

CITY OF ALBUQUERQUE



June 23, 2010

Shahab Biazar, P.E.
Advanced Engineering and Consulting, LLC
4416 Anaheim Ave NE
Albuquerque, NM 87113

**Re: Lots 11 and 12, 8705 Central Ave NW, Grading and Drainage Plan
Engineer's Stamp date 6-17-10 (K09/D036)**

Dear Mr. Biazar,

Based upon the information provided in your submittal received 6-21-10, the above referenced plan is approved for Building Permit. Please attach a copy of this approved plan to the construction sets prior to sign-off by Hydrology.

Prior to Certificate of Occupancy release, Engineer Certification per the DPM checklist will be required.

If you have any questions, you can contact me at 924-3695.

Sincerely,

Curtis A. Cherne, P.E.
Senior Engineer, Planning Dept.
Development and Building Services

C: file

DRAINAGE AND TRANSPORTATION INFORMATION SHEET

(Rev. 12/05)

PROJECT TITLE: LOT 11 AND 12, BLOCK 7, ORIGINAL TOWNSITE AT WESTLAND ZONE ATLAS/DRG. FILE #: K-9 / D036
 DRB #: _____ EPC #: _____ WORK ORDER #: _____

LEGAL DESCRIPTION: LOT 11 AND 12, BLOCK 7, ORIGINAL TOWNSITE AT WESTLAND
 CITY ADDRESS: 8705 Central Ave NW

ENGINEERING FIRM: Advanced Engineering and Consulting, LLC CONTACT: Shahab Biazar
 ADDRESS: 4416 Anaheim Ave., NE PHONE: (505) 899-5570
 CITY, STATE: Albuquerque, New Mexico ZIP CODE: 87113

OWNER: _____ CONTACT: _____
 ADDRESS: _____ PHONE: _____
 CITY, STATE: _____ ZIP CODE: _____

ARCHITECT: _____ CONTACT: _____
 ADDRESS: _____ PHONE: _____
 CITY, STATE: _____ ZIP CODE: _____

SURVEYOR: _____ CONTACT: _____
 ADDRESS: _____ PHONE: _____
 CITY, STATE: _____ ZIP CODE: _____

CONTRACTOR: _____ CONTACT: _____
 ADDRESS: _____ PHONE: _____
 CITY, STATE: _____ ZIP CODE: _____

CHECK TYPE OF SUBMITTAL:

_____ DRAINAGE REPORT
 _____ DRAINAGE PLAN 1ST SUBMITTAL
 _____ DRAINAGE PLAN RESUBMITTAL
 _____ CONCEPTUAL GRADING & DRAINAGE PLAN
☒ GRADING PLAN
 _____ EROSION CONTROL PLAN
 _____ ENGINEER'S CERTIFICATION (HYDROLOGY)
 _____ CLOMR / LOMR
 _____ TRAFFIC CIRCULATION LAYOUT (TCL)
 _____ ENGINEER/ARCHITECT CERT (TCL)
 _____ ENGINEER/ARCHITECT CERT (DRB S.P.)
 _____ ENGINEER/ARCHITECT CERT (AA)
 _____ OTHER (SPECIFY) _____

CHECK TYPE OF APPROVAL SOUGHT:

_____ SIA / FINANCIAL GUARANTEE RELEASE
 _____ 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 (PERM.)
 _____ CERTIFICATE OF OCCUPANCY (TEMP.)
☒ GRADING PERMIT APPROVAL
 _____ PAVING PERMIT APPROVAL
 _____ WORK ORDER APPROVAL
 _____ OTHER (SPECIFY) _____

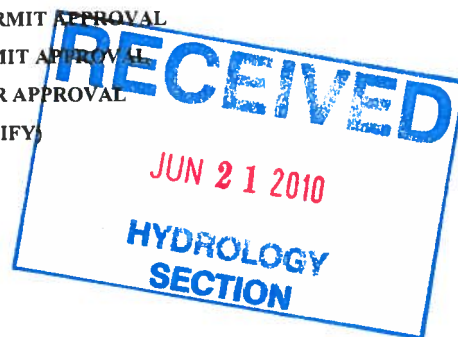
WAS A PRE-DESIGN CONFERENCE ATTENDED:

_____ YES
☒ NO
 _____ COPY PROVIDED

DATE SUBMITTED: 06 / 21 / 2010 BY: Shahab Biazar, P.E.

