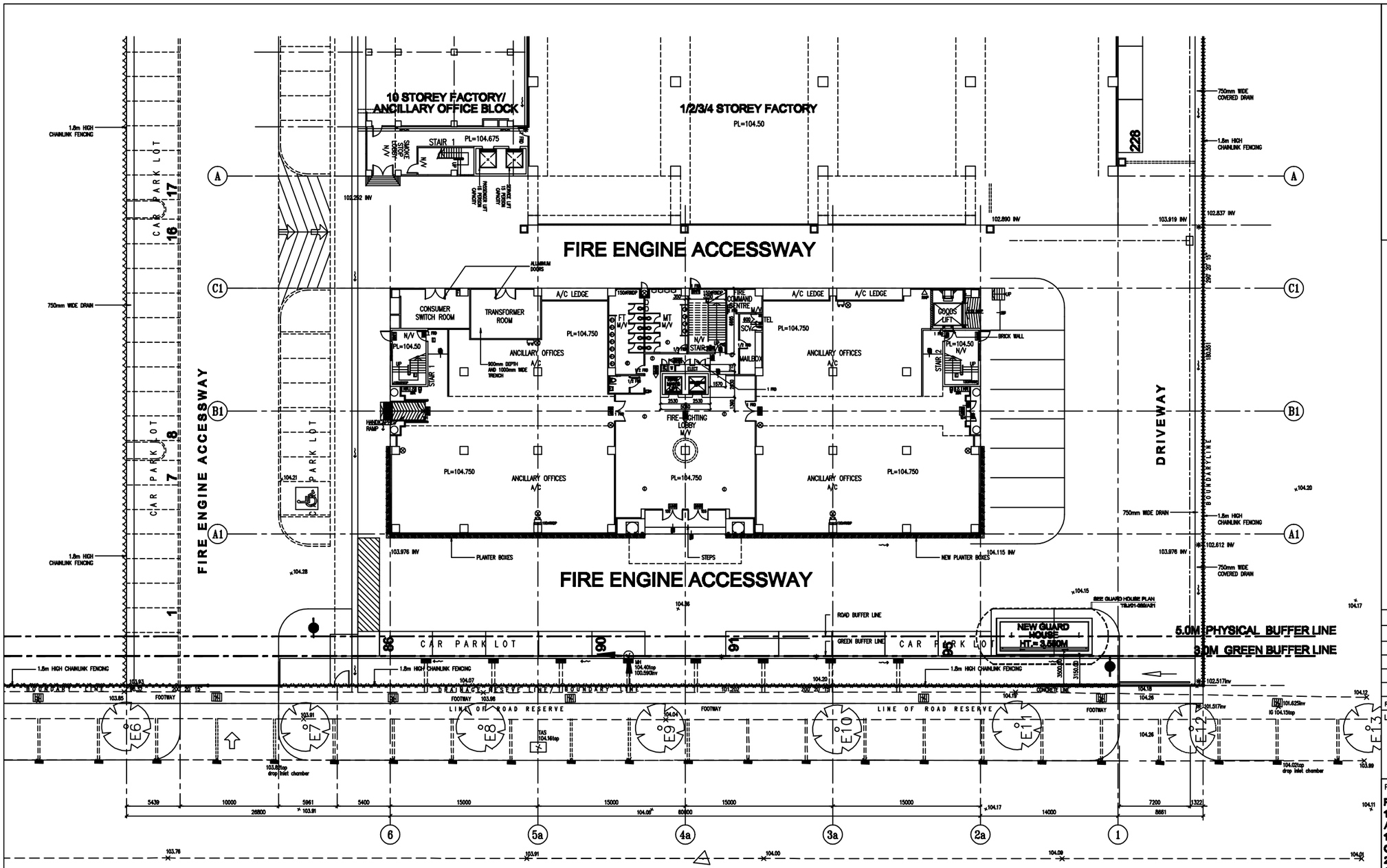


EHD REQUIREMENT

SAFE AND PERMANENT ACCESS ARE PROPERLY PROVIDED AND THE COMPLIANCE WITH SS 525.

LEGEND

= EXIT DOOR
= HOSE REEL
= EMERGENCY CALL BELL
= EMERGENCY CALL POINT
= EMERGENCY EXIT SIGN
= EMERGENCY EXIT SIGN WITH ARROW
= CEILING MOUNTED EMERGENCY LIGHT
= FIRE EXTINGUISHER
= CEILING MOUNTED EMERGENCY LIGHT
1 FRD = 1 HOUR FIRE RATED DOOR
= WALL MOUNTED EMERGENCY LIGHT
= FIRE ALARM PANEL
1/2 FRD = 1/2 HOUR FIRE RATED DOOR

NOTES:

THE OCCUPANCY LOAD FOR THIS FLOOR IS = 168 PERSONS

THE NUMBER OF PERSONS PROVIDED WITH MEANS OF ESCAPE = 1,288 PERSONS

THIS FLOOR IS PROTECTED WITH AUTOMATIC SPRINKLER SYSTEM, MANUAL CALL POINT, AUTOMATIC FIRE ALARM BELL, FIRE EXTINGUISHERS, HOSEREEL & DRYRISER.

1ST STOREY PLAN

1 : 200 (13-STOREY ANCILLARY OFFICE)

0 4 8 12 16 20 METRES

SCALE = 1 : 200

"I, _____, hereby certify, subject to any waiver/modification granted under Section 6A of the Building Control Act (Cap 29), that–

a) the preparation of these building plans are in accordance with the Building Control Regulations; and

b) the buildings / building works shown on these plans are in accordance with the provisions of the Building Control Regulations and the acceptable solutions in the Approved Document.

_____ Jan 2011

B.Arch.(S'pore) M.S.I.A. Date

"I, _____, NRIC No. _____, being a qualified person, hereby certify that the building works and fire safety works as shown on these plans have been designed in accordance with the provisions of the Code of Practice for Fire Precautions in Buildings 2007, including all amendments applicable up to the date of this submission, the Fire Safety Act and its Regulations, the relevant code of practice or designed guidelines, subject to waivers granted under Section 27 of the Act.

_____ Jan 2011

B.Arch.(S'pore) M.S.I.A. Date

02 sheet of 40

Project Ref No : A903-00002-2003-BP01

TENURE OF LAND:

GOVERNMENT LAND SALES (URA/HDB)

Rev.	Date	Amendment	By
6	MAR 2007	ADD'L RAMP/ NEW LAYOUT OF TOILETS	
5	JULY 2006	ADDITIONAL GOODS LIFT	
4	JUN 2006	SCV, TEL SERVICES	
3	MAR 2006	TRENCH ADDED	
2	FEB 2006	LIFT ANNOTATION	
1	AUG 2005	ENTRANCE CULVERT UPDATED	

Lessee's Signature & Address

SYSLAND PTE. LTD.
NO. 30 TUAS BAY DRIVE
SINGAPORE 637548

Project

PROPOSED ERECTION OF 1/2/3/4-STOREY FACTORY, 13-STOREY ANCILLARY OFFICE BLOCK AND 10-STOREY FACTORY/ANCILLARY OFFICE BLOCK ON LOT 03338L (OLD LOT 2990A-PT) MK07 AT TUAS BAY DRIVE (TUAS PLANNING AREA)

