CITY OF ALBUQUERQUE

Planning Department Suzanne Lubar, Director



Richard J. Berry, Mayor

September 27, 2017

Hugh Floyd, P.E. RESPEC 5971 Jefferson NE, Suite 101 Albuquerque NM 87109

RE: Kiddie Academy - 7010 Alameda Blvd.NE

Request permanent C.O. – Accepted (C19D061)

Engineer's Stamp Dated 8/31/2017

Dear Mr. Floyd

Based on the Certification received 9/22/2017 and the Drainage Covenant recorded, the site is acceptable for release of Certificate of Occupancy by Hydrology.

If you have any questions, please contact me at 924-3986 or jhughes@cabq.gov.

PO Box 1293

Sincerely,

Albuquerque

James D. Hughes P.E.

Principal Engineer, Planning Dept.

Development Review Services

NM 87103

C: email Serna, Yvette M.; Fox, Debi; Tena, Victoria C.; Sandoval, Darlene M.

www.cabq.gov



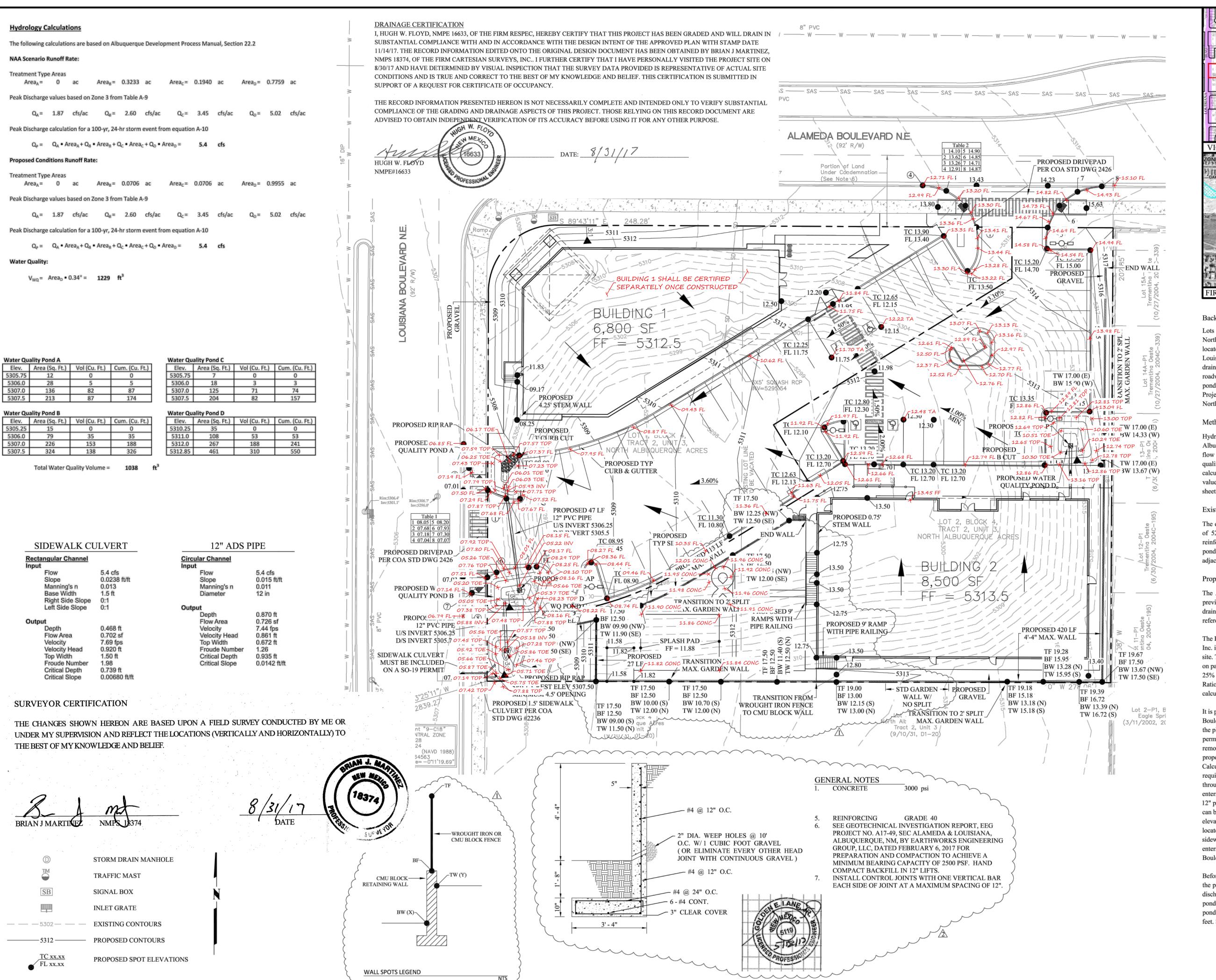
City of Albuquerque

Planning Department

Development & Building Services Division

DRAINAGE AND TRANSPORTATION INFORMATION SHEET (REV 09/2015)

