

LEGEND

- PROPERTY LINE
- - - FUTURE CITY ROW LIMIT
- VC EXISTING VALVE CHAMBER (WATERMAIN)
- FH EXISTING FIRE HYDRANT
- WV EXISTING WATER VALVE
- CB EXISTING CATCH BASIN INLET
- M-W EXISTING MONITORING WELL
- MH EXISTING MAINTENANCE HOLE
- 2.7m HIGH PROPOSED CHAIN LINK FENCE
- 2.7m HIGH PROPOSED ORNAMENTAL FENCE
- FL PROPOSED FIRE HYDRANT
- SL PROPOSED STREET LIGHT
- ECV FUTURE ELECTRIC VEHICLE CONDUIT
- H PROPOSED HYDRO
- G PROPOSED GAS
- BH BLOCK HEATER
- R ELECTRIC RECEPTACLE
- EV ELECTRIC VEHICLE CHARGER
- STORM PIPE c/w INSULATION PER CITY S35
- SANITARY PIPE c/w INSULATION PER CITY S35

No.	ISSUE / REVISION	DDMMYY
2	ADDRESS CITY COMMENTS	07/09/23
1	ISSUED FOR SITE PLAN CONTROL	26/06/23
0	ISSUED FOR SITE PLAN CONTROL	16/06/23

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VERIFY SHEET SIZE AND SCALES. THE BAR TO THE RIGHT IS 25mm IF THIS IS A FULL SIZE DRAWING. 0 25mm

SCALE: 1:500



CONSULTANT: **J.L. Richards**
ENGINEERS-ARCHITECTS-PLANNERS



PROFESSIONAL STAMP: **A. WILLIAMS** 100218953, 2023-09-07, PROVINCE OF ONTARIO

PROJECT NORTH

PROJECT: **CANADA POST CORPORATION**
OTTAWA PROCESSING CENTRE
50 LEIKIN DRIVE
OTTAWA, ONTARIO

DRAWING: **SITE SERVICING**

DESIGN: AW	DRAWING #:
DRAWN: NQ/KT	C02
CHECKED: LJ	
JLR #: 31940-000	

PROPOSED BUILDING
172mx122m
21,398 SQ.m
FF= 91.10
USF= 89.30

CONTRACTOR TO COORDINATE COMMS AND GAS SUPPLY

CONTRACTOR TO COORDINATE HYDRO SUPPLY FEED TO PRIMARY TRANSFORMER

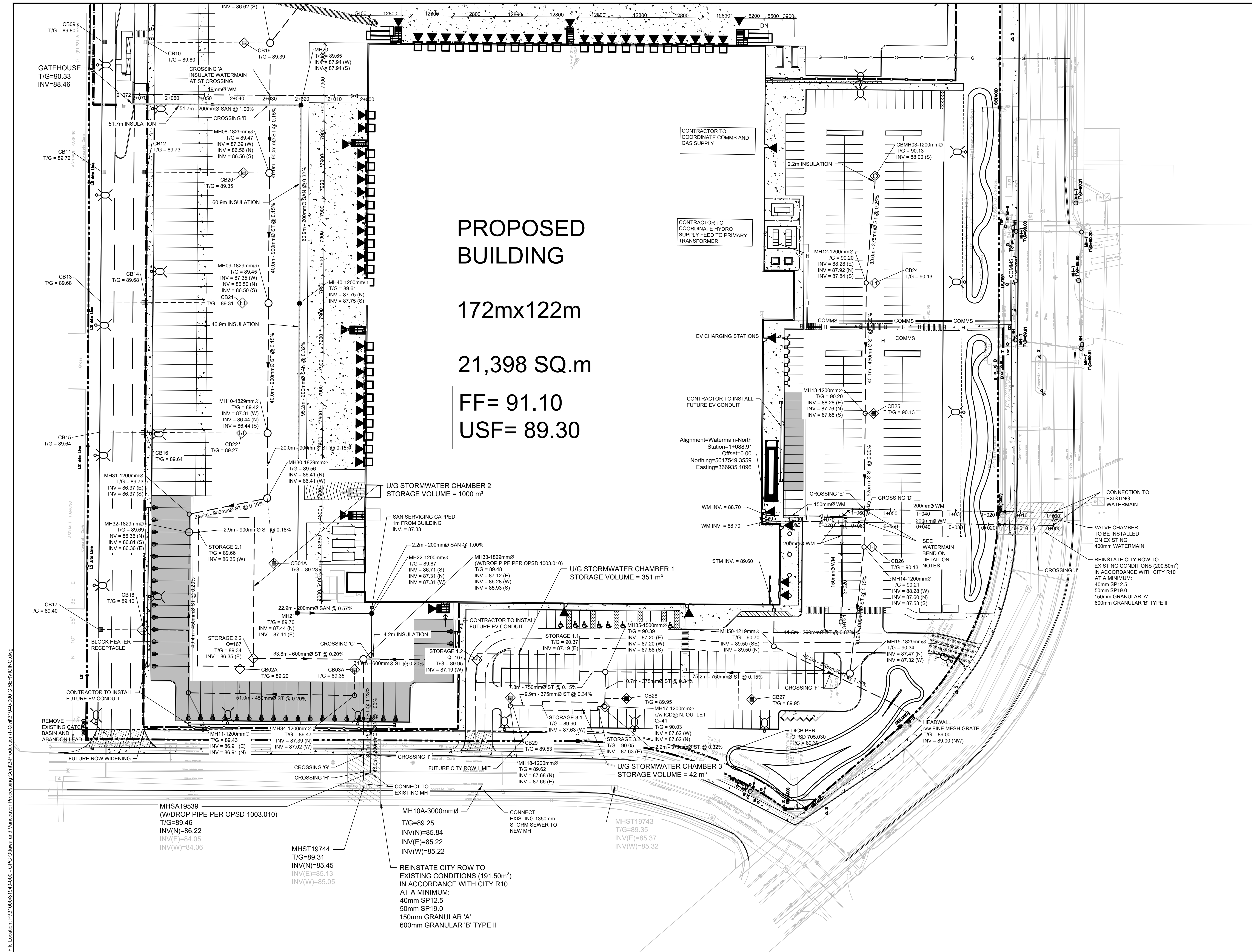
CONTRACTOR TO INSTALL FUTURE EV CONDUIT

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Station=1+088.91
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Northing=5017549.3559
Easting=366935.1096

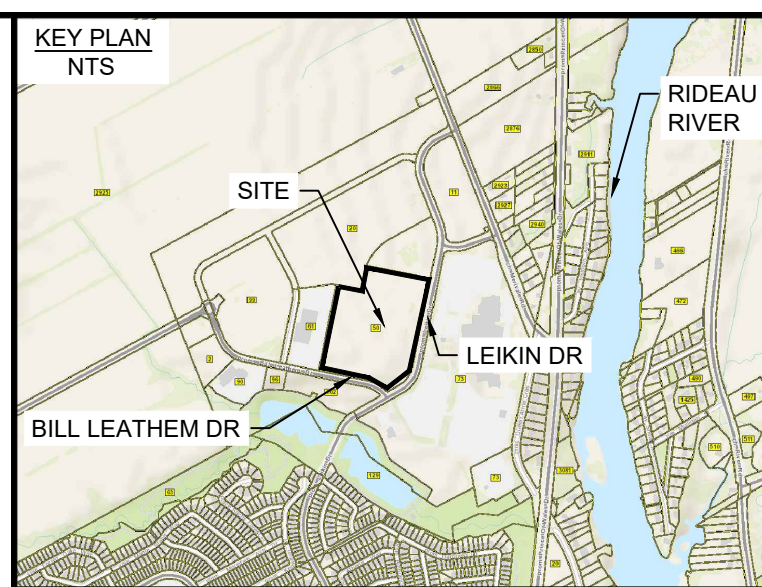
U/G STORMWATER CHAMBER 2
STORAGE VOLUME = 1000 m³

File Location: P:\13100053\1940-000 - CFC Ottawa and Vancouver Processing Centre\Production\1-Civil\1940-000 C SERVICING.dwg

PLOT DATE: September 7, 2023 3:51:05 PM
CITY PLAN No. 19018 CITY FILE No. D07-12-23-0082



File Location: P:\1310003\1940-000 - CFC Ottawa and Vancouver Processing\Centric\Production\Civil\131040-000 C SERVICING.dwg



LEGEND

---	PROPERTY LINE
---	FUTURE CITY ROW LIMIT
VC	EXISTING VALVE CHAMBER (WATERMAIN)
FH	EXISTING FIRE HYDRANT
WV	EXISTING WATER VALVE
CB	EXISTING CATCH BASIN INLET
M-W	EXISTING MONITORING WELL
M-H	EXISTING MAINTENANCE HOLE
---	2.7m HIGH PROPOSED CHAIN LINK FENCE
---	2.7m HIGH PROPOSED ORNAMENTAL FENCE
+	PROPOSED FIRE HYDRANT
+	PROPOSED STREET LIGHT
+	FUTURE ELECTRIC VEHICLE CONDUIT
H	PROPOSED HYDRO
G	PROPOSED GAS
H	BLOCK HEATER RECEPTACLE
+	ELECTRIC VEHICLE CHARGER
---	STORM PIPE c/w INSULATION PER CITY S35
---	SANITARY PIPE c/w INSULATION PER CITY S35

No.	ISSUE / REVISION	DDMMYY
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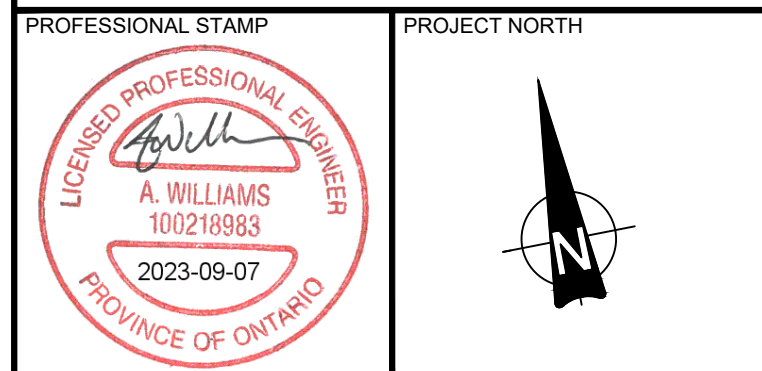
VERIFY SHEET SIZE AND SCALES. THE BAR TO THE RIGHT IS 25mm IF THIS IS A FULL SIZE DRAWING. 0 25mm

SCALE: 1:500



CLIENT: CANADA POST

CONSULTANT: J.L. Richards ENGINEERS-ARCHITECTS-PLANNERS



PROJECT: CANADA POST CORPORATION OTTAWA PROCESSING CENTRE

50 LEIKIN DRIVE OTTAWA, ONTARIO

DRAWING: SITE SERVICING

DESIGN: AW	DRAWING #:
DRAWN: NQ/KT	C02.1
CHECKED: LJ	
JLR #: 31940-000	

PLOT DATE: September 7, 2023 3:51:12 PM
CITY PLAN No. 19018 CITY FILE No. D07-12-23-0082

PAVEMENT STRUCTURE

PAVEMENT DESIGN TO BE IN ACCORDANCE WITH GEOTECHNICAL INVESTIGATION REPORT (DECEMBER 2022) PREPARED BY WSP (Project No. OESA02132):

- EMPLOYEE PARKING:**
- 40mm ASPHALT SURFACE COURSE (HL-3)
 - 60mm ASPHALT BASE COURSE (HL-8)
 - 150mm BASE - GRANULAR 'A' (OPSS 1010)
 - 350mm SUBBASE - GRANULAR 'B' TYPE II (OPSS 1010)

