

DRAINAGE INFORMATION SHEET

PROJECT TITLE: 524 VERMONT ZONE ATLAS/DRAINAGE FILE # K-19/p87LEGAL DESCRIPTION: LOT 13A, BLOCK 38, MESA VERDE ADDITIONCITY ADDRESS: 524 VERMONT N.E.ENGINEERING FIRM: Weiss-Hines Engineering, Inc. CONTACT: STEVE CLARKADDRESS: 1100 Alvarado N.E.PHONE: 266-3444

OWNER: _____ CONTACT: _____

ADDRESS: _____ PHONE: _____

ARCHITECT: _____ CONTACT: _____

ADDRESS: _____ PHONE: _____

SURVEYOR: _____ CONTACT: _____

ADDRESS: _____ PHONE: _____

CONTRACTOR: _____ CONTACT: _____

ADDRESS: _____ PHONE: _____

PRE-DESIGN MEETING:

☒ YES☐ NO☒ COPY OF CONFERENCE
RECAP SHEET PROVIDED

APR 13 1988

HYDROLOGY SECTION

DRB. NO. _____

EPC NO. _____

PROJECT NO. _____

TYPE OF SUBMITTAL:

☐ DRAINAGE REPORT☒ DRAINAGE PLAN☐ CONCEPTUAL GRADING & DRAIN PLAN☒ GRADING PLAN☐ EROSION CONTROL PLAN☐ ENGINEER'S CERTIFICATION☐ Resubmittal

CHECK TYPE OF APPROVAL SOUGHT:

☐ SECTOR PLAN APPROVAL☐ SKETCH PLAT APPROVAL☐ PRELIMINARY PLAT APPROVAL☐ SITE DEVELOPMENT PLAN APPROVAL☐ FINAL PLAT APPROVAL☒ BUILDING PERMIT APPROVAL☐ FOUNDATION PERMIT APPROVAL☐ CERTIFICATE OF OCCUPANCY
APPROVAL

APPROVAL

APPROVAL

(SPECIFY)

Legal Description on

Pre-Design is Lots 13 & 14
of Block 38 - Vicinity Map
indicates lots 14 & 15 as
project site - Information
Sheet says Lot 13A of Block
38

FILE COPY



City of Albuquerque

P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

MAYOR
KEN SCHULTZ

CHIEF
ADMINISTRATIVE OFFICER

GENE ROMO

DEPUTY CAO
PUBLIC SERVICES

FRANK MARTINEZ

DEPUTY CAO
PLANNING/DEVELOPMENT

BILL MUELLER

April 22, 1988

Chris Weiss, P.E.
Weiss-Hines Engineering, Inc.
1100 Alvarado, NE
Albuquerque, New Mexico 87110

RE: DRAINAGE PLAN FOR 524 VERMONT, NE (K-19/D87)
ENGINEER'S STAMP DATED APRIL 12, 1988

Dear Mr. Weiss:

Based on the information provided on your submittal of April 13, 1988, the above referenced plan is approved. Please be advised that no runoff will be allowed to cross the property line.

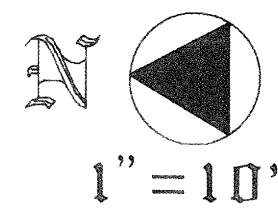
Please attach a copy of this plan to the construction sets prior to sign-off by Hydrology.

If I can be of further assistance, please feel free to call me at 768-2650.

