DRAINAGE INFORMATION SHEET

PROJECT TITLE: RHODE ISLAND APARTMENTS ZONE ATLAS/DRAINAGE FILE # K-19 / D88

LEGAL DESCRIPTION: LOT 25A, BLOCK 16, MESA VERDE ADDITION

CITY ADDRESS: ____________________

ENGINEERING FIRM: Weiss-Hines Engineering, Inc. CONTACT: STEVE CLARK

ADDRESS: 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:

RECEIVED
MAY 13 1988
HYDROLOGY SECTION

___ YES

___ NO

___ COPY OF CONFERENCE RECAP SHEET PROVIDED

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

X Resubmittal

CHECK TYPE OF APPROVAL SOUGHT:

___ SECTOR PLAN APPROVAL

___ 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: 5-13-88

BY: Weiss-Hines Eng. Inc.

REV. 10/85

DATE RECEIVED ____________________

BY ____________________

FILE COPY

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

MAYOR	CHIEF ADMINISTRATIVE OFFICER	DEPUTY CAO PUBLIC SERVICES	DEPUTY CAO PLANNING/DEVELOPMENT
KEN SCHULTZ	GENE ROMO	FRANK MARTINEZ	BILL MUELLER

May 19, 1988

Chris Weiss, P.E.
Weiss-Hines Engineering
1100 Alvarado, NE
Albuquerque, New Mexico 87108

RE: REVISED DRAINAGE PLAN FOR RHODE ISLAND APARTMENTS
(K-19/D88) REVISION BLOCK DATED MAY 13, 1988

Dear Mr. Weiss:

Based on the information provided on your resubmittal of May 13, 1988, the above referenced plan is approved for Building Permit.

Please be advised that a separate permit is required for construction within the City right-of-way. The contractor must have a copy of this approved letter when applying for his excavation permit.

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.

