

# OFFICE FIT-UP FOR A PUBLIC SAFETY CLIENT

105 CHRISTINA, SARNIA ONTARIO  
R.073089.040 & R.073089.052



## DRAWING LIST

### ARCHITECTURAL

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- A002 KEY PLANS
- A100 PARTITION TYPES
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- A801 INTERIOR ELEVATIONS
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- A901 SCHEDULES

### MECHANICAL

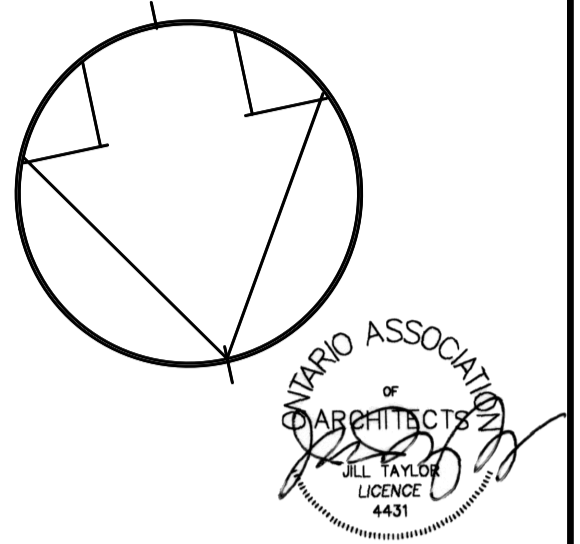
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- M-02 HVAC DEMOLITION AND NEW LAYOUT MECHANICAL
- M-03 PLUMBING /DRAINAGE NEW LAYOUT AND ROOF PLAN MECHANICAL
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05	SUBMITTED FOR TENDER	2016/10/07
04	SUBMITTED FOR 99% CLIENT REVIEW	2016/09/02
03	SUBMITTED FOR 66% CLIENT REVIEW	2016/07/15
02	SUBMITTED FOR 66% CLIENT REVIEW	2016/03/30
01	SUBMITTED FOR PRELIMINARY REVIEW	2016/03/24
revision		date

Do not scale drawings.  
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- A Detail No.
- B drawing no. - where detail required
- C drawing no. - where detailed

project title  
titre du projet

105 CHRISTINA STREET SOUTH  
FIT UP FOR A PUBLIC SAFETY CLIENT  
SARNIA, ONTARIO

drawing title  
titre du dessin  
COVER SHEET AND  
LOCATION PLAN

drawn by  
dessiné par CHU

designed by  
conçu par CHU/ JT

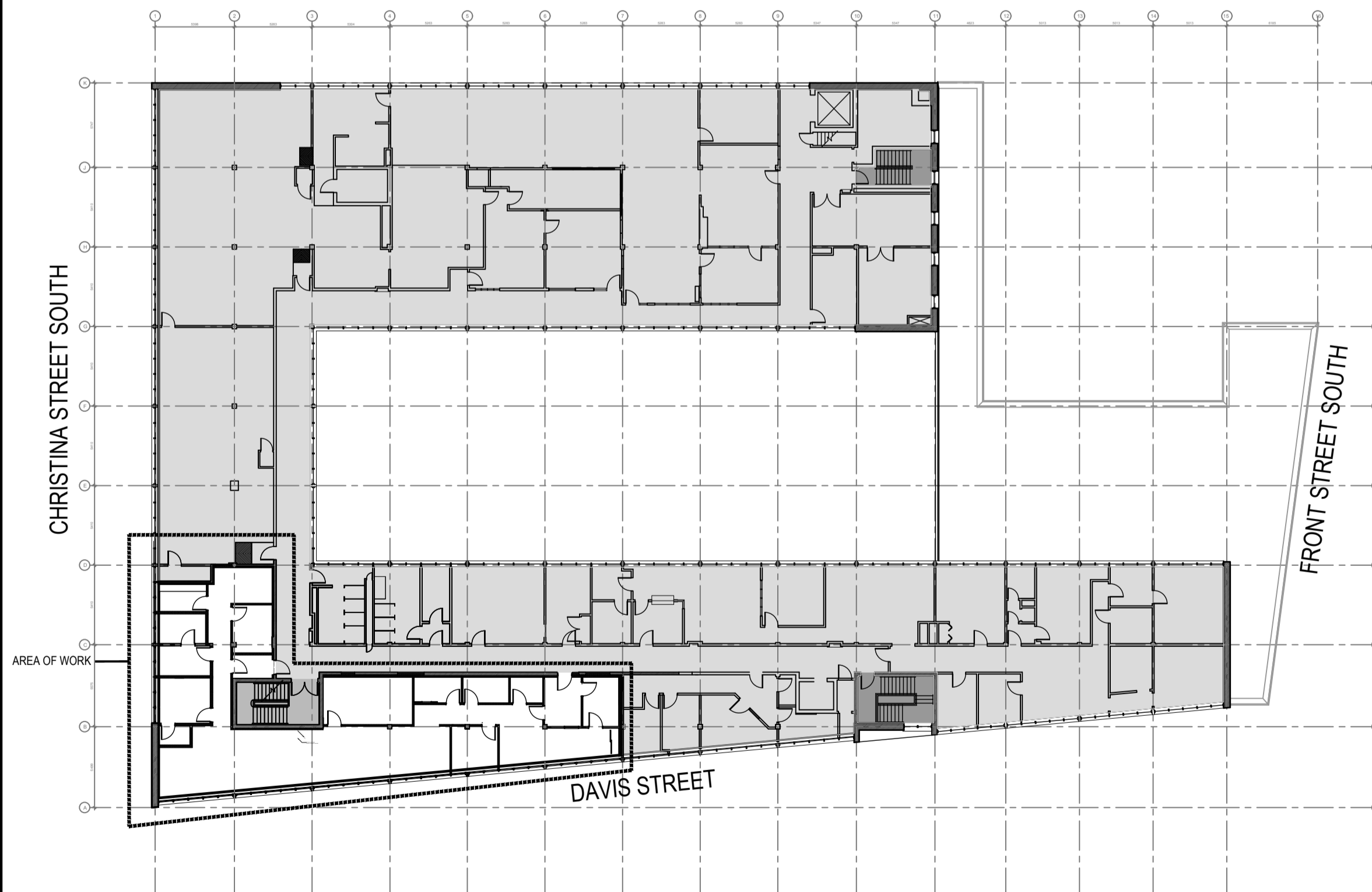
approved by  
approuvé par J TAYLOR

bid  
offre A. MENIKGAMA project manager  
administrateur de projets

project date  
date du projet 2015-12-17

project no.  
no. du projet R.073089.040  
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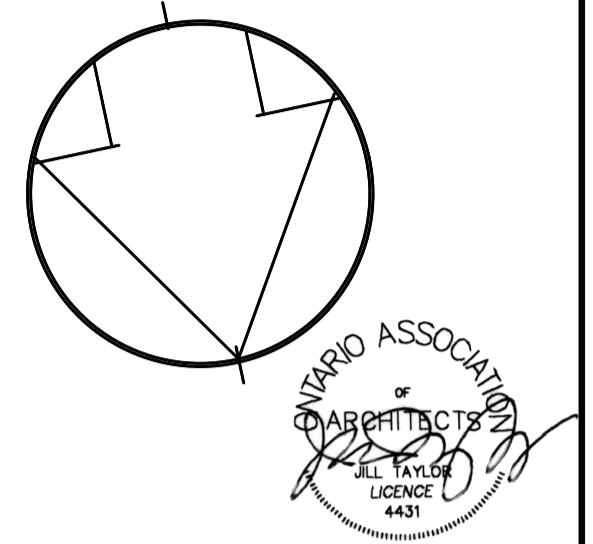
drawing no.  
dessiné no. A001



FIRM NAME: TAYLOR HAZELL ARCHITECTS CERTIFICATE OF PRACTICE NUMBER: 2659			
NAME OF PROJECT: LOCATION: 105 CHRISTINA STREET SOUTH, SARNIA, ONTARIO			
ITEM	ONTARIO BUILDING CODE DATA MATRIX PARTS 3 & 9	IBC REFERENCE	
1	PROJECT DESCRIPTION: <input type="checkbox"/> NEW <input type="checkbox"/> PART 11 <input type="checkbox"/> PART 3 <input type="checkbox"/> PART 9 <input type="checkbox"/> ADDITION <input type="checkbox"/> ALTERATION <input type="checkbox"/> CHANGE OF USE	11.1 TO 11.4	
2	MAJOR OCCUPANCY(S) - GOVERNMENT OFFICES	3.1.2.1 (1)	9.10.2
3	BUILDING AREA (m2) EXISTING 285m <sup>2</sup> NEW TOTAL No Change	1.1.3.2	1.1.3.2
4	GROSS AREA EXISTING 3,040m <sup>2</sup> NEW TOTAL No Change	1.1.3.2	1.1.3.2
5	NUMBER OF STOREYS ABOVE GRADE 2 BELOW GRADE 1	3.2.1.1 & 1.1.3.2	2.1.1.3
6	NUMBER OF STREETS/FIRE FIGHTER ACCESS 3	3.2.2.10 & 3.2.5.5	9.10.19
7	BUILDING CLASSIFICATION 3.2.2.50 GROUP D, UP TO 6 STOREYS (OBC)*	3.2.2.20-83	9.10.4
8	SPRINKLER SYSTEM PROPOSED <input type="checkbox"/> ENTIRE BUILDING <input type="checkbox"/> BASEMENT ONLY <input type="checkbox"/> IN LIEU OF ROOF RATING <input type="checkbox"/> NOT REQUIRED	3.2.2.20-83 3.2.1.5 3.2.2.17	9.10.8
9	STANDPIPE REQUIRED <input type="checkbox"/> YES <input type="checkbox"/> NO	3.2.9	N/A
10	FIRE ALARM REQUIRED <input type="checkbox"/> YES <input type="checkbox"/> NO	3.2.4	9.10.7.2
11	WATER SERVICE/SUPPLY IS ADEQUATE <input type="checkbox"/> YES <input type="checkbox"/> NO	3.2.5.7	N/A
12	HIGH BUILDING <input type="checkbox"/> YES <input type="checkbox"/> NO	3.2.6	N/A
13	PERMITTED CONSTRUCTION <input type="checkbox"/> COMBUSTIBLE <input checked="" type="checkbox"/> NON-COMB. <input type="checkbox"/> BOTH ACTUAL CONSTRUCTION <input type="checkbox"/> COMBUSTIBLE <input checked="" type="checkbox"/> NON-COMB. <input type="checkbox"/> BOTH	3.2.2.20-83	9.10.6
14	MEZZANINE(S) AREA (m2)	3.2.1.1.(3)-(6)	9.10.4.1
15	OCCUPANT LOAD BASED ON <input type="checkbox"/> m2/PERSON <input checked="" type="checkbox"/> DESIGN OF BUILDING BASEMENT: OCCUPANCY LOAD PERSONS 1ST FLOOR: OCCUPANCY LOAD PERSONS 2ND FLOOR: OCCUPANCY LOAD 11 PERSONS (SUITE HEAD COUNT) NO CHANGE TO EXISTING PROPOSED. FOR ADDITIONAL FLOORS, USE SPACE BELOW	3.1.16	9.9.1.3
16	BARRIER-FREE DESIGN <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO (EXPLAIN)	3.8	9.5.2
17	HAZARDOUS SUBSTANCES <input type="checkbox"/> YES <input type="checkbox"/> NO	3.3.1.2 & 3.3.1.9	9.10.1.3(4)
18	REQUIRED FIRE RESISTANCE RATING (FRR) FLOORS 1 HOURS NO PROPOSED CHANGE ROOF 1 HOURS NO PROPOSED CHANGE MEZZANINE HOURS FRR OF SUPPORTING MEMBERS FLOORS 1 HOURS NO PROPOSED CHANGE ROOF 1 HOURS NO PROPOSED CHANGE MEZZANINE HOURS	LISTED DESIGN OR DESCRIPTION (SG-2) 3.2.2.20-83 & 3.2.1.4 3.2.1.1	9.10.8 9.10.9
19	SPATIAL SEPARATION - CONSTRUCTION OF EXTERIOR WALLS	3.2.3	9.10.14
	WALL AREA (m2) OR H/L PERMITTED MAX % OF OPENINGS PROPOSED % OF OPENINGS FRR (HOURS) LISTED DESIGN OR CONSTR. COMB. NON-COMB. CONSTR. NON-COMB. CONSTR.		
	NORTH SOUTH EAST WEST		
20	OTHER - DESCRIBE		

THIS BUILDING CODE DATA MATRIX IS PROVIDED FOR REFERENCE ONLY	
NAME OF PROJECT: PARRY SOUND CANADIAN COAST GUARD BASE - UPGRADE BUILDING ENVELOPES BUILDING A - MAIN BUILDING LOCATION: 28 WAUBEEK STREET, PARRY SOUND, ONTARIO	
ITEM	NATIONAL BUILDING CODE DATA MATRIX PART 3 NBC REFERENCE
1	PROJECT DESCRIPTION: <input type="checkbox"/> NEW <input type="checkbox"/> ADDITION <input type="checkbox"/> CHANGE OF USE <input checked="" type="checkbox"/> ALTERATION
2	MAJOR OCCUPANCY(S) GOVERNMENT OFFICES 3.2.2.88.
3	BUILDING AREA (m2) EXISTING 285m <sup>2</sup> TOTAL
4	GROSS AREA (m2) EXISTING 3,040m <sup>2</sup> TOTAL
5	NUMBER OF STOREYS ABOVE GRADE 2 BELOW GRADE 1 3.2.2.88.
6	NUMBER OF STREETS/FIRE FIGHTER ACCESS 3 3.2.2.10 & 3.2.5.5
7	BUILDING CLASSIFICATION 'GROUP D' OFFICES 3.2.2.88.
8	SPRINKLER SYSTEM PROPOSED <input checked="" type="checkbox"/> ENTIRE BUILDING <input type="checkbox"/> BASEMENT ONLY <input type="checkbox"/> IN LIEU OF ROOF RATING <input type="checkbox"/> NOT REQUIRED
9	STANDPIPE REQUIRED (EXISTING) <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO 3.2.9
10	FIRE ALARM REQUIRED (EXISTING) <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO 3.2.4
11	WATER SERVICE/SUPPLY REQUIRED <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO 3.2.5.7
12	HIGH BUILDING <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO N/A
13	PERMITTED CONSTRUCTION <input type="checkbox"/> COMBUSTIBLE <input checked="" type="checkbox"/> NON-COMB. <input type="checkbox"/> BOTH ACTUAL CONSTRUCTION <input type="checkbox"/> COMBUSTIBLE <input checked="" type="checkbox"/> NON-COMB. <input type="checkbox"/> BOTH 3.2.2.88.
14	MEZZANINE(S) AREA (m2) N/A
15	OCCUPANT LOAD BASED ON <input checked="" type="checkbox"/> m2/PERSON <input type="checkbox"/> DESIGN OF BUILDING NO CHANGE TO EXISTING PROPOSED. 3.1.16
16	BARRIER-FREE DESIGN <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO (EXPLAIN) 3.8
17	HAZARDOUS SUBSTANCES <input type="checkbox"/> YES <input type="checkbox"/> NO 3.3.1.2.
18	REQUIRED FIRE RESISTANCE RATING (FRR) FLOORS --- HOURS NO PROPOSED CHANGE ROOF --- HOURS NO PROPOSED CHANGE MEZZANINE HOURS FRR OF SUPPORTING MEMBERS FLOORS --- HOURS NO PROPOSED CHANGE ROOF --- HOURS NO PROPOSED CHANGE MEZZANINE HOURS 3.2.2.88.
20	PLUMBING FIXTURE REQUIREMENTS FLOOR OCCUPANT LOAD BC TABLE NO. FIXTURES REQUIRED FIXTURES PROVIDED NO CHANGE TO EXISTING PROPOSED.
20	OTHER - DESCRIBE N/A

1 LOCATION PLAN, 2ND FLOOR  
A001 1:250



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C	drawing no. - where detailed dessin no. - où détaillé

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titre du projet

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SARNIA, ONTARIO

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dessiné par CHU

designed by  
conçue par CHU \ JT

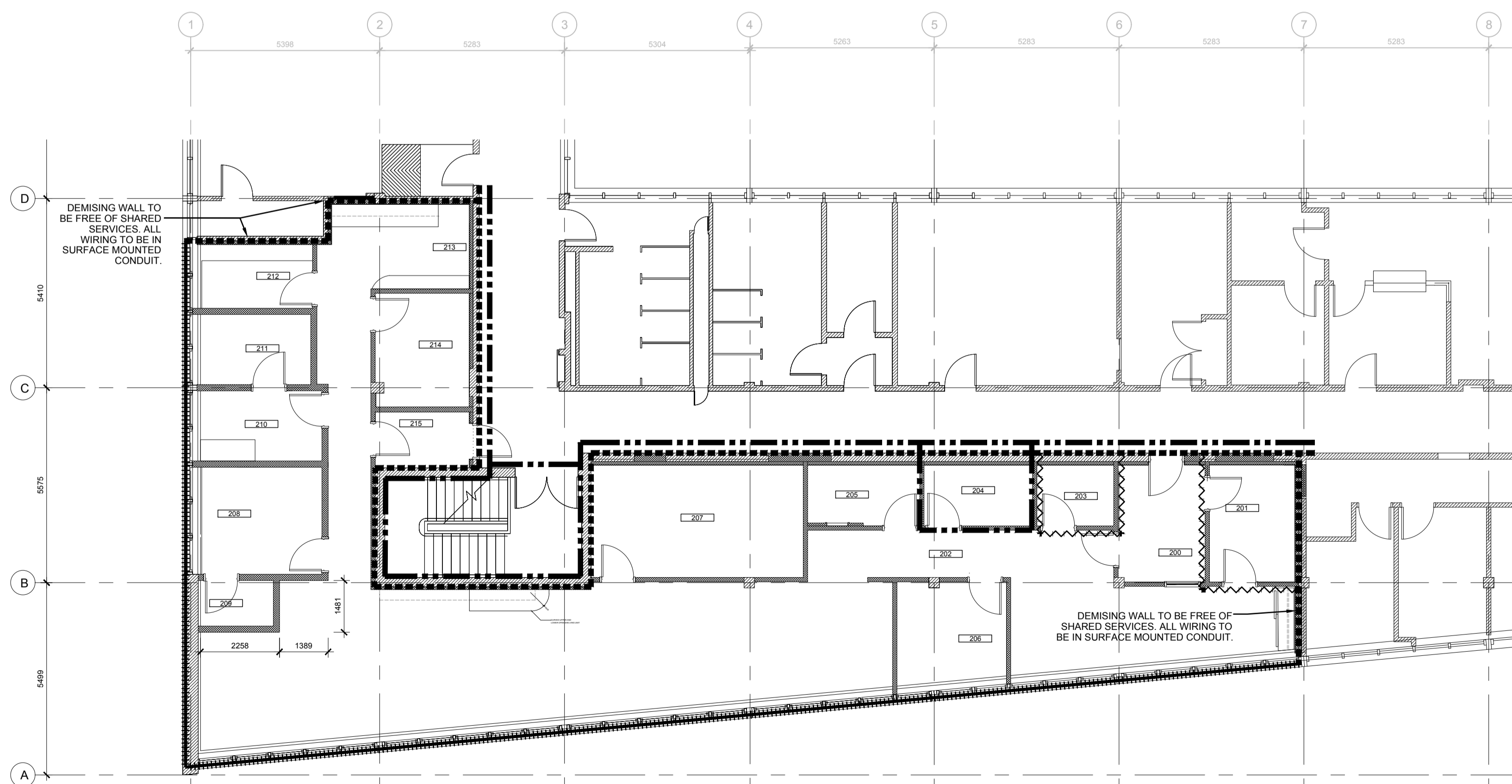
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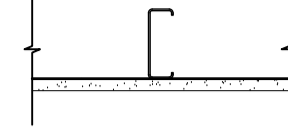
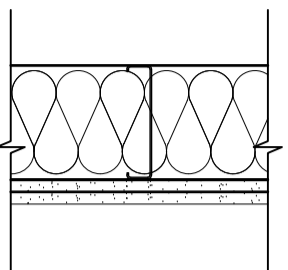
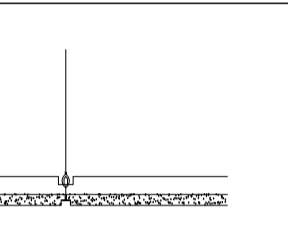
drawing no.  
dessiné no. A002

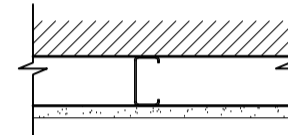
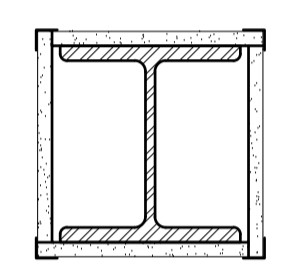
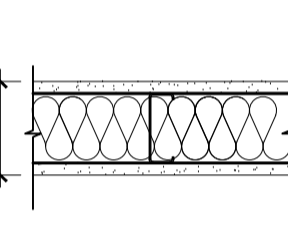
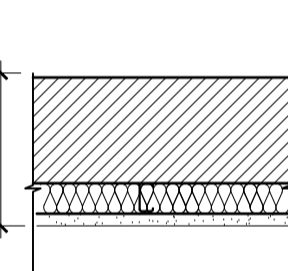
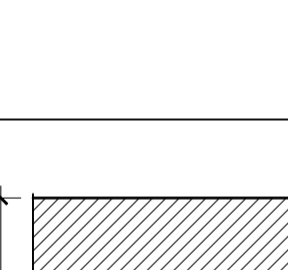
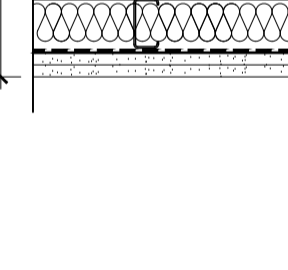
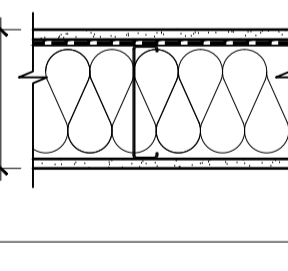
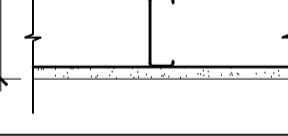
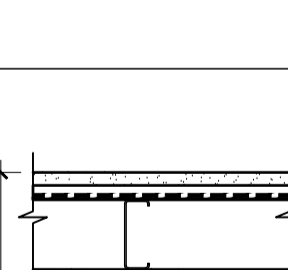
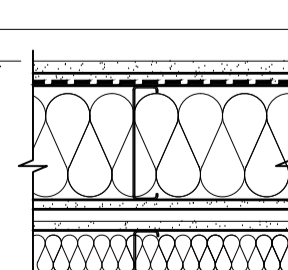


**LEGEND:**

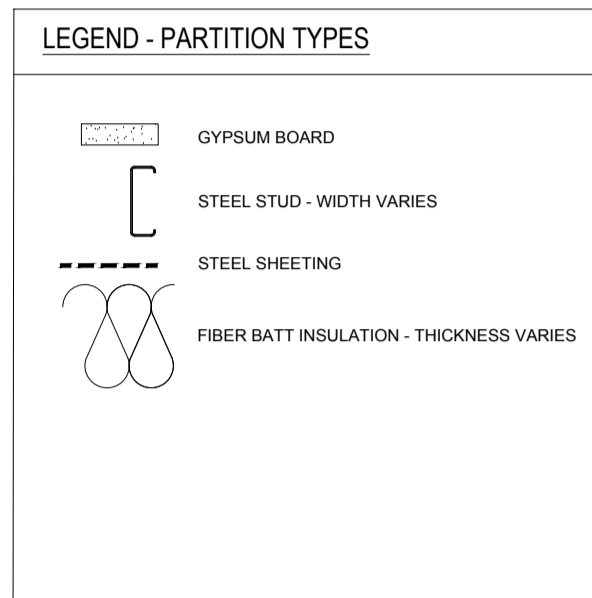
- FIRE SEPARATION (1 HRS)
- SUITE SEPARATION (STC 51)
- EXTERIOR WALL (STC 35)
- INTERIOR PARTITION (STC 46)

**1** STC RATING AND FIRE SEPERATAION DIAGRAM  
A002 1:100

CEILING TYPES			
TAG	DESCRIPTION	STC RATING	FIRE RATING
5A	 <p><b>TYPICAL HARD CEILING</b></p> <ul style="list-style-type: none"> <li>35MM X 92MM X 0.5MM NON LOAD BEARING STEEL STUDS SPACED AT 400MM OC</li> <li>15.9MM TYPE 'X' GYPSUM WALLBOARD</li> </ul>	—	—
5B	 <p><b>TYPICAL CEILING REINFORCED WITH STEEL</b></p> <ul style="list-style-type: none"> <li>TWO LAYERS OF 15.9MM FIRE-RATED GYPSUM BOARD</li> <li>ONE LAYER OF EXPANDED MESH STEEL</li> <li>STEEL STUDS SPACED AT 300MM OC</li> <li>150MM THICK FIBER BATTS BETWEEN STUDS</li> </ul>	—	—
5C	 <p><b>TYPICAL DROP ACT IN SUSPENDED GRID</b></p> <ul style="list-style-type: none"> <li>PROVIDE ACOUSTIC GASKET BETWEEN WALL &amp; CEILING</li> </ul>	—	—

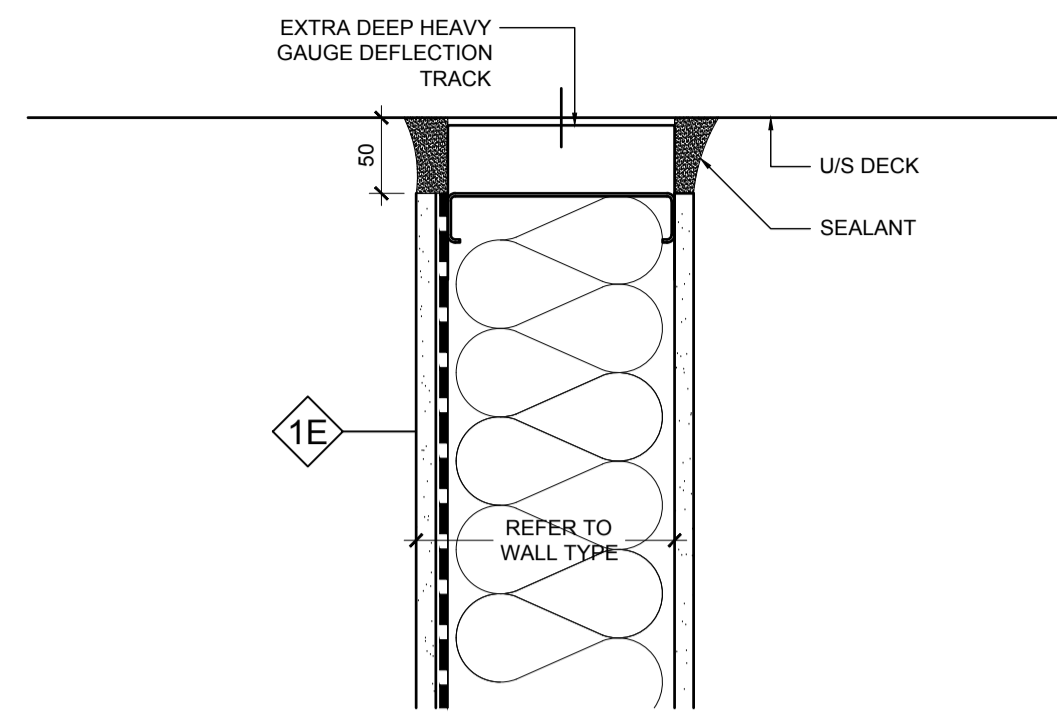
INTERIOR PARTITION			
TAG	DESCRIPTION	STC RATING	FIRE RATING
1I	 <p><b>TYPICAL FURRING</b></p> <ul style="list-style-type: none"> <li>EXISTING PLASTER WALL OR NEW ELECTRICAL PANEL</li> <li>RESILIENT METAL CHANNELS SPACED AT 400MM OC</li> <li>GYPSUM BOARD</li> </ul>	—	—
1H	 <p><b>TYPICAL EXISTING COLUMN ENCLOSURE</b></p> <ul style="list-style-type: none"> <li>EXISTING STEEL COLUMN WITH 19MM TYPE X GWB ENCLOSURE. ALLOW FOR PATCH AND REPAIR WITH PLASTER TO ALL TYPICAL COLUMN ENCLOSURES TO PROVIDE SMOOTH FINISH FOR NEW PAINT</li> </ul>	—	1HR
1G	 <p><b>TYPICAL NEW INTERIOR SUITE STC RATED WALL</b></p> <ul style="list-style-type: none"> <li>15.9MM TYPE 'X' GYPSUM WALLBOARD</li> <li>35MM X 92MM X 0.5MM NON LOAD BEARING STEEL STUDS SPACED AT 400MM OC</li> <li>90MM TIGHT-FITTING ACOUSTIC BATTING BETWEEN STUDS</li> <li>15.9MM TYPE 'X' GYPSUM WALLBOARD</li> <li>TO UNDERSIDE OF DECK</li> </ul>	46	1HR
1F	 <p><b>TYPICAL SUITE SEPARATION TO CORRIDOR, TO U/S OF DECK</b></p> <ul style="list-style-type: none"> <li>EXISTING CLAY WALL ASSEMBLY TO BE INSPECTED. SEAL ALL HOLES, GAPS WITH MASONRY OR CAULKING. MAINTAIN EXISTING PLASTER ABOVE AND BELOW CEILING LEVEL INCLUDING WHERE ALL EXISTING MECHANICAL AND ELECTRICAL IS BEING REMOVED.</li> <li>NEW RESILIENT METAL 38MM CHANNEL REQUIRED SPACED AT 400MM OC. 25 GAUGE NON-LOAD BEARING.</li> <li>NEW TIGHT-FITTING ACOUSTIC BATTING BETWEEN STUDS</li> <li>NEW ONE LAYER OF 15.9MM GYPSUM WALLBOARD</li> </ul>	51	1HR
1F2	 <p><b>TYPICAL SUITE SEPARATION BETWEEN ADJACENT SUITES, TO U/S OF DECK</b></p> <ul style="list-style-type: none"> <li>EXISTING CLAY WALL ASSEMBLY TO BE INSPECTED. SEAL ALL HOLES, GAPS WITH MASONRY OR CAULKING. MAINTAIN EXISTING PLASTER ABOVE AND BELOW CEILING LEVEL INCLUDING WHERE ALL EXISTING MECHANICAL AND ELECTRICAL IS BEING REMOVED.</li> <li>12MM CLEAR SPACE (MIN.)</li> <li>NEW 50MM STUDS SPACED AT 400MM OC. 25 NEW GAUGE NON-LOAD BEARING.</li> <li>NEW 50MM TIGHT-FITTING ACOUSTIC BATTING BETWEEN STUDS</li> <li>NEW ONE LAYER OF 15.9MM GYPSUM WALLBOARD</li> </ul>	51	1HR
1E	 <p><b>TYPICAL NEW WALLS TO U/S OF DECK</b></p> <ul style="list-style-type: none"> <li>ONE LAYER OF 12.7 MM THICK GYPSUM BOARD</li> <li>ONE LAYER OF 1.91MM SHEET STEEL (14 GA) W/ 9.5MM HOLES FOR INSTALLATION</li> <li>152MM STEEL STUDS SPACED AT 300MM OC</li> <li>150MM THICK FIBER BATTS BETWEEN STUDS</li> <li>ONE LAYER OF 12.7 MM THICK GYPSUM BOARD</li> </ul>	—	—
1D	 <p><b>TYPICAL NEW INTERIOR SUITE WALL TO U/S OF DECK</b></p> <ul style="list-style-type: none"> <li>15.9MM TYPE 'X' GYPSUM WALLBOARD</li> <li>35MM X 92MM X 0.5MM NON LOAD BEARING STEEL STUDS SPACED AT 400MM OC</li> <li>15.9MM TYPE 'X' GYPSUM WALLBOARD</li> </ul>	—	—
1C	 <p>• PATCH AND REPAIR EXISTING WALL, PRIOR TO REPAINTING.</p>	—	—
1B	 <p><b>TYPICAL NEW ENTRANCE VESTIBULE WALL TO U/S OF DECK</b></p> <ul style="list-style-type: none"> <li>16MM TYPE 'X' GYPSUM WALLBOARD</li> <li>19MM #10 ROLLED, FLATTENED STEEL MESH</li> <li>35MM X 92MM X 0.5MM THICK NON LOAD BEARING STEEL STUDS @ 400MM O.C.</li> <li>15.9MM GYPSUM WALLBOARD</li> </ul>	—	—
1A	 <p><b>TYPICAL NEW INFILL WALL AT DEMISING WALL U/S OF DECK</b></p> <ul style="list-style-type: none"> <li>TWO LAYERS OF 15.9MM FIRE-RATED GYPSUM BOARD</li> <li>ONE LAYER OF EXPANDED MESH STEEL</li> <li>152MM STEEL STUDS SPACED AT 300MM OC</li> <li>150MM THICK FIBER BATTS BETWEEN STUDS</li> <li>RESILIENT METAL CHANNELS SPACED 400MM APART</li> <li>ONE LAYER OF 16MM FIRE-RATED GYPSUM BOARD</li> <li>12MM CLEAR SPACE (MIN.)</li> <li>STUDS SPACED AT 400MM OC</li> <li>50MM BATT INSULATION</li> <li>35MM X 65MM X 0.5MM NON LOAD BEARING STEEL</li> <li>TWO LAYERS OF 15.9MM GYPSUM WALLBOARD</li> </ul>	54	1HR

- PARTITION NOTES**
- AT JUNCTION OF ALL LAYERS OF GWB IN THE ASSEMBLY, AND FLOOR AND U/S OF CEILING PROVIDE THE FOLLOWING:
    - A) GAP OF 12.7MM BETWEEN ABUTTING SURFACES.
    - B) CONTINUOUS BEAD OF FIRE-RATED SEALANT TO FILL THE GAP.
  - AT ALL SERVICE PENETRATIONS THROUGH GWB WALLS, PROVIDE FIRE-RATED SEALANT AT 12.7MM GAP BETWEEN PENETRATION AND WALL ON BOTH EXPOSED GWB FACES.
  - FOR ALL DOORS AND WINDOWS SEE DOOR AND WINDOW SCHEDULES.
  - FOR ALL ROOM FINISHES SEE FINISH SCHEDULE.
  - CONTRACTOR TO CONFIRM ALL FRAME OPENINGS TO ENSURE THEY ARE CORRECTLY SIZED TO FIT WINDOWS AND DOOR FRAMES SIZES.
  - TERMINATE ALL WALLS TO UNDERSIDE OF EXISTING STEEL DECK UNLESS OTHERWISE NOTED.

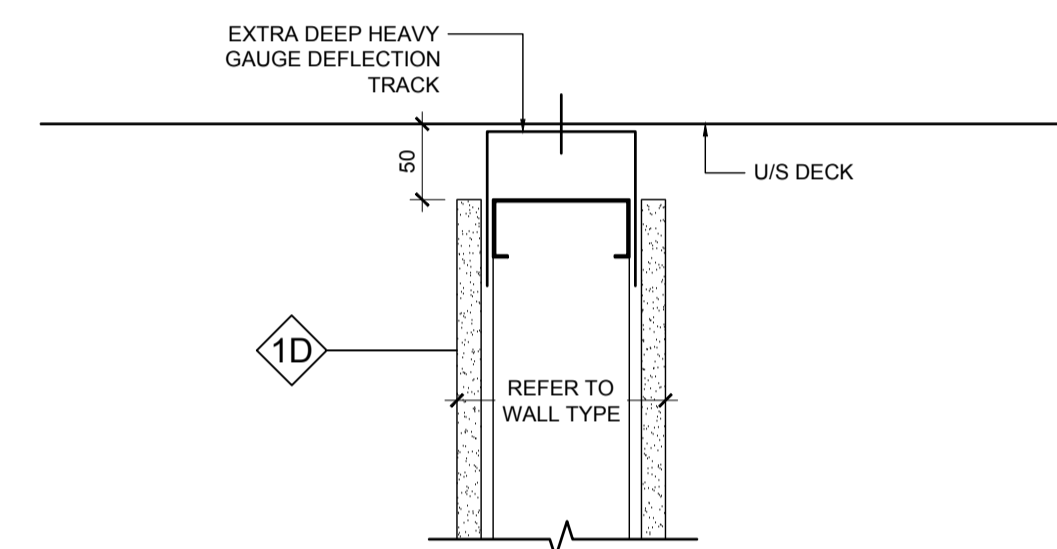


**ABBREVIATIONS**

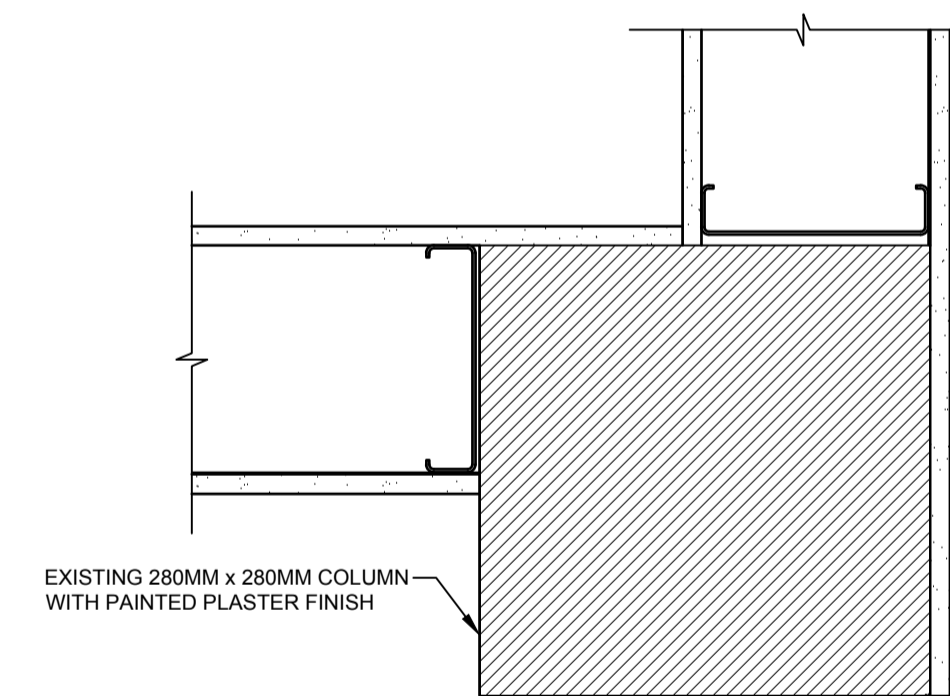
DIA	DIAMETER
GWB	GYPSUM WALL BOARD
HM	HOLLOW METAL
IN	INSIDE
INT	INTERIOR
M	METER
MAX	MAXIMUM
MIN	MINIMUM
MM	MILLIMETER
OUT	OUTSIDE
SM	SIMILAR
TYP	TYPICAL
VB	VINYL BASE



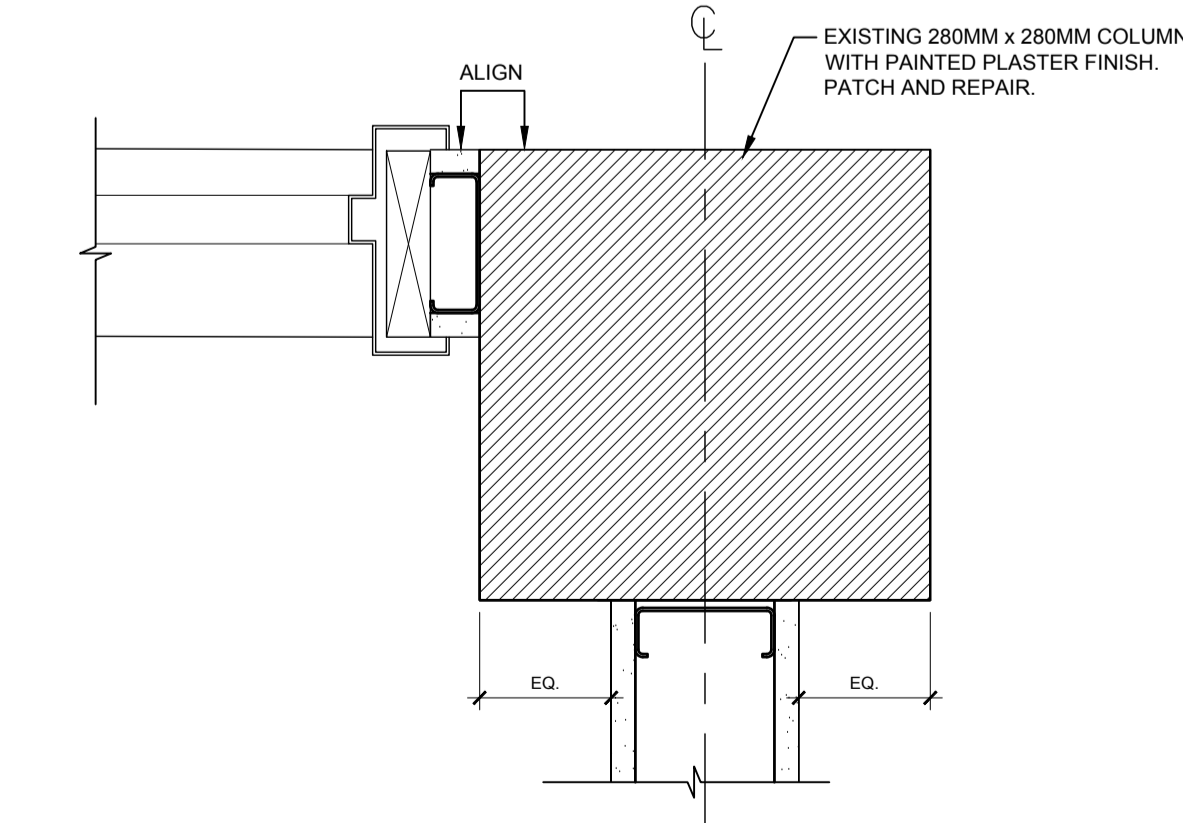
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A100 1:2  
TOP OF PARTITION DETAIL WITH STC, FIRE RATING OR STEEL REINFORCING @ DECK



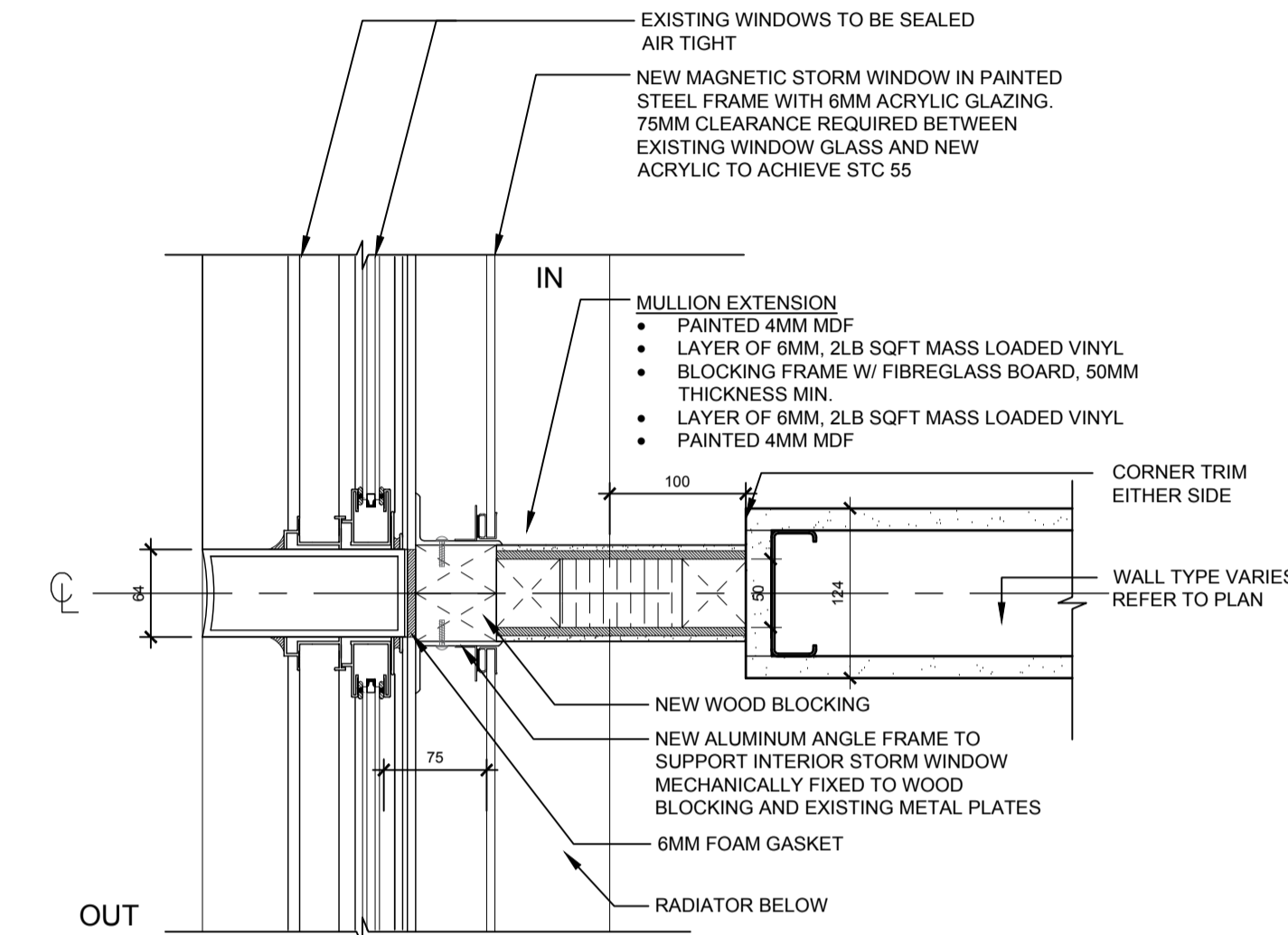
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A100 1:2  
TOP OF PARTITION DETAIL @ DECK



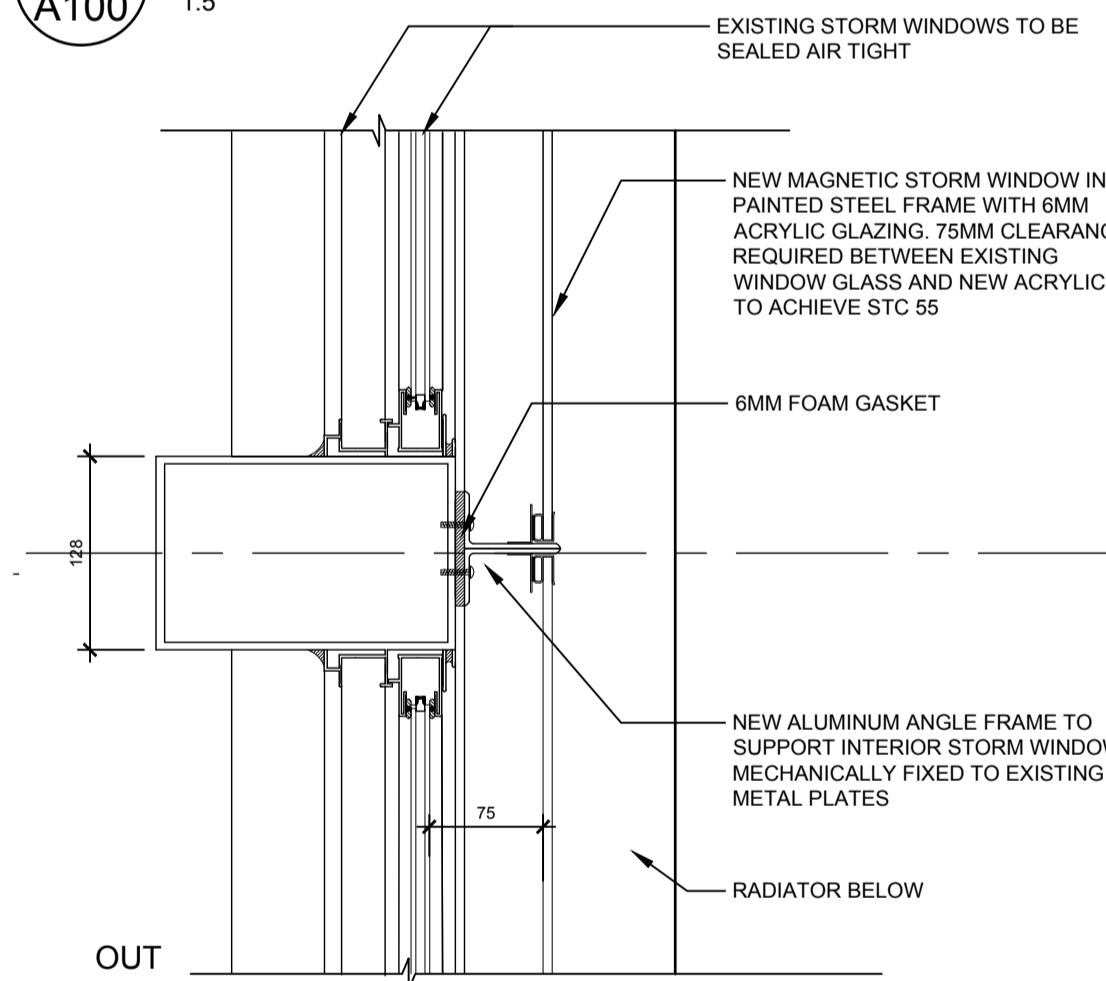
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A100 1:2  
PARTITION DETAIL @ COLUMN



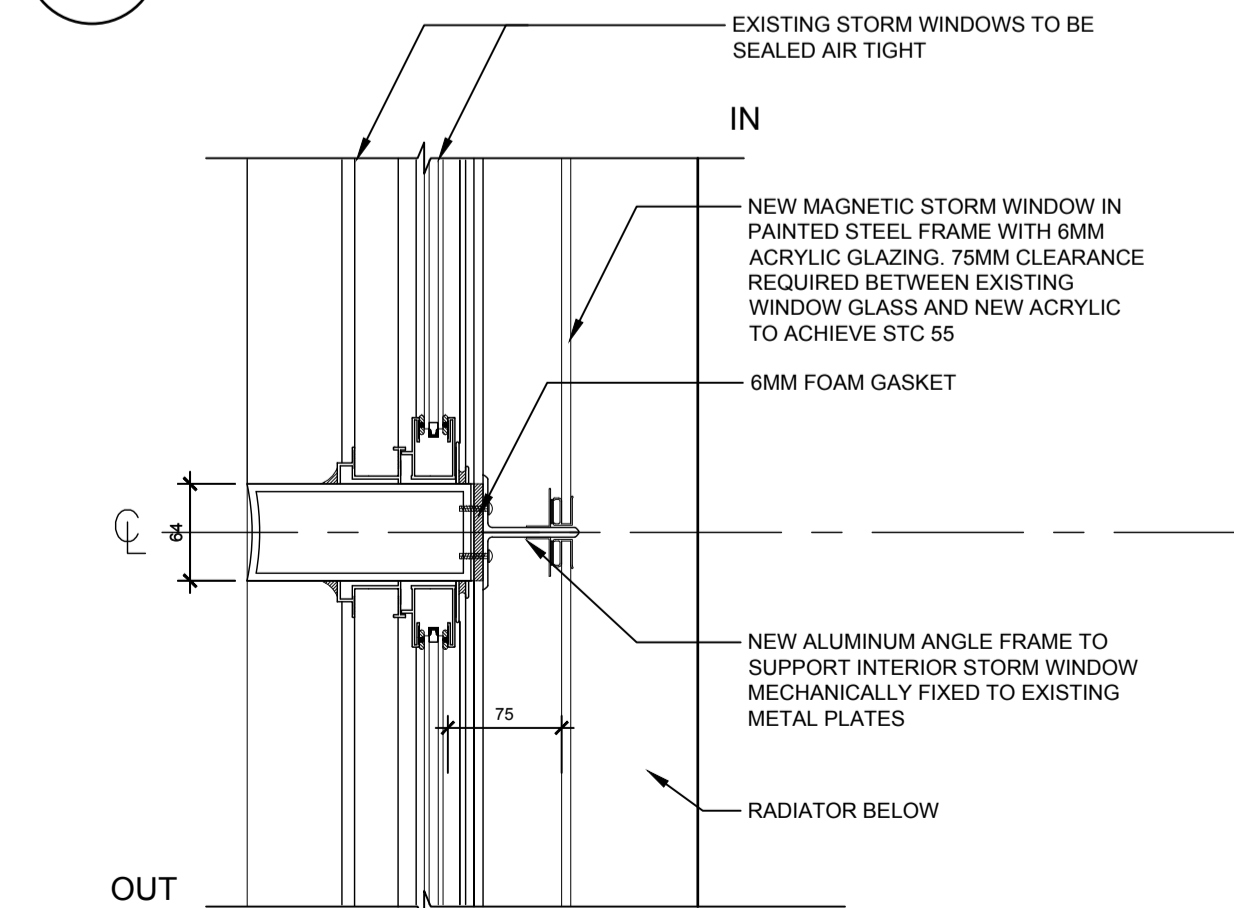
**3**  
A100 1:2  
PARTITION DETAIL @ COLUMN



