HYDROLOGY ○ G16/D25 ○ 5 PLANS

G 16/D 25

5 PLANS

City of Albuquerque

P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

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

January 24, 1985

Mr. Richard Hall
Hall Engineering Company, Inc.
337 Zubank NE, Suite 103
Albuquerque, NM 87123

REF: ADDITION TO KELLY'S REFINISHING (G16-D25) ENGINEER STAMP DATED JANUARY 12, 1985

Dear Mr. Hall:

Based on the information provided on your January 12, 1985 submittal, the above referenced drainage plan is approved.

If you have any questions or comments, please feel free to call me at 766-7644.

Sincerely yours,

Billy J. Goolsby

Billy J. Goolsby, PE
Civil Engineer/Hydrology

BJG:BJM:mrk

INFORMATION SHEET

PROJECT TITLE Kelly's Refinishing TYPE OF SUBMITTAL Drainage Plan

ZONE ATLAS PAGE NO. G-16/D25 CITY ADDRESS 3216 Vassar, Albuquerque, Nm

LEGAL DESCRIPTION Parcel 9, Tract J, Coles Industrial Subdivision #2

ENGINEERING FIRM Hall Engineering Co., INc. CONTACT Richard Hall

ADDRESS 337 Eubank N.E. #103, 87123 PHONE 292-1115

OWNER Kelly's Refinishing CONTACT Jerry Kelly

ADDRESS 3216 Vassar NE, PHONE 884-1250

ARCHITECT Ken Hovey Designs CONTACT Ken Hovey

ADDRESS 3700 Sims SE, 87106 PHONE 255-9400

SURVEYOR Hall Engineering CONTACT Richard Hall

ADDRESS 337 Eubank #103 NE, 87123 PHONE 292-1115

CONTRACTOR N/A CONTACT

ADDRESS PHONE

PRE-DESIGN MEETING:

___ YE
X NO
___ COPY OF CONFERENCE RECAP SHEET PROVIDED

PLEASE CHECK TYPE OF APPROVAL EXPECTED WITH THIS SUBMITTAL:

___ SKETCH PLAT APPROVAL
___ PRELIMINARY PLAT APPROVAL
___ SITE DEVELOPMENT PLAN APPROVAL
___ FINAL PLAT APPROVAL
X BUILDING PERMIT APPROVAL
___ CERTIFICATE OF OCCUPANCY APPROVAL
___ ROUGH GRADING PERMIT APPROVAL
___ GRADING/PAVING PERMIT APPROVAL
___ OTHER _____ (SPECIFY)

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JAN 14 1985
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DATE SUBMITTED: 1/14/85

BY: Richard Hall

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

G16 - D25

December 23, 1981

Mr. Jake Bordenave
Adams, Hamlyn, Anderson
4055 Montgomery N.E.
Albuquerque, NM 87109

RE: KELLY'S REFINISHING DRAINAGE REPORT - WAREHOUSE ADDITION AT 3216 VASSAR

Dear Jake:

The referenced drainage report is approved based on your submittal of December 22, 1981. Please see that the revised plans are placed in the construction sets.

Very truly yours,

BGB

Brian G. Burnett
Civil Engineer/Hydrology

BGB/tsl

cc: Jerry Kelly
Ken Hovey

Drainage Report For:
Kelly's Refinishing shop
3216 Vassar N.E.
Albuquerque, New Mexico

LOCATION & LEGAL DESCRIPTION:

The contract property is located on the east side of Vassar Rd. just north of the intersection of Vassar Rd. & Candelaria Rd. N.E. It is 0.3 ± acres in area. This lot is more particularly described as parcel 9, tract J, Coles Industrial Subdivision #2, Albuquerque, New Mexico.

SOILS SURVEY:

Wink-Embudo Complex - 65% wink fine sandy loam & 25% Embudo gravelly fine sandy loam. Runoff is medium; Hazard of water erosion is moderate. Soil is alkaline.

