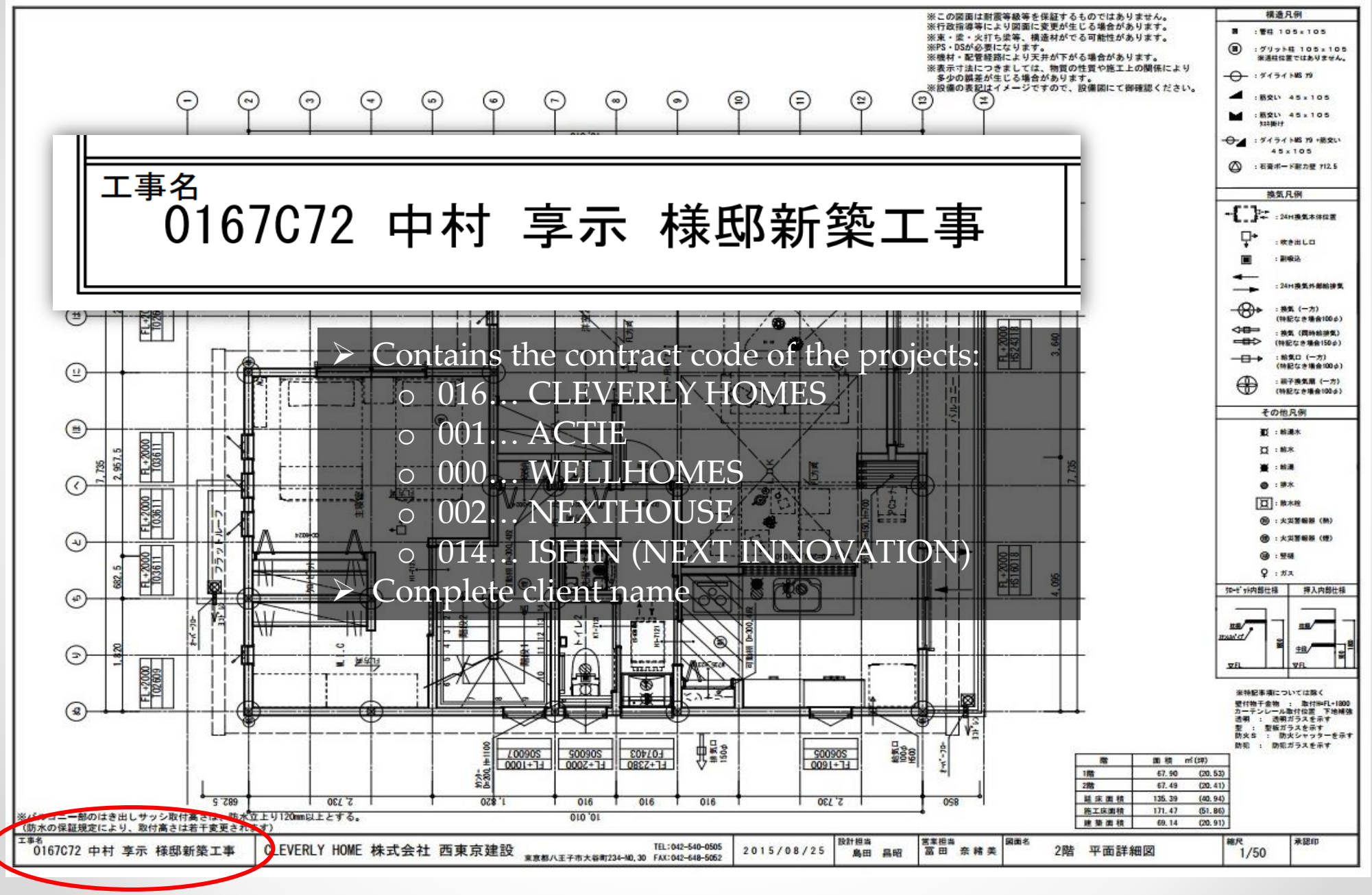
Prepared by: IDr. Ruth Annalyn Acibar, CAD Supervisor
©Frontier Intermediary Technology, Inc. 2016

BASIC PLANS

- Consists of BASIC DETAIL PLAN and BASIC ELECTRICAL PLAN
- Contains much detailed floor plans with complete symbols and labels used as reference
- May be used for CONSTRUCTION PHASE

TITLE BLOCK

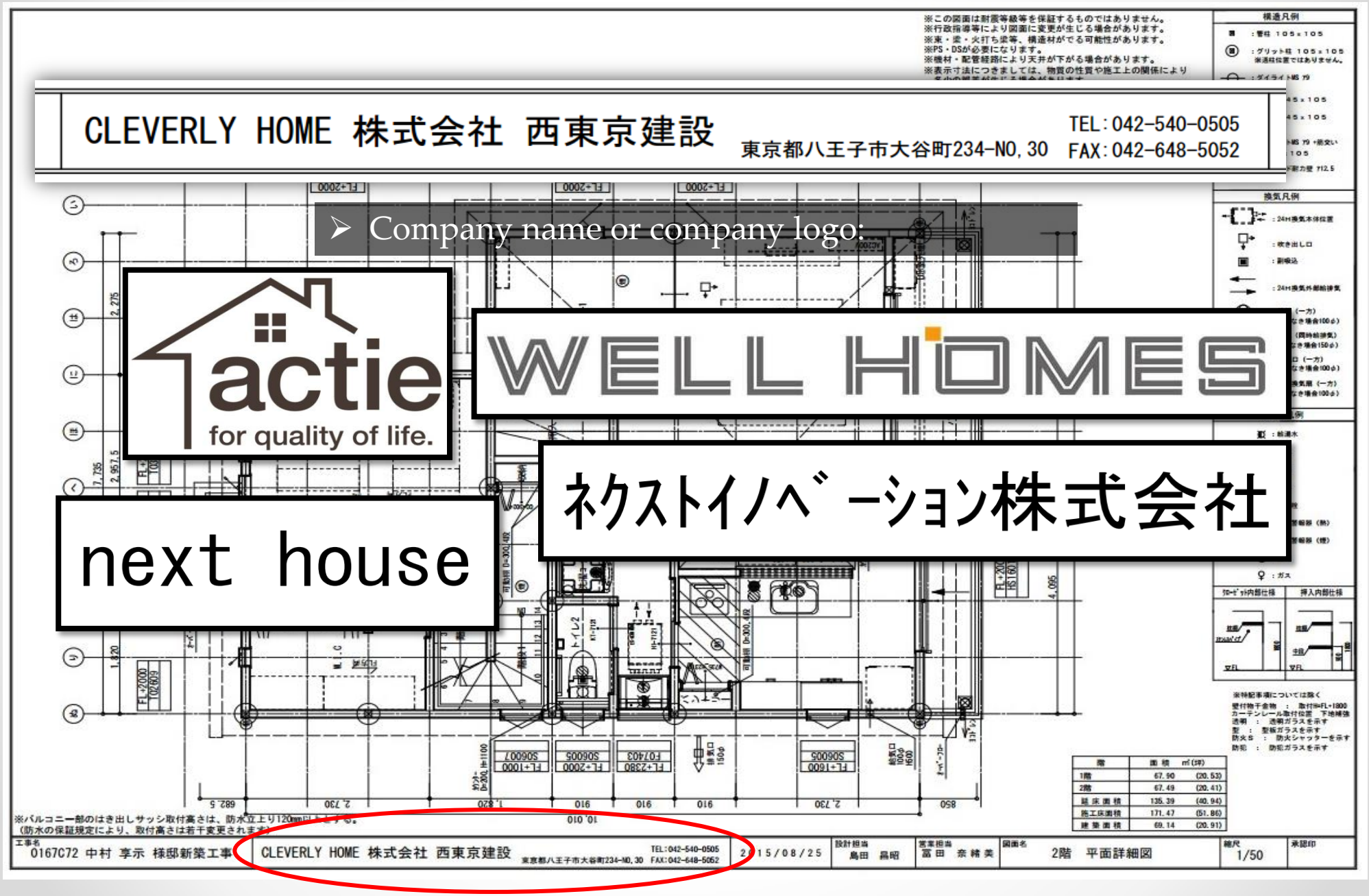
Prepared by: IDr. Ruth Annalyn Acibar, CAD Supervisor
©Frontier Intermediary Technology, Inc. 2016



- Contains the contract code of the projects:
  - 016… CLEVERLY HOMES
  - 001… ACTIE
  - 000… WELLHOMES
  - 002… NEXTHOUSE
  - 014… ISHIN (NEXT INNOVATION)
- Complete client name

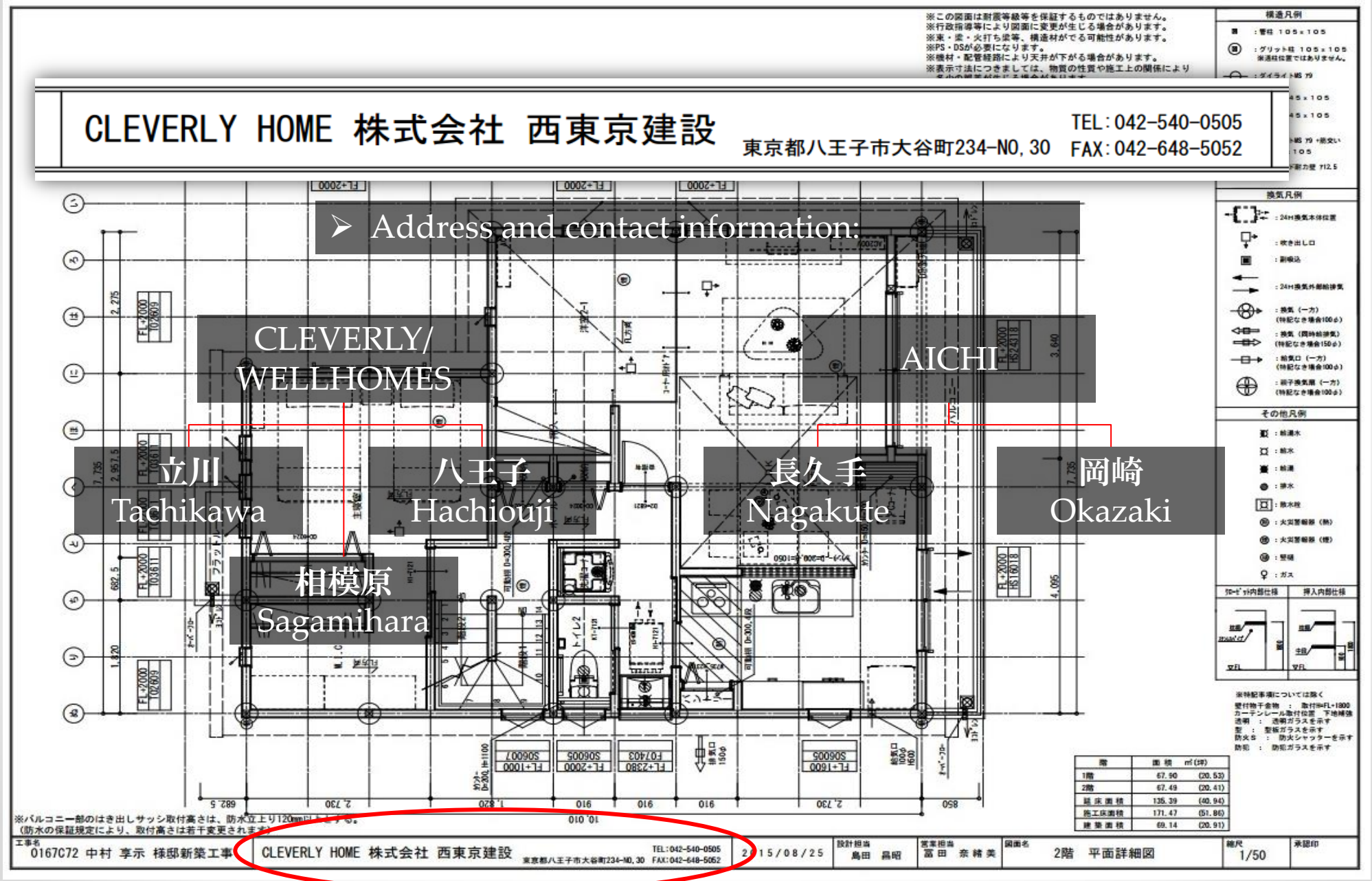
TITLE BLOCK

Prepared by: IDr. Ruth Annalyn Acibar, CAD Supervisor
©Frontier Intermediary Technology, Inc. 2016



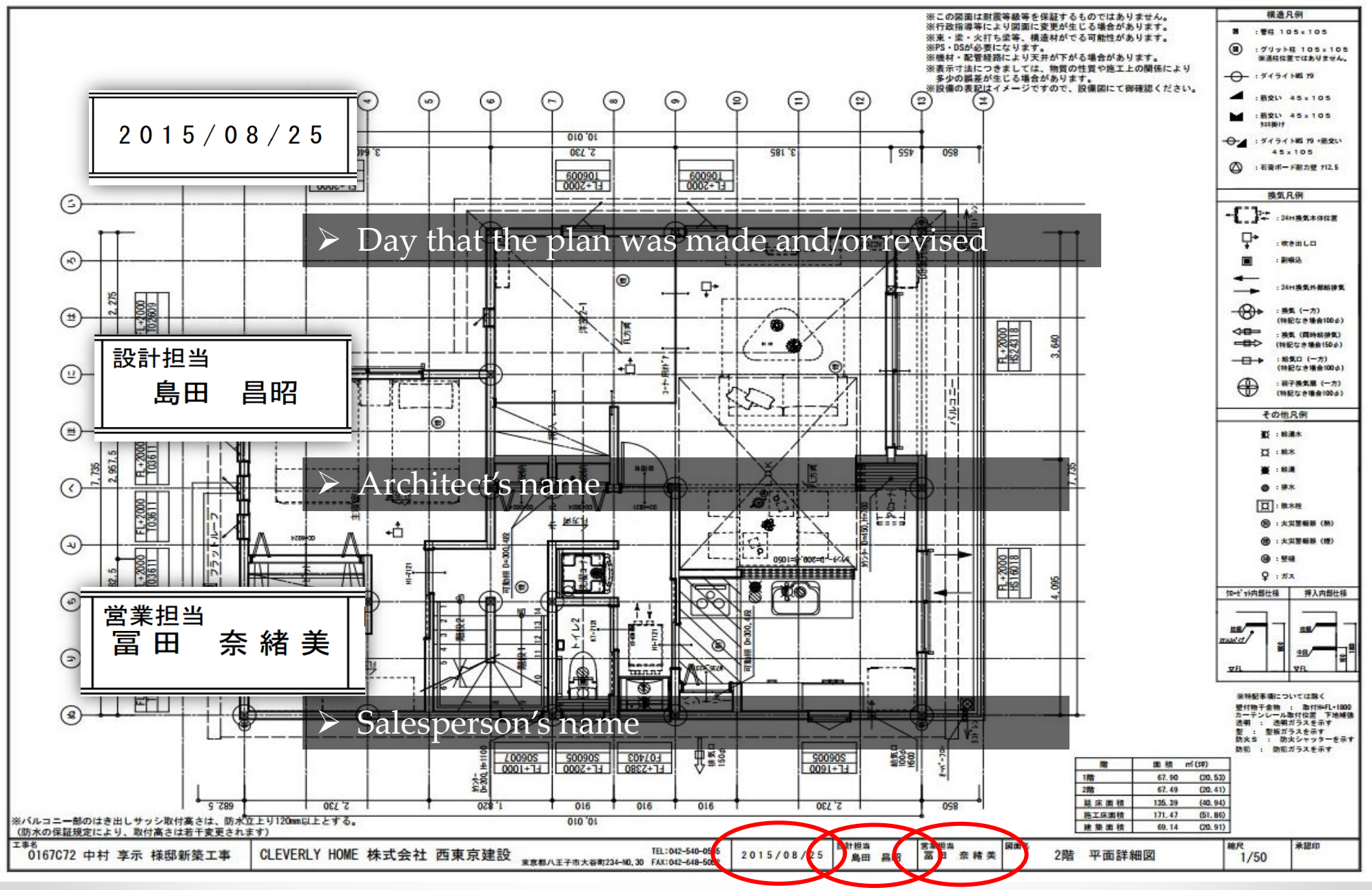
TITLE BLOCK

Prepared by: IDr. Ruth Annalyn Acibar, CAD Supervisor
©Frontier Intermediary Technology, Inc. 2016



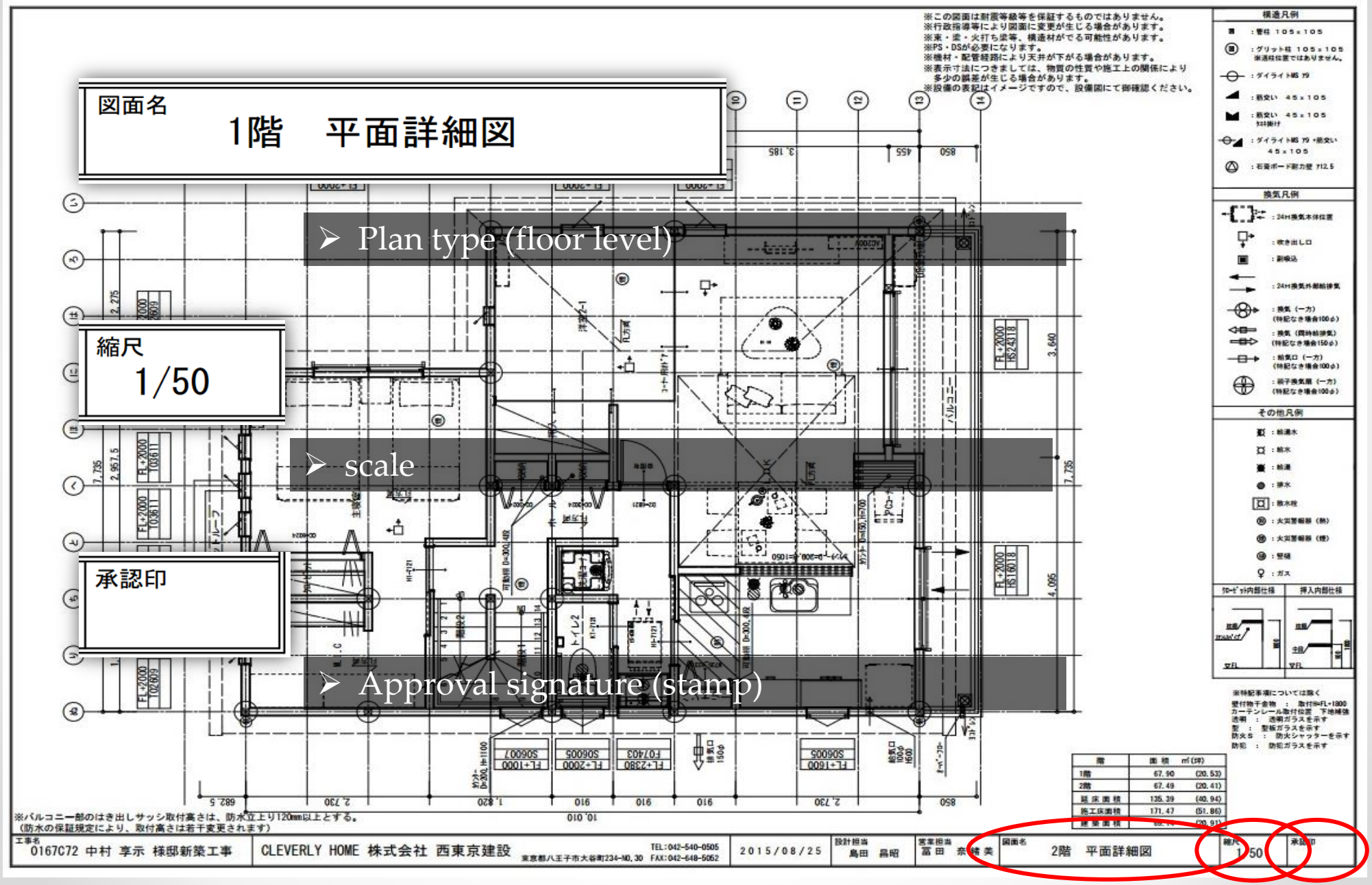
TITLE BLOCK

Prepared by: IDr. Ruth Annalyn Acibar, CAD Supervisor
©Frontier Intermediary Technology, Inc. 2016



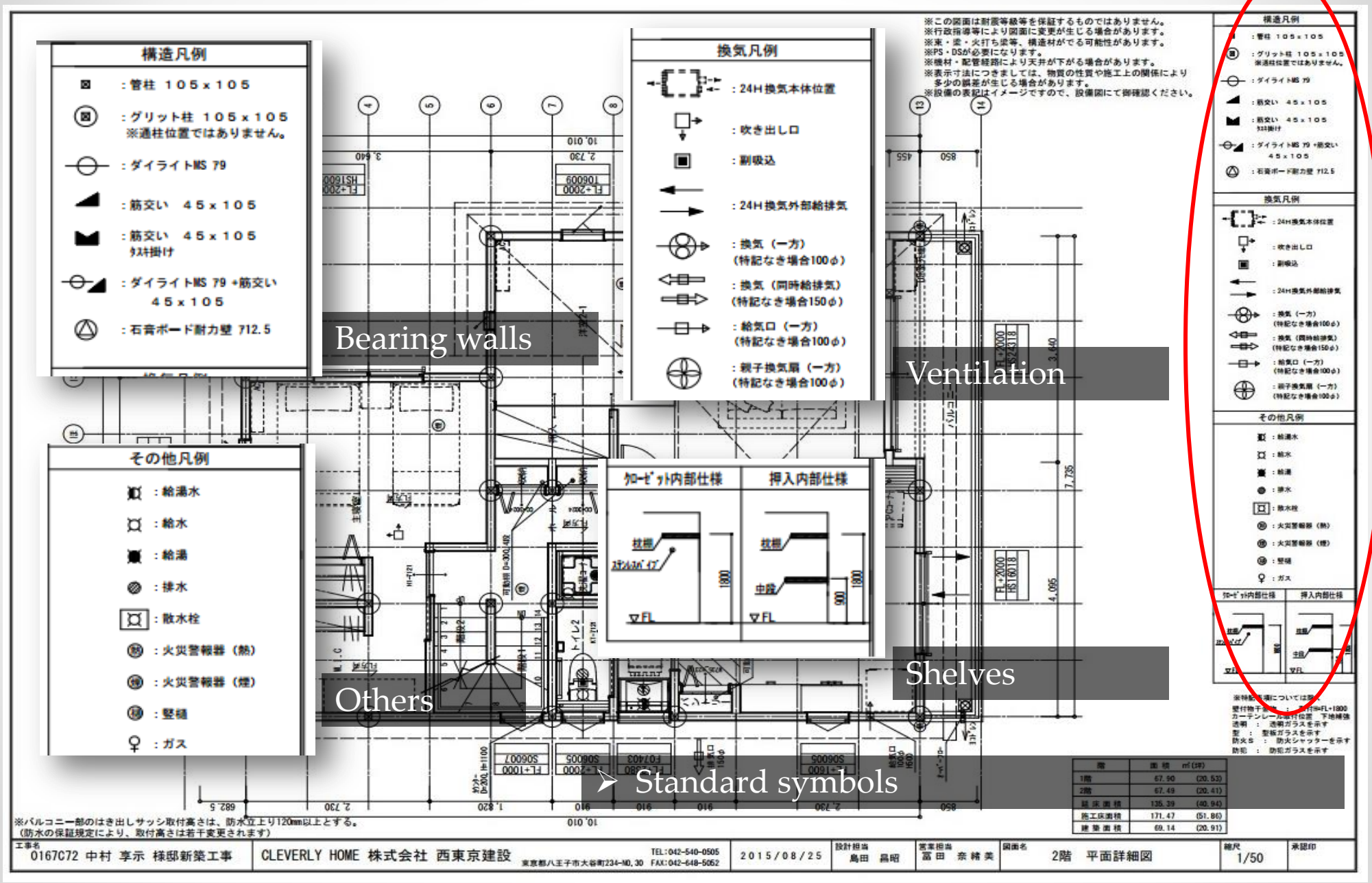
TITLE BLOCK

Prepared by: IDr. Ruth Annalyn Acibar, CAD Supervisor
©Frontier Intermediary Technology, Inc. 2016



TITLE BLOCK

Prepared by: IDr. Ruth Annalyn Acibar, CAD Supervisor
©Frontier Intermediary Technology, Inc. 2016



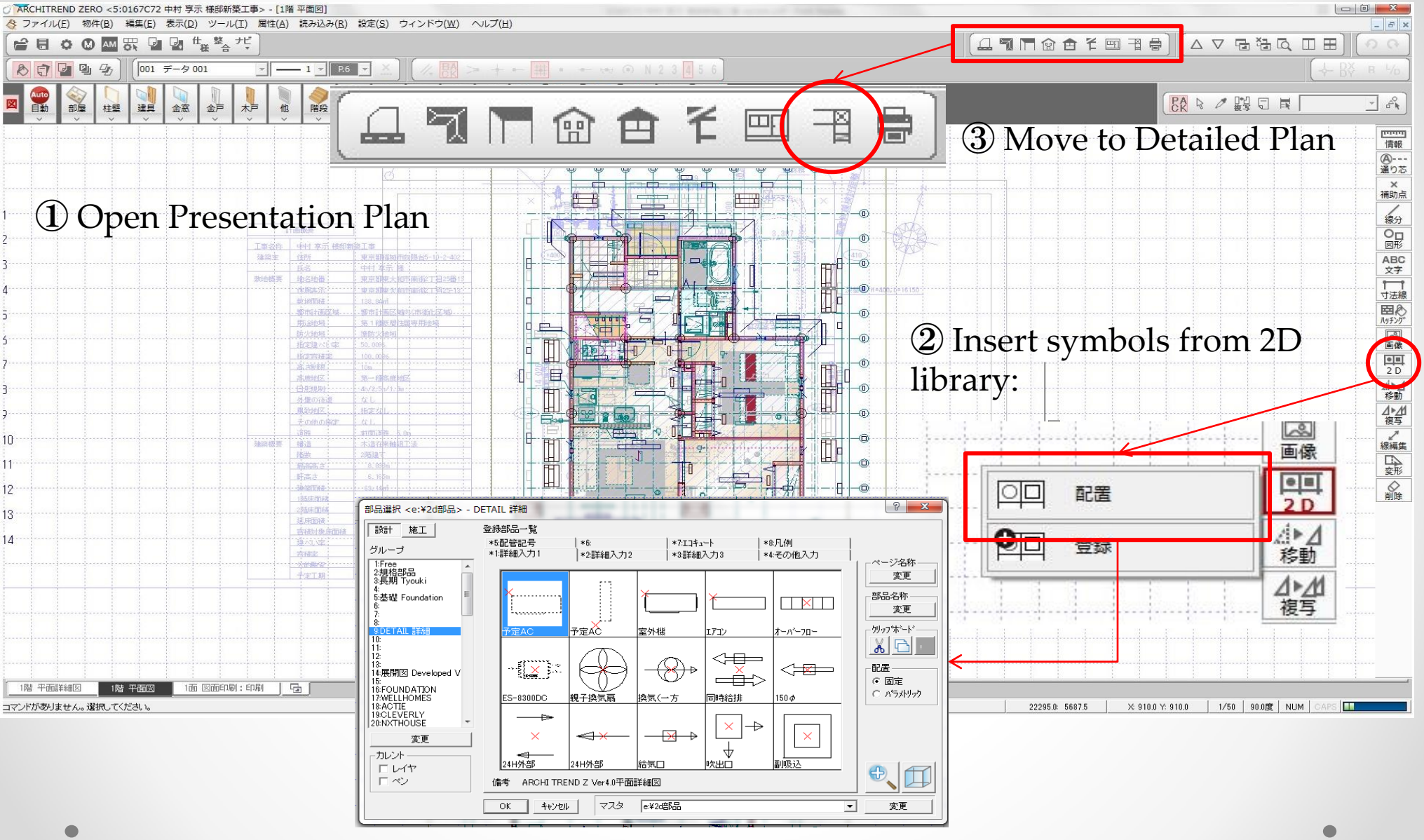
Prepared by: IDr. Ruth Annalyn Acibar, CAD Supervisor
©Frontier Intermediary Technology, Inc. 2016

BASIC DETAIL PLAN

- Consists of SITE PLAN, FLOOR PLAN, and ELEVATION PLAN
- Contains the different symbols and labels used for construction
- May also include STORAGE PLAN, BLOW-UP PLAN and CROSS SECTION PLAN

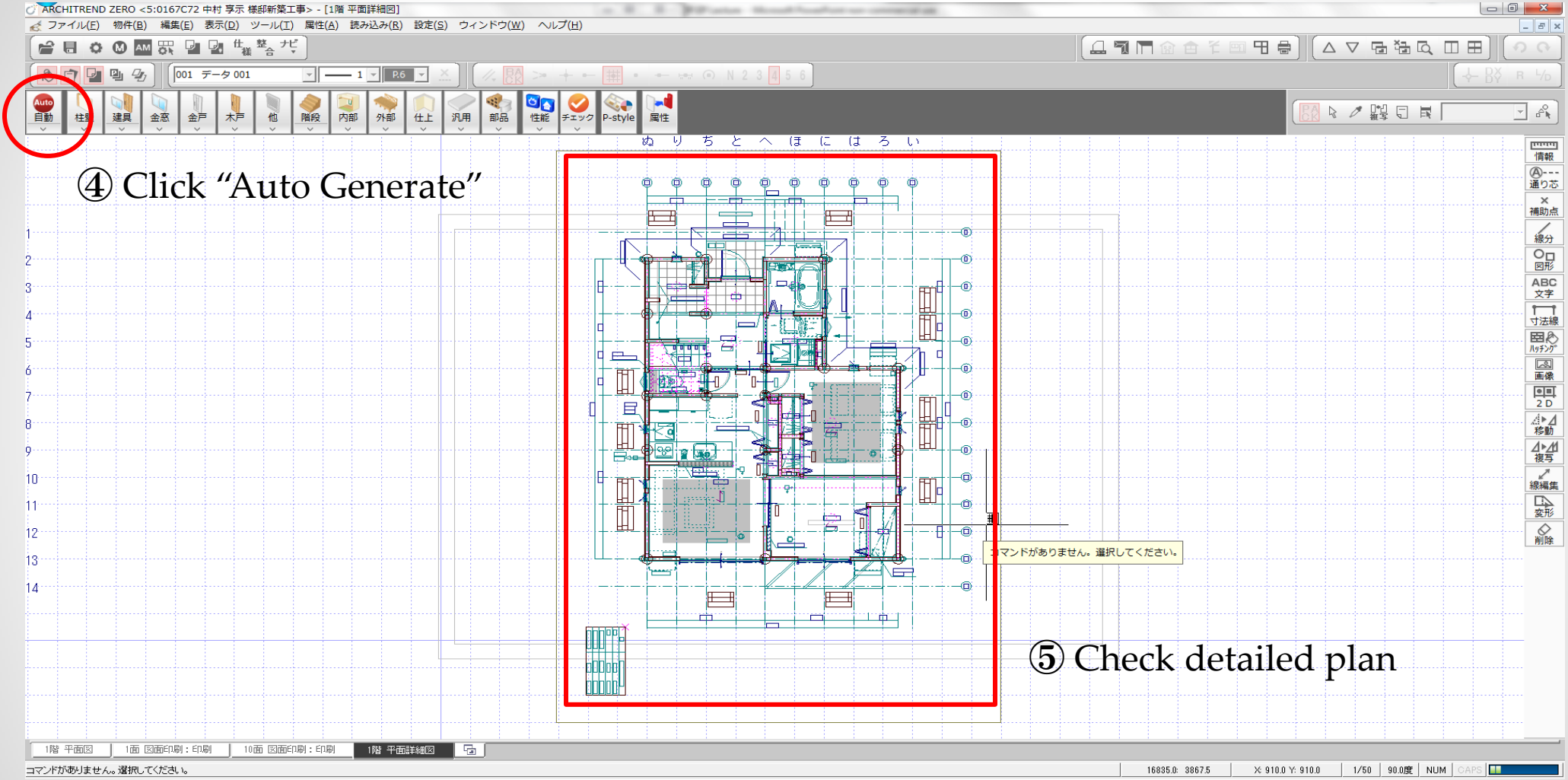
How to Create Basic DP

Prepared by: IDr. Ruth Annalyn Acibar, CAD Supervisor
©Frontier Intermediary Technology, Inc. 2016



How to Create Basic DP

Prepared by: IDr. Ruth Annalyn Acibar, CAD Supervisor
©Frontier Intermediary Technology, Inc. 2016

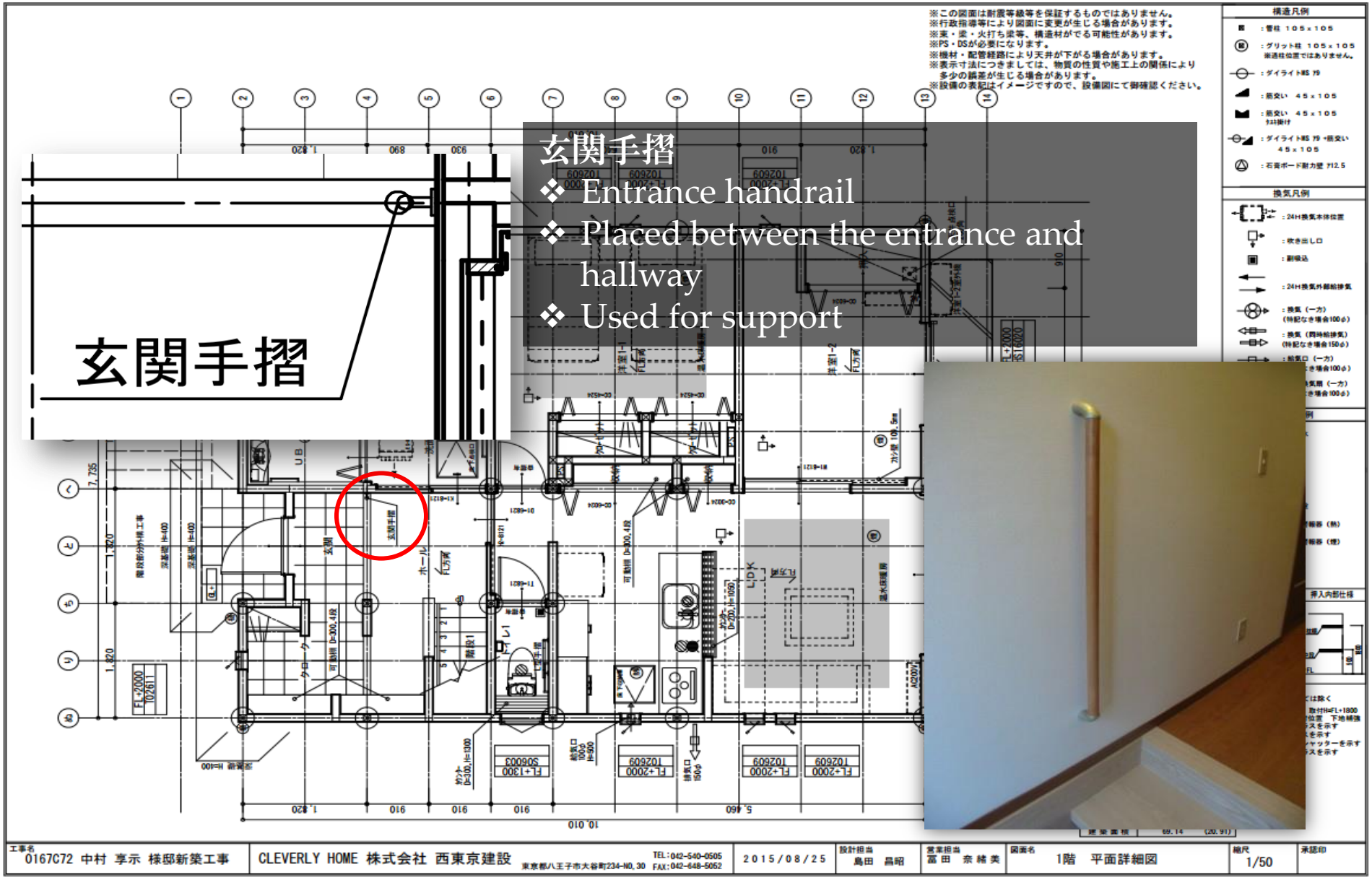


Prepared by: IDr. Ruth Annalyn Acibar, CAD Supervisor
©Frontier Intermediary Technology, Inc. 2016

FLOOR PLAN

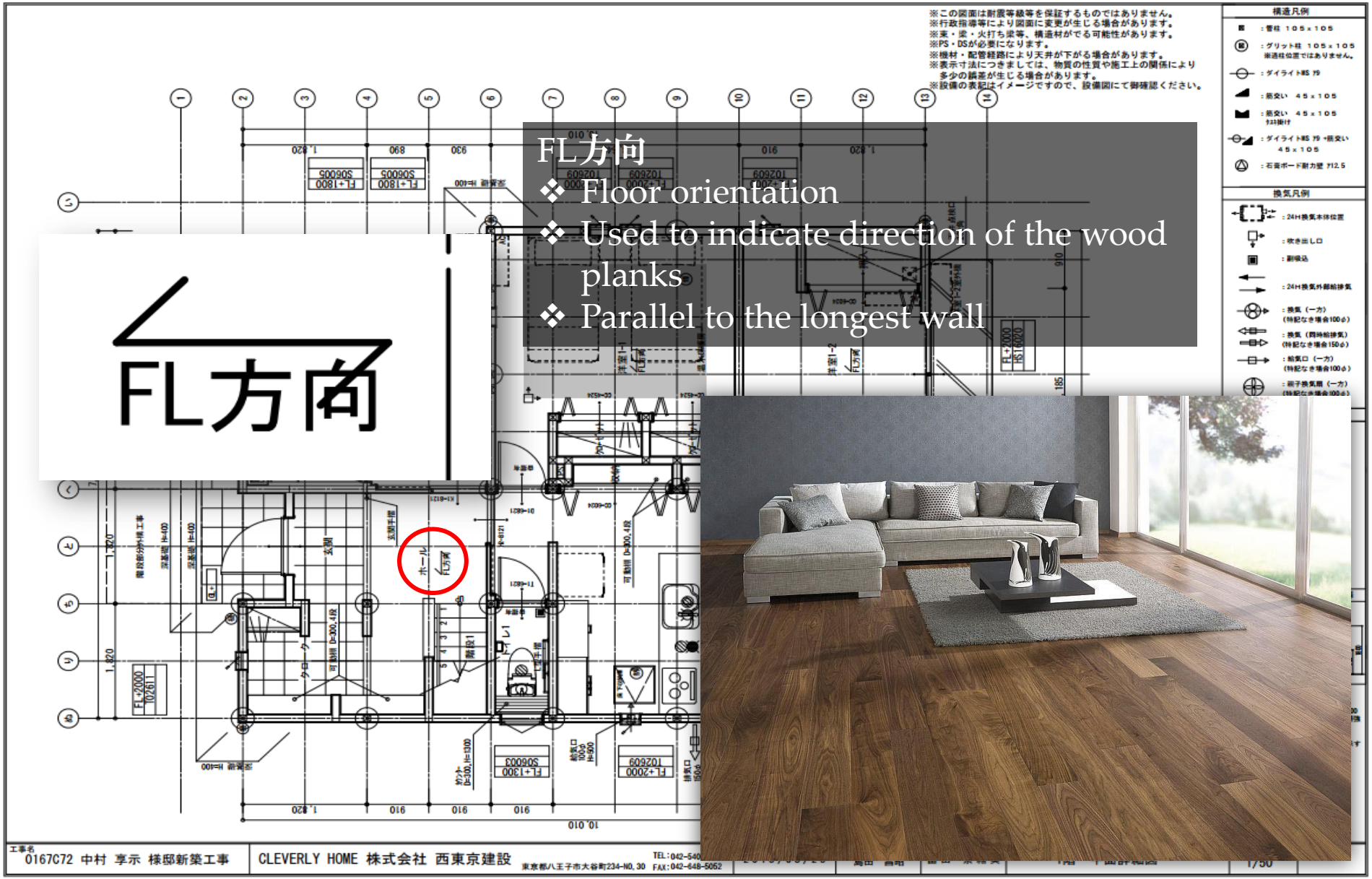
Basic DP – Floor Plan

Prepared by: IDr. Ruth Annalyn Acibar, CAD Supervisor
©Frontier Intermediary Technology, Inc. 2016



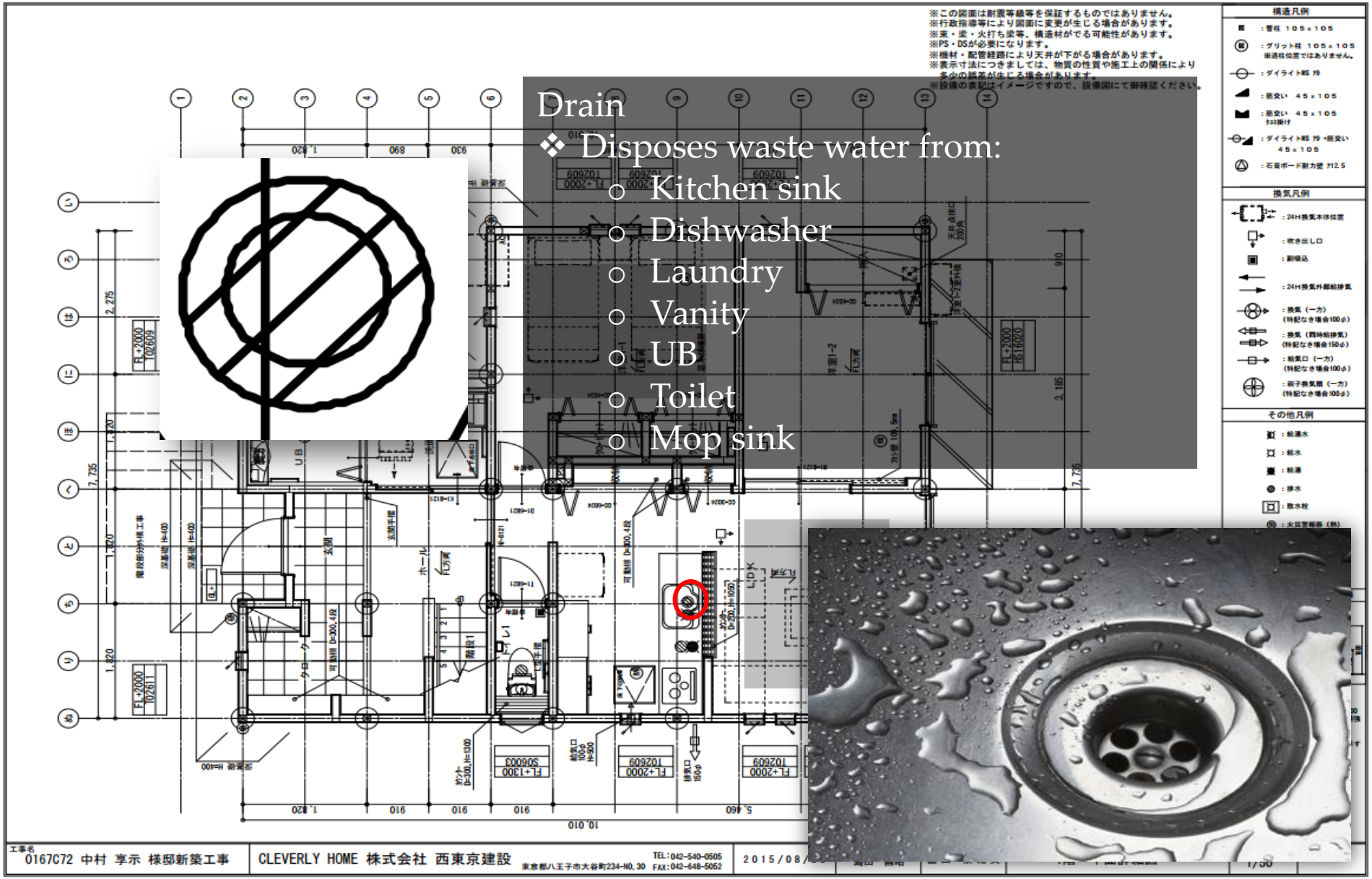
Basic DP – Floor Plan

Prepared by: IDr. Ruth Annalyn Acibar, CAD Supervisor
©Frontier Intermediary Technology, Inc. 2016