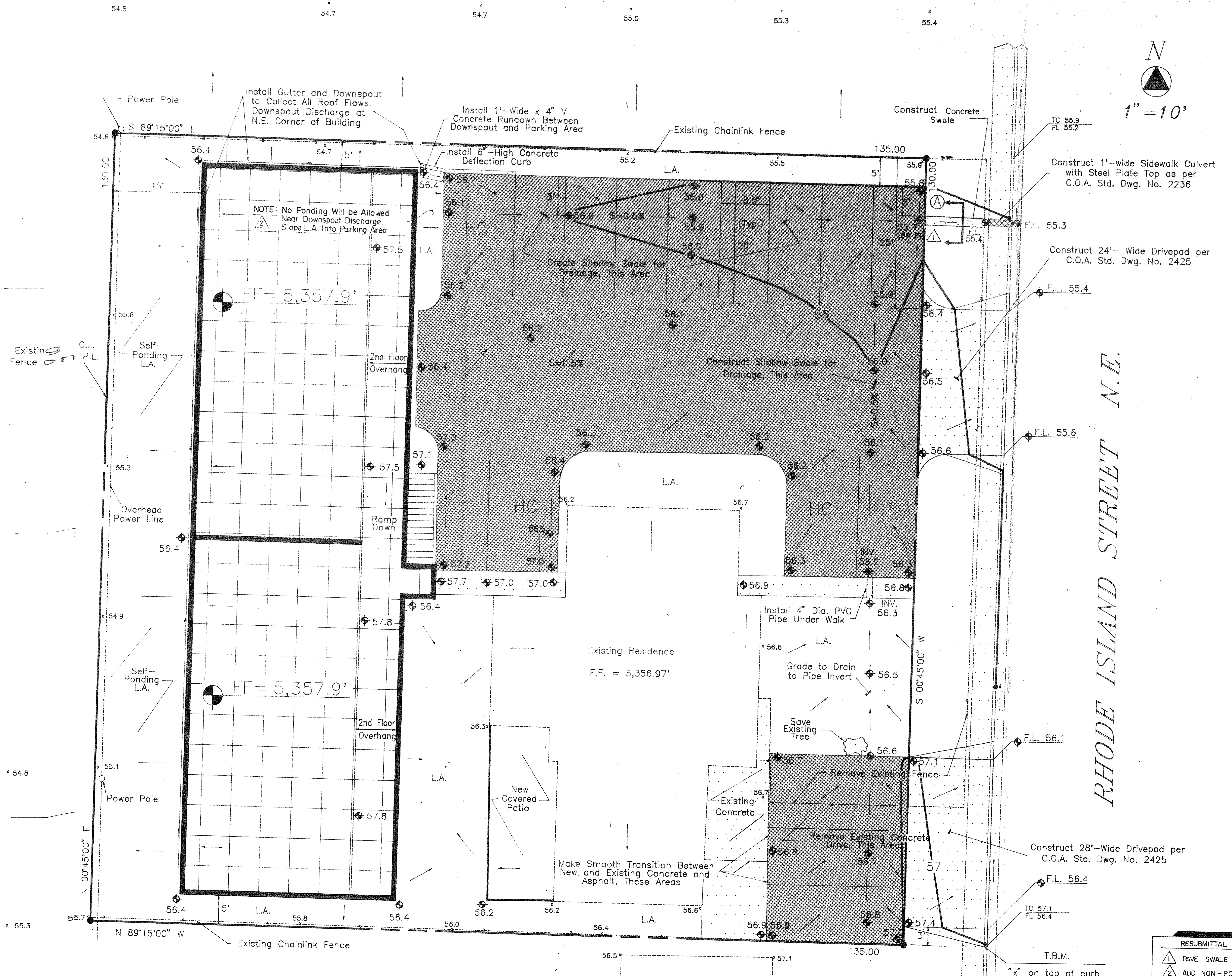
Cordially,

Bernie J. Montoya

Bernie J. Montoya, C.E.
Engineering Assistant

BJM/bsj

xc: Becky Sandoval



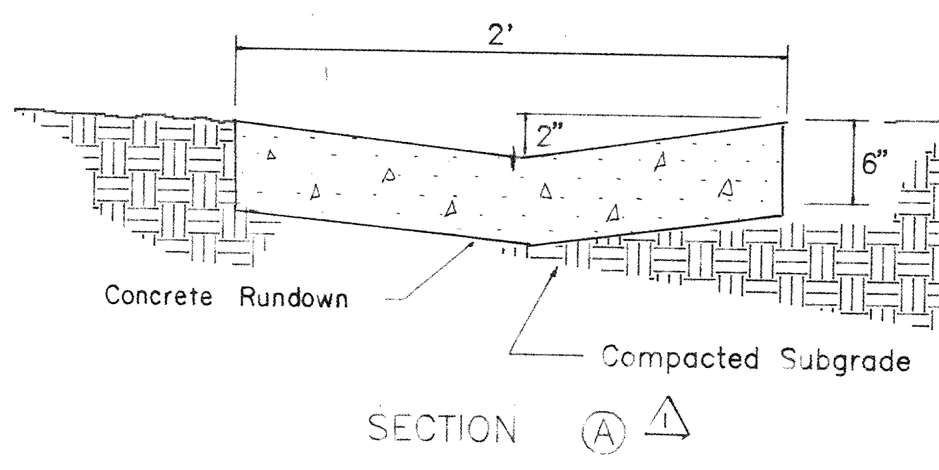
RESUBMITTAL, 5-13-88:

1. PAVE SWALE IN CITY R.O.W.
2. ADD NON-PONDING NOTE AT N.E. CORNER OF BLDG.

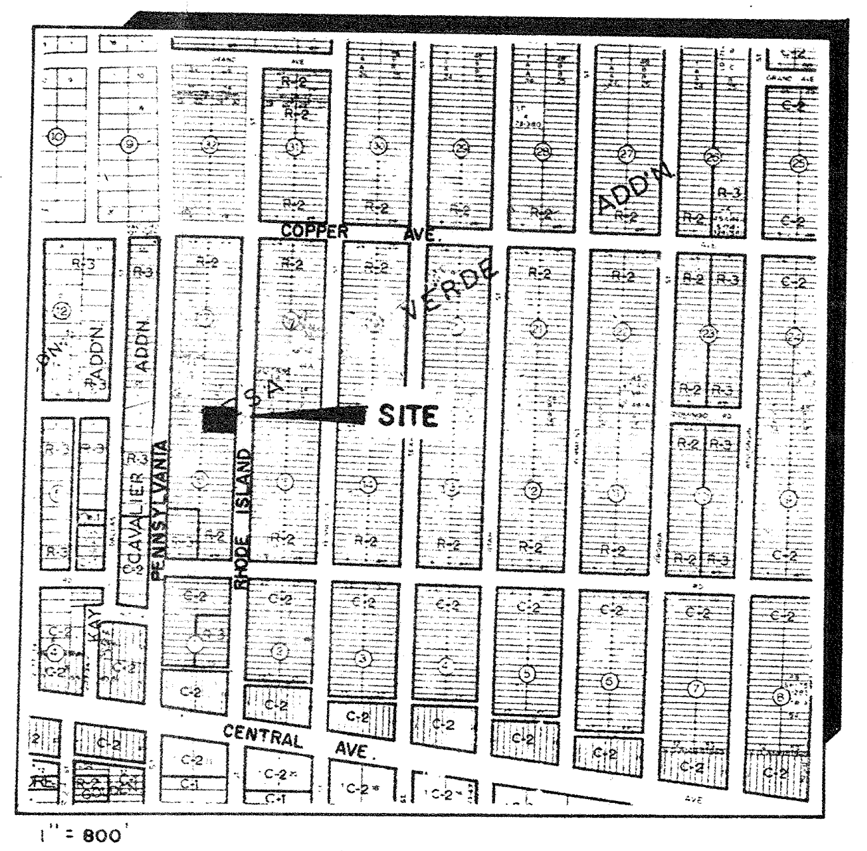
Chris Weiss 5-13-88
CHRIS WEISS, P.E. DATE

