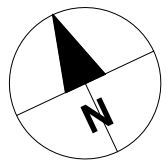
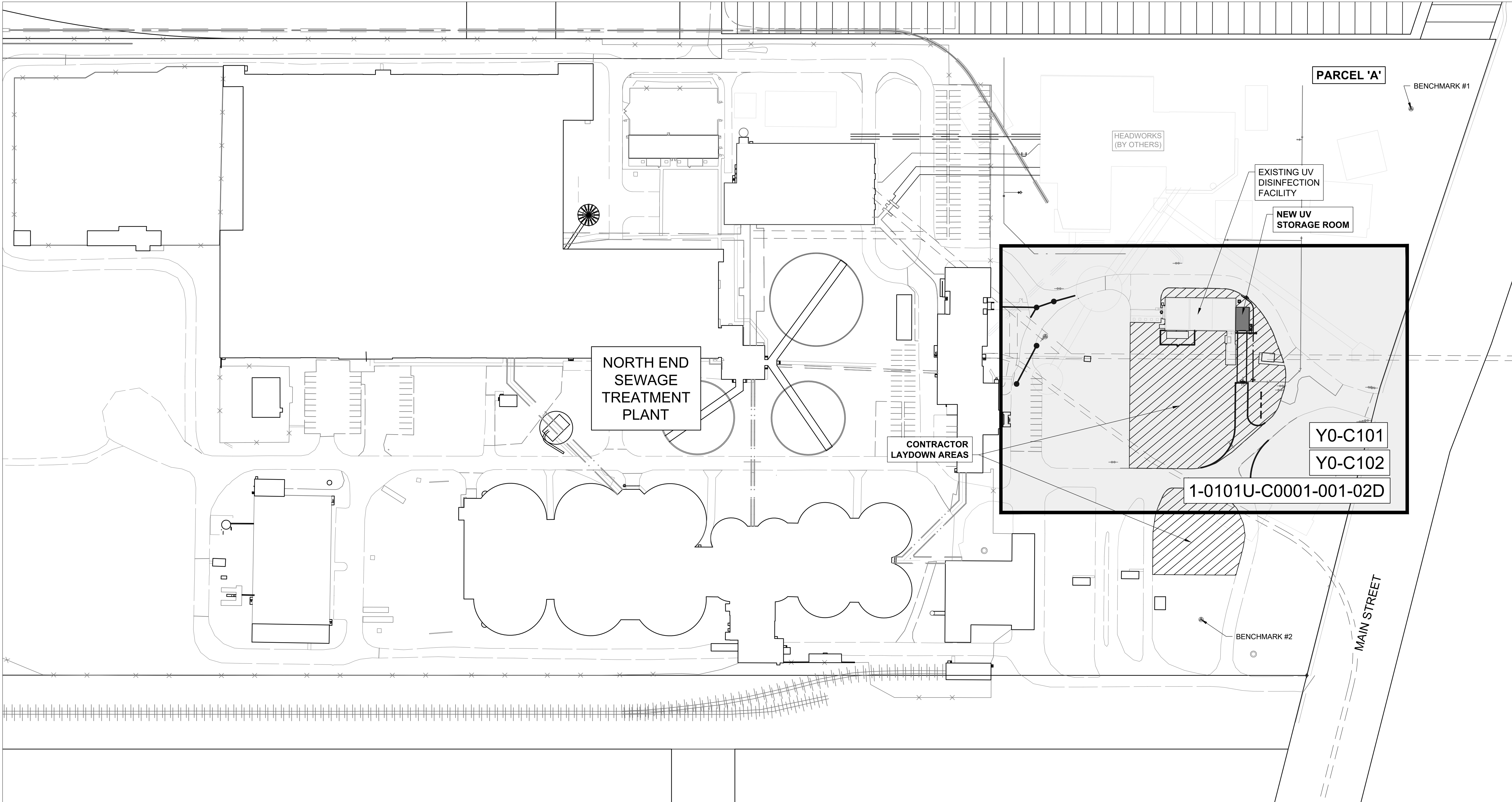


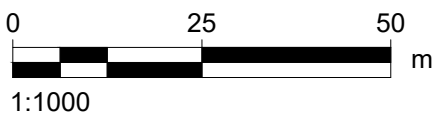
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PRE-EXISTING DRAWING NOTE:

1. THE 'UV UPGRADES' DRAWING SET INCLUDES PRE-EXISTING DRAWINGS FROM THE PREVIOUS 'NEWPCC - SECONDARY EFFLUENT UV DISINFECTION FACILITY PROJECT'. THESE PRE-EXISTING DRAWINGS ARE INTENDED TO BE USED AS REFERENCE, BUT HAVE ALSO BEEN UPDATED WITH NEW DESIGN INFORMATION, AS PART OF A 'LIFE-CYCLE' APPROACH BEING ADOPTED BY THE CITY. SINCE THE PRE-EXISTING DRAWINGS ARE SHOWING AS-BUILT / RECORD INFORMATION FROM A PREVIOUS PROJECT, THOSE DRAWINGS MAY POSSIBLY SHOW INFORMATION (ELEVATIONS, INVERTS, DISTANCES, ETC.) THAT DIFFER FROM THE MORE CURRENT/UP-TO-DATE, NEWLY CREATED DRAWINGS IN THIS SET. ANY DISCREPANCIES IDENTIFIED BY THE CONTRACTOR, ARE TO BE COORDINATED WITH THE CONTRACT ADMINISTRATOR. ANY WORK INSTALLED AT THE INCORRECT ELEVATIONS, LOCATION, ETC. ARE TO BE RECTIFIED AT THE CONTRACTOR'S COST.

SITE PLAN
1:1000



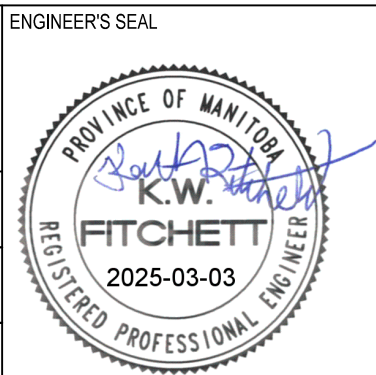
**ENGINEERS
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Certificate of Authorization
AECOM Canada ULC
No. 4671

METRIC
WHOLE NUMBERS INDICATE MILLIMETRES
DECIMALIZED NUMBERS INDICATE METRES

00	ISSUED FOR TENDER	2025-02-26	KWF	PB
NO.	REVISIONS	DATE	DESIGN	CHECK

AECOM

DESIGNED BY: KWF	CHECKED BY: PB
DRAWN BY: JP	APPROVED BY: NW
SCALE:	RELEASED FOR CONSTRUCTION BY:
DATE: 2023-07-24	DATE:
CONSULTANT NO.:	Y0-C001



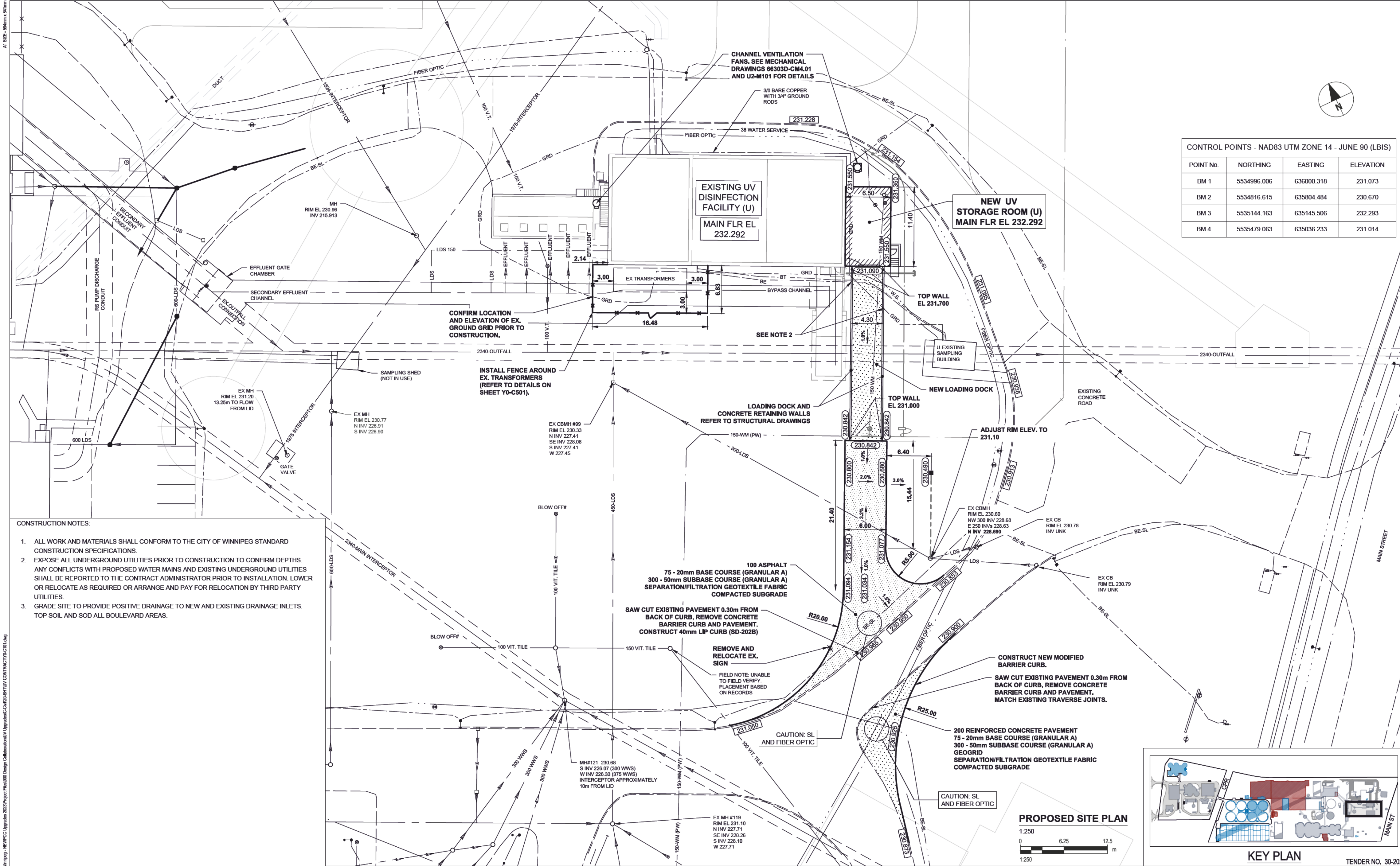
THE CITY OF WINNIPEG
WATER AND WASTE DEPARTMENT

