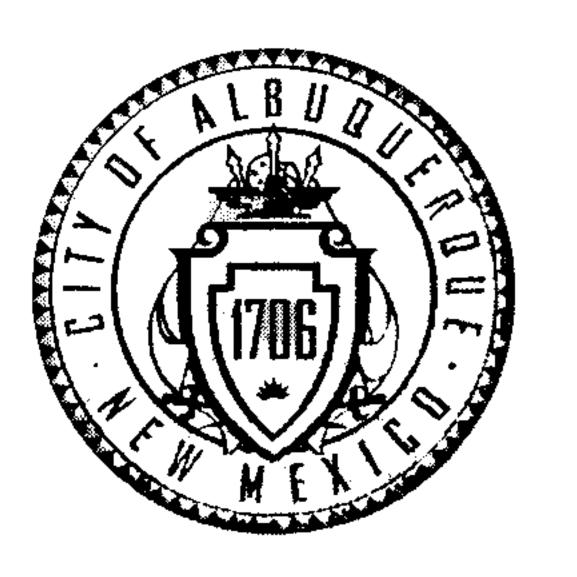
CITY OF ALBUQUERQUE

PLANNING DEPARTMENT - Development Review Services



Richard J. Berry, Mayor

October 17, 2016

Robert J. Fierro, P.E., P.S. Fierro & Company 6300 Montano Rd. Suite F3 Albuquerque, NM, 87120

RE:

Beehive Homes

Grading & Drainage Plan/Report

Engineer's Stamp Date 9-8-2016 (File: E10D027)

Dear Mr. Fierro:

Based upon the information provided in your submittal received 9-15-2016, the above referenced Grading and Drainage Plan and Report is approved for Building Permit with the following condition:

PO Box 1293

• Provide a desiltation pond, or other method to decrease sediment transport onto the adjacent property, since much of the existing on-site vegetation will be cleared with Phase I.

Albuquerque

Please attach a copy of this approved plan in the construction sets when submitting for a building permit. Prior to Certificate of Occupancy release, Engineer Certification per the DPM checklist and completion of the item above will be required.

If you have any questions you can contact me at 924-3986.

New Mexico 87103

www.cabq.gov

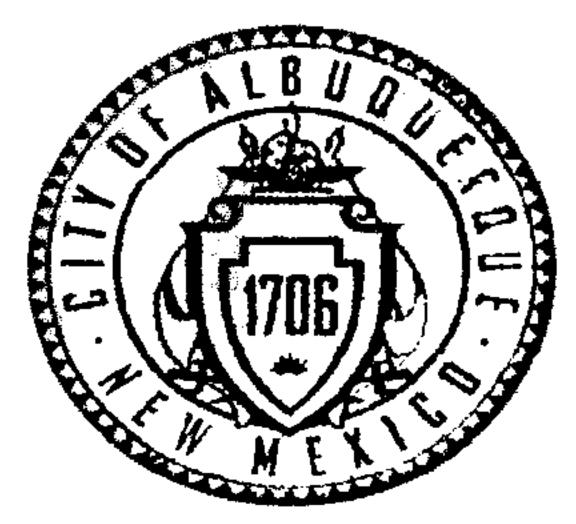
Abiel Carrillo, P.E.

Sincerely,

Principal Engineer, Planning Dept.

Development Review Services

Orig: Drainage file



City of Albuquerque

Planning Department

Development & Building Services Division

DRAINAGE AND TRANSPORTATION INFORMATION SHEET (REV 09/2015)

| Project Title: Beehive Ho | | - , | Building Permit #:_ | City Drainage #: |
|---|--|--|--|--|
| ORB#: | | PC#: | | Work Order#: |
| | | | DED PLAT OF VOLCANO | CLIFFS SUBDIVSION UNIT 1 |
| ity Address: 6230 Mont | ano Rd NW, Albuquerque, NM | 187120 | · · · · · · · · · · · · · · · · · · · | |
| ngineering Firm: Fie | rro & Company, LLC | | | Contact: Robert Fierro |
| ddress: 5508 Costa Ue | rde Rd, Albuquerque, NM 871 | 20 | | |
| hone#: (505) 503-9546 | Fa | x#: | | E-mail: robertfierro@fierrocompany.com |
| wner: 3 HN Healthcare | Properties, LLC | | | Contact: Gerald Hamilton |
| ddress: 7612 Rio Pena | sco Ct NW | | | |
| hone#: (505) 270-9989 | Fa | x#: | | E-mail: jhoward@beehivehomes.com |
| rchitect: RBA Architec | cture | | | Contact: David McEachem |
| ddress: 1104 Park Ave. | , SW, Albuquerque, NM 8710 | 2 | ······································ | |
| hone#: (505) 242-1859 | Fa | x#: | | E-mail: david@rba81.com |
| ther Contact: | | | | Contact: |
| ddress: | · | | | |
| hone#: | Fa | x#: | | E-mail: |
| EPARTMENT: HYDROLOGY/ DI TRAFFIC/ TRANS MS4/ EROSION & | PORTATION SEDIMENT CONTROL | | X BUILDING P CERTIFICAT | ERMIT APPROVAL E OF OCCUPANCY |
| EPARTMENT: HYDROLOGY/ DI TRAFFIC/ TRANS MS4/ EROSION & YPE OF SUBMITTAL ENGINEER/ ARCH CONCEPTUAL G GRADING PLAN DRAINAGE MAST | PORTATION SEDIMENT CONTROL ITECT CERTIFICATION & D PLAN | 3 | X BUILDING P CERTIFICAT PRELIMINAL SITE PLAN I SITE PLAN I FINAL PLAT | ERMIT APPROVAL |
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ELECTRONIC SUBMITTAL RECEIVED: ____

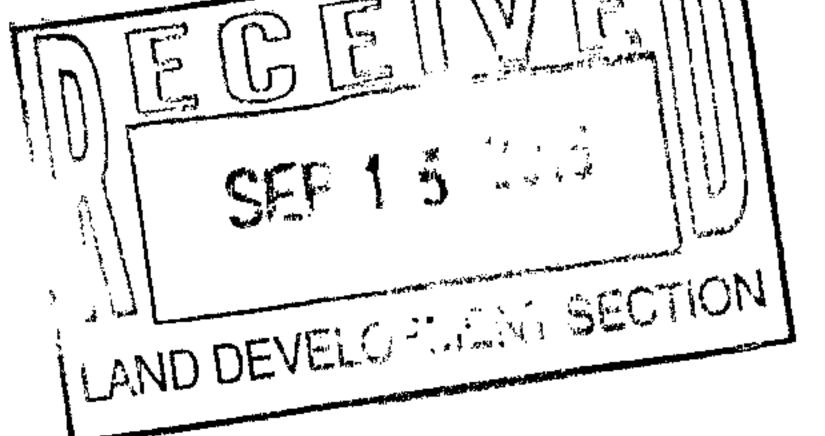
PRAINAGE REPORT FOR BEEHIVE HOMES AT VOLCANO CLIFFS, LOTS 0-26 through 0-31 VOLCANO CLIFFS, UNIT 1

Prepared For:

RBA Architects 1104 Park Ave SW Albuquerque, NM 87102

Prepared by:





September 2016

BEEHIVE HOMES AT VOLCANO CLIFFS DRAINAGE REPORT

September 2016

I, Robert J. Fierro, P.E., do hereby certify that this report was prepared by me or under my direction and that I am a duly registered Professional Engineer under the laws of the State of New Mexico.

