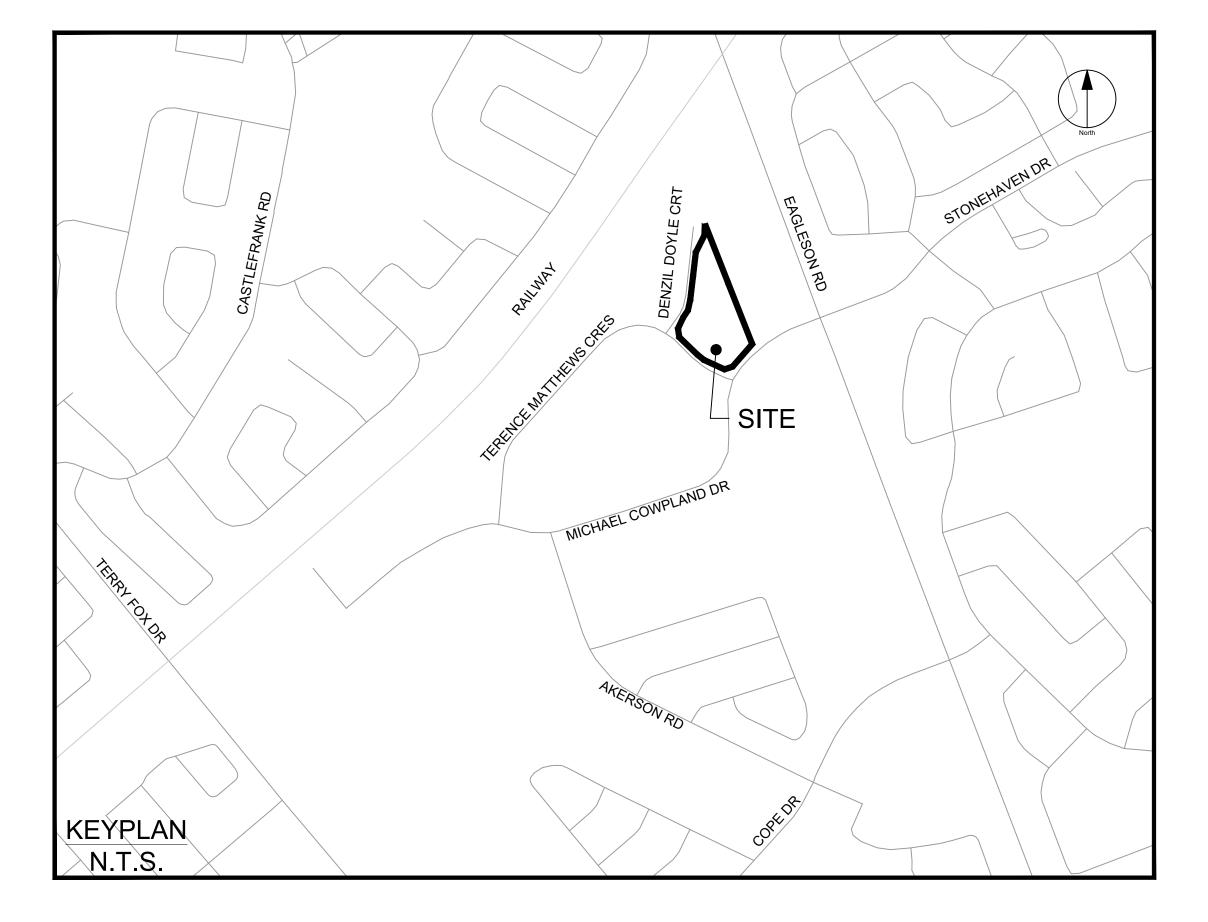
IBI GROUP 400 – 333 Preston Street Ottawa ON K1S 5N4 Canada tel 613 225 1311 fax 613 225 9868 ibigroup.com

PROPOSED SELF STORAGE DEVELOPMENT HUNTINGTON PROPERTIES



75 MICHAEL COWPLAND CITY OF OTTAWA

CONTRACT NO. 135470

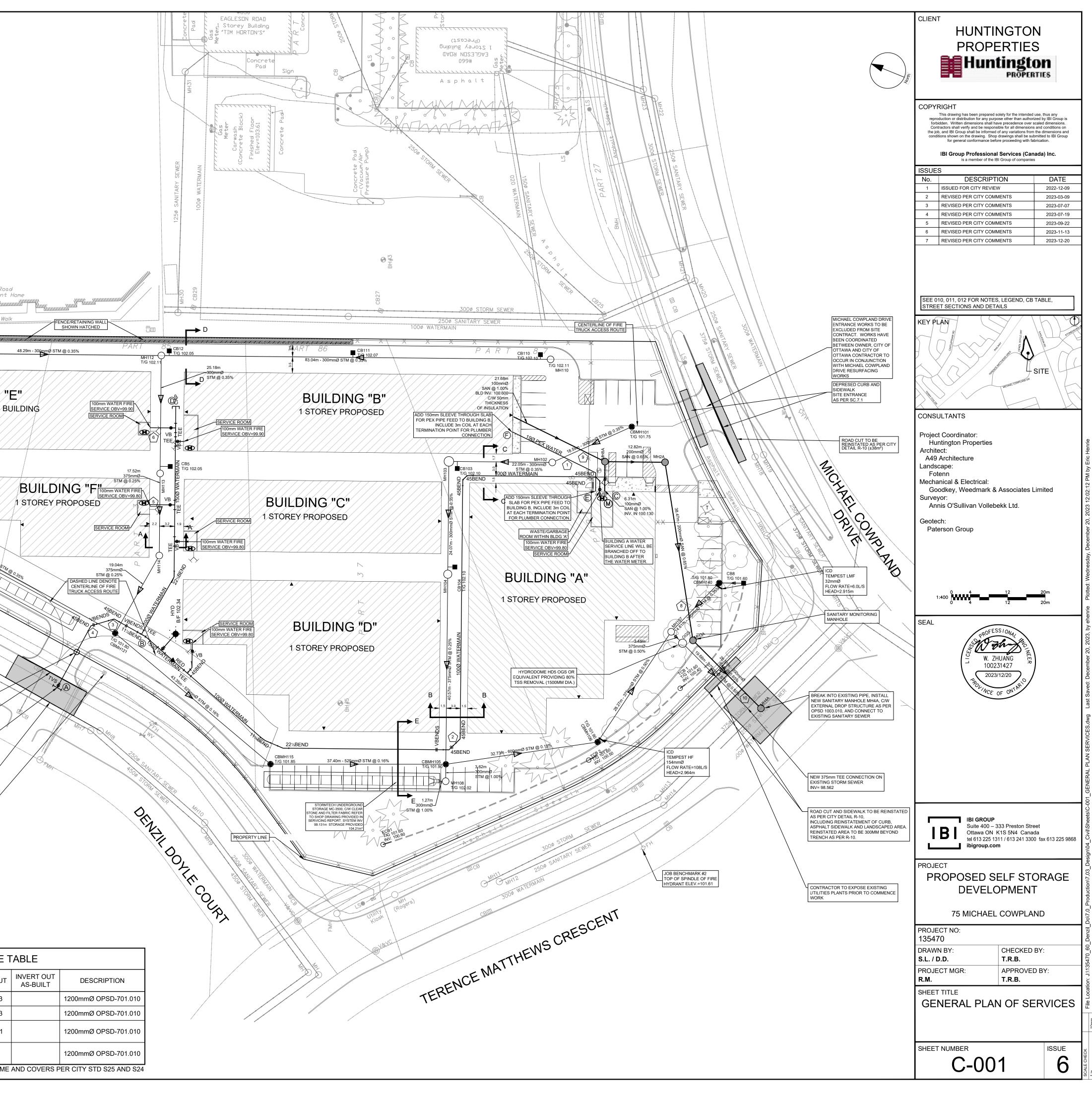
Sheet List Table						
Sheet Number	Sheet Title					
C-001	GENERAL PLAN OF SERVICES					
C-010	DETAILS AND NOTES					
C-011	CROSS SECTIONS					
C-200	GRADING PLAN					
C-500	STORM DRAINAGE AREA PLAN					
C-600	PONDING PLAN					
C-900	SEDIMENT - EROSION PLAN					

