

PORT WELLER SEARCH & RESCUE STATION

DEMOLITION, RENOVATION AND NEW CONSTRUCTION

ST. CATHARINES, ONTARIO
PROJECT NUMBER: R.079827.001

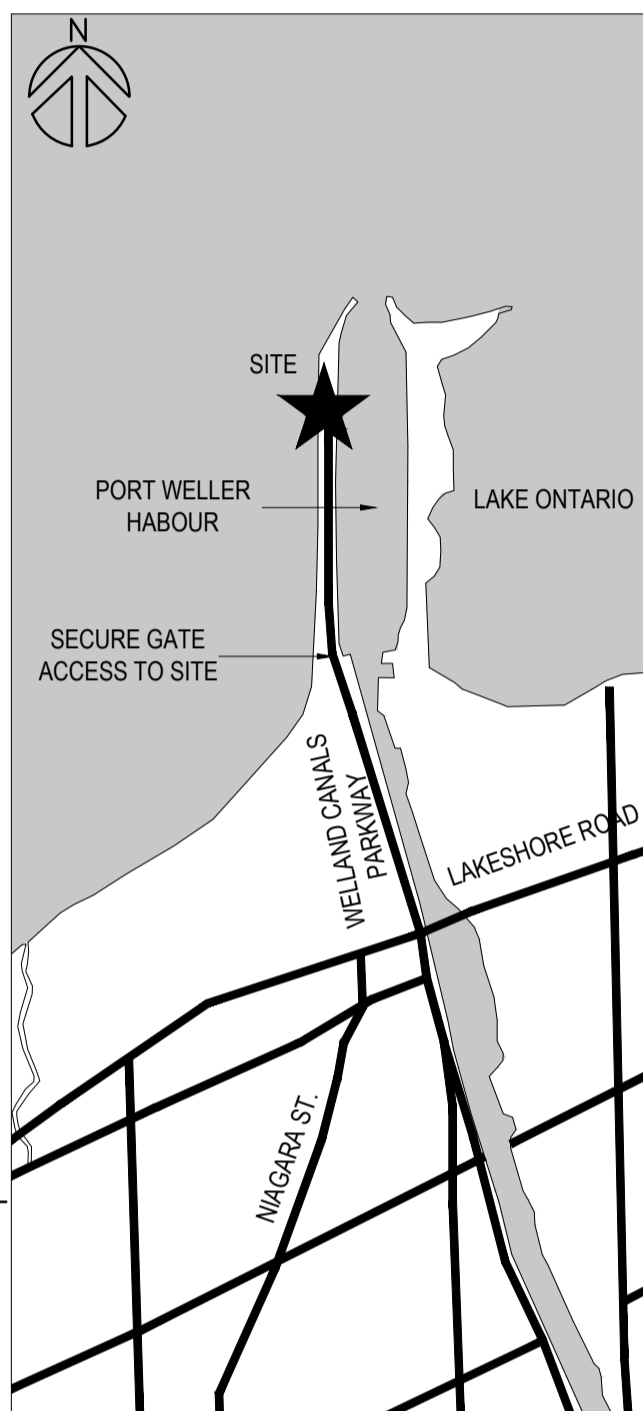
Public Works and Government Services Canada
Travaux publics et Services gouvernementaux Canada

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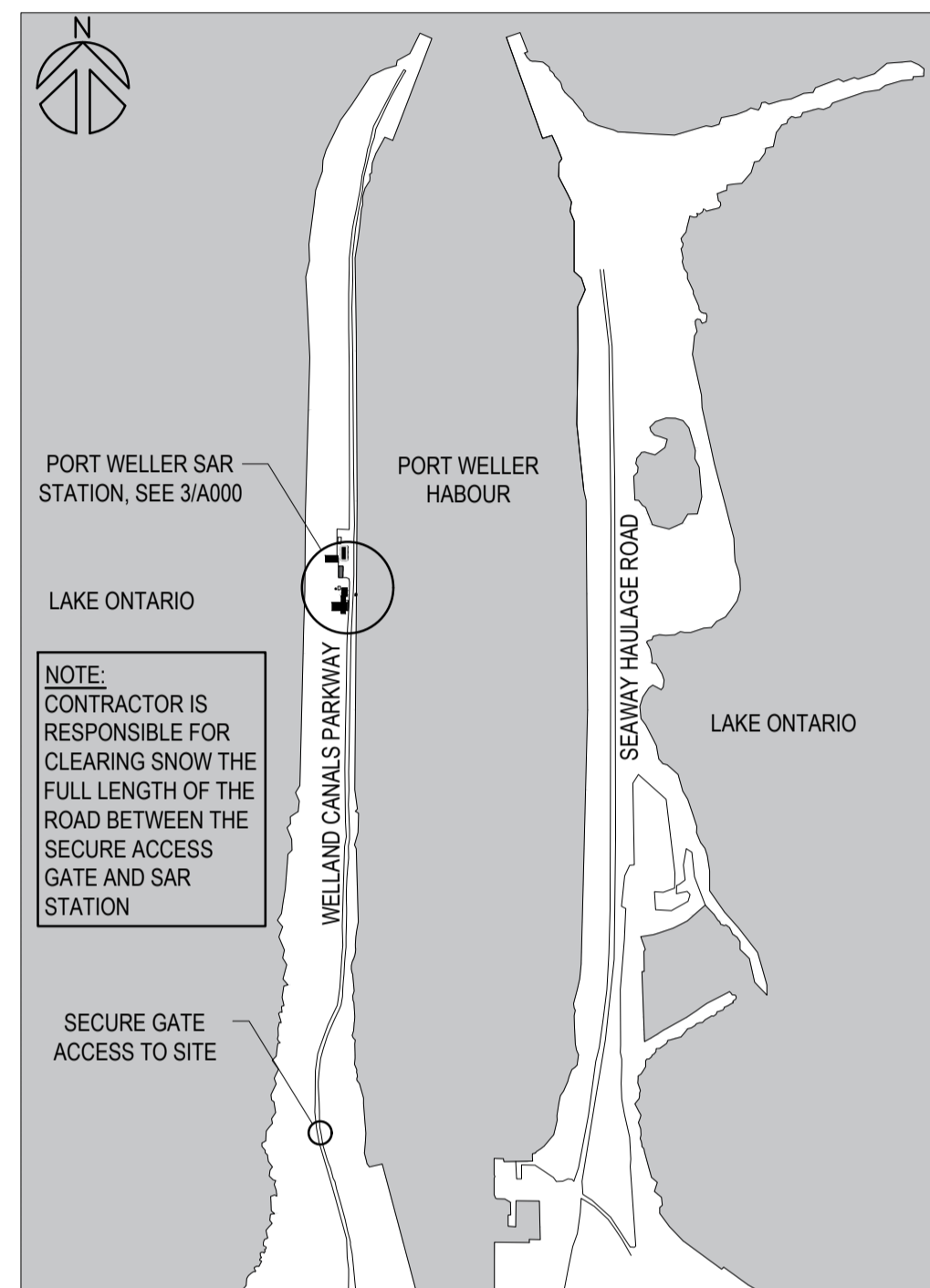
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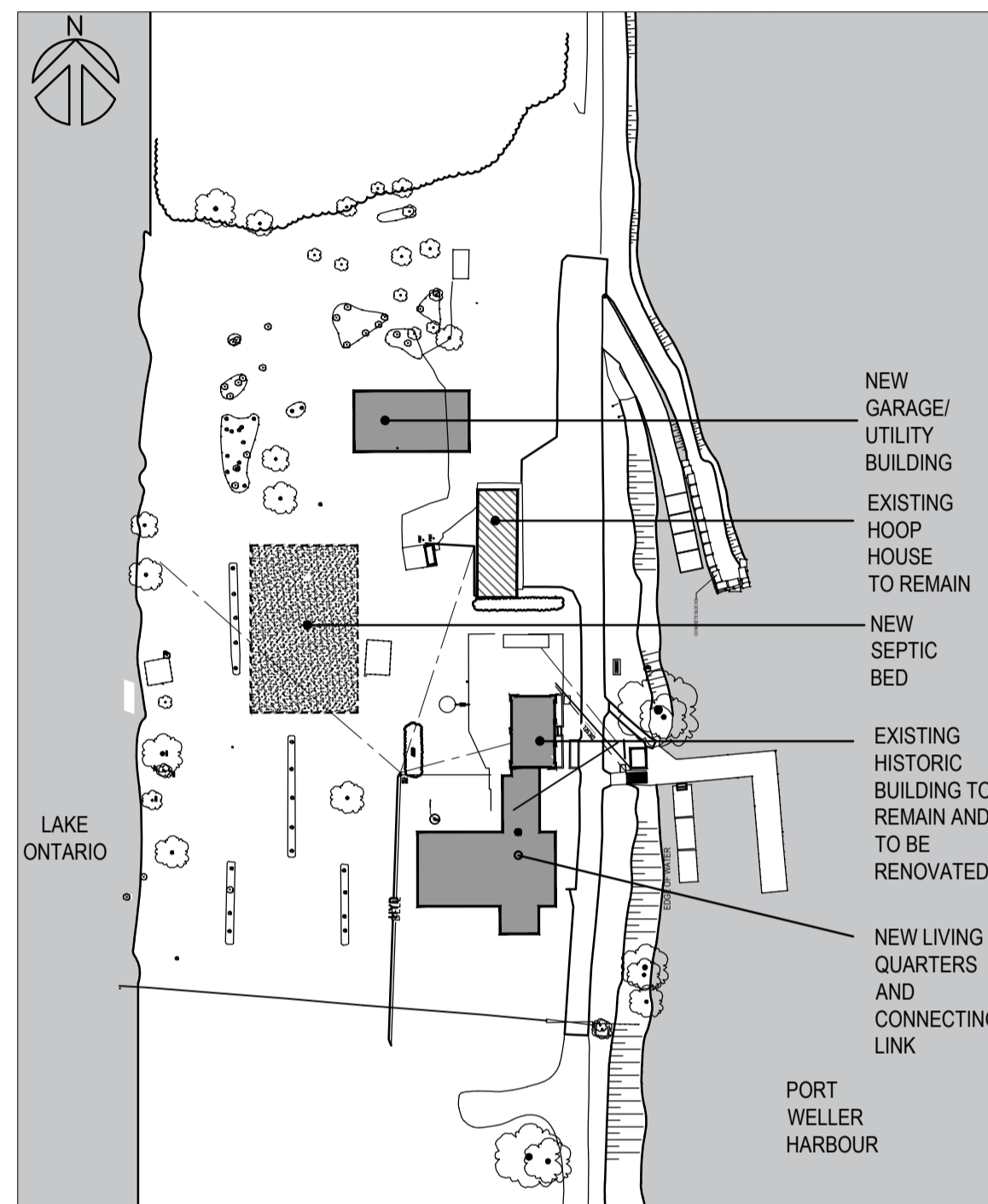
ONTARIO ASSOCIATION OF ARCHITECTS
JILL TAYLOR
LICENCE 4431



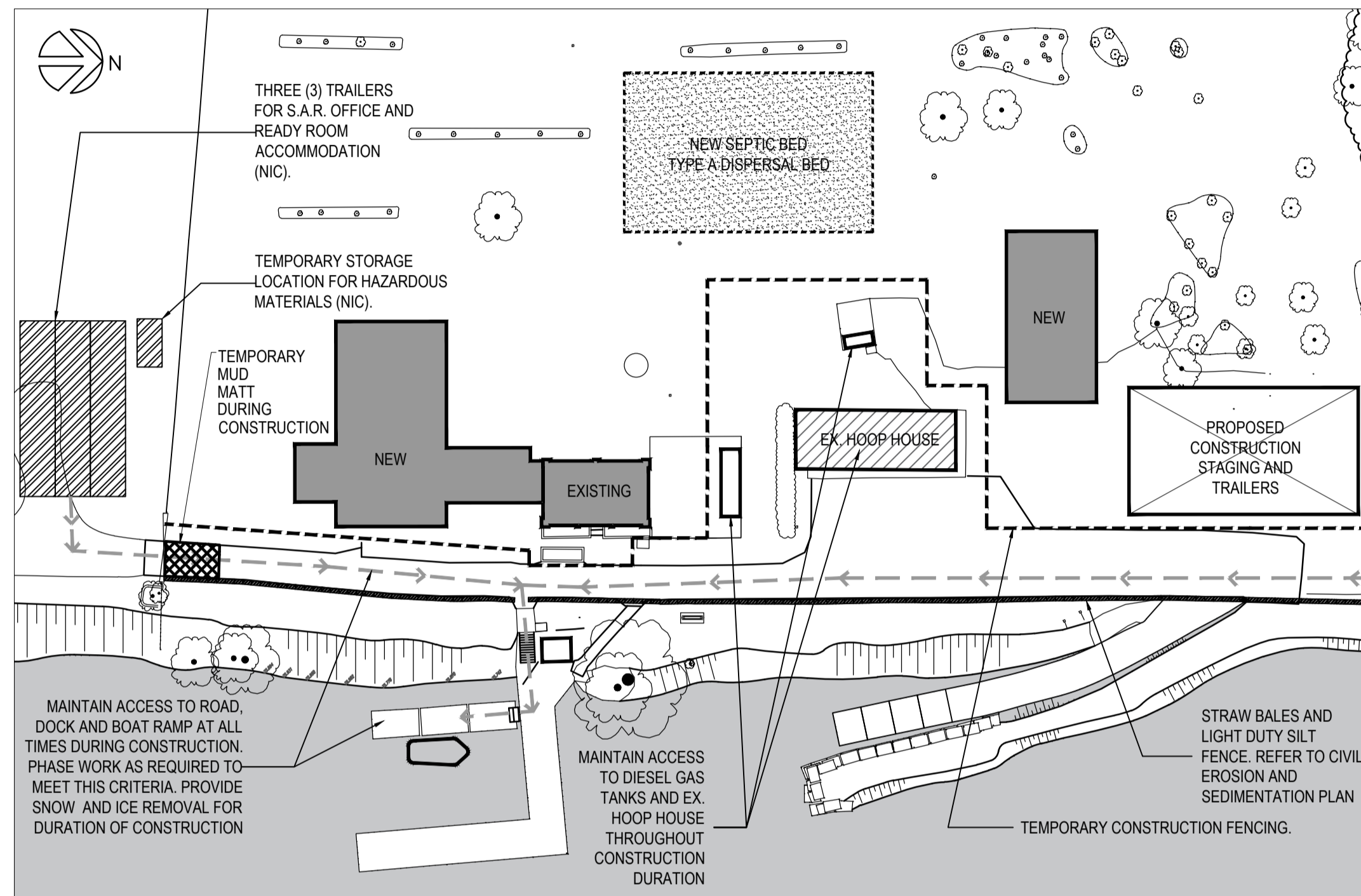
1 CONTEXT PLAN
A000 NTS



2 LOCATION PLAN
A000 NTS



3 KEY PLAN
A000 NTS



4 CONSTRUCTION STAGING PLAN
A000 NTS

LEGEND

 CONTRACTOR TO CLEAR THIS ROUTE DAILY AND MAINTAIN CLEAR ACCESS PATH AT ALL TIMES.
 DEPARTMENTAL REPRESENTATIVE REQUIRES ACCESS FROM TEMPORARY SAR ACCOMMODATION TO DOCK AT ANY TIME FOR EMERGENCY RESPONSE.
 TEMPORARY CONSTRUCTION FENCING BY CONTRACTOR. COORDINATE WITH AND PROVIDE GATES WHERE REQUIRED BY DEPARTMENTAL REPRESENTATIVE FOR ACCESS TO AREAS WITHIN PROPERTY SUCH AS GAUGE STATION.

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| 01 | ISSUED FOR TENDER | 2021-07-26 |
| revision | | date |

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

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

DRAWING LIST

ARCHITECTURAL

- A000 COVER, CONTEXT PLAN, LOCATION PLAN, KEY PLAN, CONSTRUCTION STAGING PLAN, DRAWING LIST
- A010 SITE PLAN - DEMOLITION
- A011 SITE PLAN - NEW CONSTRUCTION
- A020 BUILDING CODE MATRIX, FIRE SEPARATION DIAGRAM
- A022 SCHEDULES - DOOR, WINDOW
- A023 SCHEDULES - EXTERIOR & INTERIOR FINISHES, LOUVRE, RAINWATER LEADER, EQUIPMENT COORDINATION
- A024 DOOR AND WINDOW TYPES
- A030 CONTEXT PHOTOGRAPHS - SITE & LOCATION
- A031 CONTEXT PHOTOGRAPHS - SITE, BUILDINGS, STRUCTURES
- A032 CONTEXT PHOTOGRAPHS - EX. SITE, BUILDINGS, STRUCTURES
- A200 DEMOLITION AND PARTIAL RESTORATION PLANS - EX. BASEMENT & GROUND FLOORS, EX. LIVING QUARTERS & OFFICE
- A201 DEMOLITION AND RENOVATIONS TO EXISTING BUILDINGS AND STRUCTURES - ELEVATIONS AND SECTIONS
- A202 DEMOLITION REFLECTED CEILING PLAN AND ROOF PLAN - EX. LIVING QUARTERS BUILDING & BREEZEWAY
- A203 DEMOLITION SECTION DETAILS AT EX. HISTORIC BUILDING - EXISTING WALLS, CEILING
- A204 DEMOLITION OF EX. SITE STRUCTURES/BUILDINGS
- A300 NEW FLOOR PLAN - NEW LIVING QUARTERS
- A301 NEW FLOOR PLAN - NEW OFFICE (HISTORIC BUILDING)
- A302 NEW FLOOR PLAN - NEW GARAGE/UTILITY BUILDING
- A303 NEW ROOF PLAN - NEW LIVING QUARTERS
- A304 EX. ROOF PLAN & NEW WORK - NEW OFFICE (HISTORIC BUILDING)
- A305 NEW ROOF PLAN - NEW GARAGE/UTILITY BUILDING
- A310 NEW REFLECTED CEILING PLAN - NEW LIVING QUARTERS
- A311 NEW REFLECTED CEILING PLAN - NEW OFFICE (HISTORIC BUILDING)

- A312 NEW REFLECTED CEILING PLAN - NEW GARAGE/UTILITY BUILDING
- A340 NEW INTERIOR ELEVATIONS - NEW LIVING QUARTERS
- A341 NEW INTERIOR ELEVATIONS - NEW LIVING QUARTERS
- A342 NEW INTERIOR ELEVATIONS - NEW LIVING QUARTERS, NEW OFFICE (HISTORIC BUILDING)
- A343 NEW INTERIOR ELEVATIONS - NEW OFFICE (HISTORIC BUILDING)
- A344 NEW MILLWORK DETAILS - NEW LIVING QUARTERS
- A345 NEW MILLWORK DETAILS - NEW LIVING QUARTERS
- A346 NEW MILLWORK DETAILS - NEW LIVING QUARTERS
- A347 NEW MILLWORK DETAILS - NEW LIVING QUARTERS
- A348 NEW WASHROOM MILLWORK DETAILS - NEW LIVING QUARTERS, NEW OFFICE (HISTORIC BUILDING)
- A400 NEW ELEVATIONS - NEW LIVING QUARTERS & NEW OFFICE (HISTORIC BUILDING)
- A401 NEW ELEVATIONS - NEW LIVING QUARTERS
- A402 ELEVATIONS - NEW WORK - NEW OFFICE (HISTORIC BUILDING)
- A403 NEW ELEVATIONS - NEW GARAGE/UTILITY BUILDING
- A500 NEW BUILDING SECTIONS - NEW LIVING QUARTERS & NEW OFFICE (HISTORIC BUILDING)
- A501 NEW BUILDING SECTIONS - NEW LIVING QUARTERS & NEW OFFICE (HISTORIC BUILDING)
- A502 NEW SECTIONS - NEW GARAGE/UTILITY BUILDING
- A600 BUILDING SECTION DETAILS - TYPICAL WALL & PARAPET, NEW LIVING QUARTERS
- A601 BUILDING SECTION DETAILS - NEW LIVING QUARTERS
- A602 NEW WALL SECTIONS - NEW OFFICE (HISTORIC BUILDING)
- A603 NEW WALL SECTION & PLAN DETAILS - NEW OFFICE (HISTORIC BUILDING)

CIVIL

- C-01 CIVILS PLAN
- C-02 CIVILS DETAIL

STRUCTURAL

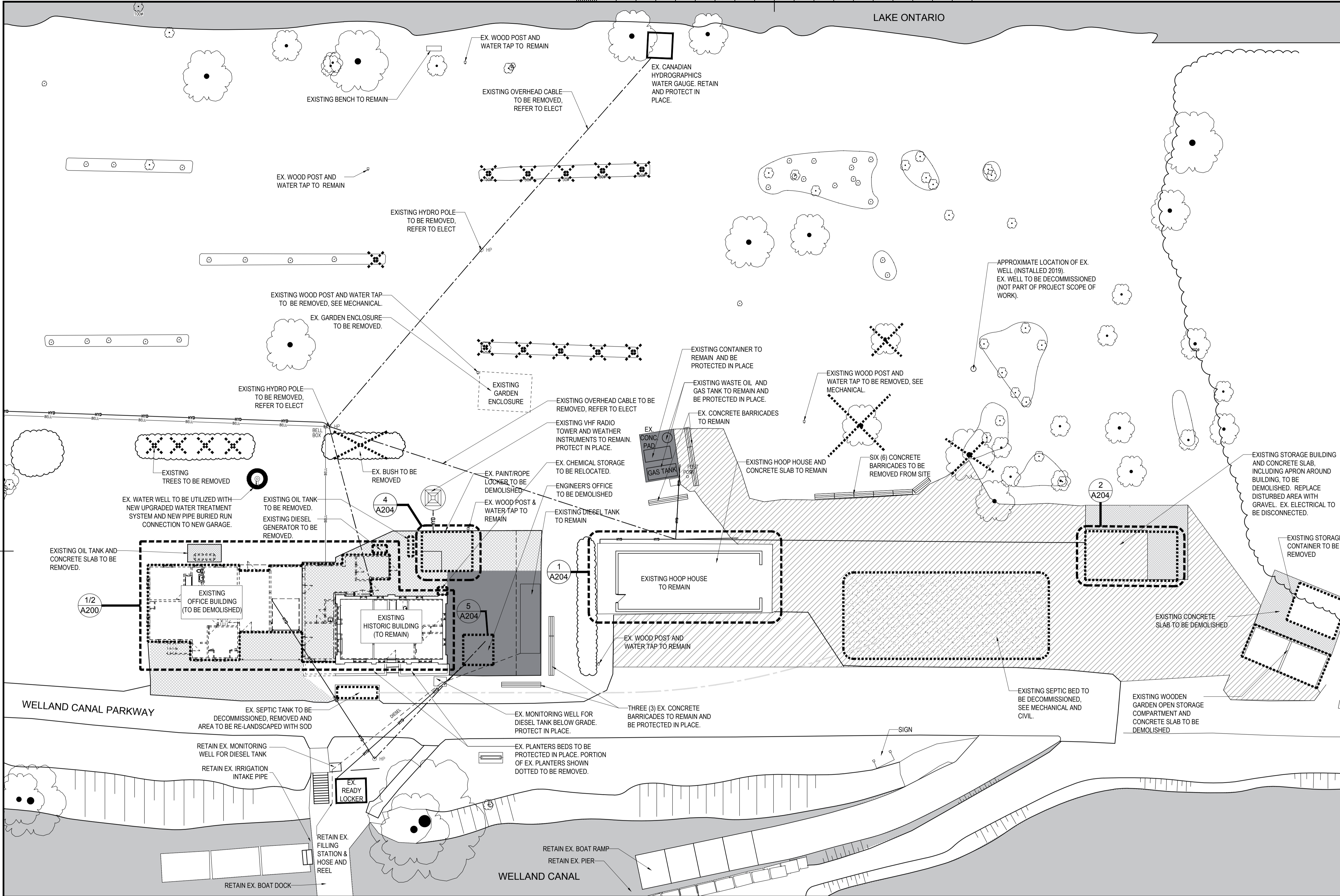
- S001 STRUCTURAL NOTES
- S100 TYPICAL DETAILS
- S101 TYPICAL DETAILS
- S102 TYPICAL DETAILS
- S200 NEW LIVING QUARTERS - FOUNDATION AND GROUND FLOOR PLAN
- S201 NEW LIVING QUARTERS - ROOF PLAN
- S202 NEW UTILITY/ GARAGE/ WORKSHOP - FOUNDATION AND GROUND FLOOR PLAN
- S203 NEW NEW UTILITY/ GARAGE/ WORKSHOP - ROOF PLAN AND SECTION
- S300 SECTIONS AND DETAILS
- S301 SECTIONS AND DETAILS
- S302 BRACING ELEVATIONS
- S303 ELEVATIONS

MECHANICAL

- M000 COVER, KEY PLAN, LOCATION PLAN, DRAWING LIST
- M001 MECHANICAL LEGEND, MECHANICAL GENERAL
- M002 SCHEDULES, MECHANICAL GENERAL
- M003 SCHEDULES, MECHANICAL GENERAL
- M004 SCHEDULES, MECHANICAL GENERAL
- M101 SITE PLAN - NEW SITE SERVICES
- M200 LIVING QUARTERS UNDERSLAB - NEW PLUMBING AND DRAINAGE
- M201 OFFICE BUILDING UNDERSLAB - NEW PLUMBING AND DRAINAGE
- M202 GARAGE/UTILITY BUILDING UNDERSLAB - NEW PLUMBING AND DRAINAGE
- M203 LIVING QUARTERS - NEW PLUMBING AND DRAINAGE
- M204 OFFICE BUILDING - NEW PLUMBING AND DRAINAGE
- M205 GARAGE/ UTILITY BUILDING - NEW PLUMBING AND DRAINAGE
- M206 LIVING QUARTERS ROOF - NEW PLUMBING AND DRAINAGE
- M207 OFFICE BUILDING ROOF - NEW PLUMBING AND DRAINAGE
- M208 GARAGE/ UTILITY BUILDING ROOF - NEW PLUMBING AND DRAINAGE
- M401 LIVING QUARTERS - NEW HVAC
- M402 OFFICE BUILDING - NEW HVAC
- M403 GARAGE/ UTILITY BUILDING - NEW HVAC
- M404 LIVING QUARTERS ROOF - NEW HVAC
- M405 OFFICE BUILDING ROOF - NEW HVAC
- M406 EXISTING LIGHTHOUSE KEEPER'S DWELLING - DEMOLITION HVAC
- M901 SHEET 1 MECHANICAL DETAILS
- M902 SHEET 2 MECHANICAL DETAILS
- M903 SHEET 3 MECHANICAL DETAILS
- M904 SHEET 4 MECHANICAL DETAILS

ELECTRICAL

- E000 COVER, KEY PLAN LOCATION AND DRAWING LIST
- E001 ELECTRICAL LEGEND AND NOTES
- E002 PANEL AND LUMINAIRE SCHEDULE
- E100 SITE PLAN
- E101 ELECTRICAL DETAILS #2
- E200 LIVING QUARTERS & OFFICE - POWER LAYOUT
- E201 ROOF POWER LAYOUT
- E202 LIVING QUARTERS & OFFICE - SYSTEMS LAYOUT
- E203 LIVING QUARTERS & OFFICE - LIGHTING LAYOUT
- E301D EXISTING BUILDINGS DEMOLITION POWER LAYOUT
- E400 GARAGE/ WORKSHOP - POWER LAYOUT
- E401 GARAGE/ WORKSHOP - LIGHTING AND SYSTEMS LAYOUT
- E500 ELECTRICAL SINGLE LINE DIAGRAM
- E901 ELECTRICAL DETAILS
- SITE SURVEY NOVEMBER 2008 (FOR REFERENCE)
- SI-768-01 TOPOGRAPHIC SURVEY



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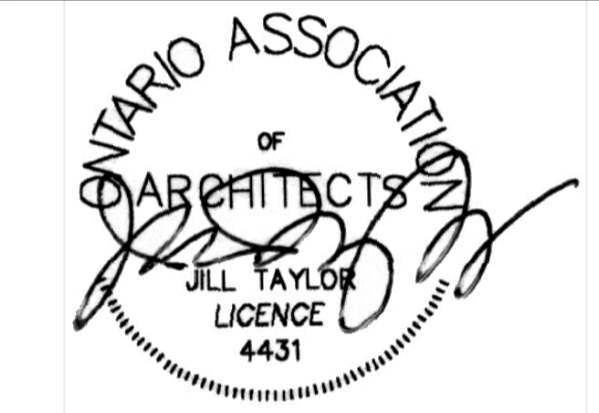
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| | drawing no. - where detailed dessin no. - où détaillé |

project title
titre du projet
PORT WELLER
DEPARTMENT OF FISHERIES AND OCEANS
SEARCH & RESCUE STATION
ST. CATHARINES
**DEMOLITION, RENOVATION,
AND NEW CONSTRUCTION**

drawing title
titre du dessin
SITE PLAN - DEMOLITION

drawn by
dessiné par KS

designed by
conçu par Chu/KS

approved by
approuvé par JT

bid
offre KG project manager
administrateur de projets

project date
date du projet 2021.07.26

project no.
no. du projet R.079827.001

drawing no.
dessiné no. A010

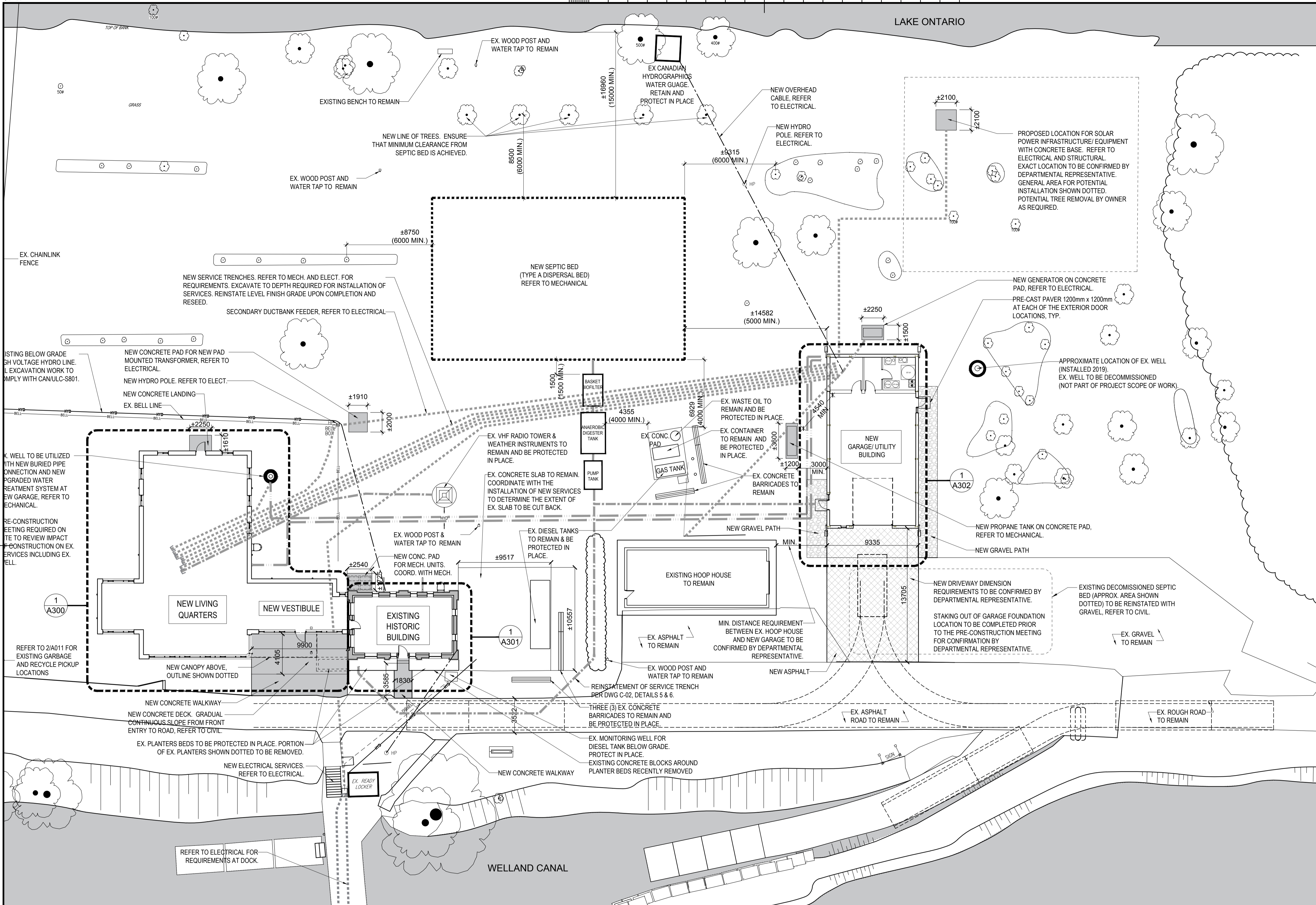
1 SITE PLAN - DEMOLITION
A010 1:200

LEGEND

- EX. CONCRETE SLAB TO REMAIN
- EX. CONCRETE SLAB TO BE REMOVED & DISPOSED
- EX. GRAVEL TO REMAIN. REMOVE AND DISPOSE OF EXTENT REQUIRED FOR THE INSTALLATION OF NEW BUILDING, NEW SEPTIC BED, NEW SITE WORKS, NEW ASPHALT AND/OR OTHER NEW WORK SHOWN ON A011, SITE PLAN - NEW CONSTRUCTION.
- EX. ASPHALT TO REMAIN. REMOVE AND DISPOSE OF EXTENT REQUIRED FOR THE INSTALLATION OF NEW BUILDING, NEW SEPTIC BED, NEW SITE WORKS, NEW ASPHALT AND/OR OTHER NEW WORK SHOWN ON A011, SITE PLAN - NEW CONSTRUCTION.
- EX. BUILDING/ STRUCTURE TO BE REMOVED & ALL MATERIALS AND REMNANTS DISPOSED, INCLUDING BELOW GRADE STRUCTURES. MAKE GOOD SUBBASE & GRADE.
- EX. TREE TO BE REMOVED. REFER TO A011, NOTE 4 FOR REPLACEMENT OF TREES IN KIND.

NOTES

- IN CONJUNCTION WITH ARCHITECTURAL SITE PLANS, REFER TO ALL CONSULTANT DRAWINGS FOR DETAILS AND COORDINATION REQUIRED.
- PROVIDE ALL TREE PROTECTIONS TO EX. TREES AND SHRUBS THROUGHOUT PROPERTY THAT ARE NOT NOTED FOR REMOVALS. PROTECTION TO INCLUDE FOR EXTENT OF TREE ROOTS.
- QUANTITY OF EX. TREES REMOVED FOR CONSTRUCTION TO BE REPLACED WITH EQUAL QUANTITY OF NEW TREES OF SAME SPECIES. CONTRACTOR TO CONFIRM QUANTITY AND PROPOSE LOCATION OF NEW TREES TO BE PLANTED. DEPARTMENTAL REPRESENTATIVE TO REVIEW AND APPROVE BEFORE SUPPLY AND INSTALL.



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DEPARTMENT OF FISHERIES AND OCEANS
SEARCH & RESCUE STATION
ST. CATHARINES
**DEMOLITION, RENOVATION,
AND NEW CONSTRUCTION**

drawing title
titre du dessin
SITE PLAN-NEW CONSTRUCTION

drawn by
dessiné par **AK/KS**

designed by
conçu par **Chu/KS**

approved by
approuvé par **JT**

bid
offre **KG** project manager
administrateur de projets

project date
date du projet **2021.07.26**

project no.
no. du projet **R.079827.001**

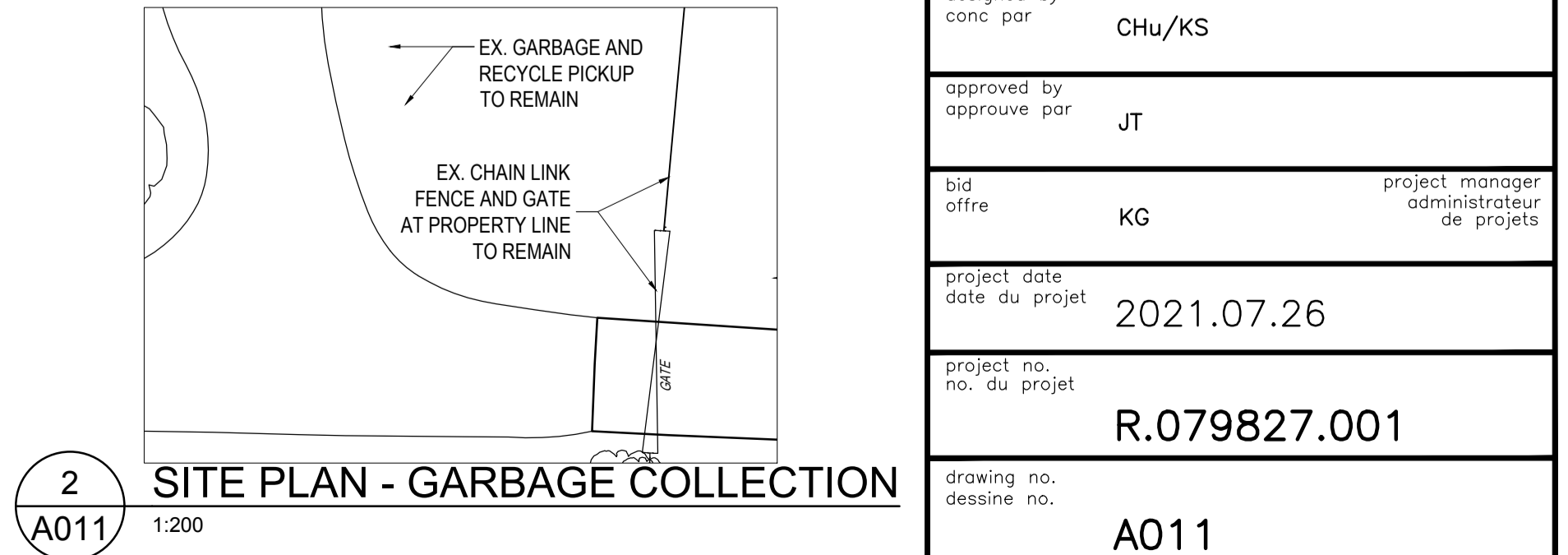
drawing no.
dessiné no. **A011**

1 SITE PLAN - NEW CONSTRUCTION
A011 1:200

LEGEND

| | | | |
|-------------------------|--|---------------------|---|
| --- (dashed line) | APPROXIMATE LOCATION OF NEW SANITARY LINE. REFER TO MECHANICAL. | --- (dotted line) | NEW GRAVEL PATH. REFER TO CIVIL. |
| --- (dash-dot line) | APPROXIMATE LOCATION OF NEW UTILITIES LINE (FIBRE SECURITY, FIBRE IT AND ELECTRICAL). REFER TO ELECTRICAL. | --- (solid line) | NEW CONCRETE DECK AND WALKWAY. REFER TO CIVIL AND STRUCTURAL. |
| --- (long-dashed line) | APPROXIMATE LOCATION OF NEW DOMESTIC COLD WATER CONNECTION BELOW GRADE. REFER TO MECHANICAL. | --- (cross-hatched) | NEW ASPHALT. REFER TO CIVIL. |
| --- (short-dashed line) | APPROXIMATE LOCATION OF NEW VHF RADIO CONNECTION BELOW GRADE. | | |

- NOTES**
- SLOPE GRADE AWAY FROM BUILDING A MINIMUM OF 2%.
 - IN CONJUNCTION WITH ARCHITECTURAL SITE PLANS, REFER TO ALL CONSULTANT DRAWINGS FOR DETAILS AND COORDINATION REQUIRED FOR ALL WORK. REPORT ANY CONFLICTS TO DEPARTMENTAL REPRESENTATIVE PRIOR TO COMMENCING WORK.
 - PROVIDE ALL TREE PROTECTIONS TO EX. TREES AND SHRUBS THROUGHOUT PROPERTY THAT ARE NOT NOTED FOR REMOVALS. PROTECTION TO INCLUDE FOR EXTENT OF TREE ROOTS.
 - QUANTITY OF EX. TREES/SHRUBS SHOWN ON A010 TO BE REMOVED FOR CONSTRUCTION, SHALL BE REPLACED WITH EQUAL QUANTITY OF NEW TREES/SHRUBS OF SAME SPECIES. CONTRACTOR TO REVIEW ON SITE IF ADDITIONAL TREES/SHRUBS, OTHER THAN SHOWN ON A010, WILL REQUIRE REMOVAL DUE TO CONSTRUCTION INTERFERENCE. CONTRACTOR TO CONFIRM TOTAL QUANTITY TO BE REMOVED AND REPLACED, AND PROPOSE LOCATION OF NEW TREES/SHRUBS TO BE PLANTED. DEPARTMENTAL REPRESENTATIVE TO REVIEW AND APPROVE BEFORE SUPPLY AND INSTALL.
 - DURING CONSTRUCTION, COORDINATE POWER SUPPLY TO TRAILERS, CHS GAUGE STATION AND RADIO TOWER.
 - PROPAANE TANK FOR EMERGENCY BACK UP GENERATOR IS SUPPLIED BY DEPARTMENTAL REPRESENTATIVE AND TO BE INSTALLED BY CONTRACTOR. CONTRACTOR IS RESPONSIBLE FOR DELIVERY OF TANK/ASSOCIATED PARTS, INSTALLATION OF TANK, SUPPLY LINE, REGULATOR, AND CONNECTION TO THE GENERATOR AND ALL COORDINATION WITH DEPARTMENTAL REPRESENTATIVE.
 - INSTALLATION ELEVATIONS FOR ALL BURIED SERVICES TO BE COORDINATED SO THERE ARE NO INTERFERENCE ISSUES.
 - AT LOCATIONS OF NEW CONCRETE PAD FOR EQUIPMENT/INFRASTRUCTURE, COORDINATE REQUIREMENTS WITH ALL APPLICABLE DISCIPLINES. DIMENSIONS SHOWN ARE APPROXIMATE AND MUST BE VERIFIED WITH REQUIREMENTS OF EQUIPMENT MANUFACTURER AND DEPARTMENTAL REPRESENTATIVE PRIOR TO INSTALLATION.
 - REFER TO CIVIL FOR SPOT ELEVATIONS AND FINISHED FLOOR ELEVATIONS.