Requests for approvals of Site Development Plans and/or Subdivision Plats shall be accompanied by a drainage submittal. The particular nature, location and scope of the proposed development defines the degree of drainage detail. One or more of the following levels of submittals may be required based on the following:

1. **Conceptual Grading and Drainage Plan:** Required for approval of Site Development Plans greater than five (5) and Sector Plans.
2. **Drainage Plans:** Required for building permits, grading permits, paving permits and site plans less than five (5).
3. **Drainage Report:** Required for subdivisions containing more than ten (10) lots or containing five (5) acres or more.



DRAINAGE REPORT
FOR

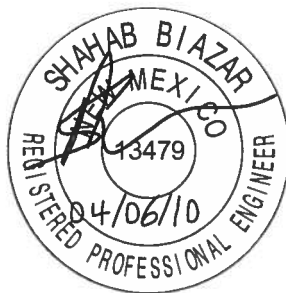
⁺³
*LOTS 11 & 12, BLOCK 7,
ORIGINAL TOWNSITE AT WESTLAND*

Prepared by:

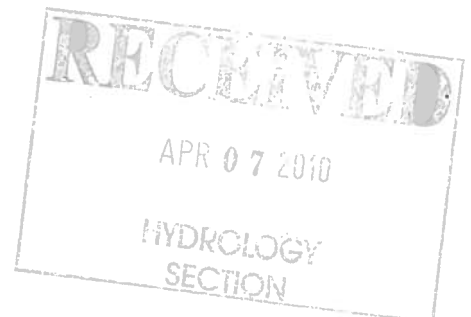


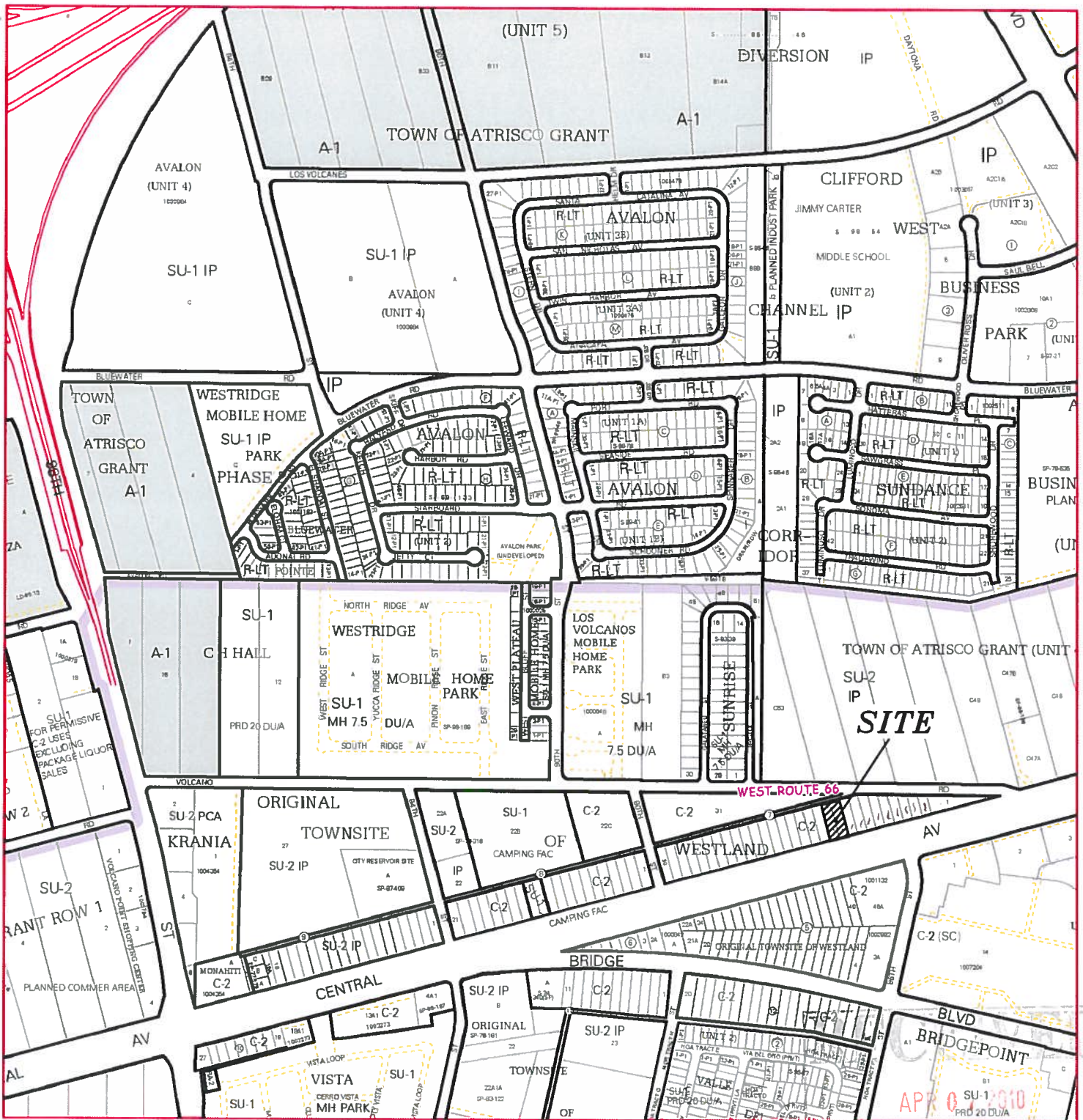
4416 Anaheim Ave., NE
Albuquerque, New Mexico 87113