-12-22-0174 D07 No CITY 18885 PLAN NO. CITY

2023-12-19

REVISED PER CITY COMMENTS

	ARD (B) 4 OF AS S DETAIL 4/A102	SHOWN.									
NEW PRIVAT	TE FIRE HYDRAN	т	1500	BUILDING	6 "D"					1	
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	,	Sewer Sewer				Watermain Storm Sever Sanitary Sev					
		150mm Sanitary Sewer 3.15mm Storm Sewer				200mm W 375mm St 100mm Sc					
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	PART 82					A Matumun	mmmill.				Asphalt Wal
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PART	81	PART 8				In Concert	PAR	<u>677777</u> 777 84	MH111		2111,2211, 30 102.07
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20	Omm Sanitary	Sewer HHA		FENCE/RETAIL SHOWN/HA	NING WALL						
	300mm Storm	Sewer MAZ	2508 SANIT	MaTERMAN	VICHED						
Line Cos			ORM S	EWER			2.4 300mr	nØ—			
Hydro U	C C	JOB BENCI Top of Spir Hydrant El	ndle of Fire	E -			STM @ 1.0		CBMH120 TIG 101.75		
			150mm We	300mm storm some	MIT 3	£	2.0		F		
				300mm Ste 250 ml		3750 STORM SEWER	STM@1.00	100-			
					СВШ	3750 STORM SEWER	WV		F		58.70m-300000 STM
						STORMTECH UNDERGROUN STORAGE MC-3500, CW CLEA		\sim			
						STORAGE MC3500, CW CLEX STONE AND FILTER FABR REFER TO SHOP DRAWIN PROVIDED IN SERVICIN REPORT. SYSTEM INV 99.600 STORAGE PROVIDED 135.13	IC 11/1/5	~ ~ ~ ~	3000		
									300s WATES 250s SANITAS	RMAIN	
										SEWER	
										375ø S	Total
											ORM SEWER
											\searrow
		S	TM STRU	JCTURE TA	ABLE]		MON CHAME	NITORING VALVE	
NAME	RIM ELEV.	INVERT IN		INVERT OUT	INVERT OUT	DESCRIPTION	-	DE	PRESSED CURB SIT	E ENTRANCE AS PER SC.7.1	
CBMH101	101.75		AS-BUILT	NW99.476	AS-BUILT	1200mmØ OPSD-701.010	-		ISTING 300Ø WATE		
CBMH105	101.90	E99.038 N98.998		SE98.978		1500mmØ OPSD-701.011	1	EX	CAVATE, BACKFILL	AND REINSTATE ON OBV= ±98.055	
		W99.038					_				
CBMH106 CBMH115	101.91 101.87	NW98.929 N99.088		E98.899 S99.058		1200mmØ OPSD-701.010 1200mmØ OPSD-701.010	-		ROAD CUT TO AS PER C	BE REINSTATED CITY DETAIL R-10 (±60m²)	_ /
CBMH120	101.75	W99.413		S99.383		1200mmØ OPSD-701.010		Г	BELL PEDESTAL TO	BE RELOCATED	
CBMH121	101.80	N99.177 E99.217		S99.157		1200mmØ OPSD-701.010		L			
CBMH140	101.81	S99.152		W98.884		1200mmØ OPSD-701.010					
MH102	102.10	SE99.411		N99.381		1200mmØ OPSD-701.010	-				
MH103 MH104	102.19 102.19	S99.304 E99.159		W99.244 W99.139		1200mmØ OPSD-701.010 1200mmØ OPSD-701.010	-				
MH107	102.16	W98.758 E98.833		SW98.698		1200mmØ OPSD-701.010	1				
MH108	102.02	E98.833 N99.134		E99.074		1200mmØ OPSD-701.010	┨┌───			<u></u>	
MH109	101.88	S99.468		E99.438		1200mmØ OPSD-701.010	1	1	1	1	
MH110 MH111	102.11 102.14			N99.787 S99.666		1200mmØ OPSD-701.010 1200mmØ OPSD-701.010	NAME	RIM ELEV.	INVERT IN	INVERT IN AS-BUILT	INVERT OUT
MH111 MH112	102.14	N99.497		W99.437		1200mmØ OPSD-701.010 1200mmØ OPSD-701.010	MH2A	102.11	N99.773		SW99.713
MH113	102.11	S99.497 E99.349		W99.437 W99.329		1200mmØ OPSD-701.010	MH3A MH4A	101.98	NE99.463 NE99.300		SW99.433 NW98.021
MH114	102.17	E99.285		W99.265		1200mmØ OPSD-701.010	1		SE98.298 W100.067		
OGS	102.05	NE98.680		SW98.660		1500mmØ OPSD-701.011	MH8A	102.10	N100.384		S99.857
			MANH	IOLE FRAME AN	D COVERS PE	R CITY STD S25 AND S24.1				MA	



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 Plotted: Wednesday, December 20, 2023, by ehenrie

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 CITY PLAN
 NO_ 18885
 CITY FILE
 NO_ 07-12-22-0174

GENERAL LEGEND FAIRHALL, MOFFATT & WOODLAND LIMITED LEGEND LIMIT OF CONSTRUCTION PHASING LINE BARRIER CURB - MOUNTABLE CURB DEPRESSED BARRIER CURB CONCRETE SIDEWALK CONCRETE SIDEWALK - TACTILE WALKING SURFACE INDICATOR ASPHALT SIDEWALK / PATHWAY SPHALT SIDEWALK BUS BUS STOP CONCRETE / ASPHALT SERVICING L