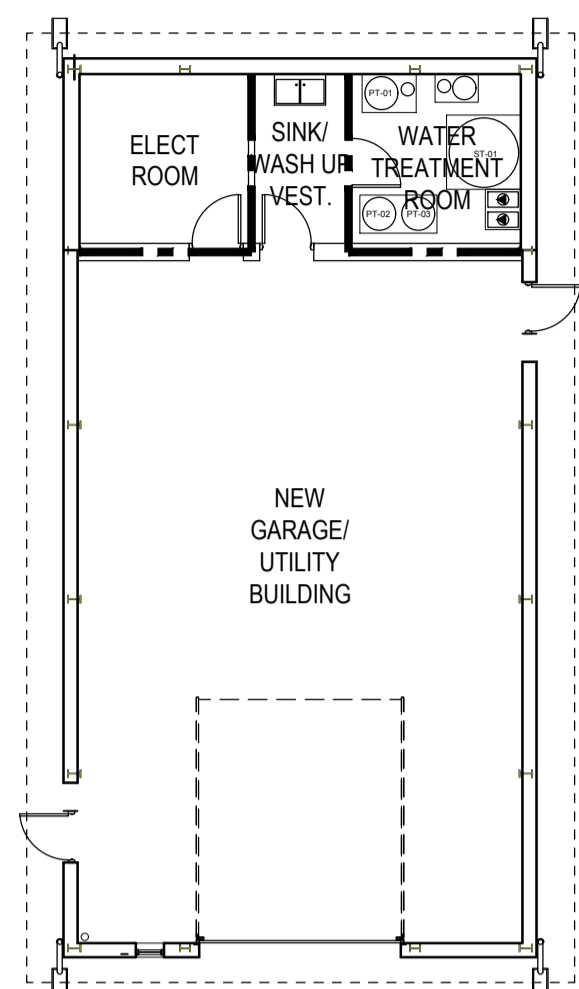


NEW LIVING QUARTERS & OFFICE (PART 9)

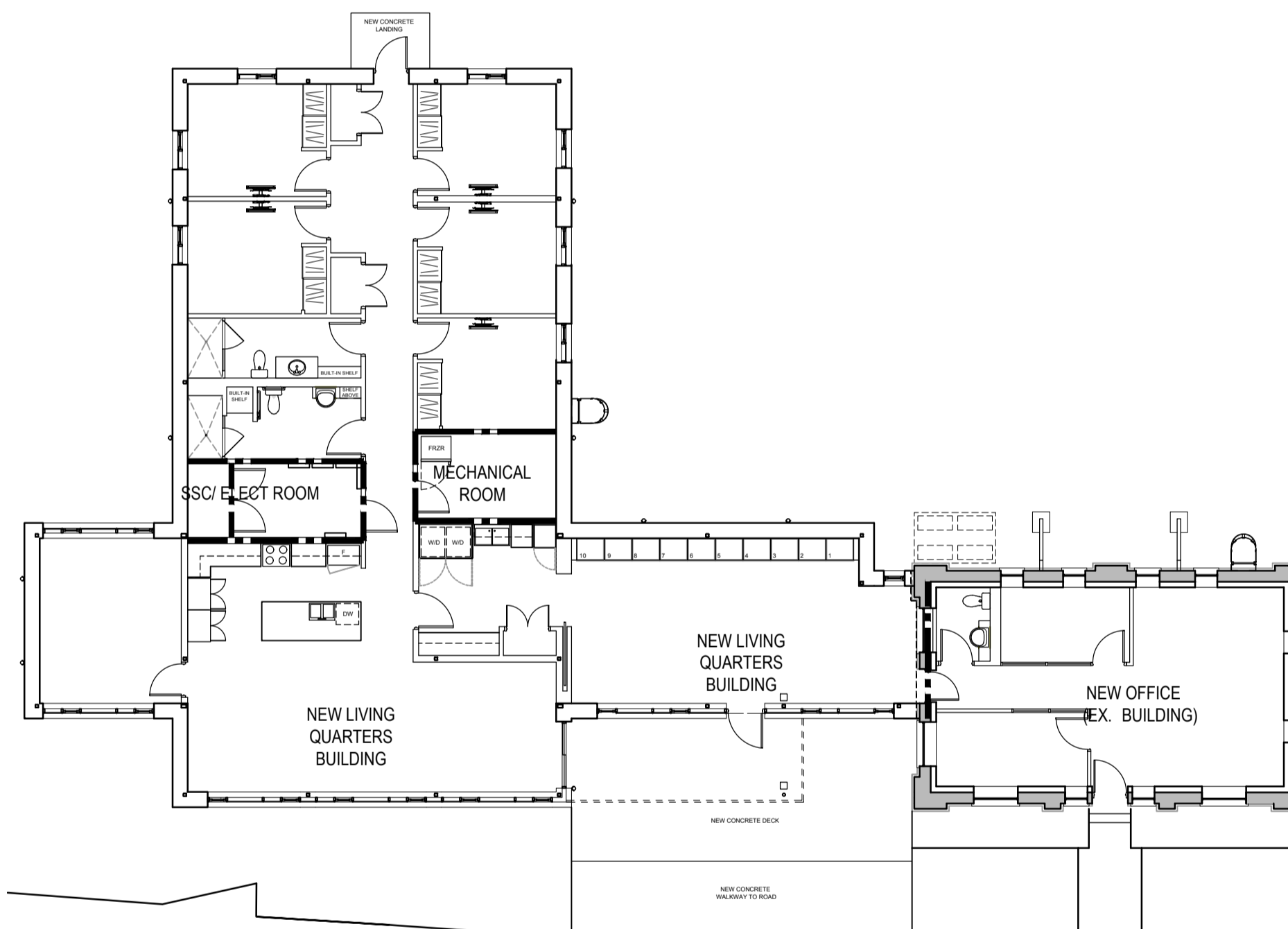
| NAME OF PROJECT: PORT WELLER SEARCH AND RESCUE STATION | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| LOCATION: PORT WELLER, ST. CATHARINES, ONTARIO | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ITEM | NATIONAL BUILDING CODE DATA MATRIX DIVISION B, PART 9 | NBC REFERENCE | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | PROJECT DESCRIPTION: <input type="checkbox"/> NEW <input checked="" type="checkbox"/> ADDITION (TO EX. BUILDING) <input type="checkbox"/> CHANGE OF USE <input type="checkbox"/> ALTERATION (EX. BUILDING) | 1.1.1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | MAJOR OCCUPANCY(S) GROUP C (DORMITORY ?) & GROUP D (OFFICES) | 1.3.3.2 & 9.10.2.1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | BUILDING AREA (m2) 324 (NEW, GROUP C), 75 (EXISTING, GROUP D) TOTAL = 399 | 1.4.1.2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | GROSS AREA (m2) 324 (NEW, GROUP C), 75 (EXISTING, GROUP D) TOTAL = 399 | 1.4.1.2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | NUMBER OF STOREYS ABOVE GRADE 1 | 1.4.1.2 & 9.10.4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 | POST-DISASTER BUILDING <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO | 1.4.1.2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7 | NUMBER OF STREETS/FIRE FIGHTER ACCESS 1 | 9.10.20 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 8 | BUILDING CLASSIFICATION GROUP C - D | 9.10.2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 9 | SPRINKLER SYSTEM PROPOSED <input type="checkbox"/> ENTIRE BUILDING <input type="checkbox"/> BASEMENT ONLY <input type="checkbox"/> IN LIEU OF ROOF RATING <input checked="" type="checkbox"/> NOT REQUIRED | 9.10.8.2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10 | STANDPIPE REQUIRED <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO | NOT APPLICABLE | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 11 | FIRE ALARM REQUIRED <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO | 9.10.18 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 12 | WATER SERVICE/SUPPLY REQUIRED <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO | 9.31.3 - POTABLE WATER PROVIDED BY ONSITE WELL. ONSITE WATER PURIFICATION SYSTEM PROVIDED. WATER FOR FIRE FIGHTING IS TO BE PUMPED FROM THE WELLDAN CANAL. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 13 | HIGH BUILDING <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO | NOT APPLICABLE | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 14 | 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 | 9.10.6 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 15 | MEZZANINE(S) AREA (m2) NONE PROVIDED | 9.10.4.1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 16 | OCCUPANT LOAD BASED ON <input type="checkbox"/> m2/PERSON <input checked="" type="checkbox"/> DESIGN OF BUILDING BASED ON 1 PERSON PER BEDROOM - 5 BEDROOMS, FOR A TOTAL OF 5 PEOPLE BASED ON 9.3m2 PER PERSON FOR OFFICE SPACE, FOR A TOTAL OF 3 PEOPLE = 13 PEOPLE TOTAL | 9.9.1.3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 17 | BARRIER-FREE DESIGN <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO (EXPLAIN) PARTIAL - SEE NOTE 23, ITEM 1 | 9.5.2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 18 | HAZARDOUS SUBSTANCES <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO | 9.10.1.3.4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 19 | REQUIRED FIRE RESISTANCE RATING (FRR) HORIZONTAL ASSEMBLIES (FRR (HOURS)) LISTED DESIGN NO. OR DESCRIPTION (SG-2) FLOORS 45 MINUTES NOT APPLICABLE ROOF 0 HOURS NOT APPLICABLE MEZZANINE 45 MINUTES NOT APPLICABLE FRR OF SUPPORTING MEMBERS LISTED DESIGN NO. OR DESCRIPTION (SG-2) FLOORS 45 MINUTES NOT APPLICABLE ROOF 0 HOURS NOT APPLICABLE MEZZANINE 45 MINUTES NOT APPLICABLE | 9.10.8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 20 | PLUMBING FIXTURE REQUIREMENTS | 9.31.4 & 3.7.2.2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <table border="1"> <thead> <tr> <th>FLOOR</th> <th>OCCUPANT LOAD</th> <th>FIXTURES REQUIRED</th> <th>FIXTURES PROVIDED (TOTAL)</th> </tr> </thead> <tbody> <tr> <td>GROUND FLOOR (both for new and existing buildings combined, different occupancies)</td> <td>13 (both for new and existing buildings combined, different occupancies)</td> <td>RESIDENTIAL (OL = 5) 1 WC & LAV PER 3.7.2.2 (4) & 3.7.2.2 (10) OFFICE (OL = 8) 1 WC & LAV PER 3.7.2.2 (4) & 3.7.2.2 (12)</td> <td>3 WATER CLOSET 3 LAVATORY 2 SHOWER 1 KITCHEN SINK 1 LAUNDRY ROOM SINK</td> </tr> </tbody> </table> | | | | FLOOR | OCCUPANT LOAD | FIXTURES REQUIRED | FIXTURES PROVIDED (TOTAL) | GROUND FLOOR (both for new and existing buildings combined, different occupancies) | 13 (both for new and existing buildings combined, different occupancies) | RESIDENTIAL (OL = 5) 1 WC & LAV PER 3.7.2.2 (4) & 3.7.2.2 (10) OFFICE (OL = 8) 1 WC & LAV PER 3.7.2.2 (4) & 3.7.2.2 (12) | 3 WATER CLOSET 3 LAVATORY 2 SHOWER 1 KITCHEN SINK 1 LAUNDRY ROOM SINK | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| FLOOR | OCCUPANT LOAD | FIXTURES REQUIRED | FIXTURES PROVIDED (TOTAL) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| GROUND FLOOR (both for new and existing buildings combined, different occupancies) | 13 (both for new and existing buildings combined, different occupancies) | RESIDENTIAL (OL = 5) 1 WC & LAV PER 3.7.2.2 (4) & 3.7.2.2 (10) OFFICE (OL = 8) 1 WC & LAV PER 3.7.2.2 (4) & 3.7.2.2 (12) | 3 WATER CLOSET 3 LAVATORY 2 SHOWER 1 KITCHEN SINK 1 LAUNDRY ROOM SINK | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 21 | SPATIAL SEPARATION - CONSTRUCTION OF EXTERIOR WALLS 9.10.15 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <table border="1"> <thead> <tr> <th>WALL</th> <th>AREA OF EBF (SM)</th> <th>L.D. (M)</th> <th>PERMITTED MAX % OF OPENINGS</th> <th>PROPOSED % OF OPENINGS</th> <th>LISTED DESIGN OR DESCRIPTION</th> <th>NOTES</th> </tr> </thead> <tbody> <tr> <td>NORTH (Office)</td> <td>21.4 m2</td> <td>15.2m*</td> <td>100%</td> <td>11.2%</td> <td>NOT APPLICABLE</td> <td>* Distance from North face of office bldg (ex. historic bldg) to ex. hoop house</td> </tr> <tr> <td>NORTH (LQ & Office)</td> <td>73 m2</td> <td>21.4 m2 of north wall of office building (ex. historic building)</td> <td></td> <td>19.2%</td> <td>NOT APPLICABLE</td> <td>See * note above for North face of office building, and refer to site plan.</td> </tr> <tr> <td>EAST (LQ & Office)</td> <td>114 m2</td> <td>N/A</td> <td>100%</td> <td>51%</td> <td>NOT APPLICABLE</td> <td></td> </tr> <tr> <td>SOUTH (LQ & Office)</td> <td>63.5 m2</td> <td>N/A</td> <td>100%</td> <td>6.6%</td> <td>NOT APPLICABLE</td> <td></td> </tr> <tr> <td>WEST (LQ & Office)</td> <td>114m2</td> <td>N/A</td> <td>100%</td> <td>18.1%</td> <td>NOT APPLICABLE</td> <td></td> </tr> </tbody> </table> | | | | WALL | AREA OF EBF (SM) | L.D. (M) | PERMITTED MAX % OF OPENINGS | PROPOSED % OF OPENINGS | LISTED DESIGN OR DESCRIPTION | NOTES | NORTH (Office) | 21.4 m2 | 15.2m* | 100% | 11.2% | NOT APPLICABLE | * Distance from North face of office bldg (ex. historic bldg) to ex. hoop house | NORTH (LQ & Office) | 73 m2 | 21.4 m2 of north wall of office building (ex. historic building) | | 19.2% | NOT APPLICABLE | See * note above for North face of office building, and refer to site plan. | EAST (LQ & Office) | 114 m2 | N/A | 100% | 51% | NOT APPLICABLE | | SOUTH (LQ & Office) | 63.5 m2 | N/A | 100% | 6.6% | NOT APPLICABLE | | WEST (LQ & Office) | 114m2 | N/A | 100% | 18.1% | NOT APPLICABLE | |
| WALL | AREA OF EBF (SM) | L.D. (M) | PERMITTED MAX % OF OPENINGS | PROPOSED % OF OPENINGS | LISTED DESIGN OR DESCRIPTION | NOTES | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| NORTH (Office) | 21.4 m2 | 15.2m* | 100% | 11.2% | NOT APPLICABLE | * Distance from North face of office bldg (ex. historic bldg) to ex. hoop house | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| EAST (LQ & Office) | 114 m2 | N/A | 100% | 51% | NOT APPLICABLE | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SOUTH (LQ & Office) | 63.5 m2 | N/A | 100% | 6.6% | NOT APPLICABLE | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| WEST (LQ & Office) | 114m2 | N/A | 100% | 18.1% | NOT APPLICABLE | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| NOTES: 1. PROPOSED METAL CLADDING PANEL CONSTRUCTION FOR EXTERIOR WALL TO HAVE 34HR FIRE RATING ALL ELEVATIONS. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 22 | ENERGY EFFICIENCY | THE BUILDING WILL COMPLY WITH THE PRESCRIPTIVE PROVISIONS IN SECTIONS 3.2, 4.2, 5.2, 6.2 AND 7.2 OF THE 2017 NATIONAL ENERGY CODE FOR BUILDINGS. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 23 | NOTES: 1. BARRIER-FREE ACCESS PROVIDED AT LIVING QUARTERS BUILDING INCLUDING BARRIER-FREE WASHROOM AND PROVISIONS FOR OFFICE MEETING SPACE REQUIRING BARRIER-FREE ACCESSIBILITY. REFER TO MEMO PREPARED BY DEPARTMENT OF FISHERIES AND OCEANS DATED JANUARY 10, 2020 FOR CUSTODIAL RATIONALE IDENTIFYING EXEMPTIONS TO REAL PROPERTY ACCESSIBILITY REQUIREMENTS FOR SAR AND IRB SMALL VESSEL STATIONS. 2. DEPARTMENTAL REPRESENTATIVE TO CONFIRM LIST OF HAZARDOUS MATERIALS FOR THIS BUILDING INCLUDING QUANTITY, LOCATIONS AND CLASSIFICATIONS. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

NEW GARAGE / UTILITY BUILDING (PART 9)

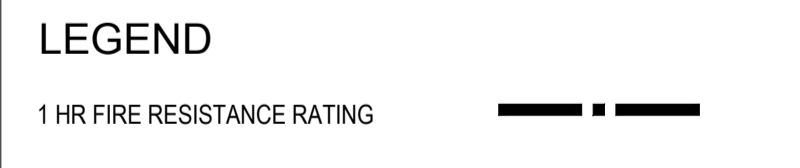
| NAME OF PROJECT: PORT WELLER SEARCH AND RESCUE STATION | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|--|--|-----------------------------|------------------------|------------------|------------------------------|--|---|-------------|------------------------------|--|---|-------|---------|-----|------|------|-------|--|----------------------|----------------------|------|---------|-----|------|-----|-------|--|----------------------|----------------------|-------|---------|-------|-----|------|----|--|----------------------|-----------------|------|---------|-----|------|------|-------|--|----------------------|----------------------|
| LOCATION: PORT WELLER, ST. CATHARINES, ONTARIO | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ITEM | NATIONAL BUILDING CODE DATA MATRIX DIVISION B, PART 9 | NBC REFERENCE | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | PROJECT DESCRIPTION: <input checked="" type="checkbox"/> NEW <input type="checkbox"/> ADDITION <input type="checkbox"/> CHANGE OF USE <input type="checkbox"/> ALTERATION | 1.1.1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | MAJOR OCCUPANCY(S) F3 LOW-HAZARD INDUSTRIAL OCCUPANCIES | 1.3.3.2 & 3.1.2.1.(1) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | BUILDING AREA (m2) 167 TOTAL | 1.4.1.2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | GROSS AREA (m2) 167 TOTAL | 1.4.1.2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | NUMBER OF STOREYS ABOVE GRADE 1 | 1.4.1.2 & 3.2.1.1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 | POST-DISASTER BUILDING <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO | 1.4.1.2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7 | NUMBER OF STREETS/FIRE FIGHTER ACCESS 0 | 9.10.20 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 8 | BUILDING CLASSIFICATION GROUP F, DIVISION 3, ONE STOREY | 9.10.2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 9 | SPRINKLER SYSTEM PROPOSED <input type="checkbox"/> ENTIRE BUILDING <input type="checkbox"/> BASEMENT ONLY <input type="checkbox"/> IN LIEU OF ROOF RATING <input checked="" type="checkbox"/> NOT REQUIRED | 9.10.8.2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10 | STANDPIPE REQUIRED <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO | NOT APPLICABLE | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 11 | FIRE ALARM REQUIRED <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO | 9.10.18 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 12 | WATER SERVICE/SUPPLY REQUIRED <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO | 9.31.3 - POTABLE WATER PROVIDED BY ONSITE WELL. ONSITE WATER PURIFICATION SYSTEM PROVIDED. WATER FOR FIRE FIGHTING IS TO BE PUMPED FROM THE WELLDAN CANAL. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 13 | HIGH BUILDING <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO | NOT APPLICABLE | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 14 | PERMITTED CONSTRUCTION <input checked="" type="checkbox"/> COMBUSTIBLE <input type="checkbox"/> NON-COMB. <input type="checkbox"/> BOTH ACTUAL CONSTRUCTION <input checked="" type="checkbox"/> COMBUSTIBLE <input type="checkbox"/> NON-COMB. <input type="checkbox"/> BOTH | 9.10.6 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 15 | MEZZANINE(S) AREA (m2) NONE PROVIDED | 9.10.4.1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 16 | OCCUPANT LOAD BASED ON <input checked="" type="checkbox"/> m2/PERSON <input type="checkbox"/> DESIGN OF BUILDING BASED ON AREA REQUIREMENTS OUTLINED IN NBC = 46.0m2 PER PERSON FOR A TOTAL OF 3 PEOPLE. | 9.9.1.3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 17 | BARRIER-FREE DESIGN <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO (EXPLAIN) | 9.5.2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 18 | HAZARDOUS SUBSTANCES <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO REFER TO NOTE 23, ITEM 2. | 9.10.1.3.4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 19 | REQUIRED FIRE RESISTANCE RATING (FRR) HORIZONTAL ASSEMBLIES (FRR (HOURS)) LISTED DESIGN NO. OR DESCRIPTION (SG-2) FLOORS 45 MIN NOT APPLICABLE ROOF NOT APPLICABLE MEZZANINE NOT APPLICABLE FRR OF SUPPORTING MEMBERS LISTED DESIGN NO. OR DESCRIPTION (SG-2) FLOORS 45 MIN NOT APPLICABLE ROOF NOT APPLICABLE MEZZANINE NOT APPLICABLE | 9.10.8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 20 | PLUMBING FIXTURE REQUIREMENTS | 9.31.4 & 3.7.2.2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| GARAGE/UTILITY BUILDING IS NOT A DWELLING UNIT. SINK AND HOSE BIBB PROVIDED IN GARAGE/UTILITY BUILDING. PER 9.31.4.1.1, REQUIRED FIXTURES (KITCHEN SINK, LAVATORY, BATHUB OR SHOWER, WATER CLOSET) PERTAIN TO EVERY DWELLING UNIT WHERE A PIPED WATER SUPPLY IS AVAILABLE. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 21 | SPATIAL SEPARATION - CONSTRUCTION OF EXTERIOR WALLS 9.10.14 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| WALL | AREA OF EBF (SM) | L.D. (M) | PERMITTED MAX % OF OPENINGS | PROPOSED % OF OPENINGS | FRR (HOURS) | LISTED DESIGN OR DESCRIPTION | COMBUSTIBLE CONSTRUCTION/NON-COMB CONSTRUCTION | COMBUSTIBLE OR NON-COMBUSTIBLE CLADDING | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| NORTH | 91.8 m2 | N/A | 100% | 3.7% | 45min | | EITHER IS ACCEPTABLE | EITHER IS ACCEPTABLE | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| EAST | 43.9 m2 | N/A | 100% | 37% | 45min | | EITHER IS ACCEPTABLE | EITHER IS ACCEPTABLE | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SOUTH | 91.8 m2 | 5.9m* | 18% | 3.7% | 1H | | EITHER IS ACCEPTABLE | NON-COMBUSTIBLE | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| WEST | 43.9 m2 | N/A | 100% | 1.4% | 45min | | EITHER IS ACCEPTABLE | EITHER IS ACCEPTABLE | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| NOTES: 1. * Distance from south face of Garage/Utility building to ex. hoop house. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 22 | ENERGY EFFICIENCY | THE BUILDING WILL COMPLY WITH THE PRESCRIPTIVE PROVISIONS IN SECTIONS 3.2, 4.2, 5.2, 6.2 AND 7.2 OF THE 2017 NATIONAL ENERGY CODE FOR BUILDINGS. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 23 | NOTES: 1. REFER TO MEMO PREPARED BY DEPARTMENT OF FISHERIES AND OCEANS DATED JANUARY 10, 2020 FOR CUSTODIAL RATIONALE IDENTIFYING EXEMPTIONS TO REAL PROPERTY ACCESSIBILITY REQUIREMENTS FOR SAR AND IRB SMALL VESSEL STATIONS. 2. DEPARTMENTAL REPRESENTATIVE TO CONFIRM LIST OF HAZARDOUS MATERIALS FOR THIS BUILDING INCLUDING QUANTITY, LOCATIONS AND CLASSIFICATIONS. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |



NEW GARAGE/UTILITY BUILDING



NEW LIVING QUARTERS & OFFICE BUILDING



1 FIRE SEPARATION DIAGRAMS
A020 1:200



TAYLOR HAZELL ARCHITECTS LTD.
333 Adelaide Street West
5th Floor
Toronto, Ontario, M5V 1R5
Telephone: (416) 862-2694
Facsimile: (416) 862-8401

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f. 416.487.9766
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|----------|-------------------|------------|
| 06 | | |
| 05 | | |
| 04 | | |
| 03 | | |
| 02 | | |
| 01 | ISSUED FOR TENDER | 2021-07-26 |
| revision | | date |

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

A Detail No. No. du détail
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
PORT WELLER
DEPARTMENT OF FISHERIES AND OCEANS
SEARCH & RESCUE STATION
ST. CATHARINES
**DEMOLITION, RENOVATION,
AND NEW CONSTRUCTION**

drawing title
titre du dessin
**BUILDING CODE MATRIX
FIRE SEPARATION DIAGRAM**

drawn by
dessiné par AK/KS

designed by
conçue par CHu/KS

approved by
approuvé par JT

bid
offre KG project manager
administrateur de projets

project date
date du projet 2021.07.26

project no.
no. du projet R.079827.001

drawing no.
dessiné no. A020

DOOR SCHEDULE

New Living Quarters

| Number | Door Type | Exterior | Interior | Width (mm) | Height (mm) | Frame Type | Frame Material | Finish | Door Material | Finish | Comment |
|--------|-----------|----------|----------|------------|-------------|------------|----------------|--------|---------------|--------|--|
| D100A | A | ✓ | | 1015 | 2150 | CW1 | AL | F | AL/LG | F | To be provided by curtain wall supplier. Refer to 3/A024 curtain wall types. |
| D101 | - | ✓ | | 1920 | 2185 | CW2 | AL | F | AL/LG | F | Sliding door with operable and fixed portion and transom. To be provided by curtain wall supplier. Refer to 3/A024 curtain wall types. |
| D118 | C | ✓ | | 915 | 2135 | F3 | AL | F | AL/LG | F | To be provided by same manufacturer as window supplier |
| D100B | D | | ✓ | 1830 | 2135 | - | - | - | WD | ST | Sliding Pocket Door tucks into partition cavity when in open position. No door frame. Ceiling track and bottom guide. |
| D104 | A | | ✓ | 915 | 2135 | F2 | WD | ST | WD/LG | ST | Opaque film to be installed at door glazing. |
| D105A | B | | ✓ | 915 | 2135 | F1 | MT | PT | MT | PT | Fire Rated 3/4H |
| D105B | B | | ✓ | 2x915 | 2135 | F1 | MT | PT | MT | PT | Fire Rated 3/4H; Double Swing Doors |
| D106 | B | | ✓ | 1000 | 2135 | F2 | WD | ST | WD | ST | |
| D107 | B | | ✓ | 915 | 2135 | F2 | WD | ST | WD | ST | |
| D108 | B | | ✓ | 915 | 2135 | F2 | WD | ST | WD | ST | |
| D108a | H | | ✓ | 2x915 | 2135 | | | | WD | ST | Sliding bedroom millwork closet door divided in two compartments |
| D109 | B | | ✓ | 915 | 2135 | F2 | WD | ST | WD | ST | |
| D109a | H | | ✓ | 2x915 | 2135 | | | | WD | ST | Sliding bedroom millwork closet door divided in two compartments |
| D110 | B | | ✓ | 2x610 | 2135 | F2 | WD | ST | WD | ST | Double Swing Closet Door |
| D111 | B | | ✓ | 2x610 | 2135 | F2 | WD | ST | WD | ST | Double Swing Closet Door |
| D112 | B | | ✓ | 915 | 2135 | F2 | WD | ST | WD | ST | |
| D112a | H | | ✓ | 2x915 | 2135 | | | | WD | ST | Sliding bedroom millwork closet door divided in two compartments |
| D113 | B | | ✓ | 915 | 2135 | F2 | WD | ST | WD | ST | |
| D113a | H | | ✓ | 2x915 | 2135 | | | | WD | ST | Sliding bedroom millwork closet door divided in two compartments |
| D114 | B | | ✓ | 915 | 2135 | F2 | WD | ST | WD | ST | |
| D114a | H | | ✓ | 2x915 | 2135 | | | | WD | ST | Sliding bedroom millwork closet door divided in two compartments |
| D115 | B | | ✓ | 915 | 2135 | F1 | MT | PT | MT | PT | Fire Rated 3/4 H |
| D116 | B | | ✓ | 1000 | 2135 | F2 | WD | ST | WD | ST | |
| D117 | B | | ✓ | 2x610 | 2135 | F2 | WD | ST | WD | ST | Double Swing Closet Door |

New Office (Historic Building)

| Number | Door Type | Exterior | Interior | Width (mm) | Height (mm) | Frame Type | Frame Material | Finish | Door Material | Finish | Comment |
|--------|-----------|----------|----------|------------|-------------|------------|----------------|--------|---------------|--------|--|
| D200 | E | ✓ | | 810 | 2065 | F2* | WD | ST | WD | ST | *Frame to suit existing opening at exterior wall. Historic Reproduction - Wood Stile Door |
| D202 | E | | ✓ | 810 | 2065 | F2* | WD | ST | WD | ST | *Fire Rated 3/4H; Historic Reproduction - Wood Stile Door. Door, Frame, Door hardware to meet 3/4H FRR. Frame to suit ex. opening at former exterior wall (location of door now an interior wall). |
| D203 | B* | | ✓ | 915 | 2135 | - | WD | PT | WD* | PT | *Door and frame part of demountable partition system |
| D204 | B | | ✓ | 915 | 2135 | F2 | WD | ST | WD | ST | |
| D205 | F* | | ✓ | 915 | 2135 | - | WD | PT | WD/LG* | PT | *Door and frame part of demountable partition system |

New Garage/ Utility Building

| Number | Door Type | Exterior | Interior | Width (mm) | Height (mm) | Frame Type | Frame Material | Finish | Door Material | Finish | Comment |
|--------|-----------|----------|----------|------------|-------------|------------|----------------|--------|---------------|--------|--|
| D300A | G | ✓ | | 4000 | 3660 | * | MT | PT | MT | PT | Overhead garage door. *Frame by overhead garage door provider. |
| D300B | C | | ✓ | 915 | 2135 | F4 | MT | PT | MT/LG | PT | With sidelite and operable window |
| D300C | C | | ✓ | 915 | 2135 | F4 | MT | PT | MT/LG | PT | With sidelite and operable window |
| D301 | B | | ✓ | 915 | 2135 | F1 | MT | PT | MT | PT | Fire Rated 3/4 H |
| D302 | C | | ✓ | 915 | 2135 | F1 | MT | PT | MT/LG | PT | |
| D303 | B | | ✓ | 915 | 2135 | F1 | MT | PT | MT | PT | Fire Rated 3/4H |

- Legend**
AL - Aluminum
EX - Existing
F - Finish to be coordinated with exterior metal panels
MT - Metal Door and/or frame
WD - Wood (Ash, Clear coat)
ST - Stained
PT - Painted
LG - Double Glazed Laminated Tempered Glass

WINDOW SCHEDULE

New Living Quarters

| Type | Width (mm) | Height (mm) | Method of Operation | Screen | Window Roller Shade | Motorized or Manual Shade | Size of Operable Window Panel | Comments |
|------|------------|-------------|---------------------|--------|---|--|-------------------------------|---|
| W2 | 605 | 2310 | Casement | Yes | Yes - Medium openness factor | Manual | 555x1215 | |
| W3 | 1120 | 1880 | Fixed/ Casement | Yes | Yes - blackout & Medium openness factor | Manual | 520x1255 | |
| CW1 | 8560 | 2310 | Fixed/ Casement | Yes | Yes - Medium openness factor | Motorized | 475x1195 | Width is of entire curtain wall that includes door/transom. |
| CW2 | 12827 | 2310 | Fixed/ Casement | Yes | Yes - Medium openness factor | Motorized | 475x1195* | *East elevation operable window panel size. |
| | | | | | | Manual at transom & sliding door (operable & fixed portions) | 1830x2185* | *1830x2185 is size of sliding door at north elevation. One of the doors is operable, one is fixed. |
| CW3 | 3200 | 2310 | Fixed/ Casement | Yes | Yes - Medium openness factor | Motorized | 475x1195 | Curtain wall wraps around East-North elevations and includes a sliding door and transom at north elevation. |
| | | | | | | Manual | 475x1195 | Curtain wall mirror orientation on East elevation. |

- Notes:**
1. All Windows are double glazed.
2. All windows must perform to U(SI) 1.99 U(IP) 0.35.

New Office (Historic Building)

| Type | Width (mm) | Height (mm) | Method of Operation | Screen | Window Roller Shade | Motorized or Manual Shade | Size of Operable Window Panel | Comments |
|------|------------|-------------|---------------------|--------|------------------------------|---------------------------|-------------------------------|--|
| W1a | 645 | 1920 | Fixed/ Casement | Yes | Yes - Medium openness factor | Manual | ±595x910 | |
| W1b | 1275 | 1920 | Fixed/ Awning | Yes | Yes - Medium openness factor | Manual | ±615x940 | Window roller shade not required at Rm. 204. Opaque film to be installed at all divided lites at side facing Rm. 100 Ready Rm/Vestibule. |

- Notes:**
1. All Windows are historic reproduction steel, double glazed.
2. All openings are existing, dimensions to be site verified. New windows to be dimensioned and installed to suit existing openings.
3. All windows must perform to U(SI) 1.42 U(IP) 0.25.

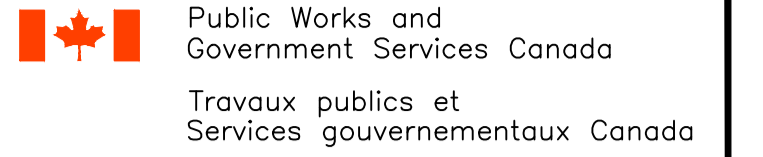
New Garage/ Utility Building

| Number | Width (mm) | Height (mm) | Method of Operation | Screen | Window Roller Shade | Motorized or Manual Shade | Size of Operable Window Panel | Comments |
|--------|------------|-------------|---------------------|--------|---------------------|---------------------------|-------------------------------|----------|
| W6 | 555 | 1270 | Awning | Yes | None | N/A | 455 x 1170 | |

- Notes:**
1. All Windows are double glazed.
2. All windows must perform to U(SI) 3.92 U(IP) 0.69.

NOTES

1. ALL GLAZING AT EXTERIOR WINDOWS AND DOORS TO BE LAMINATED TEMPERED GLASS, TYPICAL. REFER TO SPECIFICATIONS FOR DETAILS AND WINDOW SCHEDULE NOTES.
2. SAMPLES OF OPAQUE FILM FOR DOOR AND WINDOW LOCATIONS WHERE NOTED, TO BE PROVIDED TO DEPARTMENTAL REPRESENTATIVE FOR REVIEW AND APPROVAL PRIOR TO INSTALLATION.



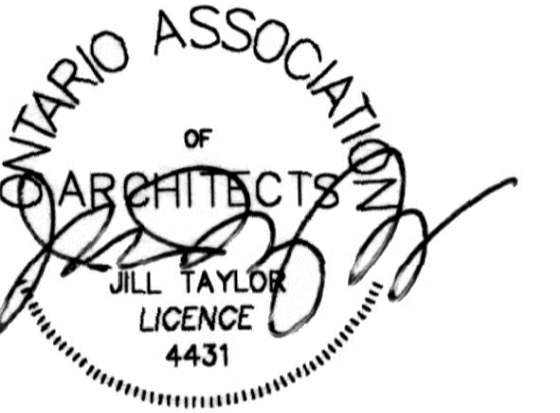
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B drawing no. - where detail required dessin no. - où détail exigé
C drawing no. - where detailed dessin no. - où détaillé

project title
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PORT WELLER
DEPARTMENT OF FISHERIES AND OCEANS
SEARCH & RESCUE STATION
ST. CATHARINES
DEMOLITION, RENOVATION, AND NEW CONSTRUCTION

drawing title
titre du dessin
SCHEDULES – DOOR, WINDOW

drawn by
dessiné par **KS/MP**

designed by
conçue par **Chu/KS**

approved by
approuvé par **JT**

bid
offre **KG** project manager
administrateur de projets

project date
date du projet **2021.07.26**

project no.
no. du projet **R.079827.001**

drawing no.
dessiné no. **A022**

INTERIOR FINISH SCHEDULE

New Living Quarters

Table with columns: Room No., Name, Walls (North, East, South, West), Wall Base, Floor, Ceiling, Note. Lists finishes for rooms like Vestibule, Dining Room, Living Room, Kitchen, etc.

New Office (Historic Building)

Table with columns: Room No., Name, Walls (North, East, South, West), Wall Base, Floor, Ceiling, Notes. Lists finishes for rooms like Vestibule, Training Area, Corridor, etc.

New Garage/Utility Building

Table with columns: Room No., Name, Walls (North, East, South, West), Wall Base, Floor, Ceiling, Notes. Lists finishes for rooms like Garage/Workshop, Electrical Room, etc.

Notes:

- 1. Supply and install 19mm fire-rated plywood sheets at all partitions/walls of rooms noted in schedules and drawings. Plywood to be 2440mm x 1220mm, mounted vertically 150mm A.F.F. with best side toward room interior.

Legend

Table with columns: Legend, Colour, Size and Slip resistance. Lists materials like EX-EXT, Gypsum Wall Board, Plywood, etc.

Notes:

- 1. Coordinate and confirm location of painted feature wall with Departmental Representative prior to preparation and application.

LOUVRE SCHEDULE

Table with columns: Number, Width (mm), Height (mm), Location, Colour. Lists louvre specifications for Living Quarters Building.

Notes:

- 1. Refer to Mechanical for free area requirements. Architectural sizes include frames.

EXTERIOR FINISH SCHEDULE

New Living Quarters

Table with columns: Building Component, Colour, Material Finish. Lists exterior finishes for Composite Wall Panels, Roof Parapet Flashing, etc.

New Office (Historic Building)

Table with columns: Building Component, Colour, Material Finish. Lists exterior finishes for Exterior building walls, Door, etc.

New Garage/Utility Building

Table with columns: Building Component, Colour, Material Finish. Lists exterior finishes for Composite Wall Panels, Standing Seam Metal Roof, etc.

RAINWATER LEADER SCHEDULE

Table with columns: Number, Location, Colour. Lists rainwater leader specifications for various buildings.

Notes:

- 1. Refer to Architectural plans and elevations for location of RWL. Coordinate final location with Departmental Representative prior to installation.

EQUIPMENT COORDINATION SCHEDULE

New Living Quarters

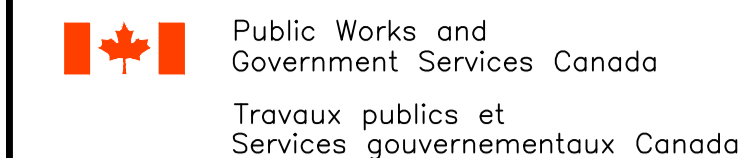
Table with columns: Equipment, Room, Contractor to Supply and Install, Departmental Representative to Supply, Existing to be reused, Contractor to install, Departmental Representative to install. Lists equipment like Vent hood, Oven, etc.

New Office (Historic Building)

Table with columns: Equipment, Room, Contractor to Supply and Install, Departmental Representative to Supply, Existing to be reused, Contractor to install, Departmental Representative to install.

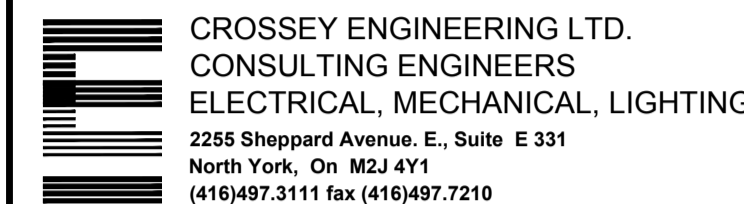
New Garage/Utility Building

Table with columns: Equipment, Room, Contractor to Supply and Install, Departmental Representative to Supply, Existing to be reused, Contractor to install, Departmental Representative to install.



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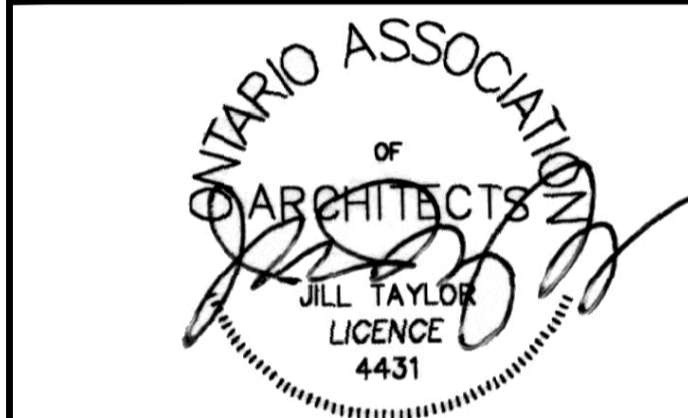


Table with columns: Revision, Description, Date. Shows revision 01 ISSUED FOR TENDER on 2021-07-26.

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Table with columns: Detail No., Drawing No., Detail No. Lists detail A, B, and C.