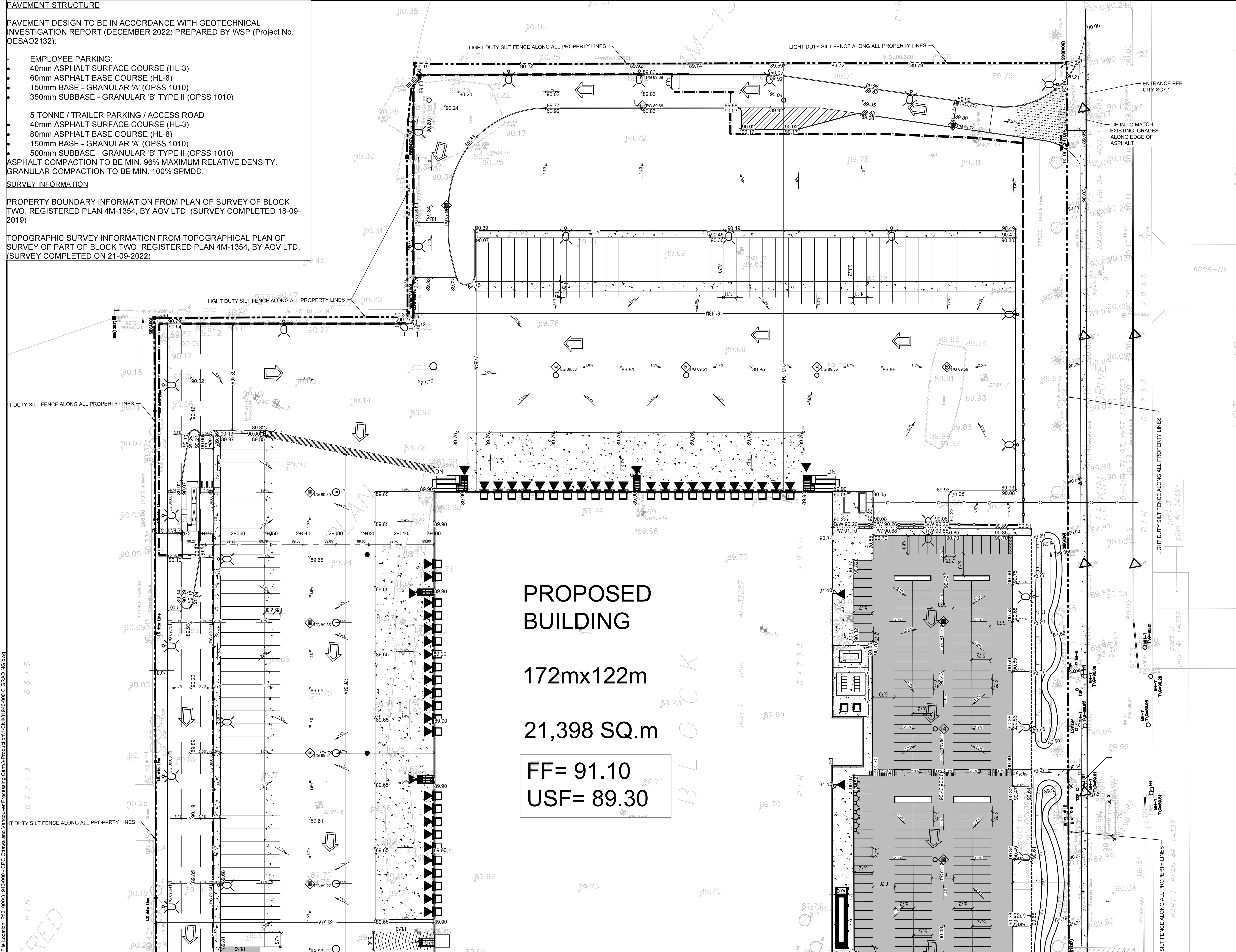
- 5-TONNE / TRAILER PARKING / ACCESS ROAD**
- 40mm ASPHALT SURFACE COURSE (HL-3)
 - 80mm ASPHALT BASE COURSE (HL-8)
 - 150mm BASE - GRANULAR 'A' (OPSS 1010)
 - 500mm SUBBASE - GRANULAR 'B' TYPE II (OPSS 1010)

ASPHALT COMPACTION TO BE MIN. 96% MAXIMUM RELATIVE DENSITY.
GRANULAR COMPACTION TO BE MIN. 100% SPMDD.

SURVEY INFORMATION

PROPERTY BOUNDARY INFORMATION FROM PLAN OF SURVEY OF BLOCK TWO, REGISTERED PLAN 4M-1354, BY AOV LTD. (SURVEY COMPLETED 18-09-2019)

TOPOGRAPHIC SURVEY INFORMATION FROM TOPOGRAPHICAL PLAN OF SURVEY OF PART OF BLOCK TWO, REGISTERED PLAN 4M-1354, BY AOV LTD. (SURVEY COMPLETED ON 21-09-2022)



PROPOSED BUILDING

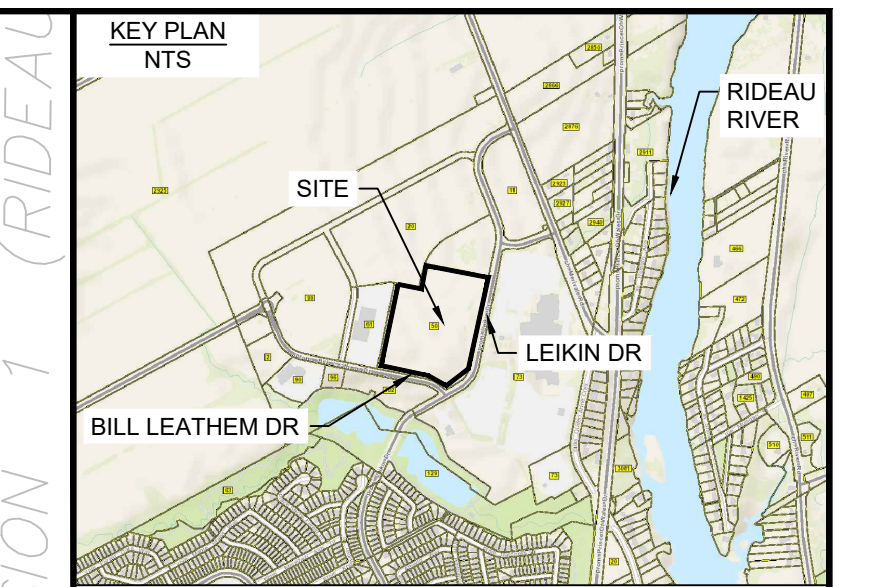
172mx122m

21,398 SQ.m

FF= 91.10

USF= 89.30

BLOCK TWO



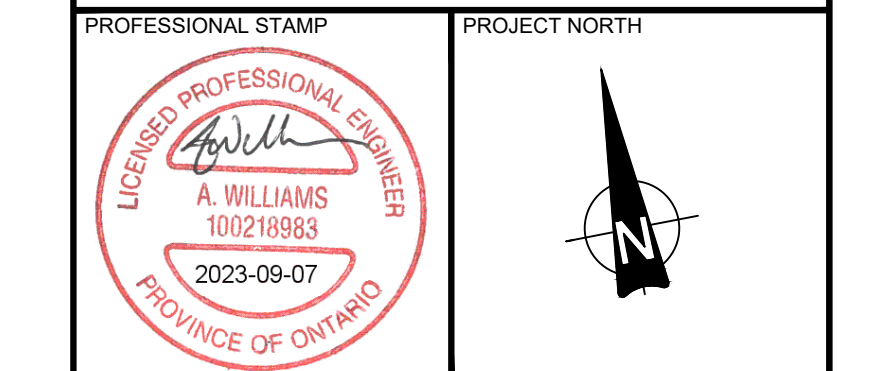
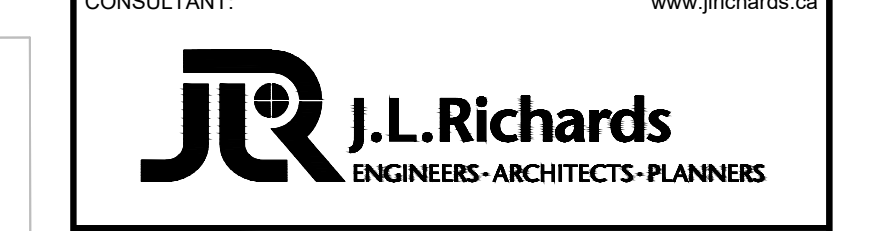
LEGEND

---	PROPERTY LINE
- - - -	FUTURE CITY ROW LIMIT
• 89.92	EXISTING ELEVATION (m)
• 89.92*	EXISTING TOP OF CURB/WALL ELEVATION (m)
• 89.53	PROPOSED ELEVATION
↘	SURFACE SLOPE
→	FLOW DIRECTION
△	FILTER CLOTH FOR EXISTING STRUCTURE
▬	IRON BAR
○ VC	EXISTING VALVE CHAMBER (WATERMAIN)
○ FH	EXISTING FIRE HYDRANT
○ W	EXISTING WATER VALVE
□ CB	EXISTING CATCH BASIN INLET
○ M-W	EXISTING MONITORING WELL
○ MH	EXISTING MAINTENANCE HOLE
▬	2.7m HIGH PROPOSED CHAIN LINK FENCE
▬	2.7m HIGH PROPOSED ORNAMENTAL FENCE
→	OVERLAND FLOW
▬	RETAINING WALL
▬	MUD MAT
▬	HEAVY DUTY ASPHALT
▬	LIGHT DUTY ASPHALT

No.	ISSUE / REVISION	DD/MM/YY
2	ADDRESS CITY COMMENTS	07/09/23
1	ISSUED FOR SITE PLAN CONTROL	26/06/23
0	ISSUED FOR SITE PLAN CONTROL	16/09/23

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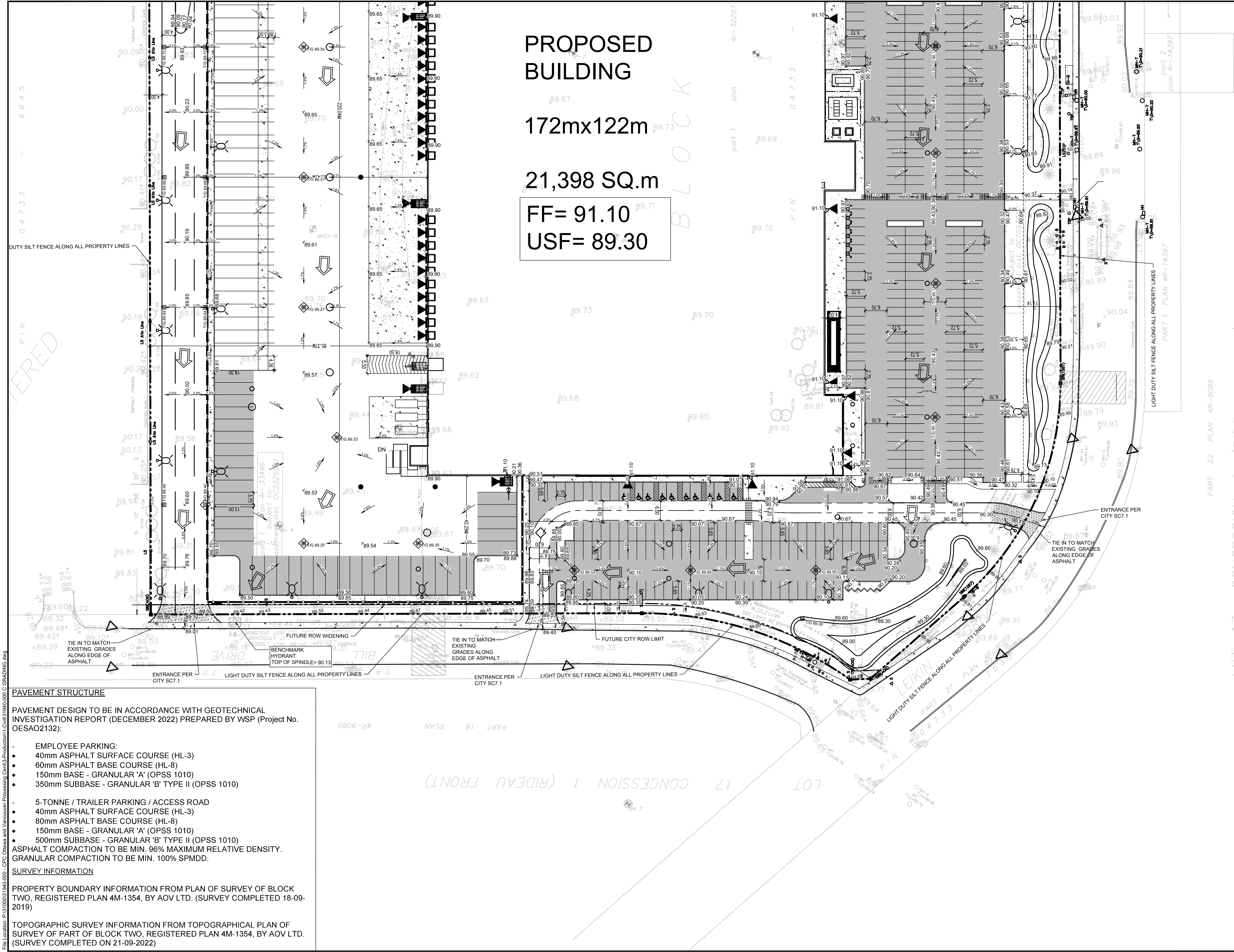


PROJECT:
**CANADA POST CORPORATION
OTTAWA PROCESSING CENTRE**
50 LIEKIN DRIVE
OTTAWA, ONTARIO

DRAWING:
GRADING AND EROSION & SEDIMENT CONTROL PLAN

DESIGN: AW
DRAWN: NQ/KT
CHECKED: LJ
JLR #: 31940-000

DRAWING #:
C03



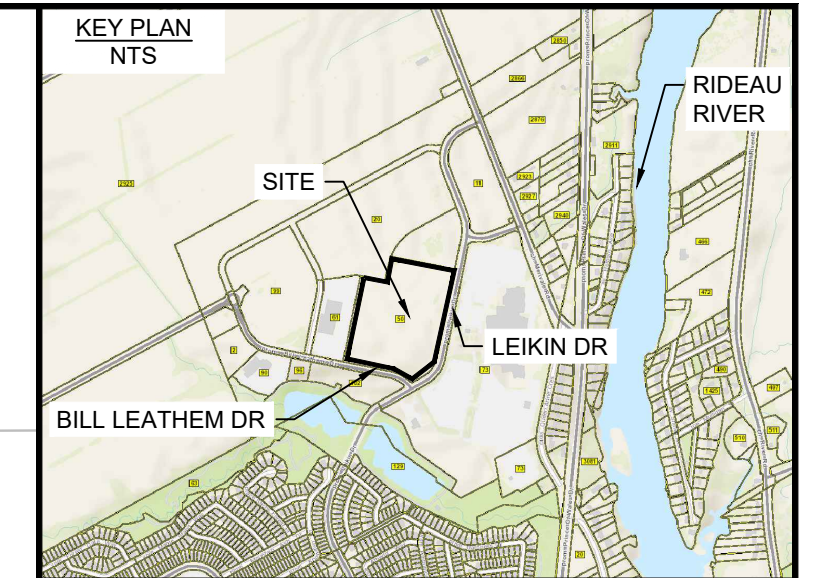
PROPOSED BUILDING

172mx122m

21,398 SQ.m

FF= 91.10

USF= 89.30



LEGEND

	PROPERTY LINE
	FUTURE CITY ROW LIMIT
	EXISTING ELEVATION (m)
	EXISTING TOP OF CURB/WALL ELEVATION (m)
	PROPOSED ELEVATION
	SURFACE SLOPE
	FLOW DIRECTION
	FILTER CLOTH FOR EXISTING STRUCTURE
	IRON BAR
	EXISTING VALVE CHAMBER (WATERMAIN)
	EXISTING FIRE HYDRANT
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	LIGHT DUTY ASPHALT