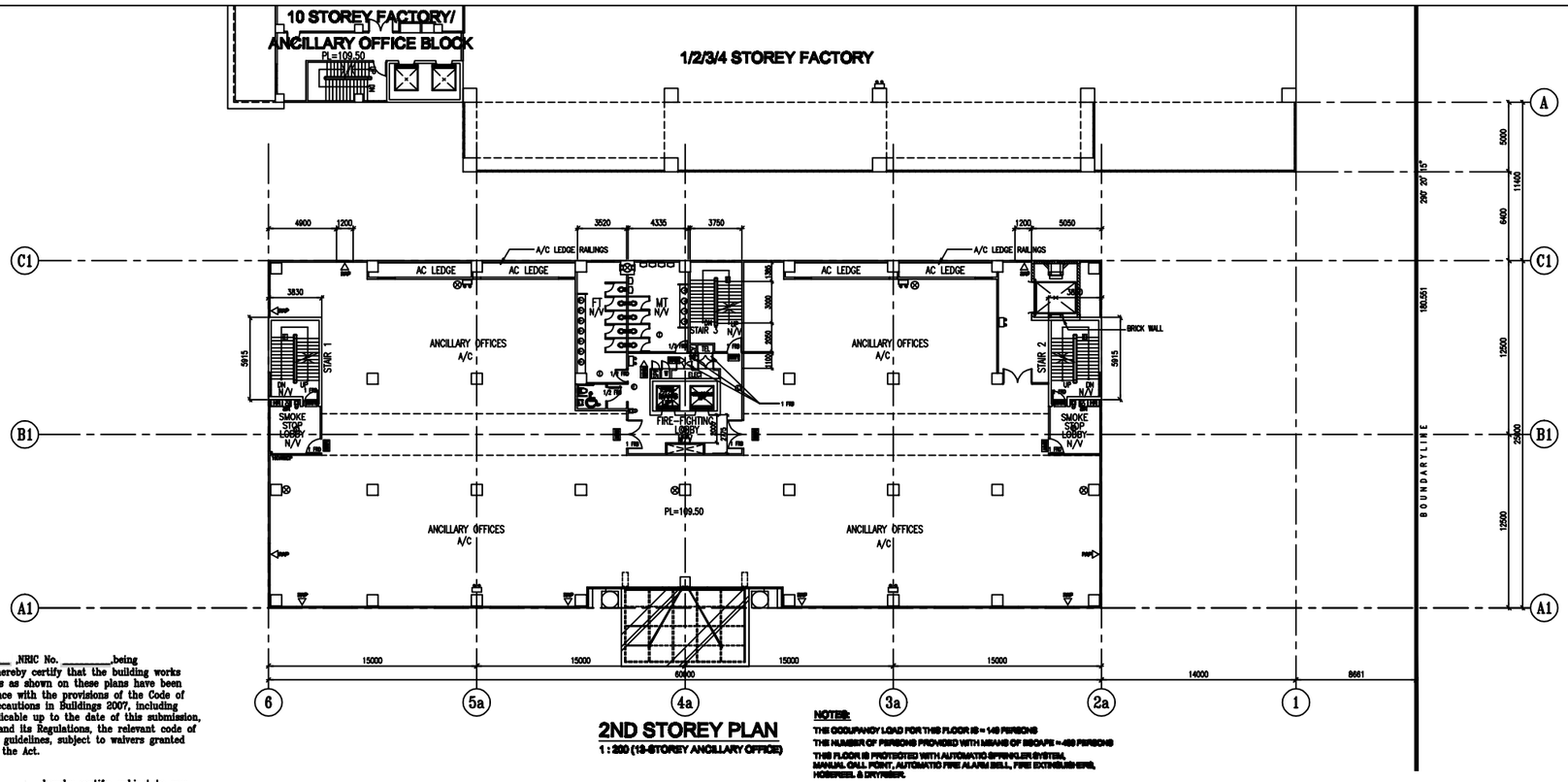
Drawing Description

(13-STOREY ANCILLARY OFFICE)
1ST STOREY PLAN

Date: DECEMBER 2010 | Scale: 1 : 200

Drawn: TL | Designed: BP | Checked:

Drawing No: TSJ/01-039/A02 | Rev. No: 5



2ND STOREY PLAN

1 : 200 (13-STOREY ANCILLARY OFFICE)

NOTES:

THE OCCUPANCY LOAD FOR THIS FLOOR IS = 149 PERSONS

THE NUMBER OF PERSONS PROVIDED WITH MEANS OF ESCAPE = 469 PERSONS

THIS FLOOR IS PROTECTED WITH AUTOMATIC SPRINKLER SYSTEM, MANUAL CALL POINT, AUTOMATIC FIRE ALARM BELL, FIRE EXTINGUISHERS, HOSEREEL & DRYRISER.

"I, _____ ,NRIC No. _____,being a qualified person, hereby certify that the building works and fire safety works as shown on these plans have been designed in accordance with the provisions of the Code of Practice for Fire Precautions in Buildings 2007, including all amendments applicable up to the date of this submission, the Fire Safety Act and its Regulations, the relevant code of practice or designed guidelines, subject to waivers granted under Section 27 of the Act.

"I, _____, hereby certify, subject to any waiver/modification granted under Section 6A of the Building Control Act (Cap 29), that–

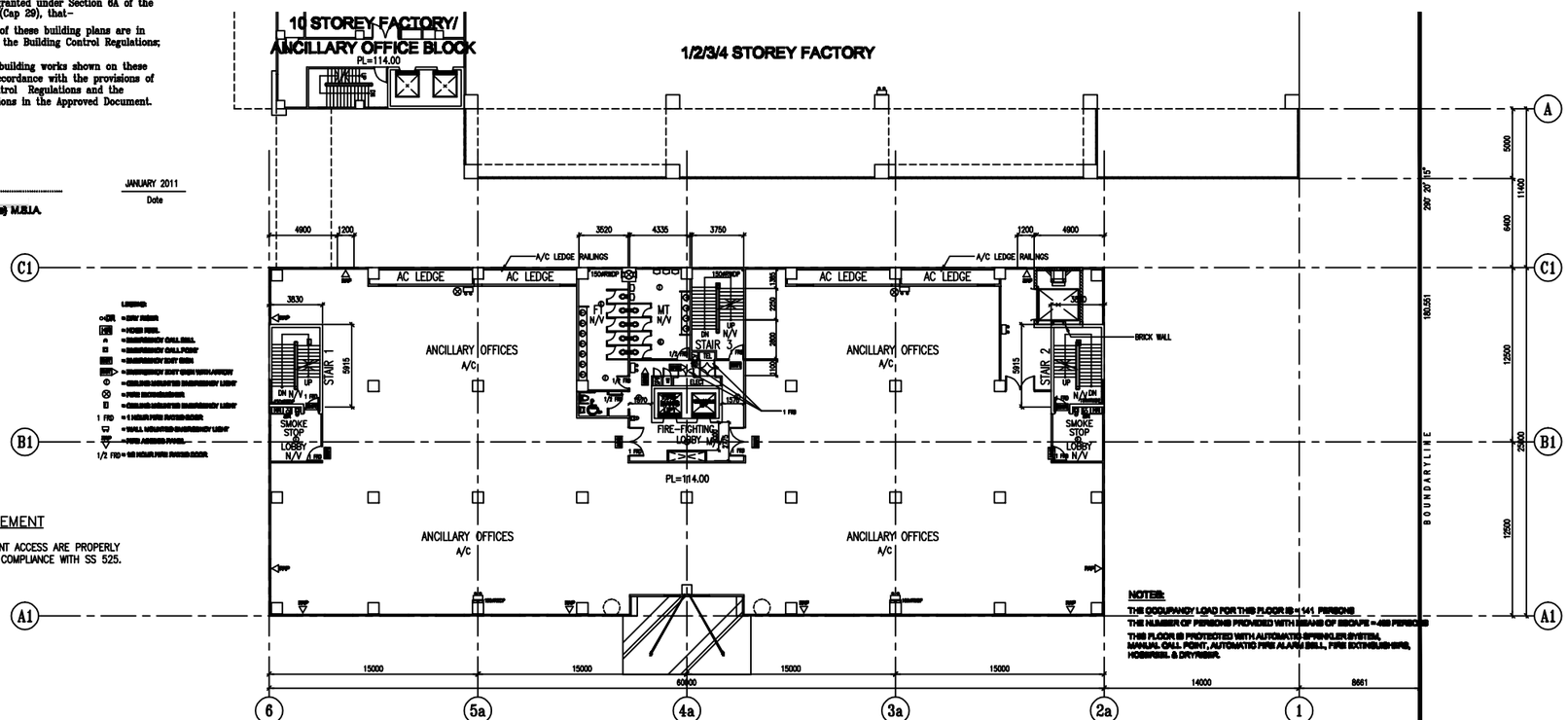
a) the preparation of these building plans are in accordance with the Building Control Regulations; and

b) the buildings / building works shown on these plans are in accordance with the provisions of the Building Control Regulations and the acceptable solutions in the Approved Document.

JANUARY 2011

Date

B.Arch.(S'pore) M.S.I.A.



