CITY OF ALBUQUERQUE



Richard J. Berry, Mayor

April 11, 2017

Martin Garcia, PE 1035 S. Bosque Loop Bosque Farms, NM, 87123

RE: 1428 Stagecoach Rd SE

Grading and Drainage Plan

Stamp Date: 1/16/17 Hydrology File: M23D019

Dear Mr. Garcia:

Based upon the information provided in your submittal received 4/7/2017, the Grading and Drainage Plan **is not** approved for Building Permit. The following comments need to be addressed for approval of the above referenced project:

Albuquerque

PO Box 1293

1. This site appears to be replatted. The lot size from the Appraisal District is listed as 0.4849 ac and the lot size that is quoted in the calculations is 0.60 ac. Please clarify which is correct.

New Mexico 87103

- 2. Please label the access easement. Is it a 20 ft easement?
- 3. On the drainage calculations, this site is in Precipitation Zone 3. Therefore all the drainage calculations needs to reflect Zone 3 and not Zone 1.

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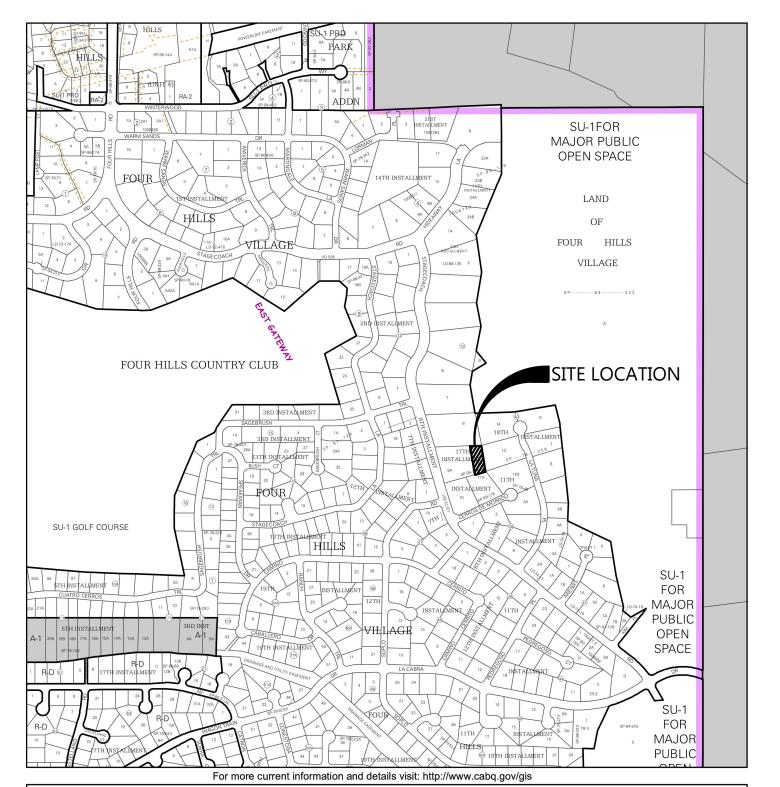
- 4. In the drain pipe cross section, please add 1 ft cover (min.) between the drive and the 18" CMP.
- 5. The water surface elevation for the pond does not match the pond volume calculations. Please correct.
- 6. Please provide a drainage swale along the west property line towards the pond. The proposed finish floor is higher than the adjacent property. I would like to lessen the impact of the increase runoff onto the adjacent property.
- 7. Please continue the swale along the driveway past the existing tree to the road. Again, I do not want this property's runoff to cause issues with the adjacent property.

CITY OF ALBUQUERQUE



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If you have any questions, please contact me at 924-3995 or rbrissette@cabq.gov. Sincerely, Renee C. Brissello Reneé C. Brissette, P.E. Senior Engineer, Hydrology Planning Department PO Box 1293 Albuquerque New Mexico 87103 www.cabq.gov