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ST. CATHARINES
DEMOLITION, RENOVATION,
AND NEW CONSTRUCTION

drawing title
titre du dessin
SCHEDULES-INTERIOR&EXTERIOR
FINISHES, LOUVRE, RAINWATER
LEADER, EQUIPMENT COORDIN.

drawn by
dessiné par KS

designed by
conçu par CHu/KS

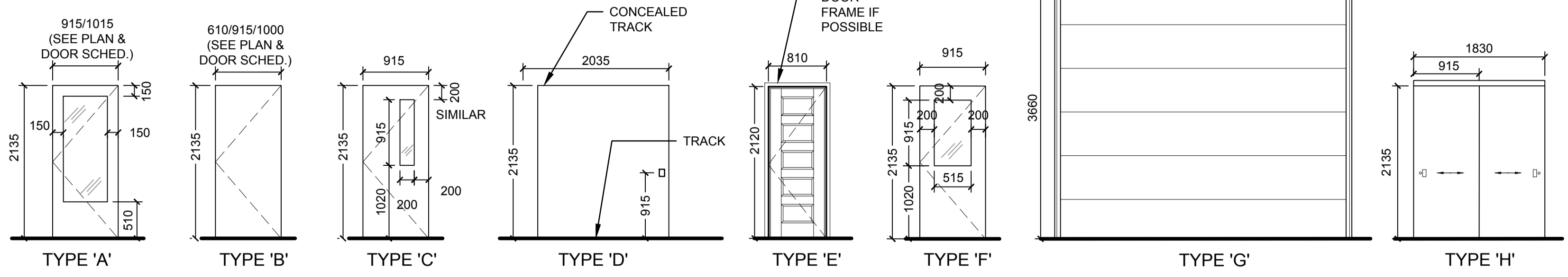
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approuvé par JT

bid
offre KG project manager
administrateur de projets

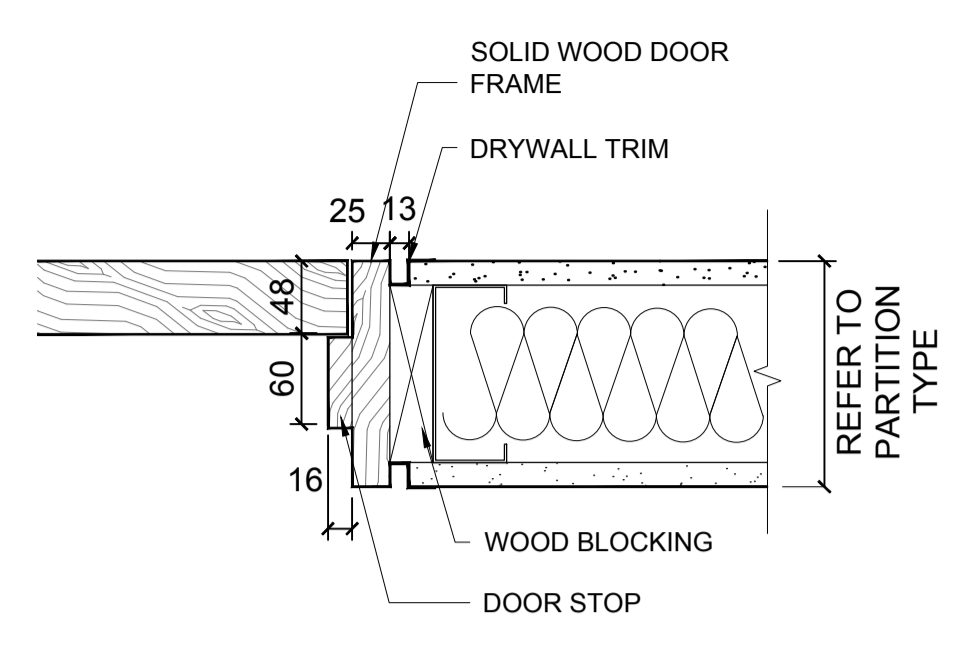
project date
date du projet 2021.07.26

project no.
no. du projet R.079827.001

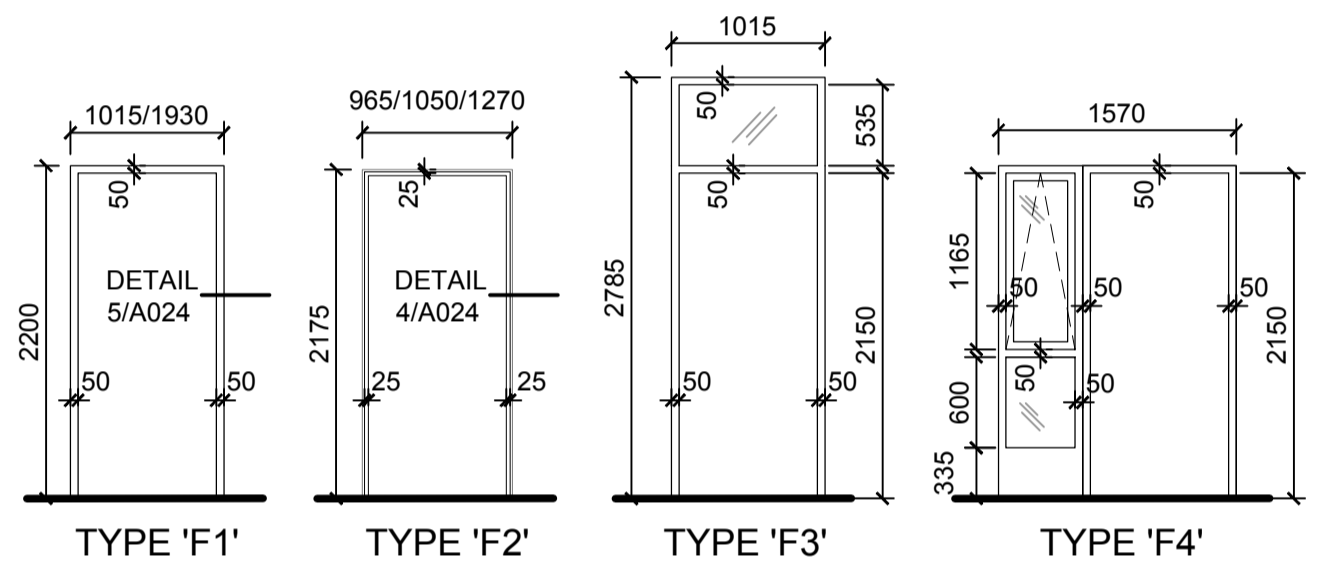
drawing no.
dessiné no. A023



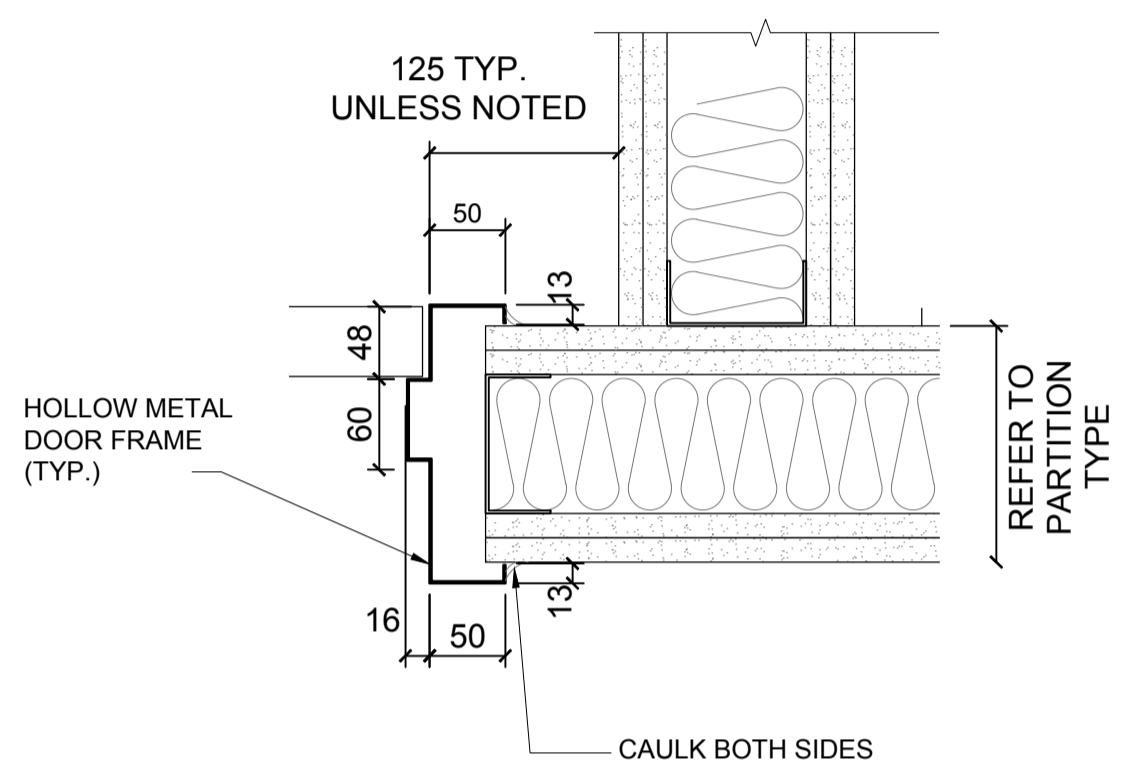
1 DOOR TYPES
A024 1:50



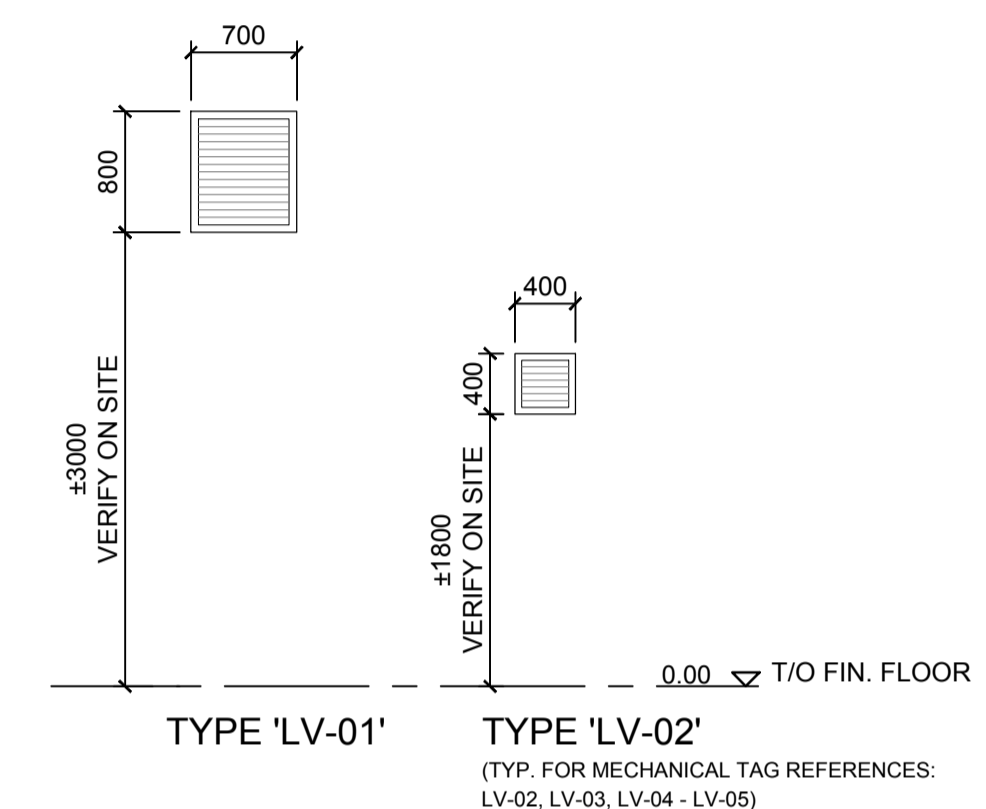
4 TYPICAL WOOD DOOR FRAME INT.
A024 1:5



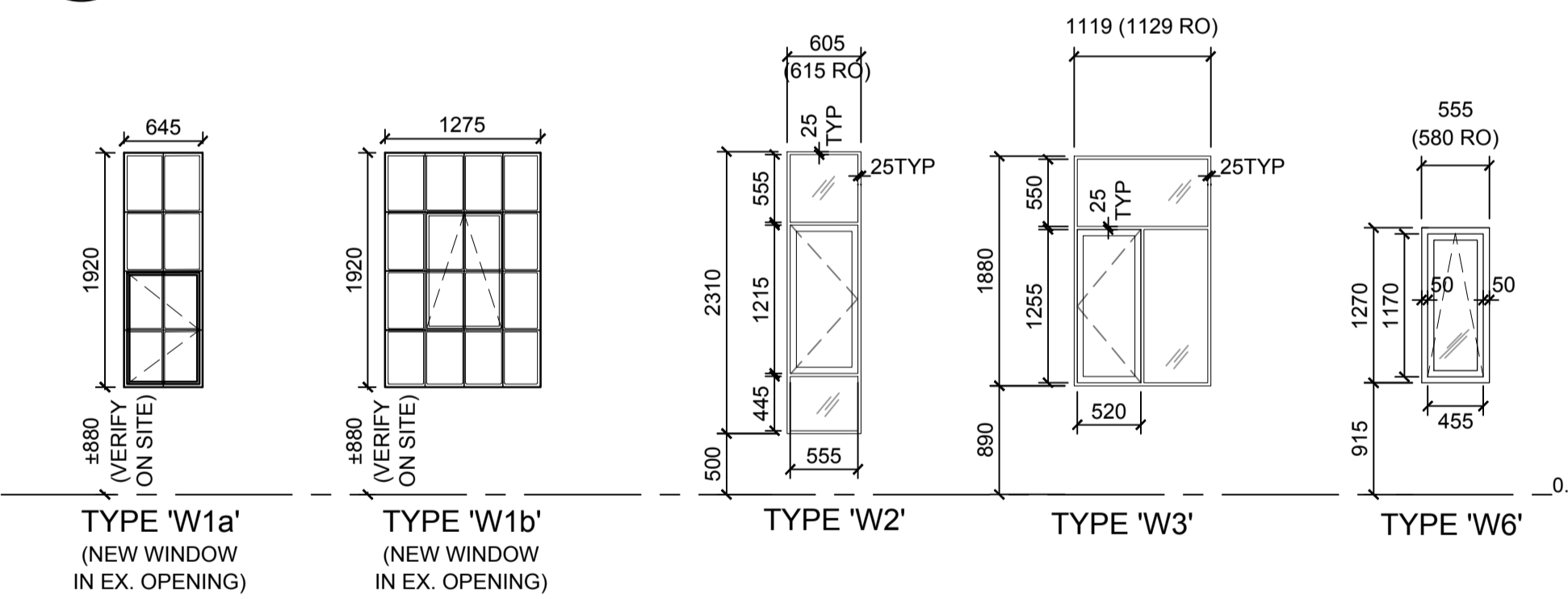
2 FRAME TYPES
A024 1:50



5 TYPICAL STEEL DOOR FRAME INT.
A024 1:5



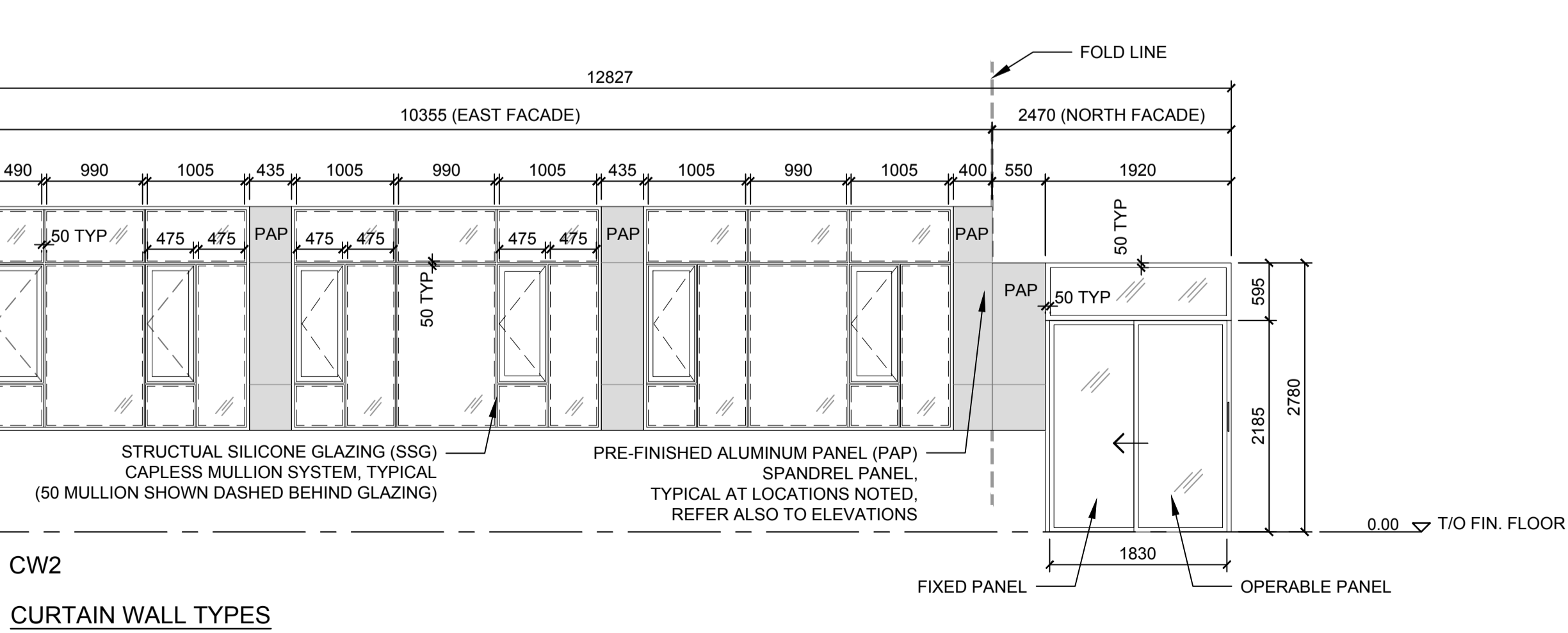
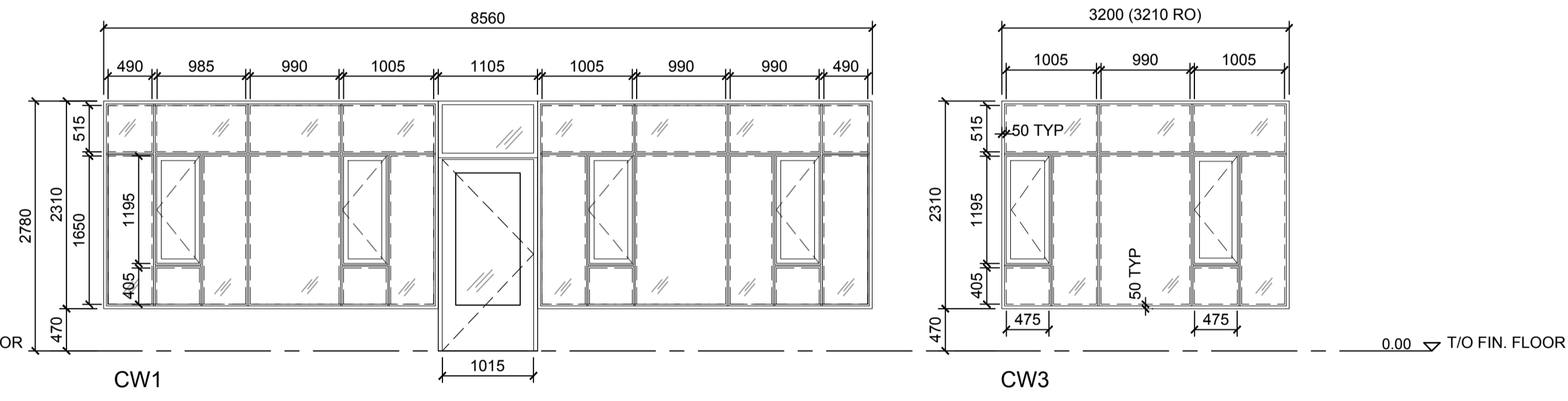
6 LOUVRE TYPES
A024 1:50



WINDOW TYPES

NOTES:
1. ALL GLAZING AT EXTERIOR WINDOWS AND DOORS TO BE DOUBLE GLAZED, LAMINATED TEMPERED GLASS, TYPICAL.
2. DOUBLE GLAZED, TEMPERED GLASS AT DIVIDED LITES OF HISTORIC REPRODUCTION STEEL WINDOWS AT TYPES W1a & W1b ACCEPTABLE.

3 WINDOW TYPES AND CURTAIN WALL TYPES
A024 1:50



CURTAIN WALL TYPES

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SEARCH & RESCUE STATION
ST. CATHARINES
**DEMOLITION, RENOVATION,
AND NEW CONSTRUCTION**

drawing title titre du dessin
DOOR AND WINDOW TYPES

drawn by dessiné par MP/KS
designed by conçu par KS/MP
approved by approuvé par JT
bid offre KG project manager administrateur de projets
project date date du projet 2021.07.26
project no. no. du projet R.079827.001
drawing no. dessiné no. A024

CONTEXT PHOTOGRAPHS - OVERALL EXISTING SITE WITH EX. BUILDINGS, STRUCTURE, INFRASTRUCTURE (DEMOLITION, REMOVALS AND DECOMMISSIONING REQUIRED ARE NOTED BELOW)



FIG. 1 - EX. BUILDINGS AS SEEN FROM EAST ALONG THE WELL AND CANAL.



FIG. 2 - EX. BUILDINGS AS SEEN FROM EAST AT DFO DOCK



FIG. 3 - EX. DOCK, DEPARTMENT OF FISHERIES & OCEANS DFO. ACCESS TO BE MAINTAINED DURING CONSTRUCTION



FIG. 4 - EX. LANDSCAPING WITH EX. RADIO TOWER TO REMAIN



FIG. 5 - EX. DIESEL TANKS TO REMAIN. PROTECT IN PLACE AND MAINTAIN ACCESS THROUGHOUT CONSTRUCTION.



FIG. 6 - EX. DIESEL TANKS. PROTECT IN PLACE AND MAINTAIN ACCESS THROUGHOUT CONSTRUCTION.



FIG. 7 - EX. HOSE BIB - TO BE REMOVED, TYP.

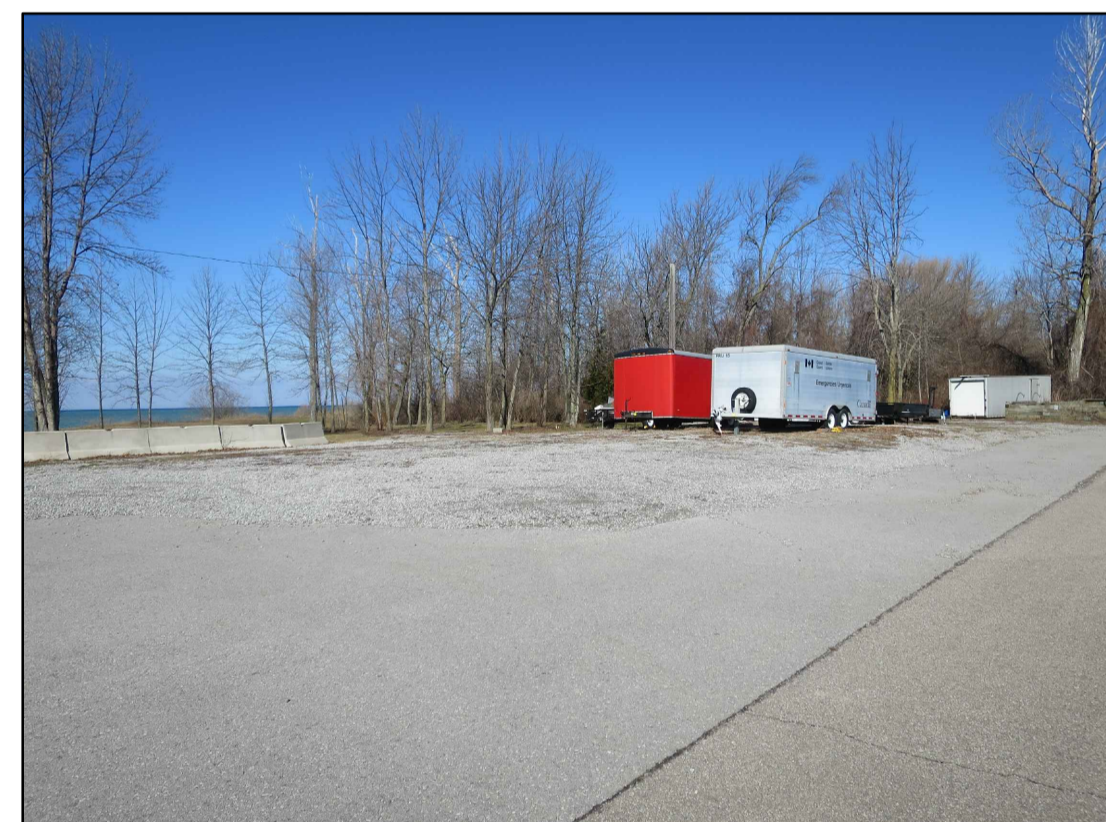


FIG. 8 - EX. SEPTIC BED TO BE DECOMMISSIONED



FIG. 9 - EX. SEPTIC TANK IN FRONT OF EAST ELEVATION OF HISTORIC BUILDING - TO BE DECOMMISSIONED, REMOVED AND AREA TO BE RELANDSCAPED WITH SOD



FIG. 10 - EX. CONCRETE BARRICADES TO BE REMOVED

1 OVERALL EX. SITE WITH EX. BUILDINGS, STRUCTURE, INFRASTRUCTURE
A030 NTS

CONTEXT PHOTOGRAPHS - EXISTING SITE STRUCTURES TO BE REMOVED FROM SITE AND/OR DEMOLISHED



FIG. 11 - EX. STORAGE CONTAINER TO BE REMOVED FROM SITE AND EX. OPEN WOOD GARDEN STRUCTURE TO BE DEMOLISHED.



FIG. 12 - EX. STORAGE CONTAINER TO BE REMOVED FROM SITE AND EXISTING CONCRETE SLAB TO BE DEMOLISHED



FIG. 13 - EX. STORAGE CONTAINER INTERIOR. ENTIRE STRUCTURE TO BE REMOVED FROM SITE. CONTENTS WILL BE REMOVED BY OWNER.

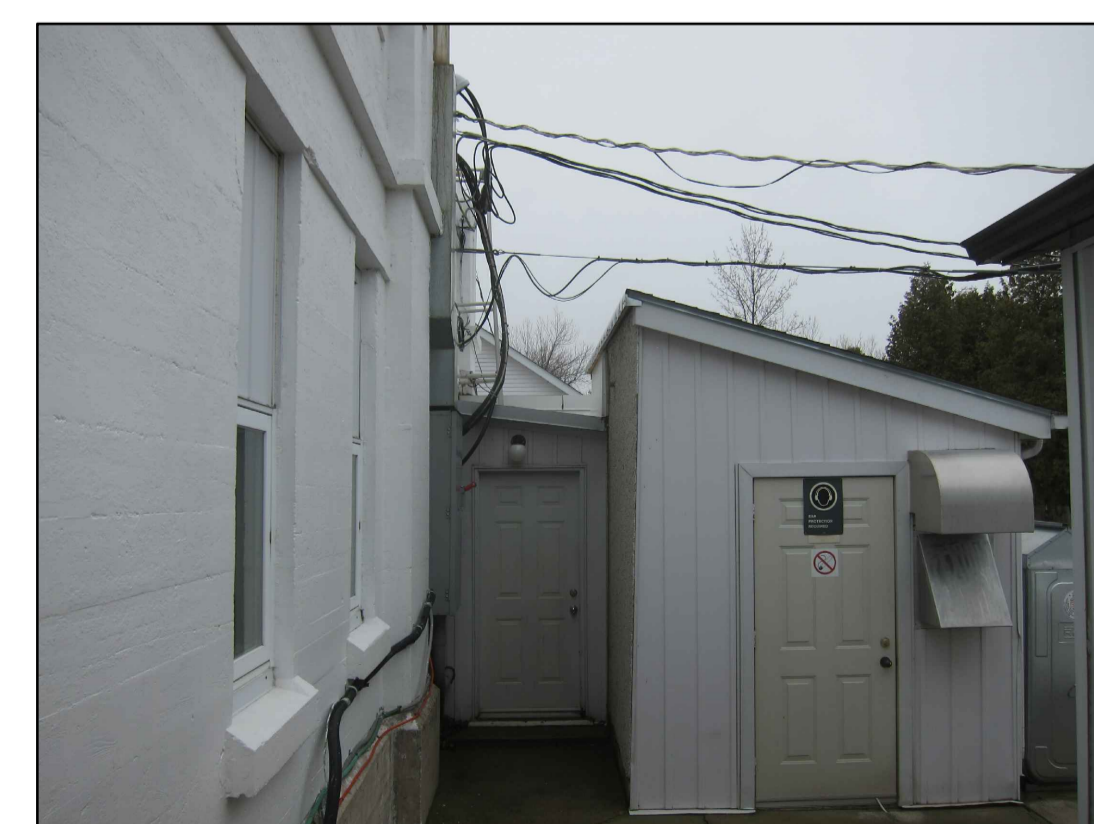


FIG. 14 - EX. GENERATOR ROOM. ENTIRE STRUCTURE TO BE DEMOLISHED

2 EX. STORAGE CONTAINER - TO BE REMOVED FROM SITE
A030 NTS

3 EX. GENERATOR ROOM
A030 NTS

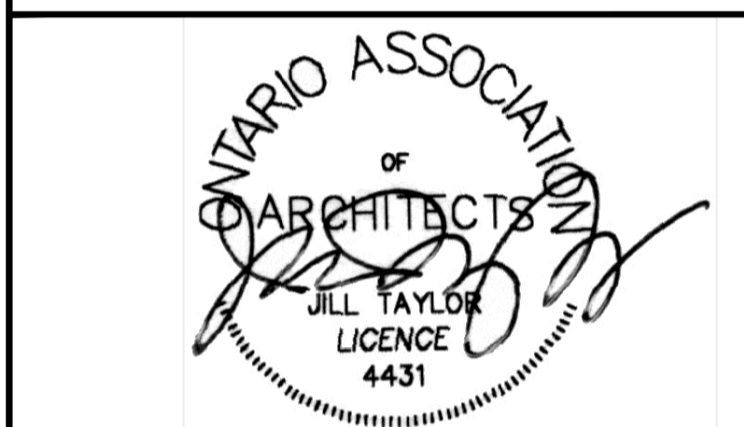
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**DEMOLITION, RENOVATION,
AND NEW CONSTRUCTION**

drawing title / titre du dessin
**CONTEXT PHOTOGRAPHS
SITE & LOCATION**

drawn by / dessiné par AK/KS

designed by / conçu par CHu/KS

approved by / approuvé par JT

bid / offre KG project manager / administrateur de projets

project date / date du projet 2021.07.26

project no. / no. du projet R.079827.001

drawing no. / dessin no. A030

CONTEXT PHOTOGRAPHS - EXISTING SITE BUILDINGS, STRUCTURES TO REMAIN



FIG. 1 - HISTORIC BUILDING EAST ELEVATION - TO BE RETAINED/ CONSERVED/ RENOVATED



FIG. 2 - HISTORIC BUILDING ENTRANCE DETAIL - EAST ELEVATION



FIG. 3 - HISTORIC BUILDING NORTH ELEVATION



FIG. 4 - HISTORIC BUILDING PARAPET DETAIL (TYPICAL)



FIG. 5 - TYPICAL EXISTING WINDOW AND PANEL TO BE REMOVED AND NEW WINDOW TO BE INSTALLED IN EXISTING OPENING



FIG. 6 - EX. PLINTH CONCRETE TO BE REPAIRED (TYPICAL)

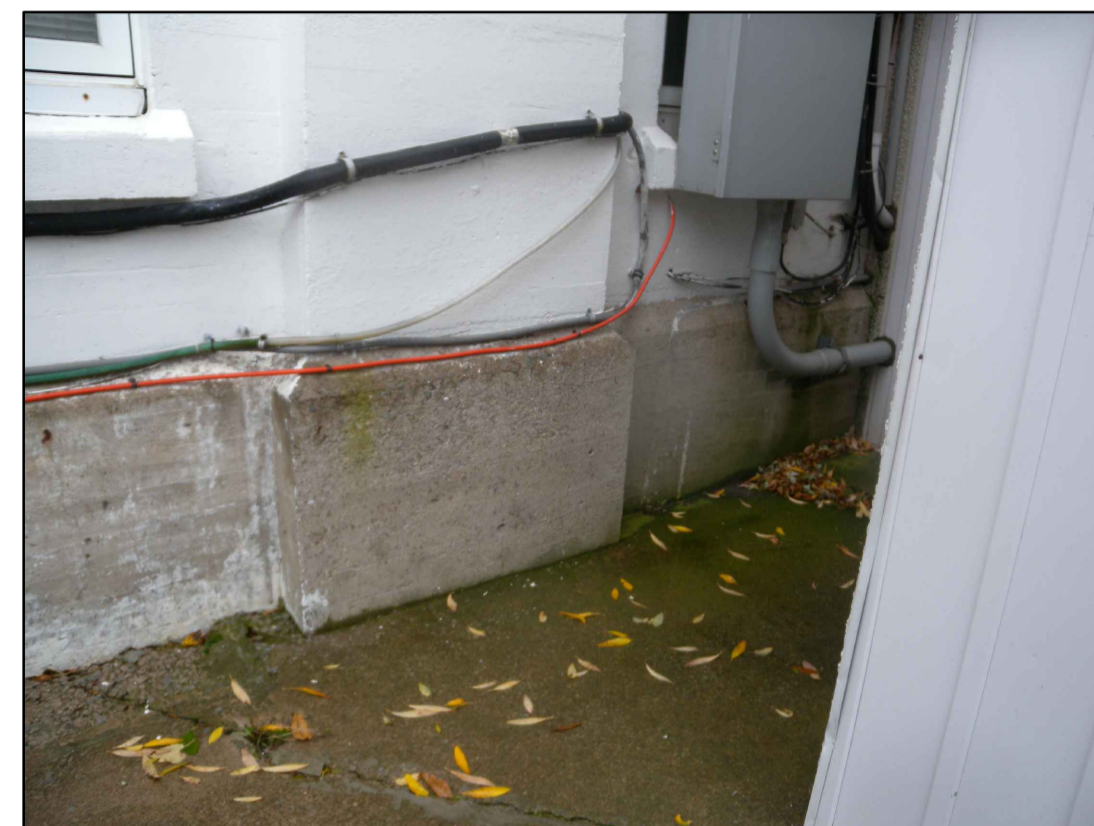


FIG. 7 - TYPICAL ELECTRICAL & MECHANICAL SERVICES TO BE REMOVED. (COORDINATE WITH DEPARTMENTAL REPRESENTATIVE.)

1 EX. HISTORIC BUILDING - TO BE RETAINED/ CONSERVED/ RENOVATED
A031 NTS



FIG. 8 - EX. EXTERIOR - TO REMAIN



FIG. 9 - EX. EXTERIOR OF HOOP HOUSE - TO REMAIN



FIG. 10 - EX. EXTERIOR OF HOOP HOUSE - TO REMAIN



FIG. 11 - INTERIOR OF HOOP HOUSE - TO REMAIN

2 EX. HOOP HOUSE - TO REMAIN
A031 NTS

CONTEXT PHOTOGRAPHS - EXISTING SITE STRUCTURES TO BE DEMOLISHED



FIG. 12 - EX. EXTERIOR - ENTIRE STRUCTURE TO BE DEMOLISHED



FIG. 13 - EX. EXTERIOR - ENTIRE STRUCTURE TO BE DEMOLISHED



FIG. 14 - EX. INTERIOR - ENTIRE STRUCTURE TO BE DEMOLISHED; CONTENTS WILL BE REMOVED BY OWNER.



FIG. 15 - EX. CONCRETE SLAB NORTH OF PAINT/ROPE LOCKER - TO BE PARTIALLY DEMOLISHED

3 EX. PAINT/ROPE LOCKER - TO BE DEMOLISHED
A031 NTS

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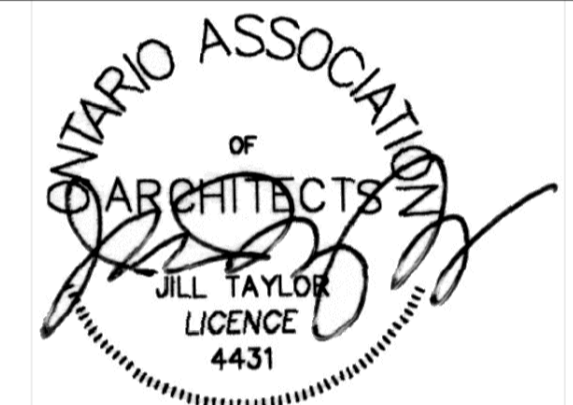
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SEARCH & RESCUE STATION
ST. CATHARINES
**DEMOLITION, RENOVATION,
AND NEW CONSTRUCTION**

drawing title / titre du dessin
CONTEXT PHOTOGRAPHS
SITE, BUILDINGS, STRUCTURES

drawn by / dessiné par AK/KS
designed by / conçu par CHu/KS
approved by / approuvé par JT
bid / offre KG project manager / administrateur de projets
project date / date du projet 2021.07.26
project no. / no. du projet R.079827.001
drawing no. / dessin no. A031

CONTEXT PHOTOGRAPHS - EXISTING SITE BUILDINGS, STRUCTURES TO BE DEMOLISHED



FIG. 1 - EX. EAST ELEVATION - ENTIRE BUILDING TO BE DEMOLISHED



FIG. 2 - EX. WEST ELEVATION - ENTIRE BUILDING TO BE DEMOLISHED



FIG. 3 - EX. SOUTH ELEVATION - ENTIRE BUILDING TO BE DEMOLISHED

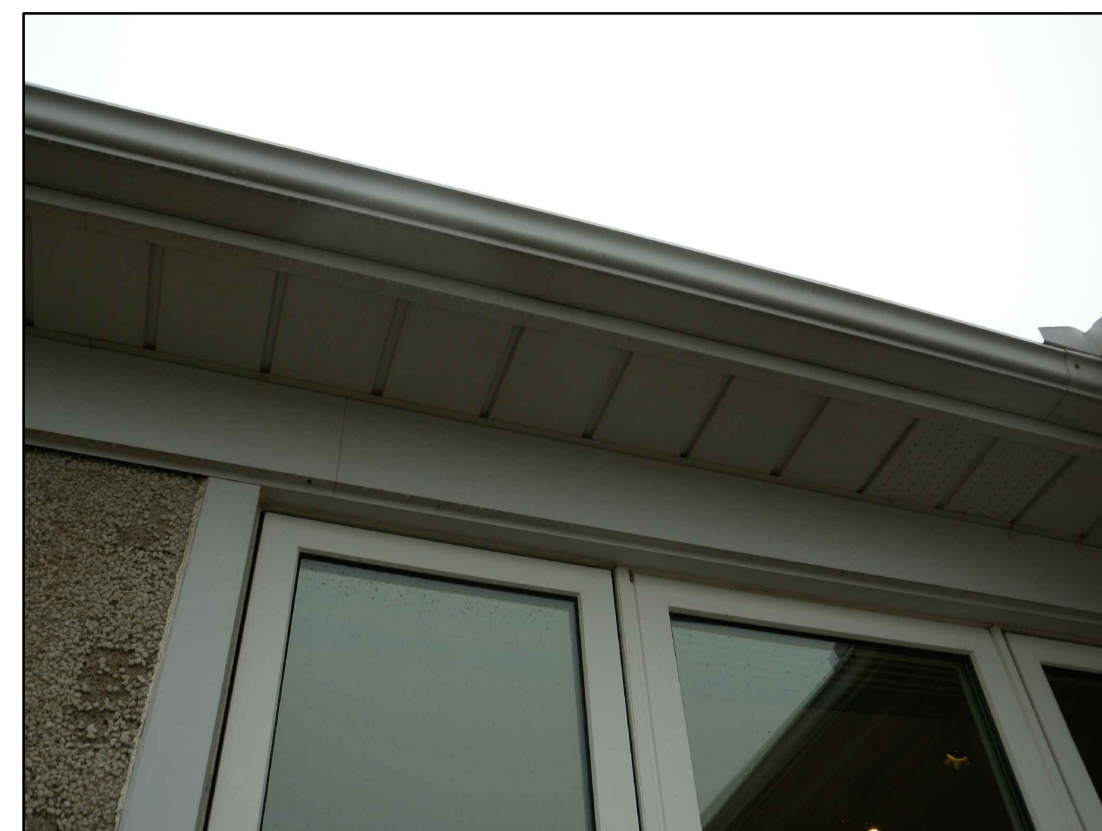


FIG. 4 - ENTIRE BUILDING TO BE DEMOLISHED



FIG. 5 - EX. EXTERIOR STAIR TO BE DEMOLISHED



FIG. 6 - EX. EXTERIOR FINISHES (TYPICAL)



FIG. 7 - EX. EXTERIOR FINISHES, DETAIL - TYPICAL



FIG. 8 - EX. TYPICAL WINDOW

1
A032 NTS
EX. SEARCH AND RESCUE OFFICE BUILDING - TO BE DEMOLISHED



FIG. 9 - EAST ELEVATION - ENTIRE BUILDING TO BE DEMOLISHED



FIG. 10 - WEST ELEVATION - TO BE DEMOLISHED (PROTECT HISTORIC BUILDING DURING DEMOLITION)



FIG. 11 - EX. ENTRANCE - ENTIRE BUILDING TO BE DEMOLISHED

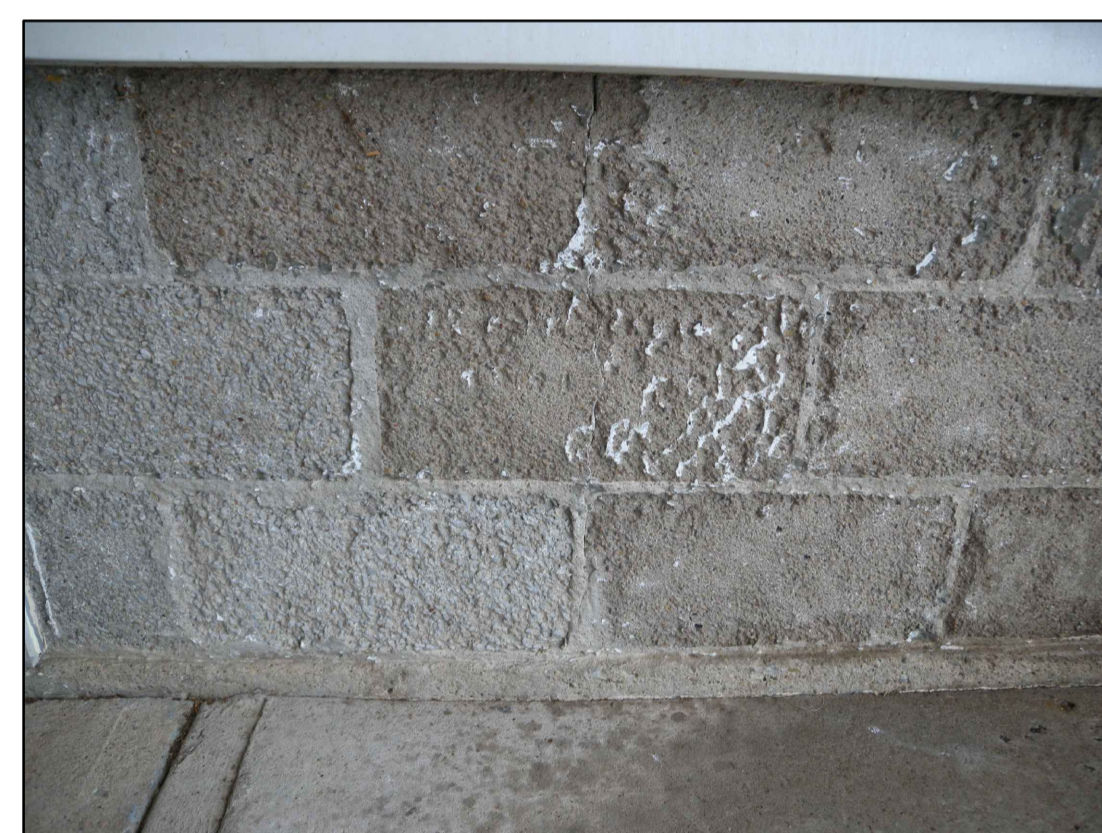


FIG. 12 - EX. PLINTH. ENTIRE BUILDING TO BE DEMOLISHED.

