

Storm Sewer Calculations for

Lov-It Brands Campus Bristol, WI

Project No. 3230212

July 26th, 2024

PREPARED BY:

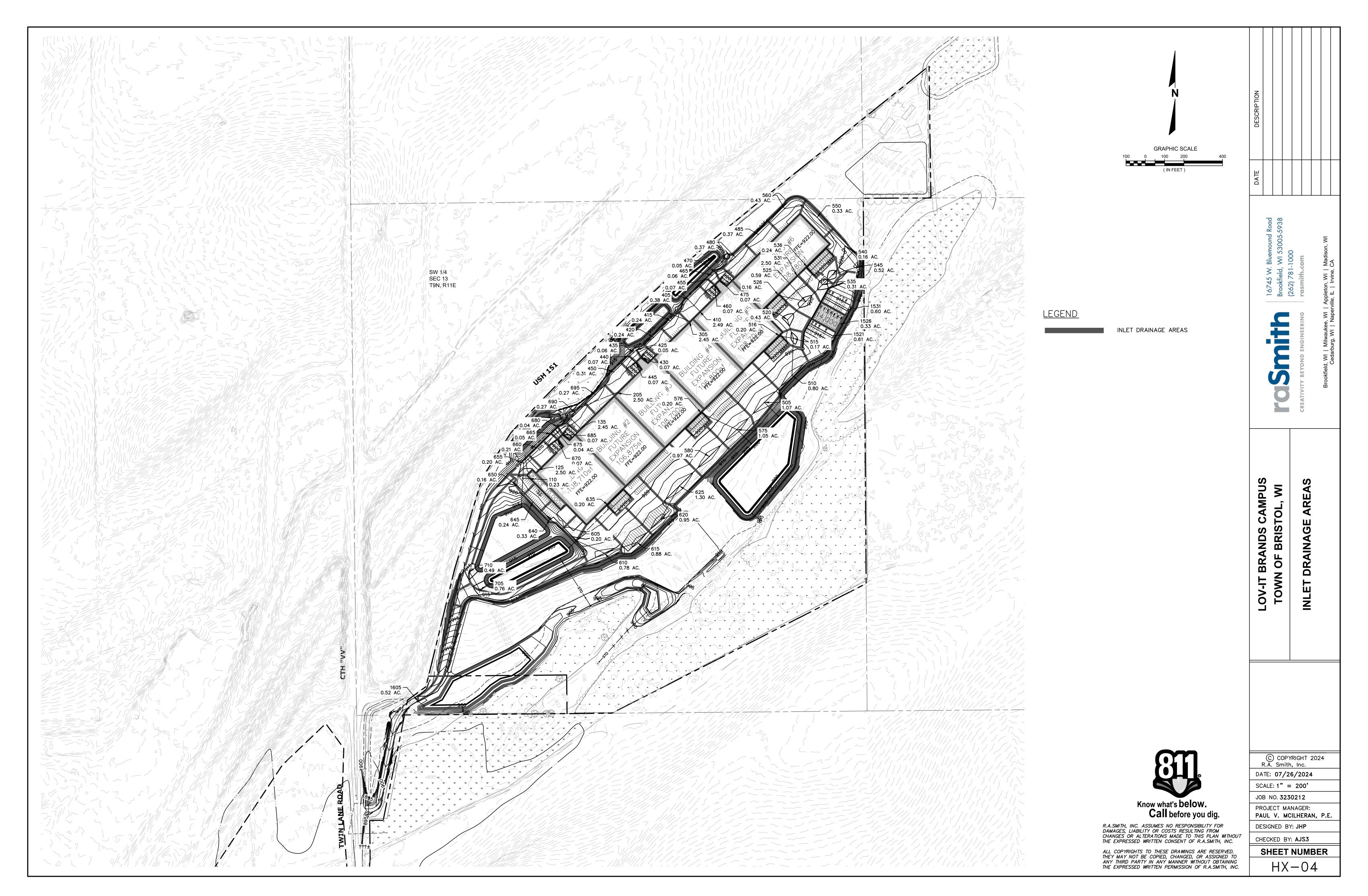
raSmith 16745 W. Bluemound Road Brookfield, WI 53005 PH: 262-781-1000

BASIS OF DESIGN

The proposed storm sewer is for the development of a proposed Lov-It Brand campus in the Town of Bristol, WI. The system is designed to convey drainage from the finished surface and buildings through pipes to the proposed wet ponds and infiltration basins. All storm sewer on site is private and subject to the Town of Bristol approval.

The storm sewer is designed to convey the 10-year storm within the pipe using a gravity design with the HGL elevation within the pipe. Design charts have been provided for the 10-year storm design. The 100-yr storm will not surcharge system rims, but in the event of fully clogged inlets, stormwater will follow a designed overland flow path.

The storm sewer network (1500) at the proposed shop is designed to convey the 200-yr storm without surcharging system rims.



\3230212\Dwg\Exhibits\3230212-HX04.dwg, INLET DRAINAGE AREAS, 7/24/2024

tatio	n	Len	Drng A	rea	Rnoff	Area x	C	Тс			Total		Vel	Pipe		Invert El	ev	HGL Ele	v	Grnd / Ri	m Elev	Line ID
ine	To		Incr	Total	coeff	Incr	Total	Inlet	Syst	 (1)	flow	full		Size	Slope	Dn	Up	Dn	Up	Dn	Up	
	Line	(ft)	(ac)	(ac)	(C)			(min)	(min)	(in/hr)	(cfs)	(cfs)	(ft/s)	(in)	(%)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	
4		1.1.1.505	0.00	5.40	0.00	0.00	4.00				07.00	40.04	5 70		0.40	040.00	040.50	040.44	040.40	040.00	004.00	105 100
1		144.588		5.18	0.00	0.00	4.92	6.0	8.4	5.7	27.92	42.24	5.70	36	0.40	910.00	910.58	912.14	912.40	913.08	921.29	105-100
		78.108		4.95	0.00	0.00	4.70	6.0	8.0	5.8	27.16		4.67	36	0.40	910.58	910.89	913.00	913.09	921.29	920.61	115-105
3		30.215 306.437		4.95 2.45	0.00	0.00	4.70	6.0	7.9 6.2	5.8	27.35	42.03	4.46	36	0.40	910.89	911.01	913.37	913.40	920.61	920.74	120-115
4 5		62.741			0.00	0.00	2.33	6.0	6.0	6.4	14.92		4.18	30	0.40	911.51	912.73	913.72 914.57	914.17 914.76	920.74 920.68	920.68	130-120 135-130
5		74.765		2.45	0.95	2.38	2.33	6.0	6.0	6.5	15.13 15.43	22.65	5.72	24	1.00	912.73	913.36	913.72	914.76	920.88	921.74	125-120
7		31.335		0.23	0.95	0.22	0.22	6.0	6.0	6.5	1.42	2.29	3.08	12	0.41	912.58	912.76	913.72	913.28	920.74	921.86	110-105

Project File: STO 100S.stm Number of lines: 7 Run Date: 7/24/2024

Statio	n	Len	Drng A	rea	Rnoff	Area x	C	Тс			Total		Vel	Pipe		Invert El	ev	HGL Ele	v	Grnd / Ri	im Elev	Line ID
ine	To		Incr	Total	coeff	Incr	Total	Inlet	Syst	- (I) 	flow	full		Size	Slope	Dn	Up	Dn	Up	Dn	Up	
	Line	(ft)	(ac)	(ac)	(C)			(min)	(min)	(in/hr)	(cfs)	(cfs)	(ft/s)	(in)	(%)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	
1		144.588		5.18	0.00	0.00	4.92	6.0	7.6	8.7	42.97	42.24	7.36	36	0.40	910.00	910.58	912.14	913.11	913.08	921.29	105-100
2		78.108		4.95	0.00	0.00	4.70	6.0	7.4	8.9	41.62	42.02	5.89	36	0.40	910.58	910.89	913.82	914.12	921.29	920.61	115-105
3		30.215		4.95	0.00	0.00	4.70	6.0	7.3	8.9	41.84	42.03	5.92	36	0.40	910.89	911.01	914.53	914.65	920.61	920.74	120-115
1 -		306.437		2.45	0.00	0.00	2.33	6.0	6.1	9.6	22.25		4.53	30	0.40	911.51	912.73	915.19	916.09	920.74	920.68	130-120
5		62.741		2.45	0.95	2.33	2.33	6.0	6.0	9.7	22.47	22.66	7.15	24	1.00	912.73	913.36	916.41	917.03	920.68	921.74	135-130
6 7		74.765 31.335		2.50 0.23	0.95 0.95	2.38 0.22	2.38 0.22	6.0	6.0	9.7	22.93	22.65	7.30	12	0.41	912.01	912.76 912.71	915.19	915.96	920.74 921.29	921.93 921.86	125-120 110-105
•	'	01.000	0.20	0.23	0.55	0.22	0.22	0.0	0.0	3.7	2.11	2.23	2.00	12	0.41	312.30	312.71	310.02	313.33	321.23	321.00	110 100

Number of lines: 7

NOTES:Intensity = 34.74 / (Inlet time + 2.70) ^ 0.59; Return period =Yrs. 100; c = cir e = ellip b = box

