# CITY OF ALBUQUERQUE

Planning Department
David Campbell, Director



May 10, 2019

Shawn Biazar SBS Construction and Engineering, LLC 10209 Snowflake Ct. NW Albuquerque, NM, 87114

**RE:** DKG Roofing Inc.

7000 Huseman Place SW Grading and Drainage Plan Engineer's Stamp Date: 05/09/19 Hydrology File: M10D016J

Dear Mr. Biazar:

PO Box 1293 Based upon the information provided in your submittal received 05/03/2019, the revised Grading

and Drainage Plan is approved for Building Permit.

Albuquerque Please attach a copy of this approved plan in the construction sets for Building Permit processing

along with a copy of this letter. Prior to approval in support of Permanent Release of Occupancy

by Hydrology, Engineer Certification per the DPM checklist will be required.

NM 87103

Please provide Drainage Covenant per Chapter 17 of the DPM prior to Permanent Release of

Occupancy for the first flush pond and retention pond. Please submit these to the 4th floor of

Plaza de Sol. A \$25 fee for each will be required.

If you have any questions, please contact me at 924-3995 or rbrissette@cabq.gov.

Sincerely,

www.cabq.gov

Renée C. Brissette, P.E. CFM Senior Engineer, Hydrology

Renée C. Brissette

Planning Department

### Location LOT 12, COOR-ARENAL INDUSTRIAL PARK SUBDIVISION, is located at 7000 Husemen Place, SW containing 0.9856 acre. See attached portion of Vicinity Map M-10-Z for exact

The purpose of this drainage report is to present a grading and drainage solution for new buildings and improvement for LOT 12, COOR-ARENAL INDUSTRIAL PARK SUBDIVISION.

### **Existing Drainage Conditions**

This lot is very flat and drains north into Husemen Place, SW and no other offiste flows enters this site. There are existing gravel on site and some grading has been done.

#### **Proposed Conditions and On-Site Drainage Management Plan** We are porposing to retain all the developed flow. The total volume requirement under this condition is 10,178.64 CF. We are proposing a total of five ponds (A-E) with total volume provided of 11,832.68 CF wich includes the first flush volume requirement of 912.32 CF.

#### **VOLUME CALCULATIONS FOR 10 DAY STORM** (UNDER PROPOSED CONDITIONS)

BASIN	AREA (SF	) AREA (AC)	AREA (MI²)
ON-SITE	42,932.74	0.9856	0.001540

E = EA(AA) + EB(AB) + EC(AC) + ED(AD)AA + AB + AC + AD

V-360 = E(AA + AB + AC + AD)

EA = 0.44EB = 0.67

EC = 0.99ED = 1.97

AA = 0.00%AB = 25.00%AC = 0.00%AD = 75.00%

P-60 = 2.01P-360 = 2.35P-1440 = 2.75P-10 Day = 3.95

V-360 =0.1351 AC-FT 0.7392 AC V-10 DAY = 0.2337 AC-FTV-10 DAY= 10,178.64 CF

## V (REQUIRED) = 10,178.64 CF

## PONDING VOLUME REQUIREMENTS (90TH PERCENTILE/FIRST FLUSH)

VOLUME REQUIRED = 0.34 INCHES x IMPERVIOUS AREA =  $(0.34/12 \times 32,199.55) = 912.32 \text{ CF}$ 

# PONDING VOLUME CALCULATION

TOTAL POND AREA PROVIDED = PONDING CALCULATIONS:

POND A:

AREA @ ELEV. 84.00 = 3196.00 SF AREA @ ELEV. 83.50 = 7.07 SF POND VOLUME=(3196.00+7.07)/2\*0.50=800.77 CF

AREA @ ELEV. 84.00 = 5310.09 SF

AREA @ ELEV. 83.50 = 7.07 SF POND VOLUME=(5310.09+7.07)/2\*0.0.50=1329.29 CF

AREA @ ELEV. 84.00 = 3243.32 SF AREA @ ELEV. 83.50 = 510.70 SF AREA @ ELEV. 83.00 = 297.72 SF

AREA @ ELEV. 81.00 = 120.24 SF POND VOLUME=(938.51+202.11+417.96)= 1558.57 CF

POND D: AREA @ ELEV. 84.00 = 3417.78 SF

AREA @ ELEV. 83.50 = 7.07 SF POND VOLUME=(3417.78+7.07)/2\*0.50= 856.21 CF

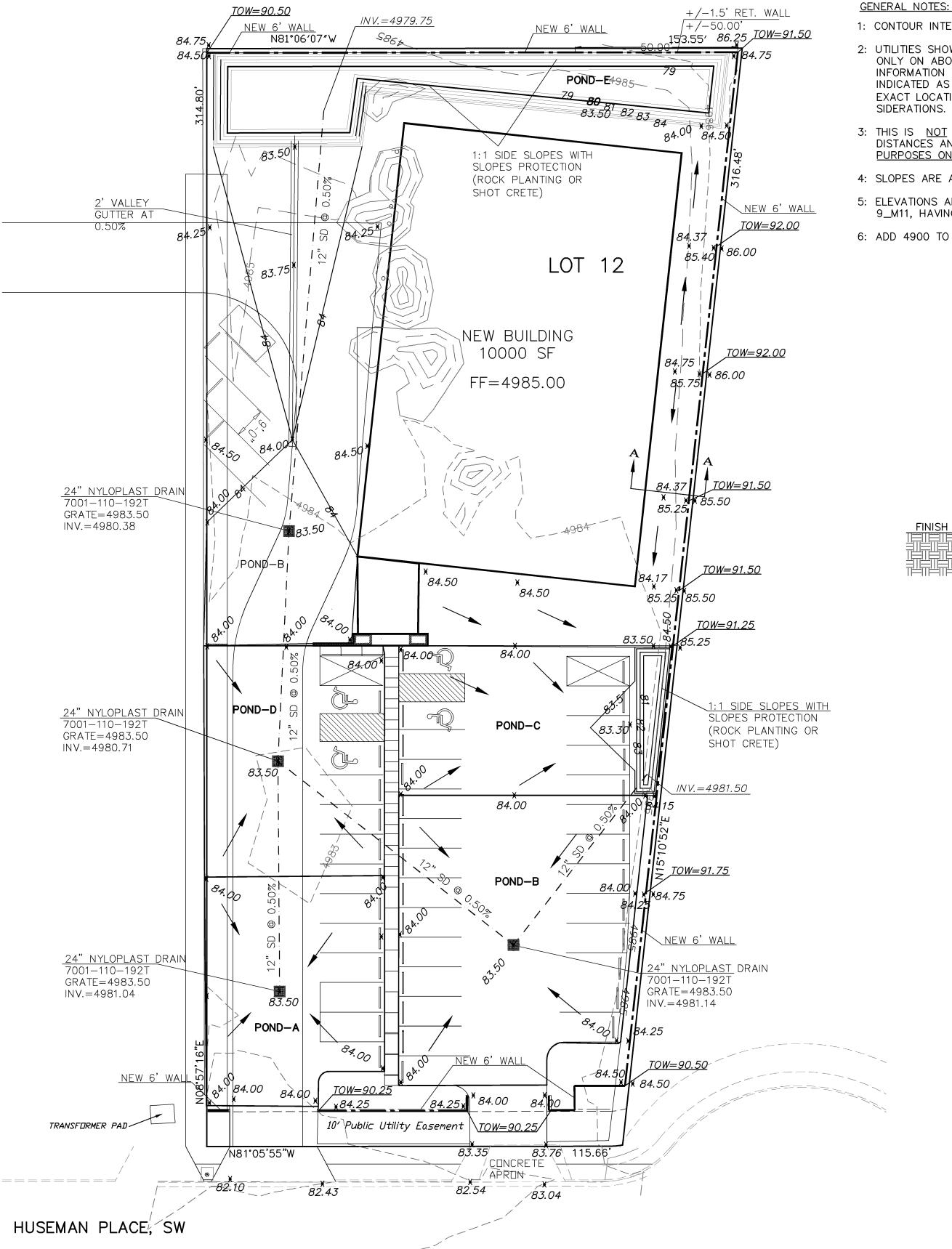
AREA @ ELEV. 84.00 = 4344.91 SF AREA @ ELEV. 83.50 = 1945.92 SF