April, 2010

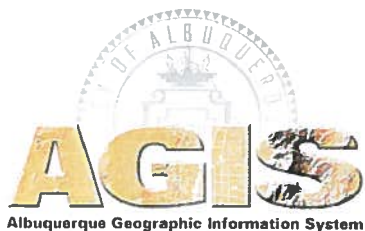


Shahab Biazar
PE NO. 13479

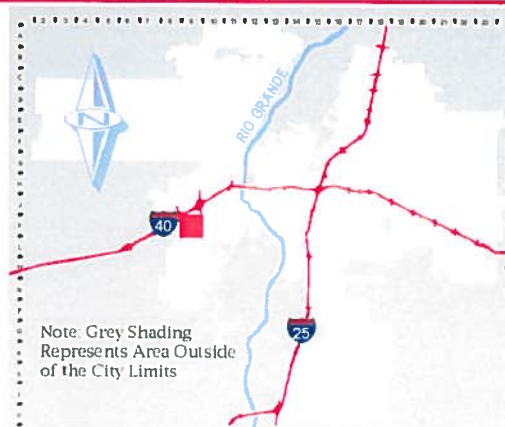




For more current information and more details visit: <http://www.cabq.gov/gis>



Map amended through: 3/10/2009



Zone Atlas Page:

K-09-Z

Selected Symbols

- SECTOR PLANS**
- Design Overlay Zones
- City Historic Zones
- H-1 Buffer Zone
- Petroglyph Mon.
- Escarpment
- 2 Mile Airport Zone
- Airport Noise Contours
- Wall Overlay Zone



Location

Lot 11 and 12, Block 7, Original Townsite at Westland, are located between 86th and 90th Street on the north side of Central Avenue. See an attached portion of Zone Atlas page number K-9 for exact location.

Purpose

The purpose of this drainage report is to present a grading and drainage solution for the proposed building on this site. We are requesting rough grading and building permit approval.

Existing Drainage Conditions

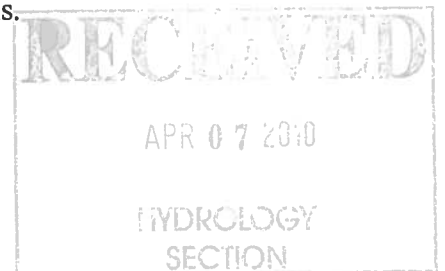
The site drains from west to east and then south to Central Avenue. Minor runoff may enter from the north and some from the west. No other offsite runoff does appear to enter the site. Based on the FIRM map number 35001C0328G the site does not fall within a 100-year floodplain. See an attached portion of the floodplain map for the location of the site.