2
A032 NTS
EX. BREEZEWAY BUILDING - TO BE DEMOLISHED



FIG. 13 - EX. EXTERIOR - ENTIRE STRUCTURE TO BE DEMOLISHED



FIG. 14 - EX. INTERIOR - ENTIRE STRUCTURE TO BE DEMOLISHED (OWNER WILL REMOVE MATERIALS).



FIG. 15 - EX. EXTERIOR - ENTIRE STRUCTURE TO BE DEMOLISHED

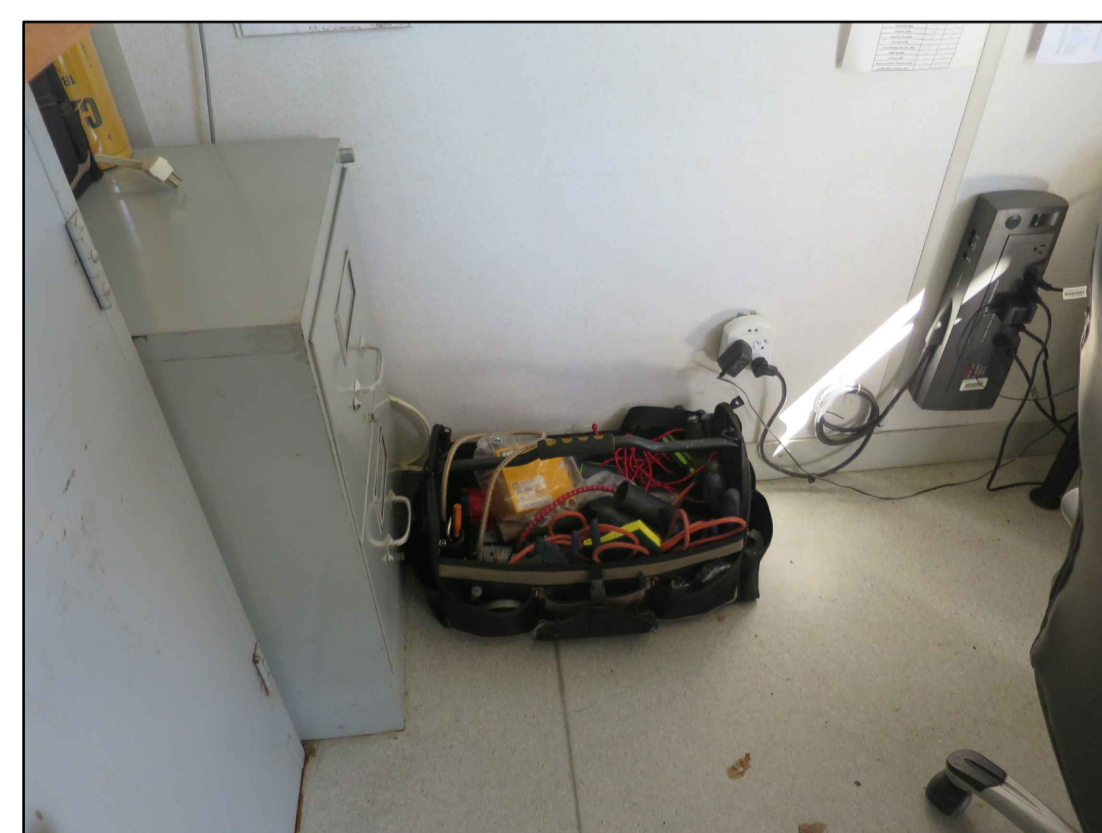


FIG. 16 - EX. INTERIOR - ENTIRE STRUCTURE TO BE DEMOLISHED. OWNER WILL REMOVE MATERIAL.

3
A032
EX. STORAGE BUILDING - TO BE DEMOLISHED

4
A032
EX. ENGINEER'S OFFICE - TO BE DEMOLISHED

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DEMOLITION, RENOVATION,
AND NEW CONSTRUCTION**

drawing title
titre du dessin
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EX. SITE, BUILDINGS,
STRUCTURES**

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approuvé par JT

bid
offre KG project manager
administrateur de projets

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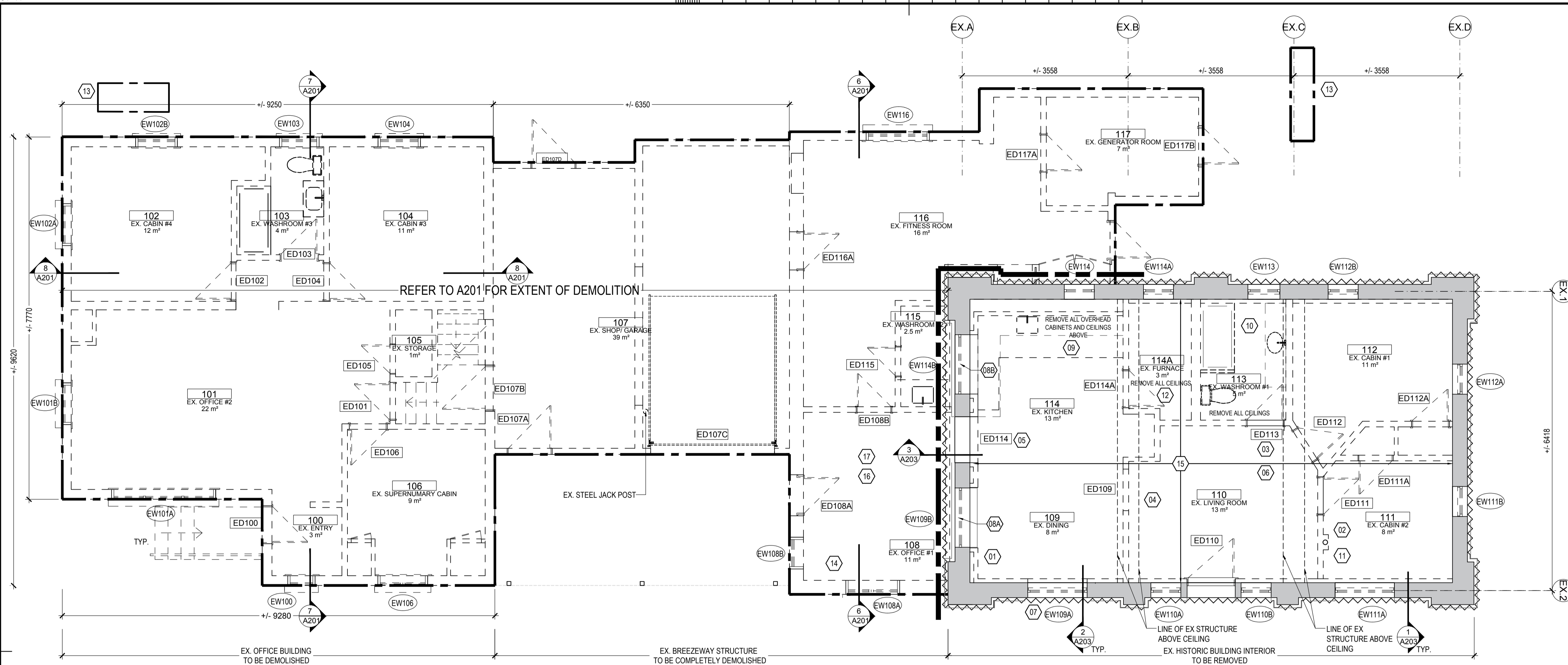
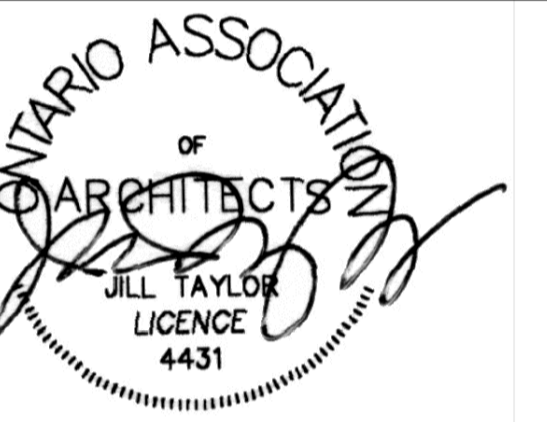
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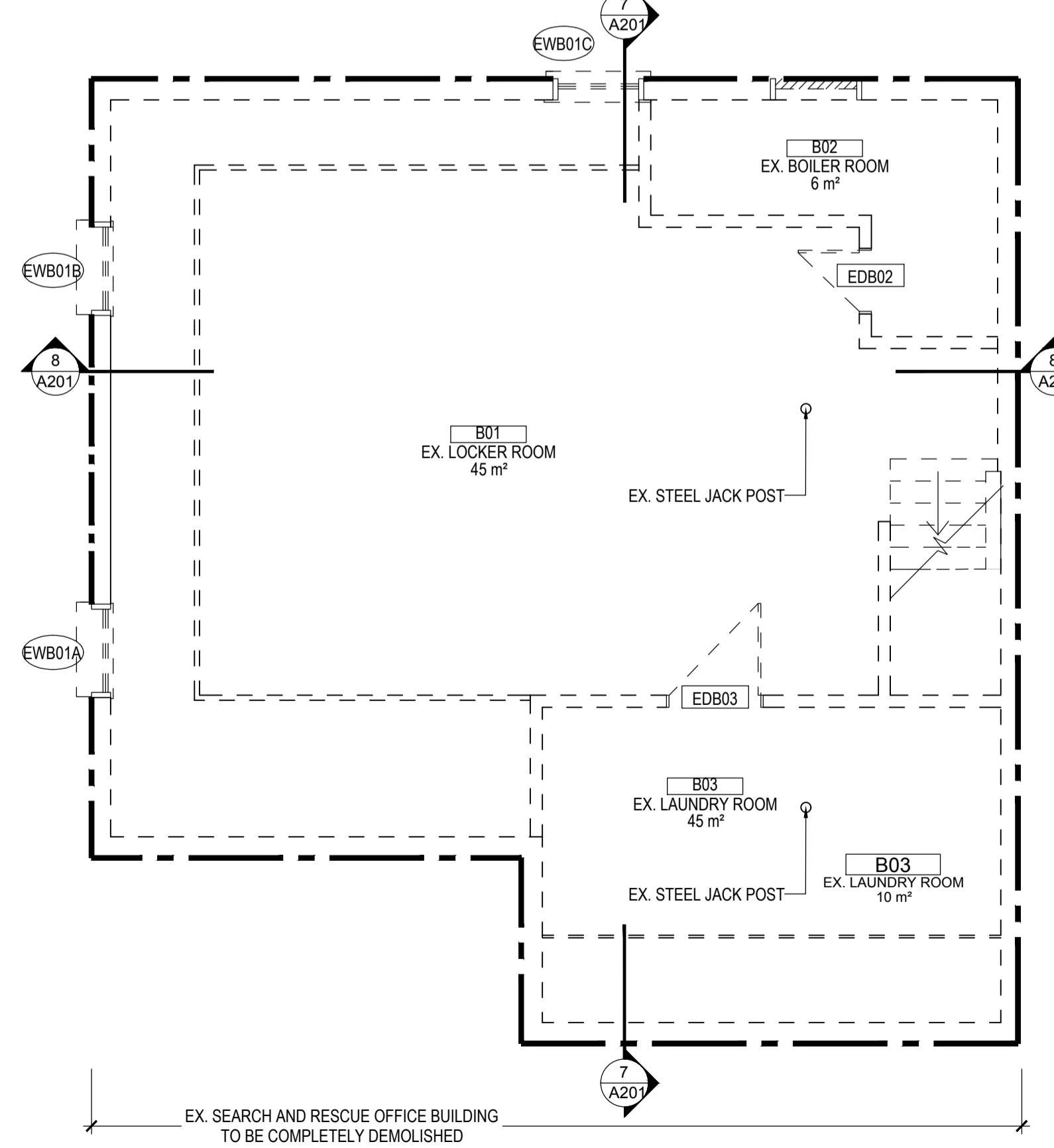
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1 GROUND FLOOR DEMOLITION OF EX. OFFICE BUILDING & CONNECTING LINKS/ INTERIOR REMOVALS WITHIN HISTORIC BUILDING

A200 1:50

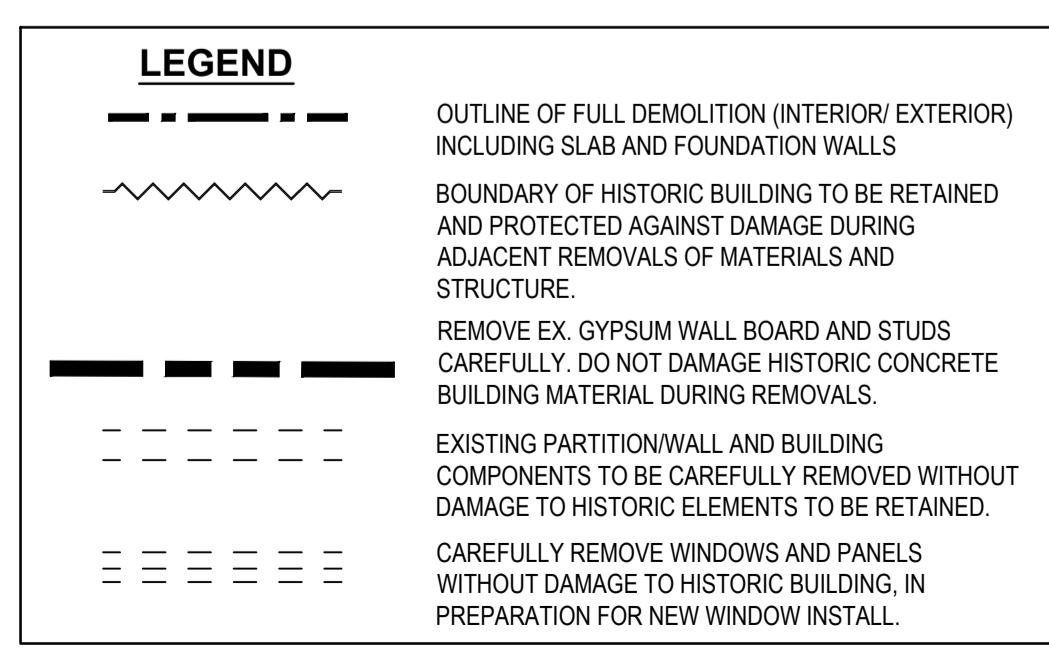


2 BASEMENT DEMOLITION PLAN OF EX. OFFICE BUILDING INCL. SLAB & FOUNDATION WALLS

A200 1:50

- ### DEMOLITION AND PROTECTION NOTES
- 01 **INTERIOR SIDE OF EXTERIOR WALLS**
DEMOLITION AT EXTERIOR WALLS OF HISTORIC BUILDING TO INCLUDE THE REMOVAL AND DISPOSAL OF GYPSUM WALL BOARD, VAPOUR BARRIER, INSULATION AND 57MM STEEL STUDS BACK AND ALL OTHER MATERIALS TO INTERIOR OF CONCRETE FACE.
 - 02 **PARTITIONS AND CEILINGS**
• REMOVE AND DISPOSE OF ALL PARTITIONS AND CEILINGS - TO INCLUDE BUT NOT LIMITED TO: METAL AND WOOD STUDS, ELECTRICAL WIRING AND JUNCTION BOXES, MECHANICAL DUCTWORK, GWB AND PLASTER ON LATHE CONSTRUCTION.
• REMOVE ALL PARTITIONS ABOVE CEILINGS, AND HIDDEN CEILINGS ABOVE FINISHED CEILING.
 - 03 **EX. DOORS**
REMOVE AND SALVAGE EXISTING WOOD PANEL DOORS AND HARDWARE, INCLUDING HINGES.
 - 04 **SECURITY/ TELECOMMUNICATIONS**
SEE ELECTRICAL DEMOLITION PLAN. DEMOLITION TO INCLUDE: EX. THERMOSTATS, LIGHTS, MOTION DETECTORS, RADIO EQUIPMENT, SECURITY DEVICES. COORDINATE DEMOLITION TO ENSURE CONTINUITY OF SERVICE TO TEMPORARY ACCOMMODATION TRAILERS FOR STAFF ON SITE PRIOR TO ANY REMOVAL. RADIO EQUIPMENT TO BE REMOVED BY DEPARTMENTAL REPRESENTATIVE - COORDINATE PRIOR TO START OF DEMOLITION.
 - 05 **FINISHES**
REMOVE AND DISPOSE OF CARPET, CERAMIC WALL OR FLOOR TILE, AND OTHER FLOORING THROUGHOUT. DISPOSE OF WINDOW SHADES, AND HARDWARE AND OTHER INTERIOR FITTINGS FOUND ON SITE.
 - 06 **REMOVAL OF INTERIOR COMPONENTS FOR SALVAGE/ RE-CREATION**
FOR THE PURPOSE OF MATCHING/RECREATING NEW BUILDING COMPONENTS WITH EXISTING, REMOVE AND SALVAGE WOOD PANEL DOORS, WOOD DOOR CASINGS, WOOD BASEBOARD.
 - 07 **REMOVAL OF EXTERIOR WINDOWS**
CAREFULLY REMOVE ALL EX. DOUBLE GLAZED WINDOWS AND EX. INSULATED TRANSOMS ABOVE. PROVIDE A CLEAN OPENING FOR THE INSTALLATION OF NEW HISTORIC STEEL WINDOWS TO EXTEND FULL HEIGHT AND WIDTH OF OPENINGS.
 - 08A **STEEL SASH WINDOW FOR SALVAGE**
CAREFULLY REMOVE EX. GYPSUM WALL BOARD/BUILD OUT TO BOTH SIDES AND SALVAGE ORIGINAL STEEL SASH WINDOW. REMOVE FOR REFERENCE PURPOSES FOR NEW HISTORIC STEEL WINDOWS TO MATCH EXISTING. CONTACT DEPARTMENTAL REPRESENTATIVE FOLLOWING REMOVAL. PROTECT HISTORIC BUILDING.
 - 08B **STEEL SASH WINDOW FOR SALVAGE/ RESTORATION/ REINSTATEMENT**
REMOVE EX. GYPSUM WALL BOARD/BUILD OUT TO BOTH SIDES AND SALVAGE ORIGINAL STEEL SASH WINDOW. SALVAGED WINDOW TO BE REPAIRED, RESTORED, REINSTATED WITH GLAZING AT SAME LOCATION BUT AS AN INTERIOR WINDOW. PROTECT HISTORIC BUILDING.
 - 09 **KITCHEN AND WASHROOM PLUMBING AND MILLWORK**
REMOVE ALL KITCHEN AND WASHROOM MILLWORK. REMOVE ALL FIXTURES. REFER TO MECHANICAL DRAWINGS FOR EXTENT OF PLUMBING REMOVAL.

- 10 **WASHROOM FIXTURES & ACCESSORIES**
REMOVE ALL EX. WASHROOM FIXTURES AND ACCESSORIES. REFER TO MECHANICAL DRAWINGS FOR EXTENT.
- 11 **DECOMMISSIONED RAINWATER DRAIN**
FORMER RAINWATER ROOF DRAIN AND PIPE WAS DECOMMISSIONED (AND CUT & REMOVED AT INTERIOR). ENSURE NO REMNANT AT CEILING SPACE INTERFERES WITH NEW SCOPE OF WORK. REVIEW EX. CONDITIONS AND MODIFY TO SUIT AS REQUIRED.
- 12 **FURNACE**
REFER TO MECHANICAL DRAWINGS FOR REMOVAL OF FURNACE AND DUCT WORK.
- 13 **HEATING OIL TANK AND CONCRETE PADS**
REFER TO HAZARDOUS MATERIALS SPECIFICATIONS FOR REMOVAL.
- 14 **SECURITY GATE CONTROLS**
• COORDINATE WITH DEPARTMENTAL REPRESENTATIVE TO ENSURE OPERATION OF EX. SITE ACCESS SECURITY GATE CONTROL THROUGHOUT CONSTRUCTION.
• CONFIRM REQUIREMENT WITH DEPARTMENTAL REPRESENTATIVE OF GATE CONTROL ADJACENT TO EX. & NEW SITE BUILDINGS.
- 15 **CONCRETE SLAB DEMOLITION**
SCAN EXISTING SLAB TO CONFIRM LOCATION OF EXISTING INCOMING SERVICES PRIOR TO DEMOLITION. REMOVE ALL EXISTING SERVICES. CUT SLAB FOR INSTALLATION OF NEW SERVICES. INSPECT CONDITION OF EX. SLAB. CHECK LEVEL OF FINISHED SLAB AND REPORT ON CONDITION TO DEPARTMENTAL REPRESENTATIVE ANY VARIATION IN THE FINISHED SURFACE GREATER THAN 6MM.
- 16 **BREEZEWAY DEMOLITION**
DEMOLITION AND REMOVAL OF EX. BREEZEWAY STRUCTURE TO BE UNDERTAKEN CAREFULLY WITHOUT DAMAGE TO ADJACENT EX. HISTORIC BUILDING. ANY DAMAGES INCURRED TO BE PATCHED, REPAIRED, AND RESTORED
- 17 **BREEZEWAY DEMOLITION & AS FOUND MEASUREMENTS OF EX. HISTORIC BUILDING SOUTH ELEVATION**
UPON DEMOLITION AND REMOVAL OF EX. BREEZEWAY STRUCTURE AND EX. GWB/BUILD OUT ALONG SOUTH ELEVATION OF EX. HISTORIC BUILDING, TAKE AS FOUND MEASUREMENTS OF ENTIRE ELEVATION INCLUDING EX. DOOR AND WINDOW OPENINGS. REPORT DIMENSIONS TO DEPARTMENTAL REPRESENTATIVE AND ANY DIMENSIONAL DISCREPANCIES FROM DRAWINGS.



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**DEMOLITION, RENOVATION,
AND NEW CONSTRUCTION**

drawing title
titre du dessin
**DEMOLITION AND PARTIAL
RESTORATION PLANS -
EX. BASEMENT & GROUND FLOORS**
EX. LIVING QUARTERS & OFFICE

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dessiné par AK/KS
designed by
conçue par CHu/KS

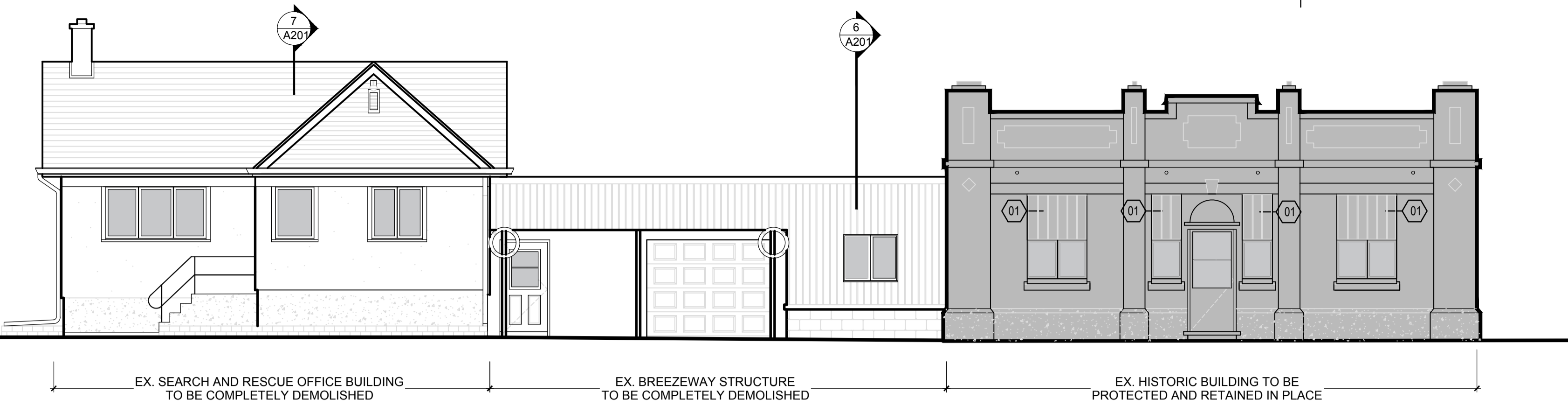
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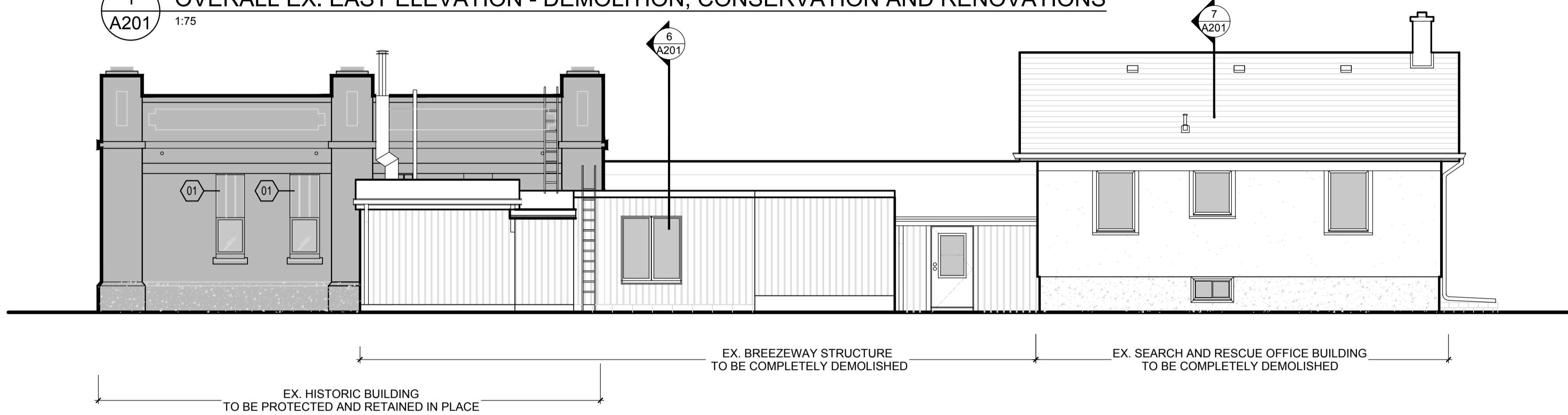
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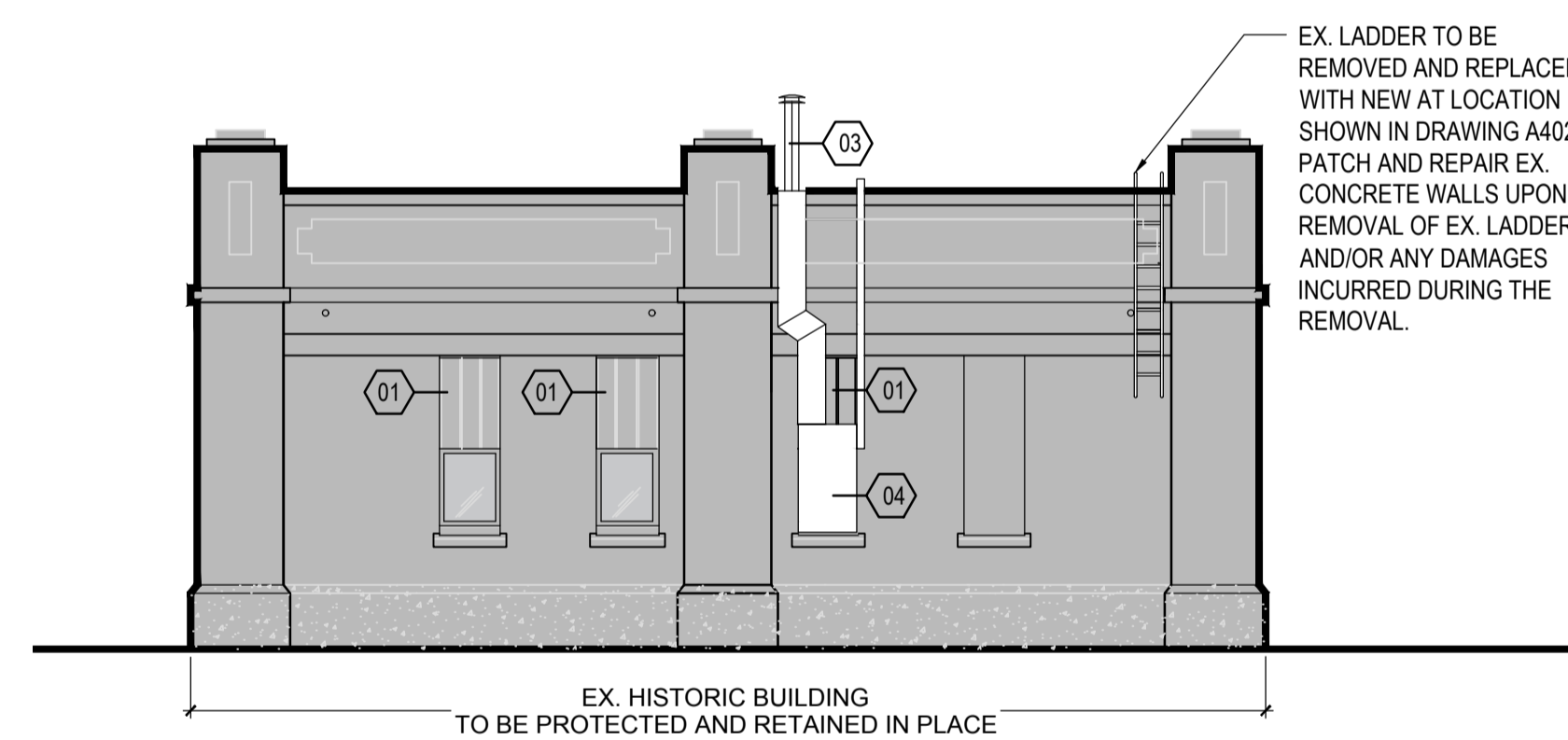
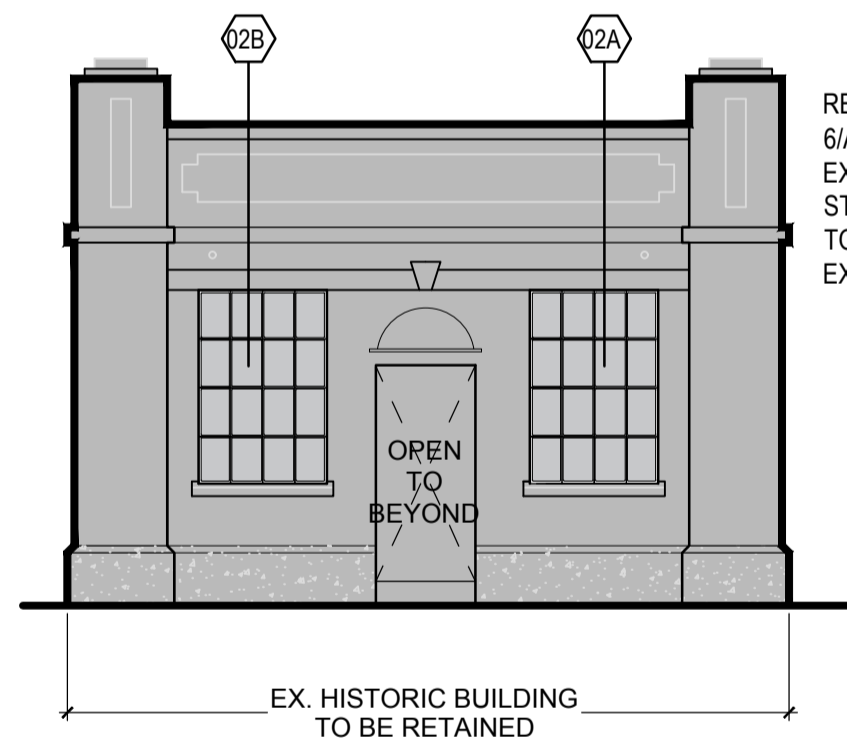
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1 OVERALL EX. EAST ELEVATION - DEMOLITION, CONSERVATION AND RENOVATIONS
A201 1:75



2 OVERALL EX. WEST ELEVATION - DEMOLITION, CONSERVATION AND RENOVATIONS
A201 1:75



**EX. HISTORIC BUILDING:
EX. ELEVATION DEMOLITION NOTES**

- 01 **EX. EXTERIOR WINDOWS**
CAREFULLY REMOVE ALL EX. DOUBLE GLAZED WINDOWS AND INSULATED TRANSOMS ABOVE. PROVIDE A CLEAN OPENING FOR THE INSTALLATION OF NEW HISTORIC STEEL WINDOWS TO EXTEND FULL HEIGHT AND WIDTH OF OPENINGS. PROTECT HISTORIC BUILDING DURING REMOVALS.
 - 02A **EX. STEEL SASH WINDOW FOR SALVAGE**
CAREFULLY REMOVE EX. GYPSUM WALL BOARD/BUILD OUT TO BOTH SIDES AND SALVAGE ORIGINAL STEEL SASH WINDOW. REMOVE FOR REFERENCE PURPOSES FOR NEW HISTORIC STEEL WINDOWS TO MATCH EXISTING. CONTACT DEPARTMENTAL REPRESENTATIVE FOLLOWING REMOVAL. PROTECT HISTORIC BUILDING.
 - 02B **EX. STEEL SASH WINDOW FOR SALVAGE/ RESTORATION/ REINSTATEMENT**
CAREFULLY REMOVE EX. GYPSUM WALL BOARD/BUILD OUT TO BOTH SIDES AND SALVAGE ORIGINAL STEEL SASH WINDOW. SALVAGED WINDOW TO BE REPAIRED, RESTORED, REINSTATED WITH GLAZING AT SAME LOCATION BUT AS AN INTERIOR WINDOW. PROTECT HISTORIC BUILDING.
 - 03 **EX. FURNACE**
REFER TO MECHANICAL DRAWINGS FOR REMOVAL OF EX. FURNACE AND DUCTING.
 - 04 **EX. ELECTRICAL**
REFER TO ELECTRICAL DRAWINGS FOR REMOVAL OF EX. ELECTRICAL PANEL. ALLOW FOR REPAIRS AT EXTERIOR FACE OF BUILDING.
- EX. HISTORIC BUILDING TO BE RETAINED AND PROTECTED IN PLACE

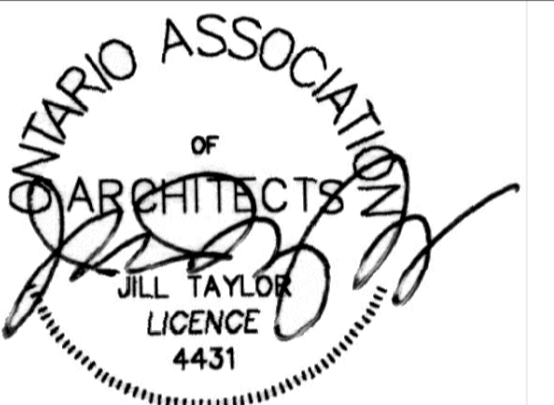
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TO EXISTING BUILDINGS AND
STRUCTURES -**

ELEVATIONS AND SECTIONS

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dessiné par AK/KS

designed by
conçu par Chu/KS

approved by
approuvé par JT

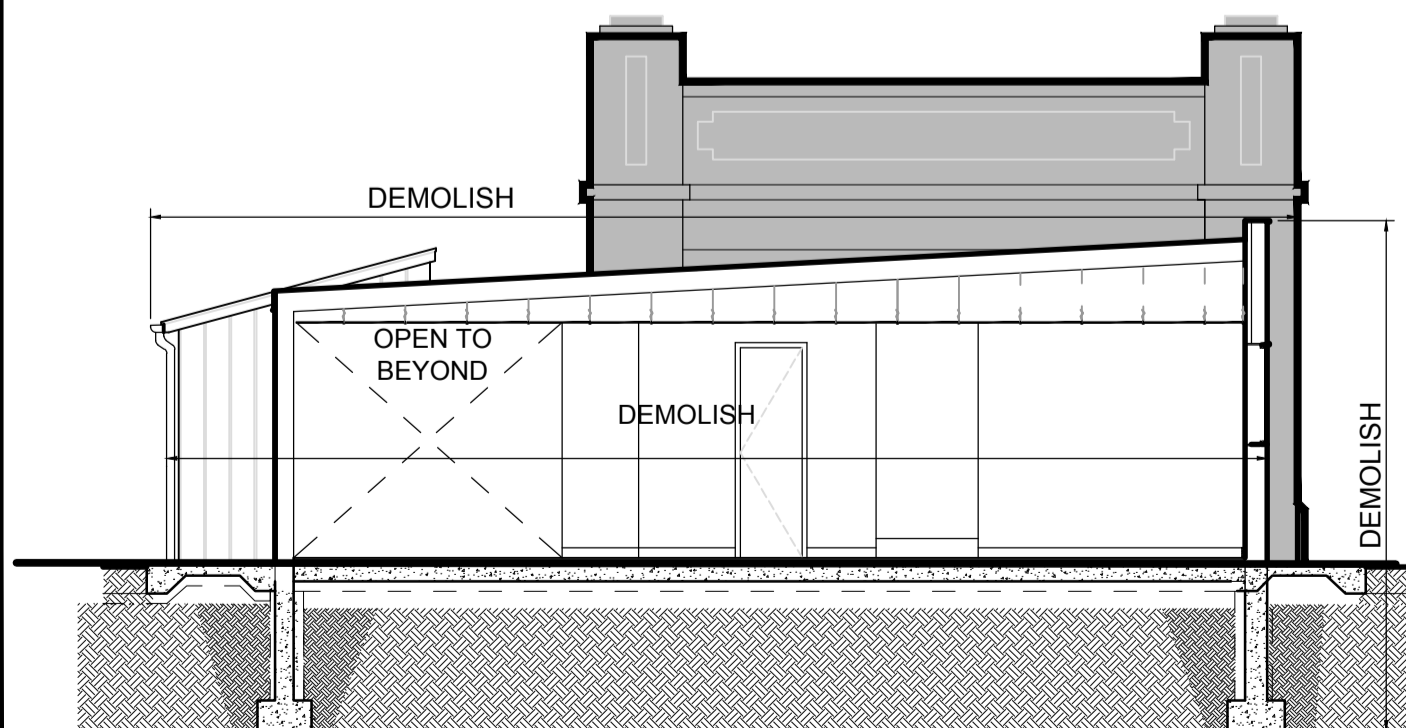
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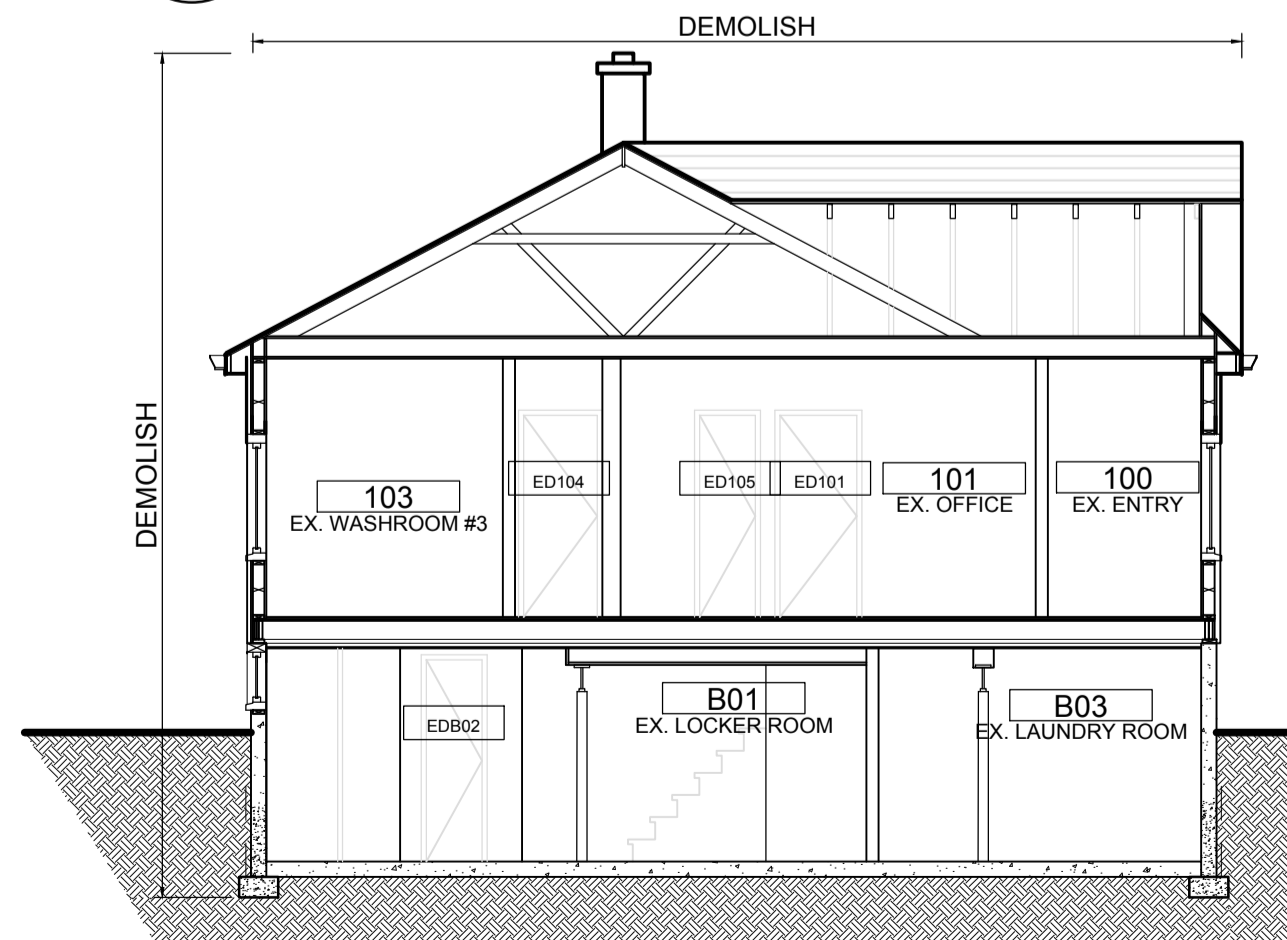
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3 OVERALL EX. NORTH ELEVATION
A201 1:75 - DEMOLITION AND RENOVATIONS



