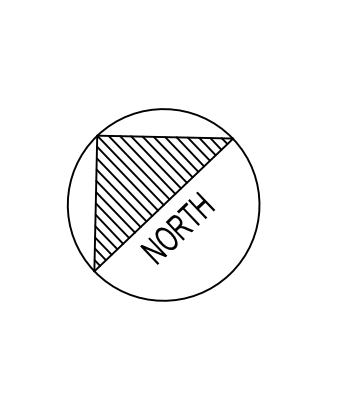
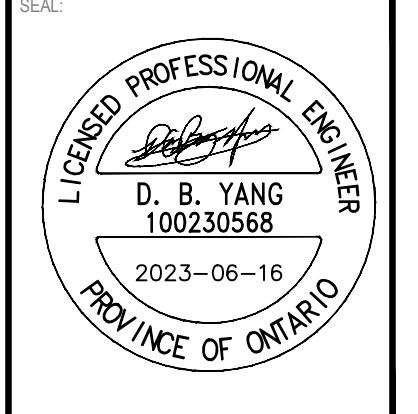




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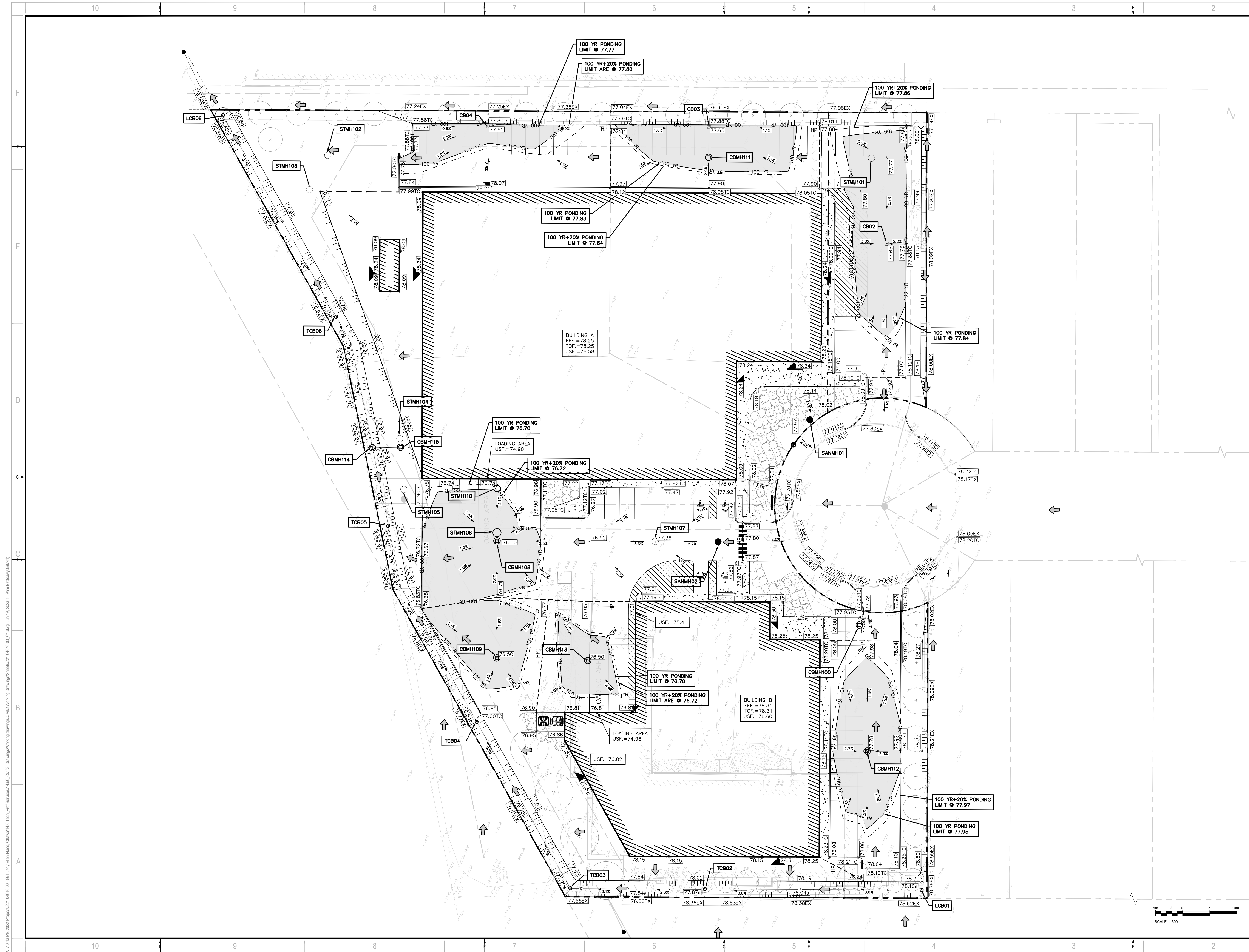
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1		2022-12-16	ISSUED FOR SPA