**5**  
A100 1:5  
TYPICAL PARTITION DETAIL @ MULLION & WALL



**2**  
A100 1:5  
TYPICAL STORM WINDOW DETAIL @ 128MM MULLION



**1**  
A100 1:5  
TYPICAL STORM WINDOW DETAIL @ 64MM MULLION



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project title  
titre du projet

105 CHRISTINA STREET SOUTH  
FIT UP FOR A PUBLIC SAFETY CLIENT  
SARNIA, ONTARIO

drawing title  
titre du dessin  
**PARTITION TYPES**

drawn by  
dessiné par  
CHU

designed by  
conçu par  
CHU \ JT

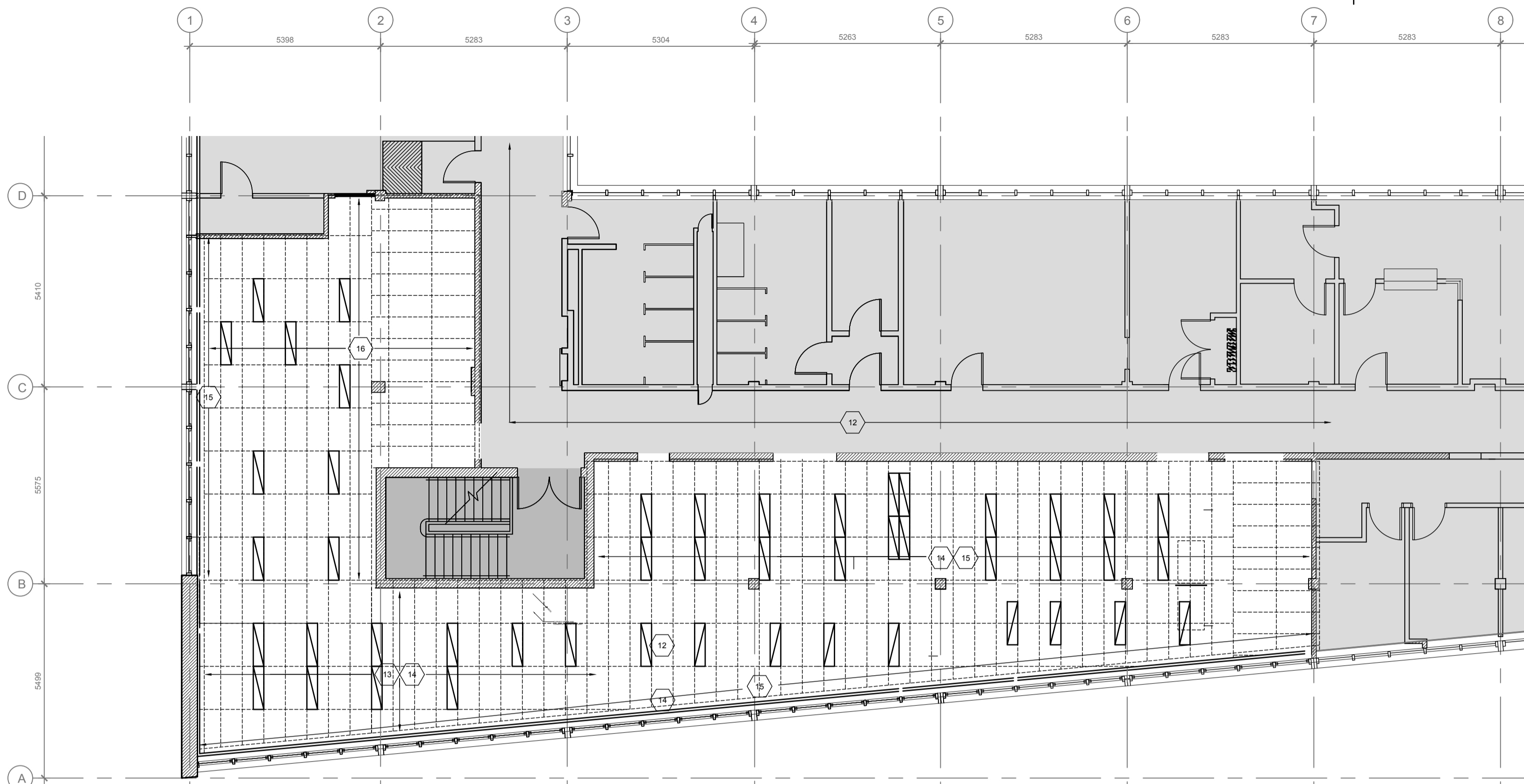
approved by  
approuvé par  
J TAYLOR

bid offer  
offre  
A. MENIKGAMA project manager  
administrateur de projets

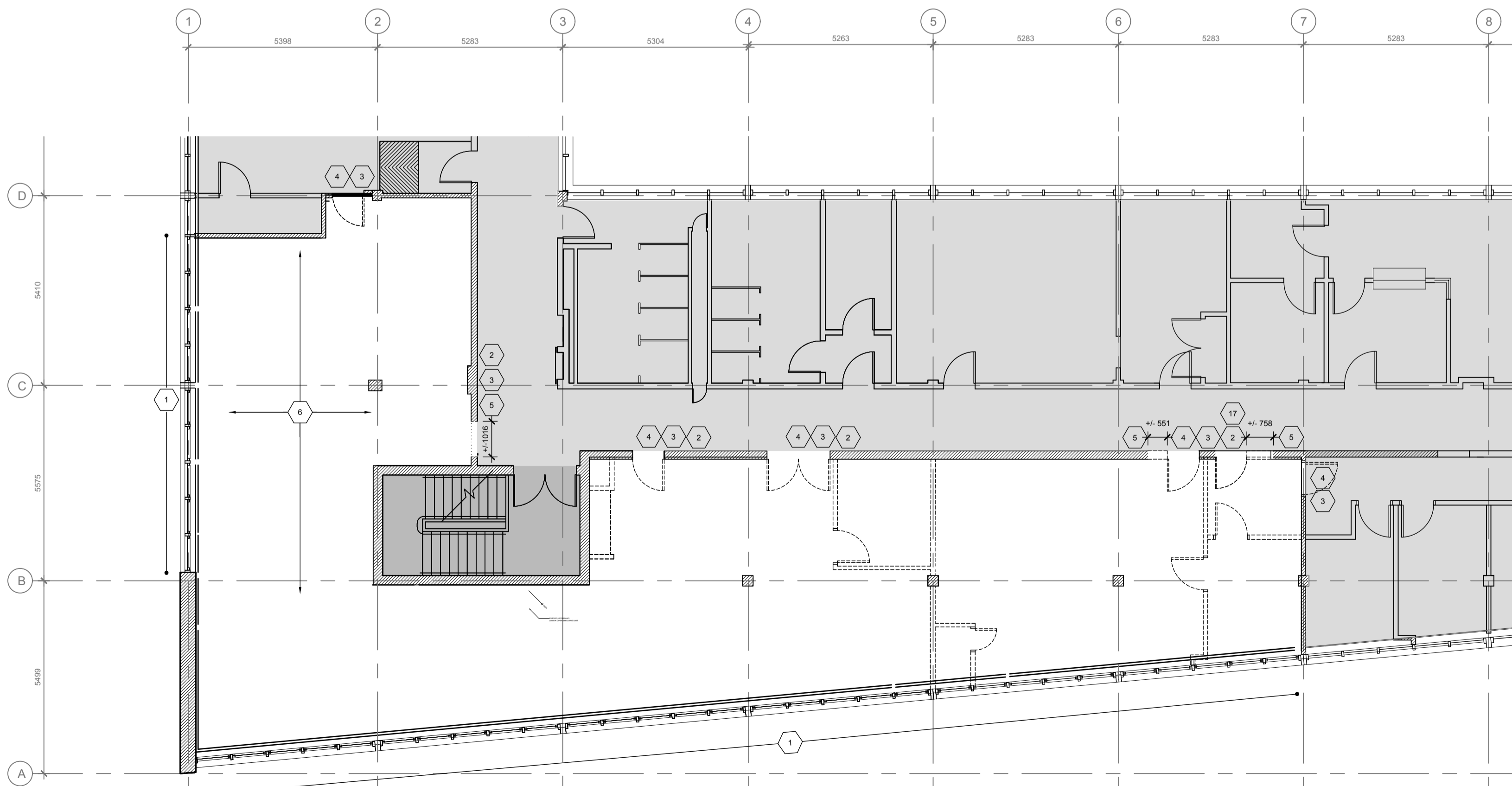
project date  
date du projet  
2015-12-17

project no.  
no. du projet  
R.073089.040  
R.073089.052

drawing no.  
dessiné no.  
A100



**2** DEMOLITION PLAN - REFLECTED CEILING  
A100 1:100



**1** DEMOLITION PLAN  
A100 1:100

**LEGEND - DEMOLITION**

- CEILING TO BE REMOVED
- EXISTING WALL TO REMAIN
- DOOR TO BE REMOVED
- MILLWORK TO BE REMOVED

**DEMOLITION NOTES**

- 1 ALL WINDOWS WITHIN SCOPE OF WORK TO BE STRIPPED OF CAULKING, RE-CAULKED AND CLEANED ON INTERIOR OF BUILDING AND EXTERIOR OF BUILDING. EXISTING VERTICAL BLINDS AND TRACK TO BE REMOVED.
- 2 EXISTING CORRIDOR FINISHES TO REMAIN AND BE REPAIRED AS NECESSARY
- 3 SAW CUT CLAY TILE. AT LOCATIONS OF SAW CUTTING OF CLAY TILE WALLS, AND AT ANY PENETRATIONS MADE, OPENINGS MUST BE TRIMMED AND REINFORCED AS NECESSARY TO PROVIDE SOUND SUBSTRATE AND NEAT OPENINGS FOR NEW WORK. ANY REMOVALS AT CLAY TILE TO BE DONE SO NOT TO DAMAGE EXISTING CLAY TILE. ANY DAMAGE TO BE FIXED.
- 4 REMOVE DOOR, DOOR FRAME AND THRESHOLD AND MAKE GOOD AT PARTITIONS TO REMAIN
- 5 CREATE NEW OPENING
- 6 EXTENT OF FLOORING REMOVAL COMPLETED UNDER A SEPARATE CONTRACT
- 7 REMOVE EXISTING SHELVES, COUNTERTOPS & MILLWORK AND MAKE GOOD AT PARTITIONS TO REMAIN
- 8 REMOVE EXISTING RESILIENT SHEET FLOOR FINISH AND WALL BASE INCLUDING RESIDUE TO T/O SUBFLOOR.
- 9 REMOVE EXISTING CARPET FLOOR FINISH AND WALL BASE INCLUDING RESIDUE TO T/O SUBFLOOR.
- 10 REMOVE EXISTING TILE FLOOR FINISH AND WALL BASE INCLUDING ADHESIVE RESIDUE TO T/O SUBFLOOR.
- 11 REMOVE METAL STUD AND GYPSUM BOARD PARTITIONS TO UNDERSIDE OF STRUCTURE AND ASSOCIATED ELECTRICAL, IT, DOORS AND FRAMES.
- 12 PATCH AND MAKE GOOD ALL WALLS AND CEILINGS AFFECTED BY DEMOLITION TO RECEIVE NEW FINISHES
- 17 DEMO CLAY PARTITION AT THIS LOCATION FULL HEIGHT TO ALLOW FOR NEW LINTEL TO BE INTEGRATED INTO THE CONSTRUCTION OF A TYPE 1A WALL TYPE INFILL ADJACENT TO THE DOOR AND ABOVE THE DOOR

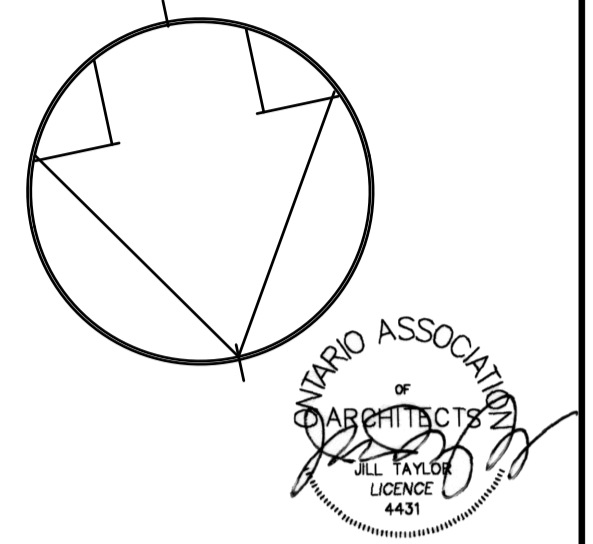
**RCP DEMOLITION NOTES**

- 13 REMOVE ACOUSTIC TILE CEILING PANELS AND SUSPENDED GRID AND REMOVE ALL LAYERS OF PLASTER OR GYP. BOARD OR ACT CEILINGS AND THEIR SUPPORT SYSTEMS THAT MAY BE CONCEALED ABOVE. REFER TO MECHANICAL AND ELECTRICAL FOR REMOVALS OF ASSOCIATED HVAC ASSEMBLY & LIGHTING FIXTURES.
- 14 REMOVE ANY OBSTRUCTIONS CAUSED BY REDUNDANT ELEMENTS FOUND ABOVE CEILING LEVEL, INCLUDING MISC. CEILING HANGERS, FILL AND REPAIR ALL AREAS ASSOCIATED WITH HVAC EQUIPMENT REMOVAL.
- 15 REMOVE EXISTING GWB BULKHEAD AT PERIMETER AND PREPARE CEILING FOR INSTALLATION OF NEW GWB BULKHEAD AT SAME LOCATION.
- 16 AREA OF COMPLETED CEILING GRID DEMOLITION COMPLETED UNDER SEPARATE CONTRACT, EXISTING LIGHTING FIXTURES TO BE REMOVED.

**LEGEND**

- AREA NOT IN CONTRACT
- EXISTING WALL
- NEW WALL

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105 CHRISTINA STREET SOUTH  
**FIT UP FOR A PUBLIC SAFETY CLIENT  
SARNIA, ONTARIO**

drawing title  
titre du dessin  
**DEMOLITION PLAN / RCP**

drawn by  
dessiné par **CHU**

designed by  
conçu par **CHU/ JT**

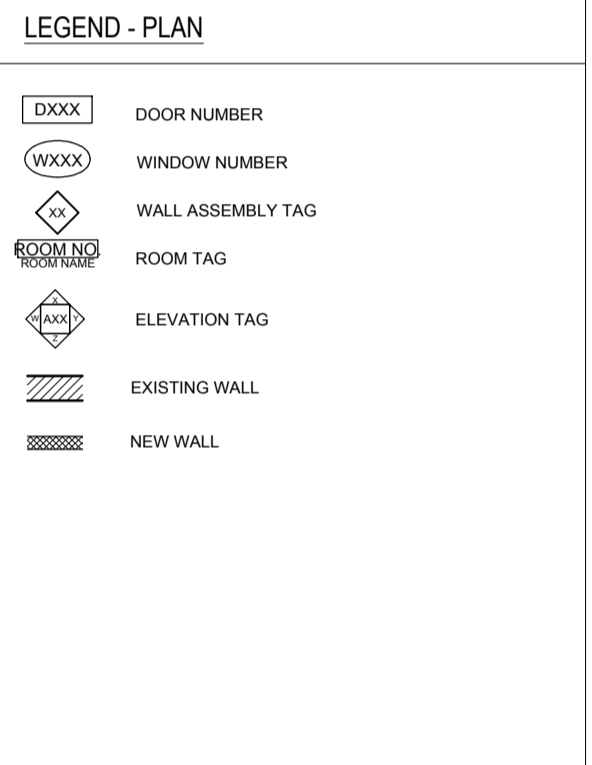
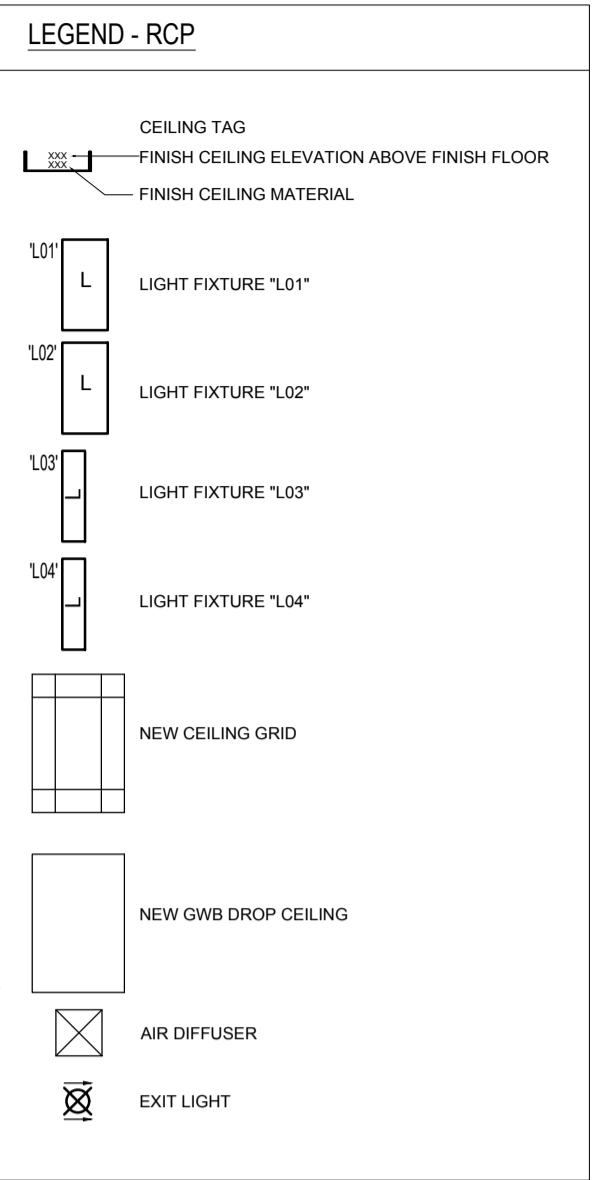
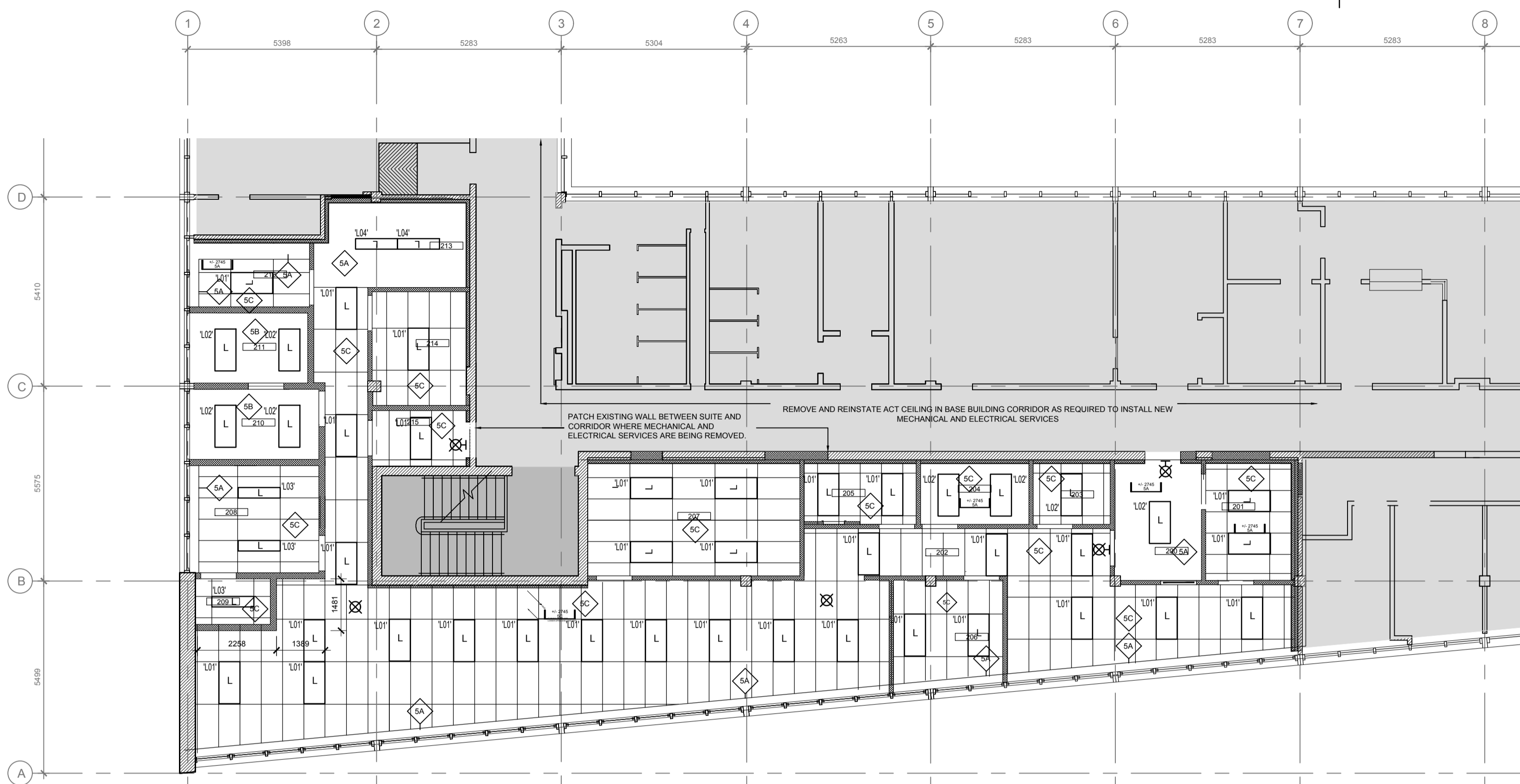
approved by  
approuvé par **J TAYLOR**

bid offer  
offre **A. MENIKGAMA** project manager  
administrateur de projets

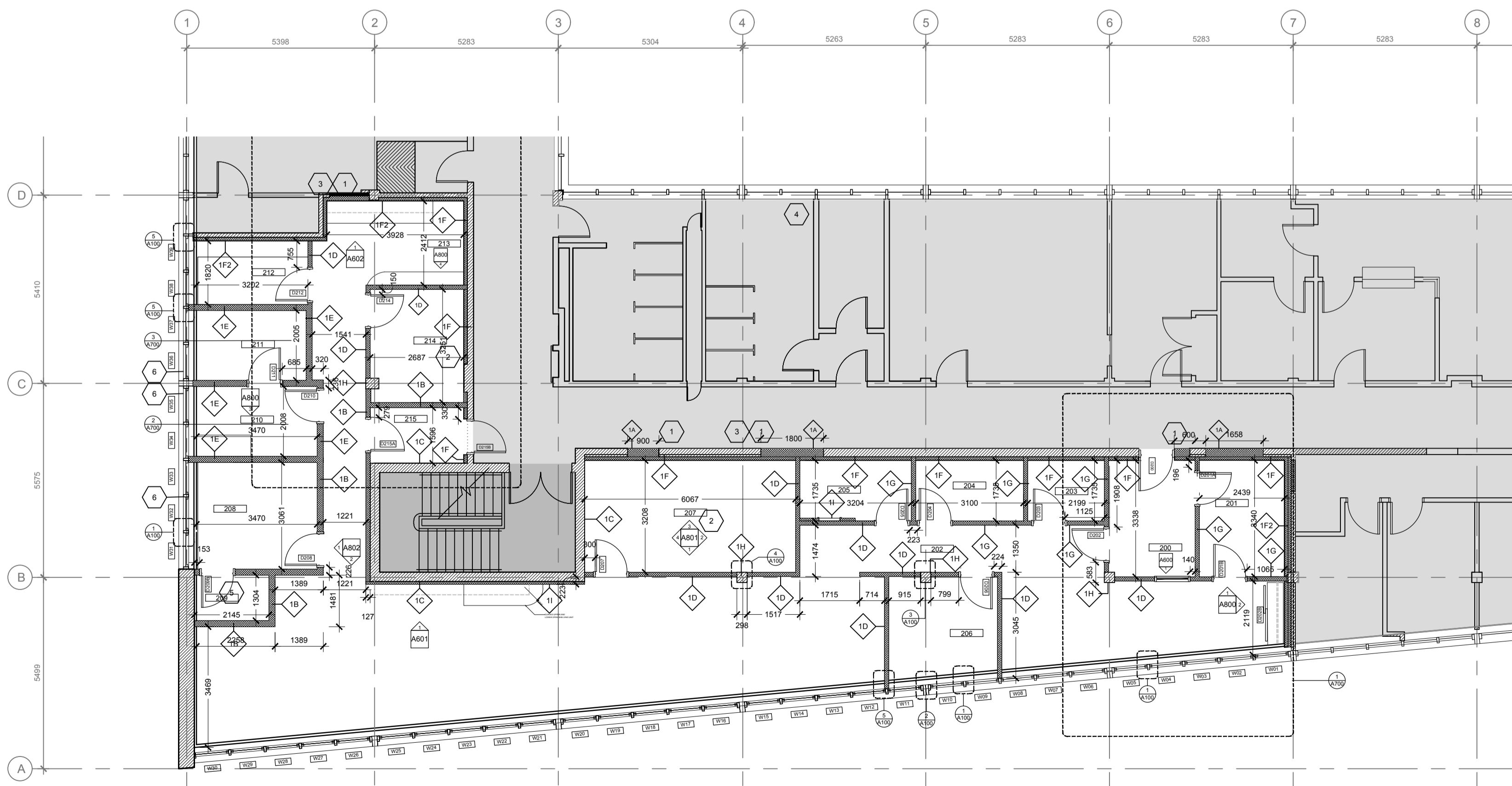
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date du projet **2015-12-17**

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R.073089.052**

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dessiné no. **A200**

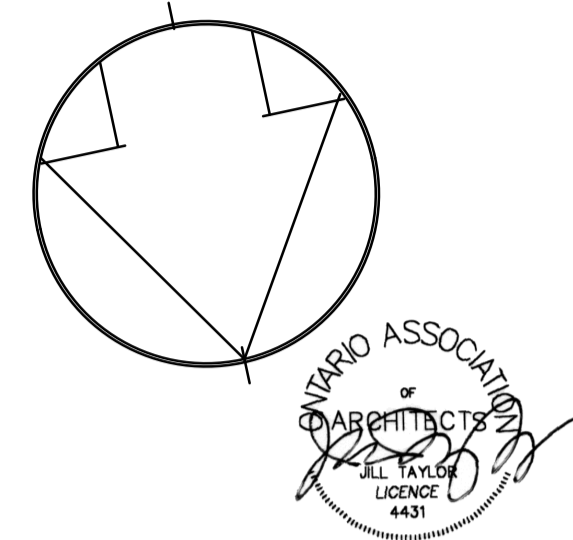


**2 NEW REFLECTED CEILING PLAN**  
A300 1:100



**1 NEW CONSTRUCTION PLAN**  
A300 1:100

- NEW WORK PLAN NOTES**
- EXISTING OPENING TO BE FILLED WITH NEW WALL. CUT AND PATCH EXISTING WALL TO CREATE SQUARE EDGE TO ALLOW FOR TIGHT FIT OF NEW WALL.
  - PATCH AND REPAIR ALL HOLES LEFT BY REMOVAL OF EXISTING MECHANICAL AND ELECTRICAL SERVICES. REFER TO MECHANICAL AND ELECTRICAL DRAWINGS TO LOCATIONS THAT REQUIRE PATCH AND REPAIR.
  - REPAIR EXISTING SPRAY APPLIED FIRE PROOFING WHERE EXISTING WALLS, MECHANICAL AND ELECTRICAL SERVICES HAVE BEEN REMOVED.
  - G.C. TO COORDINATE WITH FACILITY MANAGER FOR THE INSTALLATION OF 27MM CONDUIT FROM THE BUILDING CORRIDOR TO THE BUILDING EXTERIOR THROUGH THE CEILING SPACE.
  - G.C. TO COORDINATE WITH ELECTRICAL CONTRACTOR FOR THE SUPPLY AND INSTALLATION OF PLYWOOD BACKBOARD
  - REFER TO DETAILS 1/604 AND 2/604 FOR WINDOW CONDITION FOR ROOMS 211, 210, AND 208



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105 CHRISTINA STREET SOUTH  
**FIT UP FOR A PUBLIC SAFETY CLIENT**  
SARNIA, ONTARIO

drawing title  
titre du dessin  
**NEW WORK PLAN / RCP**

drawn by  
dessiné par **CHU**

designed by  
conc par **CHU/JT**

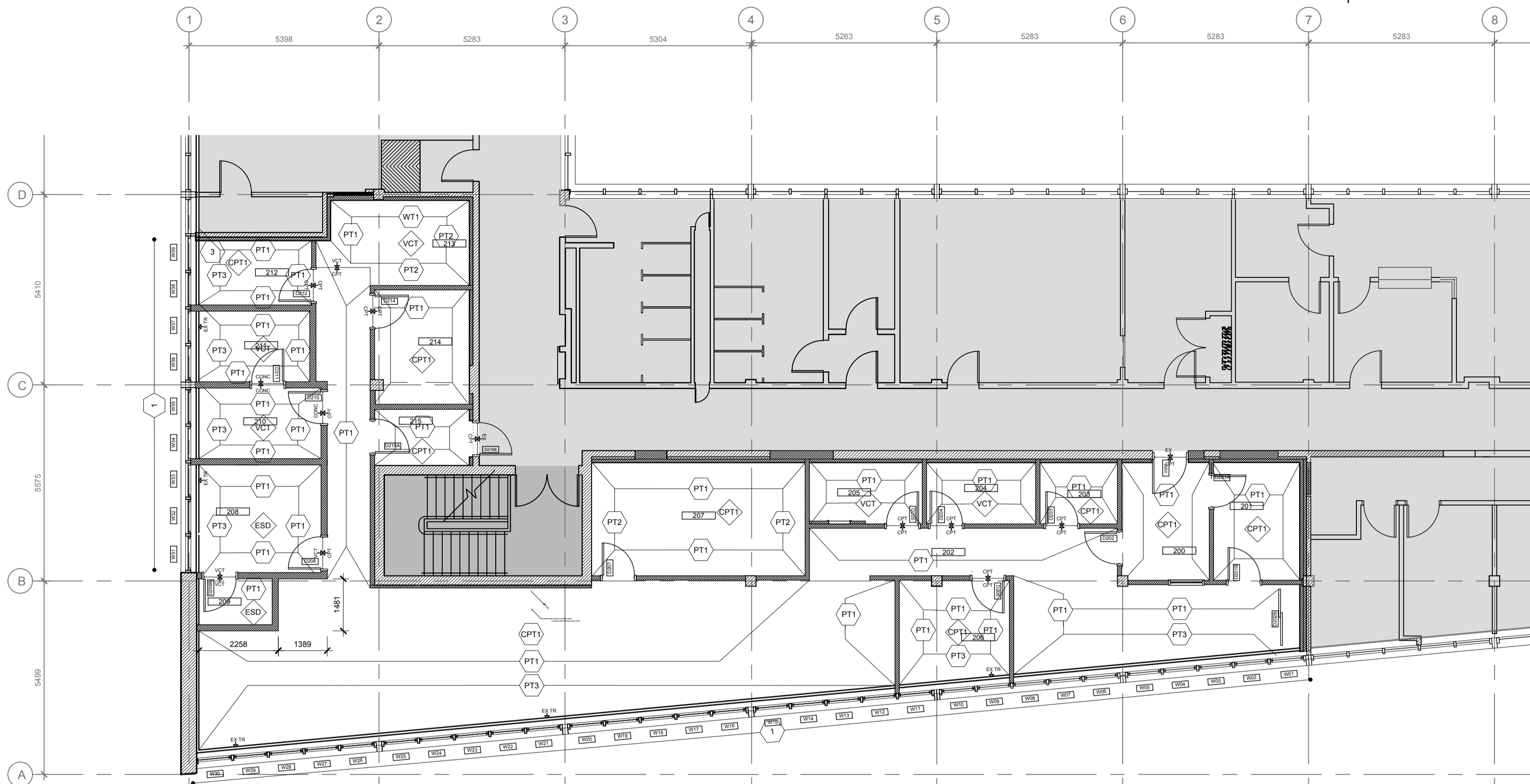
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approuvé par **J TAYLOR**

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administrateur de projets

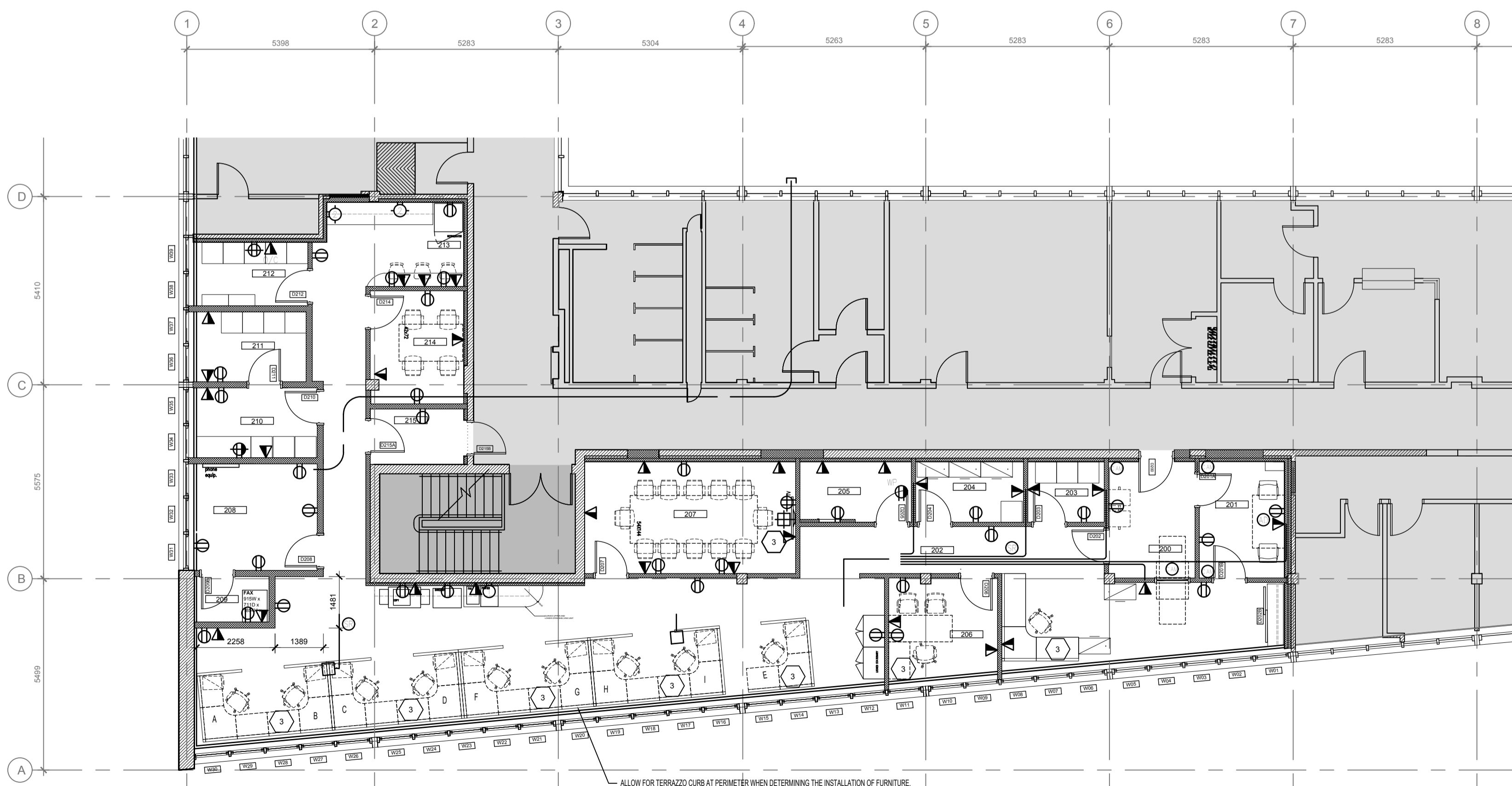
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date du projet **2015-12-17**

project no.  
no. du projet **R.073089.040**  
**R.073089.052**

drawing no.  
dessiné no. **A300**



**2 FINISHES PLAN**  
A300 1:100



**1 FURNITURE AND EQUIPMENT PLAN**  
A300 1:100 (FURNITURE NOT IN CONTRACT)

**LEGEND**

- AREA NOT IN CONTRACT
- EXISTING WALL
- NEW WALL

**FINISHES NOTES**

- 1 ALL WINDOWS WITHIN SUITE TO HAVE ONE WAY MIRROR SECURITY FILM APPLIED TO THE INTERIOR FACE.
- 2 CARPET TILE TO BE INSTALLED BASED ON MANUFACTURER (SELF TACKING CARPET TILE), NO GLUE ADHESIVE

**GENERAL NOTES**

- 3 MOUNT WALL SERVICES TO TV GRID LINE BETWEEN B&C -4&5, A.F.F 1525 O.C.

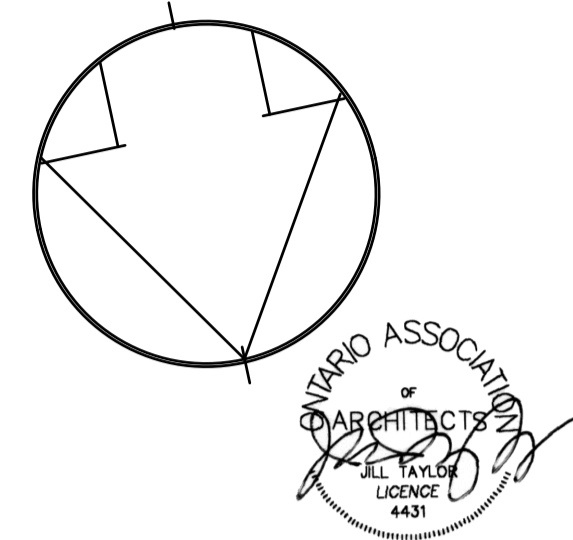
**LEGEND - FINISHES**

- WALL FINISH
- FLOOR FINISH
- FLOOR TRANSITION

**LEGEND - ELECTRICAL**

- WALL MOUNTED 120V, 15/20A (NEMA 5-20R) GROUNDED DUPLEX RECEPTACLE. M.H. 450mm A.F.F.
- WALL MOUNTED 120V, 15/20A (NEMA 5-20R) GROUNDED DUPLEX RECEPTACLE. MOUNTED 150mm OVER THE COUNTER LEVEL.
- WALL MOUNTED 120V, 15/20A (NEMA 5-20RA) GROUND FAULT DUPLEX RECEPTACLE MOUNTED OVER THE COUNTER LEVEL.
- WALL MOUNTED 120V, 15/20A (NEMA 5-20RA) GROUND FAULT DUPLEX RECEPTACLE. M.H. 450mm A.F.F. WP DENOTES WEATHERPROOF.
- WALL MOUNTED 120V, 15A, 2P GROUNDED SPLIT DUPLEX RECEPTACLE. M.H. 450mm A.F.F.
- WALL MOUNTED 20A, 120V, 1Ø, 3W GROUND FAULT INTERRUPTING RECEPTACLE MOUNTED 150mm OVER THE COUNTER LEVEL.
- CABLE TRAY MOUNTED 120V, 15/20A (NEMA 5-20R) GROUNDED DUPLEX RECEPTACLE.
- CABLE TRAY MOUNTED 120V, 20A (NEMA L5-20R) TWISTED LOCK GROUNDED RECEPTACLE.
- CABLE TRAY MOUNTED 120V, 30A (NEMA L5-30R) TWISTED LOCK GROUNDED RECEPTACLE.
- SERVICE POLE
- 120V, 1Ø OUTLET FOR EQUIPMENT AS NOTED. VAV DENOTES FAN POWERED BOX.
- UNFUSED DISCONNECT SWITCH BY DIV 26. 'X' DENOTES DISCONNECT SIZE.
- SIREN - 4 CONDUCTOR AS PER SPECIFICATION PACKAGE SECTION 5.1.1.
- SECURITY CAMERA - 2 CONDUCTOR AS PER SPECIFICATION PACKAGE SECTION 5.1.2 AND VIDEO CABLE. AS PER SPECIFICATION PACKAGE SECTION 5.1.3
- KEY PAD - 4 CONDUCTOR AS PER SPECIFICATION PACKAGE SECTION 5.1.1
- MOTION DETECTOR - 4 CONDUCTOR AS PER SPECIFICATION PACKAGE SECTION 5.1.1
- DOOR CONTACT - 4 CONDUCTOR AS PER SPECIFICATION PACKAGE SECTION 5.1.1
- CARD READER - 4 CONDUCTOR AS PER SPECIFICATION PACKAGE SECTION 5.1.1
- AUDIO SIGNAL - 4 CONDUCTOR AS PER SPECIFICATION PACKAGE SECTION 5.1.1

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105 CHRISTINA STREET SOUTH  
**FIT UP FOR A PUBLIC SAFETY CLIENT SARNIA, ONTARIO**

drawing title / titre du dessin  
**FINISHES AND FURNITURE PLAN**

drawn by / dessiné par **MO**

designed by / conçu par **MO \ JT**

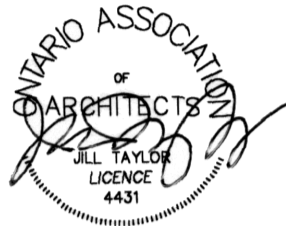
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bid / offre **A. MENIKGAMA** project manager / administrateur de projets

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drawing no. / dessiné no. **A400**



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**DETAILS**

drawn by / dessiné par **CHU**

designed by / conçu par **CHU/JT**

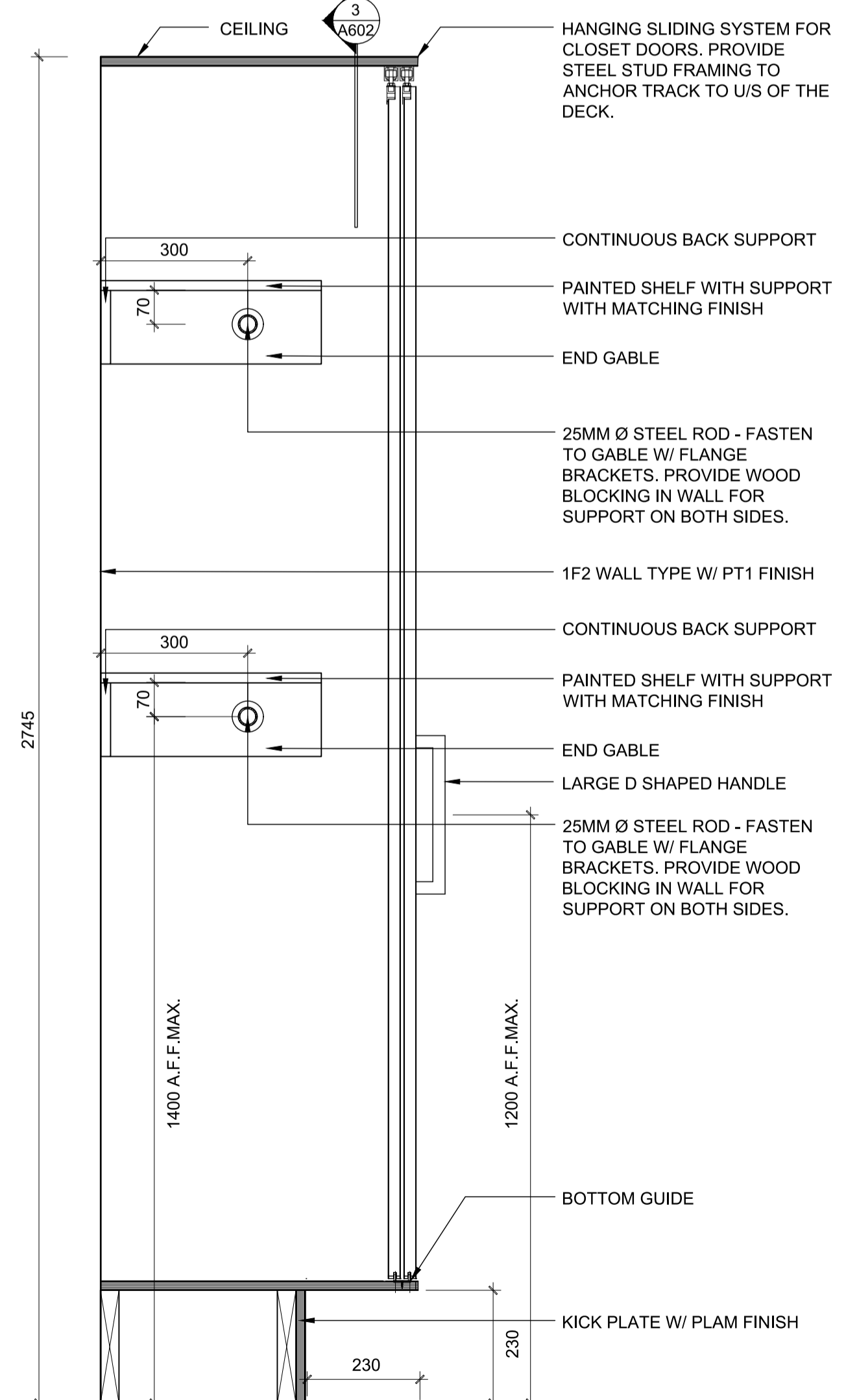
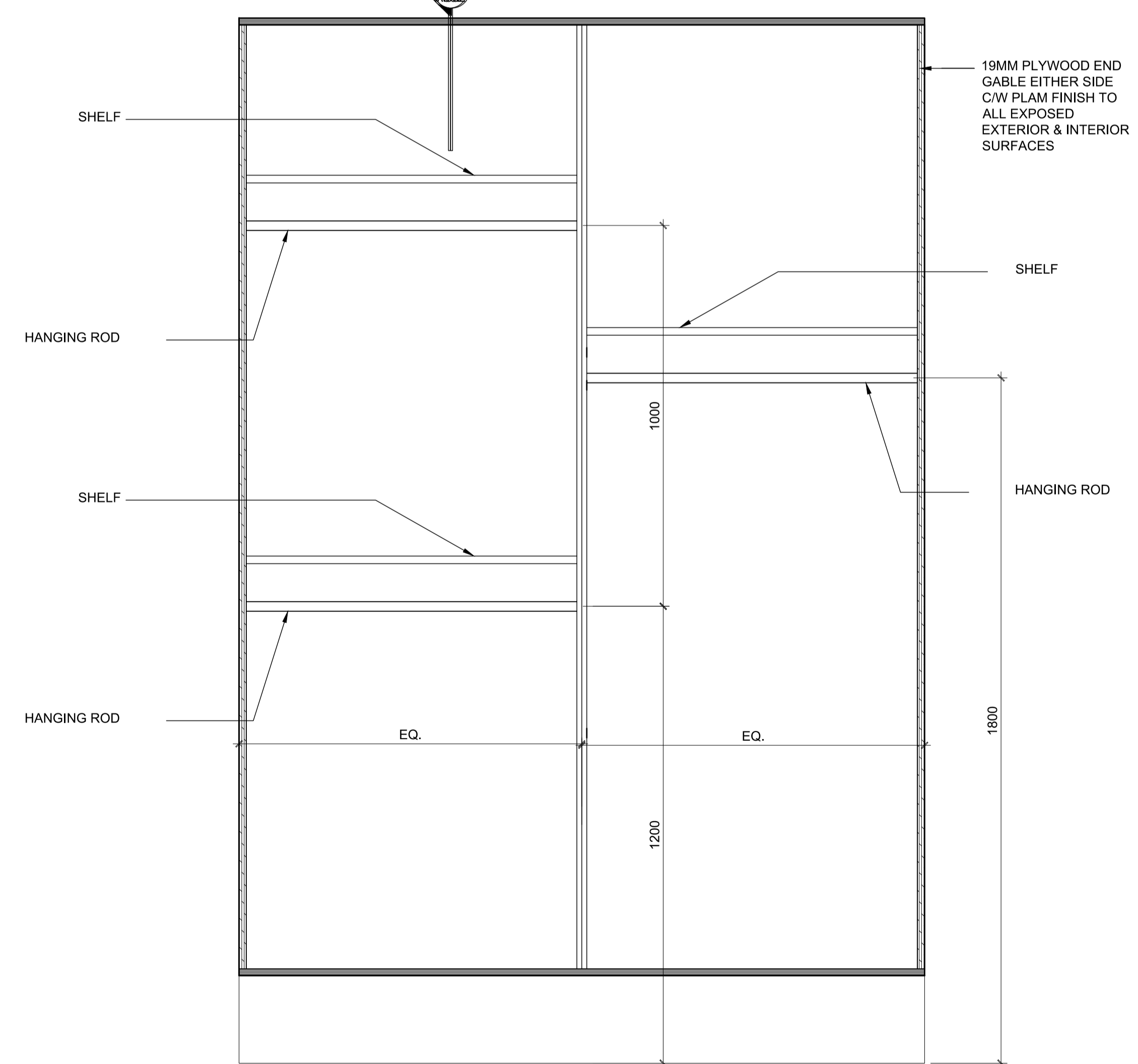
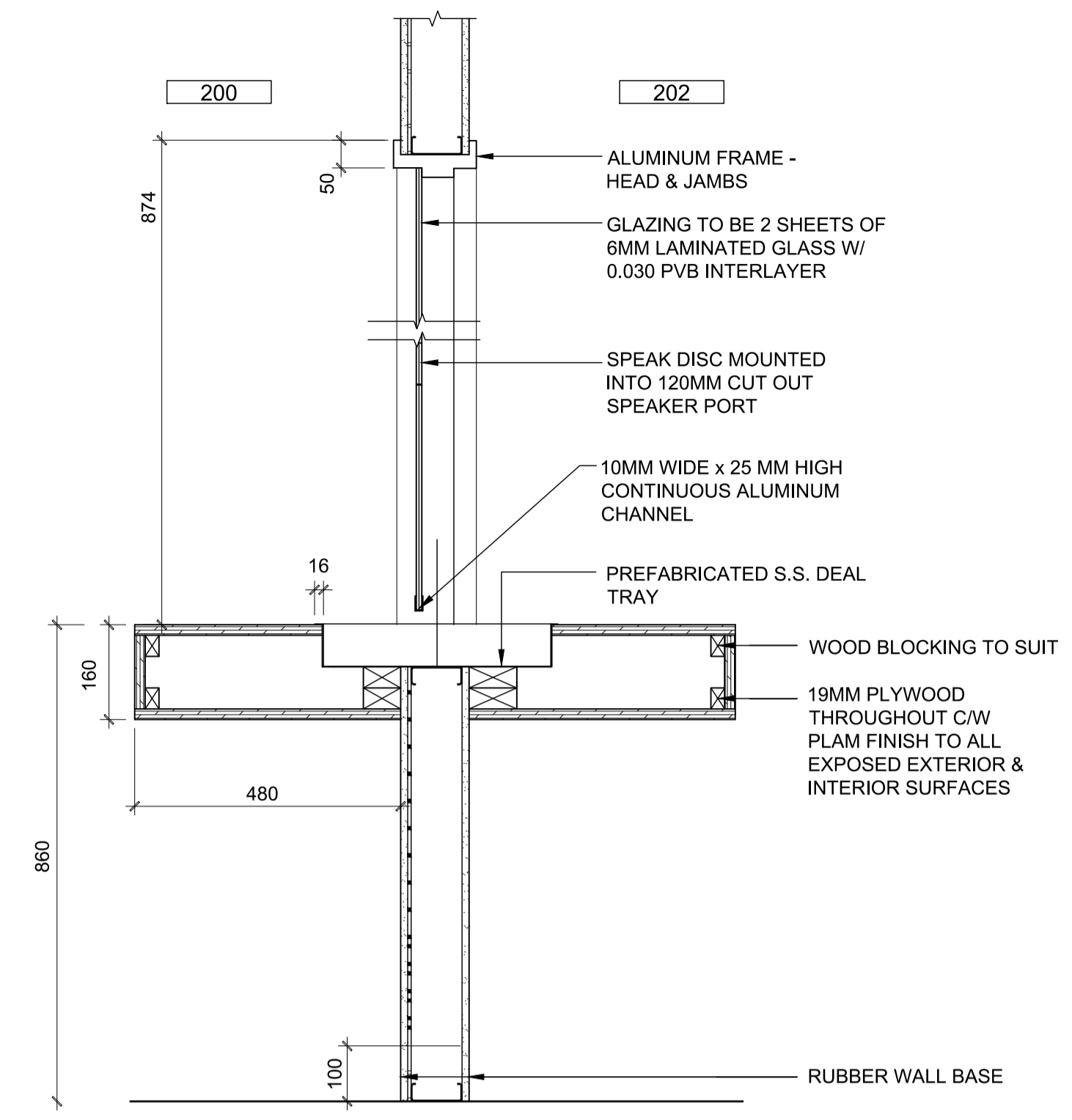
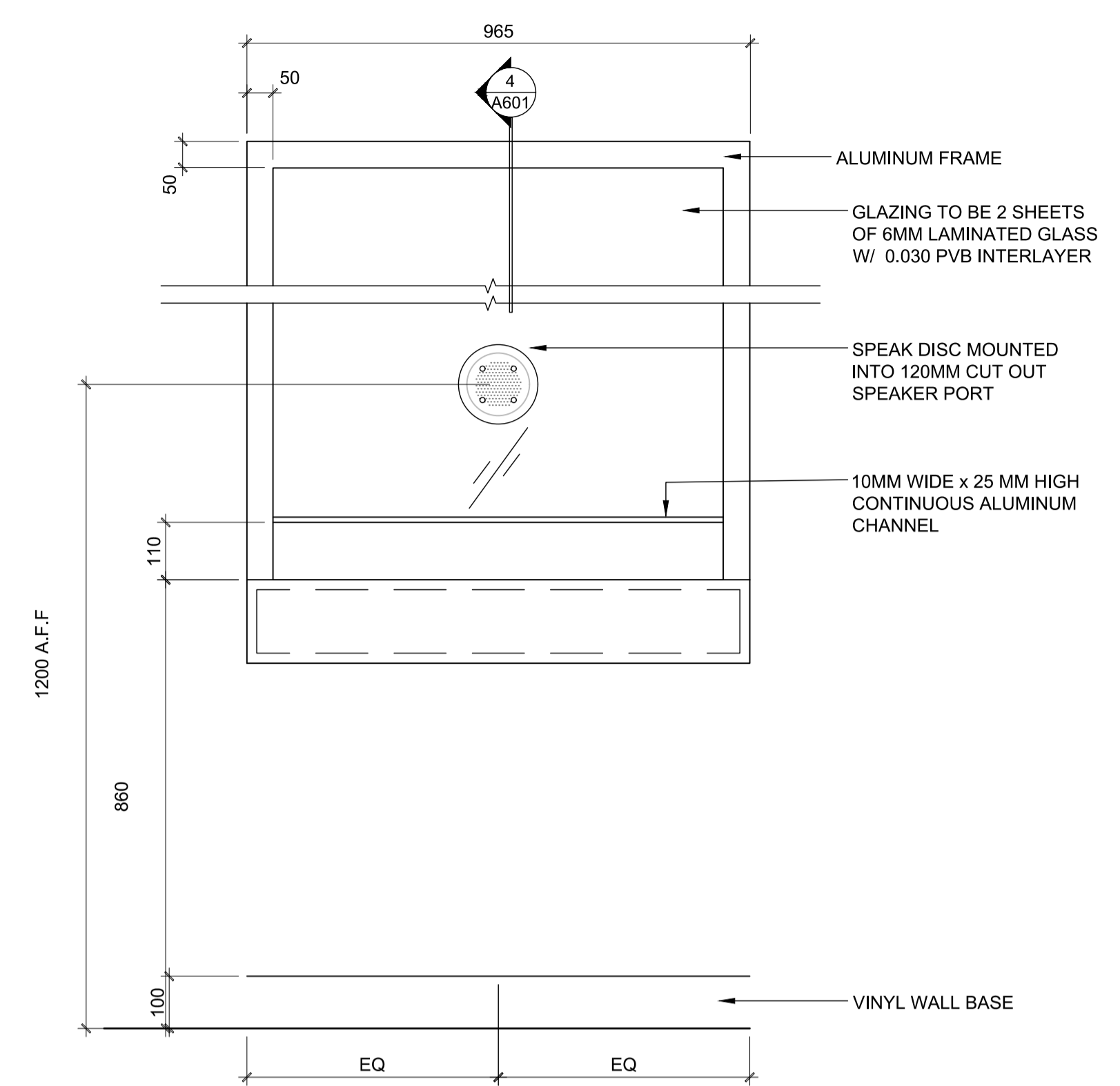
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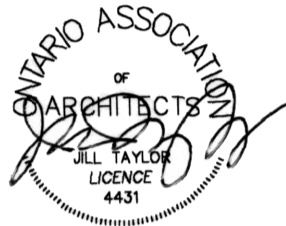
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titre du projet

