



NOTE:  
FOR SCREW PILES LOCATED ADJACENT TO EXISTING UTILITIES, CONTRACTOR TO SOFT DIG BELOW UTILITY TO ALLOW FOR SCREW PILE INSTALLATION. CONTRACTOR TO CONFIRM UTILITY LOCATIONS RELATIVE TO PROPOSED FOUNDATIONS PRIOR TO CONSTRUCTION.

4-15M BENT DOWELS (MIN. 150 EMBED. INTO EXIST. GB) W/ HILTI HIT-HY 200 EPOXY, EXTEND 600 INTO NEW GB, TYP. EACH END

NOTE: DEMOLISH EXIST. CONC. STAIRS & HANDRAILS IN THIS AREA. REFER TO ORIGINAL CONSTRUCTION DRAWINGS FOR EXIST. DETAILS

NEW 200x950 GB-2 TIED INTO EXIST. GRADE BEAMS. CONFIRM FINAL ELV. W/ L.A.R.C.H. PRIOR TO CONSTRUCTION

GB-3A @ BENCH EXTENTS ONLY (TYP.)

SLOPE CONCRETE AS PER LARCH DRAWINGS. DROP TOP OF GRADE BEAM AND MAINTAIN SLAB THICKNESS OF 200 W/ SLOPED REINF.

MECHANICAL PIT (SEE DET. A/S2.1)

EXIST. ART FOUNDATION (TO REMAIN)

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WATER STORAGE TANK LOCATION (SEE ARCH.)

SILVA CELL (TYP.) (REFER TO L. ARCH.)

GRATING (TYP.) (REFER TO L. ARCH.)

+2-20M BARS TYP. EACH SIDE OF OPENING. EXTEND MIN. 1200 PAST OPENING TYP.

(E) 600x600x150 DP. DROP PANEL (TYP.)

+10M 1200 LG @ 300 O/C TOP CTR ON GB, EQ. SP. W/ TOP MAT. FULL LENGTH OF GB-4

1500 MAX. TYP. REFER TO L.A.R.C.H.

5500 MAX. TYP. REFER TO L.A.R.C.H.

sheet name: Super A1 24' x 36'

CAD File Name: 23-0109-004\_S1.0.dwg



**EXISTING PILE SCHEDULE:**

(E) P-1: NOT USED
(E) P-2: EXISTING 400 Ø X 7600 LG CONC. PILE
(E) P-3: EXISTING 400 Ø X 9500 LG CONC. PILE
(E) P-4: 3 X EXISTING 400 Ø X 6000 LG CONC. PILE W/ 1500 Ø X 1750 DEEP TRIPLE PILE CAP R/W 10M VERT. @ 250 O/C ALL AROUND, 6-10M RINGS @ 300 O/C, 10M @ 300 O/C E.W. TOP.
(E) P-5: 2 X EXISTING 400 Ø X 1200 LG CONC. PILE
(E) P-6: EXISTING 400 Ø X 8200 LG CONC. PILE
(E) P-7: EXISTING 400 Ø X 8500 LG CONC. PILE

**PILE CAP SCHEDULE**

PC-1: 1625 DIA. X 600 HIGH (COORDINATE PROJECTION ABOVE GRADE W/ ARTIST/L ARCH.), MIN 300 EMBED BELOW GRADE. R/W 12-15M VERT. + 10M STIRR @ 200 O/C (TOP 3 STIRR @ 100 O/C).
PC-2: 610 DIA. X 600 HIGH (COORDINATE PROJECTION ABOVE GRADE W/ ARTIST/L ARCH.), MIN 300 EMBED BELOW GRADE. R/W 6-15M VERT. + 10M STIRR @ 200 O/C (TOP 3 STIRR @ 100 O/C).

**NOTE:** ANCHOR ART TO PILE CAPS W/ GALVANIZED POST INSTALLED THREADED ROD (SIZED TO SUIT EXISTING HOLES IN ART BASEPLATES), MIN 200 EMBED W/ HILTI HIT-HY 200 EPOXY OR APPROVED ALTERNATIVE.

**STRUCTURAL SITE PLAN**  
SCALE: 1:100

**NOTE:**

- REFER TO ORIGINAL CONSTRUCTION DRAWINGS PREPARED BY LOMBARD NORTH GROUP DATED JULY 1984 FOR EXISTING STRUCTURE INFORMATION

**DESIGN LOADS:**

DEAD:	MATERIAL SELF WEIGHTS
LIVE:	4.8 kPa STAGE AND TIERED SEATING
SNOW:	1.72 kPa STAGE AND TIERED SEATING
WIND:	1.5 kPa ON FENCE, LIGHTS, ART



**FOR TENDER ONLY**  
NOT TO BE USED FOR CONSTRUCTION

BID OPPORTUNITY No. 78-2024

**NOTES:**

**PILE SCHEDULE:**

P-1: 89 Ø (MIN.) GALVANIZED HELICAL PILE (MIN. 4267 LENGTH); W/ 200x200x16 THK STEEL CAP PLATE (GALV.) C/W 4-150 LG. N. STUDS

PILE DESIGN LOADS:  
AXIAL: 200 kN (DOWN FACT.), 145 kN (DOWN UNFACT.)  
100 kN (UPLIFT, SEE NOTE)  
LATERAL: 3 kN (FACT.), 2 kN (UNFACT.)