3RD STOREY PLAN

1 : 200 (13-STOREY ANCILLARY OFFICE)

NOTES:

THE OCCUPANCY LOAD FOR THIS FLOOR IS = 141 PERSONS

THE NUMBER OF PERSONS PROVIDED WITH MEANS OF ESCAPE = 469 PERSONS

THIS FLOOR IS PROTECTED WITH AUTOMATIC SPRINKLER SYSTEM, MANUAL CALL POINT, AUTOMATIC FIRE ALARM BELL, FIRE EXTINGUISHERS, HOSEREEL & DRYRISER.

LEGEND

DR = DRY RISER
HR = HOSE REEL
= EMERGENCY CALL BELL
= EMERGENCY CALL POINT
= EMERGENCY EXIT SIGN
= EMERGENCY EXIT SIGN WITH ARROW
= CEILING MOUNTED EMERGENCY LIGHT
= FIRE EXTINGUISHER
= CEILING MOUNTED EMERGENCY LIGHT
1 FRD = 1 HOUR FIRE RATED DOOR
= WALL MOUNTED EMERGENCY LIGHT
= FIRE ALARM PANEL
1/2 FRD = 1/2 HOUR FIRE RATED DOOR

EHD REQUIREMENT

SAFE AND PERMANENT ACCESS ARE PROPERLY PROVIDED AND THE COMPLIANCE WITH SS 525.

03 sheet of 40

Project Ref No : A903-00002-2003-BP01

TENURE OF LAND:

GOVERNMENT LAND SALES (URA/HDB)

Rev.	Date	Amendment	By
2	JULY 2006	ADDITIONAL GOODS LIFT	
1	JUN 2006	SCV, TEL SERVICES	

Lessee's Signature & Address

SYSLAND PTE. LTD.
NO. 30 TUAS BAY DRIVE
SINGAPORE 637548

Project

PROPOSED ERECTION OF 1/2/3/4-STOREY FACTORY, 13-STOREY ANCILLARY OFFICE BLOCK AND 10-STOREY FACTORY/ANCILLARY OFFICE BLOCK ON LOT 03338L (OLD LOT 2990A-PT) MK07 AT TUAS BAY DRIVE (TUAS PLANNING AREA)

Drawing Description

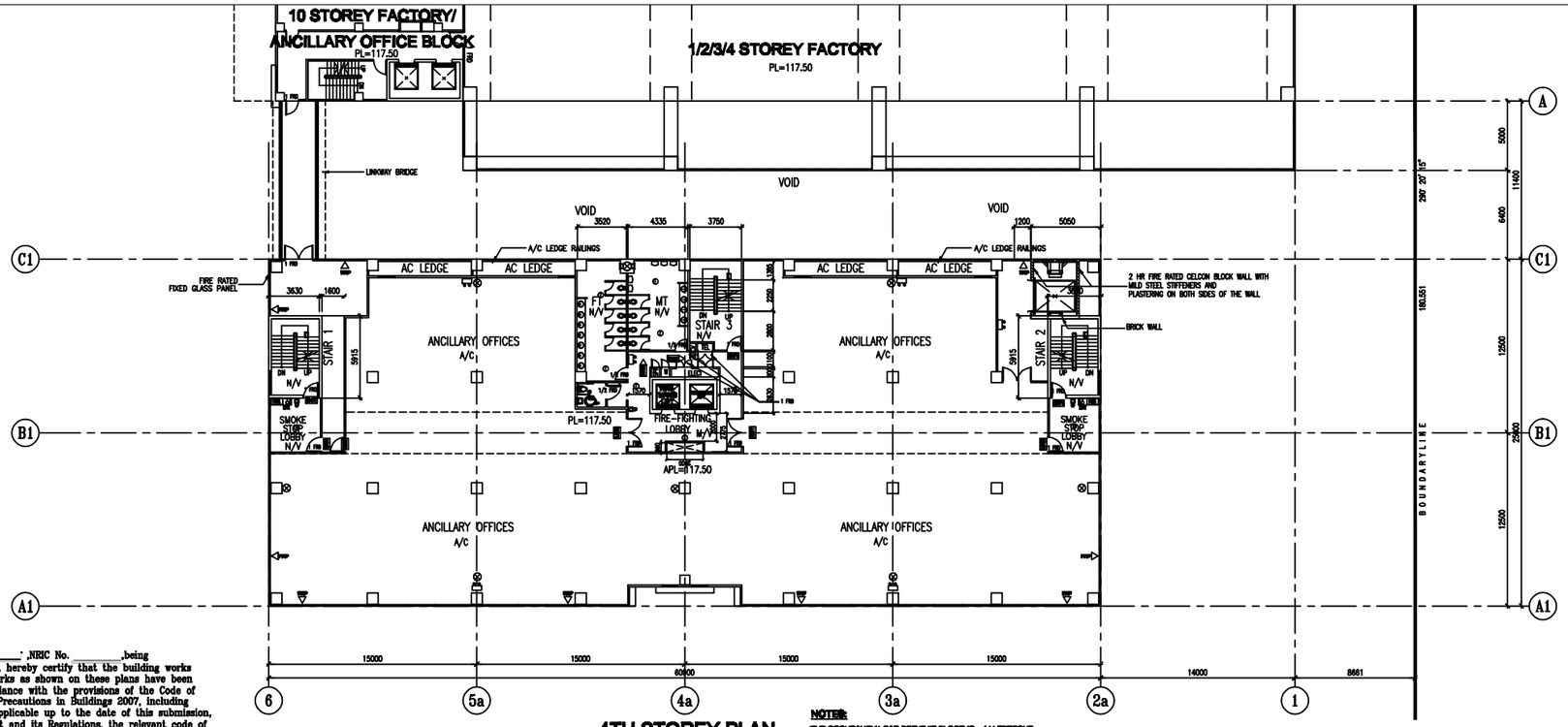
(13-STOREY ANCILLARY OFFICE)
2ND STOREY PLAN
3RD STOREY PLAN

Date: JANUARY 2011	Scale: 1 : 200	
Drawn: TL	Designed: BP	Checked:

Drawing No: TSJ/01-039/A03 | Rev. No: 1

0 4 8 12 16 20 METRES

SCALE = 1 : 200



4TH STOREY PLAN

1 : 200 (13-STOREY ANCILLARY OFFICE)

NOTES:

THE OCCUPANCY LOAD FOR THIS FLOOR IS = 144 PERSONS

THE NUMBER OF PERSONS PROVIDED WITH 1 MEANS OF ESCAPE = 450 PERSONS

THIS FLOOR IS PROTECTED WITH AUTOMATIC SPRINKLER SYSTEM, MANUAL CALL POINT, AUTOMATIC FIRE ALARM BELL, FIRE EXTINGUISHERS, HOSEREEL & DRYRISER.

"I, _____, NRIC No. _____, being a qualified person, hereby certify that the building works and fire safety works as shown on these plans have been designed in accordance with the provisions of the Code of Practice for Fire Precautions in Buildings 2007, including all amendments applicable up to the date of this submission, the Fire Safety Act and its Regulations, the relevant code of practice or designed guidelines, subject to waivers granted under Section 27 of the Act.