105 CHRISTINA STREET SOUTH  
**FIT UP FOR A PUBLIC SAFETY CLIENT  
SARNIA, ONTARIO**

drawing title  
titre du dessin  
**DETAILS**

drawn by  
dessiné par **CHU**

designed by  
conçu par **CHU \ JT**

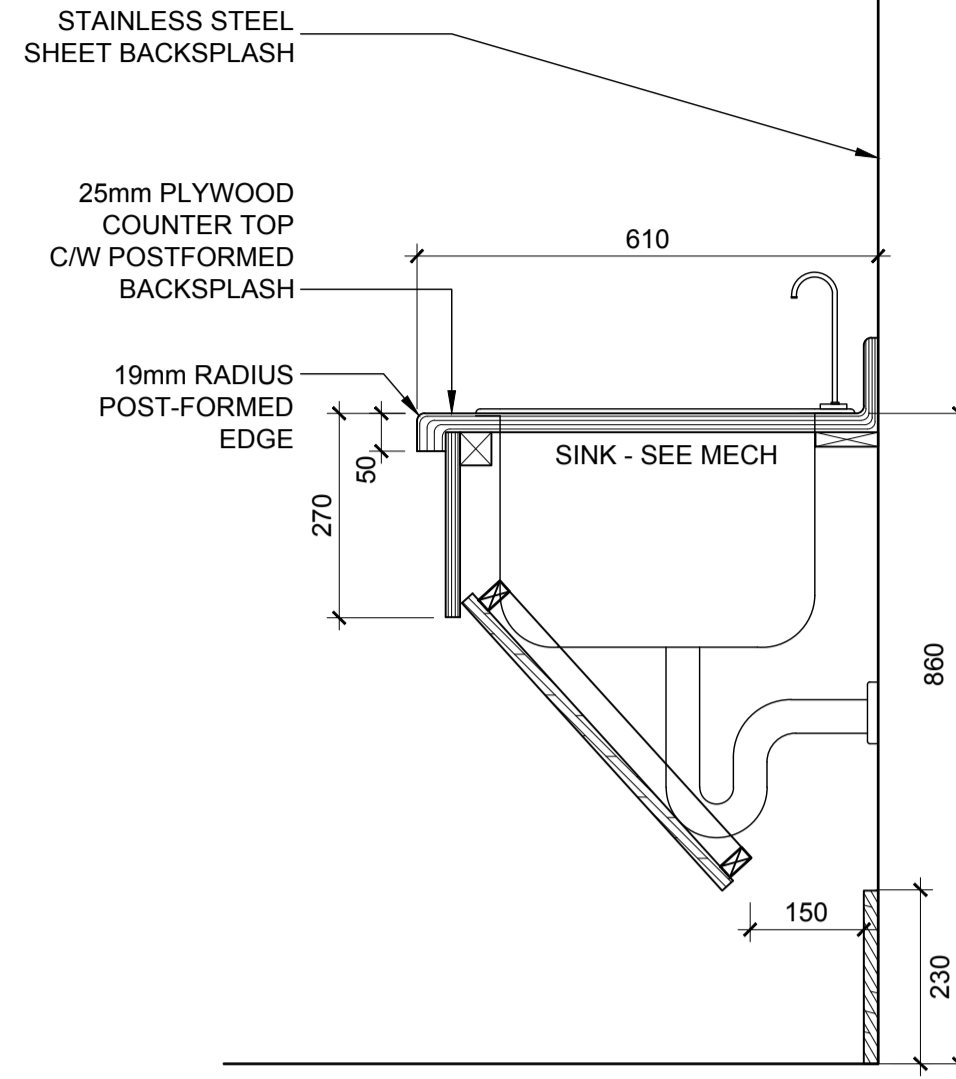
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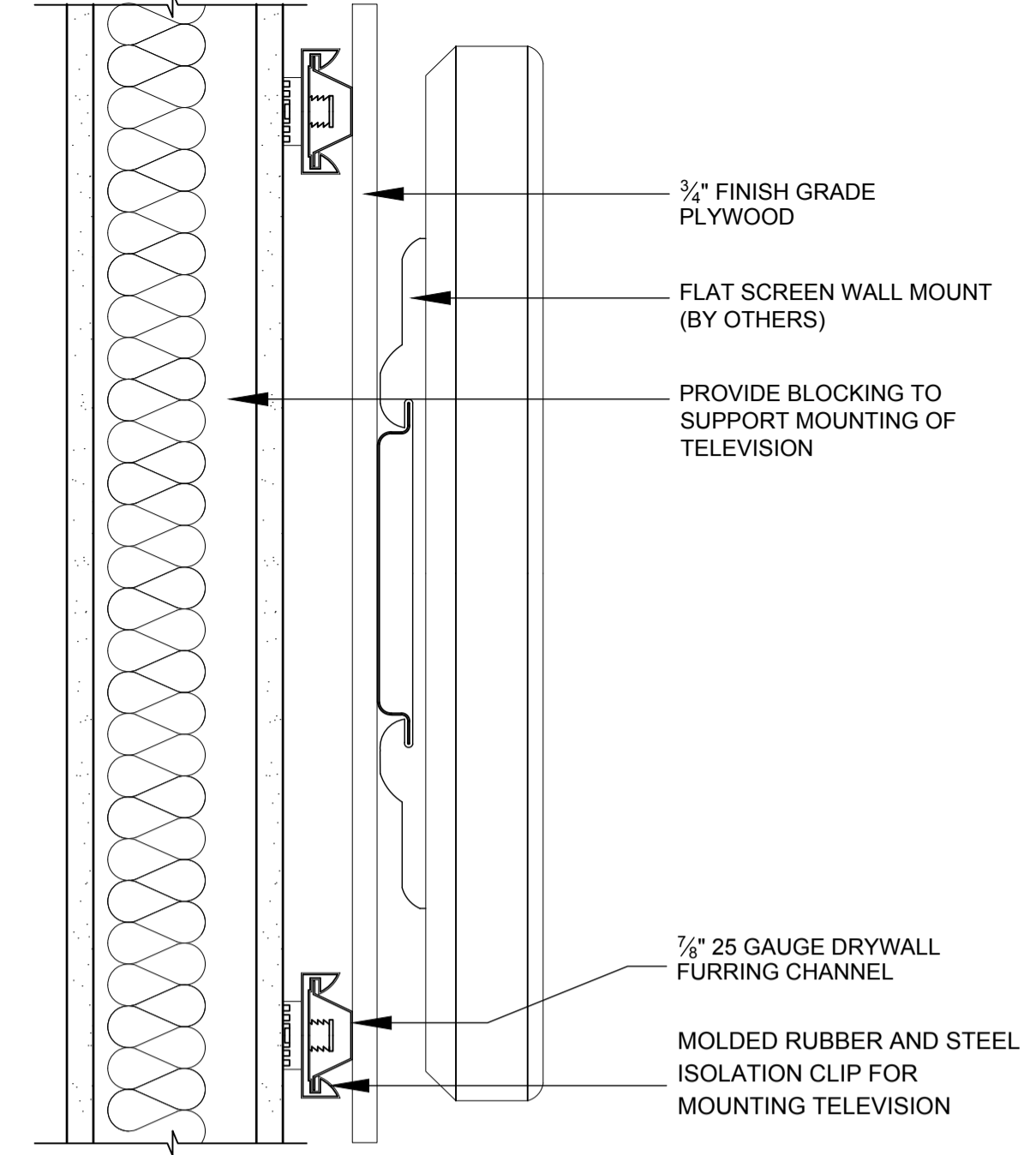
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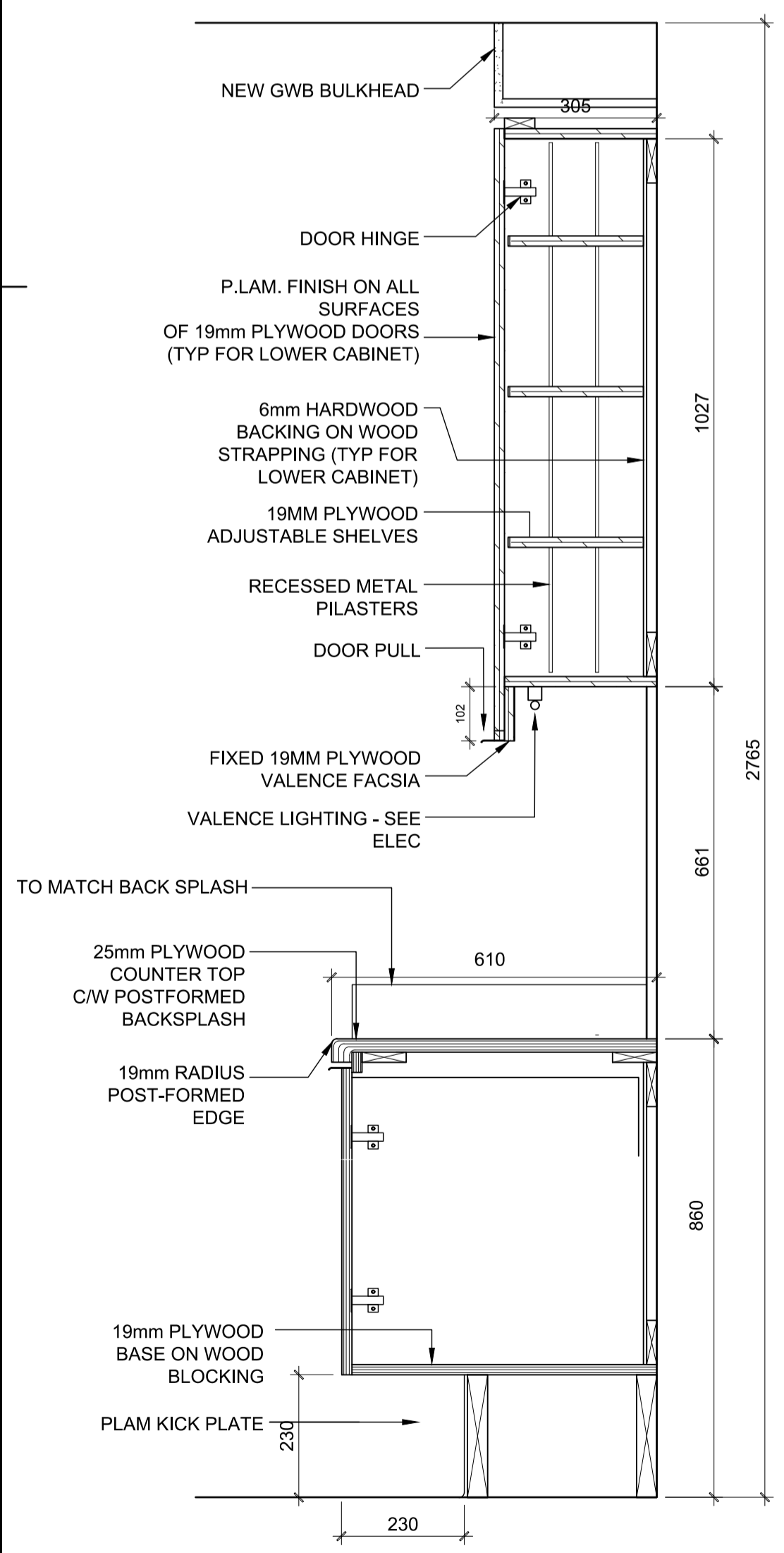
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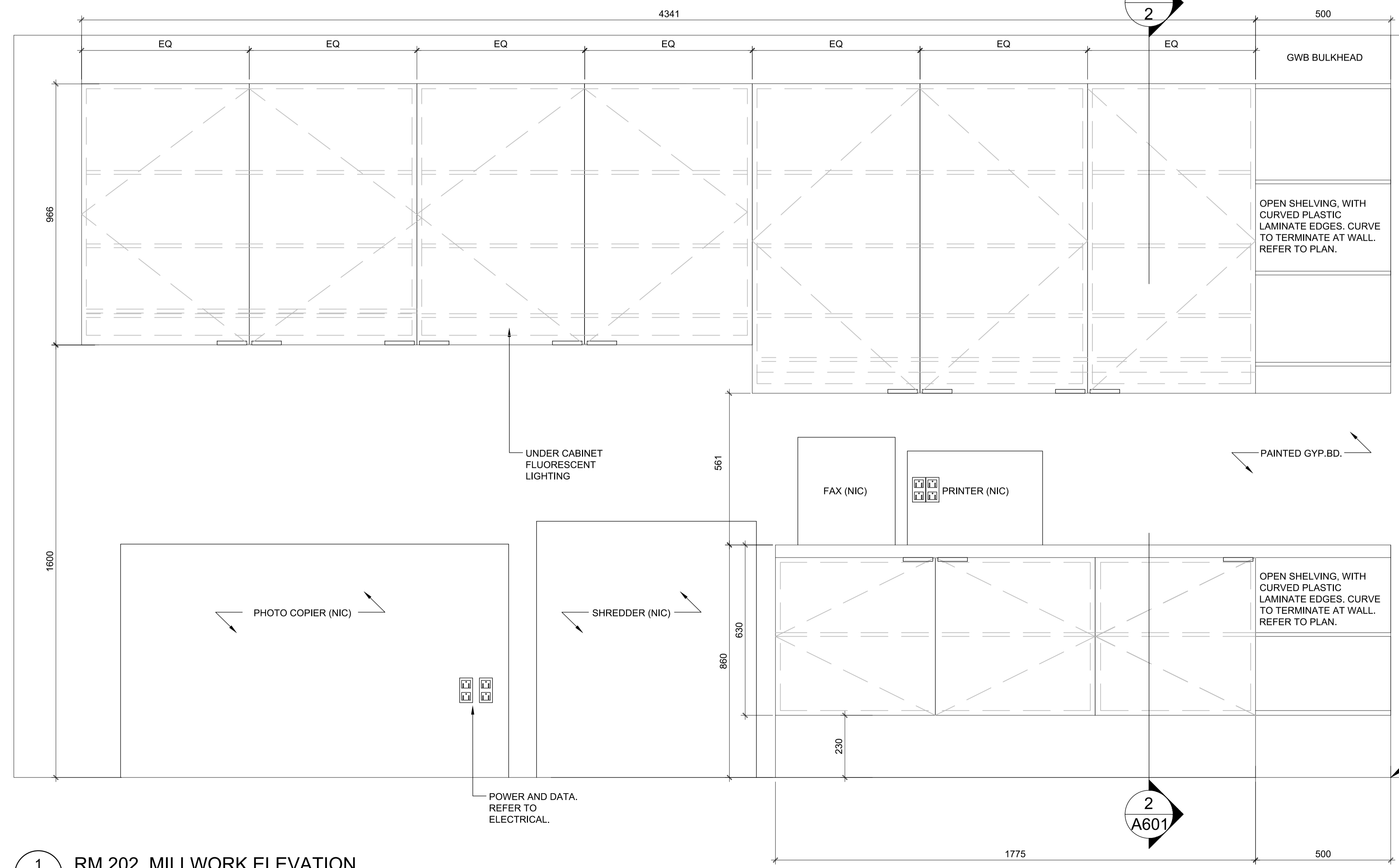
**4 RM 210 COUNTER SECTION**  
A601 1:10



**3 RM 207 TV MOUNT**  
A601 1:5

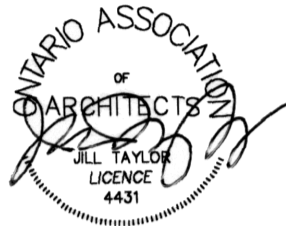


**2 RM 202 MILLWORK SECTION**  
A601 1:10 BUSINESS CENTRE



**1 RM 202 MILLWORK ELEVATION**  
A601 1:10 BUSINESS CENTRE





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05		
04	SUBMITTED FOR 99% CLIENT REVIEW	2016/09/02
03	SUBMITTED FOR 66% CLIENT REVIEW	2016/07/15
02	SUBMITTED FOR 66% CLIENT REVIEW	2016/03/30
01	SUBMITTED FOR PRELIMINARY REVIEW	2016/03/24
revision		date

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A	Detail No.
B	drawing no. - where detail required
C	drawing no. - where detailed

project title  
titre du projet

105 CHRISTINA STREET SOUTH  
**FIT UP FOR A PUBLIC SAFETY CLIENT  
SARNIA, ONTARIO**

drawing title  
titre du dessin  
**DETAILS**

drawn by  
dessiné par **CHU**

designed by  
conçu par **CHU \ JT**

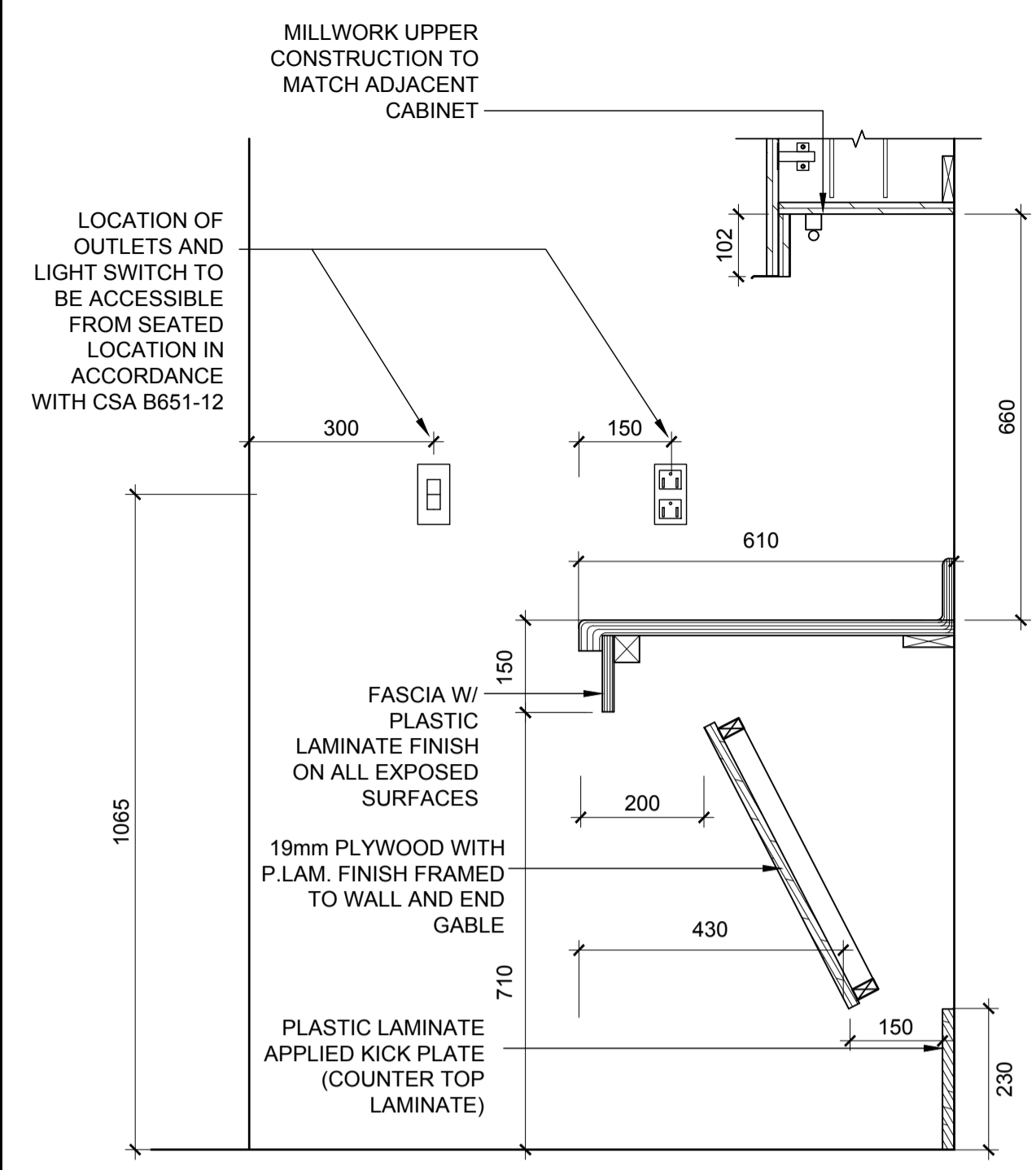
approved by  
approuvé par **J TAYLOR**

bid offer  
offre **A. MENIKGAMA** project manager  
administrateur de projets

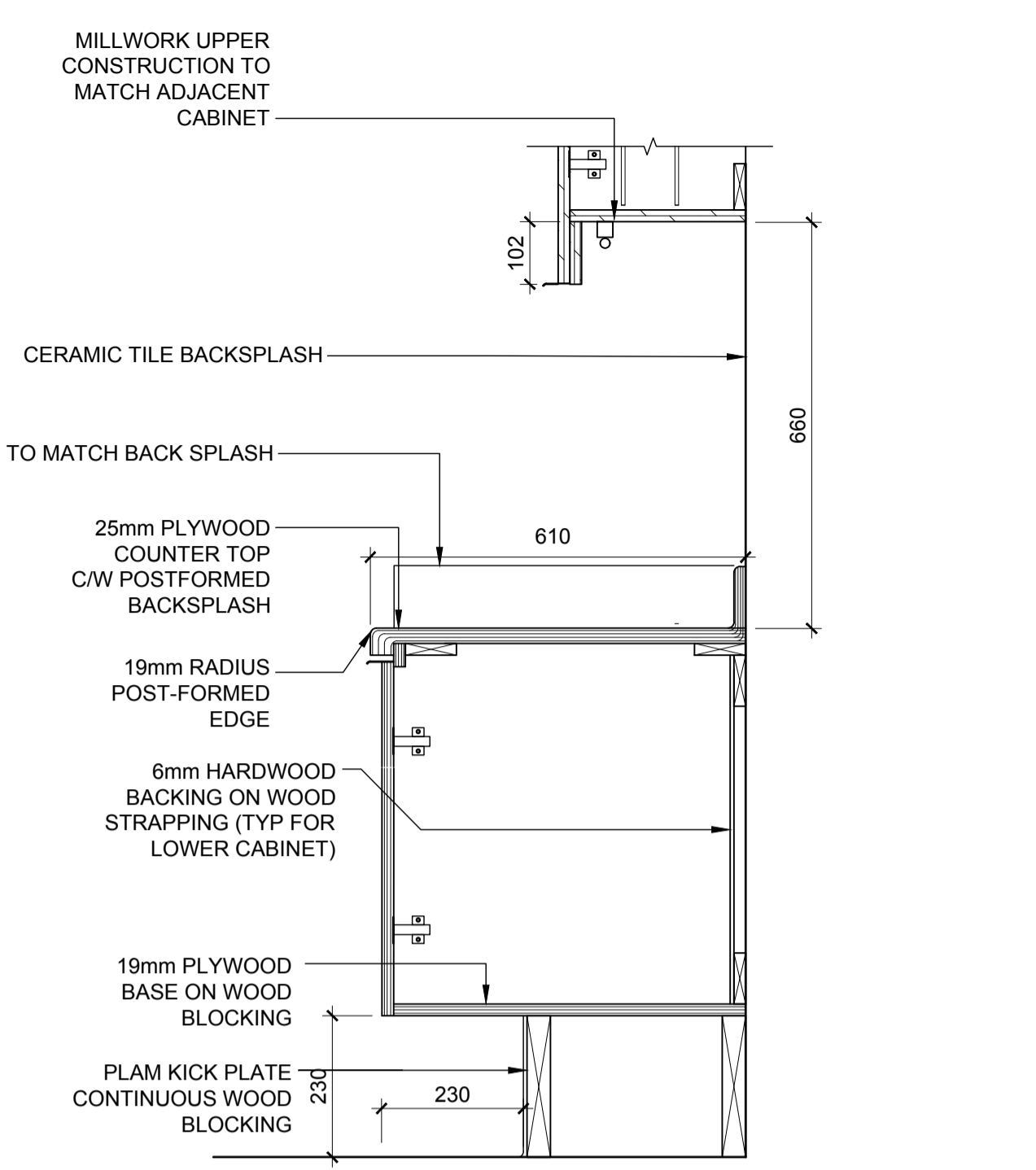
project date  
date du projet **2015-12-17**

project no.  
no. du projet **R.073089.040  
R.073089.052**

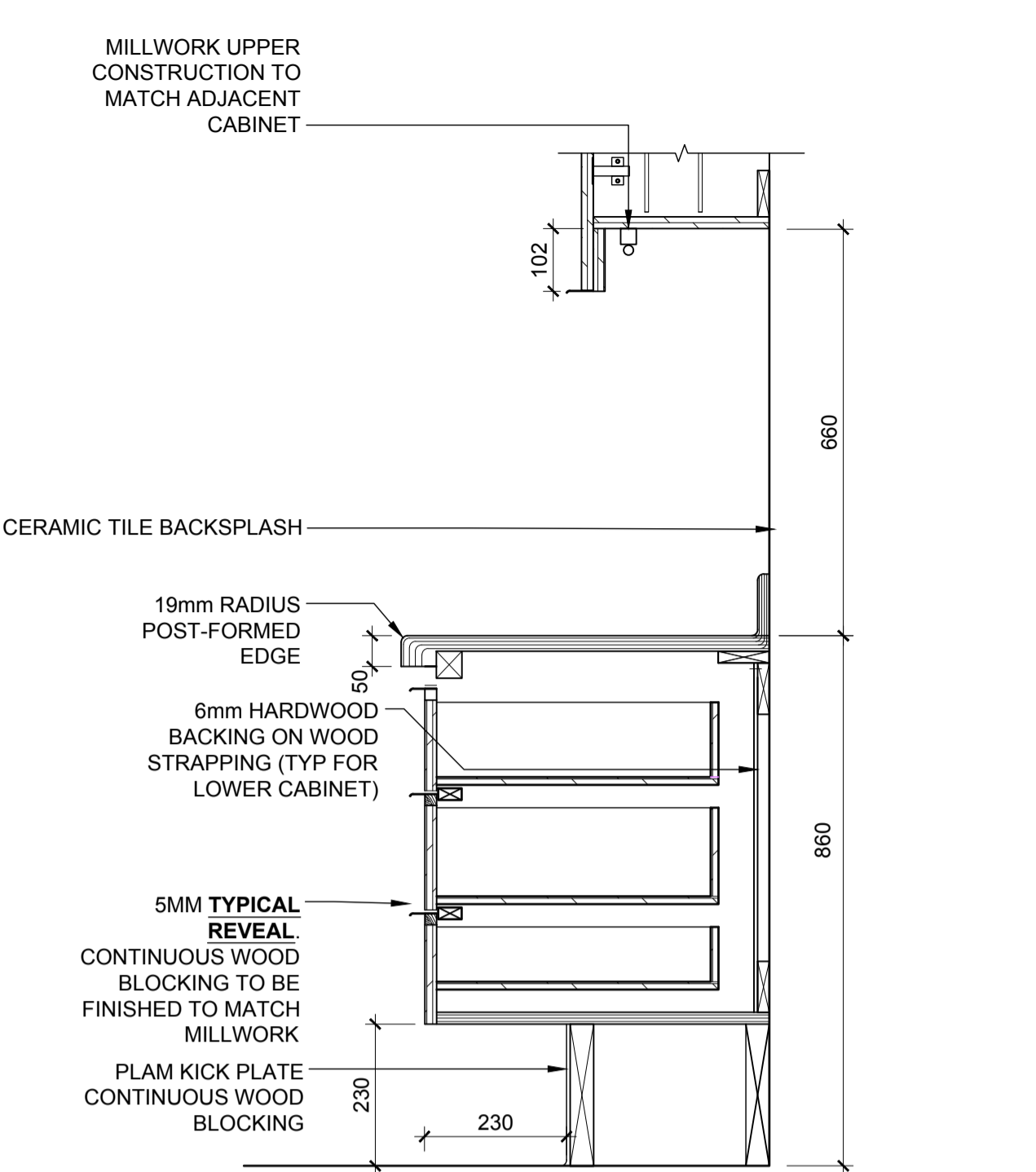
drawing no.  
dessiné no. **A602**



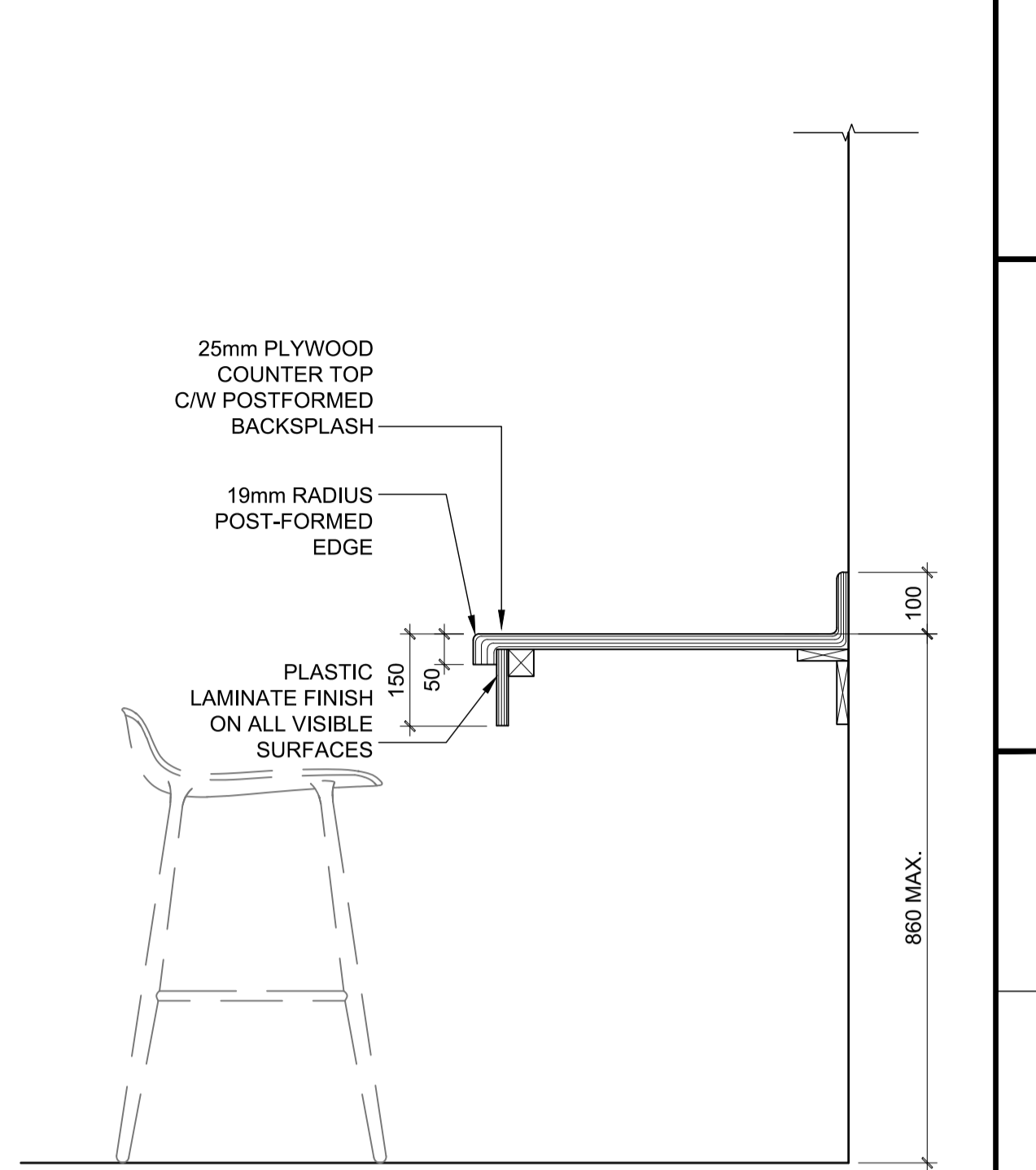
6 RM 213 SECTION @ SIDE WALL  
A602 1:10



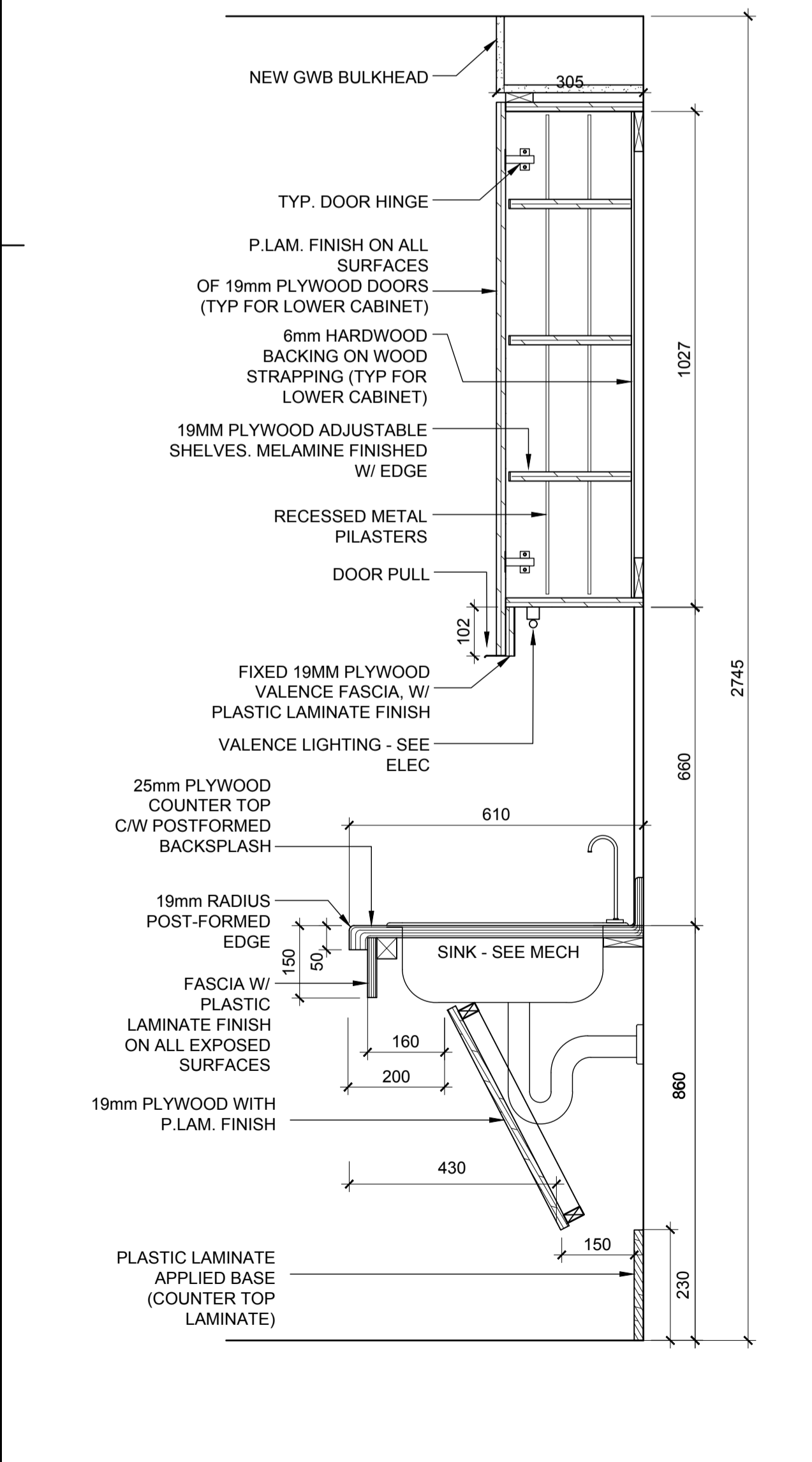
4 RM 213 CABINET SECTION  
A602 1:10



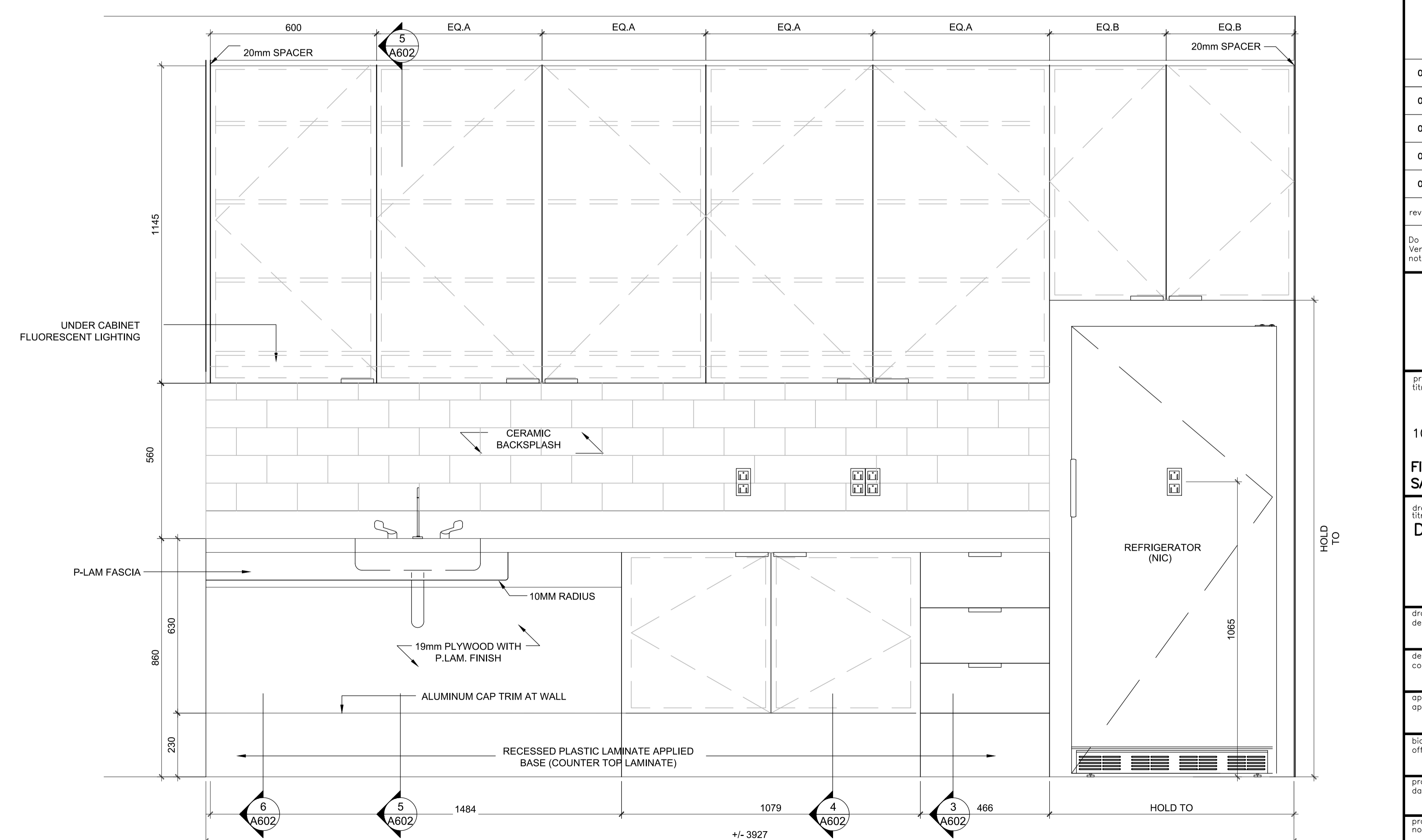
3 RM 213 DRAWER SECTION  
A602 1:10



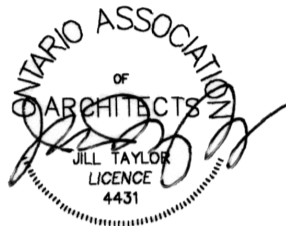
2 RM 213 COUNTER SECTION  
A602 1:10



5 RM 213 SINK SECTION  
A602 1:10



1 RM 213 ELEVATION  
A602 1:10



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105 CHRISTINA STREET SOUTH  
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drawing title  
titre du dessin  
**DETAILS**

drawn by  
dessiné par **CHU**

designed by  
conçu par **CHU \ JT**

approved by  
approuvé par **J TAYLOR**

bid  
offre **A. MENIKGAMA** project manager  
administrateur de projets

project date  
date du projet **2015-12-17**

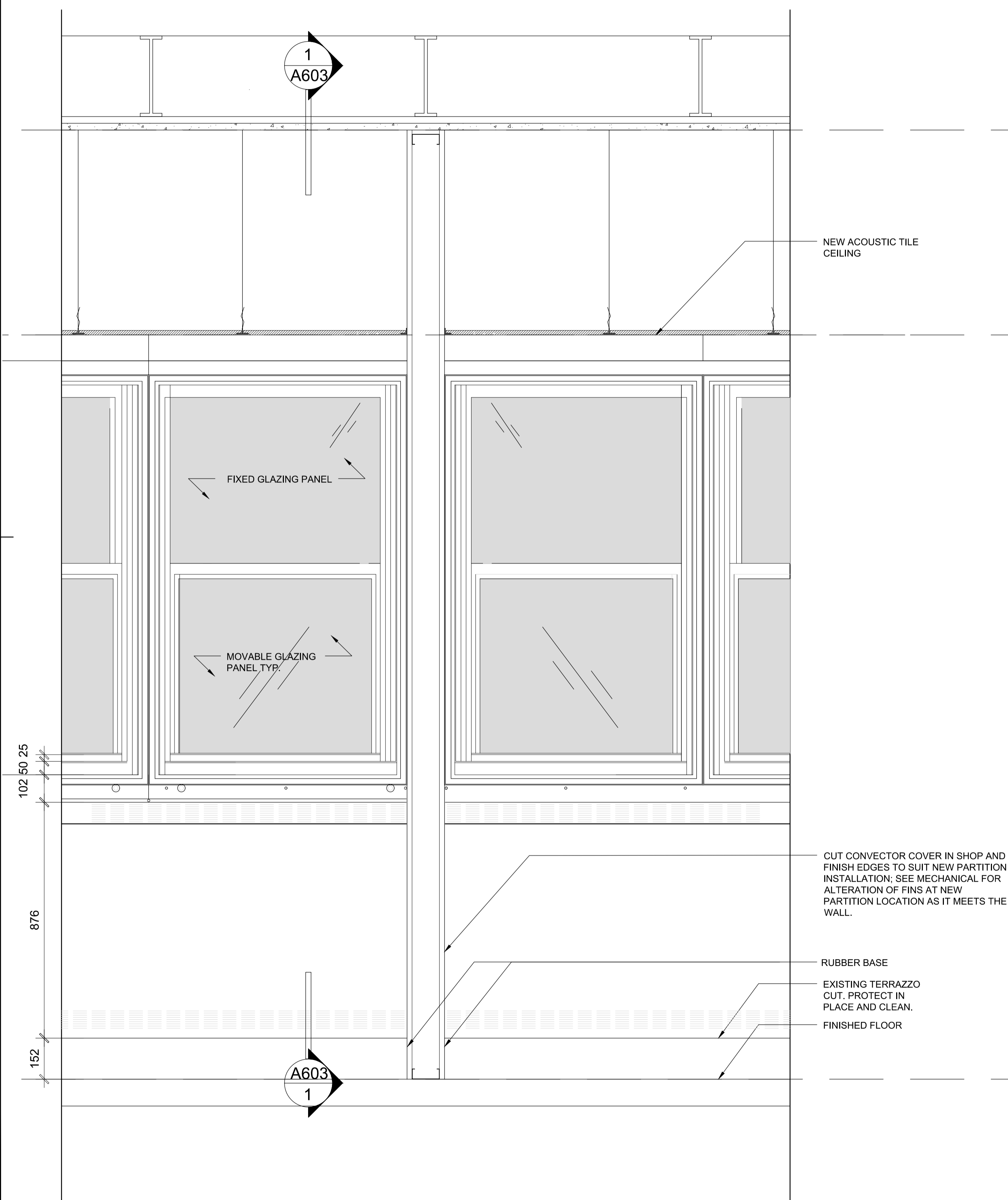
project no.  
no. du projet **R.073089.040  
R.073089.052**

drawing no.  
dessiné no. **A603**

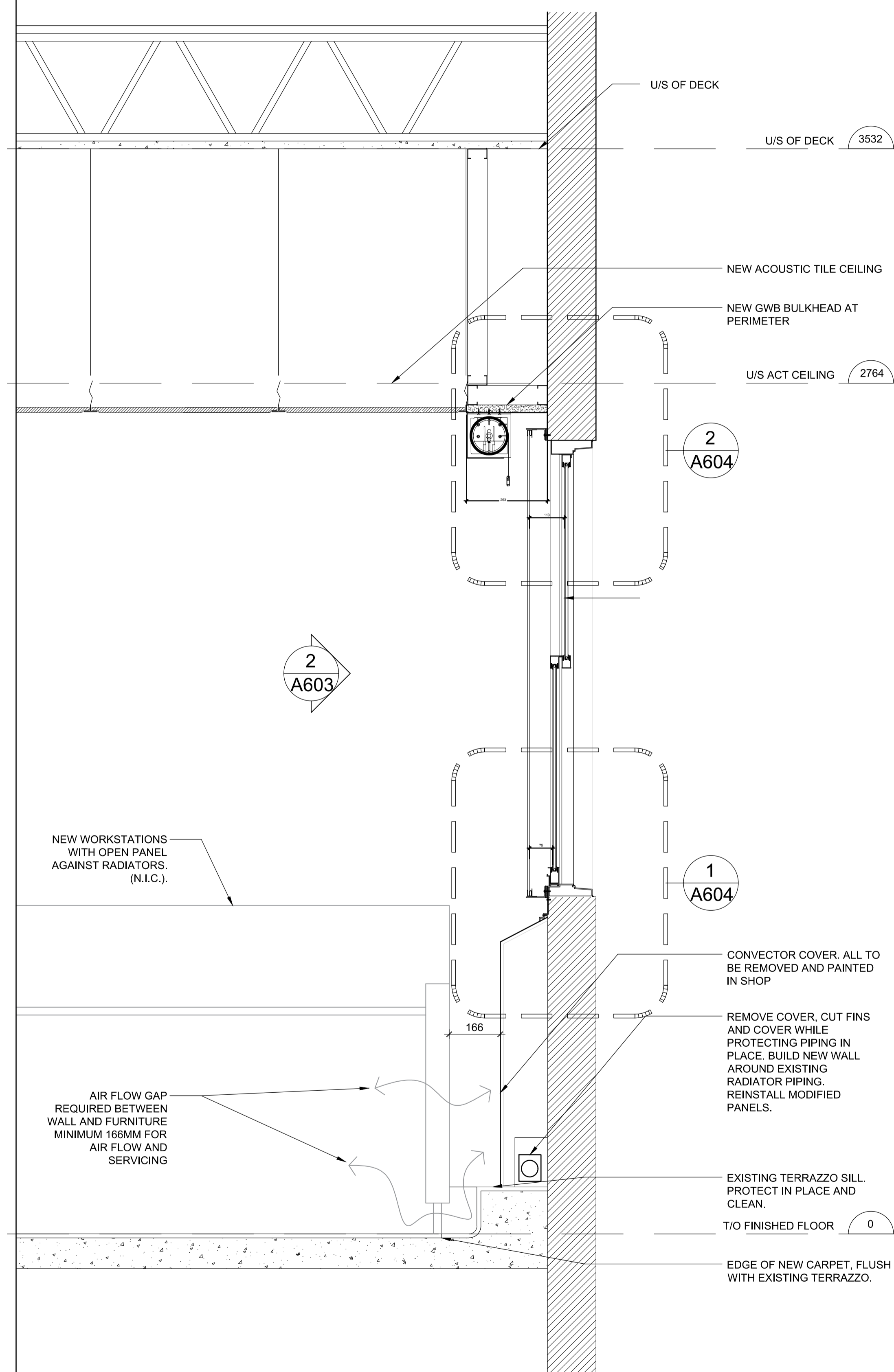
- STAGES OF WORK FOR RETROFIT OF EXISTING EXTERIOR WINDOWS TO ACHIEVE STC 35 RATING**
1. REMOVE ALL EXISTING SEALANT AND CLEAN WINDOW SILLS AND FRAME INTERIOR.
  2. ADJUST WINDOWS TO SIT SQUARE IN FRAME.
  3. CUT OFF EXISTING CORD STAYS TO ALLOW FOR SMOOTH SURFACE FOR NEW STORM WINDOW INSTALLATION.
  4. PREPARE MEASURED SHOP DRAWINGS FOR STORM WINDOW PRODUCTION.
  5. PREPARE METAL FRAMES FOR REPAINTING. PRIME AND REPAINT 2 COATS.
  6. MECHANICALLY FASTEN EACH WINDOW IN 4 LOCATIONS TO SECURE IN PLACE.
  7. INSTALLED NEW CUSTOM INTERIOR STORM WINDOW MOUNTING BRACKETS.
  8. INSTALL NEW CUSTOM INTERIOR STORM WINDOWS.
  9. REQUEST THIRD PARTY TESTING TO CONFIRM STC 35 RATING HAS BEEN ACHIEVED.

