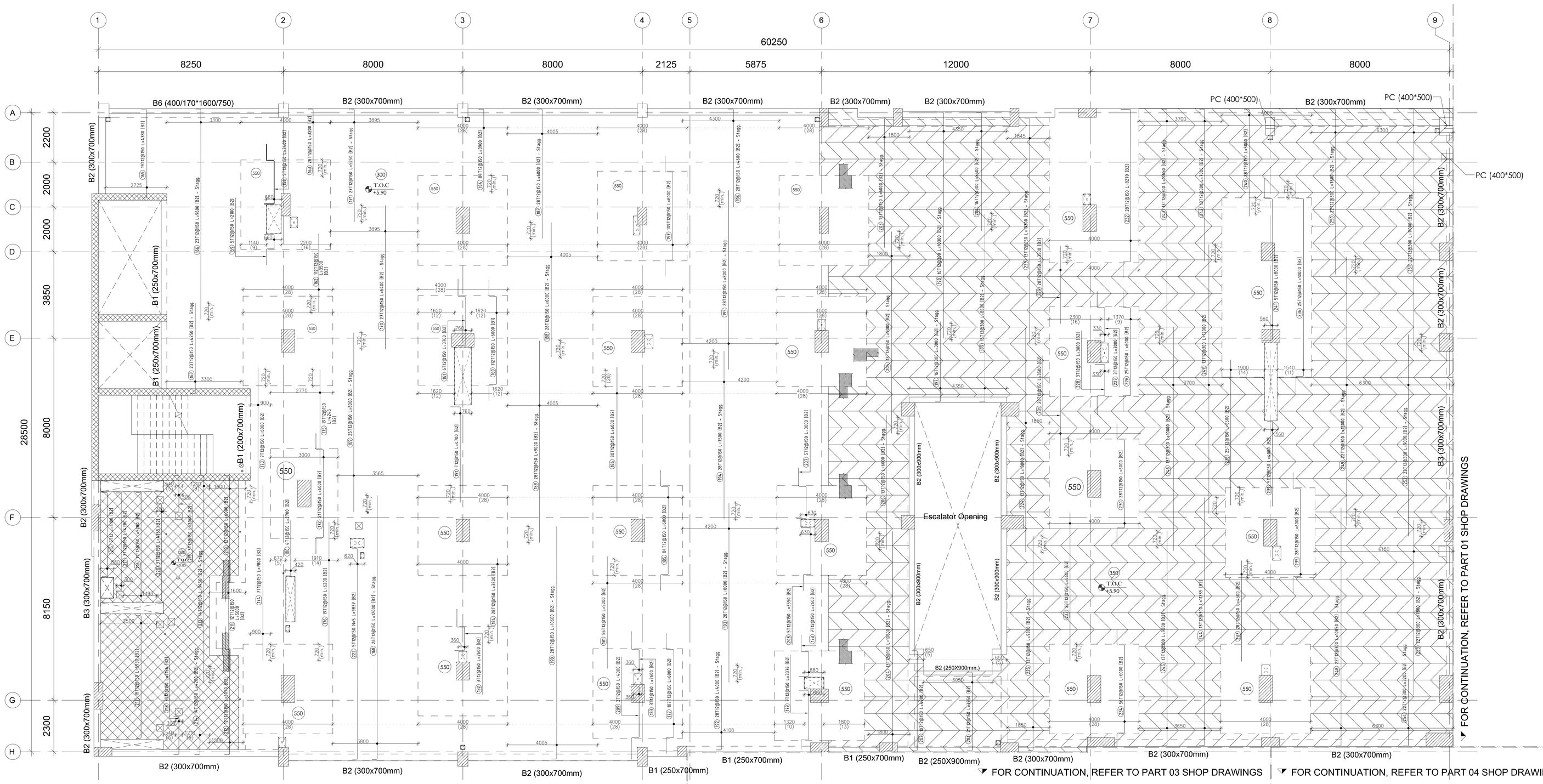

1ST SLAB - BOTTOM (B2) : Y-DIRECTION

Mark	Dia [mm]	Bending shape [mm]	Cutting length [mm]	Mass of each bar [kg]	Total number	Total length [mm]	Total mass [kg]	%	Note
157	12	730 / 90 / 90 / 730 / 3940	6000	5.33	109	654054	580.68	4.6%	[B2]
158	12	450 / 735 / 360 / 1940	3400	3.02	5	17002	15.09	0.1%	[B2]
159	12	650 / 450 / 365 / 725	2100	1.86	5	10502	9.32	0.1%	[B2]
160	12	730 / 90 / 90 / 730 / 3940	6000	5.33	112	672056	596.66	4.8%	[B1]
161	12	450 / 738 / 360 / 2197	3700	3.29	6	22202	19.71	0.2%	[B2]
162	12	3500	3500	3.11	112	392000	348.02	2.8%	[B2]
163	12	250 / 2985	3200	2.84	28	89603	79.55	0.6%	[B2]
164	12	250 / 3685	3900	3.46	84	327610	290.86	2.3%	[B2]
165	12	250 / 3950 / 250	4380	3.89	19	83222	73.89	0.6%	[B2]
166	12	250 / 9385	9600	8.52	23	220803	196.03	1.6%	[B2] - Stagg.
167	12	4029 / 250	4250	3.77	23	97761	86.79	0.7%	[B2] - Stagg.
168	12	11985 / 250	12000	10.65	26	312003	277	2.2%	[B2] - Stagg.
169	12	8000	8000	7.1	25	200012	177.57	1.4%	[B2] - Stagg.
170	12	6400	6400	5.68	27	172800	153.41	1.2%	[B2] - Stagg.
171	12	250 / 5035	5250	4.66	27	141753	125.85	1%	[B2] - Stagg.
172	12	730 / 90 / 90 / 730 / 3940	6000	5.33	21	126010	111.87	0.9%	[B2]
173	12	6000	6000	5.33	7	42000	37.29	0.3%	[B2]
174	12	7800	7800	6.92	7	54600	48.47	0.4%	[B2]
175	12	4245	4245	3.77	19	80655	71.61	0.6%	[B2]
176	12	6200	6200	5.5	19	117800	104.58	0.8%	[B2]
177	12	730 / 90 / 90 / 730 / 3940	6000	5.33	107	642053	570.02	4.5%	[B2]
178	12	450 / 765 / 90 / 1110	2600	2.31	7	18201	16.16	0.1%	[B2]
179	12	2200 / 450 / 365 / 450	3376	3	7	23631	20.98	0.2%	[B2]
180	12	2495 / 250	2700	2.4	4	10799	9.59	0.1%	[B2]
181	12	5000	5000	4.44	56	280000	248.59	2%	[B2]
182	12	895 / 450 / 90 / 1060	2600	2.31	3	7801	6.93	0.1%	[B2]
183	12	895 / 450 / 90 / 1060	2600	2.31	3	7801	6.93	0.1%	[B2]
184	12	3800	3800	3.37	28	106400	94.46	0.8%	[B2]
185	12	730 / 90 / 90 / 730 / 3940	6000	5.33	84	504042	447.5	3.6%	[B2]
186	12	6000	6000	5.33	80	480000	426.15	3.4%	[B2]
187	12	250 / 5385	6000	5.33	28	168003	149.16	1.2%	[B2] - Stagg.