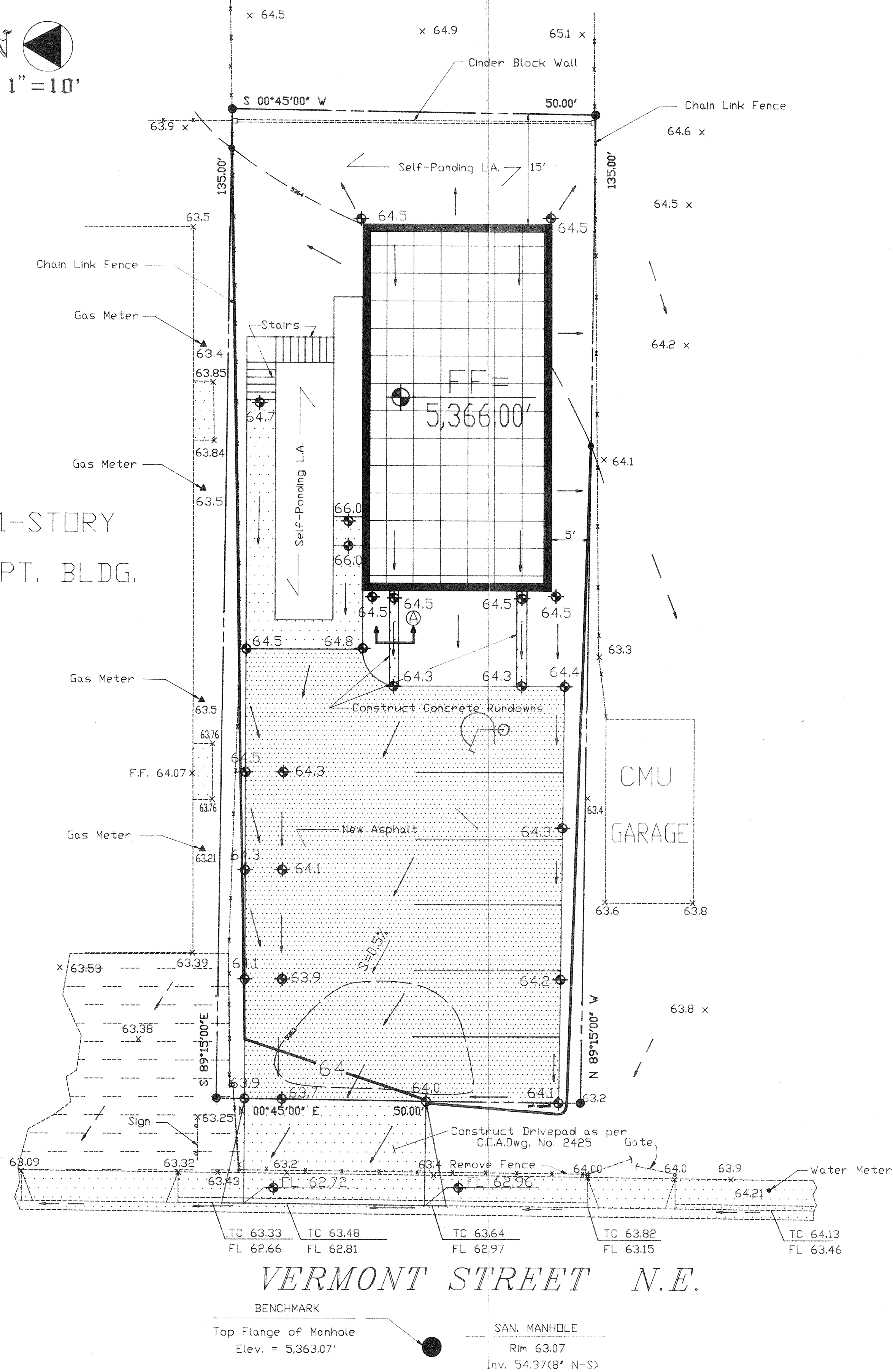
Cordially,

Bernie J. Montoya, C.E.
Engineering Assistant

BJM/bsj

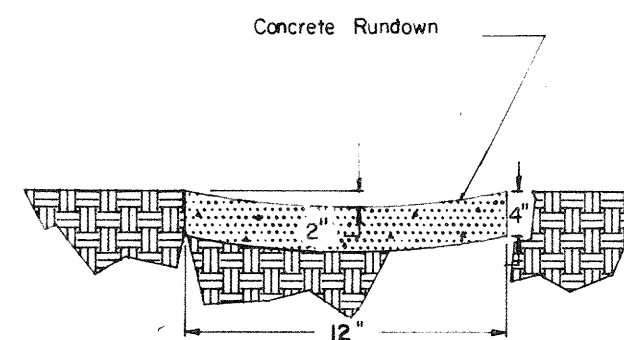


1-STORY
APT. BLDG.