AREA @ ELEV. 83.00 = 1784.68 SF AREA @ ELEV. 79.00 = 1229.25 SF

POND VOLUME=(1572.71+932.65+4782.48)= 7287.84 CF

TOTAL PONDING VOLUME PROVIDED =

800.77 + 1329.29 + 1558.57 + 856.21 + 7287.84 = 11,832.68 CF



- 1: CONTOUR INTERVAL IS HALF (1.00) FOOT.
- 2: UTILITIES SHOWN HEREON ARE IN THEIR APPROXIMATE LOCATION BASED ONLY ON ABOVE GROUND EVIDENCE FOUND IN THE FIELD AND AS-BUILT INFORMATION PROVIDED BY THE CLIENT. UTILITIES SHOWN HEREON, WHETHER INDICATED AS ABANDONED OR NOT, SHALL BE VERIFIED BY OTHERS FOR EXACT LOCATION AND/ OR DEPTH PRIOR TO EXCAVATION OR DESIGN CON-
- 3: THIS IS NOT A BOUNDARY SURVEY, BEARINGS ARE ASSUMED, DISTANCES AND FOUND PROPERTY CORNERS ARE FOR INFORMATIONAL
- 4: SLOPES ARE AT 3:1 MAXIMUM UNLESS NOTED.
- 5: ELEVATIONS ARE BASED ON CITY OF ALBUQUERQUE CONTROL STATION 9\_M11, HAVING AN ELEVATION OF 4957.54 FEET ABOVE SEA LEVEL.
- 6: ADD 4900 TO ALL PROPOSED SPOT ELEVATIONS.

TW = 91.50

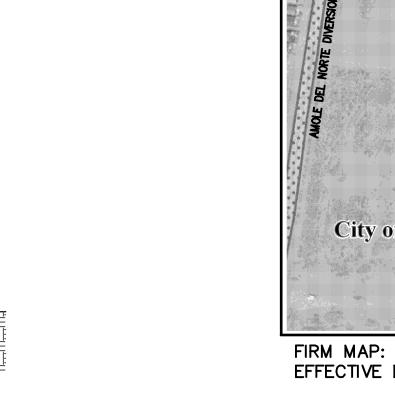
PROPOSED\_

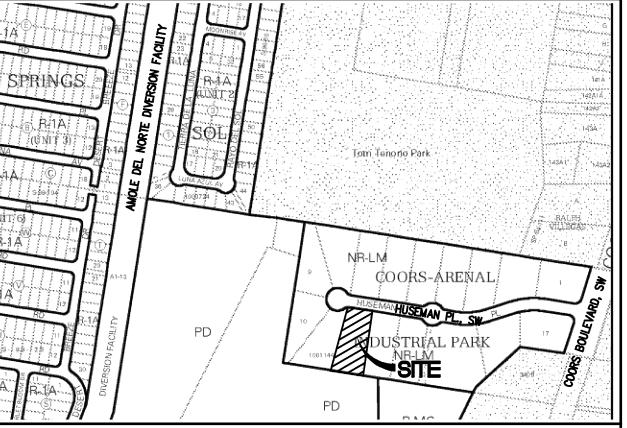
GARDEN WALL

84.37

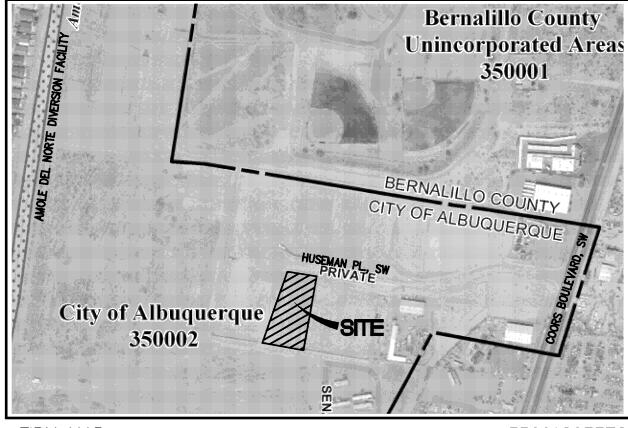
3 (MAX.

**SECTION A-A** 





VICINITY MAP: M-10-Z



EFFECTIVE DATE:

35001C03370 09-26-2008

## LEGAL DESCRIPTION:

LOT 12, COOR-ARENAL INDUSTRIAL PARK SUBDIVISION CONTAINING 0.9856 ACRE ADDRESS: 7000 HUSEMAN PLACE, SW

# LEGEND

	BOUNDARY LINE	
	EASEMENT LINE	
EXISTING SAS	EXISTING SEWER	
EXISTING SD	EXISTING STORM DRAIN	
	EXISTING CURB & GUTTER	
	PROPOSED WALL	
	EXISTING SIDEWALK	
(0)	EXISTING FIRE HYDRANT	
O	EXISTING WATER SERVICE	
	EXISTING DROP INLET	



SBS CONSTRUCTION AND ENGINEERING, LLC

> 10209 SNOWFLAKE CT., NW ALBUQUERQUE, NEW MEXICO 87114 (505)899-5570

GRAPHIC SCALE

SCALE: 1"=20'

# DKG ROOFING, INC 7000 HUSEMAN PLÁCE, SW **GRADING PLAN**

DRAWN BY: DATE: SHEET# DRAWING: 201827-GD.DWG SDR 10/29/2017

LAST REVISION: 11-24-2013