PROPOSED DEVELOPMENT & DRAINAGE PLANS:

A new 1000 sq. ft. addition will be made to the existing 2750 sq. ft. facility. No additional paving will be required for the new building.

There is an existing pond. Runoff from the existing development is distributed as follows:

770 cubic feet of water is allowed to drain onto Vassar Rd; the balance is directed to a retention pond at the rear North-East Quadrant of the property.

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The runoff generated by the new building will be directed to the existing pond. The existing pond will be upgraded, and the existing grading reworked to insure positive flow to the pond at a 1% average gradient.

METHOD:

The amount of stormwater is calculated using a 50-year six hour precepitation factor of 2.2 inches.

The volume of flow is calculated using a runoff factor of 0.4 for pervious surfaces and a runoff factor of 0.9 for impervious surfaces.

Store 2 year storm in rock storage. The volume of rock storage is calculated using a 1" precipitation factor.

OFFSITE FLOWS:

THERE ARE NO OFFSITE FLOWS

STORMWATER CALCULATIONS:

RUNOFF BEFORE DEVELOPMENT:

75' x 175' x 2.2 | 12 x 0.9 = 962 CU.FT. = 962 CU.FT.
OF WATER MAX. ALLOWABLE WATER
TO STREET.

RUNOFF AFTER DEVELOPMENT:

AREA "A"

IMPERVIOUS SURFACES:
5235 SQ.FT. x 2.2 | 12 x 0.9 = 864 CU.FT.

PERVIOUS SURFACES:
266 SQ.FT. x 2.2 | 12 x 0.4 = 20 CU.FT

TOTAL AREA "A" = 884 CU.FT.
884 CU.FT. OF RUNOFF TO
STREET; WITHIN ALLOWABLE LIMITS.

AREA "B"

IMPERVIOUS SURFACES:
3173 SQ.FT. x 2.2 | 12 x 0.9 = 524 CU.FT.

PERVIOUS SURFACES:
5139 SQ FT x 2.2 | 12 x 0.4 = 377 CU.FT.
= 911 CU.FT.

TOTAL AREA "B" = 911 CU.FT.
911 CU.FT. TO BE RETAINED IN ROAD.
OF THIS 911 CU.FT, A ROCK STORAGE VOLUME
EQUAL TO A 2-YEAR STORM W/ A PRECIP-
ITATION FACTOR OF 1" IS ALLOWED.

ROCK STORAGE CALCULATIONS:

IMPERVIOUS SURFACES:
3173 SQ.FT. x 1.0 | 12 x 0.9 = 238 CU.FT

PERVIOUS SURFACES:
5139 SQ.FT x 1.0 | 12 x 0.4 = 171 CU.FT.

AREA "B" - TOTAL CU. FT. TO BE RETAINED IN ROCK STORAGE: 238 CU. FT

+ 171 CU. FT.

= 409 CU. FT.

ASSUME 1/3 OF ROCK STORAGE VOLUME IS WATER:

409 CU. FT. x 3 = 1227 CU. FT ROCK STORAGE

AREA IS 18.67 FT x 21.17 FT = 395 SQ. FT.

1227 ÷ 395 = 3.106 = 3 FEET - 2 INCHES DEEP

POND TOTALS: (REQUIREMENTS)

ROCK STGE REQ'D = 409 CU. FT

"OPEN" POND STGE REQ'D = 502 CU. FT

911 CU. FT = 911 CU. FT TOTAL.

- 409 CU. FT

= 502 CU. FT

POND TOTALS (PROVIDED)

ROCK STORAGE = 418 CU. FT

"OPEN" POND STGE = 540 CU. FT

TOTAL VOLUME AVAILABLE FOR WATER STORAGE = 958 CU. F

City of Albuquerque

P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

CONSTRUCTION PLAN REQUIREMENTS
CHECKLIST

PROJECT TITLE WAREHOUSE ADDITION AT 3216 VASSAR N.E.