Project File: STO 100S.stm

tatio	n	Len	Drng A	Area	Rnoff	Area x	C	Тс		Rain	Total	Сар	Vel	Pipe		Invert Ele	ev	HGL Ele	v	Grnd / Ri	im Elev	Line ID
ne	То		Incr	Total	coeff	Incr	Total	Inlet	Syst	(I)	flow	fuli		Size	Slope	Dn	Up	Dn	Up	Dn	Up	-
	Line	(ft)	(ac)	(ac)	(C)			(min)	(min)	(in/hr)	(cfs)	(cfs)	(ft/s)	(in)	(%)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	
	End	341.720	2.50	2.50	0.95	2.38	2.38	6.0	6.0	6.5	15.43	22.63	6.02	24	1.00	911.00	914.42	912.66	915.84	912.80	921.93	205-200
roie	ct File	STO 20)0S stm													Number	r of lines: 1	1		Run Da	te: 7/24/2	024

(ft) 341.720	Incr (ac)	Total (ac) 2.50	(C) 0.95	2.38			Syst (min) 6.0	9.7			(ft/s) 8.13		Slope (%) 1.00	Dn (ft) 911.00		Dn (ft) 912.66	Up (ft) 916.12	Dn (ft) 912.80	Up (ft) 921.93	205-200
				2.38																205-200
341.720	2.50	2.50	0.95	2.38	2.38	6.0	6.0	9.7	22.93	22.63	8.13	24	1.00	911.00	914.42	912.66	916.12	912.80	921.93	205-200

tatio	n	Len	Drng A	Area	Rnoff	Area x	C	Тс		Rain	Total	Сар	Vel	Pipe		Invert El	ev	HGL Ele	v	Grnd / Ri	m Elev	Line ID
ne	То		Incr	Total	coeff	Incr	Total	Inlet	Syst	-(I) -	flow	fuli		Size	Slope	Dn	Up	Dn	Up	Dn	Up	
	Line	(ft)	(ac)	(ac)	(C)			(min)	(min)	(in/hr)	(cfs)	(cfs)	(ft/s)	(in)	(%)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	
	End	104.584	2.46	2.46	0.95	2.34	2.34	6.0	6.0	6.5	15.19	18.90	5.91	24	0.70	916.27	917.00	917.96	918.40	918.33	921.93	305-300
		STO 30																				

tatio	n	Len	Drng A	Area	Rnoff	Area x	С	Тс		Rain	Total	Сар	Vel	Pipe		Invert El	ev	HGL Ele	v	Grnd / Ri	m Elev	Line ID
ne	То		Incr	Total	coeff	Incr	Total	Inlet	Syst	 (1)	flow	fuli		Size	Slope	Dn	Up	Dn	Up	Dn	Up	
	Line	(ft)	(ac)	(ac)	(C)			(min)	(min)	(in/hr)	(cfs)	(cfs)	(ft/s)	(in)	(%)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	
	End	104.584	2.46	2.46	0.95	2.34	2.34	6.0	6.0	9.7	22.56	18.90	7.57	24	0.70	916.27	917.00	917.96	919.16	918.33	921.93	305-300
		STO 30														Numbe					te: 7/24/20	

Statio	n	Len	Drng A	rea	Rnoff	Area x	С	Тс		Rain	Total		Vel	Pipe		Invert Ele	ev	HGL Ele	v	Grnd / Ri	m Elev	Line ID
Line	То		Incr	Total	coeff	Incr	Total	Inlet	Syst	· (I)	flow	full		Size	Slope	Dn	Up	Dn	Up	Dn	Up	
	Line	(ft)	(ac)	(ac)	(C)			(min)	(min)	(in/hr)	(cfs)	(cfs)	(ft/s)	(in)	(%)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	
1	End	35.661	0.38	5.05	0.95	0.36	4.80	6.0	10.4	5.1	24.68	51.18	5.74	36	0.59	913.00	913.21	914.96	914.81	916.08	920.00	405-400
2	1	143.606	0.24	1.11	0.95	0.23	1.05	6.0	9.2	5.4	5.75	17.50	3.34	24	0.60	913.21	914.07	914.81	914.92	920.00	920.34	415-405
3	2	122.760	0.24	0.87	0.95	0.23	0.83	6.0	8.5	5.7	4.67	8.15	4.60	18	0.60	914.07	914.81	914.92	915.64	920.34	920.34	420-415
4	3	109.604	0.05	0.63	0.95	0.05	0.60	6.0	7.6	5.9	3.54	8.15	3.89	18	0.60	914.81	915.47	915.64	916.19	920.34	920.38	425-420
5	4	19.194	0.06	0.51	0.95	0.06	0.48	6.0	7.5	6.0	2.89	4.89	4.08	15	0.57	915.47	915.58	916.19	916.27	920.38	920.21	435-425
6	5	30.683	0.07	0.45	0.95	0.07	0.43	6.0	7.2	6.0	2.58	4.95	3.54	15	0.59	915.58	915.76	916.40	916.40	920.21	920.36	440-435
7	6	114.109	0.31	0.31	0.95	0.29	0.29	6.0	6.0	6.5	1.91	4.98	3.34	15	0.60	915.76	916.44	916.40	916.99	920.36	920.00	450-440
8	6	49.824	0.07	0.07	0.95	0.07	0.07	6.0	6.0	6.5	0.43	0.84	1.47	8	0.48	915.76	916.00	916.40	916.46	920.36	918.23	445-440
9	4	49.394	0.07	0.07	0.95	0.07	0.07	6.0	6.0	6.5	0.43	2.73	1.61	12	0.59	915.47	915.76	916.19	916.03	920.38	918.23	430-425
10	1	146.247	0.07	1.06	0.95	0.07	1.01	6.0	8.2	5.7	5.78	17.34	3.35	24	0.59	913.21	914.07	914.81	914.92	920.00	920.36	455-405
11	10	49.824	0.07	0.07	0.95	0.07	0.07	6.0	6.0	6.5	0.43	1.33	3.08	8	1.20	915.40	916.00	915.66	916.31	920.36	918.23	460-455
12	10	30.683	0.06	0.92	0.95	0.06	0.87	6.0	8.0	5.8	5.07	8.04	4.80	18	0.59	914.07	914.25	914.93	915.12	920.36	920.21	465-455
13	12	24.109	0.05	0.86	0.95	0.05	0.82	6.0	7.8	5.8	4.77	8.00	4.61	18	0.58	914.25	914.39	915.12	915.23	920.21	920.42	470-465
14	13	127.268	0.37	0.74	0.95	0.35	0.70	6.0	7.0	6.1	4.31	8.06	4.39	18	0.59	914.39	915.14	915.23	915.94	920.42	920.17	480-470
15	14	168.380	0.37	0.37	0.95	0.35	0.35	6.0	6.0	6.5	2.28	2.73	3.77	12	0.59	915.14	916.13	915.94	916.79	920.17	920.17	485-480
16	13	49.127	0.07	0.07	0.95	0.07	0.07	6.0	6.0	6.5	0.43	1.52	3.26	8	1.59	915.22	916.00	915.46	916.31	920.42	918.23	475-470
17	1	86.500	2.50	2.50	0.95	2.38	2.38	6.0	6.0	6.5	15.43	22.68	7.13	24	1.01	914.21	915.08	915.42	916.50	920.00	921.89	410-405

Number of lines: 17

NOTES:Intensity = 30.30 / (Inlet time + 4.40) ^ 0.66; Return period =Yrs. 10; c = cir e = ellip b = box

Project File: STO 400S.stm

Statio	n	Len	Drng A	rea	Rnoff	Area x	С	Тс		Rain	Total		Vel	Pipe		Invert Ele	ev	HGL Ele	v	Grnd / Ri	m Elev	Line ID
Line	То		Incr	Total	coeff	Incr	Total	Inlet	Syst	(1)	flow	full		Size	Slope	Dn	Up	Dn	Up	Dn	Up	
	Line	(ft)	(ac)	(ac)	(C)			(min)	(min)	(in/hr)	(cfs)	(cfs)	(ft/s)	(in)	(%)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	
1	End	35.661	0.38	5.05	0.95	0.36	4.80	6.0	9.0	8.1	38.86	51.18	7.81	36	0.59	913.00	913.21	914.96	915.24	916.08	920.00	405-400
2	1	143.606	0.24	1.11	0.95	0.23	1.05	6.0	8.2	8.5	8.93	17.50	3.42	24	0.60	913.21	914.07	915.24	915.41	920.00	920.34	415-405
3	2	122.760	0.24	0.87	0.95	0.23	0.83	6.0	7.7	8.7	7.20	8.15	4.44	18	0.60	914.07	914.81	915.53	916.00	920.34	920.34	420-415
4	3	109.604	0.05	0.63	0.95	0.05	0.60	6.0	7.1	9.0	5.40	8.15	4.05	18	0.60	914.81	915.47	916.18	916.36	920.34	920.38	425-420
5	4	19.194	0.06	0.51	0.95	0.06	0.48	6.0	7.0	9.1	4.39	4.89	4.51	15	0.57	915.47	915.58	916.40	916.50	920.38	920.21	435-425
6	5	30.683	0.07	0.45	0.95	0.07	0.43	6.0	6.8	9.2	3.91	4.95	3.63	15	0.59	915.58	915.76	916.66	916.74	920.21	920.36	440-435
7	6	114.109	0.31	0.31	0.95	0.29	0.29	6.0	6.0	9.7	2.84	4.98	3.05	15	0.60	915.76	916.44	916.96	917.18	920.36	920.00	450-440
8	6	49.824	0.07	0.07	0.95	0.07	0.07	6.0	6.0	9.7	0.64	0.84	1.84	8	0.48	915.76	916.00	916.96	917.10	920.36	918.23	445-440
9	4	49.394	0.07	0.07	0.95	0.07	0.07	6.0	6.0	9.7	0.64	2.73	1.83	12	0.59	915.47	915.76	916.36	916.09	920.38	918.23	430-425
10	1	146.247	0.07	1.06	0.95	0.07	1.01	6.0	7.5	8.8	8.87	17.34	3.39	24	0.59	913.21	914.07	915.24	915.41	920.00	920.36	455-405
11	10	49.824	0.07	0.07	0.95	0.07	0.07	6.0	6.0	9.7	0.64	1.33	3.46	8	1.20	915.40	916.00	915.73	916.38	920.36	918.23	460-455
12	10	30.683	0.06	0.92	0.95	0.06	0.87	6.0	7.3	8.9	7.75	8.04	4.39	18	0.59	914.07	914.25	915.65	915.82	920.36	920.21	465-455
13	12	24.109	0.05	0.86	0.95	0.05	0.82	6.0	7.2	8.9	7.29	8.00	4.13	18	0.58	914.25	914.39	915.97	916.09	920.21	920.42	470-465
14	13	127.268	0.37	0.74	0.95	0.35	0.70	6.0	6.6	9.3	6.50	8.06	3.68	18	0.59	914.39	915.14	916.35	916.84	920.42	920.17	480-470
15	14	168.380	0.37	0.37	0.95	0.35	0.35	6.0	6.0	9.7	3.39	2.73	4.32	12	0.59	915.14	916.13	916.95	918.48	920.17	920.17	485-480
16	13	49.127	0.07	0.07	0.95	0.07	0.07	6.0	6.0	9.7	0.64	1.52	2.12	8	1.59	915.22	916.00	916.35	916.48	920.42	918.23	475-470
17	1	86.500	2.50	2.50	0.95	2.38	2.38	6.0	6.0	9.7	22.93	22.68	8.14	24	1.01	914.21	915.08	915.87	916.78	920.00	921.89	410-405