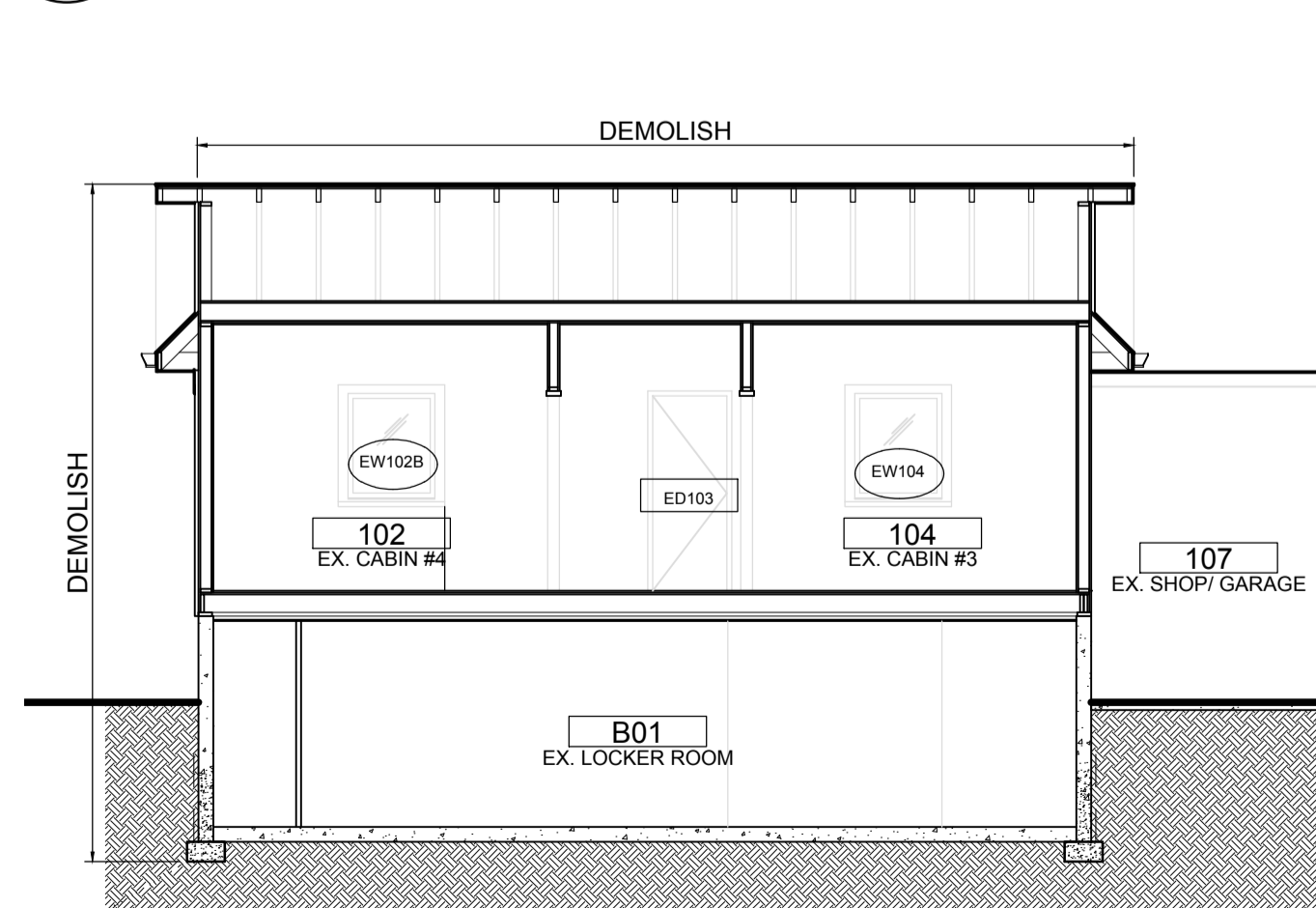
6 EX. SECTION - EX. BREEZEWAY - DEMOLITION
A201 1:75

4 EX. SOUTH ELEVATION
A201 1:75 (WITH EX. BREEZEWAY ADDITION NOT SHOWN) - RENOVATIONS



7 EX. SECTION - EX. OFFICE BUILDING - DEMOLITION
A201 1:75 TO BE COMPLETELY DEMOLISHED

5 EX. WEST ELEVATION, EX. HISTORIC BUILDING
A201 1:75 (WITH EX. ADDITION NOT SHOWN) - RENOVATIONS



8 EX. SECTION - EX. OFFICE BUILDING - DEMOLITION
A201 1:75 TO BE COMPLETELY DEMOLISHED



FIG. 1 - EX. LIGHTHOUSE KEEPER'S DWELLING (HISTORIC BUILDING) LIVING ROOM

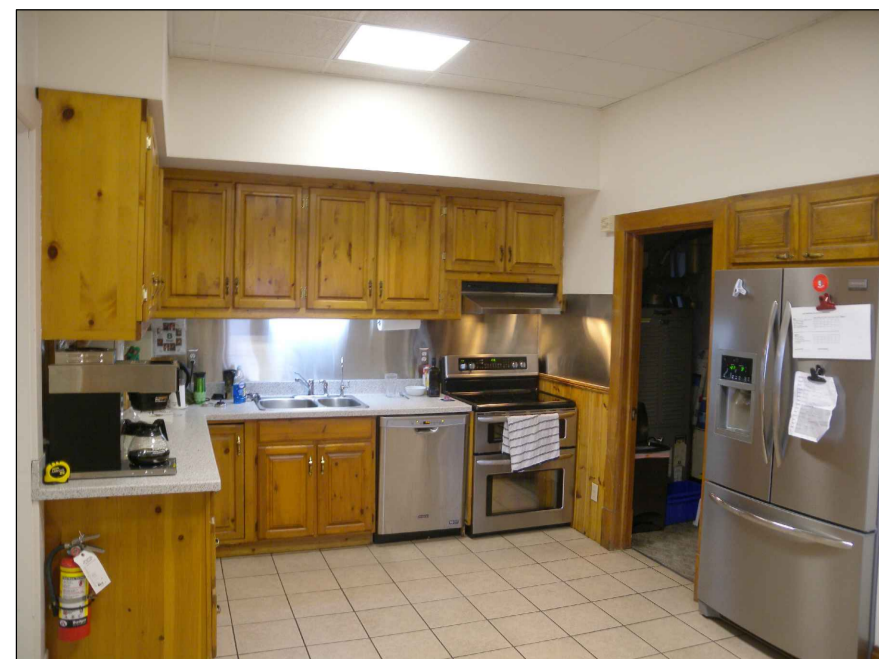


FIG. 2 - EX. LIGHTHOUSE KEEPER'S DWELLING (HISTORIC BUILDING) KITCHEN



FIG. 3 - EX. SEARCH AND RESCUE OFFICE



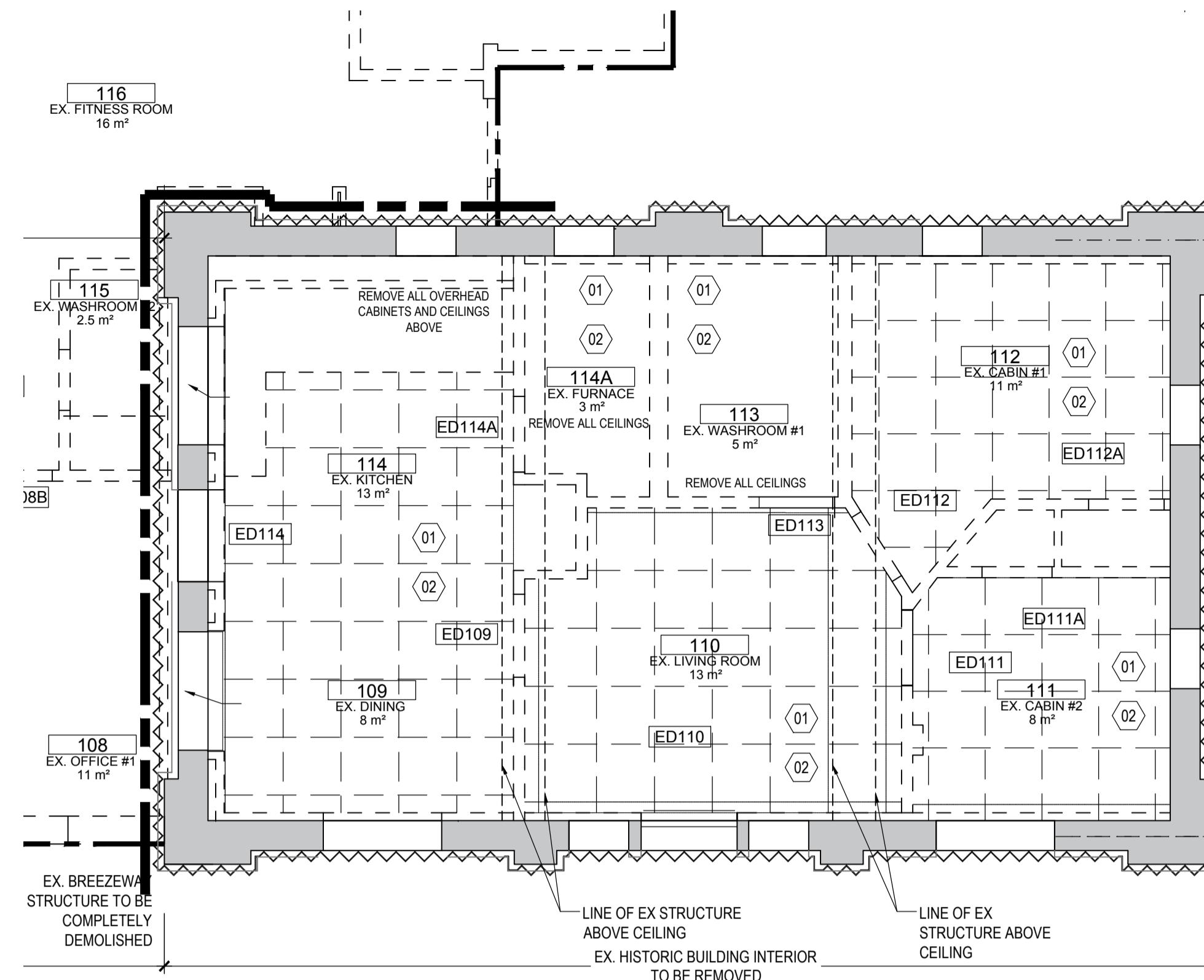
FIG. 4 - EX. BREEZEWAY

HISTORIC BUILDING: RCP DEMOLITION NOTES

- 01 **EX. CEILING**
REMOVE AND DISPOSE OF ALL EX. ACOUSTIC TILE CEILING, GRID, GWB CEILING AND EVERYTHING MOUNTED INTO THE CEILING, INCLUDING: EX. LIGHTS, DIFFUSERS, AND SMOKE/HEAT DETECTORS (ALSO EX. CEILINGS ABOVE EXISTING CEILINGS).
- 02 **ABOVE EX. CEILING**
DEMOLITION ABOVE EX. CEILING TO U/S OF EX. CONCRETE DECK, TO INCLUDE THE REMOVAL AND DISPOSAL OF THE FOLLOWING EXISTING COMPONENTS/ITEMS: MISCELLANEOUS INSULATION, DUCTWORK AND HANGERS, WIRING, FURRING, WOOD FRAMING, MISCELLANEOUS GYPSUM WALL BOARD AND MOULDING, MISCELLANEOUS METALS AND TRACK LIGHTING.

