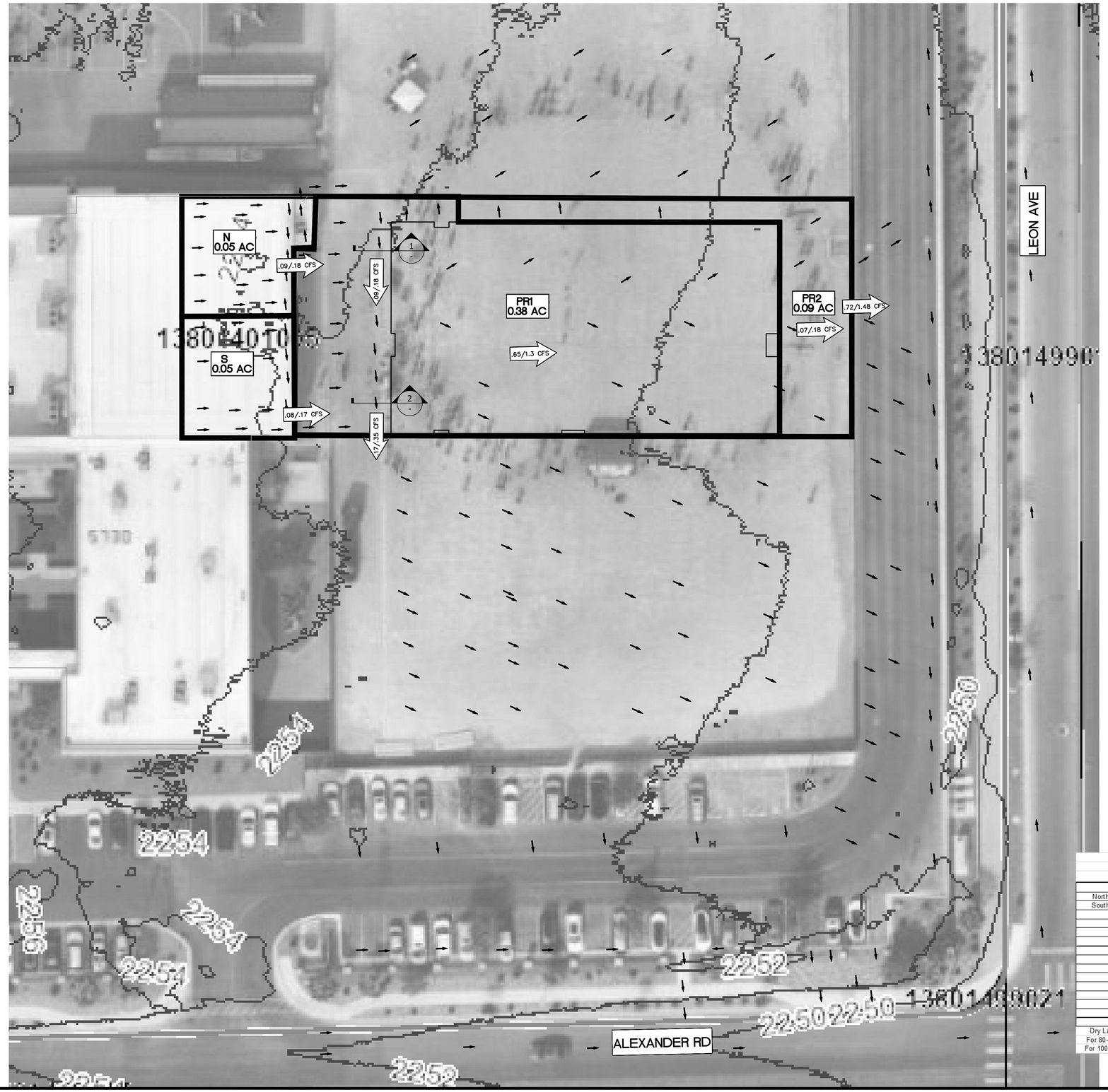

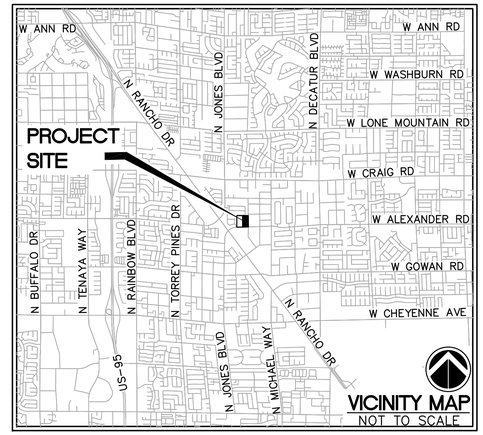

REV	REVISION DESCRIPTION	SHEETS	APP BY	APP DATE

LEGEND

- BASIN BOUNDARY
- OF1 / 25.61 AC — BASIN OR POINT OF INTEREST / ACREAGE
- 39/125 CFS — SURFACE FLOW MAGNITUDE AND DIRECTION (Q10/Q100)
- 1 / - — NORMAL DEPTH LOCATION / NORMAL DEPTH SECTION NUMBER

GRAPHIC SCALE

20 0 10 20 40 80

(IN FEET)
1 inch = 20 ft.

Interim Condition Results

Basin	Acreage	Q_{10}	Q_{100}	Collection Point	Q_{10}	Q_{100}
N	0.05	0.09	0.18	South	0.17	0.35
S	0.05	0.08	0.17	East	0.72	1.48
PR1	2.66	0.65	1.3			
PR2	6.49	0.09	0.18			

Concentration point flow South is the algebriac sum of N + S and East is the algebriac sum of PR1 + PR2

Interim/Ultimate Condition Street Flow Calculations

Location	Sec #	Slope (%)	R.O.W. Width (ft)	Q_{10} (cfs)	V_{10} (ft/s)	d_{10} (ft)	$V_{10} * d_{10}$	Q_{100} (cfs)	V_{100} (ft/s)	d_{100} (ft)	$V_{100} * d_{100}$	Dry Lane (ft)
North End of Building	1	0.50	N/A	0.09	1.59	0.07	0.11	0.18	2.03	0.11	0.22	N/A
South End of Building	2	0.50	N/A	0.17	1.99	0.10	0.20	0.35	2.54	0.17	0.43	N/A

Dry Lane Calculations:	Dry Lane = ((Crown - d_{10}) / Cross Slope)-(Center Turn Lane / 2)
For 80-foot Right of Way:	Dry Lane = ((0.83 - d_{10}) / .02) - 7
For 100-foot Right of Way:	Dry Lane = ((1.03 - d_{10}) / .02) - 7

TITLE: **FIGURE 4**
INTERIM/ULTIMATE CONDITION BASIN MAP

PROJECT: **FOUNDERS ACADEMY**
CITY OF LAS VEGAS, NEVADA

Impulse
Civil Engineering & Planning
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W.O. # : W.O. #2360-2320
BY : P.M.
DATE : 10/04/2022
SCALE : 1"=20'

SHEET 1 OF 1 SHEETS

File: P:\Clients\Civil 3D\Founders Academy\HYDROLOGY\LOCATION AND VICINITY MAP FOUNDERS ACADEMY.dwg Sheet: FIGURE 4 Date: 03-Mar-23 9:08:02am