188	12	6000	6000	5.33	28	168000	149.15	1.2%	[B2] - Stagg.
189	12	9000	9000	7.99	28	252000	223.73	1.8%	[B2] - Stagg.
190	12	10379 / 250	10600	9.41	28	296790	263.49	2.1%	[B2] - Stagg.
191	12	450 / 4275	4700	4.17	1	4700	4.17	0%	[B2]
192	12	3385 / 250	4000	3.55	28	112013	99.45	0.8%	[B2] - Stagg.
193	12	8000	8000	7.1	28	224000	198.87	1.6%	[B2] - Stagg.
194	12	7500	7500	6.66	28	210000	186.44	1.5%	[B2] - Stagg.
195	12	8000	8000	7.1	28	224000	198.87	1.6%	[B2] - Stagg.
196	12	250 / 4385	4600	4.08	28	128803	114.35	0.9%	[B2] - Stagg.
197	12	250 / 3584	3800	3.37	16	60793	53.97	0.4%	[B2] - Stagg.
198	12	10085 / 250	10300	9.14	16	164796	146.31	1.2%	[B2] - Stagg.
199	12	8385 / 250	8600	7.64	16	137603	122.17	1%	[B2] - Stagg.
200	12	250 / 5285	5500	4.88	16	88002	78.13	0.6%	[B2] - Stagg.
201	12	250 / 3520 / 250	3950	3.51	21	82950	73.64	0.6%	[B2]
202	12	250 / 4470 / 250	4900	4.35	10	49000	43.5	0.3%	[B2]
203	12	5785 / 250	6000	5.33	13	78002	69.25	0.6%	[B2] - Stagg.
204	12	9779 / 250	10000	8.88	13	129995	115.41	0.9%	[B2] - Stagg.
205	12	9000	9000	7.99	13	117000	103.87	0.8%	[B2] - Stagg.
206	12	6000	6000	5.33	13	78000	69.25	0.6%	[B2] - Stagg.
207	12	450 / 835 / 90 / 1440	3000	2.66	5	15000	13.32	0.1%	[B2]
208	12	735 / 360 / 575 / 2090	3550	3.15	5	17748	15.76	0.1%	[B2]
209	12	2300 / 450 / 360 / 975	4000	3.55	3	12001	10.65	0.1%	[B2]
210	12	895 / 250 / 4750 / 250	5968	5.3	12	71611	63.58	0.5%	[B2]
211	12	5000	5000	4.44	12	60000	53.27	0.4%	[B2]
212	12	250 / 4700 / 1025 / 250	6090	5.41	12	73084	64.89	0.5%	[B2]
213	12	9235 / 250	9450	8.39	14	132302	117.46	0.9%	[B2] - Stagg.
214	12	3985 / 250	4200	3.73	14	58802	52.21	0.4%	[B2] - Stagg.
215	12	250 / 3950 / 250	4180	3.71	5	20901	18.56	0.1%	[B2]
216	12	250 / 4850 / 250	5280	4.69	11	58083	51.57	0.4%	[B2]
217	12	250 / 5500 / 250	5930	5.26	18	106744	94.77	0.8%	[B2]
218	12	250 / 1725 / 250	2156	1.91	3	6467	5.74	0%	[B2]
219	12	250 / 1630 / 250	2060	1.83	3	6180	5.49	0%	[B2]
220	12	250 / 4335 / 250	4765	4.23	3	14296	12.69	0.1%	[B2]
221	12	250 / 4350 / 250	4780	4.24	3	14340	12.73	0.1%	[B2]
222	12	250 / 9400 / 250	9837	8.73	5	49184	43.67	0.3%	[B2]
223	12	10085 / 250	10300	9.14	13	133896	118.88	0.9%	[B2] - Stagg.
224	12	10000	10000	8.88	13	130000	115.42	0.9%	[B2] - Stagg.
225	12	9579 / 250	9800	8.7	13	127395	113.1	0.9%	[B2] - Stagg.
226	12	730 / 90 / 90 / 730 / 3940	6000	5.33	25	150012	133.18	1.1%	[B2]
227	12	450 / 725 / 90 / 1550	3000	2.66	3	9000	7.99	0.1%	[B2]
228	12	450 / 1400 / 360 / 875	3000	2.66	3	9000	7.99	0.1%	[B2]
229	12	3500	3500	3.11	28	98000	87.01	0.7%	[B2]
229	12	3500	3500	3.11	28	98000	87.01	0.7%	[B2]
230	12	730 / 90 / 90 / 730 / 3940	6000	5.33	28	168014	149.17	1.2%	[B2]
231	12	3500	3500	3.11	28	98000	87.01	0.7%	[B2]
232	12	450 / 6800 / 90 / 344	8270	7.34	28	231557	205.58	1.6%	[B2]
233	12	6600	6600	5.86	28	184800	164.07	1.3%	[B2]
234	12	730 / 90 / 90 / 730 / 3940	6000	5.33	56	336028	298.33	2.4%	[B2]
235	12	730 / 90 / 90 / 730 / 3940	6000	5.33	28	168014	149.17	1.2%	[B2]
236	12	3940 / 529 / 90 / 90 / 730	10000	8.88	25	250000	221.95	1.8%	[B2]
237	12	4500	4500	4	28	126000	111.86	0.9%	[B2]
238	12	6500	6500	5.77	25	162500	144.27	1.2%	[B2]
239	12	250 / 3785	4000	3.55	5	20001	17.76	0.1%	[B2]
240	12	4785 / 250	5000	4.44	28	140011	124.3	1%	[B2]
241	12	6360 / 575 / 90 / 90 / 575	8000	7.1	5	40001	35.51	0.3%	[B2]
242	12	250 / 6785 / 250	7000	6.21	13	91002	80.79	0.6%	[B2] - Stagg.
243	12	10435 / 250	10650	9.46	13	138452	122.92	1%	[B2] - Stagg.
244	12	11084 / 250	11285	10.02	13	146707	130.25	1%	[B2]
245	12	9585 / 250	9800	8.7	13	127395	113.1	0.9%	[B2] - Stagg.
246	12	10000	10000	8.88	13	130000	115.42	0.9%	[B2] - Stagg.
247	12	12000	12000	10.65	13	156000	138.5	1.1%	[B2]
248	12	10635 / 250	10850	9.63	22	238693	211.91	1.7%	[B2] - Stagg.
249	12	12000	12000	10.65	22	264000	234.38	1.9%	[B2] - Stagg.
250	12	250 / 7385	7600	6.75	22	167207	148.45	1.2%	[B2] - Stagg.
251	12	250 / 10785	11000	9.77	22	242003	214.85	1.7%	[B2] - Stagg.
252	12	9000	9000	7.99	22	198000	175.79	1.4%	[B2] - Stagg.
253	12	7800	7800	6.92	22	171600	152.35	1.2%	[B2] - Stagg.
254	12	250 / 2985	3200	2.84	22	70403	62.5	0.5%	[B2] - Stagg.
Total mass = 12545 kg									

