

SKYE KNOLL
SUMMERLIN VILLAGE 24
PARCEL E

SUMMERLIN VILLAGE 24
NP-1 PARK

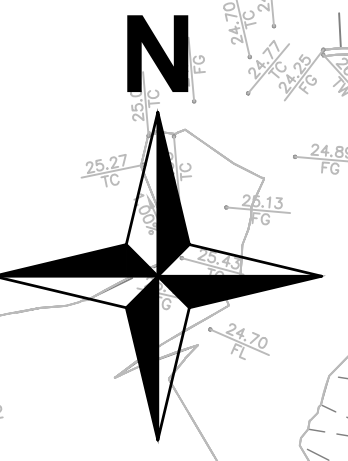
V24 PARK
9 CFS
(REMAINS OFF-SITE)

ON-1
11.19 CFS

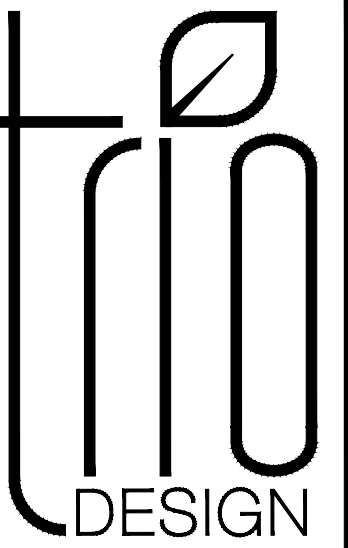
SKYKN
18 CFS

ON-2
1.98 CFS

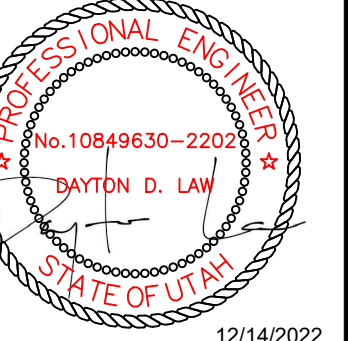
TOTAL SITE
DISCHARGE
29.19 CFS



DRAINAGE BASINS			
BASIN	BASIN AREA (ACRE)	Q ₁₀₀ (CFS)	100 YR UNIT FLOW (CFS/ACRE)
SKYN	N/A	18.0	N/A
ON-1	5.15	11.19	2.63
ON-2	0.74	1.98	3.22
TOTAL (ON-SITE)	5.89	29.19 (TO 48" RCP)	



4040w.daybreak.pkwy #110
south Jordan, ut 84009
801.417.9951
www.triodesigninc.com



12/14/2022

Project Name:

STONEBRIDGE STAKE
CENTER
876 CROSSBRIDGE DRIVE
LAS VEGAS, NV 89138

Project For:
THE CHURCH OF
JESUS CHRIST
OF LATTER-DAY SAINTS

REVISIONS:
CONTRACTOR TO VERIFY DRAWINGS IN
FIELD. USE LAST REVISION DATE.