Robert J. Fierro, P.E.
NMPE No. 20585

9-9-16

Date

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| TITLE | PAGE NO |
|--------------------|---------|
| INTRODUCTION | 1 |
| METHODOLOGY | 1 |
| EXISTING CONDITION | 2 |
| PROPOSED CONDITION | 2 |
| CONCLUSION | 3 |
| | |

APPENDIX INDEX

| TITLE | SECTION |
|--|---------|
| HYDROLOGIC DATA & RESULTS | A |
| PRECIPITATION DATA AHYMO CALCULATIONS — EXISTING CONDITIONS AHYMO CALCULATIONS — PROPOSED CONDITIONS | |
| HYDRAULIC DATA & RESULTS | В |
| CULVERT REPORT - POND OUTLET | |
| EXHIBITS | C |
| SHEET C-3.0: PHASE I GRADING PLAN SHEET C-3.1: DETAILS | |

SHEET C-3.2: BASIN MAP

INTRODUCTION

Authorization

RBA Architecture authorized Fierro & Company, LLC to prepare a Grading & Drainage Plan for the Beehive Homes Inc. at Volcano Cliffs project.

Study Area Location

The project is located within Zone Atlas Map: E-10-Z. See Sheet C-3.0.

Purpose

The purpose of this drainage report is to 1) determine the pre-develop and proposed runoff conditions for the 100-year, 6-hour storm event, 2) outline the criteria for development of the site, and 3) demonstrate that the downstream basins will not be inversely impacted by this development.

HYDROLOGY

Methodology

Drainage Basin Delineation

A topographic survey with 1-foot contour intervals was obtained by Harris Surveying, Inc. in October 2015. Spot checks were performed by Fierro & Company, LLC in June 2016. This data was used to delineate the existing basins.

Hydrological Method

Hydrologic procedures presented in the Hydrology Section of the City of Albuquerque's DMP, Section 22.2, revised April 7, 1993 were followed. AHYMO-S4 program was used to produce the peak flow and runoff volume values for the 100-year, 6-hour storm event.

Hydrological Characteristics

Precipitation

Rainfall depths for a range of durations were acquired from National Oceanographic and Atmospheric Administration's (NOAA) Precipitation Frequency Data Server (PFDS), Atlas 14, as shown on Table 1. The PFDS requires a location to be entered and Google Earth was used to obtain the site location in latitude and longitude. The location entered into the PFDS is latitude 35.1525° N, longitude 106.7117° W.

| Table 1. NOAA Preapitation Depths (mattely) | | | | | | |
|---|-----------|--|--|--|--|--|
| Duration | 1000-vear | | | | | |
| 15-min | 1.01 | | | | | |
| 1-hr | 1.69 | | | | | |
| 2-hr | 1.93 | | | | | |
| 3-hr | 1.98 | | | | | |
| 6-hr | 2.15 | | | | | |
| 12-hr | 2.24 | | | | | |
| 24-hr | 2.49 | | | | | |

Existing Condition

The site is vacant, approximately 1.51 acres, and slopes south. A public utility easement is located on the south 7-feet of the property. The site is bound by Montano Road to the north, vacant lots to the east, developed residential lots to the south, and a dental office to the west. An offsite basin with an area of 0.8576 acres drains into the site at the southeast corner. This runoff and the runoff from the site drain to two gate openings located on Lot 6 and Lot 8 of Volcano Cliffs Subdivision, Unit 1. Approximately 2.56 cfs flows through these gates. Refer to Sheet C-3.2 for the existing basins. Refer to the table below for the predeveloped hydrologic results.

| <u></u> | Buble 3: 18 | ic develo | ped Livero | ज्ञाह (प्रेशक | Peak Disc | mige, and Volumenre | Runoff | |
|---------|-------------|-----------|------------|---------------|-----------|---------------------|--------------------------------|--|
| Basin | Area | Lang | Deamen | Percentag | (P/n) | Oloo-year ochour | VICO-year, Galoup (E19-111) | |
| *···· | (acres) | 4 | B | C * | D | | | |
| OS1 | 0.8576 | 0 | 100 | 0 | 0 | 1.85 | 0.052 | |
| 101 | 1.515 | 0 | 100 | 0 | 0 | 3.27 | 0.032 | |

Proposed Condition

The site will be developed into senior housing and will be constructed in two phases. This report only covers Phase I development. Phase I includes a 9,000 sq.ft. building, parking lot, water quality features, and a pond. Refer to sheets C-3.0 and C-3.2. Basin 201 will drain to the pond. Basin 202 under Phase I will remain 80% undeveloped and free discharge to the two gate openings.

There are no adverse implications to the two lots that receive runoff from Phase I development. The peak discharge through each gate opening is reduced from 2.56 to 2.18 CFS. The pond also retains the net volume from the existing to proposed condition. Refer to the table below for the post-developed hydrologic results.

| | Untitle 3: | Propose | dilydiolog | ie Daia, Pe | ak Diseh | प्रथं, वार्ष Volumette Ru | | |
|------|-------------|---------|------------|-------------|----------|---------------------------|-------|--|
| Bein | Area | ilain | Obeamen | श्वाववाष्ट | (PO) | Q000=year 6=hour | | |
| | (श्वाचाड) | £. | (3) | ? | D | (CEE) | | |
| 201 | 0.7185 | 0 | 11.5 | 8.5 | 80 | 2.72 | 0.100 | |
| 202 | 0.7959 | 0 | 0 | 80 | 20 | 2.49 | 0.100 | |

90th Percentile Storm

The City of Albuquerque's Drainage Ordinance 14-15-2-12 is met for this new development. The first flush will be routed through and retained in depressed landscaping. See Sheet C-3.3 for the depressed landscaping areas. Calculations below show compliance to Ordinance 14-15-2-12.

Basin 201

Land Treatment D Area = 25,014 sq.ft.

Water Quality Volume Needed = 25,014 sq. ft. (.34") * $\frac{1ft}{12}$ = 709 ft³ = 0.01627 ac-ft

Water Quality Volume provided in landscaping = 975 $sq.ft.(3")*\frac{1ft}{12"}=244 ft^3=0.00560$ ac-ft

Water Quality Volume provided in pond = $709 \text{ ft}^3 - 244 \text{ ft}^3 = 465 \text{ ft}^{32} = 0.01067 \text{ ac-ft}$

Therefore: Water Quality Volume Provided = Water Quality Volume Required

Basin 202

Land Treatment D Area = 6,465 sq.ft.

Water Quality Volume Needed = 6,465 sq. ft. (.34") * $\frac{1ft}{12"}$ = 183 ft³ = 0.00421 ac-ft

Water Quality Volume provided = 613 sq. ft. (4") * $\frac{1ft^{12}}{12"}$ = 204 ft³ = 0.00469 ac-ft

Therefore; Water Quality Volume Provided > Water Quality Volume Required

CONCLUSION

The proposed development meets the City's drainage requirements. Phase I does not increase the peak runoff volume nor peak discharge leaving the site. A grading & drainage plan will be submitted for Phase II. Phase II drainage will discharge approximately 2.56 cfs through each gate opening.

