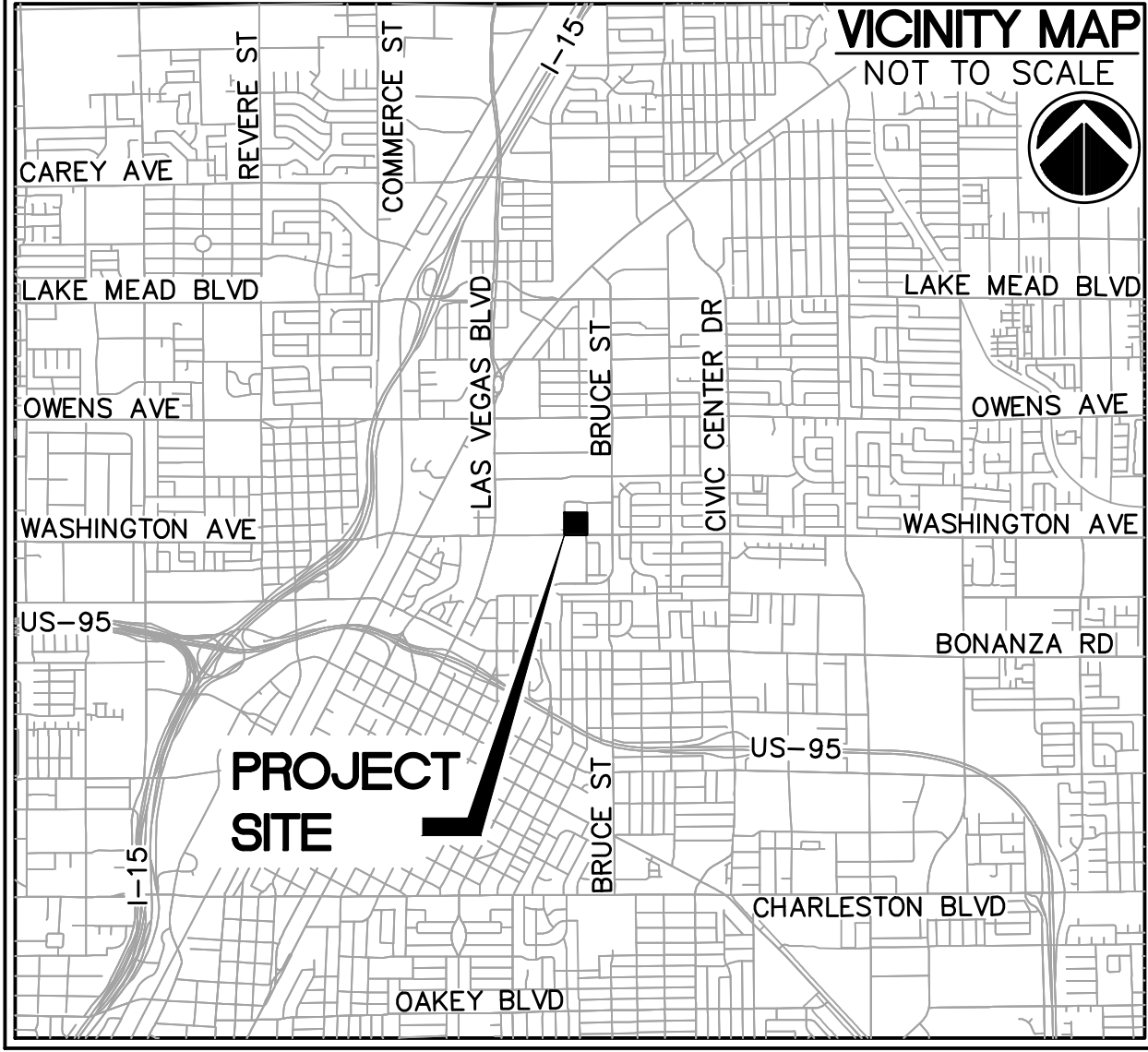
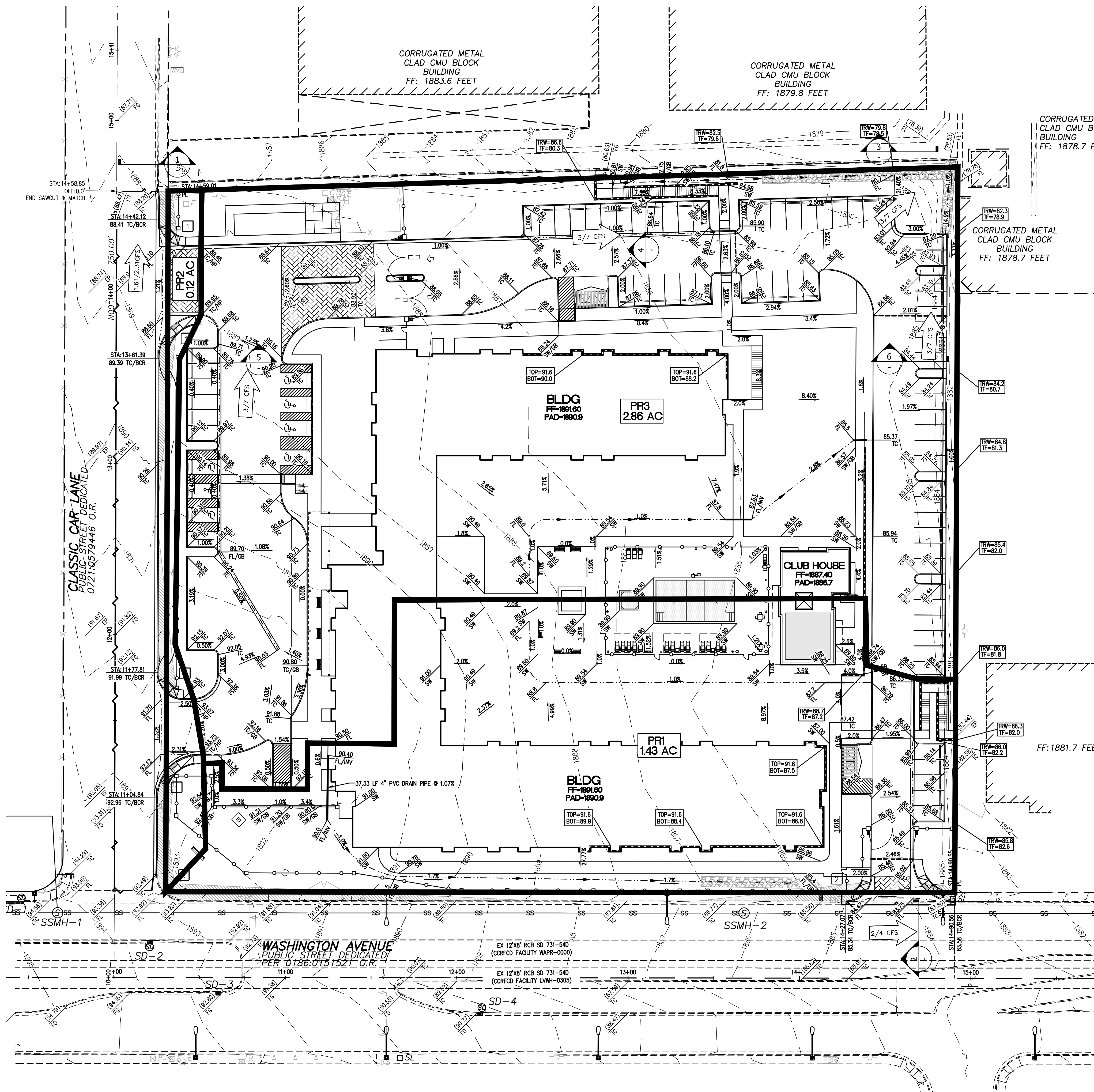


