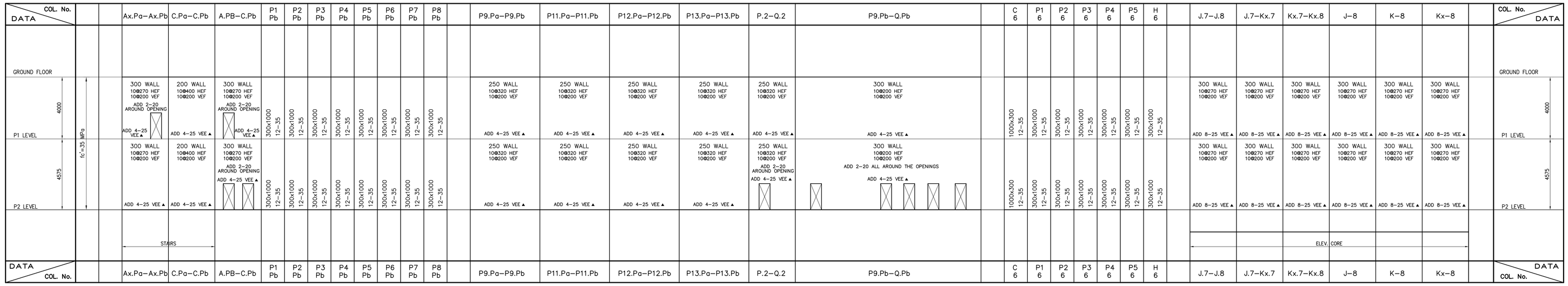
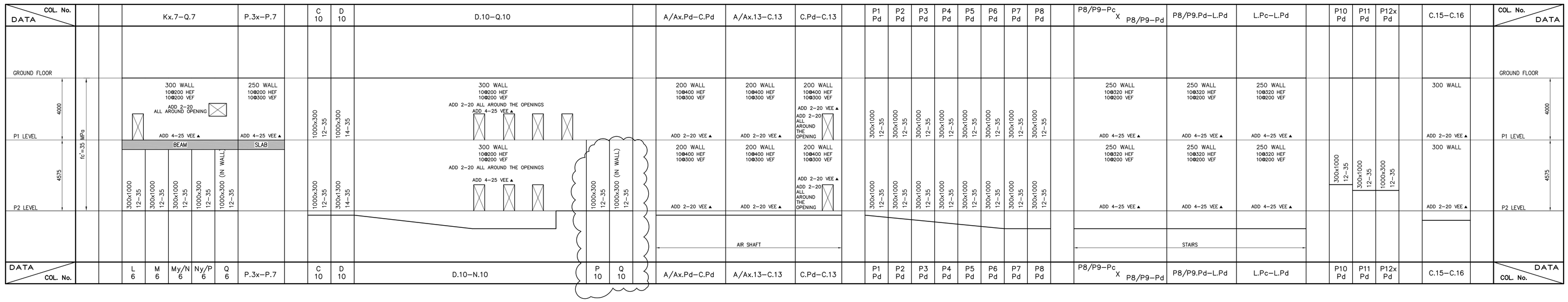
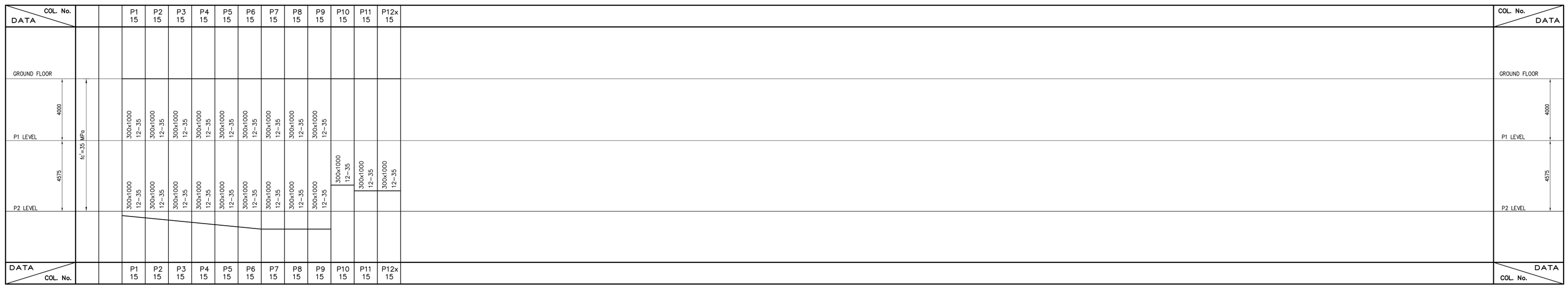
COLUMN & WALL SCHEDULE (BELOW GROUND FLOOR)







