ONTARIO 2012 BUILDING CODE
DATA MATRIX - PART 3 or PART 9

ITEM			O.B.C. REFERENCE	
			References are to Division B unless noted: [A] for Division A or [C] for Division C.	
1.	PROJECT DESCRIPTION: CLEARWATER STRUCTURES INC. 505 LAKE ROAD BOWMANVILLE, ON. ☐ CHANGE OF USE	☒ NEW ☐ ADDITION ☐ ALTERATION	☐ PART 11 11.1 to 11.4	☒ PART 3 1.1.2 [A] / ☐ PART 9 1.1.2 [A] & 9.10.1.3
2.	MAJOR OCCUPANCY(S) D/F2			3.1.2.1.(1) / 9.10.2
3.	BUILDING AREA (m²)	EXISTING — NEW 3026 TOTAL 3026		1.4.1.2 [A] / 1.4.1.2 [A]
4.	GROSS AREA (m²)	EXISTING — NEW 3559 TOTAL 3559		1.4.1.2 [A] / 1.4.1.2 [A]
5.	NUMBER OF STOREYS	ABOVE GRADE 2 BELOW GRADE 0		1.4.1.2 [A] & 3.2.1.1 / 1.4.1.2 [A] & 9.10.4
6.	NUMBER OF STREETS / FIRE FIGHTER ACCESS 3			3.2.2.10 & 3.2.5 / 9.10.20
7.	BUILDING CLASSIFICATION 3.2.2.70.B. – F2			3.2.2.20.-83 / 9.10.2
8.	SPRINKLER SYSTEM PROPOSED	☒ ENTIRE BUILDING ☐ SELECTED COMPARTMENTS ☐ SELECTED FLOOR AREAS ☐ BASEMENT ☐ IN LIEU OF RATING ☐ NOT REQUIRED		3.2.2.20.-83 / 9.10.8.2 3.2.1.5 3.2.2.17 INDEX / INDEX
9.	STANDPIPE REQUIRED	☐ YES ☒ NO		3.2.9 / N/A
10.	FIRE ALARM REQUIRED	☐ YES ☒ NO		3.2.4 / 9.10.18
11.	WATER SERVICE SUPPLY IS ADEQUATE	☒ YES ☐ NO		3.2.5.7 / N/A
12.	HIGH BUILDING	☐ YES ☒ NO		3.2.6 / N/A
13.	CONSTRUCTION RESTRICTIONS ACTUAL CONSTRUCTION	☐ COMBUSTIBLE PERMITTED ☐ NON-COMBUSTIBLE REQUIRED ☒ BOTH ☐ COMBUSTIBLE ☒ NON-COMBUSTIBLE ☐ BOTH		3.2.2.20.-83 / 9.10.6
14.	MEZZANINE(s) AREA (m²) 216.19			3.2.2.1.1.(3)-(8) / 9.10.4.1
15.	OCCUPANT LOAD BASED ON 1st FLOOR: OCCUPANCY D LOAD 49 PERSONS 1st FLOOR: OCCUPANCY F2 LOAD 80 PERSONS 2nd FLOOR: OCCUPANCY D LOAD 24 PERSONS	☐ m² / PERSON ☒ DESIGN OF BUILDING		3.1.17 / 9.9.1.3
16.	BARRIER FREE DESIGN	☒ YES ☐ NO (EXPLAIN)		3.8 / 9.5.2
17.	HAZARDOUS SUBSTANCES	☐ YES ☒ NO		3.3.1.2 & 3.3.1.19 / 9.10.1.3.(4)
18.	REQUIRED FIRE RESISTANCE RATING (F.R.R.)	HORIZONTAL ASSEMBLIES F.R.R. (HOURS) / LISTED DESIGN No. OR DESCRIPTION (SG-2) FLOORS 3/4 HOURS — ULC I501 ROOF — HOURS MEZZANINE — HOURS		3.2.2.20.-83 & 3.2.1.4. / 9.10.8 9.10.9
		F.R.R OF SUPPORTING MEMBERS FLOORS 3/4 HOURS ROOF — HOURS MEZZANINE — HOURS		
19.	SPATIAL SEPERATION: CONSTRUCTION OF EXTERIOR WALLS			3.2.3 / 9.10.14

WALL	AREA OF E.B.F. (m²)	L.D. (m)	L/H or H/L	PERMITTED MAX % OF OPENINGS	PROPOSED % OF OPENINGS	F.R.R. (HOURS)	LISTED DESIGN OR DESCRIPTION	COMB CONST.	COMB CONSTRUCTION NON COMBUSTIBLE CLADDING	NON COMBUSTIBLE CONSTRUCTION
NORTH	643.69	21.62	3:1 – 10:1	100	14	0				X
SOUTH	643.69	50	3:1 – 10:1	100	23	0				X
EAST	564.79	100+	3:1 – 10:1	100	21	0				X
WEST	564.79	100+	3:1 – 10:1	100	21	0				X

20. PLUMBING FIXTURE REQUIREMENTS

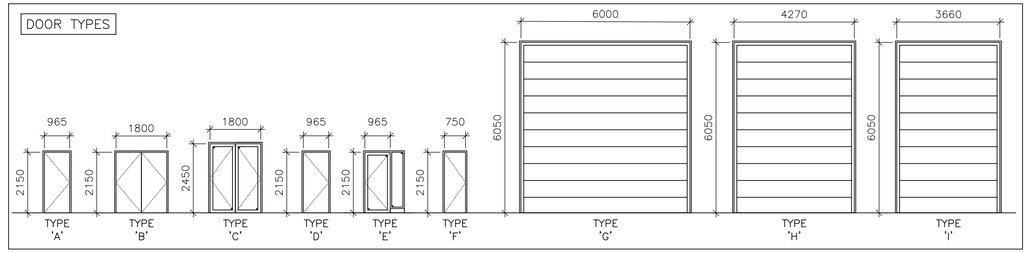
BC Reference: ☒ PART 3 / ☐ PART 9

MALE / FEMALE COUNT @ ___% / ___% (EXCEPT OTHERWISE NOTED)

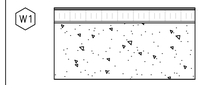
1st FLOOR: OCCUPANCY D
OCCUPANCY F2
2nd FLOOR: OCCUPANCY D
OCCUPANCY

OCCUPANT LOAD	BUILDING CODE TABLE NO.	FIXTURES REQUIRED	FIXTURES PROVIDED		
49	3.7.4.7.	3	3		
80	3.7.4.9.	5	5		
24	3.7.4.7.	2	2		

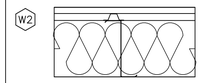
DOOR TYPES



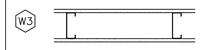
ARCHITECTURAL WALL SCHEDULE



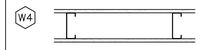
W1 — EXTERIOR SHOP WALL–BELOW
STEEL CLADDING
38 RIGID INSULATION (R9.5)
BLUESKIN BARRIER
200 CONCRETE



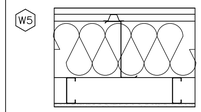
W2 — EXTERIOR SHOP WALL–ABOVE
7/8" STRUKTUROC WALL PANEL
7/8" FURRING CHANNEL
8" WALL GIRT
BATT INSULATION (R13+R6.5ci)



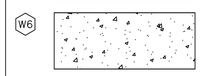
W3 — INTERIOR PARTITION WALL
1/2" GYPSUM WALL BOARD
3 5/8" STEEL STUDS @ 16" O/C
1/2" GYPSUM WALL BOARD
(PAINTED BOTH SIDES)



W4 — INTERIOR PARTITION WALL (3/4 HR FS)
5/8" TYPE–X GYPSUM WALL BOARD
3 5/8" STEEL STUDS @ 16" O/C
5/8" TYPE–X GYPSUM WALL BOARD
(PAINTED BOTH SIDES)

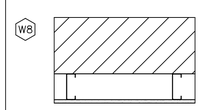


W5 — EXTERIOR OFFICE WALL
7/8" STRUKTUROC WALL PANEL
FURRING CHANNEL
8" WALL GIRT
BATT INSULATION (R13+R6.5ci)
3 5/8" STEEL STUDS @ 16" O/C
1/2" GYPSUM WALL BOARD



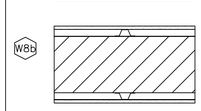
W6 — SHOP DIVIDING WALL– BELOW
200 CONCRETE

W7 — SHOP DIVIDING WALL– ABOVE
200 INSULATED WALL PANEL

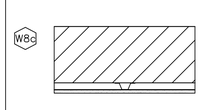


W8 — WALL BETWEEN OFFICE & SHOP
190 CMU
3 5/8" STEEL STUDS @ 16" O/C
1/2" GYPSUM WALL BOARD

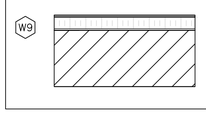
W8a — CMU WALL
190 CMU



W8b — CMU WALL– GWB BOTH SIDES
12 GYPSUM WALL BOARD
22 FURRING CHANNEL
190 CMU
22 FURRING CHANNEL
12 GYPSUM WALL BOARD

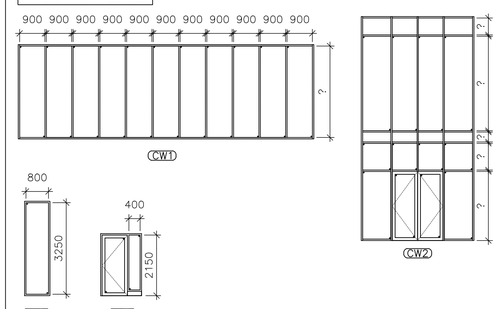


W8c — CMU WALL– GWB ONE SIDE
190 CMU
22 FURRING CHANNEL
12 GYPSUM WALL BOARD



W9 — WALL BETWEEN OFFICE & SHOP– ABOVE ROOF
STEEL CLADDING
38 RIGID INSULATION (R9.5)
BLUESKIN MEMBRANE
190 CMU

WINDOW SCHEDULE



FLOOR SCHEDULE

FL1 — SLAB ON GRADE–OFFICE
150 CONCRETE
R15 FOR 48"

FL1c — SLAB ON GRADE–SHOP
150 CONCRETE

FL2 — OFFICE FLOOR– SECOND FLOOR
102 CONCRETE SLAB
38 COMPOSITE STEEL DECK
OWSJ
22 FURRING CHANNEL
16 GWB 3/4 HR FRR
ACOUSTIC CEILING TILE

FL2c — SHOP MEZZANINE
4" CONCRETE SLAB
1 1/2" COMPOSITE STEEL DECK
OWSJ

ROOF SCHEDULE

R1 — SHOP ROOF
STEEL ROOFING
200 ROOF GIRT
VINYL FACED BATT INSULATION
(R19+R11Ls)

R2 — OFFICE ROOF
STEEL ROOFING
200 ROOF GIRT
VINYL FACED BATT INSULATION
(R25+R11+R11Ls)
ACOUSTIC CEILING TILE

NO.	REVISION	DATE	BY	APPROVED
4	ISSUED FOR PRICING	22/08/12	R.B.	D.D.B.
3	REVISED FOR MUNICIPAL COMMENTS	22/02/16	R.B.	D.D.B.
2	REVISED FOR MUNICIPAL COMMENTS	21/12/17	R.B.	D.D.B.
1	ISSUED FOR FOUNDATION PERMIT	21/05/20	R.B.	D.D.B.

REVISIONS

505 LAKE RD. BOWMANVILLE, ON.
CLEARWATER STRUCTURES INC.

OBC MATRIX & SCHEDULES

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SCALE:	AS SHOWN	PROJECT NO.	120004
DRAWN BY:	R.D.B.	DRAWING NO.	A102
DESIGN BY:	D.D.B.		
CHECKED BY:	D.D.B.	CAD FILE:— PLOT DATE: 22/08/12 SUBMISSION: PRICING	
DATE:	MAY 2020		

DOOR SCHEDULE

DOOR NO.	DOOR SIZE	DOOR TYPE	DOOR		FRAME		LOCK	CLOSERS	GLASS	DOOR FIRE RATING	OPERATION TYPE
			MATERIAL	FINISH	MATERIAL	FINISH					
D101	1820x2450	C	GLASS	GLAZING	ALUMNINUM	PRE-FIN	●	●	●		SWING
D102	965x2150	E	GLASS	GLAZING	ALUMNINUM	PRE-FIN	●	●	●		SWING
D103	965x2150	E	GLASS	GLAZING	ALUMNINUM	PRE-FIN	●	●	●		SWING
D104	965x2150	D	HOLLOW METAL	PNT	STEEL	PNT	●	●			SWING
D105	965x2150	E	GLASS	GLAZING	ALUMNINUM	PRE-FIN	●	●	●		SWING
D106	965x2150	D	HOLLOW METAL	PNT	STEEL	PNT	●	●		1 HR.	SWING
D107	965x2150	A	HOLLOW METAL	PNT	STEEL	PNT	●	●			SWING
D108	965x2150	D	HOLLOW METAL	PNT	STEEL	PNT	●	●			SWING
D109	750x2150	F	HOLLOW METAL	PNT	STEEL	PNT	●	●			SWING
D110	965x2150	E	GLASS	GLAZING	ALUMNINUM	PRE-FIN	●	●	●		SWING
D111	965x2150	D	HOLLOW METAL	PNT	STEEL	PNT	●	●		1 HR.	SWING
D112	965x2150	E	GLASS	GLAZING	ALUMNINUM	PRE-FIN	●	●	●		SWING
D113	965x2150	E	GLASS	GLAZING	ALUMNINUM	PRE-FIN	●	●	●		SWING
D114	965x2150	E	GLASS	GLAZING	ALUMNINUM	PRE-FIN	●	●	●		SWING
D115	965x2150	D	HOLLOW METAL	PNT	STEEL	PNT	●	●			SWING
D116	965x2150	D	HOLLOW METAL	PNT	STEEL	PNT	●	●			SWING
D117	965x2150	D	HOLLOW METAL	PNT	STEEL	PNT	●	●		1.5 HR.	SWING
D118	750x2150	F	HOLLOW METAL	PNT	STEEL	PNT	●	●			SWING
D119	750x2150	F	HOLLOW METAL	PNT	STEEL	PNT	●	●			SWING
D120	965x2150	A	HOLLOW METAL	PNT	STEEL	PNT	●	●		1.5 HR.	SWING
D121	1800x2150	B	HOLLOW METAL	PNT	STEEL	PNT	●	●			SWING
D122	965x2150	A	HOLLOW METAL	PNT	STEEL	PNT	●	●			SWING
D123	965x2150	A	HOLLOW METAL	PNT	STEEL	PNT	●	●			SWING
D124	965x2150	A	HOLLOW METAL	PNT	STEEL	PNT	●	●			SWING
D125	965x2150	A	HOLLOW METAL	PNT	STEEL	PNT	●	●			SWING
D126	965x2150	A	HOLLOW METAL	PNT	STEEL	PNT	●	●			SWING
D127	6000x6050	G	METAL ROLL UP DOORS	PNT	STEEL	PNT	●				OVERHEAD
D128	965x2150	A	HOLLOW METAL	PNT	STEEL	PNT	●	●			SWING
D129	6000x6050	G	METAL ROLL UP DOORS	PNT	STEEL	PNT	●				OVERHEAD
D130	965x2150	A	HOLLOW METAL	PNT	STEEL	PNT	●	●			SWING
D131	4270x6050	H	METAL ROLL UP DOORS	PNT	STEEL	PNT	●				OVERHEAD
D132	965x2150	A	HOLLOW METAL	PNT	STEEL	PNT	●	●			SWING
D133	3360x6050	I	METAL ROLL UP DOORS	PNT	STEEL	PNT	●				OVERHEAD
D134	965x2150	A	HOLLOW METAL	PNT	STEEL	PNT	●	●			SWING
D135	6000x6050	G	METAL ROLL UP DOORS	PNT	STEEL	PNT	●				OVERHEAD
D136	965x2150	A	HOLLOW METAL	PNT	STEEL	PNT	●	●			SWING
D137	6000x6050	G	METAL ROLL UP DOORS	PNT	STEEL	PNT	●				OVERHEAD
D138	965x2150	A	HOLLOW METAL	PNT	STEEL	PNT	●	●			SWING
D139	6000x6050	G	METAL ROLL UP DOORS	PNT	STEEL	PNT	●				OVERHEAD
D140	965x2150	A	HOLLOW METAL	PNT	STEEL	PNT	●	●			SWING
D141	965x2150	A	HOLLOW METAL	PNT	STEEL	PNT	●	●			SWING
D142	1800x2150	B	HOLLOW METAL	PNT	STEEL	PNT	●	●			SWING
D143	965x2150	D	HOLLOW METAL	PNT	STEEL	PNT	●	●			SWING
D144	750x2150	F	HOLLOW METAL	PNT	STEEL	PNT	●	●			SWING