PROJECT NO:	221-04646-00	DATE:	JUNE 2023
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CHECKED BY:	DY		

DISCIPLINE:	CIVIL
TITLE:	REMOVAL PLAN
SHEET NUMBER:	C02
SHEET #:	2 OF 6
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DATE OF:	2023-06-16
REV #:	0

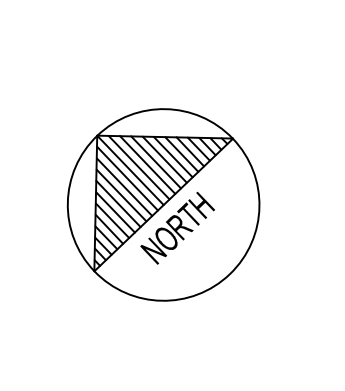
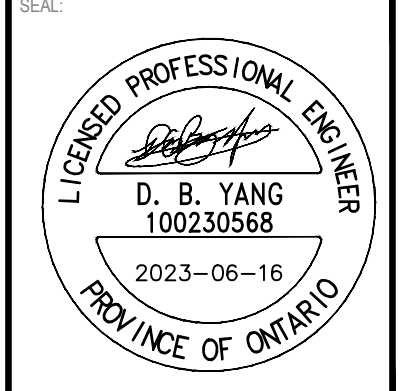
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D07-12-22-0175



