

CITY OF ALBUQUERQUE

Hydrology Section Planning Department
David S. Campbell, Director



Timothy M. Keller, Mayor

May 9, 2019

James Lopez
Wilson & Company Inc.
4401 Masthead St NE, Suite 150
Albuquerque, NM, 87109

**RE: 1100 2nd St. SW – The Yards Parking
G&D Plan - Engineer's Stamp Date 5/01/2019
Hydrology File: K14D105**

Based upon the information provided in your submittal received 5/01/2019, the Grading and Drainage Plan is approved for Grading Permit with the following conditions.

1. Separate approval is required from Paul Olson at City Environmental Health prior to construction.
2. A Drainage Covenant is required to insure maintenance of the pond prior to sale of the property.
3. An Engineer's Certification is required prior to Hydrology release for Certificate of Occupancy.

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

Sincerely,

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

PO Box 1293

Albuquerque

NM 87103

www.cabq.gov

5/1/2019 M:\MSD\17-600-045-01\2_Disciplines_SHEETS\2_Sheets - civil\17604501-GD.dwg

Drainage Narrative

Introduction

The project site is located in southwest Albuquerque at 1100 Second Street SW. The site is bounded by the railroad tracks and facilities yard to the east and north, First Street and Second Street to the west, and Rail yard property to the south. The site is not located within a designated FEMA flood plain map, see firm map 35001C0334G.

Existing Conditions

The existing site topography generally slopes from east to west. A Grading and Drainage plan was completed by Isaacson & Arfman, P.A. for the site in May of 2013. From this plan the northeastern portion of the site (basin 101) is approximately 0.6 acres and drains to the south to a retention pond in the center of the site. The pond has a design storage of 2625 CF and has a peak flow rate of 4.6 cfs. Basin 102 is also from the previous grading & Drainage Plan, and drains to the south west through Basin 104. The site is still currently grading as it was intended in this report. This report did not analyze the portion of property to the west of the parking lot and south of Basin 102. This area has been calculated and follows a similar grading scheme as the previous basins draining from northeast to southwest. Basin 103 discharges to 1st street. Basin 102 drains through 104 and discharges to Second Street.

Interim Conditions

The proposed site will maintain the general flow from northeast to southwest. The existing retention pond will be moved from basin 101 and relocated to proposed basin 202 and will be a detention pond. The existing pond will be filled in so that area can be utilized as extra parking. The proposed pond will retain runoff from Basin 201 and will have a retaining volume equal to the existing pond. This retention area exceeds the first flush requirements for MS4 permitting. An inlet will be installed in the pond and will discharge the runoff that's excess of the existing retention volume. The outlet pipe will discharge to the inlet located at the southern end of First Street. The Proposed runoff will not exceed the existing runoff reaching Second Street. Basins 203 will continue to drain from northeast to southwest and will discharge to Second Street where it is currently discharging. Basin 203 will continue to drain from east to west and will discharge to First Street where it is currently discharging.

