COBIDE ENGINEERING INC

CONEX TOWNHOUSE DEVELOPMENT
37 YONGE STREET WALKERTON

DATE: August 2, 2021
DESIGNED BY: KW
CHECKED BY: TLB

STORM SEWER DESIGN SHEET
5-YEAR STORM

FILE NUMBER: 01892

I = a / ((tc + b) ^c)

a= 955.42
b= 7.82
c= 0.8071

LOCATION			DRAINAGE AREA							PIPE SELECTION					
	FROM M.H.	TO M.H.	AREA (ha)	C	A x R (ha)	ACCUM. AREA (ha)	T of C (min)	I (mm/h)	Q (m3/s)	LENGTH (m)	PIPE SIZE (mm)	SLOPE %	CAP. (FULL) (m3/s)	VEL. (FULL) (m/S)	TIME OF FLOW (min)
301	SITE	CB2	0.09	0.70	0.06	0.06	10.00	93.45	0.016	41.0	300	0.50	0.068	0.97	0.71
302	CB2	CBMH1/OGS	0.09	0.74	0.07	0.13	10.71	90.56	0.033	24.7	300	0.50	0.068	0.97	0.43
						Total	11.13								

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Subdivision: **CONEX TOWNHOUSE DEVELOPMENT 37 YONGE ST WALKERTON**
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Post Development Runoff Coefficients

	Area/Width	"C"
Townhouse Area =	~~160.0~~	~~0.90~~
Townhouse Road Width =	~~7.0~~	~~0.90~~
Half Road Width =	~~4.69~~	~~0.90~~
Townhouse Driveway Area =	~~60.0~~	~~0.90~~
Pervious Area =	N/A	0.20

AREA ID	Total Area (ha)	Houses (#)	Semis (#)	Towns (#)	Townhouse Road (m)	Road (m)	House Driveways (#)	Semi/ Town Driveways (#)	Pervious (ha)	Impervious (ha)	Balanced 'C'
301	0.093								0.027	0.067	0.70
302	0.093								0.022	0.072	0.74

Notes:
Taken from the Ministry of the Environment - Guidelines for the Design of Storm Sewers
- Pervious area has a runoff coefficient equal to 0.20