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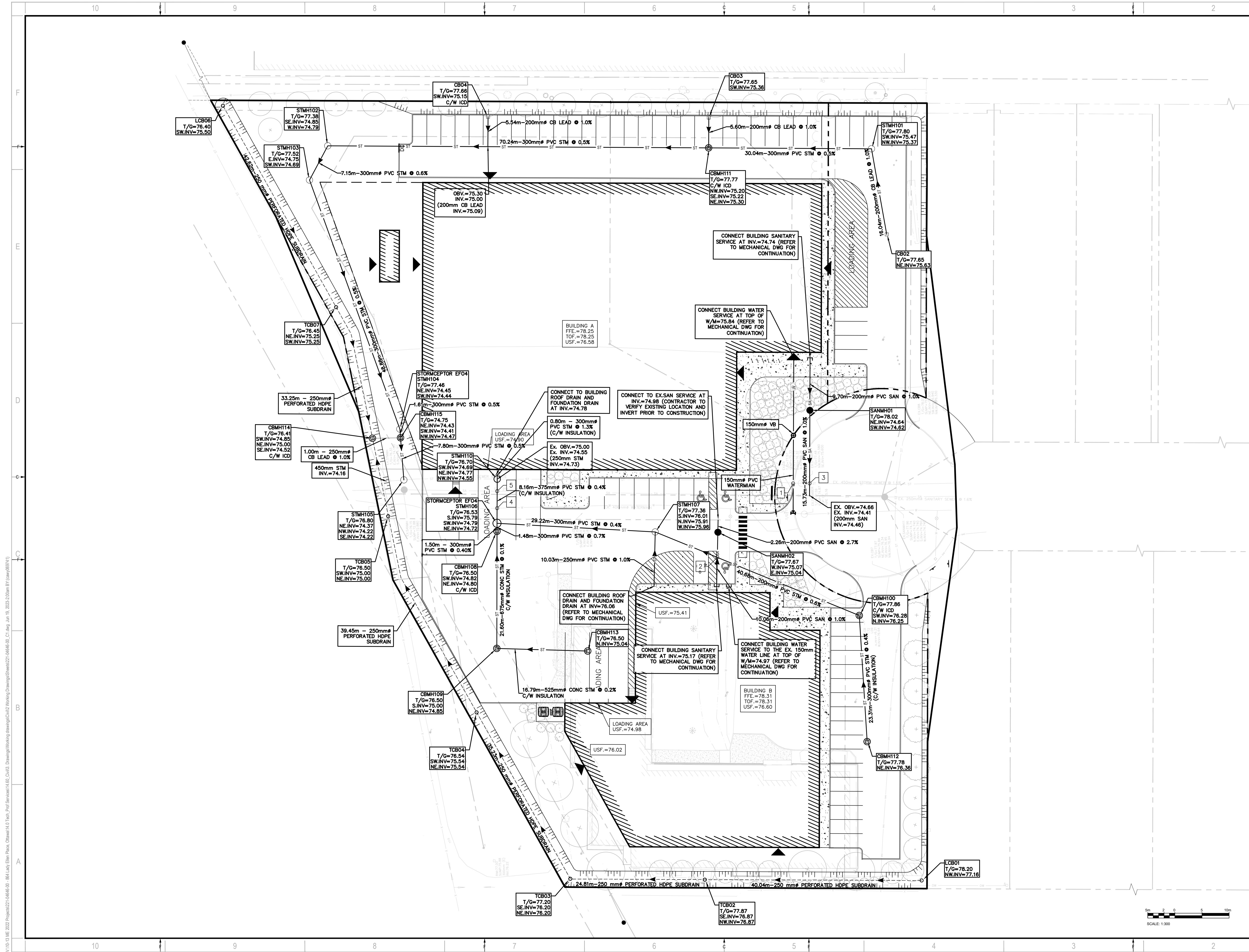
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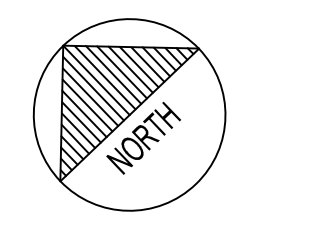
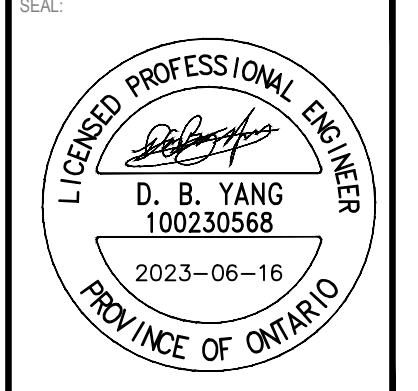
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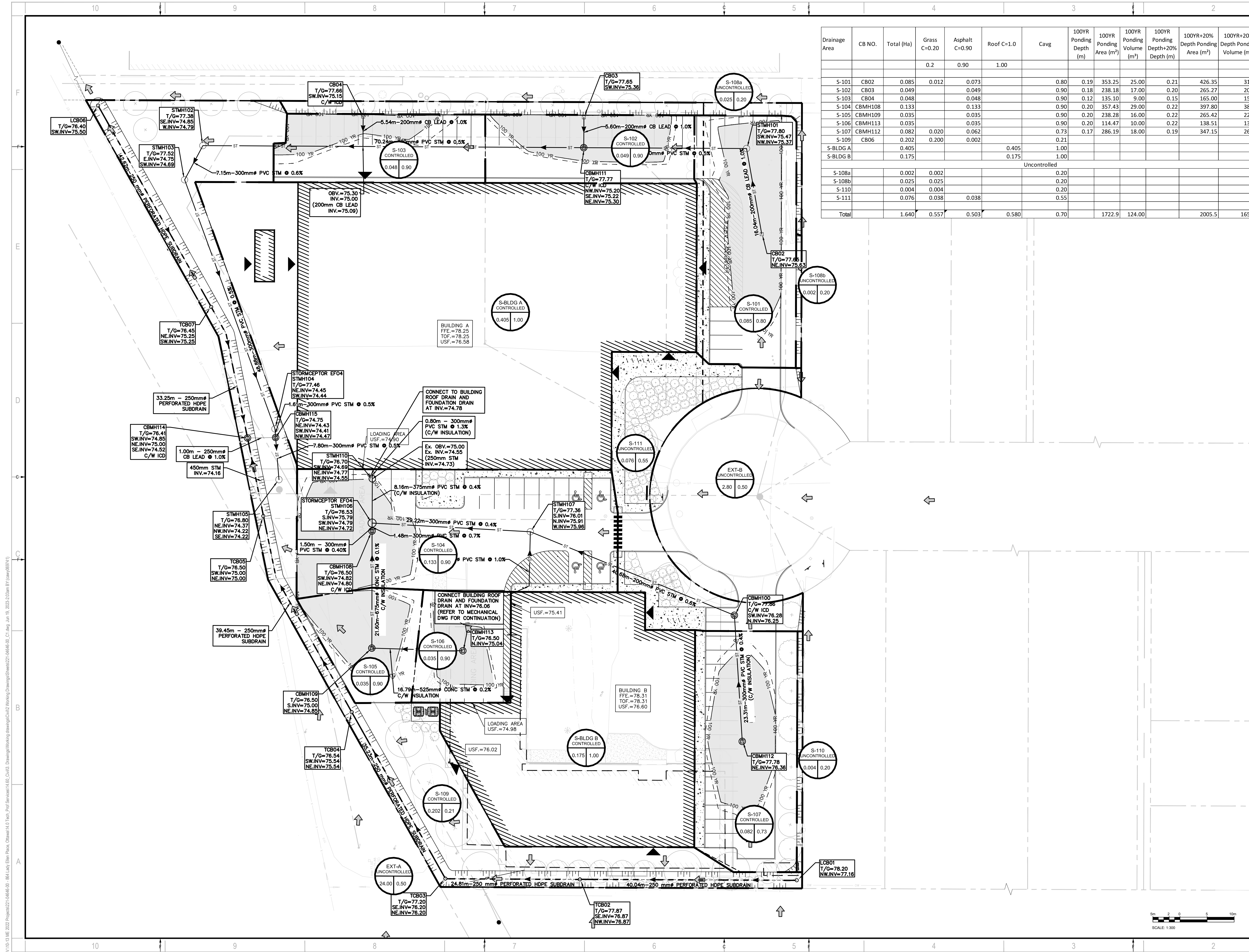
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TITLE:	SERVICING PLAN
SHEET NUMBER:	C04
SHEET #:	4 OF 6
ISSUE:	REVISED AS PER CITY COMMENTS
DATE OF:	2023-06-16
REV #:	0

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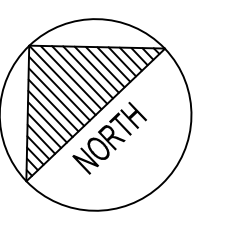


Drainage Area	CB NO.	Total (Ha)	Grass C=0.20	Asphalt C=0.90	Roof C=1.0	Cavg	100YR Ponding Depth (m)	100YR Ponding Area (m²)	100YR Ponding Volume (m³)	100YR Ponding Depth+20% (m)	100YR+20% Depth Ponding Area (m²)	100YR+20% Depth Ponding Volume (m³)
S-101	CB02	0.085	0.012	0.073		0.80	0.19	353.25	25.00	0.21	426.35	31.00
S-102	CB03	0.049		0.049		0.90	0.18	238.18	17.00	0.20	265.27	20.00
S-103	CB04	0.048		0.048		0.90	0.12	135.10	9.00	0.15	165.00	15.00
S-104	CBMH108	0.133		0.133		0.90	0.20	357.43	29.00	0.22	397.80	38.00
S-105	CBMH109	0.035		0.035		0.90	0.20	238.28	16.00	0.22	265.42	22.00
S-106	CBMH113	0.035		0.035		0.90	0.20	114.47	10.00	0.22	138.51	13.00
S-107	CBMH112	0.082	0.020	0.062		0.73	0.17	286.19	18.00	0.19	347.15	26.00
S-109	CB06	0.202	0.200	0.002		0.21						
S-BLDG A		0.405			0.405	1.00						
S-BLDG B		0.175			0.175	1.00						
Uncontrolled												
S-108a		0.002	0.002			0.20						
S-108b		0.025	0.025			0.20						
S-110		0.004	0.004			0.20						
S-111		0.076	0.038	0.038		0.55						
Total		1.640	0.557	0.503	0.580	0.70		1722.9	124.00		2005.5	165.00



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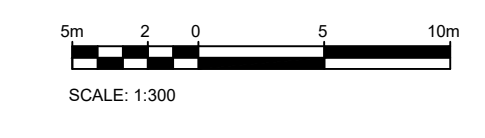


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PROJECT NO.	DATE
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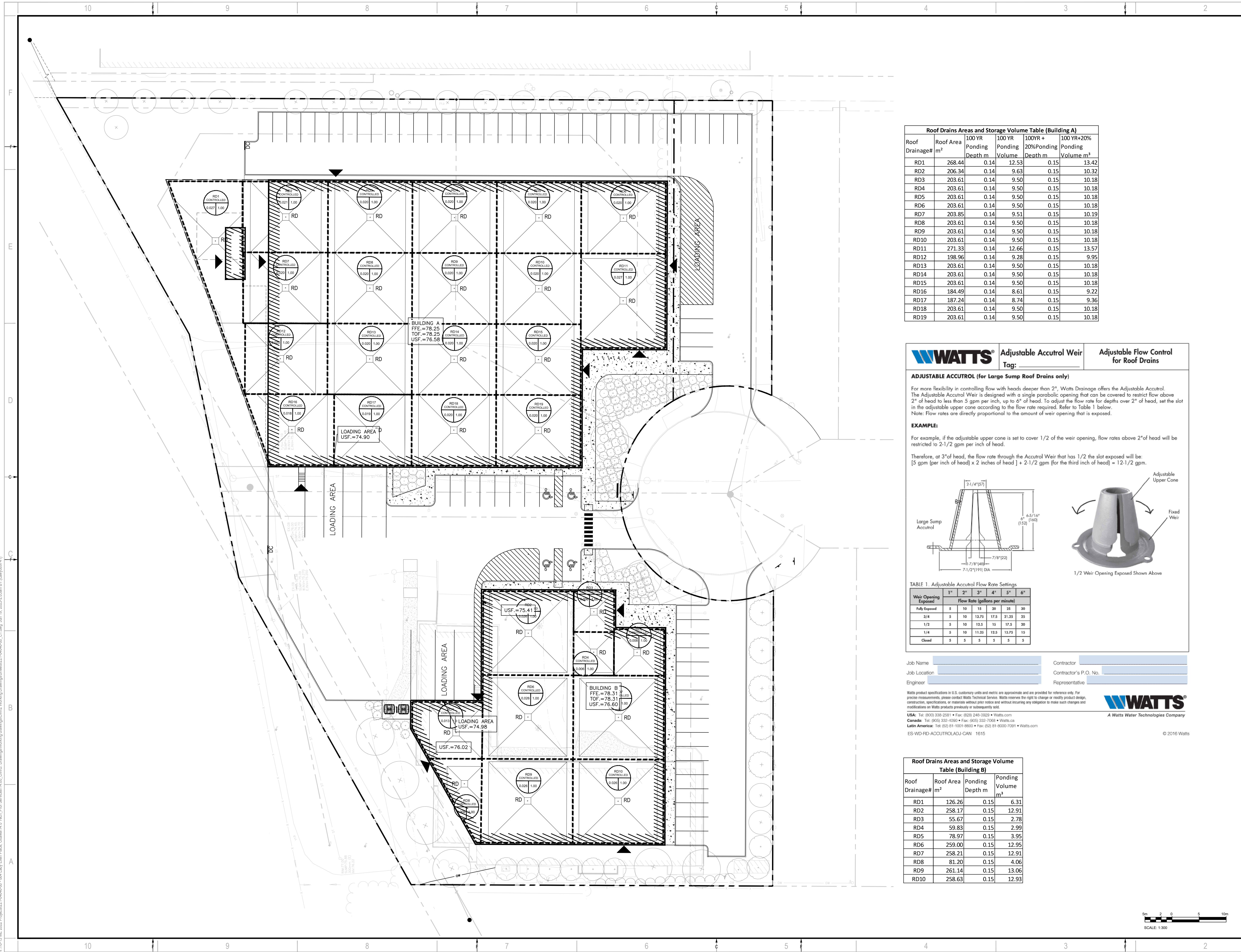
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D07-12-22-0175

#18904



Roof Drainage#	Roof Area m ²	100 YR Ponding Depth m	100 YR Ponding Volume	100YR+ 20%Ponding Depth m	100YR+20% Ponding Volume m ³
RD1	268.44	0.14	12.53	0.15	13.42
RD2	206.34	0.14	9.63	0.15	10.32
RD3	203.61	0.14	9.50	0.15	10.18
RD4	203.61	0.14	9.50	0.15	10.18
RD5	203.61	0.14	9.50	0.15	10.18
RD6	203.61	0.14	9.50	0.15	10.18
RD7	203.85	0.14	9.51	0.15	10.19
RD8	203.61	0.14	9.50	0.15	10.18
RD9	203.61	0.14	9.50	0.15	10.18
RD10	203.61	0.14	9.50	0.15	10.18
RD11	271.33	0.14	12.66	0.15	13.57
RD12	198.96	0.14	9.28	0.15	9.95
RD13	203.61	0.14	9.50	0.15	10.18
RD14	203.61	0.14	9.50	0.15	10.18
RD15	203.61	0.14	9.50	0.15	10.18
RD16	184.49	0.14	8.61	0.15	9.22
RD17	187.24	0.14	8.74	0.15	9.36
RD18	203.61	0.14	9.50	0.15	10.18
RD19	203.61	0.14	9.50	0.15	10.18

WATTS Adjustable Accutrol Weir Tag: _____ Adjustable Flow Control for Roof Drains

ADJUSTABLE ACCUTROL (for Large Sump Roof Drains only)

For more flexibility in controlling flow with heads deeper than 2", Watts Drainage offers the Adjustable Accutrol. The Adjustable Accutrol Weir is designed with a single parabolic opening that can be covered to restrict flow above 2" of head to less than 5 gpm per inch, up to 6" of head. To adjust the flow rate for depths over 2" of head, set the slot in the adjustable upper cone according to the flow rate required. Refer to Table 1 below.
 Note: Flow rates are directly proportional to the amount of weir opening that is exposed.

EXAMPLE:

For example, if the adjustable upper cone is set to cover 1/2 of the weir opening, flow rates above 2" of head will be restricted to 2-1/2 gpm per inch of head.

Therefore, at 3" of head, the flow rate through the Accutrol Weir that has 1/2 the slot exposed will be:
 [5 gpm (per inch of head) x 2 inches of head] + 2-1/2 gpm (for the third inch of head) = 12-1/2 gpm.

TABLE 1. Adjustable Accutrol Flow Rate Settings

Weir Opening Exposed	Flow Rate (gallons per minute)					
	1"	2"	3"	4"	5"	6"
Fully Exposed	5	10	15	20	25	30
3/4	5	10	13.75	17.5	21.25	25
1/2	5	10	12.5	15	17.5	20
1/4	5	10	11.25	12.5	13.75	15
Closed	5	5	5	5	5	5

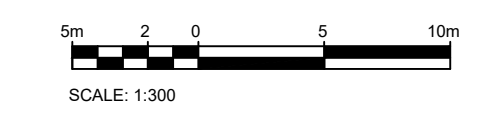
Job Name: _____ Contractor: _____
 Job Location: _____ Contractor's P.O. No.: _____
 Engineer: _____ Representative: _____

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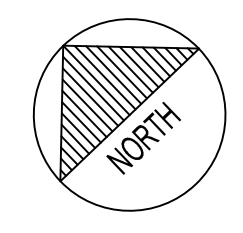
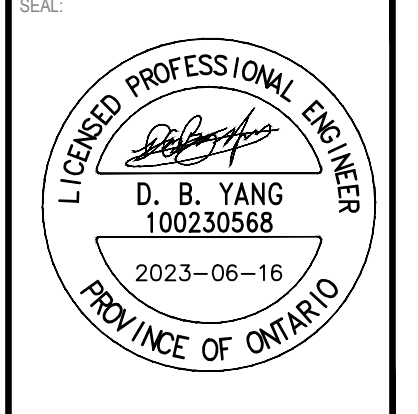
ES-WD-RD-ACCUTROL-ADJ-CAN 1615 © 2016 Watts

Roof Drainage#	Roof Area m ²	Ponding Depth m	Ponding Volume m ³
RD1	126.26	0.15	6.31
RD2	258.17	0.15	12.91
RD3	55.67	0.15	2.78
RD4	59.83	0.15	2.99
RD5	78.97	0.15	3.95
RD6	259.00	0.15	12.95
RD7	258.21	0.15	12.91
RD8	81.20	0.15	4.06
RD9	261.14	0.15	13.06
RD10	258.63	0.15	12.93



