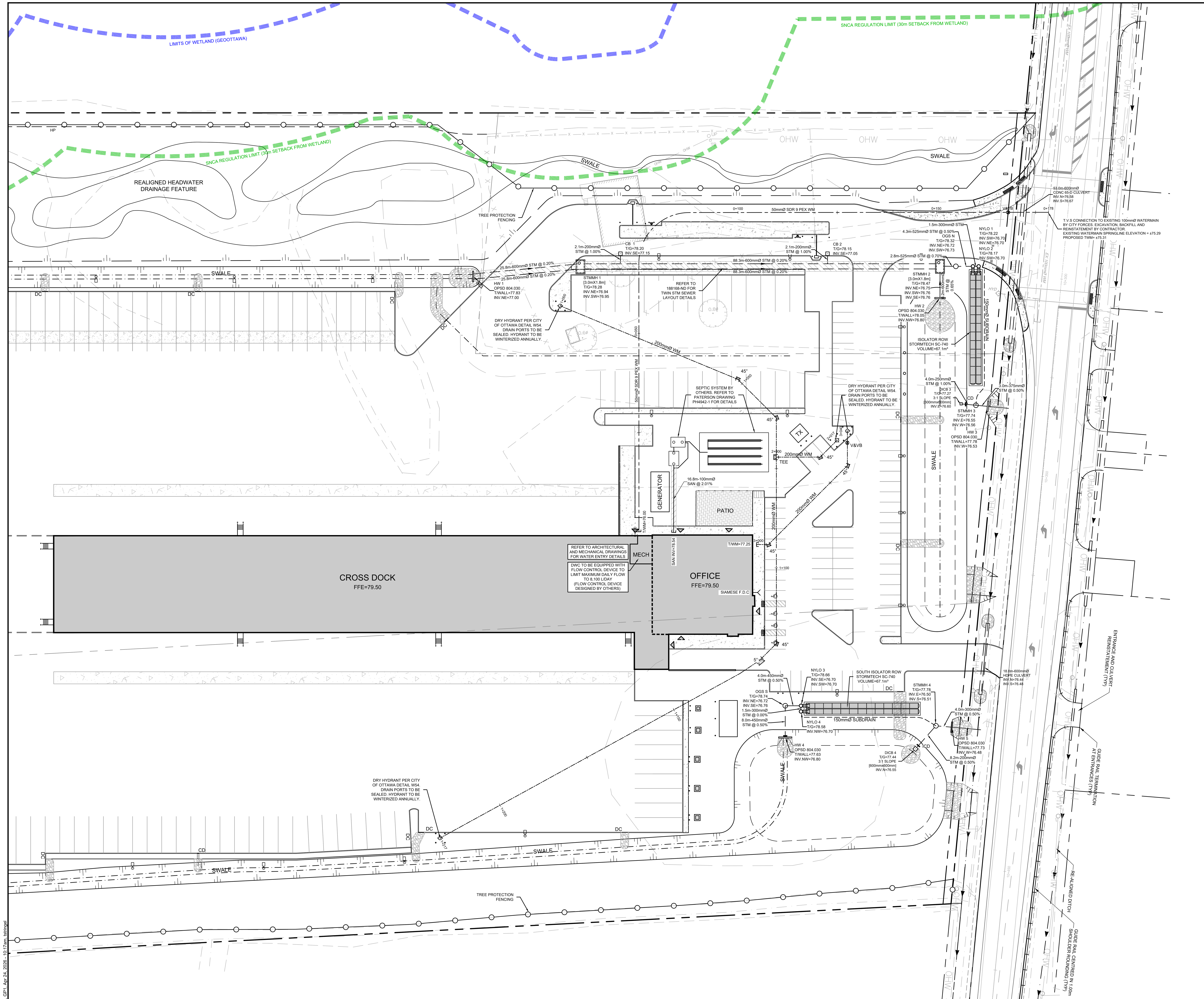

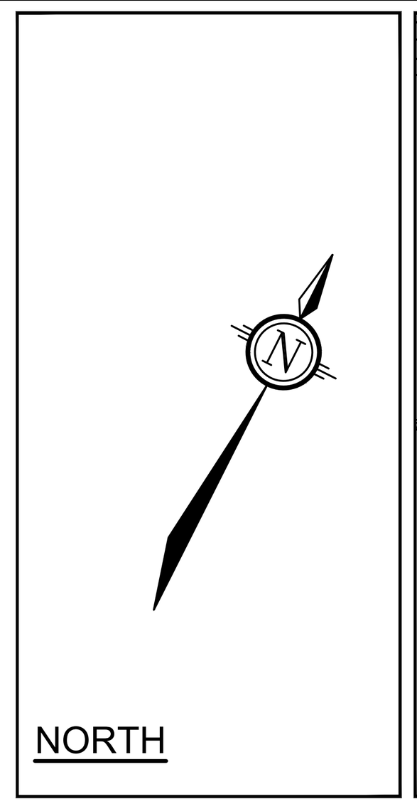

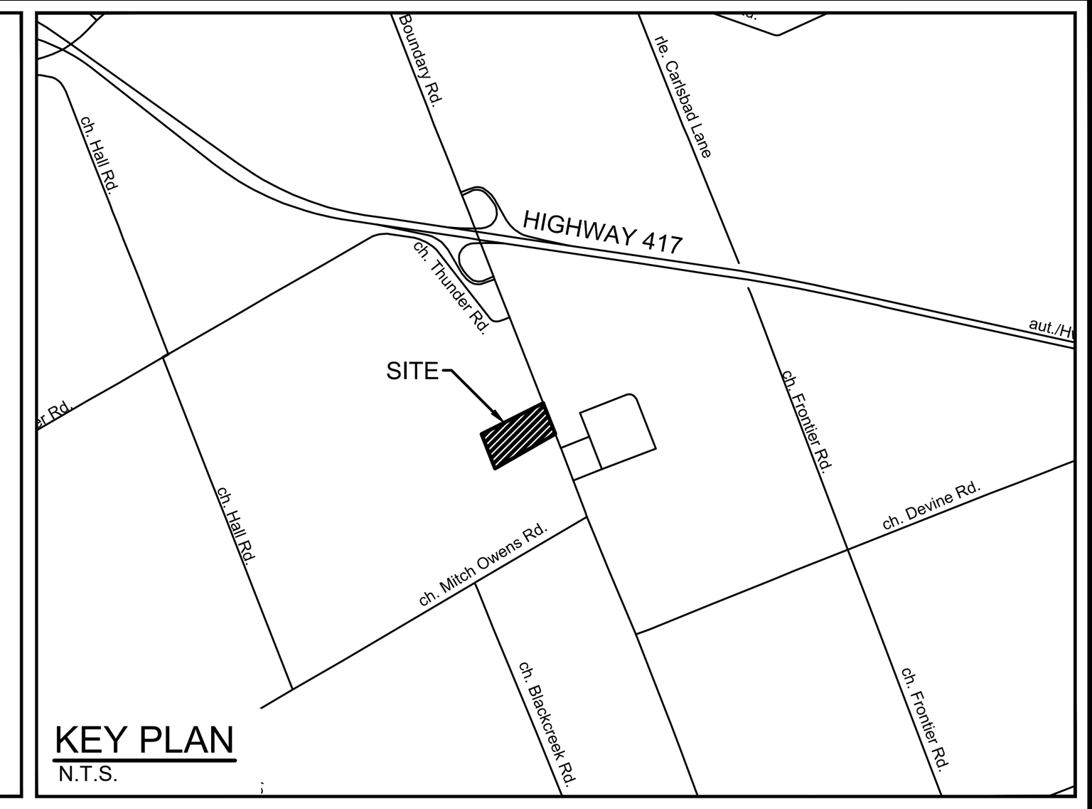

LEGEND

- BOREHOLE
- TEST PIT
- PROPERTY LINE
- PROPOSED SECURITY FENCE (REFER TO LANDSCAPE)
- PROPOSED CURB
- DC — PROPOSED DEPRESSED CURB
- CD — PROPOSED CURB DRAIN (REFER TO DETAIL ON GRADING PLANS 118168-GR1&2)
- TACTILE WALKING SURFACE INDICATOR (TWSI) PER CITY DETAIL SC7.3
- SWALE AND DIRECTION OF FLOW
- PROPOSED PIPE INSULATION (REFER TO CITY OF OTTAWA DETAIL S35 ON 118168-ND)
- PROPOSED BUILDING ENTRANCE
- DIRECTION OF MAJOR OVERLAND FLOW
- PROPOSED RIP RAP c/w NON WOVEN GEOTEXTILE
- PROPOSED WATERMAIN
- PROPOSED STORM SEWER AND MANHOLE
- PROPOSED CATCHBASIN MANHOLE
- ICD — PROPOSED INLET CONTROL DEVICE
