

# CITY OF ALBUQUERQUE



November 28, 2017

Scott McGee, PE  
Scott M. McGee PE, LLC  
9700 Tanoan Dr. NE  
Albuquerque, NM 87111

**Re: Marie Hughes E.S.  
5701 Mojave St. NW  
Requested for Permanent C. O. - Accepted  
Engineers Stamp Date 9/3/16 (D11D007)  
Certification dated: 9-28-17 <sup>KS</sup>**

Dear Mr. McGee,

Based on the Certification received on 11/22/2017, the site is acceptable for release of Certificate of Occupancy by Hydrology.

PO Box 1293

If you have any questions, you can contact me at 924-3986 or Totten Elliott at 924-3982.

Albuquerque

Sincerely,

NM 87103

www.cabq.gov

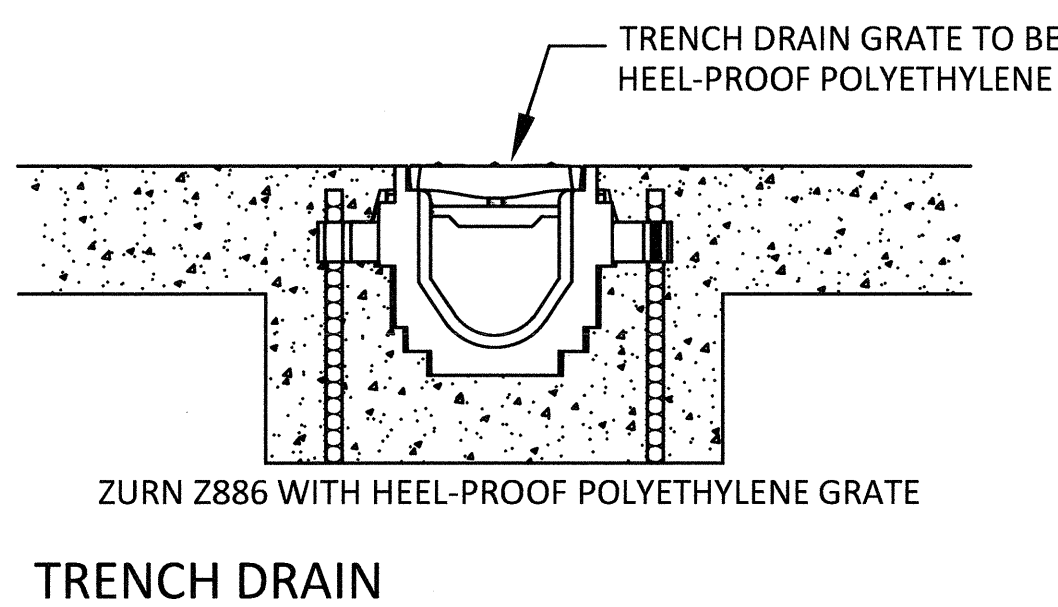
James D. Hughes, P.E.  
Principal Engineer, Planning Dept.  
Development and Review Services

TE/JH

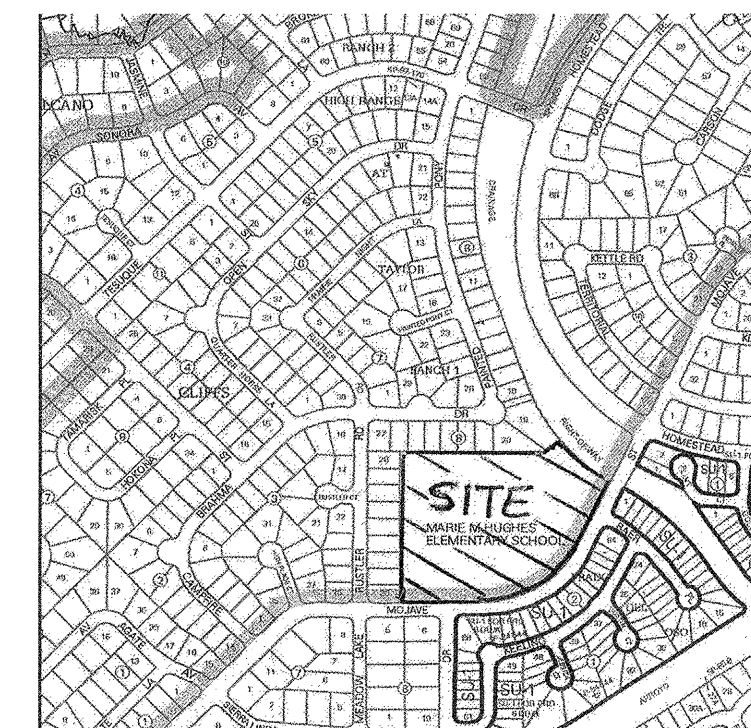
C: CO Clerk, Serna, Yvette M.; Fox, Debi; Tena, Victoria C.; Sandoval, Darlene M.



