

# CITY OF ALBUQUERQUE



Richard J. Berry, Mayor

April 24, 2017

Rick Beltramo, P.E.  
Respec  
5971 Jefferson St. NE  
Albuquerque, NM, 87109

**RE: Cool Springz Trampoline Park (Tract C-1)**  
**Conceptual Grading Plan**  
**Stamp Date: no stamp**  
**Hydrology File: F17D095B**

Dear Mr. Beltramo:

Based upon the information provided in your submittal received 4/13/2017, the Conceptual Grading Plan **is not** approved for Building Permit, Site Plan for Subdivision, and Site Plan for Building Permit. The following comments need to be addressed for approval of the above referenced project:

1. On your informational sheet, please review your type of submittal and the type of approval sought. Under the type of submittal, the Conceptual Grading Plan is checked however; it appears that what is provided is a Grading Plan. Also with the history this tract and the calculations need, please provide a drainage report. Under the Type of approval sought, site plan for subdivision approval was checked however, this application is not subdividing Tract C-1. Also a grading permit approval will also be need since this project involves more than 500 cubic feet of material.
2. There is also not stamp and signature on the Grading Plan. Please provide them.
3. More than 1 acre of disturbance is proposed, therefore an Erosion and Sediment Control Plan is required and is to be submitted to the storm water quality engineer (Curtis Cherne, PE, [ccherne@cabq.gov](mailto:ccherne@cabq.gov)). An approval for this must be given prior to Hydrology's approval.
4. Please provide the benchmark information for the survey information and contour lines.





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5. The existing contours on Tract B-1 appear to be from 2013, prior to the construction of Del Norte Dialysis Center. New topo information along the existing retaining wall between Tract B-1 & Tract C-1 needs to be obtained so proposed grading will tie into the existing information.
6. An actual survey of the as-built pond needs to be completed as well with the two outlets shown with rim elevations for both and the elevation of the concrete weir around the south outlet. I was at the site on Friday, April 21, 2017 and noticed two spots that I am concern with. One is the south pond outlet. This appears to be the low spot in the pond and the top of the inlet appears to lower than the designed water quality elevation of 5194. The other location is at the Golden Coral's existing curb cuts at the northeast portion of the pond. See photos below. There does not appear to be a good drainage path for the runoff to get into the pond. This will need to be address while the pond is being enlarged in this submittal.



7. As per the Plat of Tracts B-1 & C-1 Sandia Addition dated February 2015, there is a 15 feet drainage easement on the south side of Tract C-1 adjacent to the 7 feet public utility easement. According to the Plat, this easement was for Tract B-1; however this tract was designed to drain towards Tract A and the runoff to drain through the existing parking lot to the existing pond. Also the Plat states that if the easement can be vacated at the time of Tract C-1 development. If this is to be done then the request for Site Plan for Building Permit approval is correct so that the Development Review Board (DRB) can take action on the approval. If the easement is to stay, than please provide the 15 feet drainage easement.
8. Under the hydrology Calculations, the existing retention volume is listed as 0.085 ac-ft. According to "Drainage Report for Tracts A, B-1, & C-1 Sandia Addition, the first flush volume is 0.085 ac-ft and the storage volume is 0.352 ac-ft. Please update information.

PO Box 1293

Albuquerque

New Mexico 87103

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9. Under the Methodology, it states that the hydrology calculations were performed using AHYMO and the 100-year, 24 hr storm event. However, there are no corresponding calculations included in this submittal. Please provide a more detailed drainage report with hydrograph showing the required volume for the proposed Tract C-1 development. Also please ensure that the WSEL for the 100-year storm does not go above the previously designed elevation of 5195.79. Plus this detail report is needed since there is considerable history on this site with drainage problems from storm events in 2013.
10. Under the Proposed Conditions – Subbasin P2, please state how much of Tract C-1 is included in the subbasin.
11. Under the Proposed Conditions – Pond, please indicate that this is a private pond, to be maintained by Tracts A, B-1, and C-1.
12. Please provide a typical cross section of the proposed rip rap rundowns.
13. Please provide a typical cross section of the pond facing north to show the western property line, the existing pond, and the proposed pond design. Of course the width will vary. A depiction of the widest section would be best.

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If you have any questions, please contact me at 924-3995 or [rbrissette@cabq.gov](mailto:rbrissette@cabq.gov).