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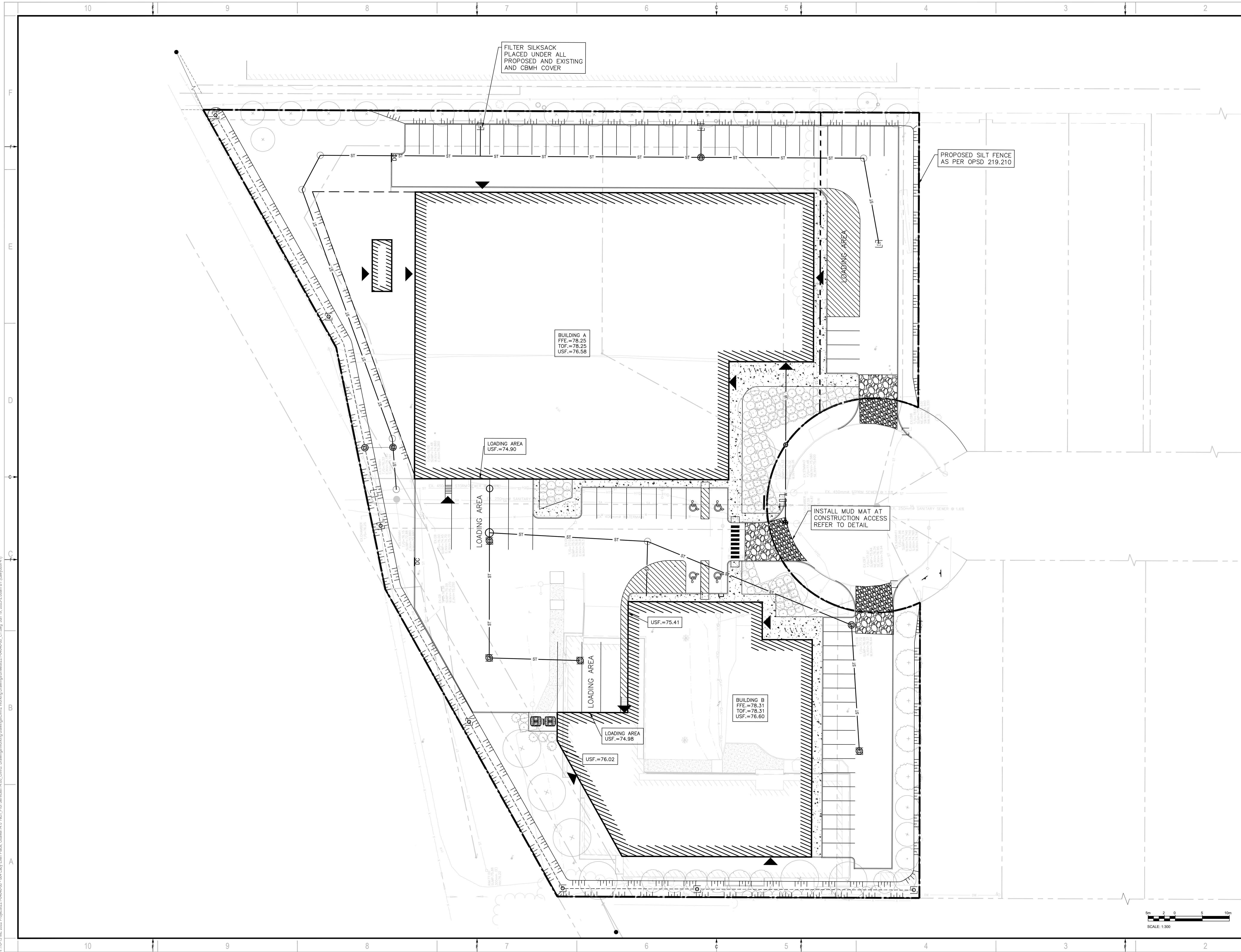
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 TITLE: ROOF DRAINAGE AREA PLAN

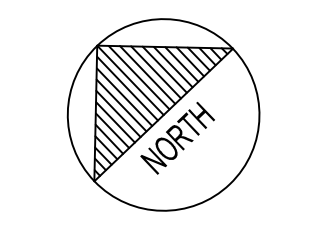
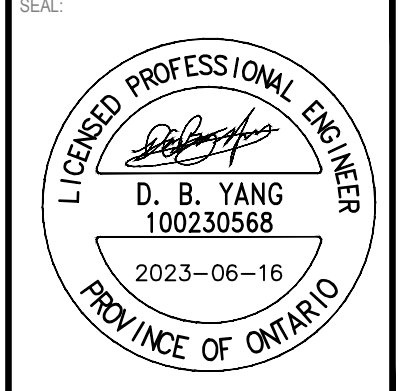
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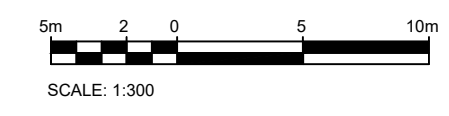
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SHEET NUMBER:	C06		
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