APPENDIXA



NOAA Atlas 14, Volume 1, Version 5 Location name: Albuquerque, New Mexico, US* Latitude: 35.1525°, Longitude: -106.7117° Elevation: 5136 ft*



* source: Google Maps

POINT PRECIPITATION FREQUENCY ESTIMATES

Sanja Perica, Sarah Dietz, Sarah Heim, Lillian Hiner, Kazungu Maitaria, Deborah Martin, Sandra Pavlovic, Ishani Roy, Carl Trypaluk, Dale Unruh, Fenglin Yan, Michael Yekta, Tan Zhao, Geoffrey Bonnin, Daniel Brewer, Li-Chuan Chen, Tye Parzybok, John Yarchoan

NOAA, National Weather Service, Silver Spring, Maryland

PF tabular | PF graphical | Maps & aerials

PF tabular

| Duration | | | | Avera | ige recurren | ce interval (| years) | <u> </u> | | |
|----------|-------------------------------|-------------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|-------------------------|
| | 1 | 2 | 5 | 10 | 25 | 50 | 100 | 200 | 500 | 1000 |
| 5-min | 0.159 (0.136-0.186) | 0.206 (0.176-0.241) | 0.278 (0.235-0.325) | 0.335 (0.284-0.391) | 0.411 (0.347-0.480) | 0.472 (0.397-0.549) | 0.536 (0.448-0.623) | 0.605 (0.501-0.703) | 0.698 (0.573-0.813) | 0.772 |
| 40 min | 0.242 | 0.314 | 0.423 | 0.509 | 0.626 | 0.718 | 0.817 | 0.924 | 1.06 (0.872-1.24) | 4 4 0 |
| ŧ | 0.200 | 0.000 | 0.00 | | | | | | 1.32 (1.08-1.53) | |
| 20_min | 0.703 | 0.524 | U./UO | U.85U | 1.05 (0.882-1.22) | 1 1.20 i | 1 136 | 1 54 | 1.77 (1.46-2.06) | 1.96 (1.60-2.28) |
| 60-min | 0.499 (0.428-0.584) | 0.648 (0.552-0.758) | 0.873 (0.740-1.02) | 1.05 (0.894-1.23) | 1.29 (1.09-1.51) | 1.48 (1.25-1.73) | 1.69 (1.41-1.96) | 1.90 (1.58-2.21) | 2.19 (1.80-2.55) | 2.43 (1.98-2.83) |
| 2-hr | 0.585 (0.503-0.680) | 0.747 (0.641-0.870) | 0.992 (0.848-1.15) | 1.19 (1,01-1.37) | 1.47 (1.24-1.68) | 1.69 (1.42-1.94) | 1.93 (1.61-2.21) | 2.18 (1.80-2.49) | 2.53 (2.08-2.90) | 2.82 (2.29-3.23) |
| 3-hr | 0.620 (0.543-0.720) | 0.790 (0.689-0.918) | 1.04 (0.908-1.20) | 1.24 (1.08-1.43) | 1.51 (1.30-1.74) | 1.74 (1.49-2.00) | 1.98 (1.69-2.27) | 2.24 (1.89-2.57) | 2.59 (2.16-2.98) | 2.88 (2.38-3.32) |
| 6-hr | 0.717 (0.630-0.823) | 0.909 (0.802-1.04) | 1.18 (1.04-1.35) | 1.39 (1.22-1.59) | 1.68 (1.47-1.92) | 1.91 (1.66-2.17) | 2.15 (1.85-2.44) | 2.40 (2.05-2.72) | 2.75 (2.33-3.13) | 3.04 (2.55-3.47) |
| 12-hr | 0.793 (0.702-0.897) | 1.00 (0.886-1.13) | 1.28 (1.12-1.44) | 1.50 (1.31-1.69) | 1.78 (1.56-2.01) | 2.01 (1.75-2.26) | 2.24 (1.94-2.52) | 2.49 (2.14-2.80) | 2.82 (2.40-3.17) | 3.09 (2.61-3.49) |
| 24-hr | 0.917 (0.810-1.04) | 1.15 (1.02-1.31) | 1.45 (1.28-1.64) | 1.68 (1.48-1.90) | 1.99 (1.75-2.26) | 2.24 (1.96-2.52) | 2.49 (2.17-2.81) | 2.75 (2.38-3.09) | 3.10 (2.67-3.48) | 3.37 (2.89-3.79) |
| 2-day | 0.947 (0.845-1.06) | 1.19 (1.06-1.33) | 1.49 (1.33-1.66) | 1.72 (1.53-1.92) | 2.04 (1.81-2.27) | 2.28 (2.02-2.54) | 2.53 (2.23-2.82) | 2.78 (2.44-3.10) | 3.12 (2.73-3.51) | 3.39 (2.94-3.82) |
| 3-day | 1.10 (0.993-1.21) | 1.37 (1.24-1.51) | 1.69 (1.53-1.87) | 1.95 (1.76-2.15) | 2.29 (2.06-2.52) | 2.55 (2.29-2.81) | 2.81 (2.52-3.10) | 3.08 (2.75-3.39) | 3.44 (3.05-3.80) | 3.71 |
| 4-day | 1.25 (1.14-1.36) | 1.55 (1.42-1.69) | 1.90 (1.73-2.07) | 2.17 (1.98-2.37) | 2.54 (2.31-2.77) | 2.82 (2.56-3.08) | 3.10 (2.81-3.38) | 3.38 (3.06-3.68) | 3.75 (3.38-4.09) | 4.03 (3.61-4.40) |
| 7-day | 1.43 (1.30-1.55) | 1.77 (1.62-1.92) | 2.15 (1.97-2.33) | 2.44 (2.24-2.65) | 2.83 (2.59-3.07) | 3.12 (2.85-3.38) | 3.40 (3.11-3.69) | 3.68 (3.35-3.98) | 4.03 (3.67-4.37) | 4.29 (3.89-4.66) |
| 10-day | 1.58 (1.45-1.72) | 1.95 (1.80-2.13) | 2.39 (2.20-2.59) | 2.73 (2.51-2.96) | 3.18 (2.92-3.43) | 3.51 | 3.85 (3.52-4.16) | 4.18 (3.81-4.51) | 4.60 (4.18-4.97) | 4.91 (4.45-5.32) |
| 20-day | 1.97 (1.80-2.15) | 2.44 (2.24-2.66) | 2.96 (2.72-3.22) | 3.35 (3.08-3.64) | 3.85 (3.53-4.17) | 4.21 | 4.55 | 4.88 (4.45-5.27) | 5.28 (4.81-5.71) | 5.56 (5.06-6.02) |
| 30-day | 2.35 (2.15-2.54) | 2.91 (2.67-3.15) | 3.49 (3.21-3.78) | 3.93 (3.60-4.24) | 4.46 (4.10-4.81) | 4.84 | 5.20 | 5.54 | 5.93 | 6.20 (5.67-6.68) |
| 45-day | 2.87 (2.65-3.10) | 3.55 (3.28-3.84) | 4.22 (3.90-4.56) | 4.70 (4.34-5.07) | 5.28 (4.87-5.69) | 5.67 | 6.02 | 6.32 (5.84-6.80) | 6.65 (6.15-7.15) | 6.84 (6.35-7.35) |
| 60-day | 3.29 | 4.08 | 4.85 | 5.40 | 6.06 | 6.51 | 6.92 | 7.27 | 7.67 | 7.91 |

Precipitation frequency (PF) estimates in this table are based on frequency analysis of partial duration series (PDS).