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SCALE: 1:500



CLIENT: CANADA POST

CONSULTANT: J.L. Richards ENGINEERS-ARCHITECTS-PLANNERS



PROFESSIONAL STAMP: A. WILLIAMS, LICENSED PROFESSIONAL ENGINEER, 100218963, 2023-09-07, PROVINCE OF ONTARIO

PROJECT NORTH: [North Arrow]

PROJECT: CANADA POST CORPORATION OTTAWA PROCESSING CENTRE

50 LEIKIN DRIVE OTTAWA, ONTARIO

DRAWING: GRADING, EROSION AND SEDIMENT CONTROL PLAN

DESIGN: AW
 DRAWN: NQ/KT
 CHECKED: LJ
 JLR #: 31940-000

DRAWING #: C03.1

PAVEMENT STRUCTURE

PAVEMENT DESIGN TO BE IN ACCORDANCE WITH GEOTECHNICAL INVESTIGATION REPORT (DECEMBER 2022) PREPARED BY WSP (Project No. OESA02132):

- EMPLOYEE PARKING:
 - 40mm ASPHALT SURFACE COURSE (HL-3)
 - 60mm ASPHALT BASE COURSE (HL-8)
 - 150mm BASE - GRANULAR 'A' (OPSS 1010)
 - 350mm SUBBASE - GRANULAR 'B' TYPE II (OPSS 1010)
- 5-TONNE / TRAILER PARKING / ACCESS ROAD
 - 40mm ASPHALT SURFACE COURSE (HL-3)
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 - 500mm SUBBASE - GRANULAR 'B' TYPE II (OPSS 1010)

ASPHALT COMPACTION TO BE MIN. 96% MAXIMUM RELATIVE DENSITY.
 GRANULAR COMPACTION TO BE MIN. 100% SPMDD.

SURVEY INFORMATION

PROPERTY BOUNDARY INFORMATION FROM PLAN OF SURVEY OF BLOCK TWO, REGISTERED PLAN 4M-1354, BY AOV LTD. (SURVEY COMPLETED 18-09-2019)

TOPOGRAPHIC SURVEY INFORMATION FROM TOPOGRAPHICAL PLAN OF SURVEY OF PART OF BLOCK TWO, REGISTERED PLAN 4M-1354, BY AOV LTD. (SURVEY COMPLETED ON 21-09-2022)

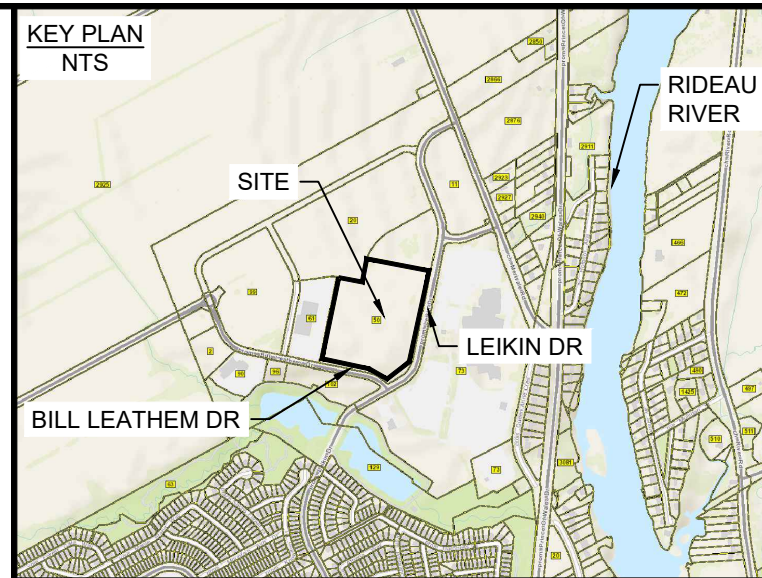
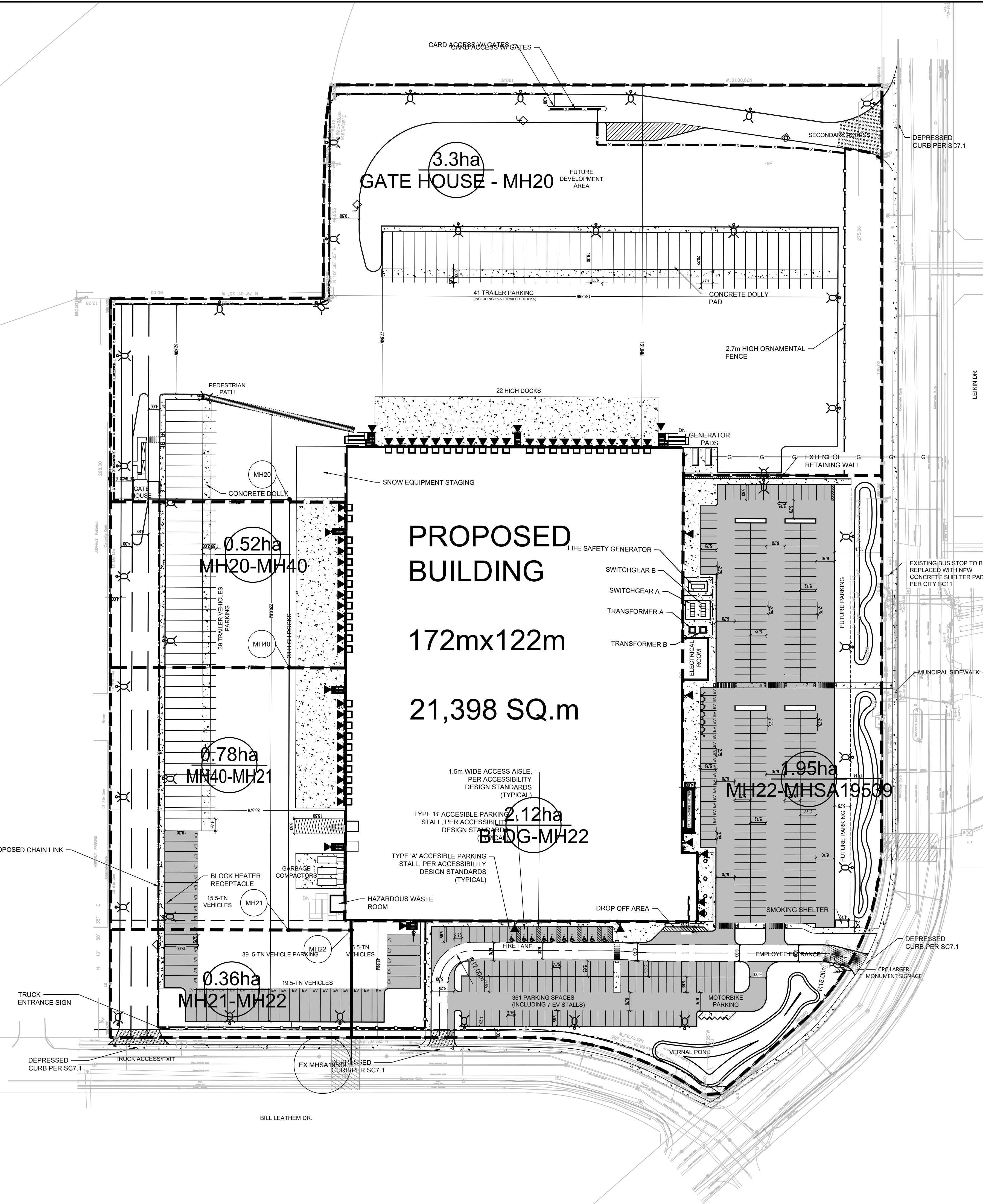
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LOT 17 CONCESSION 1 (RIDEAU FRONT) PART 22 PLAN 4R-9089 PART 1 PLAN 4R-14397 PART 27 PLAN 4R-9089

PLOT DATE: September 7, 2023 3:51:34 PM
 CITY PLAN No. 19018 CITY FILE No. D07-12-23-0082

File Location: P:\1310003\1940-000 - CFC Ottawa and Vancouver Processing Centre\Production\1-Civil\131940-000 C D SAN.dwg

subject to
easement inst. oc787937



KEY PLAN
NTS

LEGEND

- SAN BOUNDARY
- AREA IN HECTARES
- PIPE REACH UPSTREAM MAINTENANCE HOLE TO DOWNSTREAM MAINTENANCE HOLE 2018 BSUEA MSS

No.	ISSUE / REVISION	DDMMYY
2	ADDRESS CITY COMMENTS	07/09/23
1	ISSUED FOR SITE PLAN CONTROL	28/06/23
0	ISSUED FOR SITE PLAN CONTROL	16/06/23