Sincerely,

*Renee C. Brissette*

Reneé C. Brissette, P.E.  
Senior Engineer, Hydrology  
Planning Department



# City of Albuquerque

Planning Department

Development & Building Services Division

## DRAINAGE AND TRANSPORTATION INFORMATION SHEET (REV 09/2015)

**Project Title:** \_\_\_\_\_ **Building Permit #:** \_\_\_\_\_ **City Drainage #:** \_\_\_\_\_  
**DRB#:** \_\_\_\_\_ **EPC#:** \_\_\_\_\_ **Work Order#:** \_\_\_\_\_  
**Legal Description:** \_\_\_\_\_  
**City Address:** \_\_\_\_\_

**Engineering Firm:** \_\_\_\_\_ **Contact:** \_\_\_\_\_  
**Address:** \_\_\_\_\_  
**Phone#:** \_\_\_\_\_ **Fax#:** \_\_\_\_\_ **E-mail:** \_\_\_\_\_

**Owner:** \_\_\_\_\_ **Contact:** \_\_\_\_\_  
**Address:** \_\_\_\_\_  
**Phone#:** \_\_\_\_\_ **Fax#:** \_\_\_\_\_ **E-mail:** \_\_\_\_\_

**Architect:** \_\_\_\_\_ **Contact:** \_\_\_\_\_  
**Address:** \_\_\_\_\_  
**Phone#:** \_\_\_\_\_ **Fax#:** \_\_\_\_\_ **E-mail:** \_\_\_\_\_

**Other Contact:** \_\_\_\_\_ **Contact:** \_\_\_\_\_  
**Address:** \_\_\_\_\_  
**Phone#:** \_\_\_\_\_ **Fax#:** \_\_\_\_\_ **E-mail:** \_\_\_\_\_

Check all that Apply:

**DEPARTMENT:**

\_\_\_\_ HYDROLOGY/ DRAINAGE  
\_\_\_\_ TRAFFIC/ TRANSPORTATION  
\_\_\_\_ MS4/ EROSION & SEDIMENT CONTROL

**TYPE OF SUBMITTAL:**

\_\_\_\_ ENGINEER/ ARCHITECT CERTIFICATION  
  
\_\_\_\_ CONCEPTUAL G & D PLAN  
\_\_\_\_ GRADING PLAN  
\_\_\_\_ DRAINAGE MASTER PLAN  
\_\_\_\_ DRAINAGE REPORT  
\_\_\_\_ CLOMR/LOMR  
  
\_\_\_\_ TRAFFIC CIRCULATION LAYOUT (TCL)  
\_\_\_\_ TRAFFIC IMPACT STUDY (TIS)  
\_\_\_\_ EROSION & SEDIMENT CONTROL PLAN (ESC)  
  
\_\_\_\_ OTHER (SPECIFY) \_\_\_\_\_

**CHECK TYPE OF APPROVAL/ACCEPTANCE SOUGHT:**

\_\_\_\_ BUILDING PERMIT APPROVAL  
\_\_\_\_ CERTIFICATE OF OCCUPANCY  
  
\_\_\_\_ PRELIMINARY PLAT APPROVAL  
\_\_\_\_ 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  
\_\_\_\_ OTHER (SPECIFY) \_\_\_\_\_

IS THIS A RESUBMITTAL?: \_\_\_\_ Yes \_\_\_\_ No

DATE SUBMITTED: \_\_\_\_\_ By: \_\_\_\_\_

COA STAFF: \_\_\_\_\_ ELECTRONIC SUBMITTAL RECEIVED: \_\_\_\_



The following calculations are based on Albuquerque's Development Process Manual Section 22.2

Q values based on equation A-11  
Q values rounded up to nearest whole number  
Water quality volume provided from "Drainage Report for Tracts A, B-1, and C-1 Sandia Addition"

TRACT E  
NAVAJO TERMINAL, INC  
Filed May 15, 1975, Volume DE, Folio 150

| <b><u>Triangular Channel</u></b> |               |
|----------------------------------|---------------|
| <b>Input</b>                     |               |
| Depth                            | 0.45 ft       |
| Slope                            | 0.037 ft/ft   |
| Manning's n                      | 0.017         |
| Base Width                       | 0 ft          |
| Right Side Slope                 | 50:1          |
| Left Side Slope                  | 50:1          |
| <b>Output</b>                    |               |
| Flow                             | 63.0 cfs      |
| Flow Area                        | 10.1 sf       |
| Velocity                         | 6.22 fps      |
| Velocity Head                    | 0.601 ft      |
| Top Width                        | 45.0 ft       |
| Froude Number                    | 2.31          |
| Critical Depth                   | 0.629 ft      |
| Critical Slope                   | 0.00619 ft/ft |

| <b>Irregular Section</b> |      |       |     |      |
|--------------------------|------|-------|-----|------|
| <b>Input</b>             |      |       |     |      |
| Sta                      | Elev | n     | Sta | Elev |
| 0                        | 0.5  | 0.017 | 26  | 0    |

