## STORM SEWER CALCULATIONS

510	)KM S	SEWER C	ALCUL																																		
	Collection	n Point Station	Ī	Conduit Prope		Вох	<u> </u>	<u> </u>	Wetted	<u> </u>		t Properties Flowline	e Elevation	<u> </u>		Incremental D	Τ	Ι.	Accum-	Up-stream	Design		1	Conduit Capacity F	Partial	. Time in	Friction	Friction	H	GL   _	V1/2g	-	Junctions			<b>Design</b> Top	p of Curb HGL Depth
SYSTEM	Up-strea	Down-	Length	# of Barrels   Pipe Size	Span	Rise	Туре	Area	Perimete	er Hydraulio Radius	_	Up-stream	Down-	Slope	Inlet ID	Area	Runoff Coeff. C	Incre- mental C*A	ulated C*A	T <sub>C</sub>	Storm Freq.	Intensity I	Runoff Q	σρασιτή Ι	Flow	Conduit	Slope S <sub>f</sub>	Headloss	Up-stream	Down- stream	(U/S)	V2/2g	Туре	Coeff. K <sub>J</sub>	Velocity Headloss		levation Below T/C
		stream	(ft)	(inches)	(ft)	(ft)		(ft <sup>2</sup> )	P <sub>W</sub> (ft)	(ft)		<u> </u>	stream	(ft/ft)	1	(acres)				(min)	(yr)	(in/hr)	(cfs)	(cfs) (Y	/es/No) (ft/s)	(min)	(ft/ft)	(ft)	(ft)	(ft)	(ft)	(ft)				(ft)	(ft)
(1)	(2)	(3)	(4)	(5) (6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)	(21)	(22)	(23)	(24)	(25)	(26)	(27) (28)	(29)	(30)	(31)	(32)	(33)	(34)	(35)	(36)	(37)	(38)	(39)	(40) (41)
Line D1	6+36.6	3 5+90.30 0 4+22.09	46.33 168.21	1 18 1 24			RCP RCP	1.7672 3.1416		0.375 0.500	0.013	537.11 535.53	536.25 534.69	0.0250 0.0050	4 D1A	1.28 1.29	0.50 0.50	0.64	0.64 1.29	10.00 10.22	100 100	9.80 9.77	6.3 12.6		Yes <b>3.6</b> Yes <b>4.0</b>		0.0036 0.0031	0.17 0.52	537.68 536.86	536.86 536.02	0.20	0.20 0.25	Inlet 60° Wye	1.25 0.35			541.11 3.18 541.11 4.25
		9 2+92.09					RCP	4.9088		0.625		534.19	533.54	0.0050	D1B	2.28	0.50	1.14	2.43	10.22	100	9.66	23.5		Yes <b>4.8</b>		0.0033	0.42	535.89	535.38	0.25		60° Wye	0.35			539.33 3.31
		9 2+19.49	72.60	1 48			RCP	12.5664		1.000	0.013	532.04	531.89	0.0020	D1C,D1D		0.50	2.80	5.23	11.37	100	9.59	50.1		Yes 4.0		0.0012	0.09	535.38	535.33	0.35		60° Wye	0.35			538.54 3.16
		9 1+45.61 1 0+18.00	73.88 127.61	1 54 1 54			RCP RCP	15.9044 15.9044	4 14.1372 4 14.1372			530.74 530.75	530.75 530.50	0.0020	D2 D3	4.49 1.14	0.50 0.78	2.24 0.89	7.47 8.36	11.67 11.95	100 100	9.55 9.51			Yes <b>4.5</b> Yes <b>5.0</b>		0.0013 0.0016	0.10 0.21	535.15 534.78	535.06 534.57	0.25 0.31	0.31	MH 60° Wye	0.55			539.12 3.79 538.40 3.34
							1101	10.304	14.1072	1.120	0.010	000.70	000.00	0.0020		1.14	0.70	0.00	0.00	11.50	100	3.01	7 5.5	07.5	163 0.0	0.40	0.0010	0.21	004.70	004.07	0.01	0.00		0.00	0.20	00.00	700.40 0.04
Lat D1A	0+37.4	0 0+00.00	37.40	1 18			RCP	1.7672	4.7124	0.375	0.013	537.11	535.76	0.0361	3	1.29	0.50	0.65	0.65	10.00	100	9.80	6.3	20.0	Yes 3.6 4.0		0.0036	0.13		537.04 536.86	0.00 0.20	0.20 0.25	Inlet 60° Wye			537.88 5 537.04	541.11 3.23
	1																								4.0				556.66	330.00	0.20	0.25	60 vvye	0.33	0.10	37.04	
Lat D1B	0+16.7	4 0+00.00	16.74	1 24			RCP	3.1416	6.2832	0.500	0.013	535.33	534.42	0.0544	7	2.28	0.50	1.14	1.14	10.00	100	9.80	11.2	52.8	Yes 3.6		0.0024	0.04			0.00	0.20	Inlet				539.33 2.90
																									4.8				535.89	535.89	0.20	0.35	60° Wye	0.35	0.29 53	536.18	
Lat D1C	0+16.7	4 0+00.00	16.74	1 24			RCP	3.1416	6.2832	0.500	0.013	534.54	533.03	0.0902	5	3.39	0.50	1.70	1.70	10.00	100	9.80	16.6	67.9	Yes <b>5.3</b>		0.0054	0.09	535.56	535.48	0.00	0.43	Inlet	1.25			538.54 2.43
	1														-										4.0			-	535.38	535.38	0.43	0.25	60° Wye	0.35	0.10 53	535.48	
Lat D1D	0+16.7	4 0+00.00	16.74	1 24			RCP	3.1416	6.2832	0.500	0.013	534.54	533.03	0.0902	6	2.20	0.50	1.10	1.10	10.00	100	9.80	10.8	67.9	Yes <b>3.4</b>	0.08	0.0023	0.04	535.60	535.56	0.00	0.18	Inlet	1.25	0.23 53	535.83	538.54 2.71
																									4.0				535.38	535.38	0.18	0.25	60° Wye	0.35	0.18 53	535.56	
Line D2	4+61.4	9 3+62.63	98.86	1 24			RCP	3.1416	6.2832	0.500	0.013	538.56	536.56	0.0070	1	2.25	0.50	1.13	1.13	10.00	100	9.80	11.0	18.9	Yes <b>3.5</b>	0.47	0.0024	0.23	539.21	538.16	0.00	0.19	Inlet	1.25	0.24 53	<b>539.45</b> 5	542.56 3.11
		3 0+00.00					RCP					536.53		0.0070	D2A	2.24	0.50	1.12	2.24	10.47	100	9.73	21.8		Yes <b>4.4</b>		0.0028	1.02	538.00	535.45	0.19	0.31	60° Wye	0.35	0.24 53	538.16	541.90 3.74
	<u> </u>														_										4.5			-	535.15	535.15	0.31	0.31	MH	0.55	0.17 53	535.45	
Lat D2A	0+16.7	4 0+00.00	16.74	1 24			RCP	3.1416	6.2832	0.500	0.013	537.90	536.79	0.0663	2	2.24	0.50	1.12	1.12	10.00	100	9.80	11.0	58.3	Yes <b>3.5</b>	0.08	0.0023	0.04	538.49	538.24	0.00	0.19	Inlet	1.25	0.24 53	538.73	541.90 3.17
																									4.4				538.00	538.00	0.19	0.31	60° Wye	0.35		538.24	
Line D3	4+07.6	9 1+40.07	267.62	1 18			RCP	1.7672	2 4.7124	0.375	0.013	535.95	534.10	0.0050	19	0.80	0.80	0.64	0.64	10.00	100	9.80	6.3	7.4	Yes <b>3.6</b>	1.25	0.0036	0.96	536.66	535.37	0.00	0.20	Inlet	1.25	0.25 53	<b>536.91</b> 5	539.72 2.81
		7 0+00.00		1 24			RCP		6.2832		0.013	533.60	531.87			0.34	0.74	0.25	0.89	11.25	100	9.61			Yes <b>2.7</b>	0.85	0.0014	0.20	535.33	535.13	0.20	0.12	60° Wye	0.35	0.05 53	535.37	538.23 2.86
	-																								5.0			-	534.78	534.78	0.12	0.39	60° Wye	0.35	0.35 5	535.13	
Lat D3A	0+57.8	2 0+00.00	57.82	1 18			RCP	1.7672	2 4.7124	0.375	0.013	534.23	533.83	0.0069	20	0.34	0.74	0.25	0.25	10.00	100	9.80	2.4	8.7	Yes <b>1.4</b>	0.70	0.0005	0.03	535.46	535.43	0.00	0.03	Inlet	1.25	0.04 53	35.50	538.23 2.73
																									2.7				535.33	535.33	0.03	0.12	60° Wye	0.35	0.11 53	535.43	
Line D4	6+58.4	9 4+96.34	162.15	1 18			RCP	1.7672	2 4.7124	0.375	0.013	536.89	533.80	0.0150	8	2.31	0.50	1.15	1.15	10.00	100	9.80	11.3	12.9	Yes <b>6.4</b>	0.42	0.0115	1.87	537.09	535.22	0.00	0.63	Inlet	1.25	0.63 5	537.72	540.89 3.17
	4+96.3	4 2+20.35	275.99	1 30			RCP	4.9088	7.854	0.625	0.013	532.80	528.69	0.0150	D5	6.71	0.50	3.36	4.51	10.42	100	9.74	43.9	50.2	Yes <b>8.9</b>	0.51	0.0114	3.14	534.33	531.19	0.63	1.24	MH	0.55	0.89 53	535.22	538.38 3.16
		5 1+66.93 3 1+22.37					RCP		9.4248 2 10.9956	0.750		528.16 526.86				2.22 7.95	0.50			10.94 11.05	100 100	9.66			Yes 7.7 Yes 9.6	0.12 0.08	0.0066 0.0084	0.35 0.37		530.35 529.05		0.91 1.44	60° Wye MH				534.38 3.19 533.44 3.09
		7 0+00.00					RCP	12.5664	4 12.5664			525.69				2.40	0.50			11.13					Yes <b>8.3</b>		0.0052			527.85							532.90 3.85
L-t-D4A	0.100	0 0.00.00	40.00	4 40			DOD	4.7070	2 4.7124	0.075	0.042	F20.20	F20.04	0.0074	10	2.22	0.50	4 44	4.44	10.00	100	0.00	40.0	24.0	NI- C.4			0.40	F24 F0	524.44	0.00	0.50	la la 4	4.05	0.50	520.40	524.20
Lat D4A	0+16.8	8 0+00.00	16.88	1 18			RCP	1.7672	4.7124	0.375	0.013	530.38	528.91	0.08/1	10	2.22	0.50	1.11	1.11	10.00	100	9.80	10.9	31.0	No 6.1 7.7	0.05	0.0106	0.18		531.41		0.59 0.91	60° Wye	0.35	0.59 5.	32.18 331.41	534.38 2.20
Lat D4B	0+16.6	7 0+00.00	16.67	1 18			RCP	1.7672	2 4.7124	0.375	0.013	528.90	526.94	0.1176	9	2.40	0.50	1.20	1.20	10.00	100	9.80	11.7	36.0	No 6.6 8.3		0.0124	0.21		529.31 528.49	0.00		Inlet 60° Wye		0.69 <b>5</b> 3 <b>5</b> 2 <b>5</b> 2		532.90 2.70
																																		0.00			
Line D5		6 3+07.80 0 0+90.37					RCP RCP	3.1416 4.9088	6.2832 7.854			538.31 534.95			11 D5A	2.39	0.50 0.50	1.20 1.21	1.20 2.41	10.00 10.46	100 100	9.80 9.73			No <b>3.7</b> No <b>4.8</b>		0.0027 0.0033	0.28 0.71	537.79 537.24	537.51	0.00 0.22	0.22 0.35	Inlet 60° Wye	1.25 0.35			541.52 3.51 540.81 3.30
		7 0+51.14					RCP		3 7.854 3 7.854			533.43				0.75	0.50		2.41		100				No <b>5.5</b>						0.22		60° Wye				539.22 2.69
	0+51.1	4 0+00.00	51.14	1 30			RCP		7.854			533.16		0.0070	D5C	1.14	0.50			11.34		9.60		34.3	No <b>6.6</b>		0.0061	0.31		535.20		0.67	60° Wye	0.35			539.02 3.00
	-																								8.9				534.33	534.33	0.67	1.24	MH	0.55	0.87	535.20	
Lat D5A	0+16.7	4 0+00.00	16.74	1 24			RCP	3.1416	6.2832	0.500	0.013	537.61	535.20	0.1440	12	2.43	0.50	1.21	1.21	10.00	100	9.80	11.9	85.8		0.07	0.0028	0.05		537.51		0.22	Inlet	1.25	0.22 5	537.78	540.81 3.03
																									4.8				537.24	537.24	0.22	0.35	60° Wye	0.35	0.28 53	37.51	
Lat D5B	0+16.5	7 0+00.00	16.57	1 18			RCP	1.7672	2 4.7124	0.375	0.013	535.49	533.93	0.0941	14	0.75	0.50	0.37	0.37	10.00	100	9.80	3.7	32.2	No <b>2.1</b>	0.13	0.0012	0.02	536.65	536.63	0.00	0.07	Inlet	1.25	0.07 5	536.72	539.22 2.50
																									5.5				536.19	536.19	0.07	0.46	60° Wye	0.35	0.44 53	36.63	
Lat D5C	0+16.9	4 0+00.00	16.94	1 18			RCP	1.7672	2 4.7124	0.375	0.013	535.10	533.65	0.0850	13	1.14	0.50	0.57	0.57	10.00	100	9.80	5.6	30.6	No <b>3.2</b>	0.09	0.0028	0.05	536.18	536.13	0.00	0.16	Inlet	1.25	0.16	536.34	539.02 2.68
	21,0.0	2 00.00	. 5.51					0, 2	,2,	3.570	3.010	230.10		1.0000	1	****	1 3.00	1.0,	1.0.	13.00		1.55			6.6		1.5020	1.00							0.61 5		2.00
line D6	6+1// /	6 5+88.01	26.45	1 24			RCD	2 1/11	6.2832	0.500	0.013	536.10	53/ 50	0.0682	15	2.44	0.50	1 22	1 22	10.00	100	9.80	11.9	59.1	Yes <b>3.8</b>	0.12	0.0028	0.07	536 71	535.44	0.00	0.22	Inlet	1 25	0.22 53	536.93	538.90 1.97
	5+88.0	1 0+51.23	536.78	1 30			RCP	4.9088	7.854	0.625	0.013	533.98	528.63	0.0070	D6A	2.13	0.50	1.06	2.28	10.12	100	9.78	22.3		No <b>4.6</b>	1.97	0.0030	1.58	535.44	531.38	0.22	0.32	60° Wye	1.00	0.10 53	535.44 5	538.83 3.39
	0+51.2	3 0+00.00	51.23	1 30			RCP	4.9088	7.854	0.625	0.013	528.63	527.86	0.0150	D6B,D6C	3.39	0.50	1.69	3.98	12.08	100	9.49	37.7	50.2		0.11	0.0084	0.43		530.35			60° Wye	1.00	0.60 53		534.10 2.72
	+			+			+					+	1		1					+					9.6			+	329.42	529.42	0.92	1.44	MH	0.55	0.93 53	530.35	
Lat D6A	0+28.1	1 0+00.00	28.11	1 18			RCP	1.7672	2 4.7124	0.375	0.013	536.03	533.65	0.0847	16	2.13	0.50	1.06	1.06	10.00	100	9.80	10.4	30.6		0.08	0.0098	0.28		535.57		0.54	Inlet				538.83 2.78
	1					1	1						1		1					1					4.6		1	1	535.44	535.44	0.54	0.32	60° Wye	0.35	0.13 53	35.57	
Lat D6B	0+16.4	3 0+00.00	16.43	1 18			RCP	1.7672	2 4.7124	0.375	0.013	530.24	528.82	0.0889	17	1.83	0.50	0.91	0.91	10.00	100	9.80	9.0	31.3	No <b>5.1</b>		0.0072	0.12		531.56							534.24 2.16
	<u> </u>												1												7.7			1	530.78	530.78	0.40	0.92	60° Wye	0.35	0.78 53	31.56	
Lat D6C	0+17.0	9 0+00.00	17.09	1 18	+	+	RCP	1.7672	2 4.7124	0.375	0.013	530.10	528.82	0.0772	18	1.56	0.50	0.78	0.78	10.00	100	9.80	7.6	29.2	No <b>4.3</b>	0.07	0.0052	0.09	531.69	531.60	0.00	0.29	Inlet	1.25	0.29 5	531.98	534.10 2.12
							1				1		1												7.7					530.78	0.29	0.92	60° Wye		0.82 53		
line D7	0+45.5	5 0+00.00	45 55	1 36		1	RCP	7 0686	9.4248	0.750	0.013	530.50	530.00	0.0110	Pond					1			38.9	70.0	Yes 5.5	0.14	0.0034	0.15	533 15				Inlet	1 25	0.47 53	533.63	N/A
Line D8		5 1+39.94				4		_	0 0							0.00	0.50	0.00	0.00	40.00	100	0.00			No 5.8										0.52 <b>5</b> ′ 0.39 <b>5</b> ′		N/A
		4 1+29.96 6 0+20.00			8	4 4		31.1100 31.1100		1.390 1.390		506.05 505.99				0.00	0.50	0.00	0.00 0.32	10.00	100	9.80	179.8 182.9		No <b>5.8</b> No <b>5.9</b>		0.0016 0.0017	0.02 0.19	511.76 511.39	511.74 511.20	0.52	0.52 0.54				512.15 511.74	
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INI FT	CAL	CUL	ATIONS	

	Location						Area	Runoff					Gutter Flow										Gutter Flow					Inlets Ca				Inlets Capacity					Inlet By-pass			
							Time of					Total							Depression		Depth of Gutter Flow		Ponding Wi	Ponding Width/ Spread Max Allo		Depressed Gutter Section		Section Beyond Depression		Conveyance		Ratio of		Inlet Le	ength					
Stree	Station	Offset		Design Freq	С	Area ID	Concentration	n Intensity	Area A	Runoff Q	Upstream Bypass C*A	Gutter	Thoroughfar Type	On-Grade/ Sag	Manning's n	Long Slope S	Crown Type	Cross Slope S <sub>X</sub>	Depth a	Width W	(allow)	(actual)	(allow)	(actual)	Flow based on Ponding	Area	Wetted Perimeter	Area	Wetted Perimeter	Depression Section	Section Beyond Depression	Depression flow to Total Flow	Cross-	l .' l	Actual	Inlet Capacity Q <sub>C</sub>	Flow Q <sub>by pass</sub>	*A To	Inlet ID	
							Тс												·		<b>y</b> allow	<b>y</b> actual	I allow	T <sub>actual</sub>	Q <sub>max Gutter</sub>	A <sub>W</sub>	P <sub>W</sub>	A <sub>0</sub>	$P_0$	Kw	K <sub>0</sub>	E <sub>0</sub>	, ,	LReq'd	Lactual					
				(yr)			(min)	(in/hr)	(acres)	(cfs)	(cfs)	(cfs)				(ft/ft)		(ft/ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(cfs)	$(ft^2)$	(ft)	(ft²)	(ft)	(cfs)	(cfs)		(ft/ft)	(ft)	(ft)	(cfs)	(cfs)			
(2)	(3)	(4)		(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)	(21)	(22)	(23)	(24)	(25)	(26)	(27)	(28)	(29)	(30)	(31)	(32)	(33)	(34)	(35)	(36)	(37)	(38)	9)	(40)	
Forest Cr	eek 4+66.00	15.50	LT	100	0.50	1	10	9.8	2.25	11.0		11.0	Local	On Grade	0.0175	0.70%	6" Rooftop	3.57%	0.5	2	0.5	0.49	14	13.6	11.8	1.40	2.08	2.41	11.61	91.42	71.68	0.56	0.18	11.93	15	19.0	0.0	00		
Forest Cr	eek 3+71.00	15.50	RT	100	0.50	2	10	9.8	2.24	11.0		11.0	Local	On Grade	0.0175	0.70%	6" Rooftop	3.57%	0.5	2	0.5	0.44	14	12.5	11.8	1.32	2.08	1.95	10.46	82.60	54.16	0.60	0.19	11.48	15	20.7	0.0	00		
Shady Oa	aks 0+56.00	15.50	LT	100	0.50	3	10	9.8	1.29	6.3		6.32	Local	On Grade	0.0175	1.21%	6" Rooftop	3.57%	0.5	2	0.5	0.36	14	10.0	15.5	1.14	2.08	1.14	7.97	64.93	26.29	0.71	0.21	9.90	10	6.5	0.0	00		
hady Oa	aks 0+56.00	15.50	RT	100	0.50	4	10	9.8	1.28	6.3		6.29	Local	On Grade	0.0175	1.21%	6" Rooftop	3.57%	0.5	2	0.5	0.36	14	10.0	15.5	1.14	2.08	1.13	7.95	64.79	26.11	0.71	0.21	9.87	10	6.5	0.0	00		
pple Tre	e 17+00.00	15.50	RT	100	0.50	5	10	9.8	3.39	16.6		16.6	Local	Sag	0.0175	0.70%	6" Rooftop	3.57%	0.5	2	0.5	0.50	14	13.96	23.6	1.43	2.08	2.56	11.96	94.15	77.58	0.55	0.17	16.84	20	19.2		00		
pple Tre	e 17+00.00	15.50	LT	100	0.50	6	10	9.8	2.20	10.8		10.8	Local	Sag	0.0175	0.70%	6" Rooftop	3.57%	0.5	2	0.5	0.48	14	13.51	23.6	1.39	2.08	2.37	11.51	90.60	69.95	0.56	0.18	9.68	15	15.1	0.0	00		
ople Tre	e 15+70.00	15.50	LT	100	0.50	7	10	9.8	2.28	11.2		11.2	Local	On Grade	0.0175	0.70%	6" Rooftop	3.57%	0.5	2	0.5	0.49	14	13.7	11.8	1.41	2.08	2.44	11.69	91.97	72.86	0.56	0.18	12.03	15	18.9	0.0	00		
1iramont	11+93.00	15.50	RT	100	0.50	8	10	9.8	3.09	15.2		15.2	Local	On Grade	0.0175	1.50%	6" Rooftop	3.57%	0.5	2	0.5	0.47	14	13.30	17.3	1.38	2.08	2.28	11.30	88.96	66.56	0.57	0.18	16.97	15	11.3	3.9	39	9	
/liramont	6+60.50	15.50	RT	100	0.50	9	10	9.8	1.99	9.7	0.39	13.6	Local	On Grade	0.0175	1.50%	6" Rooftop	3.57%	0.5	2	0.5	0.46	14	12.77	17.3	1.34	2.08	2.07	10.77	84.93	58.56	0.59	0.18	13.87	15	11.7	1.9	19		
iramont	7+59.00	15.50	LT	100	0.50	10	10	9.8	2.22	10.9		10.9	Local	On Grade	0.0175	1.50%	6" Rooftop	3.57%	0.5	2	0.5	0.42	14	11.73	17.3	1.27	2.08	1.69	9.73	77.28	44.75	0.63	0.19	14.04	15	12.7	0.0	00		
hady Oa	aks 11+01.00	15.50	LT	100	0.50	11	10	9.8	2.39	11.7		11.7	Local	On Grade	0.0175	0.70%	6" Rooftop	3.57%	0.5	2	0.5	0.50	14	13.93	11.8	1.42	2.08	2.54	11.93	93.86	76.95	0.55	0.17	12.35	15	18.6	0.0	00		
hady Oa	aks   12+01.00	15.50	RT	100	0.50	12	10	9.8	2.43	11.9		11.9	Local	On Grade	0.0175	0.70%	6" Rooftop	3.57%	0.5	2	0.5	0.50	14	14.01	11.8	1.43	2.08	2.57	12.01	94.49	78.33	0.55	0.17	12.46	15	18.5	0.0	00		
hady Oa	aks 14+57.00	15.50	LT	100	0.50	13	10	9.8	1.14	5.6		5.6	Local	On Grade	0.0175	0.70%	6" Rooftop	3.57%	0.5	2	0.5	0.38	14	10.56	11.8	1.18	2.08	1.31	8.56	68.96	31.79	0.68	0.21	8.15	10	9.1	0.0	00		
Shady Oa	aks 14+19.00	15.50	RT	100	0.50	14	10	9.8	0.75	3.7		3.7	Local	On Grade	0.0175	1.04%	6" Rooftop	3.57%	0.5	2	0.5	0.30	14	8.36	14.4	1.03	2.08	0.72	6.36	54.39	14.41	0.79	0.23	7.14	10	8.2	0.0	00		
/lontrose	10+32.00	15.50	LT	100	0.50	15	10	9.8	2.44	11.9		11.9	Local	On Grade	0.0175	0.70%	6" Rooftop	3.57%	0.5	2	0.5	0.50	14	14.03	11.8	1.43	2.08	2.58	12.03	94.66	78.70	0.55	0.17	12.49	15	18.5	0.0	00		
/lontrose	10+42.00	15.50	RT	100	0.50	16	10	9.8	2.13	10.4		10.4	Local	On Grade	0.0175	0.70%	6" Rooftop	3.57%	0.5	2	0.5	0.48	14	13.34	11.8	1.38	2.08	2.29	11.34	89.27	67.18	0.57	0.18	11.56	15	19.4	0.0	00		
ontrose	15+92.00	15.50	LT	100	0.50	17	10	9.8	1.83	9.0		9.0	Local	On Grade	0.0175	1.50%	6" Rooftop	3.57%	0.5	2	0.5	0.39	14	10.92	17.3	1.21	2.08	1.42	8.92	71.45	35.44	0.67	0.20	12.62	15	13.5	0.0	00		
ontrose	15+88.00	15.50	RT	100	0.50	18	10	9.8	1.56	7.6		7.6	Local	On Grade	0.0175	1.73%	6" Rooftop	3.57%	0.5	2	0.5	0.36	14	10.01	18.6	1.14	2.08	1.14	8.01	65.14	26.57	0.71	0.21	11.94	15	13.1	0.0	00		
łays	18+20.00	15.50	RT	100	0.76	19	10	9.8	0.80	6.0		6.0	Local	On Grade	0.0175	0.59%	6" Rooftop	2.50%	0.5	2	0.5	0.35	14	13.97	6.0	1.15	2.07	1.79	11.97	65.74	42.83	0.61	0.18	3.75	10	11.1	0.0	00		
٧s	21+10.00	15.50	RT	100	0.74	20	10	0.8	0.34	2.4		2.4	Local	On Grade	0.0175	0.50%	6" Rooftop	2 50%	0.5	2	0.5	0.25	1.1	0.00	6.0	0.05	2.07	0.80	7 98	47.85	14 54	0.77	0.22	5 21	10	11.0	0.0	00		





CORWIN ENGINEERING, INC.
200 W. BELMONT, SUITE E ALLEN, TEXAS 75013 (972)396-1200 TBPE FIRM <b>*</b> 5951
DEVELOPMENT PLANS FOR

QUAIL HOLLOW
PHASE I
ROCKWALL, TEXAS

DRAINAGE CALCULATIONS

DRAWN BY	DESIGNED BY	CHECKED BY	SHEET NO.
			$\cap$
JOB NUMBER	DATE	SCALE: HOR: 1"=40'	
22036	FEBRUARY 2023	VER: 1"=4"	