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SCALE: 1:750



CLIENT:
CANADA POST

CONSULTANT:
www.jrichards.ca



PROFESSIONAL STAMP
PROJECT NORTH

LICENSED PROFESSIONAL ENGINEER
A. WILLIAMS
1002-10953
2023-09-07
PROVINCE OF ONTARIO

PROJECT:
CANADA POST CORPORATION
OTTAWA PROCESSING CENTRE
50 LEIKIN DRIVE
OTTAWA, ONTARIO

DRAWING:
SANITARY DRAINAGE PLAN

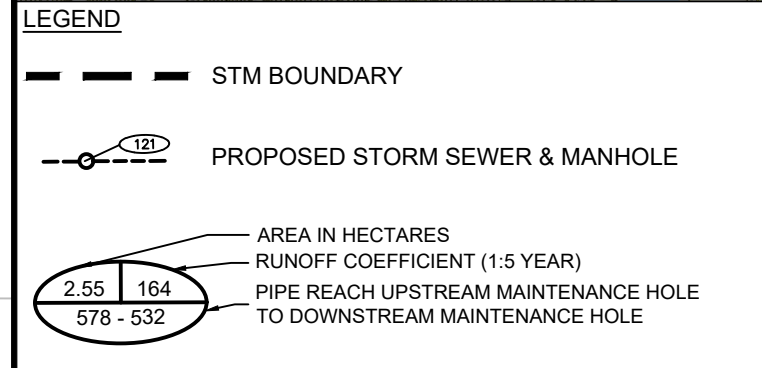
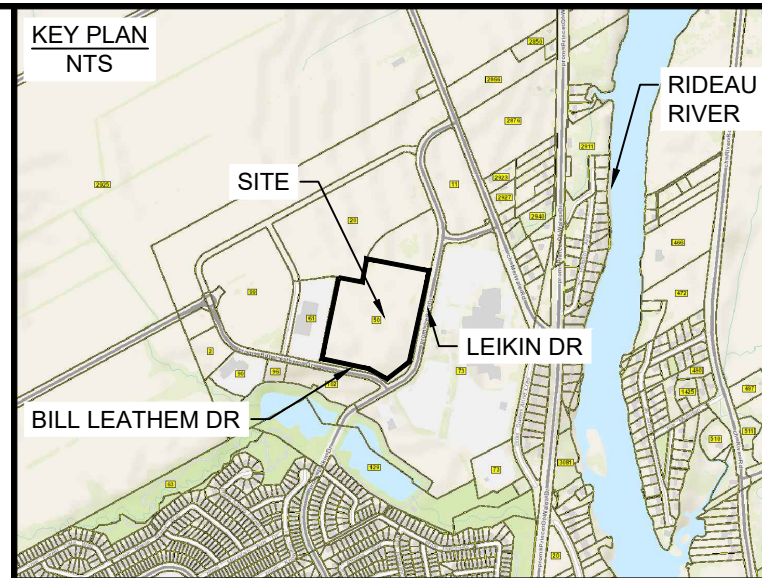
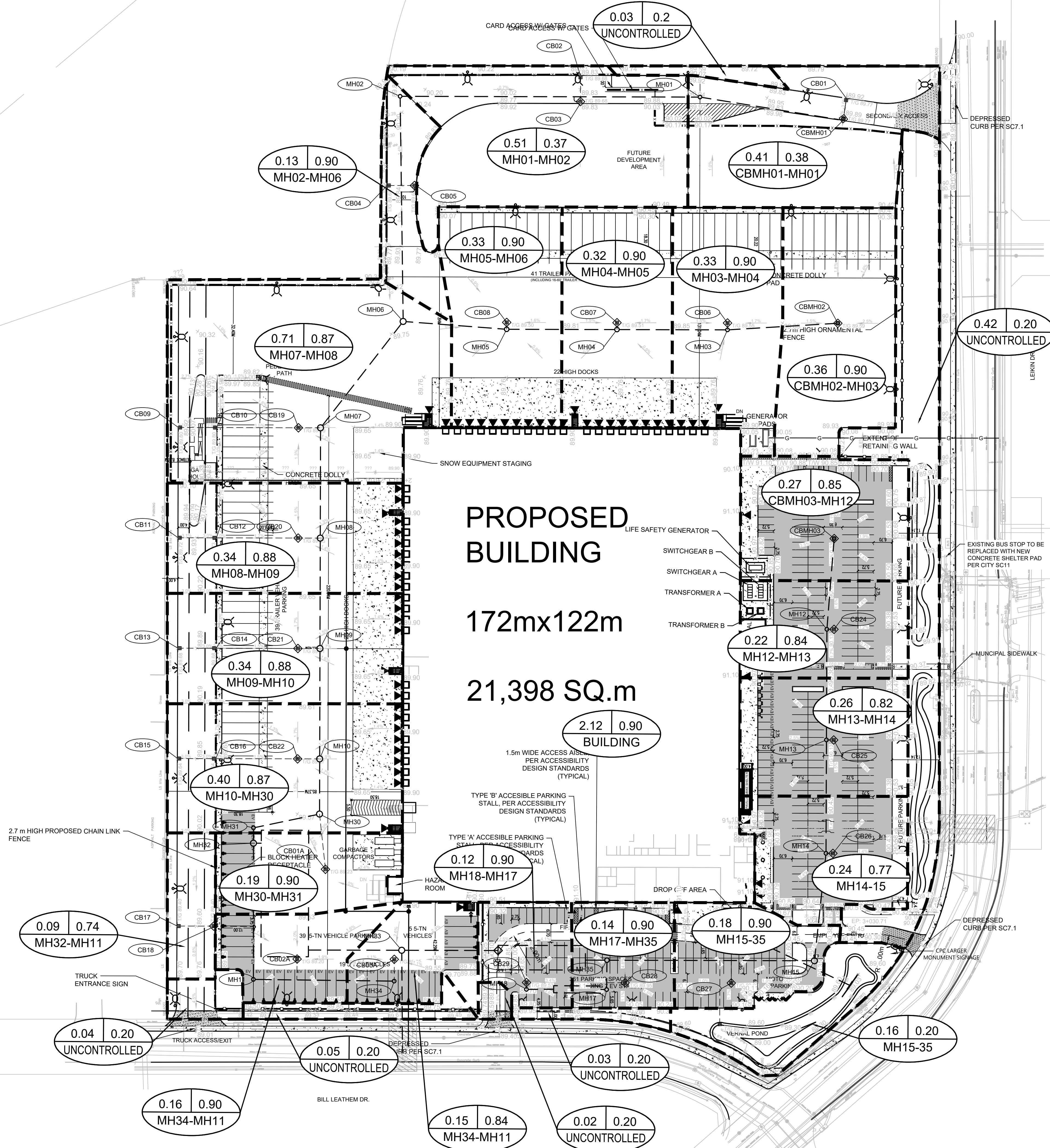
DESIGN: AW
DRAWN: NQ
CHECKED: LJ
JLR #: 31940-000

DRAWING #:
C04

Plot Date: September 7, 2023 3:51:54 PM
CITY PLAN No. 19018 CITY FILE No. D07-12-23-0082

File Location: P:\1310003\1940-000 - CFC Ottawa and Vancouver Processing Centre\Production\1-Civil\131003-1940-000 C.DST.dwg

subject to
easement inst. oc787937



No.	ISSUE / REVISION	DDMMYY
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CONSULTANT: J.L. Richards ENGINEERS-ARCHITECTS-PLANNERS



PROFESSIONAL STAMP: A. WILLIAMS 100210963 2023-09-07 PROVINCE OF ONTARIO

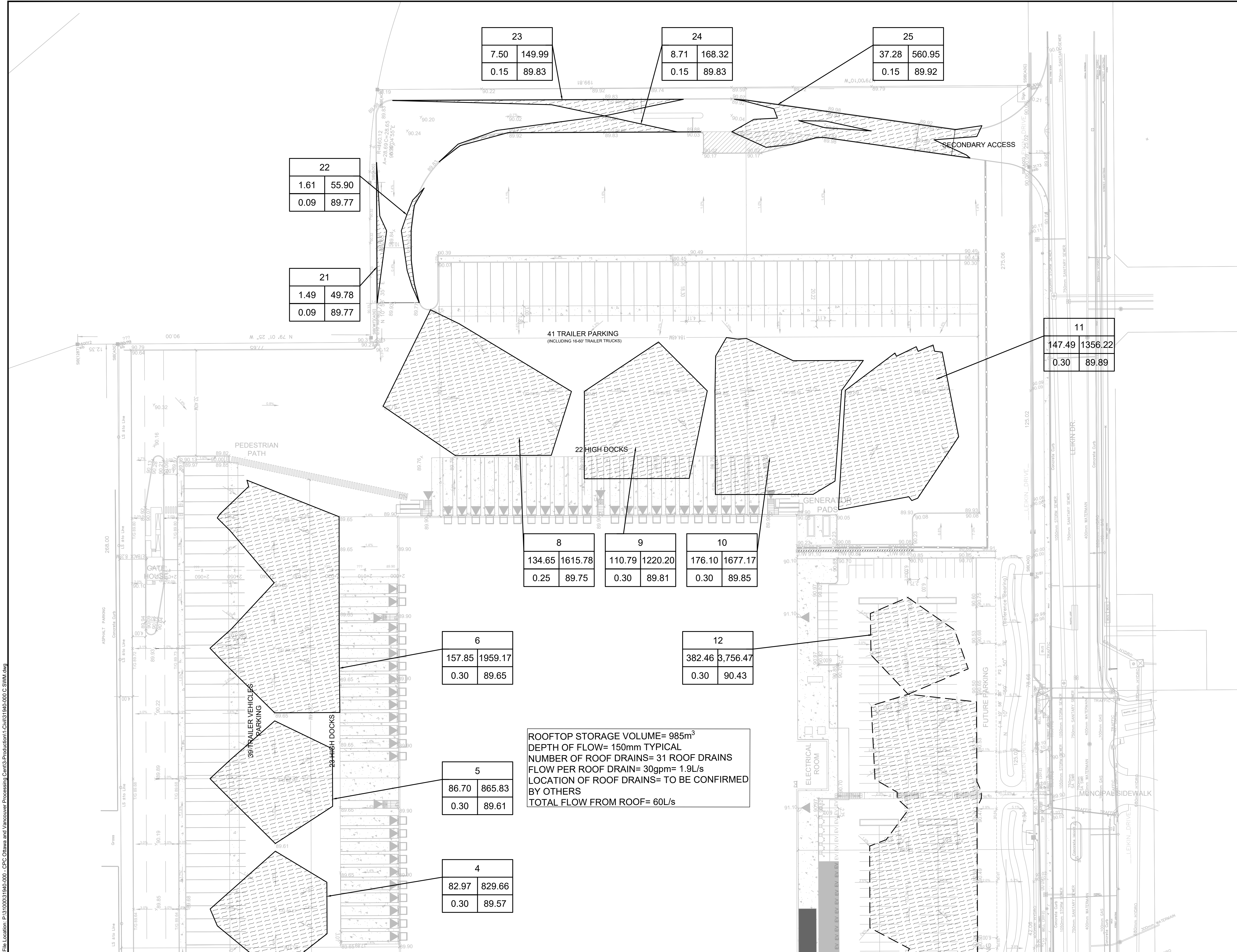
PROJECT NORTH

PROJECT: CANADA POST CORPORATION OTTAWA PROCESSING CENTRE 50 LEIKIN DRIVE OTTAWA, ONTARIO

DRAWING: STORM DRAINAGE PLAN

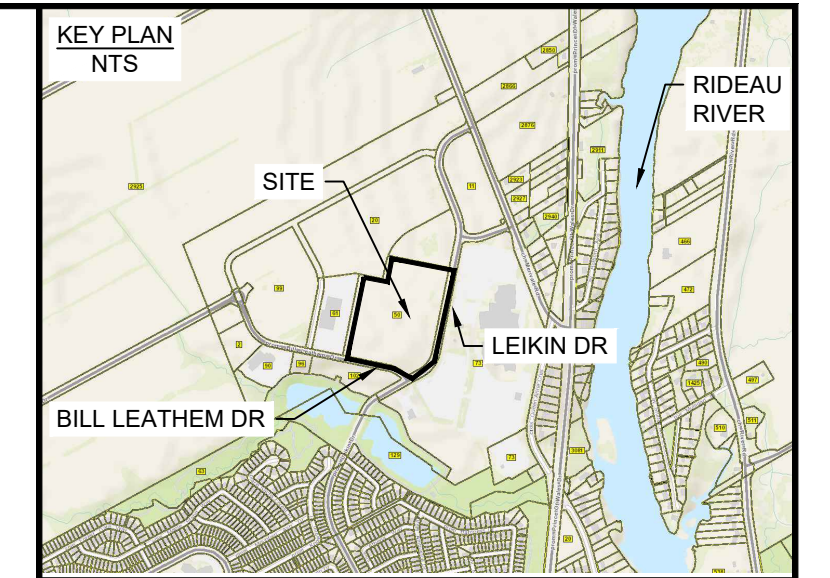
DESIGN: AW	DRAWING #:
DRAWN: NQ	C05
CHECKED: LJ	
JLR #: 31940-000	

PLOT DATE: September 7, 2023 3:52:25 PM CITY PLAN No. 19018 CITY FILE No. DO7-12-23-0082



ROOFTOP STORAGE VOLUME= 985m³
 DEPTH OF FLOW= 150mm TYPICAL
 NUMBER OF ROOF DRAINS= 31 ROOF DRAINS
 FLOW PER ROOF DRAIN= 30gpm= 1.9L/s
 LOCATION OF ROOF DRAINS= TO BE CONFIRMED BY OTHERS
 TOTAL FLOW FROM ROOF= 60L/s

23	7.50	149.99	0.15	89.83
24	8.71	168.32	0.15	89.83
25	37.28	560.95	0.15	89.92
22	1.61	55.90	0.09	89.77
21	1.49	49.78	0.09	89.77
11	147.49	1356.22	0.30	89.89
8	134.65	1615.78	0.25	89.75
9	110.79	1220.20	0.30	89.81
10	176.10	1677.17	0.30	89.85
6	157.85	1959.17	0.30	89.65
12	382.46	3,756.47	0.30	90.43
5	86.70	865.83	0.30	89.61
4	82.97	829.66	0.30	89.57



LEGEND

10	MAX. PONDING VOLUME (m ³)
176.10 1677.17	AREA ID
0.30 89.85	MAX. PONDING AREA (m ²)
	MAX. WATER LEVEL (STATIC)
	PONDING DEPTH (STATIC)

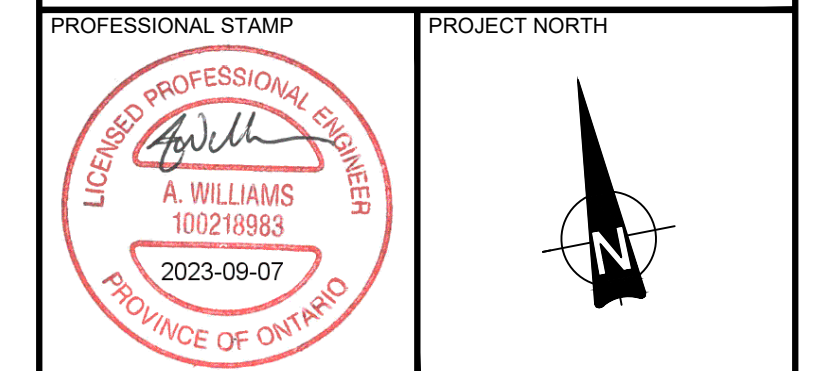
MAXIMUM WATER LEVEL (STATIC)