  

| <b>Output</b>   |          |
|-----------------|----------|
| Flow            | 38.2 cfs |
| Flow Area       | 6.50 sf  |
| Velocity        | 5.87 fps |
| Velocity Head   | 0.536 ft |
| Top Width       | 26.0 ft  |
| Froude Number   | 2.07     |
| Critical WSElev | 0.656 ft |
| Critical Slope  | ft/ft    |

| <u>Triangular Channel</u> |              |
|---------------------------|--------------|
| <b>Input</b>              |              |
| Depth                     | 0.9 ft       |
| Slope                     | 0.0161 ft/ft |
| Manning's n               | 0.025        |
| Base Width                | 0 ft         |
| Right Side Slope          | 3:1          |
| Left Side Slope           | 3:1          |
| <b>Output</b>             |              |
| Flow                      | 10.4 cfs     |
| Flow Area                 | 2.43 sf      |
| Velocity                  | 4.28 fps     |
| Velocity Head             | 0.284 ft     |
| Top Width                 | 5.40 ft      |
| Froude Number             | 1.12         |
| Critical Depth            | 0.943 ft     |
| Critical Slope            | 0.0126 ft/ft |

|                                        |       |     |
|----------------------------------------|-------|-----|
| Head Water Depth (h):                  | 0.5   | ft  |
| Discharge Coeff. ( $C_w$ ):            | 3.367 |     |
| Length (L):                            | 1     | ft  |
| Flow (Q) = $C_w \cdot L \cdot h^{1.5}$ |       |     |
| Flow (Q) =                             | 1.2   | cfs |

|                                        |       |     |
|----------------------------------------|-------|-----|
| Head Water Depth (h):                  | 0.5   | ft  |
| Discharge Coeff. ( $C_w$ ):            | 3.367 |     |
| Length (L):                            | 4     | ft  |
| Flow (Q) = $C_w \cdot L \cdot h^{1.5}$ |       |     |
| Flow (Q) =                             | 4.8   | cfs |

|                                        |       |     |
|----------------------------------------|-------|-----|
| Head Water Depth (h):                  | 0.5   | ft  |
| Discharge Coeff. ( $C_w$ ):            | 3.367 |     |
| Length (L):                            | 3     | ft  |
| Flow (Q) = $C_w \cdot L \cdot h^{1.5}$ |       |     |
| Flow (Q) =                             | 3.6   | cfs |

|                                        |             |            |
|----------------------------------------|-------------|------------|
| Head Water Depth (h):                  | 0.5         | ft         |
| Discharge Coeff. ( $C_w$ ):            | 3.367       |            |
| Length (L):                            | 10          | ft         |
| Flow (Q) = $C_w \cdot L \cdot h^{1.5}$ |             |            |
| Flow (Q) =                             | <b>11.9</b> | <b>cfs</b> |

|  |                                   |
|--|-----------------------------------|
|  | PROPERTY LINE                     |
|  | EXISTING MAJOR CONTOUR            |
|  | EXISTING MINOR CONTOUR            |
|  | PROPOSED MAJOR CONTOUR            |
|  | PROPOSED MINOR CONTOUR            |
|  | PROPOSED 6" C&G                   |
|  | SUBBASIN BOUNDARY                 |
|  | FLOW ARROW INTO POND              |
|  | PROPOSED FLOW LINE ELEVATION      |
|  | PROPOSED TOP OF CURB ELEVATION    |
|  | PROPOSED TOP OF ASPHALT ELEVATION |
|  | EXISTING GRADE                    |
|  | PROPOSED BUILDING ELEVATION       |
|  | FLOW ARROW AND GRADE              |



**LEGAL DESCRIPTION:**  
TRACT C-1  
SANDIA ADDITION  
BUQUERQUE, BERNALILLO  
COUNTY, NEW MEXICO

**GRAPHIC SCALE**

( IN FEET )

1 inch = 30 ft.

C-1