Numbers in parenthesis are PF estimates at lower and upper bounds of the 90% confidence interval. The probability that precipitation frequency estimates (for a given duration and average recurrence interval) will be greater than the upper bound (or less than the lower bound) is 5%. Estimates at upper bounds are not checked against probable maximum precipitation (PMP) estimates and may be higher than currently valid PMP values.

Please refer to NOAA Atlas 14 document for more information.

Back to Top

```
*S BEEHIVE LOTS 0-26 TO 0-31
*S Drainage Basin Analysis
*S "Existing" CONDITION MODEL
*S COMBINED BASIN ANALYSIS
START
                  TIME=0.0 PUNCH CODE=0 PRINT CODE=0
LOCATION
                  City of Albuquerque
* RAINFALL FROM NOAA COA DEVELOPMENT PROCESS MANUAL
*S
       RAINFALL DATA FROM NOAA ATLAS 14
   100 YEAR 6HR STORM EXISTING CONDITION
RAINFALL
                      TYPE=1
                      QUARTER=1.01 IN
                      HOUR= 1.69 IN
                      SIX HR= 2.15 IN
                            2.49 IN
                      DAY=
                                      DT=0.01
****Adding Sediment Bulk Factor to all Basins
SEDIMENT BULK CODE=1 BULK FACTOR=1.00
*** BASIN OS1 ****
COMPUTE LT TP
                      LCODE=1 UPLAND/LAG TIME METHOD
                     NK=1 ISLOPE=1
                      LENGTH=315 FT SLOPE=0.015 K=0.7
                      KN=0.05 CENTROID DIST=.5
COMPUTE NM HYD
                          HYD NO=OS1 DA=0.00134 SQ MI
                      ID=1
                     PER A=0 PER B=100 PER C=0 PER D=0
                     TP=0.0 MASSRAIN=-1
*
PRINT HYD
                           CODE=1
                     ID=1
*** BASIN 101 ****
*
COMPUTE LT TP
                     LCODE=1 UPLAND/LAG TIME METHOD
                     NK=1 ISLOPE=1
                     LENGTH=315 FT SLOPE=0.01
                                              K=0.7
                     KN=0.05 CENTROID DIST=.5
COMPUTE NM HYD
                     ID=2 HYD NO=101 DA=0.00237 SQ MI
                     PER A=0 PER B=100 PER C=0 PER D=0
                     TP=0.0 MASSRAIN=-1
*
PRINT HYD
                           CODE=1
                     ID=2
* Total Flow from Basin (OS1 + 101)
ADD HYD
                     ID=1 HYD NO=101SUM ID I=1
                                              ID II=2
PRINT HYD
                           CODE=1
                     ID=1
*
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| | HYDROGRAPH | FROM ID | TO ID | AREA | PEAK DISCHARGE | RUNOFF VOLUME | RUNOFF | TIME TO PEAK | CFS PER | PAGE = | = 1 |
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| S BEEHIVE | LOTS 0-26 TO 0-31 | | | | | | | | | | |
| S Drainage | Basin Analysis | | | | | | | | | | |
| S "Existing | " CONDITION MODEL | | | | | | | | | | |
| S COMBINED | BASIN ANALYSIS | | | | | | | | | | |
| TART | | | | | | | | | | TIME= | 0.00 |
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| S | | | | A ATLAS 14 | | | | | | | |
| | *********** | | | ****** | ****** | **** | | | | | |
| | 6HR STORM EXISTI | NG CON | DITION | | | | | | | | |
| AINFALL TY | PE= 1 NOAA 14 | | | | | | | | | RAIN6= | 2.156 |
| | .K | | | | | | | | | PK BF = | 1.00 |
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| EDIMENT BUL | IYD OS1 | | 1 2 | | | 0.052 0.092 | 0.72521 0.72521 | 1.540 1.540 | _ | PER IMP= PER IMP= | 0.00 0.00 |

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*S BEEHIVE LOTS 0-26 TO 0-31
*S Drainage Basin Analysis
*S "Proposed" CONDITION MODEL
*S COMBINED BASIN ANALYSIS
START
                 TIME=0.0 PUNCH CODE=0 PRINT CODE=0
LOCATION
                 City of Albuquerque
* RAINFALL FROM NOAA COA DEVELOPMENT PROCESS MANUAL
*S
       RAINFALL DATA FROM NOAA ATLAS 14
   100 YEAR 6HR STORM PROPOSED CONDITION
RAINFALL
                     TYPE=1
                    QUARTER=1.01 IN
                    HOUR= 1.69 IN
                    SIX HR= 2.15 IN
                          2.49 IN DT=0.01
                    DAY=
****Adding Sediment Bulk Factor to all Basins
SEDIMENT BULK CODE=1 BULK FACTOR=1.00
*** BASIN OS1 ****
*
COMPUTE LT TP
                    LCODE=1
                             UPLAND/LAG TIME METHOD
                    NK=1 ISLOPE=1
                     .ENGTH=315 FT
                                 SLOPE=0.015 K=0.7
                    KN=0.05 CENTROID DIST=.5
COMPUTE NM HYD
                    ID=1 HYD NO=OS1
                                    DA=0.00134 SQ MI
                    PER A=0 PER B=100 PER C=0 PER D=0
                    TP=0.0
                           MASSRAIN=-1
*
PRINT HYD
                          CODE=1
                    ID=1
*
*** BASIN 201 ****
*
COMPUTE LT TP
                    LCODE=1 UPLAND/LAG TIME METHOD
                    NK=2 ISLOPE=1
                    LENGTH=100 FT SLOPE=0.06
                                               K = 0.7
                    LENGTH=240 FT SLOPE=0.005
                                               K=2.0
                    KN=0.05 CENTROID DIST=.5
COMPUTE NM HYD
                    ID=2 HYD NO=201 DA=0.00112 SQ MI
                    PER A=0 PER B=11.5 PER C=8.5 PER D=80
                    TP=0.0
                           MASSRAIN=-1
PRINT HYD
                          CODE=1
                    ID=2
*
```

16220P

| * \$ | Route | through | Pond. | WQ | Volume | from | 5135.3 | to | 5135.6 | 50 | =0.011 | ac-ft |
|-------------|-------|---------|-------|----|--------|------|--------|----|--------|----|--------|-------|
|-------------|-------|---------|-------|----|--------|------|--------|----|--------|----|--------|-------|

| ROUTE RESERVOIR | ID=30 HYD NO=Po | ond INFLOW ID=2 CODE= | =1 |
|-----------------|-----------------|-----------------------|---------|
| | OUTFLOW (CFS) | STORAGE (AC FT) | ELEV |
| | 0.0 | 0.00 | 5135.60 |
| | 0.01 | 0.039 | 5136.60 |
| | 0.02 | 0.077 | 5137.60 |
| | 0.15 | 0.093 | 5138.00 |
| | 0.25 | 0.097 | 5138.10 |
| | 0.40 | 0.104 | 5138.30 |
| | | | |

ጥ

* Total Flow from Basin (OS1 + 201)

ADD HYD ID=1 HYD NO=201SUM ID I=1 ID II=30

PRINT HYD ID=1 CODE=1

*

*** BASIN 202 ****

*

COMPUTE LT TP LCODE=1 UPLAND/LAG TIME METHOD

NK=1 ISLOPE=1

LENGTH=250 FT SLOPE=0.01 K=0.7

KN=0.05 CENTROID DIST=.5

COMPUTE NM HYD ID=2 HYD NO=202 DA=0.001244 SQ MI

PER A=0 PER B=0 PER C=80 PER D=20

TP=0.0 MASSRAIN=-1

*

PRINT HYD ID=2 CODE=1

*

* Total Flow from Basin (201SUM + 202)