Zone Atlas Page: M-23-Z

Selected Symbols

City Historic Zones

H-1 Buffer Zone

Design Overlay Zones ____ 2 Mile Airport Zone

Drainage Narrative

Map amended through: 1/28/2016

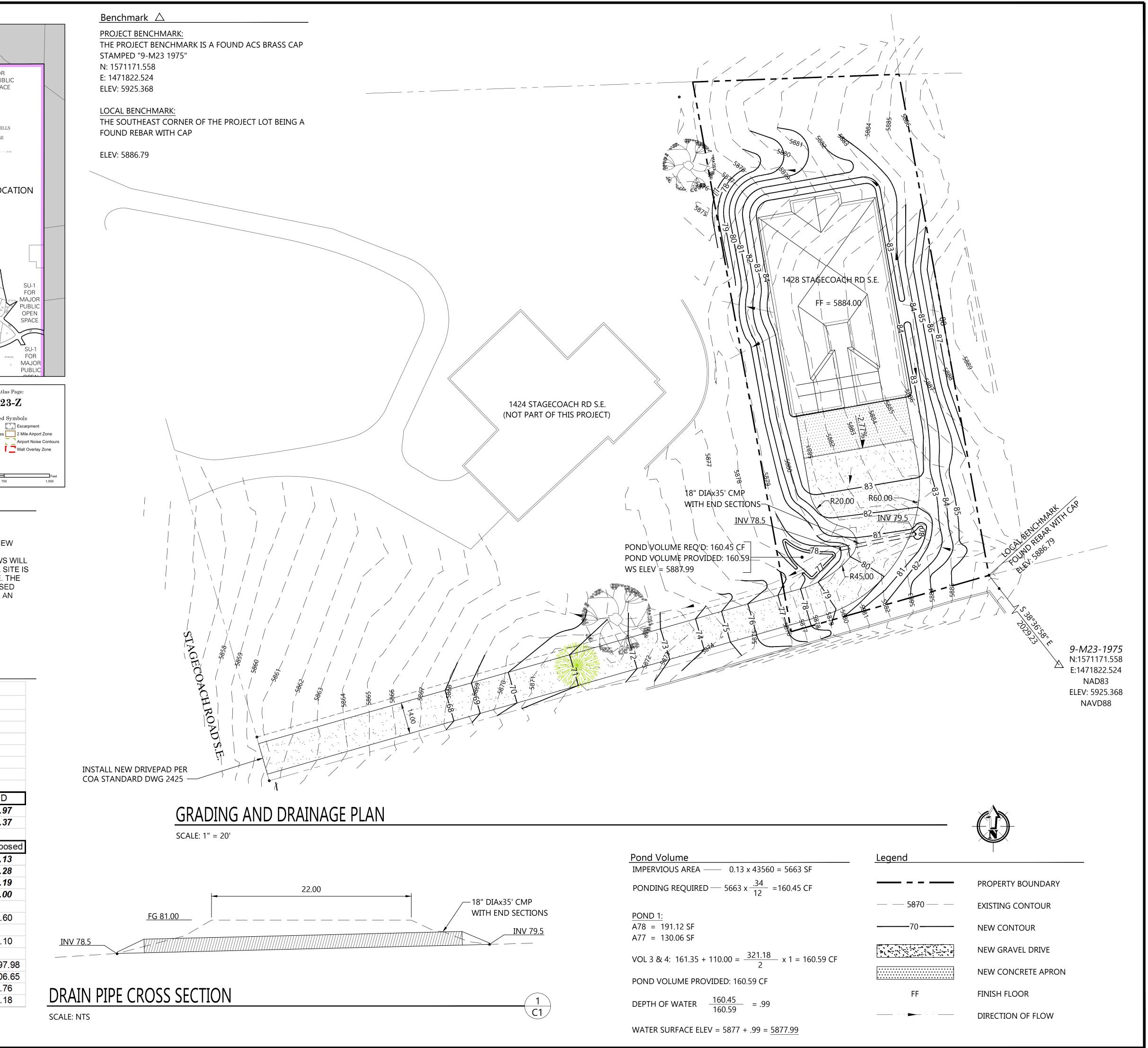
THE PURPOSE OF THIS GRADING AND DRAINAGE PLAN LOCATED AT 1428 STAGECOACH ROAD, S.E., ALBUQUERQUE, NM IS TO ACCOMMODATE A NEW RESIDENCE. THE SITE CURRENTLY IS AN UNIMPROVED LOT SURROUNDED BY IMPROVED RESIDENTIAL LOTS. THE PROPOSED IMPROVEMENT INCLUDES A NEW

THE SITE ACCEPTS MINIMAL OFF-SITE RUNOFF FROM THE EAST. THOSE FLOWS WILL 0.77 CFS AND WILL INCREASE TO 1.71 CFS AFTER DEVELOPMENT OF THE SITE. THE RUN OFF WILL BE DIRECTED TO A CLEAR WATER POND WEST OF THE PROPOSED DRIVEWAY AND WILL DRAIN TO THE WEST AS IT HAS HISTORICALLY DONE VIA AN EXISTING DRAINAGE SWALE

THE SITE IS NOT WITHIN THE 100 YR FLOOD PLAIN PER FEMA FIRM PANEL NO. 35001C0386G, DATED SEPTEMBER 26, 2008, DESIGNATED AS ZONE "X".

Drainage Calculations		_		
Roensch Residence				
1428 Stagecoach Road S.E.				
Hydrology Calculations				
DPM - Section 22.2				
Volume 2, January 1993				
Precipitation Zone	1			
100 Year Storm Depth, P (360)	2.2			

Treatment Area	Α	В	С	D
Excess Precipitation Factors	0.44	0.67	0.99	1.97
Peak Discharge Factors	1.29	2.03	2.87	4.37
Land Treatment Area	Acres	Existing	Allowable	Proposed
Type "D" (Roof)		0	0.10	0.13
Type "C" (Unpaved Roadway)		0	0.12	0.28
Type "B" (Irrigated Lawns)		0	0.12	0.19
Type "A" (Undeveloped)		0.6	0.26	0.00
Total (Acres)		0.6	0.60	0.60
Excess Precipitation(in)		0.44	0.88	1.10
Volume (100), cf		958.32	1916.86	2397.98
Volume (10),cf		642.07	1284.29	1606.65
Q (100), cfs		0.77	1.39	1.76
Q (10), cfs		0.52	0.93	1.18



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