**LEGEND**

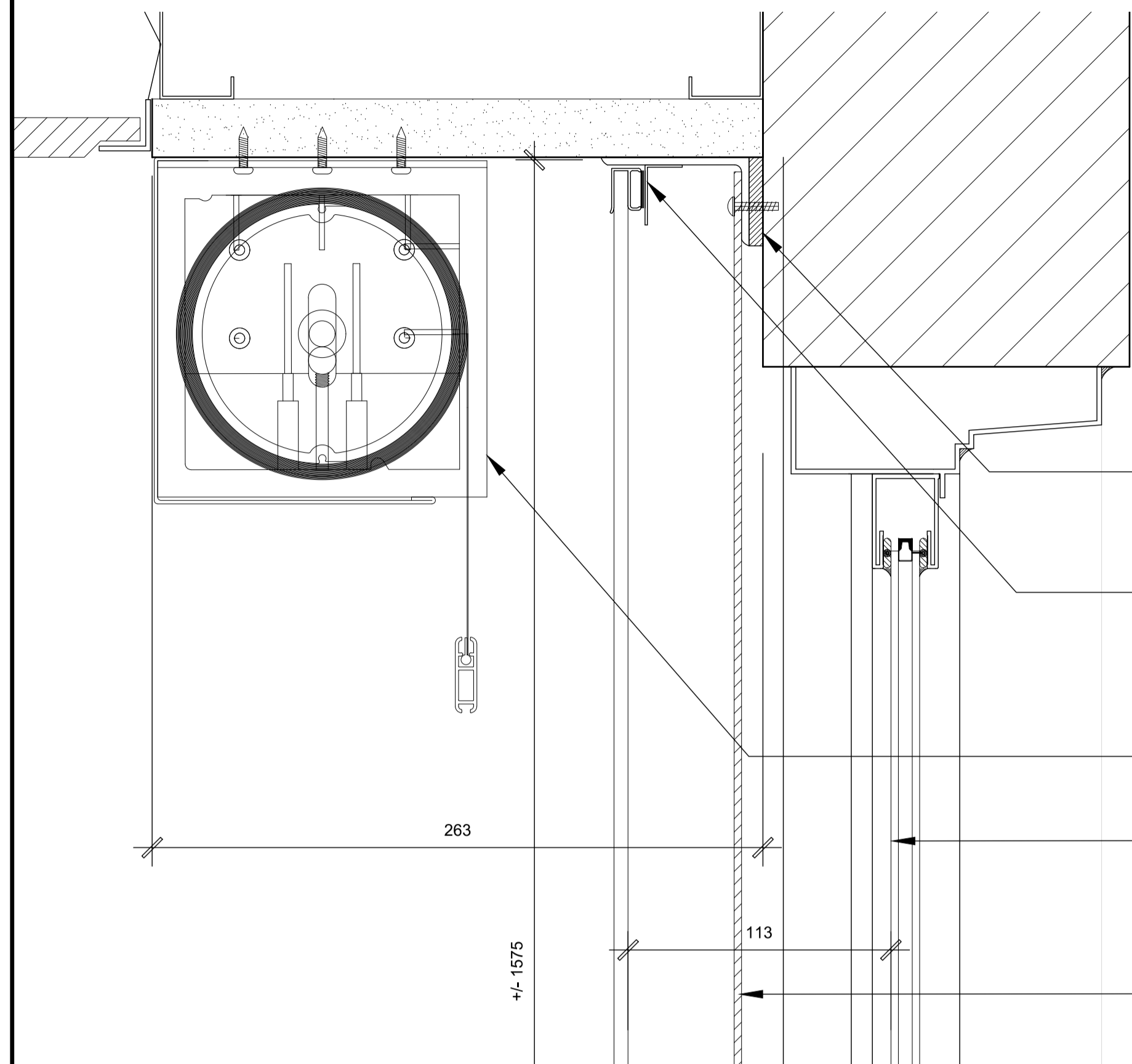
3M NIGHT VISION 15 REFLECTIVE SECURITY FILM TO BE AFFIXED TO INTERIOR FACE OF GLAZING.



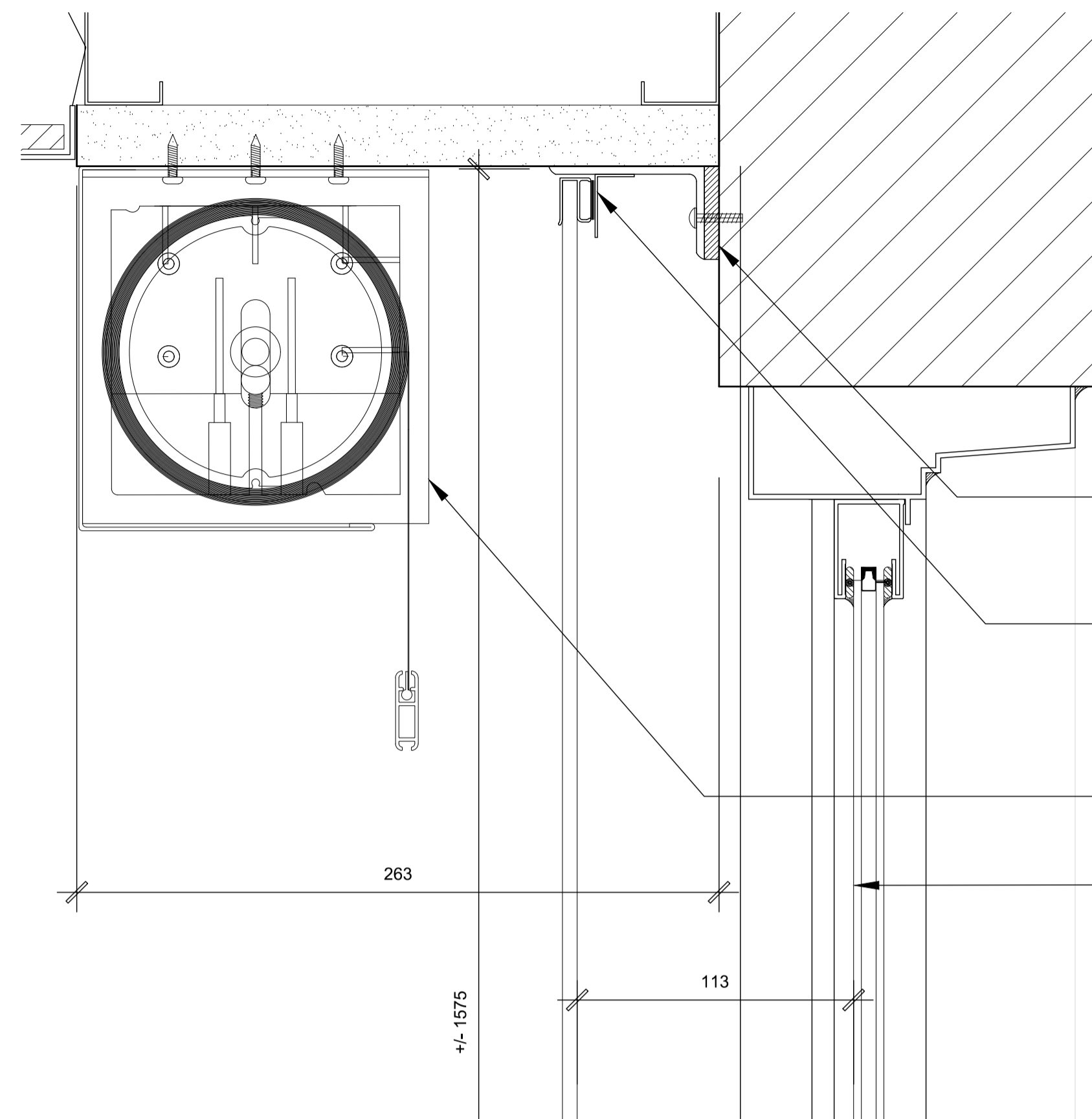
**2** TYP. ELEVATION, PARTITION CONNECTION @ PERIMETER  
A603 1:10



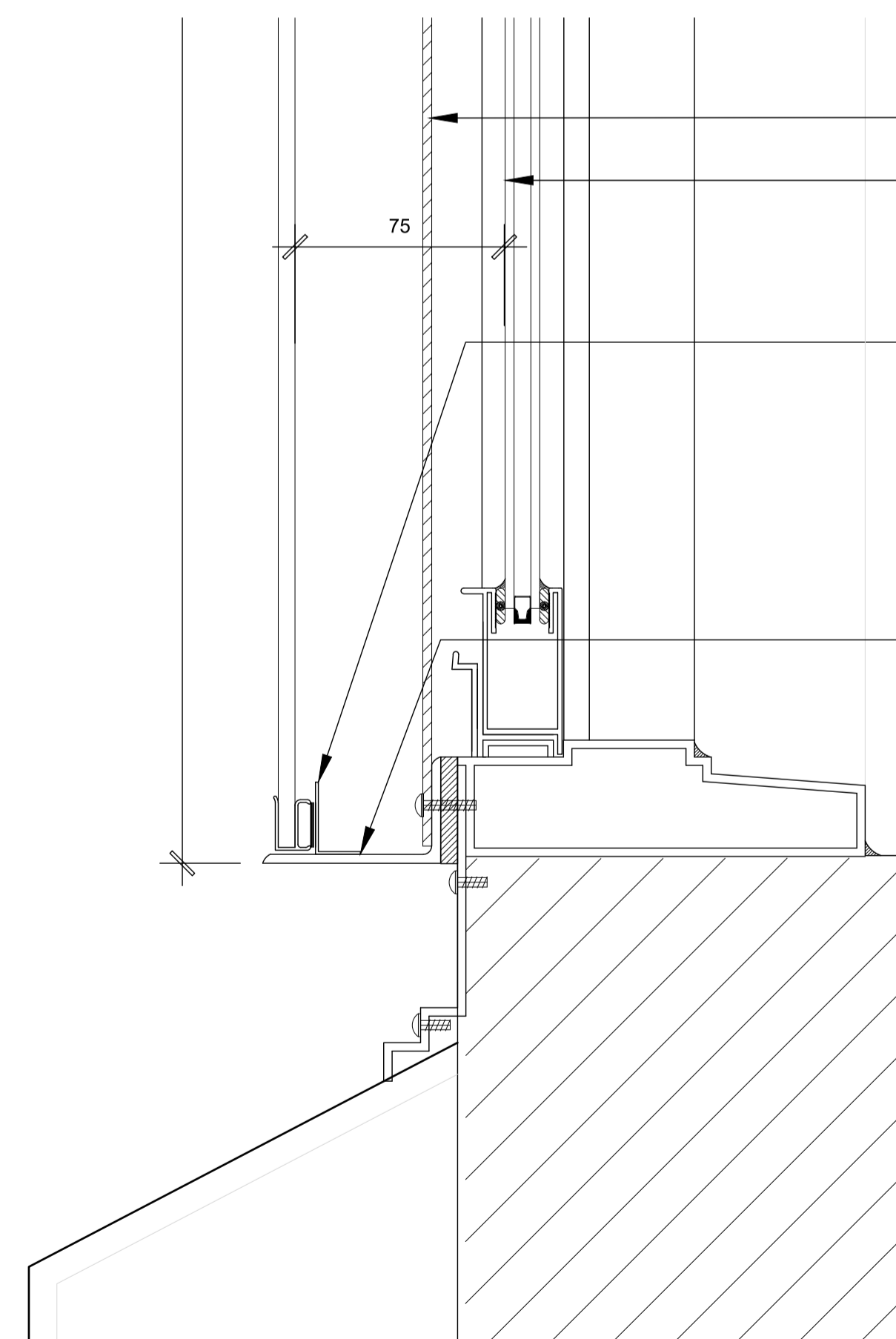
**1** TYP. SECTION, PARTITION CONNECTION @ PERIMETER  
A603 1:10



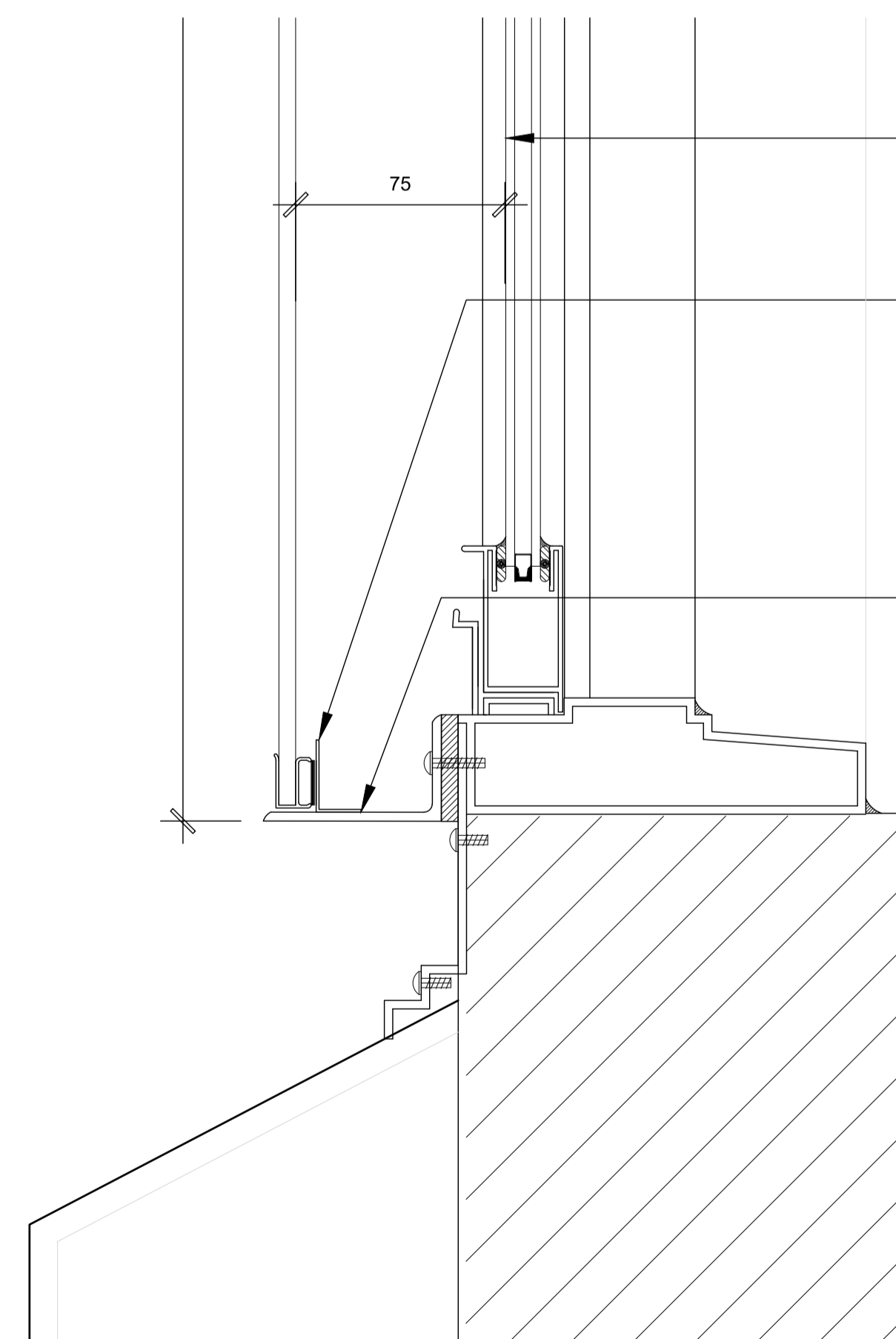
**2 WINDOW HEAD DETAIL ROOMS 211, 210, AND 208**  
A604 1:2



**2 TYPICAL WINDOW HEAD DETAIL**  
A604 1:2



**1 WINDOW SILL DETAIL ROOMS 211, 210, AND 208**  
A604 1:2



**1 TYPICAL WINDOW SILL DETAIL**  
A604 1:2

NEW STEEL ANGLE FRAME TO SUPPORT INTERIOR STORM WINDOW MECHANICALLY FIXED TO WOOD BLOCKING AND EXISTING METAL PLATES. PROVIDE AIR TIGHT SEAL AT ALL CORNERS

INSTALL NEW STC 35 RATED STORM WINDOW WITH MINIMUM 75MM CLEARANCE BETWEEN EXISTING AND NEW GLAZING.

EXISTING VERTICAL BLINDS AND TRACK TO BE REMOVED AND REPLACED WITH NEW ROLLER SHADES.

NEW REFLECTIVE SECURITY FILM ON INTERIOR FACE OF WINDOWS.

3 / 4" - 9F FLATTENED METAL MESH PANEL

NEW STEEL ANGLE FRAME TO SUPPORT INTERIOR STORM WINDOW MECHANICALLY FIXED TO WOOD BLOCKING AND EXISTING METAL PLATES. PROVIDE AIR TIGHT SEAL AT ALL CORNERS

INSTALL NEW STC 35 RATED STORM WINDOW WITH MINIMUM 75MM CLEARANCE BETWEEN EXISTING AND NEW GLAZING.

EXISTING VERTICAL BLINDS AND TRACK TO BE REMOVED AND REPLACED WITH NEW ROLLER SHADES.

NEW REFLECTIVE SECURITY FILM ON INTERIOR FACE OF WINDOWS.

3 / 4" - 9F FLATTENED METAL MESH PANEL

NEW REFLECTIVE SECURITY FILM ON INTERIOR FACE OF WINDOWS.

INSTALL NEW STC 35 RATED STORM WINDOW WITH MINIMUM 75MM CLEARANCE BETWEEN EXISTING AND NEW GLAZING.

NEW STEEL ANGLE FRAME TO SUPPORT INTERIOR STORM WINDOW MECHANICALLY FIXED TO WOOD BLOCKING AND EXISTING METAL PLATES. PROVIDE AIR TIGHT SEAL AT ALL CORNERS

NEW REFLECTIVE SECURITY FILM ON INTERIOR FACE OF WINDOWS.

INSTALL NEW STC 35 RATED STORM WINDOW WITH MINIMUM 75MM CLEARANCE BETWEEN EXISTING AND NEW GLAZING.

NEW STEEL ANGLE FRAME TO SUPPORT INTERIOR STORM WINDOW MECHANICALLY FIXED TO WOOD BLOCKING AND EXISTING METAL PLATES. PROVIDE AIR TIGHT SEAL AT ALL CORNERS



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revision		date

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project title  
titre du projet

105 CHRISTINA STREET SOUTH  
**FIT UP FOR A PUBLIC SAFETY CLIENT  
SARNIA, ONTARIO**

drawing title  
titre du dessin  
**DETAILS**

drawn by  
dessiné par MO

designed by  
conçu par MO \ JT

approved by  
approuvé par J TAYLOR

bid offer  
offre A. MENIKGAMA project manager  
administrateur de projets

project date  
date du projet 2015-12-17

project no.  
no. du projet R.073089.040  
R.073089.052

drawing no.  
dessiné no. A604



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revision	date
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dessin no. - où détail exigé
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dessin no. - où détaillé

project title  
titre du projet

105 CHRISTINA STREET SOUTH  
FIT UP FOR A PUBLIC SAFETY CLIENT  
SARNIA, ONTARIO

drawing title  
titre du dessin  
**ENLARGED PLANS**

drawn by  
dessiné par MO

designed by  
conçue par MO \ JT

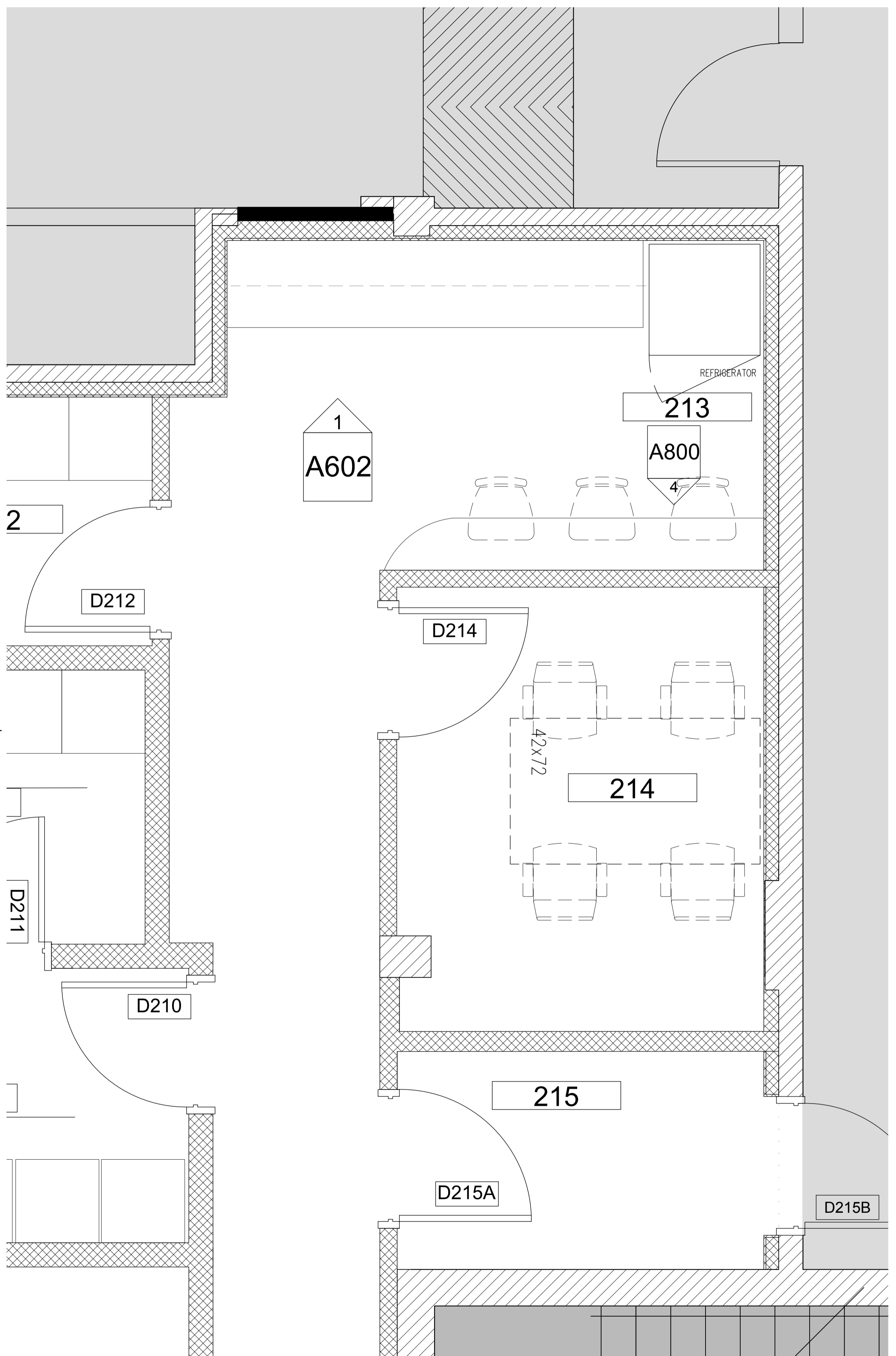
approved by  
approuvé par J TAYLOR

bid  
offre A. MENIKGAMA project manager  
administrateur de projets

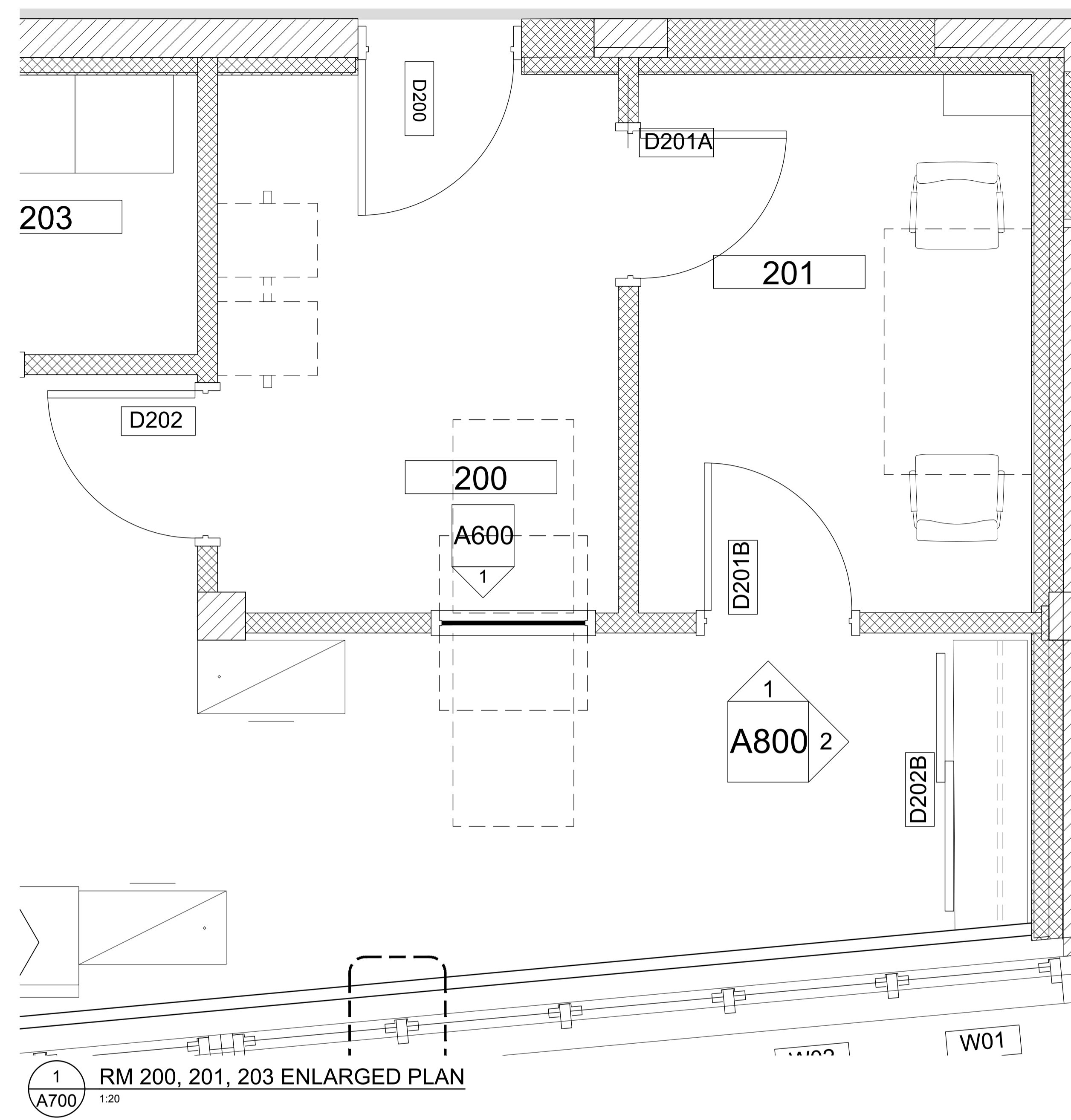
project date  
date du projet 2015-12-17

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no. du projet R.073089.040  
R.073089.052

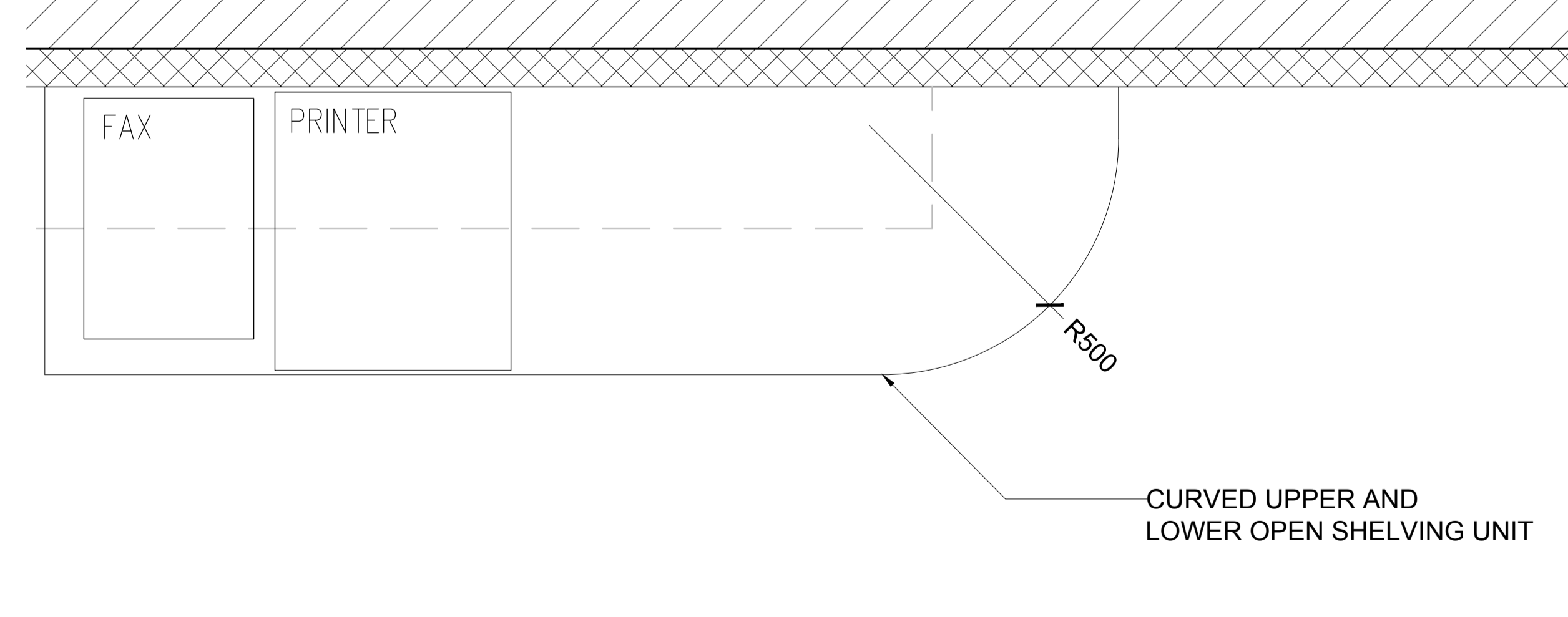
drawing no.  
dessiné no. A700



2 RM 209,210,211,212,213,214,215 ENLARGED PLAN  
A700 1:20

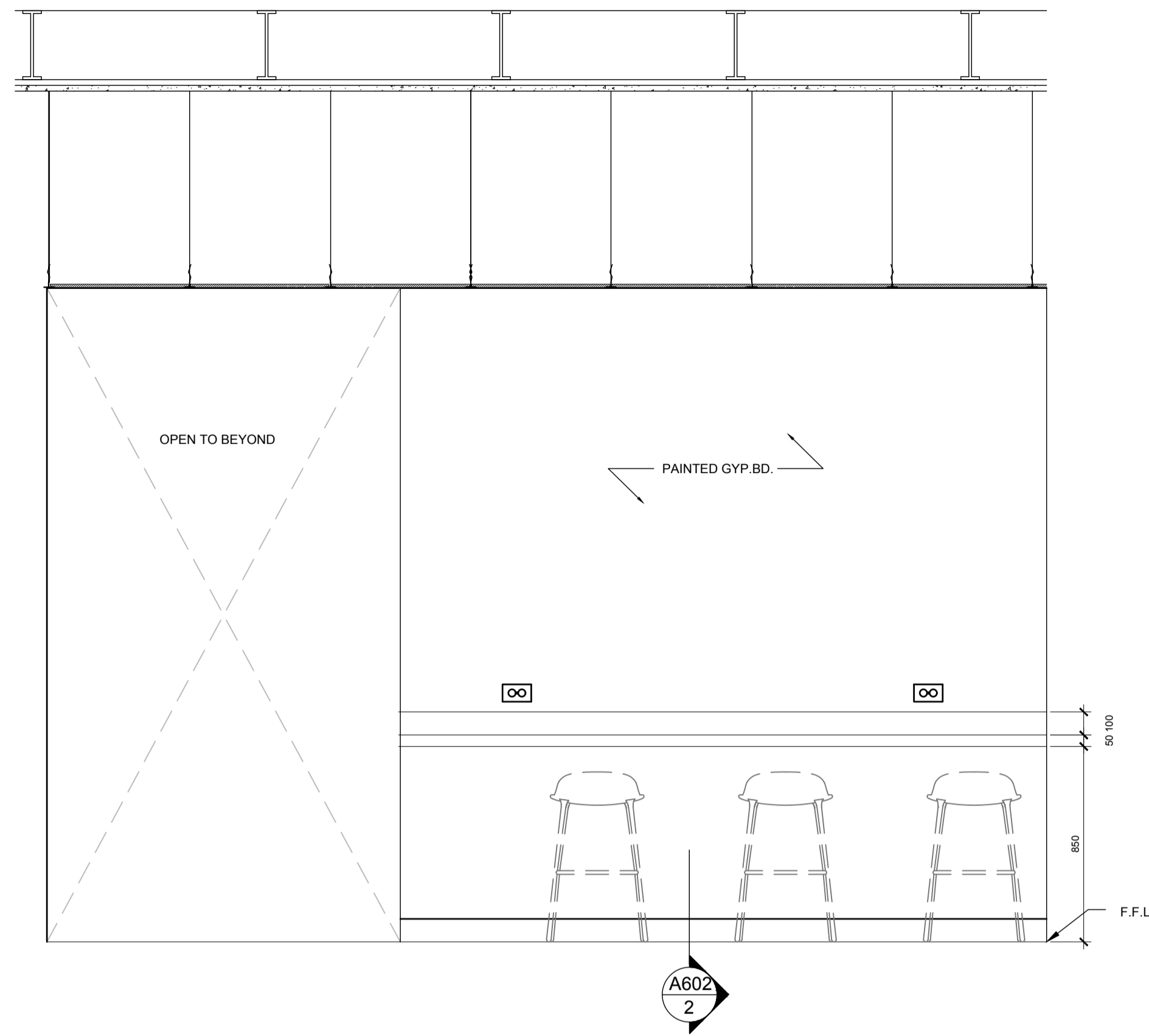


1 RM 200, 201, 203 ENLARGED PLAN  
A700 1:20

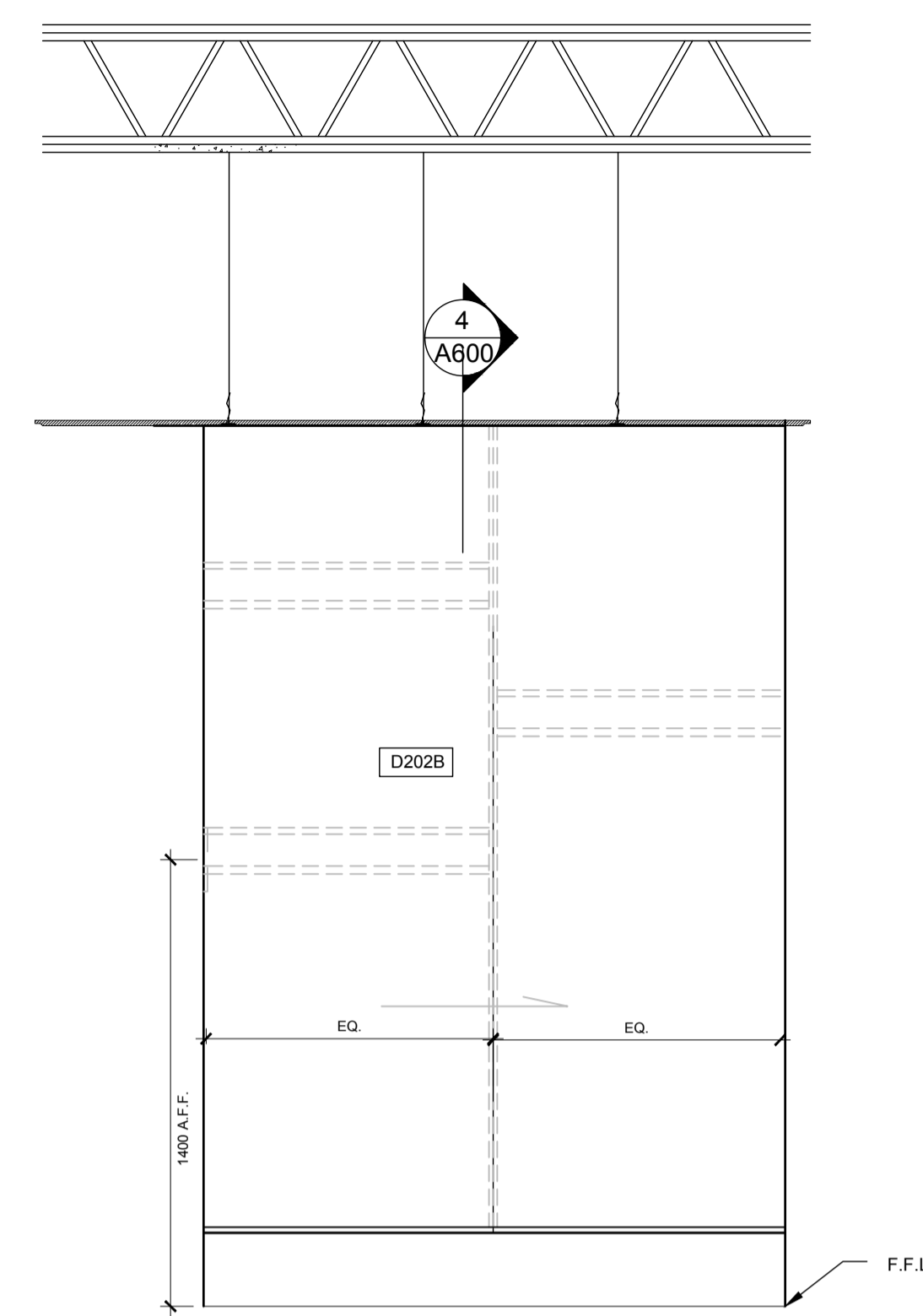


3 RM 202 BUSINESS CENTRE ENLARGED PLAN  
A700 1:20

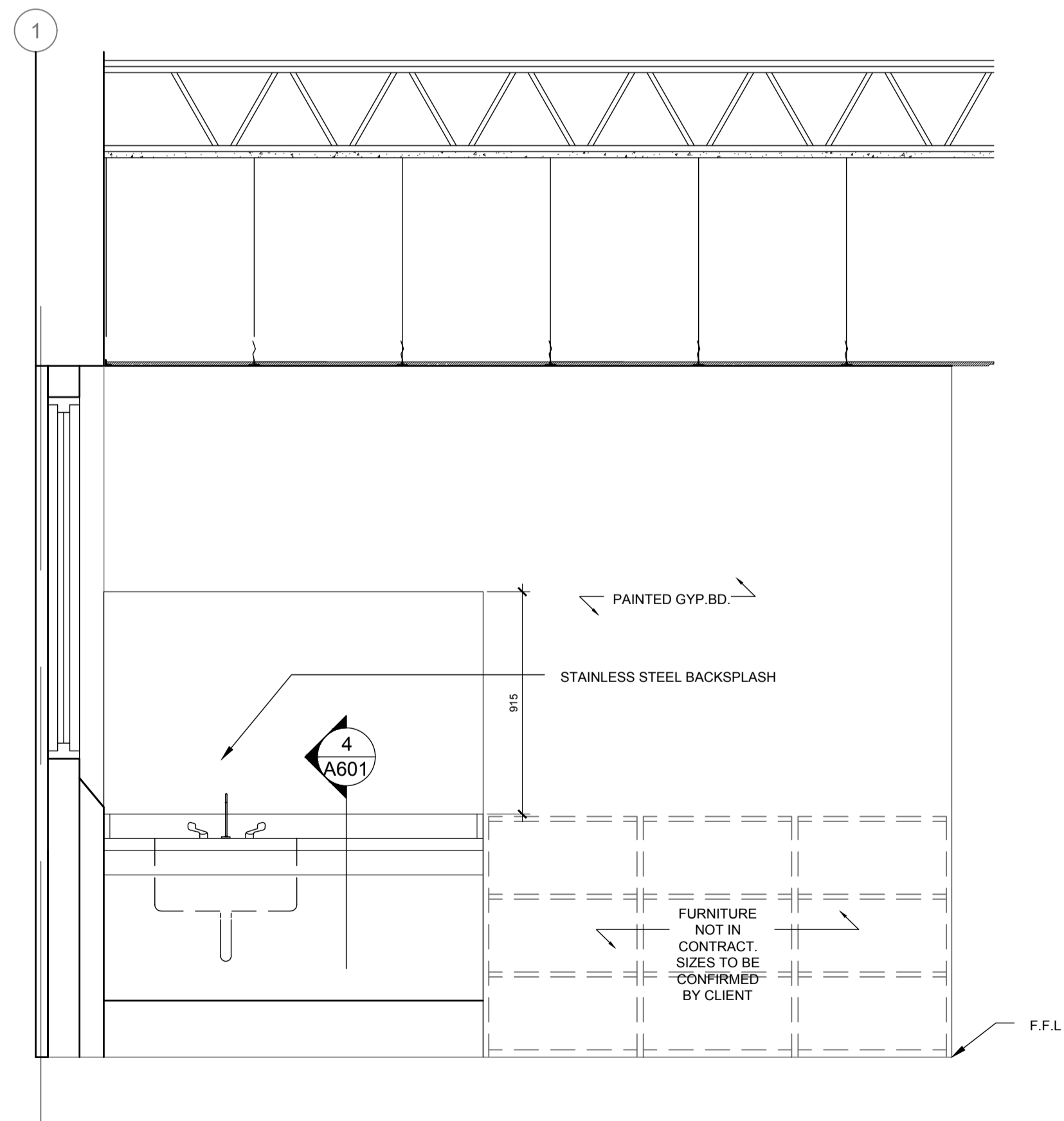
CURVED UPPER AND  
LOWER OPEN SHELVING UNIT



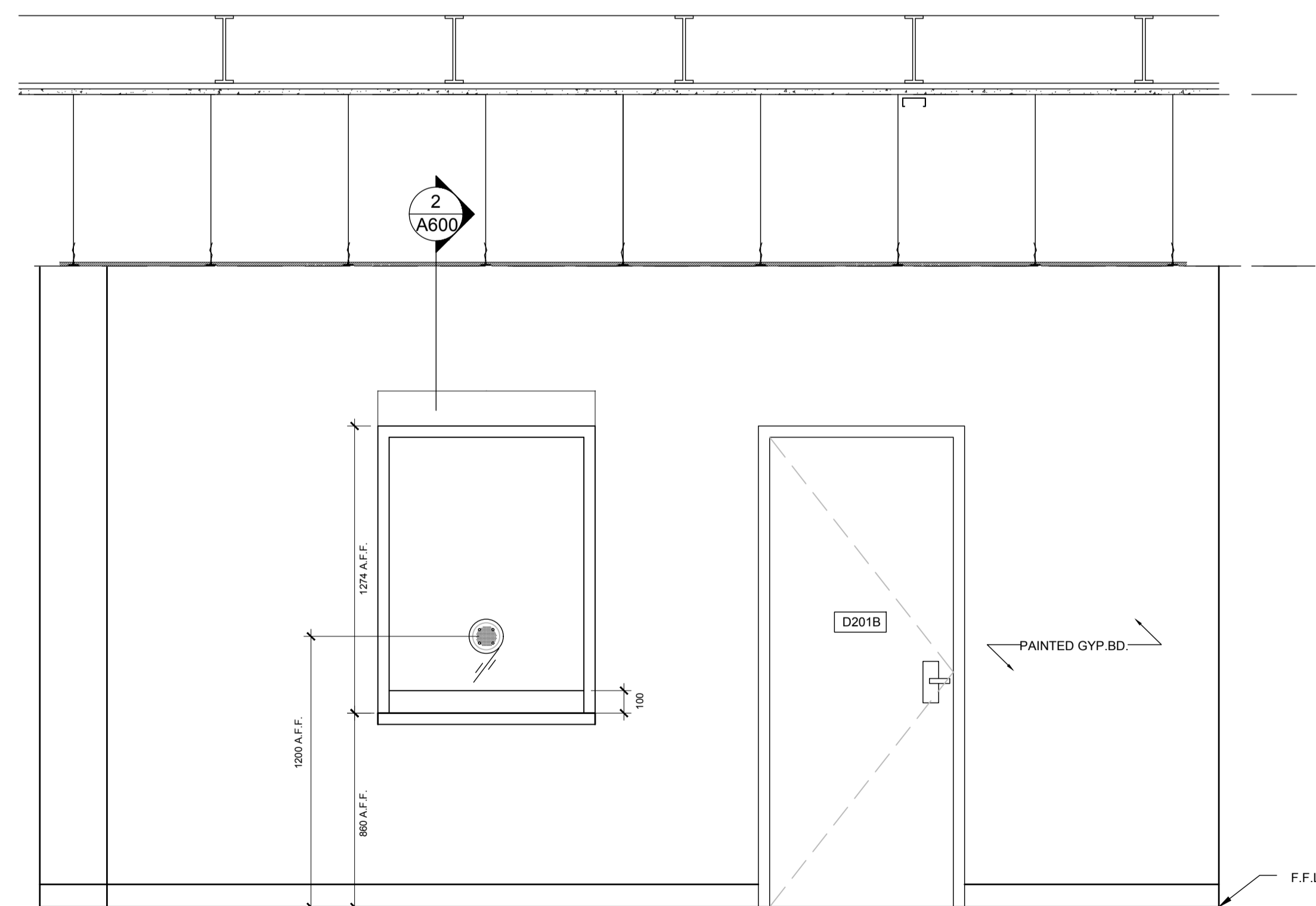
4 RM 213 COUNTER ELEVATION  
A800 1:20



2 RM 202 CLOSET ELEVATION  
A800 1:20



3 RM 210 COUNTER ELEVATION  
A800 1:20



1 RM 202 COUNTER ELEVATION  
A800 1:20



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project title  
titre du projet

