

CITY OF ALBUQUERQUE



November 1, 2010

Genevieve Donart, P.E.
Isaacson & Arfman, P.A.
128 Monroe St. NE
Albuquerque, NM 87108

Re: Park Hill Park
Grading & Drainage Plan
Engineer's Stamp dated 10/20/2010 (A11/D006A)

Dear Ms Donart,

Based upon the information provided in your submittal received 10-20-10, the above referenced plan is approved for Grading Permit, Building Permit and SO-19 Permit. Please attach a copy of this approved plan to the construction sets prior to sign-off by Hydrology.

This project requires a Topsoil Disturbance Permit since it is disturbing $\frac{3}{4}$ of an acre or more and a National Pollutant Discharge Elimination System (NPDES) permit.

A separate permit (SO 19) is required for construction within City ROW. A copy of this approval letter must be on hand when applying for the excavation/barricading permit.

Upon completion of the project, provide an Engineer Certification for our files.

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: Antoinette Baldonado, Excavation and Barricading
Dave Silva, Street/Storm Drain Maintenance
File

DRAINAGE AND TRANSPORTATION INFORMATION SHEET

(Rev. 12/05)

PROJECT TITLE: Park Hill Park ZONE MAP/DRG.FILE# A11/ Dea A
DRB#: _____ EPC#: _____ WORK ORDER#: _____

LEGAL DESCRIPTION: Tract A/Park & E/Park, Park Hill Subdivision, Unit 2
CITY ADDRESS: _____

ENGINEERING FIRM: ISAACSON AND ARFMAN, P.A. CONTACT: Bryan or Genny
ADDRESS: 128 MONROE N.E. PHONE: 268-8828
CITY, STATE: ALBUQUERQUE, NM ZIP CODE: 87108

OWNER: COA Parks CONTACT: David Flores
ADDRESS: _____ PHONE: _____
CITY, STATE: _____ ZIP CODE: _____

ARCHITECT: Dekker/Perich/Sabatini CONTACT: Julie Graff
ADDRESS: _____ PHONE: 338-5709
CITY, STATE: _____ ZIP CODE: _____

SURVEYOR: Paiki CONTACT: Phil Turner
ADDRESS: _____ PHONE: _____
CITY, STATE: _____ ZIP CODE: _____

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

TYPE OF SUBMITTAL:

- ☐ DRAINAGE REPORT
☐ DRAINAGE PLAN 1st SUBMITTAL
☐ DRAINAGE PLAN RESUBMITTAL
☐ CONCEPTUAL G & D PLAN
☒ GRADING PLAN
☐ EROSION CONTROL PLAN
☐ ENGINEER'S CERT (HYDROLOGY)
☐ CLOMR/LOMR
☐ TRAFFIC CIRCULATION LAYOUT
☐ 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
☐ RELIMINARY PLAT APPROVAL
☐ S. DEV. PLAN FOR SUB'D APPROVAL
☐ S. DEV. FOR BLDG. PERMIT APPROVAL
☐ SECTOR PLAN APPROVAL
☐ FINAL PLAT APPROVAL
☐ UNDATION PERMIT APPROVAL
☒ BUILDING PERMIT APPROVAL
☐ CRTIFICATE OF OCCUPANCY (PERM)
☐ CRTIFICATE OF OCCUPANCY (TEMP)
☒ GADING PERMIT APPROVAL
☐ PAVING PERMIT APPROVAL
☐ WORK ORDER APPROVAL
☒ OTHER (SPECIFY) _____

WAS A PRE-DESIGN CONFERENCE ATTENDED:

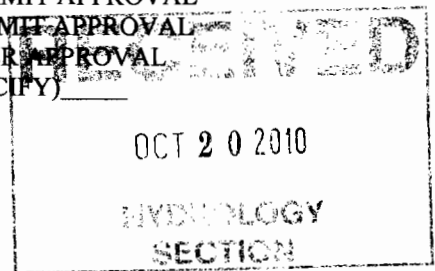
- ☐ YES
☒ NO
☐ COPY PROVIDED

SUBMITTED BY: Genevieve Donart
Isaacson & Arfman, P.A.