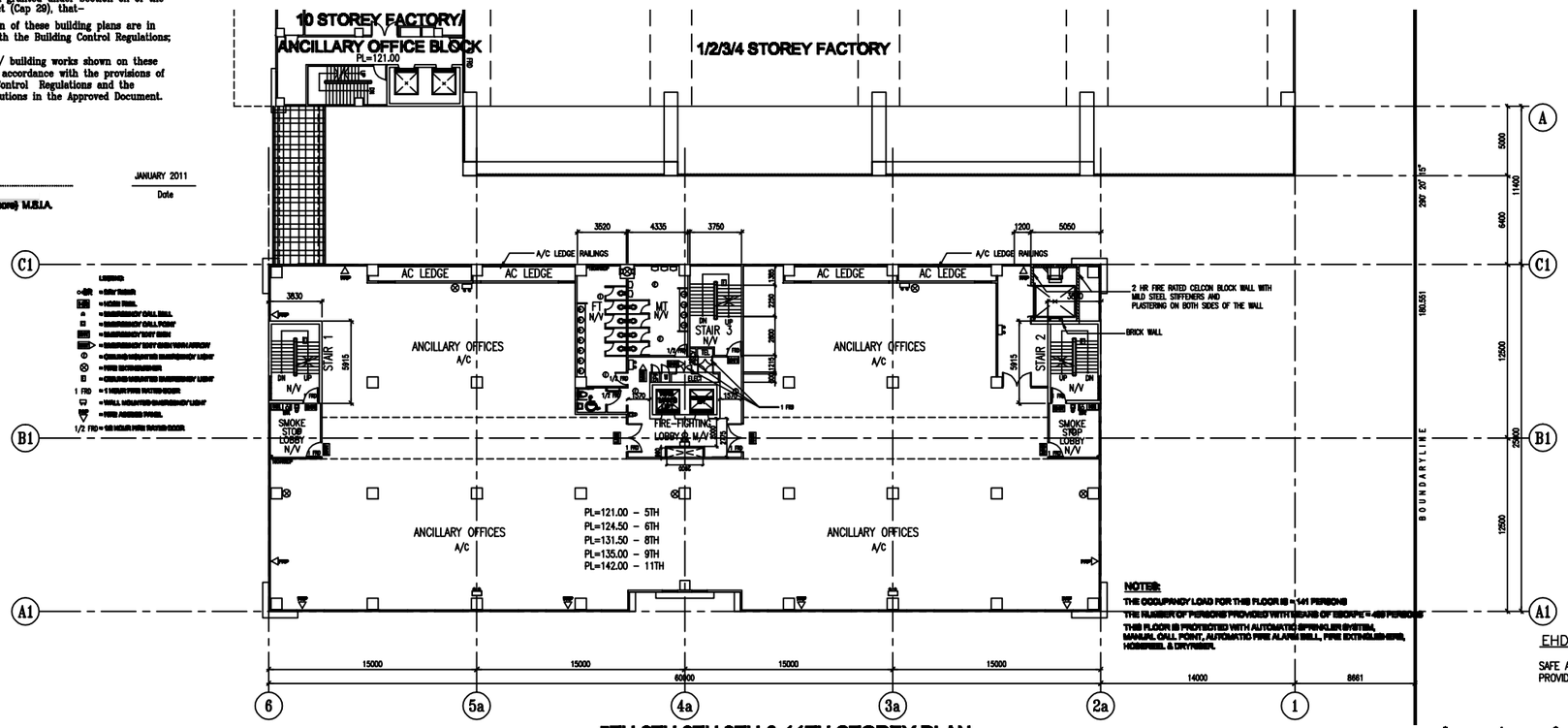
"I, _____, hereby certify, subject to any waiver/modification granted under Section 6A of the Building Control Act (Cap 29), that–

a) the preparation of these building plans are in accordance with the Building Control Regulations; and

b) the buildings / building works shown on these plans are in accordance with the provisions of the Building Control Regulations and the acceptable solutions in the Approved Document.

JANUARY 2011
Date

B.Arch.(S'pore) M.S.I.A.



5TH,6TH,8TH,9TH & 11TH STOREY PLAN

1 : 200 (13-STOREY ANCILLARY OFFICE)

NOTES:

THE OCCUPANCY LOAD FOR THIS FLOOR IS = 141 PERSONS

THE NUMBER OF PERSONS PROVIDED WITH 1 MEANS OF ESCAPE = 450 PERSONS

THIS FLOOR IS PROTECTED WITH AUTOMATIC SPRINKLER SYSTEM, MANUAL CALL POINT, AUTOMATIC FIRE ALARM BELL, FIRE EXTINGUISHERS, HOSEREEL & DRYRISER.

EHD REQUIREMENT

SAFE AND PERMANENT ACCESS ARE PROPERLY PROVIDED AND THE COMPLIANCE WITH SS 525.

SCALE = 1 : 250

0 4 8 12 16 20 METRES

Project Ref No : A903-00002-2003-BP01

TENURE OF LAND:
GOVERNMENT LAND SALES (URA/HDB)

Rev.	Date	Amendment	By
2	JULY 2006	ADDITIONAL GOODS LIFT	
1	JUN 2006	SCV, TEL SERVICES	

Lessee's Signature & Address

SYSLAND PTE. LTD.
NO. 30 TUAS BAY DRIVE
SINGAPORE 637548

Project

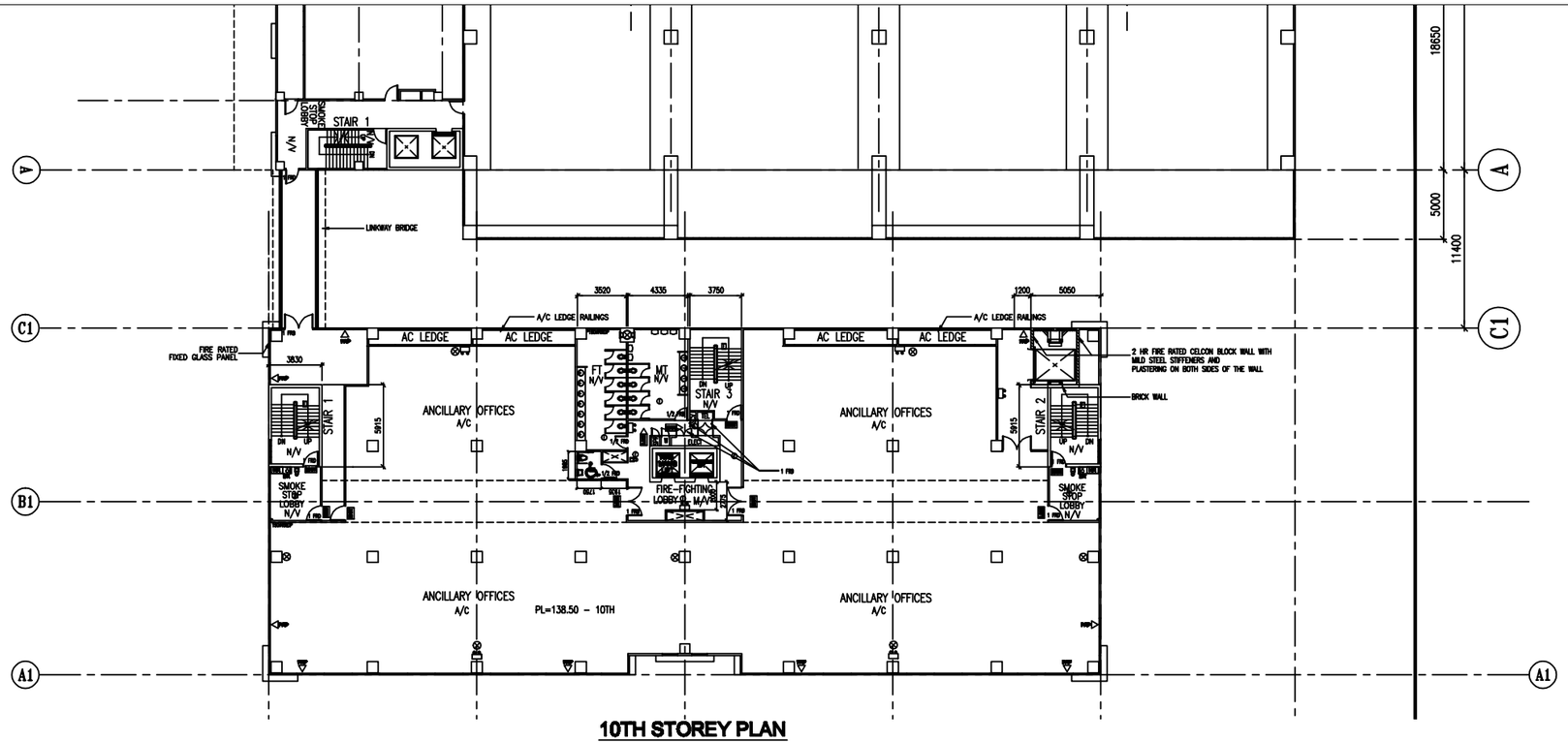
PROPOSED ERECTION OF 1/2/3/4-STOREY FACTORY, 13-STOREY ANCILLARY OFFICE BLOCK AND 10-STOREY FACTORY/ANCILLARY OFFICE BLOCK ON LOT 03338L (OLD LOT 2990A-PT) MK07 AT TUAS BAY DRIVE (TUAS PLANNING AREA)

Drawing Description

(13-STOREY ANCILLARY OFFICE)
4TH STOREY PLAN
5TH,6TH,8TH,9TH & 11TH STOREY PLAN

Date: JANUARY 2011	Scale: 1 : 200	
Drawn: TL	Designed: BP	Checked:

Drawing No: TSJ/01-039/A04 | Rev. No: 1



10TH STOREY PLAN

1 : 200 (13-STOREY ANCILLARY OFFICE)

NOTES:

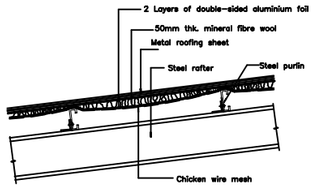
THE OCCUPANCY LOAD FOR THIS FLOOR IS = 144 PERSONS

THE NUMBER OF PERSONS PROVIDED WITH MEANS OF ESCAPE = 499 PERSONS

THIS FLOOR IS PROTECTED WITH AUTOMATIC SPRINKLER SYSTEM, MANUAL CALL POINT, AUTOMATIC FIRE ALARM BELL, FIRE EXTINGUISHERS, HOSEREEL & DRYRISER.

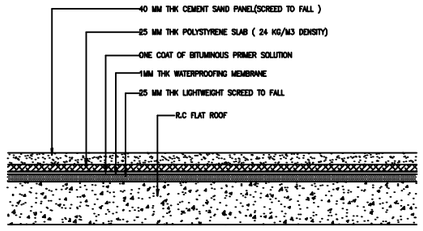
Legends

- = DRY RISER
- = HOSE REEL
- = EMERGENCY CALL BELL
- = EMERGENCY CALL POINT
- = EMERGENCY EXIT SIGN
- = EMERGENCY EXIT SIGN WITH ARROW
- = CEILING MOUNTED EMERGENCY LIGHT
- = FIRE EXTINGUISHER
- = CEILING MOUNTED EMERGENCY LIGHT
- 1 HRS = 1 HOUR FIRE RATED DOOR
- = WALL MOUNTED EMERGENCY LIGHT
- = FIRE ACCESS PANEL
- 1/2 HRS = 1/2 HOUR FIRE RATED DOOR



METAL ROOF DETAIL

1 : 20



R.C. FLAT ROOF DETAIL

1 : 10

ROOF U-VALUE CALCULATIONS

THERMAL CONDUCTIVITY OF METAL ROOF (GLP-LCR),ASSUMED 0.5MM THK. = 221

THERMAL CONDUCTIVITY OF FIBRE GLASS WOOL INSULATION 50MM = 0.035

Ro(SLOPE ROOF) (HIGH EMISSIVITY) = 0.145

Ro(SLOPE ROOF)(HIGH EMISSIVITY) = 0.055

Ro (LOW EMISSIVITY) = 0.052

RT = Ro + M/K + M/K + Ra + Rt

= 0.055 + 0.050/221 + 0.05/0.035 + 0.145 + 0.052 = 2.3333

U = 1/RT = 0.424 W/M²K

U-VALUE CALCULATION FOR THE R.C. FLAT ROOF

DENSITY OF CONCRETE = 2400KG/M³ (FOR THE R.C. FLAT ROOF)

U = 1/RT

RT = Ro + M/K + M/K ..... Rt

= 0.055 + 0.104 + 0.102 + 0.7143 + 0.0333 + 0.152

= 1.3419

U = 1/RT

= 1/1.3419

= 0.7454

"I, _____ ,NRIC No. _____,being a qualified person, hereby certify that the building works and fire safety works as shown on these plans have been designed in accordance with the provisions of the Code of Practice for Fire Precautions in Buildings 2007, including all amendments applicable up to the date of this submission, the Fire Safety Act and its Regulations, the relevant code of practice or designed guidelines, subject to waivers granted under Section 27 of the Act.

"I, _____, hereby certify, subject to any waiver/modification granted under Section 6A of the Building Control Act (Cap 29), that–

a) the preparation of these building plans are in accordance with the Building Control Regulations; and

b) the buildings / building works shown on these plans are in accordance with the provisions of the Building Control Regulations and the acceptable solutions in the Approved Document.

.....

B.Arch.(S'pore) M.S.I.A.

JANUARY 2011

Date

EHD REQUIREMENT

SAFE AND PERMANENT ACCESS ARE PROPERLY PROVIDED AND THE COMPLIANCE WITH SS 525.

0 4 8 12 16 20 METRES

SCALE = 1 : 200

Project Ref No : A903-00002-2003-BP01

TENURE OF LAND:

GOVERNMENT LAND SALES (URA/HDB)

Rev.	Date	Amendment	By
2	JULY 2006	ADDITIONAL GOODS LIFT	
1	JUN 2006	SCV, TEL SERVICES	

Lessee's Signature & Address

SYSLAND PTE. LTD.
NO. 30 TUAS BAY DRIVE
SINGAPORE 637548

Project

PROPOSED ERECTION OF 1/2/3/4-STOREY FACTORY, 13-STOREY ANCILLARY OFFICE BLOCK AND 10-STOREY FACTORY/ANCILLARY OFFICE BLOCK ON LOT 03338L (OLD LOT 2990A-PT) MK07 AT TUAS BAY DRIVE (TUAS PLANNING AREA)

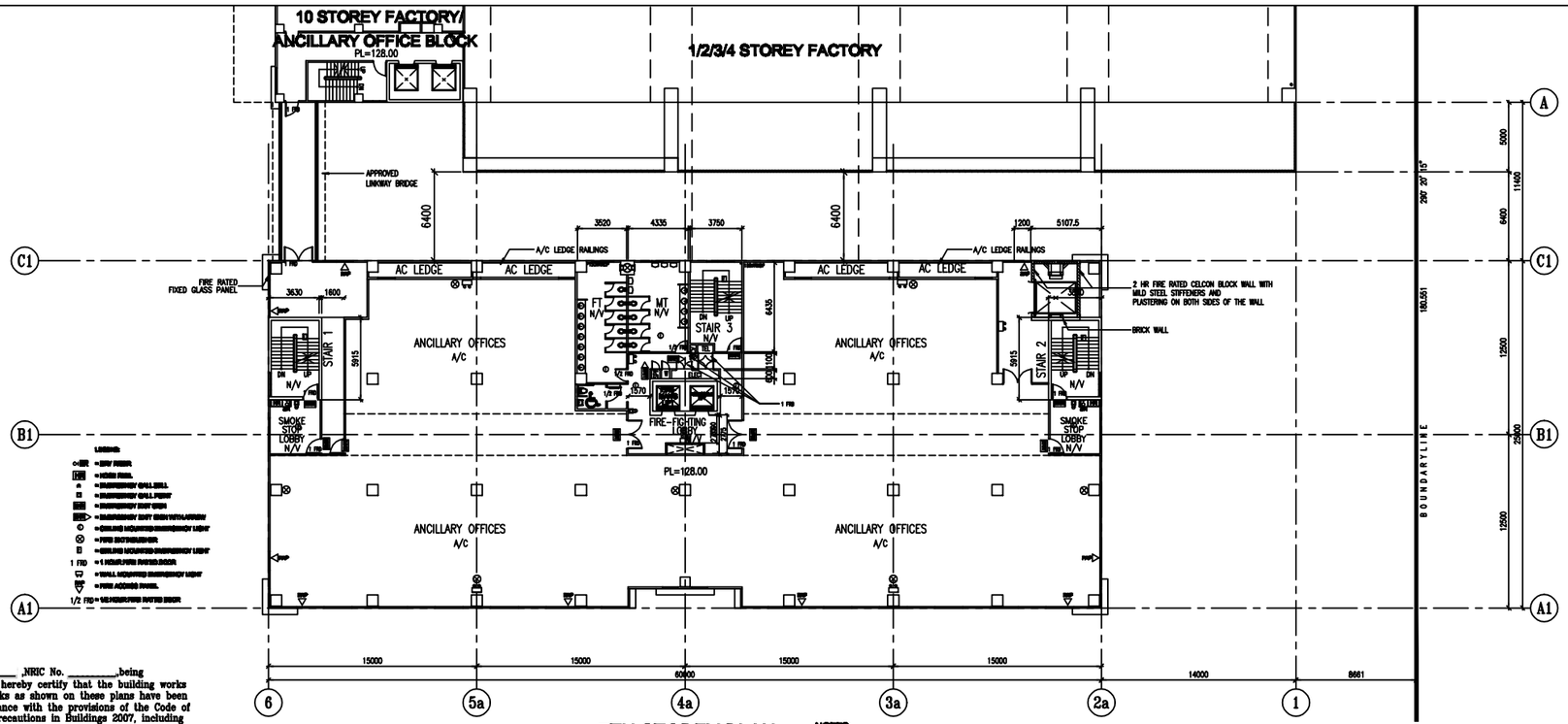
Drawing Description

(13-STOREY ANCILLARY OFFICE)
10TH STOREY PLAN
METAL ROOF DETAIL
R.C. FLAT ROOF DETAIL

Date: JANUARY 2011 | Scale: 1 : 200

Drawn: TL | Designed: BP | Checked: TSJ

Drawing No: TSJ/01-039/A04a | Rev. No: 1



7TH STOREY PLAN

1 : 200 (13-STOREY ANCILLARY OFFICE)

NOTES:

THE OCCUPANCY LOAD FOR THIS FLOOR IS = 144 PERSONS

THE NUMBER OF PERSONS PROVIDED WITH MEANS OF ESCAPE = 469 PERSONS

THIS FLOOR IS PROTECTED WITH AUTOMATIC SPRINKLER SYSTEM, MANUAL CALL POINT, AUTOMATIC FIRE ALARM BELL, FIRE EXTINGUISHERS, HOSEREEL & DRYRISER.

"I, _____ ,NRIC No. _____,being a qualified person, hereby certify that the building works and fire safety works as shown on these plans have been designed in accordance with the provisions of the Code of Practice for Fire Precautions in Buildings 2007, including all amendments applicable up to the date of this submission, the Fire Safety Act and its Regulations, the relevant code of practice or designed guidelines, subject to waivers granted under Section 27 of the Act.

"I, _____, hereby certify, subject to any waiver/modification granted under Section 6A of the Building Control Act (Cap 29), that:-

a) the preparation of these building plans are in accordance with the Building Control Regulations; and

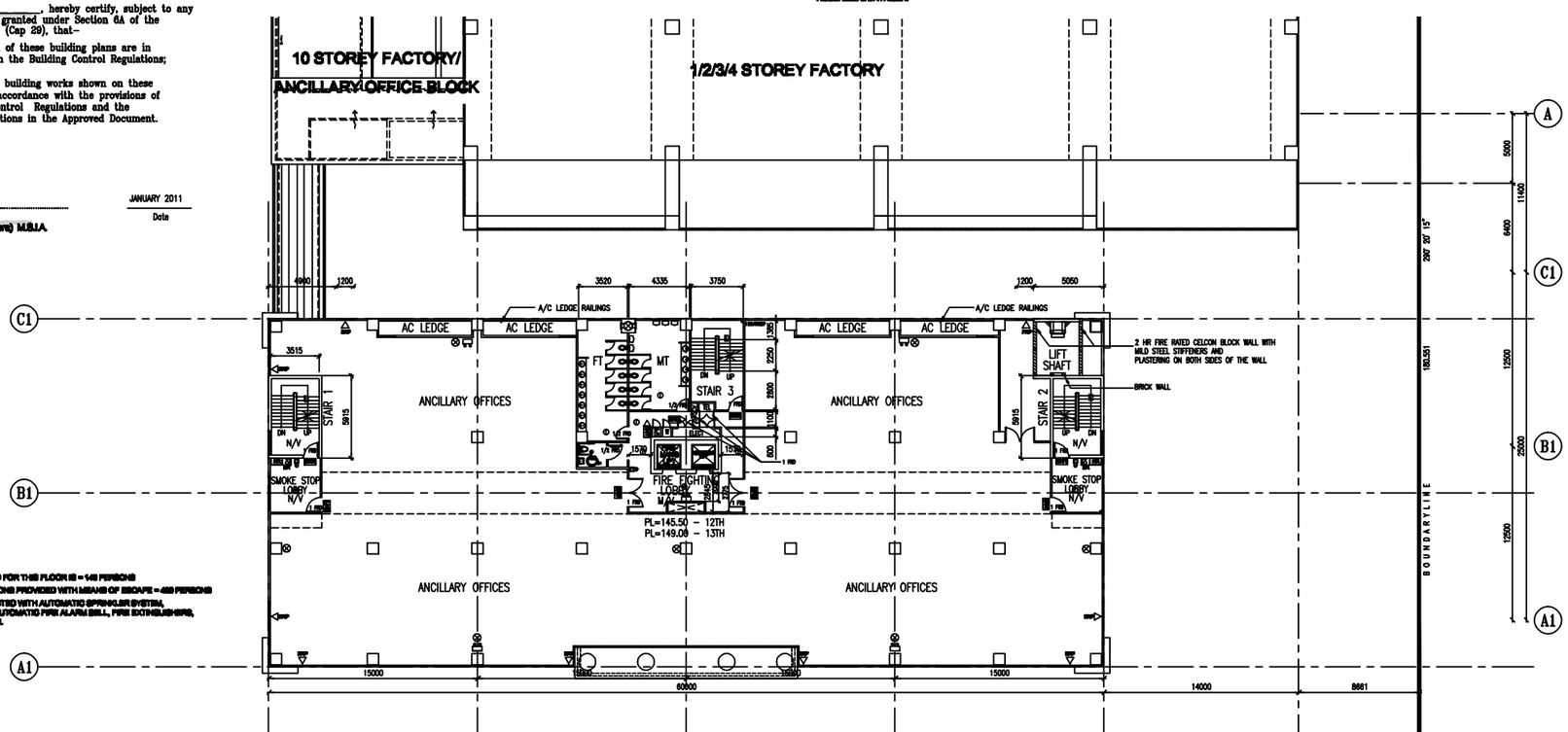
b) the buildings / building works shown on these plans are in accordance with the provisions of the Building Control Regulations and the acceptable solutions in the Approved Document.

JANUARY 2011
Date

B.Arch.(S'pore) M.S.I.A.

EHD REQUIREMENT

SAFE AND PERMANENT ACCESS ARE PROPERLY PROVIDED AND THE COMPLIANCE WITH SS 525.



NOTES:

THE OCCUPANCY LOAD FOR THIS FLOOR IS = 149 PERSONS

THE NUMBER OF PERSONS PROVIDED WITH MEANS OF ESCAPE = 469 PERSONS

THIS FLOOR IS PROTECTED WITH AUTOMATIC SPRINKLER SYSTEM, MANUAL CALL POINT, AUTOMATIC FIRE ALARM BELL, FIRE EXTINGUISHERS, HOSEREEL & DRYRISER.

12TH STOREY PLAN

1 : 200 (13-STOREY ANCILLARY OFFICE)

0 4 8 12 16 20 METRES
SCALE = 1 : 200

06 sheet of 40

Project Ref No : A903-00002-2003-BP01

TENURE OF LAND:
GOVERNMENT LAND SALES (URA/HDB)

Rev.	Date	Amendment	By
2	JULY 2006	ADDITIONAL GOODS LIFT	
1	JUN 2006	SCV, TEL SERVICES	

Lessee's Signature & Address

SYSLAND PTE. LTD.
NO. 30 TUAS BAY DRIVE
SINGAPORE 637548

Project

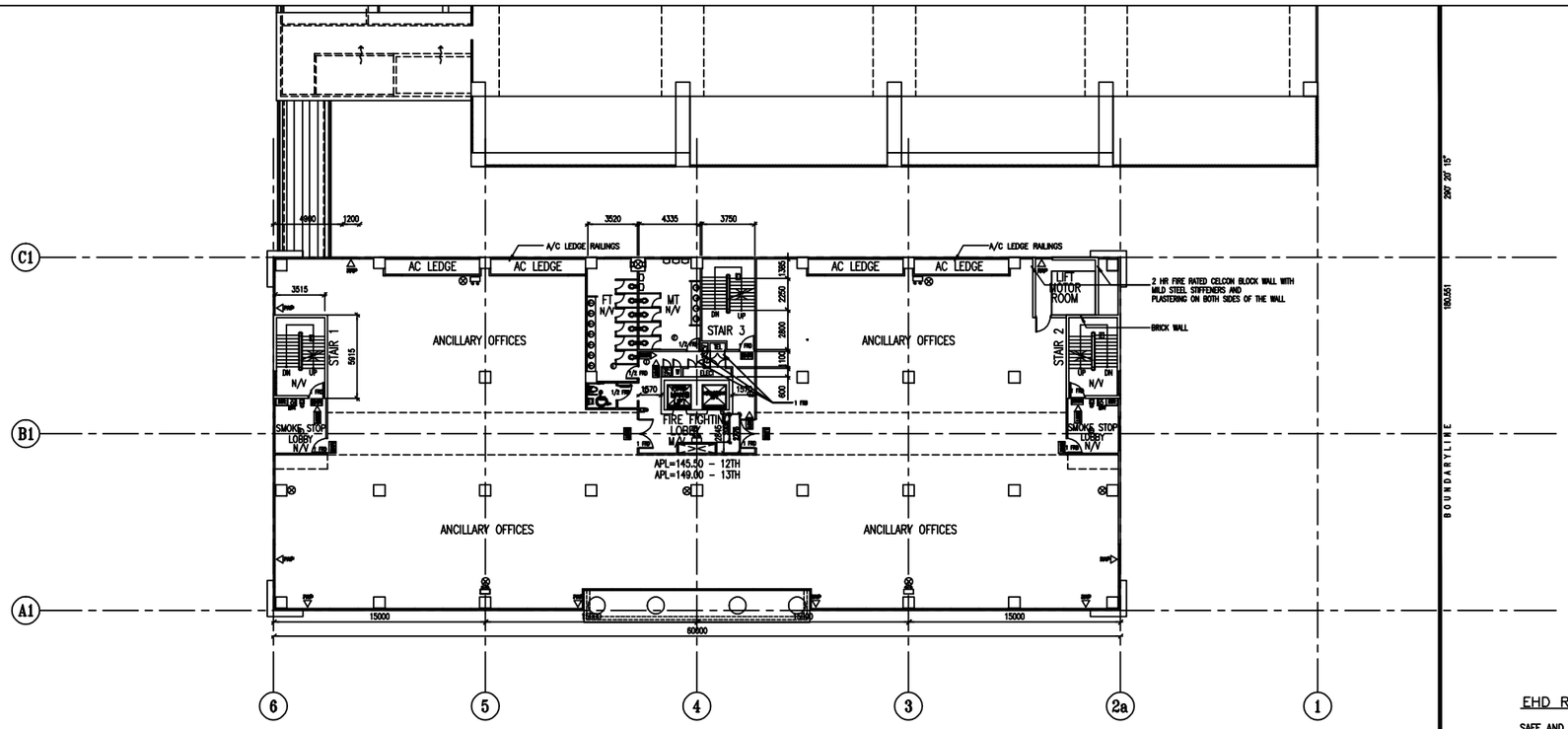
PROPOSED ERECTION OF 1/2/3/4-STOREY FACTORY, 13-STOREY ANCILLARY OFFICE BLOCK AND 10-STOREY FACTORY/ANCILLARY OFFICE BLOCK ON LOT 03338L (OLD LOT 2990A-PT) MK07 AT TUAS BAY DRIVE (TUAS PLANNING AREA)

Drawing Description

(13-STOREY ANCILLARY OFFICE)
7TH STOREY PLAN
12TH,13TH STOREY PLAN

Date: JANUARY 2011	Scale: 1 : 200	
Drawn: TL	Designed: BP	Checked:

Drawing No: TSJ/01-039/A05 | Rev. No: 1



13TH STOREY PLAN

1 : 200 (13-STOREY ANCILLARY OFFICE)

NOTES:

THE OCCUPANCY LOAD FOR THIS FLOOR IS = 148 PERSONS

THE NUMBER OF PERSONS PROVIDED WITH MEANS OF ESCAPE = 468 PERSONS

THIS FLOOR IS PROTECTED WITH AUTOMATIC SPRINKLER SYSTEM, MANUAL CALL POINT, AUTOMATIC FIRE ALARM BELL, FIRE EXTINGUISHERS, HOSEREEL & DRYRISER.

LEGEND

- = 30W PHEON.
- = HOSE REEL.
- = EMERGENCY CALL BELL.
- = EMERGENCY CALL POINT
- = EMERGENCY EXIT SIGN
- = EMERGENCY EXIT SIGN WITH ARROW
- = CEILING MOUNTED EMERGENCY LIGHT
- = FIRE EXTINGUISHER
- = CEILING MOUNTED EMERGENCY LIGHT
- 1 FRD = 1 HOUR FIRE RATED DOOR
- = WALL MOUNTED EMERGENCY LIGHT
- = FIRE ALARM PANEL.
- 1/2 FRD = 1/2 HOUR FIRE RATED DOOR

EHD REQUIREMENT

SAFE AND PERMANENT ACCESS ARE PROPERLY PROVIDED AND THE COMPLIANCE WITH SS 525.

"I, _____ ,NRIC No. _____ ,being a qualified person, hereby certify that the building works and fire safety works as shown on these plans have been designed in accordance with the provisions of the Code of Practice for Fire Precautions in Buildings 2007, including all amendments applicable up to the date of this submission, the Fire Safety Act and its Regulations, the relevant code of practice or designed guidelines, subject to waivers granted under Section 27 of the Act.

"I, _____, hereby certify, subject to any waiver/modification granted under Section 6A of the Building Control Act (Cap 29), that–

a) the preparation of these building plans are in accordance with the Building Control Regulations; and

b) the buildings / building works shown on these plans are in accordance with the provisions of the Building Control Regulations and the acceptable solutions in the Approved Document.

..... JANUARY 2011

B.Arch.(S'pore) M.S.I.A. Date

0 4 8 12 16 20 METRES

SCALE = 1 : 200

07 sheet of 40

Project Ref No : A903-00002-2003-BP01

TENURE OF LAND:

GOVERNMENT LAND SALES (URA/HDB)

Rev.	Date	Amendment	By
1	JUN 2006	SCV, TEL SERVICES	

Lessee's Signature & Address

SYSLAND PTE. LTD.
NO. 30 TUAS BAY DRIVE
SINGAPORE 637548

Project

PROPOSED ERECTION OF 1/2/3/4-STOREY FACTORY, 13-STOREY ANCILLARY OFFICE BLOCK AND 10-STOREY FACTORY/ANCILLARY OFFICE BLOCK ON LOT 03338L (OLD LOT 2990A-PT) MK07 AT TUAS BAY DRIVE (TUAS PLANNING AREA)

Drawing Description

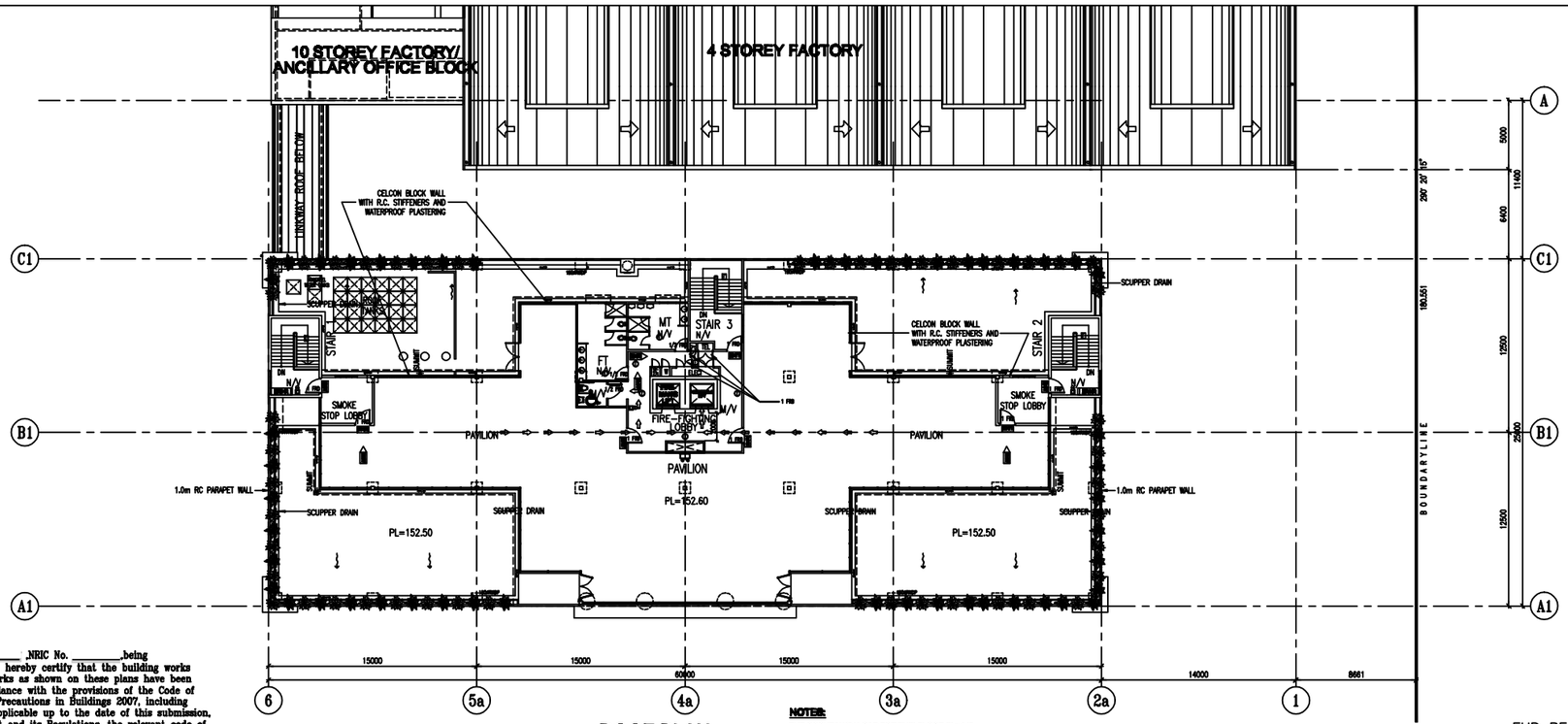
(13-STOREY ANCILLARY OFFICE)