105 CHRISTINA STREET SOUTH

FIT UP FOR A PUBLIC SAFETY CLIENT  
SARNIA, ONTARIO

drawing title  
titre du dessin  
INTERIOR ELEVATIONS

drawn by  
dessine par CHU

designed by  
conc par CHU \ JT

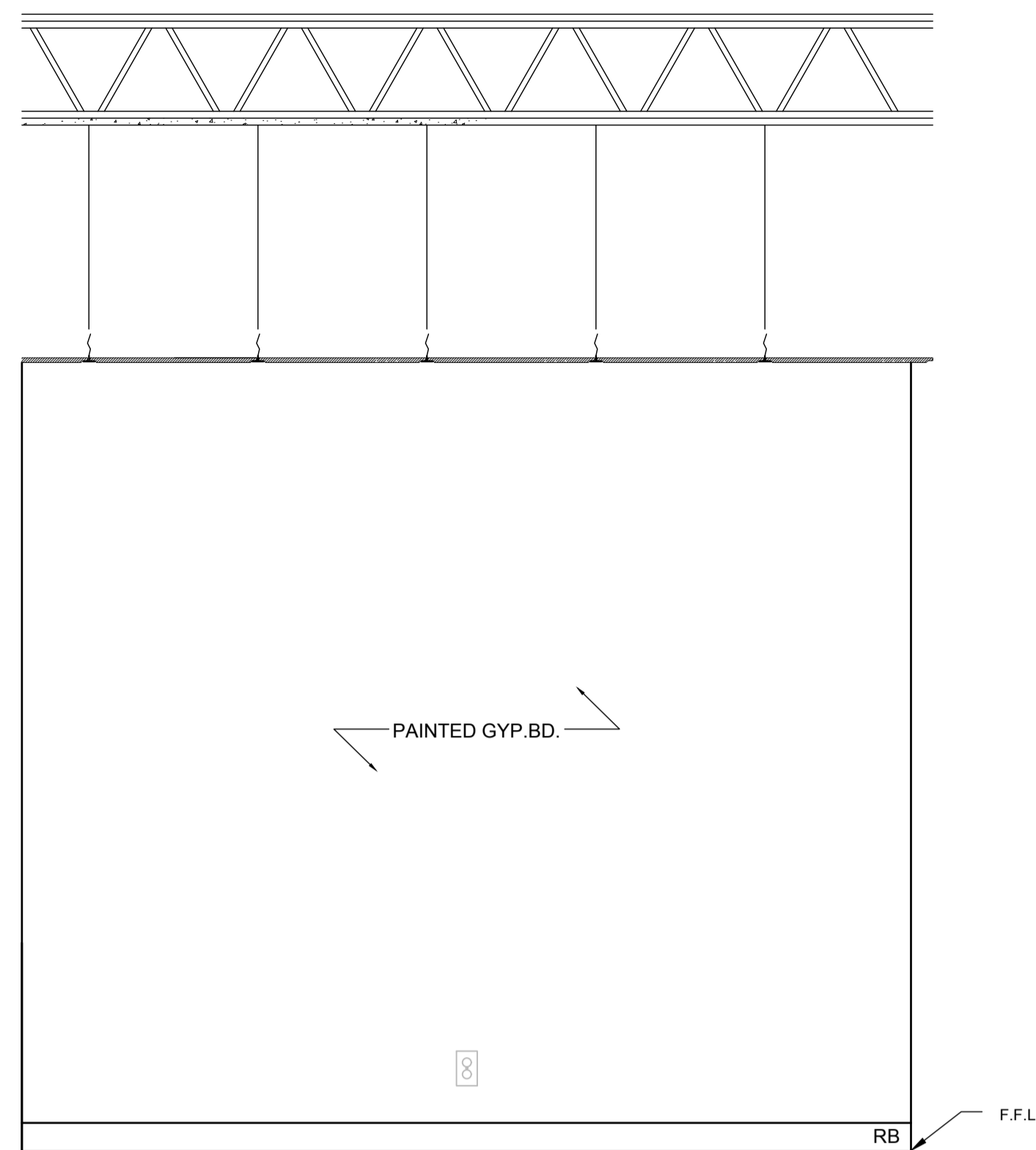
approved by  
approuve par J TAYLOR

bid  
offre A. MENIKGAMA project manager  
administrateur de projets

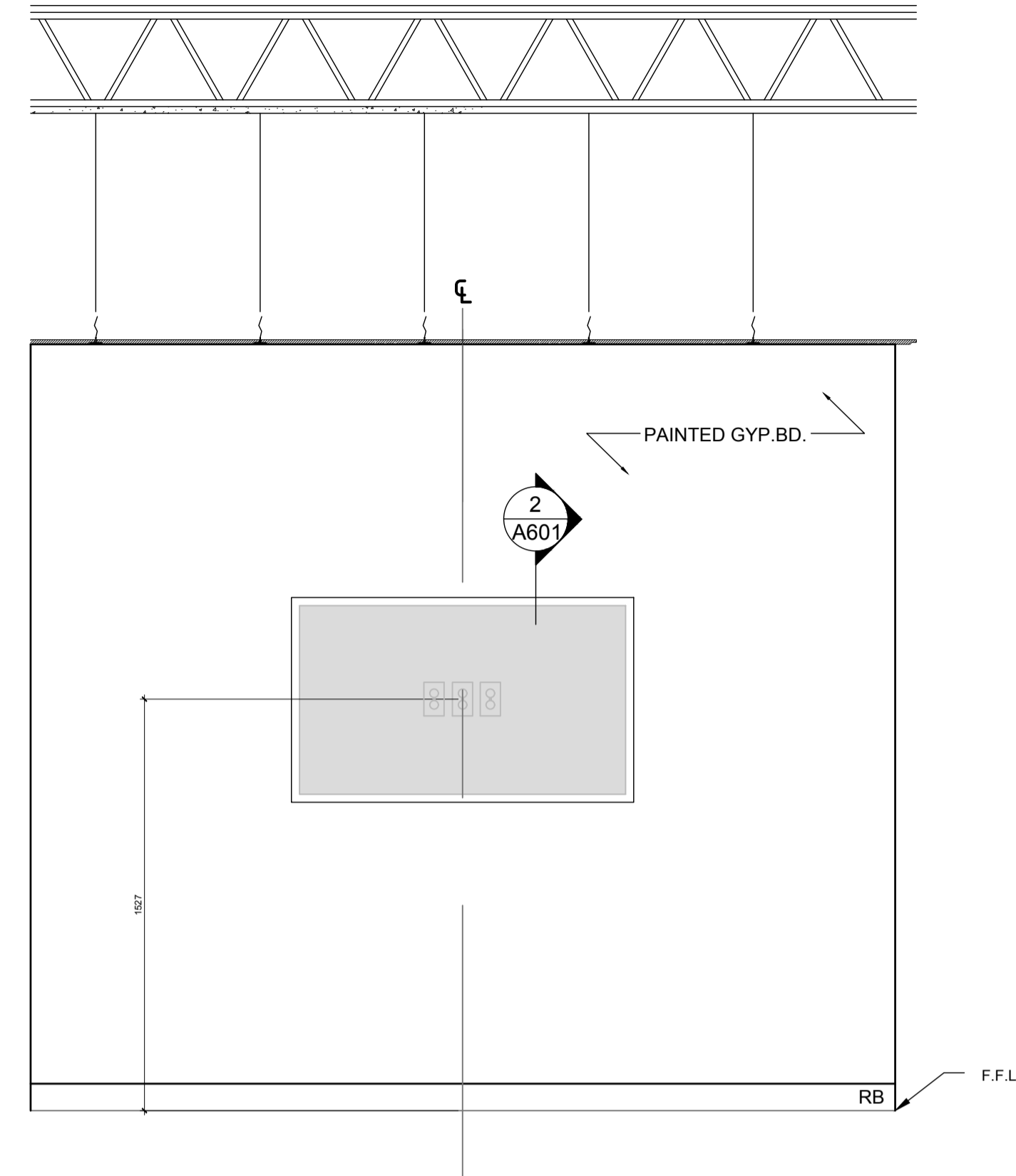
project date  
date du projet 2015-12-17

project no.  
no. du projet R.073089.040  
R.073089.052

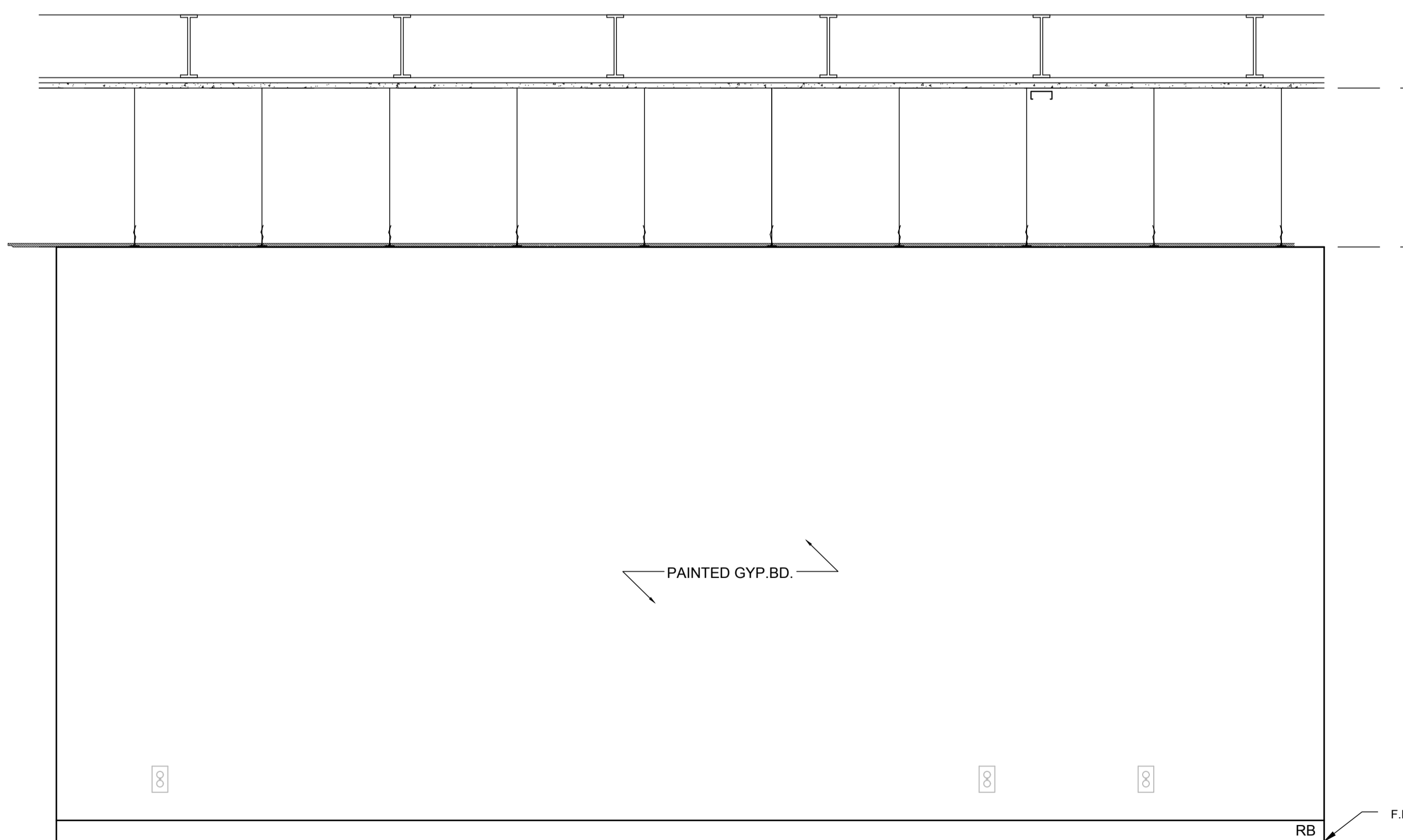
drawing no.  
dessine no. A800



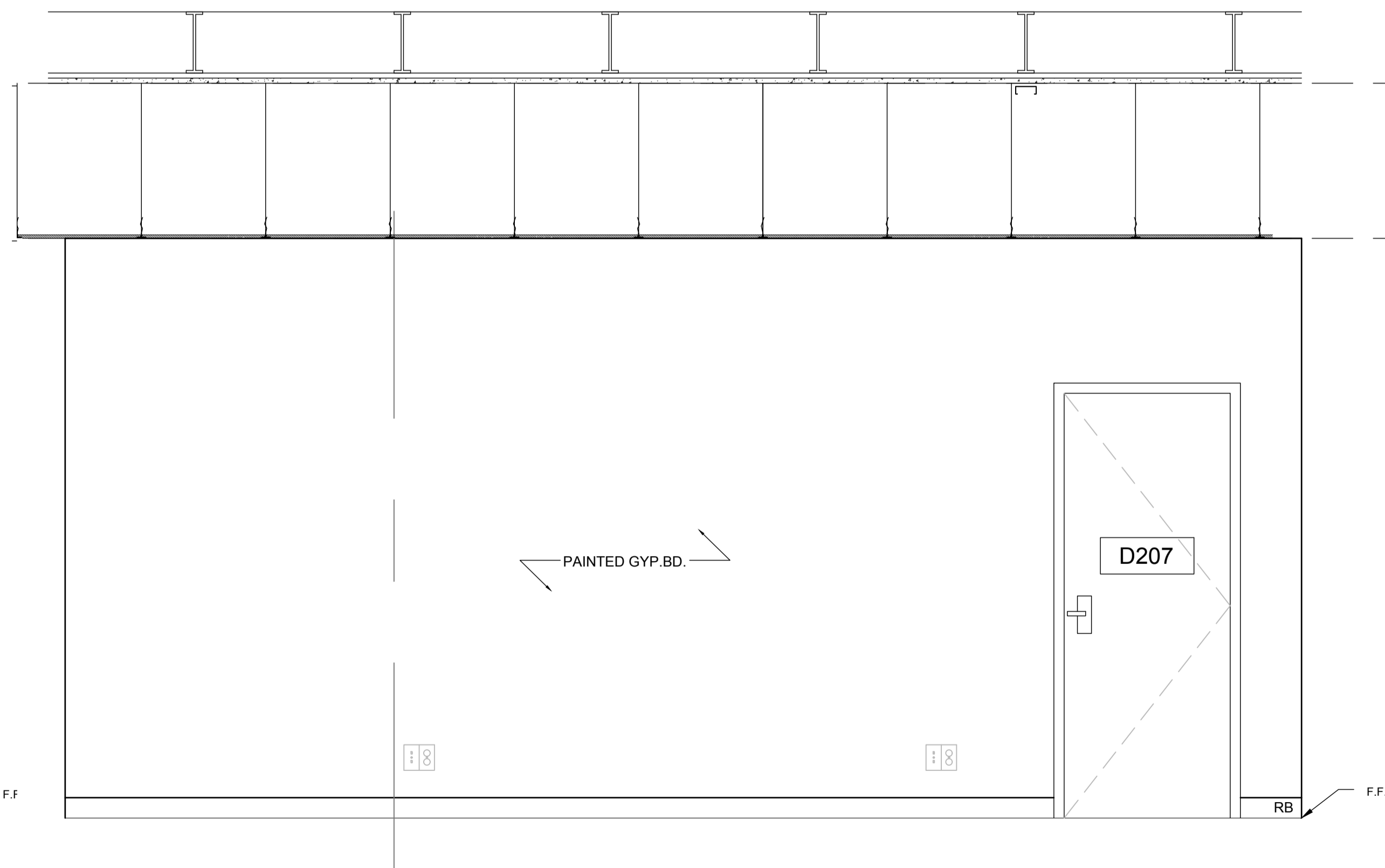
4 RM 207 ELEVATION  
A801 1:20



2 RM 207 TV WALL ELEVATION  
A801 1:20



3 RM 207 ELEVATION  
A801 1:20



1 RM 207 ENTRANCE ELEVATION  
A801 1:20



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dessin no. - où détail exigé
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dessin no. - où détaillé

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titre du projet

105 CHRISTINA STREET SOUTH  
FIT UP FOR A PUBLIC SAFETY CLIENT  
SARNIA, ONTARIO

drawing title  
titre du dessin  
INTERIOR ELEVATIONS

drawn by  
dessiné par CHU

designed by  
conc par CHU\ JT

approved by  
approuvé par J TAYLOR

bid  
offre A. MENIKGAMA project manager  
administrateur de projets

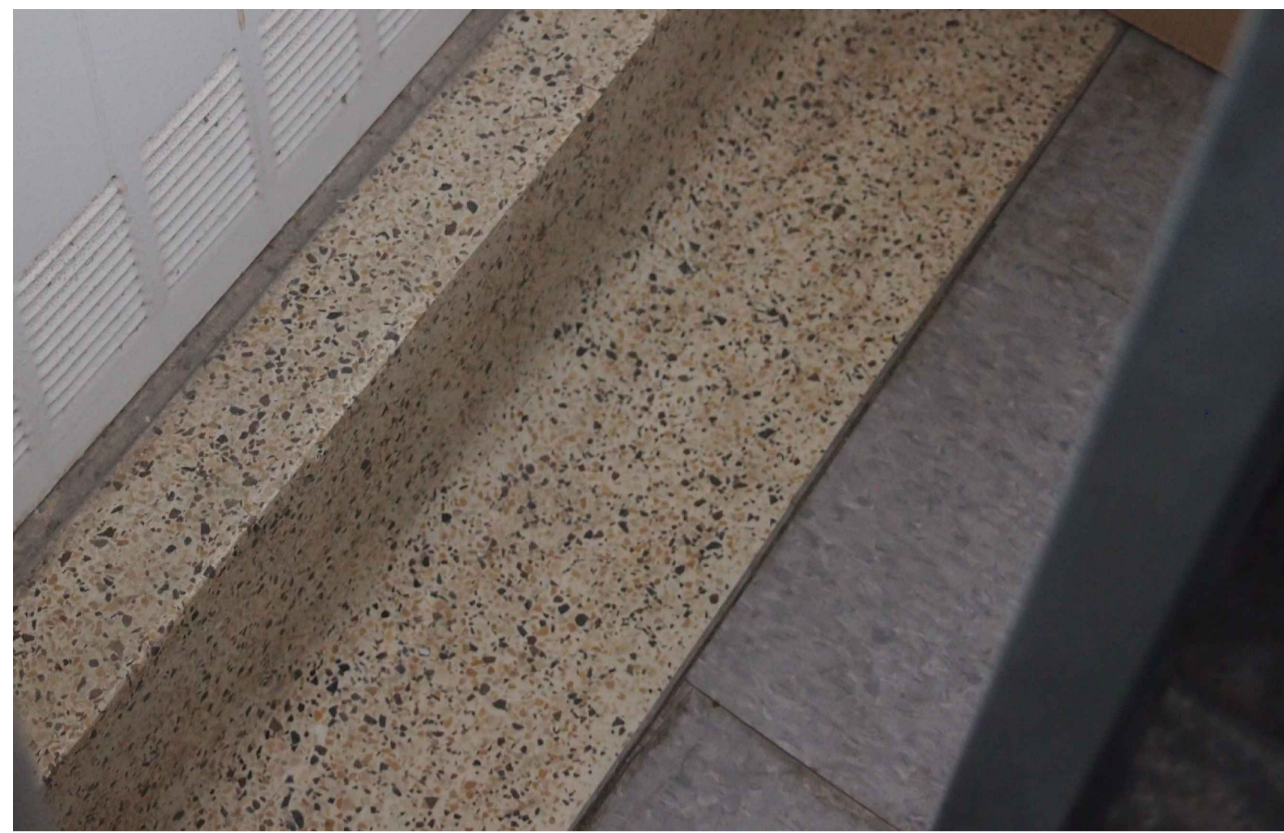
project date  
date du projet 2015-12-17

project no.  
no. du projet R.073089.040  
R.073089.052

drawing no.  
dessiné no. A801



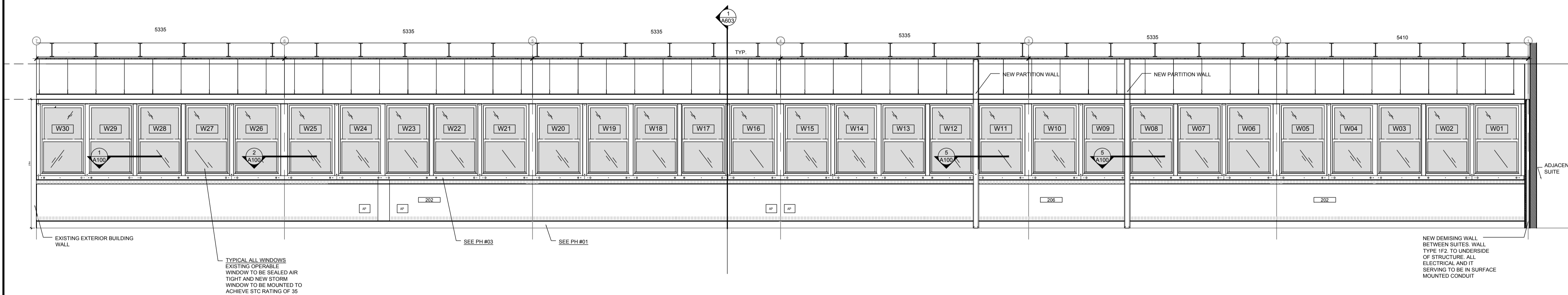
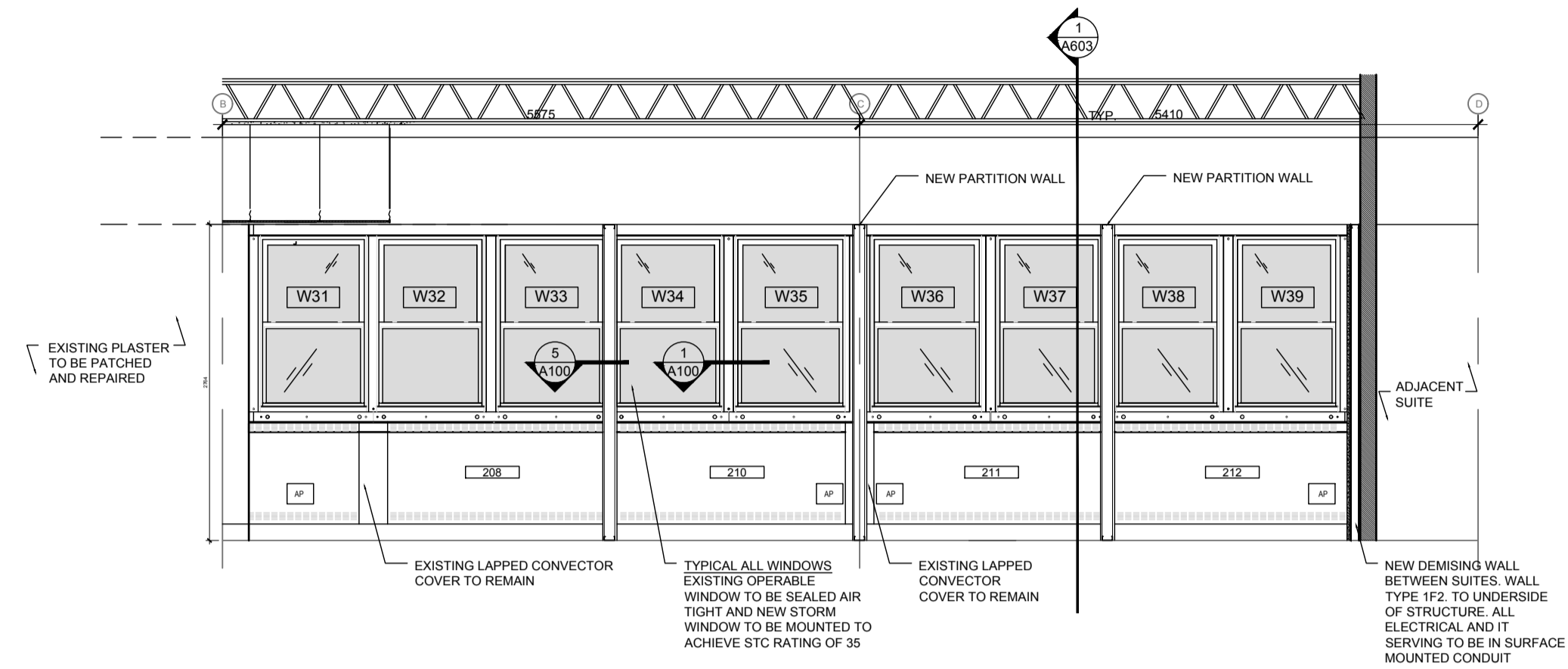
PH #03 DETAIL VIEW OF EXISTING WINDOW SILL  
NTS



PH #01 EXISTING COVE TERRAZZO BASE  
NTS



PH #02 OVERVIEW OF EXISTING WINDOWS  
NTS



LEGEND - WINDOW ELEVATIONS

	NEW ONE-WAY MIRRORRED REFLECTIVE SECURITY FILM TO BE MOUNTED ON INTERIOR FACE OF WINDOWS
	EXISTING ACCESS PANEL TO BE MAINTAINED



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project title  
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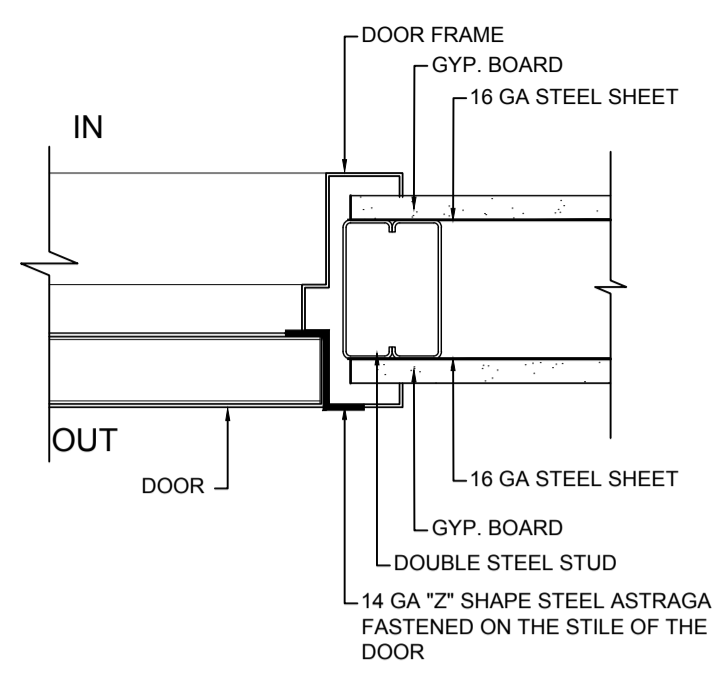
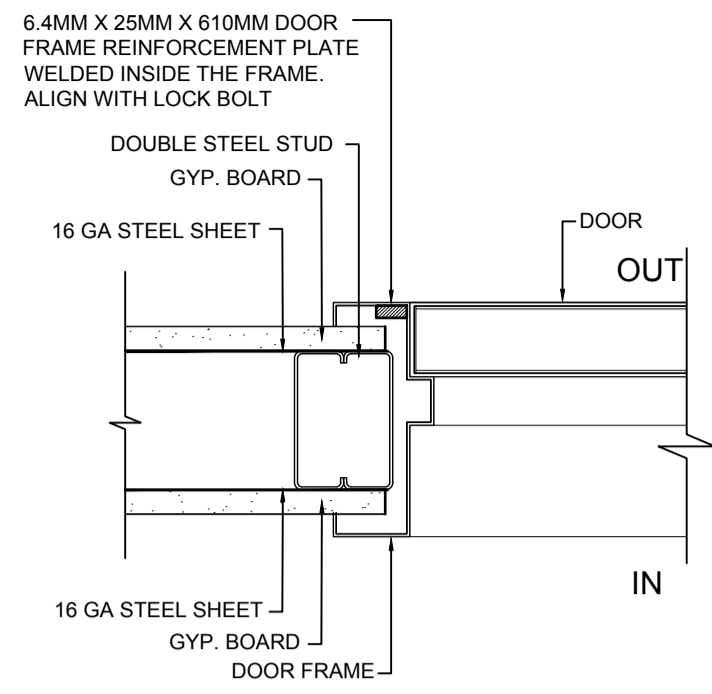
105 CHRISTINA STREET SOUTH

FIT UP FOR A PUBLIC SAFETY CLIENT  
SARNIA, ONTARIO

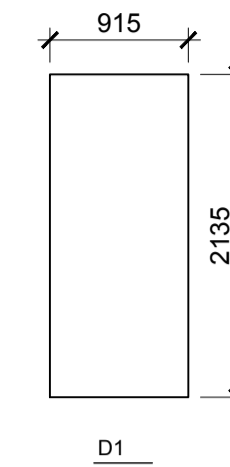
drawing title  
titre du dessin

INTERIOR ELEVATIONS

drawn by dessiné par	CHU	
designed by conçu par	CHU \ JT	
approved by approuvé par	J TAYLOR	
bid offre	A. MENIKGAMA	project manager administrateur de projets
project date date du projet	2015-12-17	
project no. no. du projet	R.073089.040 R.073089.052	
drawing no. dessiné no.	A802	

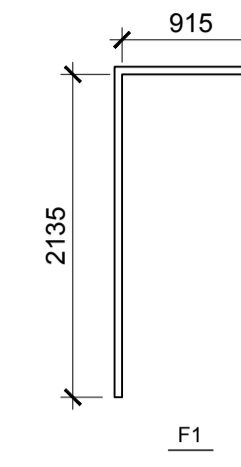


DOOR TYPES



STANDARD HOLLOW CORE, METAL 45MM THICK WITH 1.2MM CRS. REFER TO DOOR SCHEDULE FOR FIRE AND STC RATINGS

FRAME TYPES



3 FRAME REINFORCEMENT: REGULAR A900 1:5

2 FRAME REINFORCEMENT: REVERSE A900 1:5

1 DOOR AND TYPES A900 1:50



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Door and Lock Schedule

Table with columns: Door No., Door and Frame, STC Rating, Door, Frame, Fire Rating, Push Side, Pull Side, Door Height, Door Width, Comments, Lock Type and Part No., Card Reader Alarm, Door and Hardware Comments, PTSS Reference Spec. Documents. Rows include items 200 through 215B.

Submission schedule table with columns: Item No., Description, Date. Includes items 01 to 05.

Do not scale drawings. Verify all dimensions and conditions on site and immediately notify the Departmental Representative of all discrepancies.

Detail No. drawing no. - where detail required dessin no. - où détail exigé

project title / titre du projet

105 CHRISTINA STREET SOUTH FIT UP FOR A PUBLIC SAFETY CLIENT SARNIA, ONTARIO

drawing title / titre du dessin DOOR TYPES AND SCHEDULES

drawn by / dessiné par MO

designed by / conçu par MO \ JT

approved by / approuvé par J TAYLOR

bid / offre A. MENIKGAMA project manager / administrateur de projets

project date / date du projet 2015-12-17

project no. / no. du projet R.073089.040 R.073089.052

drawing no. / dessiné no. A900

4 DOOR AND HARDWARE SCHEDULE A900



**Room Finish Schedule**

Room No.	Walls				Floor				Ceiling		
	North		East		South		West		Base	MATERIAL	
	MATERIAL	FINISH	MATERIAL	FINISH	MATERIAL	FINISH	MATERIAL	FINISH			
200	GWB	PT1	GWB	PT1	GWB	PT1	GWB	PT1	RB	CPT1	GWB
201	GWB	PT1	GWB	PT1	GWB	PT1	GWB	PT1	RB	CPT1	ACT
202	GWB	PT1	GWB	PT1	GWB	PT1	GWB	PT1	RB	CPT1	ACT
203	GWB	PT1	GWB	PT1	GWB	PT1	GWB	PT1	RB	CPT1	ACT
204	GWB	PT1	GWB	PT1	GWB	PT1	GWB	PT1	RB	CPT1	GWB
205	GWB	PT1	GWB	PT1	GWB	PT1	GWB	PT1	RB	CPT1	ACT
206	EX	PT3	GWB	PT1	GWB	PT1	GWB	PT1	RB	CPT1	ACT
207	GWB	PT1	GWB	PT1	GWB	PT2	GWB	PT2	RB	CPT1	ACT
208	GWB	PT1	GWB	PT1	GWB	PT1	GWB	PT1	RB	ESD	ACT
209	GWB	PT1	GWB	PT1	GWB	PT1	GWB	PT1	RB	ESD	ACT
210	GWB	PT1	GWB	PT1	GWB	PT1	EX	PT3	RB	CON	GWB
211	GWB	PT1	GWB	PT1	GWB	PT1	EX	PT3	RB	CON	GWB
212	GWB	PT1	GWB	PT1	GWB	PT1	EX	PT3	RB	CPT1	ACT
213	GWB	PT2	GWB	PT2	GWB	WT1	GWB	PT1	RB	VCT	GWB
214	GWB	PT1	GWB	PT1	GWB	PT1	GWB	PT1	RB	CPT1	ACT
215	GWB	PT1	GWB	PT1	GWB	PT1	GWB	PT1	RB	CPT1	ACT
All existing column enclosures, all radiator covers, all window surrounds and surfaces to remain and to be painted are to be painted with three coats; All metal surfaces to have paint applied that is suitable for metal											

**Finish Legend**

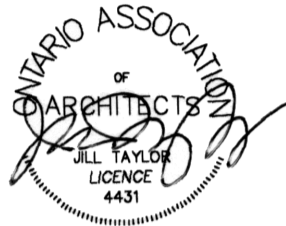
PT1	General Paint	TBD
PT2	Accent Colour Paint	TBD
PT3	Convactor Cover Paint	TBD
WT1	Wall Tile	TBD
CPT1	Carpet Tile	TBD
VCT	Vinyl Flooring	TBD
ESD	Electro Static Dissipating (ESD) tile system	The electro static dissipating tile system must meet ANSI/ESD S20.20 and ANSI/ESD S7.1-2005 standards. The minimum standard of acceptance for static dissipating tile system is 3M 8400 Series ESD floor tile or equivalent. Flooring to be grounded.

1 ROOM FINISH SCHEDULE  
A901

Window Schedule		
Window No.	Window Type	Window Finish
W01	Fixed (Top)/ Movable (Bottom)	Reflective Security Film applied to Interior
W02	Fixed (Top)/ Movable (Bottom)	Reflective Security Film applied to Interior
W03	Fixed (Top)/ Movable (Bottom)	Reflective Security Film applied to Interior
W04	Fixed (Top)/ Movable (Bottom)	Reflective Security Film applied to Interior
W05	Fixed (Top)/ Movable (Bottom)	Reflective Security Film applied to Interior
W06	Fixed (Top)/ Movable (Bottom)	Reflective Security Film applied to Interior
W07	Fixed (Top)/ Movable (Bottom)	Reflective Security Film applied to Interior
W08	Fixed (Top)/ Movable (Bottom)	Reflective Security Film applied to Interior
W09	Fixed (Top)/ Movable (Bottom)	Reflective Security Film applied to Interior
W10	Fixed (Top)/ Movable (Bottom)	Reflective Security Film applied to Interior
W11	Fixed (Top)/ Movable (Bottom)	Reflective Security Film applied to Interior
W12	Fixed (Top)/ Movable (Bottom)	Reflective Security Film applied to Interior
W13	Fixed (Top)/ Movable (Bottom)	Reflective Security Film applied to Interior
W14	Fixed (Top)/ Movable (Bottom)	Reflective Security Film applied to Interior
W15	Fixed (Top)/ Movable (Bottom)	Reflective Security Film applied to Interior
W16	Fixed (Top)/ Movable (Bottom)	Reflective Security Film applied to Interior
W17	Fixed (Top)/ Movable (Bottom)	Reflective Security Film applied to Interior
W18	Fixed (Top)/ Movable (Bottom)	Reflective Security Film applied to Interior

W19	Fixed (Top)/ Movable (Bottom)	Reflective Security Film applied to Interior
W20	Fixed (Top)/ Movable (Bottom)	Reflective Security Film applied to Interior
W21	Fixed (Top)/ Movable (Bottom)	Reflective Security Film applied to Interior
W22	Fixed (Top)/ Movable (Bottom)	Reflective Security Film applied to Interior
W23	Fixed (Top)/ Movable (Bottom)	Reflective Security Film applied to Interior
W24	Fixed (Top)/ Movable (Bottom)	Reflective Security Film applied to Interior
W25	Fixed (Top)/ Movable (Bottom)	Reflective Security Film applied to Interior
W26	Fixed (Top)/ Movable (Bottom)	Reflective Security Film applied to Interior
W27	Fixed (Top)/ Movable (Bottom)	Reflective Security Film applied to Interior
W28	Fixed (Top)/ Movable (Bottom)	Reflective Security Film applied to Interior
W29	Fixed (Top)/ Movable (Bottom)	Reflective Security Film applied to Interior
W30	Fixed (Top)/ Movable (Bottom)	Reflective Security Film applied to Interior
W31	Fixed (Top)/ Movable (Bottom)	Reflective Security Film applied to Interior
W32	Fixed (Top)/ Movable (Bottom)	Reflective Security Film applied to Interior
W33	Fixed (Top)/ Movable (Bottom)	Reflective Security Film applied to Interior
W34	Fixed (Top)/ Movable (Bottom)	Reflective Security Film applied to Interior
W35	Fixed (Top)/ Movable (Bottom)	Reflective Security Film applied to Interior
W36	Fixed (Top)/ Movable (Bottom)	Reflective Security Film applied to Interior
W37	Fixed (Top)/ Movable (Bottom)	Reflective Security Film applied to Interior
W38	Fixed (Top)/ Movable (Bottom)	Reflective Security Film applied to Interior
W39	Fixed (Top)/ Movable (Bottom)	Reflective Security Film applied to Interior

2 WINDOW SCHEDULE  
A901



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05	SUBMITTED FOR TENDER	2016/10/07
04	SUBMITTED FOR 99% CLIENT REVIEW	2016/09/02
03	SUBMITTED FOR 66% CLIENT REVIEW	2016/07/15
02	SUBMITTED FOR 66% CLIENT REVIEW	2016/03/30
01	SUBMITTED FOR PRELIMINARY REVIEW	2016/03/24
revision		date

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A	Detail No.
B	drawing no. - where detail required
C	drawing no. - where detailed

project title  
titre du projet

105 CHRISTINA STREET SOUTH

**FIT UP FOR A PUBLIC SAFETY CLIENT SARNIA, ONTARIO**

drawing title  
titre du dessin  
**SCHEDULES**

drawn by  
dessiné par MO

designed by  
conc par MO \ JT

approved by  
approuvé par J TAYLOR

bid  
offre A. MENIKGAMA project manager  
administrateur de projets

project date  
date du projet 2015-12-17

project no.  
no. du projet R.073089.040  
R.073089.052

drawing no.  
dessiné no. A901



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03	SUBMITTED FOR 66% CLIENT REVIEW	2017/07/15
02	SUBMITTED FOR 66% CLIENT REVIEW	2016/03/30
01	SUBMITTED FOR 66% CLIENT REVIEW	2016/01/20
revision		date

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A	Detail No.
B	No. du détail
C	drawing no. - where detail required dessin no. - où détail exigé
	drawing no. - where detailed dessin no. - où détaillé

project title  
titre du projet

Ontario

105 CRISTINA STREET SOUTH  
FIT UP FOR A PUBLIC SAFETY CLIENT SARNIA, ONTARIO

drawing title  
titre du dessin  
**LEGEND, SCHEDULES & DRAWING LIST MECHANICAL**

drawn by  
dessiné par AA

designed by  
conçu par AA/HMB

approved by  
approuvé par HMB

bid offer  
offre A.MENIKGAMA project manager  
administrateur de projets

project date  
date du projet 2015-12-17

project no.  
no. du projet R.073089.040  
R.073089.052

drawing no.  
dessiné no. M-01

**GENERAL NOTES**

- MECHANICAL SERVICES SHOWN (LIGHT LINEWEIGHT) ARE EXISTING TO REMAIN
- ALL SYMBOLS IN LEGEND AND EQUIPMENT LEGEND MAY NOT BE PRESENT ON DRAWINGS.
- MAXIMUM LENGTH OF FLEXIBLE DUCTWORK IS 1500mm (5'-0"), EXCEPT WHERE INDICATED OTHERWISE.
- FOR ALL DUCTWORK ON THIS PROJECT - BALANCING DAMPERS ARE REQUIRED AT ALL DUCTWORK BRANCH CONNECTIONS. BALANCING DAMPERS SHOWN INDICATE PREFERRED LOCATIONS ONLY.

**DRAWING LIST**

- M-01 LEGEND, SCHEDULES & DRAWING LIST
- M-02 2ND FLOOR - HVAC DEMOLITION & NEW LAYOUT
- M-03 2ND FLOOR - PLUMBING/DRAINAGE NEW LAYOUT & ROOF PLAN
- M-04 DETAILS AND SCHEMATIC
- M-05 CONTROL SCHEMATIC

**GRILLE & DIFFUSER**

REF. LETTER	APPLICATION	MANUFACTURERS DATA		FINISH	REMARKS
		SELECTION MFG.	MODEL DESCRIPTION		
A	SQUARE CONE DIFFUSER 600x600	E.H. PRICE	SCD/31	B12	200mmØ INLET SIZE
B	SQUARE CONE DIFFUSER 300x300	E.H. PRICE	SCD/31	B12	150mmØ INLET SIZE
C	EGG CRATE RETURN C/W BORDER	E.H. PRICE	600x150/80/TB/A	B12	TYPE 'A' C/W 'T' MOUNTING FRAME FOR GYPSUM BD. TYPE 'B' FOR T-BAR APPLICATION
D	EXHAUST GRILLE	E.H. PRICE	600x125 TYPE C80	B12	COMPLETE WITH FRAME SUITABLE FOR SURFACE MOUNT APPLICATION

**EXHAUST FAN**

No.	MODEL No.	LOCATION	PERFORMANCE DATA			CONSTRUCTION DATA		ELECTRICAL			REMARKS
			CAPACITY (L/s)	TOTAL STATIC PRESSURE (Pa)	R.P.M.	TYPE	AMPS	1PH. 575 V.	1PH. 115 V.		
EF-1	GREENHECK G-060-VG/D	REFER TO FLOOR PLAN (MULTIPLE)	71	37.5	1550	DOWNBLAST CENTRIFUGAL ROOF MID. EXHAUST FAN	-	-	124	- LIGHT SWITCH CONTROL - STANDARD WIRE MESH - 300mm CURB EXTENSION - STANDARD VIBRATION ISOLATOR - DUCTWORK SHALL BE C/W 1" INTERNAL ACOUSTIC INSULATION. - DUCTWORK SHALL BE C/W 1"	
EF-2	GREENHECK G-060-VG/G	ROOM 213	47	37.5	1300	DOWNBLAST CENTRIFUGAL ROOF MID. EXHAUST FAN	-	-	124		
EF-3	GREENHECK G-065-VG/D	ROOM 210	94	37.5	1550	DOWNBLAST CENTRIFUGAL ROOF MID. EXHAUST FAN	-	-	124		

**ROOFTOP UNIT SCHEDULE**

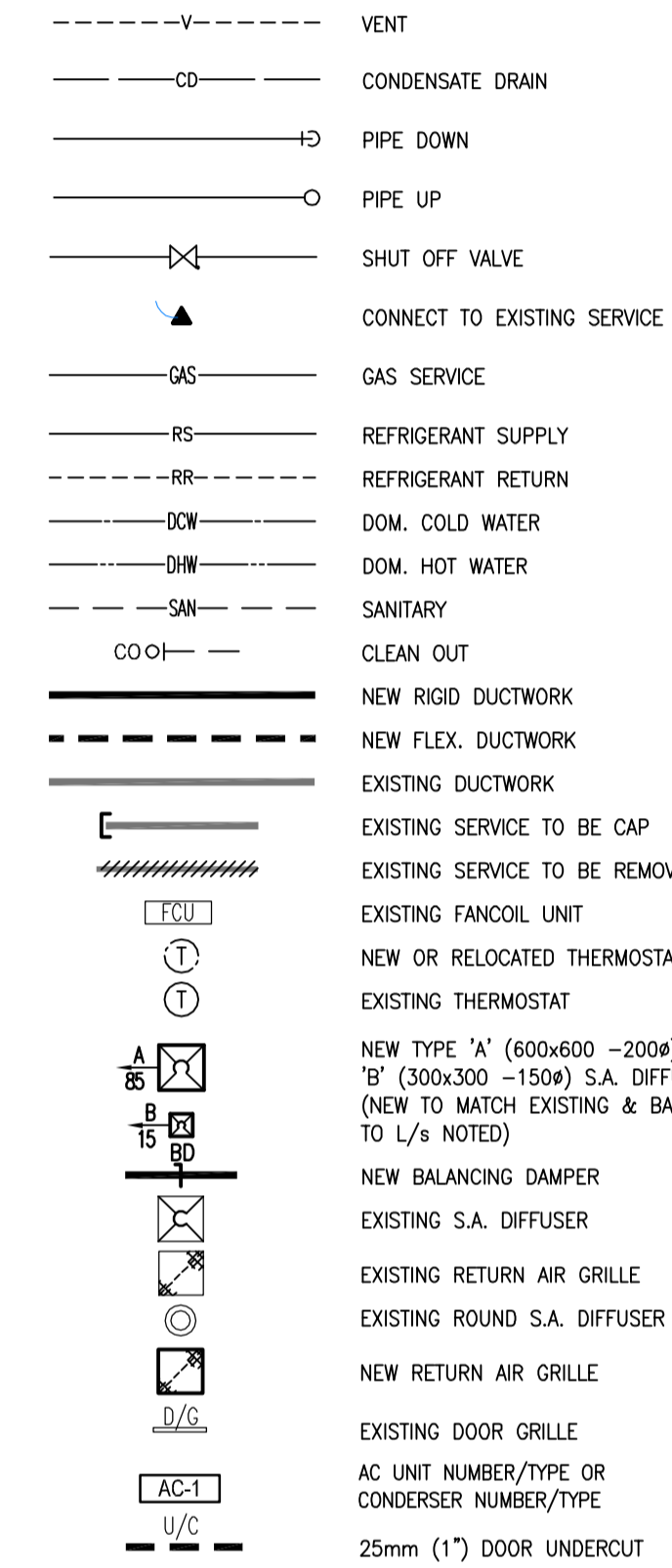
UNIT No.	MANUFACTURER	MODEL No.	LOCATION	LOCATION SERVED	COOLING CAPACITY (kW)		HEATING CAPACITY (kW)	COOLING LAT (°C)	HEATING LAT (°C)	AIR			ELECTRICAL CHARACTERISTICS		UNIT WEIGHT (KG)	DUCT CONFIG. SUPPLY/RET.	COMPRESSOR	REMARKS	
					TOTAL	SENSIBLE				FLOW (L/s)	ESP ("Pa")	O.A. (L/s)	V/PH/Hz	MCA					MOCP
RTU-1	AAON	RN-008-8-0-EA09-3K9	ROOF	SECOND FLR.	27.5	22.3	35.1	12.9	36.5	1,416	237.5	283	208/3/60	50	70	587	BOTTOM	SCROLL	UNIT C/W ROOF CURB, MODULATING COOLING, MODULATING GAS HEAT, THROWAWAY FILTERS WITH A STANDARD FILTER RACK, SINGLE POINT POWER CONNECTION, HACR CIRCUIT BREAKER/DISCONNECT, ECONOMIZER W/ POWER EXHAUST AND HOODS & RETURN DUCT INSTALLED TEMPERATURE SENSOR. UNIT C/W WEATHERPROOF DISCONNECTS. C/W TERMINAL STRIP.

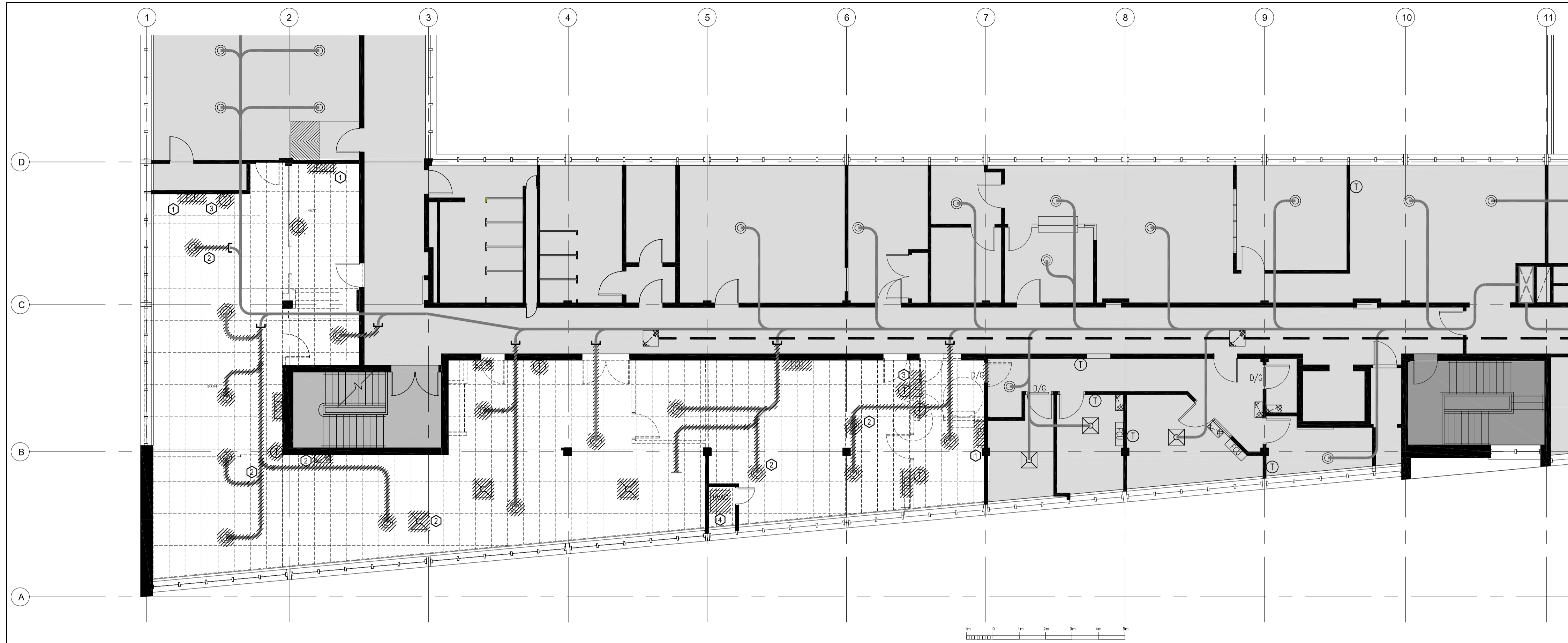
**SPLIT SYSTEM AIR CONDITIONER**

UNIT NO.	LOCATION	COOLING CAPACITY kW	REFRIGERANT TYPE	INDOOR UNIT			POWER			OUTDOOR UNIT			REMARKS		
				UNIT TYPE	FAN L/s (CFM)	ESP Pa (IN.)	VOLTAGE/ PHASE	MCA	MOCP (A)	UNIT NO.	UNIT TYPE	VOLTAGE/ PHASE		MCA	MOCP (A)
AC-1	Room 209B	5.27	R-410A	MITSUBISHI PKA-A18HA4 5.27 kW, DUCTLESS AC UNIT SPLIT A/C INDOOR UNIT	212	-	208/1ø/60Hz	1	15	CU-1	MITSUBISHI PUY-A18NHA4 FLOOR MOUNTED MULTI SPEED UNIT.	208/1ø/60Hz	13	20	C/W LOW AMBIENT KIT (-18C), VARIABLE COMPRESSOR SPEED, BUILT IN DRAIN PUMP

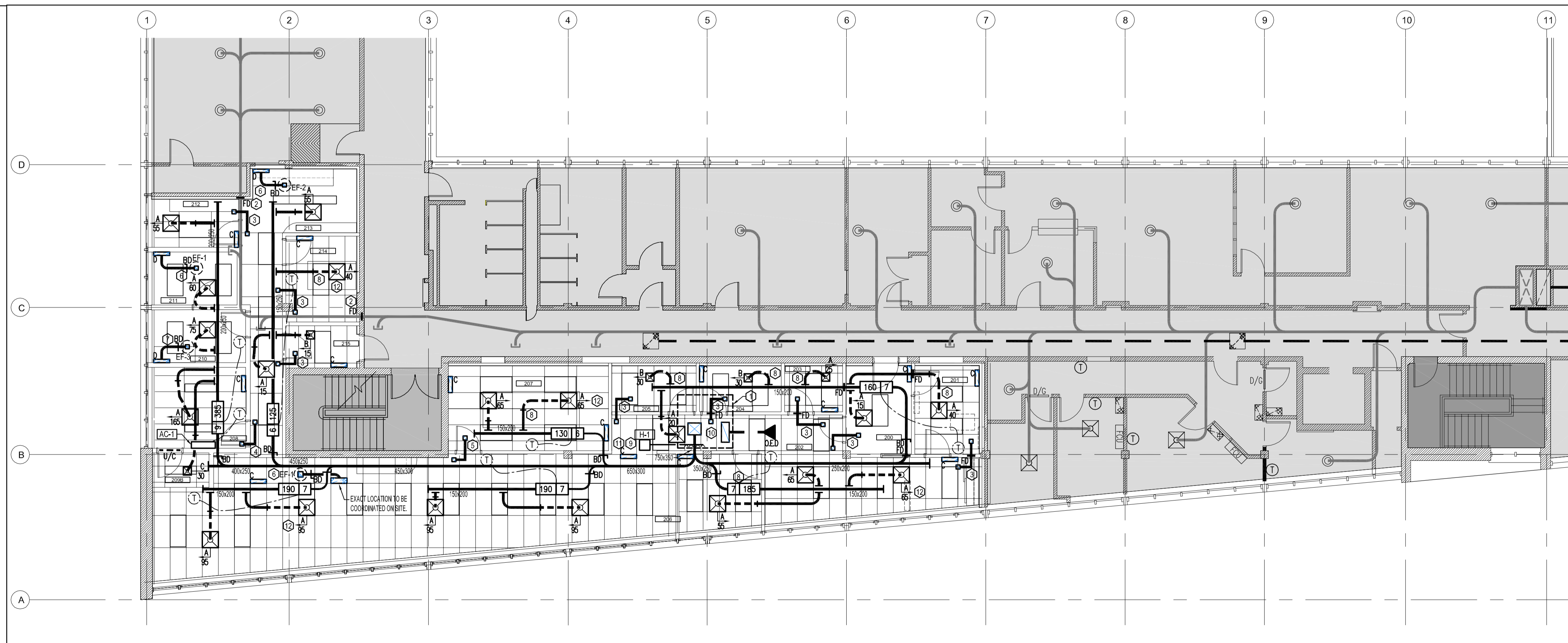
**VARIABLE VOLUME TERMINAL UNIT (VAV BOX)**

UNIT SIZE	MANUFACTURERS DATA				DISCHARGE DUCT SIZE (UNLESS NOTED OTHERWISE) (in. x in.)		REMARKS
	INLET DIA. (in.)	RECTANGULAR BRANCH TAP OR INLET DUCT SIZE (in. x in.)	SELECTION MFG.	MODEL No.	MAX. AIR FLOW (cfm)		
6	6	10 x 6	E.H. PRICE	SDV - 5110	350 250	12 x 10	1.) ALL VAV BOXES TO BE PRESSURE INDEPENDENT ONE PIECE. 2.) VAV BOXES SIZE 6 TO 10 TO BE C/W 3"-0" (900mm.) & BOXES SIZE 12 TO 14 TO BE C/W 5"-0" (1500mm) LONG INTEGRAL SOUND ATTENUATOR. BOXES AND ATTENUATORS TO BE C/W FOIL FACE INSULATION LINING WITH ACCESS PANEL FOR INLET DAMPER. 3.) FOR NEW BOXES DUCT INLET IS TO BE 4 INLET DIAMETERS (MIN.), 6 INLET DIAMETERS MAX. WHERE MAXIMUM INLET DUCT LENGTH IS EXCEEDED DUCT SIZE TO BE AS SHOWN ON TERMINAL UNIT SCHEDULE AS DISCHARGE DUCT SIZE.
7	7	12 x 8	E.H. PRICE	SDV - 5110	500 400	12 x 12	
8	8	14 x 8	E.H. PRICE	SDV - 5110	700 550	12 x 12	
9	9	16 x 9	E.H. PRICE	SDV - 5110	900 725	14 x 12	
10	10	20 x 9	E.H. PRICE	SDV - 5110	1100 950	14 x 12	
12	12	20 x 12	E.H. PRICE	SDV - 5110	1800 1400	18 x 15	
14	14	24 x 14	E.H. PRICE	SDV - 5110	2500 1400	20 x 18	





**1** DEMOLITION LAYOUT  
M-02 1:100



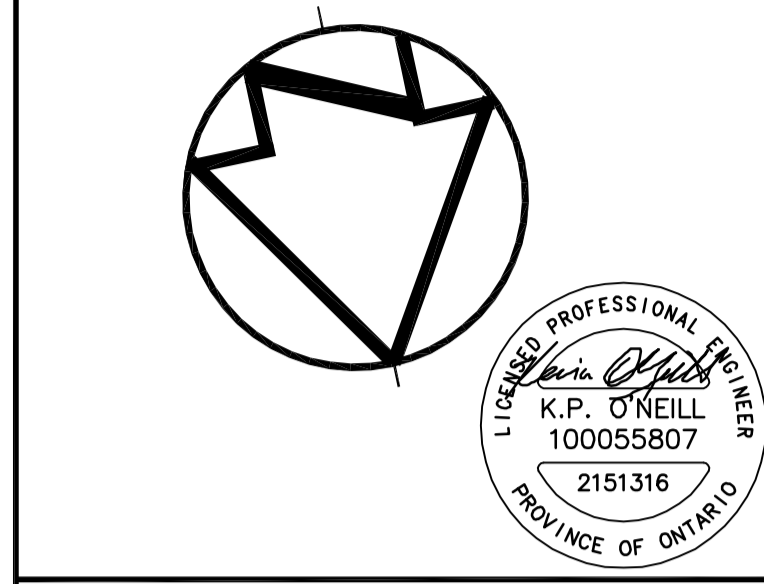
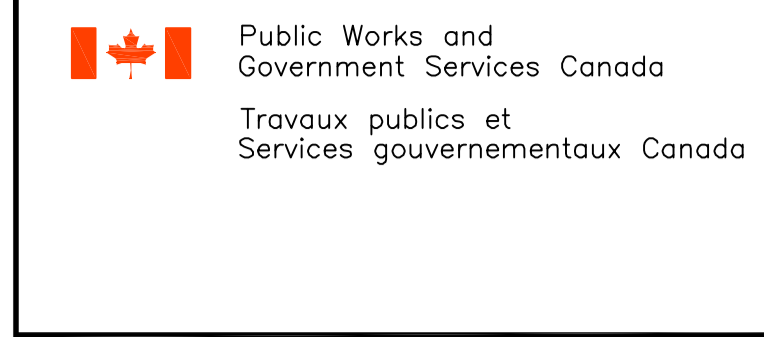
**2** NEW LAYOUT  
M-02 1:100

- DRAWING NOTES:**
- REMOVE AND DISPOSE OF EXISTING FANCOIL UNIT, CUT BACK ASSOCIATED PIPING AND CONTROL WIRING TO SOURCE AND MAKE SAFE. PATCH WALL OPENINGS/HOLES AND MAKE GOOD. MATERIAL TO MATCH EXISTING (TYP.).
  - REMOVE AND DISPOSE OF EXISTING DUCTWORK, ASSOCIATED SUPPLY AIR DIFFUSER, RETURN AIR GRILLES, CUT BACK AND CAP EXISTING DUCTWORK AS SHOWN (TYP.).
  - REMOVE AND DISPOSE OF EXISTING THERMOSTAT. PATCH WALL OPENINGS/HOLES AND MAKE GOOD (AS REQUIRED). MATERIAL TO MATCH EXISTING (TYP.).
  - REMOVE AND DISPOSE OF EXISTING HVAC EQUIPMENT & ACCESSORIES. CUT BACK ASSOCIATED PIPING AND CONTROL WIRING TO SOURCE AND MAKE SAFE.

**GENERAL NOTES:**  
ALL EQUIPMENT/MATERIALS REMOVED UNLESS NOTED OTHERWISE SHALL BE DISPOSED OF BY THIS CONTRACTOR.  
ALL EXISTING EQUIPMENT TO REMAIN UNLESS NOTED OTHERWISE.  
SHADED PORTION OF THE FLOOR PLAN IS NOT IN CONTRACT (NIC).

- DRAWING NOTES:**
- OUTLINE OF ROOFTOP UNIT (RTU-1) ON ROOF.
  - PROVIDE SECURITY GRILLE PER BASE BUILDING STANDARD. CONTRACTOR TO CHECK & PROVIDE FIRE DAMPER TO THE EXISTING DUCTWORK, AS SHOWN IF NONE IS INSTALLED ON SITE.
  - 150x150 TRANSFER AIR DUCT WITH ACOUSTIC INTERNAL LINING.
  - 300x200 TRANSFER AIR DUCT WITH ACOUSTIC INTERNAL LINING.
  - 250x200 TRANSFER AIR DUCT WITH ACOUSTIC INTERNAL LINING.
  - 200x150 DUCT UP THRU ROOF TO E.F.
  - 200x200 DUCT UP THRU ROOF TO E.F.
  - ALL RIGID & FLEXIBLE DUCTWORK IS TO COMPLETE WITH 25mm ACOUSTIC INTERNAL INSULATION IN THIS AREA.
  - PROVIDE SYSTEM CRUIZ RAPID-START HUMIDIFIER MODEL & UNIT CAPACITY OF 18 LBS-HR. COMPLETE WITH DISPERSION CONDENSATE PUMP, HIGH LIMIT HUMIDISTAT & VAPOR LOGIC CONTROLLER. ELECTRICAL CHARACTERISTIC 208V, 1PH, 28BA. SUPPORT AND SUSPEND HUMIDIFIER IN THE CEILING SPACE. INSTALL WITH THE REQUIRED PARTS & ACCESSORIES PER MANUFACTURERS RECOMMENDATION.
  - PROVIDE FLEXIBLE CONNECTION FOR SUPPLY AND RETURN DUCTWORK.
  - INTERLOCK HUMIDIFIER OPERATION WITH RTU-1 HUMIDIFIER SHALL BE DISABLED IF ROOFTOP UNIT IS IN COOLING OR ECONOMIZER MODE.
  - BALANCE ALL SUPPLY AIR DIFFUSERS TO THE AIRFLOWS SHOWN (TYP.).

**GENERAL NOTES:**  
MOUNT ALL NEW THERMOSTATS AT 1200mm A.F.F. COORDINATE LOCATIONS OF ALL NEW VAV BOX THERMOSTATS WITHIN THE SPACE WITH DESIGNER PRIOR TO INSTALLATION.  
CONTROLS WORK TO BE CARRIED OUT BY OWNERS PREFERRED CONTRACTOR.  
BRANCH RUNOUTS TO DIFFUSERS SHALL MATCH DIFFUSER INLET SIZE.  
MINIMUM VAV SET POINT TO BE 25% (OR PER BASE BUILDING STANDARD) OF MAXIMUM SETTING.  
ALL NEW RIGID SUPPLY AIR DUCTWORK TO BE COVERED WITH 25mm EXTERNAL INSULATION (OR PER BASE BUILDING STANDARD).  
DUCTWORK FOR EXHAUST FANS TO BE LINED WITH 25mm INTERNAL ACOUSTIC INSULATION (OR PER BASE BUILDING STANDARD).  
MAXIMUM LENGTH OF FLEXIBLE DUCT IS 3000mm. USE RIGID ROUND DUCTWORK FOR SECTIONS ADJACENT CONNECTION TO BRANCH DUCT SO THAT MAXIMUM ALLOWED LENGTH IS NOT EXCEEDED.  
NEW FLEXIBLE DUCT TO BE COMPLETE WITH 25mm FOIL FACE INSULATION (OR PER BASE BUILDING STANDARD) AND CONNECTION TO BRANCH DUCT IS REQUIRED. SPIN-ON DUCT COLLARS WITH BALANCING DAMPERS.  
SERVICES ABOVE RETURN AIR GRILLES TO BE PAINTED FLAT BLACK.  
REFER TO MECHANICAL DRAWINGS FOR EQUIPMENT SPECIFICATIONS.  
CONTRACTOR TO COORDINATE ALL MECHANICAL WORK WITH OTHER DISCIPLINE.



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05	SUBMITTED FOR TENDER	2016/10/07
04	SUBMITTED FOR 99% CLIENT REVIEW	2016/09/02
03	SUBMITTED FOR 66% CLIENT REVIEW	2017/07/15
02	SUBMITTED FOR 66% CLIENT REVIEW	2016/03/30
01	SUBMITTED FOR 66% CLIENT REVIEW	2016/01/20
revision		date

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C	drawing no. - where detailed	dessin no. - où détaillé

project title  
titre du projet

Ontario

105 CRISTINA STREET SOUTH

**FIT UP FOR A PUBLIC SAFETY CLIENT SARNIA, ONTARIO**

drawing title  
titre du dessin

**HVAC DEMOLITION AND NEW LAYOUT MECHANICAL**

drawn by  
dessiné par

AA

designed by  
conçu par

AA/HMB

approved by  
approuvé par

HMB

bid  
offre

A.MENIKGAMA project manager  
administrateur de projets

project date  
date du projet

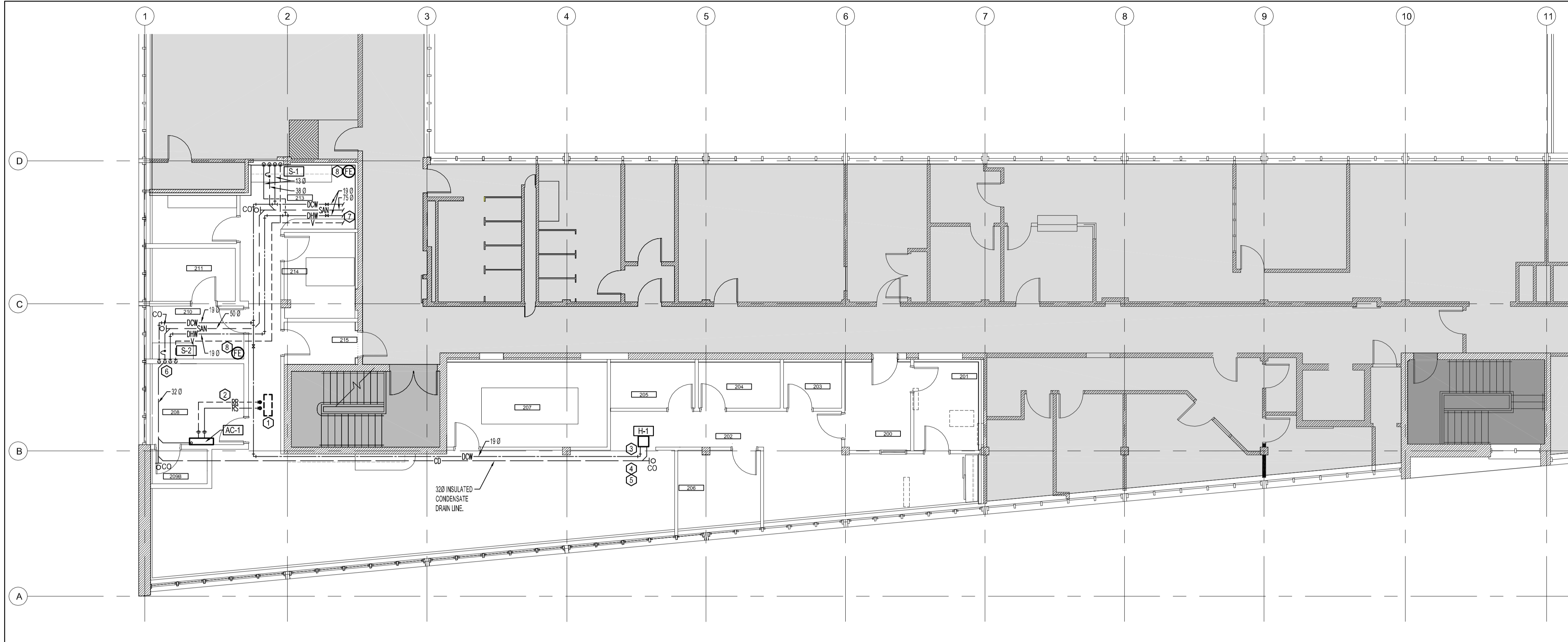
2015-12-17

project no.  
no. du projet

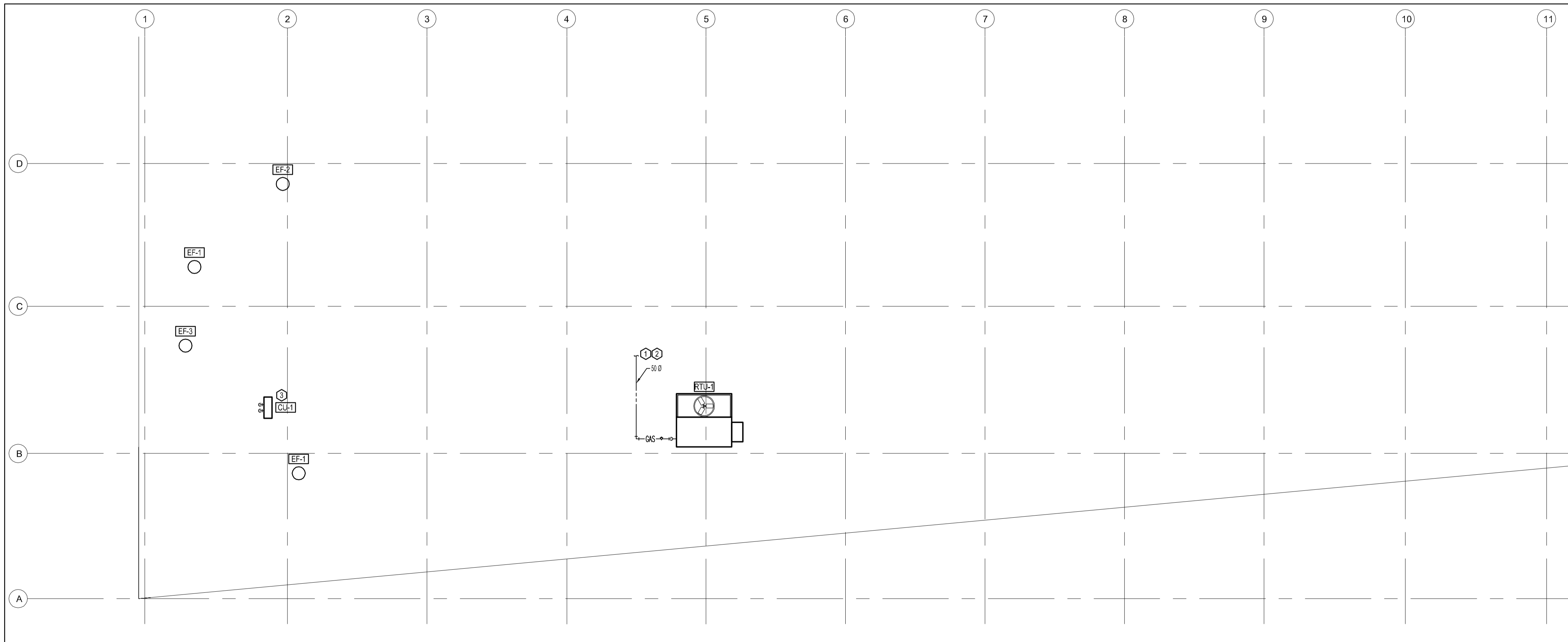
R.073089.040  
R.073089.052

drawing no.  
dessiné no.

M-02



**1 NEW LAYOUT**  
M-03 1:100



**2 ROOF PLAN**  
M-03 1:100

- DRAWING NOTES:**
- 1 OUTLINE OF CONDENSATE UNIT (CU-1) ON ROOF.
  - 2 CONTRACTOR TO COORDINATE EQUIPMENT SUPPLIER FOR REFRIGERANT LINE SIZING.
  - 3 PROVIDE & INSTALL WATER SUPPLY LINE WITH REQUIRED PARTS & ACCESSORIES (I.E. STRAINER) PER MANUFACTURERS RECOMMENDATION.
  - 4 PROVIDE & INSTALL CONDENSATE DRAIN LINE WITH REQUIRED PARTS & ACCESSORIES (I.E. TRAP) PER MANUFACTURERS RECOMMENDATION.
  - 5 PROVIDE CONDENSATE PUMP MOUNTED TO UNIT ENCLASURE. PUMP EQUAL TO U.L. GRANT (AS REQUIRED).
  - 6 380 CONDENSATE DRAIN LINE TO CEILING SPACE OPEN SITE DRAIN (SEE DETAIL). PROVIDE INSULATION FOR ENTIRE RUN.
  - 7 NEW DOMESTIC WATER LINES, SANITARY LINE AND VENT LINE TO BE CONNECTED TO THE NEAREST EXISTING SERVICES AVAILABLE IN THIS AREA. CONTRACTOR TO VERIFY AND CONFIRM EXACT LOCATION ON SITE.
  - 8 PROVIDE U.L.C APPROVED UL85 ABC FIRE EXTINGUISHER COMPLETE WITH MOUNTING BRACKET.

**GENERAL NOTES:**

ALL WORK TO CONFORM WITH CBC AND BASEBUILDING STANDARD.

CONTRACTOR TO COORDINATE ALL MECHANICAL WORK WITH OTHER DISCIPLINE.

- DRAWING NOTES:**
- 1 GAS SERVICE ROUTED ACROSS THE ROOF COMPLETE WITH SUPPORTS. SUPPORTS ARE PER BASEBUILDING STANDARD.
  - 2 CONNECT NEW GAS LINE TO THE EXISTING GAS SERVICE ON ROOF. CONTRACTOR TO CONFIRM TIE-IN LOCATION AND EXACT ROUTING OF THE NEW GAS SERVICE.
  - 3 PROVIDE CONCRETE HOUSEKEEPING PAD.

**GENERAL NOTES:**

ENSURE ALL ROOFTOP UNIT IS A MINIMUM OF 1.8M (6 FT.) FROM THE EDGE OF THE ROOF.

ENSURE ALL ROOFTOP UNIT IS A MINIMUM OF 3.3M (11.5 FT.) FROM ALL EXHAUST FANS, STACKS & VENTS.

ENSURE ALL EQUIPMENT DISTANCES & CLEARANCES REQUIREMENT PER MANUFACTURERS RECOMMENDATION BE FOLLOWED.

PROVIDE ALL EQUIPMENT & ACCESSORIES REQUIRED FOR COMPLETE INSTALLATION.

ALL WORK TO CONFORM WITH CBC AND BASEBUILDING STANDARD.

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A Detail No.  
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B drawing no. - where detail required  
dessin no. - où détail exigé  
C drawing no. - where detailed  
dessin no. - où détaillé

project title  
titre du projet

Ontario  
105 CRISTINA STREET SOUTH  
FIT UP FOR A PUBLIC SAFETY CLIENT SARNIA, ONTARIO

drawing title  
titre du dessin  
**PLUMBING/DRAINAGE  
NEW LAYOUT  
& ROOF PLAN**

drawn by  
dessiné par AA

designed by  
conçu par AA/HMB

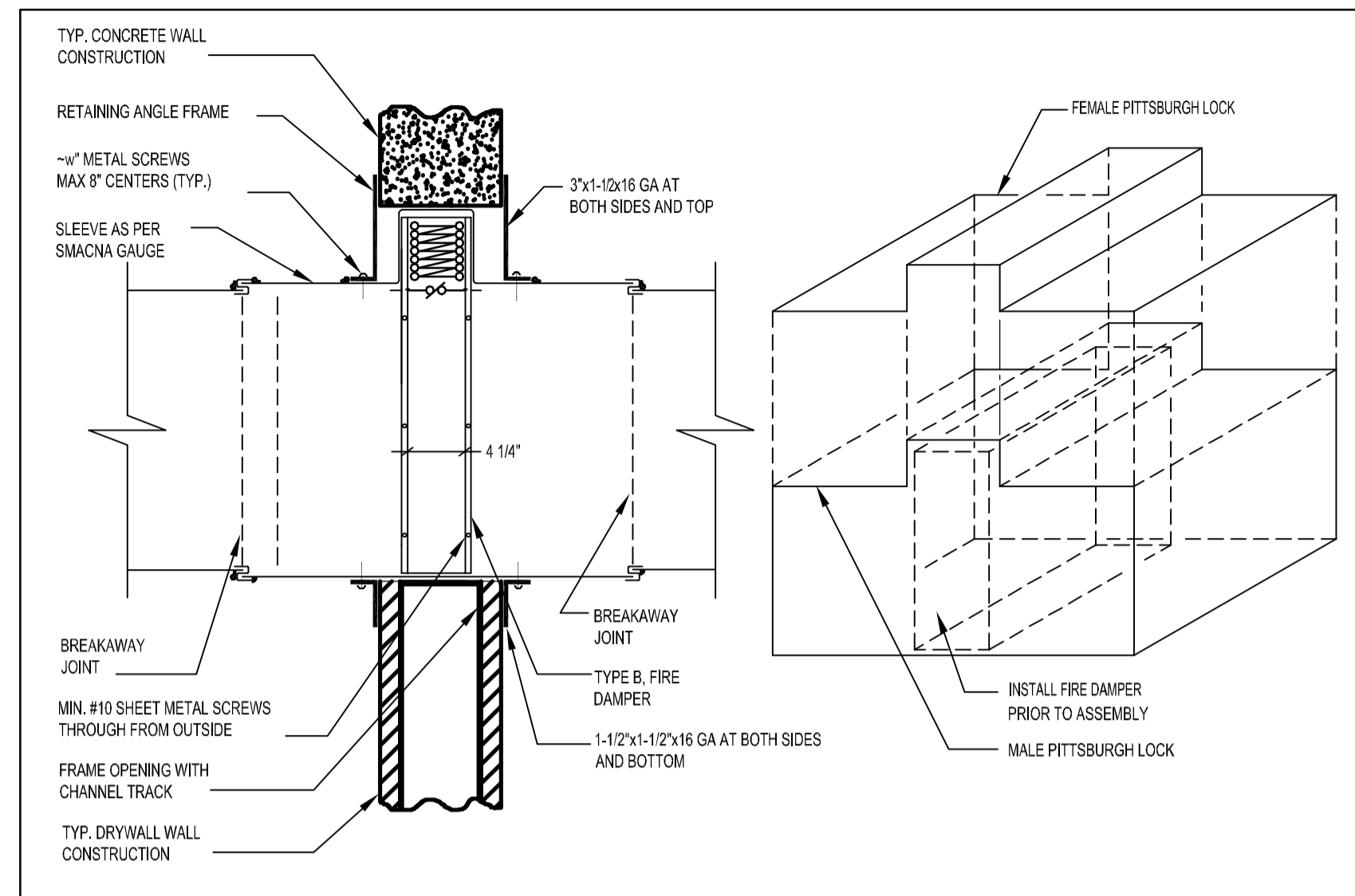
approved by  
approuvé par HMB

bid offer  
offre A.MENIKGAMA project manager  
administrateur de projets

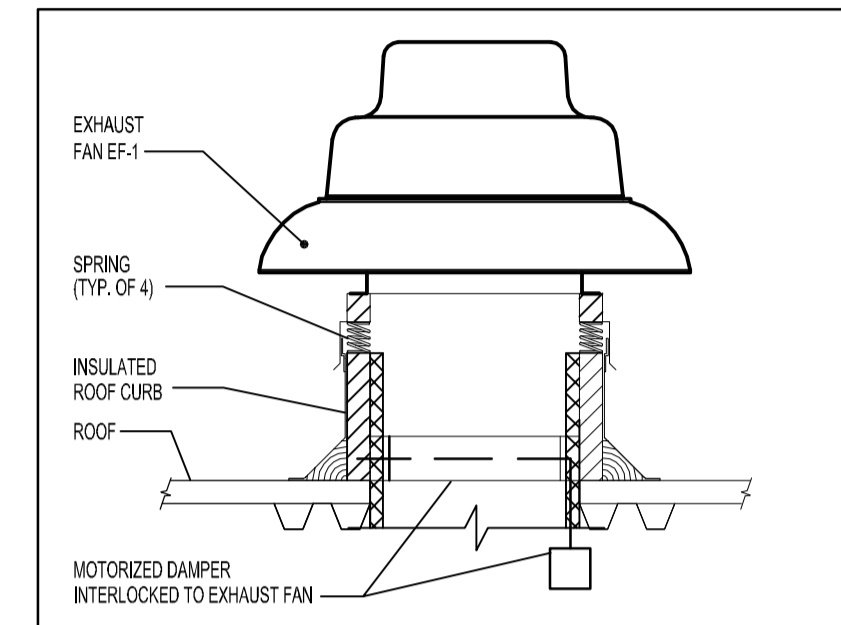
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date du projet 2015-12-17

project no.  
no. du projet R.073089.040  
R.073089.052

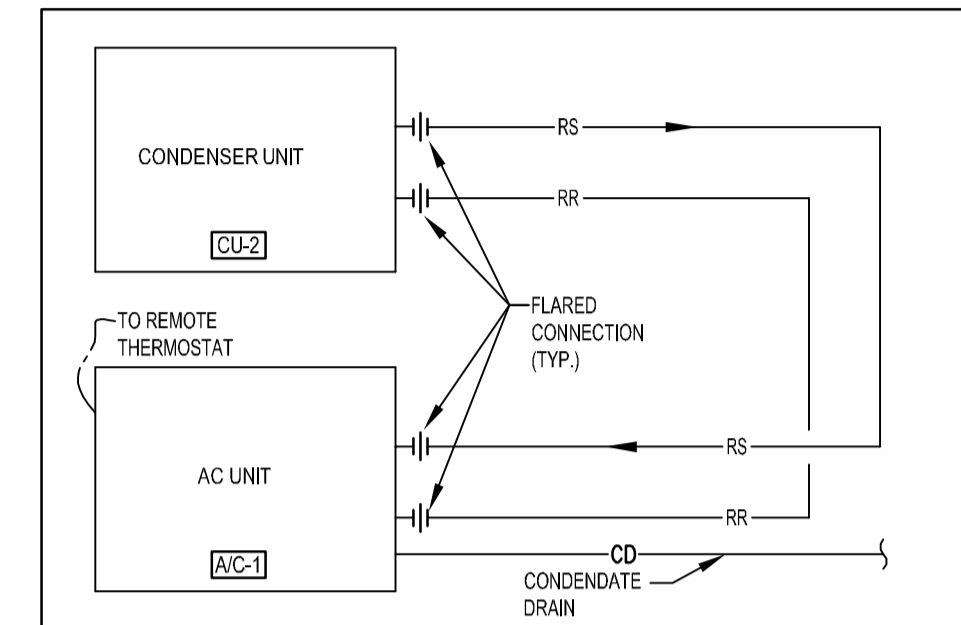
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dessiné no. M-03



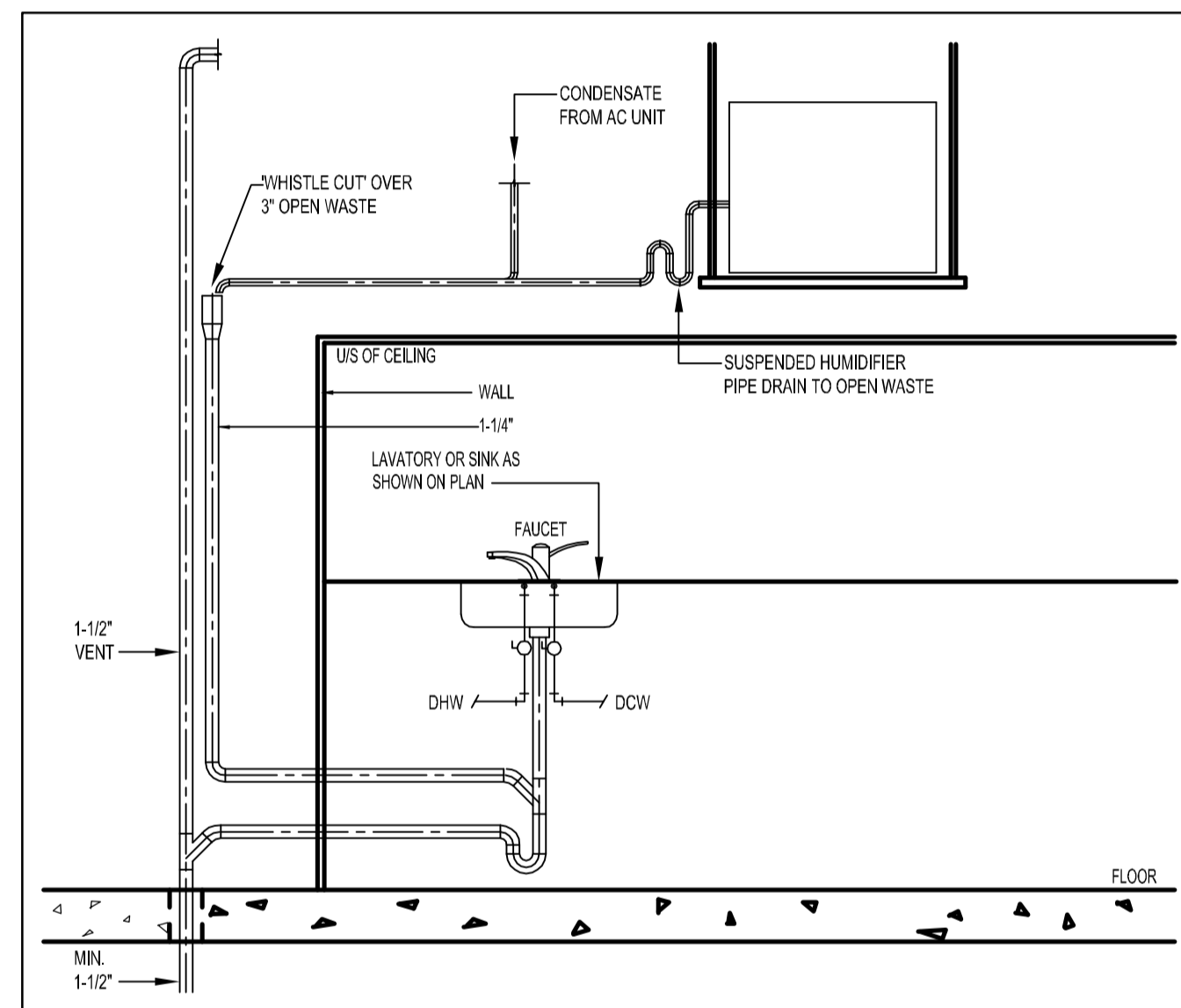
**1** TYPE 'B' FIRE DAMPER INSTALLATION  
M-04 N.T.S.



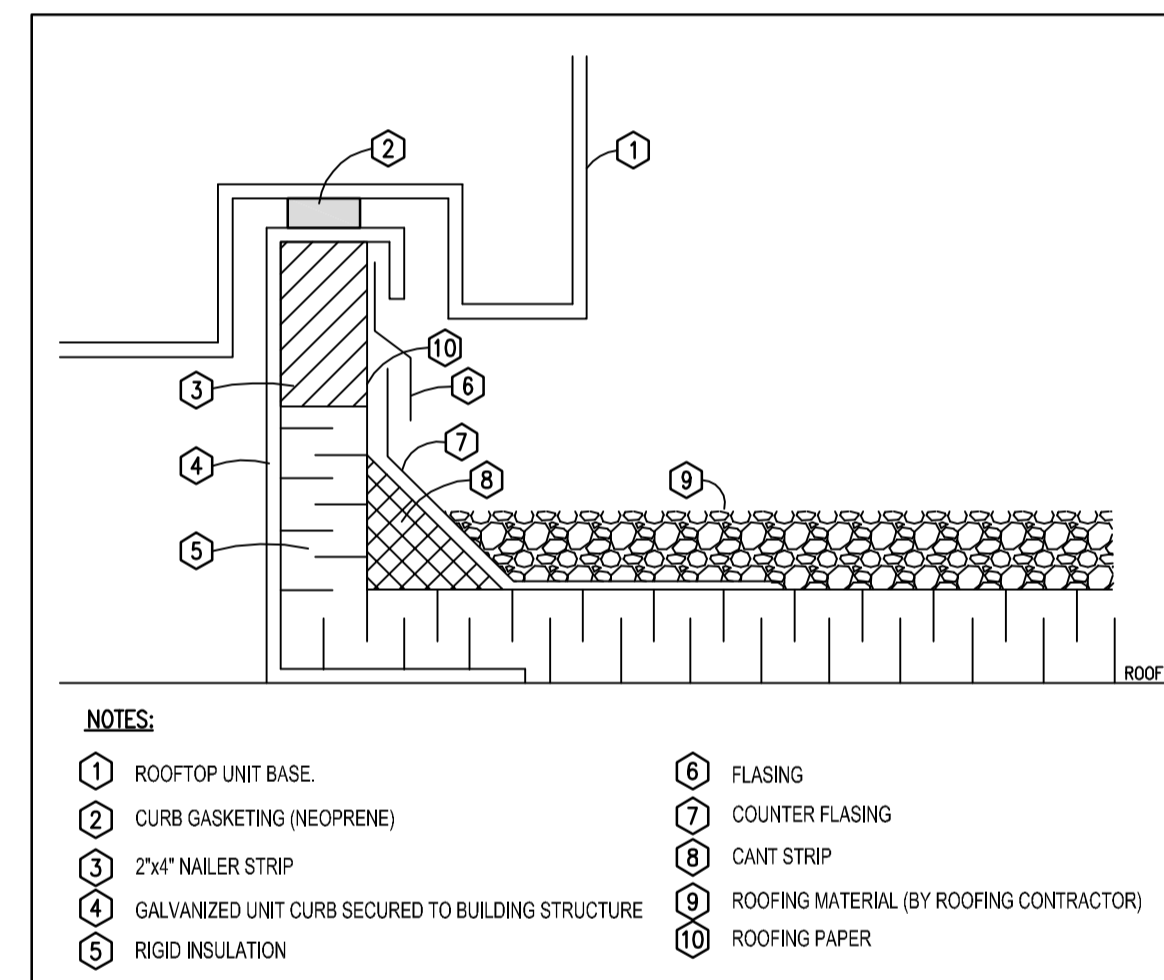
**4** ROOF MTD. EX. FAN WITH CURB DETAIL  
M-04 N.T.S.



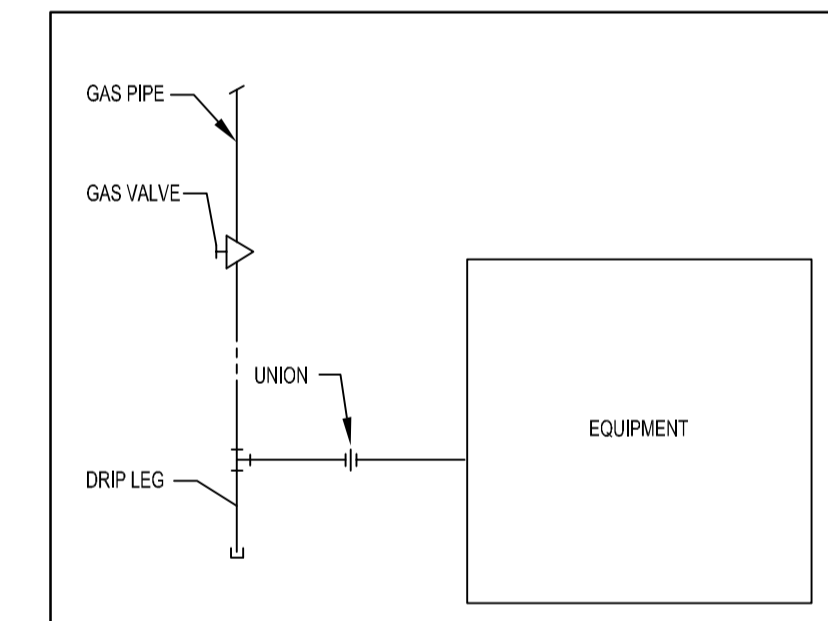
**7** TYP. AC UNIT INSTALLATION & SCHEMATIC  
M-04 N.T.S.



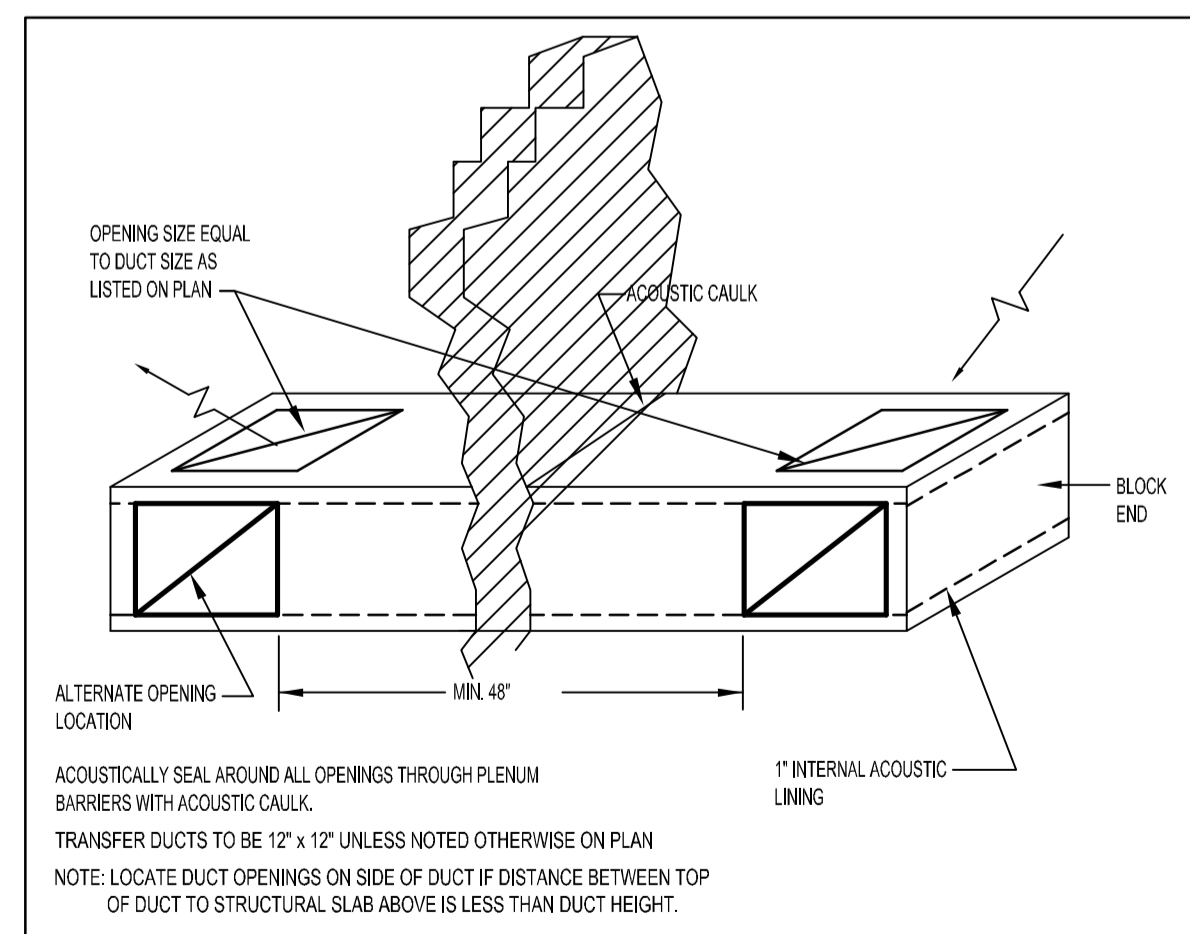
**2** TYPICAL DRAIN & DOMESTIC WATER PIPING ARRANGEMENT  
M-04 N.T.S.



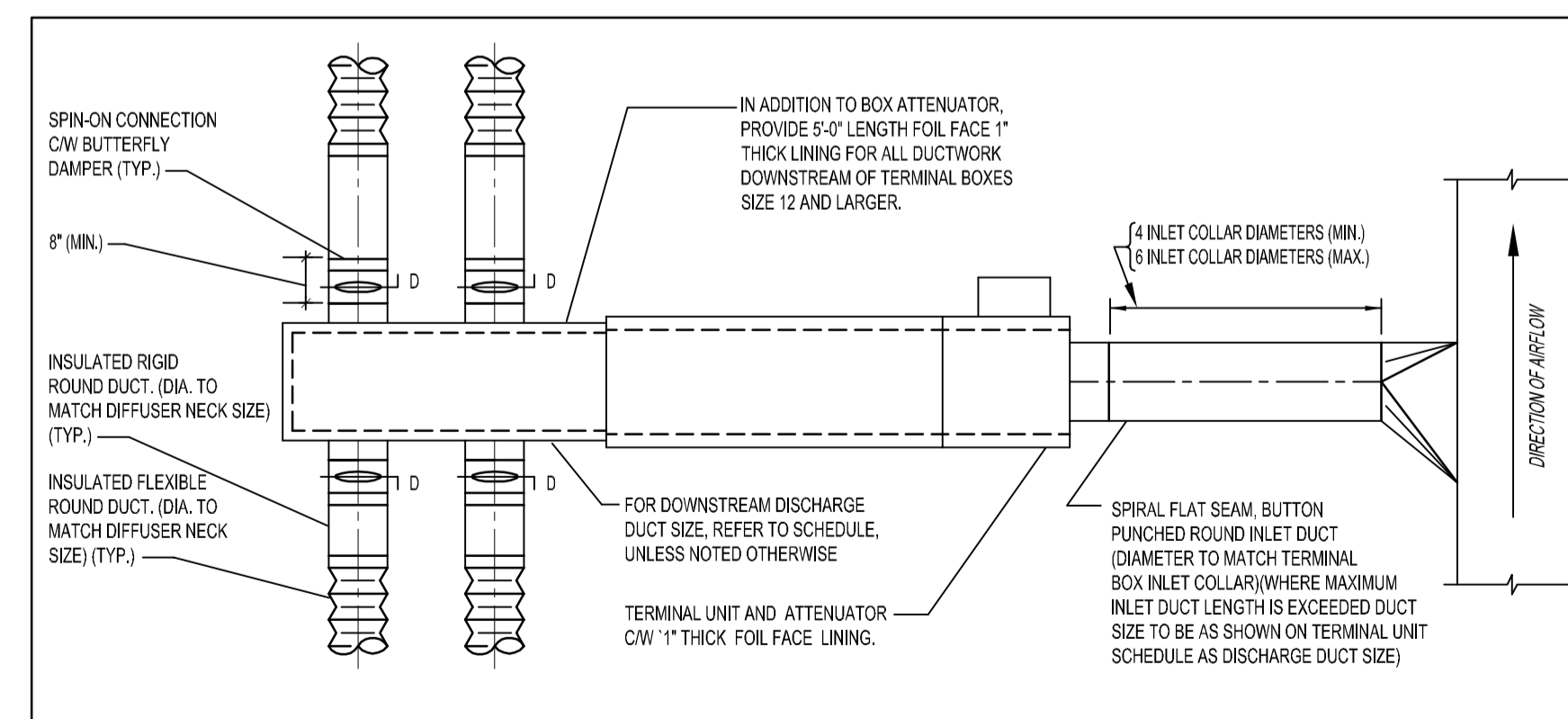
**5** ROOF CURB DETAILS  
M-04 N.T.S.



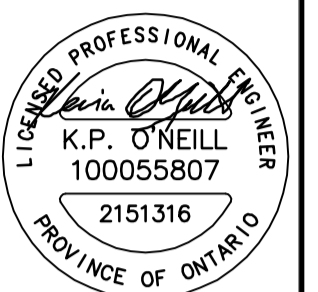
**8** GAS DRIP LEG DETAIL  
M-04 N.T.S.



**3** TYPICAL AIR TRANSFER DUCT DETAIL  
M-04 N.T.S.



**6** TYPICAL VAV BOX WITH ATTENUATOR DETAIL  
M-04 N.T.S.



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project title  
titre du projet  
Ontario  
105 CRISTINA STREET SOUTH  
FIT UP FOR A PUBLIC SAFETY  
CLIENT SARNIA, ONTARIO

drawing title  
titre du dessin  
DETAILS & SCHEMATIC  
MECHANICAL

drawn by  
dessiné par AA

designed by  
conçu par AA/HMB

approved by  
approuvé par HMB

bid  
offre A.MENIKGAMA project manager  
administrateur de projets

project date  
date du projet 2015-12-17

project no.  
no. du projet R.073089.040  
R.073089.052

drawing no.  
dessiné no. M-04



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105 CRISTINA STREET SOUTH

**FIT UP FOR A PUBLIC SAFETY CLIENT SARNIA, ONTARIO**

drawing title  
titre du dessin

**CONTROL SCHEMATIC MECHANICAL**

drawn by  
dessiné par

AA

designed by  
conçue par

AA/HMB

approved by  
approuvé par

HMB

bid offer  
offre

A.MENIKGAMA project manager  
administrateur de projets

project date  
date du projet

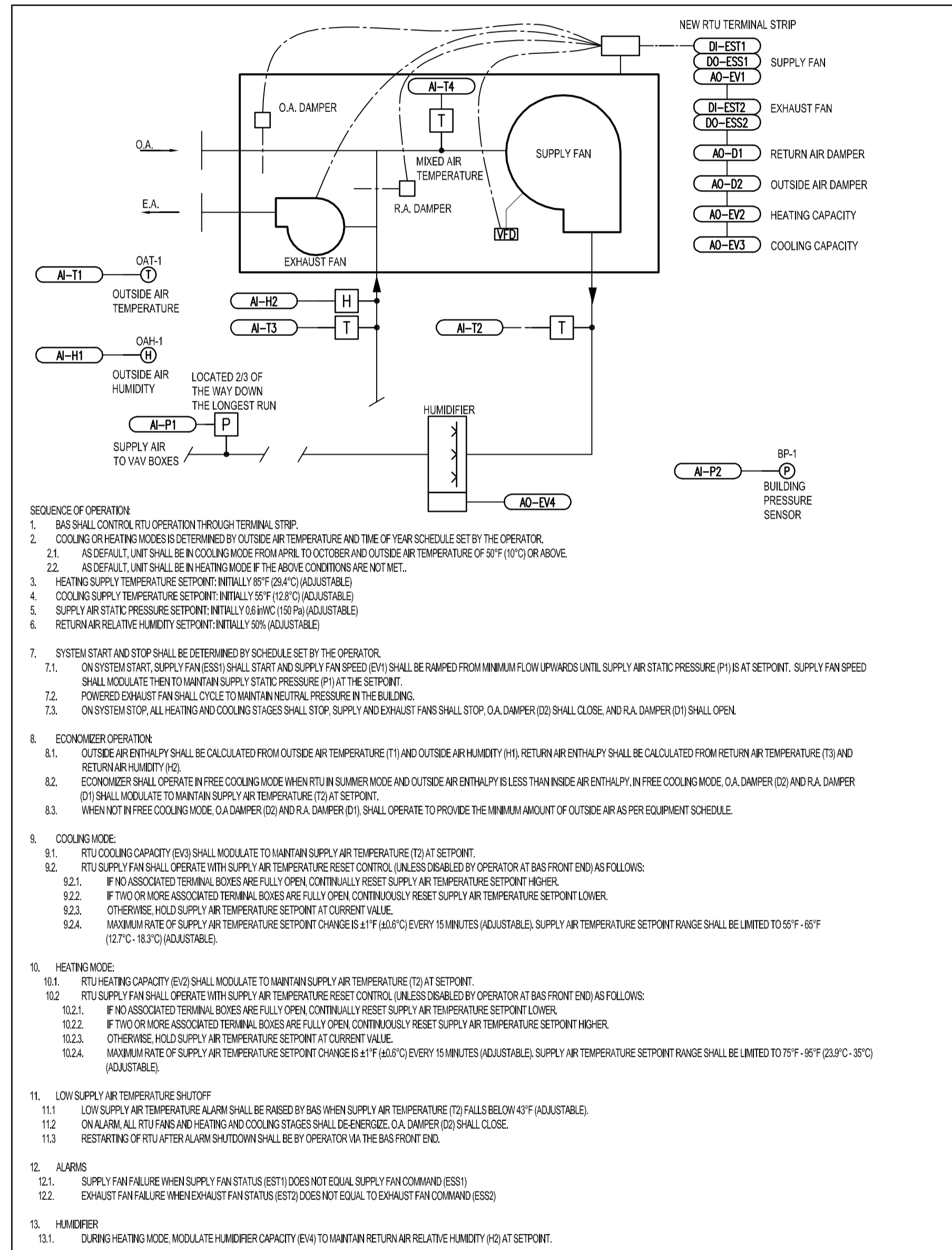
2015-12-17

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no. du projet

R.073089.040  
R.073089.052

drawing no.  
dessiné no.

M-05



**1 ROOFTOP UNIT RTU-1 CONTROL SCHEMATIC**  
N.T.S.

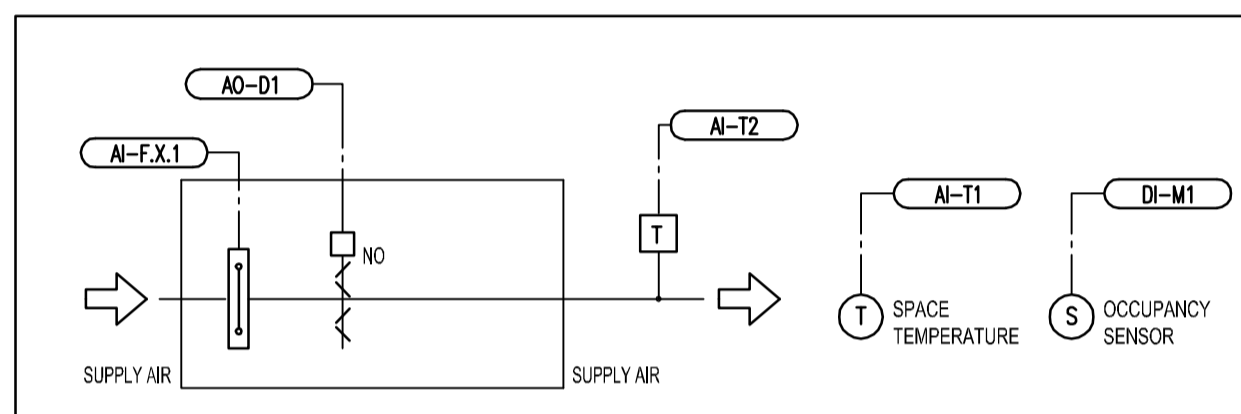
**SEQUENCE OF OPERATIONS:**

SUMMER (OCCUPIED MODE BASED ON TOD SCHEDULE)  
- MODULATE VAV DAMPER BETWEEN MIN. & MAX. POSITIONS TO MAINTAIN SETPOINT (OR AVERAGE SETPOINT) OF 75°F (ADJUSTABLE).

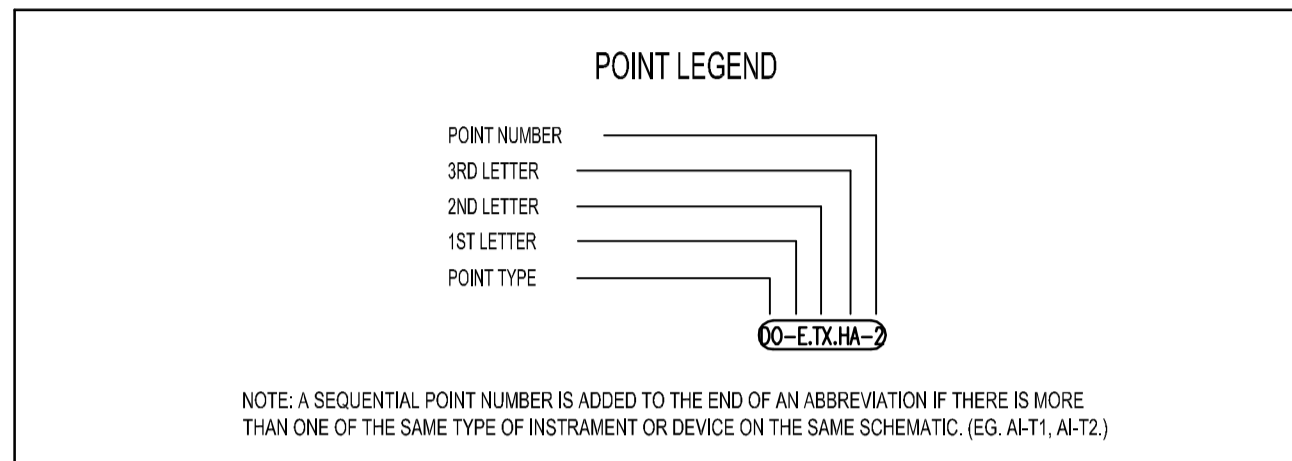
SUMMER (UN-OCCUPIED MODE)  
- VAV BOX CLOSED TO MIN. POSITION.

WINTER (OCCUPIED MODE)  
- MODULATE VAV BOX DAMPER IN SEQUENCE TO MAINTAIN ROOM (OR AVERAGE ROOM) TEMPERATURE SETPOINT OF 72°F (ADJUSTABLE).

WINTER (UN-OCCUPIED MODE)  
- SET VAV BOX TO MINIMUM POSITION TO MAINTAIN ROOM (OR AVERAGE ROOM) TEMPERATURE 65°F (ADJUSTABLE).



**2 CONTROL SCHEMATIC - TYPICAL VAV BOX**  
N.T.S.



**POINT TYPE**

AI	ANALOGUE INPUT	 HARDWIRE INTERLOCK C/W END SWITCH HARDWIRE INTERLOCK (DAMPER MOTOR NUMBER) (NORMALLY CLOSED - OR 'NO' - NORMALLY OPEN)
AO	ANALOGUE OUTPUT	
DI	DIGITAL INPUT	
DO	DIGITAL OUTPUT	
SC	SERIAL COMMUNICATION	
MD	MODEM CONNECTION	

**CONTROL POINT IDENTIFICATION LEGEND**

POINT ABBREVIATION

1ST LETTER	2ND LETTER	3RD LETTER	4TH LETTER
A	ANALOG	I	INPUT
D	DIGITAL	O	OUTPUT
D	DAMPER	E	EQUIPMENT
F	FLOW	H	HUMIDITY
M	MISCELLANEOUS	P	PRESSURE
T	TEMPERATURE		
A	ALARM	SS	START/STOP
		ST	STATUS
		V	VELOCITY/RATE

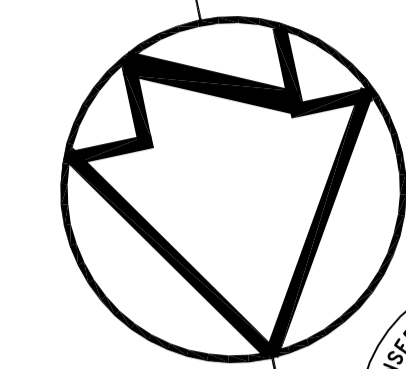
LUMINAIRE SCHEDULE

Table with 3 columns: TYPE, DESCRIPTION, LAMPS. Rows include details for luminaire types L01 through L05 and a general note.

GENERAL NOTE:  
ELECTRICAL CONTRACTOR TO PROVIDE 2 CHAINS FROM EACH LUMINAIRE TO BUILDING STRUCTURE.

ELECTRICAL LEGEND

Table with 4 columns: POWER, LIGHTING, EXISTING, and DESCRIPTION. It lists symbols and descriptions for electrical components such as receptacles, switches, and communication devices.



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Table with 3 columns: Revision/Date, Description, Date. Includes dates for submission and client review.

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Table for Detail No. with columns A, B, C and corresponding drawing details.

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titre du projet  
Ontario  
105 CRISTINA STREET SOUTH  
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CLIENT SARNIA, ONTARIO

drawing title  
titre du dessin  
ELECTRICAL LEGEND AND  
DETAILS

drawn by  
dessine par  
ME

designed by  
conc par  
L.G.W.