- TERRACING 2.5:1 SLOPE MAX (UNLESS OTHERWISE INDICATED)
- BOTOM OF SLOPE
- PROPOSED SITE LIGHTING (REFER TO ARCHITECTURAL DRAWINGS)
- PROPOSED DRY HYDRANT PER CITY OF OTTAWA DETAIL W54

R-1 to R-13 ROOF DRAIN TABLE - PROPOSED BUILDING ROOF

ROOF DRAIN MODEL No.	ROOF DRAIN OPENING SETTING	1:5 YEAR RELEASE RATE	APPROX. 100 YR PONDING DEPTH	1:100 YEAR RELEASE RATE
RD - 100 - A - ADJ	FULLY OPEN	16.38 L/S	0.15	24.61 L/S

* REFER TO THE 'SERVICING AND STORMWATER MANAGEMENT REPORT' R-2024-095 PREPARED BY NOVATECH FOR DRAINAGE AREA IDs AND SWM DETAILS.

**ALL 13 CONTROLLED FLOW ROOF DRAINS FOR THE PROPOSED BUILDING TO BE WATTS ADJUSTABLE ACCUTROL ROOF DRAINS

INLET CONTROL DEVICE @ DICB 3

DESIGN EVENT	ICD TYPE AND SIZE	DIAMETER OF OUTLET PIPE (mm)	DESIGN FLOW (L/s)	DESIGN HEAD (m)