LEGEND

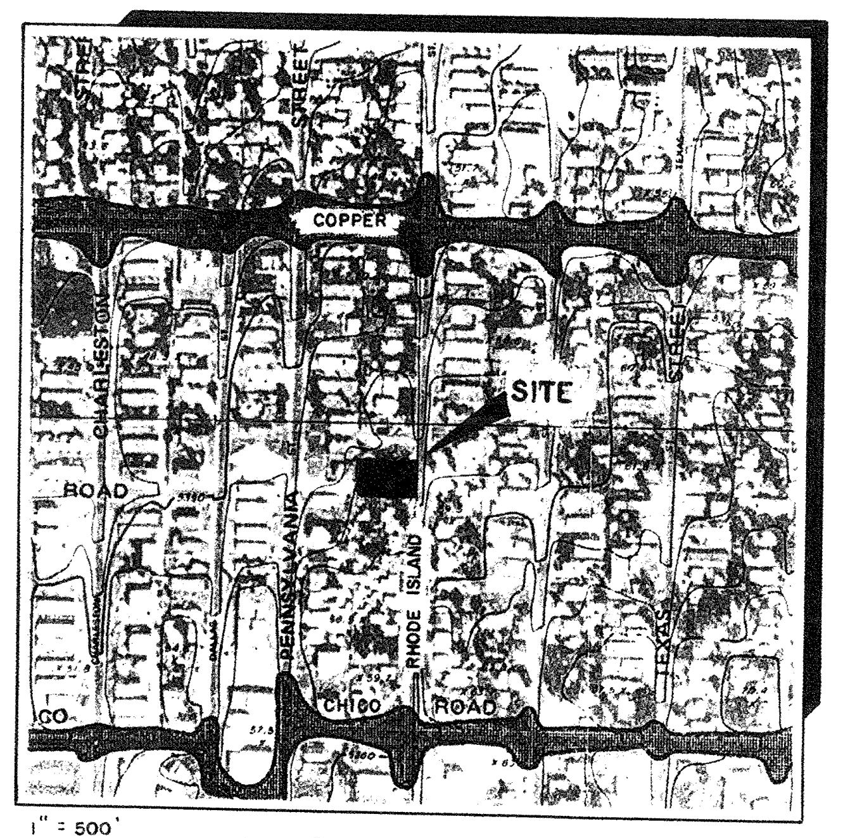
┄┄┄	Sidewalk, Curb & Gutter (Existing, Proposed)
▨	Proposed Asphalt
▦	Building (Existing, Proposed)
— - —	Property Line
× 65.7	Existing Spot Elevation
—20—	Existing Contour
⊕ 75.2	Proposed Spot Elevation
—30—	Proposed Contour
→	Surface Flow Direction (Existing, Proposed)
L.A.	Landscaped Area
T.G.W.	Top of Grade Wall (< 18" High)
T.R.W.	Top of Retaining Wall (> 18" High)
T.A.	Top of Asphalt
T.C.	Top of Curb
F.L.	Flow Line
F.F.	Finished Floor



SECTION A 1
Concrete Swale



VICINITY MAP K-19



FLOOD HAZARD MAP

SCOPE:

The proposed improvements are comprised of two adjoining 4-plex apartment building (4100 SF), two asphalt parking areas (54 SF) and associated walks and landscaped areas.

The present site contains an existing 2100 SF house which will remain to be remodeled, and a concrete driveway which will be removed. The remainder of the site is open, unimproved land which slopes approximately 1% from the front (Rhode Island Street N.E.) westerly to the back of the property. A chain link fence surrounds the site on all four sides.

The intent of this plan is to show:

a) Grading relationships between the existing ground elevations and proposed finished elevations in order to facilitate positive drainage to designated discharge points.

b) The extent of proposed site improvements, including buildings, walks and pavement.

c) 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.

d) The relationship of onsite improvements with existing neighboring property to insure an orderly transition between proposed and surrounding grades.