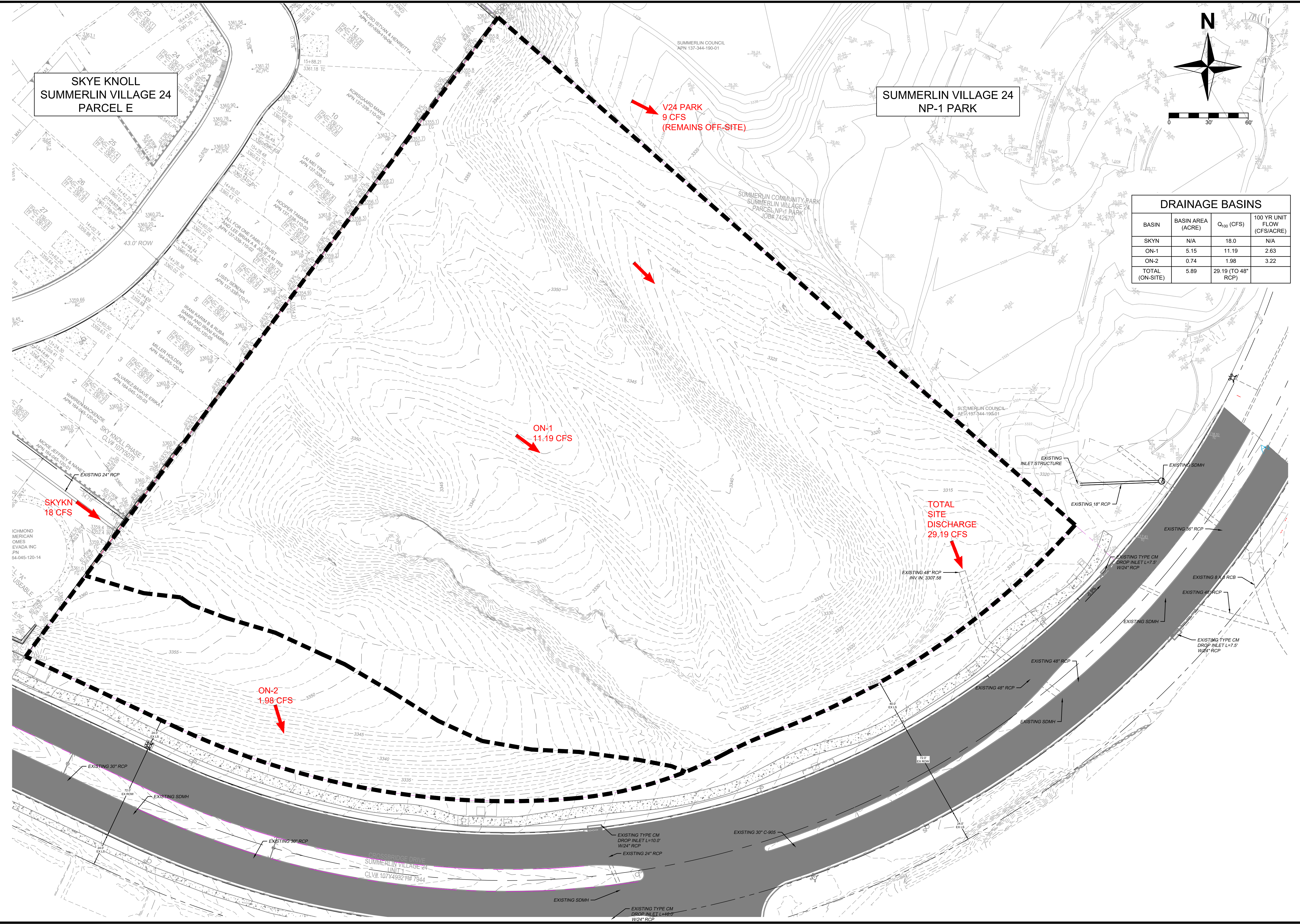
NO.	DATE	DESCRIPTION

Date:
12/14/2022

Property Number:
501539920050101

Sheet Title:
EXHIBIT D-
EXISTING
CONDITIONS

Sheet No.:
1 OF 2



Section ID	Q ₁₀₀ (cfs)	Section Type	Running Slope (%)	Velocity (ft/s)	Max Flow Depth (ft)	Top Width (ft)
1.1	0.88*	Shallow Swale	3.90	1.94	0.24	3.78
1.2	0.88*	Shallow Swale	4.50	2.29	0.31	2.48
2.1	6.22	Concrete Parking Swale	0.50	2.08	0.22	21.53
2.2	3.11*	Curb & Gutter	0.50	2.65	0.37	8.64
3	1.84	Curb & Gutter	4.80	5.88	0.23	4.60
4.1	0.73*	Shallow Swale	3.60	1.72	0.23	3.68
4.2	1.10	Shallow Swale	1.50	1.44	0.31	4.93
4.3	2.20	Shallow Swale	1.80	1.75	0.36	6.97
5	0.46	Shallow Swale	5.00	1.73	0.20	2.65
6.1	0.85*	Shallow Swale	2.90	1.87	0.29	3.13
6.2	1.70	Shallow Swale	6.60	3.09	0.33	3.33
7.1	1.80*	Concrete Parking Swale	0.50	1.46	0.28	14.00
7.2	1.80*	Curb & Gutter	0.50	2.19	0.30	8.50
7.3	5.39	Concrete Parking Swale	3.00	4.09	0.30	12.71
7.4	5.39	Curb & Gutter	3.00	3.96	0.27	22.30
SB4	0.89	Curb & Gutter	0.50	1.98	0.25	5.90