DATE 3 NOV 1981 ZONE ATLAS PAGE NO. G-16

REVIEWER _____

LEGAL ADDRESS PARCEL 9, TRACT J, COLES INDUSTRIAL SUB'D. #2

ENGINEERING FIRM ADAM, HAMLYN, ANDERSON CONTACT JAKE BORDENAVE

ADDRESS 4055 MONTGOMERY N.E PHONE 883-3093

OWNER JERRY KELLY CONTACT _____

ADDRESS 3216 VASSAR N.E. PHONE 884-1250

ARCHITECT/SURVEYOR KEN HUEY DESIGN GROUP CONTACT KATHRYN HUEY

ADDRESS 3700 SIMMS SE PHONE 255-4756

GENERAL

Yes	No	NA	See Comments		
				1.	Professional's Stamp with signature and date: A. Engineer who prepared the Drainage Report B. Engineer or Surveyor who performed survey C. Engineer, Architect or Surveyor who prepared the grading plan.
				2.	North arrow with standard engineering scales used: A. 1"=10' for sites less than one (1) acre. B. 1"=20' for sites equal to but less than five (5) acres. C. 1"=50' for sites greater than five (5) acres
				3.	Vicinity map with Zone Atlas Page No. and legal description.
				4.	Location and Description of the Albuquerque Control Survey Vertical Datum.
				5.	Location and Description of the Temporary Bench Mark on site.
				6.	Legend indicating symbols and abbreviations used.
				7.	Certification of: A. Finish floor elevation in the Flood Zone by Engineer or Surveyor. B. Drainage & Grading Plan by Engineer.

City of Albuquerque

P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

DRAINAGE REPORT REQUIREMENTS
CHECKLIST

PROJECT TITLE: WAREHOUSE ADDITION AT 3216 VASSAR N.E.

DATE: 3 NOV 1981 ZONE ATLAS PAGE NO.: G-16

REVIEWER: _____

LEGAL ADDRESS: PARCEL 9, TRACT J, COLES INDUSTRIAL SUBD #2

ENGINEERING FIRM: ADAM, HAMLYN, ANDERSON CONTACT: JAKE BORDENAVE

ADDRESS: 4055 MONTGOMERY NE PHONE: 883-3093

OWNER: ~~KELLY~~ JERRY KELLY CONTACT: _____

ADDRESS: 3216 VASSAR N.E. PHONE: 884-1250

ARCHITECT/SURVEYOR: KEN HOVEY DESIGN GROUP CONTACT: KATHRYN HOVEY

ADDRESS: 3700 SIMMS SE PHONE: 255-4756

Approval of the submitted drainage will be granted when the following items have been satisfied. Please be advised that approval of the drainage report does not constitute approval of the construction plans (See Construction Plan Requirements Checklist). The pertinent sections of the City of Albuquerque Subdivision Ordinance and/or the AMAFCA Resolution 80-15 (labelled A and B respectively) are identified in parenthesis after each requirement.

GENERAL:

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YES	NO	NA	SEE COMMENTS	
				1. ENGINEER CERTIFIES
				2. PLANNING HISTORY - Planning and zoning action history (A-21B; B-7).
				3. PROFESSIONAL CERTIFICATION - Professional's stamp with signature and date (B-4F and B-7B):
				A. Engineer who prepared the Drainage Report.
				B. Engineer or Surveyor who performed the survey.
				C. Engineer, Architect, or Surveyor who prepared the grading plan.
				4. FLOOD HAZARD - Delineation of site on pertinent Flood Hazard Boundary Map (A-21B; B-7B).
				5. WATERSHED SOILS - Delineation of site and contributing off-site watersheds on SCS Bernalillo County Soil Survey Maps (A-21B; B-7B).
				6. SOILS - Soils investigation report for ponding within 15 ft. from planned or existing structure or closer than 15 ft. from the property line minus the required setback on adjacent property. For ponds 18" deep or less, water may be impounded adjacent to street ROW but not closer than 10' from pavement. For ponds deeper than 18", water shall not pond closer than 15' to the pavement (A-21D;B-7B).