LEGEND

- OUTLINE OF EXTENT OF DEMOLITION
- ~~~~~ BOUNDARY OF EX. 1930S BUILDING TO REMAIN AND BE PROTECTED DURING DEMOLITION
- REMOVE EX. GYPSUM WALL BOARD AND STUDS. EXISTING BUILDING SUBSTRATE TO REMAIN AND NOT TO BE DAMAGED DURING REMOVALS. CAREFULLY REMOVE EX. STUDS AND DRYWALL. DO NOT DAMAGE EX. CONCRETE SUBSTRATE DURING REMOVAL.
- EXISTING PARTITION WALL AND BUILDING COMPONENTS TO BE DEMOLISHED
- EXISTING ACOUSTIC CEILING TILES TO BE DEMOLISHED.
- EX. HISTORIC BUILDING TO BE RETAINED AND PROTECTED IN PLACE



2 EX. REFLECTED CEILING PLAN, EX. HISTORIC BUILDING - DEMOLITION
1:50 (EXISTING HISTORIC BUILDING)

1 IMAGES OF EX. CEILING ASSEMBLIES TO BE DEMOLISHED
A202 NTS

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project title
titre du projet
PORT WELLER
DEPARTMENT OF FISHERIES AND OCEANS
SEARCH AND RESCUE STATION

DEMOLITION, RENOVATION, AND NEW CONSTRUCTION

drawing title
titre du dessin
DEMOLITION REFLECTED CEILING PLAN AND ROOF PLAN

EX. LIVING QUARTERS BUILDING & BREEZEWAY

drawn by
dessiné par AK/KS

designed by
conçu par CHu

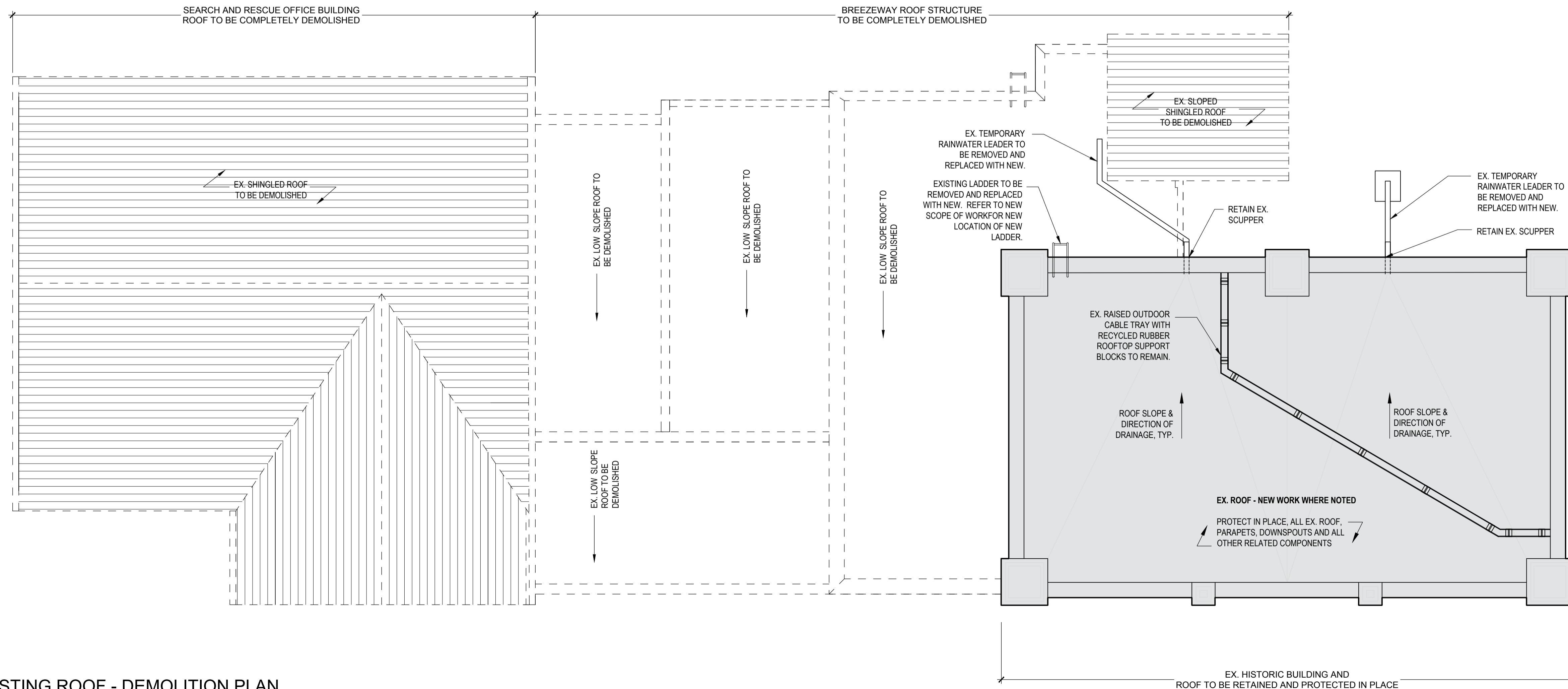
approved by
approuvé par JT

bid offer
offre KG project manager
administrateur de projets

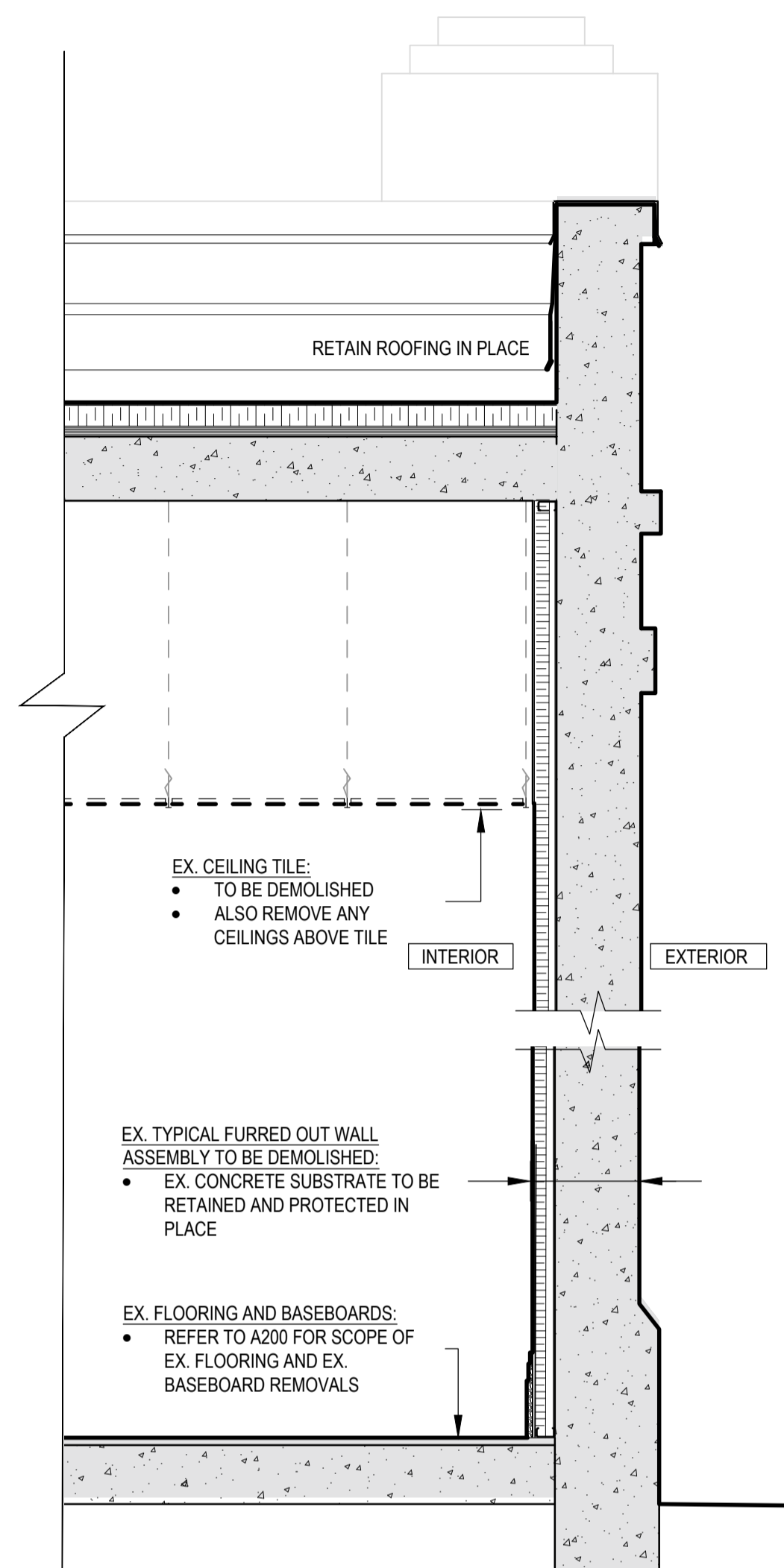
project date
date du projet 2021.07.26

project no.
no. du projet R.079827.001

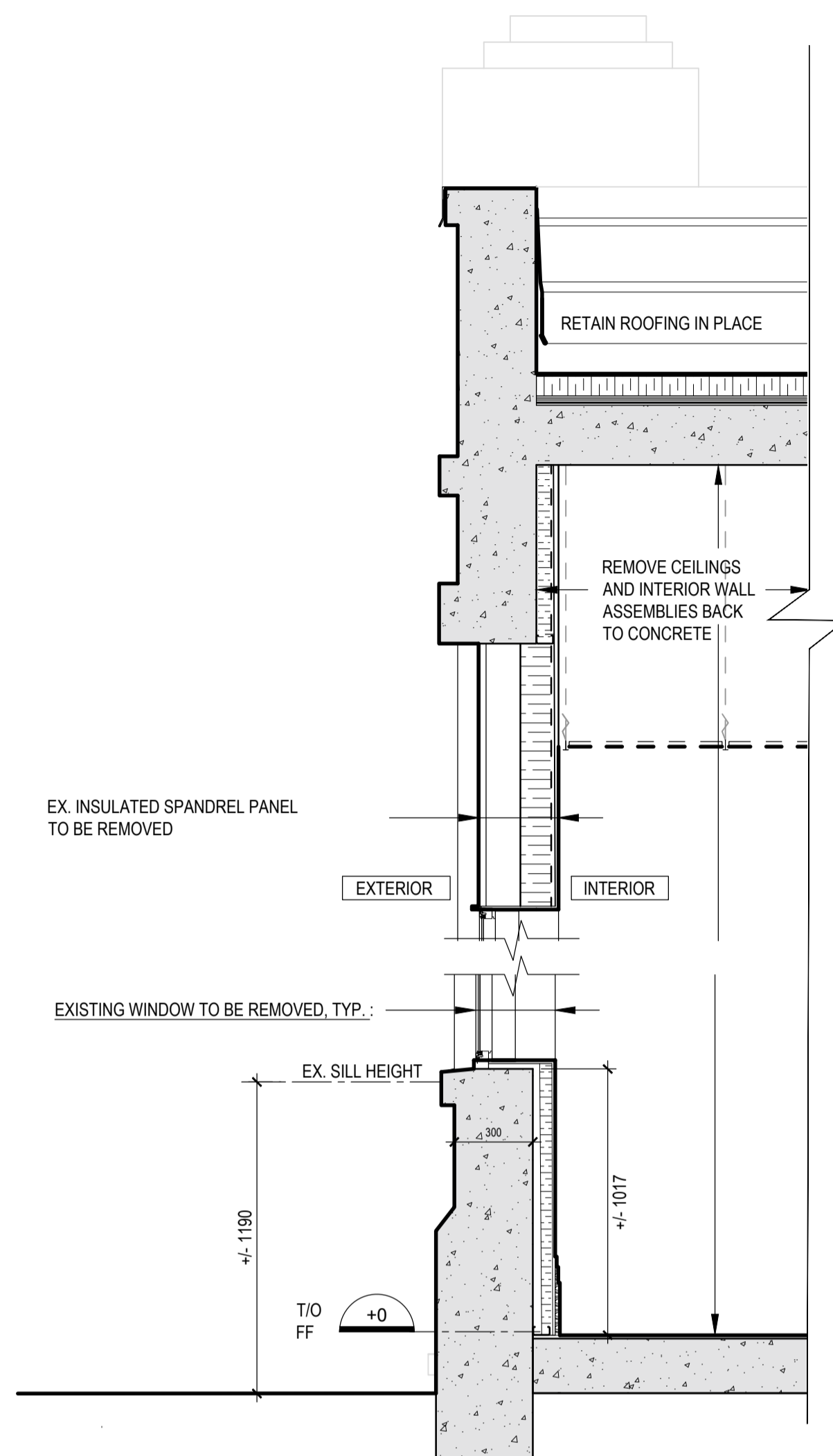
drawing no.
dessiné no. A202



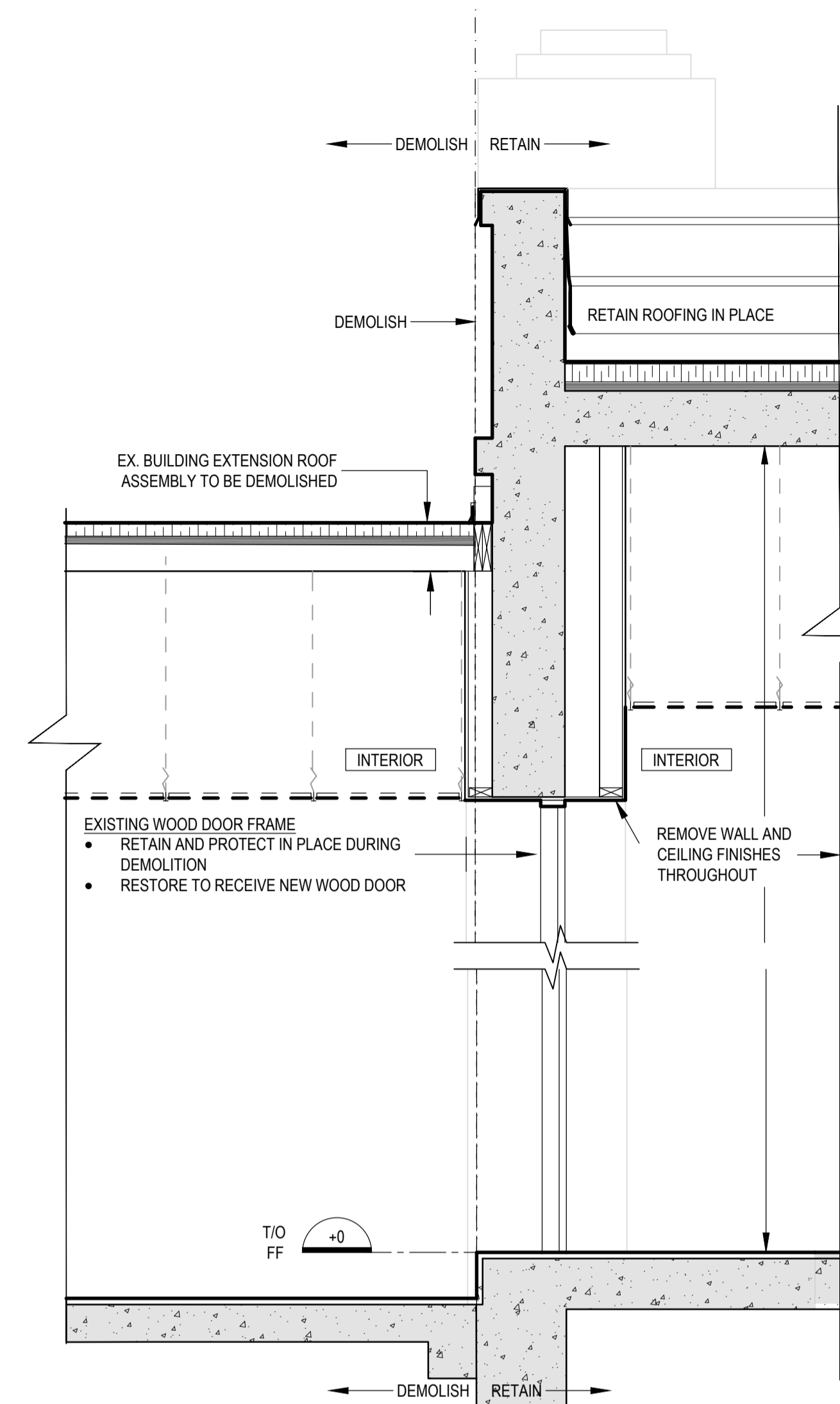
3 EXISTING ROOF - DEMOLITION PLAN
A202 1:50



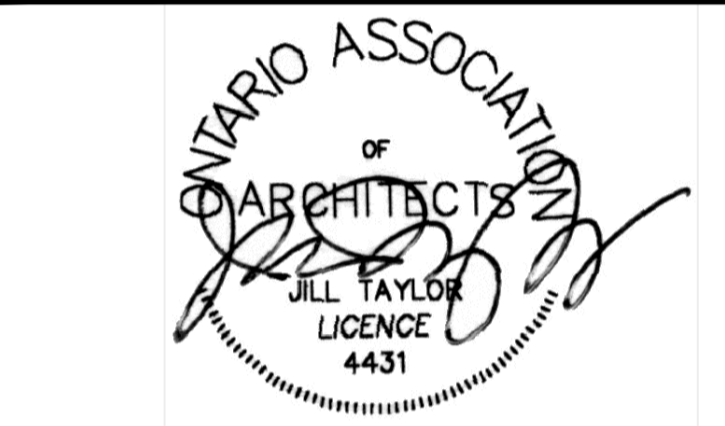
1 EX. WALL SECTION TYP. - DEMOLITION
A203 1:20 - EX. HISTORIC BUILDING



2 EX. WALL SECTION @ WINDOW - DEMOLITION
A203 1:20 - EX. HISTORIC BUILDING



3 EX. WALL SECTION @ EX. DOOR ED114 - DEMOLITION
A203 1:20 - EX. HISTORIC BUILDING



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PORT WELLER
DEPARTMENT OF FISHERIES AND OCEANS
SEARCH AND RESCUE STATION

**DEMOLITION, RENOVATION,
AND NEW CONSTRUCTION**

drawing title
titre du dessin
**DEMOLITION SECTION DETAILS
AT EX. HISTORIC BUILDING -
EXISTING WALLS, CEILING**

drawn by
dessiné par **AK/KS**

designed by
conçu par **CHu**

approved by
approuvé par **JT**

bid
offre **KG** project manager
administrateur de projets

project date
date du projet **2021.07.26**

project no.
no. du projet **R.079827.001**

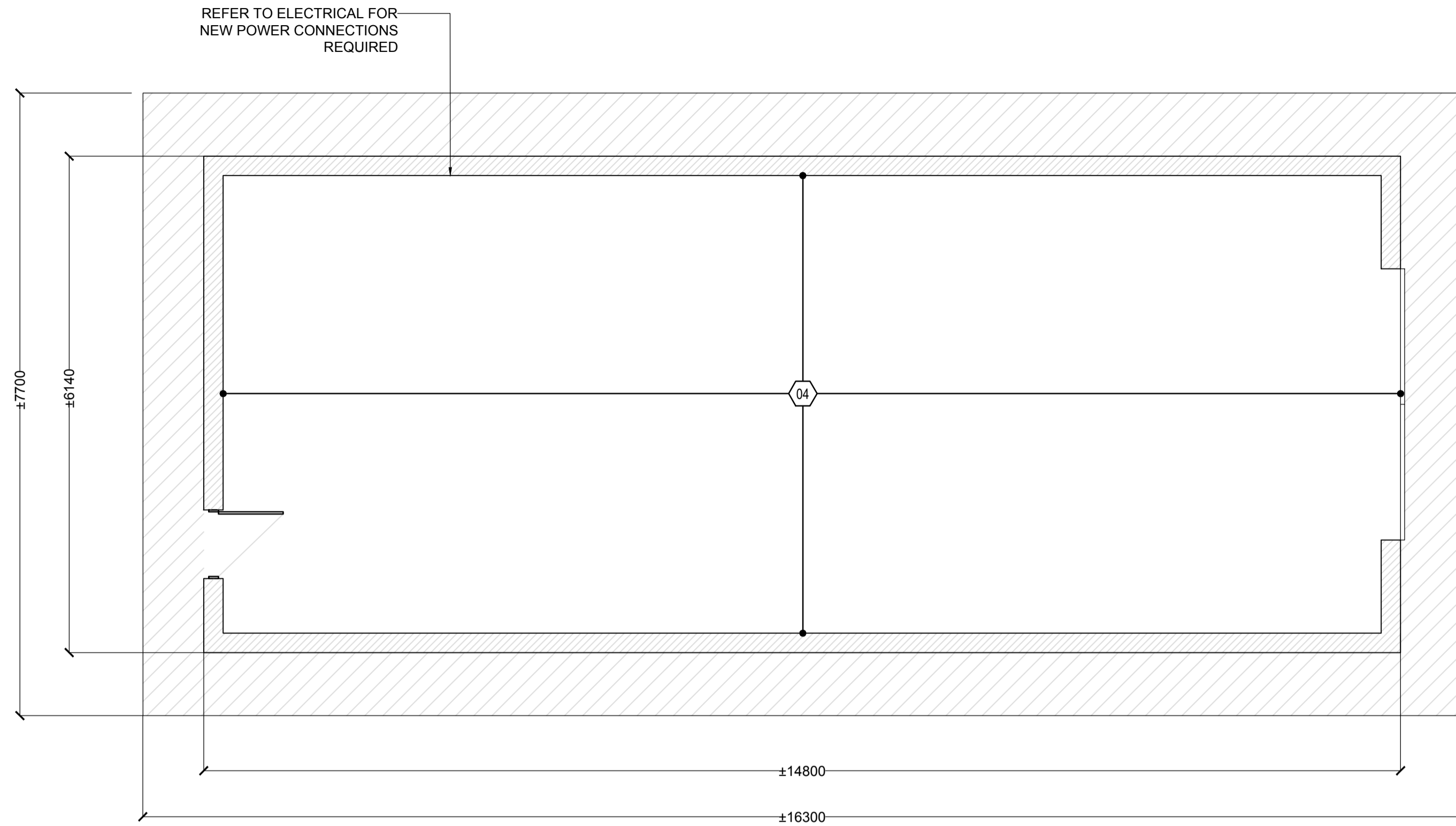
drawing no.
dessiné no. **A203**

EX. SITE BUILDINGS/STRUCTURES DEMOLITION NOTES

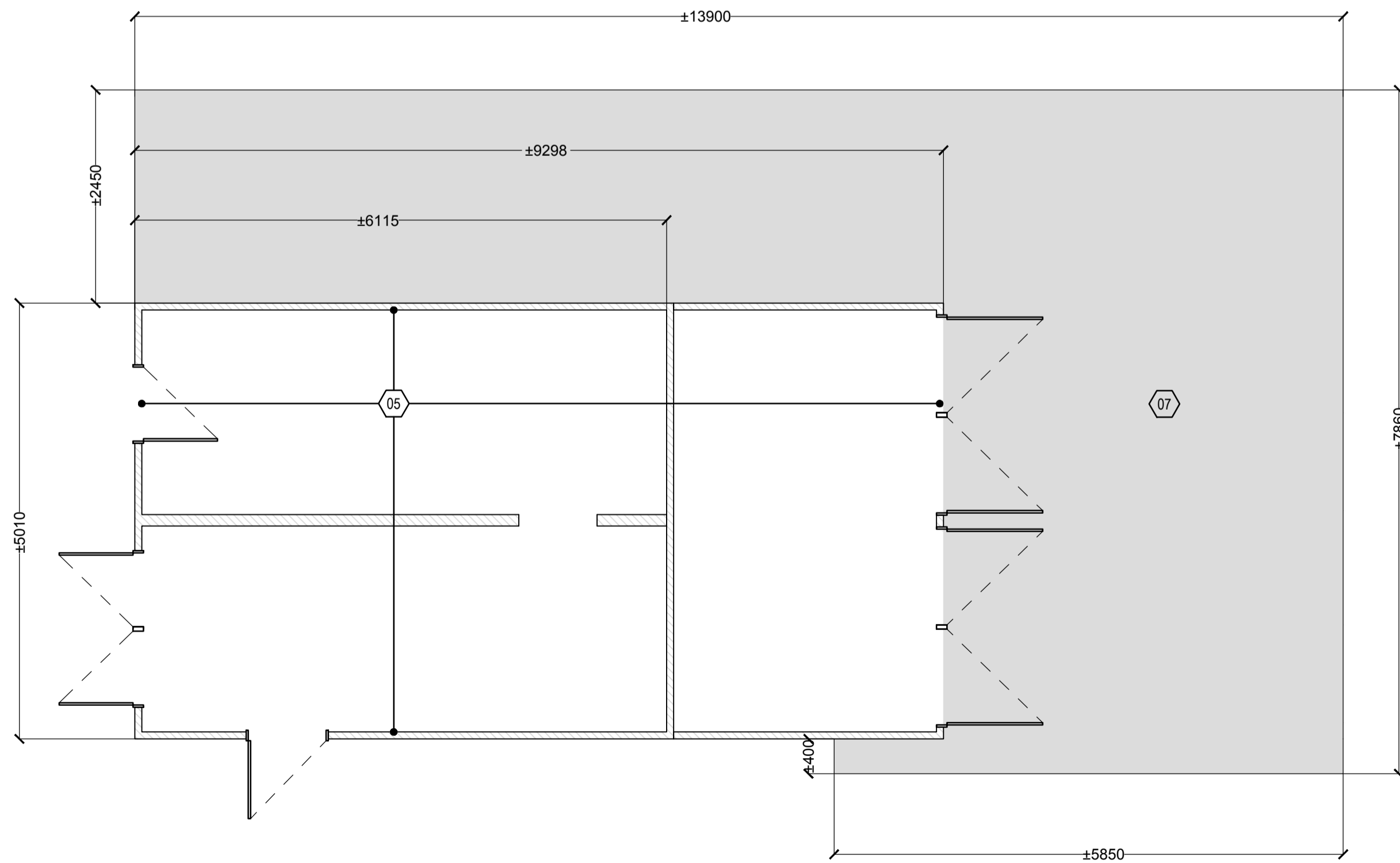
- 01 REFER TO ELECTRICAL FOR COORDINATING REMOVALS.
 - 02 REFER TO SITE PLAN FOR EXTENT OF EX. CONCRETE SLAB ON GRADE REMOVALS.
 - 03 EX. WOOD FRAME STRUCTURE WITH METAL CLADDING AND FLAT ROOF SITTING ON EX. SLAB ON GRADE TO BE COMPLETELY DEMOLISHED.
 - 04 EX. WOOD FRAME STRUCTURE WITH METAL CLADDING AND METAL HOOPED ROOF WITH PLASTIC SHEETHING TO REMAIN.
 - 05 EX. COMBINATION WOOD FRAME STRUCTURE WOOD CLADDING AND PREFABRICATED TRAILER TO BE COMPLETELY DEMOLISHED.
 - 06 EX. PREFABRICATED METAL TRAILER TO BE REMOVED FROM SITE.
 - 07 EX. CONCRETE SLAB ON GRADE TO BE DEMOLISHED.
- EX. CONCRETE SLAB TO BE DEMOLISHED.
 EX. CONCRETE SLAB TO BE REMAIN.

GENERAL NOTES

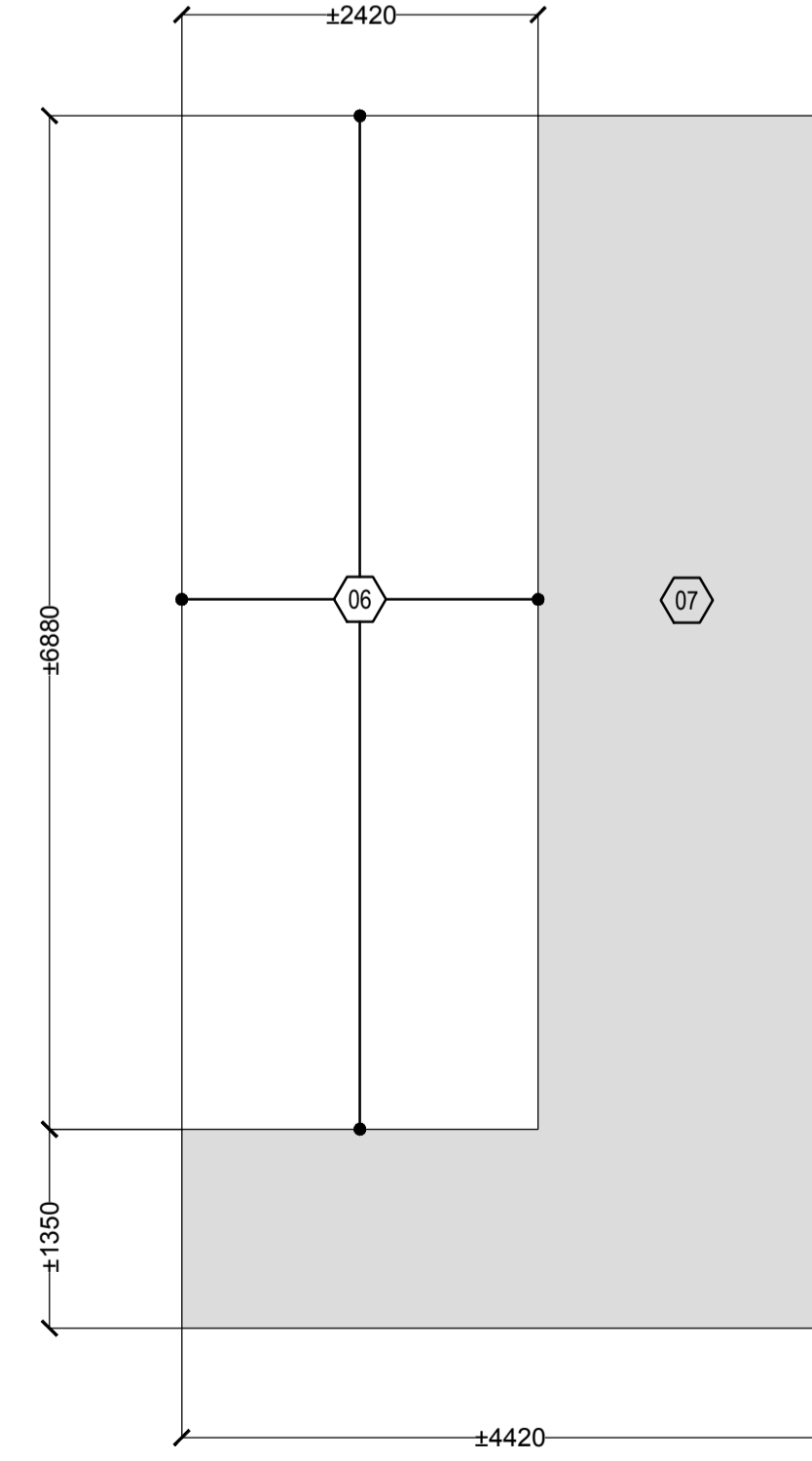
1. REFER TO PHOTOGRAPHS ON SHEETS A030, A031, A032 FOR EXISTING SITE, BUILDINGS AND STRUCTURES.
2. ALL EXISTING EQUIPMENT TO BE REMOVED AND TEMPORARILY STORED BY DEPARTMENTAL REPRESENTATIVE PRIOR TO THE START OF WORK.



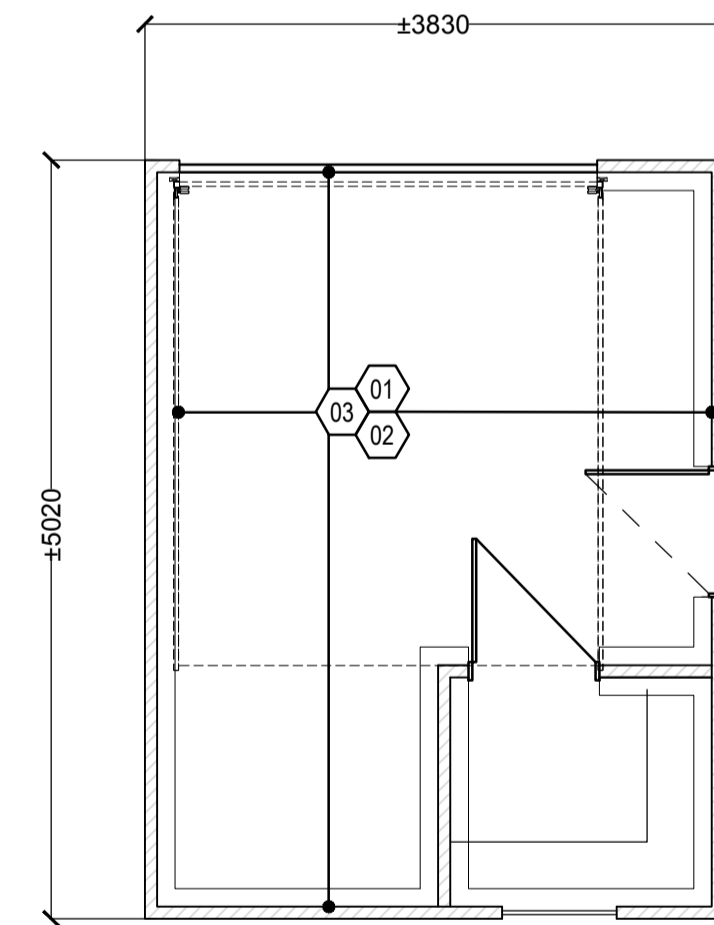
1 EXISTING HOOP HOUSE AND SLAB TO REMAIN (FOR INFORMATION ONLY)
A204 1:50



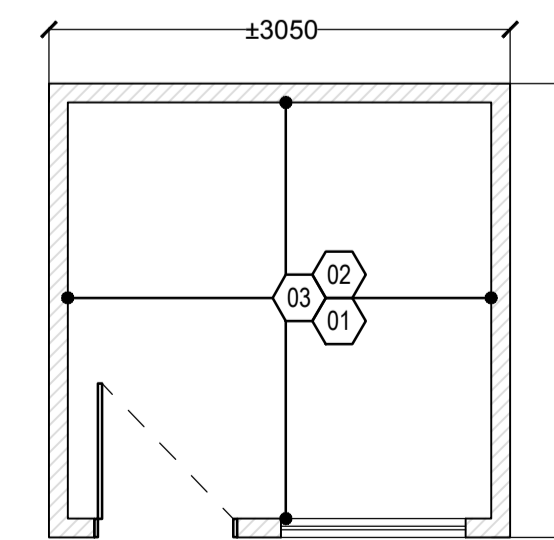
2 EXISTING STORAGE BUILDING TO BE DEMOLISHED
A204 1:50



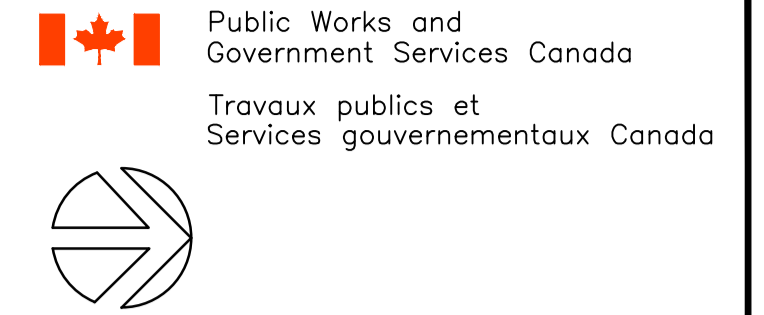
3 EXISTING STORAGE CONTAINER TO BE REMOVED FROM SITE
A204 1:50



4 EXISTING PAINT/ROPE LOCKER TO BE DEMOLISHED
A204 1:50



5 EXISTING ENGINEER'S OFFICE TO BE DEMOLISHED
A204 1:50

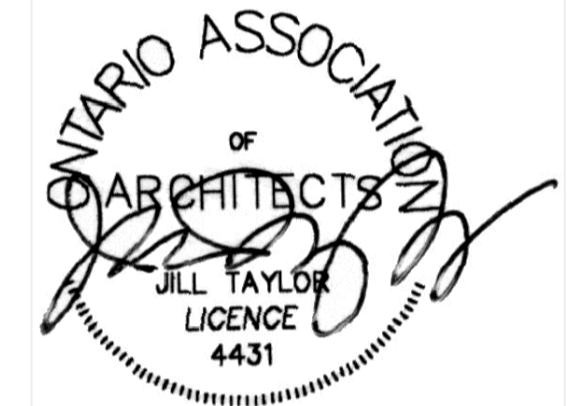


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DEPARTMENT OF FISHERIES AND OCEANS
SEARCH AND RESCUE STATION

DEMOLITION, RENOVATION, AND NEW CONSTRUCTION

drawing title
titre du dessin
DEMOLITION OF EX. SITE STRUCTURES/BUILDINGS

drawn by
dessiné par AK/KS

designed by
conç par CHu

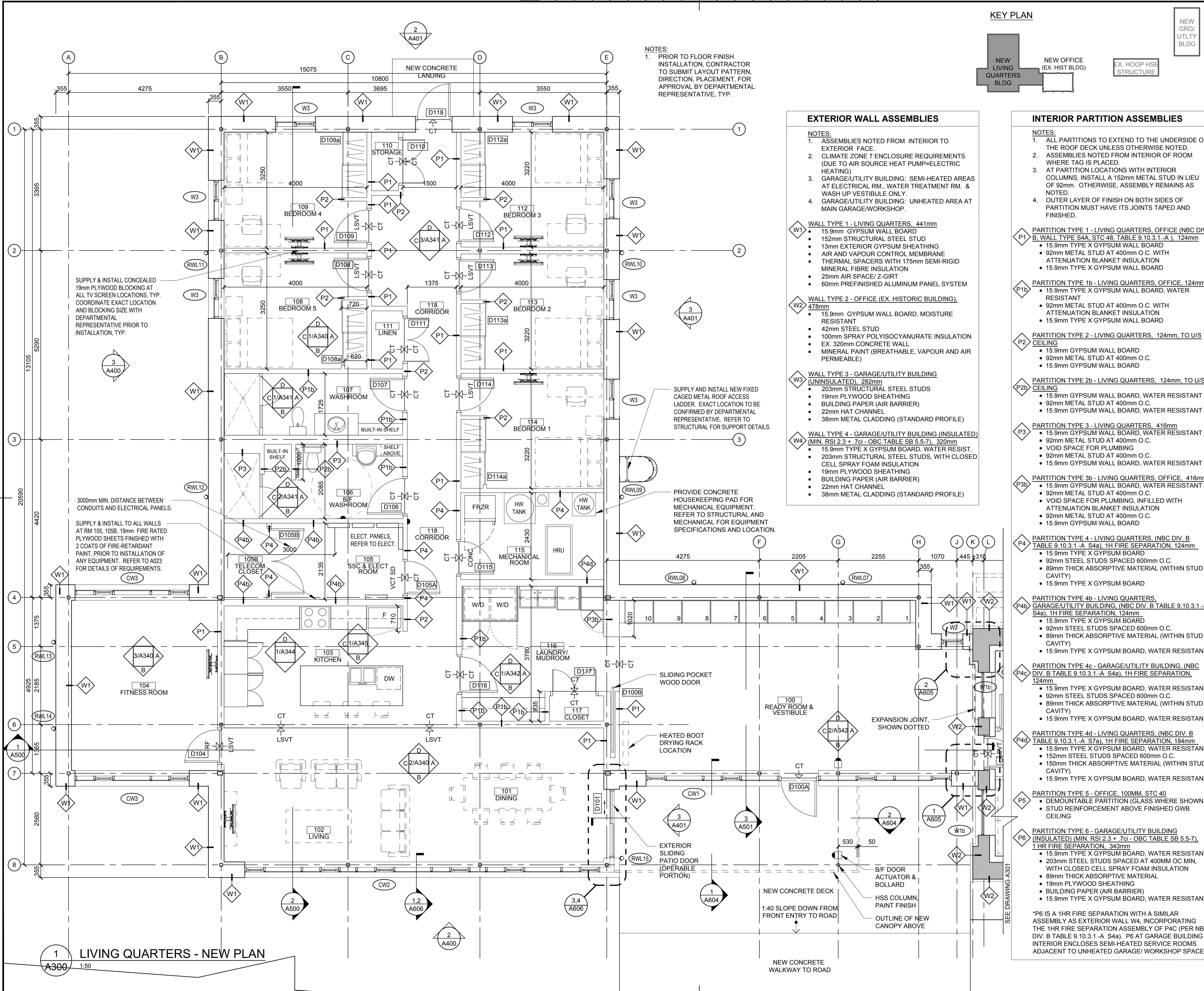
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drawing no.
dessiné no. A204



Public Works and Government Services Canada
 Travaux publics et Services gouvernementaux Canada

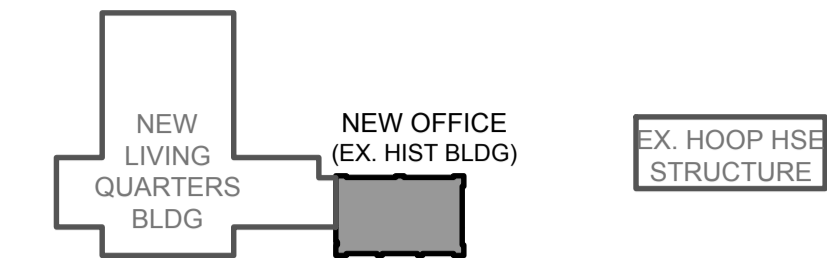
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KEY PLAN



NEW GRG/ UTILITY BLDG

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PORT WELLER
DEPARTMENT OF FISHERIES AND OCEANS
SEARCH AND RESCUE STATION
ST CATHARINES

**DEMOLITION, RENOVATION,
AND NEW CONSTRUCTION**

drawing title
titre du dessin
**NEW FLOOR PLAN
NEW OFFICE
(HISTORIC BUILDING)**

drawn by
dessiné par AK/KS

designed by
conçu par CHu/KS

approved by
approuvé par JT

bid
offre KG project manager
administrateur de projets

project date
date du projet 2021.07.26

project no.
no. du projet R.079827.001

drawing no.
dessiné no. A301

EXTERIOR WALL ASSEMBLIES

- NOTES:
- ASSEMBLIES NOTED FROM INTERIOR TO EXTERIOR FACE.
 - CLIMATE ZONE 7 ENCLOSURE REQUIREMENTS (DUE TO AIR SOURCE HEAT PUMP-ELECTRIC HEATING)
 - GARAGE/UTILITY BUILDING: SEMI-HEATED AREAS AT ELECTRICAL RM., WATER TREATMENT RM. & WASH UP VESTIBULE ONLY.
 - GARAGE/UTILITY BUILDING: UNHEATED AREA AT MAIN GARAGE/WORKSHOP.

- W1 WALL TYPE 1 - LIVING QUARTERS, 441mm
- 15.9mm GYPSUM WALL BOARD
 - 152mm STRUCTURAL STEEL STUD
 - 13mm EXTERIOR GYPSUM SHEATHING
 - AIR AND VAPOUR CONTROL MEMBRANE
 - THERMAL SPACERS WITH 175mm SEMI-RIGID MINERAL FIBRE INSULATION
 - 25mm AIR SPACE/ Z-GIRT
 - 60mm PREFINISHED ALUMINUM PANEL SYSTEM

- W2 WALL TYPE 2 - OFFICE (EX. HISTORIC BUILDING), 478mm
- 15.9mm GYPSUM WALL BOARD, MOISTURE RESISTANT
 - 42mm STEEL STUD
 - 100mm SPRAY POLYISOCYANURATE INSULATION
 - EX. 320mm CONCRETE WALL
 - MINERAL PAINT (BREATHABLE, VAPOUR AND AIR PERMEABLE)

- W3 WALL TYPE 3 - GARAGE/UTILITY BUILDING (UNINSULATED), 282mm
- 203mm STRUCTURAL STEEL STUDS
 - 19mm PLYWOOD SHEATHING
 - BUILDING PAPER (AIR BARRIER)
 - 22mm HAT CHANNEL
 - 38mm METAL CLADDING (STANDARD PROFILE)

- W4 WALL TYPE 4 - GARAGE/UTILITY BUILDING (INSULATED) (MIN. RSI 2.3 + 7ci - OBC TABLE SB 5.5-7), 320mm
- 15.9mm TYPE X GYPSUM BOARD, WATER RESIST.
 - 203mm STRUCTURAL STEEL STUDS, WITH CLOSED CELL SPRAY FOAM INSULATION
 - 19mm PLYWOOD SHEATHING
 - BUILDING PAPER (AIR BARRIER)
 - 22mm HAT CHANNEL
 - 38mm METAL CLADDING (STANDARD PROFILE)

- NOTES:
- INSPECT CONDITION OF EXISTING CONCRETE SLAB AFTER DEMOLITION AND REPORT TO DEPARTMENTAL REPRESENTATIVE ANY VARIATION IN FINISHED SLAB THAT IS GREATER THAN 6MM.
 - PERFORM X-RAY SCAN OF EXISTING SLAB PRIOR TO CUTTING OF SLAB FOR THE INSTALLATION OF NEW SERVICES.
 - BACK FILL, PROVIDE 200MM OF GRANULAR A, DOWEL REINFORCEMENT AND CONCRETE REPAIR. REFER TO SPECIFICATIONS FOR DETAILED REQUIREMENTS.

INTERIOR PARTITION ASSEMBLIES

- NOTES:
- ALL PARTITIONS TO EXTEND TO THE UNDERSIDE OF THE ROOF DECK UNLESS OTHERWISE NOTED.
 - ASSEMBLIES NOTED FROM INTERIOR OF ROOM WHERE TAG IS PLACED.
 - AT PARTITION LOCATIONS WITH INTERIOR COLUMNS, INSTALL A 152mm METAL STUD IN LIEU OF 92mm. OTHERWISE, ASSEMBLY REMAINS AS NOTED.
 - OUTER LAYER OF FINISH ON BOTH SIDES OF PARTITION MUST HAVE ITS JOINTS TAPED AND FINISHED.

- P1 PARTITION TYPE 1 - LIVING QUARTERS, OFFICE (NBC DIV. B, WALL TYPE S4a, STC 48, TABLE 9.10.3.1.-A), 124mm
- 15.9mm TYPE X GYPSUM WALL BOARD
 - 92mm METAL STUD AT 400mm O.C. WITH ATTENUATION BLANKET INSULATION
 - 15.9mm TYPE X GYPSUM WALL BOARD

- P1b PARTITION TYPE 1b - LIVING QUARTERS, OFFICE, 124mm
- 15.9mm TYPE X GYPSUM WALL BOARD, WATER RESISTANT
 - 92mm METAL STUD AT 400mm O.C. WITH ATTENUATION BLANKET INSULATION
 - 15.9mm TYPE X GYPSUM WALL BOARD

- P2 PARTITION TYPE 2 - LIVING QUARTERS, 124mm, TO U/S CEILING
- 15.9mm GYPSUM WALL BOARD
 - 92mm METAL STUD AT 400mm O.C.
 - 15.9mm GYPSUM WALL BOARD

- P2b PARTITION TYPE 2b - LIVING QUARTERS, 124mm, TO U/S CEILING
- 15.9mm GYPSUM WALL BOARD, WATER RESISTANT
 - 92mm METAL STUD AT 400mm O.C.
 - 15.9mm GYPSUM WALL BOARD, WATER RESISTANT

- P3 PARTITION TYPE 3 - LIVING QUARTERS, 416mm
- 15.9mm GYPSUM WALL BOARD, WATER RESISTANT
 - 92mm METAL STUD AT 400mm O.C.
 - VOID SPACE FOR PLUMBING
 - 92mm METAL STUD AT 400mm O.C.
 - 15.9mm GYPSUM WALL BOARD, WATER RESISTANT

- P3b PARTITION TYPE 3b - LIVING QUARTERS, OFFICE, 416mm
- 15.9mm GYPSUM WALL BOARD, WATER RESISTANT
 - 92mm METAL STUD AT 400mm O.C.
 - VOID SPACE FOR PLUMBING, INFILLED WITH ATTENUATION BLANKET INSULATION
 - 92mm METAL STUD AT 400mm O.C.
 - 15.9mm GYPSUM WALL BOARD

- P4 PARTITION TYPE 4 - LIVING QUARTERS, (NBC DIV. B, TABLE 9.10.3.1.-A, S4a), 1H FIRE SEPARATION, 124mm
- 15.9mm TYPE X GYPSUM BOARD
 - 92mm STEEL STUDS SPACED 600mm O.C.
 - 89mm THICK ABSORPTIVE MATERIAL (WITHIN STUD CAVITY)
 - 15.9mm TYPE X GYPSUM BOARD

- P4b PARTITION TYPE 4b - LIVING QUARTERS, GARAGE/UTILITY BUILDING, (NBC DIV. B, TABLE 9.10.3.1.-A, S4a), 1H FIRE SEPARATION, 124mm
- 15.9mm TYPE X GYPSUM BOARD
 - 92mm STEEL STUDS SPACED 600mm O.C.
 - 89mm THICK ABSORPTIVE MATERIAL (WITHIN STUD CAVITY)
 - 15.9mm TYPE X GYPSUM BOARD, WATER RESISTANT

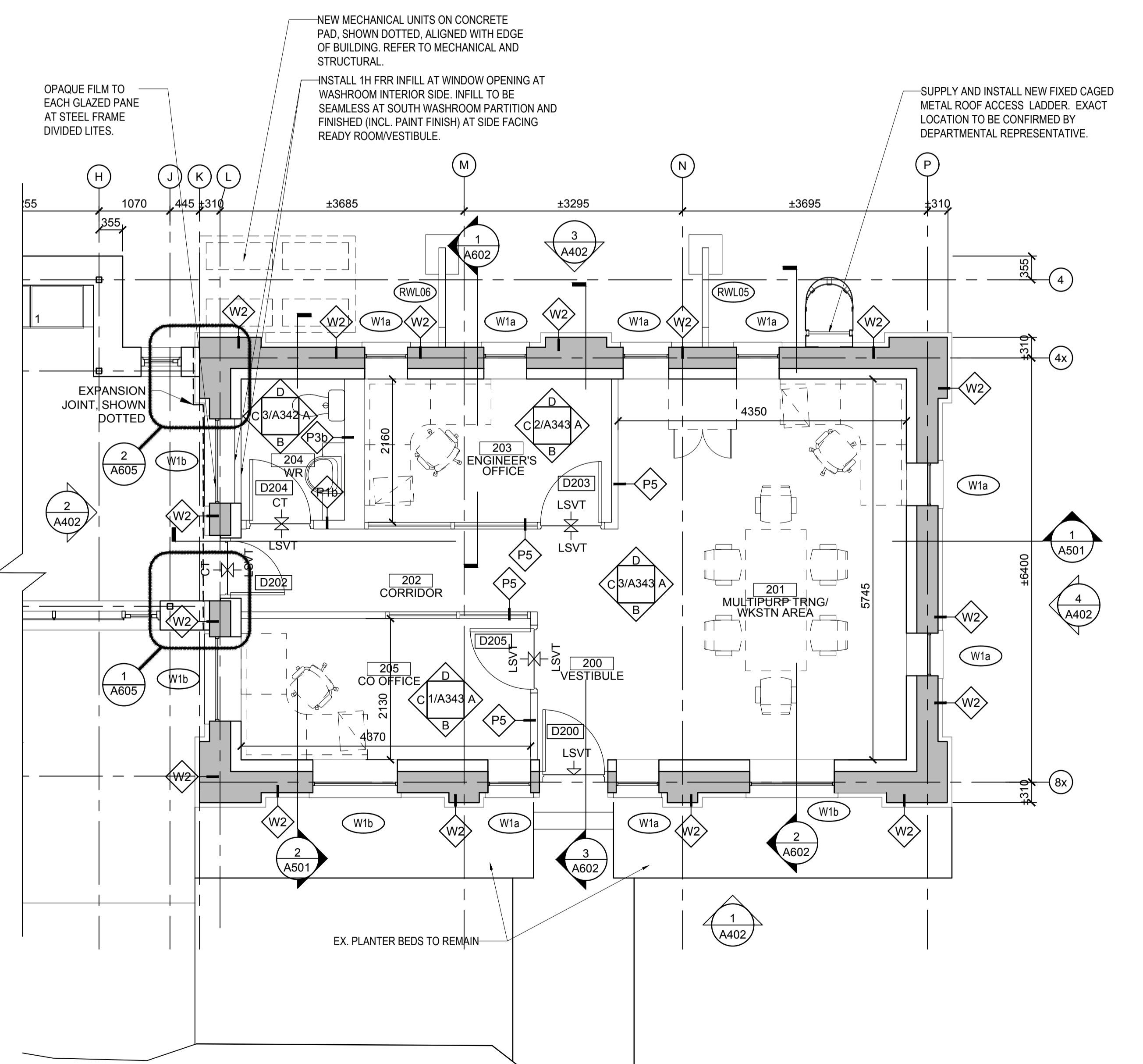