<u>SERVICING L</u>	EGEND
MH118A	SANITARY MANH
MH118A	WATERTIGHT SA
200mmØ SAN	SANITARY SEW
МН109 О МН118	STORM MANHO
825mmØ STM	STORM SEWER
900mmØ STM	STORM SEWER
200Ø WATERMAIN	WATERMAIN
CB100	STREET CATCH
T/G 104.10 CICB101	CURB INLET CA
G/G 104.25 DCB100	DOUBLE CATCH
T/G 104.10 DCICB101	DOUBLE CURB I
G/G 104.25	DITCH INLET MA
CBMH101	CATCHBASIN MA
T/G 103.59 🛡	REAR YARD CAT
T/G 104.35	C/W SOLID GRA
-0 ^{T/G} 104.35 INV 103.35	REAR YARD "TEI AND INVERT OU
e ^{T/G} 104.50 NV 103.50	REAR YARD "EN AND INVERT OU
T/G 104.35 INV 103.35	REAR YARD "CU GRATE AND INV
T/G 104.35 INV 103.35	REAR YARD "TH GRATE AND INV
300mmØ CSP	PERFORATED R
	CSP CULVERT C
	WATERMAIN TE
TVS	TAPPING VALVE
8 ^{VB}	VALVE AND VAL
⊗ ^{V&VC}	VALVE AND VAL
-+	PARK VALVE CH
HYD 104.35	FIRE HYDRANT
200Ø WM RED 150Ø WM	WATERMAIN RE
2 VBENDS	VERTICAL BEND
\$	SIAMESE CONN
M	METER (IF REQU
RM	REMOTE METER
(A)	WATERMAIN IDE
(1)	PIPE CROSSING
\triangleleft	SINGLE SERVIC
\triangleleft	DOUBLE SERVIC
BH 12 102.00	INFERRED REFL
HGL 101.79	100 YEAR STOR
USF 101.79	UNDERSIDE OF
101.79	CLAY SEAL IN S
60	PRESSURE RED

EGEND
SANITARY MANHOLE
WATERTIGHT SANITARY MANHOLE
SANITARY SEWER
STORM MANHOLE
STORM SEWER - LESS THAN 900Ø
STORM SEWER - 900Ø AND GREATER
WATERMAIN
STREET CATCHBASIN C/W TOP OF GRATE
CURB INLET CATCHBASIN C/W GUTTER GRADE
DOUBLE CATCHBASIN C/W TOP OF GRATE
DOUBLE CURB INLET CATCHBASIN C/W GUTTER GRADE
DITCH INLET MANHOLE C/W TOP OF GRATE
CATCHBASIN MANHOLE C/W TOP OF GRATE
REAR YARD CATCHBASIN IN ROAD CONNECTING STRUCTURE C/W SOLID GRATE
REAR YARD "TEE" CATCHBASIN (300Ø) C/W TOP OF GRATE AND INVERT OUT
REAR YARD "END" CATCHBASIN (300Ø) C/W TOP OF GRATE AND INVERT OUT
REAR YARD "CUSTOM ANGLED " CATCHBASIN (450Ø) C/W TOP OF GRATE AND INVERT OUT
REAR YARD "THREE WAY" CATCHBASIN (450Ø) C/W TOP OF GRATE AND INVERT OUT
PERFORATED REAR YARD SUBDRAIN
CSP CULVERT C/W DIAMETER
WATERMAIN TEE CONNECTION
TAPPING VALVE SLEEVE
VALVE AND VALVE BOX
VALVE AND VALVE CHAMBER
PARK VALVE CHAMBER C/W SERVICE POST
FIRE HYDRANT C/W BOTTOM OF FLANGE ELEVATION
WATERMAIN REDUCER
VERTICAL BEND LOCATION
SIAMESE CONNECTION (IF REQUIRED)
METER (IF REQUIRED)
REMOTE METER (IF REQUIRED)
WATERMAIN IDENTIFICATION (IF REQUIRED)
PIPE CROSSING IDENTIFICATION (IF REQUIRED)
SINGLE SERVICE LOCATION
DOUBLE SERVICE LOCATION
INFERRED REFUSAL (SEE GEOTECHNICAL REPORT)
100 YEAR STORM HYDRAULIC GRADE LINE AT MANHOLE
UNDERSIDE OF FOOTING ELEVATION
CLAY SEAL IN SEWER / WATERMAIN TRENCH
PRESSURE REDUCING VALVE

Ш СВ	 CATCH BASIN MANHOLE BELL MANHOLE WATER MANHOLE HYDRO MANHOLE TRAFFIC MANHOLE TRAFFIC HANDHOLE FIBRE OPTIC MANHOLE LAMP STANDARD
O MH	- MANHOLE
🔘 вмн	- BELL MANHOLE
O WMH	- WATER MANHOLE
🔾 нмн	- HYDRO MANHOLE
🔿 тмн	- TRAFFIC MANHOLE
🗌 ТНН	- TRAFFIC HANDHOLE
O FMH	- FIBRE OPTIC MANHOLE
US LO	- LAMP STANDARD
⊗ UP	- UTILITY POLE
M WV	- WATER VALVE
ໍ ¢ FH	- FIRE HYDRANT
🕑 BH	- BOREHOLE
	- BELL PEDESTAL
	- TRAFFIC LIGHT
🖾 TCB	
BB	- BELL BOX
\leftarrow	- GUY WIRE AND ANCHOR
•	- BOLLARD
	- SIGN
~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	- CONIFEROUS TREE
$\odot$	- DECIDUOUS TREE
V¥	- WATERMAIN
	- OVERHEAD UTILITY WIRES
—UH—	- UNDERGROUND HYDRO
—UB—	- UNDERGROUND BELL
— G—	- GAS MAIN
—ST—	- STORM SEWER
—S—	- SANITARY SEWER
	- CURB
— UC — — F —	- UNDERGROUND ROGERS CABLE
	- FIBRE OPTICS

	STORM	STRUCTURE	FRAME & COVER	ELEVATION			OUTLET PIPE		INLET CONTROL DEVICE				
II STRUCTURE ID I				TOP OF GRATE	INVERT		DIAMETER		100yr	RESTRICTED		ORIFICE SIZE	COMMENTS
	AREA ID				INLET	OUTLET	(mm)	ТҮРЕ	Dynamic HEAD	(I/s)	ICD TYPE	CIRCULAR (mm dia.)	
CB5	MH113	OPSD 705.010	S19	102.05		100.650	200	PVC DR35	1.650				
CB8	CBMH140	OPSD 705.010	S19	101.60		100.200	200	PVC DR35	1.650				
CB12	MH112	OPSD 705.010	S19	102.05		100.650	200	PVC DR35	1.650				
CB103	CB103	OPSD 701.010	S28.1	102.10		100.700	200	PVC DR35	1.500				
CB104	CB104	OPSD 701.010	S28.1	102.10		100.700	200	PVC DR35	1.500				
CB110	MH110	OPSD 705.010	S19	102.10		100.700	200	PVC DR35	1.650				
CB111	MH110B	OPSD 705.010	S19	102.07		100.670	200	PVC DR35	1.650				
CB130	MH111	OPSD 705.010	S19	102.07		100.670	200	PVC DR35	1.650				
CBMH101	CBMH101	OPSD 701.010	S28.1	101.75		99.476	300	PVC DR35	2.424				
CBMH105	CBMH105	OPSD 701.010	S28.1	101.90	99.038	98.978	600	PVC DR35	3.222				
CBMH106	CBMH106	OPSD 701.010	S28.1	101.90	98.929	98.899	375	PVC DR35	3.189	108.00	CUSTOM IPEX HF	157	
CBMH115	CBMH115	OPSD 701.010	S28.1	101.85	99.088	99.058	525	PVC DR35	3.054				
CBMH120	CBMH120	OPSD 701.010	S28.1	101.75	99.413	99.383	300	PVC DR35	2.517				
CBMH121	CBMH121	OPSD 701.010	S28.1	101.80	99.217	99.157	525	PVC DR35	2.906				
CBMH140	CBMH140	OPSD 701.010	S28.1	101.80	99.152	98.884	300	PVC DR35	3.066	6.00	CUSTOM IPEX LMF	32	