2	ADDRESS CITY COMMENTS	07/09/23
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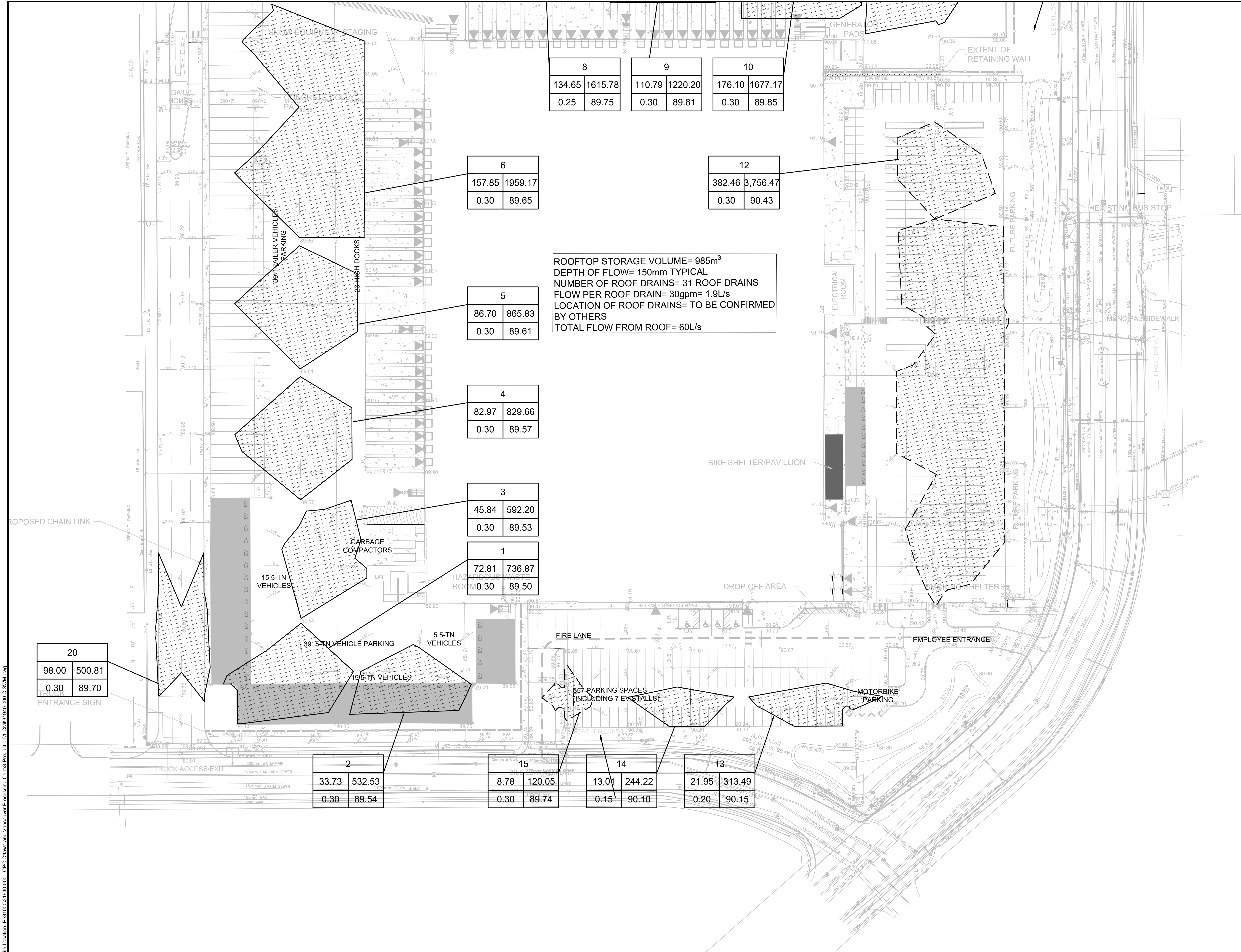


PROJECT:
CANADA POST CORPORATION
 OTTAWA PROCESSING CENTRE
 50 LEIKIN DRIVE
 OTTAWA, ONTARIO

DRAWING:
STORM DRAINAGE AND PONDING PLAN

DESIGN: AW	DRAWING #:
DRAWN: NQ	C06
CHECKED: LJ	
JLR #: 31940-000	

File Location: P:\13100051\13140-000 - CFC Ottawa and Vancouver Processing Centre\production\13140-000 C SWM.dwg



8	9	10
134.65	1615.78	176.10
0.25	89.75	89.85

6
157.85
1959.17
0.30
89.65

12
382.46
3,756.47
0.30
90.43

5
86.70
865.83
0.30
89.61

4
82.97
829.66
0.30
89.57

3
45.84
592.20
0.30
89.53

1
72.81
736.87
0.30
89.50

ROOFTOP STORAGE VOLUME= 985m³
 DEPTH OF FLOW= 150mm TYPICAL
 NUMBER OF ROOF DRAINS= 31 ROOF DRAINS
 FLOW PER ROOF DRAIN= 30gpm= 1.9L/s
 LOCATION OF ROOF DRAINS= TO BE CONFIRMED BY OTHERS
 TOTAL FLOW FROM ROOF= 60L/s

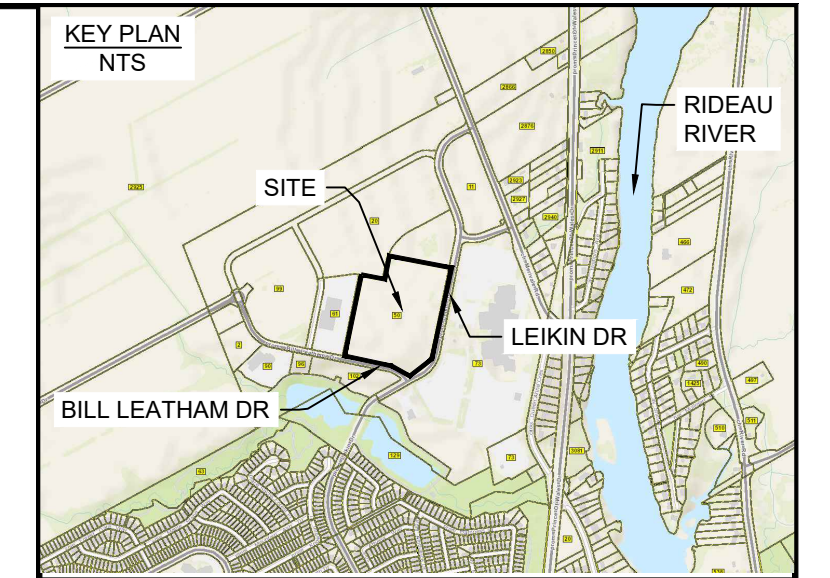
20
98.00
500.81
0.30
89.70

2
33.73
532.53
0.30
89.54

15
8.78
120.05
0.30
89.74

14
13.01
244.22
0.15
90.10

13
21.95
313.49
0.20
90.15

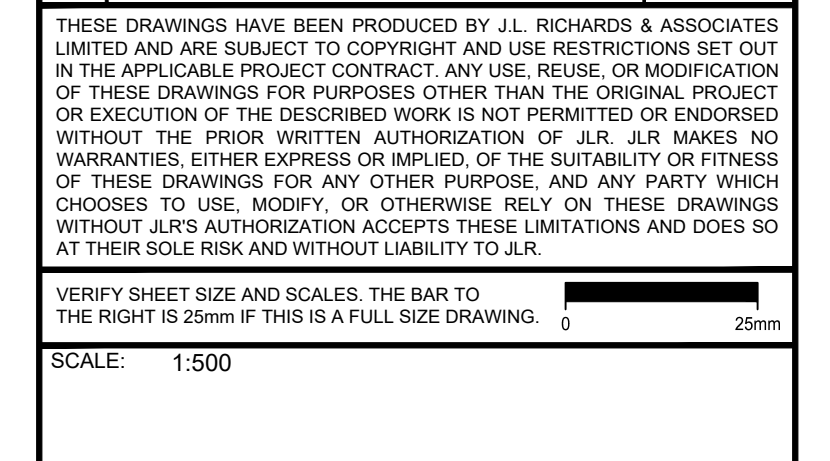


LEGEND

- MAX. PONDING VOLUME (m³)
- AREA ID
- MAX. PONDING AREA (m²)
- MAX. WATER LEVEL (STATIC)
- PONDING DEPTH (STATIC)

No.	ISSUE / REVISION	DDMMYY
2	ADDRESS CITY COMMENTS	07/09/23
1	ISSUED FOR SITE PLAN CONTROL	26/06/23
0	ISSUED FOR SITE PLAN CONTROL	16/06/23

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PROFESSIONAL STAMP

PROJECT NORTH

PROJECT:
CANADA POST CORPORATION
 OTTAWA PROCESSING CENTRE
 50 LEIKIN DRIVE
 OTTAWA, ONTARIO

DRAWING:
STORM DRAINAGE AND PONDING PLAN

DESIGN: AW
 DRAWN: NQ
 CHECKED: LJ
 JLR #: 31940-000

DRAWING #:
C06.1

PLOT DATE: September 7, 2023 3:52:46 PM
 CITY PLAN No. 19018 CITY FILE No. D07-12-23-0082

GENERAL CONSTRUCTION NOTES :

- ALL MATERIAL (SANITARY, STORM & WATERMAIN) AND CONSTRUCTION METHODS TO BE IN ACCORDANCE WITH THE CURRENT CITY OF OTTAWA STANDARD DRAWINGS AND SPECIFICATIONS, AND ONTARIO PROVINCIAL STANDARD DRAWINGS AND SPECIFICATIONS.
- SERVICING DESIGN DRAWINGS TO BE READ IN CONJUNCTION WITH THE SITE SERVICING REPORT (JUNE 26, 2023) PREPARED BY J.L. RICHARDS & ASSOCIATES LIMITED (JLR 31940-000) AS WELL AS THE GEOTECHNICAL INVESTIGATION REPORTS PREPARED BY WSP (OESA02132) DATED DECEMBER 2, 2022 AND JUNE 13, 2023, RESPECTIVELY.
- UNLESS OTHERWISE NOTED ALL DIMENSIONS ARE TO THE CENTRELINE OF SEWER OR MAINTENANCE HOLE.
- THE NOMINAL DIAMETER OF PIPES ARE REFERRED TO IN PLAN VIEW.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING LOCATES FROM ALL UTILITY COMPANIES TO LOCATE EXISTING UTILITIES PRIOR TO EXCAVATION.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL EXCAVATION, BACKFILL AND REINSTATEMENT OF ALL AREAS DISTURBED DURING CONSTRUCTION AND ALL ASSOCIATED WORKS TO THE SATISFACTION OF THE ENGINEER AND CITY OF OTTAWA.
- ALL CONNECTIONS TO EXISTING WATERMAIN TO BE COMPLETED BY CITY OF OTTAWA FORCES. CONTRACTOR TO PROVIDE EXCAVATION, BACKFILLING, COMPACTION AND REINSTATEMENT, IN ACCORDANCE WITH CURRENT CITY SPECIFICATIONS.
- THE CONTRACTOR SHALL BE RESPONSIBLE TO DETERMINE, VIA EXCAVATION, THE EXACT LOCATION AND ELEVATION OF THE EXISTING WATERMAINS, SEWERS AND UNDERGROUND STRUCTURES AS REQUIRED FOR ALL CONNECTIONS, RELOCATIONS, AND BLANKINGS.
- WATERMAINS CROSSING BELOW OR OVER A SEWER SHALL BE IN ACCORDANCE WITH CITY STANDARD DRAWING W25 AND W25.2.
- PROVIDE A MINIMUM OF 2.4m COVER ON ALL WATERMAINS AND WATER SERVICES. OTHERWISE PROVIDE THERMAL INSULATION AS PER THE CITY STANDARD DRAWING W22 (IN SHALLOW TRENCHES) AND W23 (AT OPEN STRUCTURES).
- WATERMAIN THRUST BLOCKS TO BE CONSTRUCTED PER CITY STANDARD DRAWINGS W25.3 AND W25.4. THRUST BLOCKS ARE REQUIRED AT ALL BENDS, TEES, PLUGS, DEAD END CAPS 150mm and 200mm, VALVES, REDUCERS, OR OTHER FITTINGS WHERE CHANGES OCCUR IN PIPE DIAMETER OR DIRECTION ALL IN ACCORDANCE WITH CURRENT CITY OF OTTAWA STANDARDS AND SPECIFICATIONS.
- 150mm AND 200mm WATER SERVICE LATERALS TO BE PVC DR-18. 19mm WATER SERVICE TO BE PEX. REFER TO WATERMAIN TABLES.
- ALL WATER DISTRIBUTION INFRASTRUCTURE TO BE PROVIDED WITH CATHODIC CORROSION PROTECTION AS PER CITY STANDARD W40.
- HYDRANTS SHALL BE INSTALLED AS PER CITY STANDARD DRAWING W19.
- AT ALL CONNECTION POINTS, REINSTATE SURFACES TO EXISTING CONDITION OR BETTER.
 - ASPHALT RESTORATION SHALL BE IN ACCORDANCE WITH CITY OF OTTAWA STANDARD DRAWING NO. R10.
 - THICKNESS OF GRANULARS AND ASPHALT LAYERS SHALL MATCH EXISTING.
 - BOULEVARDS SHALL BE REINSTATED WITH MINIMUM 100mm TOPSOIL AND SOD.
- SANITARY AND STORM SEWERS EQUAL TO OR LESS THAN 375mm DIA. SHALL BE PVC DR-35. STORM SEWERS GREATER THAN 375mm DIA. TO BE 100-D REINFORCED CONCRETE. SEWERS TO BE INSULATED WHERE MINIMUM COVERAGE OF 2.0m IS NOT ACHIEVED (REFER TO CITY STANDARD DRAWING S35).
- ROOF DRAIN OUTLET TO VERNAL POND TO BE 300mm DIA. PVC DR-35
- ADS STORMTECH TO PROVIDE DETAILED DESIGN OF THREE (3) UNDERGROUND STORMWATER CHAMBERS OR APPROVED EQUIVALENT.
- SERVICES TO BE TERMINATED 1.0m FROM BUILDING WALL (TYPICAL).
- ALL STORM & SANITARY MAINTENANCE HOLES C/W FRAME AND COVER AS PER CITY STANDARD DRAWINGS 24 AND 24.1. SANITARY AND STORM MAINTENANCE HOLES TO HAVE WATERTIGHT COVERS PER OPSD 401.030.
- ALL CATCH BASIN MAINTENANCE HOLES C/W FRAME AND COVERS AS PER CITY STANDARD DRAWING 28.1.
- ALL STREET CATCH BASINS TO BE 600X600mm PRECAST CONCRETE PER OPSD 705.010 C/W FRAME AND COVER AS PER CITY STANDARD DRAWING S19.
- ALL CATCH BASIN LEADS TO BE PVC DR-35 INSTALLED WITH 1% GRADIENT MINIMUM, UNLESS SPECIFIED OTHERWISE ON THE DRAWINGS.
- 6m SUBDRAIN STUBS, WRAPPED IN FILTER SOCK, TO BE INSTALLED ON EITHER SIDE OF EACH CATCH BASIN, APPROXIMATELY 300mm BELOW THE SUBGRADE LEVEL.
- CONCRETE CURB TO BE BARRIER TYPE AS PER STANDARD DRAWING SC1.1.
- CONCRETE SIDEWALKS AND WALKWAYS TO BE CONSTRUCTED AS PER CITY OF OTTAWA DETAIL SC2 (OR SC1.4) AND SC4.
- IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO OBTAIN BENCHMARK INFORMATION FOR THIS SITE.
- EXCAVATION FOR THE INSTALLATION OF SERVICES ALONG OR IN PROXIMITY OF THE BUILDING OR A STRUCTURE IS TO BE CONTAINED WITHIN A TRENCH BOX WIDTH AND IS TO ENSURE NO CONFLICT WITH ANY FUTURE FOOTINGS.
- MATCH EXISTING ELEVATIONS AT PROPERTY LIMITS. FOR ENTIRE SITE ENSURE POSITIVE DRAINAGE TOWARDS A SUITABLE OUTLET WHETHER INDICATED OR NOT.
- ROAD STRUCTURE TO BE CONSTRUCTED IN ACCORDANCE WITH THE GEOTECHNICAL ENGINEER'S RECOMMENDATIONS.
- PAVEMENT DESIGN TO BE IN ACCORDANCE WITH GEOTECHNICAL INVESTIGATION REPORT (DECEMBER 2022) PREPARED BY WSP (Project No. OESA02132):
 - EMPLOYEE PARKING:
 - 40mm ASPHALT SURFACE COURSE (HL-3)
 - 60mm ASPHALT BASE COURSE (HL-8)
 - 150mm BASE - GRANULAR 'A' (OPSS 1010)
 - 350mm SUBBASE - GRANULAR 'B' TYPE II (OPSS 1010)
 - 5-TONNE / TRAILER PARKING / ACCESS ROAD
 - 40mm ASPHALT SURFACE COURSE (HL-3)
 - 80mm ASPHALT BASE COURSE (HL-8)
 - 150mm BASE - GRANULAR 'A' (OPSS 1010)
 - 500mm SUBBASE - GRANULAR 'B' TYPE II (OPSS 1010)
 - ASPHALT COMPACTION TO BE MIN. 96% MAXIMUM RELATIVE DENSITY. GRANULAR COMPACTION TO BE MIN. 100% SPMD.
- THE CONTRACTOR SHALL PROVIDE ALL PAVEMENT MARKINGS AS SHOWN, INCLUDING HANDICAPPED PARKING SYMBOLS.
- ALL GROUNDWATER PUMPED FROM THE SITE TO BE METERED AND A PERMIT TO TAKE WATER OBTAINED AS APPLICABLE.