NORTH END SEWAGE TREATMENT PLANT
NEWPCC UV UPGRADES
CIVIL
LOCATION PLAN

CITY DRAWING NUMBER	SHEET	REV.	SIZE
		00	A1

TENDER NO. 30-2025

LAST SAVE: 2025/02/27 15:24 AM
PATH: C:\Users\mjohnson\OneDrive\Documents\City of Winnipeg - NEWPCC Upgrades\2025\Project Files\910 Design Collaboration\UV Upgrades\CD-COM-25\UTUV CONTRACT\YV-C101.dwg



150 WM	WATERMAIN	150 WM	100 VIT. TILE	CURB STOP	150 WM (PW)	LIP CURB	100 VIT. TILE
HYDRANT	REDUCER	MODIFIED BARRIER CURB					
VALVE	COUPLING	RAMP CURB					
300 LDS	LAND DRAINAGE SEWER	300 LDS	150 VIT. TILE	HYDRO	230.850	GRADE	(231.000)
250 WWS	WASTE WATER SEWER	250 WWS	100 VIT. TILE	MTS		CONTOUR ELEVATION	
MANHOLE	MANHOLE	MANHOLE	100 VIT. TILE	GAS		SWALE	
CATCH BASIN	CATCH BASIN	CATCH BASIN	100 VIT. TILE	GROUND GRID (GRD)		POTABLE WATER	PW
CURB INLET	CURB INLET	CURB INLET	100 VIT. TILE	BURIED TELECOM. (BT)		DRAINAGE DIRECTION	
SUBDRAIN	SUBDRAIN	SUBDRAIN	100 VIT. TILE	BURIED ELECTRICAL (BE)		FLUSHING WATER	FSW
FENCE	FENCE	FENCE	100 VIT. TILE	ASPHALT		AIR VALVE RELEASE	
SURVEY BAR	SURVEY BAR	SURVEY BAR	100 VIT. TILE	CONCRETE		EXISTING SIDEWALK	
EXISTING	LEGEND - PLAN	NEW	EXISTING	LEGEND - PLAN	NEW	EXISTING	LEGEND - PLAN



METRIC
WHOLE NUMBERS INDICATE MILLIMETRES
DECIMALIZED NUMBERS INDICATE METRES

00	ISSUED FOR TENDER	2025-02-26	RC	PB
NO.	REVISIONS	DATE	DESIGN	CHECK

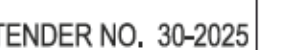
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DESIGNED BY: RC	CHECKED BY: PB
DRAWN BY: JP	APPROVED BY: NW
SCALE: 1:250	RELEASED FOR CONSTRUCTION BY:
DATE: 2023-07-24	DATE:
CONSULTANT NO.:	Y0-C101



THE CITY OF WINNIPEG WATER AND WASTE DEPARTMENT			
NORTH END SEWAGE TREATMENT PLANT NEWPCC UV UPGRADES CIVIL SITE GRADING PLAN			
CITY DRAWING NUMBER	SHEET	REV.	SIZE
		00	A1