- P4c PARTITION TYPE 4c - GARAGE/UTILITY BUILDING, (NBC DIV. B, TABLE 9.10.3.1.-A, S4a), 1H FIRE SEPARATION, 124mm
- 15.9mm TYPE X GYPSUM BOARD, WATER RESISTANT
 - 92mm STEEL STUDS SPACED 600mm O.C.
 - 89mm THICK ABSORPTIVE MATERIAL (WITHIN STUD CAVITY)
 - 15.9mm TYPE X GYPSUM BOARD, WATER RESISTANT

- P4d PARTITION TYPE 4d - LIVING QUARTERS, (NBC DIV. B, TABLE 9.10.3.1.-A, S7a), 1H FIRE SEPARATION, 184mm
- 15.9mm TYPE X GYPSUM BOARD, WATER RESISTANT
 - 152mm STEEL STUDS SPACED 600mm O.C.
 - 150mm THICK ABSORPTIVE MATERIAL (WITHIN STUD CAVITY)
 - 15.9mm TYPE X GYPSUM BOARD, WATER RESISTANT

- P5 PARTITION TYPE 5 - OFFICE, 100MM, STC 40
- DEMOUNTABLE PARTITION (GLASS WHERE SHOWN)
 - STUD REINFORCEMENT ABOVE FINISHED GWB CEILING

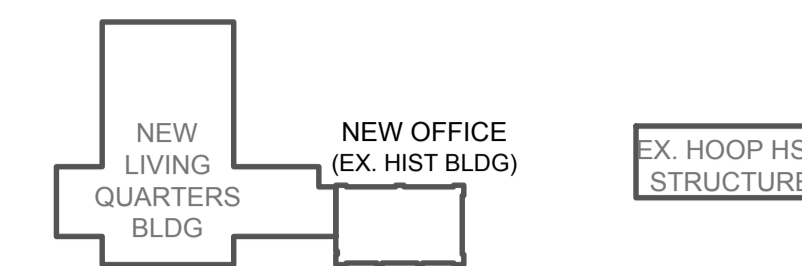
- P6 PARTITION TYPE 6 - GARAGE/UTILITY BUILDING (INSULATED) (MIN. RSI 2.3 + 7ci - OBC TABLE SB 5.5-7), 1HR FIRE SEPARATION, 343mm
- 15.9mm TYPE X GYPSUM BOARD, WATER RESISTANT
 - 203mm STEEL STUDS SPACED AT 400MM OC MIN.
 - WITH CLOSED CELL SPRAY FOAM INSULATION
 - 89mm THICK ABSORPTIVE MATERIAL
 - 19mm PLYWOOD SHEATHING
 - BUILDING PAPER (AIR BARRIER)
 - 15.9mm TYPE X GYPSUM BOARD, WATER RESISTANT

*P6 IS A 1HR FIRE SEPARATION WITH A SIMILAR ASSEMBLY AS EXTERIOR WALL W4, INCORPORATING THE 1HR FIRE SEPARATION ASSEMBLY OF P4C (PER NBC DIV. B, TABLE 9.10.3.1.-A, S4a). P6 AT GARAGE BUILDING INTERIOR ENCLOSES SEMI-HEATED SERVICE ROOMS ADJACENT TO UNHEATED GARAGE/WORKSHOP SPACE.



1 NEW FLOOR PLAN - NEW OFFICE (HISTORIC BUILDING)
A301 1:50

KEY PLAN



NEW GRG/ UTILITY BLDG

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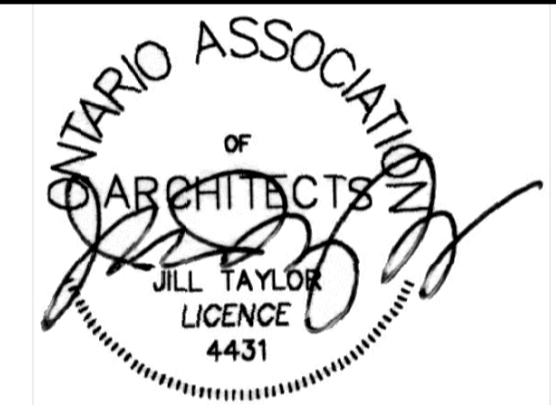
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DEPARTMENT OF FISHERIES AND OCEANS
SEARCH AND RESCUE STATION
ST CATHARINES

**DEMOLITION, RENOVATION,
AND NEW CONSTRUCTION**

drawing title
titre du dessin
**NEW FLOOR PLAN
NEW GARAGE/UTILITY BUILDING**

drawn by
dessiné par AK/KS/BL

designed by
conc par CHu/KS

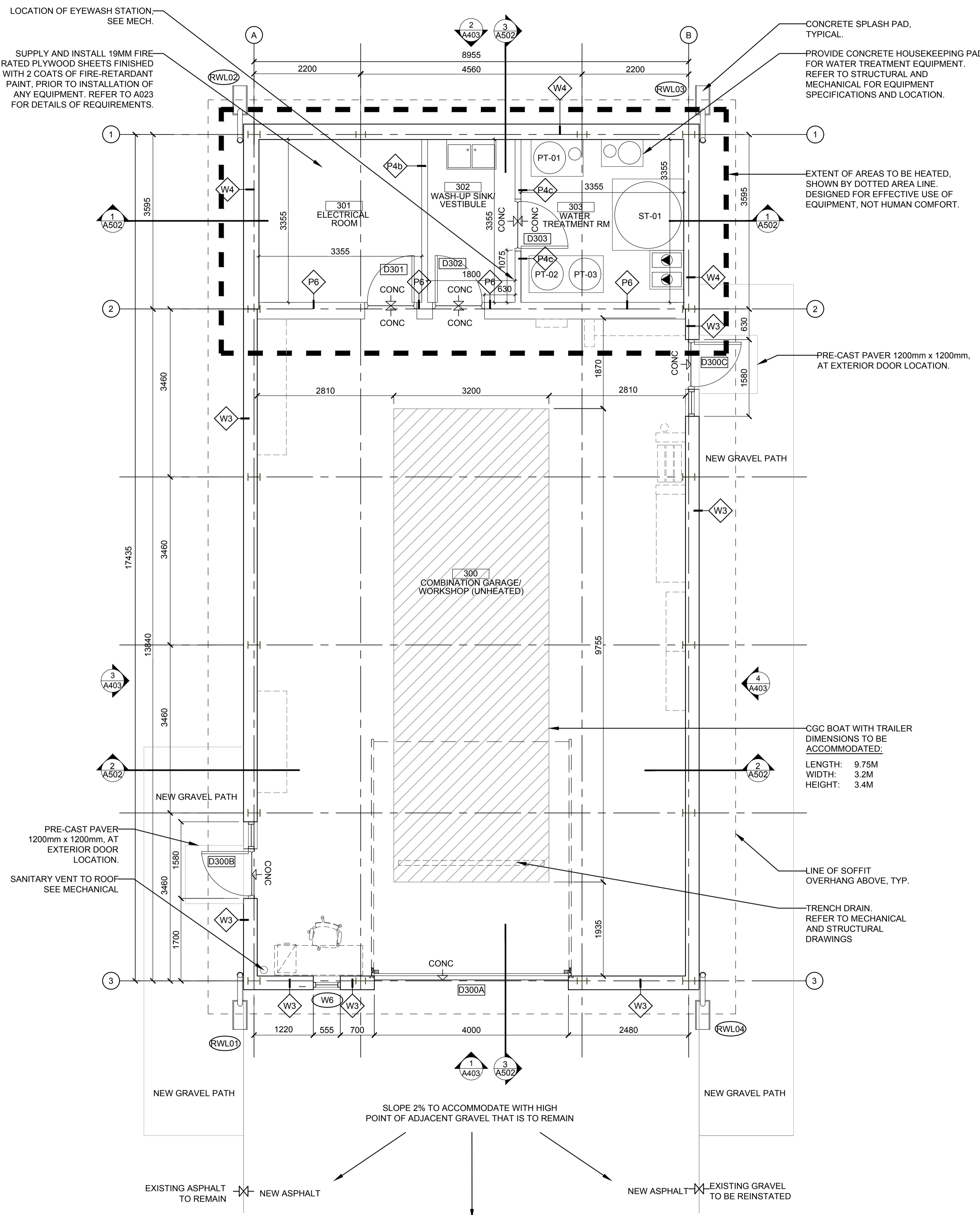
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bid
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administrateur de projets

project date
date du projet 2021.07.26

project no.
no. du projet R.079827.001

drawing no.
dessiné no. A302



EXTERIOR WALL ASSEMBLIES

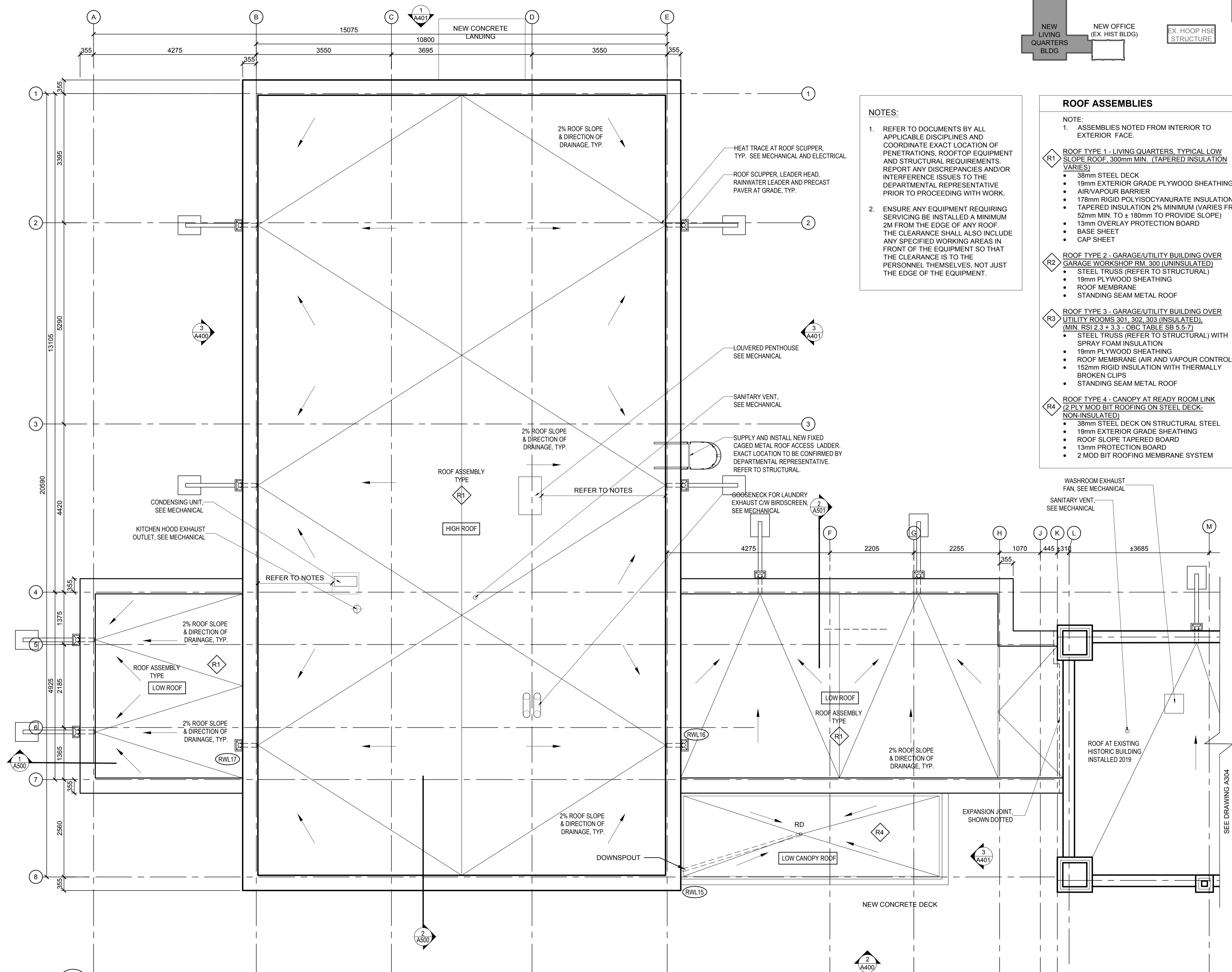
- NOTES:
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 - 25mm AIR SPACE/Z-GIRT
 - 60mm PREFINISHED ALUMINUM PANEL SYSTEM
 - W2 WALL TYPE 2 - OFFICE (EX. HISTORIC BUILDING), 478mm
 - 15.9mm GYPSUM WALL BOARD, MOISTURE RESISTANT
 - 42mm STEEL STUD
 - 100mm SPRAY POLYISOCYANURATE INSULATION
 - EX. 320mm CONCRETE WALL
 - MINERAL PAINT (BREATHABLE, VAPOUR AND AIR PERMEABLE)
 - W3 WALL TYPE 3 - GARAGE/UTILITY BUILDING (UNINSULATED), 282mm
 - 203mm STRUCTURAL STEEL STUDS
 - 19mm PLYWOOD SHEATHING
 - BUILDING PAPER (AIR BARRIER)
 - 22mm HAT CHANNEL
 - 38mm METAL CLADDING (STANDARD PROFILE)
 - W4 WALL TYPE 4 - GARAGE/UTILITY BUILDING (INSULATED) (MIN. RSI 2.3 + 7ci - OBC TABLE SB 5.5-7), 320mm
 - 15.9mm TYPE X GYPSUM BOARD, WATER RESIST.
 - 203mm STRUCTURAL STEEL STUDS, WITH CLOSED CELL SPRAY FOAM INSULATION
 - 19mm PLYWOOD SHEATHING
 - BUILDING PAPER (AIR BARRIER)
 - 22mm HAT CHANNEL
 - 38mm METAL CLADDING (STANDARD PROFILE)

- NOTES:
- BUILDING SUPPLIER/CONTRACTOR IS RESPONSIBLE FOR DESIGN (ENGINEER STAMPED) AND INSTALLATION OF GARAGE/UTILITY BUILDING ABOVE FOUNDATION AND SLAB. REFER TO ARCHITECTURAL AND STRUCTURAL DOCUMENTS BY DEPARTMENTAL REPRESENTATIVE FOR PERFORMANCE BASED REQUIREMENTS AND CRITERIA.
 - BUILDING SUPPLIER/CONTRACTOR IS RESPONSIBLE FOR FULL COORDINATION AND INSTALLATION OF ALL SERVICES AND REQUIREMENTS NOTED IN CONTRACT DOCUMENTS.

INTERIOR PARTITION ASSEMBLIES

- NOTES:
- ALL PARTITIONS TO EXTEND TO THE UNDERSIDE OF THE ROOF DECK UNLESS OTHERWISE NOTED.
 - ASSEMBLIES NOTED FROM INTERIOR OF ROOM WHERE TAG IS PLACED.
 - AT PARTITION LOCATIONS WITH INTERIOR COLUMNS, INSTALL A 152mm METAL STUD IN LIEU OF 92mm. OTHERWISE, ASSEMBLY REMAINS AS NOTED.
 - OUTER LAYER OF FINISH ON BOTH SIDES OF PARTITION MUST HAVE ITS JOINTS TAPED AND FINISHED.
- P1 PARTITION TYPE 1 - LIVING QUARTERS, OFFICE (NBC DIV. B), WALL TYPE S4a, STC 48, TABLE 9.10.3.1.-A), 124mm
 - 15.9mm TYPE X GYPSUM WALL BOARD
 - 92mm METAL STUD AT 400mm O.C. WITH ATTENUATION BLANKET INSULATION
 - 15.9mm TYPE X GYPSUM WALL BOARD
 - P1b PARTITION TYPE 1b - LIVING QUARTERS, OFFICE, 124mm
 - 15.9mm TYPE X GYPSUM WALL BOARD, WATER RESISTANT
 - 92mm METAL STUD AT 400mm O.C. WITH ATTENUATION BLANKET INSULATION
 - 15.9mm TYPE X GYPSUM WALL BOARD
 - P2 PARTITION TYPE 2 - LIVING QUARTERS, 124mm, TO U/S CEILING
 - 15.9mm GYPSUM WALL BOARD
 - 92mm METAL STUD AT 400mm O.C.
 - 15.9mm GYPSUM WALL BOARD
 - P2b PARTITION TYPE 2b - LIVING QUARTERS, 124mm, TO U/S CEILING
 - 15.9mm GYPSUM WALL BOARD, WATER RESISTANT
 - 92mm METAL STUD AT 400mm O.C.
 - 15.9mm GYPSUM WALL BOARD, WATER RESISTANT
 - P3 PARTITION TYPE 3 - LIVING QUARTERS, 416mm
 - 15.9mm GYPSUM WALL BOARD, WATER RESISTANT
 - 92mm METAL STUD AT 400mm O.C.
 - VOID SPACE FOR PLUMBING
 - 92mm METAL STUD AT 400mm O.C.
 - 15.9mm GYPSUM WALL BOARD, WATER RESISTANT
 - P3b PARTITION TYPE 3b - LIVING QUARTERS, OFFICE, 416mm
 - 15.9mm GYPSUM WALL BOARD, WATER RESISTANT
 - 92mm METAL STUD AT 400mm O.C.
 - VOID SPACE FOR PLUMBING, INFILLED WITH ATTENUATION BLANKET INSULATION
 - 92mm METAL STUD AT 400mm O.C.
 - 15.9mm GYPSUM WALL BOARD
 - P4 PARTITION TYPE 4 - LIVING QUARTERS, (NBC DIV. B TABLE 9.10.3.1.-A S4a), 1H FIRE SEPARATION, 124mm
 - 15.9mm TYPE X GYPSUM BOARD
 - 92mm STEEL STUDS SPACED 600mm O.C.
 - 89mm THICK ABSORPTIVE MATERIAL (WITHIN STUD CAVITY)
 - 15.9mm TYPE X GYPSUM BOARD
 - P4b PARTITION TYPE 4b - LIVING QUARTERS, GARAGE/UTILITY BUILDING, (NBC DIV. B TABLE 9.10.3.1.-A S4a), 1H FIRE SEPARATION, 124mm
 - 15.9mm TYPE X GYPSUM BOARD
 - 92mm STEEL STUDS SPACED 600mm O.C.
 - 89mm THICK ABSORPTIVE MATERIAL (WITHIN STUD CAVITY)
 - 15.9mm TYPE X GYPSUM BOARD, WATER RESISTANT
 - P4c PARTITION TYPE 4c - GARAGE/UTILITY BUILDING, (NBC DIV. B TABLE 9.10.3.1.-A S4a), 1H FIRE SEPARATION, 124mm
 - 15.9mm TYPE X GYPSUM BOARD, WATER RESISTANT
 - 92mm STEEL STUDS SPACED 600mm O.C.
 - 89mm THICK ABSORPTIVE MATERIAL (WITHIN STUD CAVITY)
 - 15.9mm TYPE X GYPSUM BOARD, WATER RESISTANT
 - P4d PARTITION TYPE 4d - LIVING QUARTERS, (NBC DIV. B TABLE 9.10.3.1.-A S7a), 1H FIRE SEPARATION, 184mm
 - 15.9mm TYPE X GYPSUM BOARD, WATER RESISTANT
 - 152mm STEEL STUDS SPACED AT 400MM O.C. MIN. WITH CLOSED CELL SPRAY FOAM INSULATION
 - 150mm THICK ABSORPTIVE MATERIAL (WITHIN STUD CAVITY)
 - 15.9mm TYPE X GYPSUM BOARD, WATER RESISTANT
 - P5 PARTITION TYPE 5 - OFFICE, 100MM, STC 40
 - DEMOUNTABLE PARTITION (GLASS WHERE SHOWN)
 - STUD REINFORCEMENT ABOVE FINISHED GWB CEILING
 - P6 PARTITION TYPE 6 - GARAGE/UTILITY BUILDING (INSULATED) (MIN. RSI 2.3 + 7ci - OBC TABLE SB 5.5-7), 1 HR FIRE SEPARATION, 343mm
 - 15.9mm TYPE X GYPSUM BOARD, WATER RESISTANT
 - 203mm STEEL STUDS SPACED AT 400MM O.C. MIN. WITH CLOSED CELL SPRAY FOAM INSULATION
 - 89mm THICK ABSORPTIVE MATERIAL
 - 19mm PLYWOOD SHEATHING
 - BUILDING PAPER (AIR BARRIER)
 - 15.9mm TYPE X GYPSUM BOARD, WATER RESISTANT
- *P6 IS A 1HR FIRE SEPARATION WITH A SIMILAR ASSEMBLY AS EXTERIOR WALL W4, INCORPORATING THE 1HR FIRE SEPARATION ASSEMBLY OF P4C (PER NBC DIV. B TABLE 9.10.3.1.-A S4a). P6 AT GARAGE BUILDING INTERIOR ENCLOSURE SEMI-HEATED SERVICE ROOMS ADJACENT TO UNHEATED GARAGE/WORKSHOP SPACE.

1 NEW FLOOR PLAN - NEW GARAGE/UTILITY BUILDING
1:50



KEY PLAN



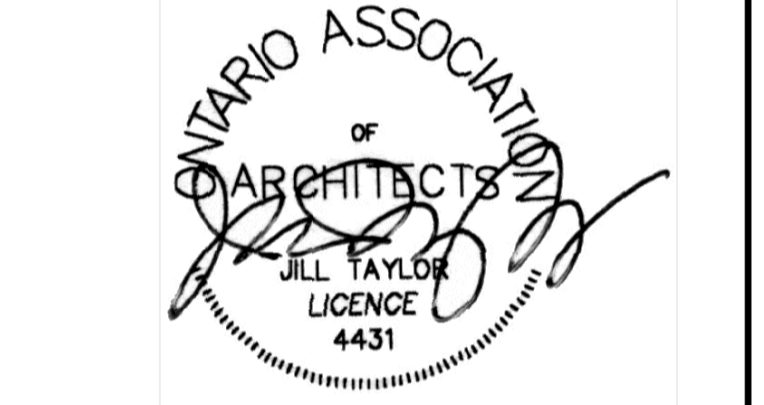
NEW GRG/ UTILITY BLDG

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project title
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PORT WELLER
DEPARTMENT OF FISHERIES AND OCEANS
SEARCH AND RESCUE STATION
ST CATHARINES
**DEMOLITION, RENOVATION,
AND NEW CONSTRUCTION**

drawing title
titre du dessin
**NEW ROOF PLAN
NEW LIVING QUARTERS**

drawn by
dessiné par AK/KS

designed by
conçu par CHu/KS

approved by
approuvé par JT

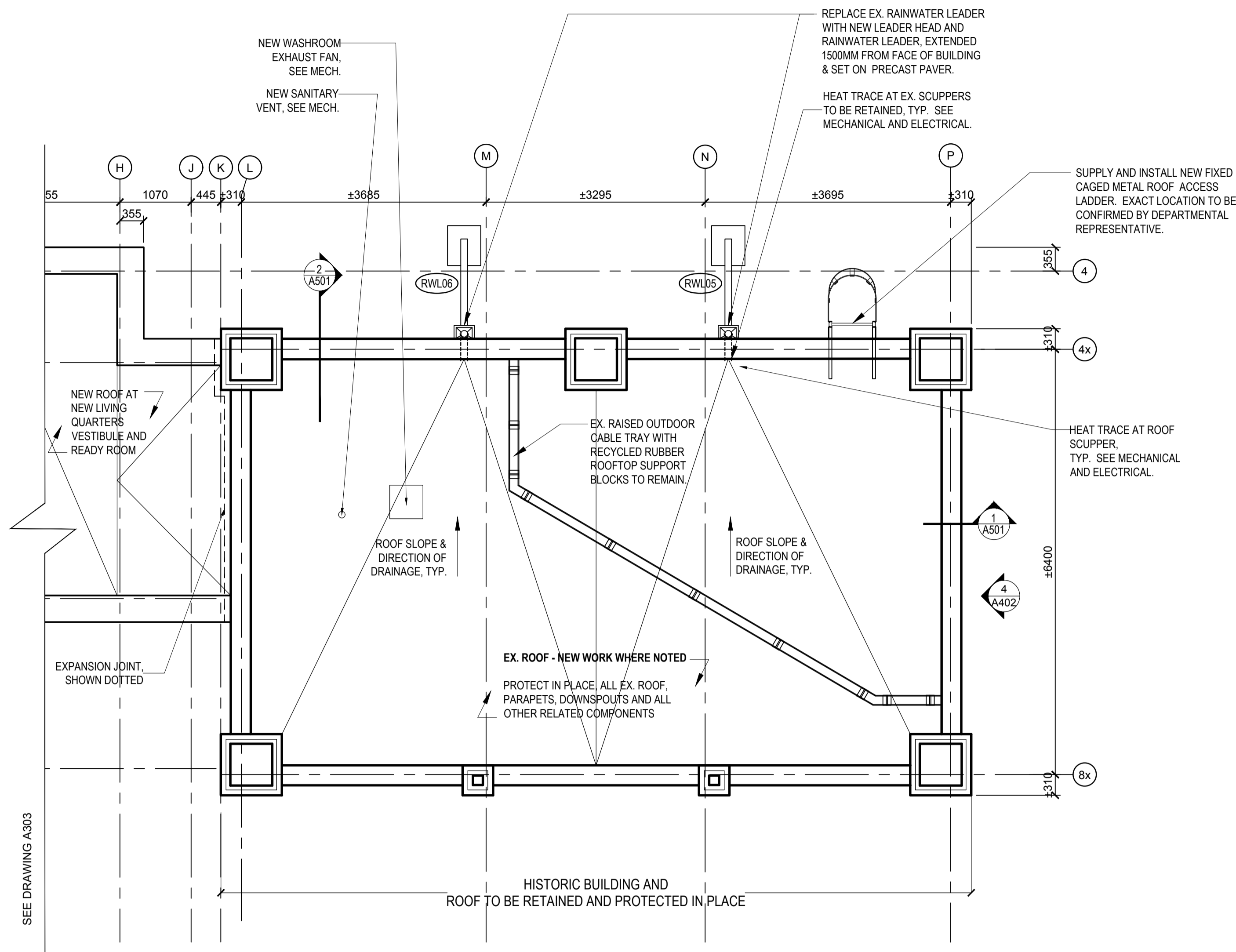
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project date
date du projet 2021.07.26

project no.
no. du projet R.079827.001

drawing no.
dessiné no. A303

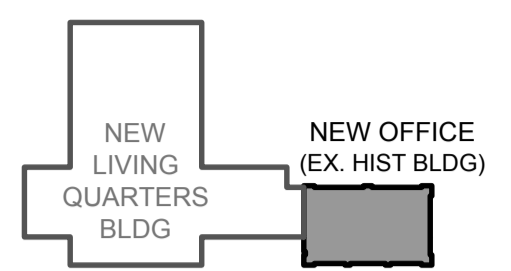
1 LIVING QUARTERS - NEW ROOF PLAN
A303 1:50



- NOTES:**
- REFER TO DOCUMENTS BY ALL APPLICABLE DISCIPLINES AND COORDINATE EXACT LOCATION ON SITE FOR PENETRATIONS AND ROOFTOP EQUIPMENT. REPORT ANY DISCREPANCIES AND/OR INTERFERENCE ISSUES TO THE DEPARTMENTAL REPRESENTATIVE PRIOR TO PROCEEDING WITH WORK.
 - SCAN EXISTING CONCRETE ROOF SLAB FOR INTERFERENCES PRIOR TO CREATION OF NEW OPENINGS. DO NOT CUT SLAB REINFORCEMENT. NOTIFY DEPARTMENTAL REPRESENTATIVE FOR REVIEW AND APPROVAL BEFORE PROCEEDING.

1
A304 1:50
NEW OFFICE (HISTORIC BUILDING) - EX. ROOF PLAN & NEW WORK

KEY PLAN



NEW GRG/UTLTY BLDG

EX. HOOP HSE STRUCTURE

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Travaux publics et Services gouvernementaux Canada

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ST CATHARINES
**DEMOLITION, RENOVATION,
AND NEW CONSTRUCTION**

drawing title
titre du dessin
**EX. ROOF PLAN & NEW WORK
NEW OFFICE
(HISTORIC BUILDING)**

drawn by
dessiné par AK/KS

designed by
conçu par CHu/KS

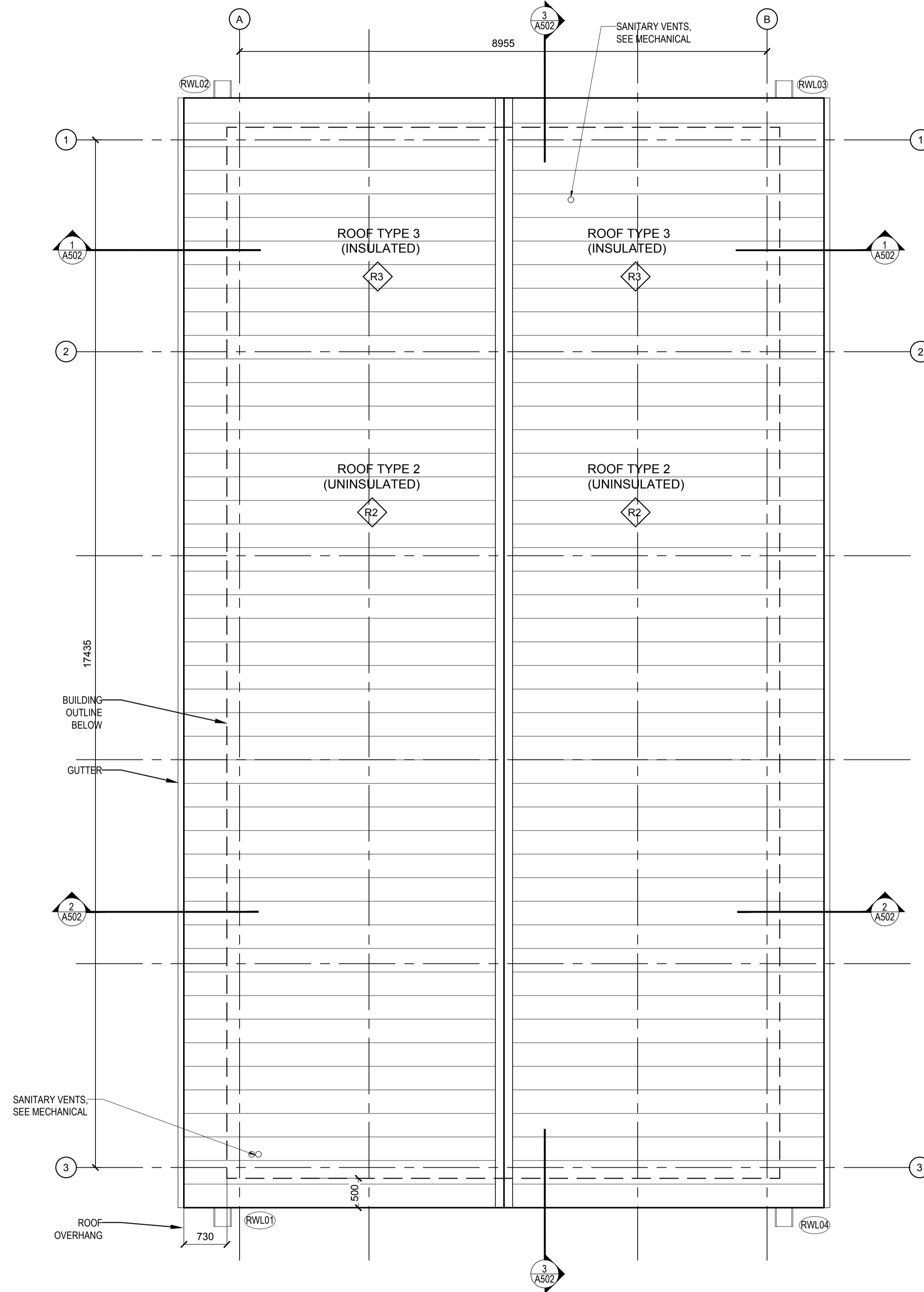
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date du projet 2021.07.26