SCOTT M MCGEE, NMPE 10519



<p>A. INSTALL NEW TRENCH DRAIN (ZURN Z886 6" WIDTH OR APPROVED EQUAL) FROM BUILDING ROOF DRAIN TO TREE WELL AND FROM TREE WELL TO CURB AT MINIMUM 2% SLOPE.</p>	<p>E. INSTALL NEW 18" STORM DRAIN LINE (RCP) UNDER BUILDING AS SHOWN.</p>
<p>B. INSTALL NEW 24" X 8" DEEP TRENCH DRAIN (NEENAH R-4999HX OR APPROVED EQUAL) WITH BOLTED COVER.</p>	<p>F. INSTALL NEW 24" X 6" DEEP TRENCH DRAIN (NEENAH R-4999HX OR APPROVED EQUAL) WITH BOLTED COVER.</p>
<p>C. INSTALL NEW 18" x18" AREA DRAIN WITH NYLOPLAST 18" DRAIN BASIN.</p>	<p>G. NOT USED.</p>
<p>D. INSTALL NEW 12" STORM DRAIN LINE (HDPE OR PVC SDR35) BETWEEN DRAIN BASINS AS SHOWN.</p>	<p>H. INSTALL NEW 12" x12" AREA DRAIN WITH NYLOPLAST 12" DRAIN BASIN.</p>



NOT TO SCALE

Legend:

- EXISTING CONSTRUCTION
- NEW CONTOUR
- NEW SD LINE
- PROPERTY LINE
- FF=5135.5 FINISH FLOOR ELEV
- ◆ 36.5 NEW SPOT ELEVATION
- TC 33.8 TOP OF CURB
- FL 33.3 FLOW LINE
- RD ROOF DRAIN
- DRAINAGE BASIN SUB-BOUNDARY
- Ⓒ DRAINAGE BASIN
- × 35.42 AS-BUILT ELEVATION

LEGAL: Tract 21, The High Range at Taylor Ranch 1

AREA: 9.93 acres

TBM: A chiseled 'X' on the back of the south curb of Mojave Street NW as shown on the plan.  
ELEV= 5133.67 (NAVD 1988)

SURVEYOR: High Mesa Consulting Group dated August, 2013

FLOOD HAZARD: From FEMA Panel 112 of 825 (09/26/2008), the site is shown to be within Zone 'X' which is outside the 0.2% annual chance floodplain.

**EXISTING CONDITIONS:** The site is an existing school facility which was previously developed as the Marie Hughes Elementary School. It includes a school building, play field, asphalt parking areas, and a number of portable buildings. The site slopes down from the northwest to the east at slopes varying from 1.5- 5%. The site is bordered by single-family homes on the west and north. Mojave State NW borders the site on the south and east sides. Offsite flow does not enter the site as abutting residential lots have backyard walls.

FIRST FLUSH:  $Q=(0.44-0.10)(237,902)/12= 6,740$  CF  
This volume will be stored in the various detention ponds located throughout the site which provide 6,762 CF storage volume.

OFFSITE FLOWS: Offsite flows do not enter this site.

**PROPOSED IMPROVEMENTS:** The new building is 75,900 SF (2-story) proposed to be located where the play field was previously at the east side of the site.