Number of lines: 17

NOTES:Intensity = 34.74 / (Inlet time + 2.70) ^ 0.59; Return period =Yrs. 100; c = cir e = ellip b = box

Storm Sewers v2024.00

Run Date: 7/24/2024

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Statio	n	Len	Drng A	\rea	Rnoff	Area x	(C	Тс		Rain	Total	Сар	Vel	Pipe		Invert El	ev	HGL Ele	v	Grnd / Ri	im Elev	Line ID
_ine	То		Incr	Total	coeff	Incr	Total	Inlet	Syst	(1)	flow	full		Size	Slope	Dn	Up	Dn	Up	Dn	Up	-
	Line	(ft)	(ac)	(ac)	(C)			(min)	(min)	(in/hr)	(cfs)	(cfs)	(ft/s)	(in)	(%)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	
1	End	96.683	1 07	7.91	0.95	1.02	7.51	6.0	15.2	4.3	32.15	93.54	5.10	48	0.42	905.00	905.41	907.56	907.09	909.12	917.38	505-500
2		200.000		6.84	0.95	0.76	6.50	6.0	13.8	4.5	29.18	93.10	6.02	48	0.42	905.41	906.25	907.09	907.85	917.38	917.38	510-505
- 3		192.844		6.04	0.95	0.16	5.74	6.0	12.7	4.7	26.87	65.20	6.37	42	0.42	906.75	907.56	908.32	909.16	917.38	919.50	515-510
4		100.000		5.67	0.95	0.41	5.39	6.0	12.1	4.8	25.82	65.20	6.13	42	0.42	907.56	907.98	909.16	909.54	919.50	919.50	520-515
5	4	134.396	0.59	5.24	0.95	0.56	4.98	6.0	11.3	5.0	24.71	47.54	4.99	42	0.22	907.98	908.28	909.77	910.07	919.50	919.50	525-520
6	5	61.334	0.00	4.49	0.00	0.00	4.27	6.0	11.0	5.0	21.38	30.54	6.66	30	0.55	909.55	909.89	911.09	911.46	919.50	920.18	530-525
7	6	124.240	2.50	2.50	0.95	2.38	2.38	6.0	6.0	6.5	15.43	22.60	7.12	24	1.00	915.76	917.00	916.97	918.42	920.18	922.00	531-530
8	6	61.334	0.31	1.99	0.95	0.29	1.89	6.0	10.7	5.1	9.61	14.73	5.00	24	0.42	910.39	910.65	911.57	911.83	920.18	919.50	535-530
9	8	73.891	0.16	1.44	0.95	0.15	1.37	6.0	10.2	5.2	7.12	17.45	3.65	24	0.60	910.65	911.09	912.41	912.04	919.50	919.50	540-535
10	9	132.402	0.52	1.28	0.95	0.49	1.22	6.0	9.2	5.5	6.64	17.47	4.65	24	0.60	911.09	911.88	912.04	912.79	919.50	918.75	545-540
11	10	330.205	0.33	0.76	0.95	0.31	0.72	6.0	6.9	6.1	4.43	8.11	4.63	18	0.60	912.38	914.35	913.17	915.16	918.75	920.15	550-545
12	11	102.180	0.00	0.43	0.00	0.00	0.41	6.0	6.4	6.3	2.59	2.75	3.98	12	0.60	914.85	915.46	915.62	916.23	920.15	921.10	555-550
13	12	87.147	0.43	0.43	0.95	0.41	0.41	6.0	6.0	6.5	2.65	2.75	3.59	12	0.60	915.46	915.98	916.42	916.82	921.10	920.00	560-555
14	3	70.195	0.20	0.20	0.95	0.19	0.19	6.0	6.0	6.5	1.23	1.21	3.93	8	1.00	915.30	916.00	915.86	916.56	919.50	918.15	516-515
15	8	119.367	0.24	0.24	0.95	0.23	0.23	6.0	6.0	6.5	1.48	2.20	4.12	10	1.01	914.76	915.96	915.26	916.50	919.50	918.15	536-535
16	5	143.435	0.16	0.16	0.95	0.15	0.15	6.0	6.0	6.5	0.99	1.21	3.81	8	1.00	914.56	916.00	915.02	916.47	919.50	918.15	526-525

Number of lines: 16

Project File: STO 500S.stm NOTES:Intensity = 30.30 / (Inlet time + 4.40) ^ 0.66; Return period =Yrs. 10; c = cir e = ellip b = box