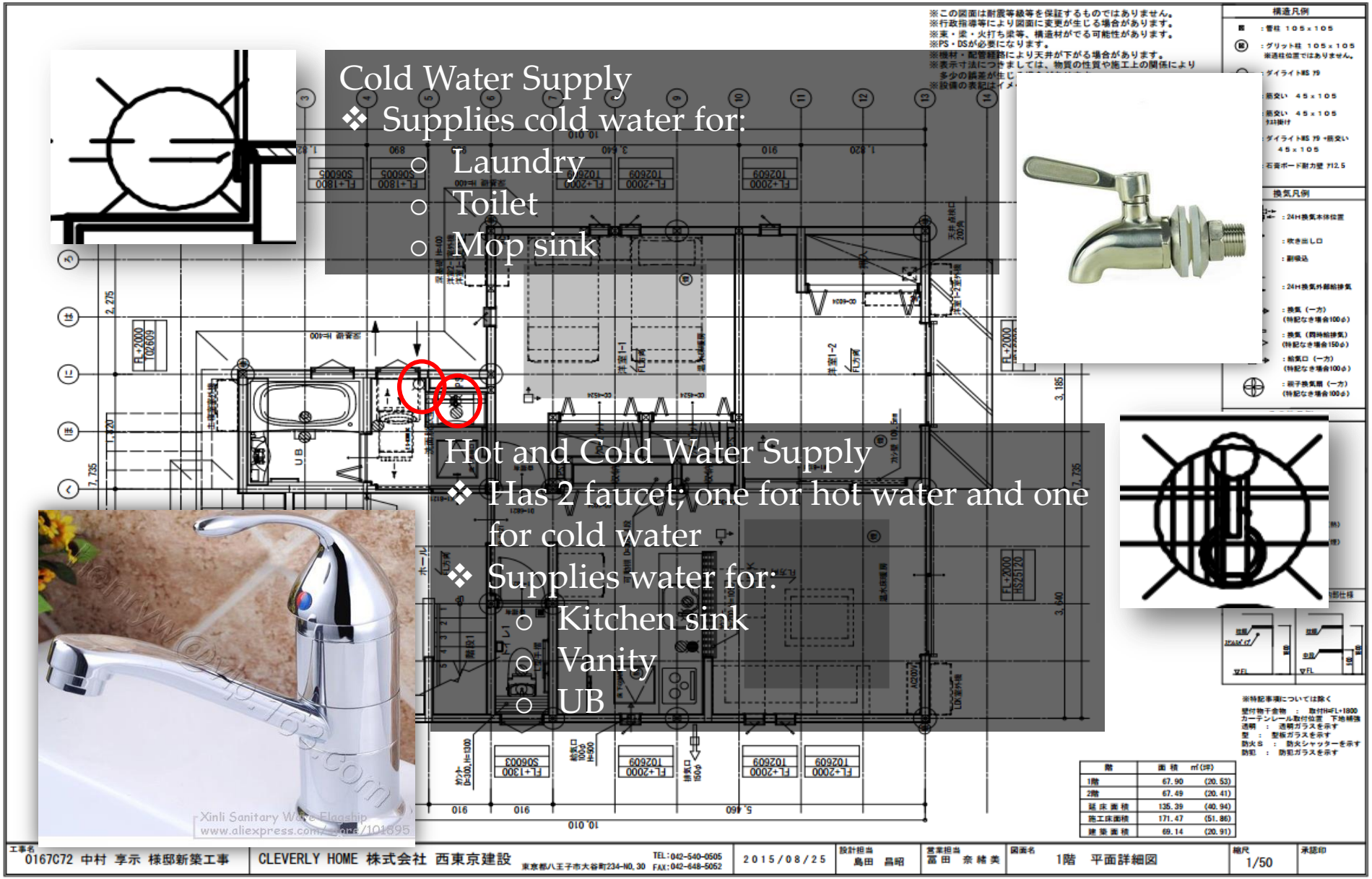
Basic DP – Floor Plan

Prepared by: IDr. Ruth Annalyn Acibar, CAD Supervisor
©Frontier Intermediary Technology, Inc. 2016



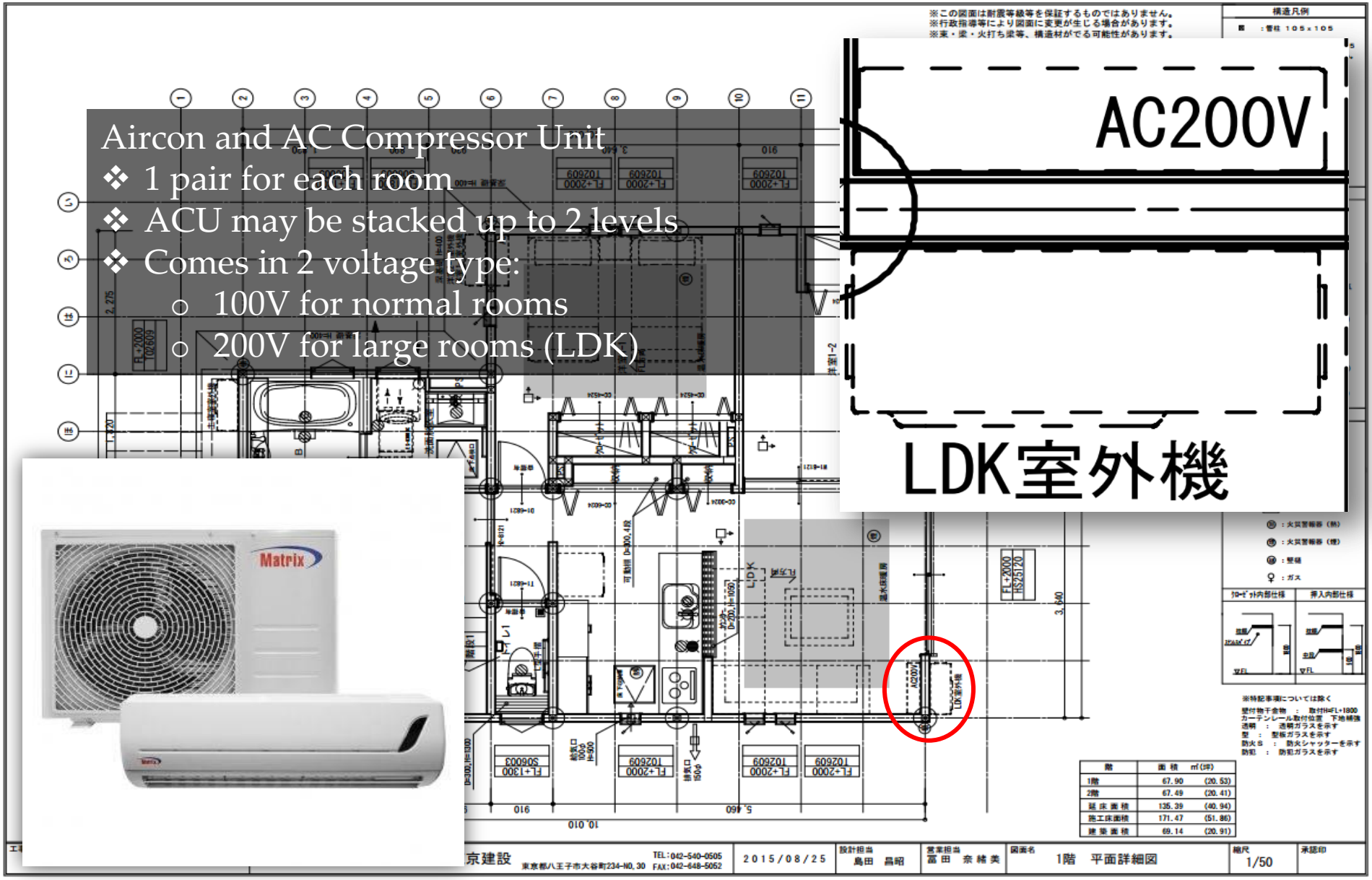
Basic DP – Floor Plan

Prepared by: IDr. Ruth Annalyn Acibar, CAD Supervisor
©Frontier Intermediary Technology, Inc. 2016



Basic DP – Floor Plan

Prepared by: IDr. Ruth Annalyn Acibar, CAD Supervisor
©Frontier Intermediary Technology, Inc. 2016

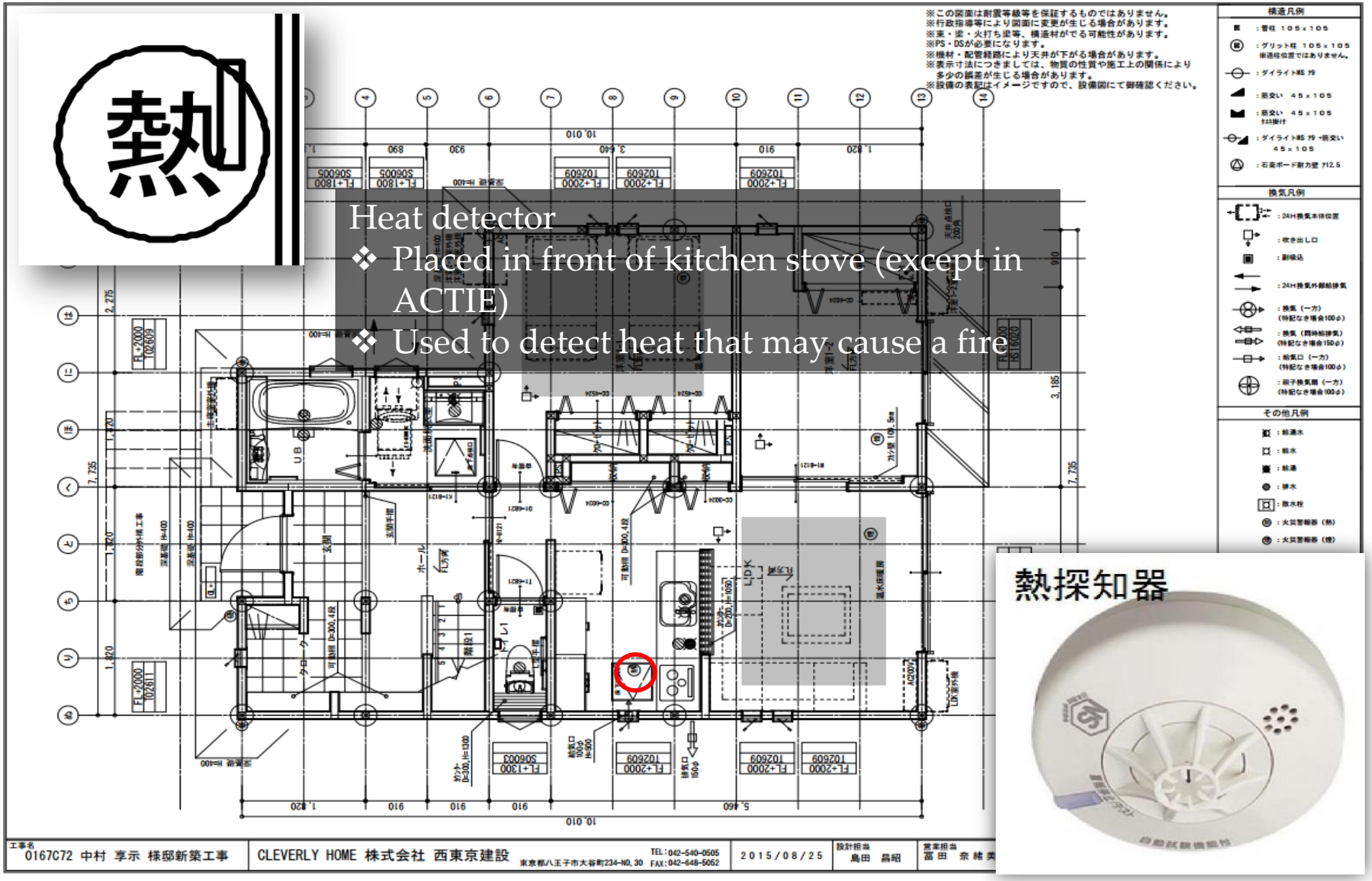


Aircon and AC Compressor Unit

- 1 pair for each room
- ACU may be stacked up to 2 levels
- Comes in 2 voltage type:
  - 100V for normal rooms
  - 200V for large rooms (LDK)

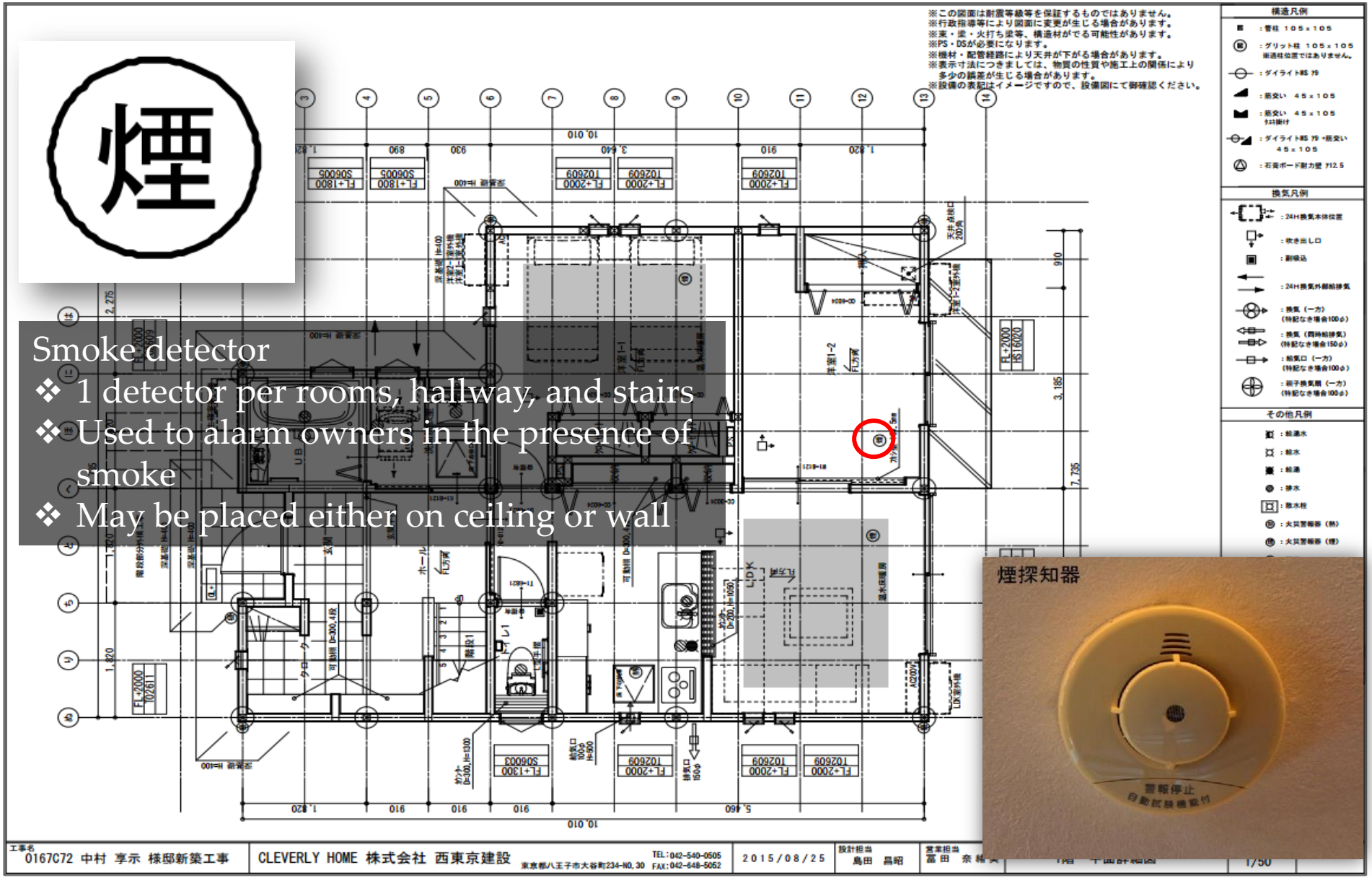
Basic DP – Floor Plan

Prepared by: IDr. Ruth Annalyn Acibar, CAD Supervisor
©Frontier Intermediary Technology, Inc. 2016



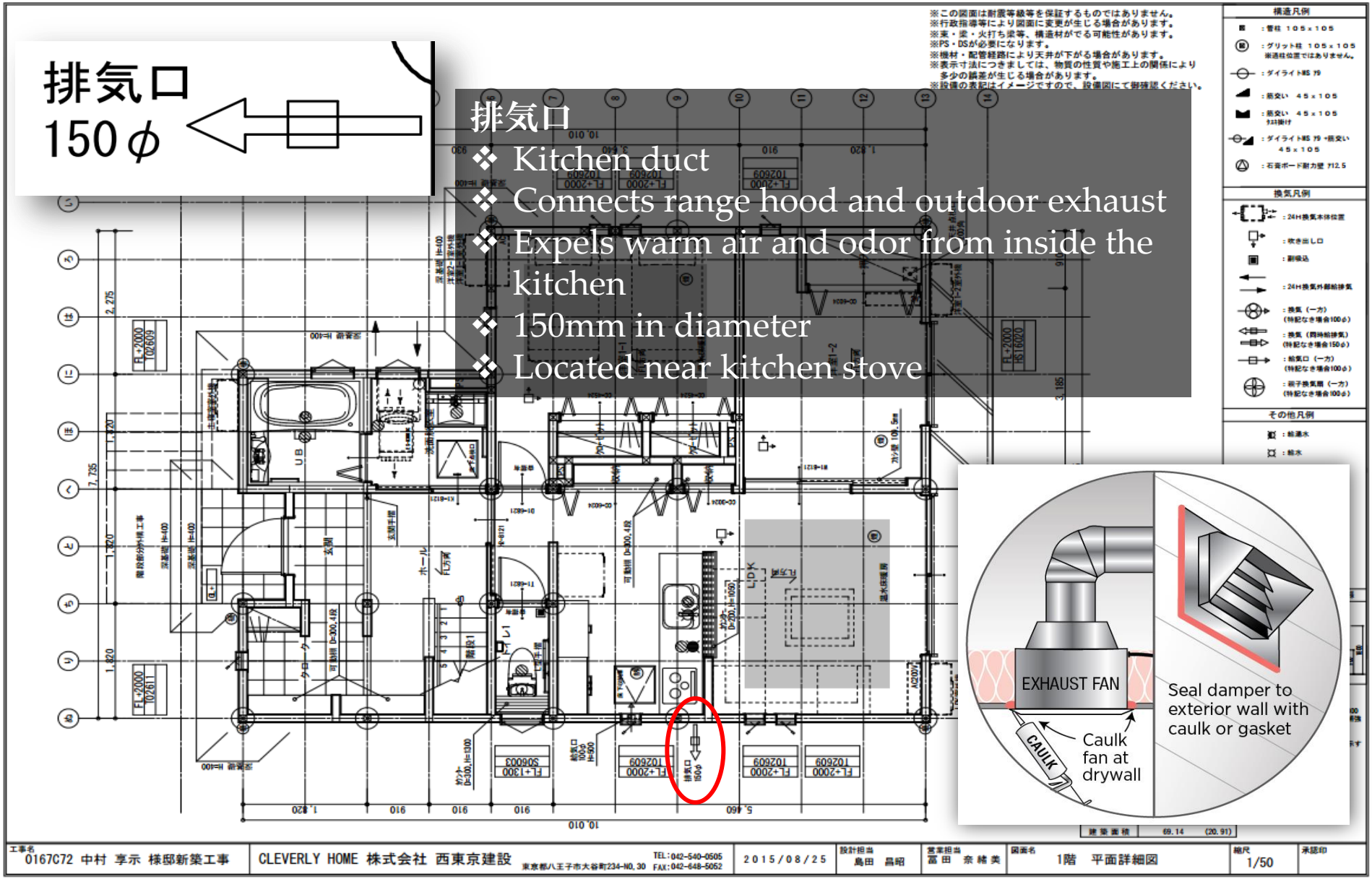
Basic DP – Floor Plan

Prepared by: IDr. Ruth Annalyn Acibar, CAD Supervisor
©Frontier Intermediary Technology, Inc. 2016



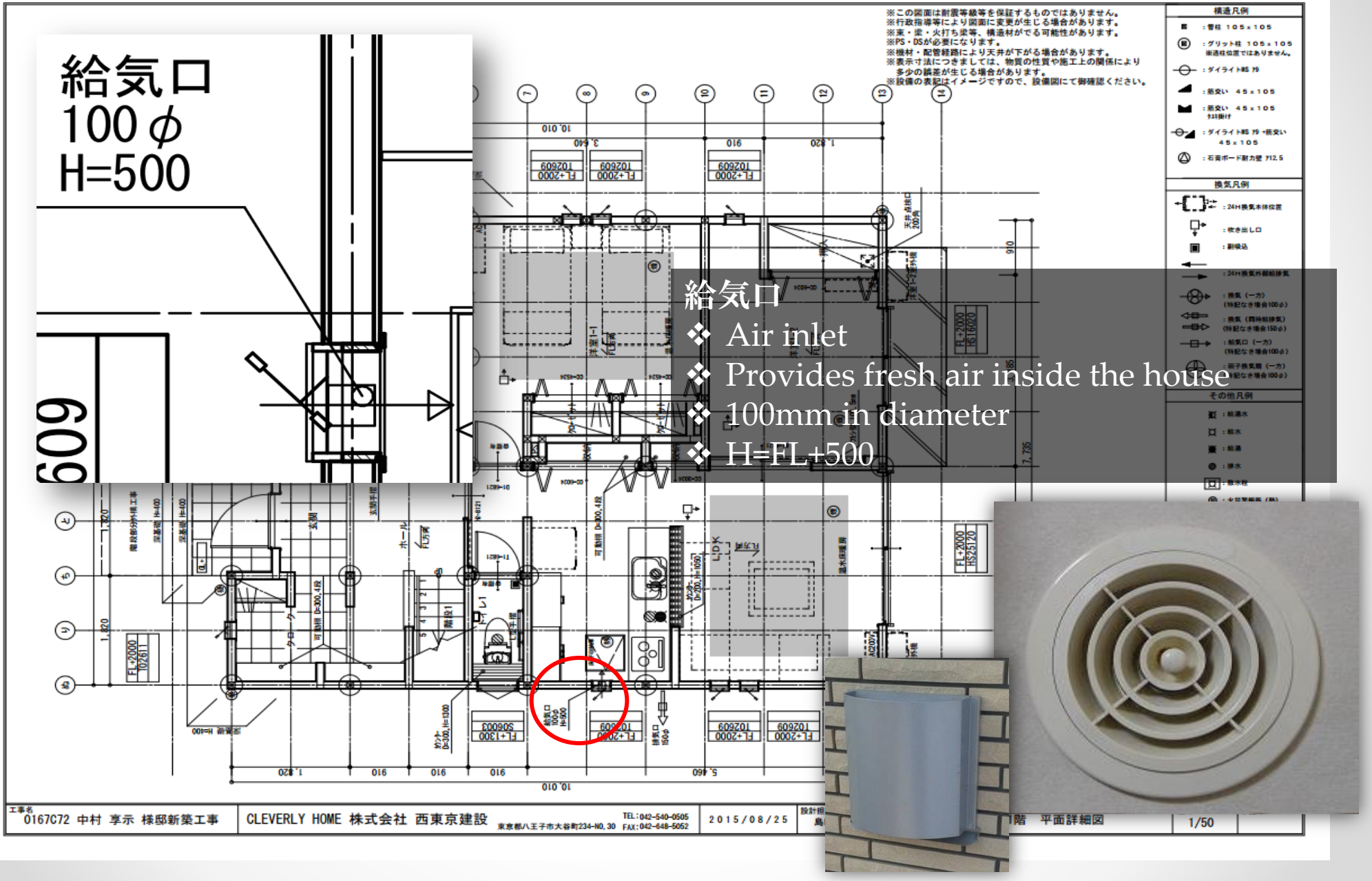
Basic DP – Floor Plan

Prepared by: IDr. Ruth Annalyn Acibar, CAD Supervisor
©Frontier Intermediary Technology, Inc. 2016



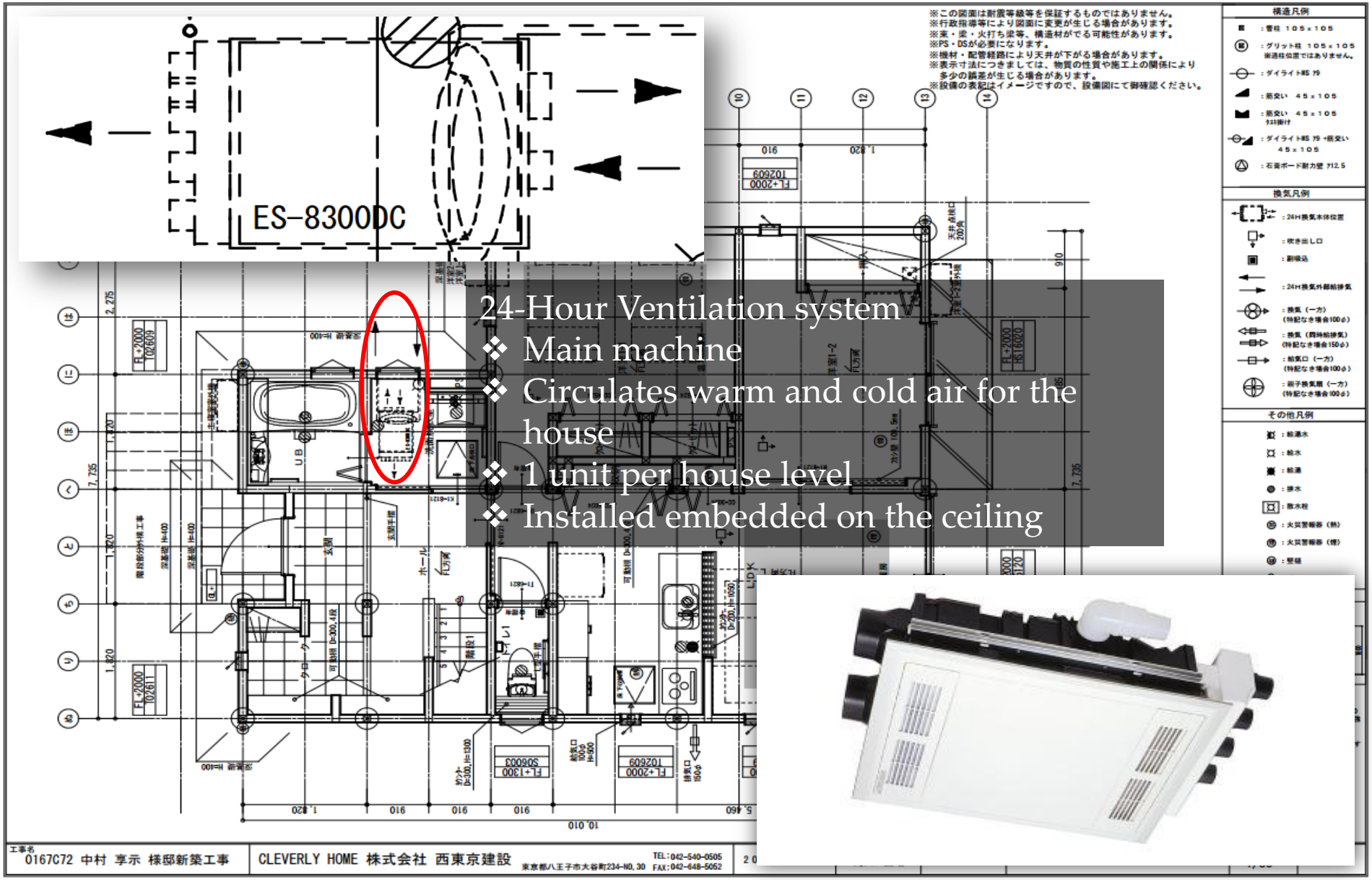
Basic DP – Floor Plan

Prepared by: IDr. Ruth Annalyn Acibar, CAD Supervisor
©Frontier Intermediary Technology, Inc. 2016



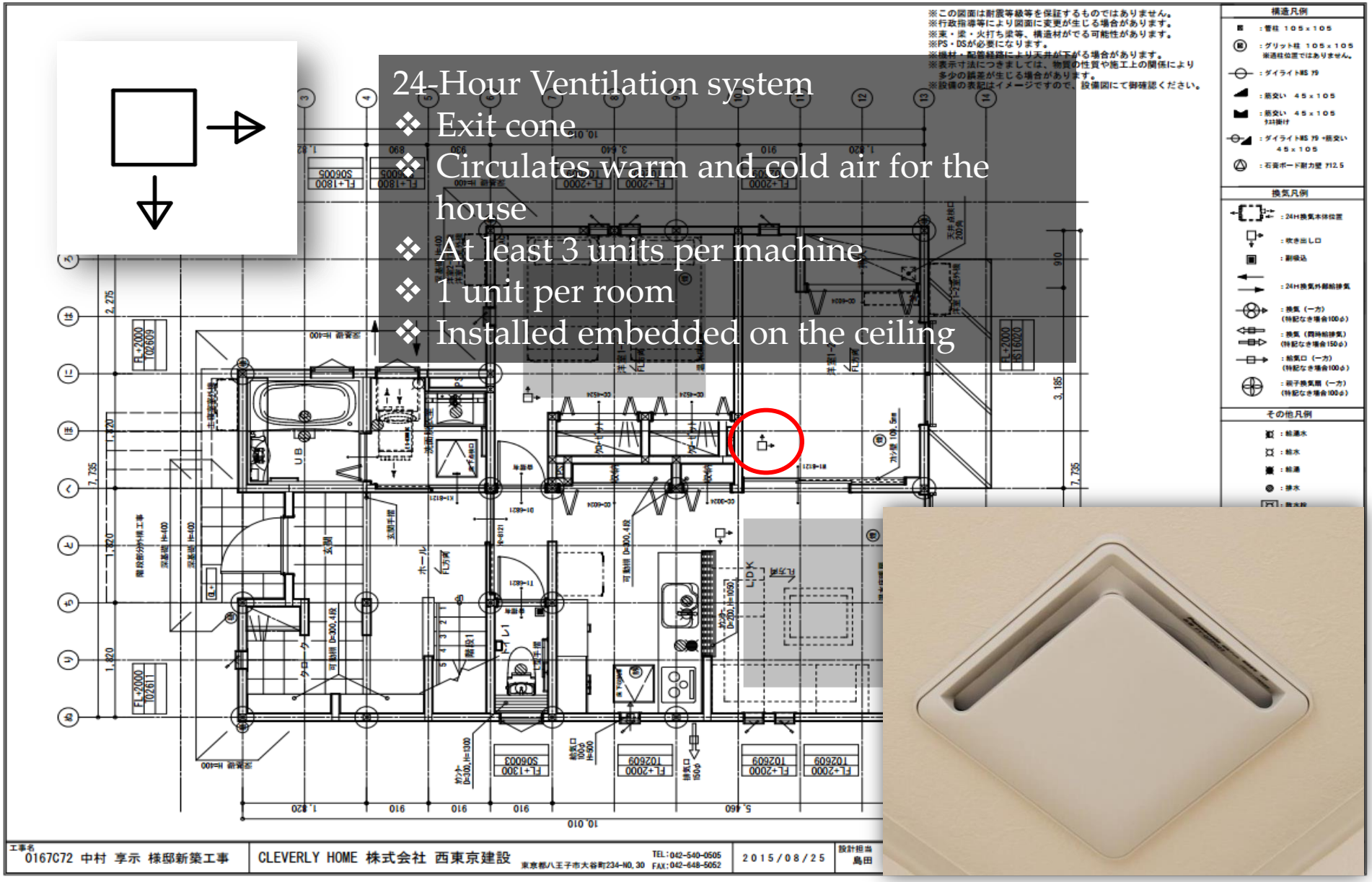
Basic DP – Floor Plan

Prepared by: IDr. Ruth Annalyn Acibar, CAD Supervisor
©Frontier Intermediary Technology, Inc. 2016



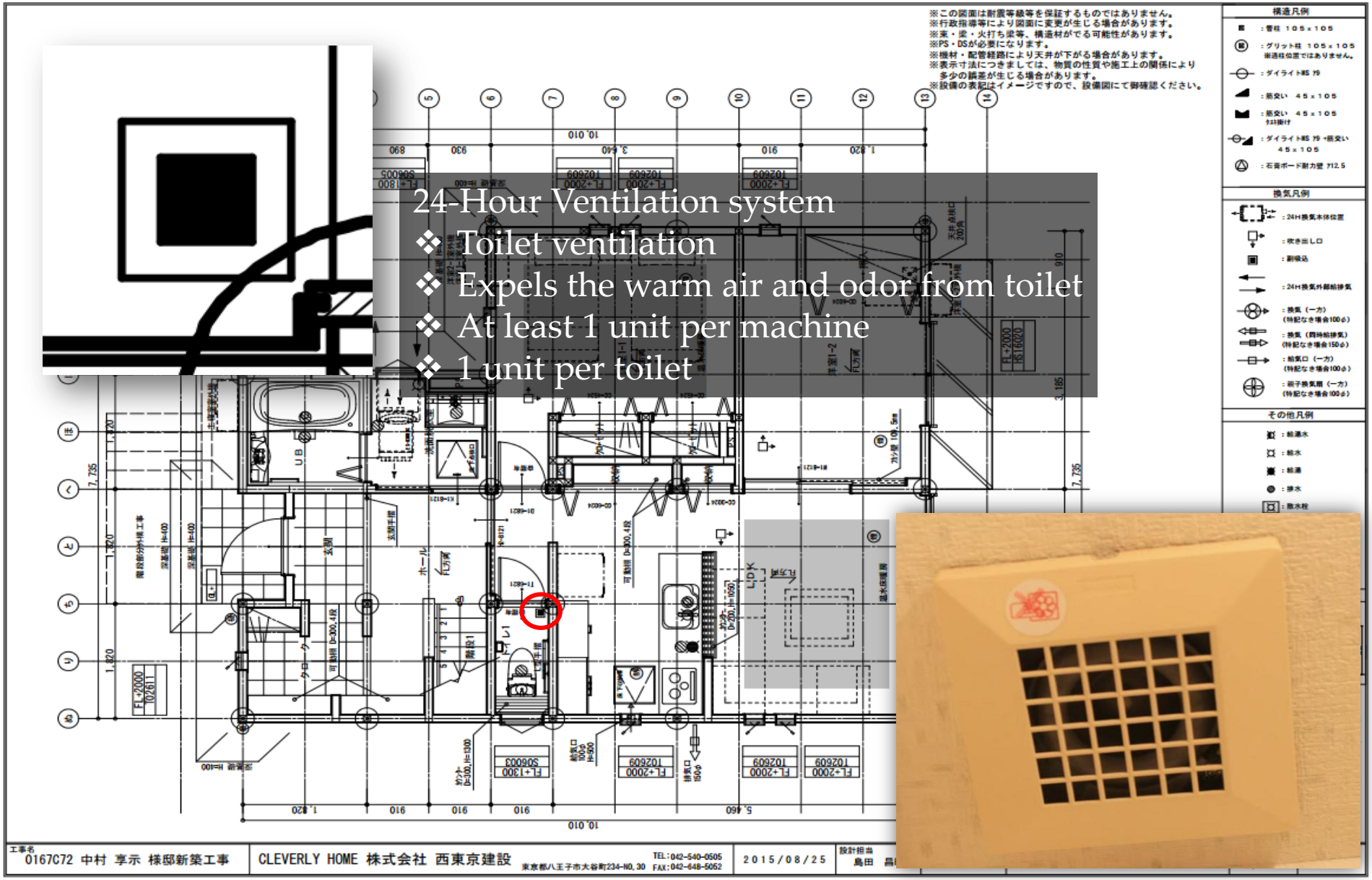
Basic DP – Floor Plan

Prepared by: IDr. Ruth Annalyn Acibar, CAD Supervisor
©Frontier Intermediary Technology, Inc. 2016



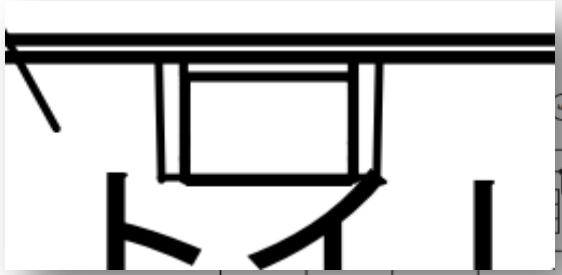
Basic DP – Floor Plan

Prepared by: IDr. Ruth Annalyn Acibar, CAD Supervisor
©Frontier Intermediary Technology, Inc. 2016



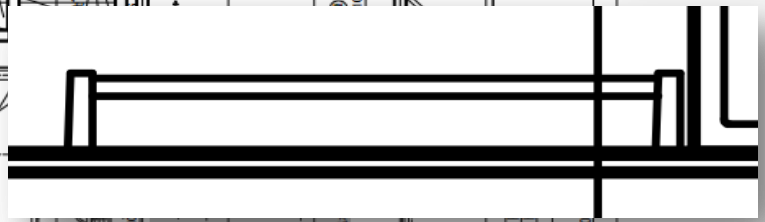
Basic DP – Floor Plan

Prepared by: IDr. Ruth Annalyn Acibar, CAD Supervisor
©Frontier Intermediary Technology, Inc. 2016



Tissue Holder

- 1 holder near water closet
- Must be placed on full (thick) wall

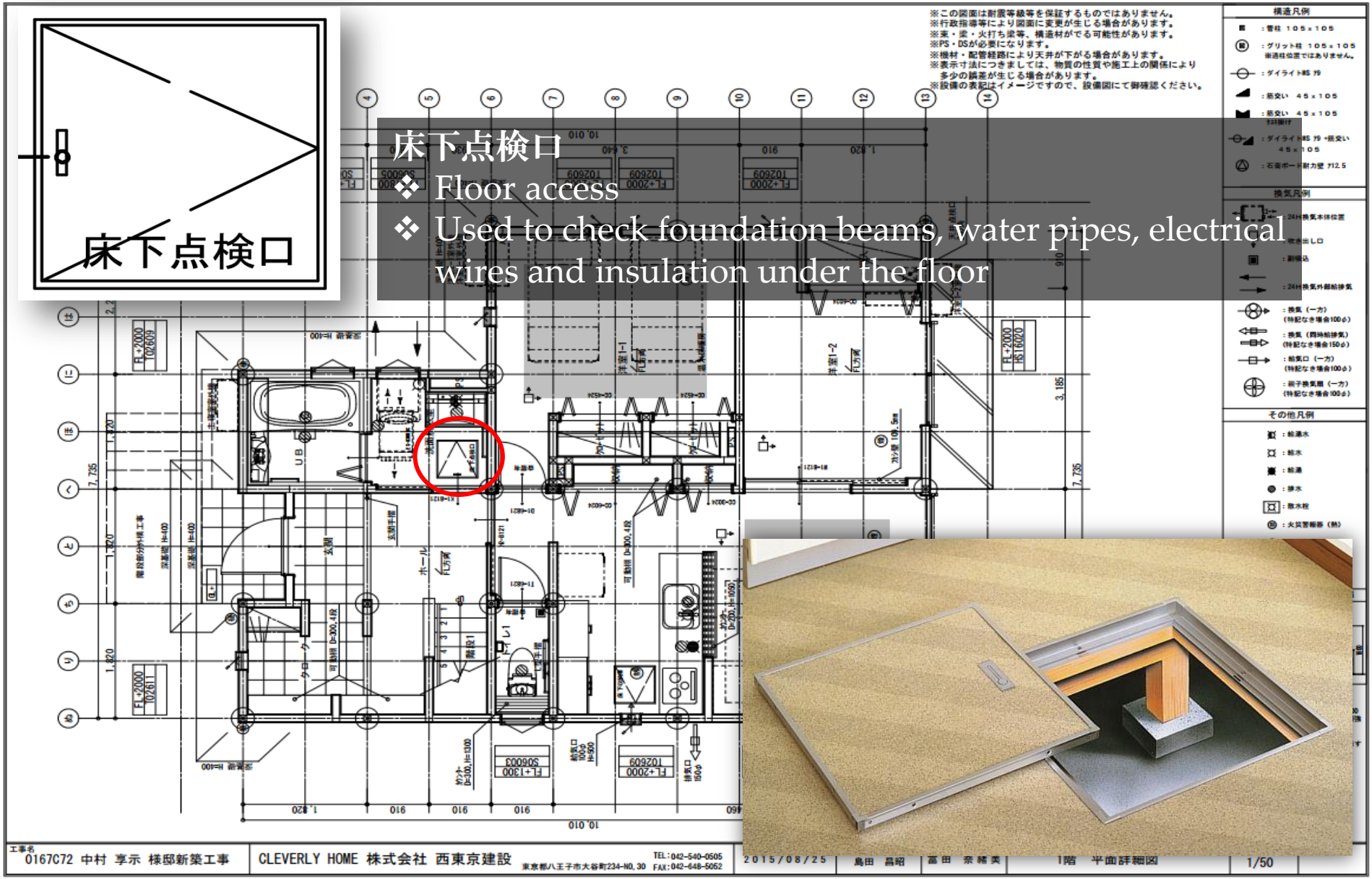


Towel Bar

- 1 bar near water closet
- 1 bar near vanity
  - If wall is too small, can be replaced with towel ring
- Must be placed on full (thick) wall

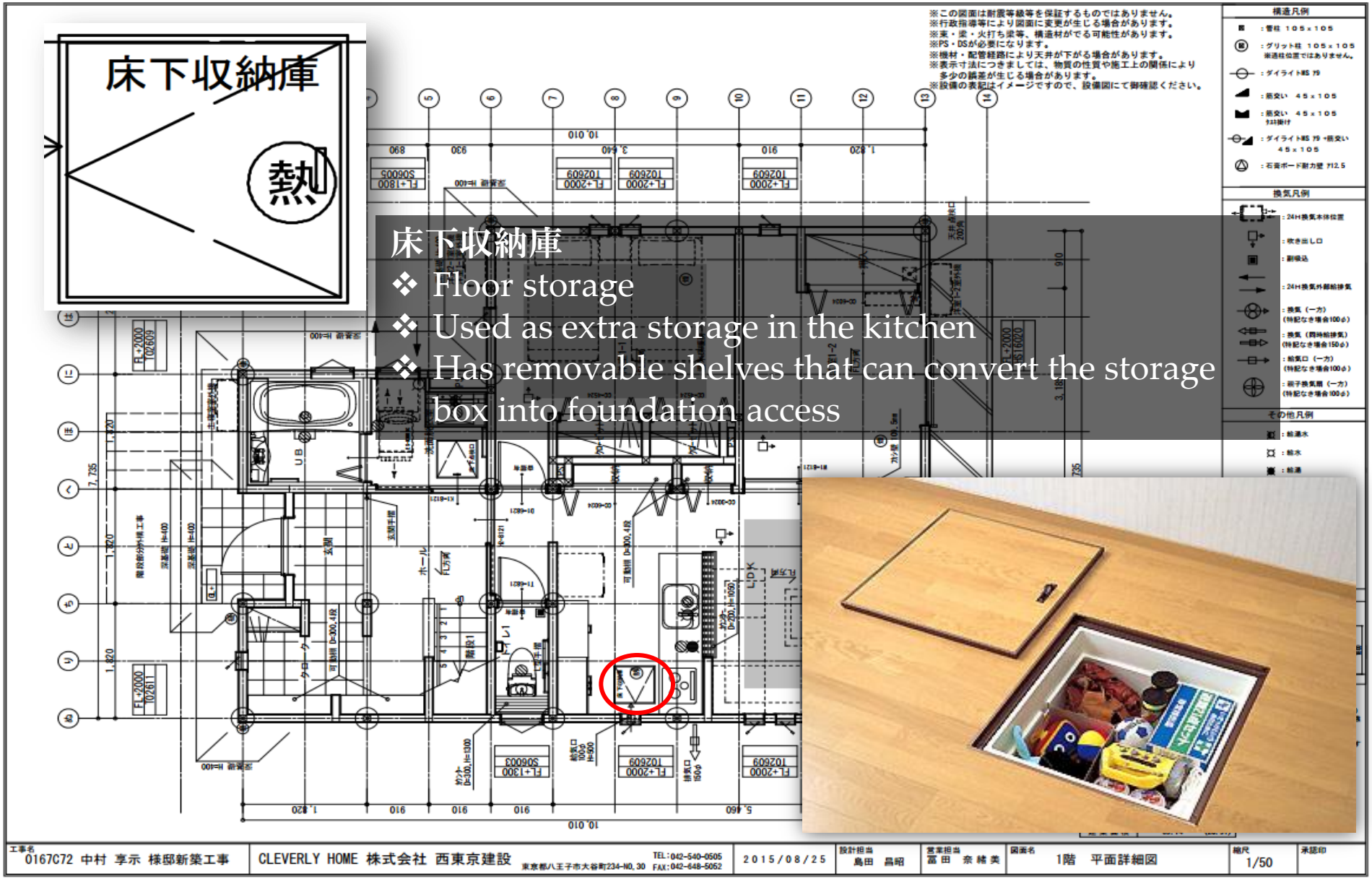
Basic DP – Floor Plan

Prepared by: IDr. Ruth Annalyn Acibar, CAD Supervisor
©Frontier Intermediary Technology, Inc. 2016



Basic DP – Floor Plan

Prepared by: IDr. Ruth Annalyn Acibar, CAD Supervisor
©Frontier Intermediary Technology, Inc. 2016

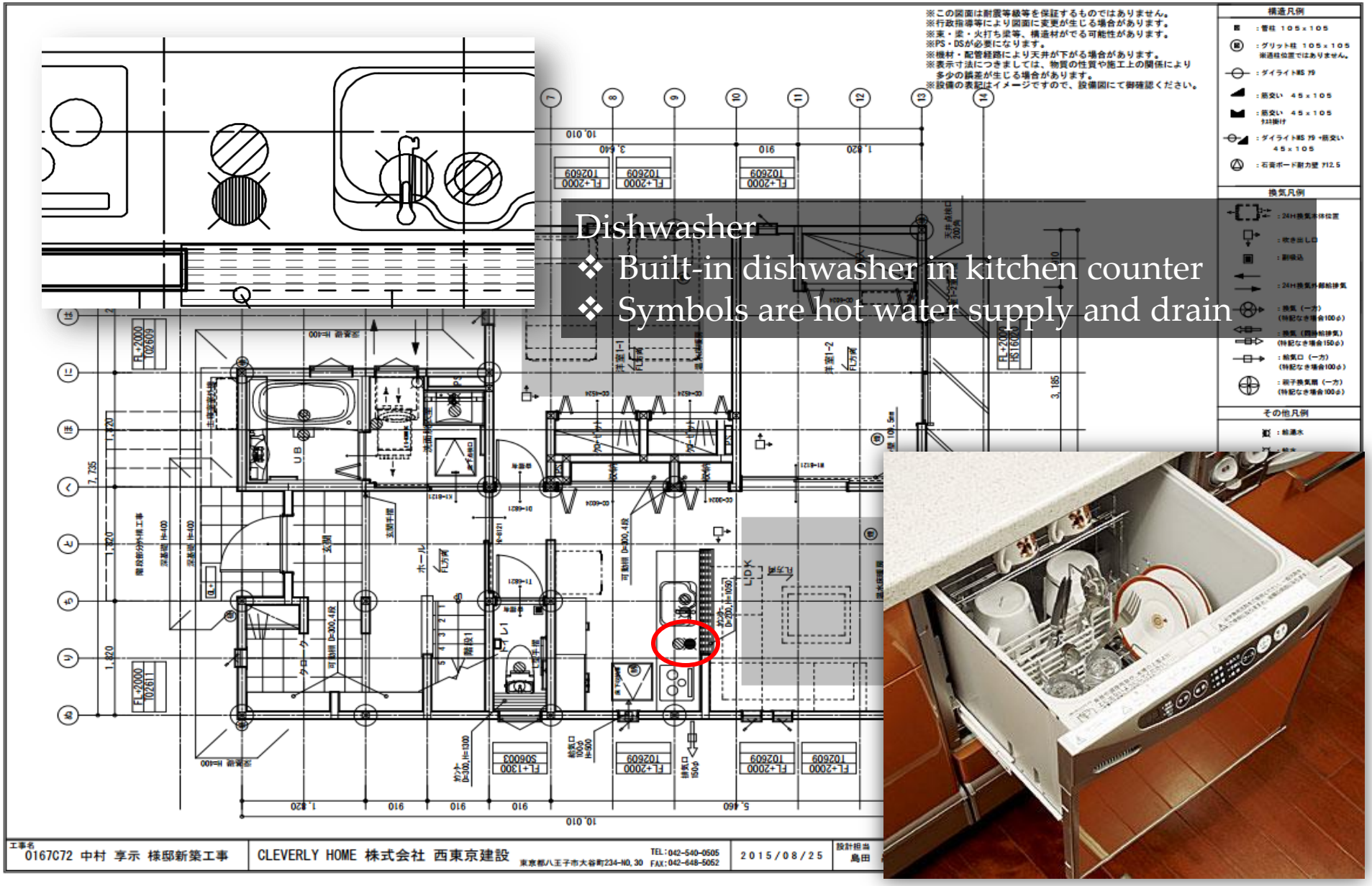


床下収納庫

- Floor storage
- Used as extra storage in the kitchen
- Has removable shelves that can convert the storage box into foundation access

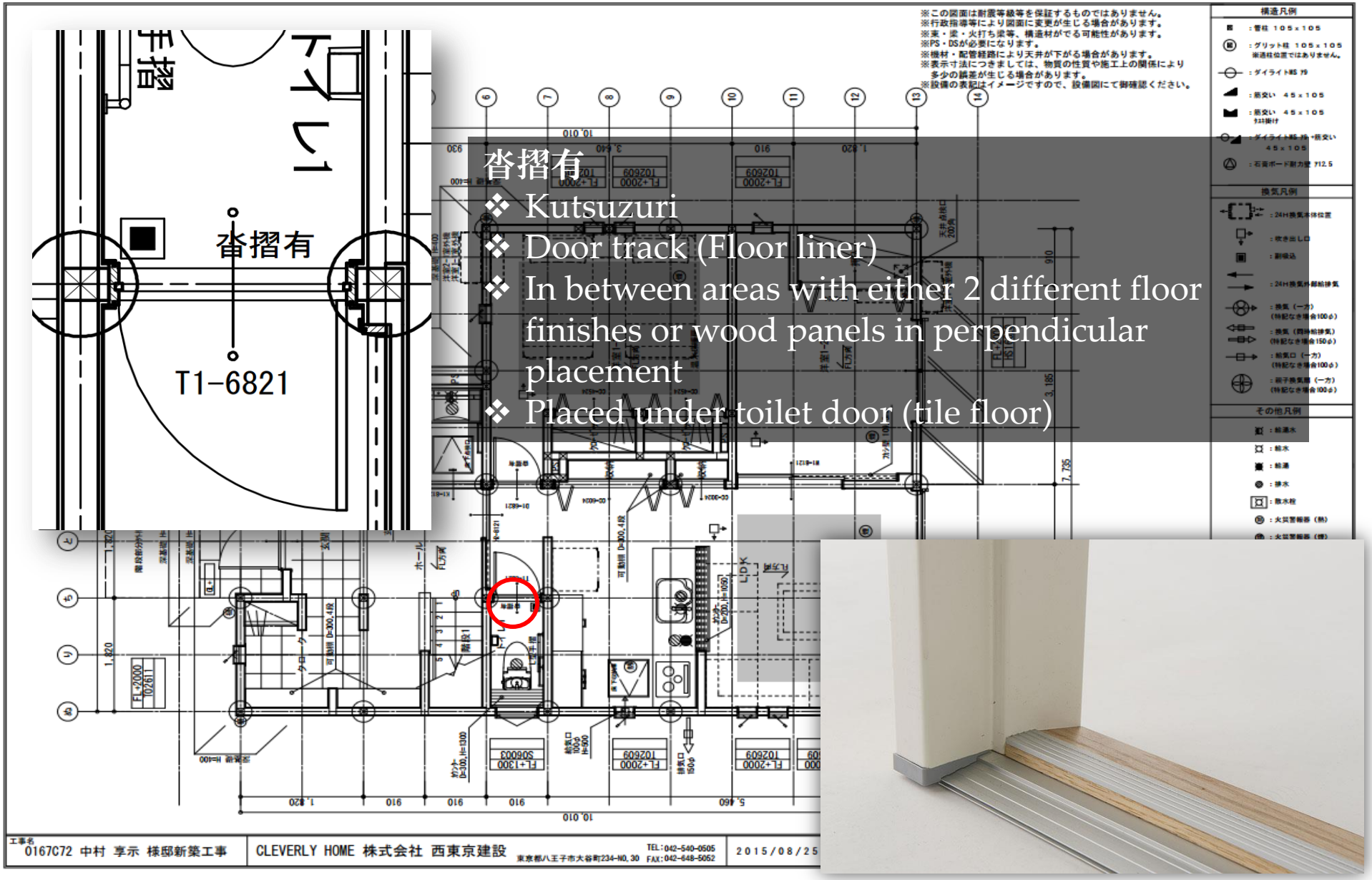
Basic DP – Floor Plan

Prepared by: IDr. Ruth Annalyn Acibar, CAD Supervisor
©Frontier Intermediary Technology, Inc. 2016



Basic DP – Floor Plan

Prepared by: IDr. Ruth Annalyn Acibar, CAD Supervisor
©Frontier Intermediary Technology, Inc. 2016

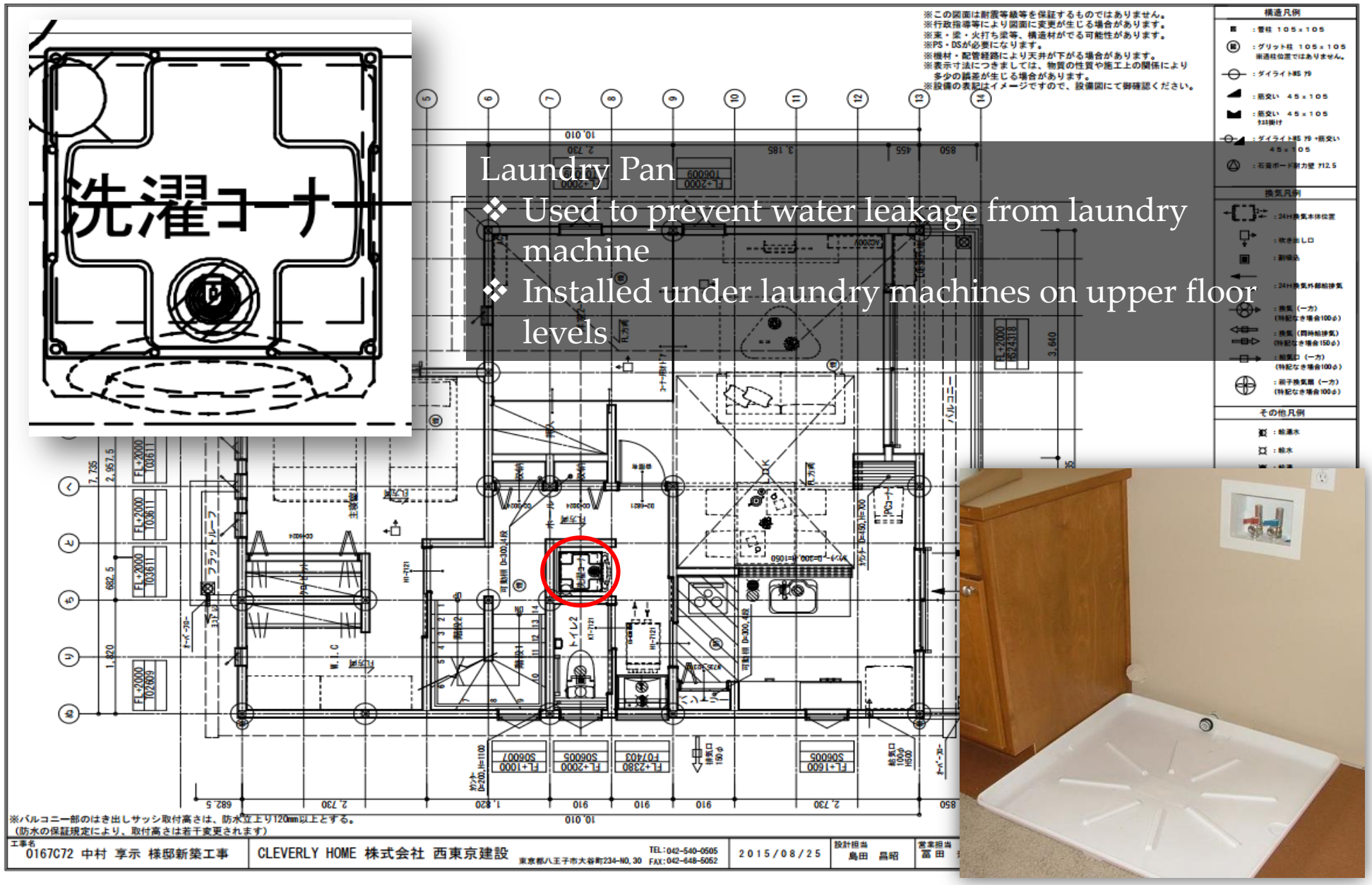


沓摺有

- Kutsuzuri
- Door track (Floor liner)
- In between areas with either 2 different floor finishes or wood panels in perpendicular placement
- Placed under toilet door (tile floor)

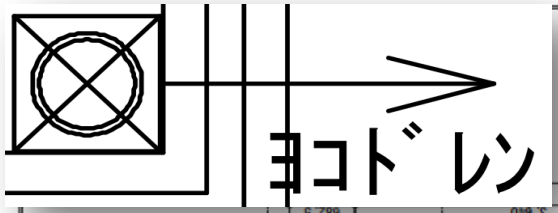
Basic DP – Floor Plan

Prepared by: IDr. Ruth Annalyn Acibar, CAD Supervisor
©Frontier Intermediary Technology, Inc. 2016



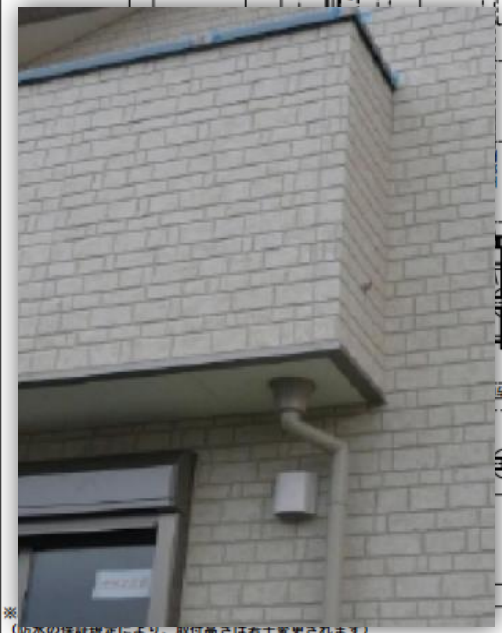
Basic DP – Floor Plan

Prepared by: IDr. Ruth Annalyn Acibar, CAD Supervisor
©Frontier Intermediary Technology, Inc. 2016



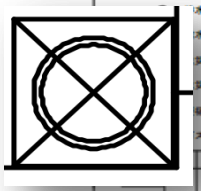
ヨコドレン

- Side drain
- Expels rainwater to prevent clogs in balcony
- Normally used when balcony is in front of the house



タテドレン

- Down drain
- Expels rainwater to prevent clogs in balcony
- Installed under balcony floor

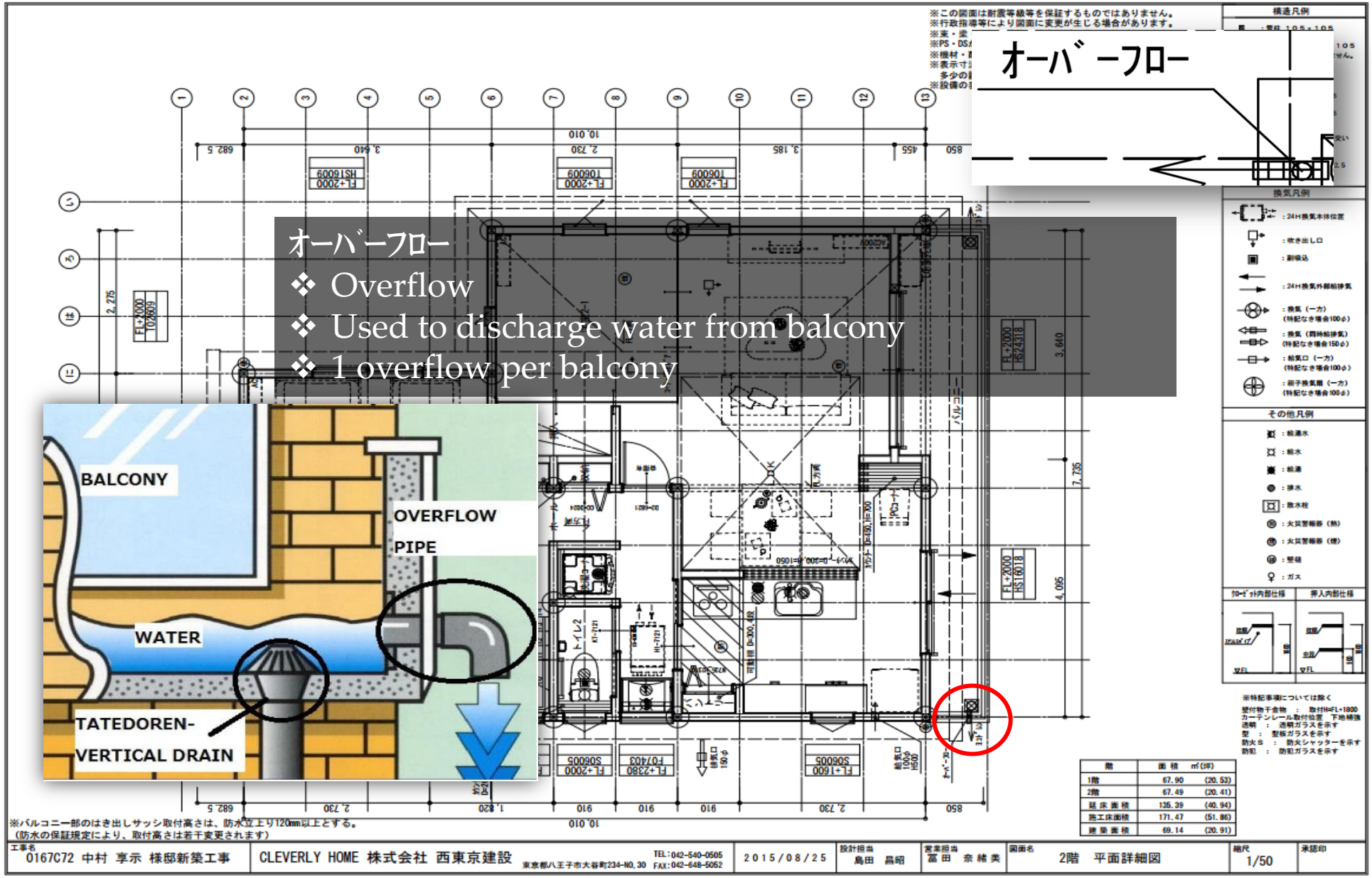


階	面積	㎡(坪)
1階	67.90	(20.53)
2階	67.49	(20.41)
延床面積	135.39	(40.94)
施工床面積	171.47	(51.86)
建築面積	69.14	(20.91)

工事名		設計担当	営業担当	図面名	縮尺	承認印
0167C72 中村 享示 様邸新築工事	CLEVERLY HOME 株式会社 西東京建設 TEL:042-540-0505 東京都八王子市大谷町234-N0.30 FAX:042-648-5052	2015/08/25	島田 昌昭	富田 奈緒美	2階 平面詳細図	1/50

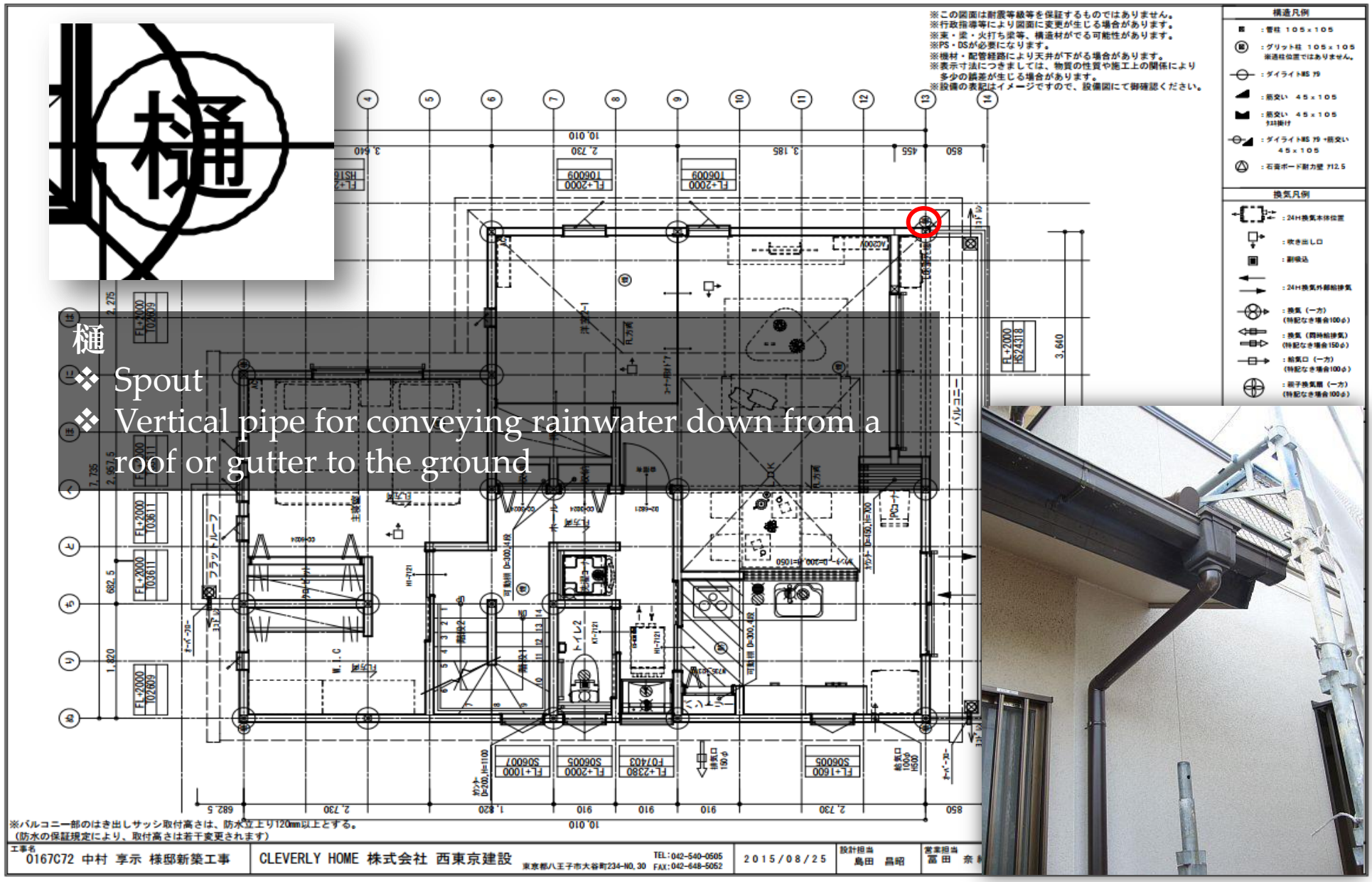
Basic DP – Floor Plan

Prepared by: IDr. Ruth Annalyn Acibar, CAD Supervisor
©Frontier Intermediary Technology, Inc. 2016



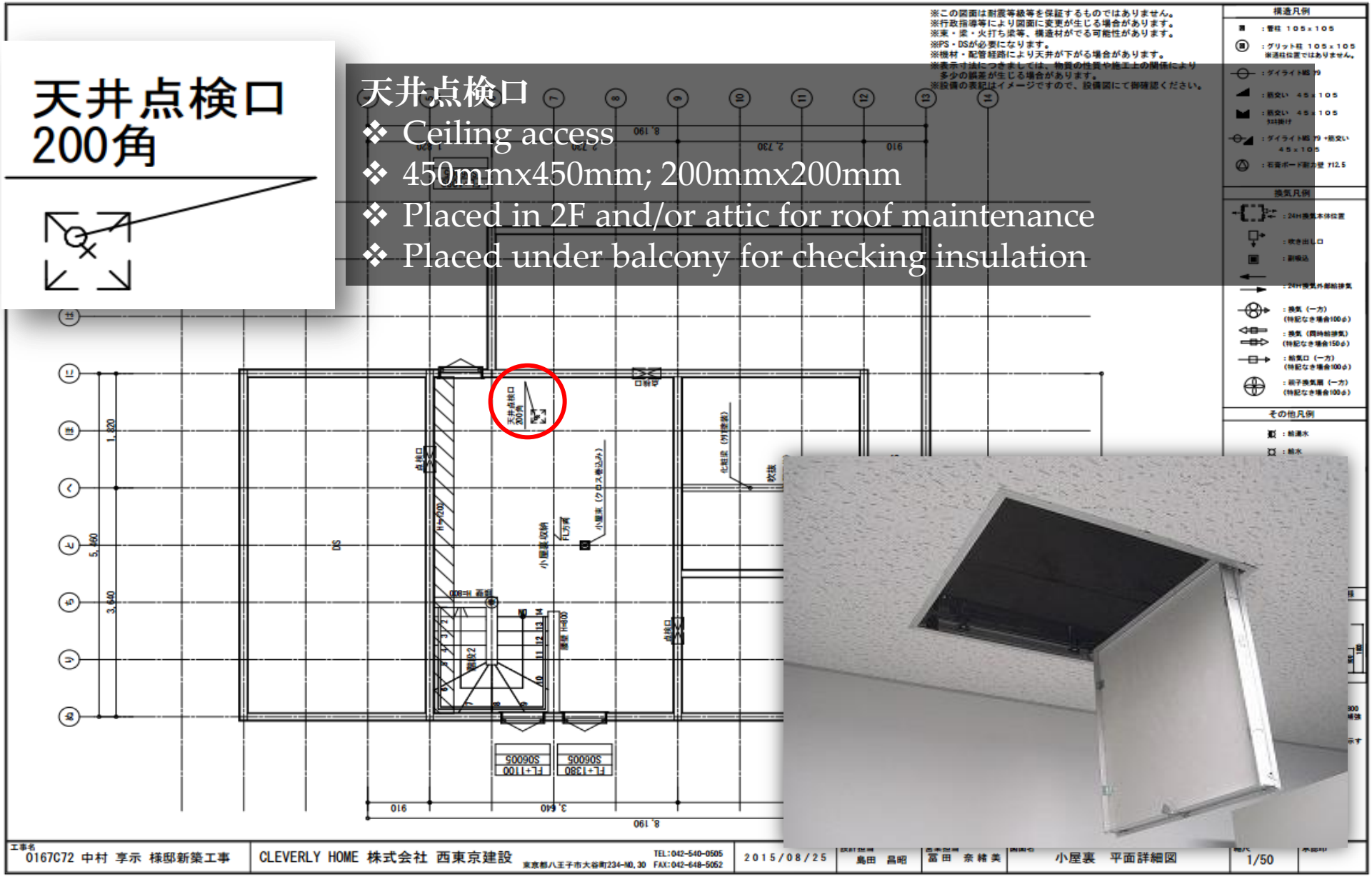
Basic DP – Floor Plan

Prepared by: IDr. Ruth Annalyn Acibar, CAD Supervisor
©Frontier Intermediary Technology, Inc. 2016



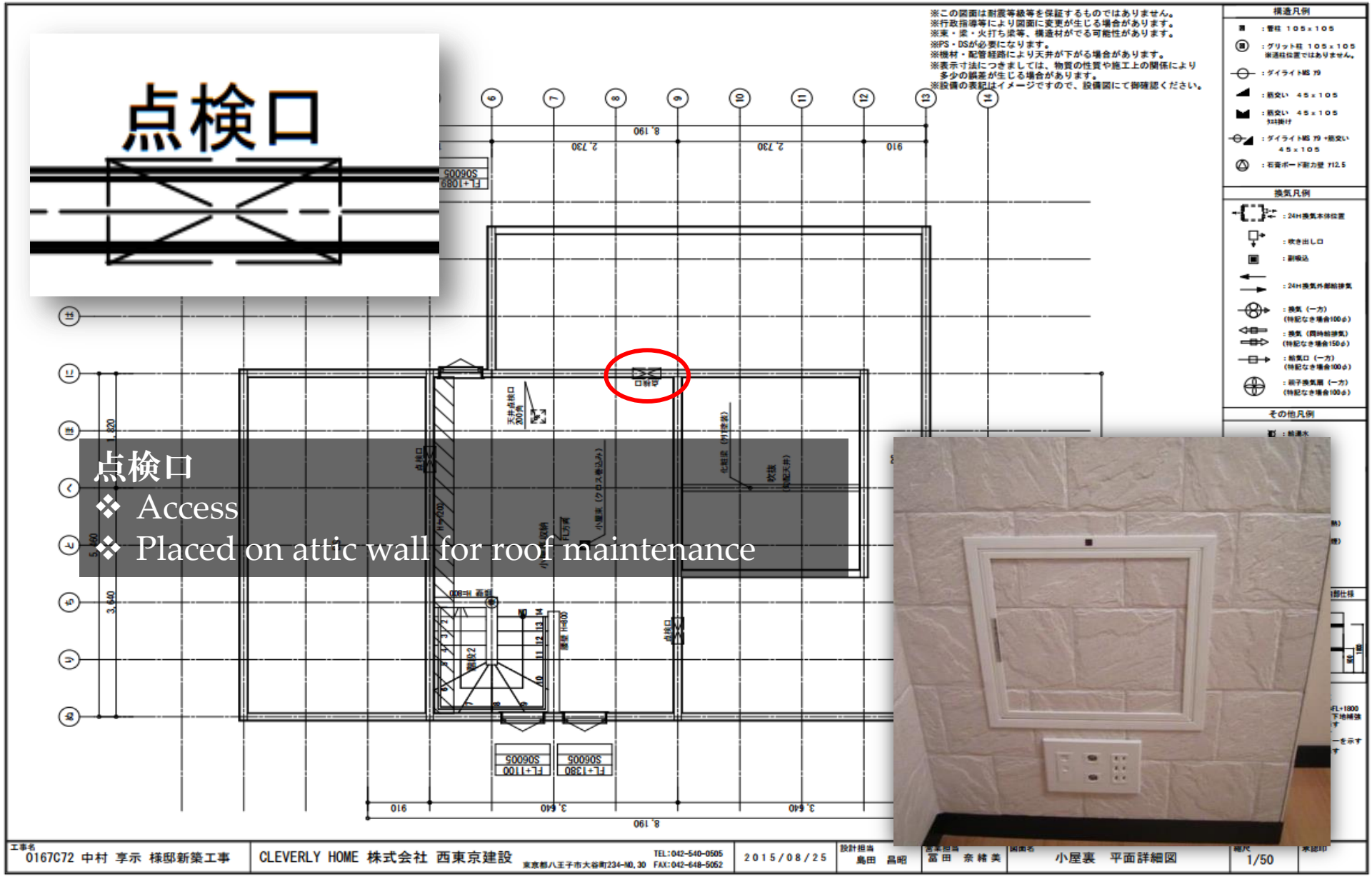
Basic DP – Floor Plan

Prepared by: IDr. Ruth Annalyn Acibar, CAD Supervisor
©Frontier Intermediary Technology, Inc. 2016



Basic DP – Floor Plan

Prepared by: IDr. Ruth Annalyn Acibar, CAD Supervisor
©Frontier Intermediary Technology, Inc. 2016

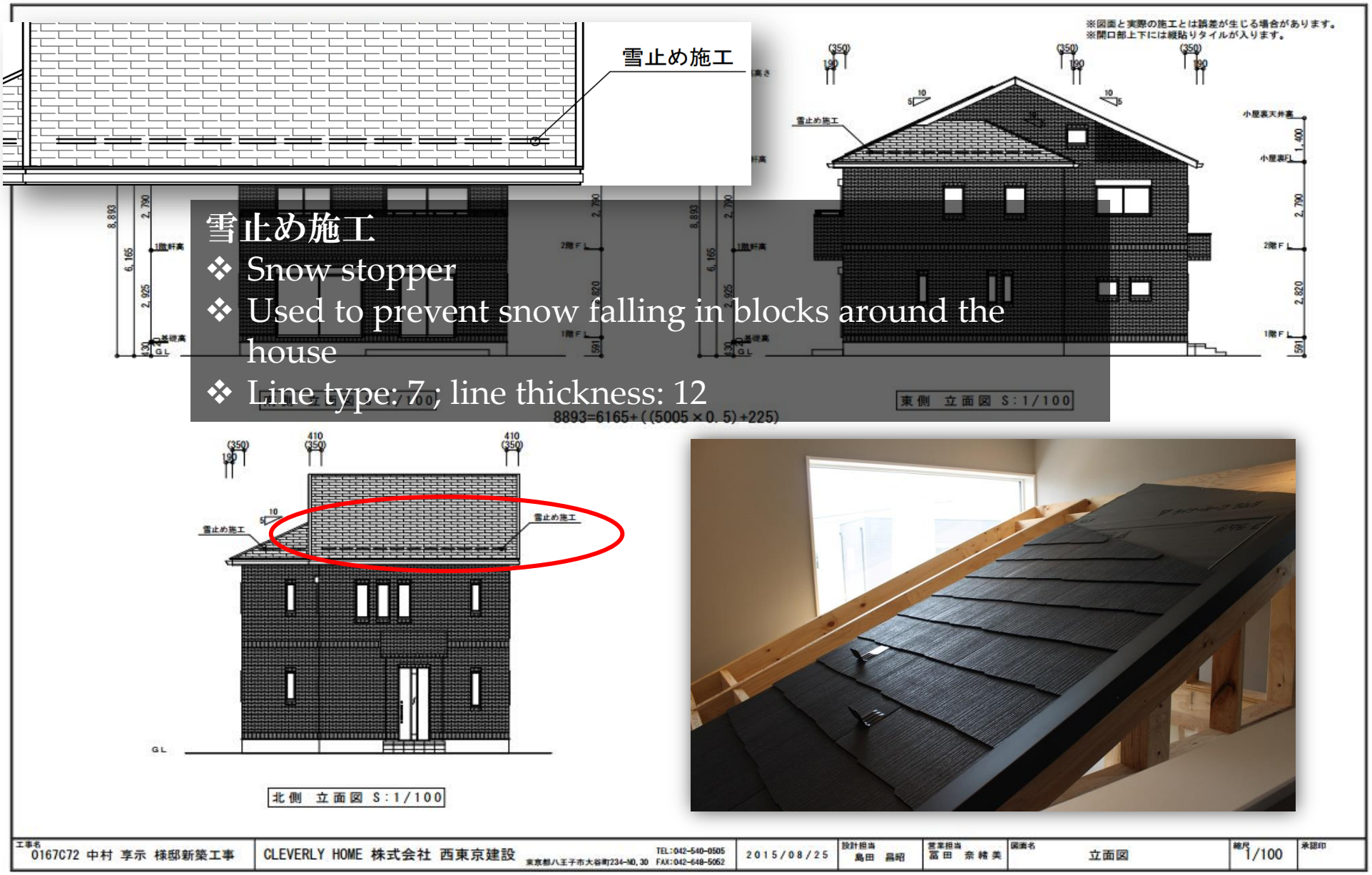


Prepared by: IDr. Ruth Annalyn Acibar, CAD Supervisor
©Frontier Intermediary Technology, Inc. 2016

ELEVATION PLAN

Basic DP – Elevation Plan

Prepared by: IDr. Ruth Annalyn Acibar, CAD Supervisor
©Frontier Intermediary Technology, Inc. 2016

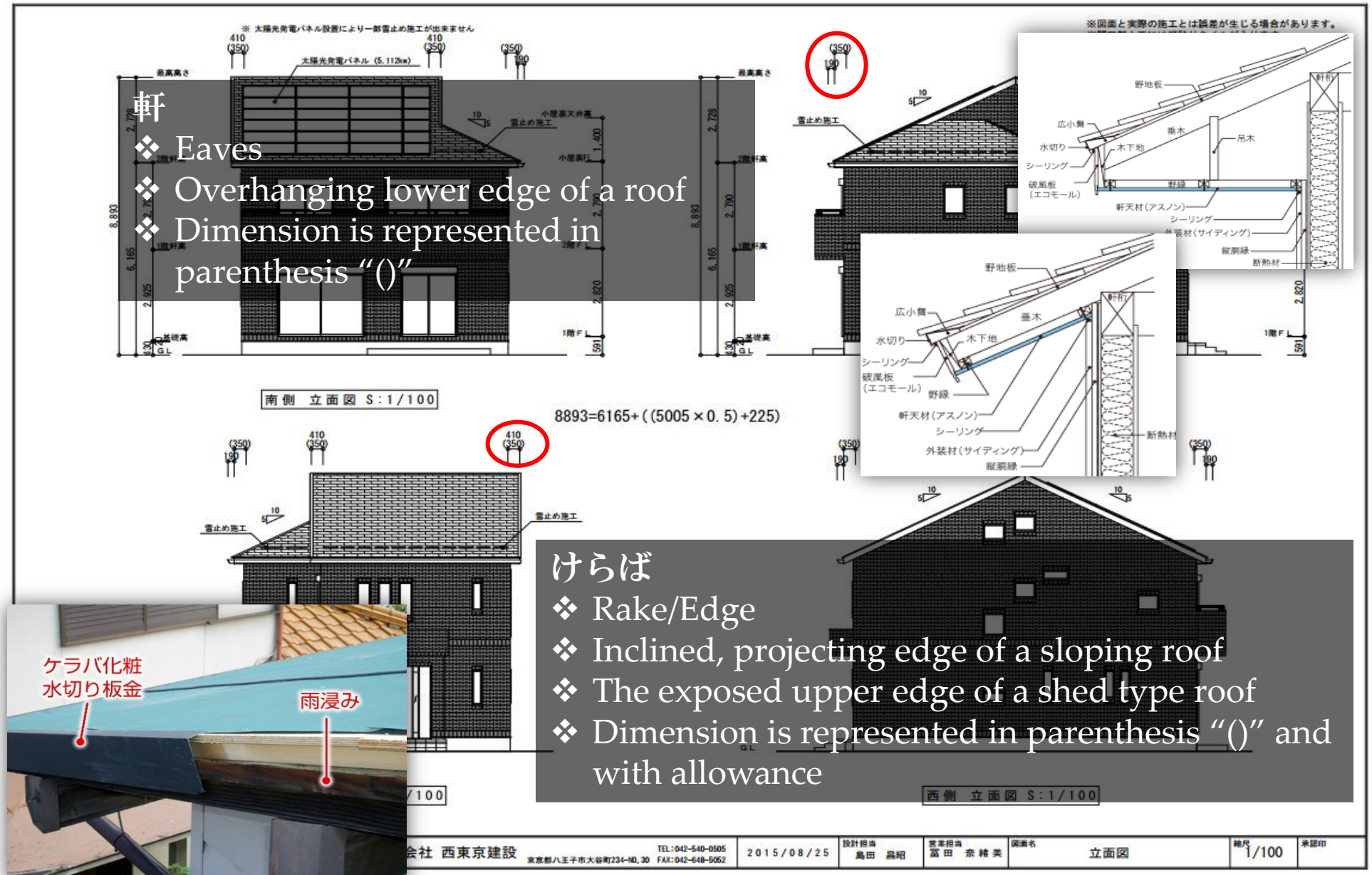


雪止め施工

- Snow stopper
- Used to prevent snow falling in blocks around the house
- Line type: 7 ; line thickness: 12