1:5 YEAR	PLATE 152mm	250	40.0	0.91
1:100 YEAR	PLATE 152mm	250	40.0	0.99

INLET CONTROL DEVICE @ DICB 4

DESIGN EVENT	ICD TYPE AND SIZE	DIAMETER OF OUTLET PIPE (mm)	DESIGN FLOW (L/s)	DESIGN HEAD (m)
1:5 YEAR	PLATE 83mm	200	11.0	0.70
1:100 YEAR	PLATE 83mm	200	13.0	0.96

PROPOSED 50mmØ WATERMAIN TABLE

STATION	SURFACE ELEVATION	T/WM ELEVATION	COMMENTS
0+000.0	79.48	76.00	CAP 1.0m FROM BUILDING FACE
0+025.0	78.13	75.73	-
0+048.5	78.09	75.69	CROSS OVER 200mmØ WM (0.5m CLEARANCE PER W25)
0+050.0	78.09	76.69	CROSS BELOW 450mmØ STM
0+075.0	78.62	76.22	-
0+100.0	78.77	76.37	-
0+125.0	78.36	75.96	-
0+150.0	78.56	75.74	-
0+172.7	77.84	75.44	STANDPOST
0+175.0	77.78	75.38	-
0+178.0	77.80	±75.31	CONNECT TO EXISTING 100mmØ WM