1. FENCING TO BE PROVIDED IN ACCORDANCE WITH CW 3550-R3.
2. THE 3000 mm HIGH FENCING TO BE PROVIDED WITH THE FOLLOWING SPECIFICATIONS:
 - 2.1. LINE POSTS, TERMINAL POSTS AND CORNER POSTS: SCHEDULE 40 HOT DIP GALVANIZED STEEL PIPE, SIZED PER DETAILS.
 - 2.2. TOP RAILS: SCHEDULE 40 HOT DIP GALVANIZED STEEL PIPE, IN 6.4m LENGTHS, NOT LESS THAN 43mm OUTSIDE DIAMETER.
 - 2.3. BOTTOM TENSION WIRE: NO. 6 GAUGE SINGLE STRAND GALVANIZED STEEL WIRE.
 - 2.4. FABRIC TO BE No. 9 GAUGE STEEL WIRE WOVEN INTO A UNIFORM 50mm DIAMOND PATTERN MESH AS SPECIFIED IN CITY OF WINNIPEG STANDARD CONSTRUCTION SPECIFICATIONS CW 3550-R3.
 - 2.5. FABRIC TO BE ZINC COATED BEFORE WEAVING BY THE HOT DIP PROCESS TO AN AVERAGE MASS PER UNIT AREA OF NOT LESS THAN 490g/m².
 - 2.6. FABRIC TO BE FREE OF EXCESSIVE ROUGHNESS, BLISTERS, SAL AMMONIAC SPOTS, BRUISES, OR FLAKING.
 - 2.7. TENSION BANDS AS SPECIFIED IN CW3550-R3 AND WITH A MAXIMUM SPACING OF 380mm ON TERMINAL POSTS.
3. PROVIDE TOP GUARD CONSISTING OF 600mm TALL OUTRIGGER BARBED WIRE AT 45 DEGREE ANGLE, FACING OUTWARD WITH 3 STRANDS OF 13.5 GAUGE BARBED WIRE TO THE TOP OF ALL 3000mm HIGH FENCING.
4. FENCING TO BE STEPPED AS NECESSARY TO ACCOMMODATE UNEVEN GROUND.
5. FENCING TO BE BRACED AT MID-HEIGHT WITH SCHEDULE 40 HOT DIP GALVANIZED STEEL PIPE NOT LESS THAN 43mm OUTSIDE DIAMETER FOR ONE FENCE SECTION FROM CORNER AND TERMINAL POSTS. 2 BRACES REQUIRED AT CORNER POSTS.
6. ALL POSTS EXCEPT FOR GATE POSTS TO BE DIRECT DRIVEN 3050mm ON CENTRE AND SPACING MAY BE ADJUSTED FOR UP TO 5 FENCE SECTIONS.
7. CAST-IN-PLACE CONCRETE PILE FOUNDATIONS TO BE MINIMUM DEPTH OF 3658mm BELOW FINISHED GRADE TO ACCOMMODATE GATE INSTALLATION. CONFIRM ANY REVISIONS TO STEEL PLACEMENT WITH CONTRACT ADMINISTRATOR.
8. ALL GATE FRAME MATERIALS INCLUDING BOTTOM TRACK TO BE SCHEDULE 40 HOT DIP GALVANIZED STEEL. FABRIC TO BE PER FENCING NOTE 2.4.
9. REFER TO ELECTRICAL DRAWINGS U0-E504 AND 66303D-CE.01 FOR BONDING AND GROUNDING DETAILS.
10. CONTRACTOR TO PROVIDE SHOP DRAWINGS FOR APPROVAL PRIOR TO MANUFACTURE OF GATES.
11. CONTRACTOR TO PROVIDE A WEATHER RESISTANT, HEAVY DUTY LOCK WITH 6 KEYS FOR THE MAN GATE ENTRANCE.



NORTH END SEWAGE TREATMENT PLANT
NEWPCC UV UPGRADES
CIVIL
FENCE DETAILS

CITY DRAWING NUMBER	SHEET	REV. 00	SIZE A1
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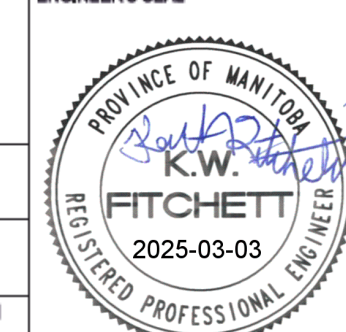
METRIC