ADD HYD

ID=1 HYD NO=202SUM ID I=1 ID II=2

PRINT HYD ID=1 CODE=1

*

*

FINISH

440000 410000

| | | | | | 16220P AHYMO | | | | | | |
|---|---|---------------------------|--------------------|-------------------------------------|---|-------------------------------|--------------------|----------------------------|-------------------------|-----------------|----------------|
| AHYMO PROGRA | AM SUMMARY TABLE (| AHYMO- | 54) | | | S4.01a, Rel | | | • | /YR) =09/0 | |
| INPUT FILE = | = \\Seagate-4004ED | \Publi | .c\PROJ | JECTS\SURVEYIN | IG\162020\AE DA | TA\AHYMO\162 | 20P.txt | ISER NO.= | Fierro-N | MSingleA32 | 007641 |
| | | | | | | | | ~~ #A | CEC | DACE | 4 |
| | | FROM | TO | | PEAK | RUNOFF | 5111055 | TIME TO | CFS | PAGE = | 1 |
| | HYDROGRAPH | ID | ID | AREA | DISCHARGE | VOLUME | RUNOFF | PEAK | PER | MOTATT | ON . |
| COMMAND | IDENTIFICATION | NO. | NO. | (SQ MI) | (CFS) | (AC-FT) | (INCHES) | (HOURS) | ACRE | NOTATI | UN |
| *S BEEHIVE | LOTS 0-26 TO 0-31 | | | | | | | | | | |
| | e Basin Analysis | | | | | | | | | | |
| | d" CONDITION MODEL | | | | | | | | | | |
| • | D BASIN ANALYSIS | | | | | | | | | | |
| START | | | | | | | | | | TIME= | 0.00 |
| LOCATION | | DEFA | ULT | | | | | | | | |
| * S | | | | DAA ATLAS 14 | | | | | | | |
| *5****** | ********* | ***** | ***** | ****** | ********** | ***** | | | | | |
| *S 100 YEAR | R 6HR STORM PROPOS | SED CON | DITIO | Vi | | | | | | | |
| RAINFALL TY | YPE= 1 NOAA 14 | | | | | | | | | RAIN6= | 2.150 |
| SEDIMENT BUI | | | | | | | | | | PK BF = | 1.00 |
| | ****** | | | | | | | | | | |
| *S****** | ****** | ***** | ***** | ****** | ****** | ***** | | | | | |
| COMPLITE NA I | 11VD 0C1 | | 1 | 0.00134 | 1.85 | 0.052 | 0.72521 | 1.540 | 2.157 | PER IMP= | 0.00 |
| COMPUTE NM I | HYD OS1 | - | | | | | | | | | |
| COMPUTE NM I | HYD 201.00 | - | 2 | 0.00112 | 2.72 | 0.100 | 1.68104 | 1.530 | 3.799 | PER IMP= | 80.00 |
| COMPUTE NM I | | - | 2 From 5: | 0.00112 | 2.72 | 0.100 ft | | | | | |
| COMPUTE NM I | HYD 201.00 hrough Pond. WQ Vo | - | 2 From 5: 30 | 0.00112 | 2.72 .60 =0.011 ac-1 0.12 | 0.100 ft 0.063 | 1.04912 | 2.430 | 0.164 | AC-FT= | 80.00 0.089 |
| COMPUTE NM H *S Route th | HYD 201.00 hrough Pond. WQ Vo | - olume 1 2 | 30 | 0.00112 135.3 to 5135 | 2.72 .60 =0.011 ac-1 0.12 1.86 | 0.100 ft 0.063 0.114 | 1.04912 0.87266 | 2.43 0 1.540 | 0.164 1.182 | AC-FT= | 0.089 |
| COMPUTE NM H *S Route th ROUTE RESERV | HYD 201.00 hrough Pond. WQ Vo VOIR Pond 201SUM | - olume 1 2 1&30 | 30 1 2 | 0.00112 135.3 to 5135 0.00112 | 2.72 .60 =0.011 ac-1 0.12 | 0.100 ft 0.063 | 1.04912 | 2.430 | 0.164 1.182 3.134 | AC-FT= PER IMP= | 0.089 |