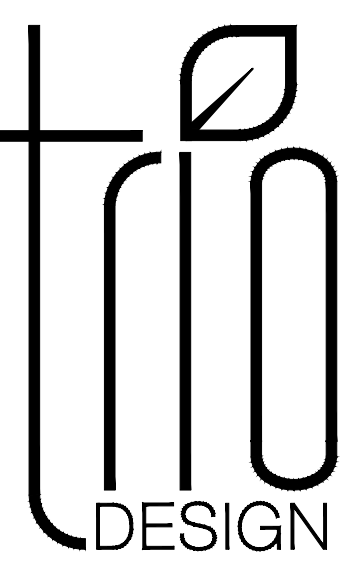
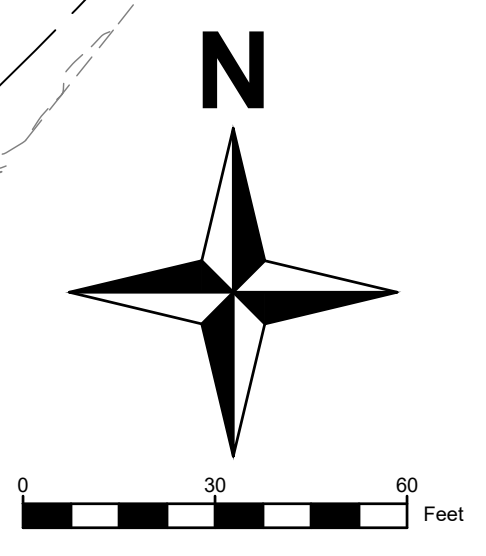
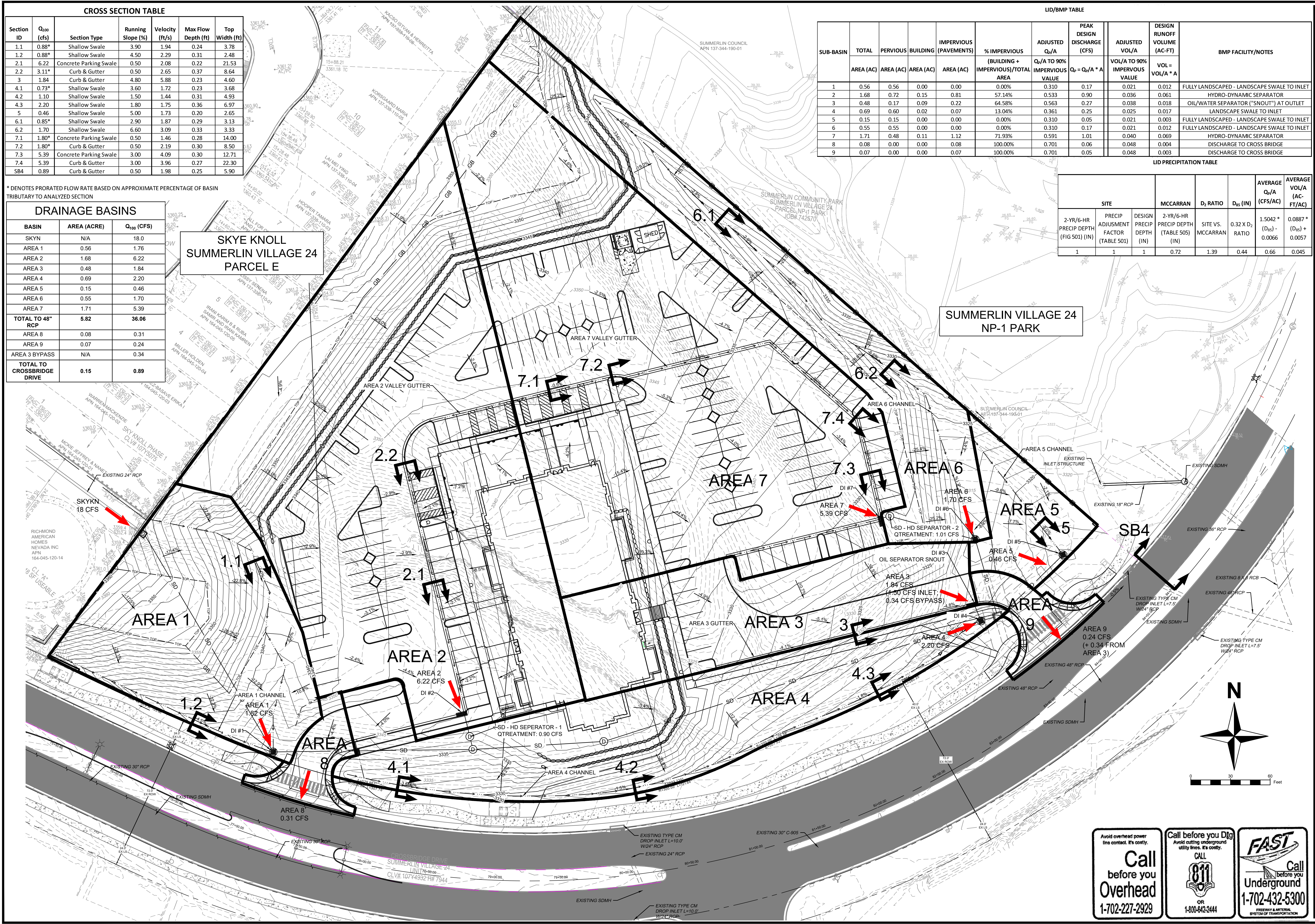
* DENOTES PRORATED FLOW RATE BASED ON APPROXIMATE PERCENTAGE OF BASIN TRIBUTARY TO ANALYZED SECTION

BASIN	AREA (ACRE)	Q ₁₀₀ (CFS)
SKYKN	N/A	18.0
AREA 1	0.56	1.76
AREA 2	1.68	6.22
AREA 3	0.48	1.84
AREA 4	0.69	2.20
AREA 5	0.15	0.46
AREA 6	0.55	1.70
AREA 7	1.71	5.39
TOTAL TO 48" RCP	5.82	36.06
AREA 8	0.08	0.31
AREA 9	0.07	0.24
AREA 3 BYPASS	N/A	0.34
TOTAL TO CROSSBRIDGE DRIVE	0.15	0.89

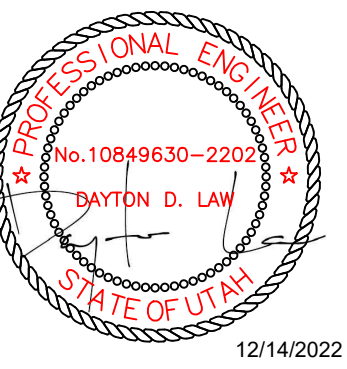
SKYE KNOLL
SUMMERLIN VILLAGE 24
PARCEL E

SUB-BASIN	TOTAL	PERVIOUS	BUILDING	IMPERVIOUS	% IMPERVIOUS	ADJUSTED	PEAK	ADJUSTED	DESIGN	BMP FACILITY/NOTES
	AREA (AC)	AREA (AC)	AREA (AC)	AREA (AC)	(BUILDING + IMPERVIOUS)/TOTAL AREA	Q ₁₀₀ /A TO 90% IMPERVIOUS VALUE	DESIGN DISCHARGE (CFS)	VOL/A TO 90% IMPERVIOUS VALUE	VOL = VOL/A * A	
1	0.56	0.56	0.00	0.00	0.00%	0.310	0.17	0.021	0.012	FULLY LANDSCAPED - LANDSCAPE SWALE TO INLET
2	1.68	0.72	0.15	0.81	57.14%	0.533	0.90	0.036	0.061	HYDRO-DYNAMIC SEPARATOR
3	0.48	0.17	0.09	0.22	64.58%	0.563	0.27	0.038	0.018	OIL/WATER SEPARATOR ("SNOUT") AT OUTLET
4	0.69	0.60	0.02	0.07	13.04%	0.361	0.25	0.025	0.017	LANDSCAPE SWALE TO INLET
5	0.15	0.15	0.00	0.00	0.00%	0.310	0.05	0.021	0.003	FULLY LANDSCAPED - LANDSCAPE SWALE TO INLET
6	0.55	0.55	0.00	0.00	0.00%	0.310	0.17	0.021	0.012	FULLY LANDSCAPED - LANDSCAPE SWALE TO INLET
7	1.71	0.48	0.11	1.12	71.93%	0.591	1.01	0.040	0.069	HYDRO-DYNAMIC SEPARATOR
8	0.08	0.00	0.00	0.08	100.00%	0.701	0.06	0.048	0.004	DISCHARGE TO CROSS BRIDGE
9	0.07	0.00	0.00	0.07	100.00%	0.701	0.05	0.048	0.003	DISCHARGE TO CROSS BRIDGE

SITE	MCCARRAN	D ₂ RATIO	D ₂₅ (IN)	AVERAGE Q ₁₀₀ /A (CFS/AC)	AVERAGE VOL/A (AC-FT/AC)
2-YR/6-HR PRECIP DEPTH (FIG 501) (IN)	PRECIP ADJUSTMENT FACTOR (TABLE 501)	DESIGN PRECIP DEPTH (IN)	2-YR/6-HR PRECIP DEPTH (TABLE 505) (IN)	SITE VS. MCCARRAN	0.32 X D ₂ RATIO
1	1	1	0.72	1.39	0.44
				1.5042 * (D ₂₅) - 0.0066	0.0887 * (D ₂₅) + 0.0057
				0.66	0.045



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Revisions:
CONTRACTOR TO VERIFY DRAWINGS IN FIELD. USE LAST REVISION DATE.

NO.	DATE	DESCRIPTION

Date: 12/14/2022

Property Number: 501539920050101

Sheet Title: EXHIBIT E- PROPOSED CONDITIONS

Sheet No.: 2 OF 2

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