Pond 1

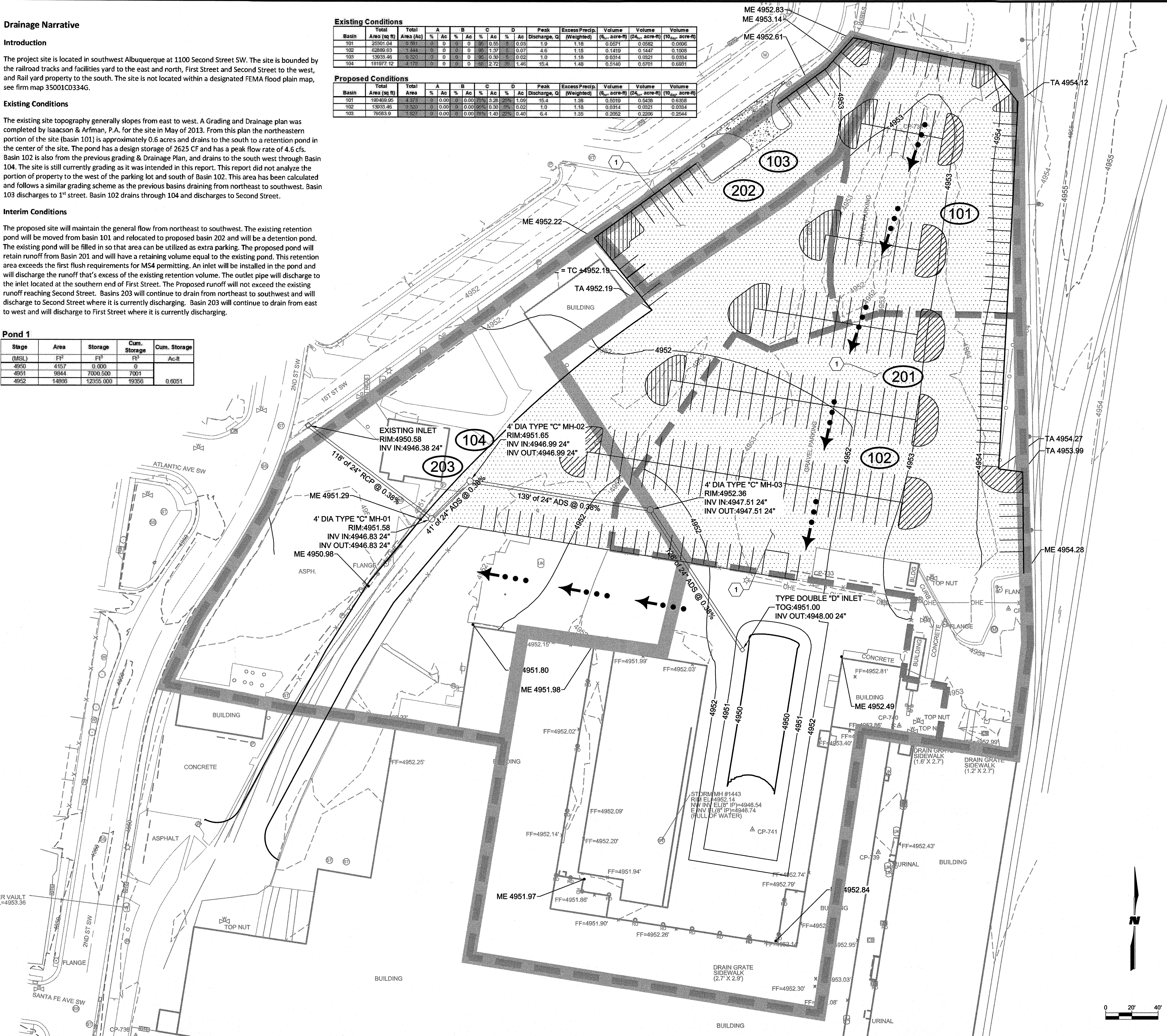
Stage	Area	Storage	Cum. Storage	Cum. Storage
(MSL)	FF ²	FF ³	FF ³	Ac-ff
4950	4157	0.000	0	
4951	9844	7000.500	7001	
4952	14898	12355.000	19356	0.0051

Existing Conditions

Basin	Total Area (Sq Ft)	Total Area (Ac)	% 1 Ac	% 2 Ac	% 3 Ac	% 4 Ac	Peak Discharge, G	Excess Precip. (Weighted)	Volume (Sq. acre-ft)	Volume (Ac. acre-ft)	Volume (Ac. acre-ft)
101	22501.04	0.51	0	0	0	0	0.00	0.00	0.00	0.00	0.00
102	62899.63	1.44	0	0	0	0	0.00	0.00	0.00	0.00	0.00
103	13633.46	0.31	0	0	0	0	0.00	0.00	0.00	0.00	0.00
104	191977.12	4.37	0	0	0	0	0.00	0.00	0.00	0.00	0.00