			rea	Rnoff	Area x	C	Тс		Rain	Total		Vel	Pipe		Invert Ele	ev	HGL Ele	V	Grnd / Ri	m Elev	Line ID
To		Incr	Total	coeff	Incr	Total	Inlet	Syst	(I) 	flow	full		Size	Slope	Dn	Up	Dn	Up	Dn	Up	•
	(ft)	(ac)	(ac)	(C)			(min)	(min)	(in/hr)	(cfs)	(cfs)	(ft/s)	(in)	(%)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	
End	96.683	1.07	7.91	0.95	1.02	7.51	6.0	12.3	7.0	52.62	93.54	6.86	48	0.42	905.00	905.41	907.56	907.59	909.12	917.38	505-500
1	200.000	0.80	6.84	0.95	0.76	6.50	6.0	11.3	7.3	47.30	93.10	7.01	48	0.42	905.41	906.25	907.59	908.31	917.38	917.38	510-505
2	192.844	0.17	6.04	0.95	0.16	5.74	6.0	10.6	7.5	43.18	65.20	7.24	42	0.42	906.75	907.56	908.83	909.64	917.38	919.50	515-510
3	100.000	0.43	5.67	0.95	0.41	5.39	6.0	10.1	7.7	41.29	65.20	4.56	42	0.42	907.56	907.98	910.86	910.96	919.50	919.50	520-515
4	134.396	0.59	5.24	0.95	0.56	4.98	6.0	9.6	7.9	39.22	47.54	4.12	42	0.22	907.98	908.28	911.44	911.61	919.50	919.50	525-520
5	61.334	0.00	4.49	0.00	0.00	4.27	6.0	9.4	7.9	33.86	30.54	6.90	30	0.55	909.55	909.89	912.05	912.47	919.50	920.18	530-525
6	124.240	2.50	2.50	0.95	2.38	2.38	6.0	6.0	9.7	22.93	22.60	8.12	24	1.00	915.76	917.00	917.43	918.70	920.18	922.00	531-530
6	61.334	0.31	1.99	0.95	0.29	1.89	6.0	9.2	8.0	15.17	14.73	4.83	24	0.42	910.39	910.65	913.21	913.48	920.18	919.50	535-530
8	73.891	0.16	1.44	0.95	0.15	1.37	6.0	8.8	8.2	11.18	17.45	3.56	24	0.60	910.65	911.09	914.03	914.21	919.50	919.50	540-535
9	132.402	0.52	1.28	0.95	0.49	1.22	6.0	8.1	8.5	10.31	17.47	3.28	24	0.60	911.09	911.88	914.36	914.64	919.50	918.75	545-540
10	330.205	0.33	0.76	0.95	0.31	0.72	6.0	6.6	9.3	6.68	8.11	3.78	18	0.60	912.38	914.35	914.89	916.23	918.75	920.15	550-545
11	102.180	0.00	0.43	0.00	0.00	0.41	6.0	6.3	9.5	3.87	2.75	4.93	12	0.60	914.85	915.46	916.34	917.54	920.15	921.10	555-550
12	87.147	0.43	0.43	0.95	0.41	0.41	6.0	6.0	9.7	3.94	2.75	5.02	12	0.60	915.46	915.98	917.83	918.90	921.10	920.00	560-555
3	70.195	0.20	0.20	0.95	0.19	0.19	6.0	6.0	9.7	1.83	1.21	5.26	8	1.00	915.30	916.00	915.97	917.59	919.50	918.15	516-515
8	119.367	0.24	0.24	0.95	0.23	0.23	6.0	6.0	9.7	2.20	2.20	4.59	10	1.01	914.76	915.96	915.45	916.64	919.50	918.15	536-535
5	143.435	0.16	0.16	0.95	0.15	0.15	6.0	6.0	9.7	1.47	1.21	4.20	8	1.00	914.56	916.00	915.23	917.35	919.50	918.15	526-525
	End 1 2 3 4 5 6 8 9 10 11 12 3 8	End 96.683 1 200.000 2 192.844 3 100.000 4 134.396 5 61.334 6 124.240 6 61.334 8 73.891 9 132.402 10 330.205 11 102.180 12 87.147 3 70.195 8 119.367	Line (ft) (ac) End 96.683 1.07 1 200.000 0.80 2 192.844 0.17 3 100.000 0.43 4 134.396 0.59 5 61.334 0.00 6 124.240 2.50 6 61.334 0.31 8 73.891 0.16 9 132.402 0.52 10 330.205 0.33 11 102.180 0.00 12 87.147 0.43 3 70.195 0.20 8 119.367 0.24	Line (ft) (ac) (ac) End 96.683 1.07 7.91 1 200.000 0.80 6.84 2 192.844 0.17 6.04 3 100.000 0.43 5.67 4 134.396 0.59 5.24 5 61.334 0.00 4.49 6 124.240 2.50 2.50 6 61.334 0.31 1.99 8 73.891 0.16 1.44 9 132.402 0.52 1.28 10 330.205 0.33 0.76 11 102.180 0.00 0.43 12 87.147 0.43 0.43 3 70.195 0.20 0.20 8 119.367 0.24 0.24	Line (ft) (ac) (ac) (C) End 96.683 1.07 7.91 0.95 1 200.000 0.80 6.84 0.95 2 192.844 0.17 6.04 0.95 3 100.000 0.43 5.67 0.95 4 134.396 0.59 5.24 0.95 5 61.334 0.00 4.49 0.00 6 124.240 2.50 2.50 0.95 8 73.891 0.16 1.44 0.95 9 132.402 0.52 1.28 0.95 10 330.205 0.33 0.76 0.95 11 102.180 0.00 0.43 0.00 12 87.147 0.43 0.43 0.95 8 119.367 0.24 0.24 0.95	Line (ft) (ac) (ac) (C) End 96.683 1.07 7.91 0.95 1.02 1 200.000 0.80 6.84 0.95 0.76 2 192.844 0.17 6.04 0.95 0.16 3 100.000 0.43 5.67 0.95 0.41 4 134.396 0.59 5.24 0.95 0.56 5 61.334 0.00 4.49 0.00 0.00 6 124.240 2.50 2.50 0.95 2.38 6 61.334 0.31 1.99 0.95 0.29 8 73.891 0.16 1.44 0.95 0.15 9 132.402 0.52 1.28 0.95 0.31 10 330.205 0.33 0.76 0.95 0.31 11 102.180 0.00 0.43 0.00 0.00 12 87.147 0.43 0.43	Line (ft) (ac) (ac) (C) C End 96.683 1.07 7.91 0.95 1.02 7.51 1 200.000 0.80 6.84 0.95 0.76 6.50 2 192.844 0.17 6.04 0.95 0.16 5.74 3 100.000 0.43 5.67 0.95 0.41 5.39 4 134.396 0.59 5.24 0.95 0.56 4.98 5 61.334 0.00 4.49 0.00 0.00 4.27 6 124.240 2.50 2.50 0.95 2.38 2.38 6 61.334 0.31 1.99 0.95 0.29 1.89 8 73.891 0.16 1.44 0.95 0.15 1.37 9 132.402 0.52 1.28 0.95 0.49 1.22 10 330.205 0.33 0.76 0.95 0.31 0.72 <	Line (ft) (ac) (c) (c) (min) End 96.683 1.07 7.91 0.95 1.02 7.51 6.0 1 200.000 0.80 6.84 0.95 0.76 6.50 6.0 2 192.844 0.17 6.04 0.95 0.16 5.74 6.0 3 100.000 0.43 5.67 0.95 0.41 5.39 6.0 4 134.396 0.59 5.24 0.95 0.56 4.98 6.0 5 61.334 0.00 4.49 0.00 0.00 4.27 6.0 6 124.240 2.50 2.50 0.95 0.29 1.89 6.0 8 73.891 0.16 1.44 0.95 0.15 1.37 6.0 9 132.402 0.52 1.28 0.95 0.49 1.22 6.0 10 330.205 0.33 0.76 0.95 0.31	Line (ft) (ac) (ac) (C) (min) (min) End 96.683 1.07 7.91 0.95 1.02 7.51 6.0 12.3 1 200.000 0.80 6.84 0.95 0.76 6.50 6.0 11.3 2 192.844 0.17 6.04 0.95 0.16 5.74 6.0 10.6 3 100.000 0.43 5.67 0.95 0.41 5.39 6.0 10.1 4 134.396 0.59 5.24 0.95 0.56 4.98 6.0 9.6 5 61.334 0.00 4.49 0.00 0.00 4.27 6.0 9.4 6 124.240 2.50 2.50 0.95 2.38 2.38 6.0 6.0 8 73.891 0.16 1.44 0.95 0.15 1.37 6.0 8.8 9 132.402 0.52 1.28 0.95 0.49	Line (ft) (ac) (ac) (C) (min) (min) (in/hr) End 96.683 1.07 7.91 0.95 1.02 7.51 6.0 12.3 7.0 1 200.000 0.80 6.84 0.95 0.76 6.50 6.0 11.3 7.3 2 192.844 0.17 6.04 0.95 0.16 5.74 6.0 10.6 7.5 3 100.000 0.43 5.67 0.95 0.41 5.39 6.0 10.1 7.7 4 134.396 0.59 5.24 0.95 0.56 4.98 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124.240 <t< td=""><td>Line (ft) (ac) (ac) (C) (min) (min) (in/hr) (cfs) (ft/s) End 96.683 1.07 7.91 0.95 1.02 7.51 6.0 12.3 7.0 52.62 93.54 6.86 1 200.000 0.80 6.84 0.95 0.76 6.50 6.0 11.3 7.3 47.30 93.10 7.01 2 192.844 0.17 6.04 0.95 0.16 5.74 6.0 10.6 7.5 43.18 65.20 7.24 3 100.000 0.43 5.67 0.95 0.56 4.98 6.0 10.1 7.7 41.29 65.20 4.56 4 134.396 0.59 5.24 0.95 0.56 4.98 6.0 9.6 7.9 39.22 47.54 4.12 5 61.334 0.00 4.49 0.00 0.00 4.27 6.0 9.4 7.9 33.86 30.54</td><td>Line (ft) (ac) (ac) (C) (C) (min) (min) (in/hr) (cfs) (cfs) (ft/s) (in) End 96.683 1.07 7.91 0.95 1.02 7.51 6.0 12.3 7.0 52.62 93.54 6.86 48 1 200.000 0.80 6.84 0.95 0.76 6.50 6.0 11.3 7.3 47.30 93.10 7.01 48 2 192.844 0.17 6.04 0.95 0.16 5.74 6.0 10.6 7.5 43.18 65.20 7.24 42 3 100.000 0.43 5.67 0.95 0.41 5.39 6.0 10.1 7.7 41.29 65.20 4.56 42 4 134.396 0.59 5.24 0.95 0.56 4.98 6.0 9.6 7.9 39.22 47.54 4.12 42 5 61.334 0.00 4.49 0.00 0.00 4.27 6.0 9.4 7.9 33.86 30.54 6.90 30 6 124.240 2.50 2.50 0.95 2.38 2.38 6.0 6.0 9.7 22.93 22.60 8.12 24 6 61.334 0.31 1.99 0.95 0.29 1.89 6.0 9.2 8.0 15.17 14.73 4.83 24 8 73.891 0.16 1.44 0.95 0.15 1.37 6.0 8.8 8.2 11.18 17.45 3.56 24 10 330.205 0.33 0.76 0.95 0.49 1.22 6.0 8.1 8.5 10.31 17.47 3.28 24 10 330.205 0.33 0.76 0.95 0.31 0.72 6.0 6.6 9.3 6.68 8.11 3.78 18 11 102.180 0.00 0.43 0.00 0.00 0.41 6.0 6.3 9.5 3.87 2.75 4.93 12 2 87.147 0.43 0.43 0.95 0.19 0.19 6.0 6.0 9.7 1.83 1.21 5.26 8 8 119.367 0.24 0.24 0.95 0.29 0.19 0.19 6.0 6.0 9.7 1.83 1.21 5.26 8</td><td>Line (ft) (ac) (ac) (C) (C) (min) (min) (in/hr) (cfs) (cfs) (ft/s) (in) (%) End 96.683 1.07 7.91 0.95 1.02 7.51 6.0 12.3 7.0 52.62 93.54 6.86 48 0.42 1 200.000 0.80 6.84 0.95 0.76 6.50 6.0 11.3 7.3 47.30 93.10 7.01 48 0.42 2 192.844 0.17 6.04 0.95 0.16 5.74 6.0 10.6 7.5 43.18 65.20 7.24 42 0.42 3 100.000 0.43 5.67 0.95 0.41 5.39 6.0 10.1 7.7 41.29 65.20 4.56 42 0.42 4 134.396 0.59 5.24 0.95 0.56 4.98 6.0 9.6 7.9 39.22 47.54 4.12 42 0.22 5 61.334 0.00 4.49 0.00 0.00 4.27 6.0 9.4 7.9 33.86 30.54 6.90 30 0.55 6 124.240 2.50 2.50 0.95 2.38 2.38 6.0 6.0 