CITY OF ALBUQUERQUE

Planning Department Alan Varela, Director



Mayor Timothy M. Keller

May 9, 2025

Tyler Geldmacher Wilson & Company Engineers & Architects 4401 Masthead St. NE Albuquerque, NM 87109

RE: Rail Trail – Roundabout – Mountain Rd & 19th St. Grading & Drainage Plan Engineer's Stamp Date: 05/07/2025 Hydrology File: J13D224 Case # HYDR-2025-00101

Dear Mr. Geldmacher:

PO Box 1293 Based upon the information provided in your submittal received 5/9/2025, the Grading & Drainage Plan **is approved** for Grading Permit or Building Permit. Please attach a copy of this approved plan in the construction sets for Building Permit processing along with a copy of this letter.

Albuquerque **PRIOR TO CERTIFICATE OF OCCUPANCY:**

NM 87103

1. Engineer's Certification, per the DPM Part 6-14 (F): *Engineer's Certification Checklist For Non-Subdivision* is required.

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As a reminder, if the project total area of disturbance (including the staging area and any work within the adjacent Right-of-Way) is 1 acre or more, then an Erosion and Sediment Control (ESC) Plan and Owner's certified Notice of Intent (NOI) is required to be submitted to the Stormwater Quality Engineer (Doug Hughes, PE, <u>jhughes@cabq.gov</u>, 505-924-3420) 14 days prior to any earth disturbance.

If you have any questions, please contact me at 505-924-3314 or amontoya@cabq.gov.

Sincerely,

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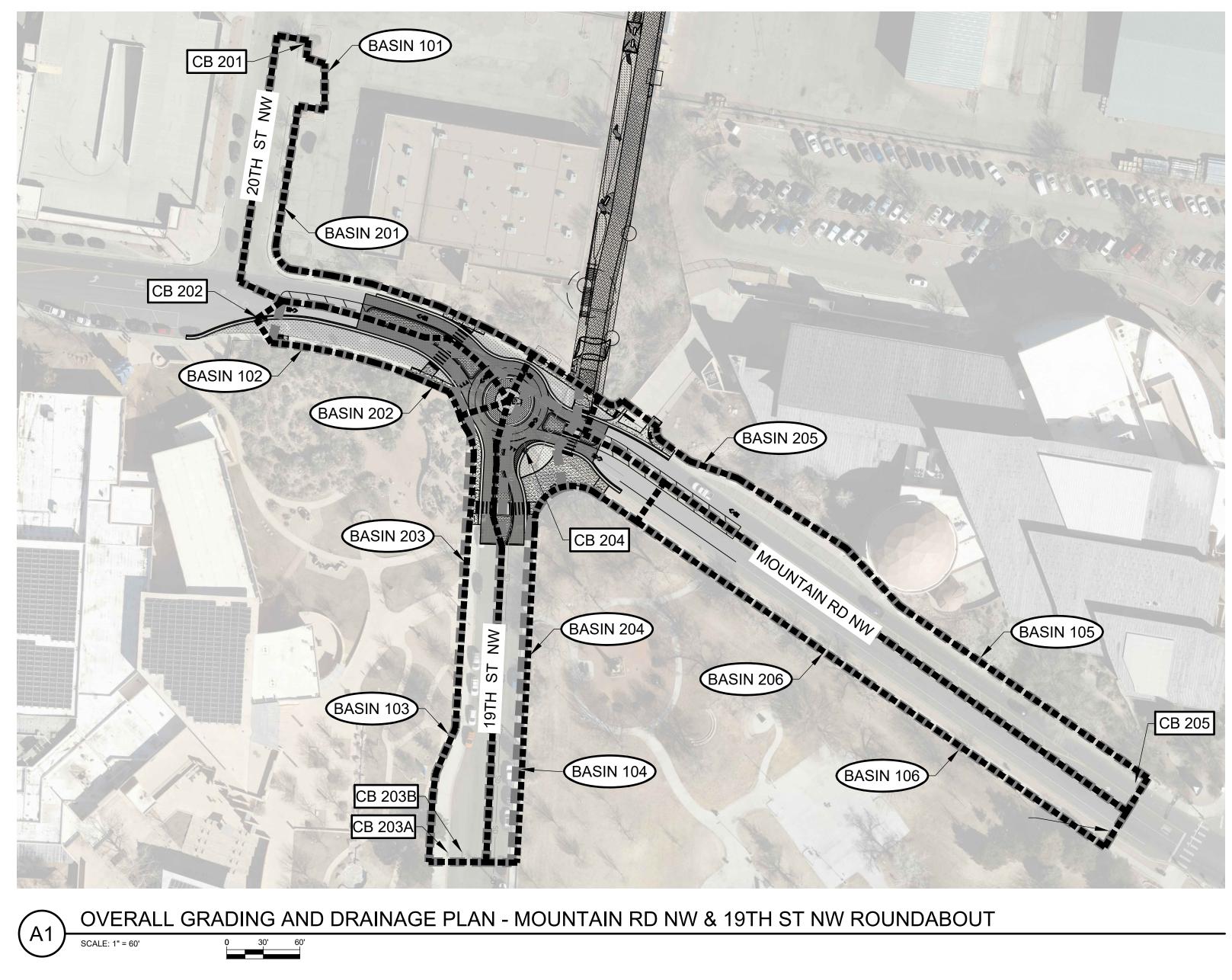
Anthony Montoya, Jr., P.E., CFM Senior Engineer, Hydrology Planning Department, Development Review Services