13TH STOREY PLAN

Date: JANUARY 2011 | Scale: 1 : 200

Drawn: TL | Designed: BP | Checked:

Drawing No: TSJ/01-039/A05a | Rev. No: 1



ROOF PLAN

1 : 200 (13-STOREY ANCILLARY OFFICE)

NOTES:

THE OCCUPANCY LOAD FOR THIS FLOOR IS = 149

THE NUMBER OF PERSONS PROVIDED WITH MEANS OF ESCAPE = 498

THIS FLOOR IS PROTECTED WITH AUTOMATIC SPRINKLER SYSTEM, MANUAL CALL POINT, AUTOMATIC FIRE ALARM BELL, FIRE EXTINGUISHERS, HOSEREEL & DRYRISER.

"I, _____ NRIC No. _____ being a qualified person, hereby certify that the building works and fire safety works as shown on these plans have been designed in accordance with the provisions of the Code of Practice for Fire Precautions in Buildings 2007, including all amendments applicable up to the date of this submission, the Fire Safety Act and its Regulations, the relevant code of practice or designed guidelines, subject to waivers granted under Section 27 of the Act.

"I, _____, hereby certify, subject to any waiver/modification granted under Section 6A of the Building Control Act (Cap 29), that–

a) the preparation of these building plans are in accordance with the Building Control Regulations; and

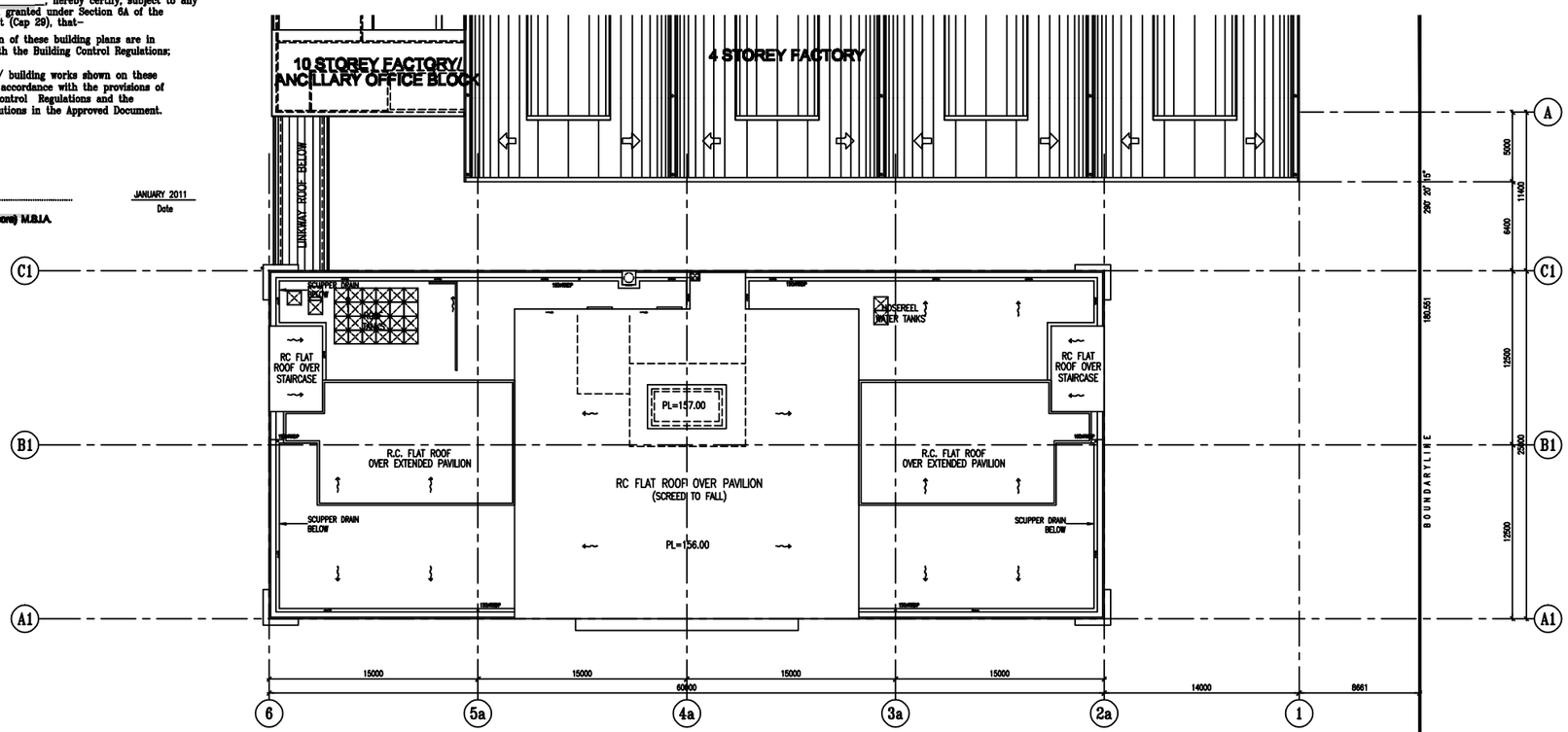
b) the buildings / building works shown on these plans are in accordance with the provisions of the Building Control Regulations and the acceptable solutions in the Approved Document.

JANUARY 2011
Date

.....
B.Arch.(S'pore) M.S.I.A.

EHD REQUIREMENT

SAFE AND PERMANENT ACCESS ARE PROPERLY PROVIDED AND THE COMPLIANCE WITH SS 525.



UPPER ROOF PLAN

1 : 200 (13-STOREY ANCILLARY OFFICE)

0 4 8 12 16 20 METRES

SCALE = 1 : 200

08 sheet of 40

Project Ref No : A903-00002-2003-BP01

TENURE OF LAND:

GOVERNMENT LAND SALES (URA/HDB)

Rev.	Date	Amendment	By
2	JUN 2006	SCV, TEL SERVICES	
1	SEPT 2005	REVISED WATER TANK SIZE AND LOCATION	

Lessee's Signature & Address

SYSLAND PTE. LTD.
NO. 30 TUAS BAY DRIVE
SINGAPORE 637548

Project

PROPOSED ERECTION OF 1/2/3/4-STOREY FACTORY, 13-STOREY ANCILLARY OFFICE BLOCK AND 10-STOREY FACTORY/ANCILLARY OFFICE BLOCK ON LOT 03338L (OLD LOT 2990A-PT) MK07 AT TUAS BAY DRIVE (TUAS PLANNING AREA)

Drawing Description

(13-STOREY ANCILLARY OFFICE)
ROOF PLAN
UPPER ROOF PLAN

Date: JANUARY 2011 | Scale: 1 : 200

Drawn: TL | Designed: BP | Checked:

Drawing No: TSJ/01-039/A06 | Rev. No: 2