DOOR SCHEDULE

DOOR NO.	DOOR SIZE	DOOR TYPE	DOOR		FRAME		LOCK	CLOSERS	GLASS	DOOR FIRE RATING	OPERATION TYPE
			MATERIAL	FINISH	MATERIAL	FINISH					
D145	6000x6050	G	METAL ROLL UP DOORS	PNT	STEEL	PNT	●				OVERHEAD
D146	6000x6050	G	METAL ROLL UP DOORS	PNT	STEEL	PNT	●				OVERHEAD
D147	6000x6050	G	METAL ROLL UP DOORS	PNT	STEEL	PNT	●				OVERHEAD
D148	750x2150	F	HOLLOW METAL	PNT	STEEL	PNT	●	●			SWING
D149	750x2150	F	HOLLOW METAL	PNT	STEEL	PNT	●	●			SWING
D150	750x2150	F	HOLLOW METAL	PNT	STEEL	PNT	●	●			SWING
D151	750x2150	F	HOLLOW METAL	PNT	STEEL	PNT	●	●			SWING
D152	965x2150	A	HOLLOW METAL	PNT	STEEL	PNT	●	●			SWING
D153	965x2150	A	HOLLOW METAL	PNT	STEEL	PNT	●	●			SWING
D154	965x2150	A	HOLLOW METAL	PNT	STEEL	PNT	●	●			SWING
D155	965x2150	A	HOLLOW METAL	PNT	STEEL	PNT	●	●			SWING
D201	965x2150	D	HOLLOW METAL	PNT	STEEL	PNT	●	●		1 HR.	SWING
D202	965x2150	E	GLASS	GLAZING	ALUMNINUM	PRE-FIN	●	●	●		SWING
D203	965x2150	D	HOLLOW METAL	PNT	STEEL	PNT	●	●		1 HR.	SWING
D204	750x2150	F	HOLLOW METAL	PNT	STEEL	PNT	●	●			SWING
D205	750x2150	F	HOLLOW METAL	PNT	STEEL	PNT	●	●			SWING
D206	750x2150	F	HOLLOW METAL	PNT	STEEL	PNT	●	●		1.5 HR.	SWING
D207	750x2150	F	HOLLOW METAL	PNT	STEEL	PNT	●	●			SWING
D208	965x2150	D	HOLLOW METAL	PNT	STEEL	PNT	●	●		1 HR.	SWING
D209	965x2150	D	HOLLOW METAL	PNT	STEEL	PNT	●	●			SWING
D210	965x2150	D	HOLLOW METAL	PNT	STEEL	PNT	●	●		1.5 HR.	SWING

NO.	REVISION	DATE	BY	APPROVED
4	ISSUED FOR PRICING	22/08/12	R.B.	D.D.B.
3	REVISED FOR MUNICIPAL COMMENTS	22/02/16	R.B.	D.D.B.
2	REVISED FOR MUNICIPAL COMMENTS	21/12/17	R.B.	D.D.B.
1	ISSUED FOR FOUNDATION PERMIT	21/05/20	R.B.	D.D.B.

REVISIONS

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CLEARWATER STRUCTURES INC.

DOOR SCHEDULE

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SCALE:	AS SHOWN	PROJECT NO.	120004
DRAWN BY:	R.D.B.	DRAWING NO.	A103
DESIGN BY:	D.D.B.		
CHECKED BY:	D.D.B.	CAD FILE: --	
DATE:	MAY 2020	PLOT DATE:	22/08/12
		SUBMISSION:	PRICING

ROOM FINISH SCHEDULE

ROOM		NORTH WALL		SOUTH WALL		EAST WALL		WEST WALL		FLOOR			CEILING	
ROOM NO.	ROOM NAME	MATERIAL	FINISH	MATERIAL	FINISH	MATERIAL	FINISH	MATERIAL	FINISH	MATERIAL	FINISH	BASE	MATERIAL	FINISH
101	VESTIBULE	GLASS	GLAZING	GWB	PNT	GWB	PNT	GWB	PNT	CONCRETE	POLISHED	RRB	ACT	ACT
102	RECEPTION ROOM	GLASS/GWB	GLAZING/PNT	GWB	PNT	GWB	PNT	GWB	PNT	CONCRETE	POLISHED	RRB	ACT	ACT
103	MEETING ROOM	GLASS/GWB	GLAZING/PNT	GWB	PNT	GWB	PNT	GWB	PNT	CONCRETE	POLISHED	RRB	ACT	ACT
104	WEST STAIR	GWB	PNT	GWB	PNT	GWB	PNT	GLASS/GWB	GLAZING/PNT	CONCRETE	POLISHED	RRB	PRE-ENG BUILDING FIN	PRE-ENG BUILDING FIN
105	OPEN OFFICE	GLASS/GWB	GLAZING/PNT	GWB	PNT	GWB	PNT	GWB	PNT	CONCRETE	POLISHED	RRB	ACT	ACT
106	PRINTER/COPY ROOM	GWB	PNT	GWB	PNT	GWB	PNT	GWB	PNT	CONCRETE	POLISHED	RRB	ACT	ACT
107	STAFF LUNCH ROOM	GWB	PNT	GWB	PNT	GWB	PNT	GWB	PNT	CONCRETE	POLISHED	RRB	ACT	ACT
108	I.T. CLOSET	GWB	PNT	GWB	PNT	GWB	PNT	GWB	PNT	CONCRETE	POLISHED	RRB	ACT	ACT
109	CORRIDOR	GWB	PNT	GWB	PNT	GWB	PNT	GWB	PNT	CONCRETE	POLISHED	RRB	ACT	ACT
110	WASHROOM #1	GWB	PNT	GWB	PNT	GWB	PNT	GWB	PNT	CONCRETE	POLISHED	RRB	ACT	ACT
111	WASHROOM #2	GWB	PNT	GWB	PNT	GWB	PNT	GWB	PNT	CONCRETE	POLISHED	RRB	ACT	ACT
112	UNIVERSAL WASHROOM	GWB	PNT	GWB	PNT	GWB	PNT	GWB	PNT	CONCRETE	POLISHED	RRB	ACT	ACT
113	EAST STAIR	GWB	PNT	GWB	PNT	GLASS/GWB	GLAZING/PNT	GWB	PNT	CONCRETE	POLISHED	RRB	PRE-ENG BUILDING FIN	PRE-ENG BUILDING FIN
114	SPRINKLER ROOM	PRE-ENG BUILDING FIN	PRE-ENG BUILDING FIN	PRE-ENG BUILDING FIN	PRE-ENG BUILDING FIN	PRE-ENG BUILDING FIN	PRE-ENG BUILDING FIN	PRE-ENG BUILDING FIN	PRE-ENG BUILDING FIN	CONCRETE	POLISHED	RRB	PRE-ENG BUILDING FIN	PRE-ENG BUILDING FIN
115	MECHANICAL ROOM	PRE-ENG BUILDING FIN	PRE-ENG BUILDING FIN	PRE-ENG BUILDING FIN	PRE-ENG BUILDING FIN	PRE-ENG BUILDING FIN	PRE-ENG BUILDING FIN	PRE-ENG BUILDING FIN	PRE-ENG BUILDING FIN	CONCRETE	POLISHED	RRB	PRE-ENG BUILDING FIN	PRE-ENG BUILDING FIN
116	ELECTRICAL ROOM	PRE-ENG BUILDING FIN	PRE-ENG BUILDING FIN	PRE-ENG BUILDING FIN	PRE-ENG BUILDING FIN	PRE-ENG BUILDING FIN	PRE-ENG BUILDING FIN	PRE-ENG BUILDING FIN	PRE-ENG BUILDING FIN	CONCRETE	POLISHED	RRB	PRE-ENG BUILDING FIN	PRE-ENG BUILDING FIN
117	BARRIER FREE WASHROOM	GWB	PNT	GWB	PNT	GWB	PNT	GWB	PNT	CONCRETE	POLISHED	RRB	ACT	ACT
118	JANITOR ROOM	GWB	PNT	GWB	PNT	GWB	PNT	GWB	PNT	CONCRETE	POLISHED	RRB	ACT	ACT
119	CORRIDOR	GWB	PNT	GWB	PNT	GWB	PNT	GWB	PNT	CONCRETE	POLISHED	RRB	ACT	ACT
120	MEN'S WASHROOM	GWB	PNT	GWB	PNT	GWB	PNT	GWB	PNT	CONCRETE	POLISHED	RRB	ACT	ACT
121	CUSTODIAN ROOM	PRE-ENG BUILDING FIN	PRE-ENG BUILDING FIN	PRE-ENG BUILDING FIN	PRE-ENG BUILDING FIN	PRE-ENG BUILDING FIN	PRE-ENG BUILDING FIN	PRE-ENG BUILDING FIN	PRE-ENG BUILDING FIN	CONCRETE	POLISHED	RRB	PRE-ENG BUILDING FIN	PRE-ENG BUILDING FIN
122	SERVICE ROOM	GWB	PNT	GWB	PNT	GWB	PNT	GWB	PNT	CONCRETE	POLISHED	RRB	ACT	ACT
123	LUNCH ROOM	GWB	PNT	GWB	PNT	GWB	PNT	GWB	PNT	CONCRETE	POLISHED	RRB	ACT	ACT
124	SHOP	PRE-ENG BUILDING FIN	PRE-ENG BUILDING FIN	PRE-ENG BUILDING FIN	PRE-ENG BUILDING FIN	PRE-ENG BUILDING FIN	PRE-ENG BUILDING FIN	PRE-ENG BUILDING FIN	PRE-ENG BUILDING FIN	CONCRETE	POLISHED	RRB	PRE-ENG BUILDING FIN	PRE-ENG BUILDING FIN
125	GARBAGE ROOM	PRE-ENG BUILDING FIN	PRE-ENG BUILDING FIN	PRE-ENG BUILDING FIN	PRE-ENG BUILDING FIN	PRE-ENG BUILDING FIN	PRE-ENG BUILDING FIN	PRE-ENG BUILDING FIN	PRE-ENG BUILDING FIN	CONCRETE	POLISHED	RRB	PRE-ENG BUILDING FIN	PRE-ENG BUILDING FIN
126	ELEVATOR	CMU	CMU	CMU	CMU	CMU	CMU	CMU	CMU				CONC. W/ MTL DECK	
127	MACHINE ROOM	GWB	PNT	GWB	PNT	GWB	PNT	GWB	PNT	CONCRETE	POLISHED	RRB	PRE-ENG BUILDING FIN	PRE-ENG BUILDING FIN
201	EAST STAIR	GWB	PNT	GWB	PNT	GLASS/GWB	GLAZING/PNT	GWB	PNT	CONCRETE	POLISHED	RRB	PRE-ENG BUILDING FIN	PRE-ENG BUILDING FIN
202	MEETING ROOM	GLASS/GWB	GLAZING/PNT	GWB	PNT	GWB	PNT	GWB	PNT	CONCRETE	POLISHED	RRB	ACT	ACT
203	CORRIDOR	GWB	PNT	GWB	PNT	GWB	PNT	GWB	PNT	CONCRETE	POLISHED	RRB	ACT	ACT
204	STORAGE	GWB	PNT	GWB	PNT	GWB	PNT	GWB	PNT	CONCRETE	POLISHED	RRB	ACT	ACT
205	JANITOR ROOM	GWB	PNT	GWB	PNT	GWB	PNT	GWB	PNT	CONCRETE	POLISHED	RRB	ACT	ACT
206	WASHROOM #2	GWB	PNT	GWB	PNT	GWB	PNT	GWB	PNT	CONCRETE	POLISHED	RRB	ACT	ACT
207	WASHROOM #1	GWB	PNT	GWB	PNT	GWB	PNT	GWB	PNT	CONCRETE	POLISHED	RRB	ACT	ACT
208	PRINTER/COPY ROOM	GWB	PNT	GWB	PNT	GWB	PNT	GWB	PNT	CONCRETE	POLISHED	RRB	ACT	ACT
209	OPEN OFFICE	GLASS/GWB	GLAZING/PNT	GWB	PNT	GWB	PNT	GWB	PNT	CONCRETE	POLISHED	RRB	ACT	ACT
210	WEST STAIR	GWB	PNT	GWB	PNT	GWB	PNT	GLASS/GWB	GLAZING/PNT	CONCRETE	POLISHED	RRB	PRE-ENG BUILDING FIN	PRE-ENG BUILDING FIN

NO.	REVISION	DATE	BY	APPROVED
4	ISSUED FOR PRICING	22/08/12	R.B.	D.D.B.
3	REVISED FOR MUNICIPAL COMMENTS	22/02/16	R.B.	D.D.B.
2	REVISED FOR MUNICIPAL COMMENTS	21/12/17	R.B.	D.D.B.
1	ISSUED FOR FOUNDATION PERMIT	21/05/20	R.B.	D.D.B.

REVISIONS

505 LAKE RD. BOWMANVILLE, ON.
CLEARWATER STRUCTURES INC.

ROOM FINISH SCHEDULE

D.G. Biddle & Associates Limited
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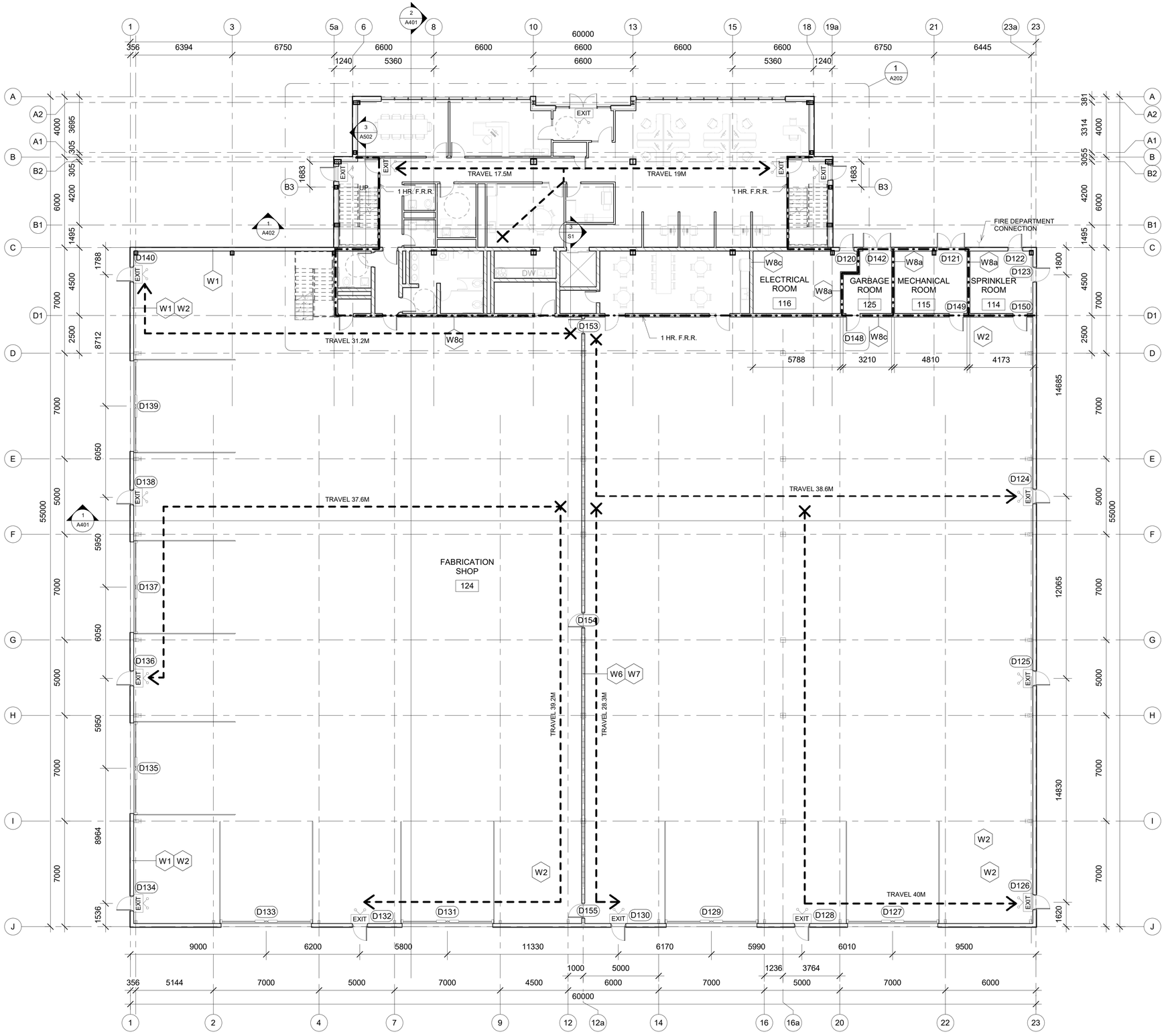
96 KING STREET EAST • OSHAWA,ON L1H 1B6
PHONE (905)576-8500 • FAX (905)576-9730
info@dgbiddle.com