Project Title: Alameda & Louisiana Kiddie Academy	Building Permit #: City Drainage #: C19-D061
DRB#: 1010997 EPC#: 101097	Work Order#:
Legal Description: Lots 1A & 1B, Block 4, Tract 2, Unit 3 of North Albuquerque	e Acres in Bernalillo County, New Mexico
City Address: 7010 Alameda Blvd NE; Albuquerque, NM 87113	
Engineering Firm: RESPEC	Contact: Hugh Floyd
Address: 5971 Jefferson NE, Suite 101; Albuquerque, NM 87109	
Phone#: (505) 366-4187 Fax#:	E-mail: hugh.floyd@respec.com
Owner: Phil Lindborg	Contact: Phil Lindborg
Phone#: (505) 450-4388 Fax#:	E-mail: phillindborg@comcast.net
Architect: Modulus Architects	Contact: Angela Williamson
Address: 100 Sun Avenue NE, Ste. 305; Albuquerque, NM 87109	
Phone#: (505) 338-1499 Fax#:	E-mail: awilliamson@modulusarchitects.com
Other Contact:	Contact:
Address	
PI //	E-mail:
X HYDROLOGY/ DRAINAGE TRAFFIC/ TRANSPORTATION MS4/ EROSION & SEDIMENT CONTROL TYPE OF SUBMITTAL:	BUILDING PERMIT APPROVAL X CERTIFICATE OF OCCUPANCY FINAL
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Lots 1 & 2 account for approximately 1.3 acres in Block 4, Tract 2, Unit 3 of North Albuquerque Acres in Bernalillo County, New Mexico. These lots are located on the southeast corner of the intersection of Alameda Boulevard and Louisiana Boulevard. The site has been previously developed to serve as a drainage pond to relieve Alameda Boulevard of excess runoff. Due to recent roadway and storm drain improvements along Alameda Boulevard, the existing pond can be eliminated per the Drainage report for the Alameda Widening Project (TEC, January 2012). Storm water from the site is restricted by the North Albuquerque Acres Drainage Plan to 5.4 cfs.

Hydrology calculations for the properties are performed in accordance with the Albuquerque DPM Section 22.2 using the Rational Method to calculate peak flow rates to insure all flow paths are sufficient to carry flows to the water quality ponding located on-site. The water quality ponding volume required was calculated by multiplying the impervious area onsite by the first flush runoff value of 0.34". The hydrology and hydraulic calculations can be found on this

Existing Conditions

The existing site is a detention pond with 3:1 (H:V) slopes, a bottom elevation of 5297, and maximum spill crest elevation of 5307. There is a 3x5' squash reinforced concrete pipe with an invert of 5295.54 located at the bottom of the pond. Lots 1 & 2 do not appear to be receiving additional surface runoff from adjacent lands.

Proposed Conditions

The Alameda storm drain system has been constructed to convey the runoff previously held by the existing detention pond west to the San Pedro storm drain. Therefore, the existing detention pond is no longer needed per the report referenced above.

The Hydrology Report for North Albuquerque Acres by Resource Technology, Inc. in November 1998 is used to determine the allowable discharge from the site. The subject property is located in subbasin 117.4 per this report. Table B-3 on page Appendix - 19 assigns future conditions land treatment types as 0% A, 25% B, 15% C, and 60% D for this subbasin. The allowable discharge using the Rational Method and the assigned treatment types above is 5.4 cfs. The calculation is shown on the left side of this sheet.

It is proposed that the site, in general, drains from east to west toward Louisiana Boulevard. The small amount of runoff from the area south of Building 2 and the play area west of Building 2 are contained within the play area, which has a permeable surface and is recessed approximately 1'. Accordingly, this area is removed from the subbasin area for the 100 year storm water runoff. Under proposed conditions, the remainder of the site generates 5.4 cfs. See Hydrology Calculations on the left side of this sheet. Therefore, no detention ponding is required to reduce the flow rate. Runoff from the entire site enters into Pond A through a 2' curb cut located at the southwest corner of Building 1. Water then enters a 12" pipe transferring runoff from Pond A to Pond B. There is another 12" pipe that connects Pond B to Pond C. Manning's calculations for both pipes can be found on the left side of this sheet. Once a maximum water surface elevation of 5307.5 is reached, runoff begins to spill into a sidewalk culvert located at the southwest corner of the site. The Manning's calculation for the sidewalk culvert can be found on the left side of this sheet. From there water enters the storm drain system through a grate located in the median in Louisiana Boulevard.

Before Building 2 drains across the site, runoff is routed through Pond D. Once the pond has filled to a maximum water surface elevation of 5312.85, the pond discharges through a 2' curb cut into the parking lot. Pond rating curves for all ponds can be seen on the left side of this sheet. The total provided water quality pond volume for the site is 1239 cubic feet. The required volume is 1229 cubic feet. See the calculation on the left side of this sheet.

ISSUED FOR

CONSTRUCTION

C-1

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EVELOPMEN ALAMEI COMMERCI

SHEET NUMBER: