

Sewer Narrative

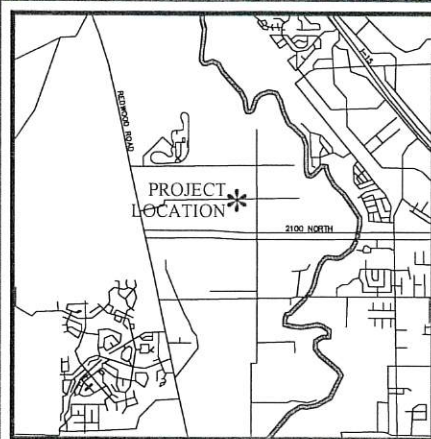
Design Criteria

Minimum Pipe Size:	8"
Minimum Pipe Slope:	0.4%
Manning's N Value:	0.013
Design Flow:	
Residential	100 gallons per person per day 3.8 Capita/Unit Peak Factor of 4
Commercial/Office	30 gallons per person per day 1 person per 250 sqft of building floor area Peak factor of 4

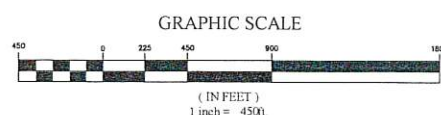
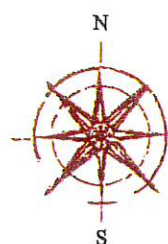
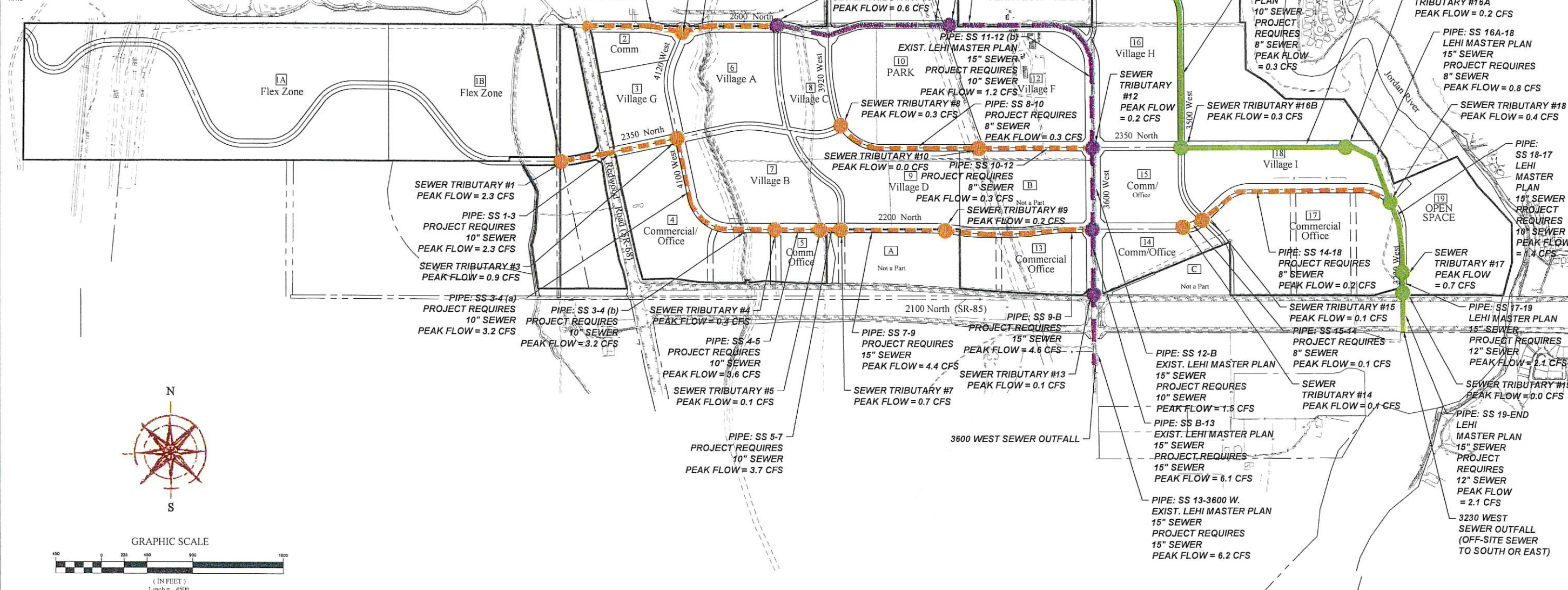
Design Summary

Holbrook Farms sewer will discharge to two different future sewer lines located at the south end of 3600 West and 3230 West based on the Lehi City sewer master plan. The total sewer discharge for the proposed project improvements of Holbrook farms is 2,890 gpm to the 3600 West outfall and 936 gpm to the 3230 West outfall for the peak instantaneous flow. Sheet SS02 illustrates the anticipated sewer trunk line locations along with the Lehi City sewer master planned lines that cross the subject property comparing the required size for the project improvements vs. the sewer size requirements for the Lehi City sewer master plan. The calculated sewer flows based on the anticipated project improvements for each land use pod are shown on page SS03. These flows were modeled to determine the sewer pipe sizing required for the sewer trunk line for project plan improvements in order to service every land use pod. The sewer capacity calculations to determine the required pipe sizes for the sewer trunk lines of the project improvements are shown on pages SS04 and SS05.

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Notes:

1. See Sheet SS03 for Sewer Flow Calculations for the project improvements.
2. See Sheet SS04 & SS05 for Sewer Capacity Calculations for the project improvements.

SEWER PIPE CAPACITY TABLE DISCHARGE TO 3600 WEST

Pipe Name	Size (Inches)	Slope (%)	PIPE CAPACITY (CFS)	PEAK FLOW (CFS)
SS 1-3	10	1.50%	2.69	2.300
SS 2-6	8	2.00%	1.71	0.100
SS 3-4 (a)	10	1.50%	2.69	3.200
SS 3-4 (b)	10	2.00%	3.11	3.200
SS 4-5	10	2.00%	3.11	3.600
SS 5-7	10	1.80%	2.95	3.700
SS 6-11	8	1.30%	1.38	0.700
SS 7-9	15	0.50%	4.58	4.400
SS 8-10	8	1.00%	1.21	0.300
SS 10-12	8	0.70%	1.01	0.300
SS 11-12 (a)	8	0.80%	1.08	1.200
SS 11-12 (b)	10	0.40%	1.39	1.200
SS 12-B	10	1.00%	2.20	1.700
SS 13-3600 W	15	0.75%	5.61	6.400
SS A-B	15	0.50%	4.58	4.600
SS B-13	15	0.75%	5.61	6.300

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SEWER PIPE CAPACITY TABLE DISCHARGE TO 3230 WEST

Pipe Name	Size (Inches)	Slope (%)	PIPE CAPACITY (CFS)	PEAK FLOW (CFS)
SS 14-18	8	0.40%	0.77	0.200
SS 15-14	8	0.40%	0.77	0.100
SS 16A-18	8	0.40%	0.77	0.800
SS 16B-16A	8	0.40%	0.77	0.600
SS 16C-16B	8	0.40%	0.77	0.300
SS 17-19	12	0.40%	2.26	1.900
SS 18-17	10	0.40%	1.39	1.200
SS 19-END	12	0.40%	2.26	2.100

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