SCALE:	AS SHOWN	PROJECT NO.	120004
DRAWN BY:	R.D.B.	DRAWING NO.	A104
DESIGN BY:	D.D.B.		
CHECKED BY:	D.D.B.	CAD FILE: –	
DATE:	MAY 2020	PLOT DATE:	22/08/12
		SUBMISSION:	PRICING



1 A201 FIRST FLOOR
1 : 125

LEGEND

- TRAVEL DISTANCE (45M MAXIMUM)
- 3/4 HR FIRE SEPARATION
- 2 HR FIRE SEPARATION
- EXIT — BUILDING EXIT SIGN WITH LIGHTING

NO.	REVISIONS	DATE	BY	APPROVED
4	ISSUED FOR PRICING	22/08/12	R.B.	D.D.B.
3	REVISED FOR MUNICIPAL COMMENTS	22/02/16	R.B.	D.D.B.
2	REVISED FOR MUNICIPAL COMMENTS	21/12/17	R.B.	D.D.B.
1	ISSUED FOR FOUNDATION PERMIT	21/05/20	R.B.	D.D.B.

REVISIONS

505 LAKE RD. BOWMANVILLE, ON.
CLEARWATER STRUCTURES INC.

FIRST FLOOR PLAN

D.G. Biddle & Associates Limited
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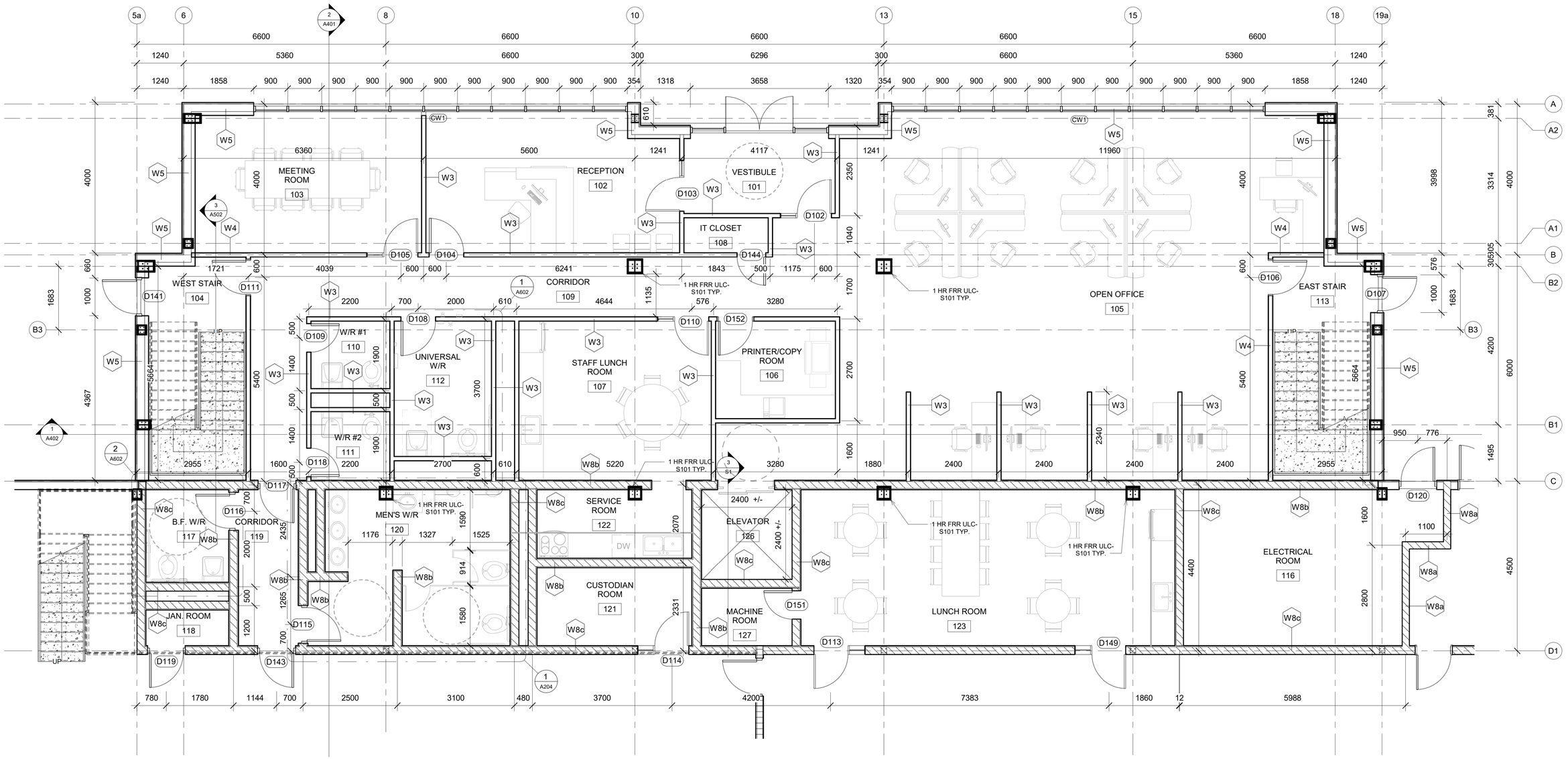
SCALE: AS SHOWN	PROJECT NO. 120004
DRAWN BY: R.D.B.	DRAWING NO. A201
DESIGN BY: D.D.B.	
CHECKED BY: D.D.B.	CAD FILE:
DATE: MAY 2020	PLOT DATE: 22/08/12 SUBMISSION: PRICING



1 A202 FIRST FLOOR - ENLARGED
1 : 50

NO.	REVISIONS	DATE	BY	APPROVED
4	ISSUED FOR PRICING	22/08/12	R.B.	D.D.B.
3	REVISED FOR MUNICIPAL COMMENTS	22/02/16	R.B.	D.D.B.
2	REVISED FOR MUNICIPAL COMMENTS	21/12/17	R.B.	D.D.B.
1	ISSUED FOR FOUNDATION PERMIT	21/05/20	R.B.	D.D.B.

REVISIONS

505 LAKE RD. BOWMANVILLE, ON.
CLEARWATER STRUCTURES INC.

ENLARGED FIRST FLOOR PLAN

D.G. Biddle & Associates Limited
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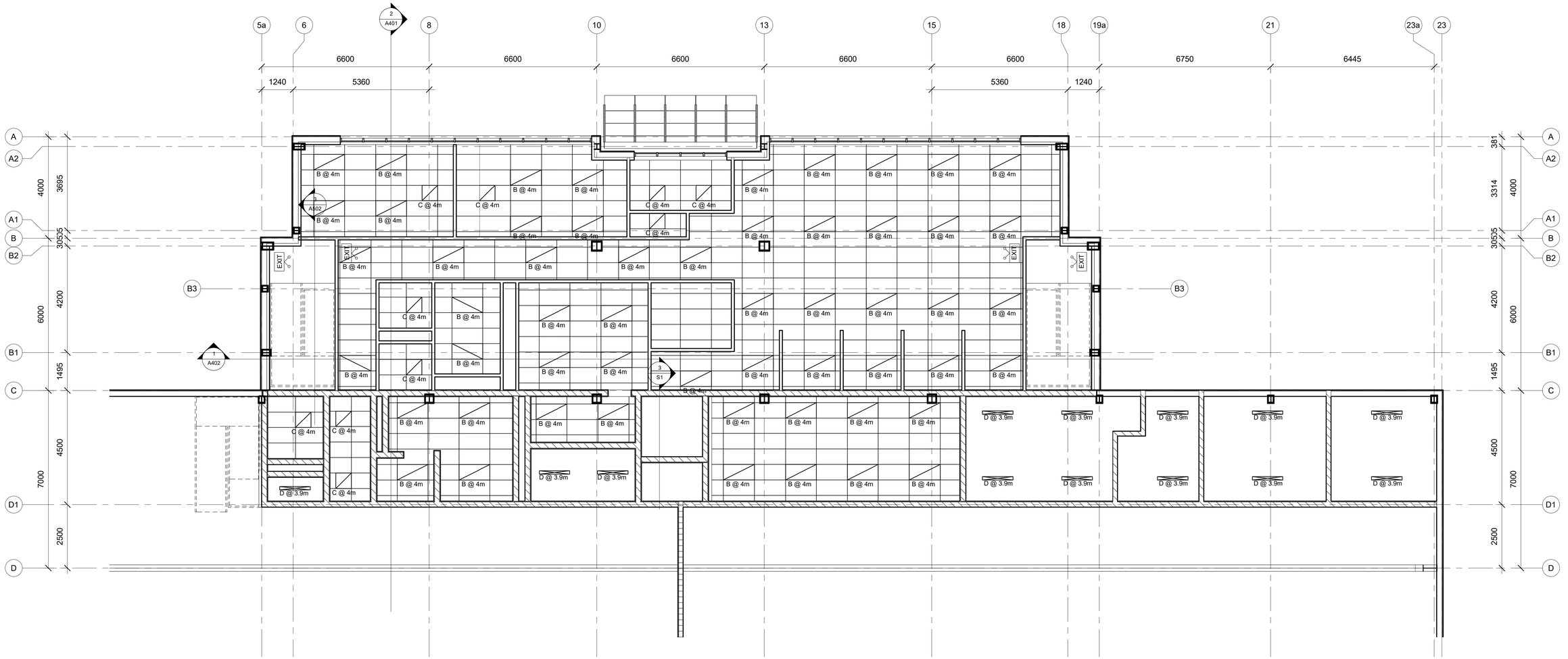
SCALE: AS SHOWN	PROJECT NO. 120004
DRAWN BY: R.D.B.	DRAWING NO. A202
DESIGN BY: D.D.B.	
CHECKED BY: D.D.B.	CAD FILE:
DATE: MAY 2020	PLOT DATE: 22/08/12
	SUBMISSION: PRICING



1 / A203 FIRST FLOOR
1 : 75

LIGHT FIXTURE SCHEDULE			
SYMBOL	LABEL	QTY	DESCRIPTION
0	A	56	IBG LED HIGH BAY, 24 INCH, 18,000 LUMENS, STANDARD EFFICIENCY, ACRYLIC CLEAR LENS, GENERAL DISTRIBUTION, 4000 K 80 CRI
	B	43	BLT 2X4, 4000 NOMINAL LUMENS, CURVED LINEAR PRISMATIC LENS, 4000K CCT
	C	5	BLT 2X2, 4000 NOMINAL LUMENS, CURVED LINEAR PRISMATIC LENS, 4000K CCT
	D	6	BLWP 4FT 4800 NOMINAL LUMENS, CURVED LINEAR PRISMATIC LENS, 4000K CCT, 80CRI
EXIT			BUILDING EXIT SIGN WITH LIGHTING

NO.	REVISIONS	DATE	BY	APPROVED
4	ISSUED FOR PRICING	22/08/12	R.B.	D.D.B.
3	REVISED FOR MUNICIPAL COMMENTS	22/02/16	R.B.	D.D.B.
2	REVISED FOR MUNICIPAL COMMENTS	21/12/17	R.B.	D.D.B.
1	ISSUED FOR FOUNDATION PERMIT	21/05/20	R.B.	D.D.B.

REVISIONS

505 LAKE RD. BOWMANVILLE, ON.
CLEARWATER STRUCTURES INC.

FIRST FLOOR REFLECTED CEILING PLAN

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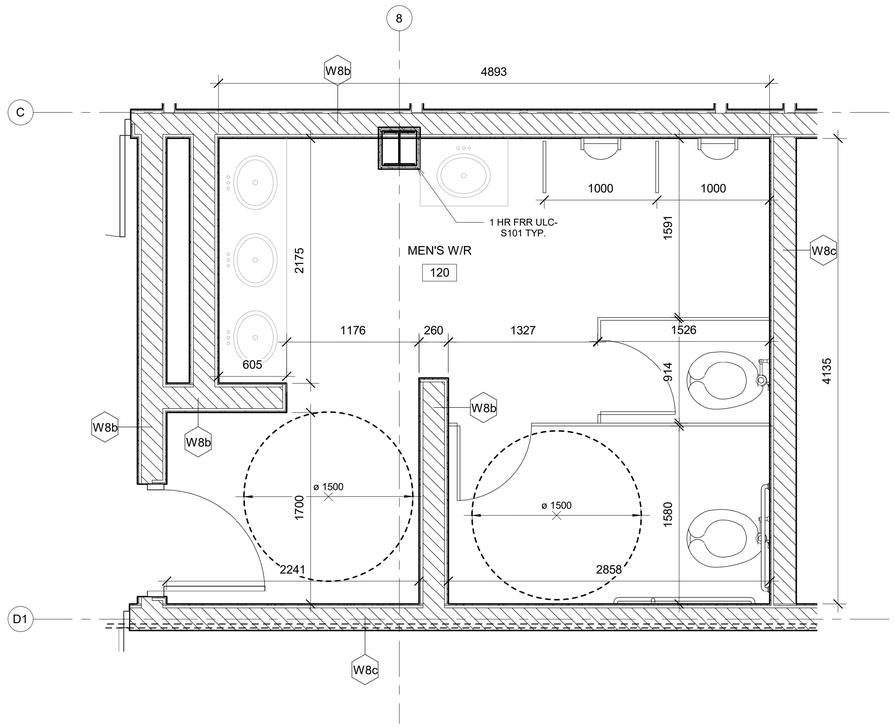
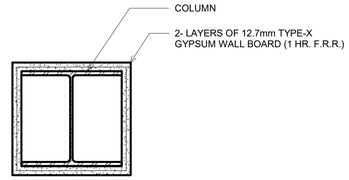
SCALE: AS SHOWN	PROJECT NO. 120004
DRAWN BY: R.D.B.	DRAWING NO. A203
DESIGN BY: D.D.B.	
CHECKED BY: D.D.B.	CAD FILE:
DATE: MAY 2020	PLOT DATE: 22/08/12
	SUBMISSION: PRICING



1 / A204 MENS WASHROOM- ENLARGED
1 : 25



2 / A204 FIRE RATED COLUMN DETAIL
1 : 10

NO.	REVISIONS	DATE	BY	APPROVED
4	ISSUED FOR PRICING	22/08/12	R.B.	D.D.B.
3	REVISED FOR MUNICIPAL COMMENTS	22/02/16	R.B.	D.D.B.
2	REVISED FOR MUNICIPAL COMMENTS	21/12/17	R.B.	D.D.B.
1	ISSUED FOR FOUNDATION PERMIT	21/05/20	R.B.	D.D.B.

REVISIONS

505 LAKE RD. BOWMANVILLE, ON.
CLEARWATER STRUCTURES INC.

FIRST FLOOR DETAILS

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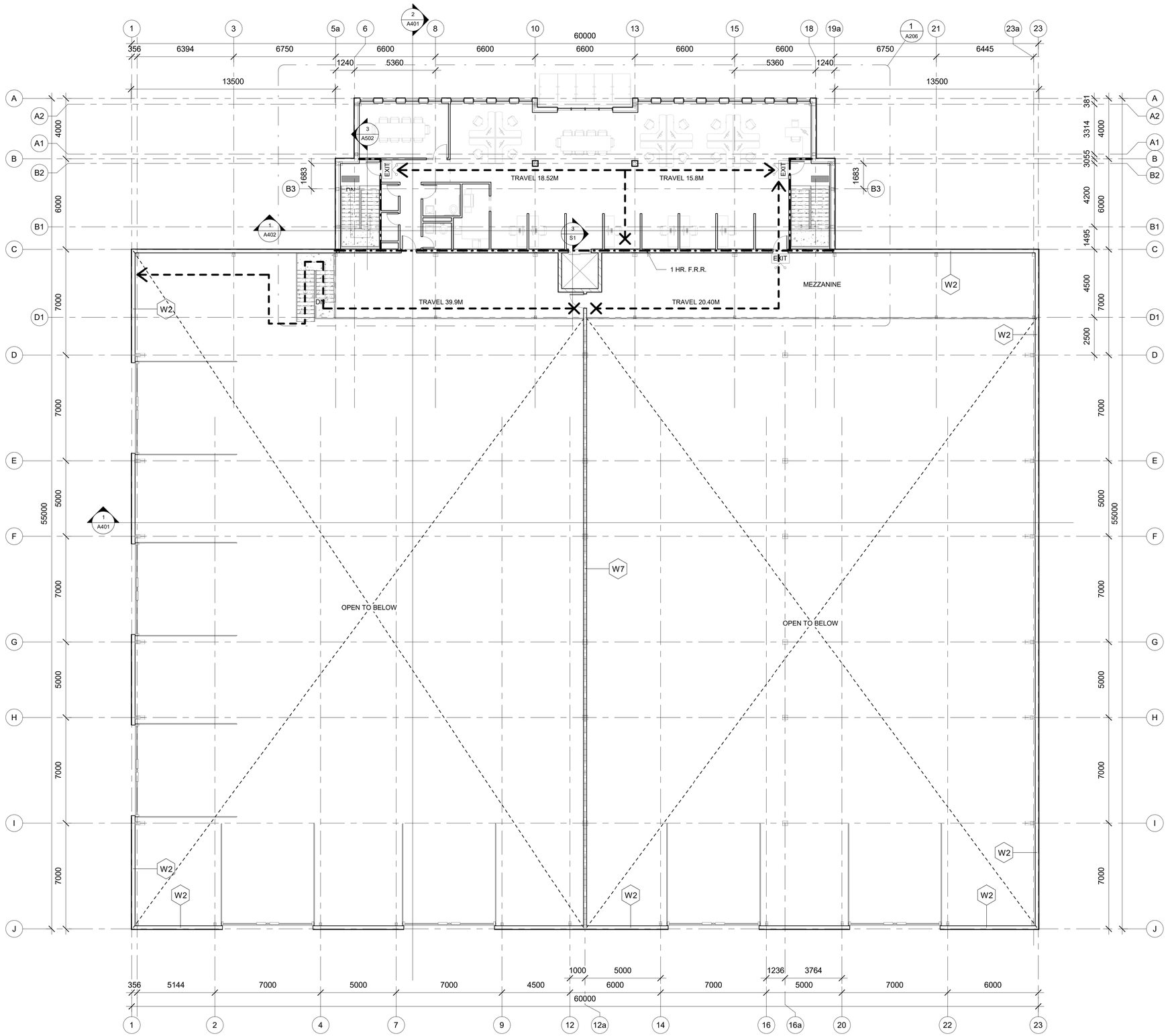
SCALE: AS SHOWN	PROJECT NO. 120004
DRAWN BY: R.D.B.	DRAWING NO. A204
DESIGN BY: D.D.B.	
CHECKED BY: D.D.B.	CAD FILE:
DATE: MAY 2020	PLOT DATE: 22/08/12 SUBMISSION: PRICING



1 / A205 SECOND FLOOR
1 : 125

LEGEND

- TRAVEL DISTANCE (45M MAXIMUM)
- 3/4 HR FIRE SEPARATION
- 2 HR FIRE SEPARATION
- EXIT — BUILDING EXIT SIGN WITH LIGHTING

NO.	REVISIONS	DATE	BY	APPROVED
4	ISSUED FOR PRICING	22/08/12	R.B.	D.D.B.
3	REVISED FOR MUNICIPAL COMMENTS	22/02/16	R.B.	D.D.B.
2	REVISED FOR MUNICIPAL COMMENTS	21/12/17	R.B.	D.D.B.
1	ISSUED FOR FOUNDATION PERMIT	21/05/20	R.B.	D.D.B.

REVISIONS

505 LAKE RD. BOWMANVILLE, ON.
CLEARWATER STRUCTURES INC.

SECOND FLOOR PLAN

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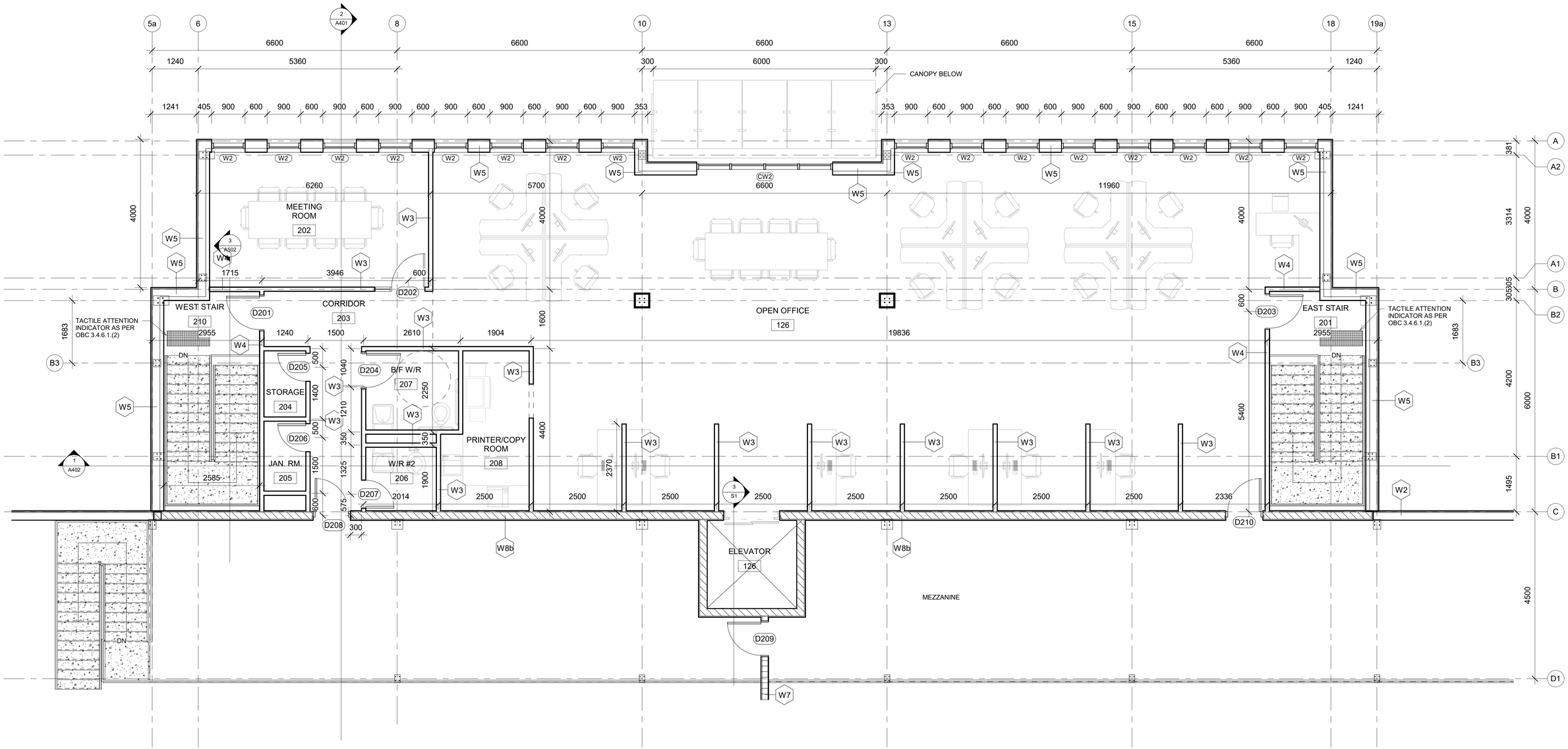
SCALE: AS SHOWN	PROJECT NO. 120004
DRAWN BY: R.D.B.	DRAWING NO. A205
DESIGN BY: D.D.B.	
CHECKED BY: D.D.B.	CAD FILE:
DATE: MAY 2020	PLOT DATE: 22/08/12 SUBMISSION: PRICING



1 A206 SECOND FLOOR - ENLARGED
1 : 50

NO.	REVISIONS	DATE	BY	APPROVED
4	ISSUED FOR PRICING	22/08/12	R.B.	D.D.B.
3	REVISED FOR MUNICIPAL COMMENTS	22/02/16	R.B.	D.D.B.
2	REVISED FOR MUNICIPAL COMMENTS	21/12/17	R.B.	D.D.B.
1	ISSUED FOR FOUNDATION PERMIT	21/05/20	R.B.	D.D.B.

REVISIONS

505 LAKE RD. BOWMANVILLE, ON.
CLEARWATER STRUCTURES INC.

ENLARGED SECOND FLOOR PLAN

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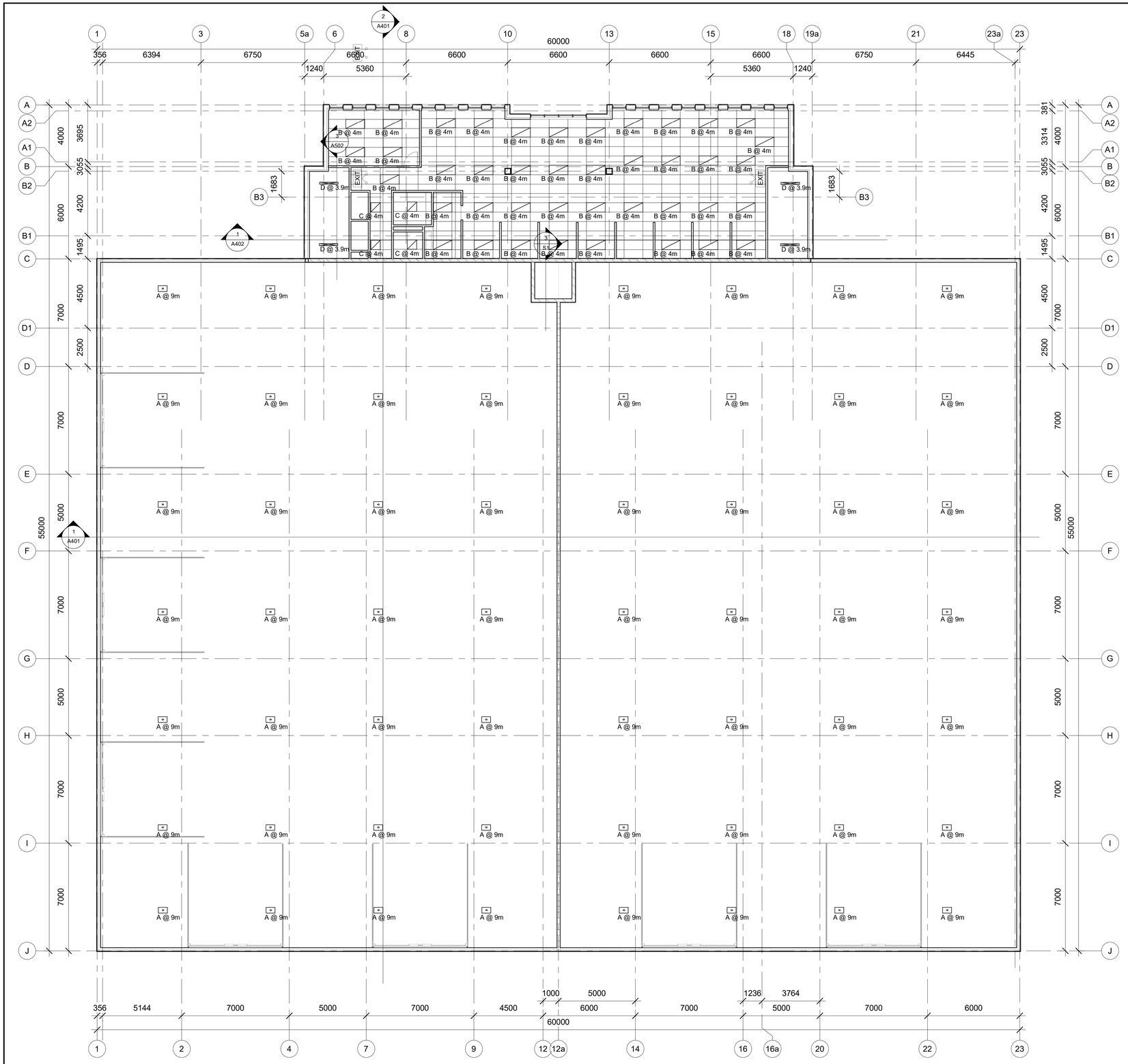
SCALE: AS SHOWN	PROJECT NO. 120004
DRAWN BY: R.D.B.	DRAWING NO. A206
DESIGN BY: D.D.B.	
CHECKED BY: D.D.B.	CAD FILE:
DATE: MAY 2020	PLOT DATE: 22/08/12
	SUBMISSION: PRICING



1 / A207 SECOND FLOOR
1 : 125

LIGHT FIXTURE SCHEDULE			
SYMBOL	LABEL	QTY	DESCRIPTION
0	A	56	IBG LED HIGH BAY, 24 INCH, 18,000 LUMENS, STANDARD EFFICIENCY, ACRYLIC CLEAR LENS, GENERAL DISTRIBUTION, 4000 K 80 CRI
	B	43	BLT 2X4, 4000 NOMINAL LUMENS, CURVED LINEAR PRISMATIC LENS, 4000K CCT
	C	5	BLT 2X2, 4000 NOMINAL LUMENS, CURVED LINEAR PRISMATIC LENS, 4000K CCT
	D	6	BLWP 4FT 4800 NOMINAL LUMENS, CURVED LINEAR PRISMATIC LENS, 4000K CCT, 80CRI
EXIT			BUILDING EXIT SIGN WITH LIGHTING

NO.	REVISIONS	DATE	BY	APPROVED
4	ISSUED FOR PRICING	22/08/12	R.B.	D.D.B.
3	REVISED FOR MUNICIPAL COMMENTS	22/02/16	R.B.	D.D.B.
2	REVISED FOR MUNICIPAL COMMENTS	21/12/17	R.B.	D.D.B.
1	ISSUED FOR FOUNDATION PERMIT	21/05/20	R.B.	D.D.B.