6.0 9.7 22.93 22.60 8.12 24 1.00 6 61.334 0.31 1.99 0.95 0.29 1.89 6.0 9.2 8.0 15.17 14.73 4.83 24 0.42 8 73.891 0.16 1.44 0.95 0.15 1.37 6.0 8.8 8.2 11.18 17.45 3.56 24 0.60 9 132.402 0.52 1.28 0.95 0.49 1.22 6.0 8.1 8.5 10.31 17.47 3.28 24 0.60 10 330.205 0.33 0.76 0.95 0.31 0.72 6.0 6.6 9.3 6.68 8.11 3.78 18 0.60 11 102.180 0.00 0.43 0.00 0.00 0.41 6.0 6.3 9.5 3.87 2.75 4.93 12 0.60 12 87.147 0.43 0.43 0.95 0.41 0.41 6.0 6.0 9.7 3.94 2.75 5.02 12 0.60 3 70.195 0.20 0.20 0.95 0.19 0.19 6.0 6.0 9.7 1.83 1.21 5.26 8 1.00 8 119.367 0.24 0.24 0.95 0.23 0.23 6.0 6.0 9.7 2.20 2.20 4.59 10 1.01</td><td>Line (ft) (ac) (ac) (C) (D) (min) (min) (in/hr) (cfs) (cfs) (ft/s) (in) (min) (ft) End 96.683 1.07 7.91 0.95 1.02 7.51 6.0 12.3 7.0 52.62 93.54 6.86 48 0.42 905.00 1 200.000 0.80 6.84 0.95 0.76 6.50 6.0 11.3 7.3 47.30 93.10 7.01 48 0.42 905.41 2 192.844 0.17 6.04 0.95 0.16 5.74 6.0 10.6 7.5 43.18 65.20 7.24 42 0.42 906.75 3 100.000 0.43 5.67 0.95 0.41 5.39 6.0 10.1 7.7 41.29 65.20 4.56 42 0.42 907.56 4 134.396 0.59 5.24 0.95 0.56 4.98 6.0 9.6 7.9 39.22 47.54 4.12 42 0.22 907.98 5 61.334 0.00 4.49 0.00 0.00 4.27 6.0 9.4 7.9 33.86 30.54 6.90 30 0.55 909.55 6 124.240 2.50 2.50 0.95 2.38 2.38 6.0 6.0 9.7 22.93 22.60 8.12 24 1.00 915.76 6 61.334 0.31 1.99 0.95 0.29 1.89 6.0 9.2 8.0 15.17 14.73 4.83 24 0.42 910.39 8 73.891 0.16 1.44 0.95 0.15 1.37 6.0 8.8 8.2 11.18 17.45 3.56 24 0.60 910.65 9 132.402 0.52 1.28 0.95 0.49 1.22 6.0 8.1 8.5 10.31 17.47 3.28 24 0.60 911.09 10 330.205 0.33 0.76 0.95 0.31 0.72 6.0 6.6 9.3 6.68 8.11 3.78 18 0.60 912.38 11 102.180 0.00 0.43 0.00 0.01 0.01 0.41 6.0 6.3 9.5 1.87 1.83 1.21 5.26 8 1.00 915.46 3 70.195 0.20 0.20 0.95 0.41 0.41 6.0 6.0 9.7 1.83 1.21 5.26 8 1.00 915.30 8 71.47 0.43 0.43 0.43 0.95 0.41 0.41 6.0 6.0 9.7 1.83 1.21 5.26 8 1.00 915.30 8 119.367 0.24 0.24 0.95 0.23 0.23 6.0 6.0 9.7 1.83 1.21 5.26 8 1.00 915.30</td><td>Line (ft) (ac) (ac) (C) Loc (min) (min) (in/hr) (cfs) (fts) (in) (%) (ft) (ft) (ft) End 96.683 1.07 7.91 0.95 1.02 7.51 6.0 12.3 7.0 52.62 93.54 6.86 48 0.42 905.00 905.41 1 200.000 0.80 6.84 0.95 0.76 6.50 6.0 11.3 7.3 47.30 93.10 7.01 48 0.42 905.01 906.75 907.56 3 100.000 0.43 5.67 0.95 0.41 5.39 6.0 10.1 7.7 41.29 65.20 4.56 42 0.42 906.75 907.96 4 134.396 0.59 5.24 0.95 0.56 4.98 6.0 9.6 7.9 39.22 47.54 4.12 42 0.42 907.96 907.98 5 61.334 0</td><td>Line (ft) (ac) (ac) (C) Los (min) (min) (in/hr) (cfs) (ft/s) (in) (%) (ft) (ft)</td><td>Line (ft) (ac) (ac) (C) C (min) (min) (in/lnt) (cfs) (cfs) (th) (th)</td><td>Line (tt) (ac) (c) (c) (min) (min) (min) (cfs) (ttys) (in) (%) (tt) (tt)</td><td>ine fft) ac) cc) C) cft) (min) (min) (min) (min) (cfs) (fts) (min) (min) (min) (cfs) (fts) (min) (min)</td></t<>	Line (ft) (ac) (ac) (C) (min) (min) (in/hr) (cfs) (ft/s) End 96.683 1.07 7.91 0.95 1.02 7.51 6.0 12.3 7.0 52.62 93.54 6.86 1 200.000 0.80 6.84 0.95 0.76 6.50 6.0 11.3 7.3 47.30 93.10 7.01 2 192.844 0.17 6.04 0.95 0.16 5.74 6.0 10.6 7.5 43.18 65.20 7.24 3 100.000 0.43 5.67 0.95 0.56 4.98 6.0 10.1 7.7 41.29 65.20 4.56 4 134.396 0.59 5.24 0.95 0.56 4.98 6.0 9.6 7.9 39.22 47.54 4.12 5 61.334 0.00 4.49 0.00 0.00 4.27 6.0 9.4 7.9 33.86 30.54	Line (ft) (ac) (ac) (C) (C) (min) (min) (in/hr) (cfs) (cfs) (ft/s) (in) End 96.683 1.07 7.91 0.95 1.02 7.51 6.0 12.3 7.0 52.62 93.54 6.86 48 1 200.000 0.80 6.84 0.95 0.76 6.50 6.0 11.3 7.3 47.30 93.10 7.01 48 2 192.844 0.17 6.04 0.95 0.16 5.74 6.0 10.6 7.5 43.18 65.20 7.24 42 3 100.000 0.43 5.67 0.95 0.41 5.39 6.0 10.1 7.7 41.29 65.20 4.56 42 4 134.396 0.59 5.24 0.95 0.56 4.98 6.0 9.6 7.9 39.22 47.54 4.12 42 5 61.334 0.00 4.49 0.00 0.00 4.27 6.0 9.4 7.9 33.86 30.54 6.90 30 6 124.240 2.50 2.50 0.95 2.38 2.38 6.0 6.0 9.7 22.93 22.60 8.12 24 6 61.334 0.31 1.99 0.95 0.29 1.89 6.0 9.2 8.0 15.17 14.73 4.83 24 8 73.891 0.16 1.44 0.95 0.15 1.37 6.0 8.8 8.2 11.18 17.45 3.56 24 10 330.205 0.33 0.76 0.95 0.49 1.22 6.0 8.1 8.5 10.31 17.47 3.28 24 10 330.205 0.33 0.76 0.95 0.31 0.72 6.0 6.6 9.3 6.68 8.11 3.78 18 11 102.180 0.00 0.43 0.00 0.00 0.41 6.0 6.3 9.5 3.87 2.75 4.93 12 2 87.147 0.43 0.43 0.95 0.19 0.19 6.0 6.0 9.7 1.83 1.21 5.26 8 8 119.367 0.24 0.24 0.95 0.29 0.19 0.19 6.0 6.0 9.7 1.83 1.21 5.26 8	Line (ft) (ac) (ac) (C) (C) (min) (min) (in/hr) (cfs) (cfs) (ft/s) (in) (%) End 96.683 1.07 7.91 0.95 1.02 7.51 6.0 12.3 7.0 52.62 93.54 6.86 48 0.42 1 200.000 0.80 6.84 0.95 0.76 6.50 6.0 11.3 7.3 47.30 93.10 7.01 48 0.42 2 192.844 0.17 6.04 0.95 0.16 5.74 6.0 10.6 7.5 43.18 65.20 7.24 42 0.42 3 100.000 0.43 5.67 0.95 0.41 5.39 6.0 10.1 7.7 41.29 65.20 4.56 42 0.42 4 134.396 0.59 5.24 0.95 0.56 4.98 6.0 9.6 7.9 39.22 47.54 4.12 42 0.22 5 61.334 0.00 4.49 0.00 0.00 4.27 6.0 9.4 7.9 33.86 30.54 6.90 30 0.55 6 124.240 2.50 2.50 0.95 2.38 2.38 6.0 6.0 6.0 9.7 22.93 22.60 8.12 24 1.00 6 61.334 0.31 1.99 0.95 0.29 1.89 6.0 9.2 8.0 15.17 14.73 4.83 24 0.42 8 73.891 0.16 1.44 0.95 0.15 1.37 6.0 8.8 8.2 11.18 17.45 3.56 24 0.60 9 132.402 0.52 1.28 0.95 0.49 1.22 6.0 8.1 8.5 10.31 17.47 3.28 24 0.60 10 330.205 0.33 0.76 0.95 0.31 0.72 6.0 6.6 9.3 6.68 8.11 3.78 18 0.60 11 102.180 0.00 0.43 0.00 0.00 0.41 6.0 6.3 9.5 3.87 2.75 4.93 12 0.60 12 87.147 0.43 0.43 0.95 0.41 0.41 6.0 6.0 9.7 3.94 2.75 5.02 12 0.60 3 70.195 0.20 0.20 0.95 0.19 0.19 6.0 6.0 9.7 1.83 1.21 5.26 8 1.00 8 119.367 0.24 0.24 0.95 0.23 0.23 6.0 6.0 9.7 2.20 2.20 4.59 10 1.01	Line (ft) (ac) (ac) (C) (D) (min) (min) (in/hr) (cfs) (cfs) (ft/s) (in) (min) (ft) End 96.683 1.07 7.91 0.95 1.02 7.51 6.0 12.3 7.0 52.62 93.54 6.86 48 0.42 905.00 1 200.000 0.80 6.84 0.95 0.76 6.50 6.0 11.3 7.3 47.30 93.10 7.01 48 0.42 905.41 2 192.844 0.17 6.04 0.95 0.16 5.74 6.0 10.6 7.5 43.18 65.20 7.24 42 0.42 906.75 3 100.000 0.43 5.67 0.95 0.41 5.39 6.0 10.1 7.7 41.29 65.20 4.56 42 0.42 907.56 4 134.396 0.59 5.24 0.95 0.56 4.98 6.0 9.6 7.9 39.22 47.54 4.12 42 0.22 907.98 5 61.334 0.00 4.49 0.00 0.00 4.27 6.0 9.4 7.9 33.86 30.54 6.90 30 0.55 909.55 6 124.240 2.50 2.50 0.95 2.38 2.38 6.0 6.0 9.7 22.93 22.60 8.12 24 1.00 915.76 6 61.334 0.31 1.99 0.95 0.29 1.89 6.0 9.2 8.0 15.17 14.73 4.83 24 0.42 910.39 8 73.891 0.16 1.44 0.95 0.15 1.37 6.0 8.8 8.2 11.18 17.45 3.56 24 0.60 910.65 9 132.402 0.52 1.28 0.95 0.49 1.22 6.0 8.1 8.5 10.31 17.47 3.28 24 0.60 911.09 10 330.205 0.33 0.76 0.95 0.31 0.72 6.0 6.6 9.3 6.68 8.11 3.78 18 0.60 912.38 11 102.180 0.00 0.43 0.00 0.01 0.01 0.41 6.0 6.3 9.5 1.87 1.83 1.21 5.26 8 1.00 915.46 3 70.195 0.20 0.20 0.95 0.41 0.41 6.0 6.0 9.7 1.83 1.21 5.26 8 1.00 915.30 8 71.47 0.43 0.43 0.43 0.95 0.41 0.41 6.0 6.0 9.7 1.83 1.21 5.26 8 1.00 915.30 8 119.367 0.24 0.24 0.95 0.23 0.23 6.0 6.0 9.7 1.83 1.21 5.26 8 1.00 915.30	Line (ft) (ac) (ac) (C) Loc (min) (min) (in/hr) (cfs) (fts) (in) (%) (ft) (ft) (ft) End 96.683 1.07 7.91 0.95 1.02 7.51 6.0 12.3 7.0 52.62 93.54 6.86 48 0.42 905.00 905.41 1 200.000 0.80 6.84 0.95 0.76 6.50 6.0 11.3 7.3 47.30 93.10 7.01 48 0.42 905.01 906.75 907.56 3 100.000 0.43 5.67 0.95 0.41 5.39 6.0 10.1 7.7 41.29 65.20 4.56 42 0.42 906.75 907.96 4 134.396 0.59 5.24 0.95 0.56 4.98 6.0 9.6 7.9 39.22 47.54 4.12 42 0.42 907.96 907.98 5 61.334 0	Line (ft) (ac) (ac) (C) Los (min) (min) (in/hr) (cfs) (ft/s) (in) (%) (ft) (ft)	Line (ft) (ac) (ac) (C) C (min) (min) (in/lnt) (cfs) (cfs) (th) (th)	Line (tt) (ac) (c) (c) (min) (min) (min) (cfs) (ttys) (in) (%) (tt) (tt)	ine fft) ac) cc) C) cft) (min) (min) (min) (min) (cfs) (fts) (min) (min) (min) (cfs) (fts) (min) (min)

