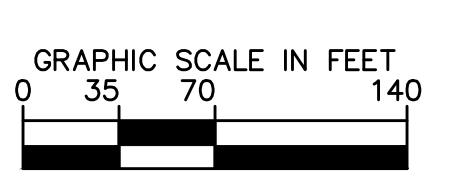
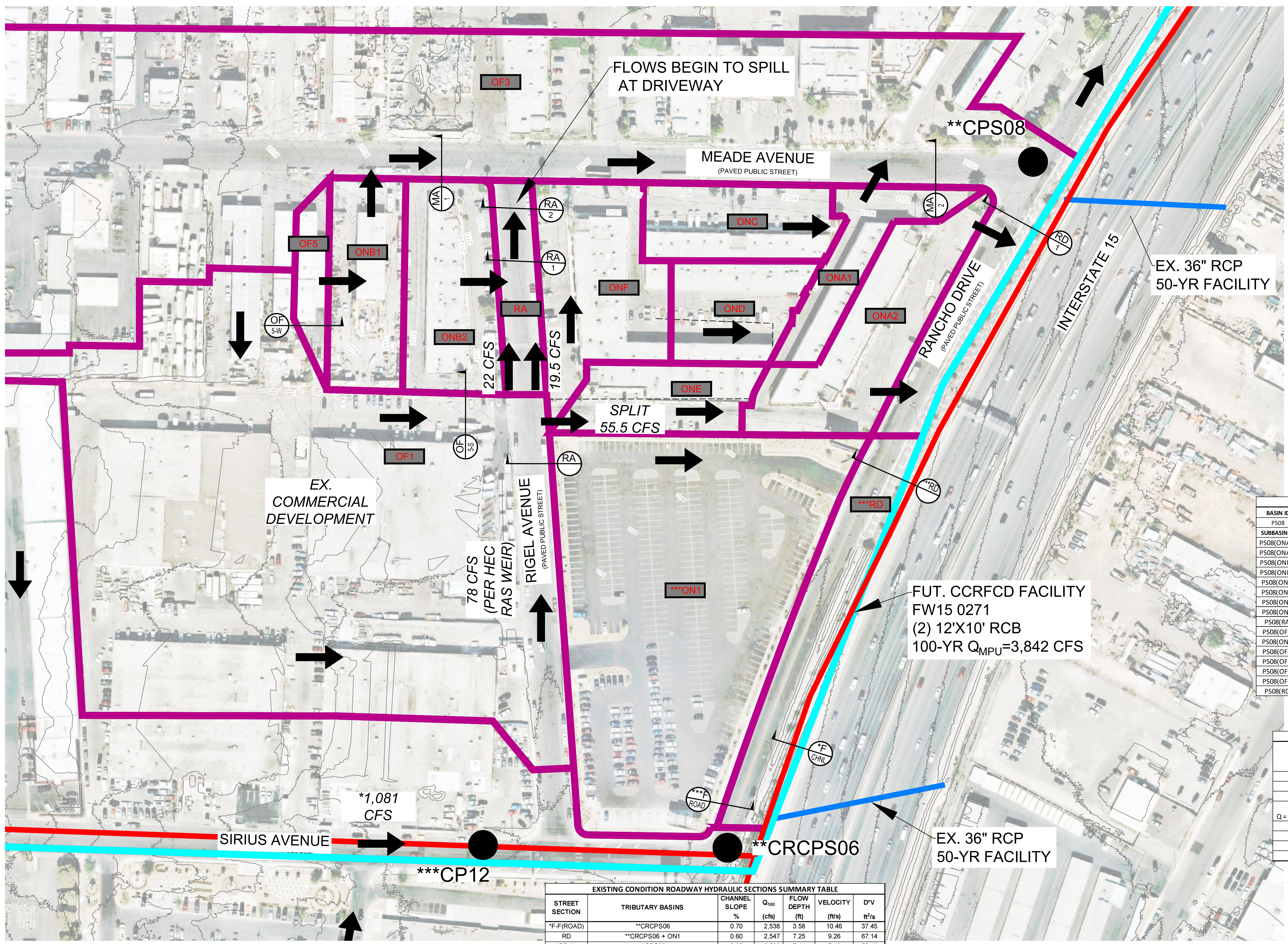


Plotted By: Schofield, Sean Sheet Set: K:\Projects\2023\06\17\10pm_KC\LA_V_Civil\022965012 - Area 15 District 2 (Fisher Brothers)\Reports\DRAINAGE\02_ADD\Figures\EX_ADD.dwg
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- LEGEND**
- XXX BASIN ID
 - XXXX PRORATED BASIN ID
 - Basin Boundary (cyan line)
 - PRORATED BASIN BOUNDARY (magenta line)
 - FUTURE CCRCFD REGIONAL FACILITY (red line)
 - EXITING DRAINAGE FACILITY (blue line)
 - FLOW ARROW
 - CPX CONCENTRATION POINT
 - SECTION ID (circle with X)

* REFERENCED FROM AREA 15 STUDY (DS-4921)
 ** REFERENCED FROM CITY OF LAS VEGAS CENTRAL NEIGHBORHOOD STUDY
 *** REFERENCED FROM AREA 15 EVENT PARKING LOT (DS-5288)

NOTE:
 1,081-CFS REFERENCED FOR FLOWRATE AT INTERSECTION OF PRIVATE DRIVEWAY & SIRIUS AVENUE. REFER TO APPENDIX D FOR REFERENCE Q.