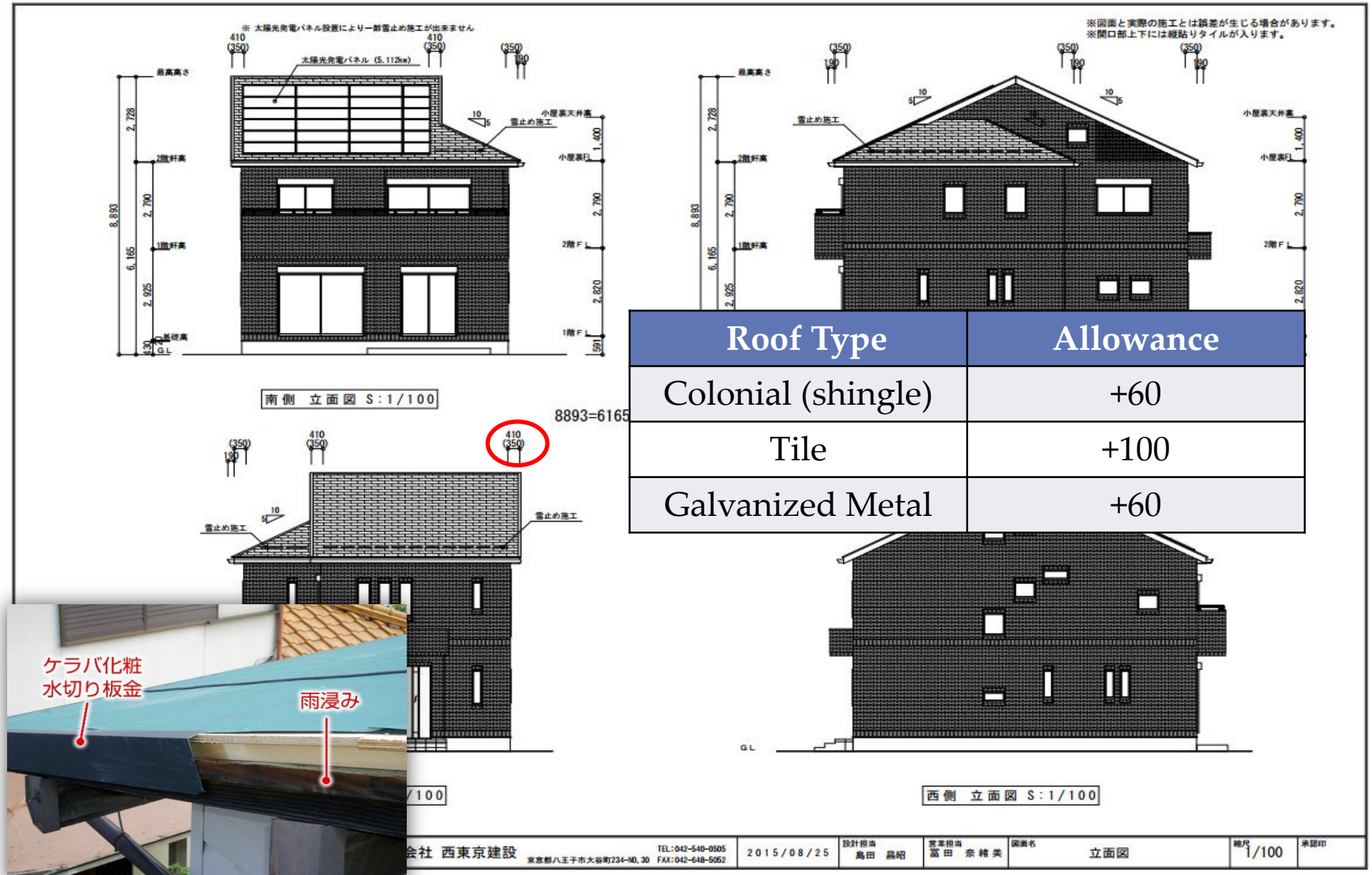
Basic DP – Elevation Plan

Prepared by: IDr. Ruth Annalyn Acibar, CAD Supervisor
©Frontier Intermediary Technology, Inc. 2016



Basic DP – Elevation Plan

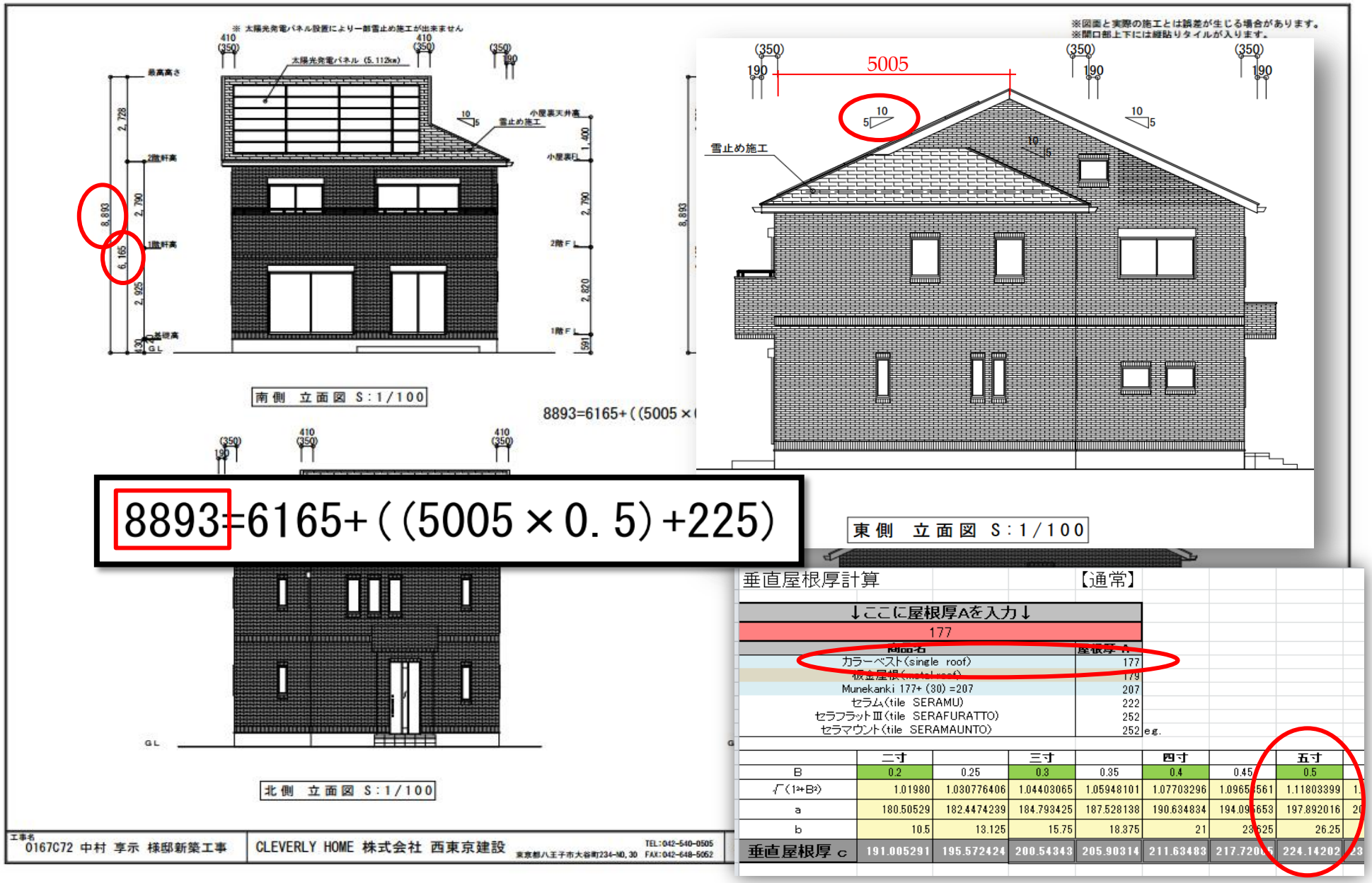
Prepared by: IDr. Ruth Annalyn Acibar, CAD Supervisor
©Frontier Intermediary Technology, Inc. 2016



Roof Type	Allowance
Colonial (shingle)	+60
Tile	+100
Galvanized Metal	+60

Basic DP – Elevation Plan

Prepared by: IDr. Ruth Annalyn Acibar, CAD Supervisor
©Frontier Intermediary Technology, Inc. 2016



Prepared by: IDr. Ruth Annalyn Acibar, CAD Supervisor
©Frontier Intermediary Technology, Inc. 2016

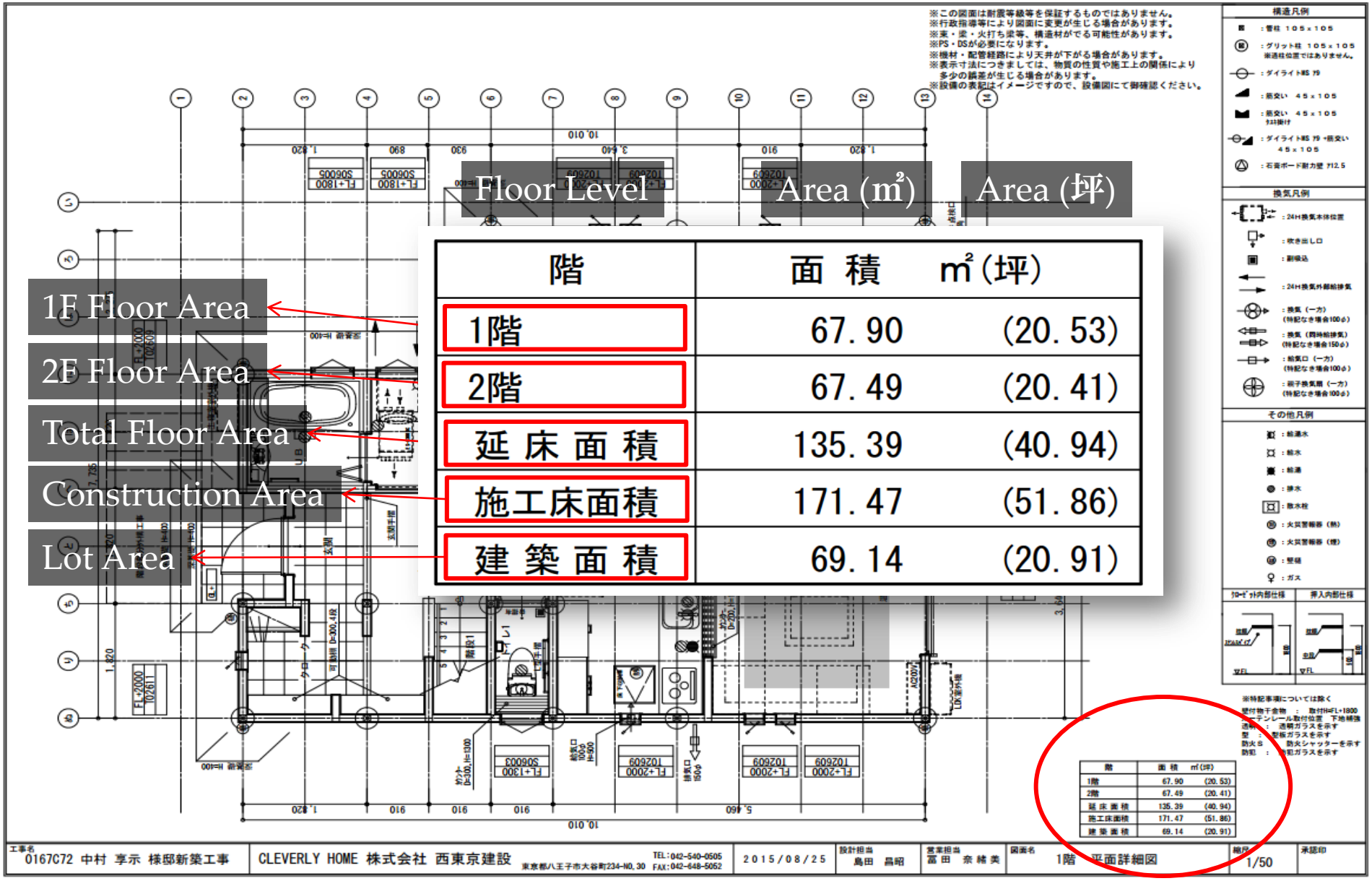
AREAS

FIT INC.

Frontier Intermediary Technology , Inc.

Basic DP – Areas

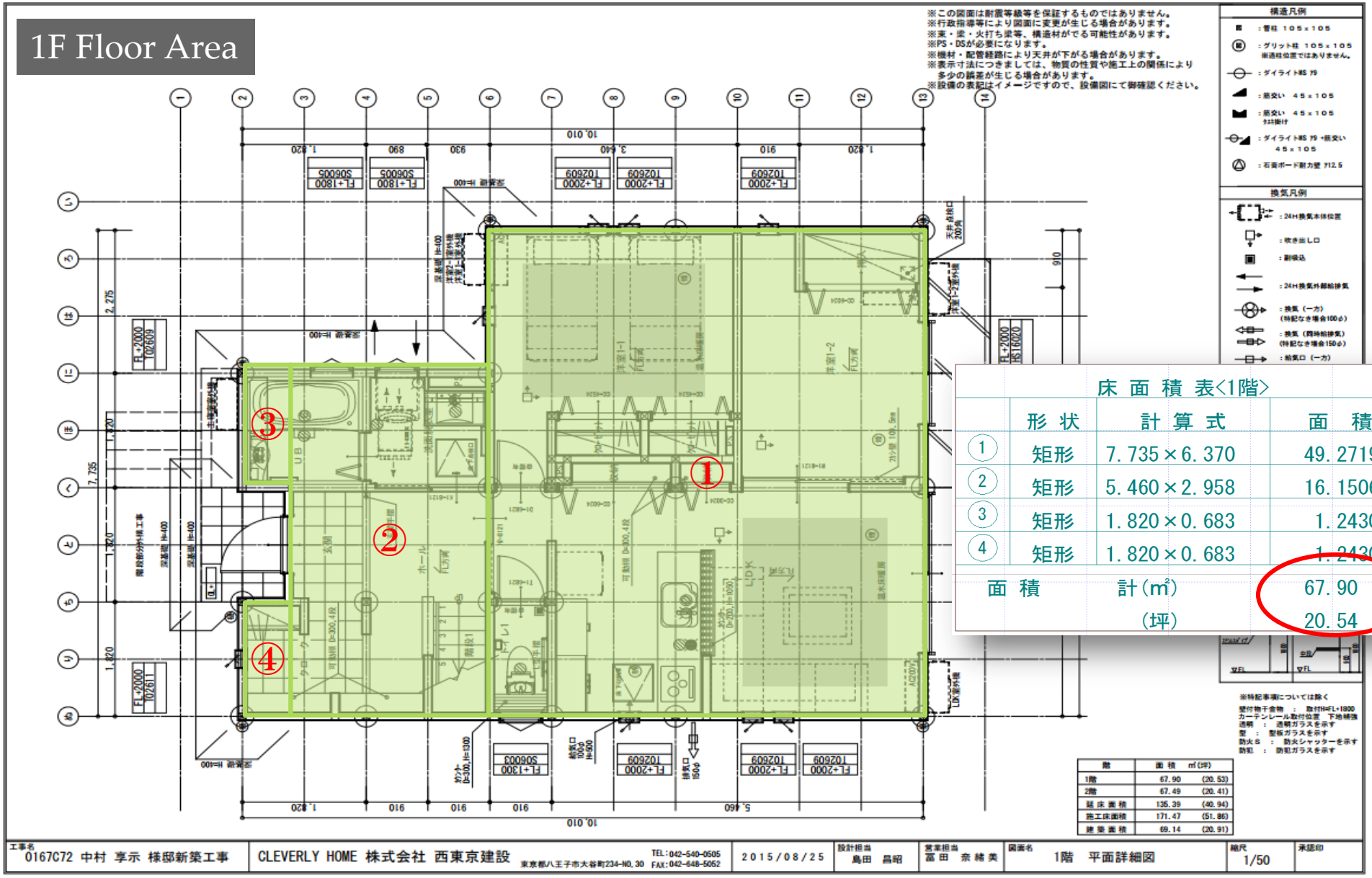
Prepared by: IDr. Ruth Annalyn Acibar, CAD Supervisor
©Frontier Intermediary Technology, Inc. 2016



Basic DP – Areas

Prepared by: IDr. Ruth Annalyn Acibar, CAD Supervisor
©Frontier Intermediary Technology, Inc. 2016

1F Floor Area

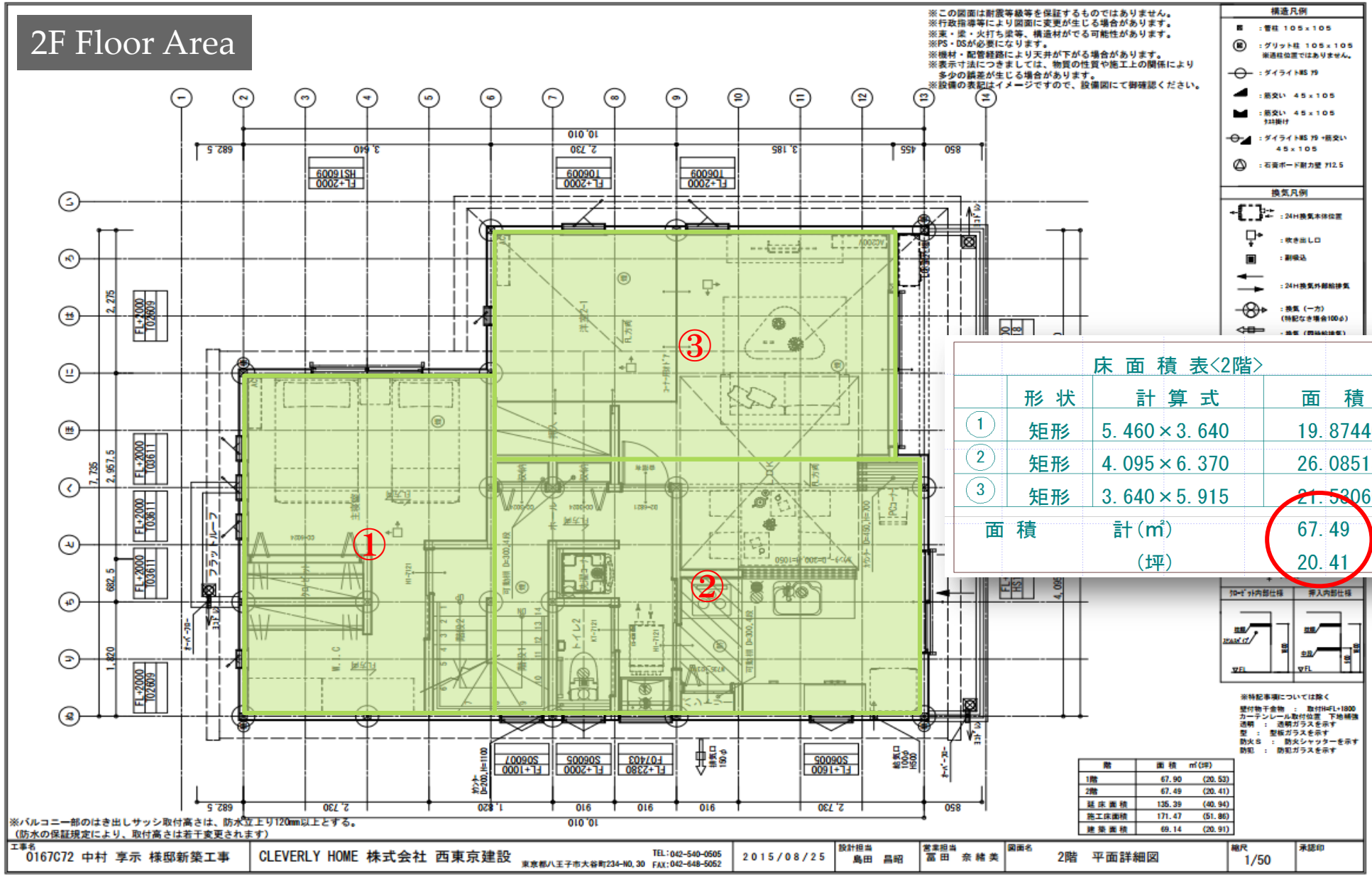


床 面 積 表〈1階〉

	形 状	計 算 式	面 積
1	矩形	7.735×6.370	49.271950
2	矩形	5.460×2.958	16.150680
3	矩形	1.820×0.683	1.243060
4	矩形	1.820×0.683	1.243060
面 積		計(㎡)	67.90
		(坪)	20.54

Basic DP – Areas

Prepared by: IDr. Ruth Annalyn Acibar, CAD Supervisor
©Frontier Intermediary Technology, Inc. 2016

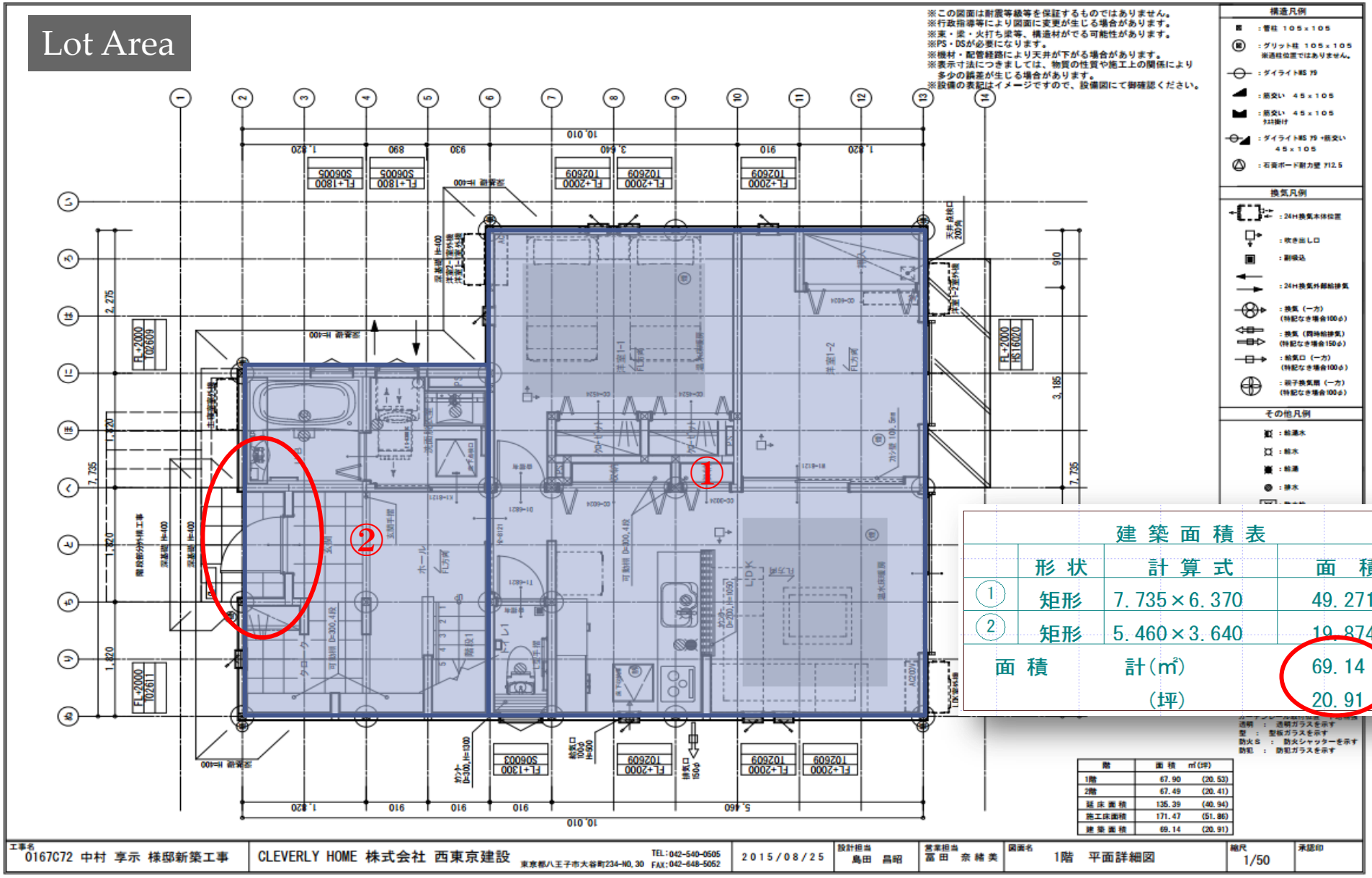


床 面 積 表〈2階〉

	形 状	計 算 式	面 積
①	矩形	5.460×3.640	19.874400
②	矩形	4.095×6.370	26.085150
③	矩形	3.640×5.915	21.530600
面 積		計(㎡)	67.49
		(坪)	20.41

Basic DP – Areas

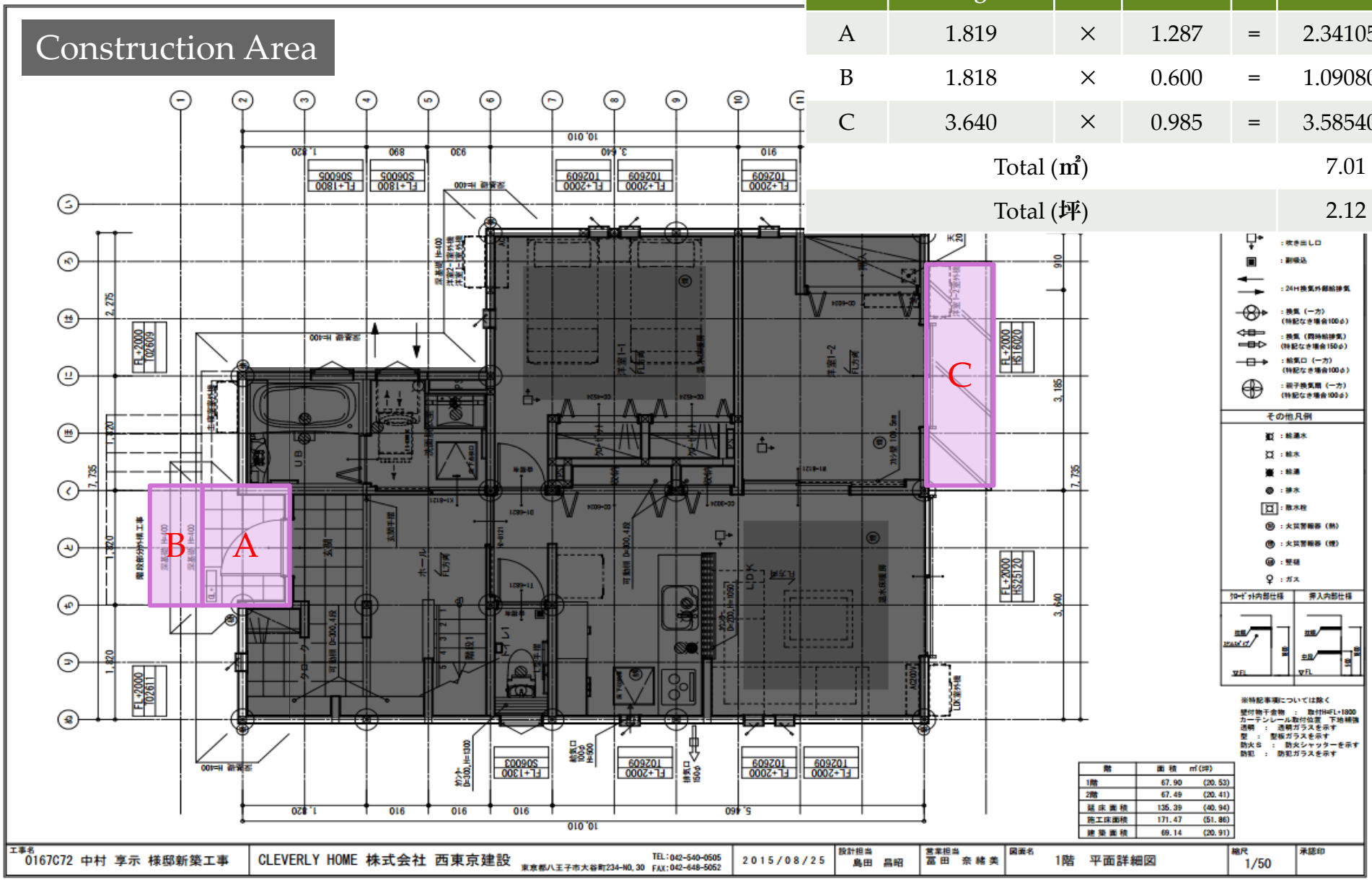
Prepared by: IDr. Ruth Annalyn Acibar, CAD Supervisor
©Frontier Intermediary Technology, Inc. 2016



Basic DP – Areas

Prepared by: IDr. Ruth Annalyn Acibar, CAD Supervisor
©Frontier Intermediary Technology, Inc. 2016

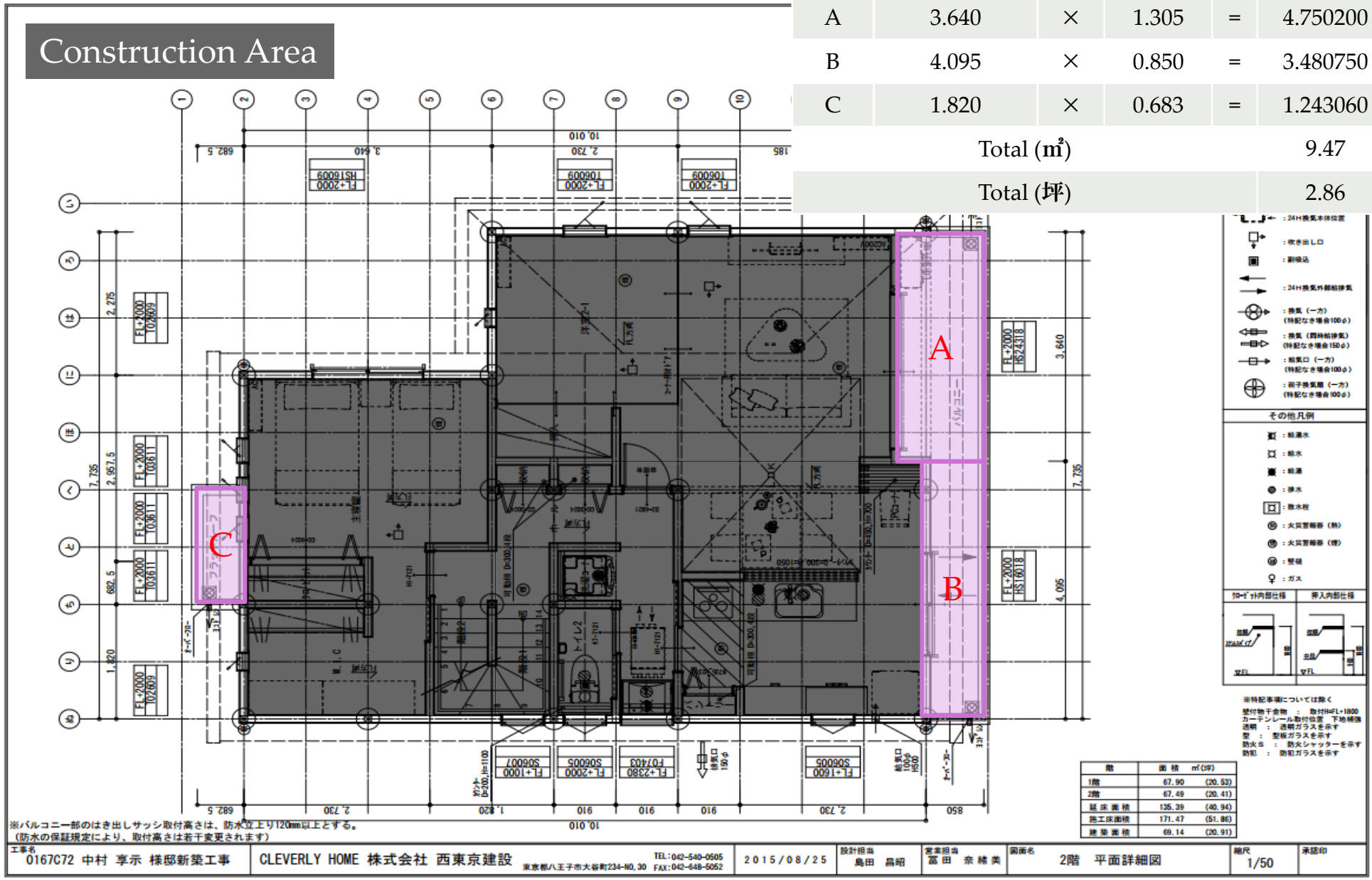
	Length	×	Width	=	Area
A	1.819	×	1.287	=	2.341053
B	1.818	×	0.600	=	1.090800
C	3.640	×	0.985	=	3.585400
	Total (㎡)				7.01
	Total (坪)				2.12



Basic DP – Areas

Prepared by: IDr. Ruth Annalyn Acibar, CAD Supervisor
©Frontier Intermediary Technology, Inc. 2016

	Length	×	Width	=	Area
A	3.640	×	1.305	=	4.750200
B	4.095	×	0.850	=	3.480750
C	1.820	×	0.683	=	1.243060
	Total (㎡)				9.47
	Total (坪)				2.86

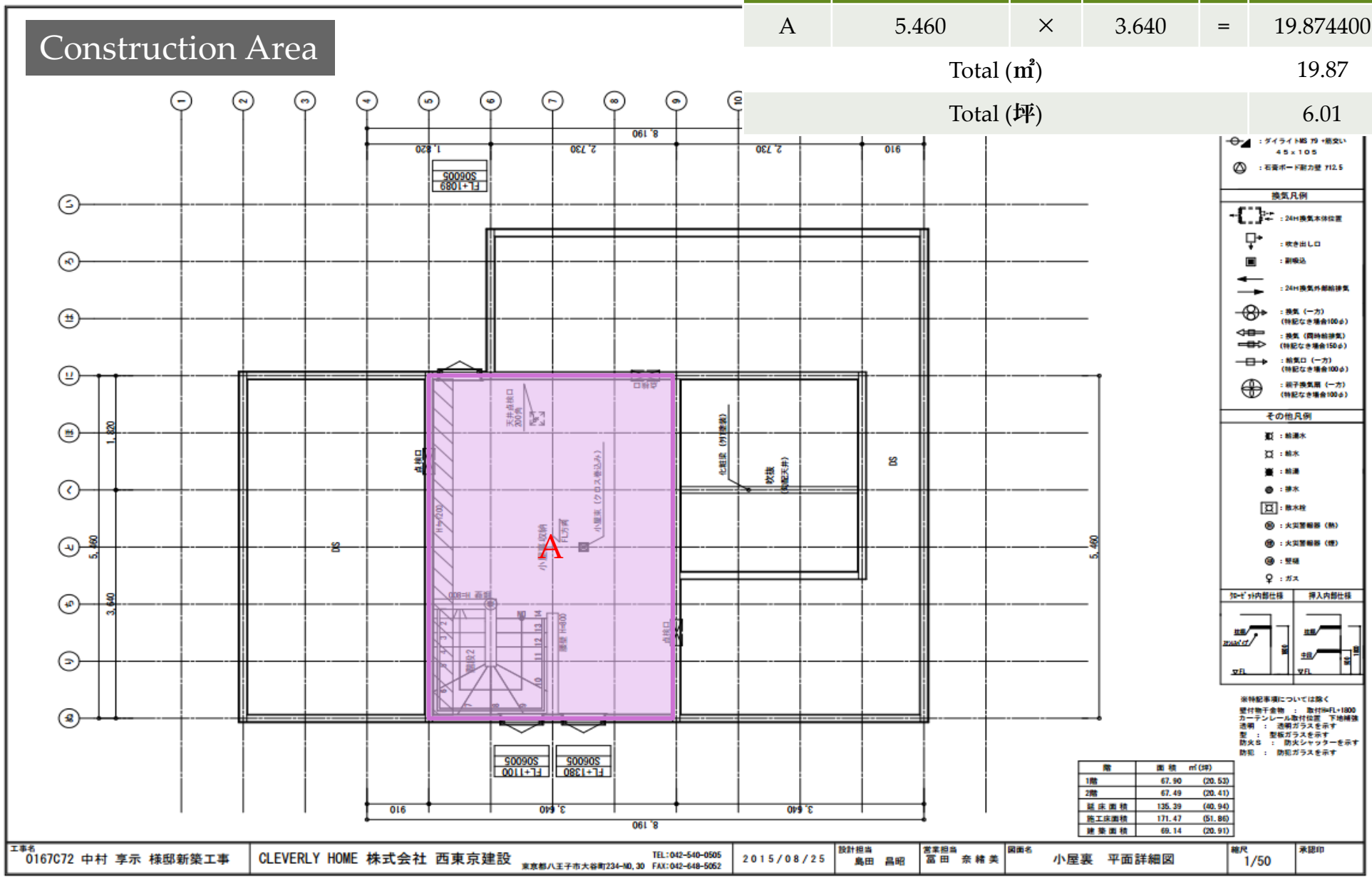


Basic DP – Areas

Prepared by: IDr. Ruth Annalyn Acibar, CAD Supervisor
©Frontier Intermediary Technology, Inc. 2016

	Length	×	Width	=	Area
A	5.460	×	3.640	=	19.874400
		Total (m²)			19.87
		Total (坪)			6.01

Construction Area



Prepared by: IDr. Ruth Annalyn Acibar, CAD Supervisor
©Frontier Intermediary Technology, Inc. 2016

SITE PLAN

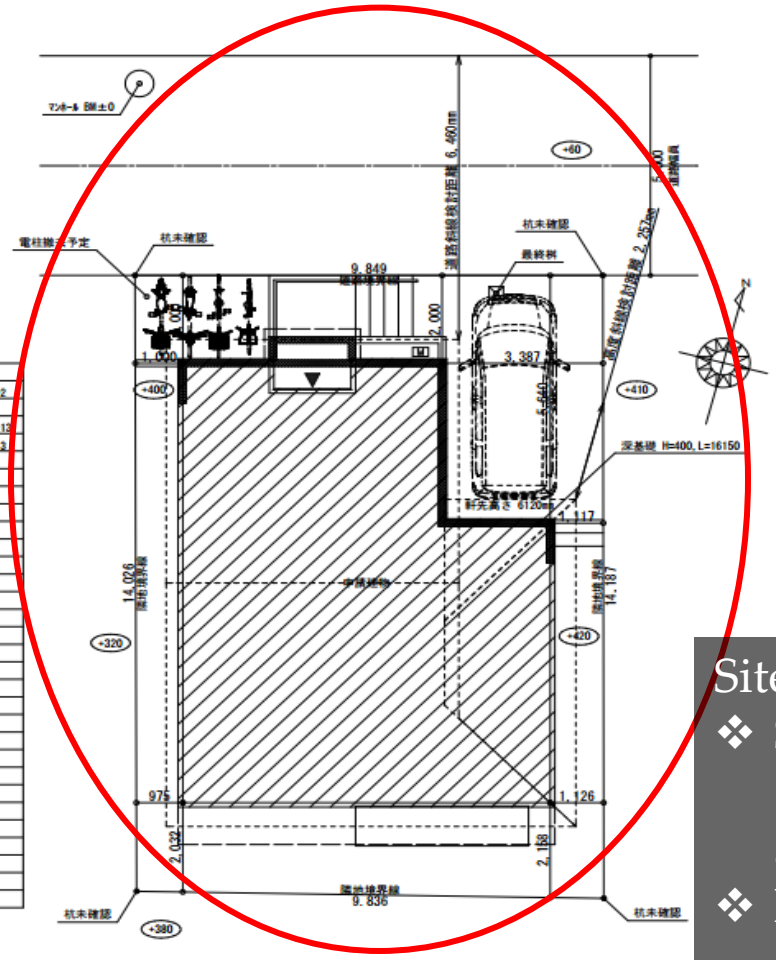
FIT INC.

Frontier Intermediary Technology, Inc.

Basic DP – Site Plan

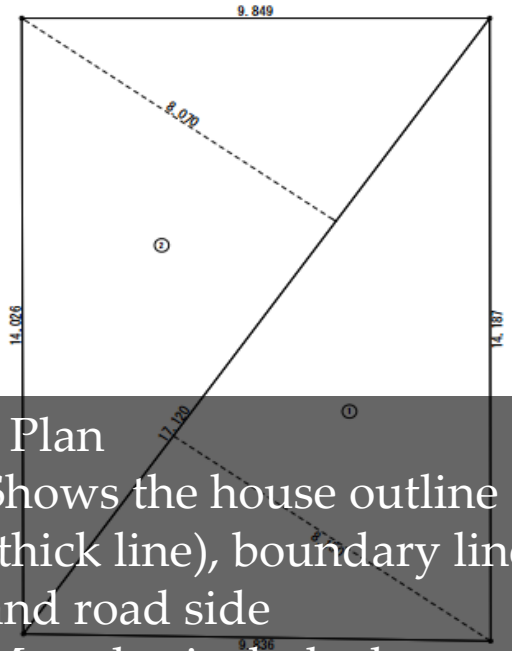
Prepared by: IDr. Ruth Annalyn Acibar, CAD Supervisor
©Frontier Intermediary Technology, Inc. 2016

※建物配置位置は敷地調査測定後、決定となります。
※設計GLは図面確定時、決定とさせて戴きます。
※行政指導により図面に変更が生じる場合があります。



計画概要

工事名称	中村 享示 様邸新築工事	
建築主	住所	東京都稲城市向陽台5-10-2-402
	氏名	中村 享示 様
敷地概要	地名地番	東京都東大和市南街2丁目25番13
	住居表示	東京都東大和市南街2丁目25-13
	敷地面積	138.84㎡
	都市計画区域	都市計画区域内(市街化区域)
	用途地域	第1種低層住居専用地域
	防火地域	準防火地域
	指定建ぺい率	50.00%
	指定容積率	100.00%
	高さ制限	10m
	高度地区	第一種高度地区
	日影規制	4h/2.5h/1.5m
	外壁の後退	なし
	風致地区	指定なし
	その他の指定	なし
	道路	前面道路 5.0m
建築概要	構造	木造在来軸組工法
	階数	2階建て
	最高高さ	8.893m
	軒高さ	6.165m
	建築面積	69.14㎡
	1階床面積	67.90㎡
	2階床面積	67.49㎡
	延床面積	135.39㎡
	容積対象床面積	135.39㎡
	建ぺい率	49.80%
	容積率	97.52%
	公的融資	銀行ローン
	予定工期	工事工程表による



求積図 S:1/100

	底辺(m)	高さ(m)	面積(㎡)
①	17.120	8.150	139.528000
	17.120	8.070	138.158400
延床面積	計		277.686400
敷地面積 (㎡)			138.84

Site Plan

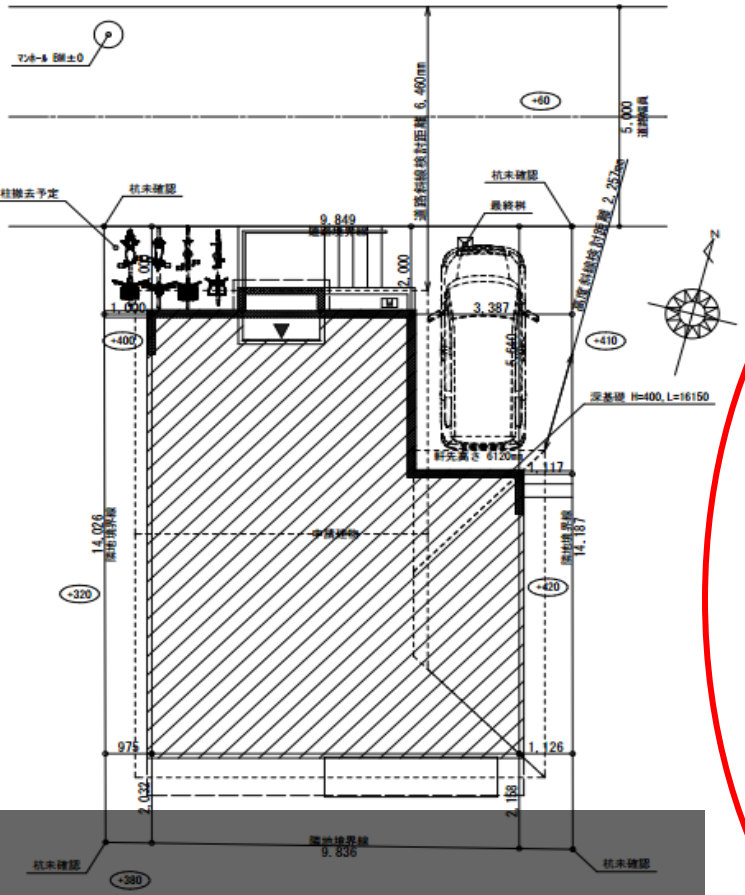
- Shows the house outline (thick line), boundary lines and road side
- May also include deep foundation, porch and terraces
- Landscape is optional

工事名								
0167C72 中村 享示 様邸新築工事	CLEVERLY HOME 株式会社 西東京建設 東京都八王子市大谷町234-NO.30 TEL:042-540-0505 FAX:042-648-5062	2015/08/25	設計担当 島田 昌昭	営業担当 冨田 奈緒美	図面名 配置図	縮尺 1/100	承認印

Basic DP – Site Plan

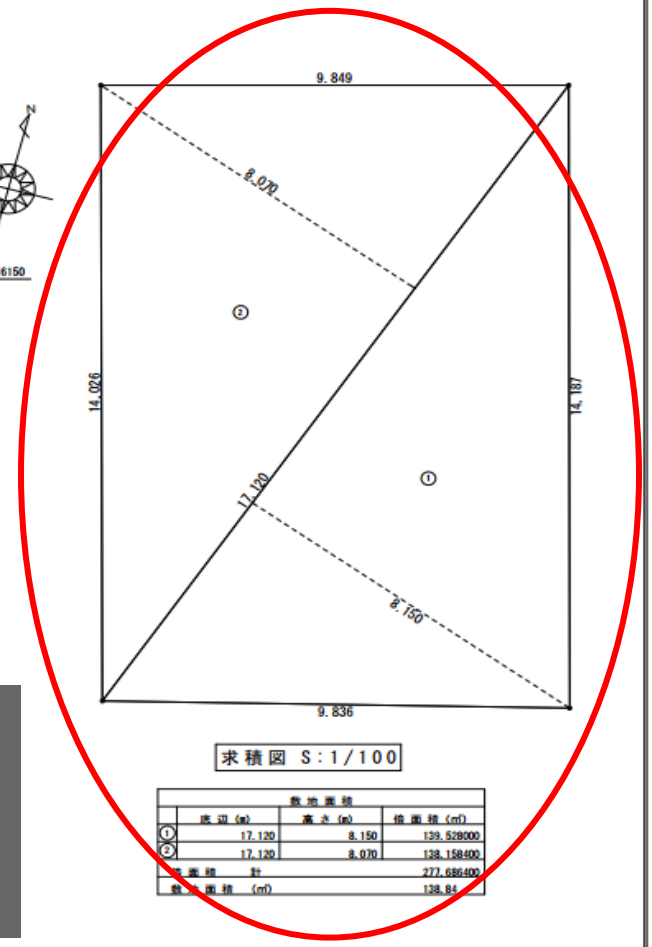
Prepared by: IDr. Ruth Annalyn Acibar, CAD Supervisor
©Frontier Intermediary Technology, Inc. 2016

※建物配置位置は敷地調査測定後、決定となります。
※設計GLは図面確定時、決定とさせて戴きます。
※行政指導により図面に変更が生じる場合があります。



計画概要

工事名称		中村 享示 様邸新築工事
建築主	住所	東京都稲城市向陽台5-10-2-402
	氏名	中村 享示 様
敷地概要	地名地番	東京都東大和市南街2丁目25番13
	住居表示	東京都東大和市南街2丁目25-13
	敷地面積	138.84㎡
	都市計画区域	都市計画区域内(市街化区域)
	用途地域	第1種低層住居専用地域
	防火地域	準防火地域
	指定建ぺい率	50.00%
	指定容積率	100.00%
	高さ制限	10m
	高度地区	第一種高度地区
	日影規制	4h/2.5h/1.5m
	外壁の後退	なし
	風致地区	指定なし
	その他の指定	なし
	道路	前面道路 5.0m
建築概要	構造	木造在来軸組工法
	階数	2階建て
	最高高さ	8.893m
	軒高さ	6.165m
	建築面積	69.14㎡
	1階床面積	67.90㎡
	2階床面積	67.49㎡
	延床面積	135.39㎡
	容積対象床面積	135.39㎡
	建ぺい率	49.80%
	容積率	97.52%
	公的融資	銀行ローン
	予定工期	工事工程表による



求積図 S:1/100

敷地面積			
	底辺(m)	高さ(m)	面積(㎡)
①	17.120	8.150	139.528000
②	17.120	8.070	138.158400
面積計			277.686400
敷地面積(㎡)			138.84

Site Area

- ❖ 求積図
- ❖ Shows the area of the lot divided into triangular segments

工事名								
0167C72 中村 享示 様邸新築工事	CLEVERLY HOME 株式会社 西東京建設 東京都八王子市大谷町234-NO.30 TEL:042-540-0505 FAX:042-648-5052	2015/08/25	設計担当 島田 昌昭	営業担当 冨田 奈緒美	図面名 配置図	縮尺 1/100	承認印

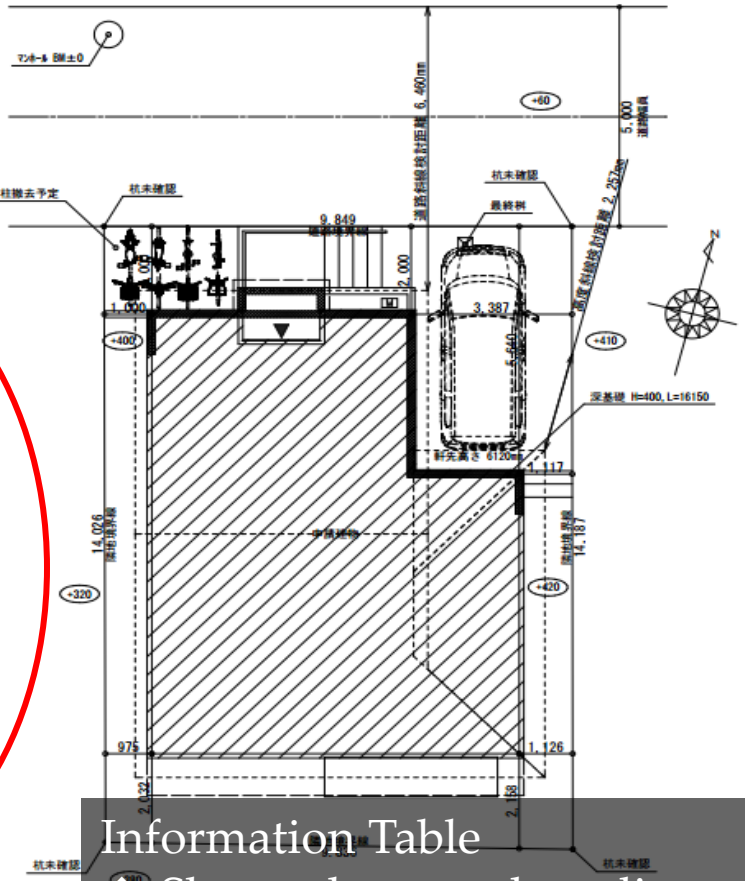
Basic DP – Site Plan

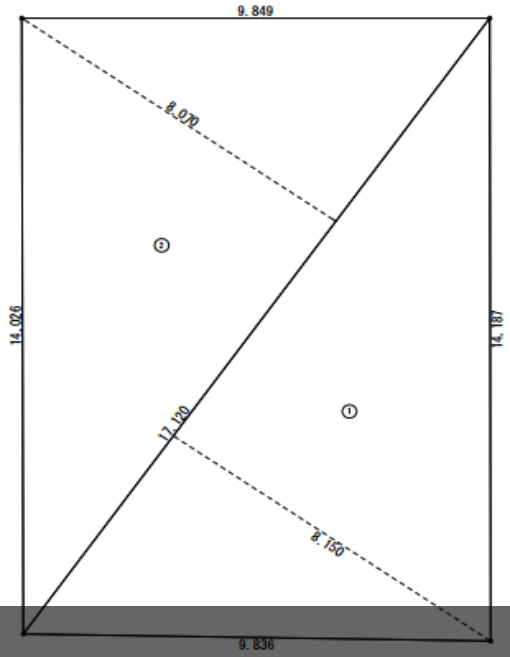
Prepared by: IDr. Ruth Annalyn Acibar, CAD Supervisor
©Frontier Intermediary Technology, Inc. 2016

※建物配置位置は敷地調査測定後、決定となります。
※設計GLは図面確定時、決定とさせて戴きます。
※行政指導により図面に変更が生じる場合があります。

計画概要

工事名称		中村 享示 様邸新築工事
建築主	住所	東京都稲城市向陽台5-10-2-402
	氏名	中村 享示 様
敷地概要	地名地番	東京都東大和市南街2丁目25番13
	住居表示	東京都東大和市南街2丁目25-13
	敷地面積	138.84㎡
	都市計画区域	都市計画区域内(市街化区域)
	用途地域	第1種低層住居専用地域
	防火地域	準防火地域
	指定建ぺい率	50.00%
	指定容積率	100.00%
	高さ制限	10m
	高度地区	第一種高度地区
	日影規制	4h/2.5h/1.5m
	外壁の後退	なし
	風致地区	指定なし
	その他の指定	なし
	道路	前面道路 5.0m
建築概要	構造	木造在来軸組工法
	階数	2階建て
	最高高さ	8.893m
	軒高さ	6.165m
	建築面積	69.14㎡
	1階床面積	67.90㎡
	2階床面積	67.49㎡
	延床面積	135.39㎡
	容積対象床面積	135.39㎡
	建ぺい率	49.80%
	容積率	97.52%
	公的融資	銀行ローン
	予定工期	工事工程表による





求積図 S:1/100

敷地面積			
②	17.120	8.070	138.158400
総面積 計			277.686400
敷地面積 (㎡)			138.84

Information Table

- ❖ Shows the complete client profile
- ❖ Includes the areas, heights, and limits of the house and lot

工事名		設計担当	営業担当	図面名	縮尺	承認印
0167C72 中村 享示 様邸新築工事	CLEVERLY HOME 株式会社 西東京建設 東京都八王子市大谷町234-NO.30 TEL:042-540-0505 FAX:042-648-5052	2015/08/25	島田 昌昭	冨田 奈緒美	配置図	1/100

Basic DP – Site Plan

Prepared by: IDr. Ruth Annalyn Acibar, CAD Supervisor
©Frontier Intermediary Technology, Inc. 2016

※建物配置位置は敷地調査測定後、決定となります。
※設計GLは図面確定時、決定とさせて戴きます。
※行政指導により図面に変更が生じる場合があります。

Client Profile

House Info

Lot Info

Site area

Maximum height

Eaves height

Lot area

Floor area

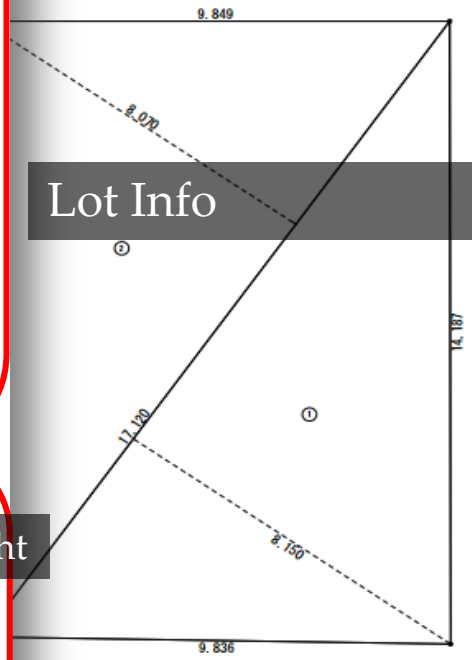
Construction area

Building coverage

Floor-area ratio

計画概要

工事名称	中村 享示 様邸新築工事	
建築主	住所	東京都稲城市向陽台5-10-2-402
	氏名	中村 享示 様
敷地概要	地名地番	東京都東大和市南街2丁目25番13
	住居表示	東京都東大和市南街2丁目25-13
	敷地面積	138.84㎡
	都市計画区域	都市計画区域内(市街化区域)
	用途地域	第１種低層住居専用地域
	防火地域	準防火地域
	指定建ぺい率	50.00%
	指定容積率	100.00%
	高さ制限	10m
	高度地区	第一種高度地区
	日影規制	4h/2.5h/1.5m
	外壁の後退	なし
	風致地区	指定なし
	その他の指定	なし
	道路	前面道路　5.0m
建築概要	構造	木造在来軸組工法
	階数	2階建て
	最高高さ	8.893m
	軒高さ	6.165m
	建築面積	69.14㎡
	1階床面積	67.90㎡
	2階床面積	67.49㎡
	延床面積	135.39㎡
	容積対象床面積	135.39㎡
	建ぺい率	49.80%
	容積率	97.52%
	公的融資	銀行ローン
	予定工期	工事工程表による



求積図 S:1/100

敷地面積			
	底辺(m)	高さ(m)	面積(㎡)
①	17.120	8.150	139.528000
②	17.120	8.070	138.158400
面積計			277.686400
敷地面積(㎡)			138.84

工事名 0167C72 中村 享示 様邸新築工事	CLEVERLY HOME 株式	図面名 配置図	縮尺 1/100	承認印

Basic DP – Site Plan

Prepared by: IDr. Ruth Annalyn Acibar, CAD Supervisor
©Frontier Intermediary Technology, Inc. 2016

計画概要

工事名称	中村 享示 様邸新築工事	
建築主	住所	東京都稲城市向陽台5-10-2-402
	氏名	中村 享示 様
敷地概要	地名地番	東京都東大和市南街2丁目25番13
	住居表示	東京都東大和市南街2丁目25-13
	敷地面積	138.84㎡
	都市計画区域	都市計画区域内(市街化区域)
	用途地域	第１種低層住居専用地域
	防火地域	準防火地域
	指定建ぺい率	50.00%
	指定容積率	100.00%
	高さ制限	10m
	高度地区	第一種高度地区
	日影規制	4h/2.5h/1.5m
	外壁の後退	なし
	風致地区	指定なし
	その他の指定	なし
	道路	前面道路　5.0m
建築概要	構造	木造在来軸組工法
	階数	2階建て
	最高高さ	8.893m
	軒高さ	6.165m
	建築面積	69.14㎡
	1階床面積	67.90㎡
	2階床面積	67.49㎡
	延床面積	135.39㎡
	容積対象床面積	135.39㎡
	建ぺい率	49.80% (x)
	容積率	97.52% (y)
	公的融資	銀行ローン
	予定工期	工事工程表による

To get (x):

x = (lot area/site area) * 100

Ex:
x = (69.14/138.84) * 100
= 49.80%

To get (y):

x = (construction area/site area) * 100

Ex:
x = (135.39/138.84) * 100
= 97.52%

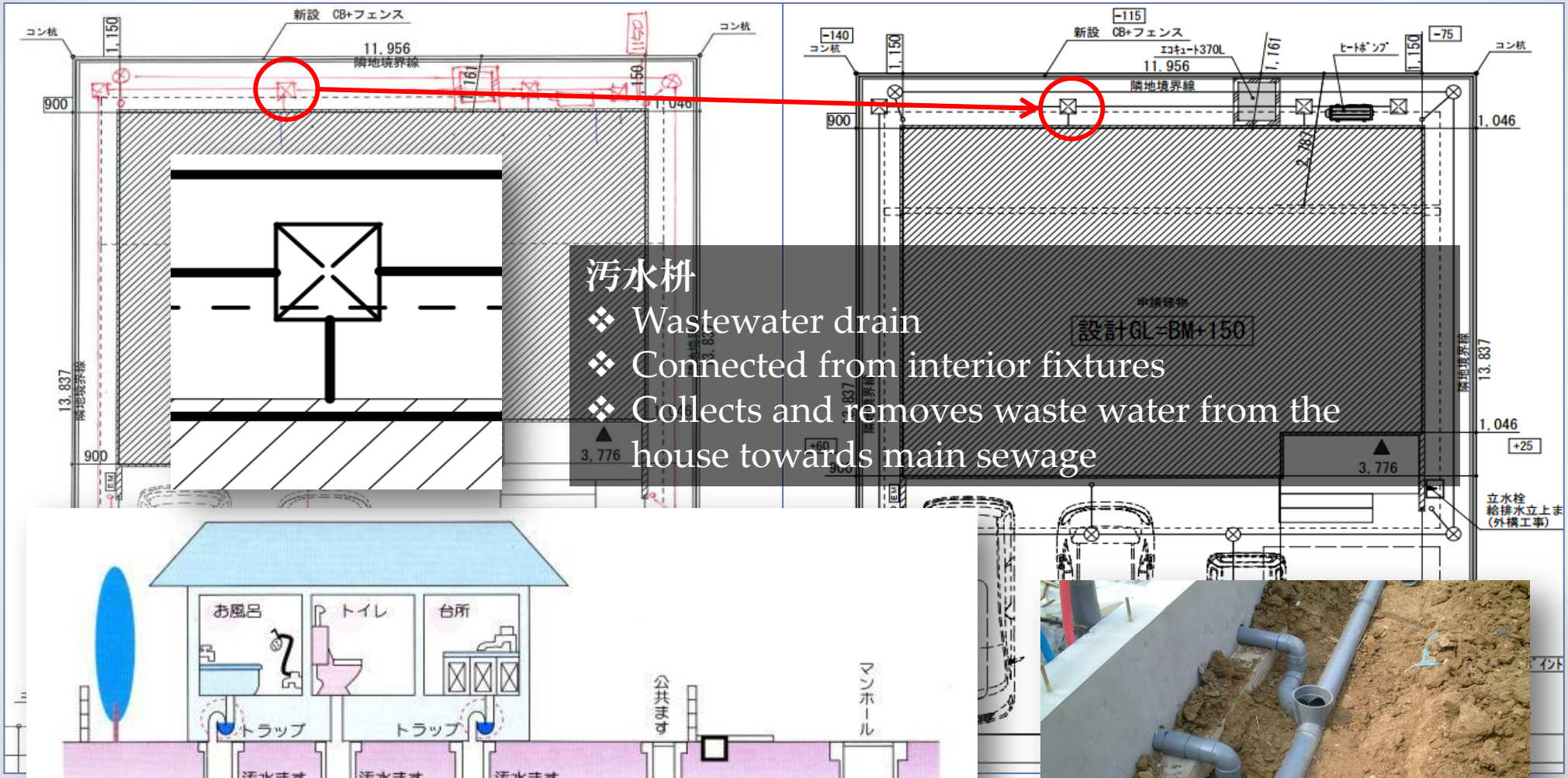
求積図 S:1/100

敷地面積			
	底辺(m)	高さ(m)	面積(㎡)
①	17.120	8.150	139.528000
②	17.120	8.070	138.158400
面積計			277.686400
敷地面積(㎡)			138.84

TEL:042-540-0505 FAX:042-648-5062	2015/08/25	設計担当 島田 昌昭	営業担当 富田 奈緒美	図面名 配置図	縮尺 1/100

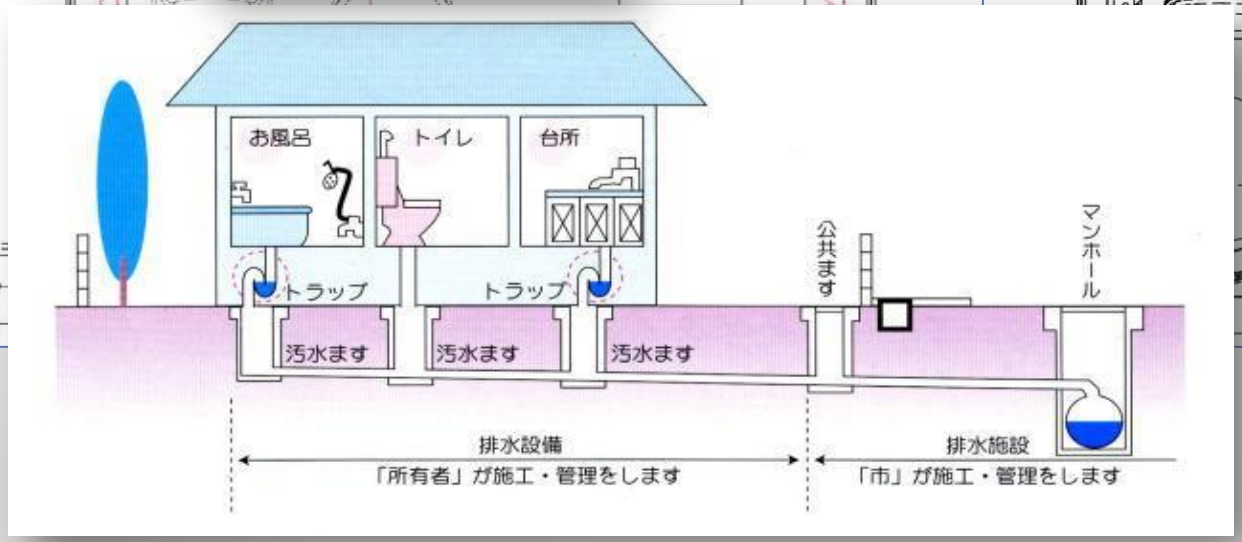
Basic DP – Site Plan

Prepared by: IDr. Ruth Annalyn Acibar, CAD Supervisor
©Frontier Intermediary Technology, Inc. 2016



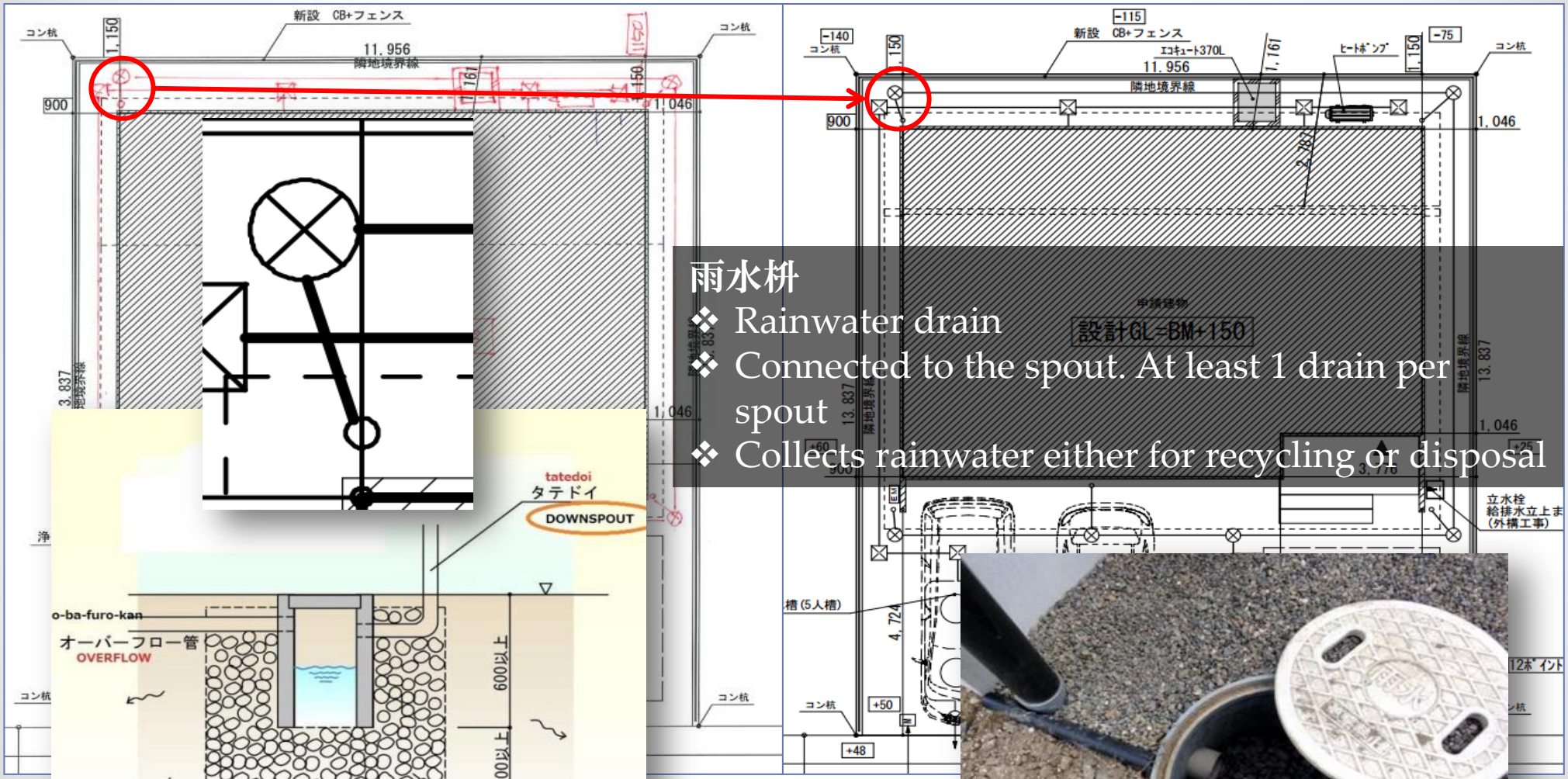
汚水枡

- Wastewater drain
- Connected from interior fixtures
- Collects and removes waste water from the house towards main sewage



Basic DP – Site Plan

Prepared by: IDr. Ruth Annalyn Acibar, CAD Supervisor
©Frontier Intermediary Technology, Inc. 2016

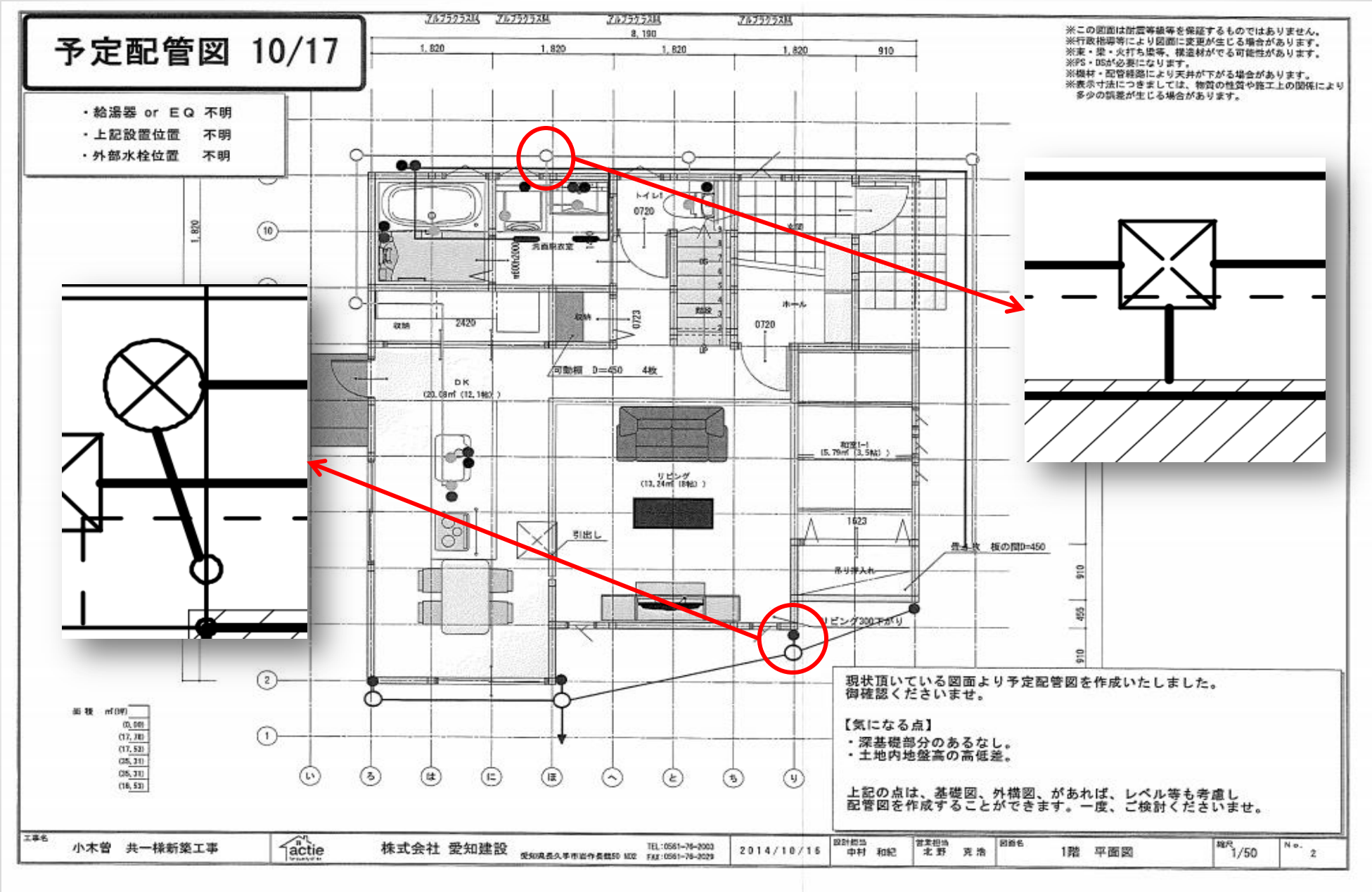


雨水枡

- Rainwater drain
- Connected to the spout. At least 1 drain per spout
- Collects rainwater either for recycling or disposal

Basic DP – Site Plan

Prepared by: IDr. Ruth Annalyn Acibar, CAD Supervisor
©Frontier Intermediary Technology, Inc. 2016



Prepared by: IDr. Ruth Annalyn Acibar, CAD Supervisor
©Frontier Intermediary Technology, Inc. 2016

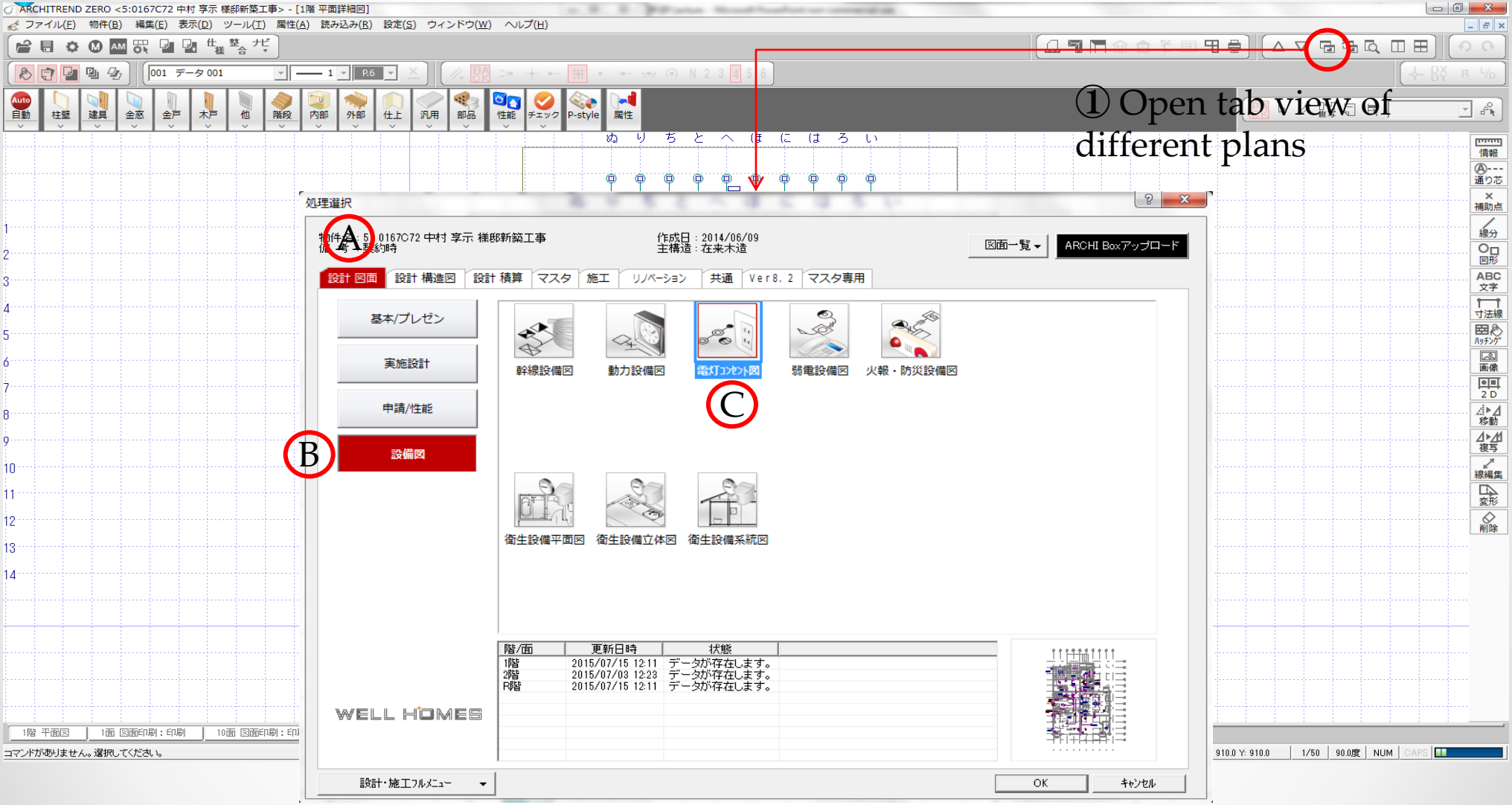
BASIC ELECTRICAL PLAN

- Combination of LIGHTING LAYOUT, ELECTRICAL LAYOUT and AUXILIARY PLAN
- Includes the lighting, switches, outlets and other symbols that may use electricity
- Uses modified FLOOR PLAN as base plan

FIT INC. Frontier Intermediary Technology Inc.

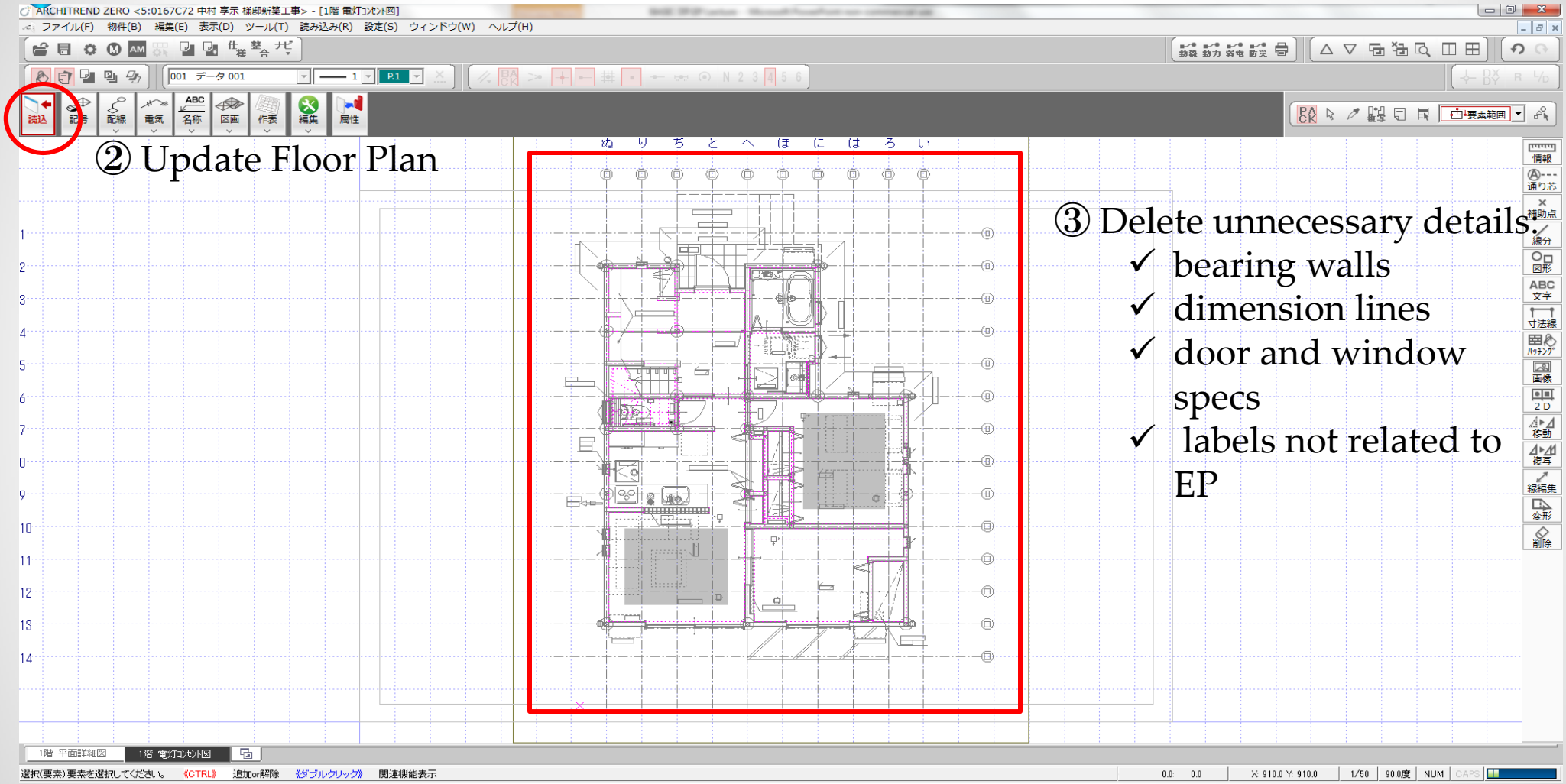
How to Create Basic EP

Prepared by: IDr. Ruth Annalyn Acibar, CAD Supervisor
©Frontier Intermediary Technology, Inc. 2016



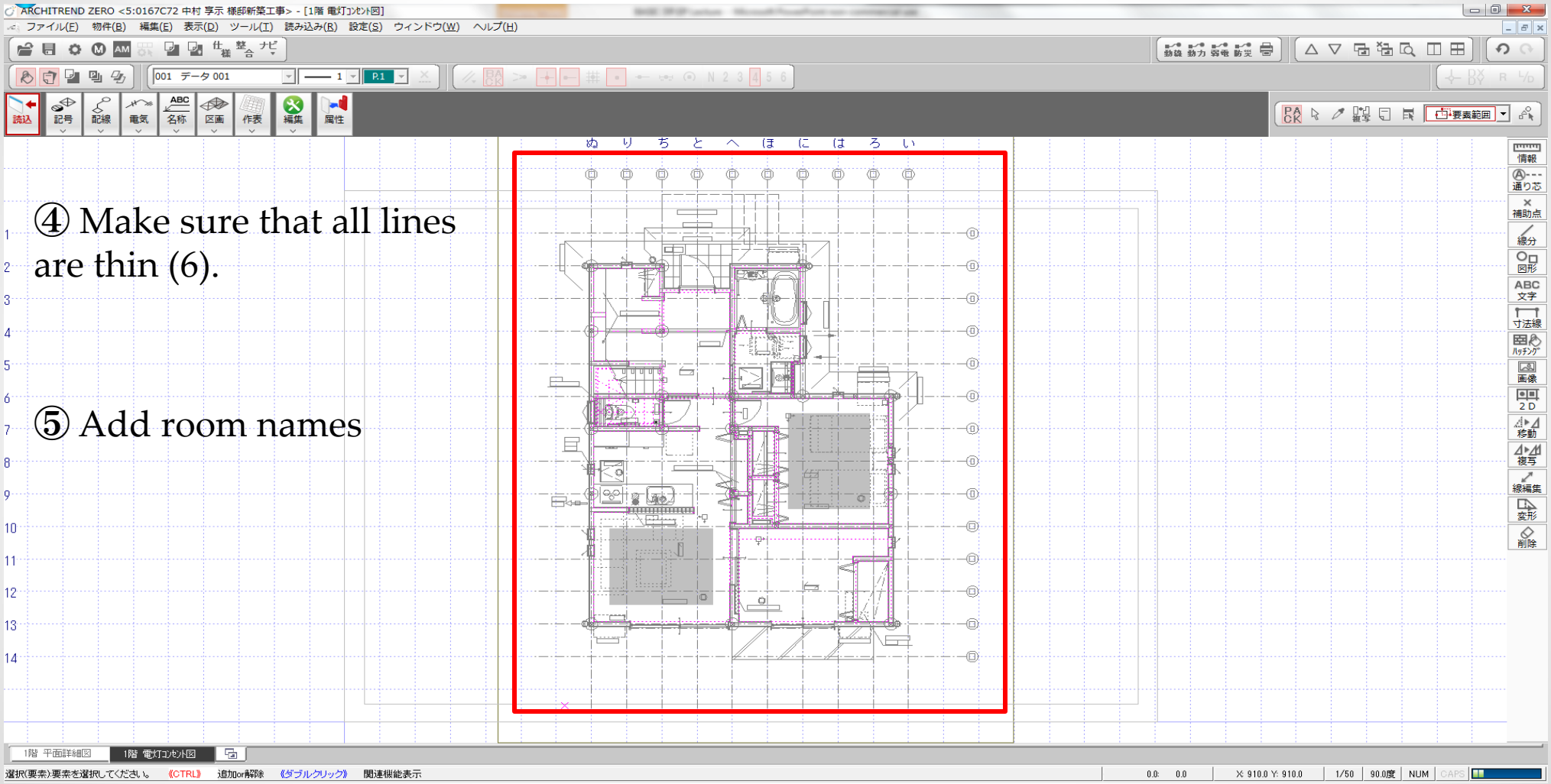
How to Create Basic EP

Prepared by: IDr. Ruth Annalyn Acibar, CAD Supervisor
©Frontier Intermediary Technology, Inc. 2016



How to Create Basic EP

Prepared by: IDr. Ruth Annalyn Acibar, CAD Supervisor
©Frontier Intermediary Technology, Inc. 2016



④ Make sure that all lines are thin (6).

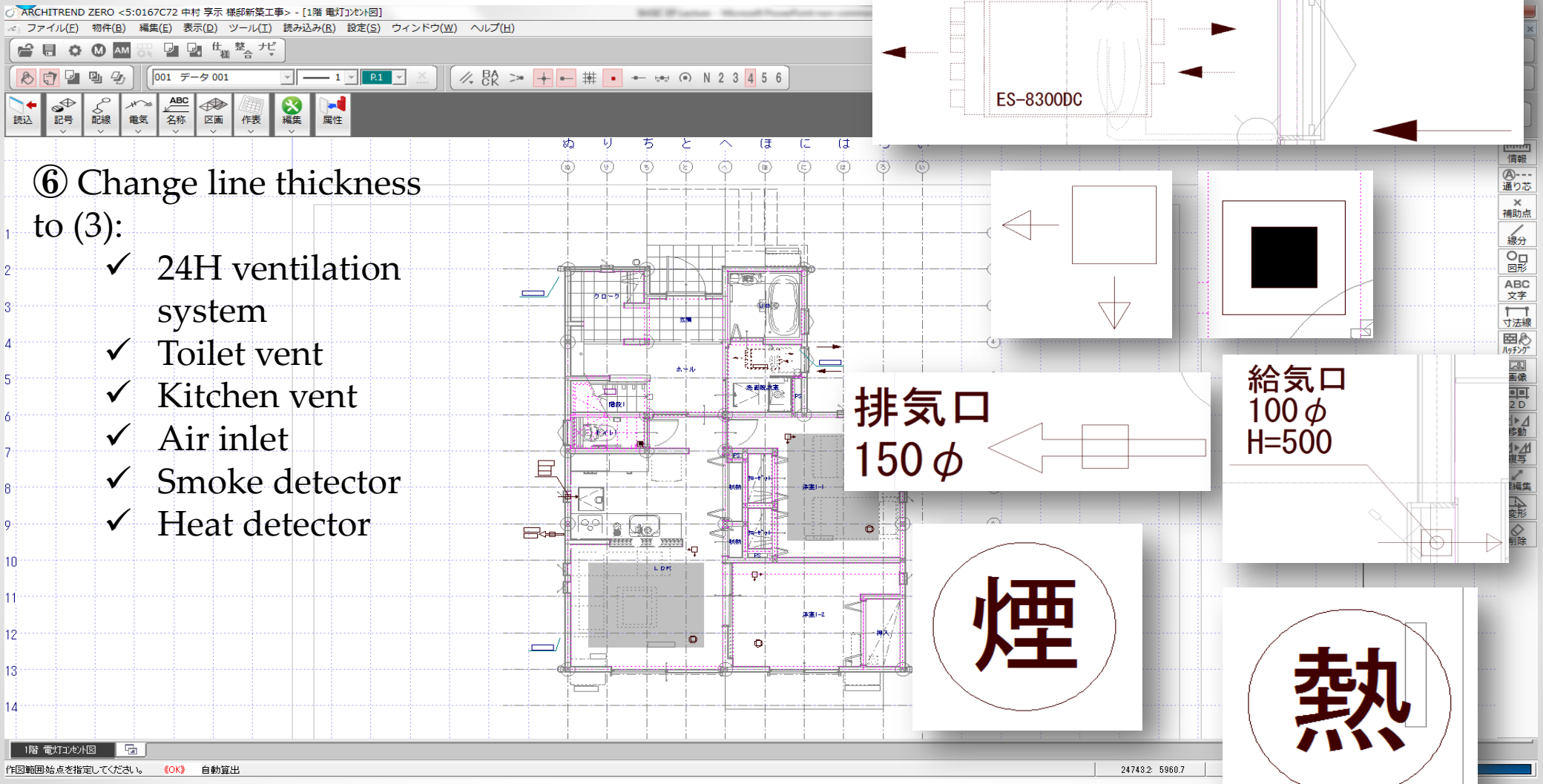
⑤ Add room names

How to Create Basic EP

Prepared by: IDr. Ruth Annalyn Acibar, CAD Supervisor
©Frontier Intermediary Technology, Inc. 2016

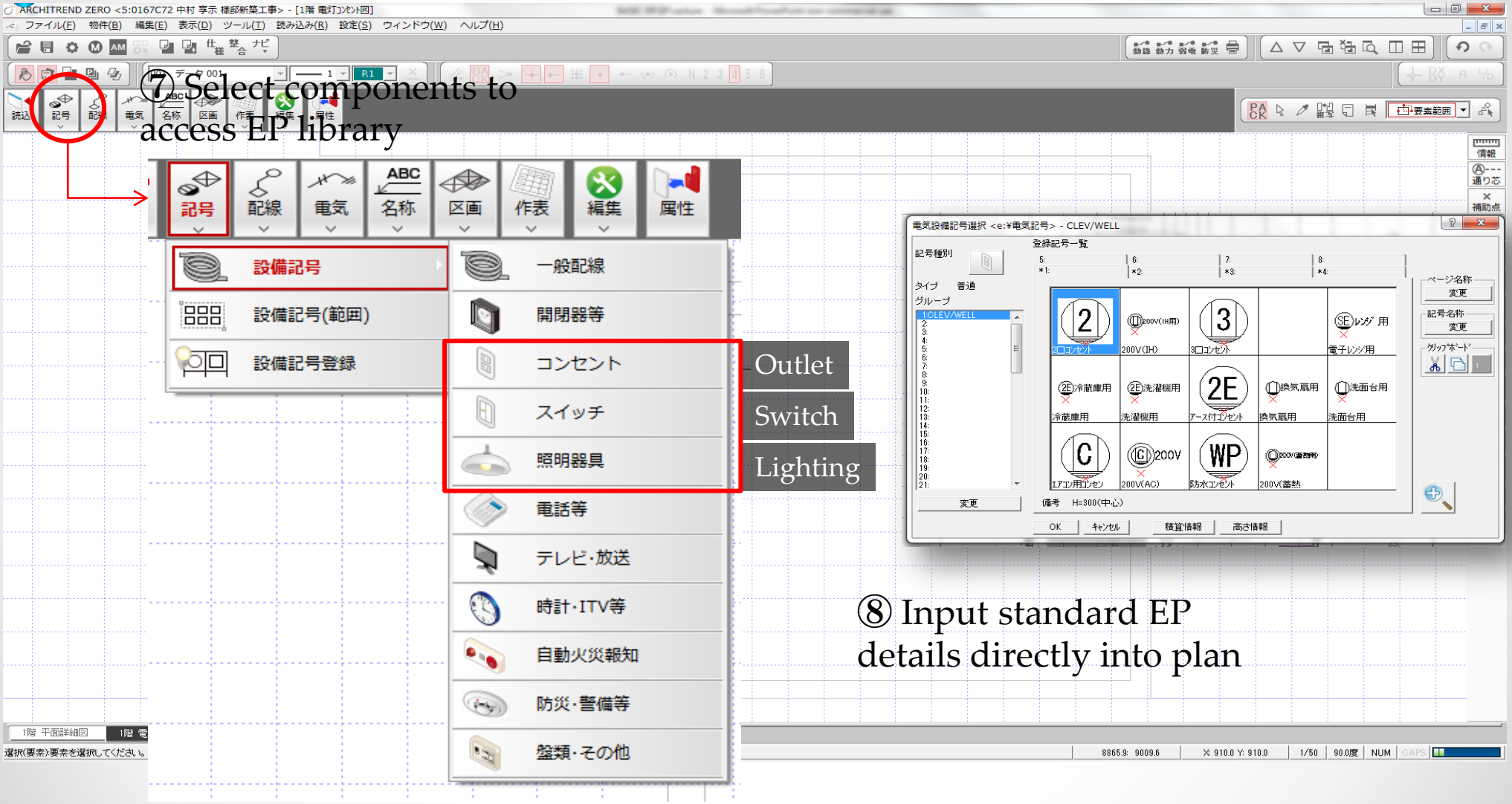
⑥ Change line thickness to (3):

- ✓ 24H ventilation system
- ✓ Toilet vent
- ✓ Kitchen vent
- ✓ Air inlet
- ✓ Smoke detector
- ✓ Heat detector



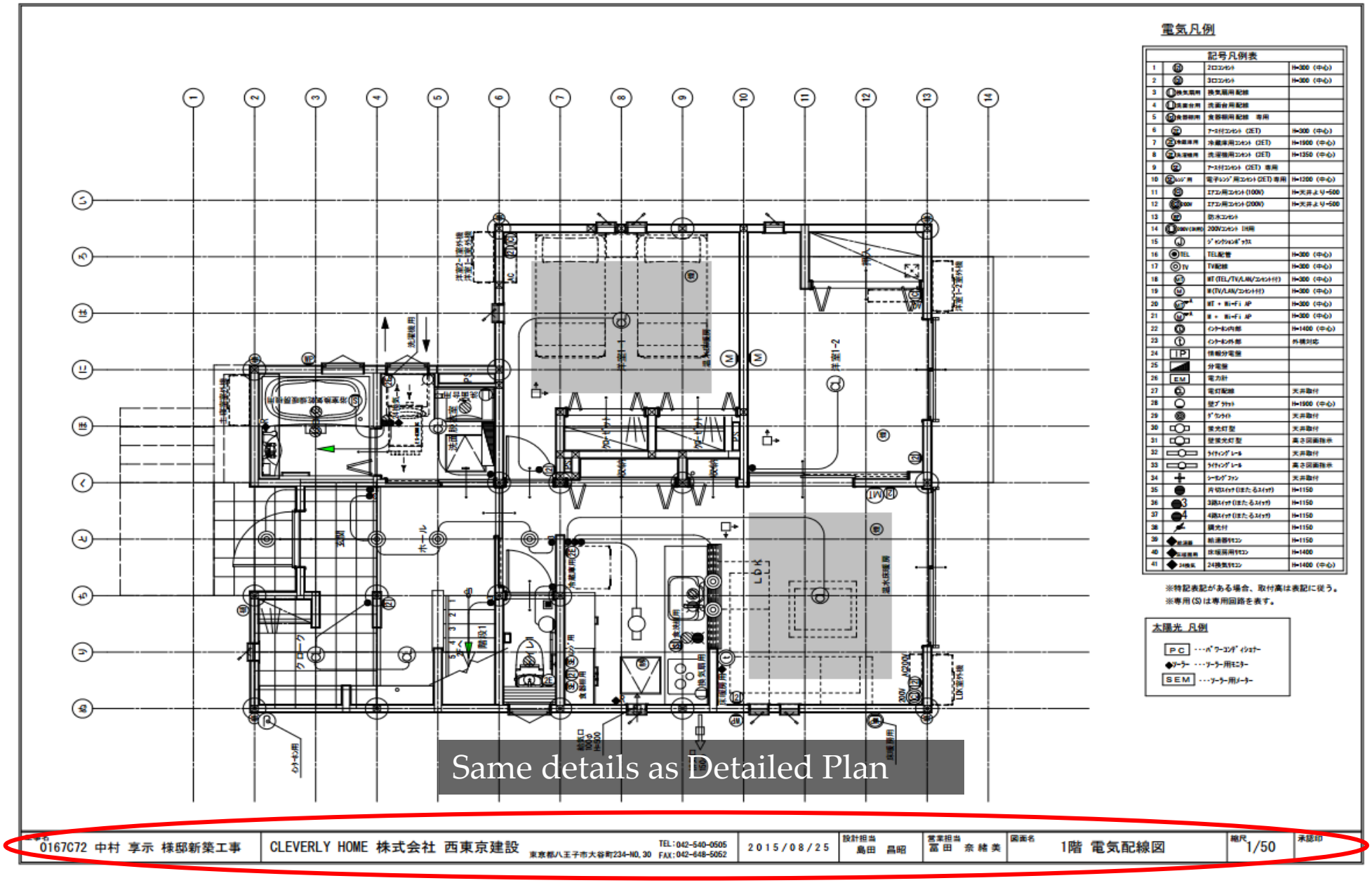
How to Create Basic EP

Prepared by: IDr. Ruth Annalyn Acibar, CAD Supervisor
©Frontier Intermediary Technology, Inc. 2016



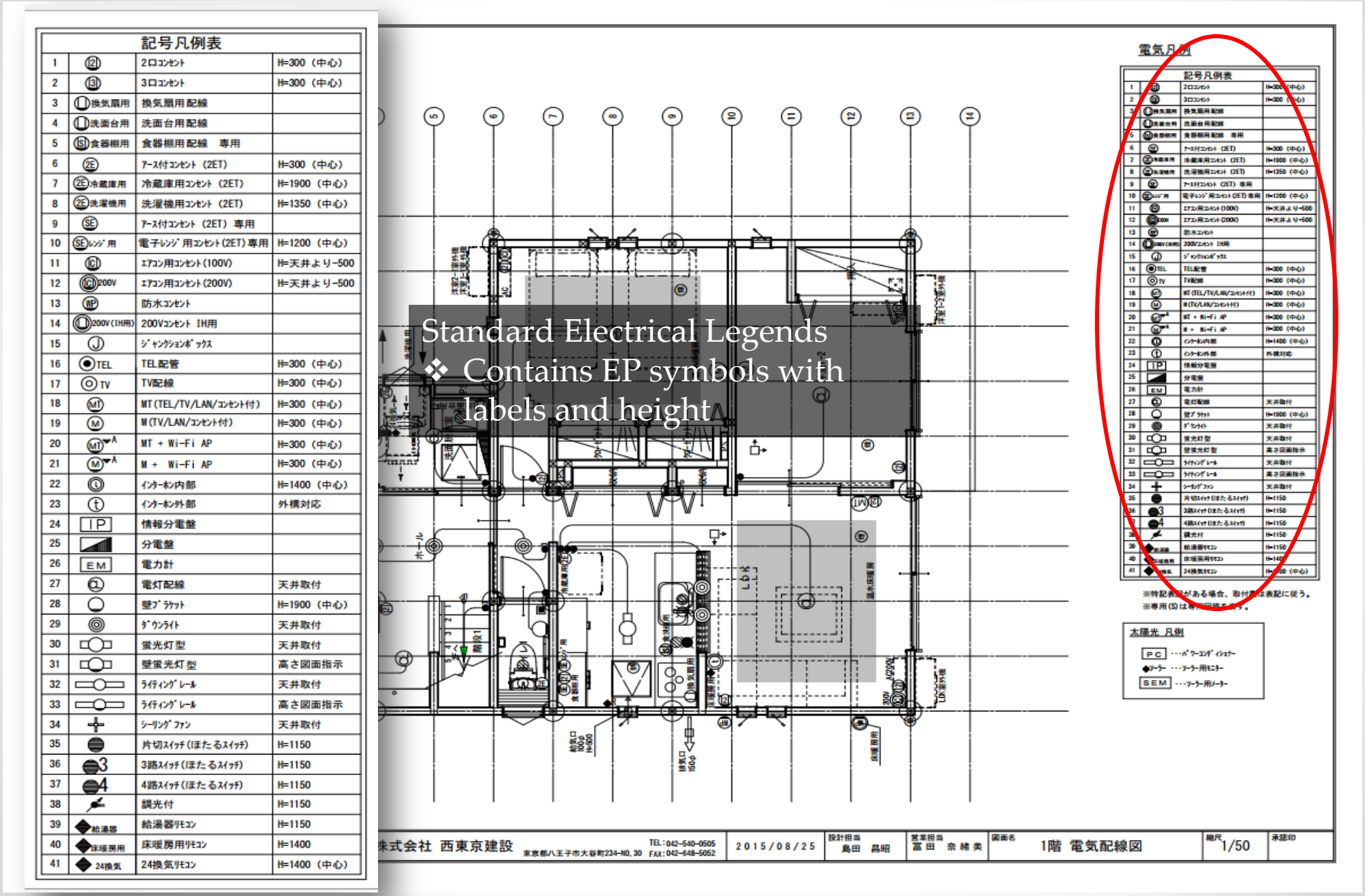
TITLE BLOCK

Prepared by: IDr. Ruth Annalyn Acibar, CAD Supervisor
©Frontier Intermediary Technology, Inc. 2016



TITLE BLOCK

Prepared by: IDr. Ruth Annalyn Acibar, CAD Supervisor
©Frontier Intermediary Technology, Inc. 2016



Prepared by: IDr. Ruth Annalyn Acibar, CAD Supervisor
©Frontier Intermediary Technology, Inc. 2016

LIGHTING

FIT INC.

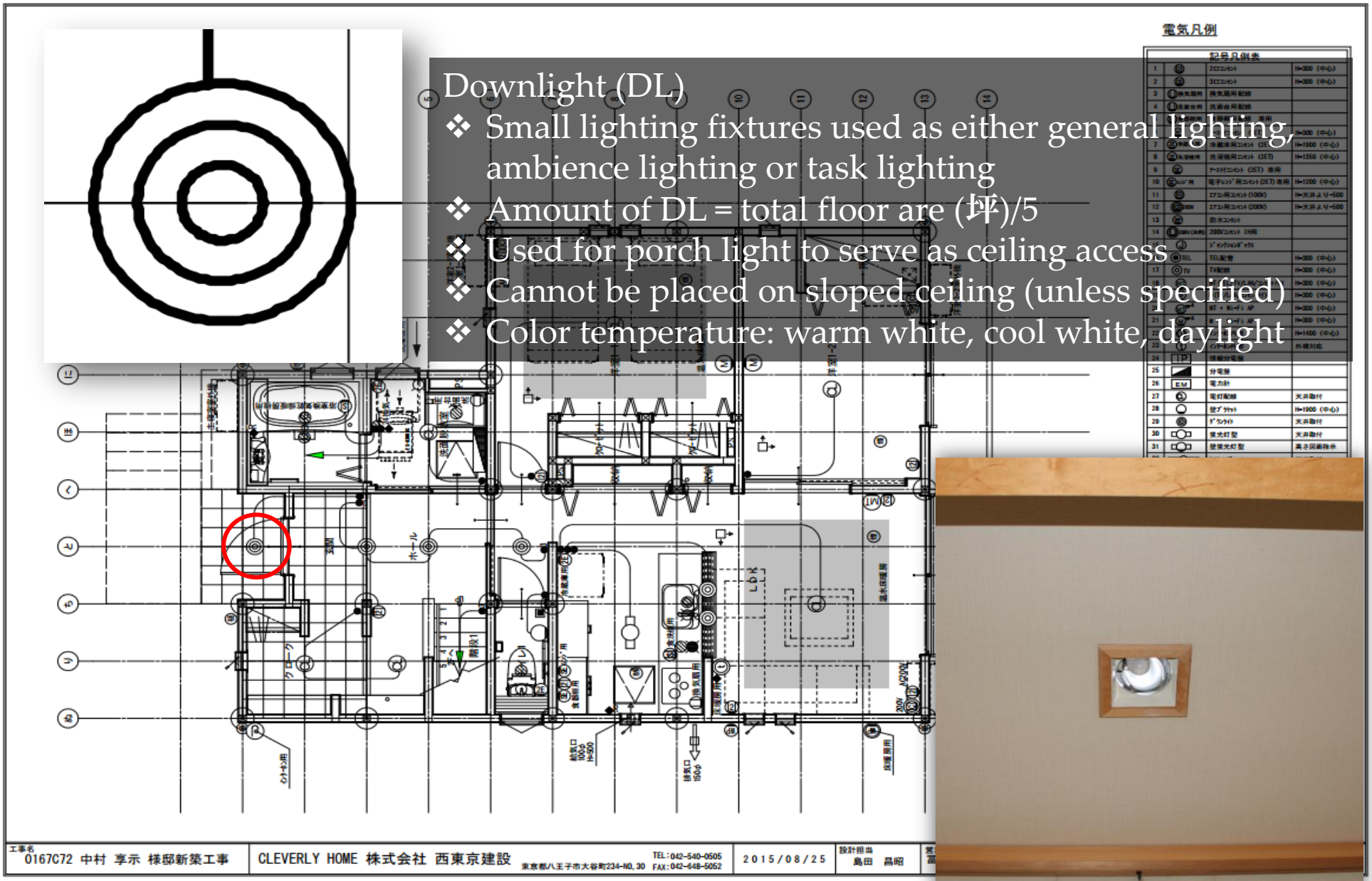
Frontier Intermediary Technology, Inc.

Basic EP – Lighting

Prepared by: IDr. Ruth Annalyn Acibar, CAD Supervisor
©Frontier Intermediary Technology, Inc. 2016

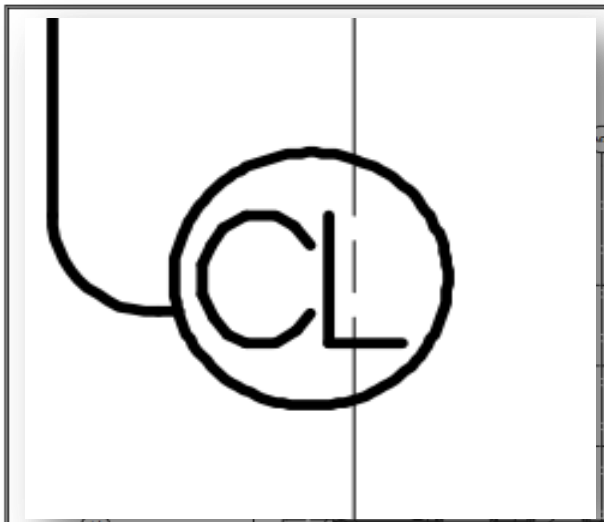
Downlight (DL)

- Small lighting fixtures used as either general lighting, ambience lighting or task lighting
- Amount of DL = total floor are (坪)/5
- Used for porch light to serve as ceiling access
- Cannot be placed on sloped ceiling (unless specified)
- Color temperature: warm white, cool white, daylight



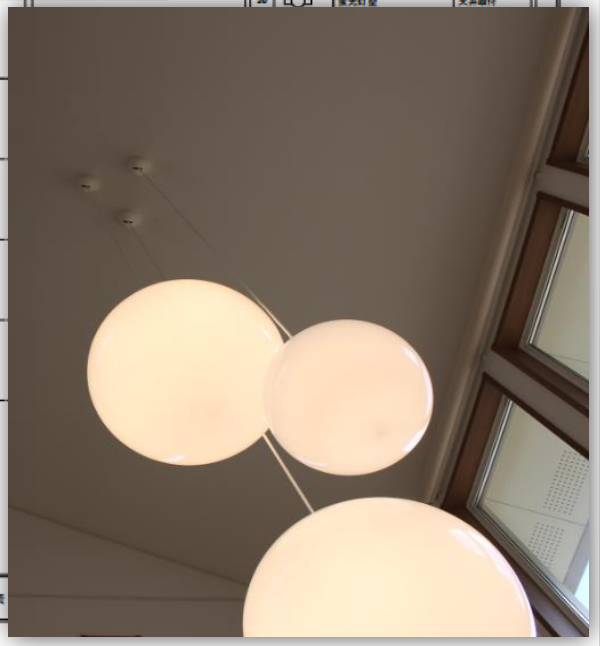
Basic EP – Lighting

Prepared by: IDr. Ruth Annalyn Acibar, CAD Supervisor
©Frontier Intermediary Technology, Inc. 2016



Ceiling Light (CL)

- May be compact light, surface-embedded, or suspended
- May be placed on sloping ceilings
- At least 1 lighting per room/area
- Color temperature: warm white, cool white, daylight

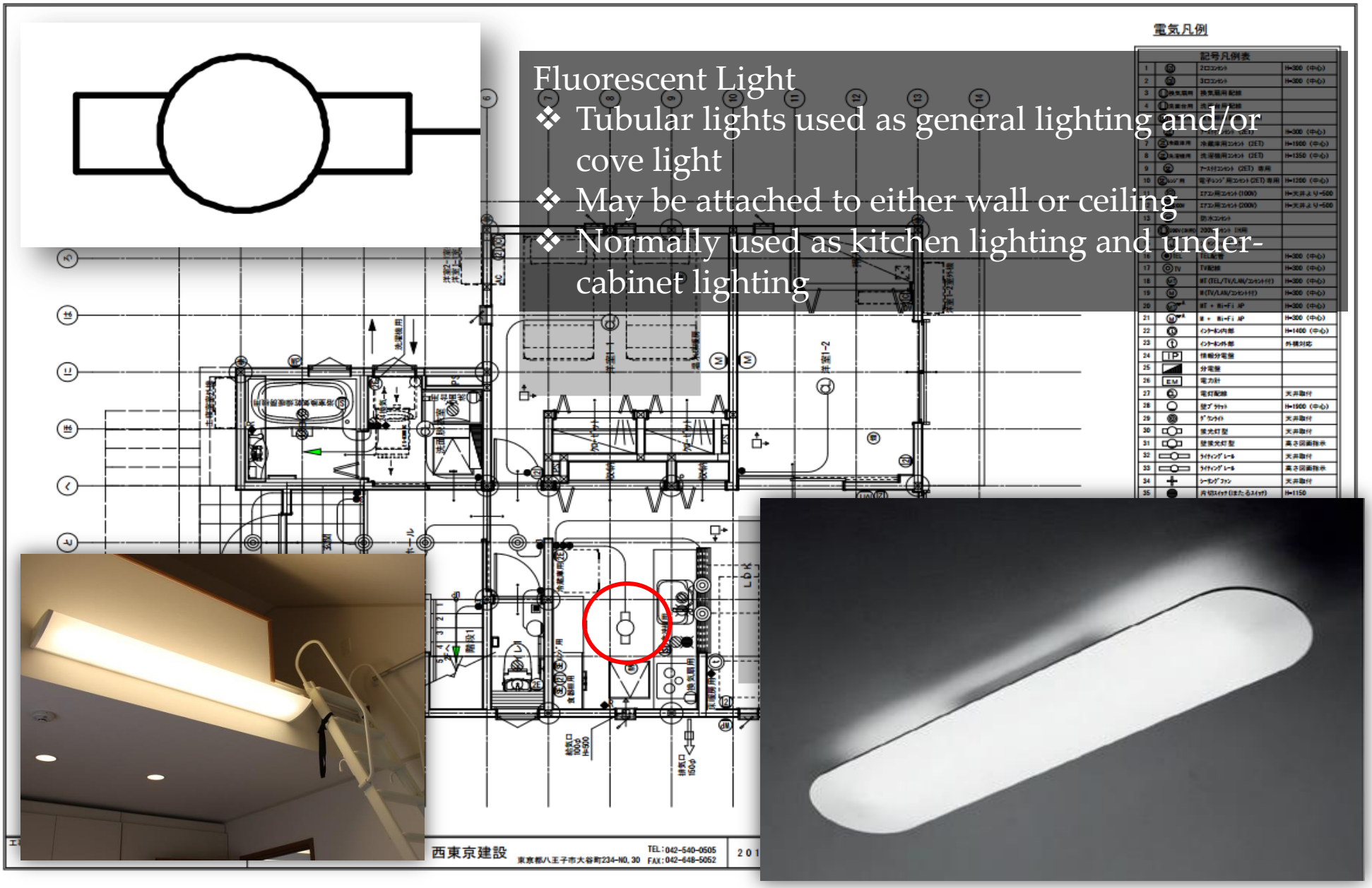


Basic EP – Lighting

Prepared by: IDr. Ruth Annalyn Acibar, CAD Supervisor
©Frontier Intermediary Technology, Inc. 2016

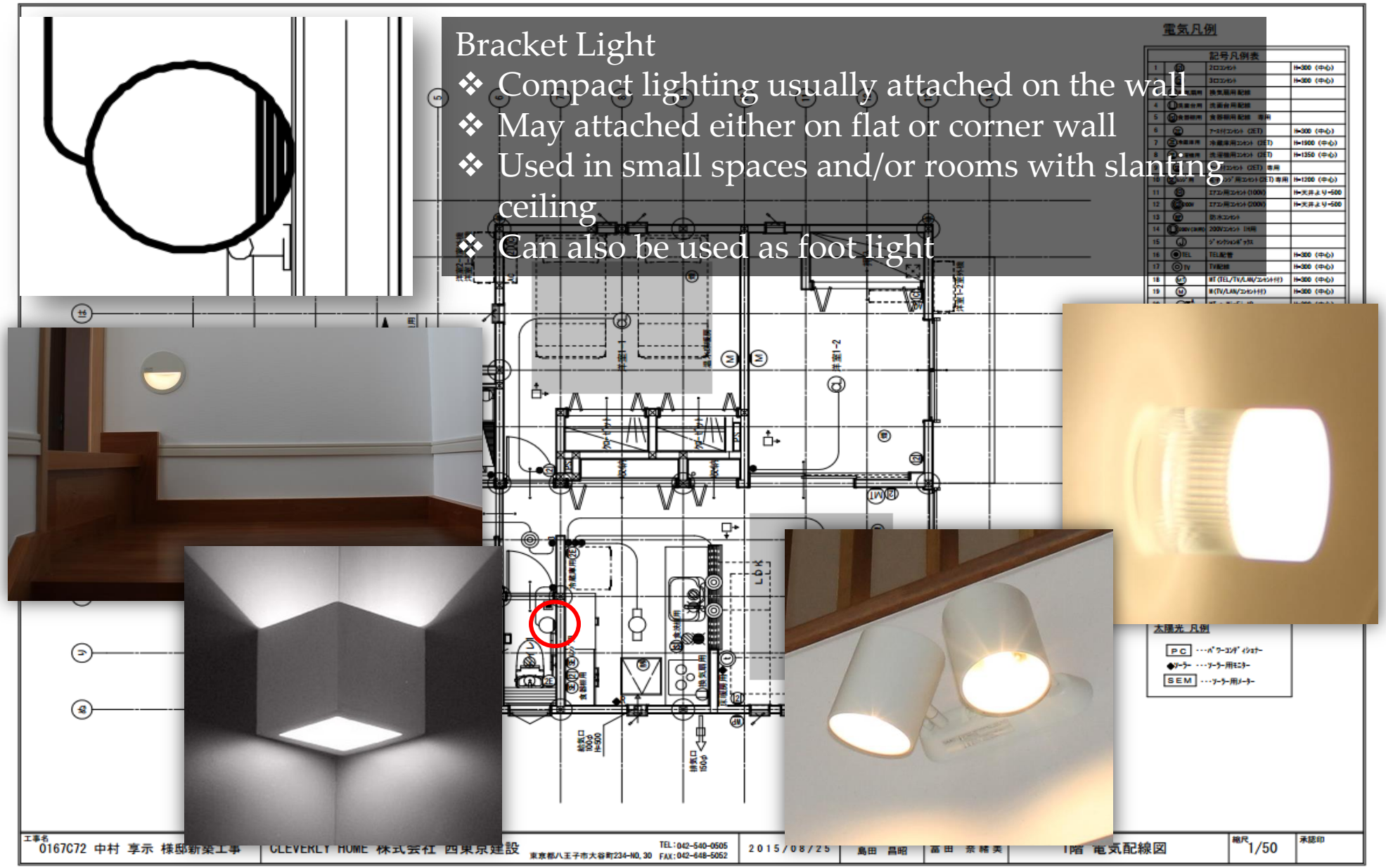
Fluorescent Light

- Tubular lights used as general lighting and/or cove light
- May be attached to either wall or ceiling
- Normally used as kitchen lighting and under-cabinet lighting



Basic EP – Lighting

Prepared by: IDr. Ruth Annalyn Acibar, CAD Supervisor
©Frontier Intermediary Technology, Inc. 2016



Prepared by: IDr. Ruth Annalyn Acibar, CAD Supervisor
©Frontier Intermediary Technology, Inc. 2016

SWITCHES

FIT INC.

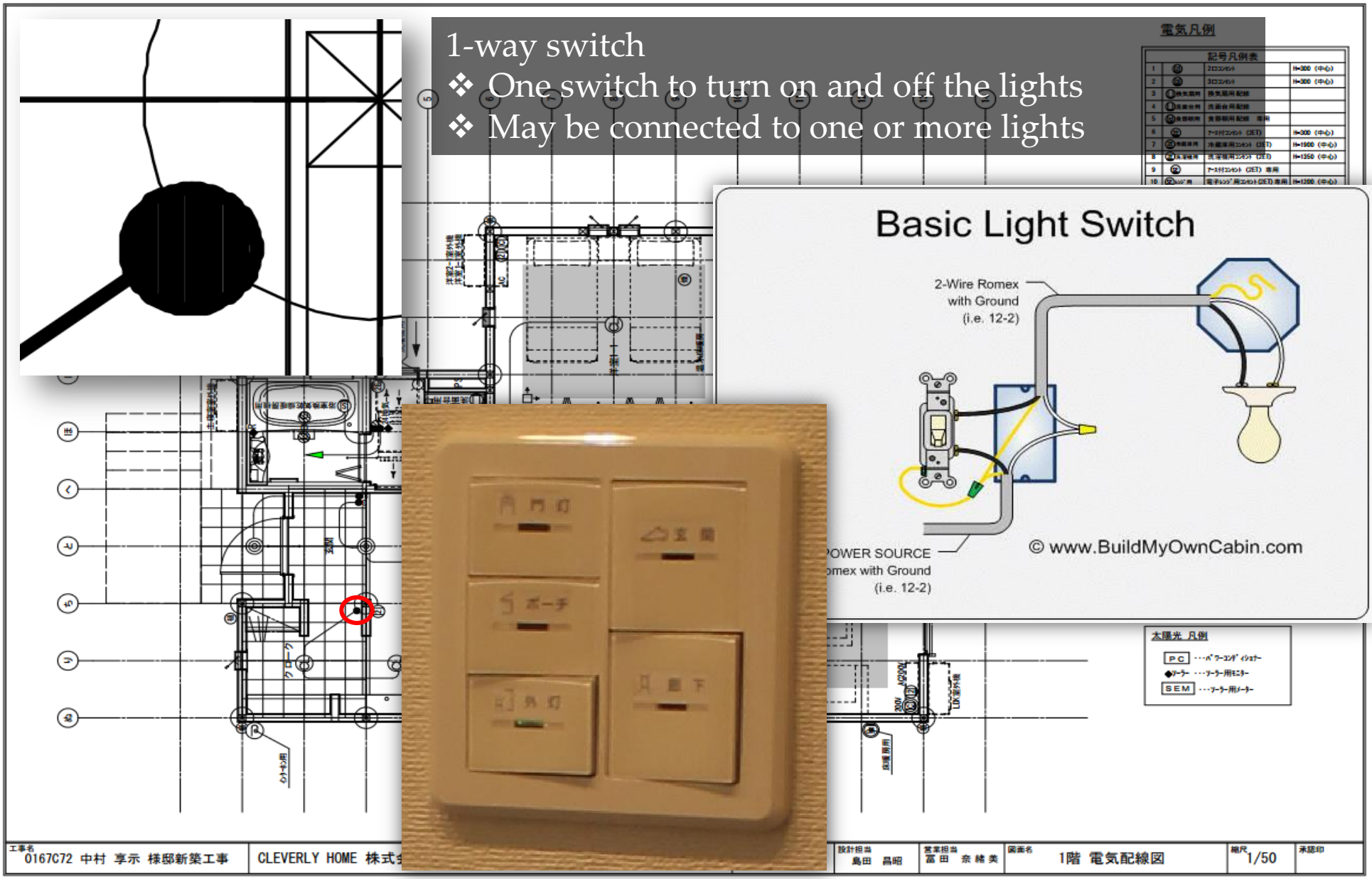
Frontier Intermediary Technology, Inc.

Basic EP – Switches

Prepared by: IDr. Ruth Annalyn Acibar, CAD Supervisor
©Frontier Intermediary Technology, Inc. 2016

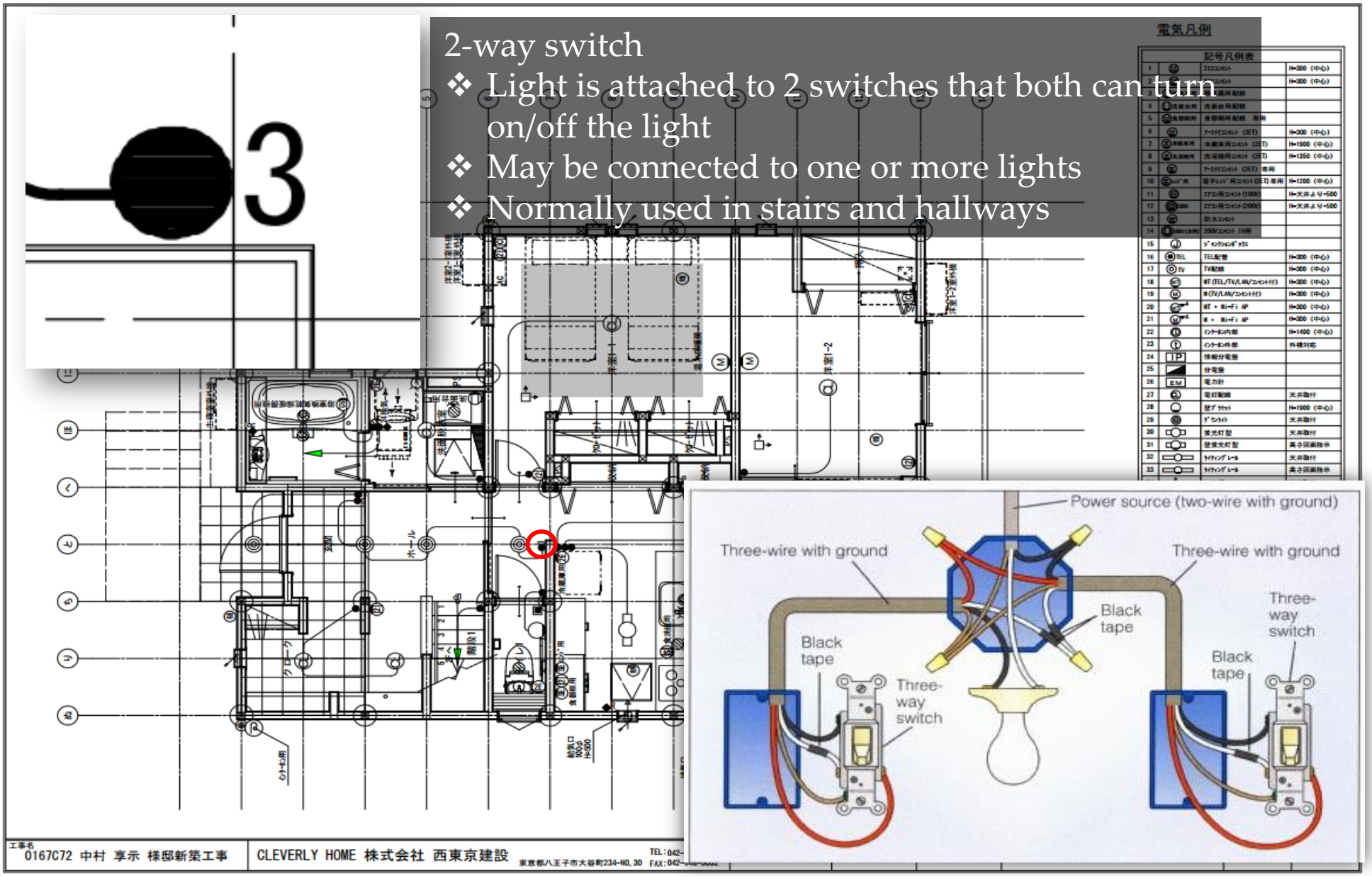
1-way switch

- ❖ One switch to turn on and off the lights
- ❖ May be connected to one or more lights



Basic EP – Switches

Prepared by: IDr. Ruth Annalyn Acibar, CAD Supervisor
©Frontier Intermediary Technology, Inc. 2016

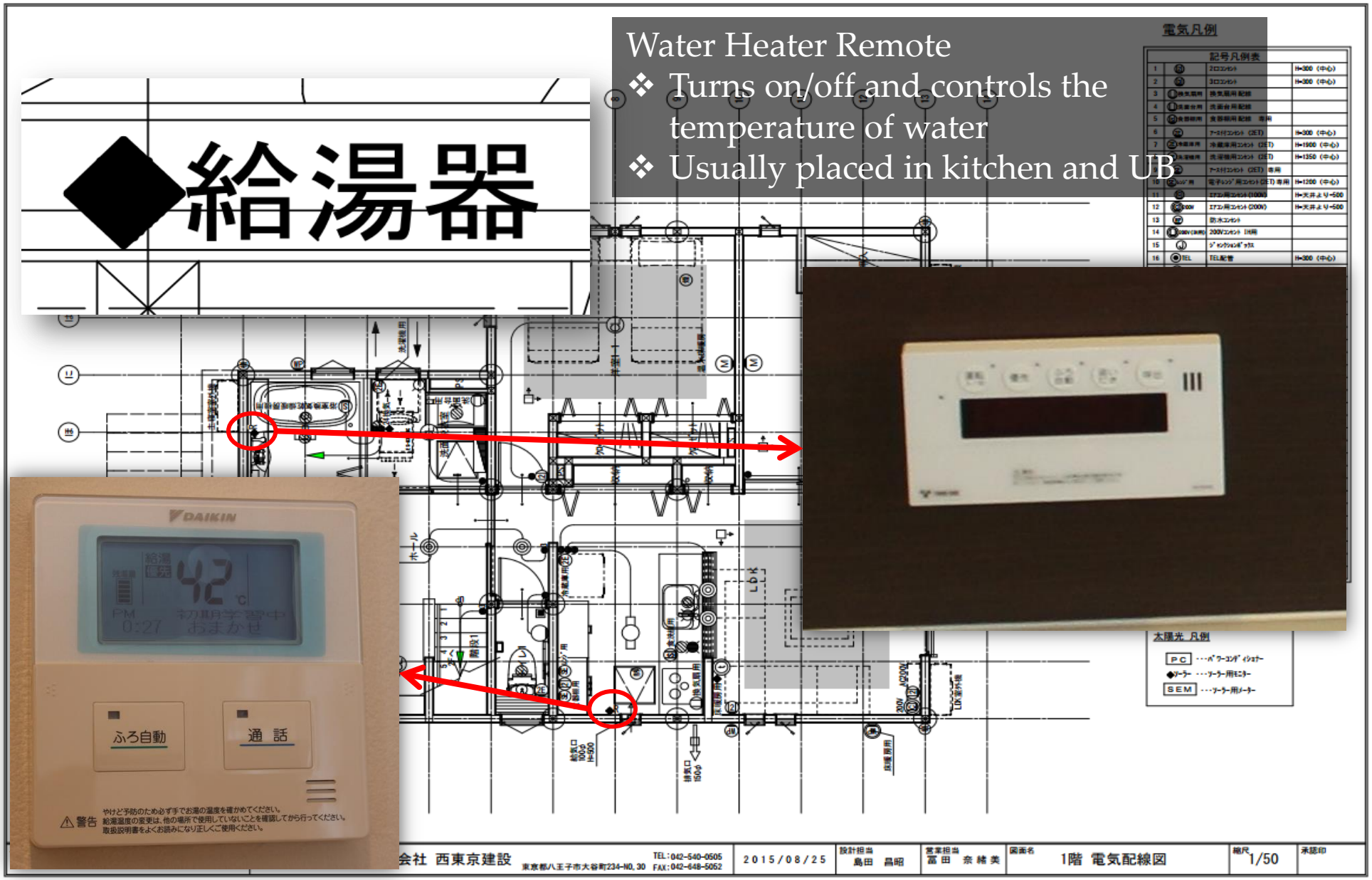


2-way switch

- Light is attached to 2 switches that both can turn on/off the light
- May be connected to one or more lights
- Normally used in stairs and hallways

Basic EP – Switches

Prepared by: IDr. Ruth Annalyn Acibar, CAD Supervisor
©Frontier Intermediary Technology, Inc. 2016

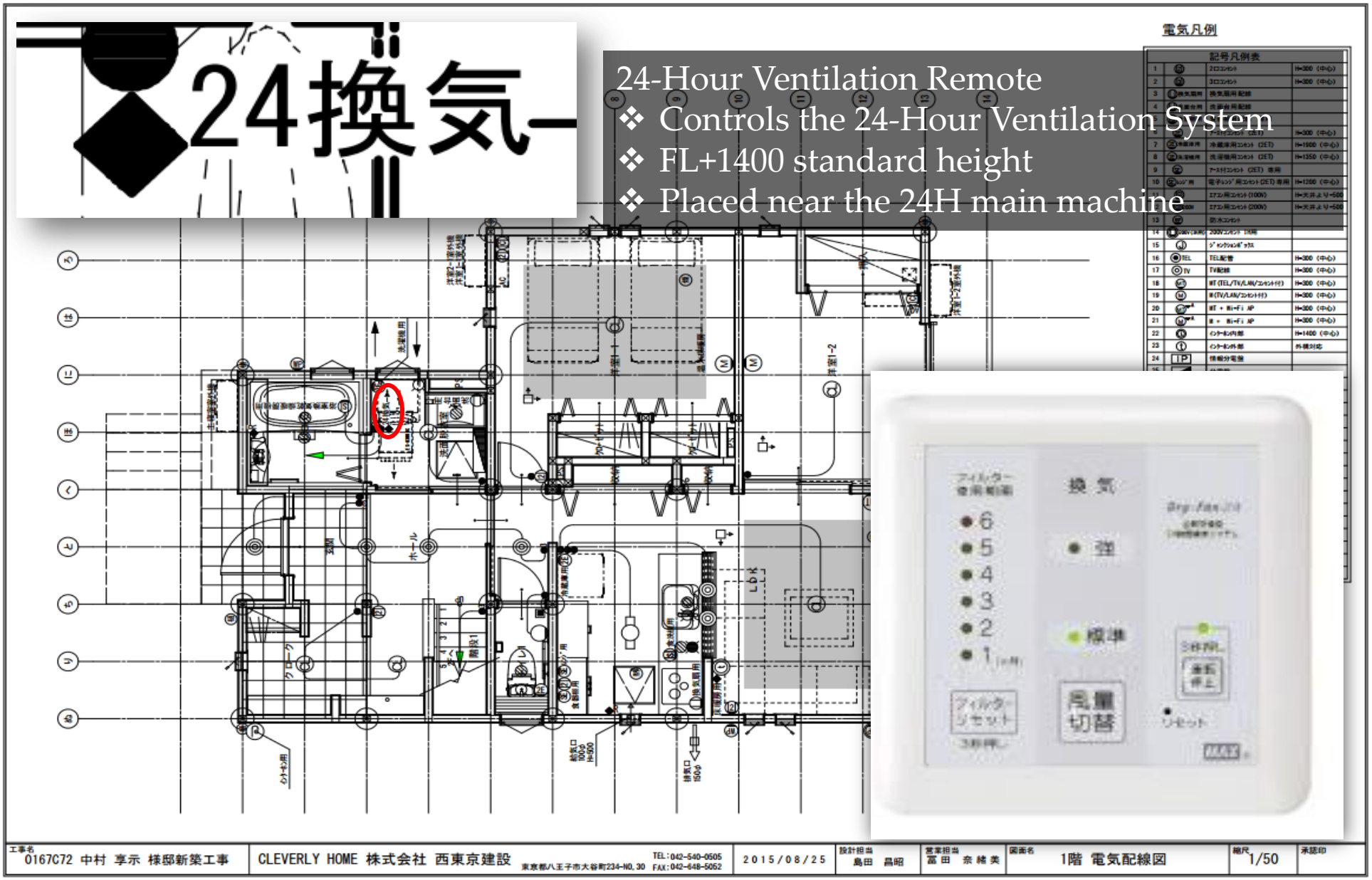


Water Heater Remote

- Turns on/off and controls the temperature of water
- Usually placed in kitchen and UB

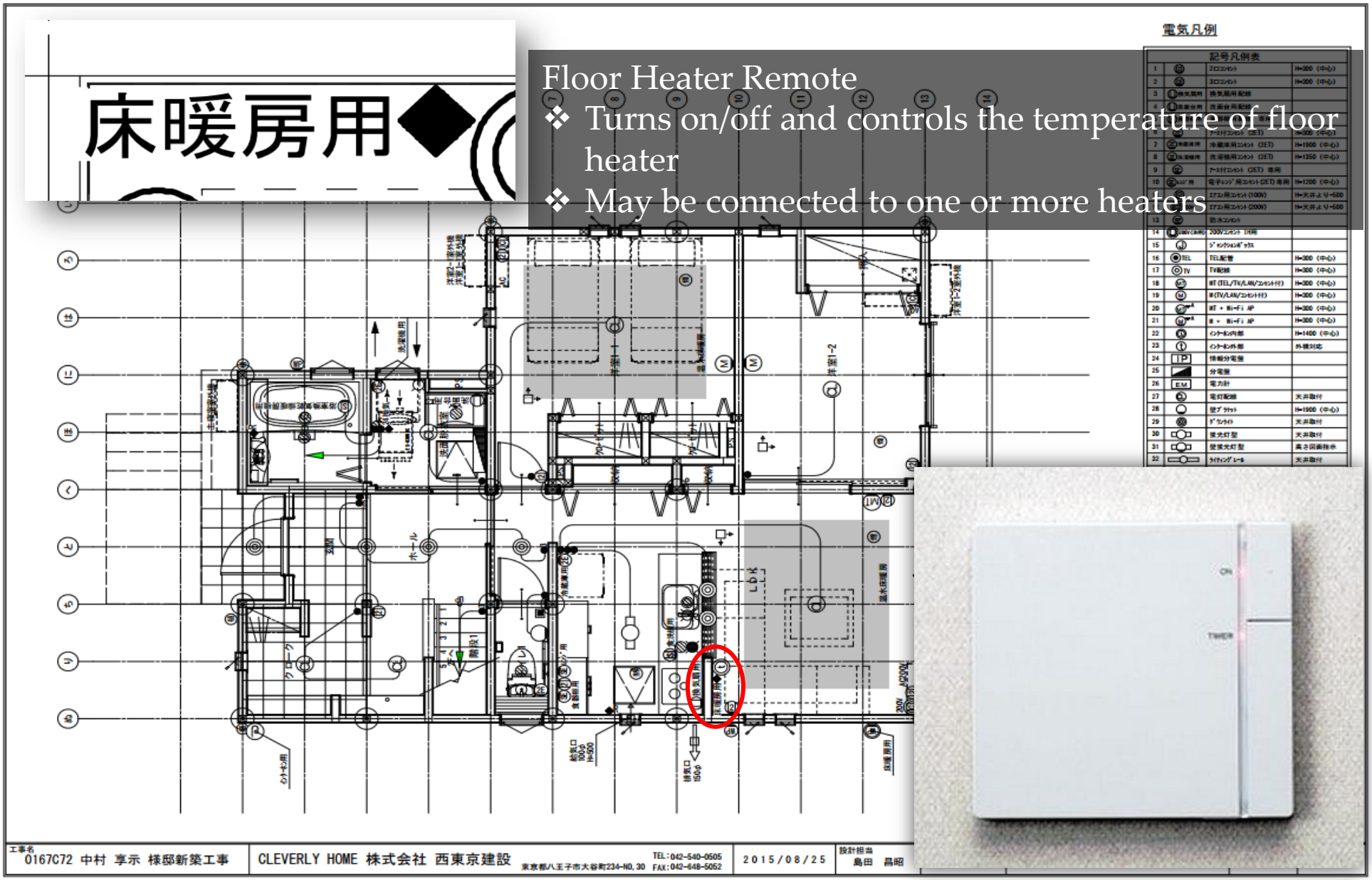
Basic EP – Switches

Prepared by: IDr. Ruth Annalyn Acibar, CAD Supervisor
©Frontier Intermediary Technology, Inc. 2016



Basic EP – Switches

Prepared by: IDr. Ruth Annalyn Acibar, CAD Supervisor
©Frontier Intermediary Technology, Inc. 2016

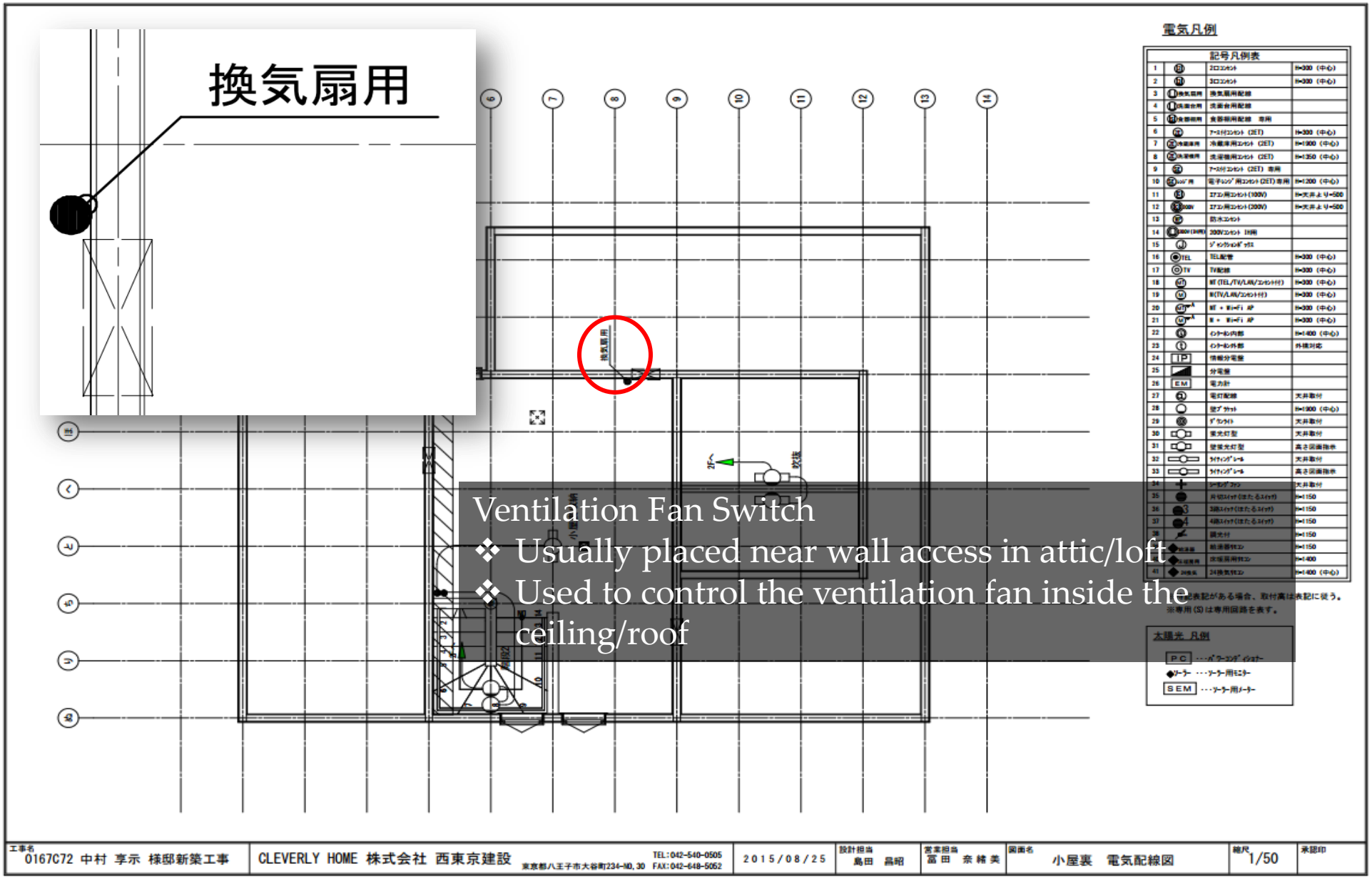


Floor Heater Remote

- Turns on/off and controls the temperature of floor heater
- May be connected to one or more heaters

Basic EP – Switches

Prepared by: IDr. Ruth Annalyn Acibar, CAD Supervisor
©Frontier Intermediary Technology, Inc. 2016



Ventilation Fan Switch

- Usually placed near wall access in attic/loft
- Used to control the ventilation fan inside the ceiling/roof

Prepared by: IDr. Ruth Annalyn Acibar, CAD Supervisor
©Frontier Intermediary Technology, Inc. 2016

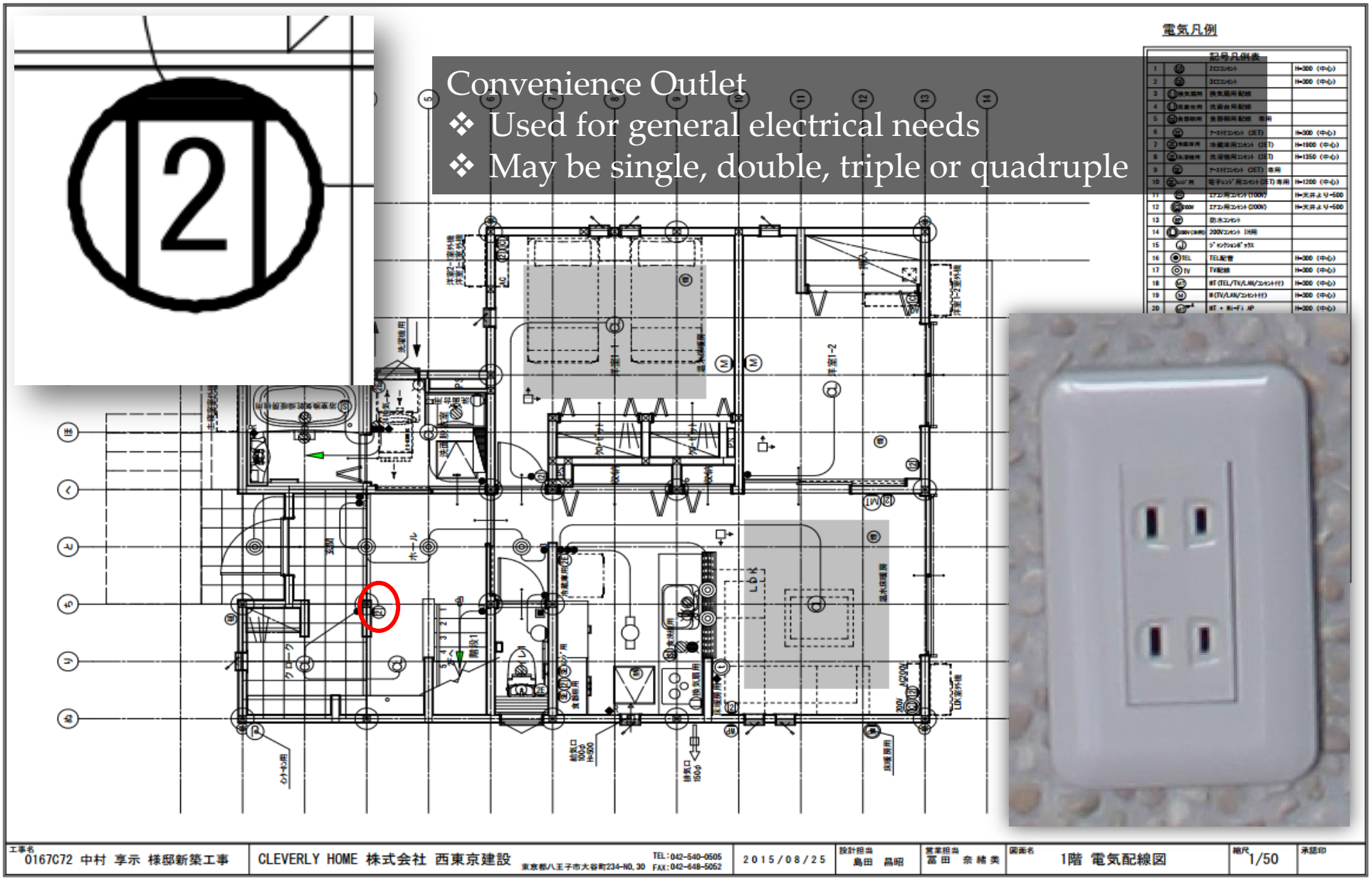
OUTLETS

FIT INC.

Frontier Intermediary Technology , Inc.

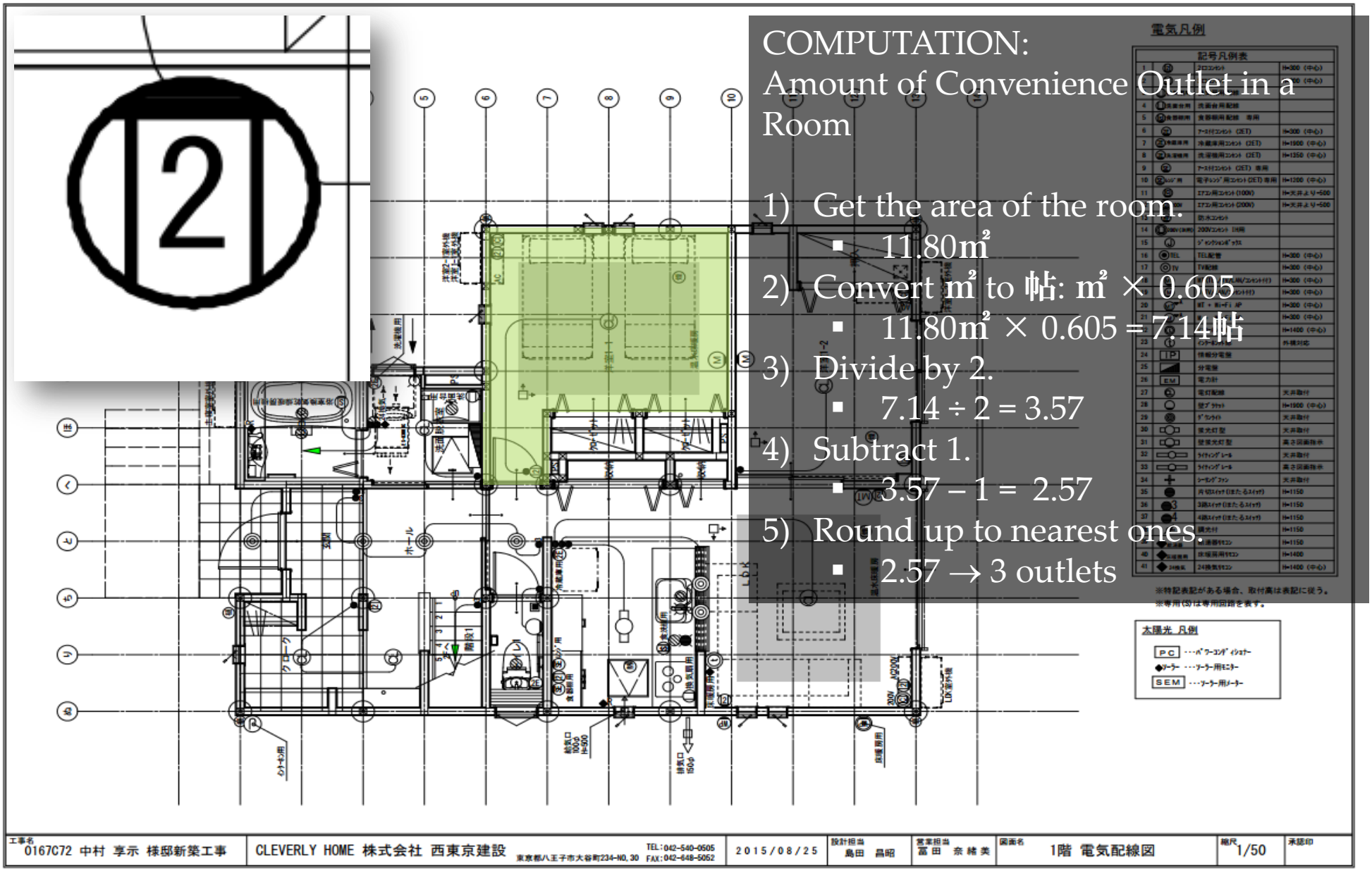
Basic EP – Outlets

Prepared by: IDr. Ruth Annalyn Acibar, CAD Supervisor
©Frontier Intermediary Technology, Inc. 2016



Basic EP – Outlets

Prepared by: IDr. Ruth Annalyn Acibar, CAD Supervisor
©Frontier Intermediary Technology, Inc. 2016

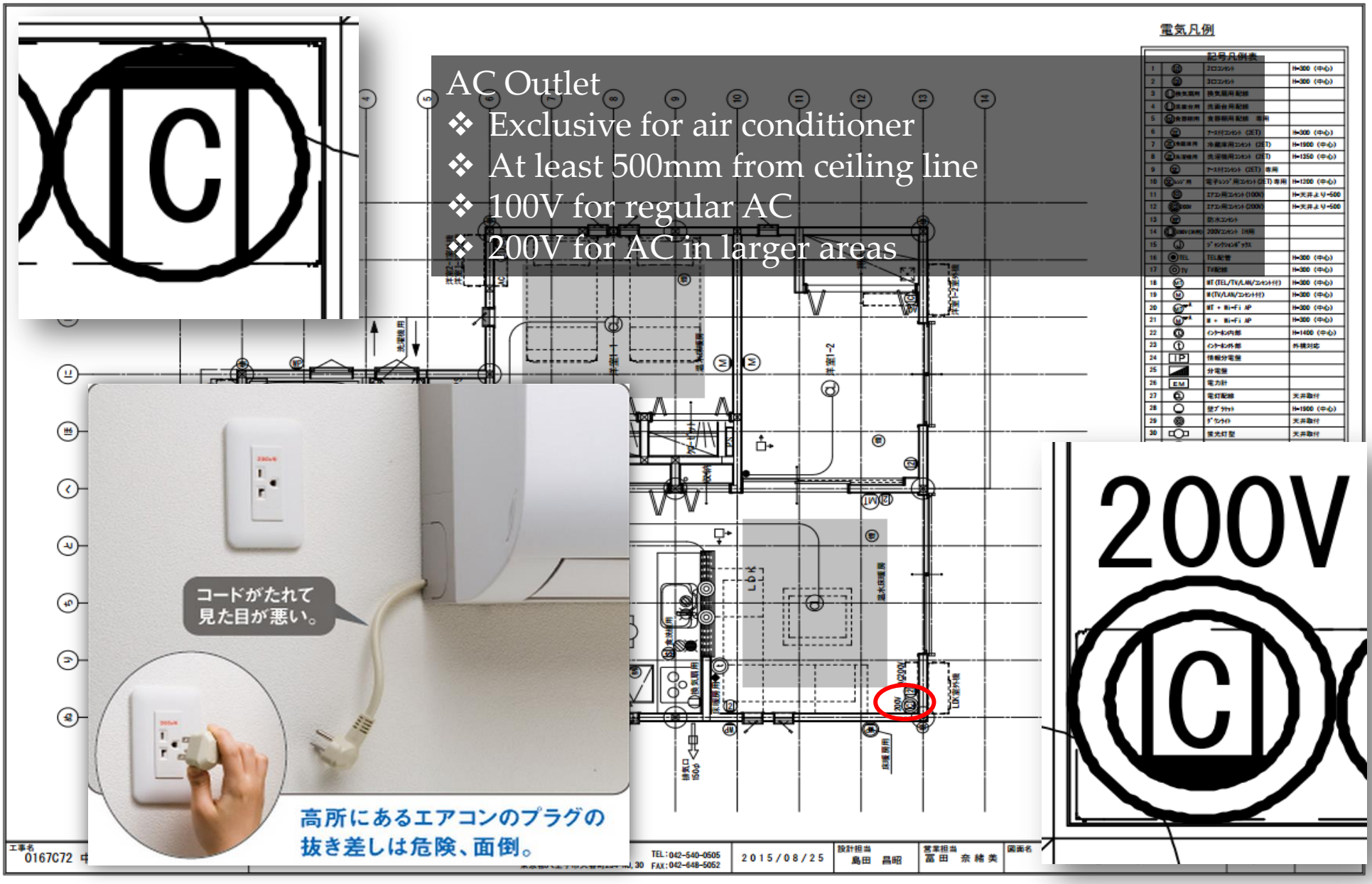


COMPUTATION:
Amount of Convenience Outlet in a Room

1) Get the area of the room.
   - 11.80㎡
2) Convert ㎡ to 帖: ㎡ × 0.605
   - 11.80㎡ × 0.605 = 7.14帖
3) Divide by 2.
   - 7.14 ÷ 2 = 3.57
4) Subtract 1.
   - 3.57 – 1 = 2.57
5) Round up to nearest ones.
   - 2.57 → 3 outlets

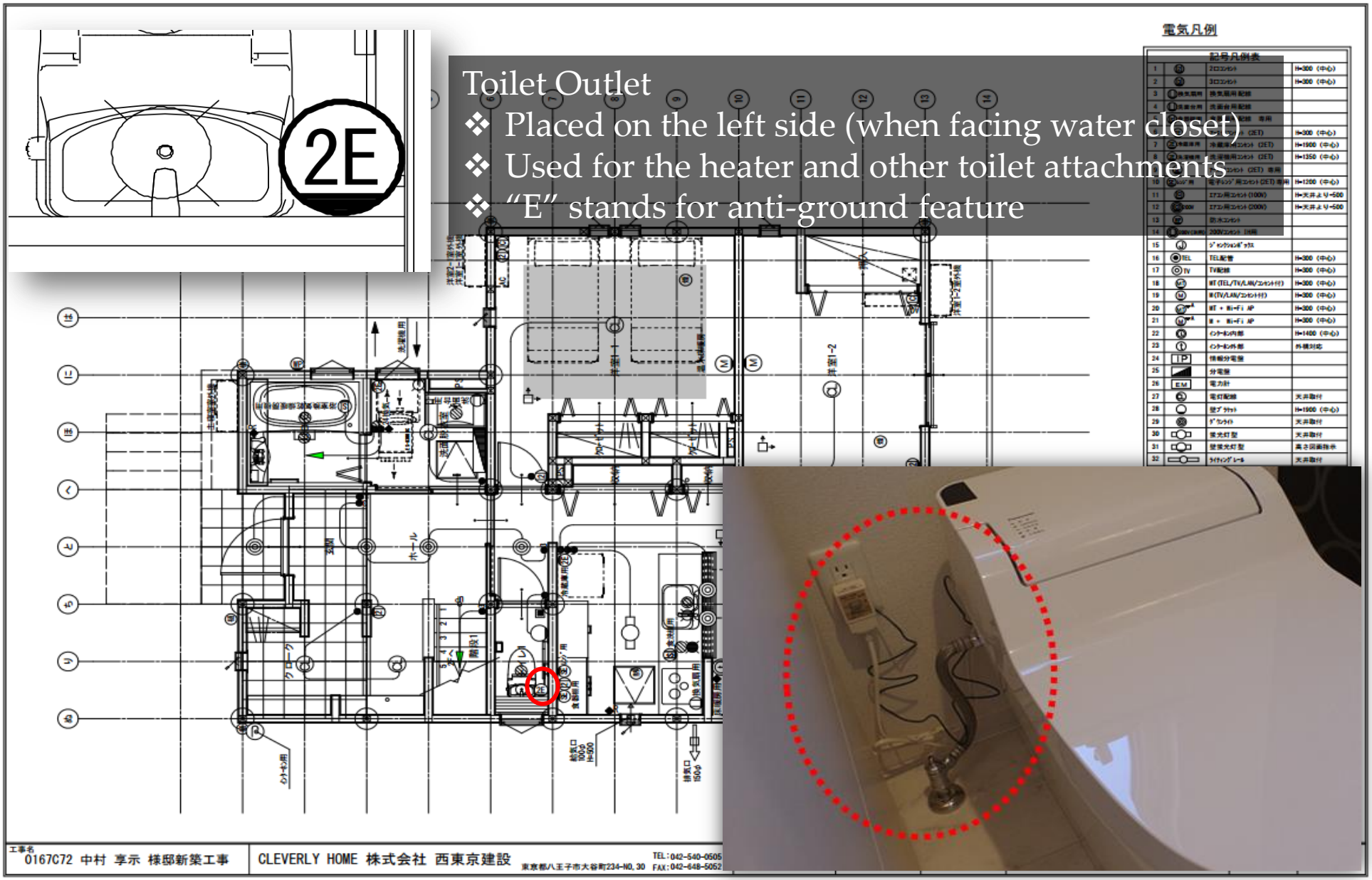
Basic EP – Outlets

Prepared by: IDr. Ruth Annalyn Acibar, CAD Supervisor
©Frontier Intermediary Technology, Inc. 2016



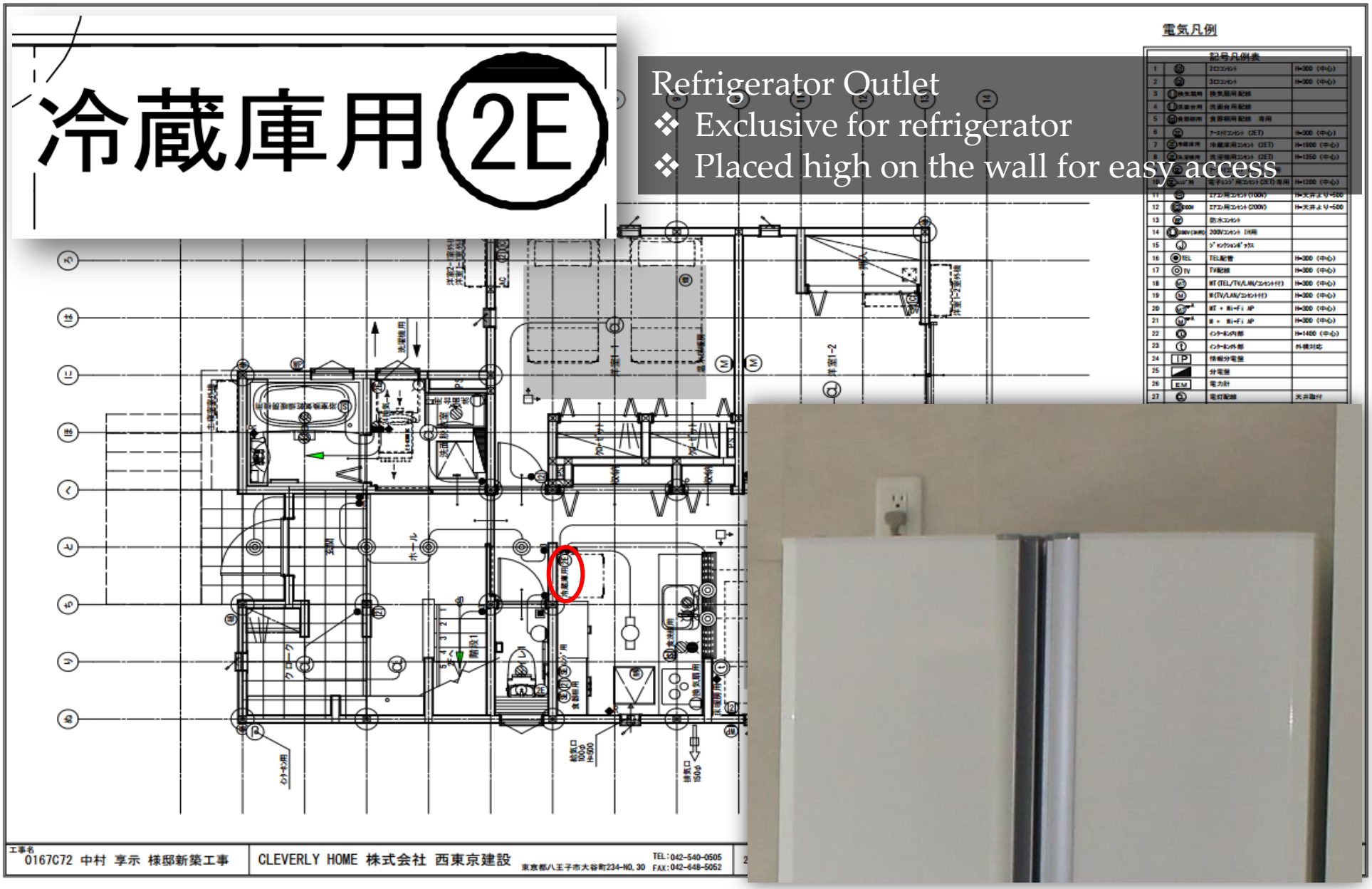
Basic EP – Outlets

Prepared by: IDr. Ruth Annalyn Acibar, CAD Supervisor
©Frontier Intermediary Technology, Inc. 2016



Basic EP – Outlets

Prepared by: IDr. Ruth Annalyn Acibar, CAD Supervisor
©Frontier Intermediary Technology, Inc. 2016

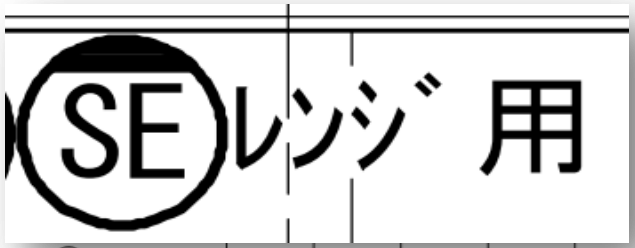


Refrigerator Outlet

- Exclusive for refrigerator
- Placed high on the wall for easy access

Basic EP – Outlets

Prepared by: IDr. Ruth Annalyn Acibar, CAD Supervisor
©Frontier Intermediary Technology, Inc. 2016

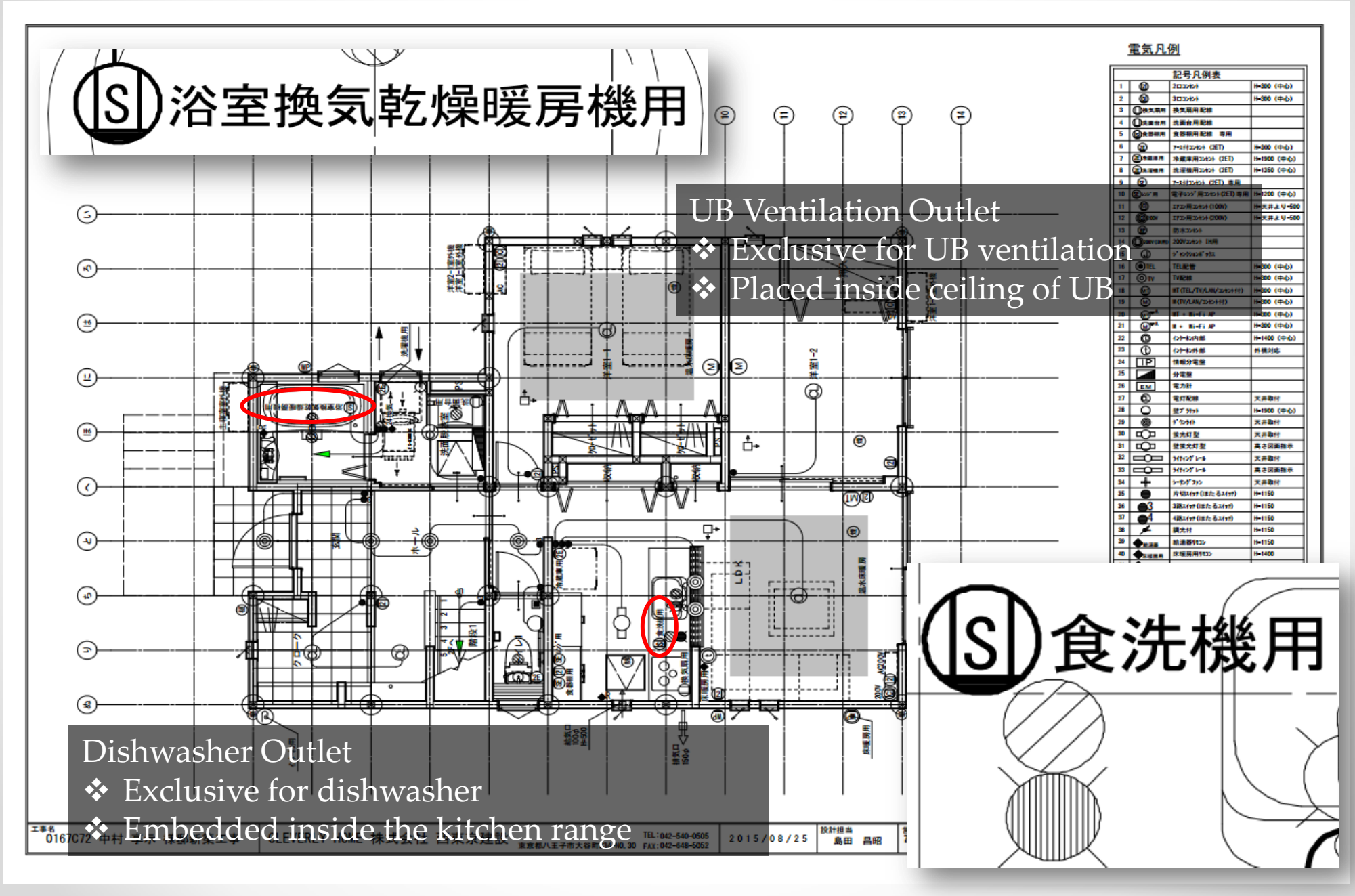


Range Outlet
- ❖ Exclusive for oven
- ❖ Placed on the counter or inside dish cabinet

Dish Cabinet Outlet
- ❖ For small appliances inside the dish cabinet
- ❖ Placed on the counter or inside cabinet

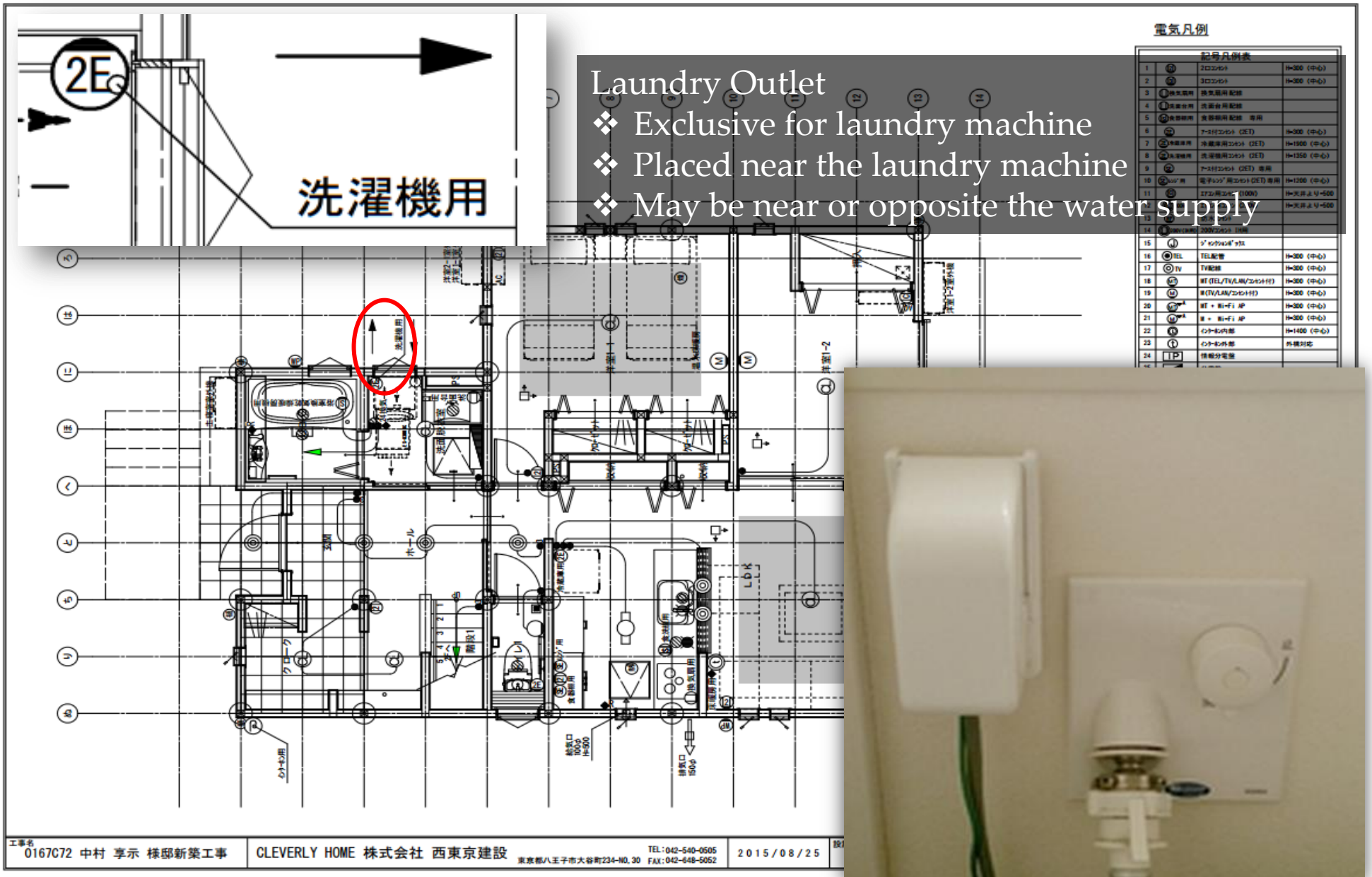
Basic EP – Outlets

Prepared by: IDr. Ruth Annalyn Acibar, CAD Supervisor
©Frontier Intermediary Technology, Inc. 2016



Basic EP – Outlets

Prepared by: IDr. Ruth Annalyn Acibar, CAD Supervisor
©Frontier Intermediary Technology, Inc. 2016

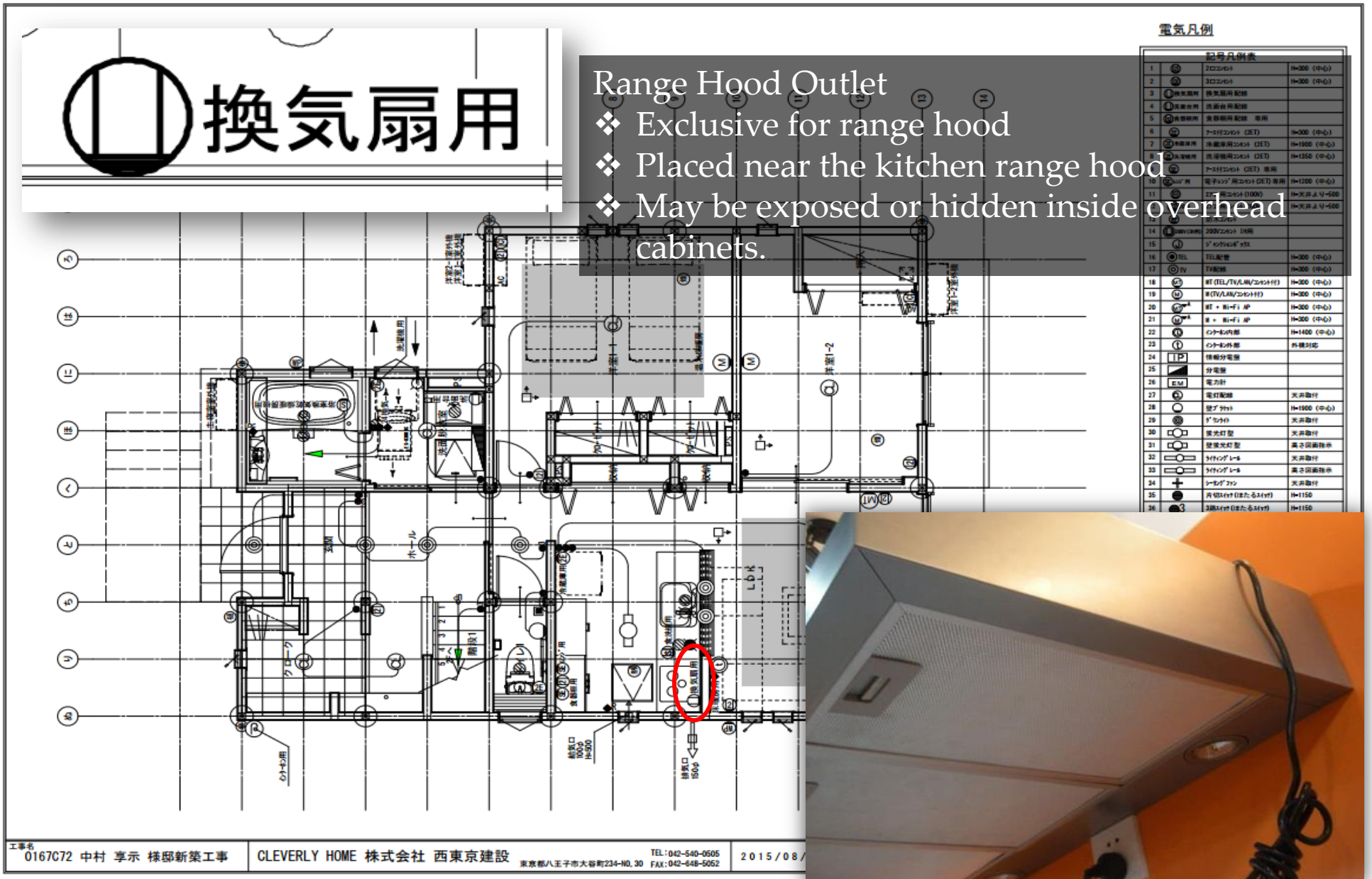


Laundry Outlet

- Exclusive for laundry machine
- Placed near the laundry machine
- May be near or opposite the water supply

Basic EP – Outlets

Prepared by: IDr. Ruth Annalyn Acibar, CAD Supervisor
©Frontier Intermediary Technology, Inc. 2016

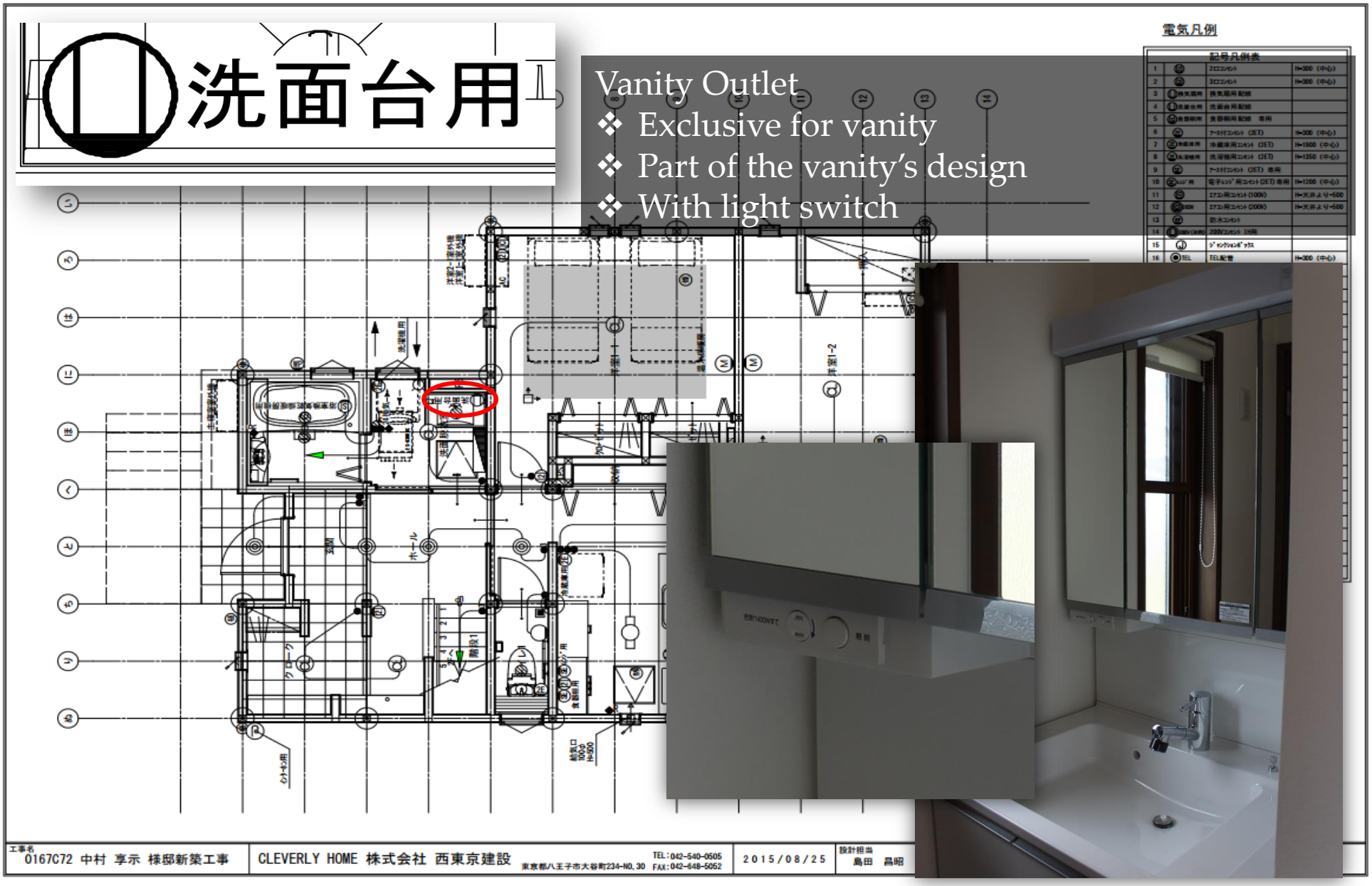


Range Hood Outlet

- Exclusive for range hood
- Placed near the kitchen range hood
- May be exposed or hidden inside overhead cabinets.

Basic EP – Outlets

Prepared by: IDr. Ruth Annalyn Acibar, CAD Supervisor
©Frontier Intermediary Technology, Inc. 2016



Vanity Outlet

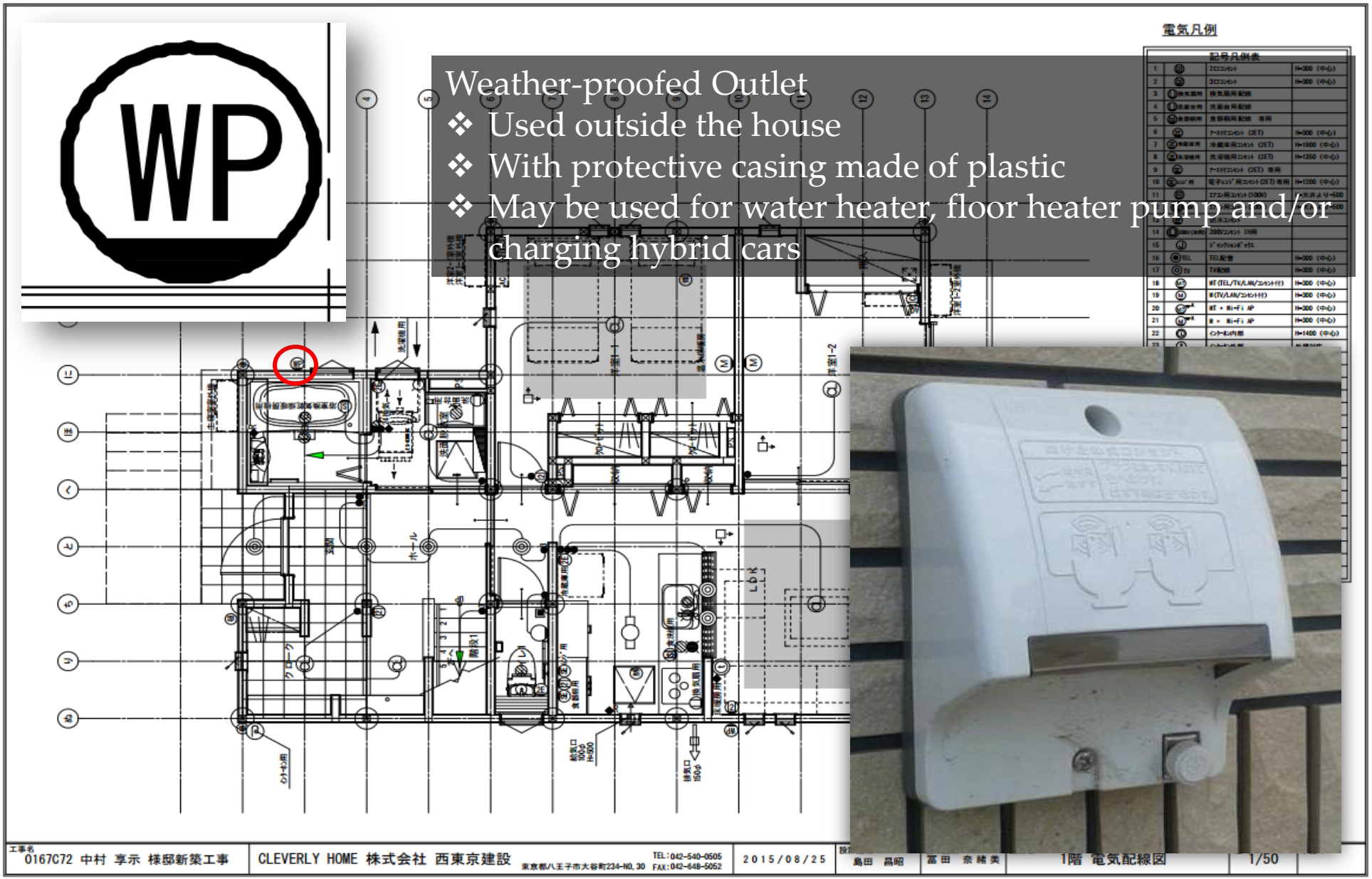
- Exclusive for vanity
- Part of the vanity's design
- With light switch

Basic EP – Outlets

Prepared by: IDr. Ruth Annalyn Acibar, CAD Supervisor
©Frontier Intermediary Technology, Inc. 2016

Weather-proofed Outlet

- Used outside the house
- With protective casing made of plastic
- May be used for water heater, floor heater pump and/or charging hybrid cars

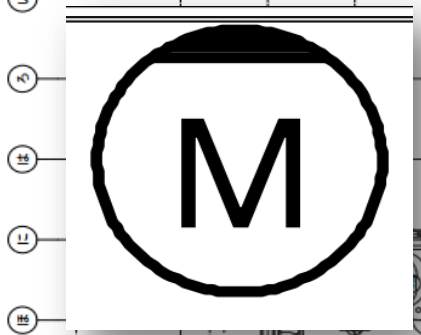


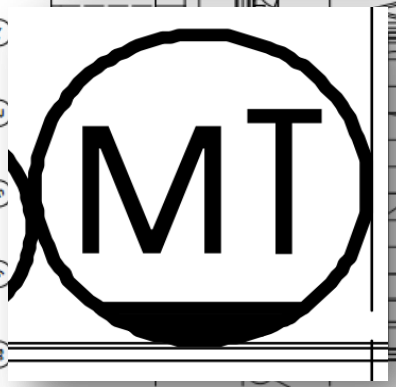
Basic EP – Outlets

Prepared by: IDr. Ruth Annalyn Acibar, CAD Supervisor
©Frontier Intermediary Technology, Inc. 2016

MULTIMEDIA OUTLETS

CLEVERLY HOMES





- 2 types:
  - Outlet + TV + Lan
  - Outlet + TV + Lan + Telephone
- Counted as 1 convenience outlet
- Placed in areas usually occupied by owners
- Requirements:
  - M → 3 outlets per house
  - MT → 2 outlets per house

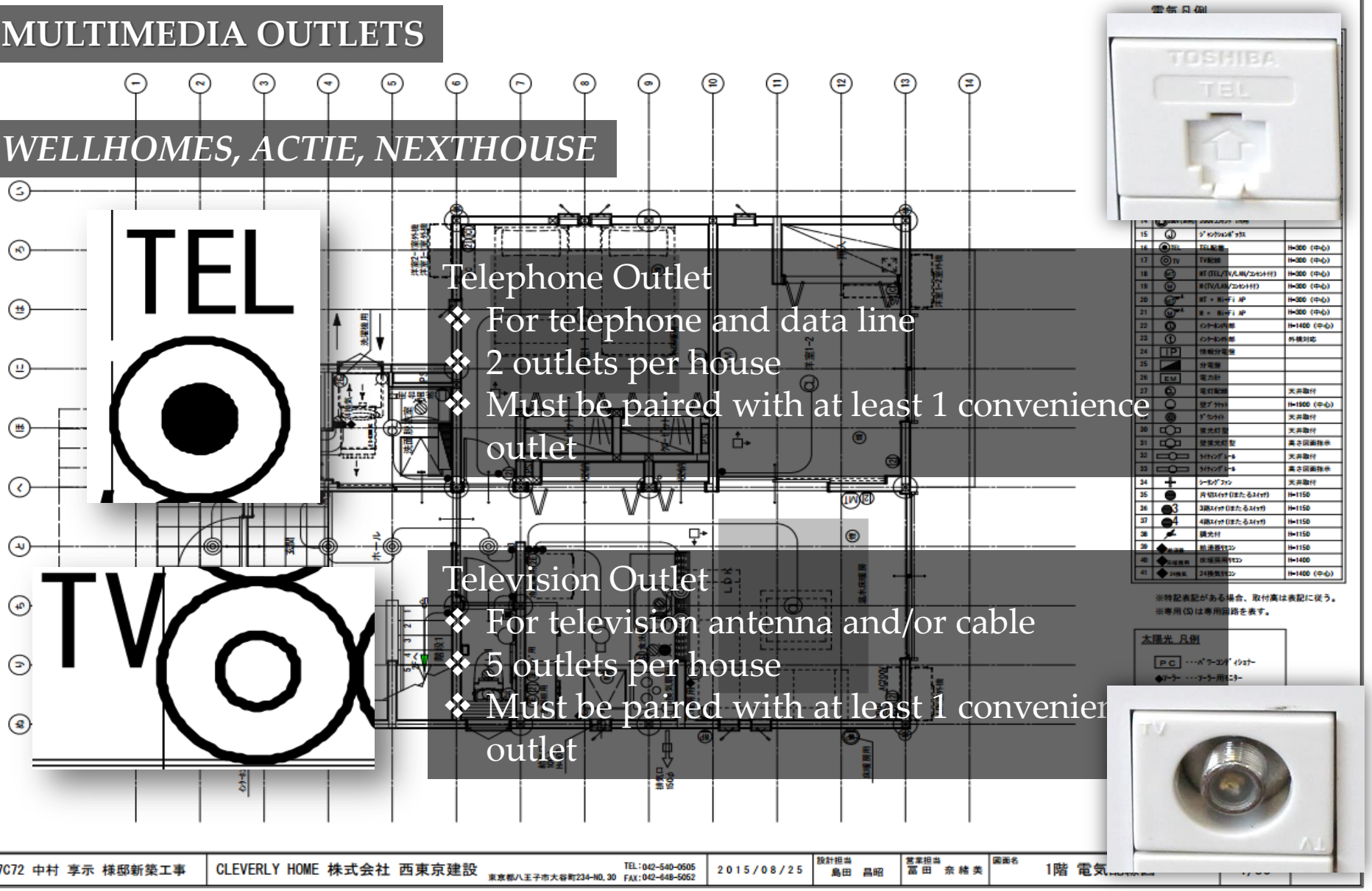
工事名 0167C72 中村 享示 様邸新築工事 | CLEVERLY HOME 株式会社 西東京建設 東京都八王子市大谷町234-N0, 30 TEL:042-540-0505 FAX:042-648-5062 | 2015/08/25 | 設計担当 島田 昌昭 | 営業担当 冨田 奈緒美 | 図面名 1階 電気配線図 | 縮尺 1/50 | 承認印

Basic EP – Outlets

Prepared by: IDr. Ruth Annalyn Acibar, CAD Supervisor
©Frontier Intermediary Technology, Inc. 2016

MULTIMEDIA OUTLETS

WELLHOMES, ACTIE, NEXTHOUSE



Telephone Outlet

- For telephone and data line
- 2 outlets per house
- Must be paired with at least 1 convenience outlet

Television Outlet

- For television antenna and/or cable
- 5 outlets per house
- Must be paired with at least 1 convenience outlet

Prepared by: IDr. Ruth Annalyn Acibar, CAD Supervisor
©Frontier Intermediary Technology, Inc. 2016

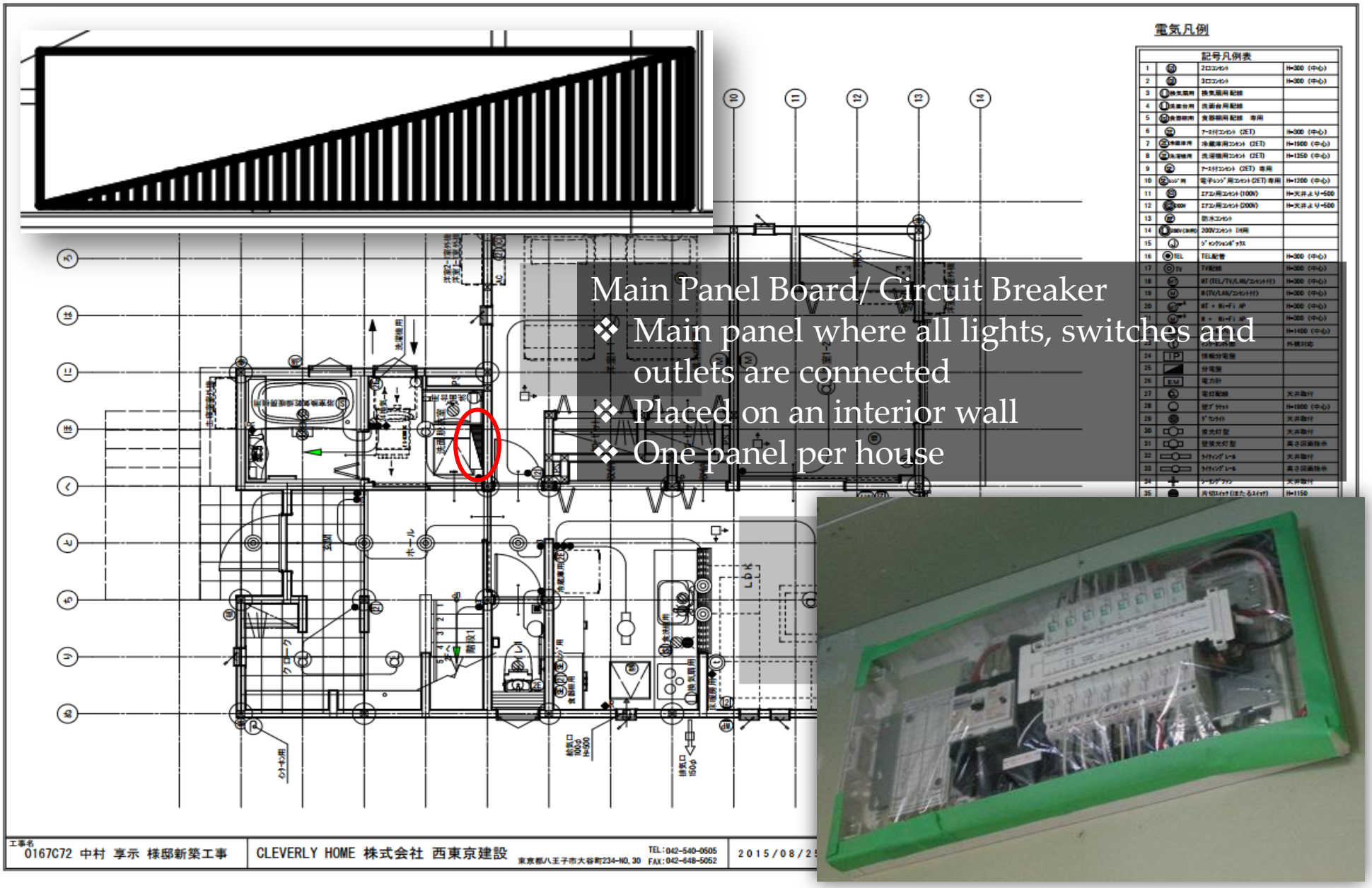
OTHERS

FIT INC.

Frontier Intermediary Technology , Inc.

Basic EP – Others

Prepared by: IDr. Ruth Annalyn Acibar, CAD Supervisor
©Frontier Intermediary Technology, Inc. 2016

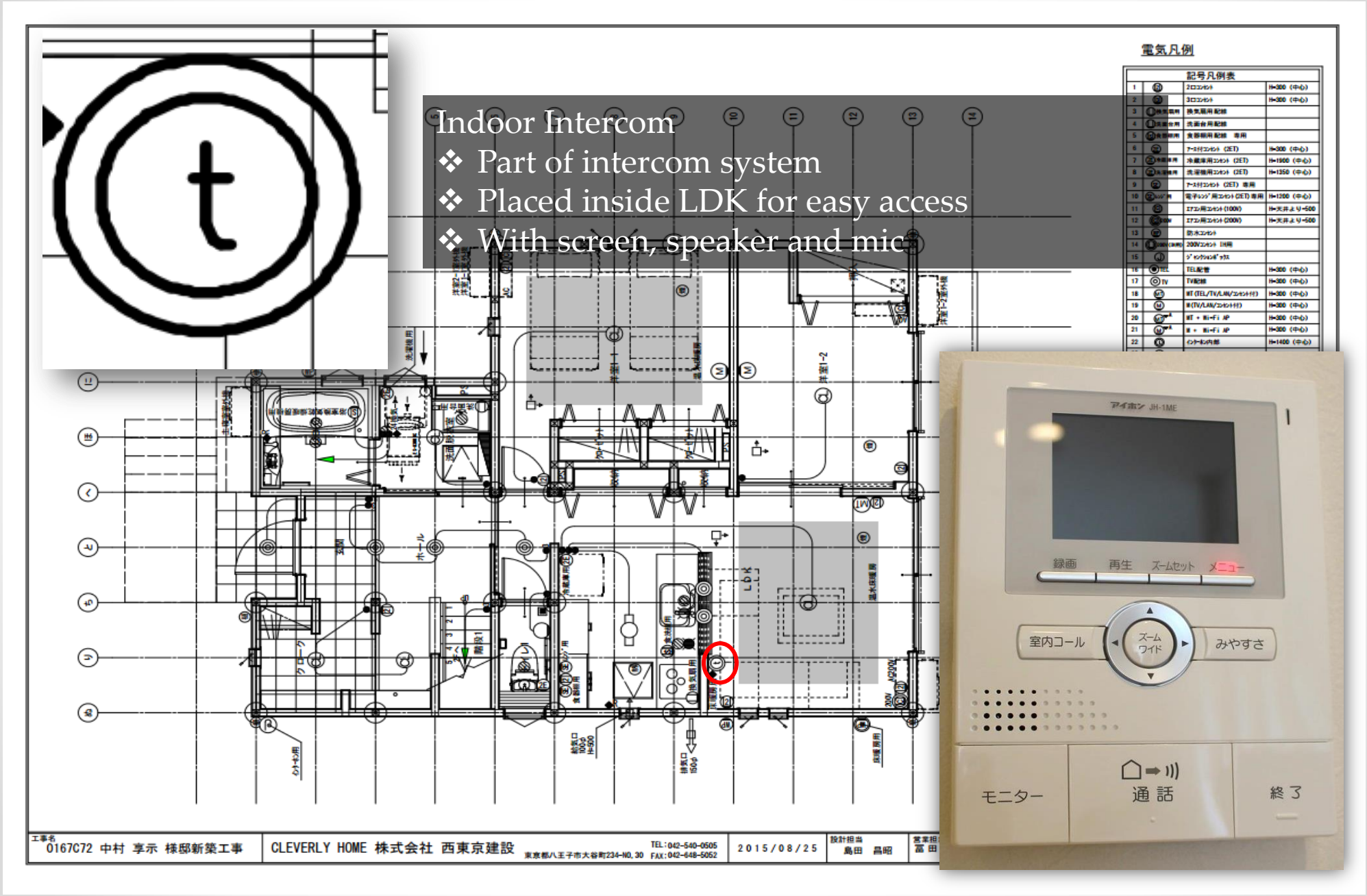


Main Panel Board/ Circuit Breaker

- Main panel where all lights, switches and outlets are connected
- Placed on an interior wall
- One panel per house

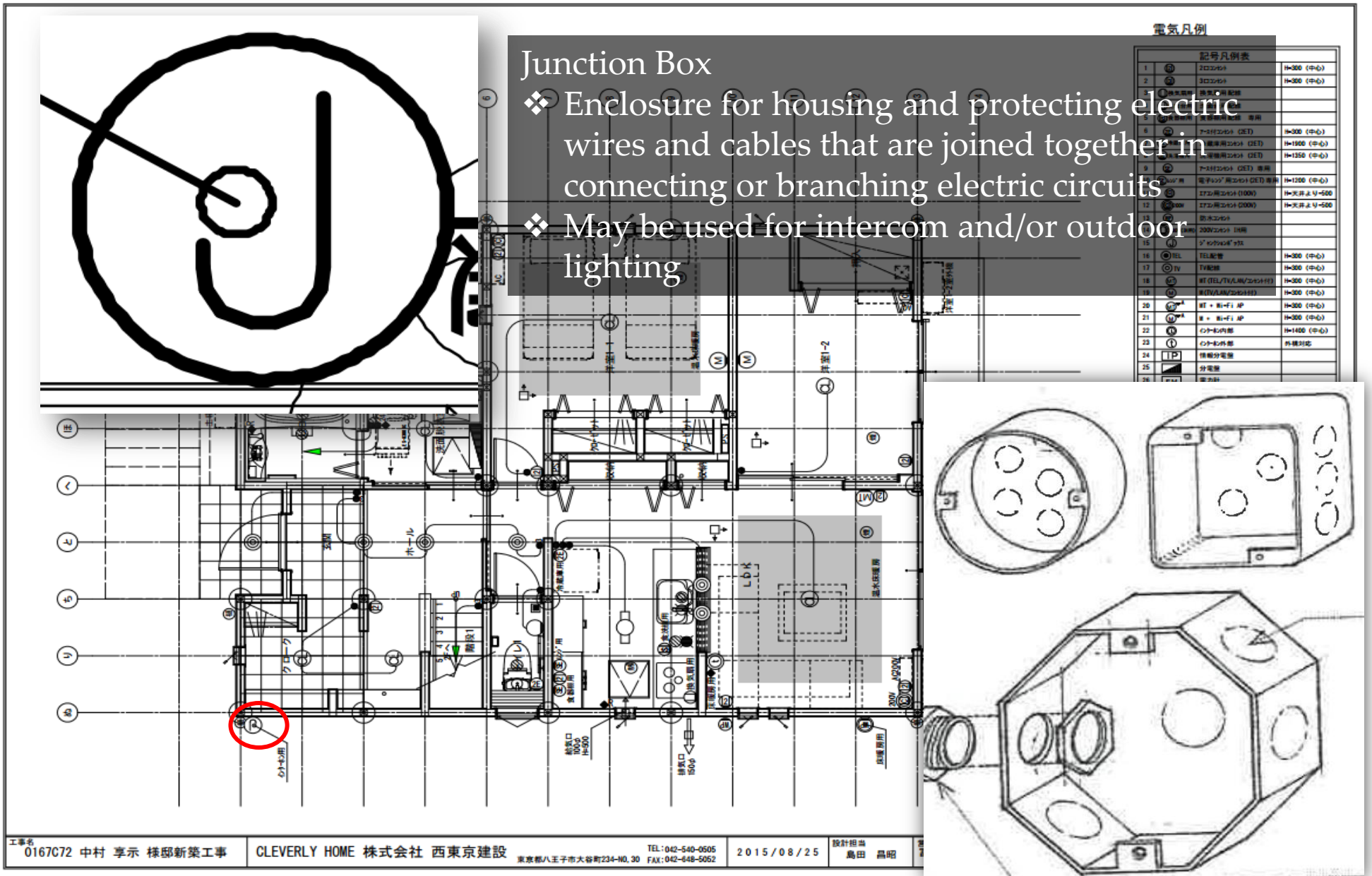
Basic EP – Others

Prepared by: IDr. Ruth Annalyn Acibar, CAD Supervisor
©Frontier Intermediary Technology, Inc. 2016



Basic EP – Others

Prepared by: IDr. Ruth Annalyn Acibar, CAD Supervisor
©Frontier Intermediary Technology, Inc. 2016

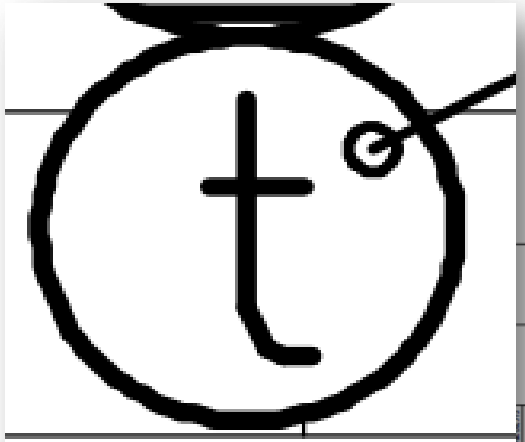


Junction Box

- Enclosure for housing and protecting electric wires and cables that are joined together in connecting or branching electric circuits
- May be used for intercom and/or outdoor lighting

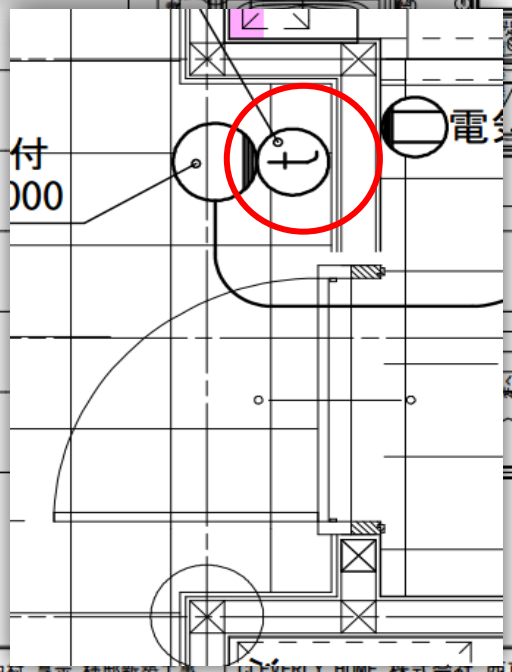
Basic EP – Others

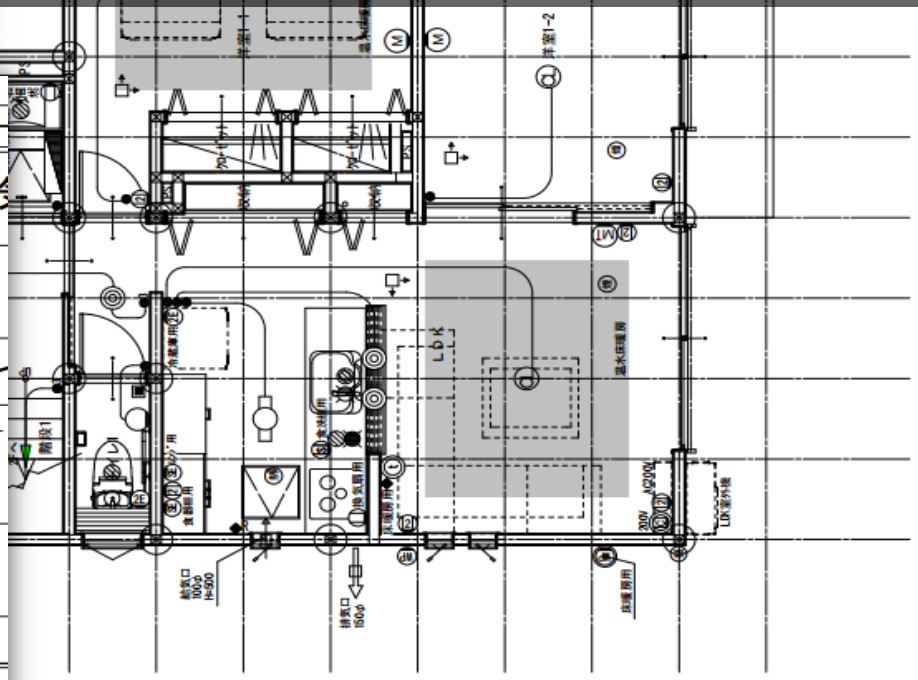
Prepared by: IDr. Ruth Annalyn Acibar, CAD Supervisor
©Frontier Intermediary Technology, Inc. 2016



Outdoor Intercom

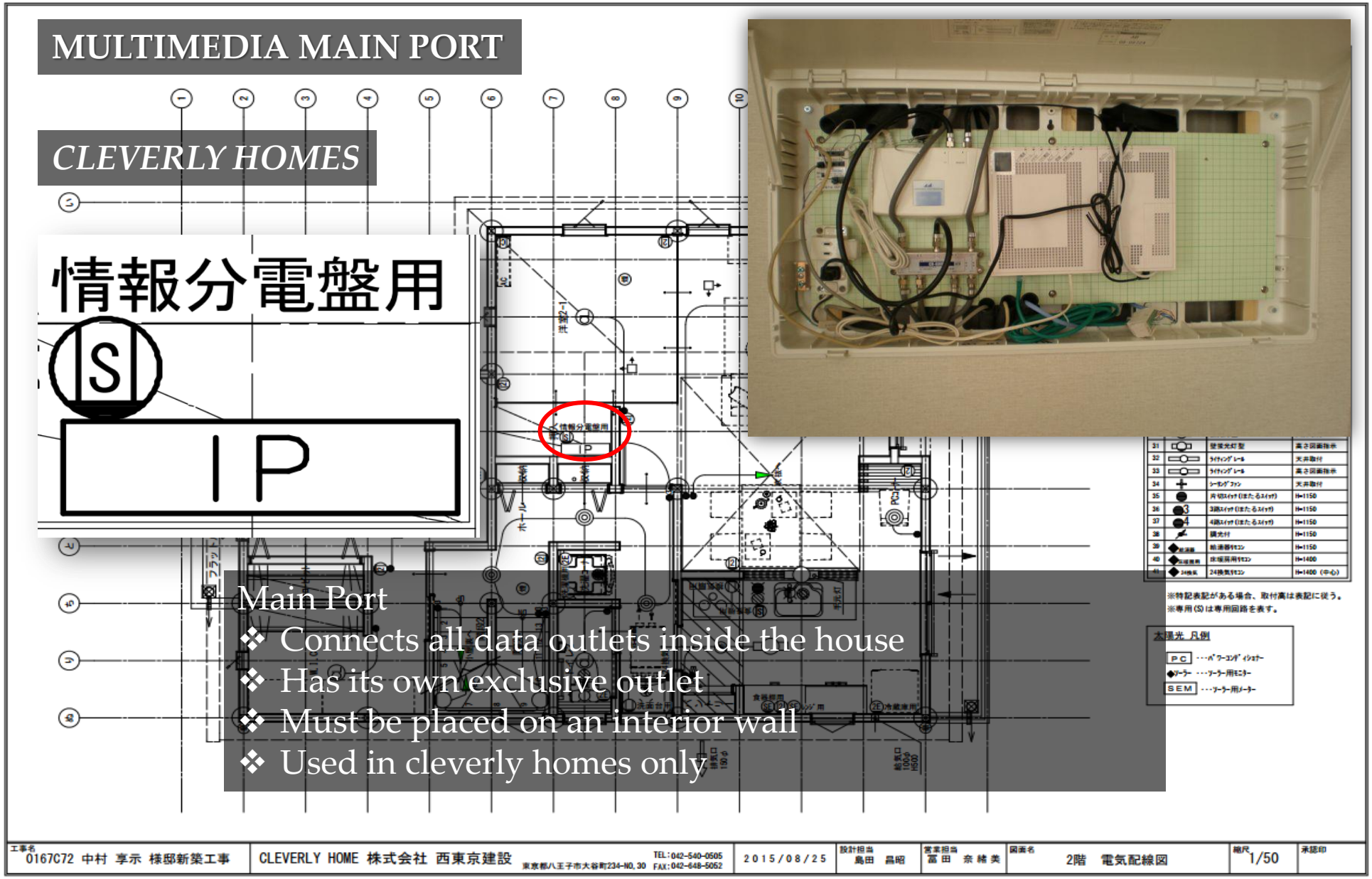
- Part of intercom system
- Placed near entrance door when road limit is 2m or less
- May be stand-alone or attached to wall
- With camera, speaker and mic





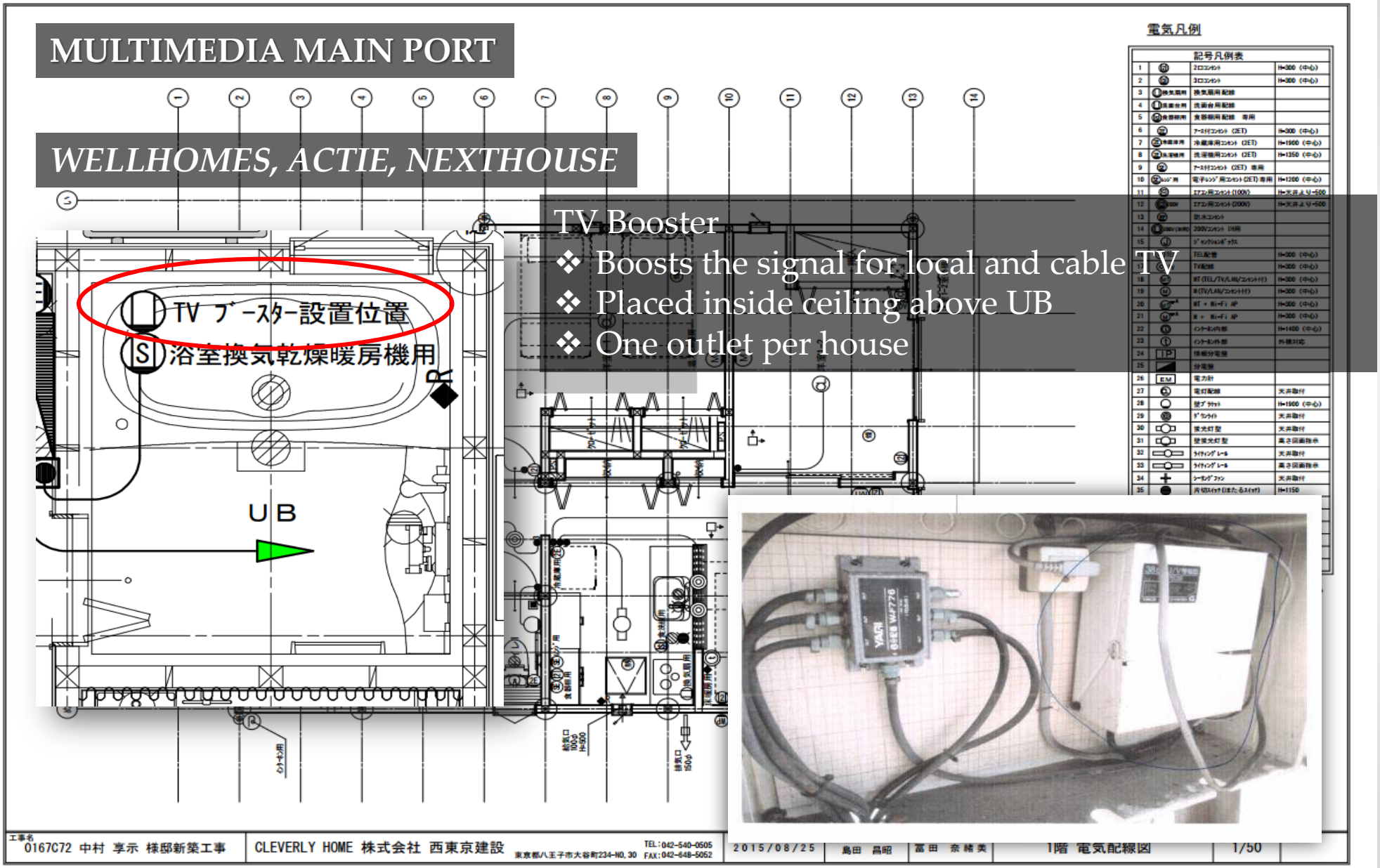
Basic EP – Others

Prepared by: IDr. Ruth Annalyn Acibar, CAD Supervisor
©Frontier Intermediary Technology, Inc. 2016



Basic EP – Others

Prepared by: IDr. Ruth Annalyn Acibar, CAD Supervisor
©Frontier Intermediary Technology, Inc. 2016



TV Booster

- Boosts the signal for local and cable TV
- Placed inside ceiling above UB
- One outlet per house