



- LEGEND**
- XX BASIN ID
 - XXX-X PRORATE BASIN ID
 - BASIN BOUNDARY
 - PRORATE BASIN BOUNDARY
 - FLOW ARROW
 - SECTION ID
 - CPX CONCENTRATION POINT
 - EXISTING STORM DRAIN

**SAGE COLLEGIATE CHARTER SCHOOL EXPANSION PHASE II
PROPOSED FLOW SUMMARY TABLE**

BASIN ID/ COMB. PT.	BASIN AREA (ac)	100-YR FLOW (cfs)	10-YR FLOW (cfs)
DON1	0.95	3	1
OFF1	2.81	10	6
OFF1-A-C	-	4	2
OFF1-D	-	6	4
HS1	0.29	1	1
CP1	-	8	4

PROPOSED CONDITION PRORATED FLOW SUMMARY

Proposed Onsite and Offsite					
SUBBASIN	Q ₁₀₀ (cfs)	Q ₁₀ (cfs)	AREA (ac)	CFS/ACRE ₁₀₀	CFS/ACRE ₁₀
DON1	3	1	0.95	3.16	1.05
OFF1	10	6	2.81	3.56	2.14
Proposed Onsite and Offsite Prorated Basins					
SUBBASIN	Q ₁₀₀ (cfs)	Q ₁₀ (cfs)	AREA (ac)	CFS/ACRE ₁₀₀	CFS/ACRE ₁₀
DON1-A	3	1	0.87	3.16	1.05
DON1-B	<1	<1	0.08	3.16	1.05
TOTAL	3	1	0.95	NA	NA
SUBBASIN	Q ₁₀₀ (cfs)	Q ₁₀ (cfs)	AREA (ac)	CFS/ACRE ₁₀₀	CFS/ACRE ₁₀
OFF1-A	1	1	0.35	3.56	2.14
OFF1-B	1	<1	0.18	3.56	2.14
OFF1-C	2	1	0.53	3.56	2.14
OFF1-D	6	4	1.75	3.56	2.14
TOTAL	10	6	2.81	NA	NA

SWALE HYDRAULIC SECTIONS

SWALE SECTION	TRIBUTARY BASIN	CHANNEL SLOPE %	Q ₁₀₀ (cfs)	FLOW DEPTH (ft)	VELOCITY (ft/s)	D*V (ft ² /s)	TYPE	SIDE SLOPES	Req'd d ₅₀	
SW-1	DON1 + OFF1-A+ OFF1-B	1.00	5.0	0.76	2.18	1.66	V	4:1	4:1	6"
CH-1	DON1 + OFF1-A+ OFF1-B	1.00	5.0	0.37	2.38	0.88	IRREGULAR	N/A	N/A	N/A

PROPOSED ONSITE HYDRAULIC SECTIONS

SECTION	TRIBUTARY BASINS	CHANNEL SLOPE %	Q ₁₀₀ (cfs)	FLOW DEPTH (ft)	*FLOW LINE (ft)	*FLOW LINE + 2D (ft)	*FFE BLDG (ft)	BLDG PROTECTED?
DON1-A1	1/2'DON1-A	0.50	1.5	0.31	70.01	70.63	71.00	YES
DON1-A2	1/2'DON1-A	0.50	1.5	0.36	69.03	69.75	71.00	YES
DON1-B	DON1-B + OFF1-A	0.50	1.0	0.30	70.36	70.96	71.00	YES

*Add 2100 ft

STREET HYDRAULIC SECTIONS

STREET SECTION	TRIBUTARY BASINS	SLOPE %	Q ₁₀₀ (cfs)	FLOW DEPTH (ft)	VELOCITY (ft/s)	D*V (ft ² /s)	Q ₁₀ (cfs)	FLOW DEPTH (ft)	VELOCITY (ft/s)	D*V (ft ² /s)	DRY LANE
HS-1	CP1	1.50	8.0	0.44	3.29	1.45	4.0	0.37	2.79	1.03	20.5

APN: 139-31-801-019 CITY OF LAS VEGAS (NOT A PART)

APN: 139-31-411-156 GIOKAR LLC (NOT A PART)

APN: 139-31-411-157 COURTNEY LARRY BRITTON II (NOT A PART)

APN: 139-31-411-158 LOPEZ AMPARO D & LUIS G AND LOPEN ELIZABETH Y (NOT A PART)

APN: 139-31-411-159 ROEDER ROBERT P & PATRICIA A (NOT A PART)

APN: 139-31-801-109 RED HOOK SAGE LLC

APN: 139-31-801-019 CITY OF LAS VEGAS (NOT A PART)

EX MEOK0048 18' X 9' RCB

EX MEOK0079 18' X 8' RCB

EX MEOK0070 7' X 6' RCB

EX 10' DROP INLET

EX DI

EX DI

EX DI

PROPOSED CONDITIONS BASIN MAP

SAGE COLLEGIATE PHASE II PREPARED FOR RED HOOK SAGE LLC

CITY OF LAS VEGAS NEVADA

NO. REVISIONS DATE BY

SHEET NUMBER PRO

SHEET OF 10

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