PROPOSED 200mmØ REMOTE HYDRANT WATERMAIN TABLE

STATION	SURFACE ELEVATION	T/WM ELEVATION	COMMENTS
1+000.0	78.16	75.76	DRY HYDRANT
1+022.5	78.09	75.00	CROSS UNDER 50mmØ WM (0.5m CLEARANCE PER W25)
1+025.0	78.08	75.00	-
1+048.5	78.42	76.00	45° BEND
1+050.0	78.46	76.00	-
1+062.2	78.42	76.00	45° BEND
1+072.1	78.86	76.20	200mm X 200mm TEE
1+092.2	79.00	76.60	CROSS UNDER 200mmØ WM (0.45m CLEARANCE)
1+100.0	79.09	76.60	-
1+119.0	78.99	76.60	45° BEND
1+125.0	79.04	76.60	5° BEND
1+150.0	78.38	75.98	-
1+175.0	77.91	75.51	-
1+200.0	77.66	75.24	-
1+217.0	77.64	75.24	DRY HYDRANT

PROPOSED 200mmØ REMOTE HYDRANT WATERMAIN TABLE

STATION	SURFACE ELEVATION	T/WM ELEVATION	COMMENTS
2+000.0	78.86	76.21	TEE CONNECT TO 200mmØ
2+011.0	78.55	76.15	45° BEND
2+017.0	78.56	76.15	DRY HYDRANT

PROPOSED 200mmØ REMOTE HYDRANT WATERMAIN TABLE

STATION	SURFACE ELEVATION	T/WM ELEVATION	COMMENTS
3+000.0	79.32	77.25	CAP 1.0m FROM BUILDING FACE
3+003.0	79.09	77.25	45° BEND
3+005.8	79.00	77.25	CROSS OVER 200mmØ WM (0.45m CLEARANCE)
3+025.0	78.57	76.17	
3+031.2	78.45	76.05	45° BEND
3+037.0	78.38	75.98	VALVE & VALVE BOX
3+040.0	78.50	76.10	DRY HYDRANT

NOTE:
THE POSITION OF ALL POLE LINES, CONDUITS, WATERMAINS, SEWERS AND OTHER UNDERGROUND AND OVERGROUND UTILITIES AND STRUCTURES IS NOT NECESSARILY SHOWN ON THE CONTRACT DRAWINGS, AND WHERE SHOWN, THE ACCURACY OF THE POSITION OF SUCH UTILITIES AND STRUCTURES IS NOT GUARANTEED. BEFORE STARTING WORK, DETERMINE THE EXACT LOCATION OF ALL SUCH UTILITIES AND STRUCTURES AND ASSUME ALL LIABILITY FOR DAMAGE TO THEM.

No.	REVISION	DATE	BY
11.	REVISED PER SNCA COMMENTS	APR 24/2026	MJH
10.	REVIED PER OFS COMMENTS	APRIL 9/2026	MJH
9.	REVISED PER CITY COMMENTS	FEB 20/2026	MJH
8.	REVISED PER CITY AND SNCA COMMENTS	NOV 14/025	MJH
7.	REVISED PER BUILDING PERMIT COMMENTS	APR 22/2025	MJH
6.	ISSUED FOR BUILDING PERMIT	OCT 24/2024	MJH
5.	ISSUED FOR 90% SUBMISSION	OCT 4/2024	MJH
4.	ISSUED FOR SPA	OCT 3/2024	MJH
3.	ISSUED FOR 60% SUBMISSION	AUG 16/2024	MJH
2.	ISSUED FOR 30% SUBMISSION	JUNE 27/2024	MJH
1.	COORDINATION	MAR 7/2024	MJH

SCALE 1:400

DESIGN MJH · CHECKED JLS · DRAWN MJH · CHECKED JLS · APPROVED MJH

FOR REVIEW ONLY

LICENSED PROFESSIONAL ENGINEER M.J. HREHORIAK 100211256 APR 24 2026 PROVINCE OF ONTARIO

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LOCATION
CITY OF OTTAWA
5110 BOUNDARY ROAD

DRAWING NAME
GENERAL PLAN OF SERVICES

PROJECT No. 118168
REV # 11
DRAWING No. 118168-GP
D07-12-24-0117
PLAN # 19296

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