Number of lines: 16

Project File: STO 500S.stm NOTES:Intensity = 34.74 / (Inlet time + 2.70) ^ 0.59; Return period =Yrs. 100; c = cir e = ellip b = box

Statio	n	Len	Drng A	\rea	Rnoff	Area x	C	Тс			Total	Сар	Vel	Pipe		Invert El	ev	HGL Ele	v	Grnd / Ri	im Elev	Line ID
.ine	То		Incr	Total	coeff	Incr	Total	Inlet	Syst	 (I)	flow	fuli		Size	Slope	Dn	Up	Dn	Up	Dn	Up	
	Line	(ft)	(ac)	(ac)	(C)			(min)	(min)	(in/hr)	(cfs)	(cfs)	(ft/s)	(in)	(%)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	
1	End	101.326	1.05	2.22	0.95	1.00	2.11	6.0	7.2	6.0	12.75	20.22	5.42	24	0.80	905.00	905.81	906.56	907.09	907.06	917.38	570-565
2		202.099		0.20	0.95	0.19	0.19	6.0	6.0	6.5	1.23	1.65	3.98	9	1.00	913.98	916.00	914.46	916.51	917.38	918.15	571-570
3	1	200.000	0.97	0.97	0.95	0.92	0.92	6.0	6.0	6.5	5.99	6.46	5.86	15	1.00	911.13	913.13	912.08	914.12	917.38	917.38	575-570
																				-		

Number of lines: 3

NOTES:Intensity = 30.30 / (Inlet time + 4.40) ^ 0.66; Return period =Yrs. 10; c = cir e = ellip b = box

Project File: STO 500S.2.stm

tatio	n	Len	Drng A		Rnoff	Area x	C	Тс			Total	Сар	Vel	Pipe		Invert El	ev	HGL Ele	ev	Grnd / R	im Elev	Line ID
ine	То		Incr	Total	coeff	Incr	Total	Inlet	Syst	(I)	flow	fuli		Size	Slope	Dn	Up	Dn	Up	Dn	Up	-
	Line	(ft)	(ac)	(ac)	(C)			(min)	(min)	(in/hr)	(cfs)	(cfs)	(ft/s)	(in)	(%)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	
1		101.326		2.22	0.95	1.00	2.11	6.0	6.8	9.2	19.32		7.29	24	0.80	905.00	905.81	906.56	907.39	907.06	917.38	570-565
2		202.099		0.20	0.95	0.19	0.19	6.0	6.0	9.7	1.83	1.65	4.15	9	1.00	913.98	916.00	914.73	917.22	917.38	918.15	571-570
3	1	200.000	0.97	0.97	0.95	0.92	0.92	6.0	6.0	9.7	8.90	6.46	7.25	15	1.00	911.13	913.13	912.38	916.18	917.38	917.38	575-570

Number of lines: 3

NOTES:Intensity = 34.74 / (Inlet time + 2.70) ^ 0.59; Return period =Yrs. 100; c = cir e = ellip b = box