FINISH

APPENDIXB

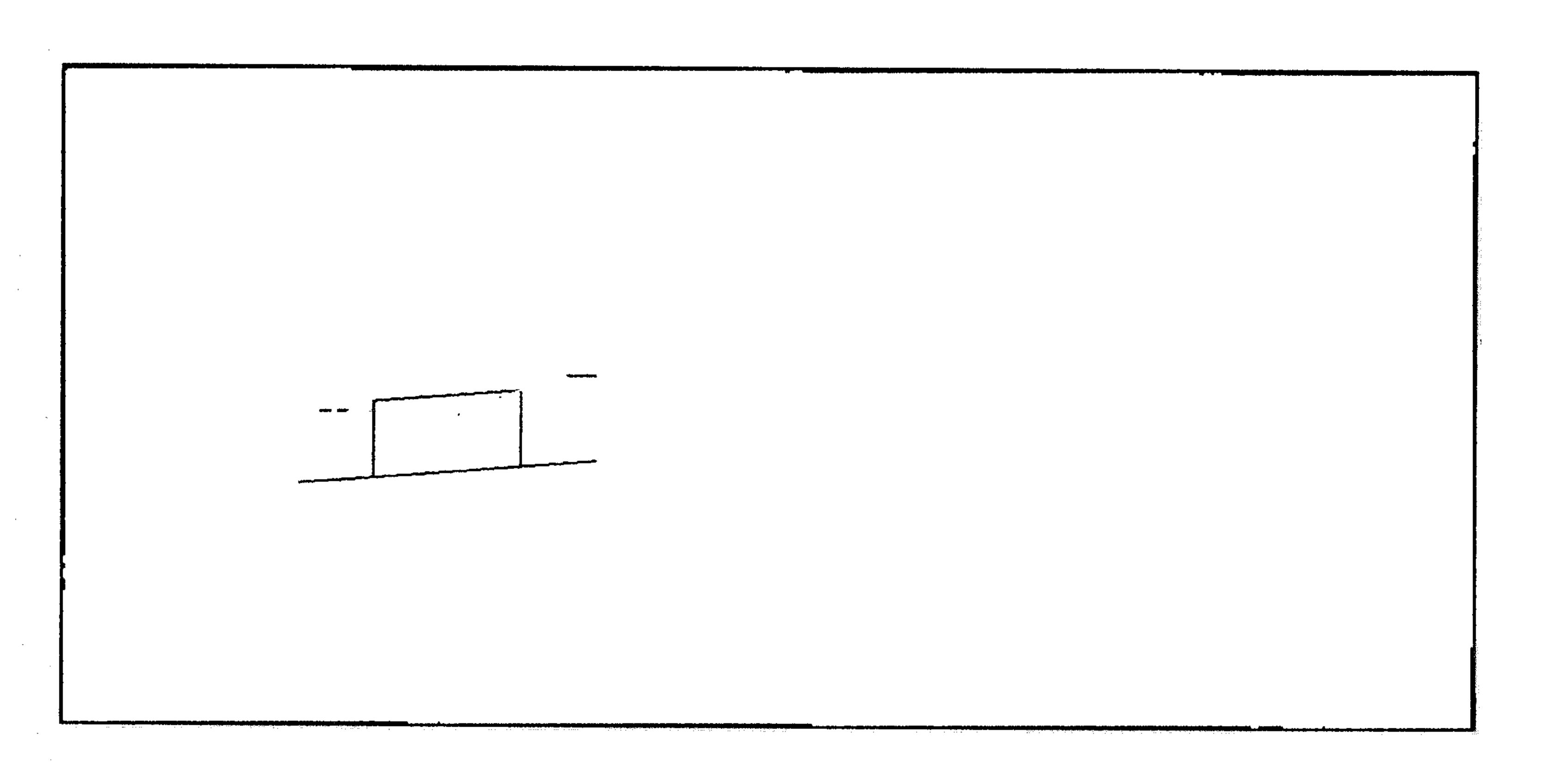
Culvert Report

Hydraflow Express Extension for AutoCAD® Civil 3D® 2013 by Autodesk, Inc.

Friday, Sep 9 2016

4in PVC Pond Outlet

| Invert Elev Dn (ft) | = 5137.60 | Calculations | |
|---------------------|----------------------------------|---------------------|-----------------|
| Pipe Length (ft) | = 2.00 | Qmin (cfs) | = 0.00 |
| Slope (%) | = 2.49 | Qmax (cfs) | = 0.50 |
| Invert Elev Up (ft) | = 5137.65 | Tailwater Elev (ft) | = (dc+D)/2 |
| Rise (in) | = 4.0 | | |
| Shape | = Circular | Highlighted | |
| Span (in) | = 4.0 | Qtotal (cfs) | = 0.20 |
| No. Barrels | = 1 | Qpipe (cfs) | = 0.20 |
| n-Value | = 0.012 | Qovertop (cfs) | = 0.00 |
| Culvert Type | = Circular Culvert | Veloc Dn (ft/s) | = 2.46 |
| Culvert Entrance | = Smooth tapered inlet throat | Veloc Up (ft/s) | = 2.79 |
| Coeff. K,M,c,Y,k | = 0.534, 0.555, 0.0196, 0.9, 0.2 | HGL Dn (ft) | = 5137.89 |
| | | HGL Up (ft) | = 5137.91 |
| Embankment | | Hw Elev (ft) | = 5138.05 |
| Top Elevation (ft) | = 5138.30 | Hw/D (ft) | = 1.20 |
| Top Width (ft) | = 1.00 | Flow Regime | = Inlet Control |
| Crest Width (ft) | = 3.00 | | |
| | | | |



CITY OF ALBUQUERQUE



July 25, 2016

Richard R. Bennett RBA Architecture, PC 1104 Park Ave., SW Albuquerque, NM

Re: Beehive at Montano

Traffic Circulation Layout

Engineer's/Architect's Stamp dated 7-12-16 (E10-D027)

Dear Mr. Bennett,

The TCL submittal received 07-25-16 is approved for Building Permit. A copy of the stamped and signed plan will be needed for each of the building permit plans. Please keep the original to be used for certification of the site for final C.O. for Transportation.

When the site construction is completed and a Certificate of Occupancy (C.O.) is requested, use the original City stamped approved TCL for certification. Redline any minor changes and adjustments that were made in the field. A NM registered architect or engineer must stamp, sign, and date the certification TCL along with indicating that the development was built in "substantial compliance" with the TCL. Submit this certification TCL with a completed <u>Drainage and Transportation Information Sheet</u> to front counter personnel for log in and evaluation by Transportation.

Albuquerque

PO Box 1293

Once verification of certification is completed and approved, notification will be made to Building Safety to issue Final C.O. To confirm that a final C.O. has been issued, call Building Safety at 924-3690.

New Mexico 87103

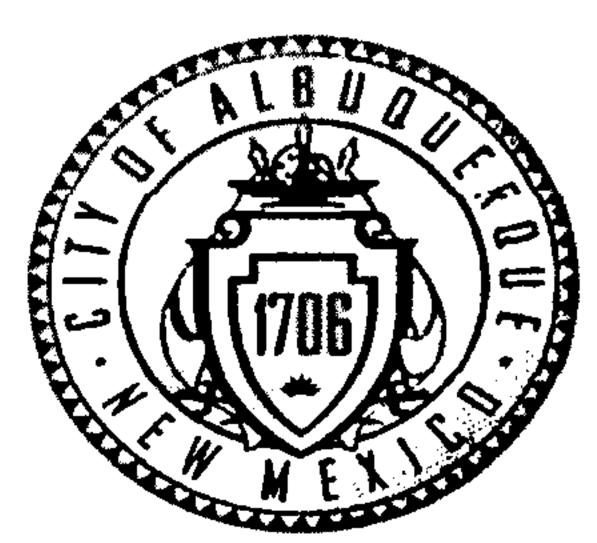
Sincerely,

www.cabq.gov

Racquel M. Michel, P.E.

Traffic Engineer, Planning Dept. Development Review Services

mao via: email C: CO Clerk, File



City of Albuquerque

Planning Department

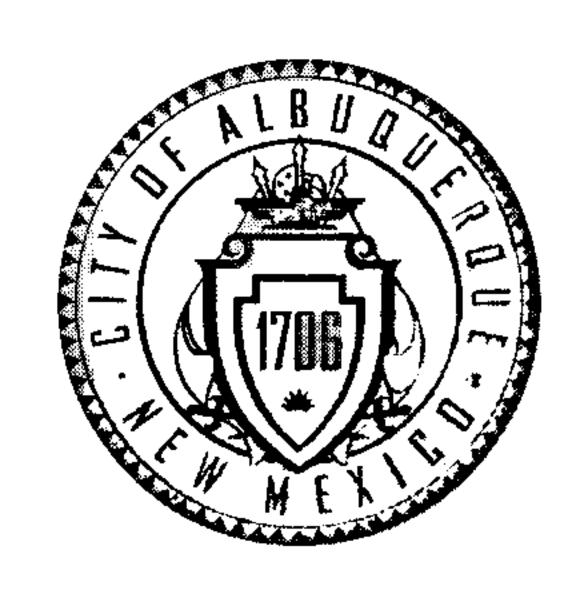
Development & Building Services Division