CANADA POST CORPORATION - OTTAWA PIPE PROCESSING CENTRE
CATCH BASIN TABLE

Discharge Location	Structure ID Number	Structure Dimensions	T/G	Inlet		Outlet		1:5 Yr Restricted Capture Rate (L/s)	Head (M)	ICD TYPE
				Pipe Dia. (mm)	Invert	Pipe Dia. (mm)	Invert			
Bill Leatham Dr	CB01	600 mm x 600 mm	89.77	-	-	200	87.92	-	1.85	NO ICD
Bill Leatham Dr	CB01A	600 mm x 600 mm	89.23	-	-	200	87.43	49	1.80	MHF IPEX TYPE C
Bill Leatham Dr	CB02A	600 mm x 600 mm	89.20	-	-	200	87.40	42	1.80	MHF IPEX TYPE C
Bill Leatham Dr	CB03A	600 mm x 600 mm	89.35	-	-	200	87.55	36	1.80	MHF IPEX TYPE B
Bill Leatham Dr	CBM01	1200 mm dia.	89.77	200	87.78	375	87.73	44	2.04	MHF IPEX TYPE C
Bill Leatham Dr	CBM02	1200 mm dia.	89.59	-	-	450	87.42	94	2.01	CUSTOM 178 mm ICD
Bill Leatham Dr	CBM03	1200 mm dia.	90.13	-	-	375	88.00	66	2.13	MHF IPEX TYPE D
Bill Leatham Dr	CB02	600 mm x 600 mm	89.68	-	-	200	88.11	-	1.57	NO ICD
Bill Leatham Dr	CB03	600 mm x 600 mm	89.68	200	87.93	200	87.88	54	1.80	MHF IPEX TYPE C
Bill Leatham Dr	CB04	600 mm x 600 mm	89.68	-	-	200	88.12	-	1.56	NO ICD
Bill Leatham Dr	CB05	600 mm x 600 mm	89.68	200	87.93	200	87.88	34	1.80	MHF IPEX TYPE B
Bill Leatham Dr	CB06	600 mm x 600 mm	89.55	-	-	200	87.75	86	1.80	MHF IPEX TYPE E
Bill Leatham Dr	CB07	600 mm x 600 mm	89.51	-	-	200	87.71	83	1.80	MHF IPEX TYPE E
Bill Leatham Dr	CB08	600 mm x 600 mm	89.50	-	-	200	87.70	86	1.80	MHF IPEX TYPE E
Bill Leatham Dr	CB09	600 mm x 600 mm	89.80	-	-	200	88.54	-	1.26	NO ICD
Bill Leatham Dr	CB10	600 mm x 600 mm	89.80	200	88.29	200	88.24	-	1.56	NO ICD
Bill Leatham Dr	CB11	600 mm x 600 mm	89.73	-	-	200	88.50	-	1.23	NO ICD
Bill Leatham Dr	CB12	600 mm x 600 mm	89.73	200	88.25	200	88.20	-	1.53	NO ICD
Bill Leatham Dr	CB13	600 mm x 600 mm	89.68	-	-	200	88.46	-	1.22	NO ICD
Bill Leatham Dr	CB14	600 mm x 600 mm	89.68	200	88.21	200	88.16	-	1.52	NO ICD
Bill Leatham Dr	CB15	600 mm x 600 mm	89.64	-	-	200	88.42	-	1.22	NO ICD
Bill Leatham Dr	CB16	600 mm x 600 mm	89.64	200	88.17	200	88.12	-	1.52	NO ICD
Bill Leatham Dr	CB17	600 mm x 600 mm	89.40	-	-	200	87.90	-	1.50	NO ICD
Bill Leatham Dr	CB18	600 mm x 600 mm	89.40	200	87.65	200	87.60	19	1.80	MHF IPEX TYPE C
Bill Leatham Dr	CB19	600 mm x 600 mm	89.39	200	87.64	200	87.59	179	1.67	CUSTOM 258 mm ICD
Bill Leatham Dr	CB20	600 mm x 600 mm	89.35	200	87.60	200	87.55	87	1.80	MHF IPEX TYPE E
Bill Leatham Dr	CB21	600 mm x 600 mm	89.31	200	87.56	200	87.51	87	1.80	MHF IPEX TYPE E
Bill Leatham Dr	CB22	600 mm x 600 mm	89.27	200	87.52	200	87.47	101	1.70	CUSTOM 192 mm ICD
Bill Leatham Dr	CB24	600 mm x 600 mm	90.13	-	-	200	88.33	54	1.80	MHF IPEX TYPE C
Bill Leatham Dr	CB25	600 mm x 600 mm	90.13	-	-	200	88.33	62	1.80	MHF IPEX TYPE D
Bill Leatham Dr	CB26	600 mm x 600 mm	90.13	-	-	200	88.33	58	1.80	MHF IPEX TYPE D
Bill Leatham Dr	CB27	600 mm x 600 mm	89.95	-	-	200	88.15	47	1.80	MHF IPEX TYPE C
Bill Leatham Dr	CB28	600 mm x 600 mm	89.95	-	-	200	88.15	36	1.80	MHF IPEX TYPE B
Bill Leatham Dr	CB29	600 mm x 600 mm	89.53	-	-	200	87.73	69 ⁽¹⁾	1.72	Custom 160 mm ICD
Bill Leatham Dr	StormTech 1 (EAST)	31670 mm x 8870 mm	-	750	87.19	525	87.19	167 ⁽²⁾	1.83	Custom 244 mm ICD
Bill Leatham Dr	StormTech 2 (WEST)	41820 mm x 19950 mm	-	900	86.35	600	86.35	167 ⁽²⁾	1.83	Custom 244 mm ICD
Bill Leatham Dr	MH17	1200 mm dia.	90.03	375	89.88	375	87.61	41	1.14	Custom 143 mm ICD
Bill Leatham Dr	DC1B	600 x 600 mm	89.30	-	-	200	87.50	-	1.80	NO ICD

(1) 1:100 Yr Capture Rate (L/s)
(2) Restricted based on pre-development allowable release rate

EROSION AND SEDIMENTATION CONTROL SYSTEM (ESCS) REQUIREMENTS:

PRIOR TO COMMENCING ANY WORK, THE CONTRACTOR IS REQUIRED TO CONSTRUCT AN EROSION AND SEDIMENTATION CONTROL SYSTEM (ESCS) ON-SITE (IN ADDITION TO THE PROPOSED MEASURES DEPICTED ON THIS DRAWING) TO CONVEY RAINWATER AND/OR PUMPED WATER PRIOR TO ITS DISCHARGE TO THE SURFACE AND/OR TO ANY NATURAL WATER COURSE AND/OR TO ANY EXISTING SEWER SYSTEM. THE CONTRACTOR SHALL CONSTRUCT THE ESCS IN SUCH A WAY AS TO ENSURE THAT THE QUALITY OF THE DISCHARGED PUMP WATER DOES NOT EXCEED THE MORE STRINGENT CRITERIA OF EITHER THE ALLOWABLE TSS CONCENTRATION LIMITS SPECIFIED IN THE PTTW OR 25 MG/L AT ANY TIME.

THE CONTRACTOR SHALL CONSTRUCT AN ESCS TO ACHIEVE THE TURBIDITY AND TSS REMOVAL CRITERIA, REGULARLY MONITOR AND MAINTAIN IT TO ENSURE ONGOING COMPLIANCE. THE CONTRACTOR SHALL TAKE WATER SAMPLES AT THE OUTLET OF THE ESCS TO ENSURE THAT THE TURBIDITY AND TSS REMOVAL CRITERIA ARE MET IN ACCORDANCE WITH CITY OF OTTAWA S.P. NO. F_1004. IF THE ANALYTICAL RESULTS ARE LESS THAN PRESCRIBED CRITERIA, THEN THE CONTRACTOR MAY BEGIN DEWATERING PROVIDED THAT THE QUALITY OF THE WATER REMAINS SUBSTANTIALLY THE SAME AS THE INITIAL MEASURED SAMPLE. SUBSEQUENT WATER SAMPLES SHALL ALSO BE COLLECTED IN ACCORDANCE WITH CITY OF OTTAWA S.P. NO. F_1004.