BASIN ID	Q ₁₀₀ (cfs)	Q ₁₀ (cfs)	AREA (ac)	Q ₁₀₀ (cfs/ac)	Q ₁₀ (cfs/ac)
PS08	235	100	114.6	2.05	0.87
SUBBASIN ID	Q ₁₀₀ (cfs)	Q ₁₀ (cfs)	AREA (ac)	Q ₁₀₀ (cfs/ac)	Q ₁₀ (cfs/ac)
PS08(ON1)	1	0.5	0.6	2.05	0.87
PS08(ON2)	2.5	1	1.1	2.05	0.87
PS08(ONB1)	2	1	0.8	2.05	0.87
PS08(ONB2)	2	1	1.0	2.05	0.87
PS08(ONC)	1	0.5	0.7	2.05	0.87
PS08(OND)	1	0.5	0.6	2.05	0.87
PS08(ONE)	1	0.5	0.6	2.05	0.87
PS08(ONF)	2.5	1	1.2	2.05	0.87
PS08(RA)	1	<1	0.4	2.05	0.87
PS08(OF5)	1	<1	0.3	2.05	0.87
PS08(ON1)	9	4	4.4	2.05	0.87
PS08(OF1)	19	8	9.2	2.05	0.87
PS08(OF2)	77	33	37.5	2.05	0.87
PS08(OF3)	84	36	40.9	2.05	0.87
PS08(OF4)	29	12	14.2	2.05	0.87
PS08(RD)	2	1	1.1	2.05	0.87

Basin ID / Comb Pt	Area / Tributary Area (ac)	Q ₁₀₀ (cfs)	Q ₁₀ (cfs)
**CPS06	N/A	1045	405
*CP05	N/A	31	18
*EX10	N/A	7	4
**CP12	N/A	1158	459
Q = 1081-CFS + **PS08(OF2)	N/A	2538	873
**CRCP506	N/A	235	100
**PS08	N/A	2582	917
**CPS08	N/A	3762	1226

STREET SECTION	TRIBUTARY BASINS	CHANNEL SLOPE %	Q ₁₀₀ (cfs)	FLOW DEPTH (ft)	VELOCITY (ft/s)	D'V (ft ² /s)
*F-F(ROAD)	**CRCP506	0.70	2,538	3.58	10.46	37.45
RD	**CRCP506 + ON1	0.60	2,547	7.25	9.26	67.14
RD-1	**CPS08	0.25	2,582	7.41	7.48	55.43
RA (WEST)	**PS08(OF1) + 78-cfs = 97 cfs	1.00	22.0	0.63	3.34	2.10
RA (EAST)	**PS08(OF1) + 78-cfs = 97 cfs	1.00	19.5	0.50	2.92	1.46
RA-1 (CAPACITY)	(WEST)+(EAST) + 1/2OF5 + 1/2ONB2+RA = 43 cfs - (SPLIT 25 cfs)=18 cfs	0.70	18.0	0.50	2.80	1.40
RA-2 (CAPACITY)	RA-1 (CAPACITY) + 1/2ONB2 = 19 cfs - (SPLIT 14 cfs) = 5 cfs	0.30	5.0	0.49	1.59	0.78
MA-1	OF5+1/2OF3+ONB1	3.30	86.5	0.64	6.18	3.96
MA-2	(WEST)+(EAST)+OF5+ONB1+ONB2+RA+ONF+ONC+OF3	0.30	135.0	1.02	3.51	3.58

SECTIONS F-F(ROAD) & RD: FLOW DEPTH TAKEN FROM CHANNEL FLOWLINE
 OFFSET CROWN AT RANCHO FOR SECTION F-F
 78-CFS PER RAS ANALYSIS FLOWS NORTH IN RIGEL AVENUE

ID	TRIBUTARY BASINS	CHANNEL SLOPE %	Q ₁₀₀ (cfs)	FLOW DEPTH (ft)	VELOCITY (ft/s)	D'V (ft ² /s)	TYPE
*F-F(CHNL)	Channel Capacity	0.70	270	3.00	6.43	19.29	TRAP 7' BW, 4:1 SS
OF5(West)	1/2 OF5	2.00	0.5	0.07	2.55	0.18	RECT 3' BW, 0:1SS
OF5(South)	1/2 OF5	3.00	0.5	0.20	1.58	0.32	TRAP 0' BW, 8:1 SS
RD-1 (CHNL)	Channel Capacity	0.25	302	4.62	3.01	13.91	TRAP 7' BW, 4:1 SS

AREA 15 OFFSITE LOTS
 PREPARED FOR
AREA 15 LAS VEGAS, LLC.
 CITY OF LAS VEGAS, NEVADA

ONSITE EXISTING CONDITION DRAINAGE MAP

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NO.	REVISIONS	DATE	BY