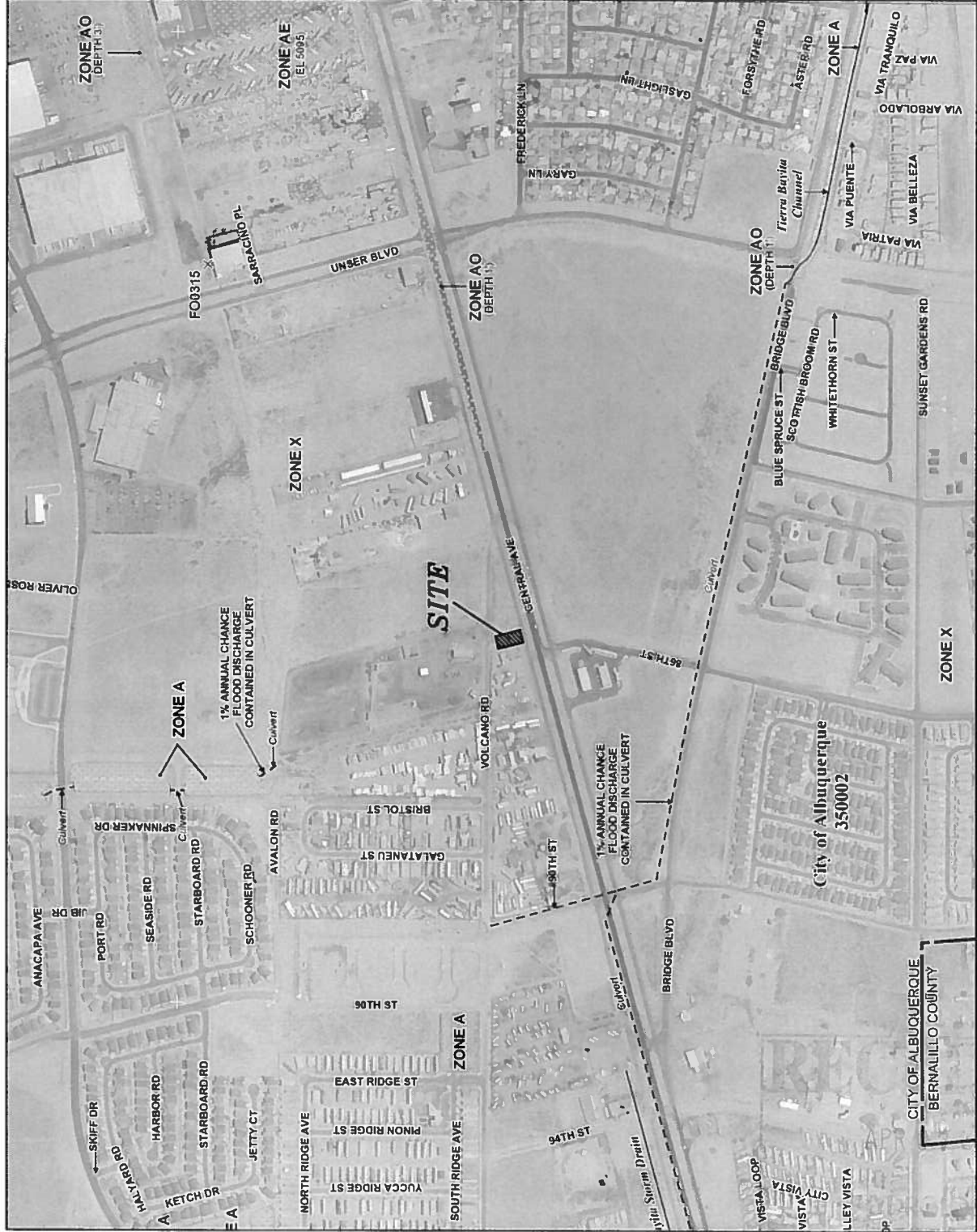
Proposed Conditions and On-Site Drainage Management Plan

Under the proposed conditions the runoff will continue to drain from west to east and the south to Central Avenue. The increase in the runoff is fairly insignificant and should not have an impact on the street flow capacity nor the drainage system downstream of the site.

Calculations

City of Albuquerque, Development Process Manual, Section 22.2, Hydrology Section, was used for runoff calculations. See this report for Summary Table for runoff results. See also this report for the AHYMO input and output files for runoff calculations.





MAP SCALE 1" = 500'



NATIONAL FLOOD INSURANCE PROGRAM

FIRM
FLOOD INSURANCE RATE MAP
BARNALILLO COUNTY,
NEW MEXICO
AND INCORPORATED AREAS
PANEL 328 OF 025
(SEE MAP INDEX FOR FIRM PANEL LOCATION)

COMMUNITY	DATE	PANEL	SUFFIX
BARNALILLO COUNTY	2000	025	0
INCORPORATED AREAS	2000	025	0

MAP NUMBER
35001C0328G
MAP REVISED
SEPTEMBER 26, 2008
Federal Emergency Management Agency

This is an official copy of a portion of the above referenced flood map. It was extracted using FIRM On-Line. This map does not reflect changes or amendments which may have been made subsequent to the date on this map. For the most current information, please visit the FEMA Flood Map Service Center website at www.fema.gov. Program flood maps check the FEMA Flood Map Service at www.fema.gov.