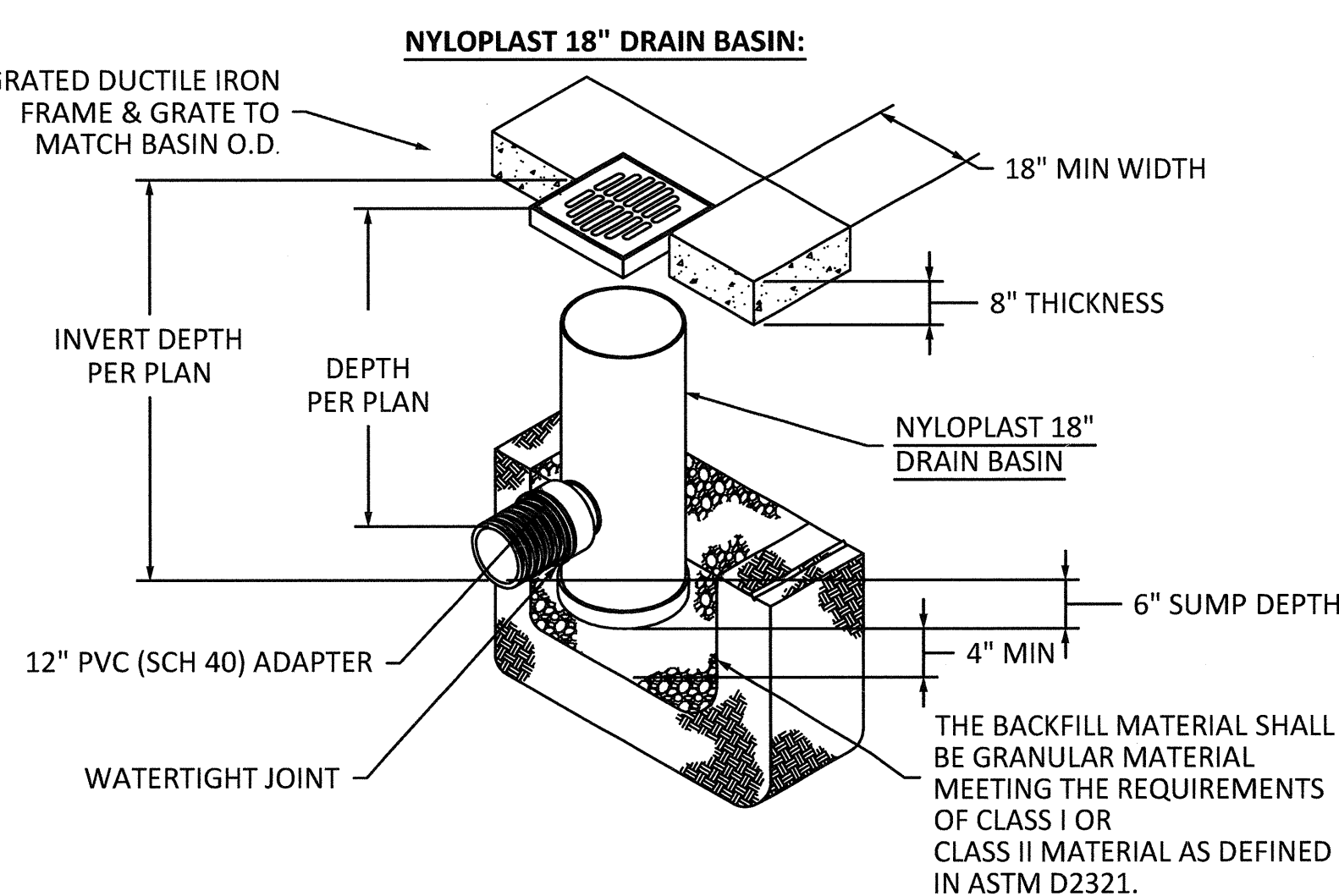
**DRAINAGE APPROACH:** The proposed drainage plan will follow historic flow paths and the approved Grading Plan. Site runoff is shown in the following table using multiple analysis points. A proposed pond located on the east side of the site will discharge through a 12" piped connection to an existing drop inlet on the west side of Mojave Street. The 12" drain is being installed by CPN 741382.

ANALYSIS POINT #	AREA (AC)	LAND USE %				Q (CFS)	NOTES
		B	C	D			
1	2.0	4	6	90	8.4	CULVERT CAPACITY = 8.8 CFS	
2	2.1	10	85	5	6.0	CAPACITY = 6.6 CFS	
3	1.7	0	25	75	6.8	INLET CAPACITY = 6.8 CFS	
4	1.0	0	30	70	4.0	DRAIN CAPACITY = 9.2 CFS	

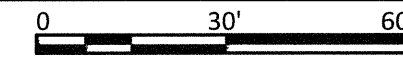
HYDROLOGY: For precipitation Zone 1 & 18% B, 44% C & 38% D land treatment  
Existing Q= (1.79)(2.03)+ (4.37)(2.87)+(3.77)(4.37)= 32.6 CFS

D The proposed building, impervious areas, and walks are 55% of the area with the balance of the site considered as land treatment type 'C'.  
Proposed Q= (1.79)(2.03)+( 4.05)(2.87)+(3.99)(4.37)= 32.7CFS

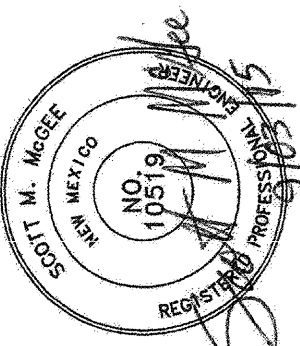
This minor runoff increase (0.1 CFS) will be retained onsite and the proposed discharge rate will be held to the historic rate. Onsite improvements will honor existing water bars at all 4 existing entry drives to the site.



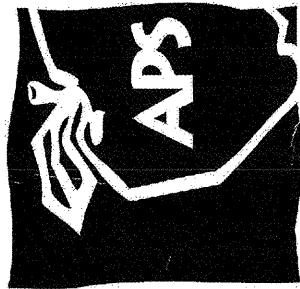
1" = 30 FT



G. DONALD DUDLEY AIA  
ARCHITECT



ALBUQUERQUE  
PUBLIC SCHOOLS  
*Expect Great Things*



MARIE HUGHES  
ELEMENTARY SCHOOL  
5701 Mojave St, NW  
Albuquerque, NM 87120

A	9.4.2015	APPENDIX #2
GDPA PROJECT NO: 13-00		
DATE: 08.10.201		
DRAWN BY:		
CHECKED BY: sm		
SET NO:		
SHEET TITLE:		

## GRADING PLAN

# C101