WHOLE NUMBERS INDICATE MILLIMETRES
DECIMALIZED NUMBERS INDICATE METRES

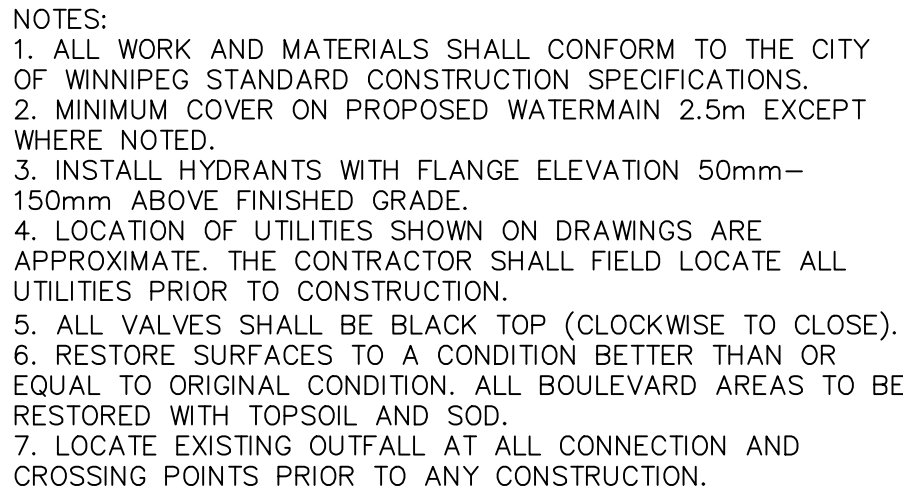
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NO.	REVISIONS	DATE	DESIGN		CHE

	
DESIGNED BY:	CHECKED BY:
KWF	PB
DRAWN BY:	APPROVED BY:
JP	NW
SCALE:	RELEASED FOR CONSTRUCTION
NTS	BY:
DATE:	DATE:
2023-07-24	
CONSULTANT NO.:	
Y0-C501	

ENGINEER'S SEAL



 THE CITY OF WINNIPEG WATER AND WASTE DEPARTMENT		TENDER NO. 30-2023	
NORTH END SEWAGE TREATMENT PLANT NEWPCC UV UPGRADES CIVIL FENCE DETAILS			
CITY DRAWING NUMBER	SHEET	REV.	SIZE
		00	A1



BUILDING LOCATION PLAN
SCALE 1:1000

	WATERMAIN			HYDRO		WATERMAIN		
	HYDRANT			M.T.S.		HYDRANT		
	VALVE			CONCRETE		VALVE		
	LAND DRAINAGE SEWER			ASPHALT		LAND DRAINAGE SEWER		
	WASTEWATER SEWER			PROPERTY LINE		WASTE WATER SEWER		
	MANHOLE			SURVEY BAR		ε PROFILE		
	CATCH BASIN		232.750	ELEVATION	(32.750)	LAMP STANDARD		
	CURB INLET			TREE				
	JUNCTIONS			SPRINKLER LINE				
	CULVERT			CONCRETE SIDEWALK				
	GAS			FENCE				
EXISTING	LEGEND - PLAN	PROPOSED	EXISTING	LEGEND - PLAN	PROPOSED	EXISTING	LEGEND - PROFILE	PROPOSED

**ENGINEERS
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13-027 W side Main St. on the grounds of the North End Treatment Plant, Tblt. on top of Conc. pit in front of main bldg., 22.3m E. of line of most Ely. wall & 32.8m S. of most Nly. wall of main bldg. (lies to tblt.) ELEVE= 231.95mm					
03	ISSUED FOR TENDER	2025-02-26	KWF	PB	
2	AS-COMPLETED DRAWING	07/03/14	GC		
1	ISSUED FOR CONSTRUCTION	05/06/08	LAE		
0	ISSUED FOR TENDER	05/02/18	JEH		
NO.	REVISIONS	DATE	DESIGN	CHECK	

AECOM

DESIGNED BY:	CHECKED BY:
KWF	PB
DRAWN BY:	APPROVED BY:
JP	NW
SCALE:	RELEASED FOR CONSTRUCTION
AS SHOWN	BY:
DATE:	DATE:
2023-07-24	
CONSULTANT NO.:	Y0-C010

MEER'S SEAL



 **THE CITY OF WINNIPEG**
WATER AND WASTE DEPARTMENT

NEWPCC - SECONDARY EFFLUENT
UV DISINFECTION FACILITY
SITE WORKS
SEWER AND WATER SERVICING,
PAVING AND GRADING

CITY DRAWING NUMBER	SHEET	REV.	SIZE
1-0101U-C0001-001-02D		03	A1