Spot elevations
- N/A 14. S.O. 19
- N/A 15. R.O.W./Esmt. for above
- N/A 16. Nuisance waters
- B. Off-site
- 1. Off-site drain. fac.
  - N/A a. Definition
  - N/A b. Locations
  - c. Configuration
- ✓ 2. Verify Downstream Cond.
- N/A 3. Rights-of-way

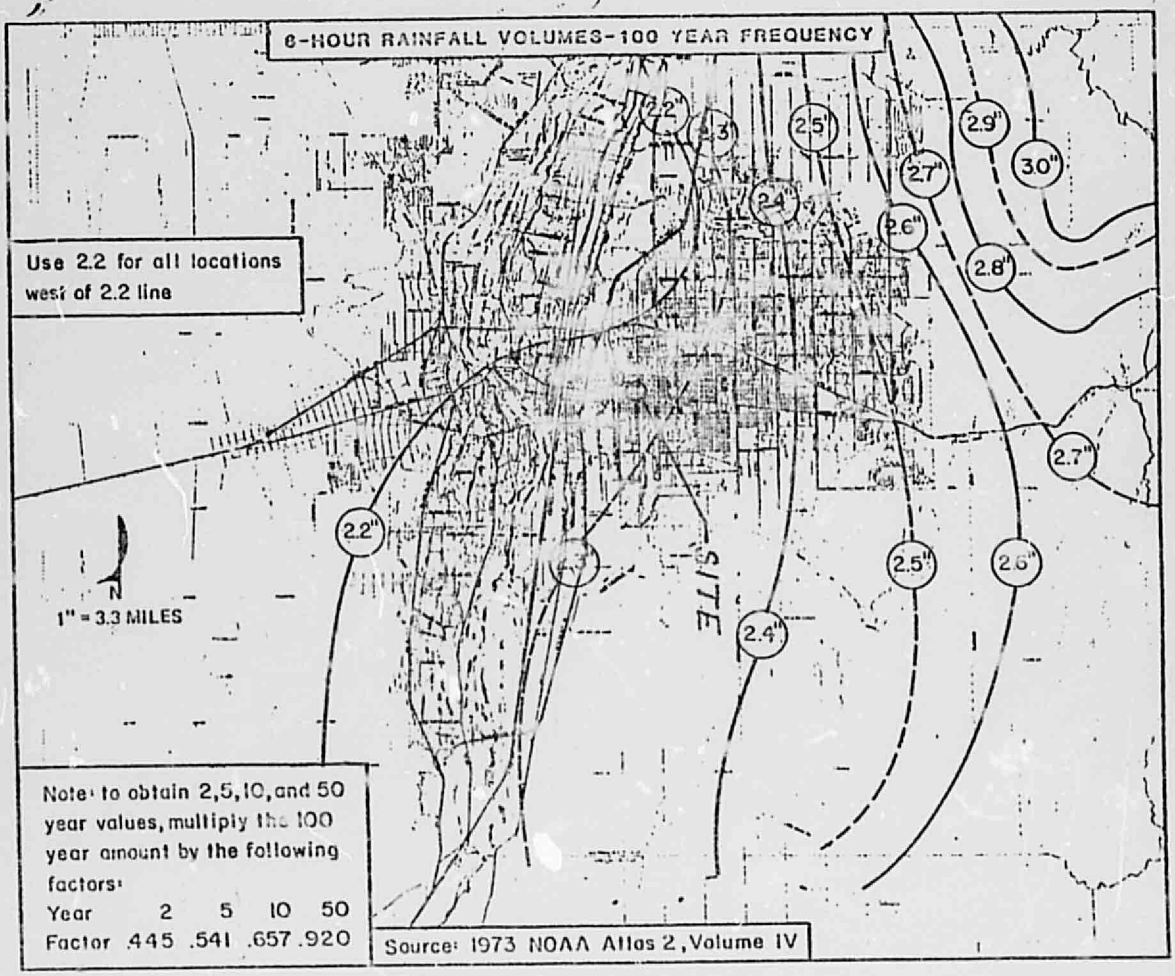

6-HOUR RAINFALL VOLUMES-100 YEAR FREQUENCY
Use 2.2 for all locations west of 2.2 line
2.2"
2.3
2.5"
2.9"
2.7"
3.0"
2.4"
2.6"
2.8"
2.7"
2.2"
2.5"
2.6"
2.4"
SITE
N
1" = 3.3 MILES
Note: to obtain 2,5,10, and 50 year values, multiply the 100 year amount by the following factors:
Year 2 5 10 50
Factor .445 .541 .657 .920
Source: 1973 NOAA Atlas 2, Volume IV

PLATE 22.2 D-1

③

C-339

CONTROL STATION DATA

City of Albuquerque, New Mexico
Public Works Department
Engineering Division

Name of Station 5-K16 State N.Mex. Co. Bern.

Establishing Agency ACS Year 1974 Chief of Party S. Trujillo

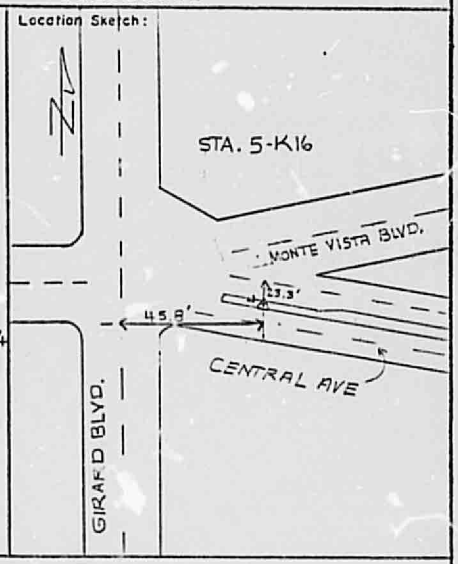
Section Township Range Map No. K16

Description:
Station is located 2.1 mi. east from downtown Albuq. at the trisection of Central Ave., Monte Vista Blvd. and Girard Blvd. on the SE median of the trisection.

Station is 45.8 ft. east of centerline on Girard Blvd. and 23.3 ft. south of centerline of the westbound lane on Central Ave.

Station is a standard ACS brass disk set in a concrete cyclinder in the ground. Station is stamped "5-K16,1974 ACS".

Location Sketch:



HORIZONTAL DATA

FIELD METHOD: ☒ Traverse ☐ Triangulation ☐ Trilateration

GEOGRAPHIC POSITION (NAD 1927) 2nd -order

Latitude 35° 04' 51.25257" Longitude 106° 36' 45.99971"

PLANE COORDINATES Projection TM State NM Zone Central

X 391,545.78 Y 1,484,889.00 Ground-to-Grid Factor 0.29966513

ELEVATION DATA

SPIRIT LEVEL ELEVATION (SLD 1929) Feet 5192.138 Meters 1582.567 1st Order

TRIGONOMETRIC ELEVATION Feet Meters

AZIMUTH DATA

O (or ΔO) Angle -0° 12' 30"

Station	Grid Azimuth ° ' "	Geodetic Azimuth ° ' "	DISTANCE Feet	Meters
6-K17A	278 06 11		1464.512	446.384