	Pipe Interfe	rence Table	
Crossing No.	PIPE 1	PIPE 2	Clearance
	STM Bottom 99.350	WM Top 98.850	0.500
2	STM Bottom 98.970	WM Top 98.467	0.503
3	STM Bottom 99.148	WM Top 98.648	0.500
4	STM Bottom 99.122	WM Top 98.622	0.500
5	WM Bottom 100.671	STM Top 99.763	0.908
6	WM Bottom 100.253	STM Top 99.753	0.501
8	SAN Bottom 99.494	STM Top 99.221	0.273
9	SAN Bottom 100.438	STM Top 99.804	0.634
10	SAN Bottom 99.307	STM Top 99.010	0.296

		WATERMA	IN SCHEDULE		
	Station	Description	Finished Grade	Top of Waterain	As Built Waterair
А	0+000.00	TVS	<u>+</u> 102.024	<u>+</u> 98.06	
	0+008.67	MON CHAMBER	102.08	99.68	
	0+015.05	45 BEND	101.90	99.50	
	0+015.52	VBEND	101.88	99.48	
	0+015.77	VBEND	101.87	98.62	
	0+020.18	45 BEND	101.88	98.64	
	0+023.03	VBEND	101.88	98.65	
	0+023.28	VBEND	101.88	99.48	
В	0+026.88	TEE	101.95	99.55	
	0+027.88	11 BEND	101.99	99.59	
	0+032.32	HY DRAINT TEE	102.08	99.68	
	0+036.21	RED 150 - 100	102.10	99.70	
	0+039.72	BLD D SERVICE TEE	102.06	99.66	
	0+061.70	11 BEND	101.99	99.59	
	0+065.80	22 BEND	102.09	99.69	
	0+098.44	VBEND	102.08	99.68	
	0+098.69	VBEND	102.09	98.47	
	0+101.22	45 BEND	101.98	98.47	
	0+101.85	VBEND	102.01	98.47	
	0+102.10	VBEND	102.05	99.65	
	0+104.56	45 BEND	102.19	99.79	
	0+159.83	45 BEND	102.20	99.80	
	0+161.13	45 BEND	102.20	99.80	
	0+188.56	45 BEND	102.38	99.98	
	0+189.80	45 BEND	102.41	99.61	
	0+191.60	VB	102.44	99.61	
С	0+192.02	CAP	102.32	99.61	
В	0+000.00	TEE	101.95	99.55	
D	0+000.00	22.5 BEND	101.95	99.55 99.81	
	0+014.06	BLD C SERVICE TEE	102.21	99.81	
	0+021.00	BLD C SERVICE TEE BLD F SERVICE TEE	102.21	99.81	
	0+029.46	BLD F SERVICE TEE BLD E SERVICE TEE	102.22	99.82 99.80	
	0+045.88	BLD B SERVICE TEE	102.23	99.83	
D	0+050.50	CAP	102.23	99.83	
Е	0+000.00	BLDG A	102.37	99.61	
	0+003.91	BEND	102.20	99.80	
	0+011.48	CROSSING	102.04	98.84	
F	0+023.68	BLDG B	102.41	100.01	

#### NOTES :

- 1. ALL MATERIALS AND CONSTRUCTION IS TO BE IN ACCORDANCE WITH THE CURRENT CITY OF OTTAWA STANDARD DRAWINGS & SPECIFICATIONS OR OPSD/OPSS IF CITY DRAWINGS AND SPECIFICATIONS DO NOT APPLY.
- 2. THE POSITION OF UNDERGROUND AND ABOVEGROUND SERVICE, UTILITIES AND STRUCUTRES ARE NOT NECESSARILY SHOWN ON THE CONTRACT DRAWINGS, AND WHERE SHOWN, THE ACCURACY OF THE POSITION OF SUCH SERVICE, UTILITIES AND STRUCTURES IS NOT GUARENTEED. THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE EXACT LOCATION, SIZE, MATERIAL AND ELEVATION OF ALL EXISTING SERVICES AND UTILITIES PRIOR TO CONSTRUCTION.
- 3. THE CONTRACTOR SHALL REPORT ALL CONFLICTS, DISCOVERIES OF ERROR AND DESCREPENCIES TO THE ENGINEER.
- 4. THE CONTRACTOR SHALL BE RESPONSIBLE TO PROTECT AND ASSUME RESPONSIBILITY FOR ALL UTILITIES WHETHER OR NOT SHOW ON THESE DRAWINGS.
- 5. THE CONTRACTOR SHALL BE RESPONSIBLE TO PROTECT ALL LANDS BEYOND THE SITE LIMITS. ANY AREAS BEYOND THE SITE LIMITS, WHICH ARE DISTURBED DURING CONSTRUCTION, SHALL BE REPAIRED AND RESTORED TO ORIGINAL CONDITION OR BETTER, TO THE SATISFACTION OF THE ADJACENT LAND OWNER, THE OWNER, THE OWNERS REPRESENTATIVES AND/OR THE AUTHORITY HAVING JURSIDICTION AT THE EXPENSE OF THE CONTRACTOR.
- 6. WHERE NECESSARY, THE CONTRACTOR SHALL IMPLEMENT A TRAFFIC MANAGEMENT PLAN TO THE SATISFACTION OF THE CITY OF OTTAWA. ALL CONSTRUCTION SIGNAGE MUST CONFORM TO THE LATEST VERSION OF THE M.T.O. MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES. ALL TEMPORARY TRAFFIC CONTROL MEASURES MUST BE REMOVED UPON THE COMPLETION OF THE WORKS.
- 7. SHOULD ANY BURIED ARCHAEOLOGICAL REMAINS BE FOUND ON THE PROPERTY DURING CONSTRUCTION ACTIVITIES, THE CONTRACTOR SHALL NOTIFY THE OWNER TO CONTACT THE HERITAGE OPERATIONS UNIT OF THE ONTARIO MINISTRY OF CULTURE MUST BE NOTIFIED IMMEDIATE, AND WORK WITHIN THE AREA SHALL BE CEASED UNTIL FUTHER NOTICE.
- 8. FOR GEOTECHNICAL INFORMATION REFER TO GEOTECHNICAL REPORT PG3798-2 REV2 DATED NOV 23, 2022 PREPARED BY PATERSON GROUP. 9. FOR GEODETIC BENCHMARK AND GEOMETRIC LAYOUT OF STREET AND LOTS, REFER TO TOPOGRAPHICAL
- SURVEY AND PLAN OF SUBDIVISION PREPARED BY ANNIS, O'SULLIVAN, VOLLEBEKK LTD. BENCHMARK BASED ON CAN--NET VIRTUAL REFERENCE SYSTEM NETWORK.
- 10. FOR SITE PLAN INFORMATION, REFER TO SITE PLAN PREPARED BY A49 ARCHITECTURE 11. THESE DRAWINGS ARE NOT TO BE SCALED OR USED FOR LAYOUT PURPOSES
- 12. ROADWAY SECTIONS REQUIRING GRADE RAISE TO PROPOSED SUB GRADE LEVEL TO BE FILLED WITH ACCEPTABLE NATIVE EARTH BORROW OR IMPORTED OPSS SELECTED SUBGRADE MATERIAL IF NATIVE MATERIAL IS DEFICIENT AS PER RECOMMENDATION OF GEOTECHNICAL ENGINEER.
- 13. IN AREAS WHERE EXISTING GROUND IS BELOW THE PROPOSED ELEVATION OF SEWER AND WATERMAINS, GRADE RAISING AND FILLING IS TO BE IN ACCORDANCE WITH THE RECOMMENDATIONS OF THE GEOTECHNICAL REPORT. AS PER CITY GUIDELINES ALL WATERMAINS IN FILL AREAS ARE TO BE TIED WITH RESTRAINING JOINTS AND THRUST BLOCKS.
- 14. REFER TO DRAWING C-011 FOR CROSS SECTIONS.
- 15. THE CONTRACTOR SHALL IMPLEMENT THE EROSION AND SEDIMENT CONTROL PLAN PRIOR TO THE COMMENCEMENT OF ANY SITE CONSTRUCTION. ALL EROSION AND SEDIMENT CONTRAL MEASURES SHALL BE INSTALLED TO THE SATISFACTION OF THE ENGINEER, OR ANY REGULATORY AGENCY. ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE MAINTAINED UNTIL VEGETATION IS ESTABLISH OR UNTIL THE START OF A SUBSEQUENT PHASE.
- 16. CONTRACTORS SHALL BE RESPONSIBLE FOR KEEPING CLEAN ALL ROADS WHICH BECOME COVERED IN DUST, DEBRIS AND/OR MUD AS A RESULT OF ITS CONSTRUCTION OPERATIONS. 17. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY ADDITIONAL BEDDING OR ADDITIONAL STRENGTH PIPE
- SHOULD THE MAXIMUM OPSD TRENCH WIDTH BE EXCEEDED.
- 18. ALL PIPE, CULVERTS, STRUCTURES REFER TO NOMINAL INSIDE DIMENSIONS.
- 19. SHOULD CLAY SEALS BE REQUIRED, THEY SHALL BE INSTALLED AS PER THE RECOMMENDATIONS WITHIN THE GEOTECHNICAL REPORT.
- 20. UNLESS SPECIFICALLY NOTED OTHERWISE, PIPE MATERIALS SHALL BE AS FOLLOWS; -WATERMAINS TO BE PVC DR18 -SANITARY SEWER TO BE PVC DR35 -PERFORATED STORM SEWERS IN REAR YARDS AND LANDSCAPE AREAS TO BE HDPE -STORM SEWERS 375MM DIAMETER AND LESS TO BE PVC DR35 -STORM SEWERS 450MM DIAMETER AND GREATER TO BE CONCRETE, CLASS AS PER OPSD 807.010 OR 807.030, OR HIGHER
- 21. ALL CONNECTIONS TO EXISTING WATERMAINS ARE TO BE COMPLETED BY CITY FORCES. CONTRACTOR IS TO EXCAVATE, BACKFILL, COMPACT AND REINSTATE.
- 22. ANY WATERMAIN WITH LESS THAN 2.4M, AND ANY SEWER WITH LESS THAN 2.0M DEPTH OF COVER REQUIRES THERMAL INSULATION AS PER CITY OF OTTAWA STANDARD W22 AND W35, OR AS APPROVED BY THE ENGINEER.
- 23. ALL FIRE HYDRANTS AS PER CITY STANDARD W19, c/w 150mmØ LEAD UNLESS OTHERWISE SPECIFIED. 24. ALL STUBBED SEWERS SHALL HAVE PRE-MANUFACTURED CAPS INSTALLED.
- 25. ALL CATCHBASINS SHALL HAVE A 600MM SUMP. ALL CATCHBASIN MANHOLES, AND ALL STORM MANHOLES WITH OUTLETTING PIPE SIZES LESS THAN 900MM, SHALL HAVE A 300MM SUMP.
- 26. ALL SANITARY MANHOLES SHALL BE EQUIPPED WITH A WATERTIGHT COVER. 27. ALL LEADS FOR STREET CATCHBASIN'S AND CURB INLET CATCHBASIN'S CONNECTED TO MAIN SHALL BE 200MMØ PVC DR35 @ MIN 2% SLOPE UNLESS NOTED OTHERWISE. ALL LEADS FOR RYCB'S CONNECTED TO MAIN SHALL BE 200MMØ PVC DR35 @ MIN 1% SLOPE UNLESS NOTED OTHERWISE.
- 28. UNLESS SPECIFICALLY NOTED OTHERWISE, ALL STREET CATCHBASINS SHALL BE INSTALLED WITH TWO 3.0M MINIMUM SUBDRAINS INSTALLED LONGITUDINALLY, PARALLEL WITH THE CURB. ALL CATCHBASINS IN ASPHALT AREAS, NOT ADJACENT TO A CURB, SHALL BE INSTALLED WITH FOUR - 3.0M MINIMUM SUBDRAINS INSTALLED ORTHOGONALLY.
- 29. INLET CONTROL DEVICES SHALL BE INSTALLED PRIOR TO COMPLETING THE ROAD BASE (GRANULAR A).
- 30. ALL SEWER SERVICE LATERALS WITH MAINLINE CONNECTIONS DEEPER THAN 5.0M REQUIRE A CONTROLLED SETTLEMENT JOINT.
- EACH BUILDING SHALL BE EQUIPPED WITH A SANITARY AND STORM SEWER BACKWATER VALVE AND CLEAN-OUT ON ITS PRIMARY SERVICE, AS PER ONTARIO BUILDING CODE REQUIREMENTS (BY OTHERS).
- 32. THE HGL PROVIDED IS BASED ON HYDRAULIC MODELING COMPLETED USING PCSWMM AND THE 100 YEAR CHICAGO STORM EVENT (C3H10010).
- 33. THE SUBGRADE OF ALL STRUCTURES, PIPE, ROADS, SIDEWALKS, WALKWAYS, AND BUILDINGS SHALL BE INPSECTED BY THE GEOTECHNICAL ENGINEER PRIOR TO PROCEEDING WITH CONSTRUCTION.
- 34. TOP COURSE ASPHALT SHALL NOT BE PLACED UNTIL THE FINAL CCTV INSPECTION AND NECESSARY REPAIRS HAVE BEEN COMPLETED TO THE SATISFACTION OF THE ENGINEER AND THE CITY OF OTTAWA.
- 35. ALL RETAINING WALLS GREATER THAN 1.0M IN HEIGHT SHALL BE DESIGNED BY A QUALIFIED STRUCTURAL ENGINEER.
- 36. ALL RETAINING WALLS GREATER THAN 0.6M IN HEIGHT REQUIRE A GUARD. ANY GUARD ON A RETAINING WALL GREATER THAN 1.0M IN HEIGHT SHALL BE DESIGNED BY THE QUALIFIED STRUCTURAL ENGINEER RESPONSIBLE FOR THE WALL DESIGN. 37. UPON COMPLETION OF THE RETAINING WALL, THE CONTRACTOR SHALL REQUEST A CONFORMANCE
- CERTIFICATE FROM THE QUALIFIED ENGINEER RESPONSIBLE FOR THE WALL DESIGN. 38. ALL CURBS SHALL BE CONSTRUCTED AS PER CITY OF OTTAWA STANDARDS SC1.1. TYPICAL BARRIER CURB HEIGHT SHALL BE 150MM UNLESS NOTED OTHERWISE.

### **ROADWAY STRUCTURE:**

CAR ONLY PARKING AREAS:(500mm)
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50mm	- SUPERPAVE 12.5 ASPHALTIC CONCRETE
150mm	- OPSS GRANULAR "A" CRUSHED STONE
300mm	- OPSS GRANULAR "B" TYPE II

COLLECTOR ROAD :(690mm)

- 40mm SUPERPAVE 12.5 ASPHALTIC CONCRETE - SUPERPAVE 19.0 ASPHALTIC CONCRETE 50mm
- 150mm OPSS GRANULAR "A" CRUSHED STONE 450mm - OPSS GRANULAR "B" TYPE II

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3	REVISED PER CITY COMMENTS	2023-07-07	
4	REVISED PER CITY COMMENTS	2023-07-19	
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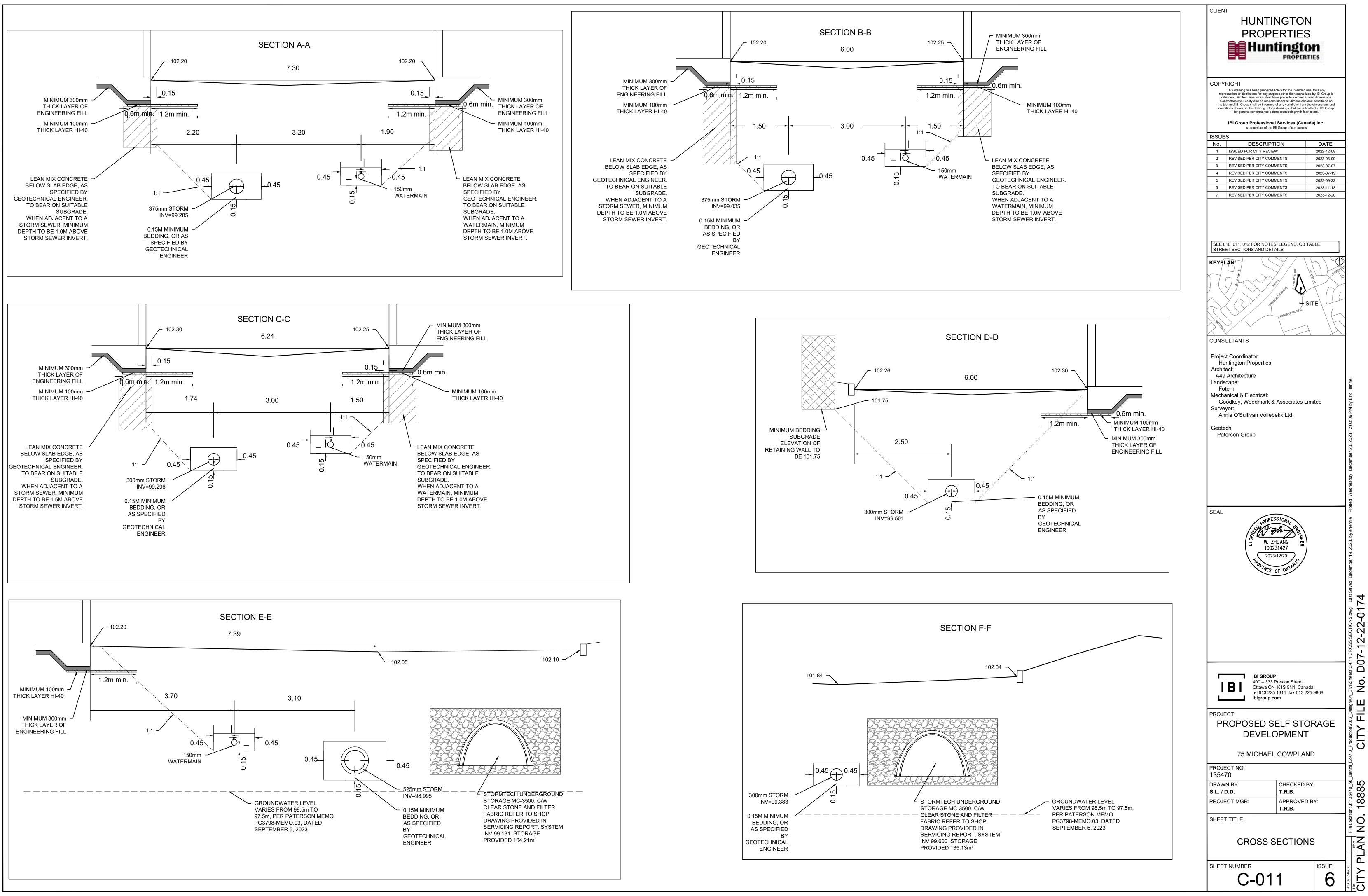
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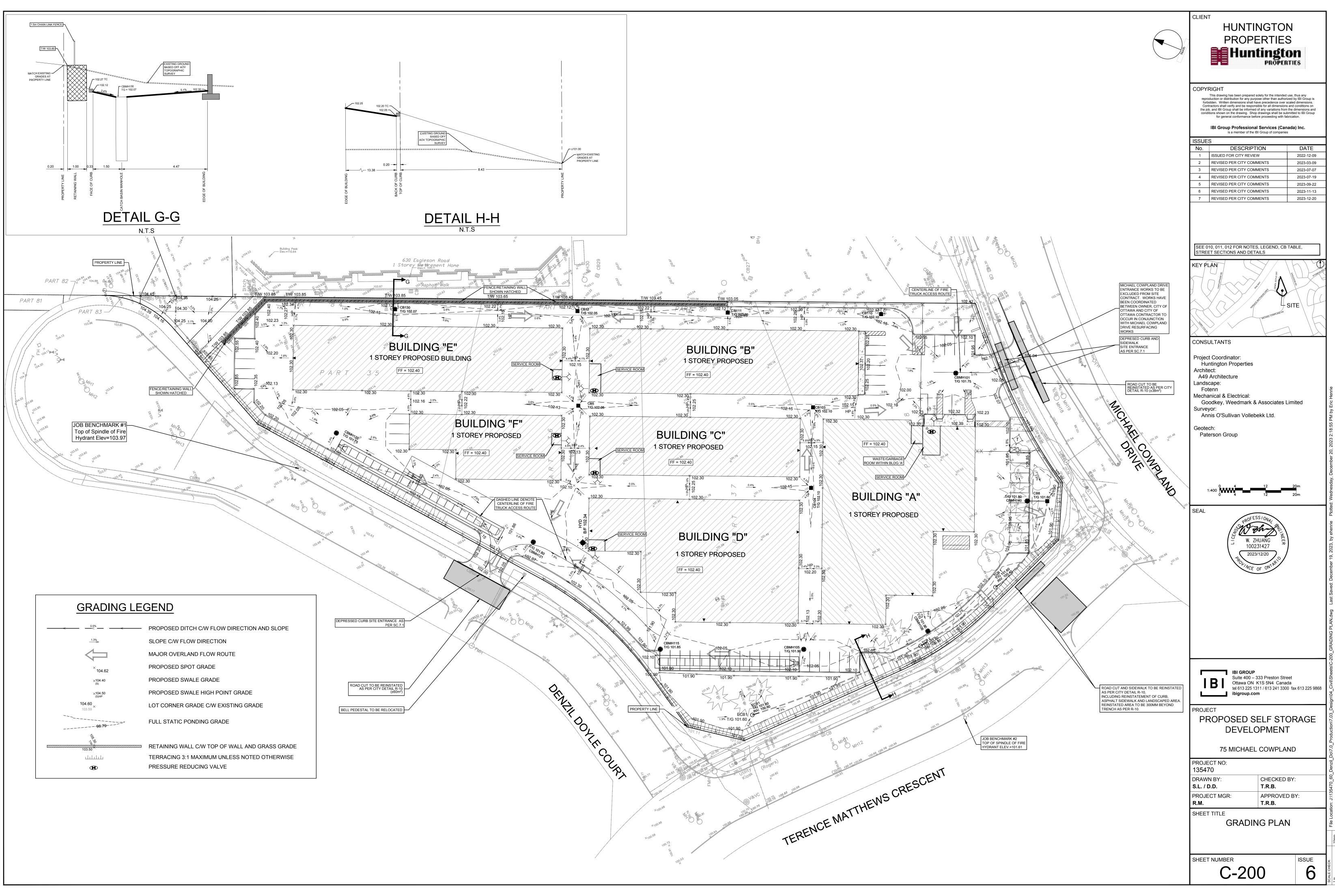