DRAINAGE AND TRANSPORTATION INFORMATION SHEET (REV 09/2015)

| | Building Permit #: City Drainage #: ElODC |
|---|--|
| Project Title: Beehive at Montano | |
| DRB#: EPC#: | Work Order#: |
| Legal Description: Lots 0-26 through 0-31, Volcano Cliffs, City Address: 6230 Montano Rd NW Abq, Nm 87120 | |
| City Address: 0230 Montano Na 1444 Abq, Mill 67 120 | |
| Engineering Firm: | Contact: |
| Address: | |
| Phone#: Fax#: | E-mail: |
| Owner: | Contact: |
| Address: | |
| Phone#: Fax#: | E-mail: |
| A 1 '4 4 DDA A salaita atuma DO | |
| Architect: RBA Architecture, PC | Contact: David |
| Address: 1104 Park Ave Sw Albuquerque, NM 87102 Phone#: 242-1859 Fax#: | E maile dovid@cho91.com |
| Phone#: 242-1859 Fax#: | E-mail: david@rba81.com |
| Other Contact: | Contact: |
| Address: | |
| Phone#: Fax#: | E-mail: |
| Check all that Apply: DEPARTMENT: HYDROLOGY/ DRAINAGE | CHECK TYPE OF APPROVAL/ACCEPTANCE SOUGHT: BUILDING PERMIT APPROVAL |
| TRAFFIC/ TRANSPORTATION MS4/ EROSION & SEDIMENT CONTROL | CERTIFICATE OF OCCUPANCY |
| MIS II DICOSIOII & SEDIMIBILI CONTROL | |
| TYPE OF SUBMITTAL: | PRELIMINARY PLAT APPROVAL |
| ENGINEER/ ARCHITECT CERTIFICATION | SITE PLAN FOR SUB'D APPROVAL |
| CONCEDENTIAL C & D DI ANI | SITE PLAN FOR BLDG. PERMIT APPROVAL |
| CONCEPTUAL G & D PLAN GRADING PLAN | FINAL PLAT APPROVAL |
| DRAINAGE MASTER PLAN | SIA/ RELEASE OF FINANCIAL GUARANTEE (|
| DRAINAGE REPORT | FOUNDATION PERMIT APPROVAL GRADING PERMIT APPROVAL FOUNDATION PERMIT APPROVAL FOUNDATION PERMIT APPROVAL |
| CLOMR/LOMR | SO-19 APPROVAL |
| X TRAFFIC CIRCULATION LAYOUT (TCL) | PAVING PERMIT APPROVAL 1 2016 |
| TRAFFIC IMPACT STUDY (TIS) | GRADING/ PAD CERTIFICATION WORK ORDER APPROVAL ORDER SECTION |
| EROSION & SEDIMENT CONTROL PLAN (ESC | |
| OTHER (SPECIFY) | PRE-DESIGN MEETING DOWN TO COMMENTED TO COME |
| IS THIS A RESUBMITTAL?: X Yes No | |
| DATE SUBMITTED: 7-21-2016 | By: David McEachern |

COA STAFF: ELECTRONIC SUBMITTAL RECEIVED: ____

CITY OF ALBUQUERQUE



July 20, 2016

David McEachern RBA Architecture, PC 1104 Park Ave., SW Albuquerque, NM

Re: Beehive at Montano

Traffic Circulation Layout

Engineer's/Architect's Stamp dated 7-19-16 (E10-D027)

Dear Mr. McEachern,

Based upon the information provided in your submittal received 7-19-16, the above referenced plan cannot be approved for Building Permit until the following comments are addressed:

- Please review and revise plan to align the north east curb cut on Montano Rd. to the existing medians.
- 2. Please include two copies of the traffic circulation layout at the next submittal.

PO Box 1293

Resubmit acceptable package along with fully completed Drainage Transportation Information Sheet to front counter personnel for log in and evaluation by Transportation. If you have any questions, please contact Monic Ortiz (505) 924-3981 or me at 924-3991.

Albuquerque

Sincerely,

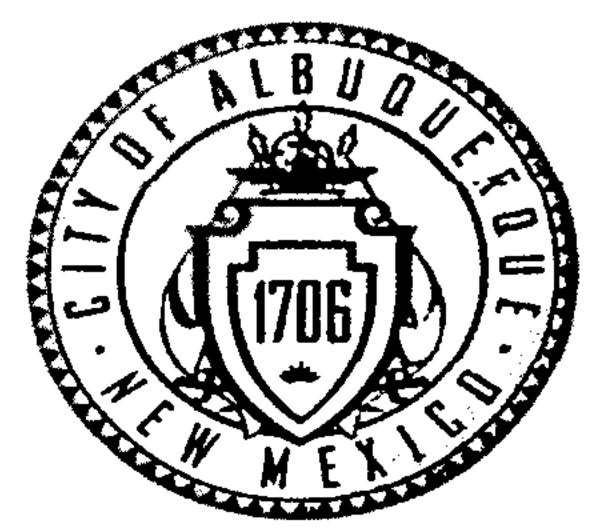
New Mexico 87103

Racquel M. Michel, P.E.

Traffic Engineer, Planning Dept. Development Review Services

www.cabq.gov

\gs via: email C: CO Clerk, File



City of Albuquerque

Planning Department

Development & Building Services Division

DRAINAGE AND TRANSPORTATION INFORMATION SHEET (REV 09/2015)