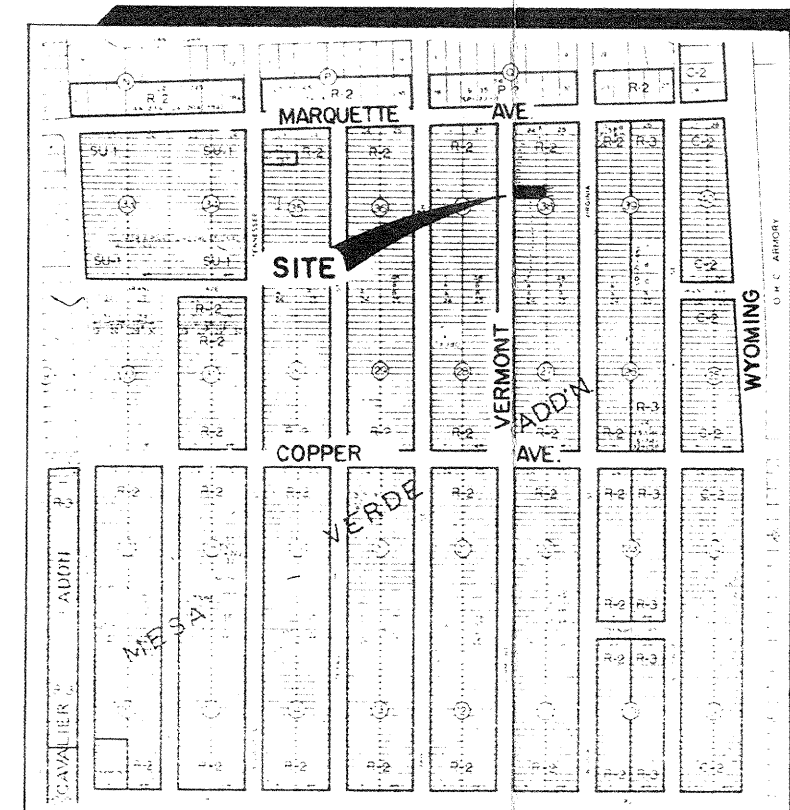


LEGEND

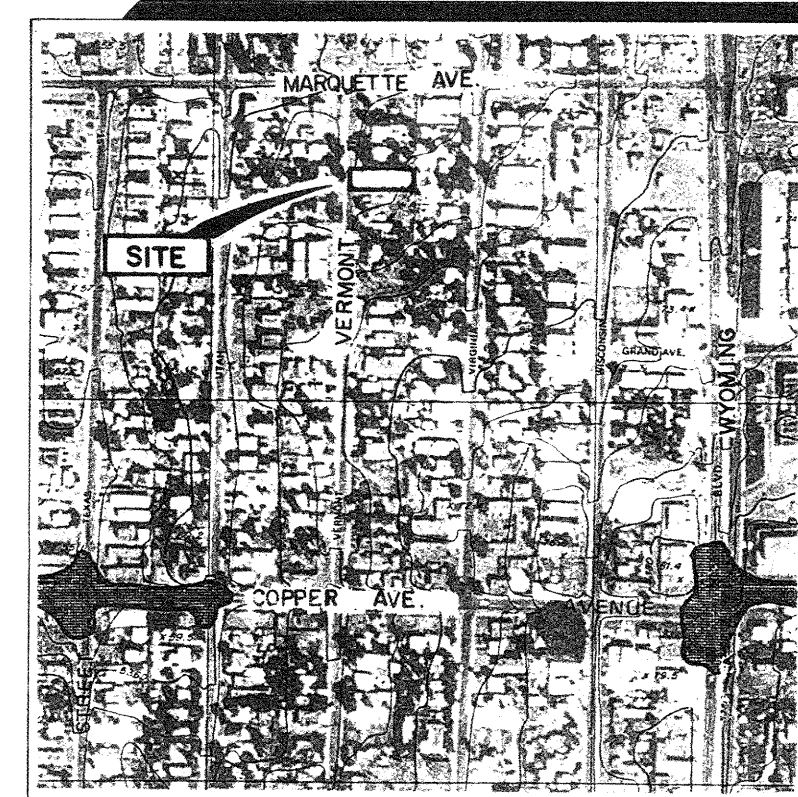
| | |
|--|---|
| | Sidewalk, Curb & Gutter (Existing/Proposed) |
| | Proposed Asphalt |
| | Building (Existing/Proposed) |
| | Property Line |
| | Existing Spot Elevation |
| | Existing Contour |
| | Proposed Spot Elevation |
| | Proposed Contour |
| | Surface Flow Direction (Existing/Proposed) |
| | Landscaped Area |
| | Top of Grade Wall (< 18' High) |
| | Top of Retaining Wall (> 18' High) |
| | Top of Asphalt |
| | Top of Curb |
| | Flow Line |
| | Finished Floor |



SECTION (A)
CONCRETE CURB & GUTTER



VICINITY MAP K-19



FLOOD HAZARD MAP

SCOPE:

The proposed improvements are comprised of a 2550 SF two-story four-plex apartment building, a 2600 SF asphalt parking area and associated walks and landscaped areas.

The present site is unimproved vacant land sloping at approximately 1% from the back (east) toward Vermont Street, N.E. (west). A concrete block wall sits just inside the east property line. Chain link fences lie near the north, west, and south property lines. A portion of the asphalt parking area for the property adjacent to the north extends into the site's northwest corner.

The intent of this plan is to show:

- Grading relationships between the existing ground elevations and proposed finished elevations in order to facilitate positive drainage to designated discharge points.
- The extent of proposed site improvements, including buildings, walks and pavement.
- The flow rate/volume of rainfall runoff across or around these improvements and methods of handling these flows to meet City requirements for drainage management.
- The relationship of onsite improvements with existing neighboring property to insure an orderly transition between proposed and surrounding grades.