RUNOFF CALCULATION RESULTS

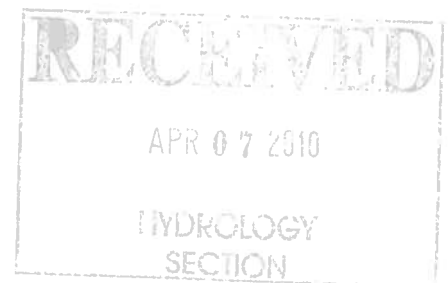
BASIN	AREA (SF)	AREA (AC)	AREA (MI ²)
ON-SITE	20,000.00	0.4591	0.000717

HISTORICAL

BASIN	Q-100 CFS	Q-10 CFS	TREATMENT A, B, C, D
ON-SITE	0.60	0.11	100%, 0%, 0%, 0%

PROPOSED

BASIN	Q-100 CFS	Q-10 CFS	TREATMENT A, B, C, D
ON-SITE	1.78	1.11	0%, 10%, 20%, 70%



2010 BASIN.123

RUNOFF CALCULATIONS

(INPUT DATA FOR AHYMO CALCULATIONS)

The site is @ Zone 1

DEPTH (INCHES) @ 100-YEAR STORM

$$P_{60} = 1.87 \text{ inches}$$

$$P_{360} = 2.20 \text{ inches}$$

$$P_{1440} = 2.66 \text{ inches}$$

DEPTH (INCHES) @ 10-YEAR STORM

$$\begin{aligned} P_{60} &= 1.87 \times 0.667 \\ &= 1.25 \text{ inches} \end{aligned}$$

$$P_{360} = 1.47$$

$$P_{1440} = 1.77$$

See the summary output from AHYMO calculations.

Also see the following summary tables.

AHYMO INPUT FILE

```
*
* ZONE 1
*
*****
*      100-YEAR,  6-HR STORM (UNDER HISTORICAL CONDITIONS)      *
*****
START      TIME=0.0
RAINFALL   TYPE=1 RAIN QUARTER=0.0 IN
           RAIN ONE=1.87 IN RAIN SIX=2.20 IN
           RAIN DAY=2.66 IN DT=0.03333 HR

* ON-SITE
COMPUTE NM HYD      ID=1 HYD NO=101.0 AREA=0.000717 SQ MI
                   PER A=100.00 PER B=0.00 PER C=0.00 PER D=0.00
                   TP=0.1333 HR MASS RAINFALL=-1
*****
*      10-YEAR,  6-HR STORM (UNDER HISTORICAL CONDITIONS)      *
*****
START      TIME=0.0
RAINFALL   TYPE=1 RAIN QUARTER=0.0 IN
           RAIN ONE=1.25 IN RAIN SIX=1.47 IN
           RAIN DAY=1.77 IN DT=0.03333 HR

* ON-SITE
COMPUTE NM HYD      ID=1 HYD NO=111.0 AREA=0.000717 SQ MI
                   PER A=100.00 PER B=0.00 PER C=0.00 PER D=0.00
                   TP=0.1333 HR MASS RAINFALL=-1
*****
*      100-YEAR,  6-HR STORM (UNDER PROPOSED CONDITIONS)      *
*****
START      TIME=0.0
RAINFALL   TYPE=1 RAIN QUARTER=0.0 IN
           RAIN ONE=1.87 IN RAIN SIX=2.20 IN
           RAIN DAY=2.66 IN DT=0.03333 HR

* ON-SITE
COMPUTE NM HYD      ID=1 HYD NO=101.1 AREA=0.000717 SQ MI
                   PER A=0.00 PER B=10.00 PER C=20.00 PER D=70.00
                   TP=0.1333 HR MASS RAINFALL=-1
*****
*      10-YEAR,  6-HR STORM (UNDER PROPOSED CONDITIONS)      *
*****
START      TIME=0.0
RAINFALL   TYPE=1 RAIN QUARTER=0.0 IN
           RAIN ONE=1.25 IN RAIN SIX=1.47 IN
           RAIN DAY=1.77 IN DT=0.03333 HR

* ON-STIE
COMPUTE NM HYD      ID=1 HYD NO=111.1 AREA=0.000717 SQ MI
                   PER A=0.00 PER B=10.00 PER C=20.00 PER D=70.00
                   TP=0.1333 HR MASS RAINFALL=-1
*****
FINISH
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2

M

M

[illegible]