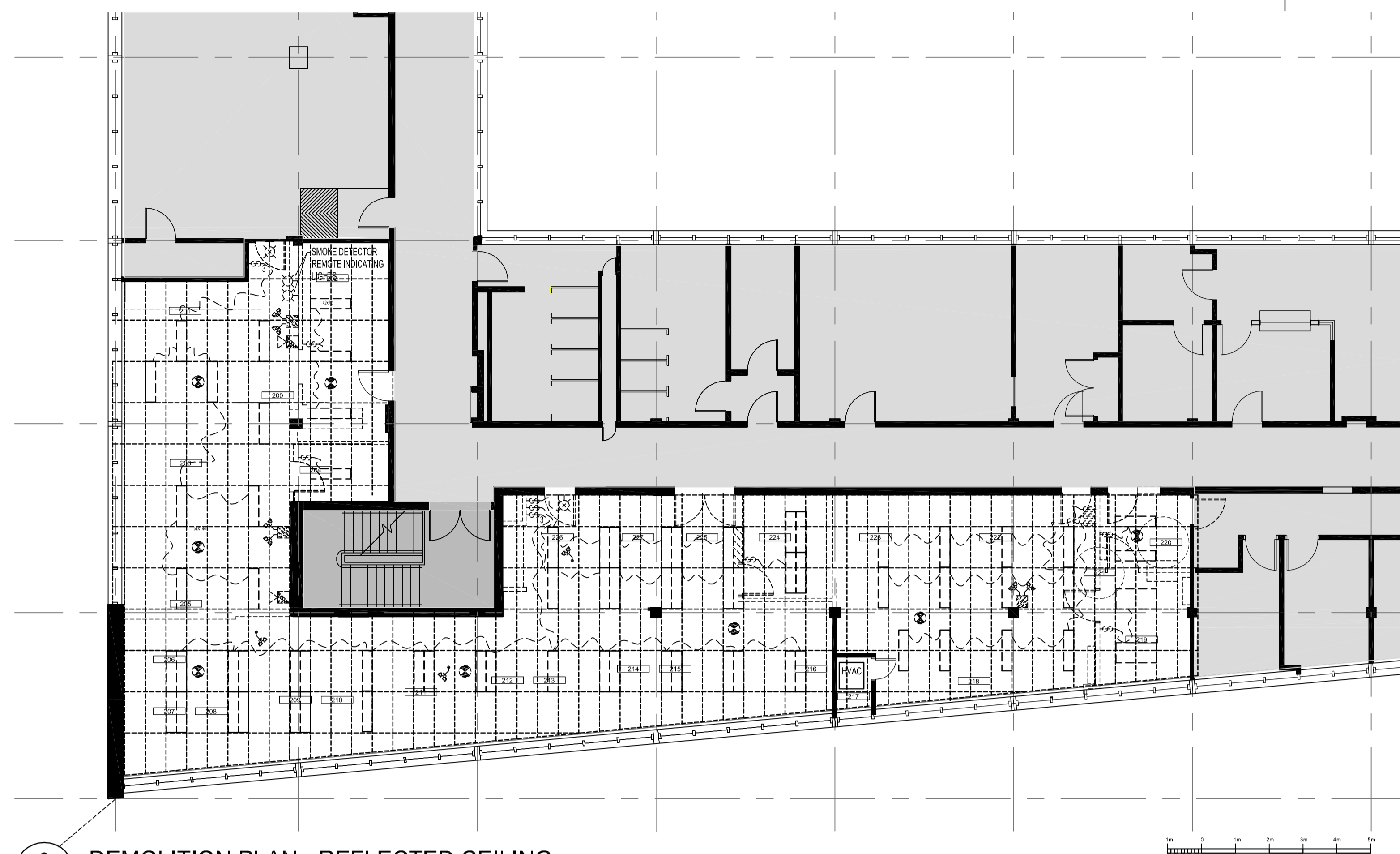
approved by  
approuve par  
L.G.W.

bid  
offre  
A.MENIKGAMA  
project manager  
administrateur de projets

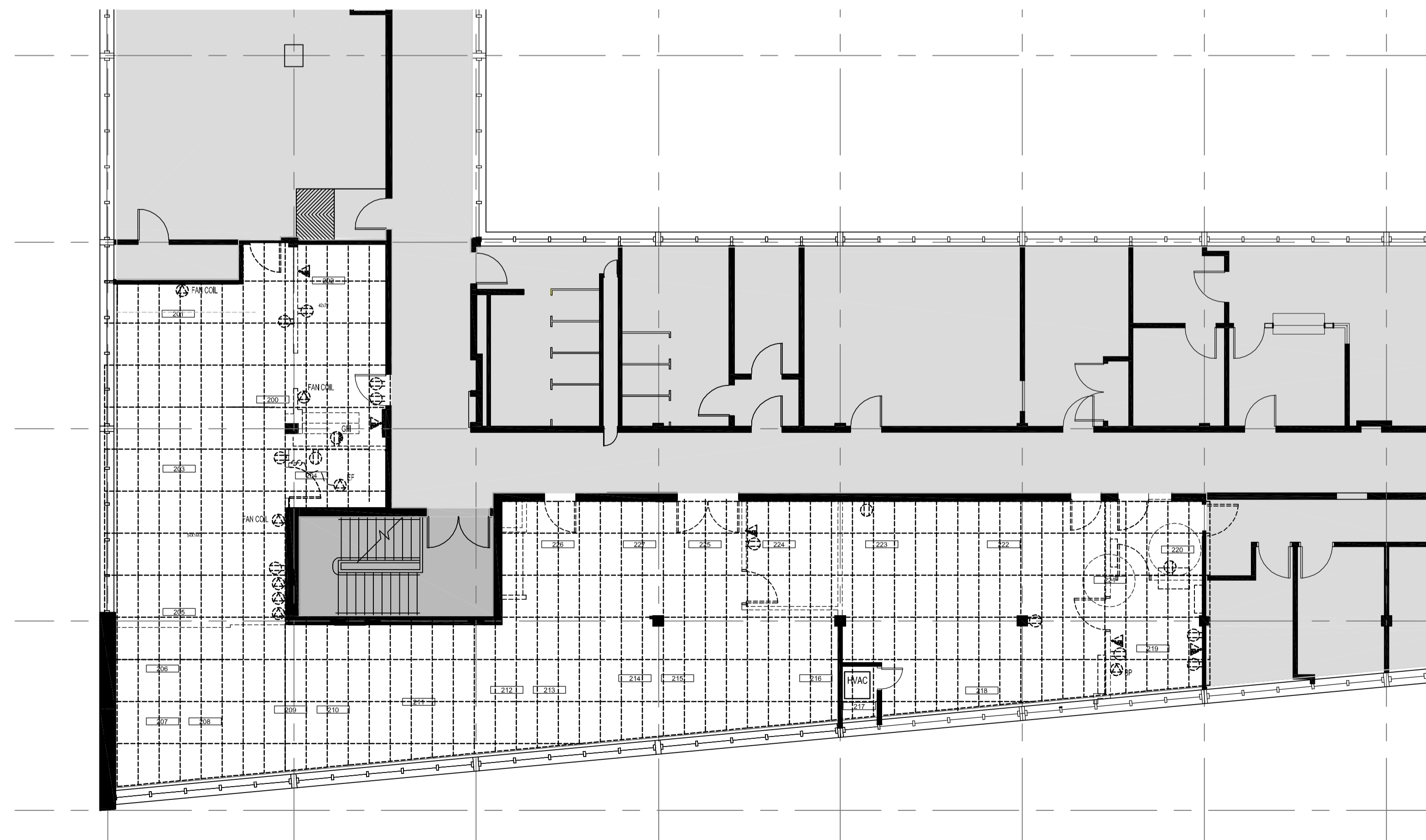
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date du projet  
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project no.  
no. du projet  
R.073089.040  
R.073089.052

drawing no.  
dessine no.  
E100



**2 DEMOLITION PLAN - REFLECTED CEILING**  
E-200 1:100



**1 DEMOLITION PLAN**  
E-200 1:100

**GENERAL DEMOLITION NOTES:ELECTRICAL**

- DEMOLITION DRAWINGS DO NOT INDICATE ALL ELECTRICAL DEVICES. HOWEVER, ALL COSTS ASSOCIATED WITH THE ELECTRICAL DEMOLITION ARE TO BE INCLUDED IN THE DEMOLITION PRICE. REMOVE ALL ELECTRICAL WORK WHICH IS NOT PART OF THE RENOVATED OR EXPANDED BUILDING AREA REQUIRED TO CARRY OUT THE NEW WORK.
- DURING THE TENDER PERIOD, THE CONTRACTOR MUST PERFORM A SITE INSPECTION OF THE PLACE OF WORK AND SURROUNDINGS INCLUDING CEILING SPACE, AS WELL AS OTHER AREAS WHERE ACCESS WOULD BE CONSIDERED REASONABLE, AND MAKE A THOROUGH INVESTIGATION OF AS-BUILT CONDITIONS TO DETERMINE THE SCOPE OF DEMOLITION WORK REQUIRED PRIOR TO SUBMITTING THEIR TENDER PRICE. THE CONTRACTOR MAY NOT RELY ON THE CONTRACT DRAWINGS TO LIMIT THE SCOPE OF DEMOLITION WORK REQUIRED.
- MAINTAIN EXISTING FIRE ALARM SYSTEM OPERATIONAL AT ALL TIMES DURING THE DEMOLITION AND NEW CONSTRUCTION PERIOD. CONTRACTOR TO MAKE ARRANGEMENTS WITH FIRE ALARM MANUFACTURER TO HAVE A TECHNICAL REPRESENTATIVE ASSIGNED TO THE PROJECT TO CORRECT ANY DAMAGES OR EXTENSION TO THE SYSTEM.
- THE DEMOLITION CONTRACTOR SHALL COMPLETELY REMOVE EXISTING SERVICES (WIRES AND CONDUITS) BACK TO SOURCE IN THE RENOVATED AREA EXCEPT AS NOTED BUT AS REQUIRED FOR CONSTRUCTION. MAINTAIN EXISTING SERVICES WHICH PASS THROUGH THE AREA BUT WHICH FEED ITEMS NOT LOCATED IN THE RENOVATED AREA. POWER AND SYSTEMS SHUT-DOWNS MUST BE ARRANGED WITH AND AT A TIME CONVENIENT TO THE FACILITY. EQUIPMENT BEING REMOVED SHALL BE REVIEWED ON THE SITE WITH THE FACILITY'S MAINTENANCE DEPARTMENT AND IF THEY SO WISH BE DELIVERED TO AN AREA IN THE FACILITY AS DIRECTED. EQUIPMENT THAT THE FACILITY DOES NOT WANT SHALL BE REMOVED FROM THE SITE AS SCRAP BY THIS DIVISION. PROVIDE TEN DAYS WRITTEN NOTICE FOR THE POWER SHUT-DOWNS.
- WHERE ELECTRICAL SYSTEMS ARE BEING DEMOLISHED, ALL CONDUIT, WIRING, DEVICES AND BOXES ARE REMOVED UNLESS OTHERWISE NOTED. THE CONTRACTOR SHALL TRACE AND IDENTIFY ALL WIRING SYSTEMS UNCOVERED DURING DEMOLITION AND REMOVE REDUNDANT CONDUIT, BOXES AND WIRING.
- CONTRACTOR TO ENSURE THAT DURING DEMOLITION WORK COMPONENTS AND SIMILAR ITEMS TO BE RE-USED ARE PROTECTED FROM DAMAGE.
- CONTRACTOR IS RESPONSIBLE FOR CUTTING AND PATCHING OF THE BUILDING STRUCTURE REQUIRED DUE TO DEMOLITION OF EXISTING ELECTRICAL EQUIPMENT.

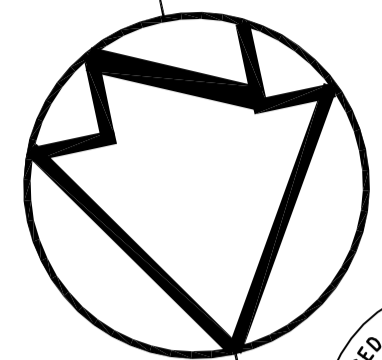
**GENERAL DEMOLITION NOTES:COMMUNICATION**

- CONTRACTOR TO ENSURE THAT ALL COMMUNICATION CABLES RUN IN FREE AIR AND CONDUITS WITH JUNCTION BOXES THAT RUN THROUGH THE SPACE MUST BE REMOVED AND RE-ROUTED FROM THE SPACE BEING RENOVATED.
- ALL ABANDONED CABLES IN THE CEILING SPACE THAT ARE STILL TERMINATED TO THE SIX BLOCK TERMINAL BOARD IN THE TELEPHONE ROOM MUST BE DISCONNECTED AND REMOVED FROM THE CEILING SPACE.
- OWNERS DESIGNATED COMMUNICATION CONTRACTOR SHALL DISCONNECT ALL UNUSED CABLES FROM SIX BLOCKS AND REMOVE CABLES IN THEIR ENTIRETY.

**NOTE RE: ELECTRICAL SAFETY**

WHEN WORKING ON ANY ELECTRICAL CIRCUIT FED FROM ANY POWER PANEL OR LIGHTING PANEL TO ENSURE MAXIMUM SAFETY FROM ELECTRICAL SHOCK PROVIDE AT THE FEEDER DEVICE I.E. POWER PANEL OR LIGHTING PANEL THE FOLLOWING:

- SUITABLE, CLEAR WARNING SIGNS
  - HAND-WRITTEN INFORMATION SHEET IDENTIFYING NAME OF CONTRACTOR, DATE, LOCATION OF WORK AND ANTICIPATED TIME OF COMPLETION. DISPLAY THIS IN A VISIBLE LOCATION AND REMOVE ONLY WHEN THE CIRCUIT IS RE-ENERGIZED.
- THE ELECTRICAL CONTRACTOR UNDER DIVISION 26 WILL DISCONNECT ALL WIRING AND CONDUITS FROM EXISTING PANELS. CIRCUITS THAT ARE INTENDED FOR RE-USE WILL HAVE THEIR BREAKERS LOCKED OFF. ALL DISCONNECTED WIRING SHALL BE MADE SAFE.



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2151316  
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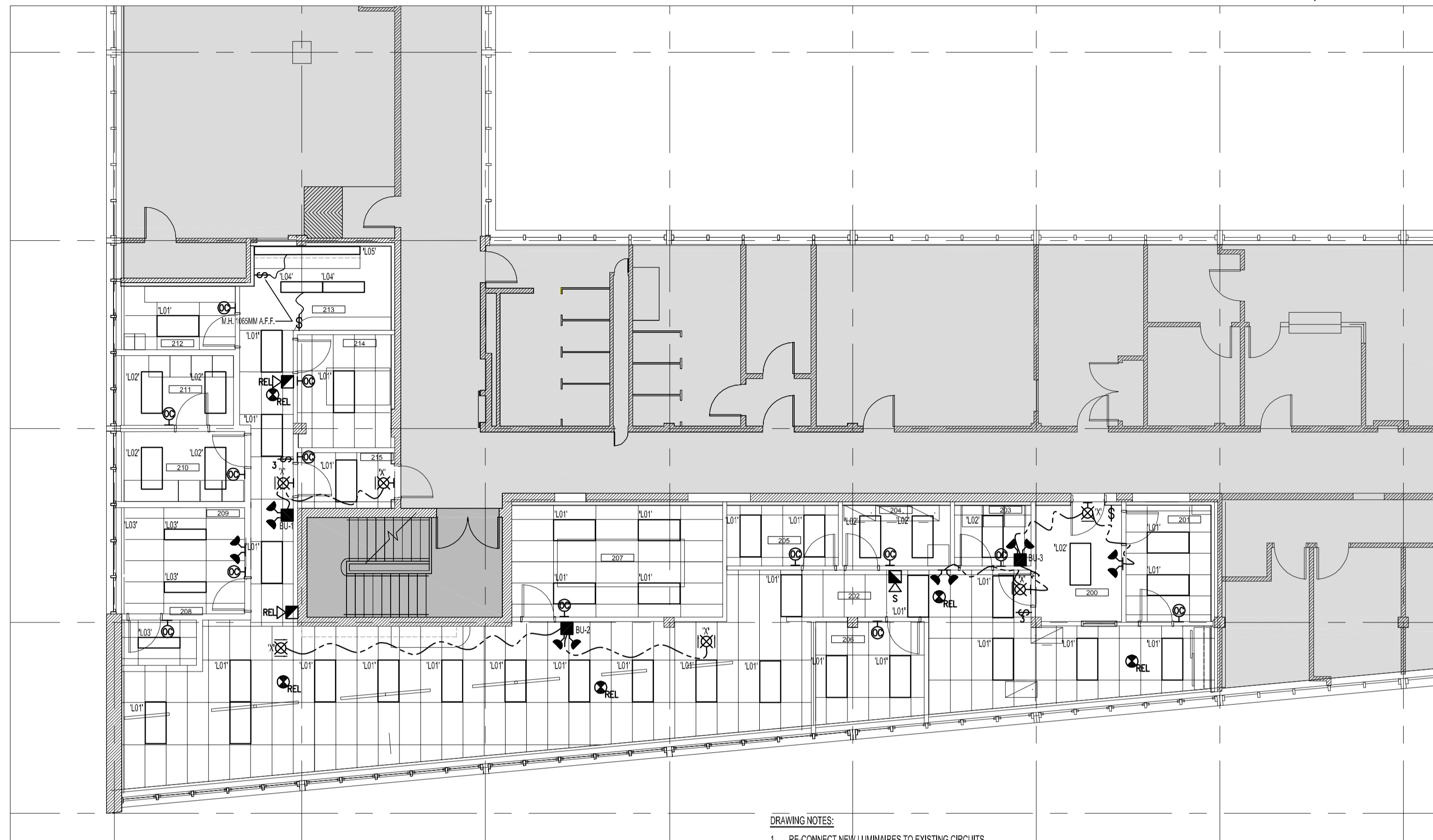
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**FIT UP FOR A PUBLIC SAFETY**  
**CLIENT SARNIA, ONTARIO**

drawing title  
titre du dessin  
**ELECTRICAL LEGEND AND**  
**DETAILS**

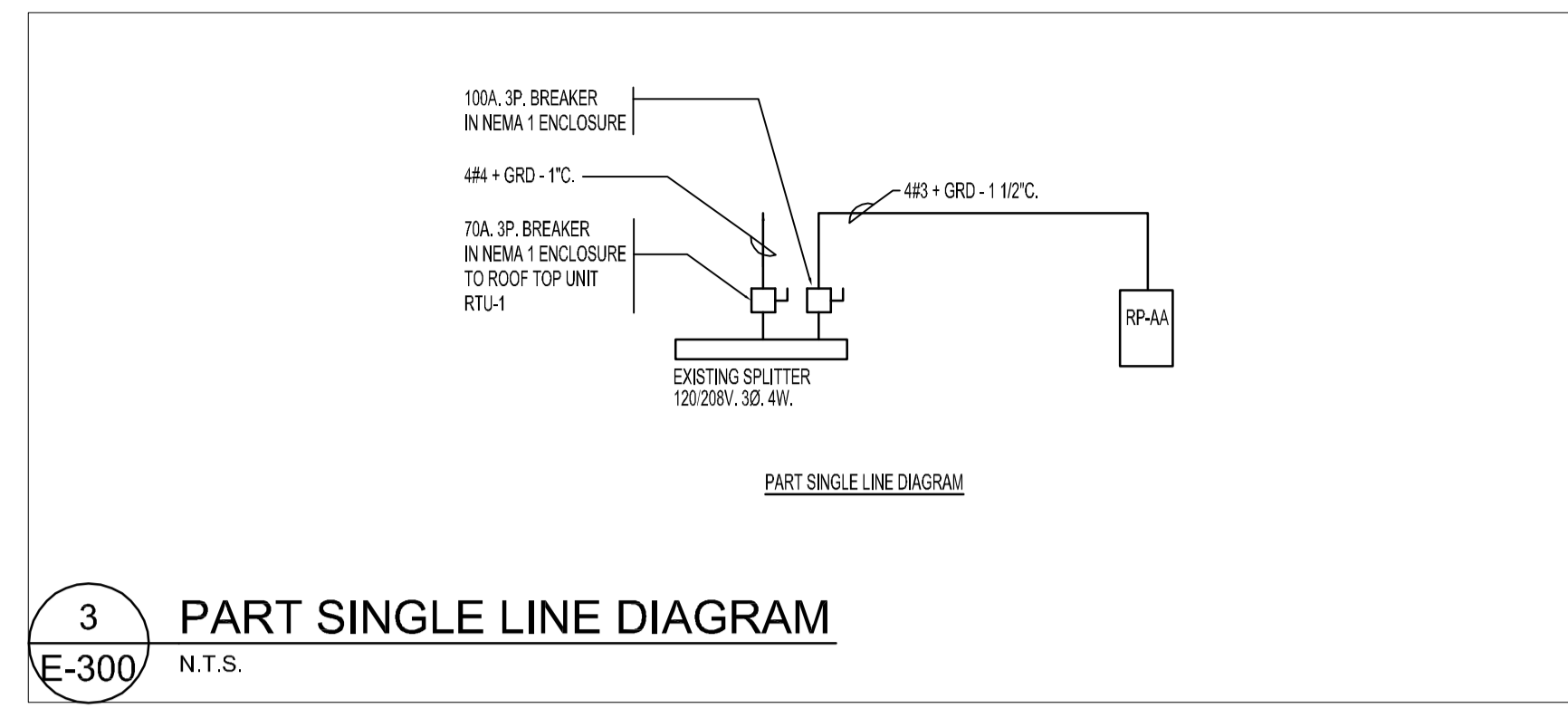
drawn by dessiné par	ME	
designed by conç par	L.G.W.	
approved by approuvé par	L.G.W.	
bid offre	A.MENIKGAMA	project manager administrateur de projets
project date date du projet	2015-12-17	
project no. no. du projet	R.073089.040 R.073089.052	
drawing no. dessiné no.	E200	



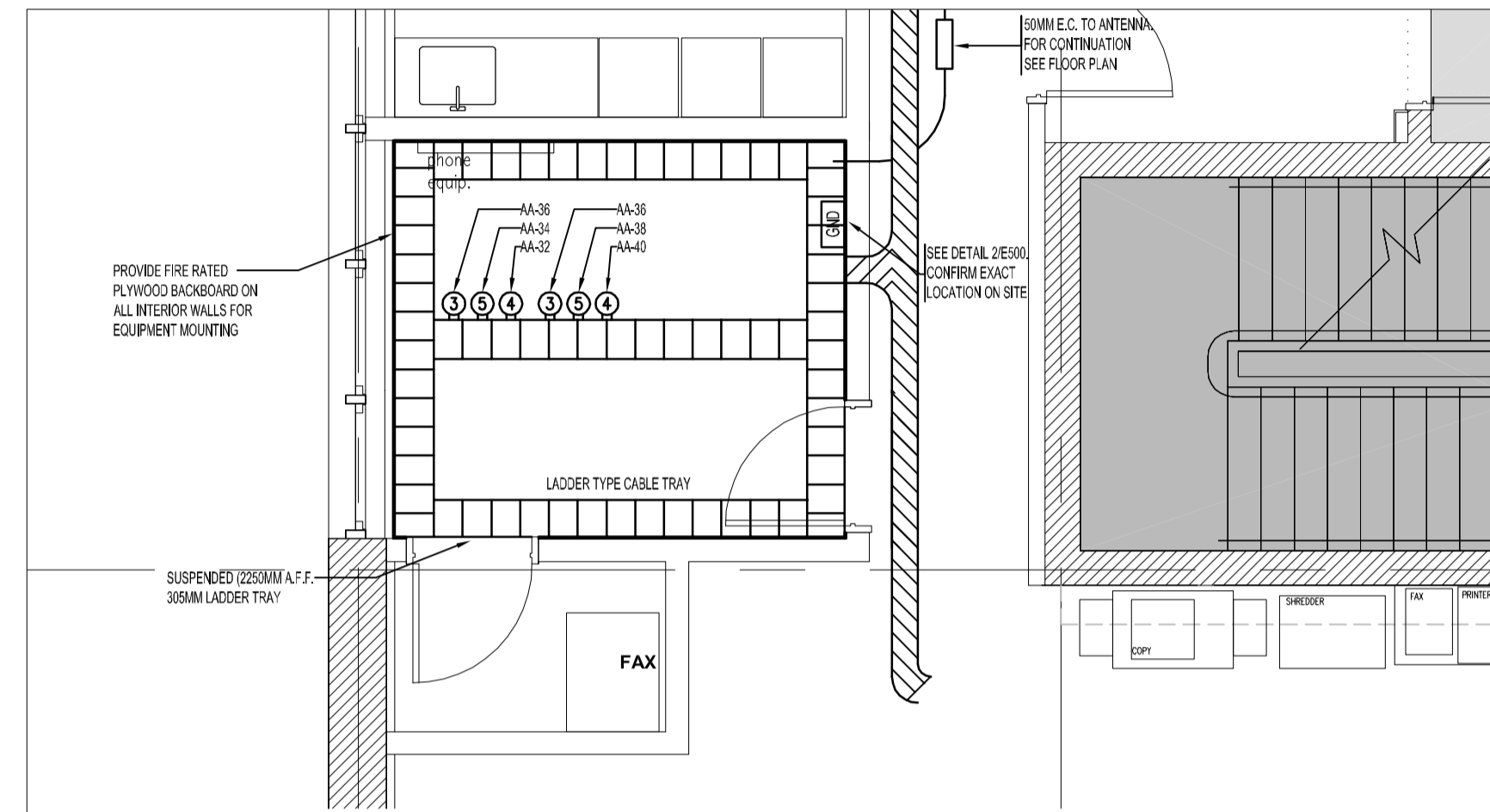


**2 NEW PLAN - LIGHTING AND FIRE ALARM LAYOUT**  
E-300 1:100

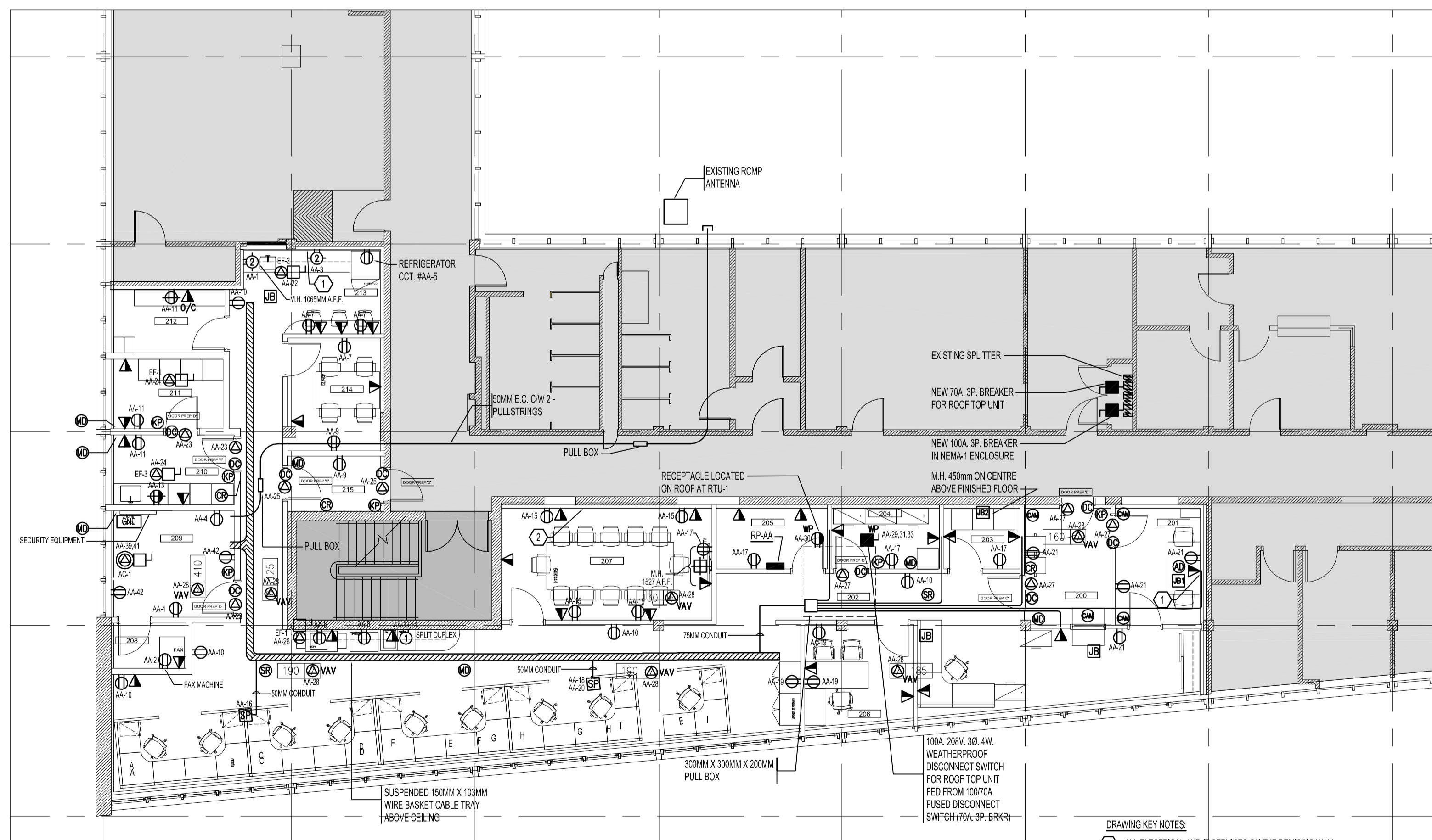
- DRAWING NOTES:**
- RE-CONNECT NEW LUMINAIRES TO EXISTING CIRCUITS MADE AVAILABLE BY THIS RENOVATION
  - CONNECT NEW EMERGENCY BATTERY UNITS AND EXIT LIGHTS TO EXISTING EMERGENCY CIRCUITS MADE AVAILABLE BY THIS RENOVATION.



**3 PART SINGLE LINE DIAGRAM**  
E-300 N.T.S.



**4 TELECOMMUNICATIONS ROOM EQUIPMENT DETAIL**  
E-300 1:50

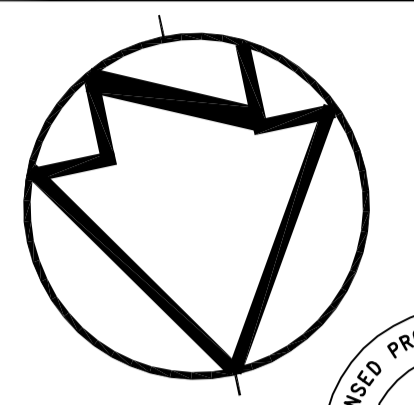


**1 NEW PLAN - POWER AND SYSTEMS LAYOUT**  
E-300 1:100

- DRAWING KEY NOTES:**
- ALL ELECTRICAL AND IT SERVICES ON THE DENIMIS WALL BETWEEN THE SUITES TO BE SURFACE MOUNTED.
  - ALL ELECTRICAL AND IT SERVICES ON THIS WALL ARE TO BE CONCEALED IN PARTITION WALL BETWEEN SUITES AND CORRIDOR.

DESCRIPTION	No. OF REC	No. OF FIXT	BRKR SIZE	LOAD PER PHASE			PHASE			LOAD PER PHASE			BRKR SIZE	No. OF REC	No. OF FIXT	DESCRIPTION	
				A	B	C	A	B	C	A	B	C					
				RP-AA			RP-AA			RP-AA							
ROOM #213 (SF)	1		20A				1					20A	1		ROOM #218 (FAX MACHINE)		
ROOM #213 (SF)	1		20A				3					20A	2		ROOM #209		
ROOM #213 (FRIDGE)	1		20A				5					20A	1		OPEN OFFICE (PHOTOCOPIER)		
ROOM #213, 214	3		20A				7					20A	1		OPEN OFFICE (SHREDDER)		
ROOM #214, 215	2		20A				9					20A	5		COOP. RM #213, OPEN OFFICE		
ROOM #210, 211, 212	3		20A				11					15A, 2P	1		OPEN OFFICE (SPLIT DUPLEX)		
ROOM #210 (SF)	1		20A				13					14					
ROOM #207	3		20A				15					16			OPEN OFFICE SERVICE POLE		
ROOM #205, 204, 205, 207	4		20A				17					18			OPEN OFFICE SERVICE POLE		
ROOM #206, 215	3		20A				19					20			OPEN OFFICE SERVICE POLE		
ROOM #200, 201, 202	4		20A				21					22			ROOM #213 (EF-2)		
ROOM #208, 210, 211 (DOORS)	3		15A				23					24			ROOM #211, #210 (EF-1, EF-3)		
ROOM #215 (DOORS)	2		15A				25					26			OPEN OFFICE (EF-1)		
ROOM #200, 201, 204 (DOORS)	4		15A				27					28			VIV VOICES		
A/C UNIT (ON ROOF)	1		70A, 3P				29					30			A/C UNIT (SF) (ON ROOF)		
							31					32			ROOM #209 (F)		
							33					34			ROOM #209 (F)		
SPARE			20A				35					36			ROOM #209 (T)		
SPARE			20A				37					38			ROOM #209 (F)		
							39					40			ROOM #209 (F)		
ROOM #209 (A/C UNIT)	1		20A, 2P				41					42			ROOM #209		
SUB TOTAL													SUB TOTAL				
TOTAL PER PHASE				PHASE A =			PHASE B =			PHASE C =			KWH CONNECTED				

**5 PANEL RP-AA SCHEDULE**  
E-300 N.T.S.



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revision	date
05	SUBMITTED FOR TENDER 2016/10/07
04	SUBMITTED FOR 99% CLIENT REVIEW 2016/09/02
03	SUBMITTED FOR 66% CLIENT REVIEW 2017/07/15
02	SUBMITTED FOR 66% CLIENT REVIEW 2016/03/30
01	SUBMITTED FOR 66% CLIENT REVIEW 2016/01/20

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project title  
titre du projet  
**Ontario**  
**105 CRISTINA STREET SOUTH**  
**FIT UP FOR A PUBLIC SAFETY CLIENT SARNIA, ONTARIO**

drawing title  
titre du dessin  
**NEW FLOOR PLAN AND REFLECTED CEILING PLAN ELECTRICAL**

drawn by  
dessiné par **ME**

designed by  
conçue par **L.G.W.**

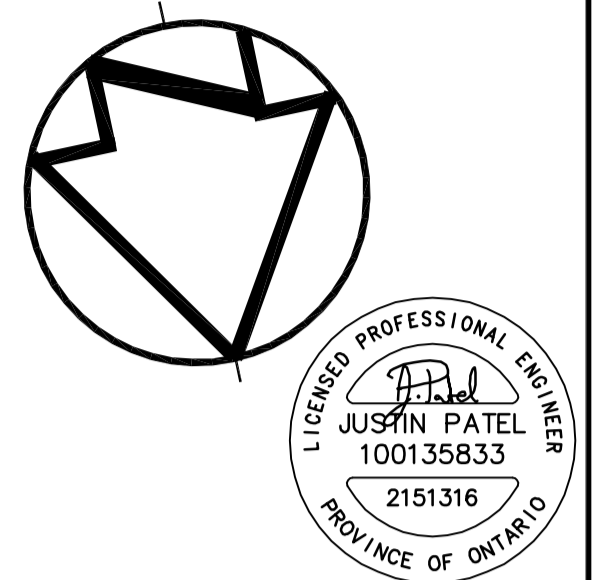
approved by  
approuvé par **L.G.W.**

bid offre **A.MENIKGAMA** project manager administrateur de projets

project date  
date du projet **2015-12-17**

project no.  
no. du projet **R.073089.040**  
**R.073089.052**

drawing no.  
dessiné no. **E300**



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project title / titre du projet: Ontario  
105 CRISTINA STREET SOUTH  
FIT UP FOR A PUBLIC SAFETY CLIENT SARNIA, ONTARIO

drawing title / titre du dessin: SECURITY DETAILS

drawn by / dessiné par: ME  
designed by / conçu par: L.G.W.  
approved by / approuvé par: L.G.W.

bid / offre: A.MENIKGAMA project manager / administrateur de projets

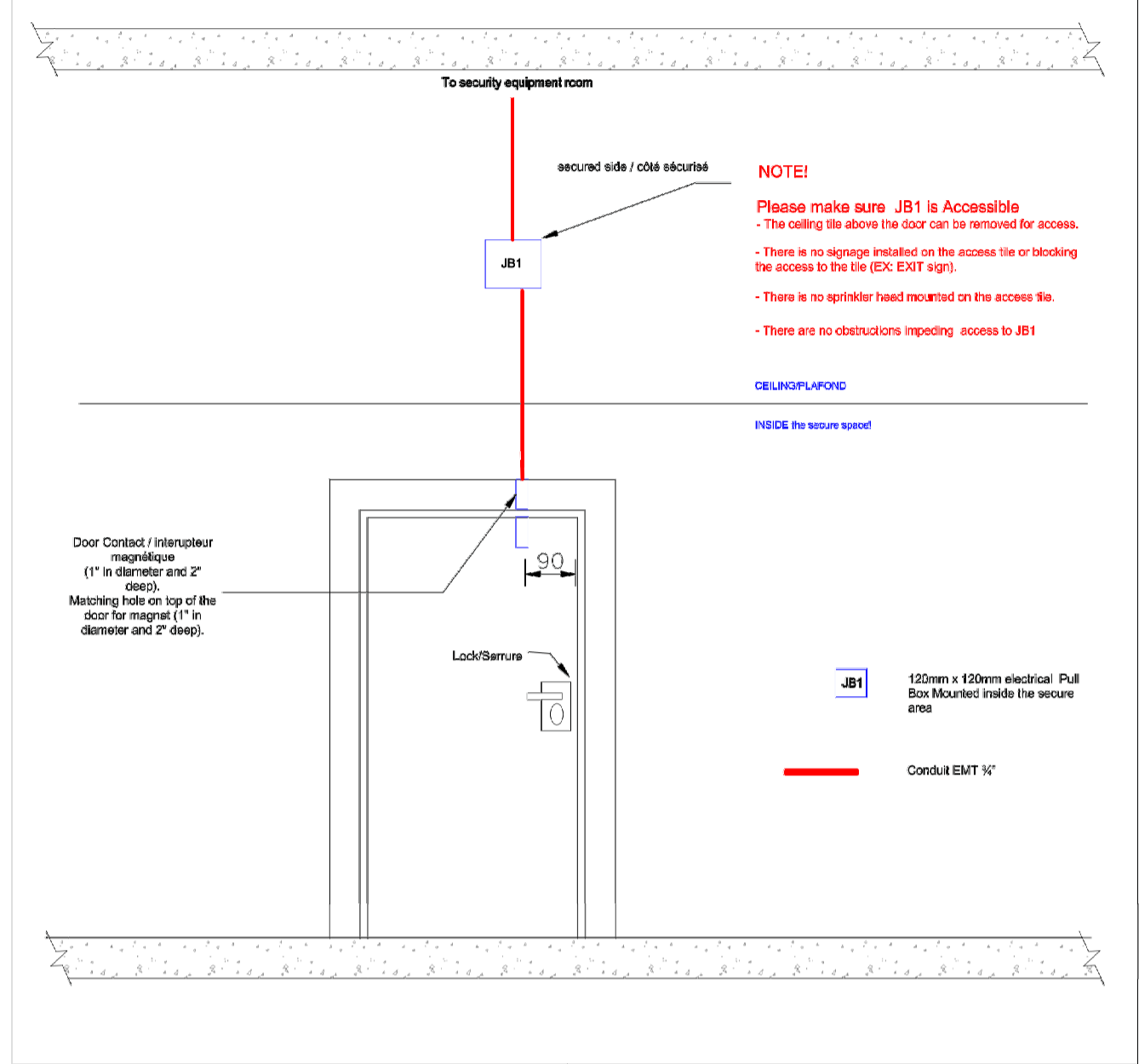
project date / date du projet: 2015-12-17

project no. / no. du projet: R.073089.040  
R.073089.052

drawing no. / numéro de dessin: E400

Security Door " B " / Porte Sécuritaire " B "

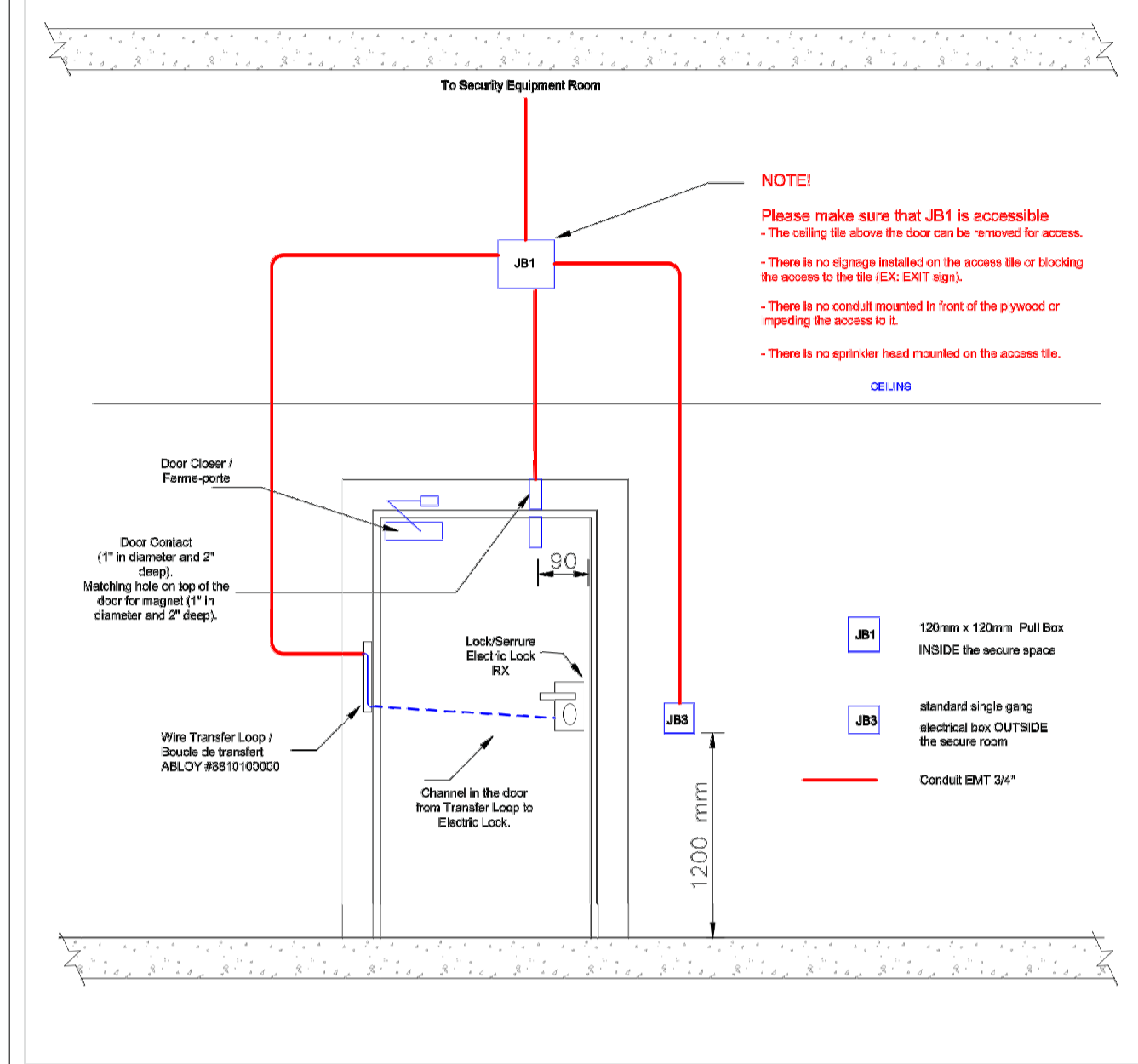
Door With Door Contact Only / Porte avec un interrupteur magnétique



Security Door " B " / Porte Sécuritaire " B "

Security Door " C " / Porte Sécuritaire " C "

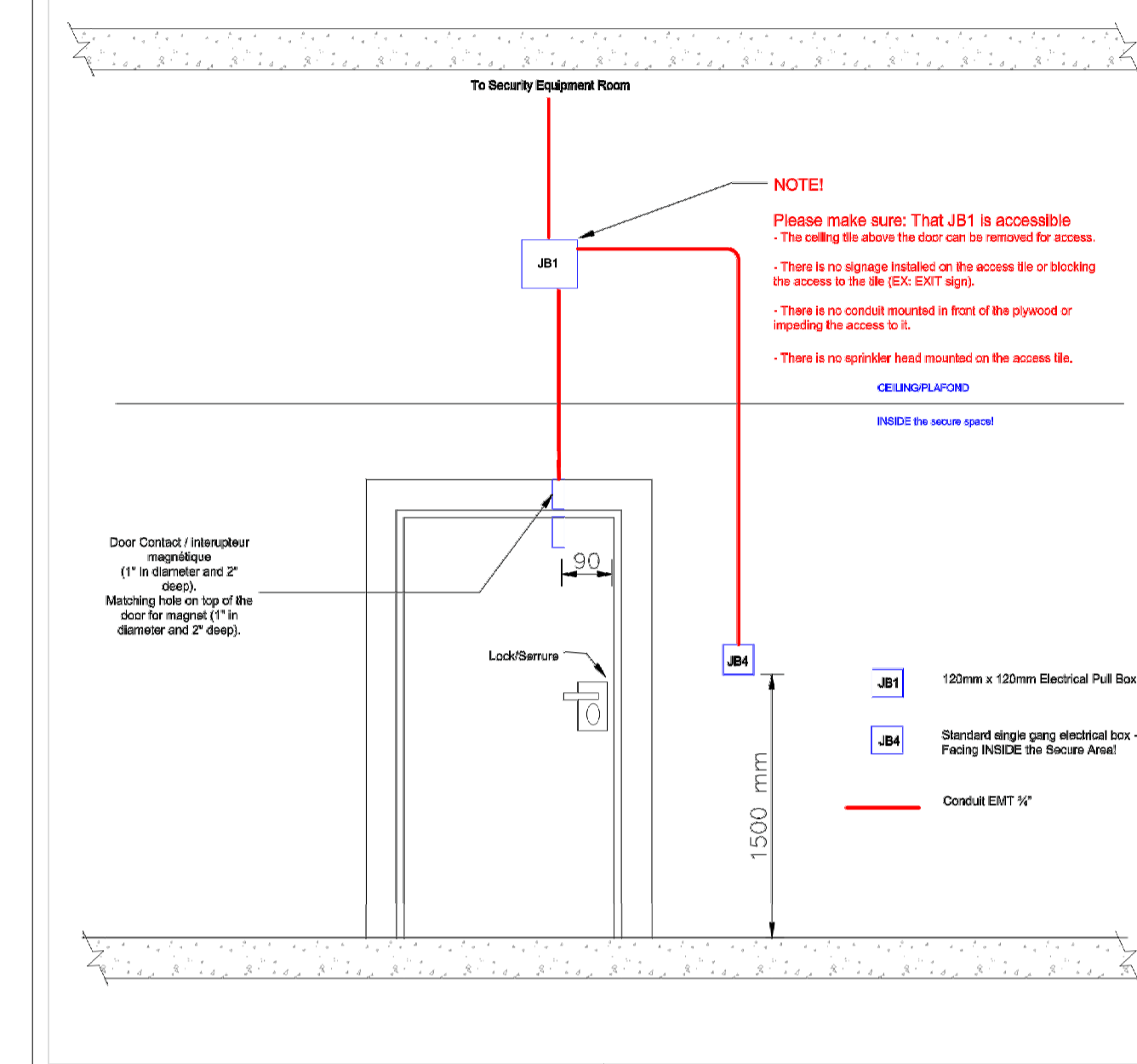
Door With Card Access / Porte avec Lecteur de Cartes



Security Door " C " / Porte Sécuritaire " C "

Security Door " D " / Porte Sécuritaire " D "

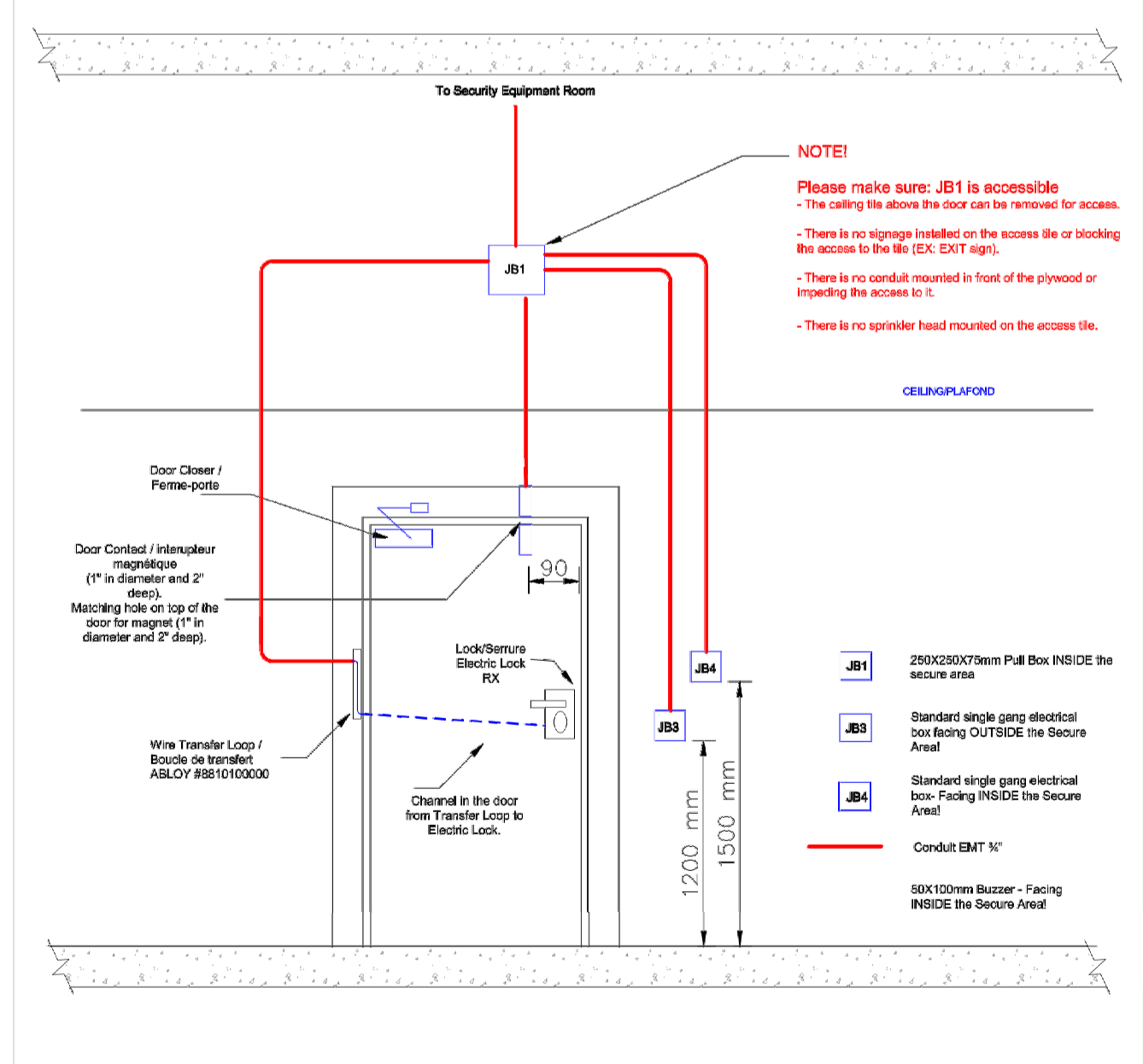
Door With Keypad / Porte avec Clavier Numérique



Security Door " D " / Porte Sécuritaire " D "

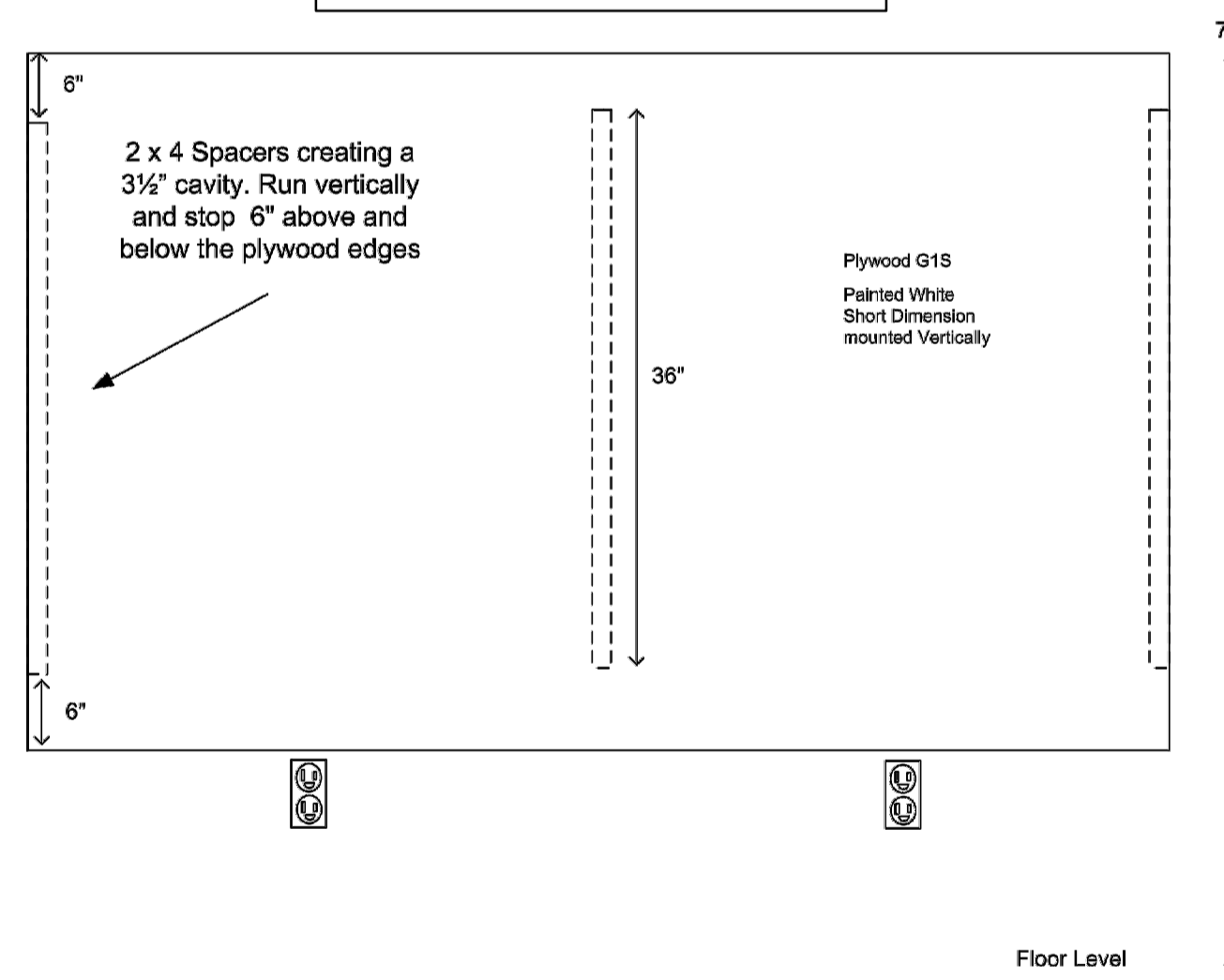
Security Door " E " / Porte Sécuritaire " E "

Door With Card Access and Keypad / Porte avec Lecteur de Cartes et Clavier Numérique



Security Door " E " / Porte Sécuritaire " E "

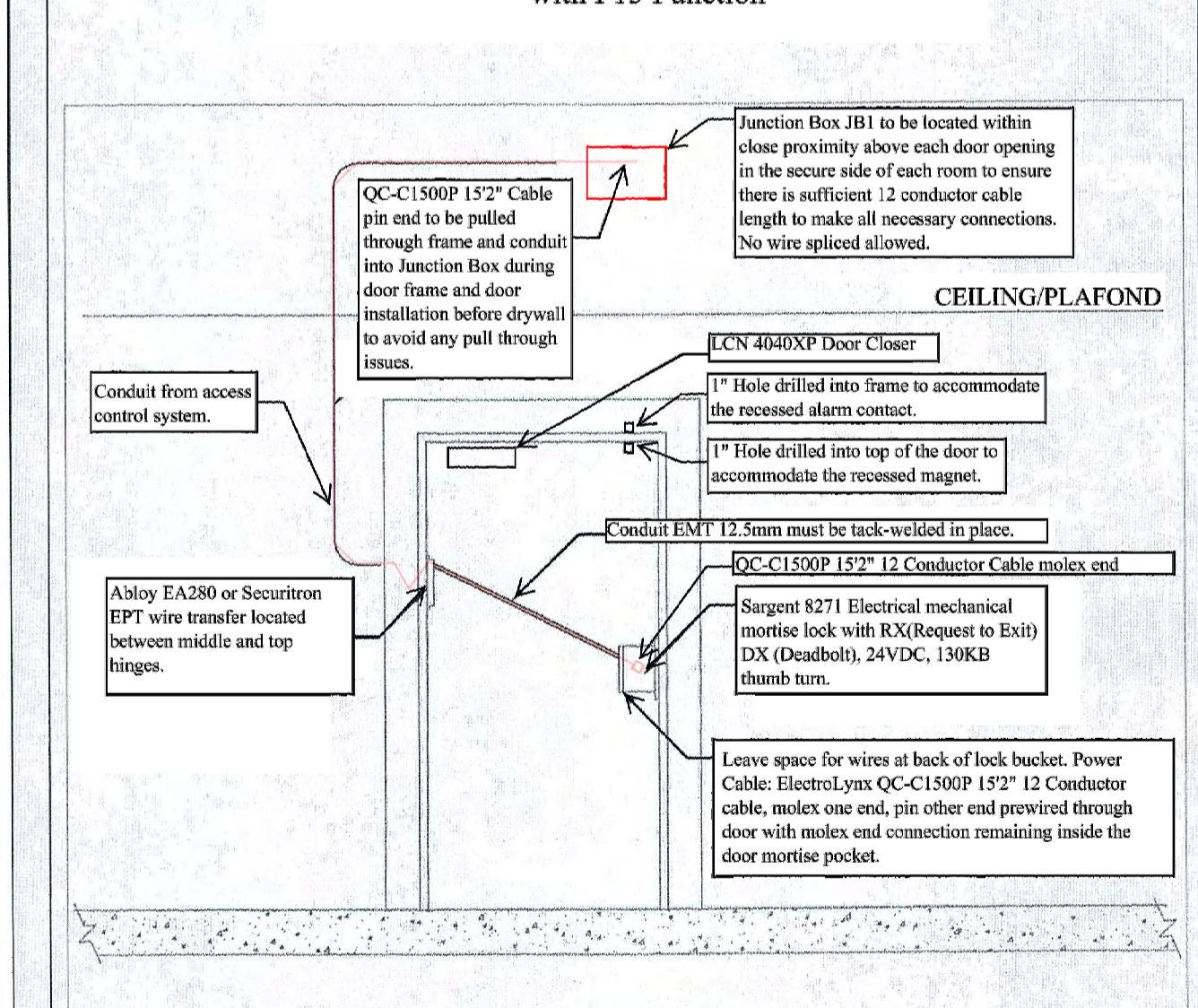
- DRAWING GENERAL NOTES:**  
1. ALL CABLES TO BE PLENUM RATED FIBER CABLES SUPPORTED ON 2" HOOKS.  
2. SECURITY EQUIPMENT IS LOCATED IN ROOM No. 208.