File: P:\Clients\Converse Design\Blind Center of Nevada\Map Blind Center.dwg, Sheet: FIGURE 4, Date: 21-Apr-23 11:11:58am



LEGEND

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

Interim Condition Results						
Basin	Acreage	Q ₁₀	Q ₁₀₀	Collection Point	Q ₁₀	Q ₁₀₀
PR1	1.43	2	4			
PR2	0.12	<1	<1			
PR3	2.86	3	7			

Interim Condition Street Flow Calculations										
Street Name	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
Classic Car Lane *	1.40	60	1.61	2.21	0.29	0.64	2.31	2.40	0.32	0.77
Washington Avenue **	1.79	100	2.00	2.55	0.30	0.77	4.00	2.98	0.36	1.07
Wall Openings ***	1.00	N/A	3.00	2.45	0.31	0.76	7.00	3.32	0.53	1.76
North Drive Aisle	1.00	N/A	3.00	1.74	0.22	0.38	7.00	2.19	0.28	0.61
West Drive Aisle	0.40	N/A	3.00	1.17	0.24	0.28	7.00	1.52	0.30	0.46
East Drive Aisle	1.00	N/A	3.00	2.12	0.35	0.74	7.00	2.60	0.43	1.12
Dry Lane Calculations:										
For 80-foot Right of Way: Dry Lane = ((Crown - d*) / Cross Slope) * (Center Turn Lane / 2)										
For 100-foot Right of Way: Dry Lane = ((0.83 - d*) / .02) - 7										
Dry Lane = ((1.03 - d*) / .02) - 7										
* Flow in Classic Car Lane is referenced from the Blind Center of Nevada DS 4768 + PR2										
** Flow in Washington Avenue is PR1										
*** Flow at wall openings is PR3										

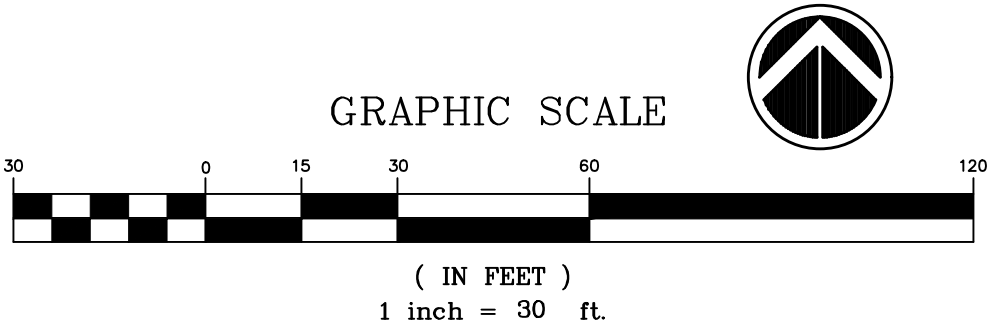


FIGURE 4
INTERIM/ULTIMATE CONDITION BASIN MAP
BLIND CENTER OF NEVADA
CITY OF LAS VEGAS, NEVADA

Impulse
Civil Engineering & Planning

$I = \int F \cdot dt$

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W.O. # : 03-2306
BY : PLV
DATE : 02/24/2023
SHEETS : 1 OF 1
SCALE : 1"=60'