OWNER

TMG

TALAAT MOUSTAFA GROUP (TMG)
Madinaty Club - Gate 1 - Clubhouse,

DESIGNER

PERKINS EASTMAN

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F. +971 4 343 3604

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E-mail: info@shakeregypt.com

ARCHITECTURE CONSULTANT

ARCHIMID

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SUPERVISION CONSULTANT

rmc
raafat miller consulting

MAIN CONTRACTOR

ATRIUM - QUALITY CONTRACTORS

36 Mosaddak Str., Dokki, Giza, Egypt 12311 Web Site: www.atriumeg.com
Tel: (202) 33355732 Fax: (202) 33355724 Email: info@atriumeg.com

ATRIUM Quality Contractors

General Notes

1. ALL DIMENSIONS AND REINFORCEMENT SIZES ARE IN mm.
2. CHARACTERISTIC STRENGTH FOR FOUNDATION CONCRETE AT 28 DAYS IS 350 KG/CM^2.
3. CONCRETE COVER TO REINFORCEMENTS FOR RC FOOTINGS, COLUMNS & WALLS IS 70 mm, 40 mm & 25 mm RESPECTIVELY.
4. ALL REINFORCEMENTS ARE HIGH TENSILE STEEL BARS OF GRADE B500DWR EXCEPT FOR STIRRUPS ARE MILD STEEL BARS OF GRADE B2400-P.
5. ALL ISOLATED FOOTINGS ARE CONCENTRIC WITH THEIR COLUMNS.

CONSULTANT COMMENTS

ATRIUM COORDINATION

CHECKED		NAME	SIGNATURE	DATE
ARCHITECTURAL	A			
STRUCTURAL	S			
MECHANICAL	M			
ELECTRICAL	E			
DRAWING QUALITY CONTROL CHECK	✓			

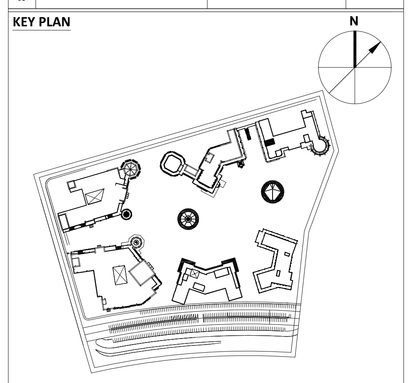
DESIGN DRAWING REFERENCES

NO.	DWG. No.	DRAWING TITLE	REV.	DATE
01				
02				
03				
04				
05				
06				
07				

RFI'S REFERENCES

NO.	DOC. No.	DOCUMENT DESCRIPTION	DATE
01			
02			
03			
04			
05			

KEY PLAN



REV	DATE	ISSUED FOR	DRW	CHK	PM
00	10.09.02025	ISSUED FOR APPROVAL	D.E.	S.S.	S.S.

PROJECT NAME:

WATER PARK-BUILDING M

DISCIPLINE

STRUCTURE

SHEET TYPE

SLAB REINFORCEMENT DETAILS

SHEET TITLE

BUILDING M - PART 02
FIRST FLOOR SLAB REINFORCEMENT DETAILS
BOTTOM (B2) : Y-DIRECTION

SCALE	PROJECT CODE	PROJECT NAME	ORIGINATOR	DISCIPLINE	BUILDING NO.	SERIES	REV.
	P0186	ATR	WSD	BLM	SRS	01-PT2	00

SHEET SIZE - ISO A0 (841* 1189 MM)
SCANNING SCALE