DATE: 10/20/10

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

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



OCTOBER 20, 2010

SUPPLEMENTAL INFORMATION

FOR

PARK HILL PARK

BY



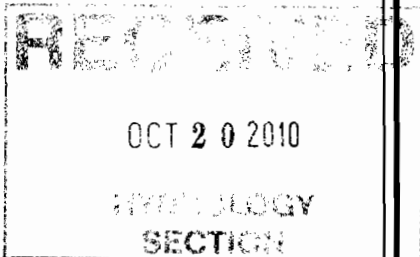
ISAACSON & ARFMAN, P.A.

Consulting Engineering Associates

128 Monroe Street N.E.

Albuquerque, New Mexico 87108

Ph. 505-268-8828 Fax. 505-268-2632



CALCULATIONS: Park Hill Park :

Based on Drainage Design Criteria for City of Albuquerque Section 22.2, DPM, Vol 2, dated Jan., 1993

ON-SITE

AREA OF SITE: 58857.63 SF = 1.4

100-year, 6-hour

HISTORIC FLOWS:**DEVELOPED FLOWS:****EXCESS PRECIP:**

	Treatment SF	%		Treatment SF	%	Precip. Zone	1
Area A =	0	0%	Area A =	0	0%	$E_A = 0.44$	
Area B =	0	0%	Area B =	0	0%	$E_B = 0.67$	
Area C =	58857.63	100%	Area C =	55915	95%	$E_C = 0.99$	
Area D =	0	0%	Area D =	2943	5%	$E_D = 1.97$	
Total Area =	58857.63	100%	Total Area =	58857.63	100%		

On-Site Weighted Excess Precipitation (100-Year, 6-Hour Storm)

$$\text{Weighted E} = \frac{E_A A_A + E_B A_B + E_C A_C + E_D A_D}{A_A + A_B + A_C + A_D}$$

Historic E	=	0.99 in.	Developed E	=	1.04 in.
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On-Site Volume of Runoff: $V_{360} = E \cdot A / 12$

Historic V_{360}	=	4856 CF	Developed V_{360}	=	5096 CF
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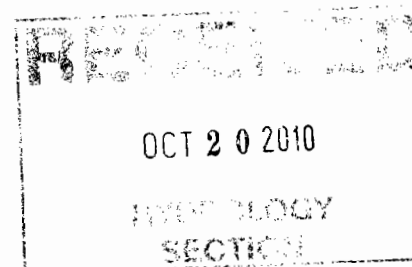
On-Site Peak Discharge Rate: $Q_p = Q_{pA} A_A + Q_{pB} A_B + Q_{pC} A_C + Q_{pD} A_D / 43,560$

For Precipitation Zone 1

Q_{pA}	=	1.29	Q_{pC}	=	2.87
Q_{pB}	=	2.03	Q_{pD}	=	4.37

Historic Q_p	=	3.9 CFS	Developed Q_p	=	4.0 CFS
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The overall site consists of 1.35118526170799 acre(s) located in Zone 1 which is designated as properties D. The 100-year, 6-hour historic discharge is 3.9 cfs. The proposed developed discharge is 4 cfs.





Isaacson & Arfman, P.A.

Consulting Engineering Associates

*Thomas O. Isaacson, PE & LS * Fred C. Arfman, PE * Åsa Nilsson-Weber, PE*

March 9, 2011

Mr. Curtis Cherne, PE
City of Albuquerque
Hydrology Dept.

RE: RESUBMITTAL – PARK HILL PARK (A11 / D006A)

Curtis,

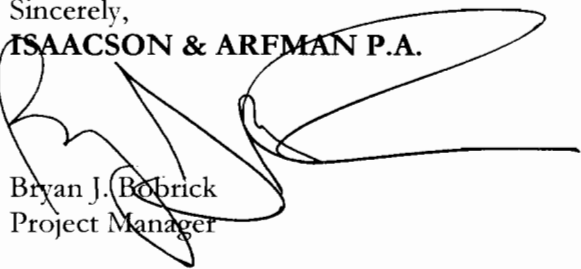
Attached with this letter is one copy of the revised Grading and Drainage Plan for the above mentioned project. This was previously approved per your letter dated November 1, 2010.

Revisions are based on minor site plan changes. There were no changes to the previously provided supplemental information, nor the previously approved drainage concept.

Please don't hesitate to call with any questions or concerns.

Sincerely,

ISAACSON & ARFMAN P.A.



Bryan J. Bobrick
Project Manager

C: File

March 9, 2011