Existing Conditions

Basin	Total Area (sq ft)	Total Area (Ac)	Α		В		С		D		Pea	k Discharge,	Excess Precip. Volume		Volume	Volume	Volume	Notes	
			%	Ac	%	Ac	%	Ac		%	Ac	Q (cfs)	(Weighted)	(6 _{hr} , acre-ft)	(24 _{hr} , acre-ft)	(10 _{day} , acre-ft)	(10 _{day} , CF)		
101	13295.06	0.31	0	0.00	0	0.00	3	0.0	1 9	97	0.30	1.3	2.29	0.0582	0.0661	0.1007	4388	DRAINS W. TO 20TH ST, THEN N. TO INLET ON E. SIDE OF 20TH ST (CB 201)	
102	5257.43	0.12	0	0.00	0	0.00	0	0.0	0 1	00	0.12	0.5	2.33	0.0234	0.0267	0.0408	1779	DRAINS W. TO INLET ON S. SIDE OF MOUNTAIN RD	
103	14449.98	0.33	0	0.00	0	0.00	0	0.0	0 1	00	0.33	1.4	2.33	0.0644	0.0733	0.1122	4889	DRAINS S. TO INLETS ON W. SIDE OF 19TH ST (CB 203A/203B)	
104	10332.34	0.24	0	0.00	0	0.00	1	0.0	0 9	99	0.23	1.0	2.32	0.0458	0.0521	0.0797	3472	DRAINS TO INLET ON SE CORNER OF MOUNTAIN RD & 19TH ST	
105	18504.04	0.42	0	0.00	0	0.00	0	0.0	0 1	00	0.42	1.8	2.33	0.0825	0.0938	0.1437	6261	DRAINS E. TO INLET ON N. SIDE OF MOUNTAIN RD (CB 205)	
106	20643.62	0.47	0	0.00	0	0.00	15	0.0	7 8	35	0.40	2.0	2.14	0.0844	0.0952	0.1427	6215	DRAINS E. TO INLET ON S. SIDE OF MOUNTAIN RD (CB 206)	
SUM	82482.47	1.89	-	0.00	-	0.00	-	0.0	8	-	1.81	8.11	-	0.36	0.41	0.62	27002		