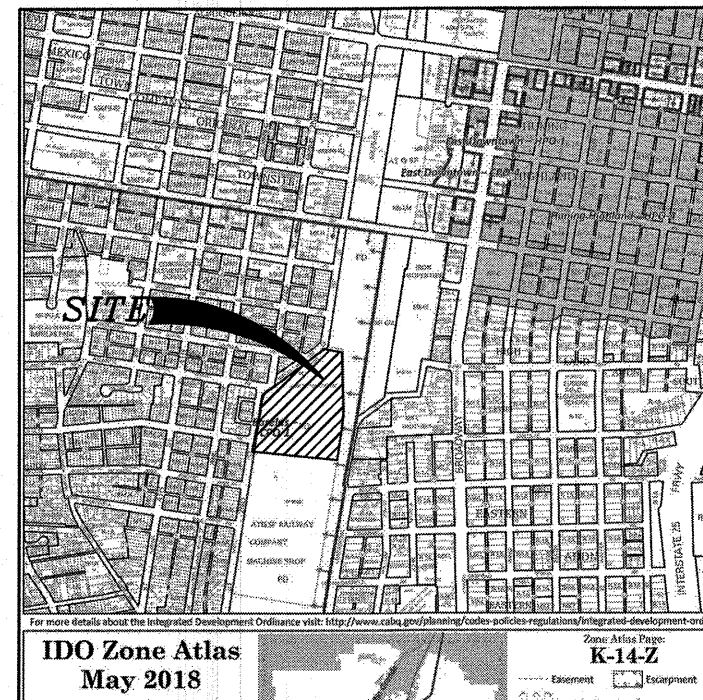
Proposed Conditions

Basin	Total Area (Sq Ft)	Total Area (Ac)	% 1 Ac	% 2 Ac	% 3 Ac	% 4 Ac	Peak Discharge, G	Excess Precip. (Weighted)	Volume (Sq. acre-ft)	Volume (Ac. acre-ft)	Volume (Ac. acre-ft)
101	190469.95	4.37	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
102	13633.46	0.31	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
103	79663.9	1.82	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

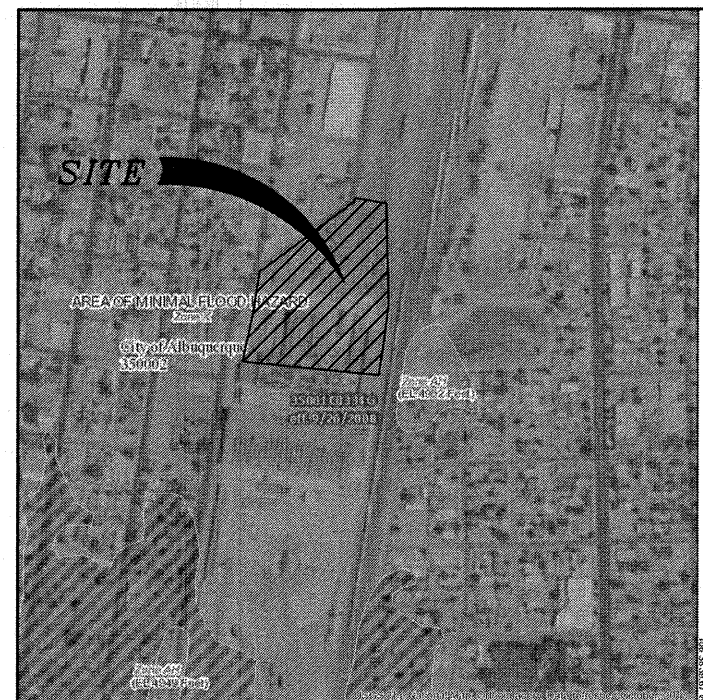


KEYNOTES

1. INSTALL ASPHALT MILLINGS PER DETAIL SHEET ----



VICINITY MAP
ZONE ATLAS MAP NO. 64



FEMA FLOODPLAIN
FIRM #35001C0334G



SOILS MAP
NRCS SOIL SURVEY, BERNALILLO COUNTY

LEGEND

	RECYCLED MILLINGS
	CONCRETE
	EXISTING BASIN
	PROPOSED BASIN
	WROUGHT IRON FENCE
	CHAIN LINK FENCE
	EXISTING MAJOR CONTOUR
	EXISTING MINOR CONTOUR
	PROPOSED MAJOR CONTOUR
	PROPOSED MINOR CONTOUR
	SWALE ARROW
	EXISTING BASIN I.D.
	PROPOSED BASIN I.D.

WILSON & COMPANY

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CONSULTANTS

SEAL

PROJECT NAME

REV.	DATE	DESCRIPTION	BY

PROJECT NO: 17-600-045-01
DESIGNED BY: JEL
DRAWN BY: SDO
CHECKED BY: XXX
DATE:

SHEET TITLE
GRADING AND DRAINAGE PLAN

SHEET NO:
C-103

CITY OF ALBUQUERQUE



May 10, 2019

Mr. Doug Hughes P.E., CFM,

This Letter serves as notice that the Grading and Drainage Plan title The Yards Parking Lot Improvements sealed 5/1/2019 by James Lopez (P.E. 24897) adequately addresses environmental issues related to the remediation of the site.

- 1) The design is consistent with the proposed Voluntary Remediation Program dated January 17, 2019 and submitted to the New Mexico Environment Department
- 2) The design is consistent with current environmental remediation work at this location

This letter is intended only to verify that the environmental issues are adequately addressed and does not address other concerns such as hydrology or hydraulics.

PO Box 1293

Thank you,

Albuquerque

Paul Olson, PE
Environmental Health ESD
505/768-2633

NM 87103

www.cabq.gov