REVISIONS

505 LAKE RD. BOWMANVILLE, ON.
CLEARWATER STRUCTURES INC.

SECOND FLOOR REFLECTED CEILING PLAN

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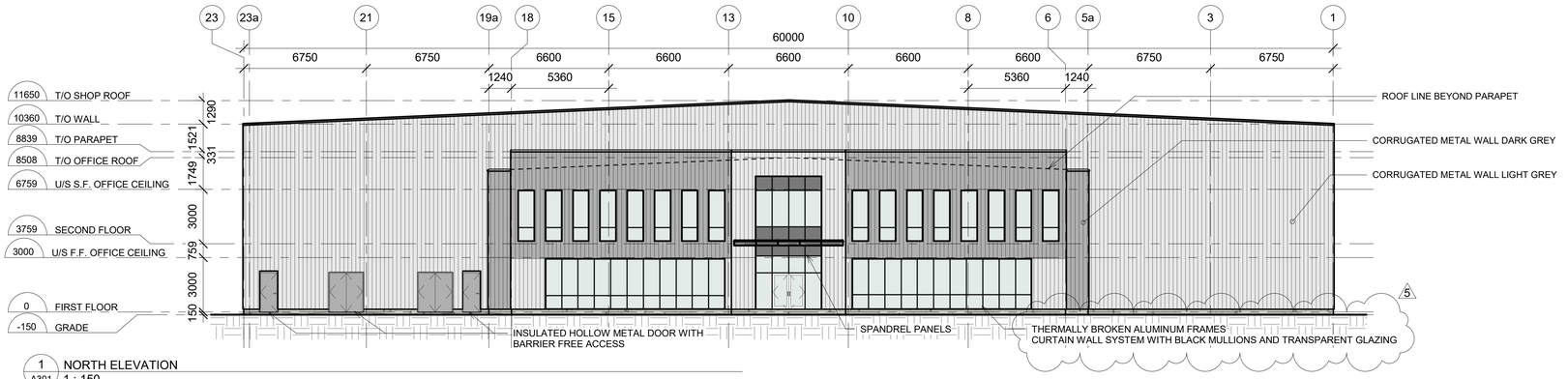
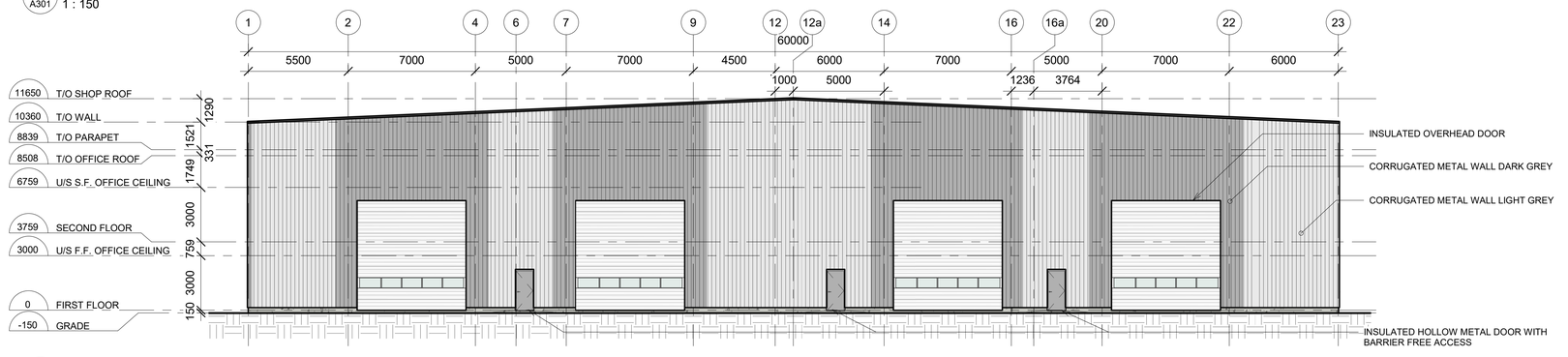
PHONE (905)576-8500 • FAX (905)576-9730
info@dgbiddle.com

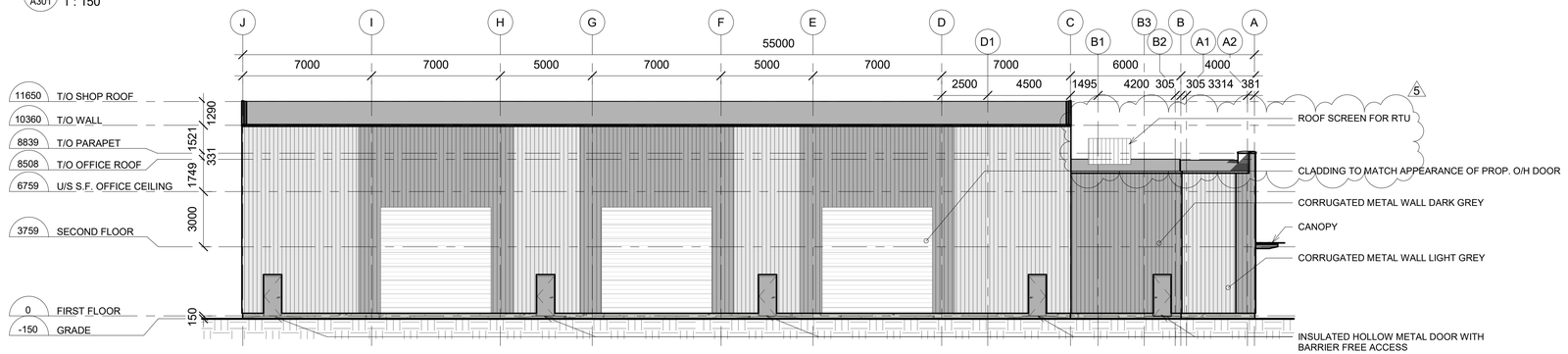
SCALE: AS SHOWN	PROJECT NO. 120004
DRAWN BY: R.D.B.	DRAWING NO. A207
DESIGN BY: D.D.B.	
CHECKED BY: D.D.B.	CAD FILE:
DATE: MAY 2020	PLOT DATE: 22/08/12
	SUBMISSION: PRICING



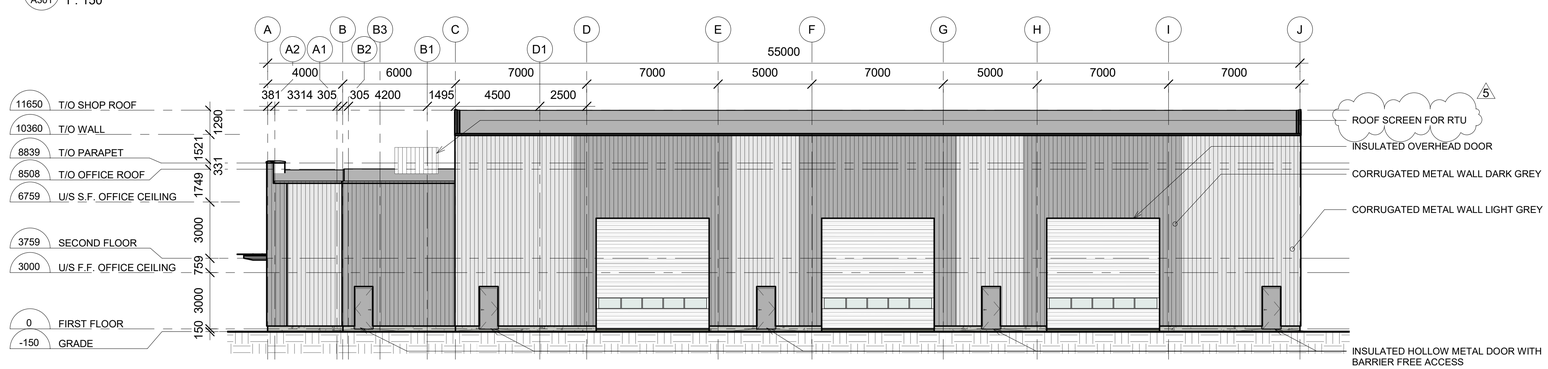
1 NORTH ELEVATION
A301 1 : 150



2 SOUTH ELEVATION
A301 1 : 150



3 EAST ELEVATION
A301 1 : 150



4 WEST ELEVATION
A301 1 : 150

NO.	REVISIONS	DATE	BY	APPROVED
5	REVISED GLAZING NOTE+RTU SCREENING	22/06/08	R.B.	D.D.B.
4	REVISED FOR PRICING	22/08/03	R.B.	D.D.B.
3	REVISED FOR MUNICIPAL COMMENTS	22/02/16	R.B.	D.D.B.
2	REVISED FOR MUNICIPAL COMMENTS	21/12/17	R.B.	D.D.B.
1	ISSUED FOR FOUNDATION PERMIT	21/05/20	R.B.	D.D.B.

REVISIONS

505 LAKE RD. BOWMANVILLE, ON.
CLEARWATER STRUCTURES INC.

BUILDING ELEVATIONS

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consulting engineers and planners
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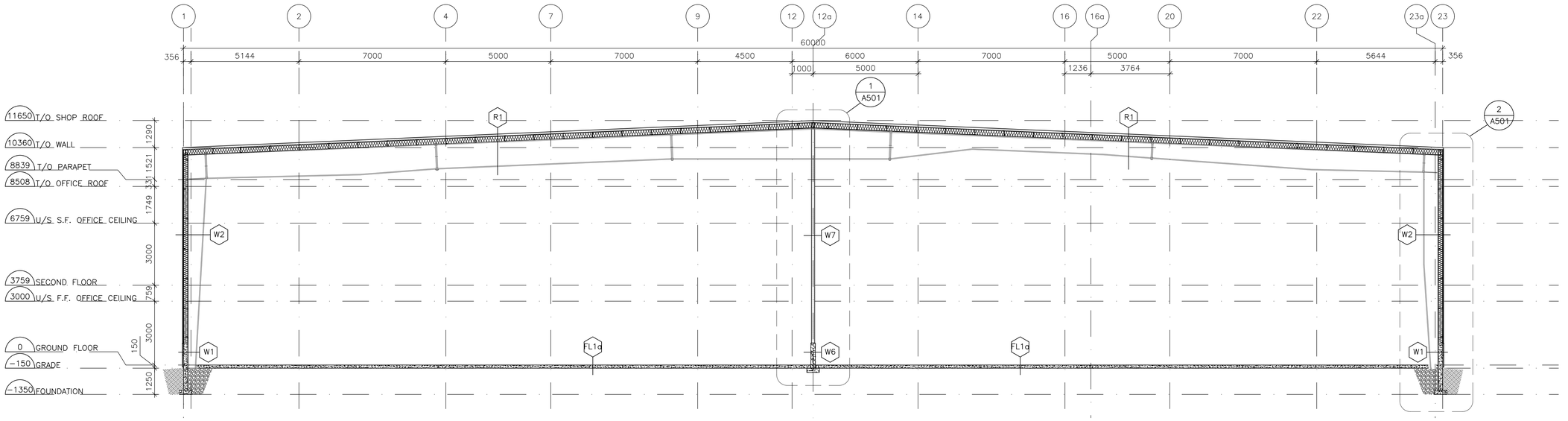
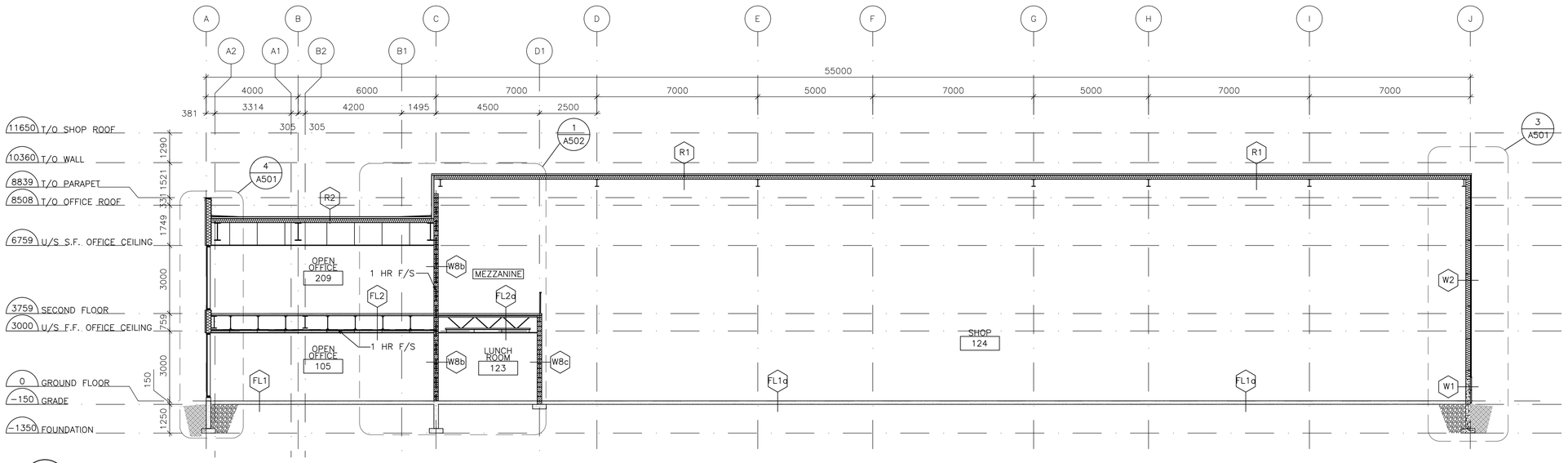
PHONE (905)576-8500 • FAX (905)576-9730
info@dgbiddle.com

SCALE: AS SHOWN	PROJECT NO. 120004
DRAWN BY: R.D.B.	DRAWING NO. A301
DESIGN BY: D.D.B.	
CHECKED BY: D.D.B.	CAD FILE:
DATE: MAY 2020	PLOT DATE: 22/08/12
	SUBMISSION: PRICING



1 / A401 BUILDING SECTION THRU SHOP
SCALE: 1:100



2 / A401 BUILDING SECTION THRU SHOP & OFFICE
SCALE: 1:100

NO.	REVISION	DATE	BY	APPROVED
4	ISSUED FOR PRICING	22/08/12	R.B.	D.D.B.
3	REVISED FOR MUNICIPAL COMMENTS	22/02/16	R.B.	D.D.B.
2	REVISED FOR MUNICIPAL COMMENTS	21/12/17	R.B.	D.D.B.
1	ISSUED FOR FOUNDATION PERMIT	21/05/20	R.B.	D.D.B.

REVISIONS

505 LAKE RD. BOWMANVILLE, ON.
CLEARWATER STRUCTURES INC.

BUILDING SECTIONS

D.G. Biddle & Associates Limited
consulting engineers and planners
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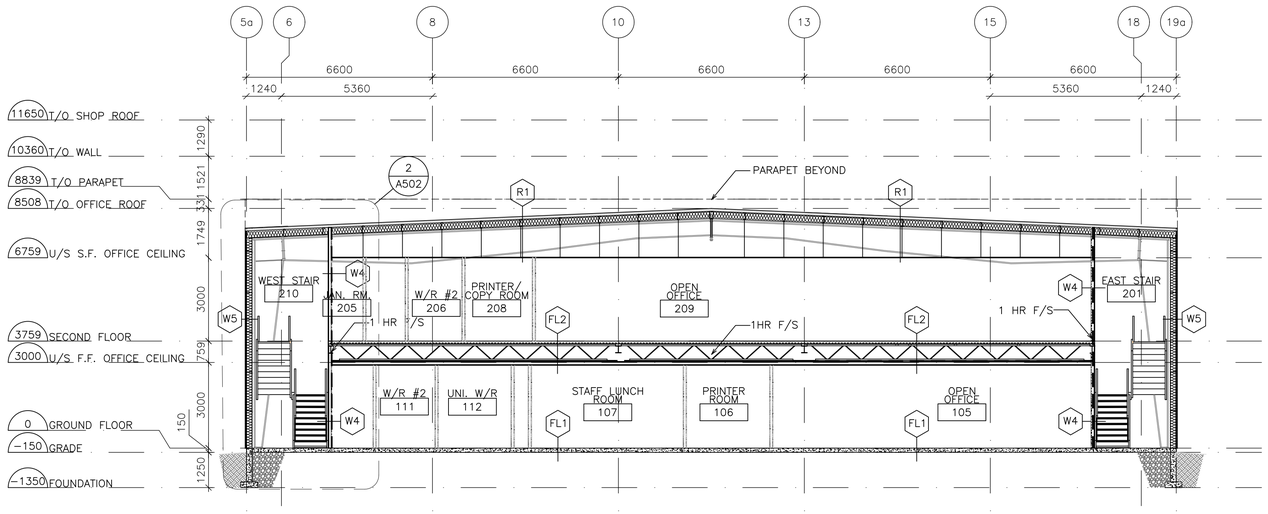
info@dgbiddle.com

SCALE:	AS SHOWN	PROJECT NO.	120004
DRAWN BY:	R.D.B.	DRAWING NO.	A401
DESIGN BY:	D.D.B.		
CHECKED BY:	D.D.B.	CAD FILE: --	
DATE:	MAY 2020	PLOT DATE:	22/08/12
		SUBMISSION:	PRICING



1 / A402 BUILDING SECTION THRU OFFICE
SCALE: 1:100

NO.	REVISION	DATE	BY	APPROVED
4	ISSUED FOR PRICING	22/08/12	R.B.	D.D.B.
3	REVISED FOR MUNICIPAL COMMENTS	22/02/16	R.B.	D.D.B.
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1	ISSUED FOR FOUNDATION PERMIT	21/05/20	R.B.	D.D.B.

REVISIONS

505 LAKE RD. BOWMANVILLE, ON.
CLEARWATER STRUCTURES INC.

BUILDING SECTIONS

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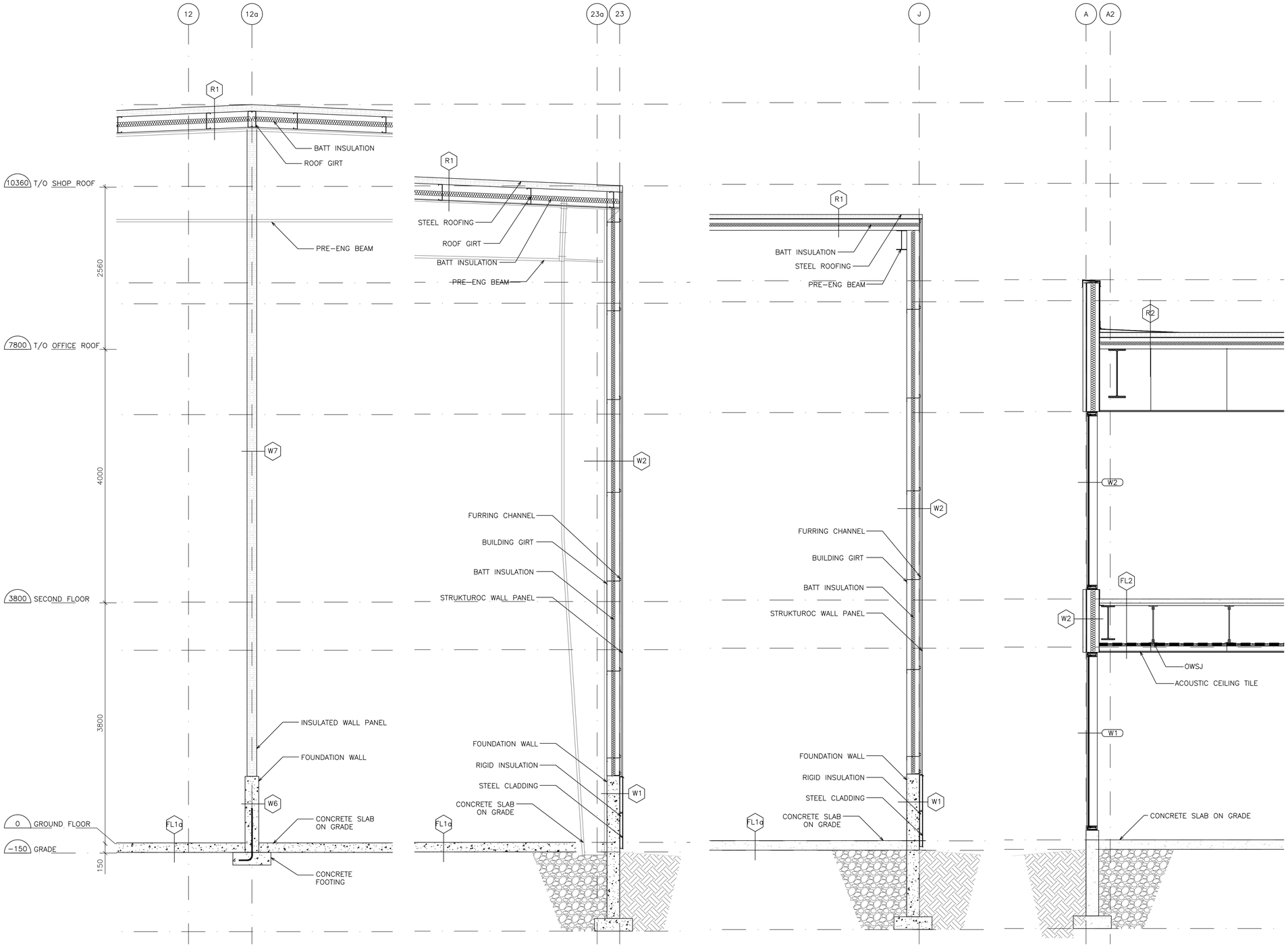
SCALE:	AS SHOWN	PROJECT NO. 120004
DRAWN BY:	R.D.B.	DRAWING NO. A402
DESIGN BY:	D.D.B.	
CHECKED BY:	D.D.B.	CAD FILE: --
DATE:	MAY 2020	PLOT DATE: 22/08/12 SUBMISSION: PRICING



1 / A501 WALL SECTION THRU SHOP
SCALE: 1:30

2 / A501 WALL SECTION AT GRID LINE '23'
SCALE: 1:30

3 / A501 WALL SECTION AT GRID LINE 'J'
SCALE: 1:30

4 / A501 WALL SECTION AT OFFICE STAIRS
SCALE: 1:30

NO.	REVISION	DATE	BY	APPROVED
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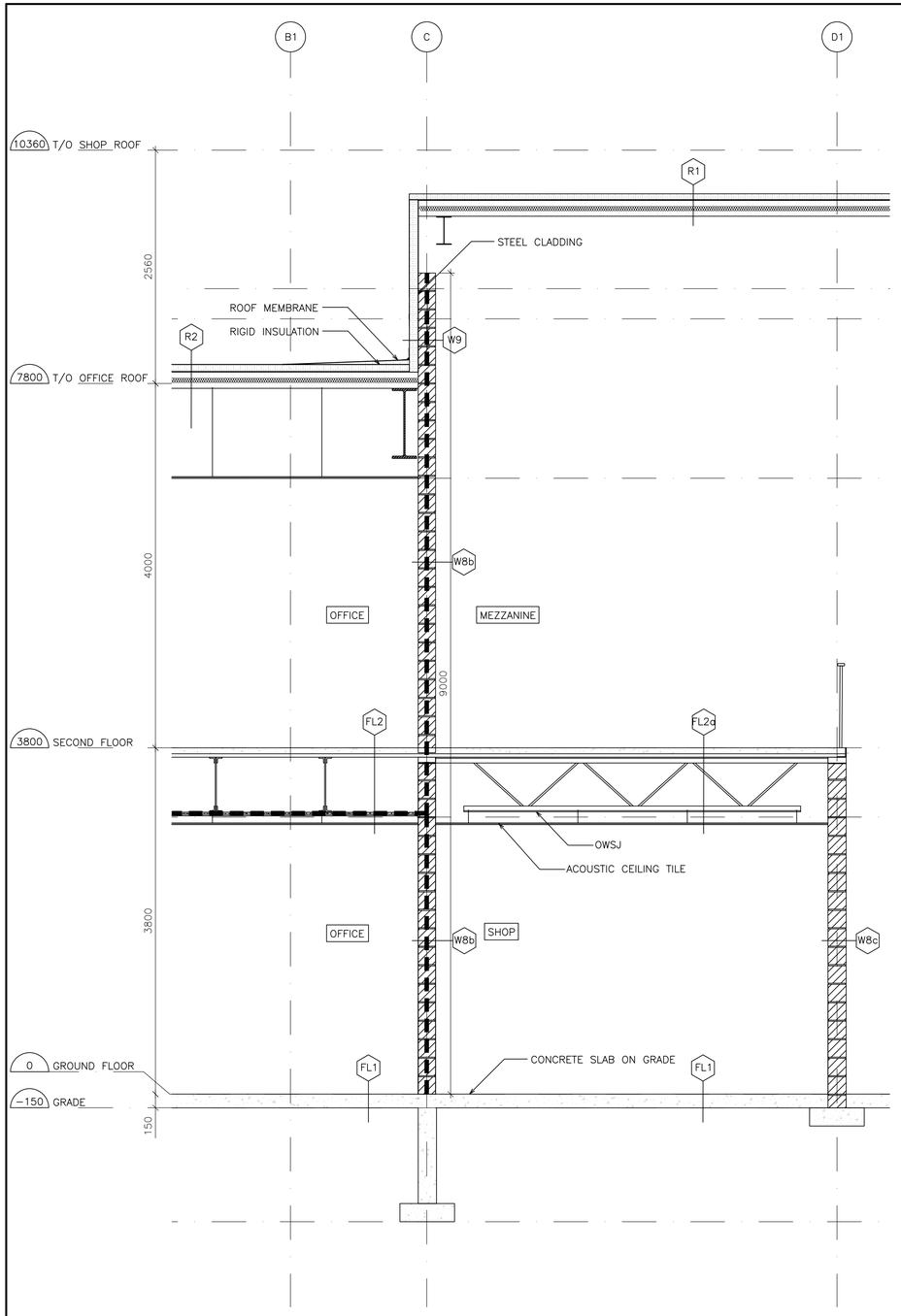
DESIGN BY:	D.D.B.
CHECKED BY:	D.D.B.
DATE:	MAY 2020

PROJECT NO. 120004
DRAWING NO. A501
CAD FILE: –
PLOT DATE: 22/08/12
SUBMISSION: PRICING



1 A502 WALL SECTION AT SHOP & OFFICE
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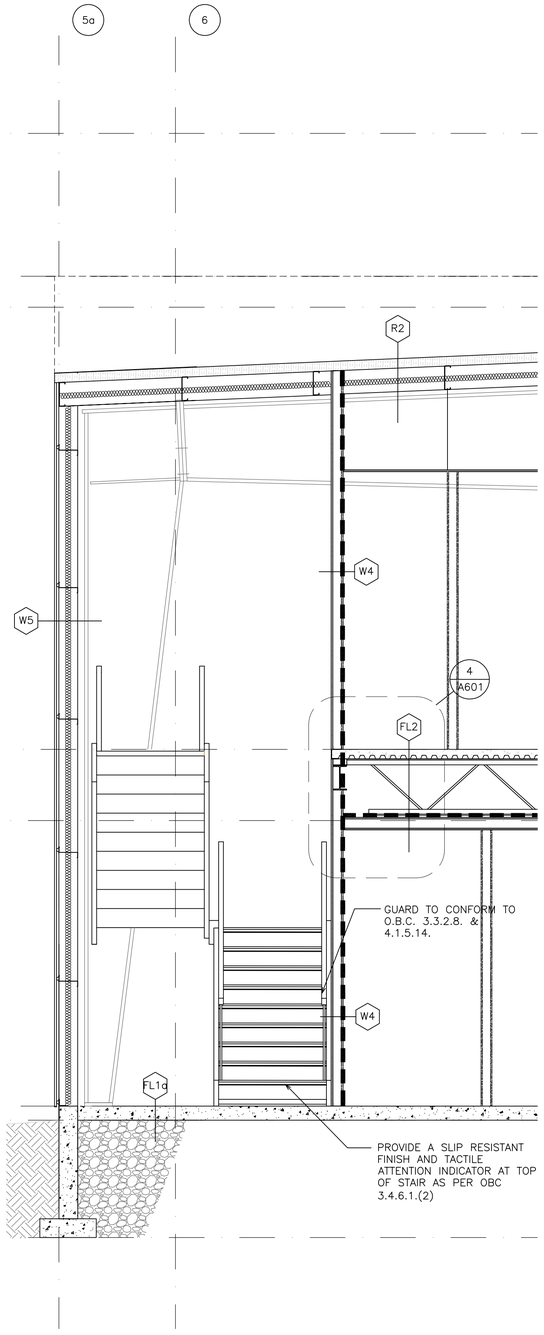

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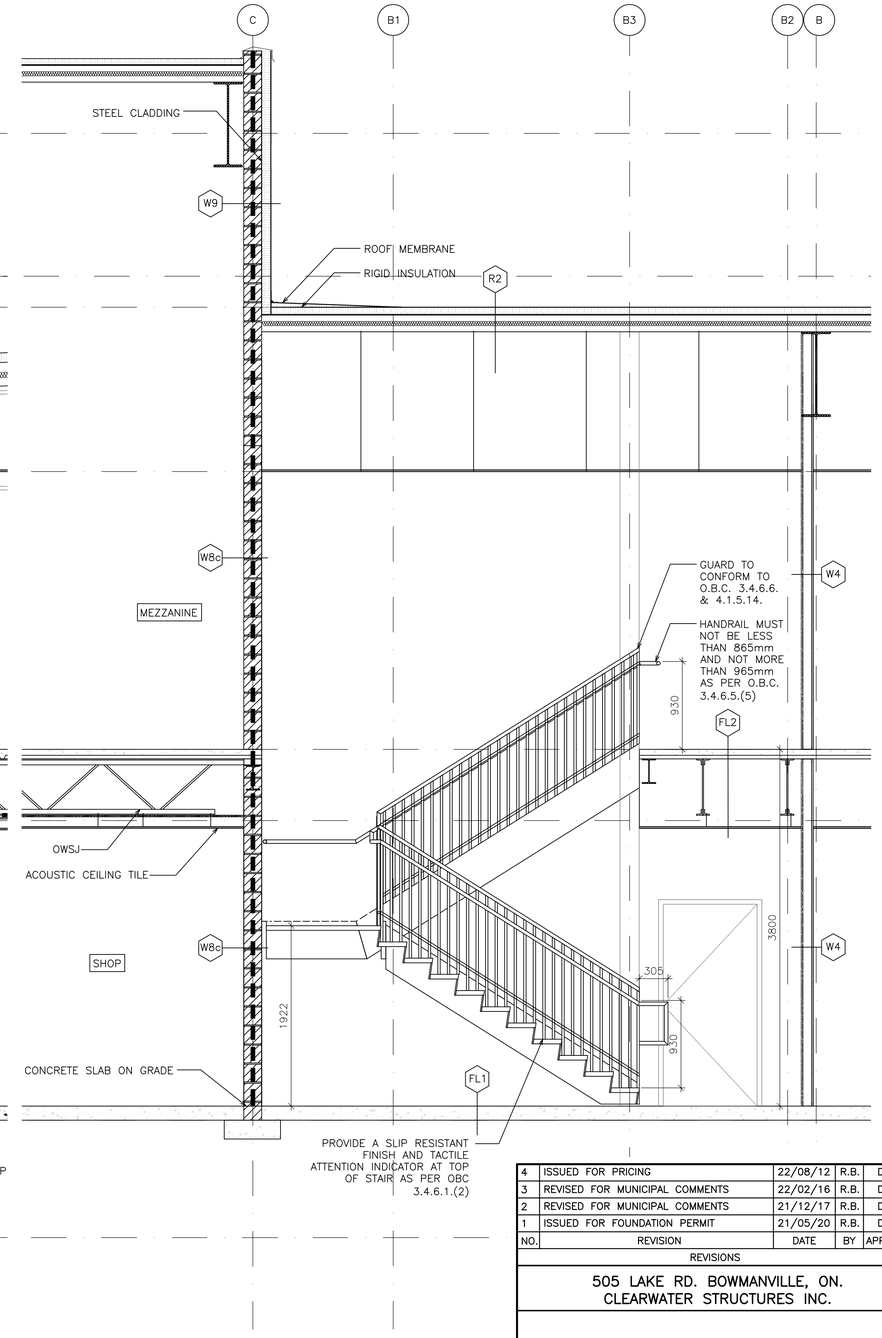