Proposed Conditions

Basin	Total Area	Total Area	Α		В		С		D		Peak Discharge,	Excess Precip.	Volume	Volume	Volume	Volume	Notes
	(sq ft)	(Ac)	%	Ac	%	Ac	%	Ac	%	Ac	Q (cfs)	(Weighted)	(6 _{hr} , acre-ft)	(24 _{hr} , acre-ft)	(10 _{day} , acre-ft)	(10 _{day} , CF)	
201	12244.18	0.28	0	0.00	0	0.00	3	0.01	97	0.27	1.2	2.29	0.0536	0.0608	0.0928	4042	DRAINS TO CB 201
202	7033.65	0.16	0	0.00	0	0.00	28	0.05	72	0.12	0.6	1.96	0.0264	0.0295	0.0432	1881	DRAINS TO CB 202
203	11706.54	0.27	0	0.00	0	0.00	0	0.00	100	0.27	1.2	2.32	0.0520	0.0592	0.0906	3947	DRAINS TO CB 203A/203B
204	17466.26	0.40	0	0.00	0	0.00	6	0.02	94	0.38	1.7	2.25	0.0752	0.0853	0.1296	5644	DRAINS TO CB 204
205	18261.79	0.42	0	0.00	0	0.00	1	0.00	99	0.42	1.8	2.32	0.0811	0.0922	0.1412	6151	DRAINS TO CB 205
206	17098.82	0.39	0	0.00	0	0.00	14	0.05	86	0.34	1.6	2.15	0.0703	0.0793	0.1190	5182	DRAINS TO CB 206
SUM	83811.26	1.92	-	0.00	-	0.00	-	0.14	-	1.79	8.17		0.36	0.41	0.62	26847	



Drainage Narrative

LEGAL DESCRIPTION: The proposed improvements are contained within the City of Albuquerque right of way limits at the intersection of Mountain Rd NW and 19th St NW.

AREA: 0.7 acres.

FLOOD HAZARD: From FEMA Flood Map panel 35001C0331H (effective 8/16/2012), the project site is located within flood hazard zone 'X', which corresponds to areas of minimal flood risk.

EXISTING CONDITIONS: The existing drainage basins have been delineated based on the locations of storm drain inlets along Mountain Rd NW and 19th St NW. These inlets collect runoff in the existing storm drain network beneath the roadways. Both Mountain Rd and 19th St are crowned, creating distinct drainage basins on either side of their respective centerlines. Runoff from Basin 101 drains west from the intersection of Mountain Rd and 19th St. Runoff is collected in the existing gutter on the north side of Mountain Rd and conveyed west to 20th St NW, then north to an existing curb inlet on the east side of 20th St. Basin 102 also drains west from the intersection and collects in the gutter on the south side of Mountain Rd. These flows are conveyed to a curb inlet just west of the intersection of 20th St and Mountain Rd. Basin 103 drains south of the intersection of Mountain Rd and 19th St and is collected in the gutter on the west side of 19th St and conveyed south to an existing curb inlet. Runoff in Basin 104 is conveyed to an existing curb inlet just southeast of the intersection of Mountain Rd and 19th St. Basins 105 and 106 flow east of the intersection of Mountain Rd and 19th St. Flows are collected in the gutters and are conveyed east to a pair of existing curb drop inlets on the north and south side of Mountain Rd.

OFFSITE FLOW: No offsite flows are contributed to the project site.

PROPOSED CONDITIONS: The proposed improvements include replacing the existing signalized intersection at Mountain Rd NW and 19th St NW with a roundabout. This redesign will necessitate the relocation of the curb and gutter near the intersection to accommodate the new layout. Additionally, existing curb inlets impacted by the relocation of the curb will be repositioned to be in-line with the proposed curb line.

DRAINAGE APPROACH: The existing flow patterns will not be modified significantly by the proposed improvements. CB 201, 203A/203B, 205, and 206 will remain unchanged from their existing condition. However, CB 202 has been shifted north from it's existing location to be in-line with the proposed southern curb line along Mountain Rd. Similarly, CB 204 has been moved north of its original location to be aligned with the proposed curb line southeast of the proposed roundabout. The existing drainage pattern will be maintained. The curb inlets have been labeled to correspond with the basin they serve. For example, Basin 201 runoff drains west of the roundabout to CB 201, Basin 202 runoff drains west of the roundabout and is captured by CB 202, and so on.

RUNOFF: (Precipitation Zone 2) Existing and proposed basins were determined by evaluating drainage patterns. The calculations illustrated on this sheet were performed in accordance with the City of Albuquerque Development Process Manual. See tables on this sheet for calculations and results.