NOTES:

- SEDIMENT AND EROSION CONTROL MEASURES SHALL BE IMPLEMENTED PRIOR TO WORK AND MAINTAINED DURING THE WORK PHASE BY THE GENERAL CONTRACTOR TO PREVENT ENTRY OF SEDIMENT INTO THE RECEIVING STREAM. ALL SEDIMENT AND EROSION CONTROL MEASURES SHALL BE INSPECTED DAILY BY THE GENERAL CONTRACTOR TO ENSURE THAT THEY ARE FUNCTIONING PROPERLY AND ARE BEING MAINTAINED AND/OR UPGRADED AS REQUIRED. IF THE SEDIMENT AND EROSION CONTROL MEASURES ARE NOT FUNCTIONING PROPERLY, NO FURTHER WORK SHALL OCCUR UNTIL THE PROBLEM HAS BEEN ADDRESSED AND RECTIFIED.
- ALL MATERIALS AND EQUIPMENT USED FOR THE PURPOSE OF SITE PREPARATION AND PROJECT COMPLETION SHALL BE OPERATED AND STORED IN A MANNER THAT PREVENTS ANY DELETERIOUS SUBSTANCES (I.E. PETROLEUM PRODUCTS, SILT, ETC.) FROM ENTERING THE RECEIVING STREAM.
- VEHICLE AND EQUIPMENT RE-FUELLING AND MAINTENANCE SHALL BE CONDUCTED AWAY FROM DRAINAGE CHANNELS IN A CONTROLLED MANNER TO PREVENT FUEL SPILLAGE.
- ANY PART OF EQUIPMENT ENTERING DRAINAGE CHANNELS SHALL BE FREE OF FLUID LEAKS AND EXTERNALLY CLEANED/DEGREASED TO PREVENT ANY DELETERIOUS SUBSTANCES FROM ENTERING THE WATER.
- STOCKPILED MATERIALS SHOULD BE STORED AND STABILIZED AWAY FROM THE WATER.
- SEDIMENT AND EROSION CONTROL MEASURES MAY BE MODIFIED IN THE FIELD AT THE DISCRETION OF THE CITY SITE INSPECTOR, ENGINEER AND/OR THE LOCAL CONSERVATION AUTHORITY.
- INSPECTIONS AND REPAIR OF SEDIMENT AND EROSION CONTROLS WILL BE CONDUCTED AS SOON AS POSSIBLE FOLLOWING ANY RAIN EVENTS.
- WORKS WILL NOT BE CONSIDERED COMPLETE UNTIL ALL SEDIMENT CONTROLS ARE REMOVED.
- STRAW BALE BARRIERS OR EQUIVALENT SHOULD BE PLACED AT WATER DISCHARGE POINTS TO PREVENT EROSION AND SEDIMENT RELEASE.
- ONLY MATERIAL FREE OF FINE PARTICULATE MATTER SHOULD BE PLACED IN THE WATER.
- ALL MATERIALS AND EQUIPMENT USED FOR THE PURPOSE OF SITE PREPARATION AND PROJECT COMPLETION SHOULD BE OPERATED AND STORED IN A MANNER THAT PREVENTS ANY DELETERIOUS SUBSTANCE FROM ENTERING THE WATER.
- ALL EQUIPMENT OPERATING NEAR THE WATER SHOULD BE EQUIPPED WITH A SPILL KIT.
- ANY ACCIDENTAL DISCHARGES OF SEDIMENT MATERIAL INTO THE WATER/COURSE SHOULD BE IMMEDIATELY REPORTED TO THE ENGINEER. APPROPRIATE RESPONSE MEASURES, INCLUDING ANY REPAIRS TO EXISTING CONTROL MEASURES OR THE IMPLEMENTATION OF ADDITIONAL CONTROL MEASURES, SHALL BE CARRIED OUT BY THE CONTRACTOR WITHOUT DELAY.
- ALL SEDIMENTATION CONTROL MEASURES SHALL BE IMPLEMENTED AND CONSTRUCTED PER THE CURRENT OPSS AND OPSD.
- IF REQUIRED A MUD MAT IS TO BE BUILT AT THE SITE ENTRANCES TO PREVENT THE TRANSPORT OF SEDIMENT ONTO PAVED SURFACES.

File Location: P:\310005\1940-000 - CFC Ottawa and Vancouver Processing Centre\Production\1-Civil\31940-000 C SERVICING.dwg

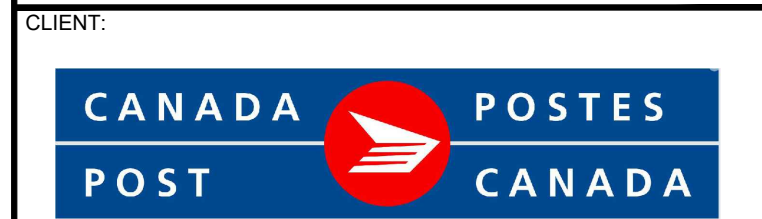
2	ADDRESS CITY COMMENTS	07/09/23
1	ISSUED FOR SITE PLAN CONTROL	28/06/23
0	ISSUED FOR SITE PLAN CONTROL	16/06/23

No.	ISSUE / REVISION	DDMMYY
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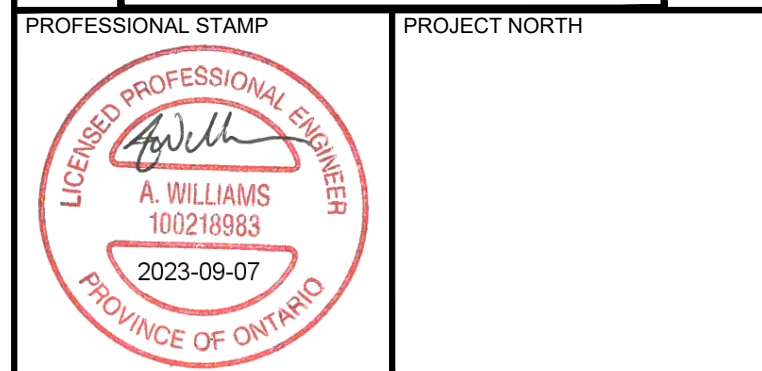
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VERIFY SHEET SIZE AND SCALES. THE BAR TO THE RIGHT IS 25mm IF THIS IS A FULL SIZE DRAWING. 0 25mm

SCALE:



CLIENT:



PROJECT:
CANADA POST CORPORATION
OTTAWA PROCESSING CENTRE
50 LEIKIN DRIVE OTTAWA, ONTARIO

DESIGN: AW	DRAWING #:
DRAWN: NQ/KT	C07
CHECKED: LJ	
JLR #: 31940-000	

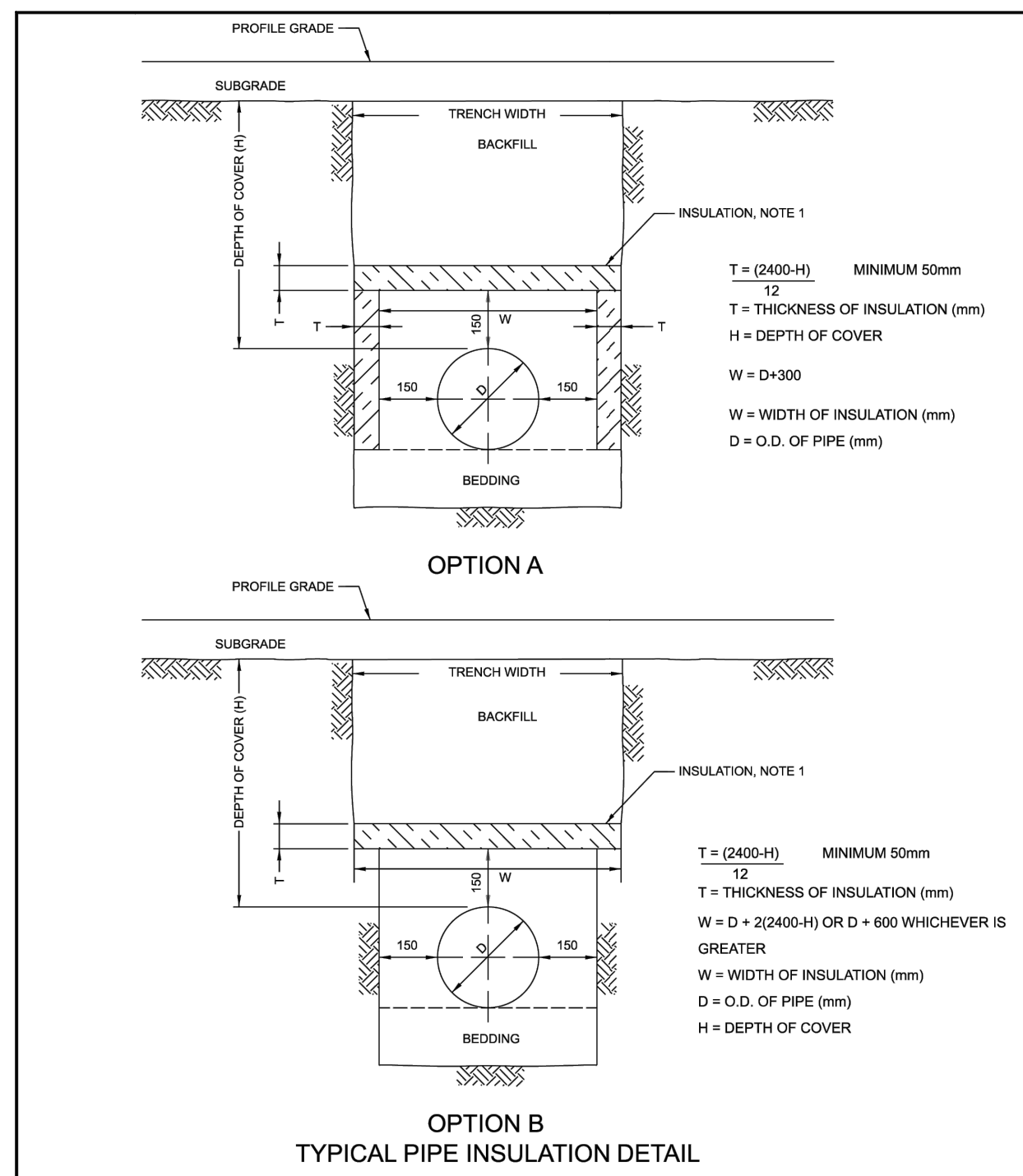
Plot Date: September 7, 2023 3:52:59 PM
CITY PLAN No. 19018 CITY FILE No. D07-12-23-0082

WATERMAIN TABLE PVC DR-18 - STA 0+000 to 0+089				
SIZE	STATION ALONG WM	DETAIL	FINISHED GRADE	TOP OF WM
200mmØ	0+000	CONNECTION TO EXISTING WM	89.89	87.49
	0+005.15	45° VERTICAL BEND (WM CROSSING OVER STORM)	89.97	87.49
	0+005.93	45° VERTICAL BEND (WM CROSSING OVER STORM)	89.96	87.8
	0+008.98	45° VERTICAL BEND (WM CROSSING OVER STORM)	89.96	87.8
	0+009.75	45° VERTICAL BEND (WM CROSSING OVER STORM)	89.96	87.49
	0+010		89.85	87.45
	0+016.01	VALVE AND VALVE BOX	89.94	87.54
	0+020		90.14	87.6
	0+030		90.64	87.7
	0+040		90.42	87.8
	0+050		90.31	87.91
	1+058.27	45° VERTICAL BEND (WM CROSSING UNDER STORM)	90.31	87.91
	1+056.78	45° VERTICAL BEND (WM CROSSING UNDER STORM)	90.27	87.02
	1+059.31	45° VERTICAL BEND (WM CROSSING UNDER STORM)	90.34	87.02
1+059.83	45° VERTICAL BEND (WM CROSSING UNDER STORM)	90.36	87.02	
0+060		90.37	87.97	
0+065.04	200x200 TEE	90.48	88.02	
0+070		90.62	88.22	
0+072.14	REDUCER TO 150mm	90.64	88.24	
150mmØ	0+080		91.03	88.63
	0+088.39	CAP	91.08	88.68

WATERMAIN TABLE PVC DR-18 - STA 1+000 to 1+089				
SIZE	STATION ALONG WM	DETAIL	FINISHED GRADE	TOP OF WM
200mmØ	1+000	CONNECTION TO EXISTING WM	89.89	87.49
	1+005.15	45° VERTICAL BEND (WM CROSSING OVER STORM)	89.98	87.49
	1+005.93	45° VERTICAL BEND (WM CROSSING OVER STORM)	89.98	87.8
	1+008.98	45° VERTICAL BEND (WM CROSSING OVER STORM)	89.98	87.8
	1+009.75	45° VERTICAL BEND (WM CROSSING OVER STORM)	89.97	87.49
	1+010		89.85	87.45
	1+015.63	VALVE AND VALVE BOX	89.96	87.56
	1+020		90.14	87.6
	1+030		90.64	87.7
	1+040		90.41	87.9
	1+050		90.37	87.91
	1+056.27	45° VERTICAL BEND (WM CROSSING UNDER STORM)	90.31	87.91
	1+056.78	45° VERTICAL BEND (WM CROSSING UNDER STORM)	90.33	87.04
	1+059.31	45° VERTICAL BEND (WM CROSSING UNDER STORM)	90.4	87.04
1+059.83	45° VERTICAL BEND (WM CROSSING UNDER STORM)	90.42	87.04	
1+060		90.42	88.02	
1+062.38	45° HORZ BEND	90.47	88.02	
1+065.60	45° HORZ BEND	90.51	88.02	
1+070		90.41	88.01	
1+072.67	REDUCER TO 150mm	90.68	88.28	
150mmØ	1+080		91.03	88.63
	1+088.91	CAP	91.08	88.68

