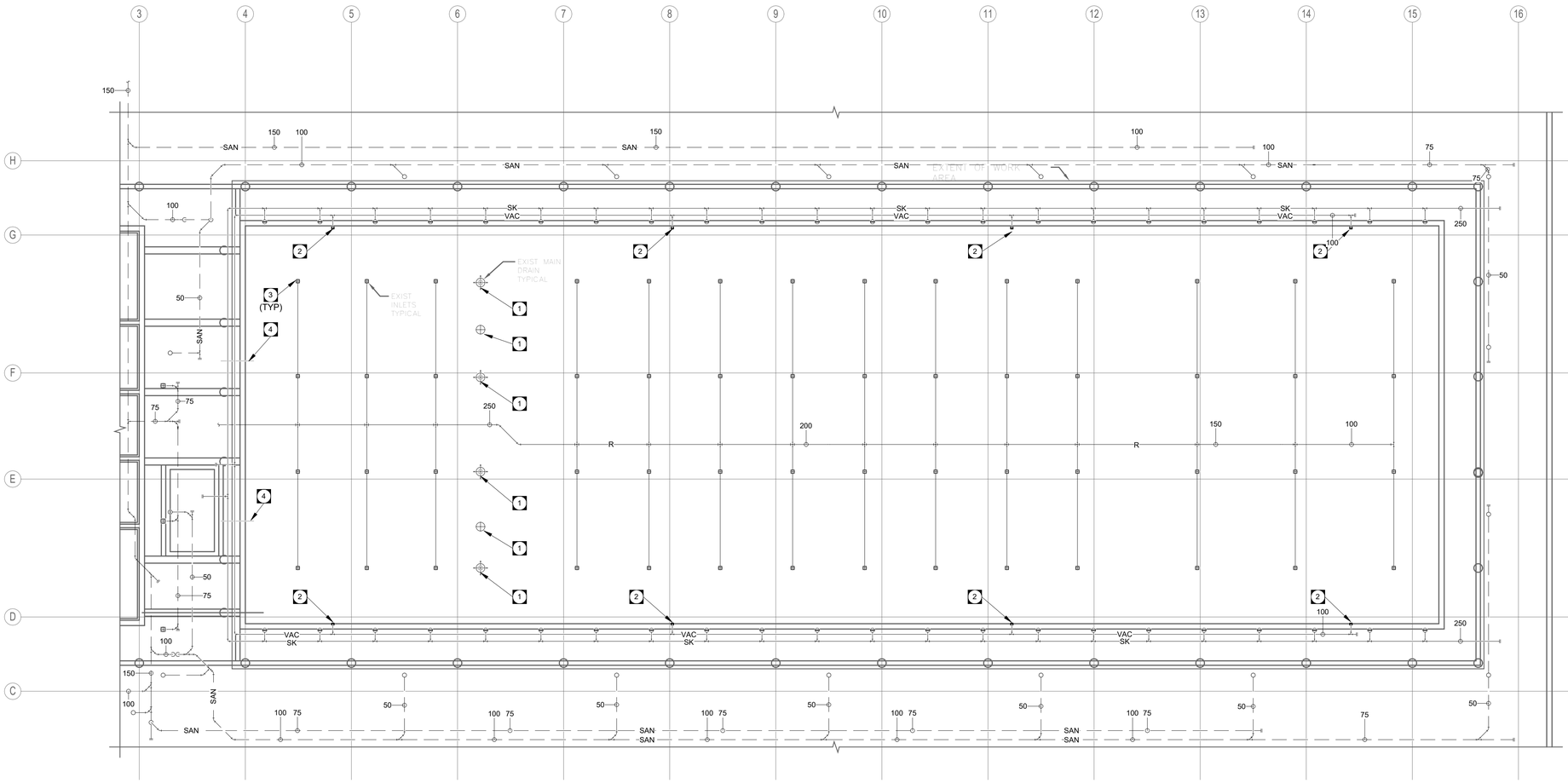

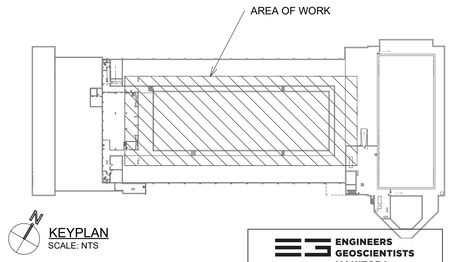

KEYPLAN
SCALE: NTS

PARTIAL BASEMENT PLAN - PLUMBING
SCALE: 1 : 150

KEY NOTES

1. PROVIDE NEW MAIN DRAINS AND COVERS AT EXISTING LOCATIONS. CONNECT TO EXISTING PIPING. MAIN DRAINS SHALL BE VGB COMPLIANT. COORDINATE INSTALLATION, MOUNTING HARDWARE AND CONCRETE WORK WITH STRUCTURAL.
2. PROVIDE NEW VACUUM PORT FITTING AT ALL EXISTING LOCATIONS. CONNECT TO EXISTING PIPING. COORDINATE INSTALLATION WITH STRUCTURAL. TYPICAL.
3. PROVIDE NEW POOL RETURN FITTINGS AT EXISTING LOCATIONS WITHIN POOL FLOOR. COORDINATE WITH STRUCTURAL. TYPICAL.
4. PROVIDE NEW COMPRESSED AIR FITTING CONNECTION WALL PLATE. 3/4" THREADED PIPE FITTING TO MATCH EXISTING AND TO ACCOMMODATE EXISTING SPARGER AIR SUPPLY HOSE FITTINGS. MOUNT IN EXISTING LOCATIONS. RECONNECT EXISTING SPARGER COMPRESSED AIR HOSES HARD PIPE FITTINGS..

VELOCITY CALCULATION

THE VELOCITY THROUGH ANY INLET ORIFICE SHALL BE IN THE RANGE OF 6-20 FEET PER SECOND. THE VELOCITY THROUGH ANY DRAIN SHALL NOT EXCEED 1.5 FEET PER SECOND.

TOTAL SYSTEM FLOW: 2897 gpm
TURNOVER TIME: 6 hours

MAIN DRAINS: 18X18 SWIMMING POOL MAIN DRAINS, VGB COMPLIANT
MAIN DRAINS: 174.96 SQ.IN. (1.21 SF)