3 A502 STAIR SECTION AT OFFICE STAIRS
SCALE: 1:30

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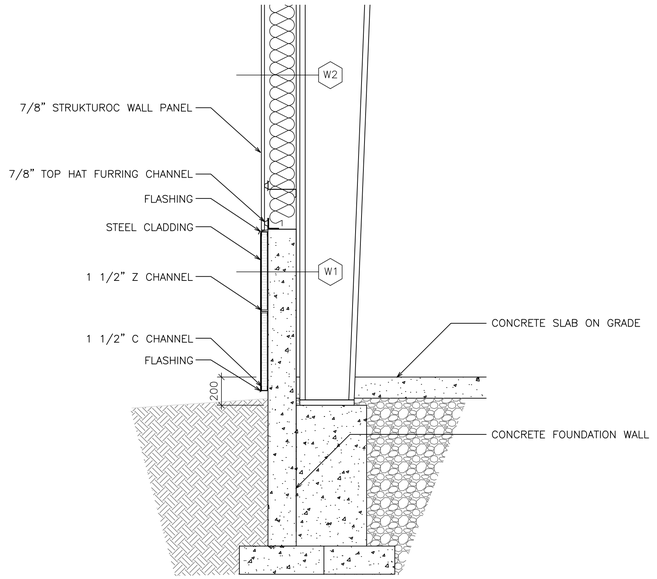
DESIGN BY:	D.D.B.	
CHECKED BY:	D.D.B.	CAD FILE: –
DATE:	MAY 2020	PLOT DATE: 22/08/12 SUBMISSION: PRICING



1 A601 EXTERIOR SHOP WALL DETAIL
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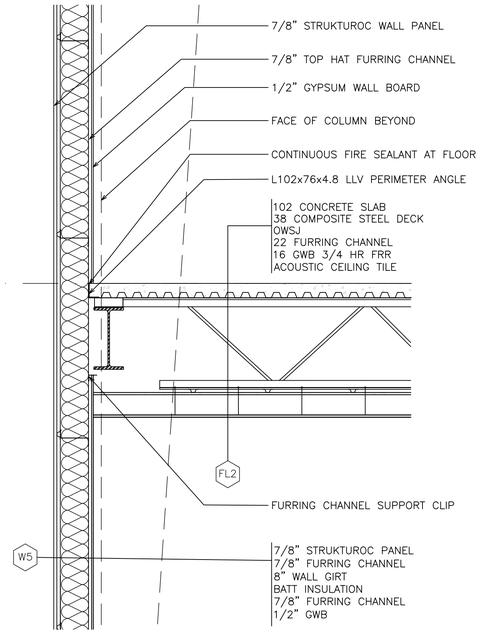

2 A601 OFFICE FLOOR DETAIL
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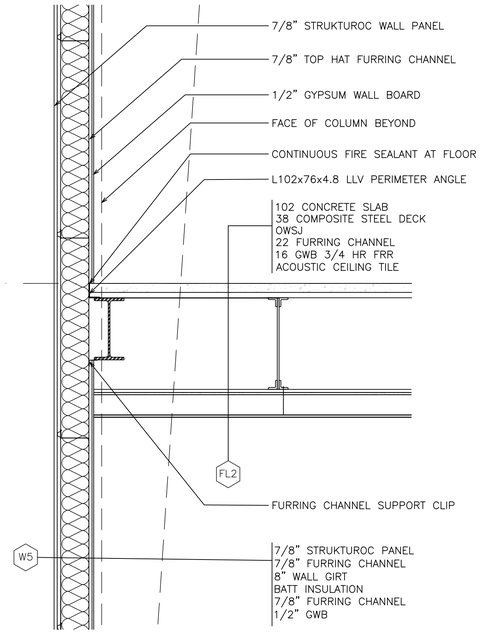

3 A601 OFFICE FLOOR DETAIL
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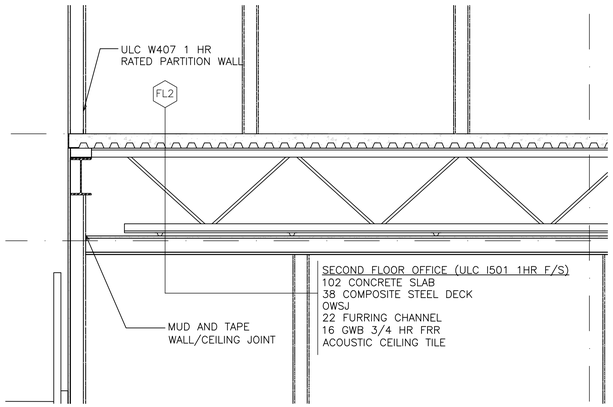

4 A601 STAIRWELL/OFFICE DETAIL
SCALE: 1:20

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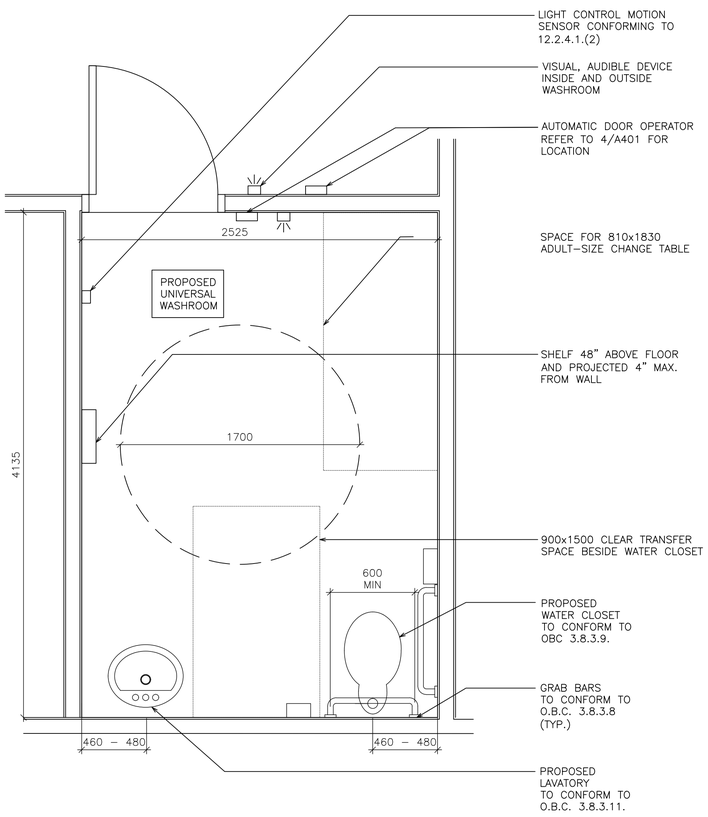
SCALE: AS SHOWN		PROJECT NO. 120004
DRAWN BY: R.D.B.		DRAWING NO. A601
DESIGN BY: D.D.B.		
CHECKED BY: D.D.B.		CAD FILE: --
DATE: MAY 2020		PLOT DATE: 22/08/12 SUBMISSION: PRICING



1 A602 UNIVERSAL WASHROOM DETAIL
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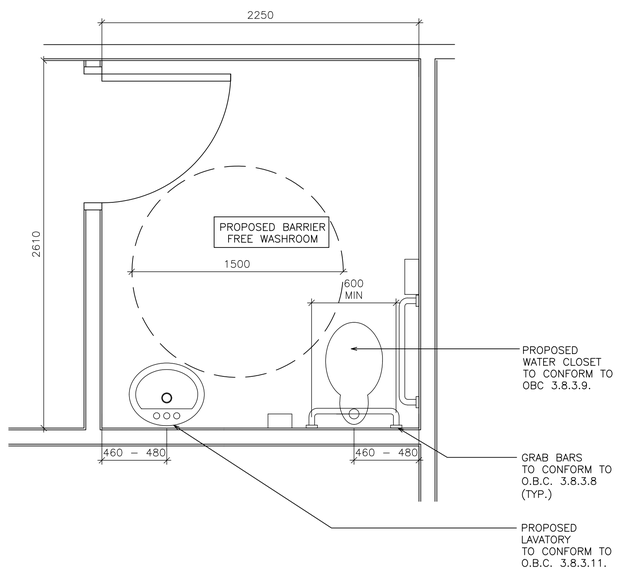

2 A602 BARRIER FREE WASHROOM DETAIL
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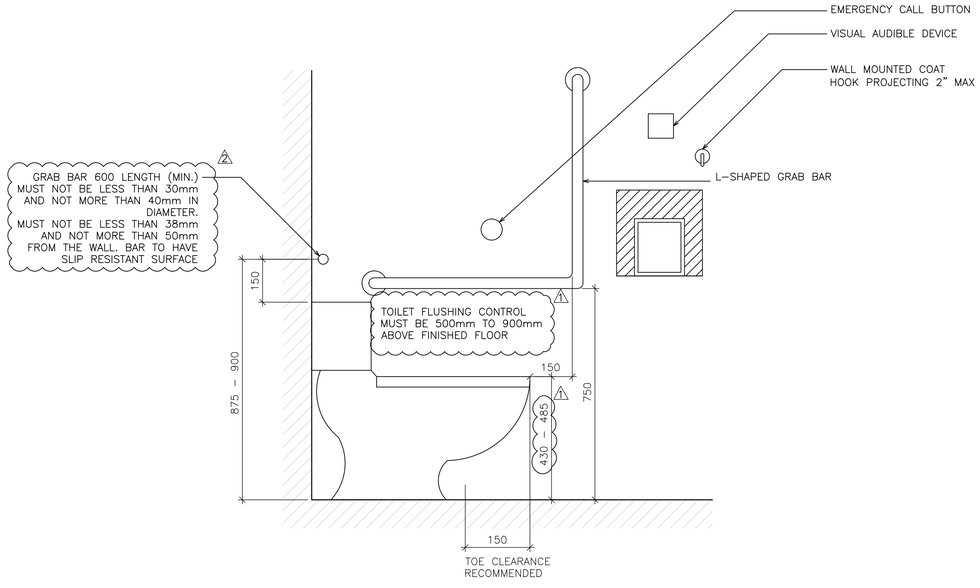

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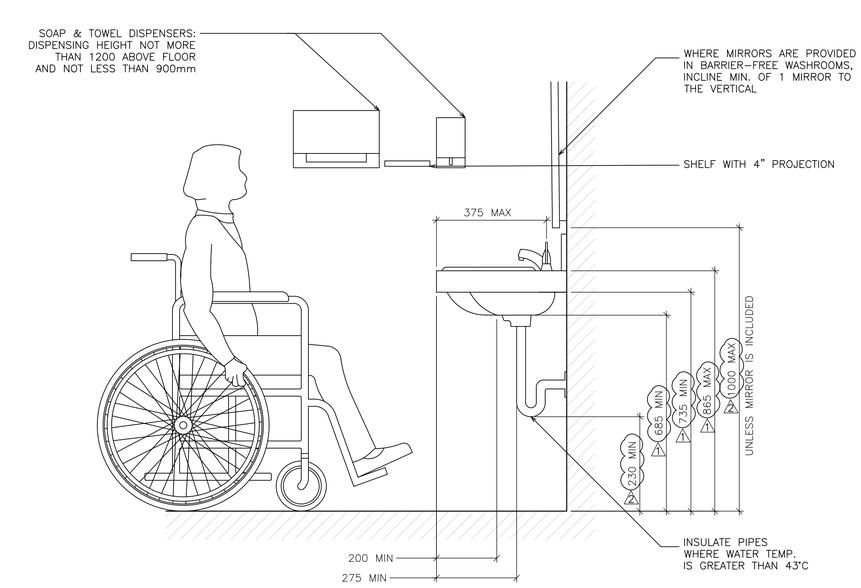

5 A602 UNIVERSAL WASHROOM DETAIL
SCALE: 1:10

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DESIGN BY:	D.D.B.
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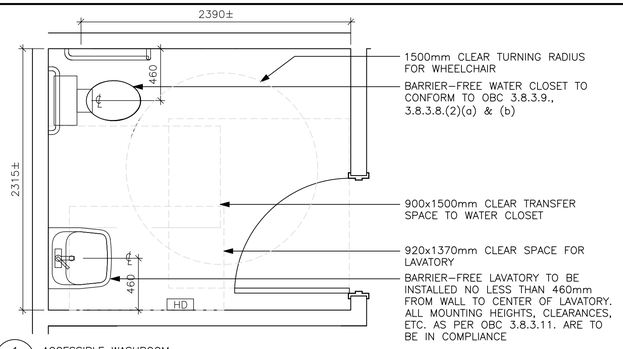
DATE:	MAY 2020

PROJECT NO. 120004
DRAWING NO. A602
CAD FILE: –
PLOT DATE: 22/08/12
SUBMISSION: PRICING



1 / A603 ACCESSIBLE WASHROOM
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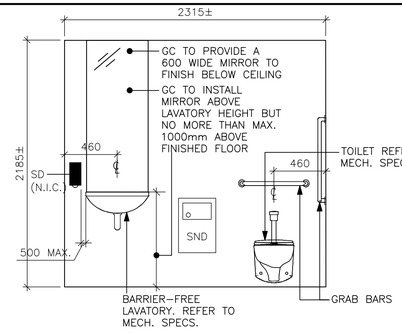
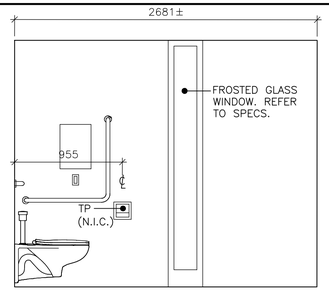
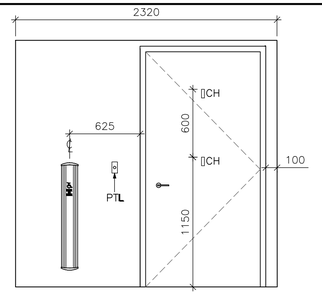
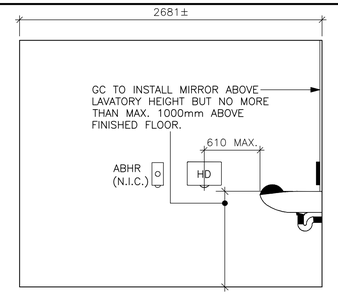
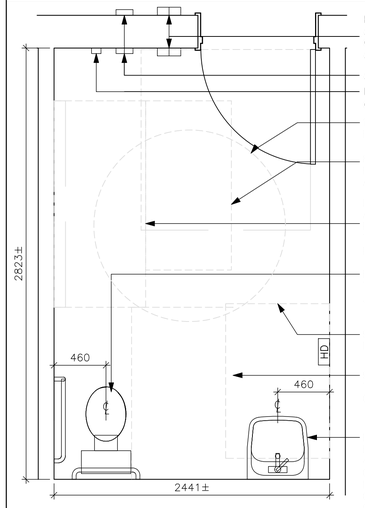