COLUMN AND WALL SCHEDULE NOTES :

1. COLUMN SIZE GIVEN FIRST IN THE SCHEDULE IS IN THE NORTH–SOUTH DIRECTION.
2. COLUMN LOADS ARE GIVEN IN SPECIFIED KILONEWTONS.
3. CONCRETE STRENGTH AT 28 DAYS SHALL BE AS SPECIFIED IN SCHEDULE.
4. MINIMUM YIELD STRESS FOR REINFORCING STEEL SHALL BE 400 MPa.
5. PROVIDE TENSION LAP SPLICE (CLASS 'B') FOR ALL VERTICAL BARS MARKED THUS "▲" IN SCHEDULE.
6. PROVIDE COLUMN TIES IN WALLS THAT HAVE VERTICAL REINFORCING STEEL OF SIZE 20 OR GREATER. FOR ALL THE COLUMNS LOCATED AT THE GROUND FLOOR AND BELOW, PROVIDE 15@200 TIES.
7. FOR ALL WALLS GREATER THAN 2000MM IN LENGTH PROVIDE SHEAR WALL REINFORCING AS PER TABLE 2, FOR ALL OTHER WALLS PROVIDE TEMPERATURE REINFORCING AS PER TABLE 1
8. H.E.F. – DENOTES HORIZONTAL EACH FACE
   H.T.B.E.F. – DENOTES HORIZONTAL TOP&BOTTOM EACH FACE
   H.T.E.F. – DENOTES HORIZONTAL TOP EACH FACE
   V.EAST E. – DENOTES VERTICAL EAST END
   V.E.F. – DENOTES VERTICAL EACH FACE
   V.E.E. – DENOTES VERTICAL EACH END
   V.N.E. – DENOTES VERTICAL NORTH END
   V.S.E. – DENOTES VERTICAL SOUTH END
   V.W.E. – DENOTES VERTICAL WEST END
9. REFER TO MECHANICAL DWGS. FOR MECHANICAL WALL OPENINGS.
10. REFER TO ARCHITECTURAL DRAWINGS FOR WALL LENGTHS.
11. REFER TO TYPICAL DETAILS ON DRAWINGS S–001 TO S–004.
12. REFER TO GENERAL NOTES ON DRAWING S–001.
13. UNLESS NOTED OTHERWISE, PROVIDE COLUMN OR WALL DOWELS TO MATCH VERTICAL REINFORCING GIVEN IN SCHEDULE.
14. CONCRETE EXPOSED TO VEHICULAR TRAFFIC SHALL HAVE 6% TO 8% ENTRAINED AIR AND SHALL BE PROPORTIONED FOR C–1 EXPOSURE CONDITIONS.

COLUMN, WALL & FOOTING DOWEL SCHEDULE

LAP SPLICE IN WALL OR COLUMN AND DEVELOPMENT LENGTH IN CAP OR FOOTING

DATA / BAR SIZE			10	15	20	25	30	35
Fy = 400 < Fc ≤ 25	TENSION	LAP SPLICE	490	740	980	1530	1830	2130
		DEVELOPMENT LENGTH	380	570	750	1170	1410	1640
	COMPRESSION	LAP SPLICE	300	440	590	730	880	1030
		DEVELOPMENT LENGTH	220	310	370	480	570	690
Fy = 400 < Fc ≤ 30	TENSION	LAP SPLICE	450	670	890	1390	1670	1950
		DEVELOPMENT LENGTH	350	520	690	1070	1290	1500
	COMPRESSION	LAP SPLICE	300	440	590	730	880	1030
		DEVELOPMENT LENGTH	200	280	340	440	530	630
Fy = 400 < Fc ≤ 35	TENSION	LAP SPLICE	420	620	830	1290	1550	1800
		DEVELOPMENT LENGTH	320	480	640	990	1190	1390
	COMPRESSION	LAP SPLICE	300	440	590	730	880	1030
		DEVELOPMENT LENGTH	200	280	340	440	530	630
Fy = 400 < Fc ≤ 40	TENSION	LAP SPLICE	390	580	770	1210	1450	1690
		DEVELOPMENT LENGTH	300	450	600	930	1110	1300
	COMPRESSION	LAP SPLICE	300	440	590	730	880	1030
		DEVELOPMENT LENGTH	200	280	340	440	530	630