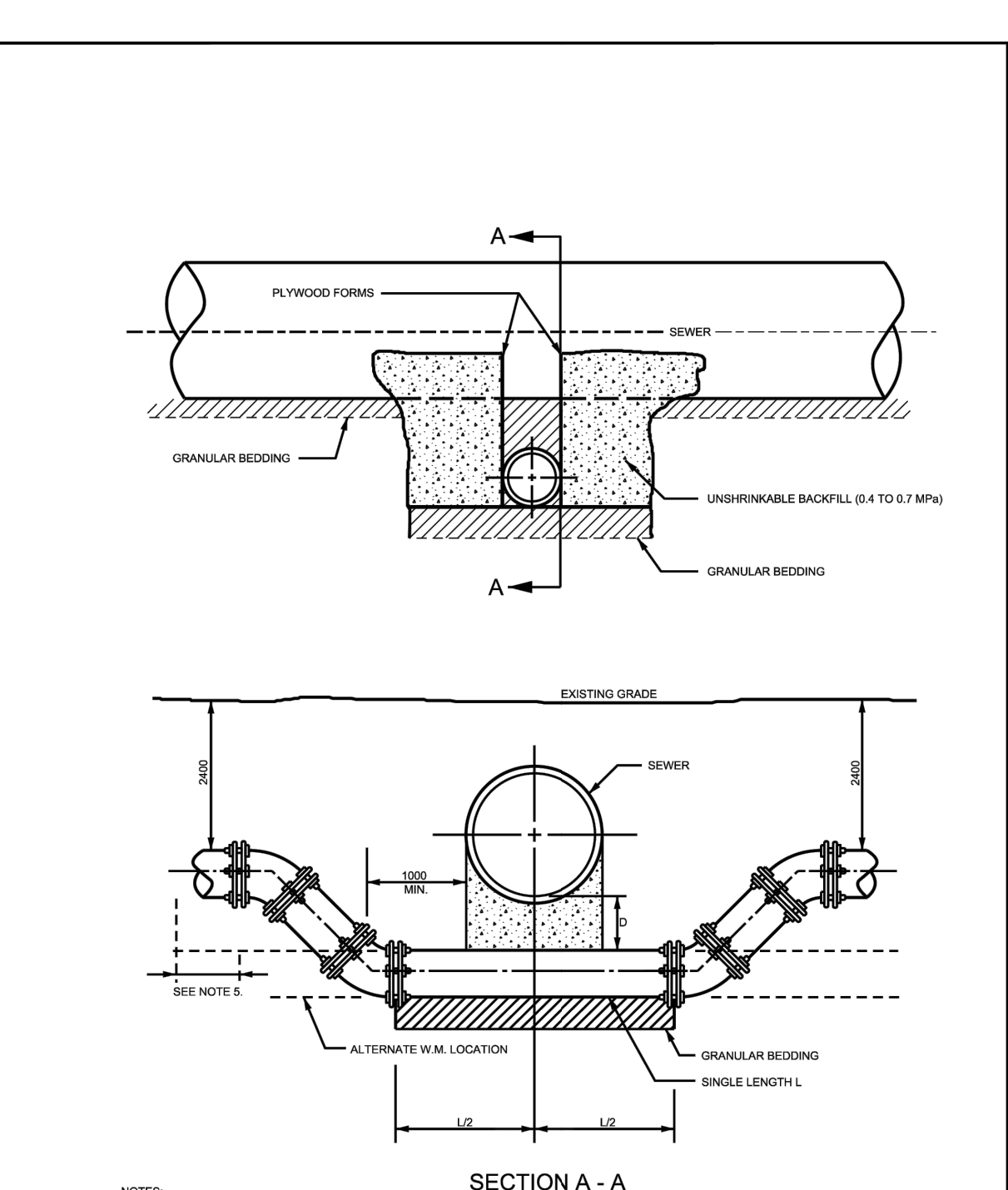
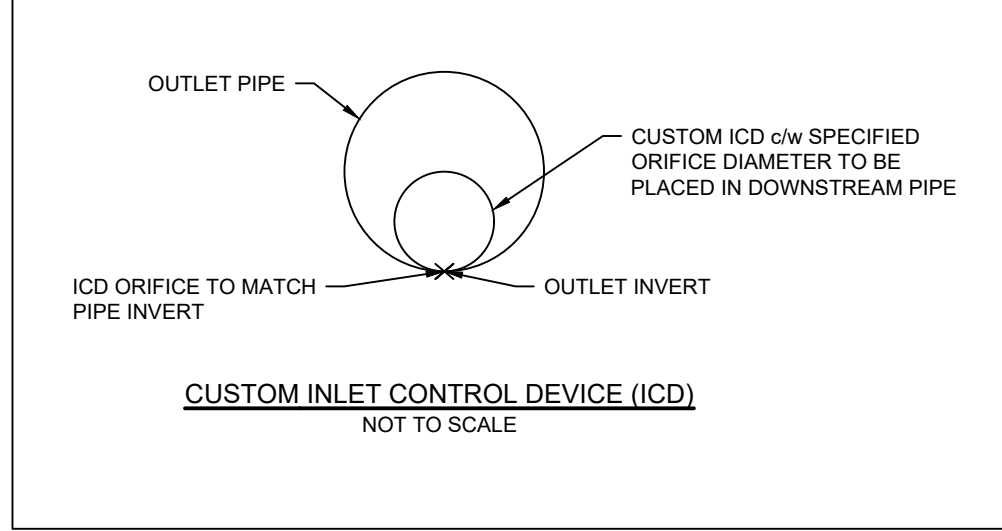
WATERMAIN TABLE PEX - STA 2+000 to 2+072				
SIZE	STATION ALONG WM	DETAIL	FINISHED GRADE	TOP OF WM
19mmØ	2+000	CONNECTION AT BUILDING	89.9	87.5
	2+003.95	VALVE AND VALVE BOX	89.85	87.45
	2+010		89.76	87.36
	2+020		89.65	87.25
	2+030	WATER SERVICE CROSSING OVER STORM C/W INSULATION	89.67	87.86
	2+040		89.66	87.26
	2+050		89.81	87.41
	2+060		89.96	87.56
	2+070		90.09	87.69
	2+072	CONNECTION AT GATEHOUSE	90.27	87.87

WATERMAIN TABLE PEX - STA 3+000 to 3+031				
SIZE	STATION ALONG WM	DETAIL	FINISHED GRADE	TOP OF WM
200 mmØ	3+000	200x200 TEE	90.48	88.08
	3+007.10	REDUCER TO 150mm	90.44	88.04
	3+020		90.55	88.15
	3+028.91	VALVE AND VALVE BOX	90.73	88.31
	3+030		90.72	88.31
	3+030.71	HYDRANT	90.71	88.31



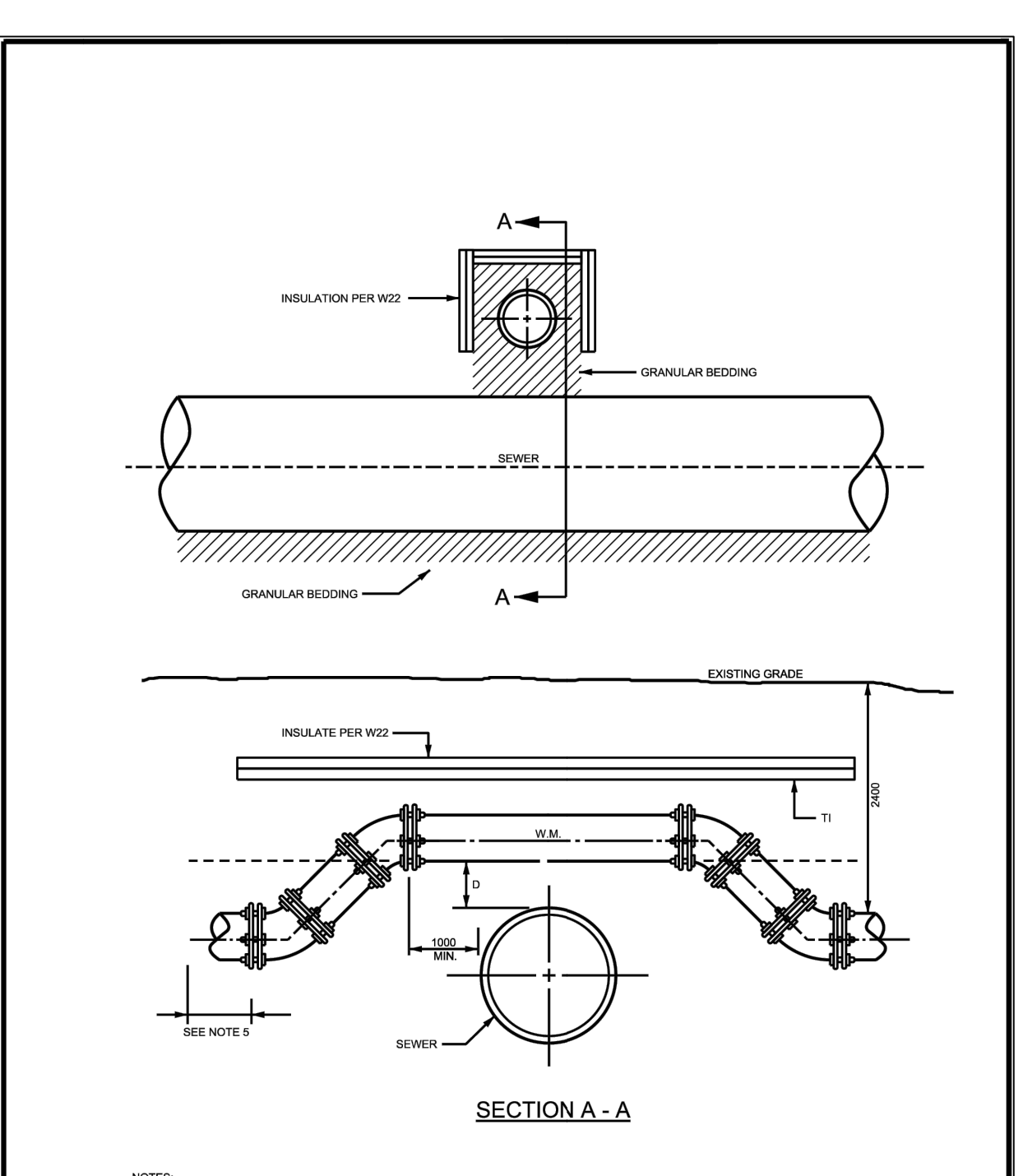
Ottawa INSULATION FOR SHALLOW SEWERS

DATE: MARCH 2023
REV. DATE: --
DWG. No.: S35



Ottawa WATERMAIN CROSSING BELOW SEWER

DATE: MAY 2021
REV. DATE: MARCH 2021
DWG. No.: W25



Ottawa WATERMAIN CROSSING OVER SEWER

DATE: MAY 2021
REV. DATE: MARCH 2021
DWG. No.: W25.2

CROSSINGS

CROSSING 'A': 19mmØ WATER SERVICE TO CROSS OVER 900mmØ STORM SEWER.
BOTTOM OF WM = 87.86 m
ST SEWER OBVERT = 87.49 m
CLEARANCE = 0.37 m

CROSSING 'B': 200mmØ SANITARY SEWER TO CROSS OVER 900mmØ STORM SEWER.
SAN SEWER INVERT = 88.04 m
ST SEWER OBVERT = 87.48 m
CLEARANCE = 0.56 m

CROSSING 'C': 200mmØ SANITARY SEWER TO CROSS UNDER 600mmØ STORM SEWER.
SAN SEWER OBVERT = 86.77 m
ST SEWER BOTTOM = 87.03 m
CLEARANCE = 0.26 m

CROSSING 'D': 200mmØ WATERMAIN TO CROSS UNDER 525mmØ STORM SEWER.
TOP OF WM = 87.02 m
ST SEWER INVERT = 87.61 m
CLEARANCE = 0.59 m

CROSSING 'E': 200mmØ WATERMAIN TO CROSS UNDER 525mmØ STORM SEWER.
TOP OF WM = 87.04 m
ST SEWER INVERT = 87.63 m
CLEARANCE = 0.59 m

CROSSING 'F': 300mmØ STORM SEWER TO CROSS OVER 750mmØ STORM SEWER.
300mmØ ST SEWER INVERT = 89.28
750 mmØ ST SEWER OBVERT = 88.06 m
CLEARANCE = 1.22 m

CROSSING 'G': 750mmØ STORM SEWER TO CROSS UNDER 300mmØ WATERMAIN.
ST SEWER TOP = 86.40 m
BOTTOM OF WM = 86.75 m
CLEARANCE = 0.35 m

CROSSING 'H': 750mmØ STORM SEWER TO CROSS OVER 375mmØ SANITARY SEWER.
750mmØ ST SEWER OBVERT = 84.52 m
ST SEWER BOTTOM = 85.39 m
CLEARANCE = 0.87 m

CROSSING 'I': 200mmØ SANITARY SEWER TO CROSS UNDER 300mmØ WATERMAIN.
SAN SEWER OBVERT = 86.45 m
BOTTOM OF WM = 86.75 m
CLEARANCE = 0.30 m

CROSSING 'J': 200mmØ WATERMANS TO CROSS OVER 1050mmØ STORM SEWER AND 750mmØ SANITARY SEWER.
BOTTOM OF WM = 87.60 m
ST SEWER OBVERT = 87.29 m
SAN SEWER OBVERT = 82.84 m
CLEARANCE = 0.31 m

2	ADDRESS CITY COMMENTS	07/09/23
1	ISSUED FOR SITE PLAN CONTROL	26/06/23
0	ISSUED FOR SITE PLAN CONTROL	16/06/23
No.	ISSUE / REVISION	DDMMYY
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VERIFY SHEET SIZE AND SCALES. THE BAR TO THE RIGHT IS 25mm IF THIS IS A FULL SIZE DRAWING. 0 25mm		
SCALE:		

CLIENT:

CANADA POSTES
POST CANADA

CONSULTANT:

JLR J.L. Richards
ENGINEERS - ARCHITECTS - PLANNERS

CONSULTANT:

Colliers Project Leaders

PROFESSIONAL STAMP

LICENSED PROFESSIONAL ENGINEER
A. WILLIAMS
1002-10363
2023-09-07
PROVINCE OF ONTARIO

PROJECT NORTH

PROJECT:

CANADA POST CORPORATION
OTTAWA PROCESSING CENTRE

50 LEIKIN DRIVE OTTAWA, ONTARIO

DRAWING:

GENERAL NOTES

DESIGN: AW
DRAWN: NQ/KT
CHECKED: LJ
JLR #: 31940-000

DRAWING #:
C08

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PLOT DATE: September 7, 2023 3:52:55 PM
CITY PLAN No. 19018 CITY FILE No. D07-12-23-0082