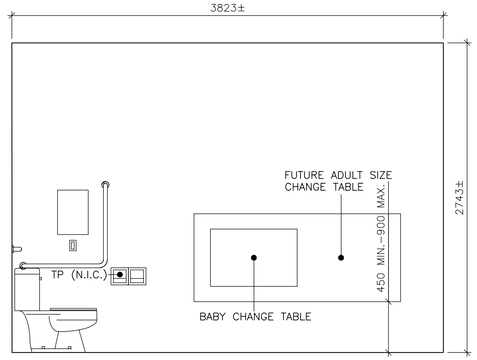


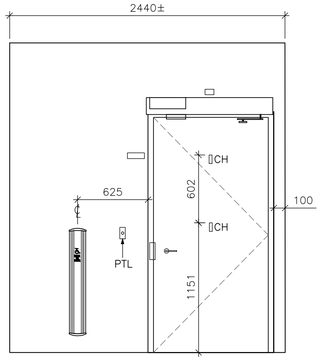


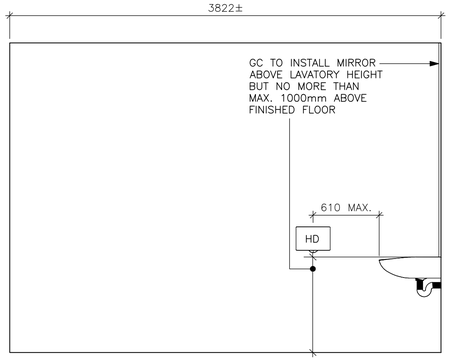


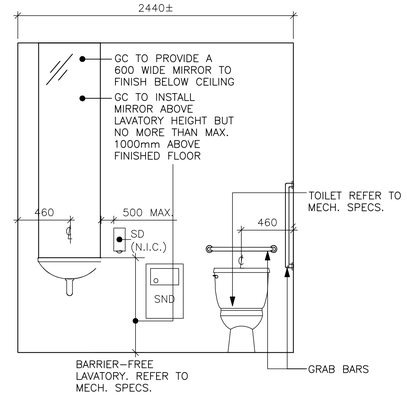


2 / A603 PUBLIC UNIVERSAL WASHROOM
SCALE: NTS





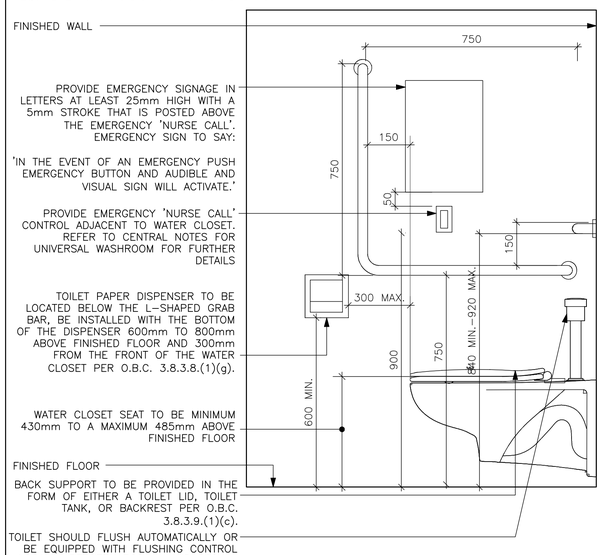




TWO GRAB BARS:

1. BE CONTINUOUS L–SHAPED WITH 750mm LONG HORIZONTALLY AND 750mm VERTICALLY, INSTALLED 750mm ABOVE FINISHED FLOOR AND 150mm IN FRONT OF WATER CLOSET PER O.B.C. 3.8.3.8.(5).
2. BE MIN. 600mm LONG AND INSTALLED HORIZONTALLY FROM 840mm TO 920mm ABOVE THE FINISHED FLOOR; WHERE THE WATER CLOSET HAS A WATER TANK, BE INSTALLED 150mm ABOVE THE TANK PER O.B.C. 3.8.3.8.(6).

**BOTH GRAB BARS ARE TO BE INSTALLED TO RESIST LOAD OF AT LEAST 1.3kN APPLIED VERTICALLY OR HORIZONTALLY, BE NOT LESS THAN 30mm AND NOT MORE THAN 40mm IN DIAMETER, HAVE A CLEARANCE OF 38mm TO 50mm FROM THE WALL, AND HAVE A SLIP–RESISTANT SURFACE. GRAB BARS TO BE SUPPLIED BY GRAB BARS CANADA OR EQUIVALENT SUPPLIER THAT MEET THE MINIMUM REQUIREMENTS OF O.B.C. 3.8 FOR GRAB BARS.



4 / A603 TYPICAL ELEVATION DETAIL OF BARRIER–FREE WATER CLOSET & ACCESSORIES
SCALE: NTS

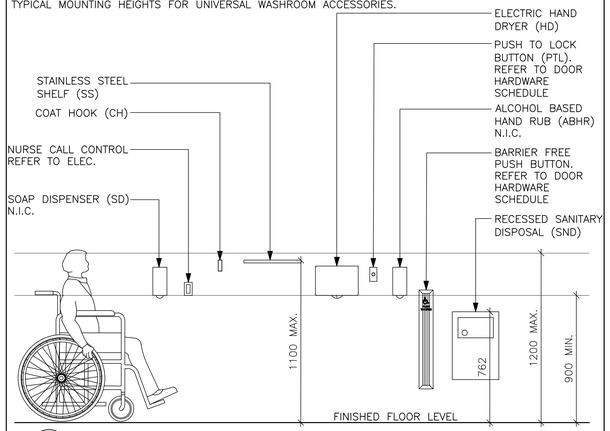
GENERAL UNIVERSAL WASHROOM NOTES
ALL WASHROOM ACCESSORIES TO BE INSTALLED AND ACCESSIBLE NOT LESS THAN 900mm AND NOT MORE THAN 1200mm ABOVE FINISHED FLOOR UNLESS OTHERWISE NOTED.

SOAP DISPENSERS TO BE INSTALLED SO THAT THE DISPENSING HEIGHT IS MAX. 1100mm ABOVE FINISHED FLOOR AND 500mm FROM THE FRONT OF THE LAVATORY PER O.B.C. 3.8.3.11.(1)(g).
TOWEL DISPENSER TO BE INSTALLED 900mm ABOVE FINISHED FLOOR AND NOT MORE THAN 610mm FROM THE EDGE OF LAVATORY.

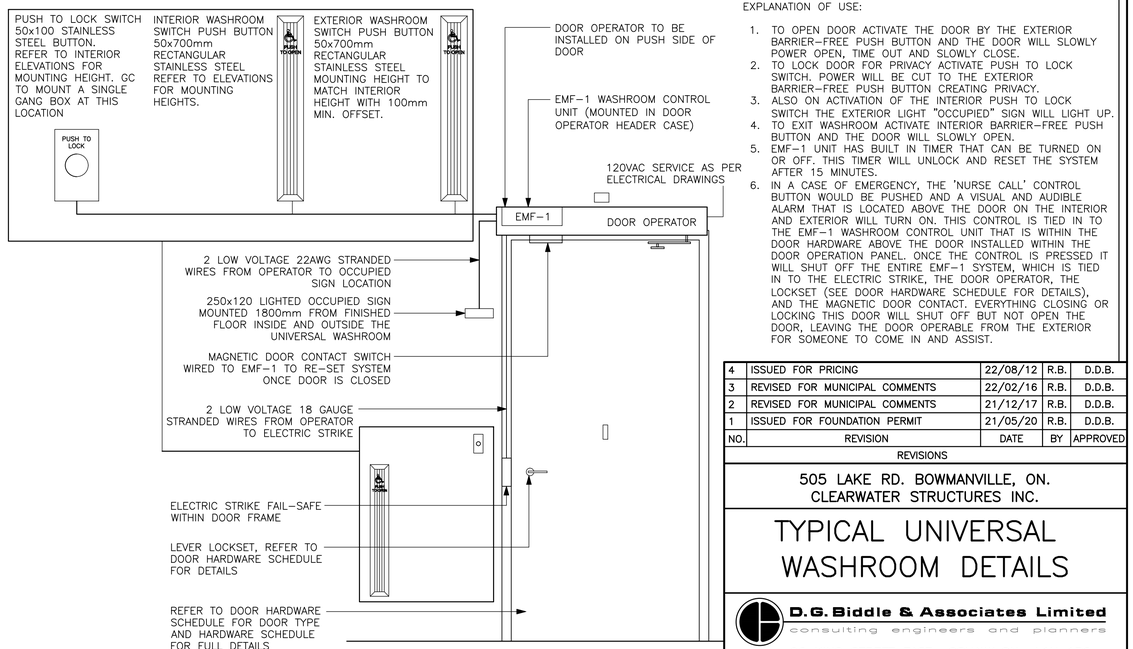
CONTROLS FOR THE OPERATION OF SAFETY DEVICES, INCLUDING BUT NOT LIMITED TO, EMERGENCY 'NURSE CALL' CONTROL SWITCH, BE OPERABLE USING CLOSED FIST, WITH A FORCE OF NOT MORE THAN 22.2N, AND BE MOUNTED NOT LESS THAN 900mm AND NOT MORE THAN 1200mm ABOVE FINISHED FLOOR.

MIN. 1370mm DEEP FLOOR SPACE TO BE PROVIDED IN FRONT OF CONTROLS OR OPERATING MECHANISMS TO ALLOW FOR FRONT APPROACH.

TYPICAL MOUNTING HEIGHTS FOR UNIVERSAL WASHROOM ACCESSORIES.



3 / A603 TYPICAL MOUNTING HEIGHTS FOR UNIVERSAL WASHROOM ACCESSORIES
SCALE: NTS



5 / A603 TYPICAL SCHEMATIC DIAGRAM OF A UNIVERSAL WASHROOM ACCESSIBLE DOOR AND DOOR HARDWARE
SCALE: NTS

EXPLANATION OF USE:

1. TO OPEN DOOR ACTIVATE THE DOOR BY THE EXTERIOR BARRIER–FREE PUSH BUTTON AND THE DOOR WILL SLOWLY POWER OPEN, TIME OUT AND SLOWLY CLOSE.
2. TO LOCK DOOR FOR PRIVACY ACTIVATE PUSH TO LOCK SWITCH. POWER WILL BE CUT TO THE EXTERIOR BARRIER–FREE PUSH BUTTON CREATING PRIVACY.
3. ALSO ON ACTIVATION OF THE INTERIOR PUSH TO LOCK SWITCH THE EXTERIOR LIGHT "OCCUPIED" SIGN WILL LIGHT UP.
4. TO EXIT WASHROOM ACTIVATE INTERIOR BARRIER–FREE PUSH BUTTON AND THE DOOR WILL SLOWLY OPEN.
5. EMF–1 UNIT HAS BUILT IN TIMER THAT CAN BE TURNED ON OR OFF. THIS TIMER WILL UNLOCK AND RESET THE SYSTEM AFTER 15 MINUTES.
6. IN A CASE OF EMERGENCY, THE 'NURSE CALL' CONTROL BUTTON WOULD BE PUSHED AND A VISUAL AND AUDIBLE ALARM THAT IS LOCATED ABOVE THE DOOR ON THE INTERIOR AND EXTERIOR WILL TURN ON. THIS CONTROL IS TIED IN TO THE EMF–1 WASHROOM CONTROL UNIT THAT IS WITHIN THE DOOR HARDWARE ABOVE THE DOOR INSTALLED WITHIN THE DOOR OPERATION PANEL. ONCE THE CONTROL IS PRESSED IT WILL SHUT OFF THE ENTIRE EMF–1 SYSTEM, WHICH IS TIED IN TO THE ELECTRIC STRIKE, THE DOOR OPERATOR, THE LOCKSET (SEE DOOR HARDWARE SCHEDULE FOR DETAILS), AND THE MAGNETIC DOOR CONTACT. EVERYTHING LOSING OR LOCKING THIS DOOR WILL SHUT OFF BUT NOT OPEN THE DOOR, LEAVING THE DOOR OPERABLE FROM THE EXTERIOR FOR SOMEONE TO COME IN AND ASSIST.

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TYPICAL UNIVERSAL WASHROOM DETAILS

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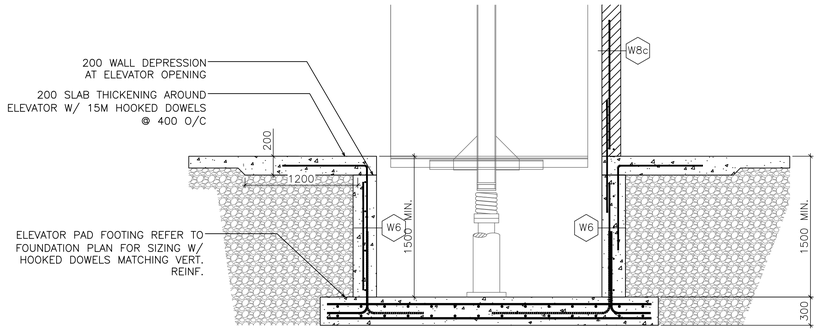
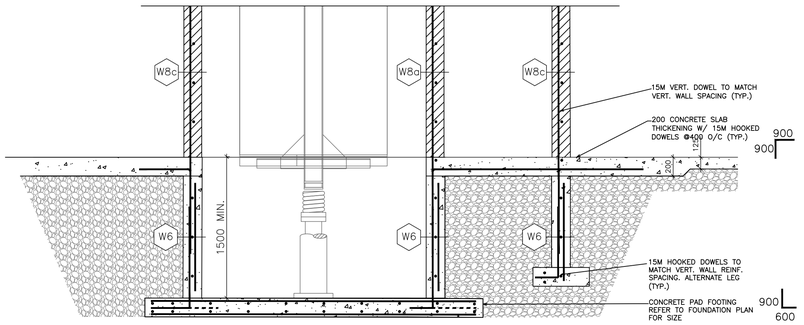
DRAWN BY:	R.D.B.	DRAWING NO.	A603
DESIGN BY:	D.D.B.	CAD FILE: –	
CHECKED BY:	D.D.B.	PLOT DATE:	22/08/12
DATE:	MAY 2020	SUBMISSION:	PRICING



1 / S1 ELEVATOR SHAFT FOOTING DETAIL
SCALE: 1:30



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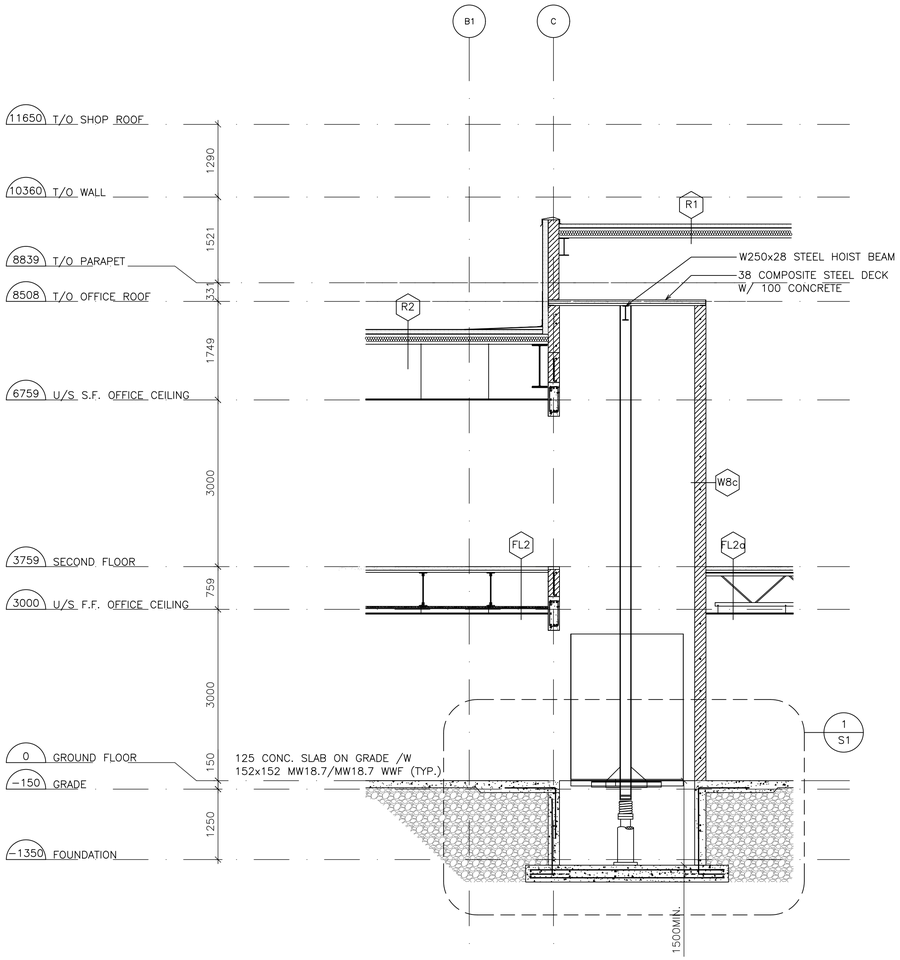

3 / S1 ELEVATOR SHAFT SECTION
SCALE: 1:30

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SCALE:	AS SHOWN	PROJECT NO. 120004
DRAWN BY:	R.D.B.	DRAWING NO. S1
DESIGN BY:	D.D.B.	
CHECKED BY:	D.D.B.	CAD FILE: -- PLOT DATE: 22/08/12 SUBMISSION: PRICING
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