Project File: STO 500S.2.stm

Statio	n	Len	Drng A	Area	Rnoff	Area x	C	Тс		Rain	Total	Сар	Vel	Pipe		Invert El	ev	HGL Ele	v	Grnd / Ri	im Elev	Line ID
_ine	То		Incr	Total	coeff	Incr	Total	Inlet	Syst	(I) 	flow	full		Size	Slope	Dn	Up	Dn	Up	Dn	Up	
	Line	(ft)	(ac)	(ac)	(C)			(min)	(min)	(in/hr)	(cfs)	(cfs)	(ft/s)	(in)	(%)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	
1	End	48.797	0.20	6.26	0.95	0.19	5.95	6.0	18.1	3.9	23.24	67.55	4.72	42	0.45	910.00	910.22	912.32	911.70	913.08	919.57	605-600
2	1	177.300		1.95	0.95	0.31	1.85	6.0	16.6	4.1	7.59	42.57	3.59	30	1.08	910.22	912.13	911.70	913.04	919.57	919.82	640-605
3	2	125.000	0.24	1.62	0.95	0.23	1.54	6.0	15.3	4.3	6.57	42.62	4.26	30	1.08	912.13	913.48	913.04	914.33	919.82	920.89	645-640
4	3	120.000		1.38	0.95	0.15	1.31	6.0	13.9	4.5	5.87	42.52	4.16	30	1.08	913.48	914.77	914.33	915.57	920.89	920.00	650-645
5	4	119.732	0.20	1.22	0.95	0.19	1.16	6.0	12.4	4.7	5.50	20.53	3.54	30	0.25	914.77	915.07	915.65	915.96	920.00	920.30	655-650
3	5	110.000	0.21	1.02	0.95	0.20	0.97	6.0	10.8	5.1	4.92	20.69	2.81	30	0.25	915.07	915.35	916.13	916.24	920.30	920.30	660-655
7	6	104.713	0.05	0.81	0.95	0.05	0.77	6.0	8.9	5.5	4.26	20.44	2.75	30	0.25	915.35	915.61	916.32	916.43	920.30	920.36	665-660
3	7	30.562	0.04	0.69	0.95	0.04	0.66	6.0	8.5	5.7	3.71	11.57	2.35	24	0.26	915.61	915.69	916.64	916.66	920.36	920.21	675-665
9	8	18.938	0.04	0.65	0.95	0.04	0.62	6.0	8.2	5.7	3.54	11.62	2.25	24	0.26	915.69	915.74	916.71	916.72	920.21	920.35	680-675
10	9	117.849	0.27	0.54	0.95	0.26	0.51	6.0	7.1	6.1	3.12	7.92	3.20	18	0.57	915.74	916.41	916.80	917.08	920.35	920.28	690-680
11	10	138.889	0.27	0.27	0.95	0.26	0.26	6.0	6.0	6.5	1.67	2.69	3.38	12	0.57	916.41	917.20	917.08	917.75	920.28	920.45	695-690
12	7	49.824	0.07	0.07	0.95	0.07	0.07	6.0	6.0	6.5	0.43	1.55	2.44	10	0.50	916.46	916.71	916.76	917.01	920.36	918.23	670-665
13	9	49.393	0.07	0.07	0.95	0.07	0.07	6.0	6.0	6.5	0.43	2.15	0.59	12	0.36	915.82	916.00	916.80	916.81	920.35	918.23	685-680
14	1	229.003	0.00	0.20	0.00	0.00	0.19	6.0	6.2	6.4	1.22	2.62	4.18	10	1.43	912.39	915.66	912.79	916.15	919.57	921.57	630-605
15	14	23.656	0.20	0.20	0.95	0.19	0.19	6.0	6.0	6.5	1.23	2.63	3.67	10	1.44	915.66	916.00	916.15	916.50	921.57	918.15	635-630
16	1	160.236	0.78	3.91	0.95	0.74	3.71	6.0	8.8	5.5	20.60	42.15	5.93	36	0.40	910.22	910.86	911.70	912.34	919.57	917.48	610-605
17	16	177.434	0.88	3.13	0.95	0.84	2.97	6.0	8.0	5.8	17.23	25.94	4.52	30	0.40	910.86	911.57	912.93	913.20	917.48	916.47	615-610
18	17	168.000	0.95	2.25	0.95	0.90	2.14	6.0	7.3	6.0	12.85	14.39	4.34	24	0.40	911.57	912.25	913.50	913.94	916.47	916.47	620-615
19	18	200.900	1.30	1.30	0.95	1.24	1.24	6.0	6.0	6.5	8.03	14.36	3.24	24	0.40	912.25	913.06	914.10	914.32	916.47	917.25	625-620

Project File: STO 600S.stm Run Date: 7/24/2024

tatio	n	Len	Drng A	rea	Rnoff	Area x	C	Тс		Rain	Total		Vel	Pipe		Invert El	ev	HGL Ele	v	Grnd / Ri	im Elev	Line ID
.ine	1		Incr	Total	coeff	Incr	Total	Inlet	Syst	(1)	flow	full		Size	Slope	Dn	Up	Dn	Up	Dn	Up	
	Line	(ft)	(ac)	(ac)	(C)			(min)	(min)	(in/hr)	(cfs)	(cfs)	(ft/s)	(in)	(%)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	
1	End	48.797	0.20	6.26	0.95	0.19	5.95	6.0	14.2	6.5	38.72	67.55	6.41	42	0.45	910.00	910.22	912.32	912.15	913.08	919.57	605-600
2	1	177.300	0.33	1.95	0.95	0.31	1.85	6.0	13.2	6.8	12.53	42.57	4.26	30	1.08	910.22	912.13	912.15	913.32	919.57	919.82	640-605
3	2	125.000	0.24	1.62	0.95	0.23	1.54	6.0	12.3	7.0	10.76	42.62	4.94	30	1.08	912.13	913.48	913.32	914.58	919.82	920.89	645-640
4	3	120.000	0.16	1.38	0.95	0.15	1.31	6.0	11.4	7.3	9.53	42.52	4.80	30	1.08	913.48	914.77	914.58	915.80	920.89	920.00	650-645
5	4	119.732	0.20	1.22	0.95	0.19	1.16	6.0	10.3	7.6	8.82	20.53	4.03	30	0.25	914.77	915.07	915.91	916.21	920.00	920.30	655-650
3	5	110.000	0.21	1.02	0.95	0.20	0.97	6.0	9.2	8.0	7.77	20.69	3.09	30	0.25	915.07	915.35	916.44	916.54	920.30	920.30	660-655
7	6	104.713	0.05	0.81	0.95	0.05	0.77	6.0	7.9	8.6	6.60	20.44	2.88	30	0.25	915.35	915.61	916.63	916.72	920.30	920.36	665-660
8	7	30.562	0.04	0.69	0.95	0.04	0.66	6.0	7.7	8.7	5.71	11.57	2.62	24	0.26	915.61	915.69	916.95	916.97	920.36	920.21	675-665
9	8	18.938	0.04	0.65	0.95	0.04	0.62	6.0	7.5	8.8	5.44	11.62	2.48	24	0.26	915.69	915.74	917.03	917.04	920.21	920.35	680-675
10	9	117.849	0.27	0.54	0.95	0.26	0.51	6.0	6.7	9.2	4.72	7.92	3.44	18	0.57	915.74	916.41	917.14	917.34	920.35	920.28	690-680
11	10	138.889	0.27	0.27	0.95	0.26	0.26	6.0	6.0	9.7	2.48	2.69	3.26	12	0.57	916.41	917.20	917.47	918.08	920.28	920.45	695-690
12	7	49.824	0.07	0.07	0.95	0.07	0.07	6.0	6.0	9.7	0.64	1.55	2.38	10	0.50	916.46	916.71	916.95	917.07	920.36	918.23	670-665
13	9	49.393	0.07	0.07	0.95	0.07	0.07	6.0	6.0	9.7	0.64	2.15	0.82	12	0.36	915.82	916.00	917.14	917.15	920.35	918.23	685-680
14	1	229.003	0.00	0.20	0.00	0.00	0.19	6.0	6.1	9.6	1.82	2.62	4.74	10	1.43	912.39	915.66	912.90	916.26	919.57	921.57	630-605
15	14	23.656	0.20	0.20	0.95	0.19	0.19	6.0	6.0	9.7	1.83	2.63	4.32	10	1.44	915.66	916.00	916.26	916.61	921.57	918.15	635-630
16	1	160.236	0.78	3.91	0.95	0.74	3.71	6.0	7.9	8.6	31.88	42.15	6.55	36	0.40	910.22	910.86	912.17	912.81	919.57	917.48	610-605
17	16	177.434	0.88	3.13	0.95	0.84	2.97	6.0	7.3	8.9	26.38	25.94	5.37	30	0.40	910.86	911.57	913.53	914.27	917.48	916.47	615-610
18	17	168.000	0.95	2.25	0.95	0.90	2.14	6.0	6.9	9.1	19.49	14.39	6.20	24	0.40	911.57	912.25	914.60	915.85	916.47	916.47	620-615
19	18	200.900	1.30	1.30	0.95	1.24	1.24	6.0	6.0	9.7	11.92	14.36	3.80	24	0.40	912.25	913.06	916.15	916.70	916.47	917.25	625-620

Project File: STO 600S.stm Run Date: 7/24/2024

tatio	n	Len	Drng A	Area	Rnoff	Area x	C	Тс			Total	Сар	Vel	Pipe		Invert El	ev	HGL Ele	ev	Grnd / R	im Elev	Line ID
ne	То		Incr	Total	coeff	Incr	Total	Inlet	Syst	-(I) -	flow	fuli		Size	Slope	Dn	Up	Dn	Up	Dn	Up	-
	Line	(ft)	(ac)	(ac)	(C)			(min)	(min)	(in/hr)	(cfs)	(cfs)	(ft/s)	(in)	(%)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	
	End	61.192	0.76	1.38	0.95	0.72	1.31	6.0	6.6	6.3	8.22	16.10	4.44	24	0.51	910.00	910.31	911.31	911.33	911.80	914.50	705-700
		108.948		0.62	0.95	0.59	0.59	6.0	6.0	6.5	3.83	4.55	3.88	15		910.31		911.33	911.72		914.50	
		: STO 70	200 (NI. ···	r of lines: 2			D. 5	te: 7/24/2	224

tatio	n	Len	Drng A	Area	Rnoff	Area x	C	Тс		Rain	Total	Сар	Vel	Pipe		Invert El	ev	HGL Ele	v	Grnd / Ri	im Elev	Line ID
ne	То		Incr	Total	coeff	Incr	Total	Inlet	Syst	-(I) -	flow	fuli		Size	Slope	Dn	Up	Dn	Up	Dn	Up	
	Line	(ft)	(ac)	(ac)	(C)			(min)	(min)	(in/hr)	(cfs)	(cfs)	(ft/s)	(in)	(%)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	
	End	61.192	0.76	1.38	0.95	0.72	1.31	6.0	6.4	9.4	12.33	16.10	5.65	24	0.51	910.00	910.31	911.31	911.62	911.80	914.50	705-700
		108.948		0.62	0.95	0.59	0.59	6.0	6.0	9.7	5.69	4.55	4.63	15	0.50	910.31	910.85	912.36	913.21	914.50	914.50	710-705
 roie	ect File	STO 70)0S.stm		-	1	1	-	-	-	-	1	-	1	1	Numbe	r of lines: 2)	-	Run Da	te: 7/24/20)24