Typical Equipment Room Wall Preparation for Security Equipment

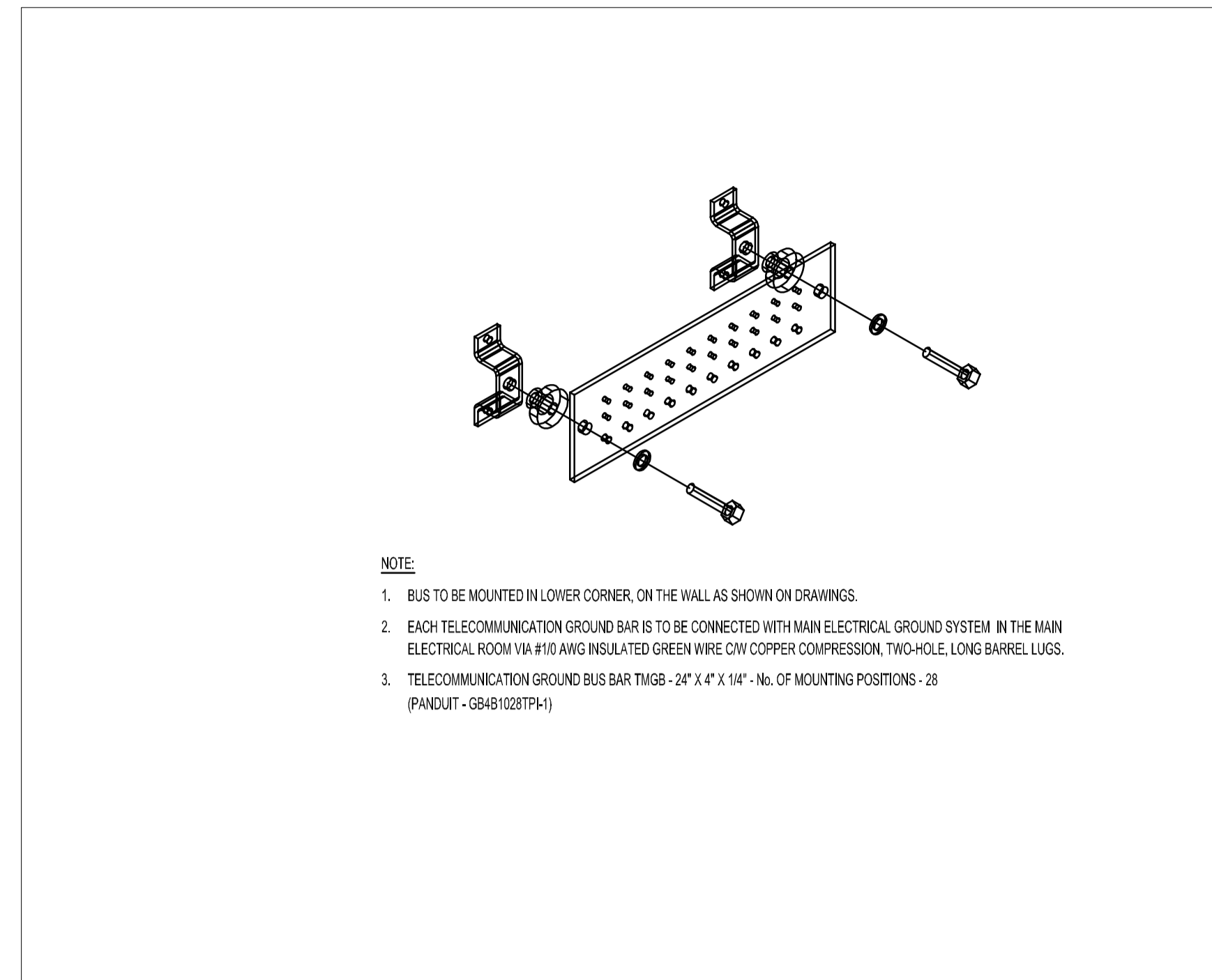
Var 1	10-11-18
Protective Technical Services	

Door With Card Access with F15 Function

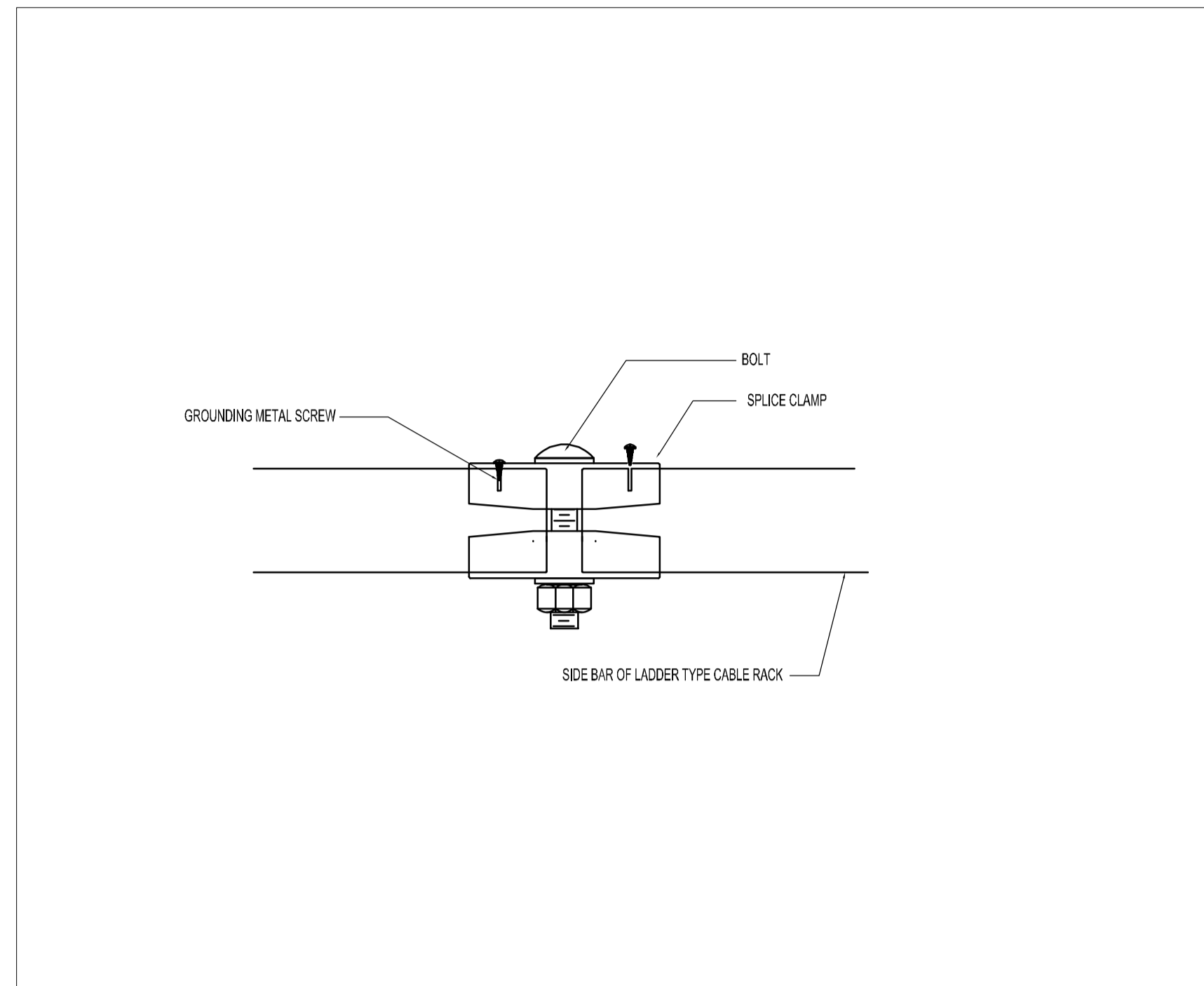


- Notes:**
- Door(s) must be commercial grade, hollow metal doors with 16 gauge steel faces and steel stiffeners.
  - Conduit must be installed at factory and secured inside door.
  - No on-site conduit installations.
  - Frame must have continuously welded seams.
  - Top and bottom edges must be flush channel, or flush closing channel, type.
  - All door and frame reinforcement must be done at factory (eg. hinge, lock, door closer etc.).
  - Exterior doors must be insulated.
  - ElectroLynx QC-C1500P 152" 12 Conductor Power cable to be prewired at the factory.
  - Wire Transfer to be pre-fitted and pocketed to the door and corresponding frame prep completed at the factory.

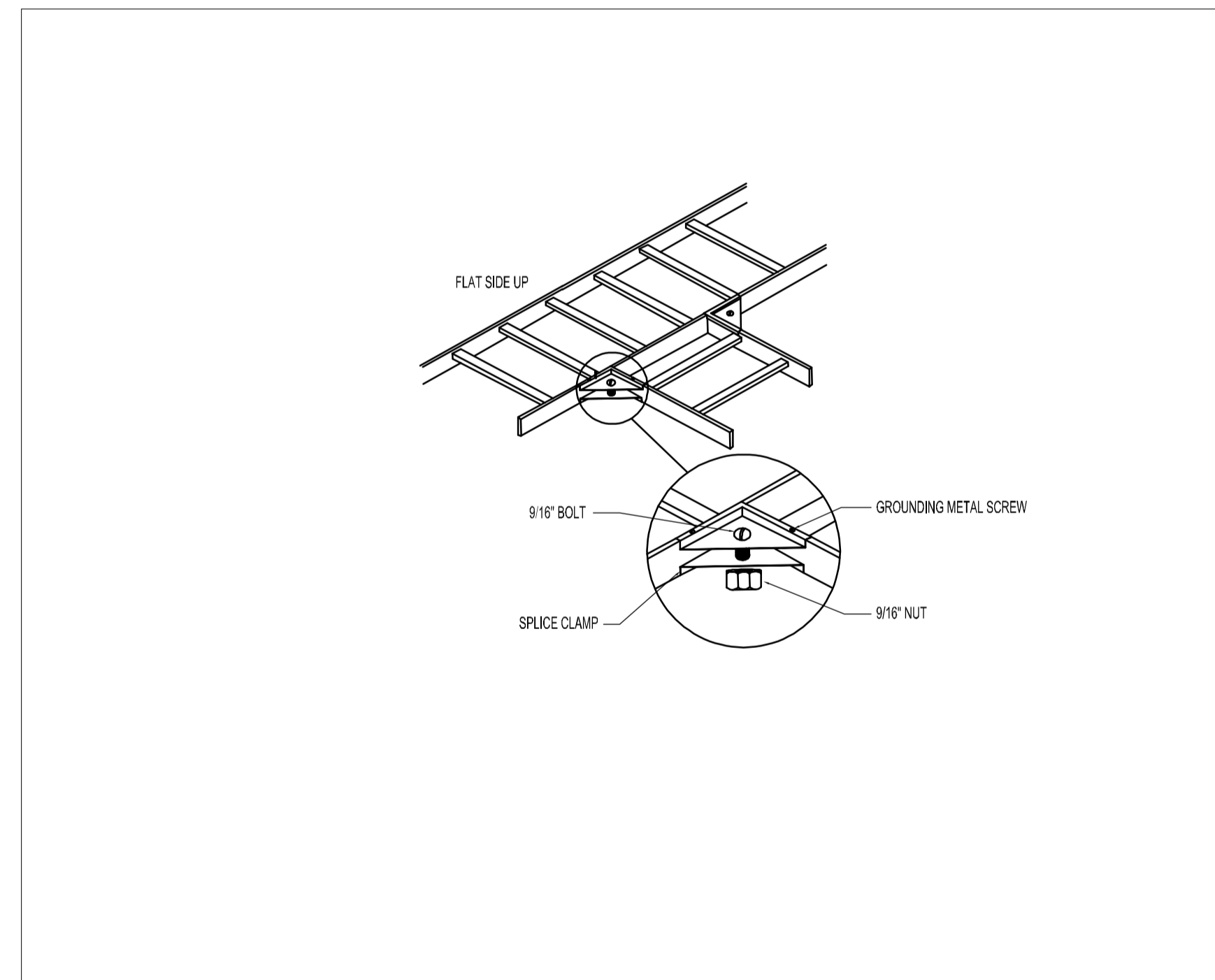
DESIGN & DRAWN BY: M.A.D. CHECKED BY: PTSS APP'D BY: PTSS DATE: 2015-03-31 DRAWING NO. / titre No.:



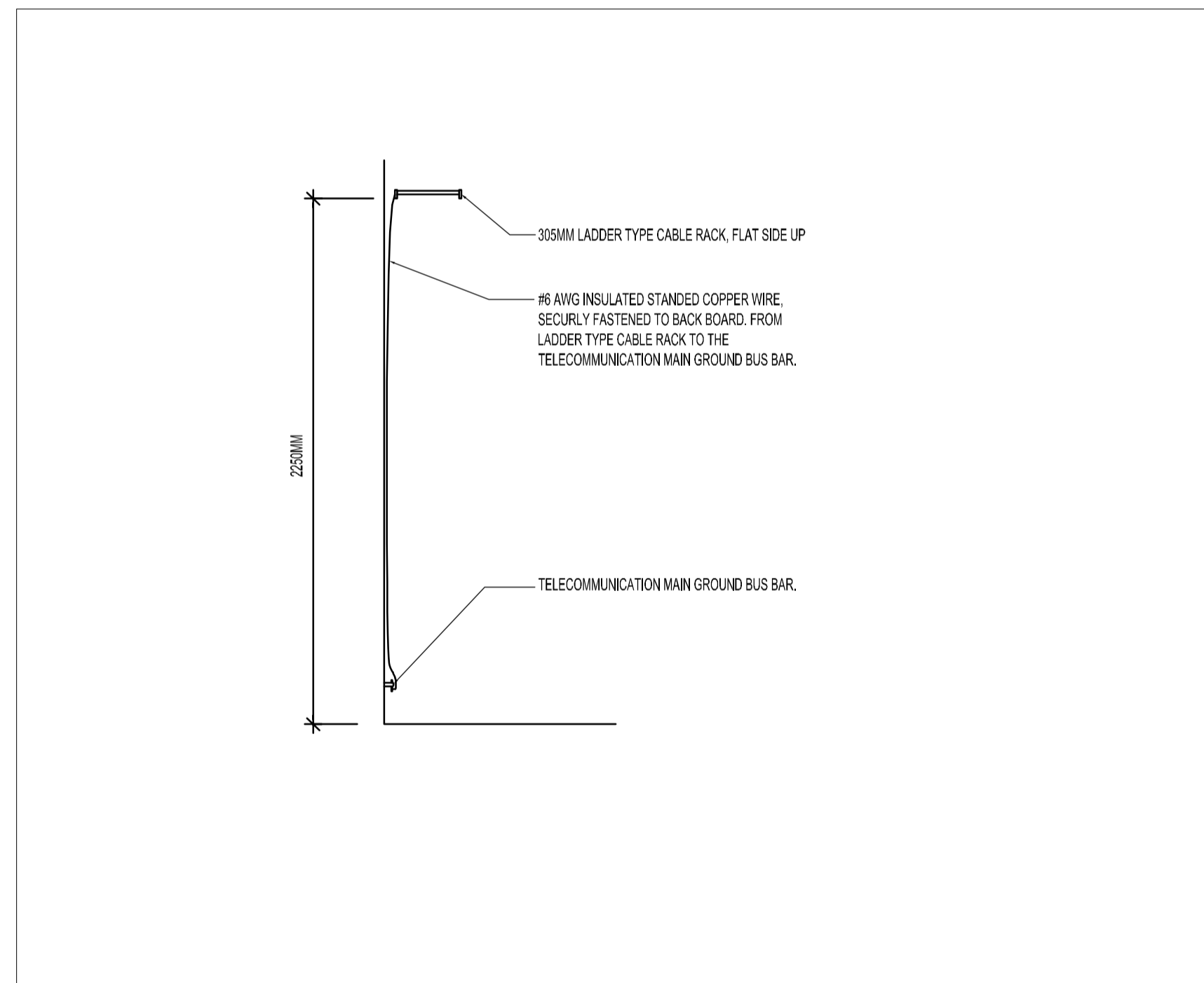
**2 TELECOMMUNICATION GROUND BUS BAR**  
E-500 N.T.S.



**3 SPLICE CLAMP INSTALLATION DETAIL FOR LADDER RACK**  
E-500 N.T.S.



**1 CORNER CLAMP INSTALLATION DETAIL FOR LADDER RACK**  
E-500 N.T.S.

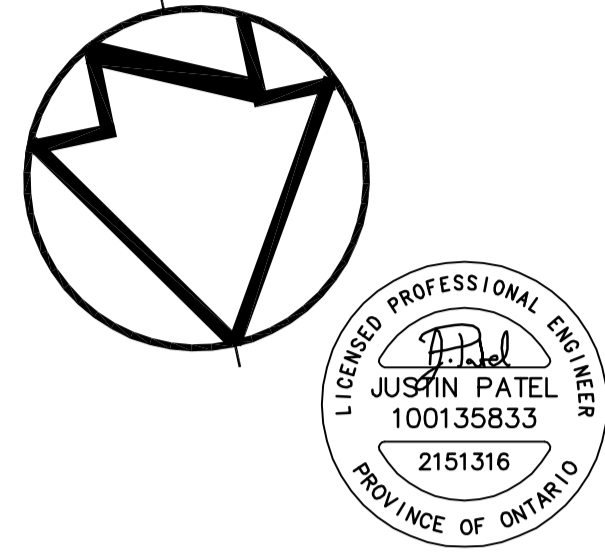


**4 LADDER RACK HEIGHT DETAIL**  
E-500 N.T.S.

**GENERAL DRAWING NOTES:**

- ALL CABLES TO BE PLENUM RATED FT6 CABLES SUPPORTED ON 1" HOOKS FROM BUILDING STRUCTURE.
- ONCE ALL CABLES HAVE BEEN PULLED IN, CONTRACTOR TO ENSURE THAT CONDUITS ARE TEMPORARILY SEALED TO PREVENT THE INFILTRATION OF SMOKE IN THE EVENT THERE IS FIRE.
- CONTRACTOR TO ENSURE THAT INSULINERS ARE USED TO PROTECT COMMUNICATION CABLES THAT ARE RUN FROM THE CABLE TRAY TO CONDUITS STUBBED UP IN WALLS TO DEVICES. CONDUITS 50mm AND LARGER MUST BE FITTED WITH CABLE CONNECTORS AND PLASTIC BUSHINGS.

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**FIT UP FOR A PUBLIC SAFETY CLIENT SARNIA, ONTARIO**

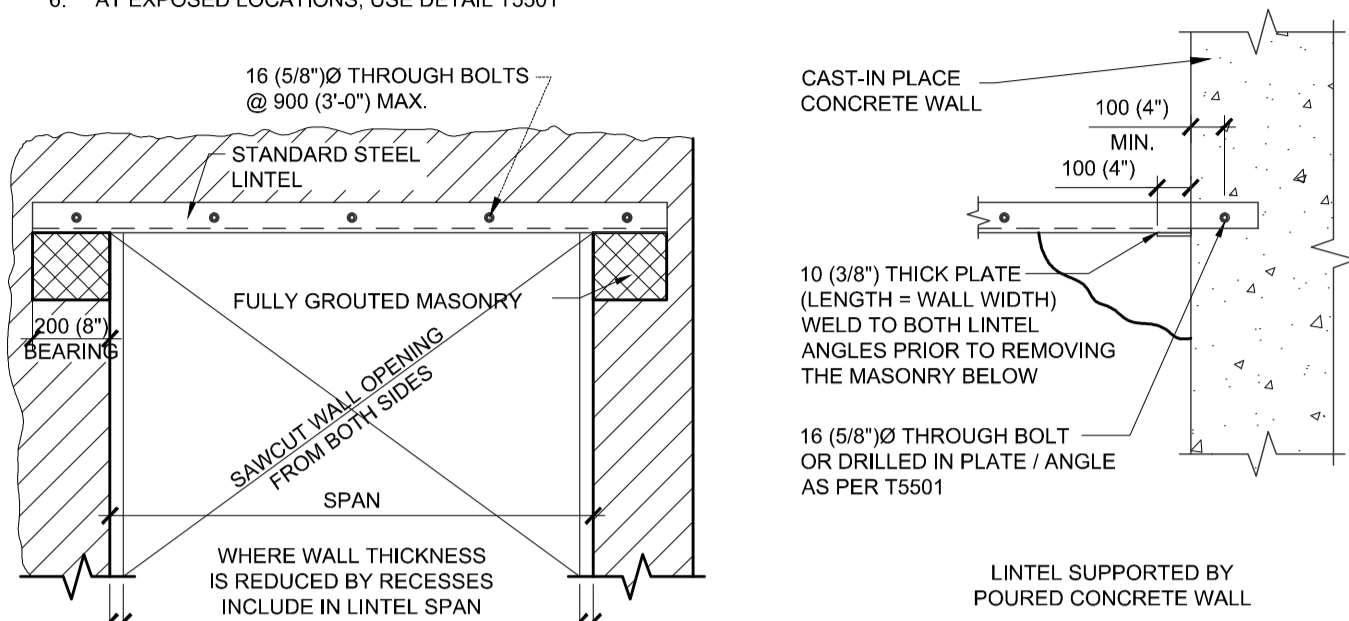
drawing title  
titre du dessin  
**TELECOMMUNICATION DETAILS**

drawn by dessiné par	ME
designed by conçu par	L.G.W.
approved by approuvé par	L.G.W.
bid offre	A.MENIKGAMA project manager administrateur de projets
project date date du projet	2015-12-17
project no. no. du projet	R.073089.040 R.073089.052
drawing no. dessiné no.	E500



NOTES:

1. PROVIDE SHORING AND BRACING AS REQUIRED.
2. GROUT MASONRY AT SUPPORTS PRIOR TO SAWCUTTING.
3. PROVIDE STEEL PACKING AS REQUIRED TO PROVIDE EVEN BEARING OF STEEL LINTELS.
4. STANDARD LINTELS ARE NOT NECESSARILY SHOWN ON STRUCTURAL DRAWINGS, REFER TO ARCHITECTURAL, MECHANICAL AND ELECTRICAL DRAWINGS FOR OPENING LOCATIONS.
5. SEE PLANS FOR SPECIAL LINTELS.
6. AT EXPOSED LOCATIONS, USE DETAIL T5501



WALL THICKNESS	SPAN	ANGLE SIZE	DETAIL
140 (6")	UP TO 1200 (4'-0")	2-64 x 64 x 6.4	
	1200 (4'-0") TO 1800 (6'-0")	2-89 x 64 x 6.4	
	1800 (6'-0") TO 2400 (8'-0")	---	
	2400 (8'-0") TO 3000	---	
190 (8")	UP TO 1200 (4'-0")	2-76 x 89 x 6.4	
	1200 (4'-0") TO 1800 (6'-0")	2-89 x 89 x 6.4	
	1800 (6'-0") TO 2400 (8'-0")	2-102 x 89 x 7.9	
	2400 (8'-0") TO 3000	2-152 x 89 x 7.9	
240 (10")	UP TO 1200 (4'-0")	2-76 x 102 x 6.4	
	1200 (4'-0") TO 1800 (6'-0")	2-102 x 102 x 6.4	
	1800 (6'-0") TO 2400 (8'-0")	2-102 x 102 x 9.5	
	2400 (8'-0") TO 3000	2-152 x 102 x 9.5	
290 (12")	UP TO 1200 (4'-0")	2-89 x 152 x 7.9	
	1200 (4'-0") TO 1800 (6'-0")	2-102 x 152 x 7.9	
	1800 (6'-0") TO 2400 (8'-0")	2-102 x 152 x 9.5	
	2400 (8'-0") TO 3000	2-152 x 152 x 9.5	

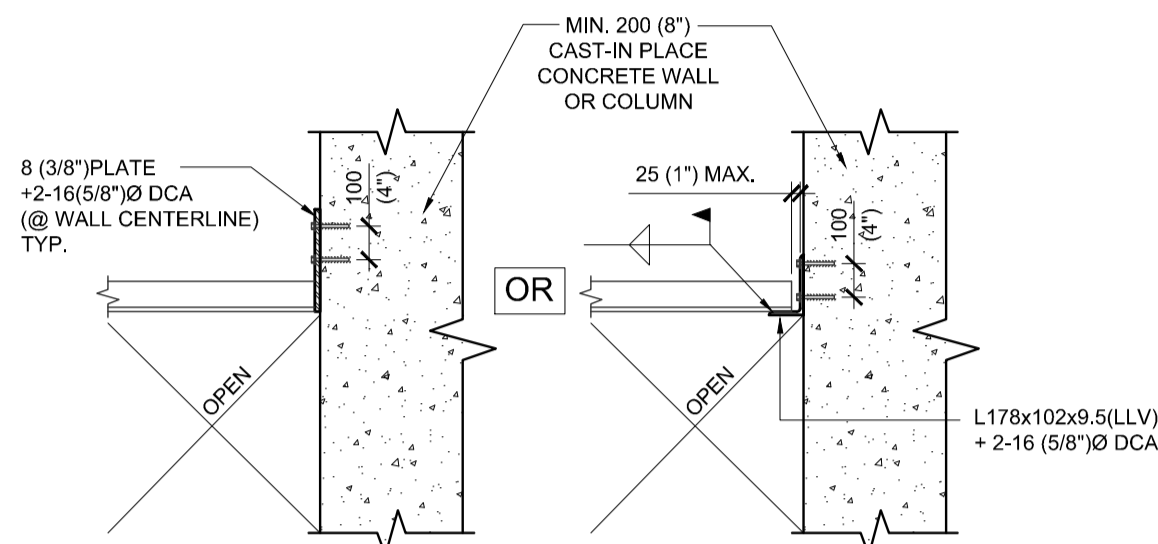
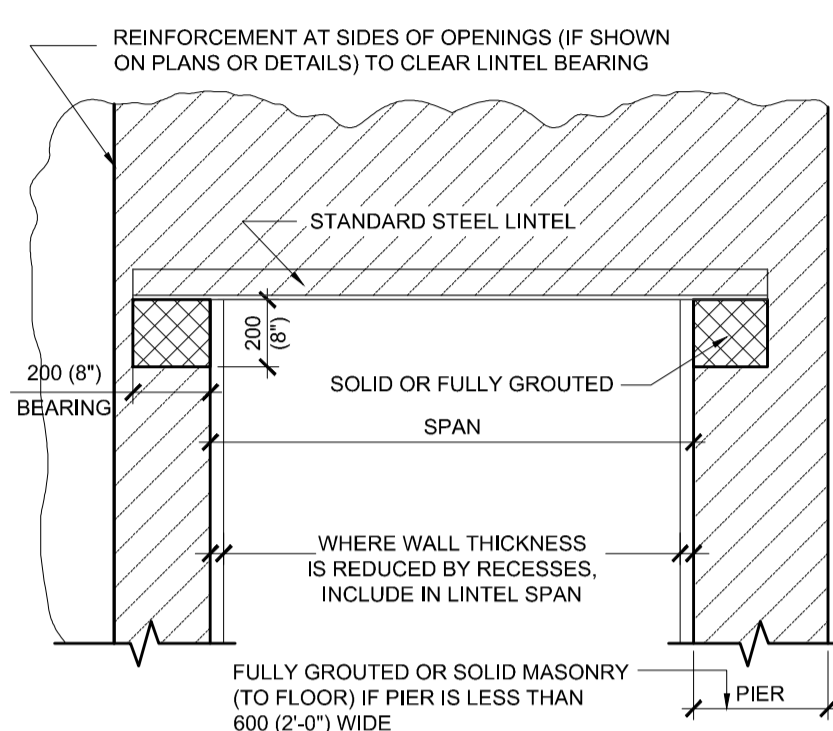
STANDARD STEEL LINTELS IN EXISTING NON LOAD BEARING WALLS

T5502

DEC 13

NOTES:

1. CONNECT BACK TO BACK DOUBLE ANGLES USING MIN. 16 (5/8 inch) BOLTS @ 450 (1'-6 inch) MAX. OR BY WELDING @ TOP & BOTTOM USING 6mm (1/4 inch) WELDS x 50 (2 inch) LG. @ 450 (1'-6 inch) MAX. LOCATE FIRST CONNECTION MAX. 75 (3 inch) FROM END OF LINTEL.
2. PROVIDE STEEL PACKING AS REQUIRED TO ENSURE EVEN BEARING OF STEEL LINTELS.
3. STANDARD LINTELS ARE NOT NECESSARILY SHOWN ON STRUCTURAL DRAWINGS, REFER TO ARCHITECTURAL, MECHANICAL AND ELECTRICAL DRAWINGS FOR OPENING LOCATIONS.
4. SEE PLANS FOR SPECIAL LINTELS.



LINTEL SUPPORTED BY POURED CONCRETE WALL

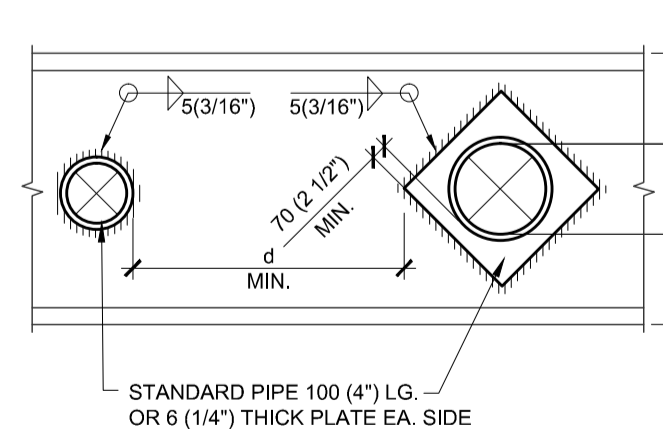
WALL THICKNESS	SPAN	ANGLE SIZE	DETAIL
90 (4") VENEER	UP TO 1200 (4'-0")	89x89x6.4	
	1200 (4'-0") TO 1800 (6'-0")	127x89x6.4	
	1800 (6'-0") TO 2400 (8'-0")	127x89x6.4	
	2400 (8'-0") TO 3000 (10'-0")	152x89x9.5	
140 (6")	UP TO 1200 (4'-0")	2-64x64x6.4	
	1200 (4'-0") TO 1800 (6'-0")	2-89x64x6.4	
	1800 (6'-0") TO 2400 (8'-0")	2-89x64x7.9 w/ 100x10 PLATE	
	2400 (8'-0") TO 3000 (10'-0")	---	
190 (8")	UP TO 1200 (4'-0")	2-76x89x6.4	
	1200 (4'-0") TO 1800 (6'-0")	2-89x89x6.4	
	1800 (6'-0") TO 2400 (8'-0")	2-102x89x7.9	
	2400 (8'-0") TO 3000 (10'-0")	2-152x89x7.9	
240 (10")	UP TO 1200 (4'-0")	2-76x102x6.4	
	1200 (4'-0") TO 1800 (6'-0")	2-102x102x6.4	
	1800 (6'-0") TO 2400 (8'-0")	2-102x102x9.5	
	2400 (8'-0") TO 3000 (10'-0")	2-152x102x7.9	
290 (12")	UP TO 1200 (4'-0")	3-76x89x6.4	
	1200 (4'-0") TO 1800 (6'-0")	3-89x89x6.4	
	1800 (6'-0") TO 2400 (8'-0")	3-102x89x7.9	
	2400 (8'-0") TO 3000 (10'-0")	3-127x89x7.9	

STANDARD STEEL LINTELS IN NON LOAD BEARING WALLS

SEE T4101 FOR STANDARD MASONRY LINTELS

T5501

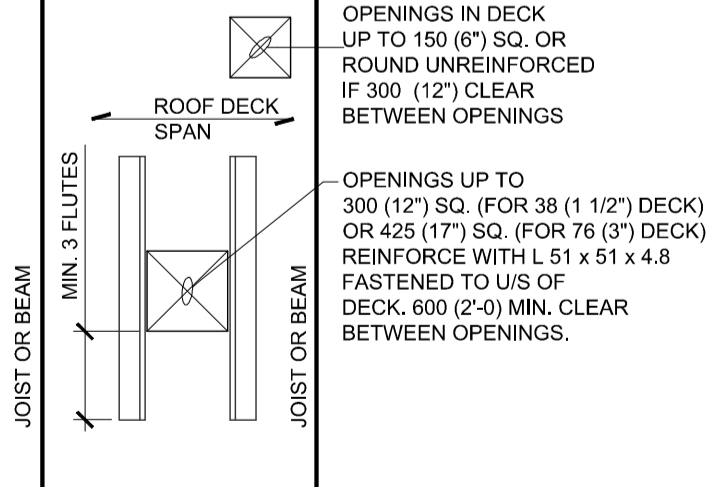
DEC 13



TYPICAL REINFORCEMENT AT HOLES IN STEEL BEAMS FOR PIPES

T5106

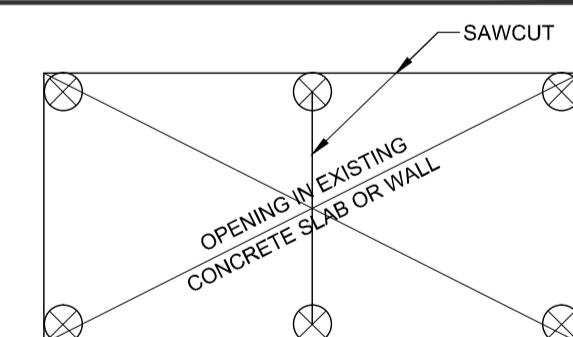
DEC 12



TYPICAL ROOF DECK OPENINGS

T5303

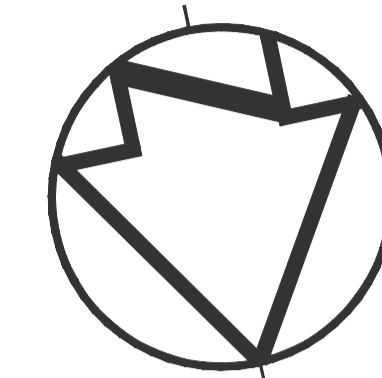
OCT 19



TYPICAL SAW CUTTING OF EXISTING SLAB OR WALL

T3504

DEC 12



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project title / titre du projet  
105 CHRISTINA STREET SOUTH

FIT UP FOR A PUBLIC SAFETY CLIENT  
SARNIA, ONTARIO

drawing title / titre du dessin  
TYPICAL DETAILS

drawn by / dessiné par  
T. CHAU

designed by / conçu par  
D. CARNOVALE

approved by / approuvé par  
J. SILVESTRI

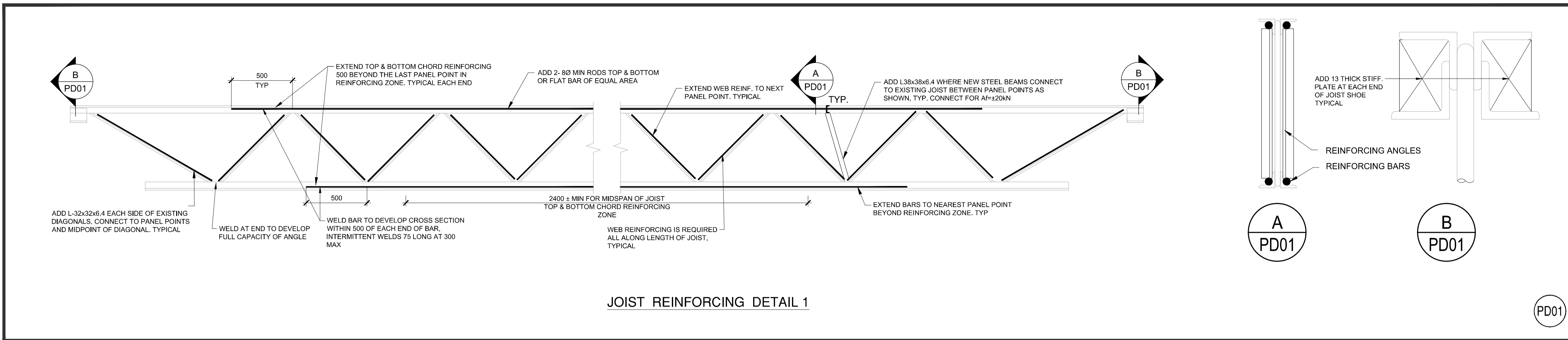
bid / offre  
A. MENIKGAMA project manager / administrateur de projets

project date / date du projet  
2015-12-17

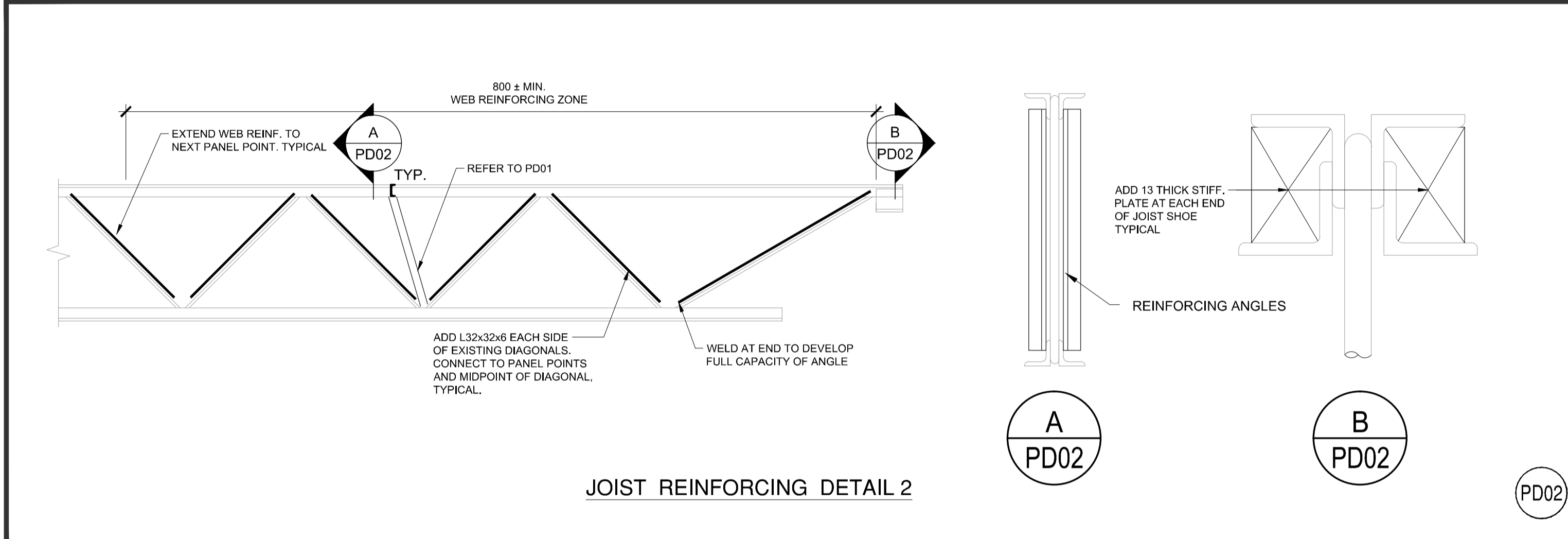
project no. / no. du projet  
R.073089.040  
R.073089.052

drawing no. / dessin no.  
S101



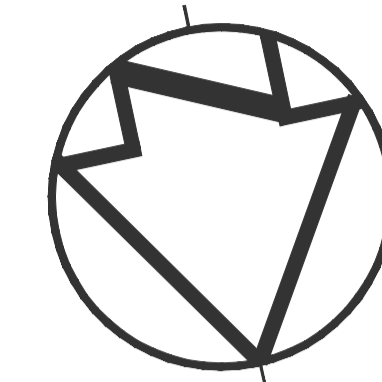


JOIST REINFORCING DETAIL 1



JOIST REINFORCING DETAIL 2

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revision		date

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dessin no. - où détail exigé
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dessin no. - où détaillé

project title  
titre du projet  
**105 CHRISTINA STREET SOUTH**  
**FIT UP FOR A PUBLIC SAFETY CLIENT**  
**SARNIA, ONTARIO**

drawing title  
titre du dessin  
**PROJECT DETAILS**

drawn by  
dessiné par **T. CHAU**

designed by  
conçu par **D. CARNOVALE**

approved by  
approuvé par **J. SILVESTRI**

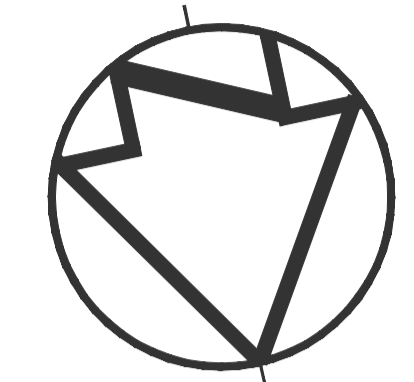
bid  
offre **A. MENIGAMA** project manager  
administrateur de projets

project date  
date du projet **2015-12-17**

project no.  
no. du projet **R.073089.040**  
**R.073089.052**

drawing no.  
dessiné no. **S102**





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titre du projet  
**105 CHRISTINA STREET SOUTH**  
**FIT UP FOR A PUBLIC SAFETY CLIENT**  
**SARNIA, ONTARIO**

drawing title  
titre du dessin  
**PART EXISTING ROOF PLAN**

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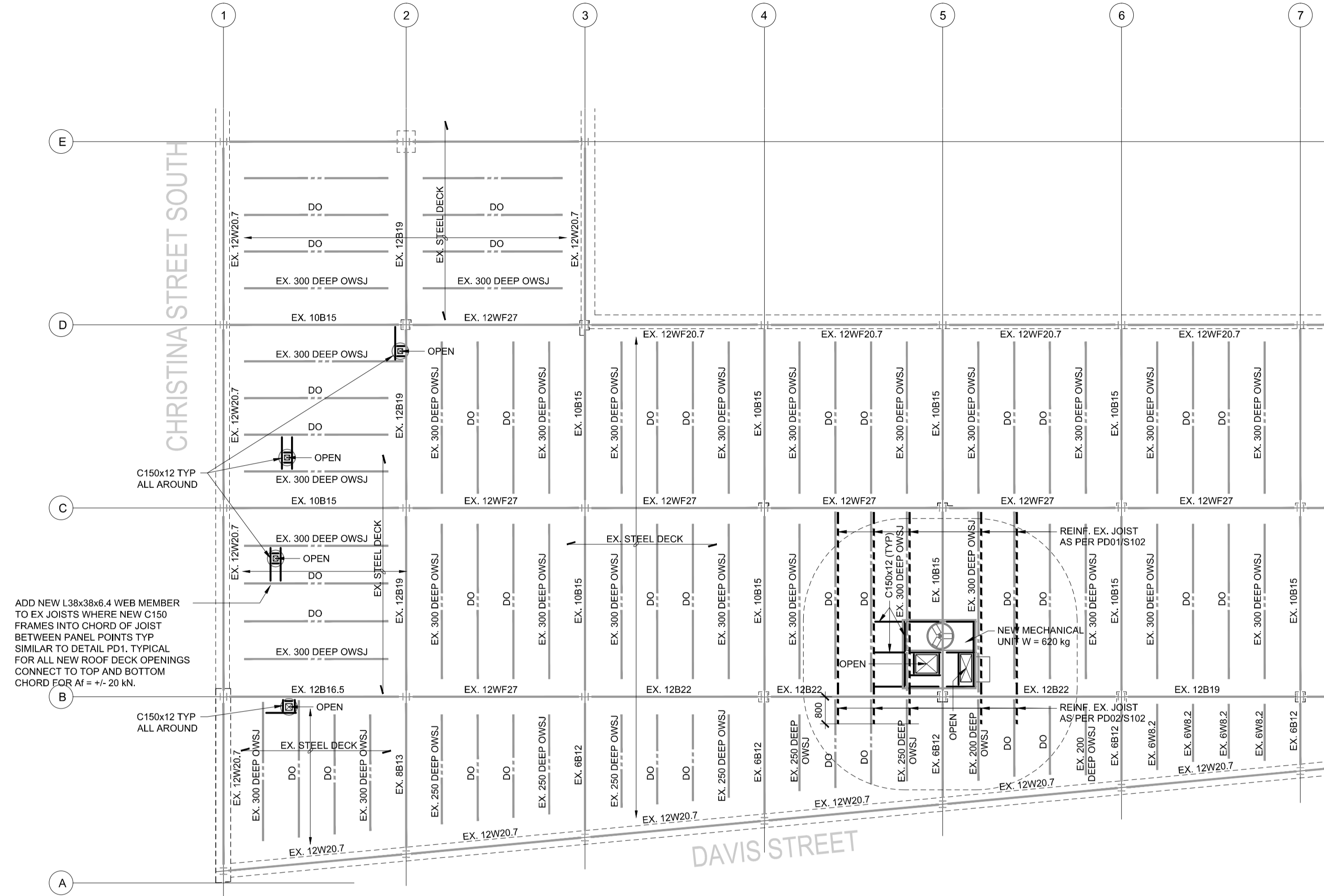
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ADD NEW L38x38x6.4 WEB MEMBER TO EX JOISTS WHERE NEW C150 FRAMES INTO CHORD OF JOIST BETWEEN PANEL POINTS TYP SIMILAR TO DETAIL PD1, TYPICAL FOR ALL NEW ROOF DECK OPENINGS CONNECT TO TOP AND BOTTOM CHORD FOR A1 = +/- 20 kN.

**PART EXISTING ROOF PLAN**

- SEE GENERAL REQUIREMENTS AND TYPICAL DETAILS ON DRAWING(S) S100.
- ROOF DATUM ELEVATION IS LEVEL WITH EXISTING.
- UNLESS NOTED OTHERWISE ON PLAN, DESIGN LOADS ARE:  
LIVE LOAD (SNOW) = 1.30 kN/m<sup>2</sup> MINIMUM + SNOW PILING AREAS NOTED ON PLAN  
LIVE LOAD (RAIN) IS INDICATED PLAN IF IT EXCEEDS SNOW LOAD  
SUPERIMPOSED DEAD LOAD = 1.0 kN/m<sup>2</sup>  
SWT = 0.4 kN/m<sup>2</sup>
- UNLESS OTHERWISE NOTED ON PLANS OR DETAILS, THE FOLLOWING DATA APPLIES:
  - UNDERSIDE OF ROOF DECK IS 0 FROM DATUM ELEVATION EXCEPT AS CROSSED AND NOTED ±X ON PLAN.
  - TOP OF STEEL BEAMS AND JOISTS IS AT UNDERSIDE OF ROOF DECK, EXCEPT WHERE BEAMS SUPPORT JOISTS, SET TOP OF BEAMS AT UNDERSIDE OF JOIST SHOE.
  - WHERE BEAMS NOTED THUS  $\overline{\text{---}}\pm\text{X}$ , X IS DISTANCE TO TOP OF BEAM FROM ROOF DATUM.
  - TRIM SIDES OF OPENINGS AS PER TYPICAL DETAIL T5303. FOR LARGER OPENINGS TRIM ALL SIDES WITH C150x12 UNLESS NOTED OTHERWISE ON THE DRAWINGS. COORDINATE OPENINGS WITH ARCHMECHELEC DRAWINGS.
- WHERE MECHANICAL LOADS ARE SHOWN ON PLAN, THE VALUES ARE APPROXIMATE. EXACT MAGNITUDE AND POSITION OF MECHANICAL LOADS ARE TO BE VERIFIED WITH MECHANICAL DRAWINGS.
- ALL MEMBERS TO TRIM MECHANICAL UNITS AND MECHANICAL UNIT OPENINGS TO BE C150x12 TYPICAL. SEE PLAN FOR LOCATIONS.