P-2: 168 Ø (MIN.) GALVANIZED HELICAL PILE (MIN. 4267 LENGTH); W/ 300x300x16 THK STEEL CAP PLATE (GALV.) C/W (4) 19 Ø A325 BOLTS (GALV.) AT LIGHT POLE BASES CAP PLATE TO BE 450x450x16 C/W (4) 32Ø GALV. BOLTS (COORD. W/ ELECT. POLE DRAWINGS)

PILE DESIGN LOADS:  
AXIAL: 20 kN (DOWN FACT.), 15 kN (DOWN UNFACT.)  
185 kN (UPLIFT, SEE NOTE)  
LATERAL: 11 kN (FACT.), 3 kN (UNFACT.)  
MOMENT: 40 kN-m (FACT.)

P-3: CONCRETE PILE (REFER TO DETAIL)

P-4: 89 Ø (MIN.) GALVANIZED HELICAL PILE (MIN. 4267 LENGTH); W/ 200x200x16 THK STEEL CAP PLATE (GALV.) C/W 4-150 LG. N. STUDS

PILE DESIGN LOADS:  
AXIAL: 75 kN (DOWN FACT.), 50 kN (DOWN UNFACT.)  
100 kN (UPLIFT, SEE NOTE)  
LATERAL: 3 kN (FACT.), 2 kN (UNFACT.)

**NOTE:** SLEEVE TOP 2440 OF PILE OR PROVIDE MEANS TO ELIMINATE FROST ADHESION FORCES. IF THIS IS DONE REDUCE UPLIFT TO 4 kN (FACT.) TYP.

**GRADE BEAM SCHEDULE:**

GB-1: 200x500 R/W 2-20M TOP + BOTT. & 2-10M MIDHEIGHT; 10M STIRR @ 300 O/C

GB-2: 200x950 R/W 2-20M TOP + BOTT. & 2-10M MIDHEIGHT; 10M STIRR @ 300 O/C

GB-2A: 400x822 R/W 2-20M TOP + BOTT. & 2X2-10M EQUALLY SPACED + 10M STIRR @ 300 O/C, EXTEND SKIN REINF. + TOP BARS 600 INTO GB-2 TYP.

GB-3: 400x950 R/W 2-20M TOP + BOTT. & 2X2-10M EQUALLY SPACED + 10M STIRR @ 300 O/C

GB-3A: 400x822 R/W 2-20M TOP + BOTT. & 2X2-10M EQUALLY SPACED + 10M STIRR @ 300 O/C + 100x128 CURB R/W 10M VERT + 15M CONT. HORIZ. EXTEND SKIN REINF. + TOP BARS 600 INTO GB-3 TYP.

GB-4: 200x1000 R/W 2-20M TOP + BOTT. & 2X2-10M HORIZ. EQUALLY SPACED SKIN REINF.; 10M STIRR @ 300 O/C

GB-5: 200x400 R/W 2-20M TOP + BOTT. & 10M STIRR @ 300 O/C. HOOK BARS INTO PERP. GRADE BEAMS

GB-6: L SHAPED GRADE BEAM, REFER TO SECTION FOR REINFORCING

GB-7: 200x400 R/W 2-20M TOP + BOTT. & 10M STIRR @ 300 O/C

**NOTE:** ALL GRADE BEAMS EXCEPT GB-6 AND GB-7 ARE ON 150 VOID FORM TYP.

**SLAB SCHEDULE:**

SL-1: 100 THK R/W 10M @ 300 O/C E/W CENTERED C/W 150 VOID FORM

SL-2: 200 THK R/W 15M @ 300 O/C BOTT. E/W & 10M @ 300 O/C TOP E/W C/W 150 VOID FORM

REV	YY / MM / DD	DESCRIPTION	BY
0	24 / 02 / 09	ISSUED FOR TENDER	

REVISIONS

REVISION NUMBER: \_\_\_\_\_  
REVISION DESCRIPTION: \_\_\_\_\_  
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**SCATLIFF + MILLER + MURRAY**  
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CONSULTANT FILE NAME: AIR CANADA PARK REDEVELOPMENT

CLIENT: CITY OF WINNIPEG  
PLANNING, PROPERTY & DEVELOPMENT

AIR CANADA WINDOW PARK REDEVELOPMENT

CITY DRAWING NUMBER	SHEET	OF
	1	1

DESIGN	DRAWN	DATE - Y / M / D	SCALE
MEL	MRB	23/08/31	1:100
CHECKED	APPROVED	PROJECT No.	DRAWING No.
		23-0109-004	S1.0