Statio	n	Len	Drng A	Area	Rnoff	Area x	С	Тс		Rain	Total		Vel	Pipe		Invert El	ev	HGL Ele	v	Grnd / Ri	im Elev	Line ID
Line		-	Incr	Total	coeff	Incr	Total	Inlet	Syst	-(I) -	flow	full		Size	Slope	Dn	Up	Dn	Up	Dn	Up	
	Line	(ft)	(ac)	(ac)	(C)			(min)	(min)	(in/hr)	(cfs)	(cfs)	(ft/s)	(in)	(%)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	
1		104.185		1.54	0.00	0.00	1.46	6.0	9.5	5.4	7.84	16.58	4.28	24	0.54	905.00	905.56	906.33	906.56	907.25	918.73	1505-1500
2	1	196.124	0.00	1.54	0.00	0.00	1.46	6.0	8.3	5.7	8.33	16.71	5.22	24	0.55	905.56	906.63	906.56	907.66	918.73	918.52	1510-1505
3	2	111.162	0.00	1.54	0.00	0.00	1.46	6.0	7.7	5.9	8.63	16.62	5.25	24	0.54	906.63	907.23	907.66	908.28	918.52	918.21	1515-1510
4	3	96.688	0.00	1.54	0.00	0.00	1.46	6.0	7.1	6.1	8.91	16.59	5.30	24	0.54	907.23	907.75	908.28	908.81	918.21	914.10	1520-1515
5	4	16.000	0.61	0.61	0.95	0.58	0.58	6.0	6.0	6.5	3.77	6.46	5.06	15	1.00	911.34	911.50	912.03	912.28	914.10	913.51	1521-1520
6	4	75.000	0.00	0.93	0.00	0.00	0.88	6.0	6.7	6.2	5.50	7.67	4.72	18	0.53	908.25	908.65	909.19	909.59	914.10	914.60	1525-1520
7	6	75.000	0.00	0.60	0.00	0.00	0.57	6.0	6.1	6.5	3.68	10.50	3.29	18	1.00	908.65	909.40	909.94	910.13	914.60	914.10	1530-1525
8	7	16.746	0.60	0.60	0.95	0.57	0.57	6.0	6.0	6.5	3.70	6.51	5.05	15	1.02	911.33	911.50	912.01	912.28	914.10	913.51	1531-1530
9	6	10.500	0.33	0.33	0.95	0.31	0.31	6.0	6.0	6.5	2.04	3.48	3.57	12	0.95	909.15	909.25	909.94	909.86	914.60	914.00	1526-1525

Number of lines: 9

NOTES:Intensity = 30.30 / (Inlet time + 4.40) ^ 0.66; Return period =Yrs. 10; c = cir e = ellip b = box

Project File: STO 1500S.stm

Statio	n	Len	Drng A	Area	Rnoff	Area x	С	Тс		Rain	Total		Vel	Pipe		Invert El	ev	HGL Ele	v	Grnd / Ri	im Elev	Line ID
Line		-	Incr	Total	coeff	Incr	Total	Inlet	Syst	-(I) -	flow	full		Size	Slope	Dn	Up	Dn	Up	Dn	Up	
	Line	(ft)	(ac)	(ac)	(C)			(min)	(min)	(in/hr)	(cfs)	(cfs)	(ft/s)	(in)	(%)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	
1	End	104.185	0.00	1.54	0.00	0.00	1.46	6.0	8.4	8.4	12.23	16.58	5.69	24	0.54	905.00	905.56	906.33	906.82	907.25	918.73	1505-1500
2	1	196.124	0.00	1.54	0.00	0.00	1.46	6.0	7.6	8.8	12.81	16.71	5.21	24	0.55	905.56	906.63	907.29	907.92	918.73	918.52	1510-1505
3	2	111.162	0.00	1.54	0.00	0.00	1.46	6.0	7.1	9.0	13.15	16.62	5.69	24	0.54	906.63	907.23	908.09	908.54	918.52	918.21	1515-1510
4	3	96.688	0.00	1.54	0.00	0.00	1.46	6.0	6.7	9.2	13.46	16.59	5.41	24	0.54	907.23	907.75	908.84	909.13	918.21	914.10	1520-1515
5	4	16.000	0.61	0.61	0.95	0.58	0.58	6.0	6.0	9.7	5.60	6.46	5.74	15	1.00	911.34	911.50	912.24	912.46	914.10	913.51	1521-1520
6	4	75.000	0.00	0.93	0.00	0.00	0.88	6.0	6.5	9.4	8.27	7.67	4.68	18	0.53	908.25	908.65	909.75	910.22	914.10	914.60	1525-1520
7	6	75.000	0.00	0.60	0.00	0.00	0.57	6.0	6.1	9.6	5.48	10.50	3.21	18	1.00	908.65	909.40	910.56	910.73	914.60	914.10	1530-1525
8	7	16.746	0.60	0.60	0.95	0.57	0.57	6.0	6.0	9.7	5.50	6.51	5.72	15	1.02	911.33	911.50	912.21	912.45	914.10	913.51	1531-1530
9	6	10.500	0.33	0.33	0.95	0.31	0.31	6.0	6.0	9.7	3.03	3.48	3.85	12	0.95	909.15	909.25	910.56	910.63	914.60	914.00	1526-1525

Number of lines: 9

NOTES:Intensity = 34.74 / (Inlet time + 2.70) ^ 0.59; Return period =Yrs.100; c = cir e = ellip b = box

Project File: STO 1500S.stm

Statio	n	Len	Drng A	Area	Rnoff	Area x	С	Тс		Rain	Total		Vel	Pipe		Invert El	ev	HGL Ele	v	Grnd / Ri	im Elev	Line ID
Line			Incr	Total	coeff	Incr	Total	Inlet	Syst	(1)	flow	full		Size	Slope	Dn	Up	Dn	Up	Dn	Up	
	Line	(ft)	(ac)	(ac)	(C)			(min)	(min)	(in/hr)	(cfs)	(cfs)	(ft/s)	(in)	(%)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	
1		104.185		1.54	0.00	0.00	1.46	6.0	8.2	9.3	13.64	16.58	5.93	24	0.54	905.00	905.56	906.33	906.98	907.25	918.73	1505-1500
2	1	196.124	0.00	1.54	0.00	0.00	1.46	6.0	7.4	9.7	14.24	16.71	5.26	24	0.55	905.56	906.63	907.42	908.08	918.73	918.52	1510-1505
3	2	111.162	0.00	1.54	0.00	0.00	1.46	6.0	7.0	10.0	14.59	16.62	5.70	24	0.54	906.63	907.23	908.24	908.67	918.52	918.21	1515-1510
4	3	96.688	0.00	1.54	0.00	0.00	1.46	6.0	6.7	10.2	14.91	16.59	5.42	24	0.54	907.23	907.75	908.97	909.30	918.21	914.10	1520-1515
5	4	16.000	0.61	0.61	0.95	0.58	0.58	6.0	6.0	10.7	6.17	6.46	5.92	15	1.00	911.34	911.50	912.32	912.50	914.10	913.51	1521-1520
6	4	75.000	0.00	0.93	0.00	0.00	0.88	6.0	6.4	10.4	9.15	7.67	5.18	18	0.53	908.25	908.65	909.81	910.38	914.10	914.60	1525-1520
7	6	75.000	0.00	0.60	0.00	0.00	0.57	6.0	6.1	10.6	6.05	10.50	3.42	18	1.00	908.65	909.40	910.79	911.04	914.60	914.10	1530-1525
8	7	16.746	0.60	0.60	0.95	0.57	0.57	6.0	6.0	10.7	6.07	6.51	5.91	15	1.02	911.33	911.50	912.29	912.50	914.10	913.51	1531-1530
9	6	10.500	0.33	0.33	0.95	0.31	0.31	6.0	6.0	10.7	3.34	3.48	4.25	12	0.95	909.15	909.25	910.79	910.89	914.60	914.00	1526-1525

Number of lines: 9

NOTES:Intensity = 36.61 / (Inlet time + 2.40) ^ 0.58; Return period =Yrs. 200; c = cir e = ellip b = box

Project File: STO 1500S.stm

tatio	n	Len	Drng A	\rea	Rnoff	Area x	C	Тс		Rain	Total	Сар	Vel	Pipe		Invert Ele	ev	HGL Ele	v	Grnd / Ri	im Elev	Line ID
ine	То	1	Incr	Total	coeff	Incr	Total	Inlet	Syst	(I)	flow	fulİ		Size	Slope	Dn	Up	Dn	Up	Dn	Up	-
	Line	(ft)	(ac)	(ac)	(C)			(min)	(min)	(in/hr)	(cfs)	(cfs)	(ft/s)	(in)	(%)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	
	End	38.447	0.52	0.52	0.95	0.49	0.49	6.0	6.0	6.5	3.21	3.59	4.64	12	1.01	901.00	901.39	901.90	902.16	902.02	904.44	1605-1600

tatior	n	Len	Drng A	rea	Rnoff	Area x	C	Тс		Rain	Total	Сар	Vel	Pipe		Invert Ele	ev	HGL Ele	v	Grnd / Ri	m Elev	Line ID
ine	То		Incr	Total	coeff	Incr	Total	Inlet	Syst	-(I) -	flow	fuli		Size	Slope	Dn	Up	Dn	Up	Dn	Up	
	Line	(ft)	(ac)	(ac)	(C)			(min)	(min)	(in/hr)	(cfs)	(cfs)	(ft/s)	(in)	(%)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	
	End	38.447	0.52	0.52	0.95	0.49	0.49	6.0	6.0	9.7	4.77	3.59	6.23	12	1.01	901.00	901.39	901.90	902.61	902.02	904.44	1605-1600