DRAINAGE PLAN CONCEPT:

Because of sufficient downstream capacity in the City's storm sewer system, free discharge of storm flows into Vermont St. N.E. is allowed. The site is graded to drain from east to west and through the drive entrance into the street.

GENERAL NOTES:

LEGAL: Lot 13-A, Block 38, Mesa Verde Addition, Albuquerque, NM.

SURVEYOR: Gordon J. Douglas & Associates, 126 Washington S.E., Albuquerque, NM. March 1988.

B.M.: C.O. A. Benchmark 2-319, located 20' west of NW curb return of the Loas Blvd. and Utah St. N.E. intersection. "Q" chiseled on top of concrete curb. Elevation = 5,350.124'.

T.B.M.: Top flange of manhole located in Vermont St. N.E. directly west of site. Elevation = 5,363.07'.

SOILS: Per SCS Soil Survey for Bernalillo County (Map 31), the soil type is T8b (fine-grained sandy loam) and is classified as Hydrologic Soil Type "B".

FLOOD HAZARD: Per FEMA Flood Boundary Map (Panel 30), the site is not located in a flood hazard zone.

OFF-SITE DRAINAGE: A concrete block wall near the east property line prevents flow from the east from reaching the site. Developed lots north and south of the site drain away from the site. Vermont St. N.E. lies west of the site. Thus, no offsite flows affect the site.

EROSION CONTROL: Any sediment generated during construction shall be retained on-site by means of a 1'-high earth berm constructed along the west property line.

CALCULATIONS: Calculations are based on the City of Albuquerque D.P.M. Manual, Vol. II for the 100-year, 6-hour storm, using the Rational Formula to compare the existing and proposed runoff rates.

RATIONAL METHOD- Q = C I A

Area of Site = 6,750 SF = 0.155 AC

Run-off Coefficients:

Existing Site:
Undeveloped Area = 6,710 SF
Paved Area = 40 SF

$C_u = \frac{(6710)(0.40)}{6750} = 0.40$

$C_p = \frac{(40)(0.95)}{6750} = 0.01$

Composite C = 0.41

Developed Site:
Roof Area = 2,670 SF
Landscaped Area = 1,234 SF
Paved Area = 2,846 SF

$C_r = \frac{(2670)(0.90)}{6750} = 0.36$

$C_l = \frac{(1234)(0.25)}{6750} = 0.05$

$C_p = \frac{(2846)(0.95)}{6750} = 0.40$

Composite C = 0.81

Rainfall Intensity:

$I = P_n (6.34) T^{-0.01} = 5.07$ per hour

Where $P_n = 6.4$ (ISD 22.2 D-1)

$T = 10$ minutes

Existing Conditions:

$Q_{ex} = (0.41)(5.07)(0.155) = 0.3$ cfs

$V_{ex} = (0.41)(6.4)(6750)/12 = 554$ CF

Developed Conditions:

$Q_{dev} = (0.81)(5.07)(0.155) = 0.6$ cfs

$V_{dev} = (0.81)(6.4)(6750)/12 = 1094$ CF

SUMMARY:

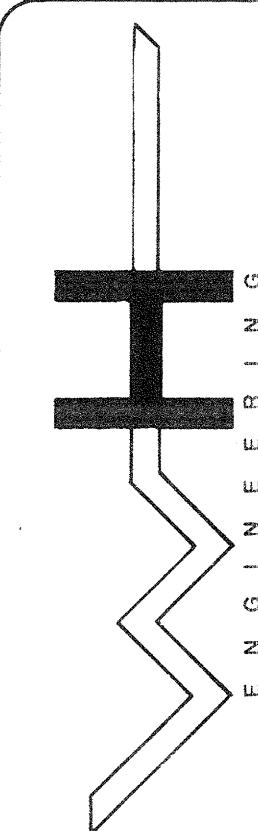
$Q_{ex} = (0.3) - (0.3) = 0.3$ cfs (increase)

$V_{ex} = (1094) - (554) = 540$ CF (increase)

RECEIVED
APR 13 1988
HYDROLOGY SECTION

524 VERMONT N.E.

DRAINAGE/GRADING PLAN



WEISS-HINES ENGINEERING, INC.
1100 ALVARADO N.E., SUITE B
ALBUQUERQUE, NEW MEXICO 87110
(505) 266-3444

DESIGNED SC 4/88
DRAWN SC 4/88
CHECKED

APR 13 1988

4-12-88

SHEET 1 OF 1