MAIN DRAINS FLOW: 482.9 gpm (x6), 579.48 gpm (x5), Q = 1.29 FT3/S, A = 1.1 FT2, V = 1.06 FT/S.
QUANTITY: 6

SKIMMERS: FLOW (EA.): 65.85 GPM, FREE AREA: 21.2 SQ.IN. (0.147 SQ.FT.), VEL.: 1.00 FT/S
QUANTITY: 44

POOL FLOOR INLETS: 51.74 GPM PER INLET, 1.07 SQ.IN. (0.0074 FT2), 1-1/4 TURNS @ 1 PSI
FLOOR INLET VELOCITY (EA.): Q = 0.12 FT3/S, A = 1.07 SQ.IN. (0.0074) FT2, 15.52 FT/S
QUANTITY: 56

PLUMBING FIXTURE SCHEDULE

MARK		DCW		DHW		SANITARY		VENT	
		(in.)	(mm)	(in.)	(mm)	(in.)	(mm)	(in.)	(mm)
FD	1					2"	50 mm		
FD	3					2"	50 mm		

* FOLLOW PIPE SIZES GIVEN IN ABOVE CHART UNLESS DRAWING SHOWS DIFFERENTLY.

CrosierKilgour
Structural Engineering & Building Performance

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No.	REVISION/DESCRIPTION	BY	DATE
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PROVINCE OF MANITOBA
SCHELLENBERG
Member
31336
REGISTERED PROFESSIONAL ENGINEER
2026-08-06

26-08-06	JS	KL	JS	Approver
DATE	DESIGNED	DRAWN	CHECKED	APPROVED

THE CITY OF WINNIPEG
ASSETS & PROJECT MANAGEMENT DEPARTMENT
MUNICIPAL ACCOMMODATIONS DIVISION
3-65 GARRY STREET, R3C 4K4

PROJECT
PAN AM POOL MAIN TANK RENEWAL

25 POSEIDON BAY

SHEET TITLE
BASEMENT - PLUMBING PLAN

SCALE	PROJECT No:	SHEET No:
As indicated	24124	MP2.0

DRAWING SHEET SIZE: A1 (594x841) PLOT 1:1