| I 1 (J L) #+ | EDC#. | Building Permit #: City Drainage #: £10000 Work Order#: |
|--|---|---|
| DRB#: | rough 0.31 Volcano Cliffo I Init 1 | WOIK OIGH. |
| City Address: | rough 0-31, Volcano Cliffs, Unit 1 | · - *** - · · · |
| Engineering Firm: | | Contact: |
| Address: | | |
| Phone#: | Fax#: | E-mail: |
| Owner: | | Contact: |
| Address: | | |
| hone#: | Fax#: | E-mail: |
| Architect: RBA Architecture, F | PC | Contact: David |
| | buquerque, NM 87102 | |
| hone#: 242-1859 | Fax#: | E-mail: david@rba81.com |
| Other Contact: | | Contact: |
| Address: | | |
| Phone#: | Fax#: | E-mail: |
| TRAFFIC/ TRANSPORT MS4/ EROSION & SEDI | | CERTIFICATE OF OCCUPANCY |
| | | |
| TYPE OF SUBMITTAL: ENGINEED / ADCHITECT CEDTIFIC ATION | | DDCINANIADY DIATADDDAYAI |
| ENGINEER/ARCHITECT | T CERTIFICATION | PRELIMINARY PLAT APPROVAL |
| ENGINEER/ ARCHITECT | T CERTIFICATION | SITE PLAN FOR SUB'D APPROVAL |
| | | SITE PLAN FOR SUB'D APPROVAL SITE PLAN FOR BLDG. PERMIT APPROVAL |
| ENGINEER/ ARCHITECT CONCEPTUAL G & D P GRADING PLAN | | SITE PLAN FOR SUB'D APPROVAL SITE PLAN FOR BLDG. PERMIT APPROVAL FINAL PLAT APPROVAL |
| CONCEPTUAL G & D P | LAN | SITE PLAN FOR SUB'D APPROVAL SITE PLAN FOR BLDG. PERMIT APPROVAL FINAL PLAT APPROVAL SIA/ RELEASE OF FINANCIAL GUARANTEE |
| CONCEPTUAL G & D P GRADING PLAN | LAN | SITE PLAN FOR SUB'D APPROVAL SITE PLAN FOR BLDG. PERMIT APPROVAL FINAL PLAT APPROVAL |
| CONCEPTUAL G & D P GRADING PLAN DRAINAGE MASTER PI | LAN | SITE PLAN FOR SUB'D APPROVAL SITE PLAN FOR BLDG. PERMIT APPROVAL FINAL PLAT APPROVAL SIA/ RELEASE OF FINANCIAL GUARANTEE FOUNDATION PERMIT APPROVAL |
| CONCEPTUAL G & D P GRADING PLAN DRAINAGE MASTER PI DRAINAGE REPORT CLOMR/LOMR | LAN | SITE PLAN FOR SUB'D APPROVAL SITE PLAN FOR BLDG. PERMIT APPROVAL FINAL PLAT APPROVAL SIA/ RELEASE OF FINANCIAL GUARANTEE FOUNDATION PERMIT APPROVAL GRADING PERMIT APPROVAL SO-19 APPROVAL PAVING PERMIT APPROVAL |
| CONCEPTUAL G & D P GRADING PLAN DRAINAGE MASTER PI DRAINAGE REPORT CLOMR/LOMR X TRAFFIC CIRCULATION | LAN N LAYOUT (TCL) | SITE PLAN FOR SUB'D APPROVAL SITE PLAN FOR BLDG. PERMIT APPROVAL FINAL PLAT APPROVAL SIA/ RELEASE OF FINANCIAL GUARANTEE FOUNDATION PERMIT APPROVAL GRADING PERMIT APPROVAL SO-19 APPROVAL PAVING PERMIT APPROVAL GRADING/ PAD CERTIFICATION |
| CONCEPTUAL G & D P GRADING PLAN DRAINAGE MASTER PI DRAINAGE REPORT CLOMR/LOMR * TRAFFIC CIRCULATION TRAFFIC IMPACT STUIL | PLAN LAN N LAYOUT (TCL) DY (TIS) | SITE PLAN FOR SUB'D APPROVAL SITE PLAN FOR BLDG. PERMIT APPROVAL FINAL PLAT APPROVAL SIA/ RELEASE OF FINANCIAL GUARANTEE FOUNDATION PERMIT APPROVAL GRADING PERMIT APPROVAL SO-19 APPROVAL PAVING PERMIT APPROVAL GRADING/ PAD CERTIFICATION WORK ORDER APPROVAL 1 9 2016 |
| CONCEPTUAL G & D P GRADING PLAN DRAINAGE MASTER PI DRAINAGE REPORT CLOMR/LOMR * TRAFFIC CIRCULATION TRAFFIC IMPACT STUD | PLAN LAN N LAYOUT (TCL) DY (TIS) | SITE PLAN FOR SUB'D APPROVAL SITE PLAN FOR BLDG. PERMIT APPROVAL FINAL PLAT APPROVAL SIA/ RELEASE OF FINANCIAL GUARANTEE FOUNDATION PERMIT APPROVAL GRADING PERMIT APPROVAL SO-19 APPROVAL PAVING PERMIT APPROVAL GRADING/ PAD CERTIFICATION WORK ORDER APPROVAL CLOMR/LOMR |
| CONCEPTUAL G & D P GRADING PLAN DRAINAGE MASTER PI DRAINAGE REPORT CLOMR/LOMR * TRAFFIC CIRCULATION TRAFFIC IMPACT STUD | PLAN LAN N LAYOUT (TCL) DY (TIS) | SITE PLAN FOR SUB'D APPROVAL SITE PLAN FOR BLDG. PERMIT APPROVAL FINAL PLAT APPROVAL SIA/ RELEASE OF FINANCIAL GUARANTEE FOUNDATION PERMIT APPROVAL GRADING PERMIT APPROVAL SO-19 APPROVAL PAVING PERMIT APPROVAL GRADING/ PAD CERTIFICATION WORK ORDER APPROVAL CLOMR/LOMR |
| CONCEPTUAL G & D P GRADING PLAN DRAINAGE MASTER PI DRAINAGE REPORT CLOMR/LOMR X TRAFFIC CIRCULATION TRAFFIC IMPACT STUDE EROSION & SEDIMENT | PLAN LAN N LAYOUT (TCL) DY (TIS) | SITE PLAN FOR SUB'D APPROVAL SITE PLAN FOR BLDG. PERMIT APPROVAL FINAL PLAT APPROVAL SIA/ RELEASE OF FINANCIAL GUARANTEE FOUNDATION PERMIT APPROVAL GRADING PERMIT APPROVAL SO-19 APPROVAL PAVING PERMIT APPROVAL GRADING/ PAD CERTIFICATION WORK ORDER APPROVAL CLOMR/LOMR |
| CONCEPTUAL G & D P GRADING PLAN DRAINAGE MASTER PI DRAINAGE REPORT CLOMR/LOMR X TRAFFIC CIRCULATION TRAFFIC IMPACT STULE EROSION & SEDIMENT | PLAN LAN N LAYOUT (TCL) DY (TIS) T CONTROL PLAN (ESC) | SITE PLAN FOR SUB'D APPROVAL SITE PLAN FOR BLDG. PERMIT APPROVAL FINAL PLAT APPROVAL SIA/ RELEASE OF FINANCIAL GUARANTEE FOUNDATION PERMIT APPROVAL GRADING PERMIT APPROVAL SO-19 APPROVAL PAVING PERMIT APPROVAL GRADING/ PAD CERTIFICATION WORK ORDER APPROVAL CLOMR/LOMR PRE-DESIGN MEETING LAND DEVELOPMENT SECTION |



City of Albuquerque

Planning Department

Development & Building Services Division

DRAINAGE AND TRANSPORTATION INFORMATION SHEET (REV 09/2015)

| Project Title: Beehive at Montano | Building Permit #: | City Drainage #: <u>F10Do</u> | |
|---|--|---|--|
| DRB#: EPC#: | | Work Order#: | |
| Legal Description: Lots 0-26 through 0-31, Volcano Cliffs, Unit 1 | | | |
| City Address: | | · · · · · · · · · · · · · · · · · · · | |
| Engineering Firm: | | Contact: | |
| Address: | · · · · · · · · · · · · · · · · · · · | | |
| Phone#: Fax#: | | E-mail: | |
| Owner: | | Contact: | |
| Address: | | | |
| Phone#: Fax#: | | E-mail: | |
| Architect: RBA Architecture, PC | | Contact: David | |
| Address: 1104 Park Ave Sw Albuquerque, NM 87102 | | • · · · · · · · · · · · · · · · · · · · | |
| Phone#: 242-1859 Fax#: | · · · | E-mail: david@rba81.com | |
| Other Contact: | | Contact: | |
| Address: | | | |
| Phone#: Fax#: | | E-mail: | |
| Check all that Apply: DEPARTMENT: HYDROLOGY/ DRAINAGE TRAFFIC/ TRANSPORTATION MS4/ EROSION & SEDIMENT CONTROL | BUILDING P | APPROVAL/ACCEPTANCE SOUGHT: PERMIT APPROVAL TE OF OCCUPANCY | |
| TYPE OF SUBMITTAL: | | | |
| ENGINEER/ ARCHITECT CERTIFICATION | PRELIMINARY PLAT APPROVAL SITE DI ANI EOD SLID'D ADDROVAI | | |
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| CONCEPTUAL G & D PLAN | FINAL PLAT APPROVAL | | |
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| DRAINAGE MASTER PLAN | | FOUNDATION PERMIT APPROVAL | |
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| Y TENANTIC OTE CITE ATTONIA AND THE ATTONIA | PAVING PERMIT APPROVAL | | |
| X TRAFFIC CIRCULATION LAYOUT (TCL) | | GRADING/ PAD CERTIFICATION | |
| TRAFFIC IMPACT STUDY (TIS) EROSION & SEDIMENT CONTROL PLAN (ESC) | | WORK ORDER APPROVAL EGETVE | |
| OTHER (SPECIFY) | PRE-DESIGN | PRE-DESIGN MEETING OTHER (SPECIFY) | |
| IS THIS A RESUBMITTAL?: YesX No | | | |
| IS THIS A RESUBINITIAL! TES NO | | | |

COA STAFF: ELECTRONIC SUBMITTAL RECEIVED: ____