DRAINAGE PLAN CONCEPT:

Sufficient downstream capacity in the City's storm sewer system was determined during a pre-design conference with City Hydrology. Free discharge of storm flows into Rhode Island Street N.E. is allowed. The site will drain from west to east and dircharge through a concrete sidewalk culvert into the street on the north side of the site.

GENERAL NOTES:

LEGAL: Lot 25-A, Block 16, Mesa Verde Addition, Albuquerque, NM.

SURVEYOR: Douglas H. Smith, Land Surveyor, 2130 San Mateo N.E., Albuquerque, NM. April 1988.

B.M.: ACS Brass Cap "6-K19", located on the west median nose of the intersection of Central Avenue and Pennsylvania Blvd., N.E. Elevation = 5,358.443'.

T.B.M.: Top of curb at extension of south property line. Elevation = 5,357.1'.

SOILS: Per SCS Soil Survey for Bernalillo County (Map 31), the soil type is TgB (Tijeras gravelly fine sandy loam) and is classified as hHydrologic 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: No significant flows from developed properties to the north, west or south affect the site. Rhode Island Street N.E. is adjacent to the east side of the site.

EROSION CONTROL: Any sediment generated during construction shall be retained on-site by means of a 1'-high temporary earth berm constructed along the east 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 - $Q = CIA$

Area of site: 17,550 SF = 0.403 AC

Run-off Coefficient:

Existing site:
Undeveloped Area = 14,875 SF
Roof Area = 2,153 SF
Paved Area = 522 SF

$$C_u = \frac{(14,875)(0.40)}{17,550} = 0.34$$

$$C_r = \frac{(2,153)(0.90)}{17,550} = 0.11$$

$$C_p = \frac{(522)(0.95)}{17,550} = \underline{0.03}$$

Composite C = 0.48

Developed Site:
Roof Area = 6,652 SF
Landscaped Area = 5,117 SF
Paved Area = 5,781 SF

$$C_r = \frac{(6,652)(0.90)}{17,550} = 0.34$$

$$C_l = \frac{(5,117)(0.25)}{17,550} = 0.07$$

$$C_p = \frac{(5,781)(0.95)}{17,550} = \underline{0.31}$$

Composite C = 0.72

Rainfall Intensity:

$$I = P_6\ (6.84)\ T_c^{-0.51} = 5.07\text{" per hour}$$

where P_6 = 2.4"(DPM 22.2 D-1)
T_c = 10 minutes

Existing Condition:

$$Q_{100} = (0.48)(5.07)(0.403) = 1.0 \text{ cfs}$$

$$V_{100} = (0.48)(P_6)(17,550)/12 = 1,685 \text{ CF}$$

Developed Condition:

$$Q_{100} = (0.72)(5.07)(0.403) = 1.5 \text{ cfs}$$

$$V_{100} = (0.72)(2.4)(17,550)/12 = 2,527 \text{ CF}$$

SUMMARY:
Q_{100} = (1.5)-(1.0) = 0.5 cfs (increase)
V_{100} = (2,527)-(1,685) = 842 CF (increase)

NOTICE TO CONTRACTOR

1. An excavation/construction permit will be required before beginning any work within City right-of-way. An approved copy of these plans must be submitted at the time of application for this permit.
2. All work detailed on these plans to be performed, except as otherwise stated or provided hereon, shall be constructed in accordance with Albuquerque Interim Standard Specifications for Public Works Construction.
3. Two working days prior to any excavation, contractor must contact Line Locating Service, 765-1234, for location of existing utilities.
4. Prior to construction, the contractor shall excavate and verify the horizontal and vertical locations of all obstructions. Should a conflict exist, the contractor shall notify the engineer so that the conflict can be resolved within a minimum amount of delay.
5. Backfill compaction shall be according to residential street use.
6. Maintenance of these facilities shall be the responsibility of the Owner of the property served.
7. Contractor is responsible for obtaining excavation permit for sidewalk culvert/drain.
8. Proof of acceptance will be required prior to sign off for Certificate of Occupancy (C.O.).

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MAY 13 1988
HYDROLOGY SECTION

DRAINAGE FACILITIES WITHIN CITY RIGHT-OF-WAY

DESIGN APPROVAL: Berno J Montoya 5/19/88
Hydrology Section Date

INSPECTION APPROVAL: ____________________
Construction Section Date

ACCEPTANCE: ____________________
Construction Section/Permits Date

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

REVISIONS	DATE
DESIGNED SC	4-88
DRAWN SC	4-88
CHECKED CW	4-88

RHODE ISLAND ST. APTS.
GRADING/DRAINAGE PLAN

ENGINEERING

Christopher Weiss 4-25-88

SHEET 1 OF 1