TABLE 1 — TEMPERATURE WALL REINFORCING

WALL THICKNES	DIRECTION	WALL EXPOSED OR ENCLOSED BOTH SIDES	WALL EXPOSED ONE SIDE	
			EXPOSED SIDE	ENCLOSED SIDE
150mm	HORIZ.	10 @ 330 (1 LAYER)	10 @ 330 (1 LAYER)	
	VERT.	10 @ 450 (1 LAYER)	10 @ 450 (1 LAYER)	
200mm	HORIZ.	10 @ 450 EA. FACE	10 @ 420	10 @ 450
	VERT.	10 @ 450 EA. FACE	10 @ 450	10 @ 450
250mm	HORIZ.	10 @ 400 EA. FACE	10 @ 330	10 @ 450
	VERT.	10 @ 450 EA. FACE	10 @ 450	10 @ 450
300mm	HORIZ.	10 @ 330 EA. FACE	10 @ 250	10 @ 450
	VERT.	10 @ 440 EA. FACE	10 @ 400	10 @ 450
350mm	HORIZ.	10 @ 280 EA. FACE	10 @ 210	10 @ 430
	VERT.	10 @ 380 EA. FACE	10 @ 300	10 @ 450
400mm	HORIZ.	10 @ 250 EA. FACE	15 @ 380	10 @ 370
	VERT.	10 @ 330 EA. FACE	15 @ 250	10 @ 450

NOTE: SIZE AND SPACING OF DOWELS TO BE SAME AS VERTICAL REINF. IN WALL

TABLE 2 — SHEAR WALL REINFORCING

WALL THICKNES	DIRECTION	WALL EXPOSED OR ENCLOSED BOTH SIDES	WALL EXPOSED ONE SIDE	
			EXPOSED SIDE	ENCLOSED SIDE
150mm	HORIZ.	10 @ 270 (1 LAYER)	10 @ 270 (1 LAYER)	
	VERT.	10 @ 270 (1 LAYER)	10 @ 270 (1 LAYER)	
200mm	HORIZ.	10 @ 400 EA. FACE	10 @ 300	10 @ 450
	VERT.	10 @ 400 EA. FACE	10 @ 300	10 @ 450
250mm	HORIZ.	10 @ 320 EA. FACE	10 @ 240	10 @ 450
	VERT.	10 @ 320 EA. FACE	10 @ 240	10 @ 450
300mm	HORIZ.	10 @ 270 EA. FACE	10 @ 200	10 @ 400
	VERT.	10 @ 270 EA. FACE	10 @ 200	10 @ 400
350mm	HORIZ.	15 @ 450 EA. FACE	15 @ 340	15 @ 450
	VERT.	15 @ 450 EA. FACE	15 @ 340	15 @ 450
400mm	HORIZ.	15 @ 400 EA. FACE	15 @ 300	15 @ 450
	VERT.	15 @ 400 EA. FACE	15 @ 300	15 @ 450
450mm	HORIZ.	15 @ 350 EA. FACE	15 @ 260	15 @ 450
	VERT.	15 @ 350 EA. FACE	15 @ 260	15 @ 450

NOTE: SIZE AND SPACING OF DOWELS TO BE SAME AS VERTICAL REINF. IN WALL

Jablonsky, Ast and Partners
CONSULTING ENGINEERS
1129 LESLIE STREET
DON MILLS, ON., M3C 3K5
TEL. 416-447 7405
FAX 416-447 2771
E-mail jap@astint.on.ca

P.F. AST 13015 PROVINCE OF ONTARIO

FIRST FLOOR ELEV. 93.60m

No.	Issued / revised	date:
1	ISSUED FOR PERMIT	2014-05-30
2	RE ISSUED FOR PERMIT	2014-07-10
3	ISSUED FOR FORMING TENDER	2014-09-27
4	CONSTRUCTION REVIEW	2014-12-15
5	RE ISSUED FOR PERMIT	2015-01-27

ALEXANDRA PARK - BLOCK 11
TORONTO, ONTARIO

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reviewed by: HOUMAN
date started: MARCH 2014

COLUMN AND WALL SCHEDULE (BELOW GRD. FLOOR)

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