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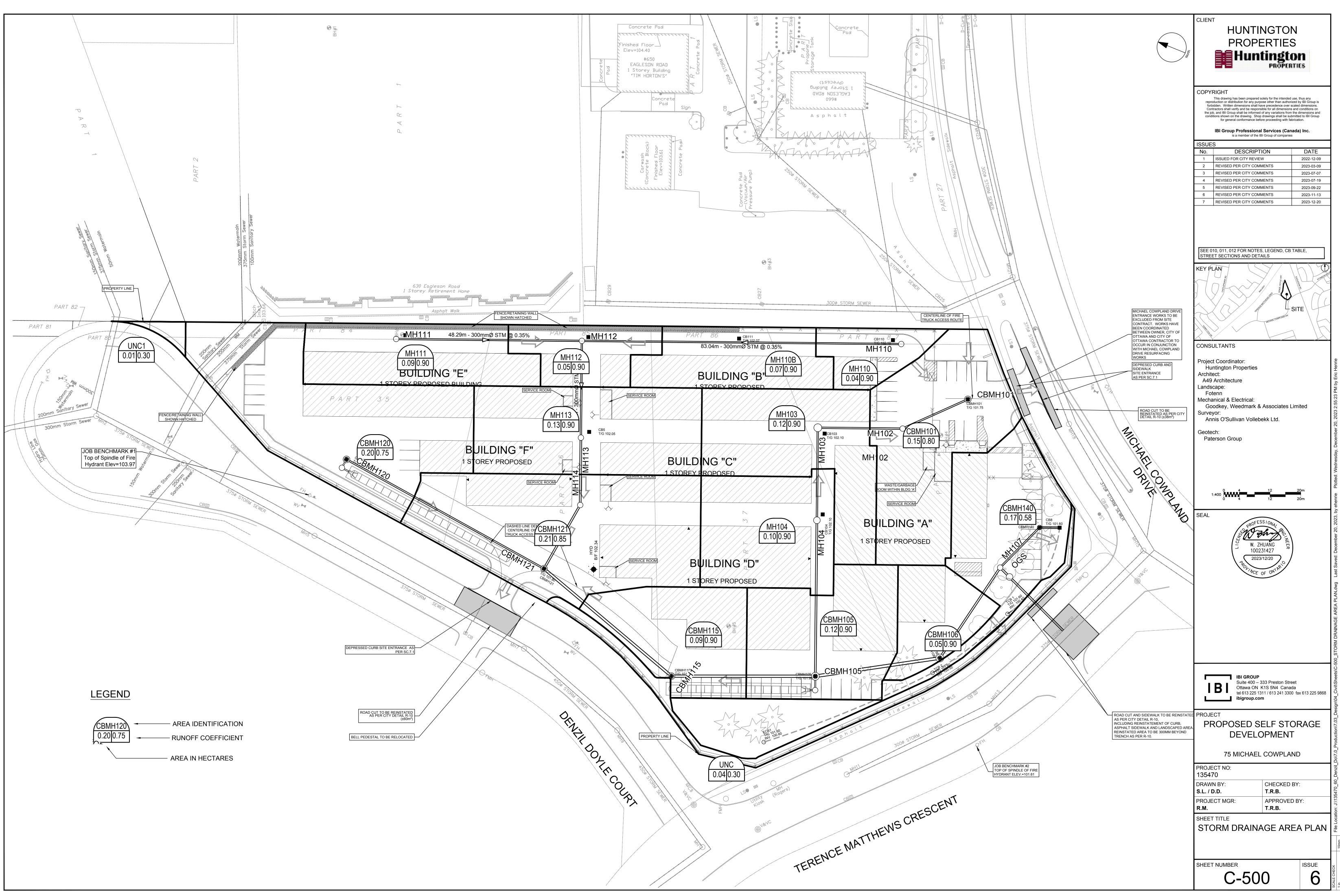
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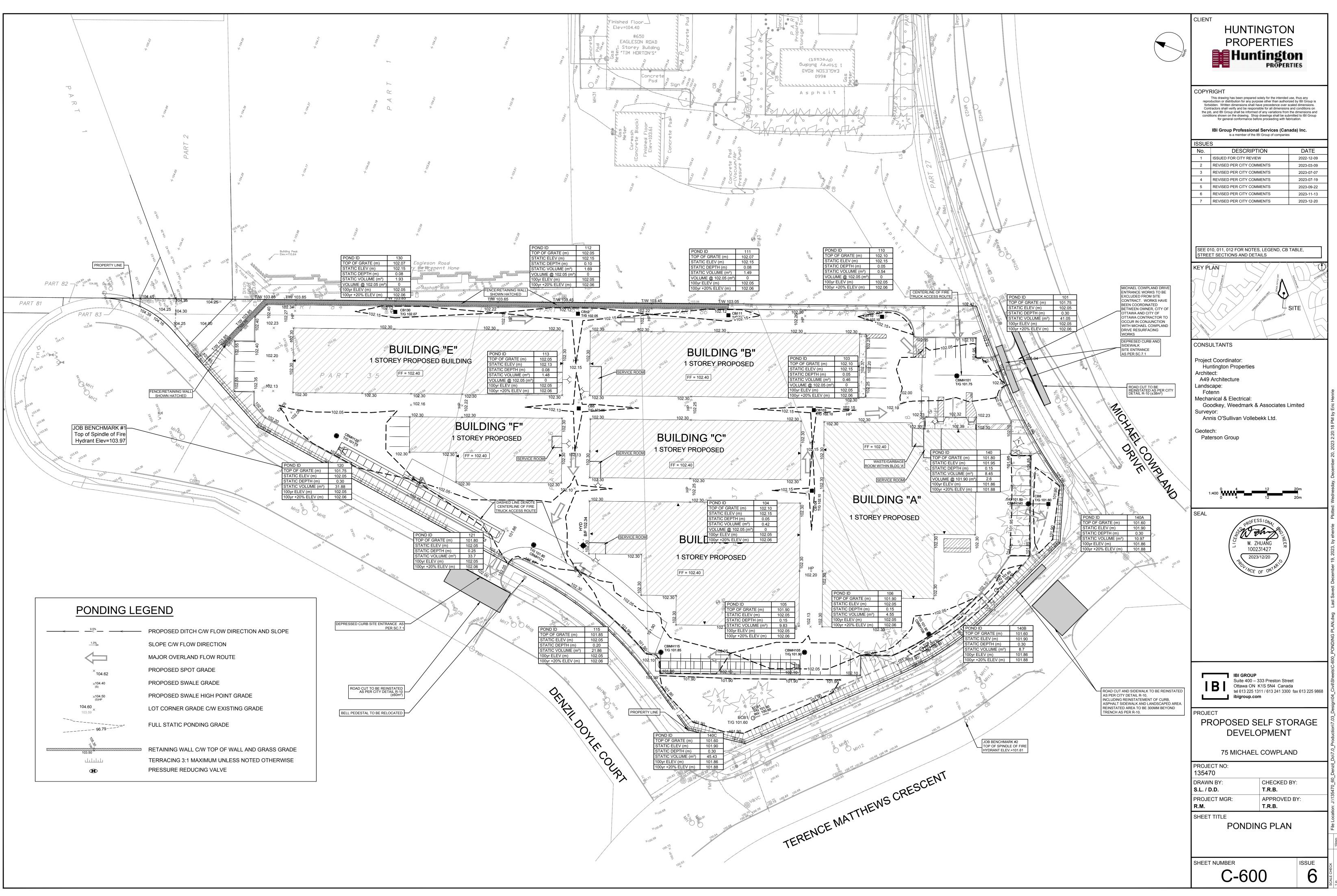
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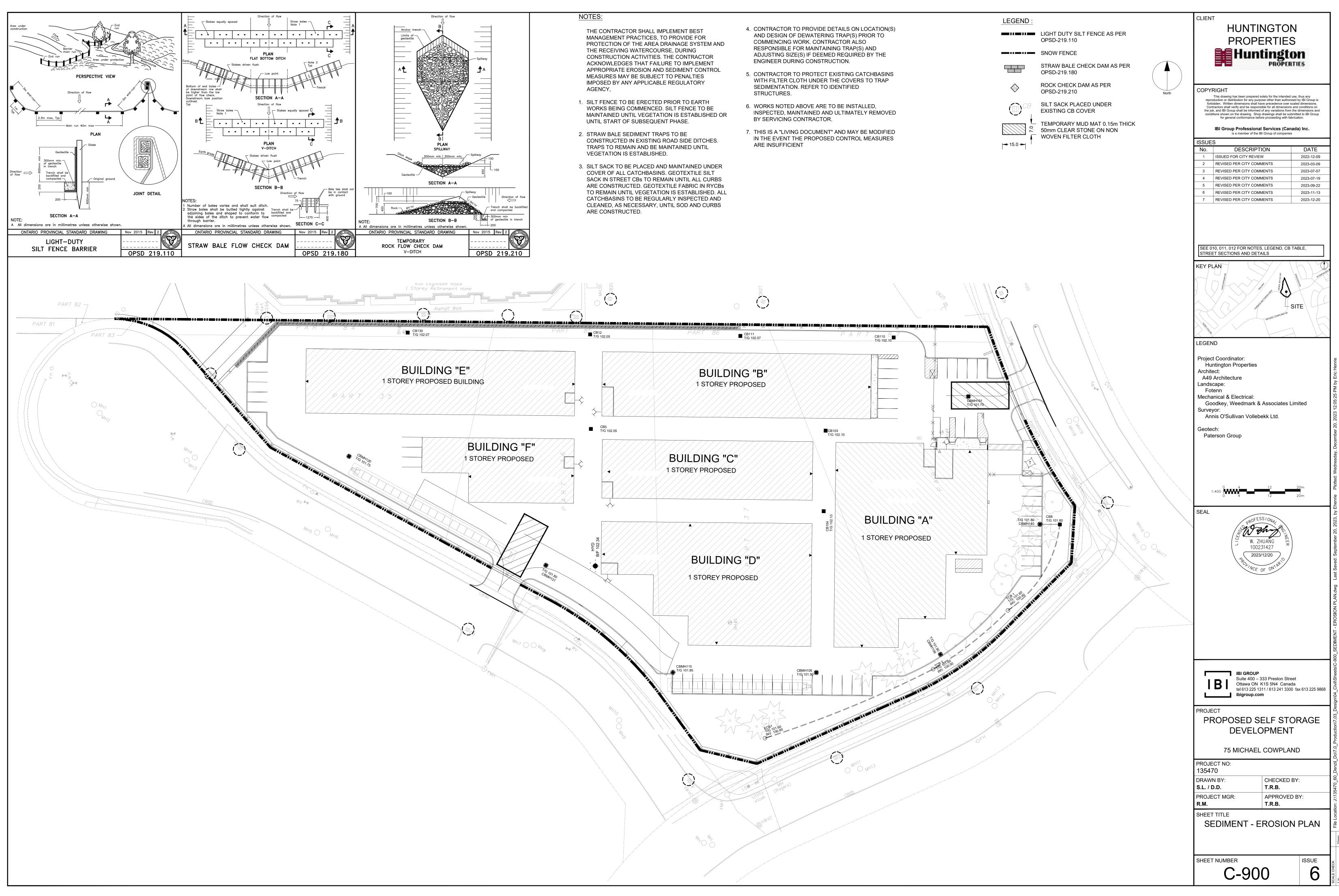
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