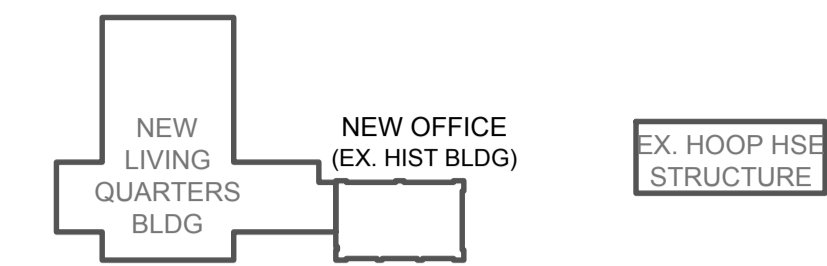
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dessiné no. A304



1 NEW ROOF PLAN - NEW GARAGE/UTILITY BUILDING
A305 1:50

KEY PLAN



NEW GRG/UTLTY BLDG

NOTES

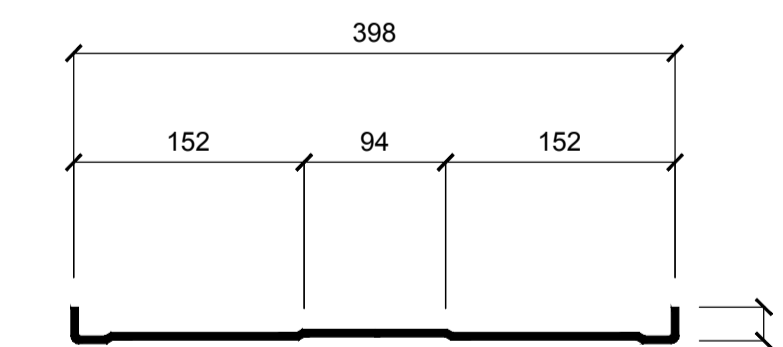
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- BUILDING SUPPLIER/CONTRACTOR IS RESPONSIBLE FOR FULL COORDINATION AND INSTALLATION OF ALL SERVICES AND REQUIREMENTS NOTED IN CONTRACT DOCUMENTS.

ROOF ASSEMBLIES

NOTE:

- ASSEMBLIES NOTED FROM INTERIOR TO EXTERIOR FACE.

- R1** ROOF TYPE 1 - LIVING QUARTERS, TYPICAL LOW SLOPE ROOF, 300mm MIN. (TAPERED INSULATION VARIES)
 - 38mm STEEL DECK
 - 19mm EXTERIOR GRADE PLYWOOD SHEATHING
 - AIR/VAPOUR BARRIER
 - 178mm RIGID POLYISOCYANURATE INSULATION
 - TAPERED INSULATION 2% MINIMUM (VARIES FROM 52mm MIN. TO ± 180mm TO PROVIDE SLOPE)
 - 13mm OVERLAY PROTECTION BOARD
 - BASE SHEET
 - CAP SHEET
- R2** ROOF TYPE 2 - GARAGE/UTILITY BUILDING OVER GARAGE WORKSHOP RM. 300 (UNINSULATED)
 - STEEL TRUSS (REFER TO STRUCTURAL)
 - 19mm PLYWOOD SHEATHING
 - ROOF MEMBRANE
 - STANDING SEAM METAL ROOF
- R3** ROOF TYPE 3 - GARAGE/UTILITY BUILDING OVER UTILITY ROOMS 301, 302, 303 (INSULATED), (MIN. RSI 2.3 + 3.3 - OBC TABLE SB 5.5-7)
 - STEEL TRUSS (REFER TO STRUCTURAL) WITH SPRAY FOAM INSULATION
 - 19mm PLYWOOD SHEATHING
 - ROOF MEMBRANE (AIR AND VAPOUR CONTROL)
 - 152mm RIGID INSULATION WITH THERMALLY BROKEN CLIPS
 - STANDING SEAM METAL ROOF
- R4** ROOF TYPE 4 - CANOPY AT READY ROOM LINK (2 PLY MOD BIT ROOFING ON STEEL DECK - NON-INSULATED)
 - 38mm STEEL DECK ON STRUCTURAL STEEL
 - 19mm EXTERIOR GRADE SHEATHING
 - ROOF SLOPE TAPERED BOARD
 - 13mm PROTECTION BOARD
 - 2 MOD BIT ROOFING MEMBRANE SYSTEM



2 TYPICAL METAL ROOF PROFILE
A305 NTS

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SEARCH AND RESCUE STATION
ST CATHARINES
**DEMOLITION, RENOVATION,
AND NEW CONSTRUCTION**

drawing title
titre du dessin
NEW ROOF PLAN
NEW GARAGE/UTILITY BUILDING

drawn by
dessiné par AK/KS

designed by
conçu par CHu/KS

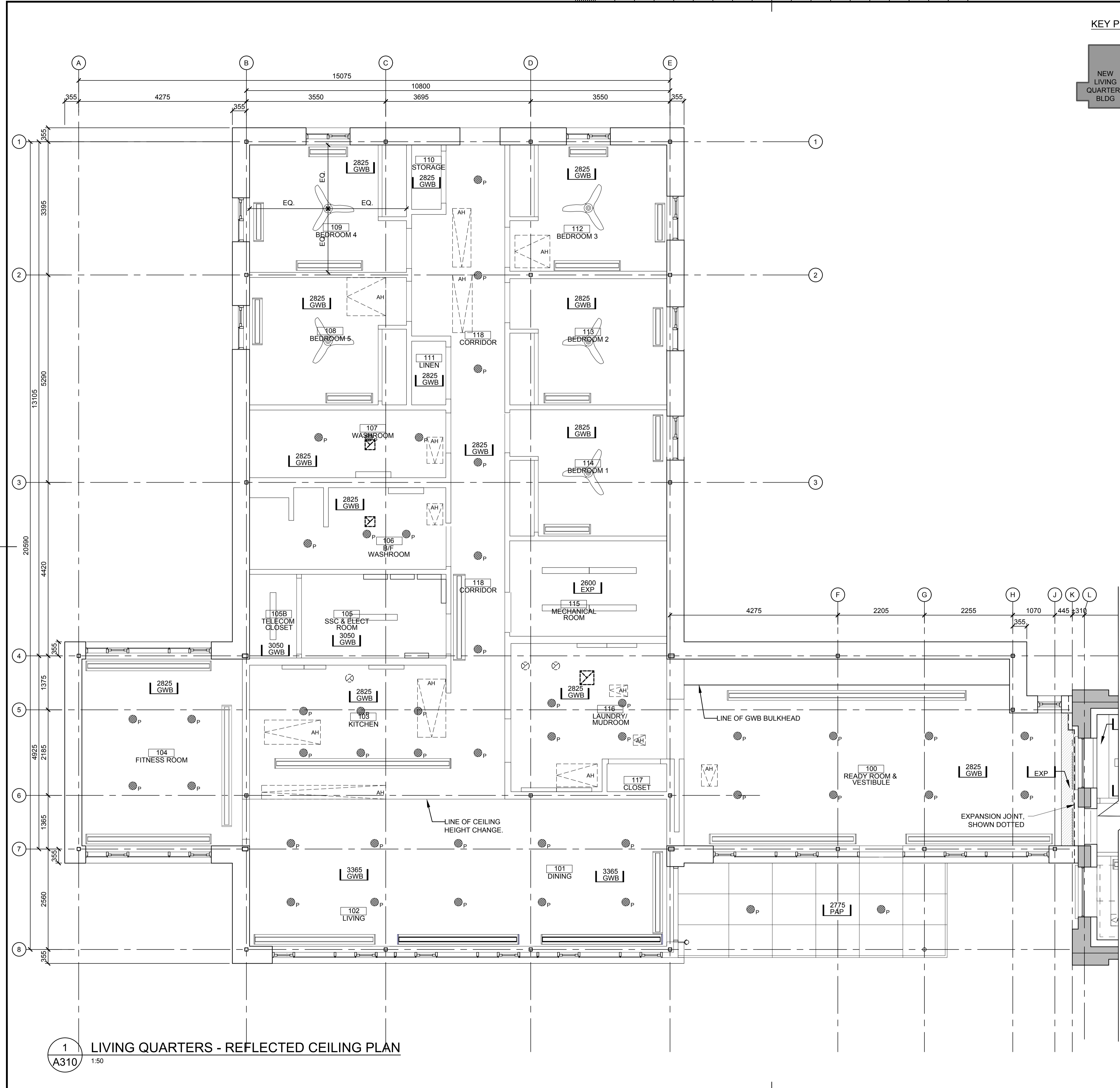
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project no.
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dessiné no. A305



KEY PLAN



LEGEND

- CEILING FAN/ LIGHT
- TYPICAL LED POT LIGHTS
- LED LUMINAIRE
- EXIT SIGN
- SUPPLY AIR
- RETURN AIR
- EXHAUST AIR
- LINEAR DIFFUSER
- FAN
- APPROXIMATE AREA WHERE CEILING ACCESS HATCH REQUIRED. SIZE AND FINAL LOCATION TO BE COORDINATED ON SITE WITH ARCHITECTURAL LAYOUT DESIGN AND ALL DISCIPLINE DRAWINGS.
- 2825 GWB CEILING HEIGHT AND FINISH
- GWB GYPSUM WALL BOARD
- PAP PREFINISHED ALUMINUM PANEL
- EXP EXPOSED

NOTES:

1. REFER TO ALL DISCIPLINES' RCP DRAWINGS IN CONJUNCTION WITH ARCHITECTURAL DRAWINGS. REPORT ANY CONFLICTS AND/OR INTERFERENCES TO THE DEPARTMENTAL REPRESENTATIVE PRIOR TO INSTALLATION.
2. PORTION OF CEILING IS EXPOSED AS SHOWN BETWEEN GRIDLINES K&J AT JUNCTION OF EXISTING AND NEW BUILDINGS. THE TOP OF EX. WINDOW AT GRIDLINE L EXTENDS ABOVE THE READY ROOM/ VESTIBULE CEILING HEIGHT.

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ST CATHARINES
**DEMOLITION, RENOVATION,
AND NEW CONSTRUCTION**

drawing title
titre du dessin
**NEW REFLECTED CEILING PLAN-
NEW LIVING QUARTERS**

drawn by
dessiné par AK/KS

designed by
conçu par CHu/KS

approved by
approuvé par JT

bid
offre KG project manager
administrateur de projets

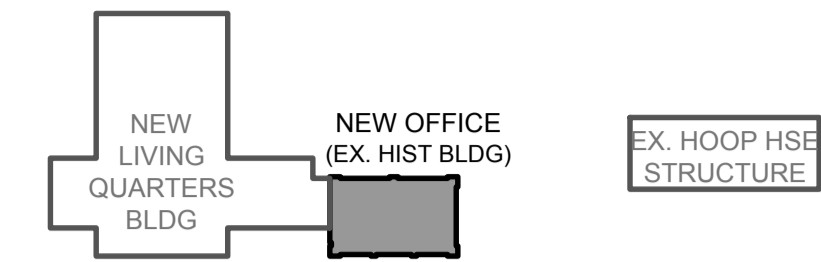
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dessiné no. A310

1 LIVING QUARTERS - REFLECTED CEILING PLAN
A310 1:50

KEY PLAN



NEW GRG/UTLTY BLDG

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ST CATHARINES

**DEMOLITION, RENOVATION,
AND NEW CONSTRUCTION**

drawing title
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**NEW REFLECTED CEILING PLAN -
NEW OFFICE (HISTORIC
BUILDING)**

drawn by
dessiné par AK/KS

designed by
conç par CHu/KS

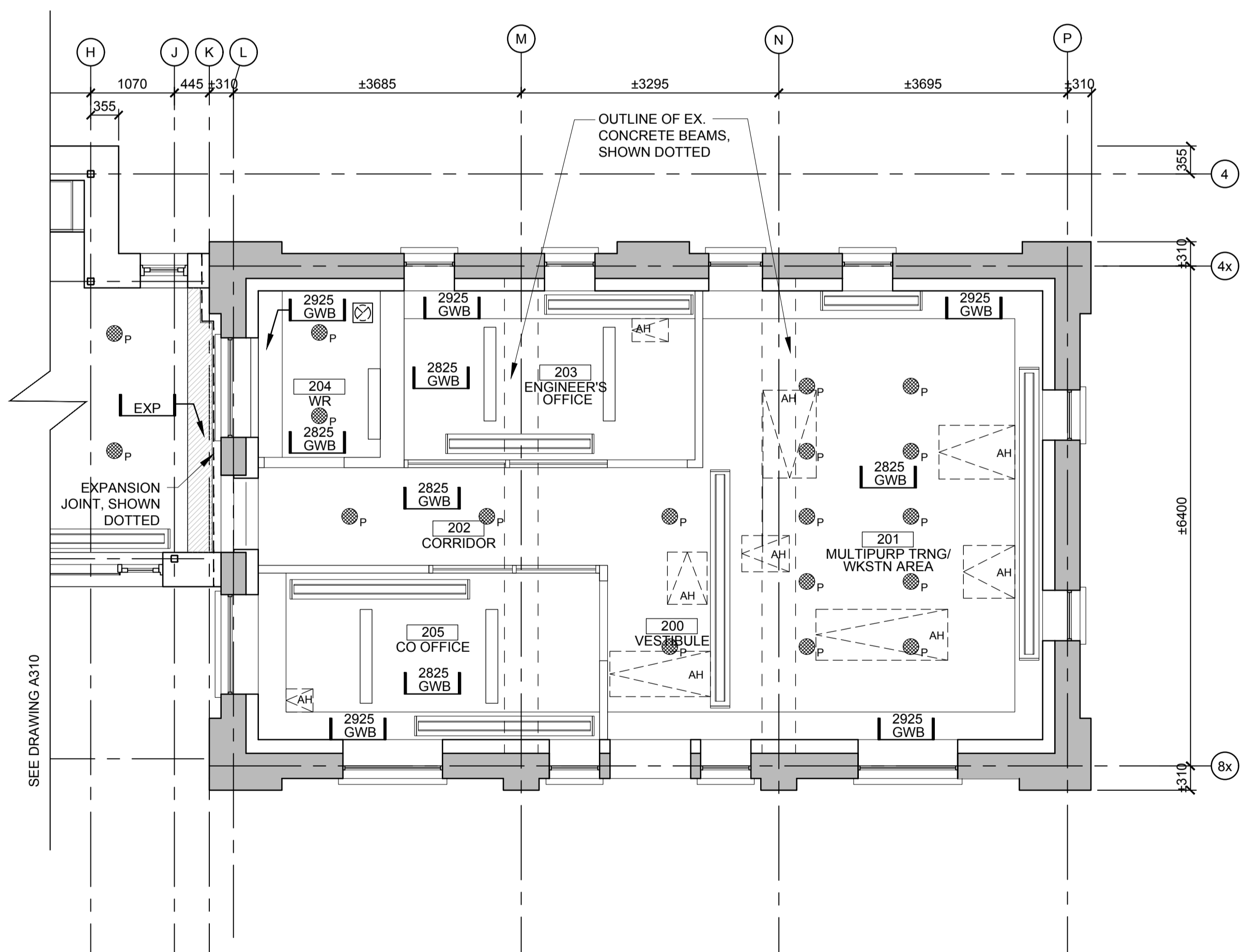
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dessiné no. A311

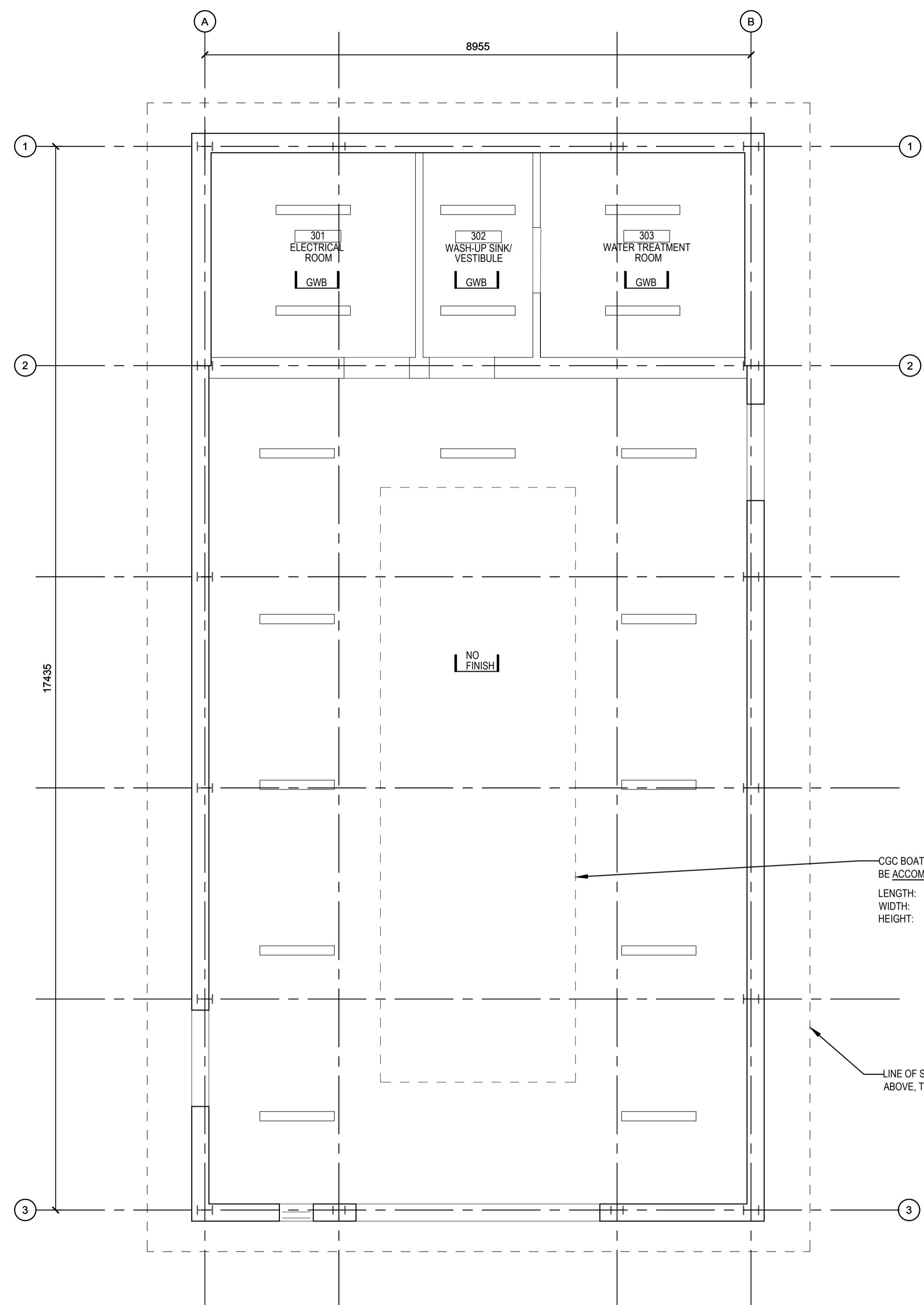


LEGEND

- CEILING FAN/LIGHT
- TYPICAL LED POT LIGHTS
- LED LUMINAIRE
- EXIT SIGN
- SUPPLY AIR
- RETURN AIR
- EXHAUST AIR
- LINEAR DIFFUSER
- FAN
- APPROXIMATE AREA WHERE CEILING ACCESS HATCH REQUIRED. SIZE AND FINAL LOCATION TO BE COORDINATED ON SITE WITH ARCHITECTURAL LAYOUT DESIGN AND ALL DISCIPLINE DRAWINGS.
- CEILING HEIGHT AND FINISH
- GYPSUM WALL BOARD
- PREFINISHED ALUMINUM PANEL
- EXPOSED

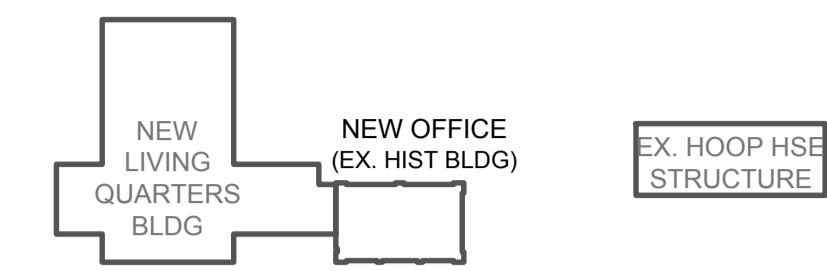
NOTES:
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1 OFFICE BUILDING - REFLECTED CEILING PLAN
A311 1:50



1 NEW GARAGE/UTILITY BUILDING - NEW REFLECTED CEILING PLAN
A312 1:50

KEY PLAN



NEW GRG/UTLTY BLDG

LEGEND

- CEILING FAN/LIGHT
- TYPICAL LED POT LIGHTS
- LED LUMINAIRE
- EXIT SIGN
- SUPPLY AIR
- RETURN AIR
- EXHAUST AIR
- LINEAR DIFFUSER
- FAN
- CEILING FINISH
- GWB** GYPSUM WALL BOARD
- PAP** PREFINISHED ALUMINUM PANEL
- EXP** EXPOSED

NOTES:

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3. SUPPLIER/CONTRACTOR IS RESPONSIBLE FOR FULL COORDINATION AND INSTALLATION OF ALL SERVICES AND REQUIREMENTS NOTED IN CONTRACT DOCUMENTS.
4. CEILING HEIGHT AT ROOMS 301, 302, 303, TO BE AS HIGH AS POSSIBLE. GWB CEILING MAY BE INSTALLED SLOPED PARALLEL TO THE STEEL PURLINS.

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| 01 | ISSUED FOR TENDER | 2021-07-26 |
| revision | | date |

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

project title
 titre du projet
PORT WELLER
 DEPARTMENT OF FISHERIES AND OCEANS
 SEARCH AND RESCUE STATION
 ST CATHARINES
**DEMOLITION, RENOVATION,
 AND NEW CONSTRUCTION**

drawing title
 titre du dessin
**NEW REFLECTED CEILING PLAN -
 NEW GARAGE/UTILITY BUILDING**

drawn by
 dessiné par **AK/KS**

designed by
 conc par **Chu/KS**

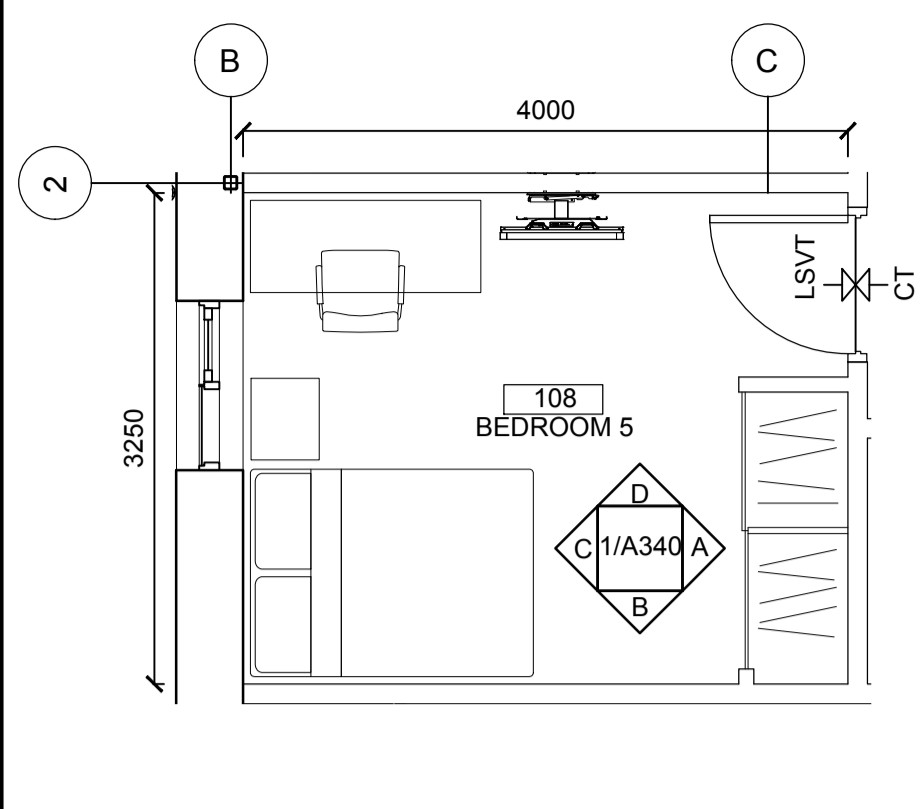
approved by
 approuvé par **JT**

bid offer **KG** project manager
 administrateur de projets

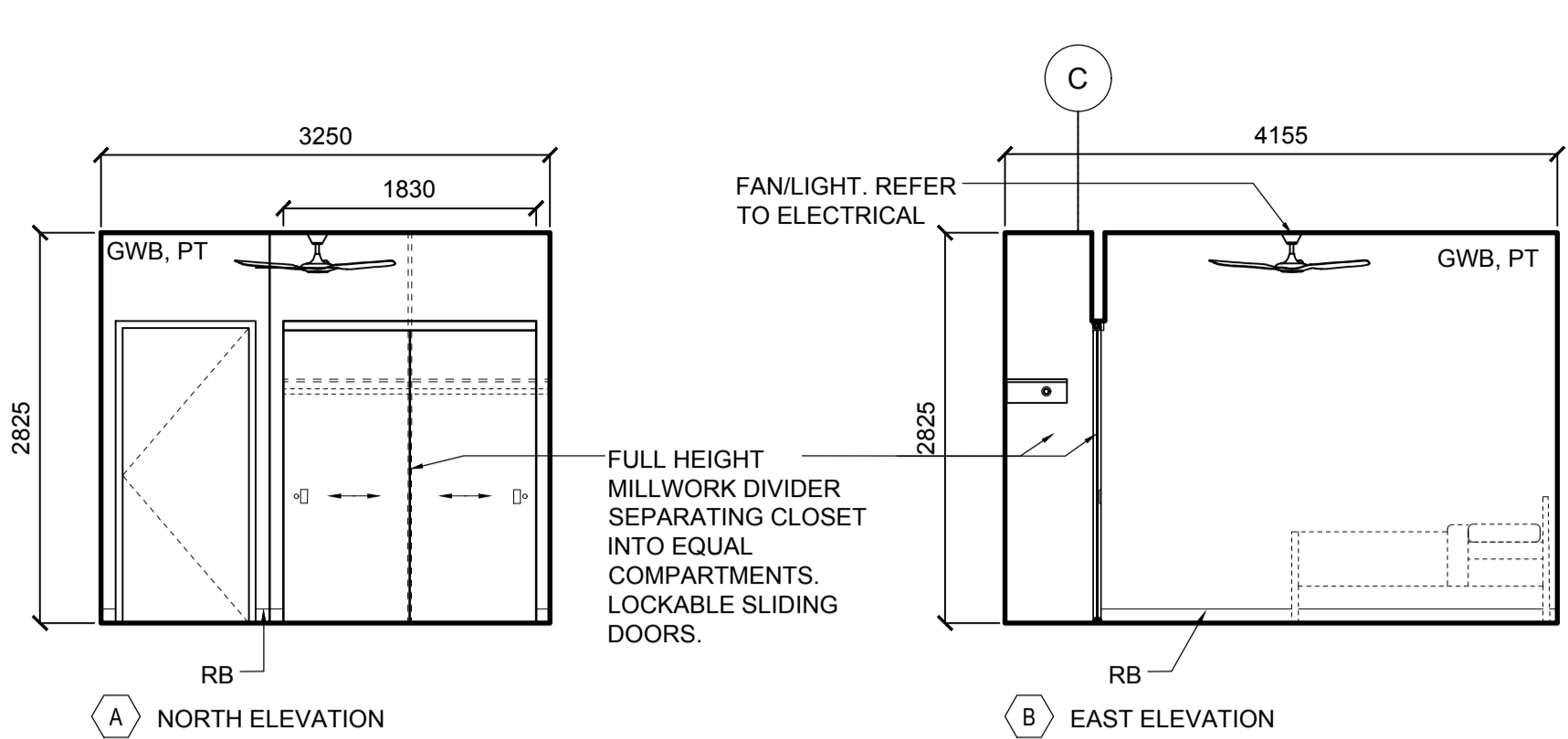
project date
 date du projet **2021.07.26**

project no.
 no. du projet **R.079827.001**

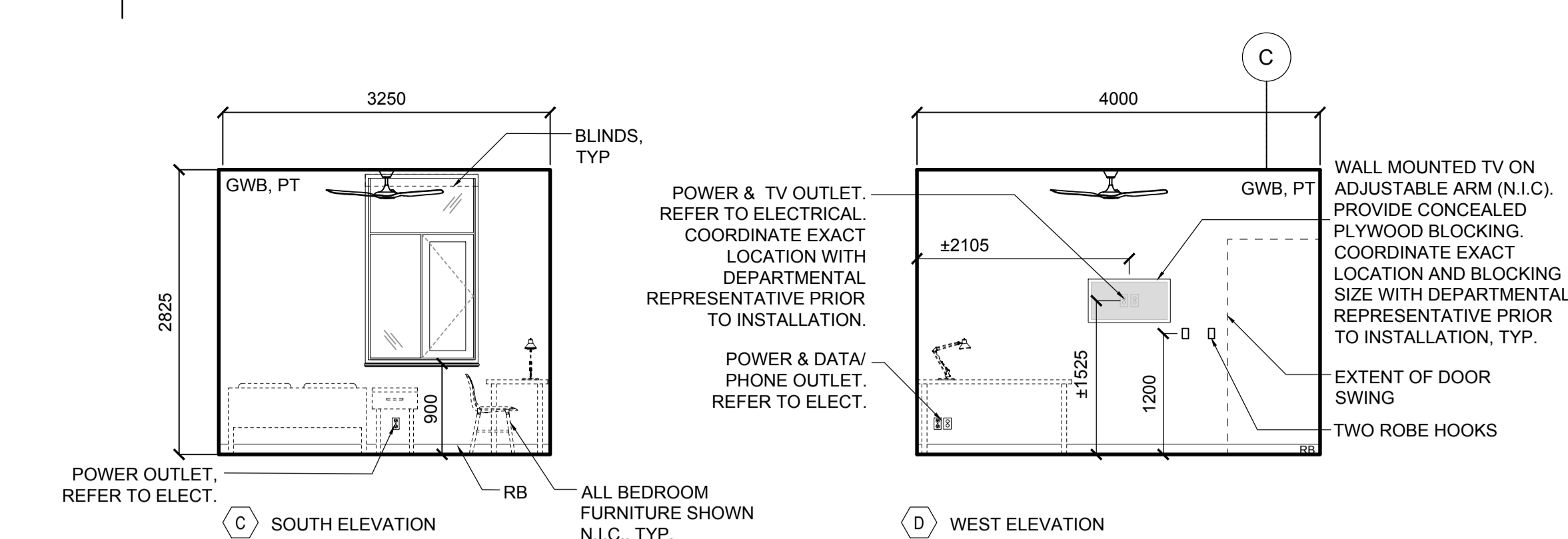
drawing no.
 dessiné no. **A312**



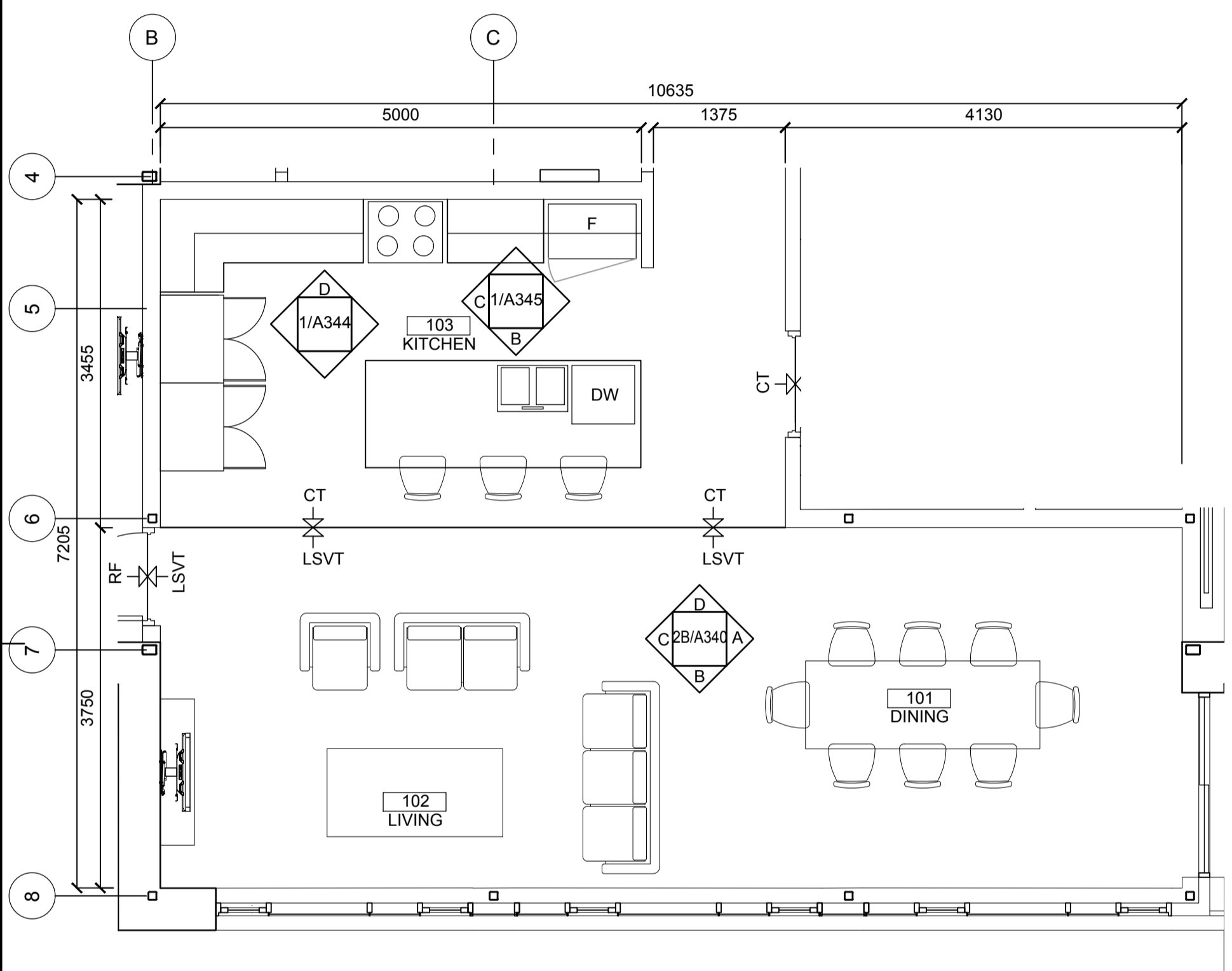
1A TYPICAL BEDROOM - PLAN
A340 1:50



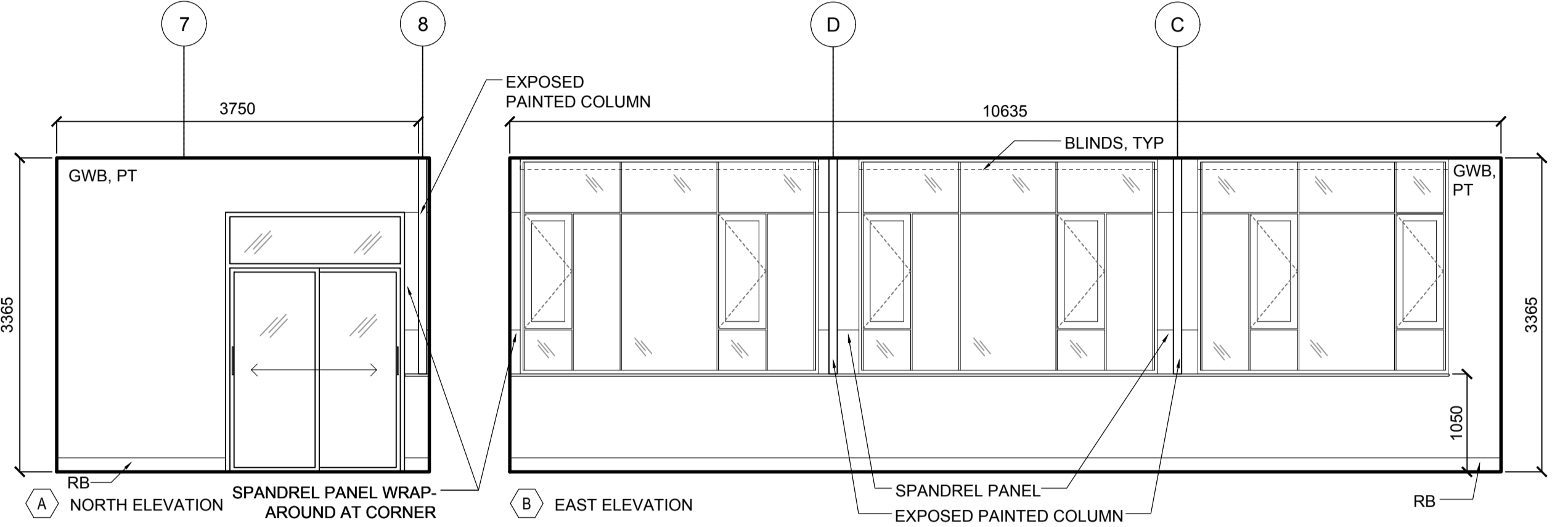
1B TYPICAL BEDROOM - ELEVATIONS
A340 1:50



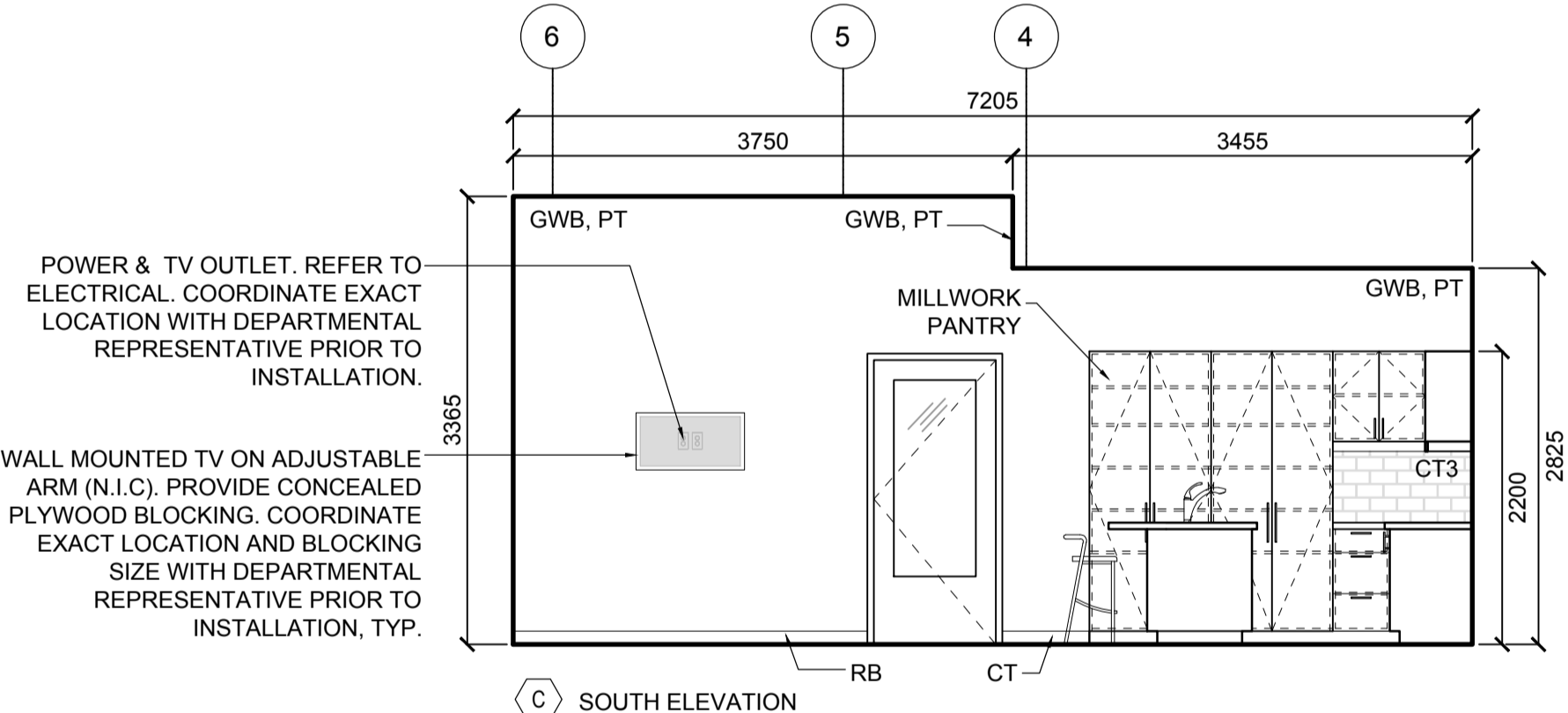
1B TYPICAL BEDROOM - ELEVATIONS (continued)
A340 1:50



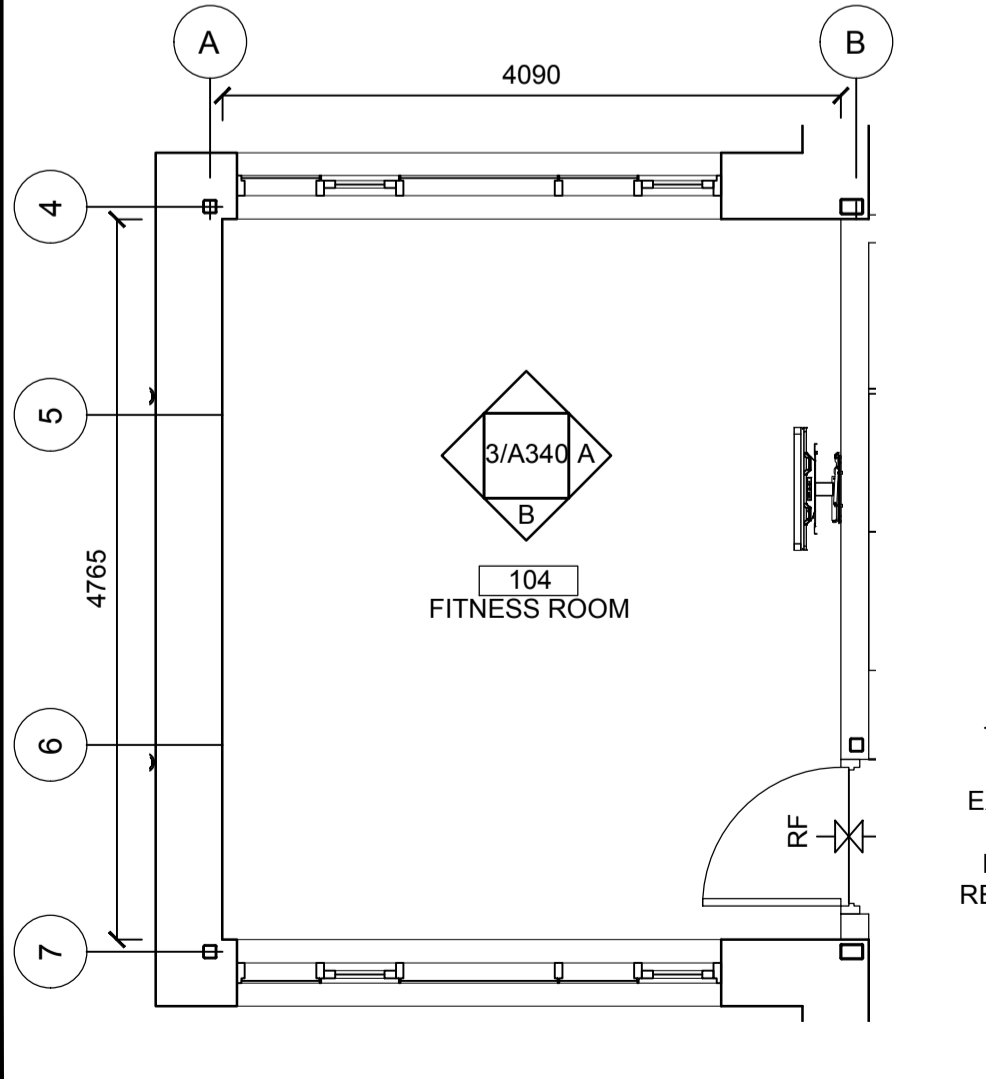
2A RM 101/102/103 - DINING/ LIVING/ KITCHEN - PLAN
A340 1:50



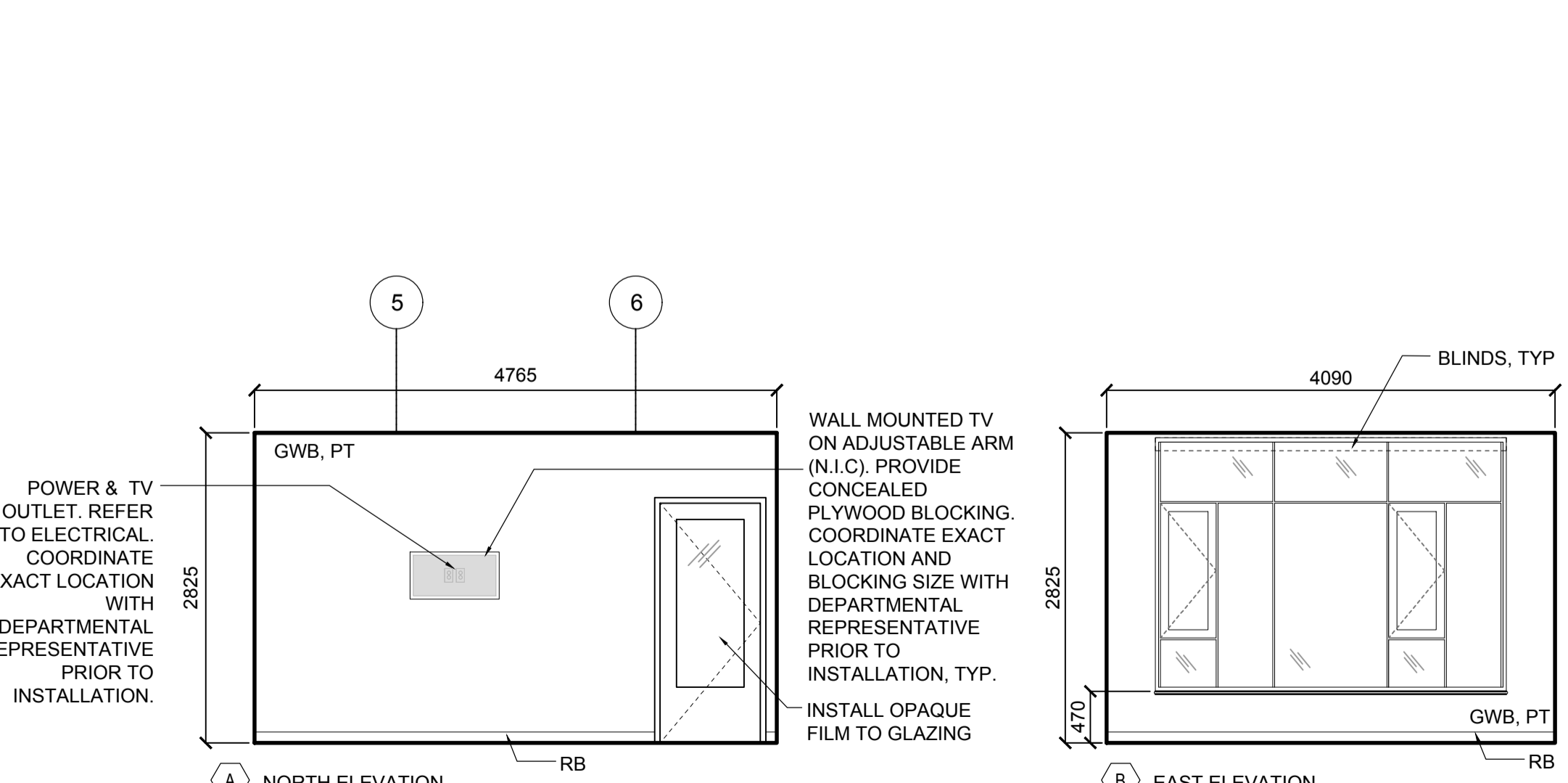
2B RM 101/102/103 - DINING/ LIVING/ KITCHEN - ELEVATIONS
A340 1:50



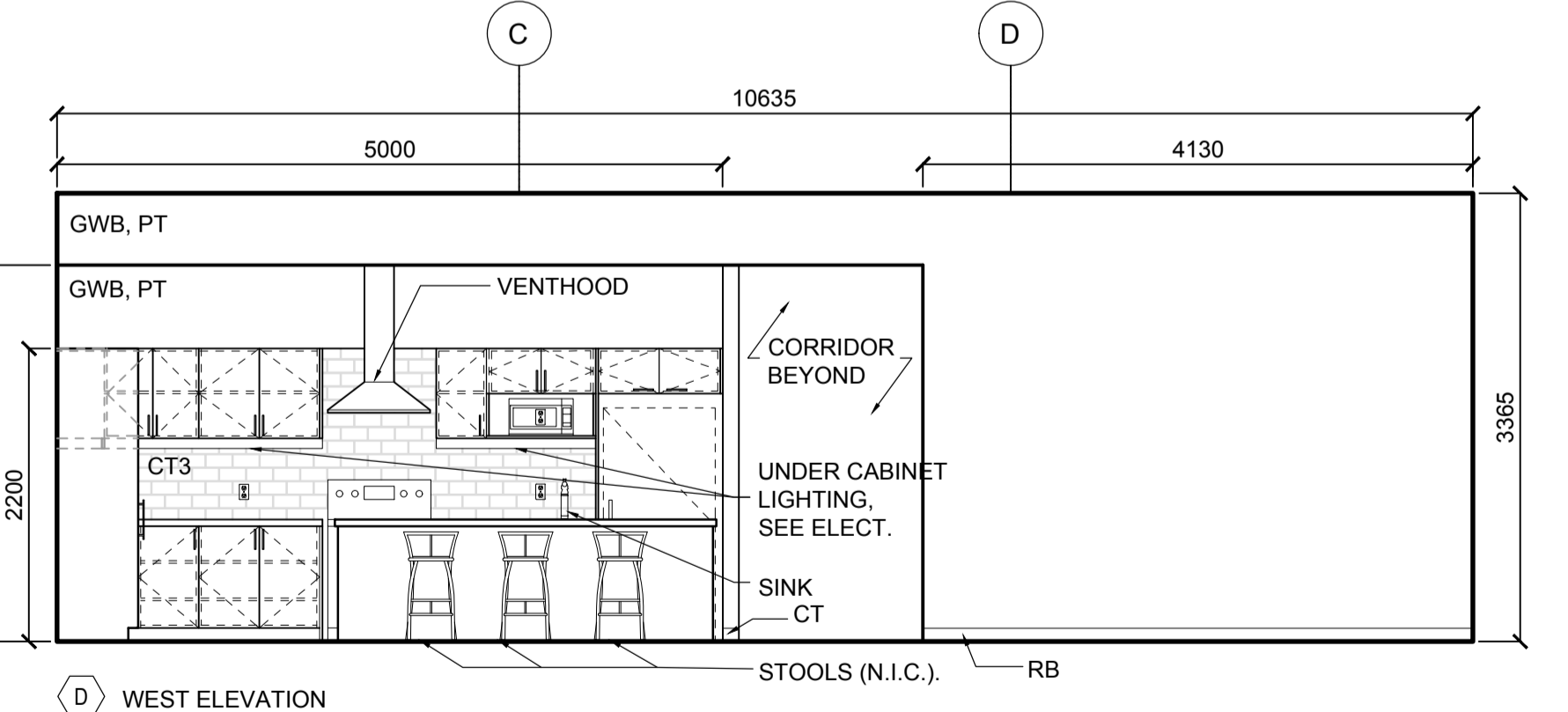
2B RM 101/102/103 - DINING/ LIVING/ KITCHEN - ELEVATIONS (continued)
A340 1:50



3A RM 104 - FITNESS ROOM - PLAN
A340 1:50



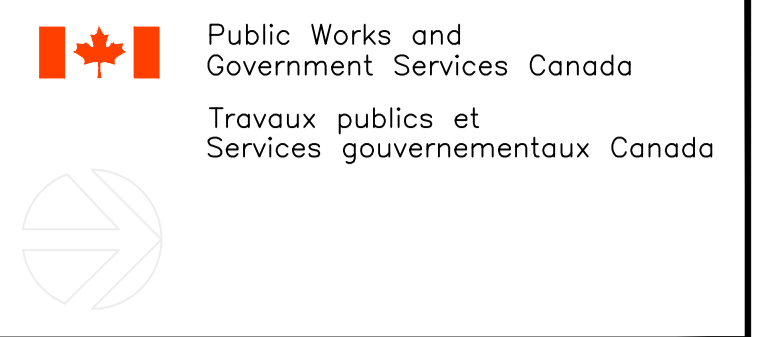
3B RM 104 - FITNESS ROOM - ELEVATIONS
A340 1:50



2B RM 101/102/103 - DINING/ LIVING/ KITCHEN - ELEVATIONS (continued)
A340 1:50

NOTE:
1. REFER TO A023 EQUIPMENT COORDINATION SCHEDULE FOR SUPPLY AND INSTALL SCOPE OF WORK FOR APPLIANCES, EQUIPMENT, FURNITURE, OTHERS.

- A NORTH ELEVATION
- B EAST ELEVATION
- C SOUTH ELEVATION
- D WEST ELEVATION



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project title
titre du projet
PORT WELLER
DEPARTMENT OF FISHERIES AND OCEANS
A340 New Living Quarters Interior Elevations
ST CATHARINES
**DEMOLITION, RENOVATION,
AND NEW CONSTRUCTION**

drawing title
titre du dessin
**NEW INTERIOR ELEVATIONS
NEW LIVING QUARTERS**

drawn by
dessiné par AK/KS

designed by
conçu par CHu/KS

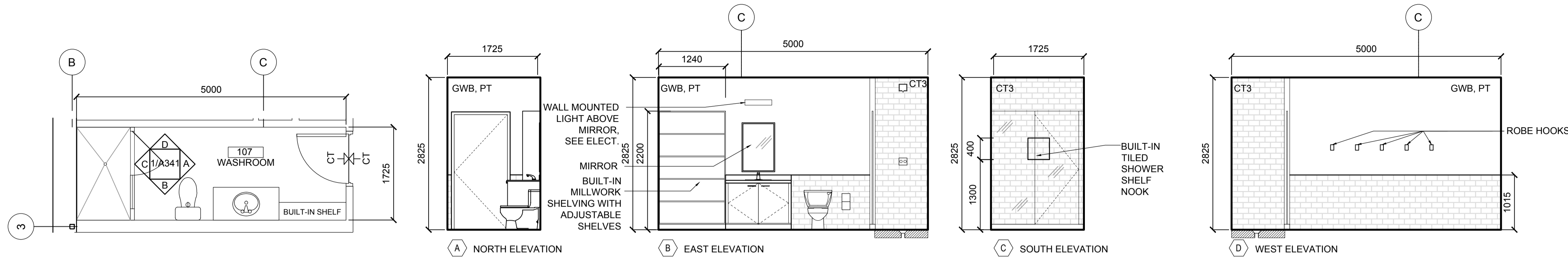
approved by
approuvé par JT

bid
offre KG project manager
administrateur de projets

project date
date du projet 2021.07.26

project no.
no. du projet R.079827.001

drawing no.
dessiné no. A340



GENERAL NOTE:
MOUNT SHOWER HEAD AT WASHROOMS TO ACCOMMODATE PEOPLE UP TO 2000MM TALL. COORDINATE FINAL MOUNTING HEIGHT OF SHOWER HEAD WITH DEPARTMENTAL REPRESENTATIVE PRIOR TO INSTALLATION.

Public Works and Government Services Canada
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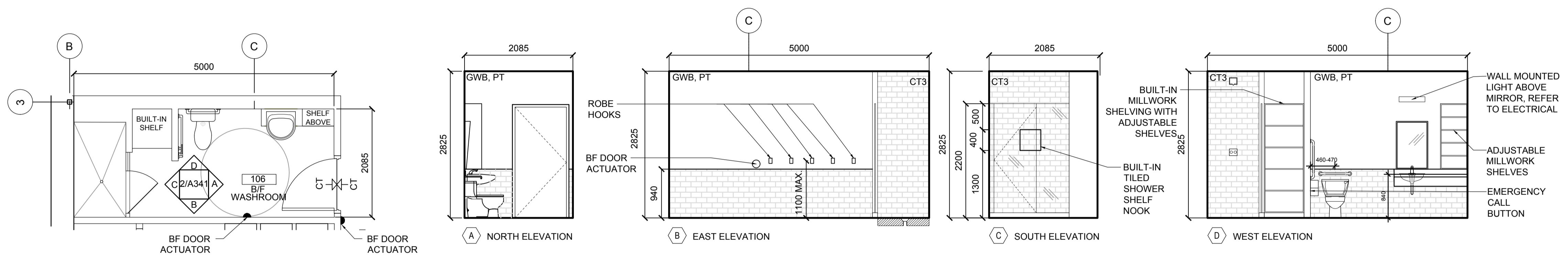
project title
titre du projet
PORT WELLER
DEPARTMENT OF FISHERIES AND OCEANS
SEARCH AND RESCUE STATION
ST CATHARINES
**DEMOLITION, RENOVATION,
AND NEW CONSTRUCTION**

drawing title
titre du dessin
**NEW INTERIOR ELEVATIONS
NEW LIVING QUARTERS**

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|--|--------------|
| drawn by dessiné par | AK/KS |
| designed by conçu par | Chu/KS |
| approved by approuvé par | JT |
| bid offre | KG |
| project manager administrateur de projets | |
| project date date du projet | 2021.07.26 |
| project no. no. du projet | R.079827.001 |
| drawing no. dessiné no. | A341 |

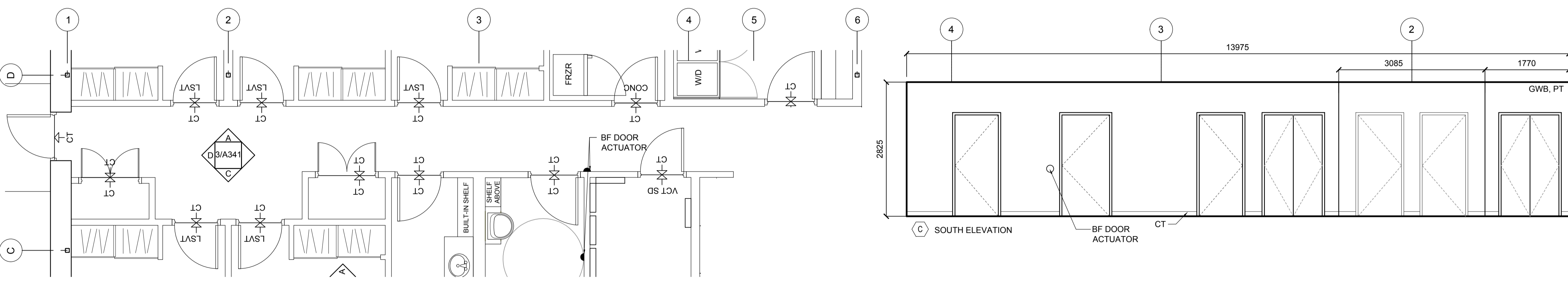
1A RM 107 - WASHROOM PLAN
A341 1:50

1B RM 107 - WASHROOM ELEVATIONS
A341 1:50

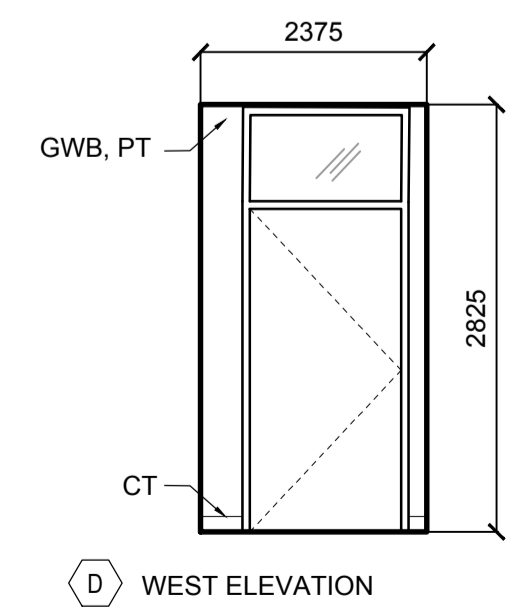


2A RM 106 - B.F. WASHROOM PLAN
A341 1:50

2B RM 106 - B.F. WASHROOM ELEVATIONS
A341 1:50



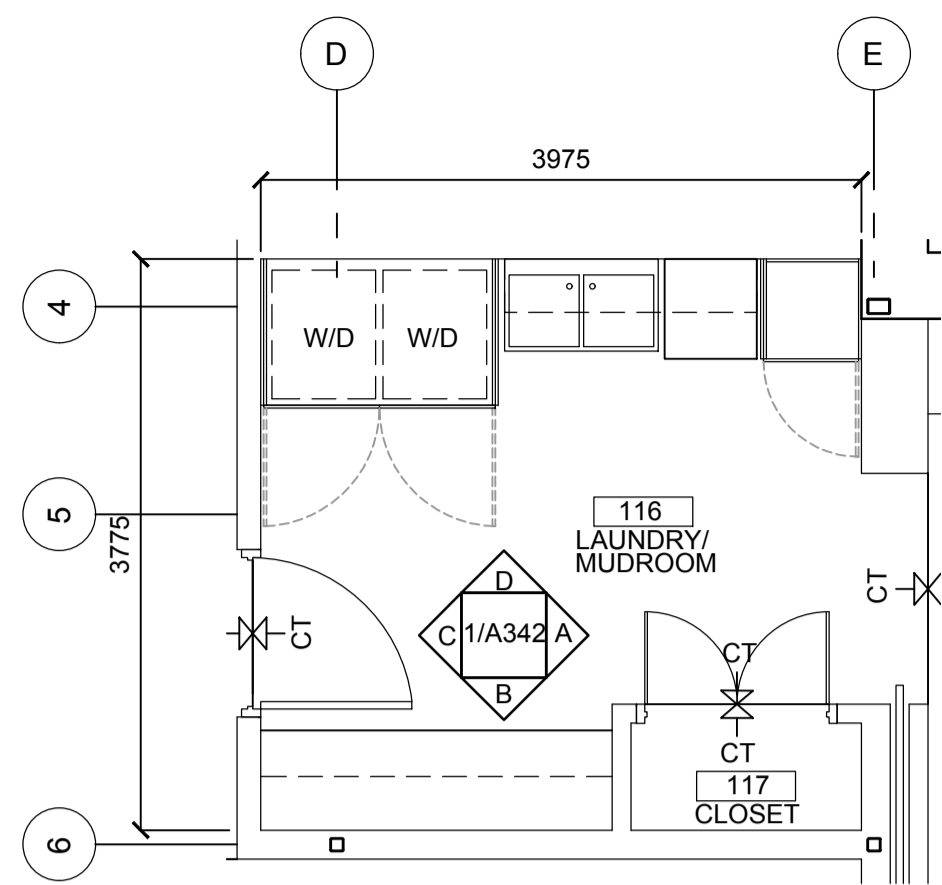
3A RM 118 - CORRIDOR PLAN
A341 1:50



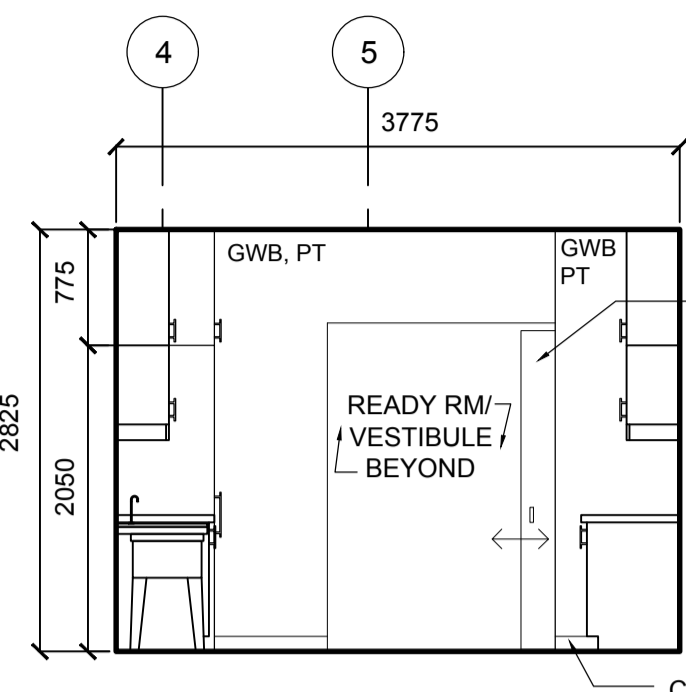
3B RM 118 - CORRIDOR ELEVATIONS
A341 1:50

- A NORTH ELEVATION
- B EAST ELEVATION
- C SOUTH ELEVATION
- D WEST ELEVATION

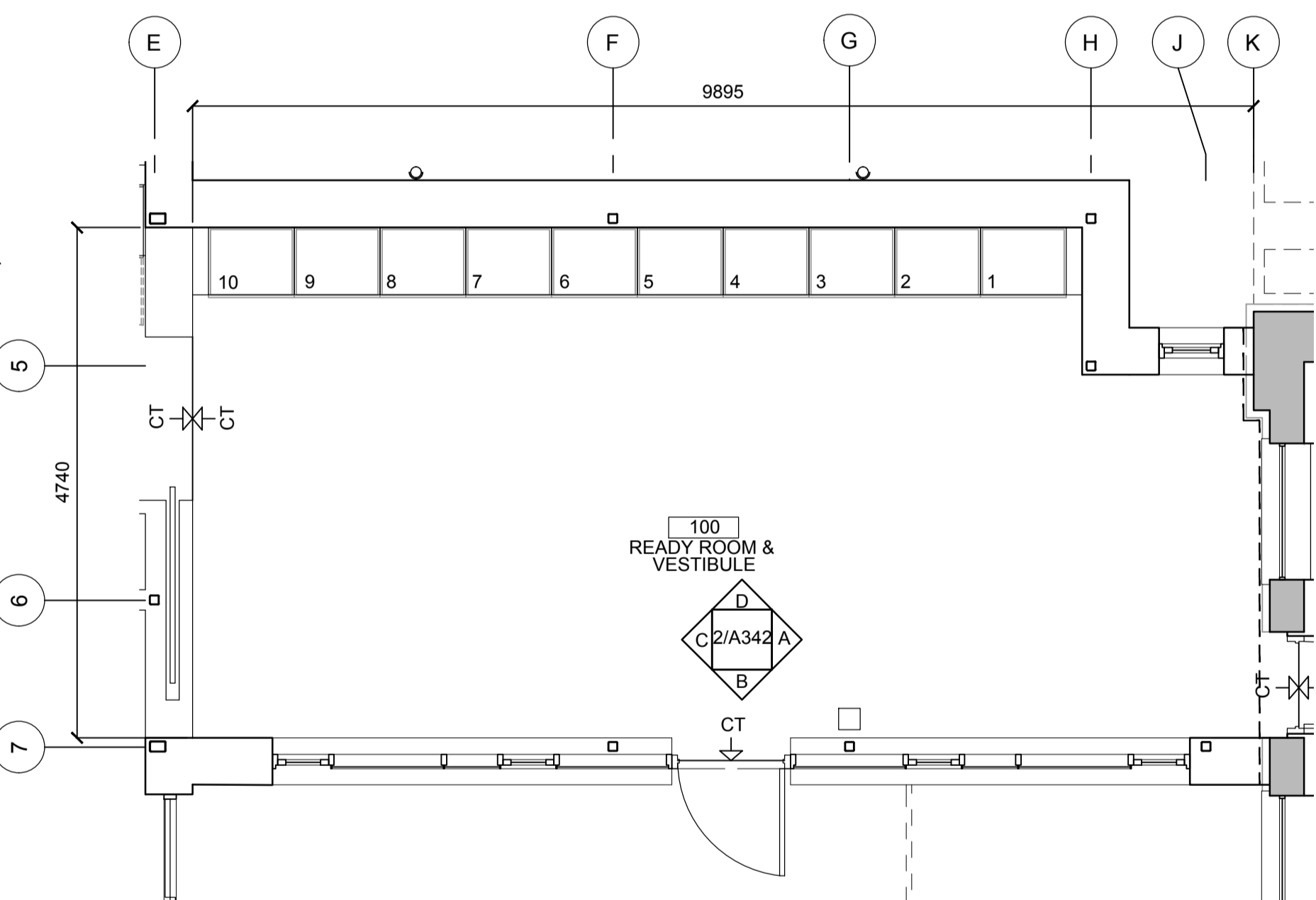
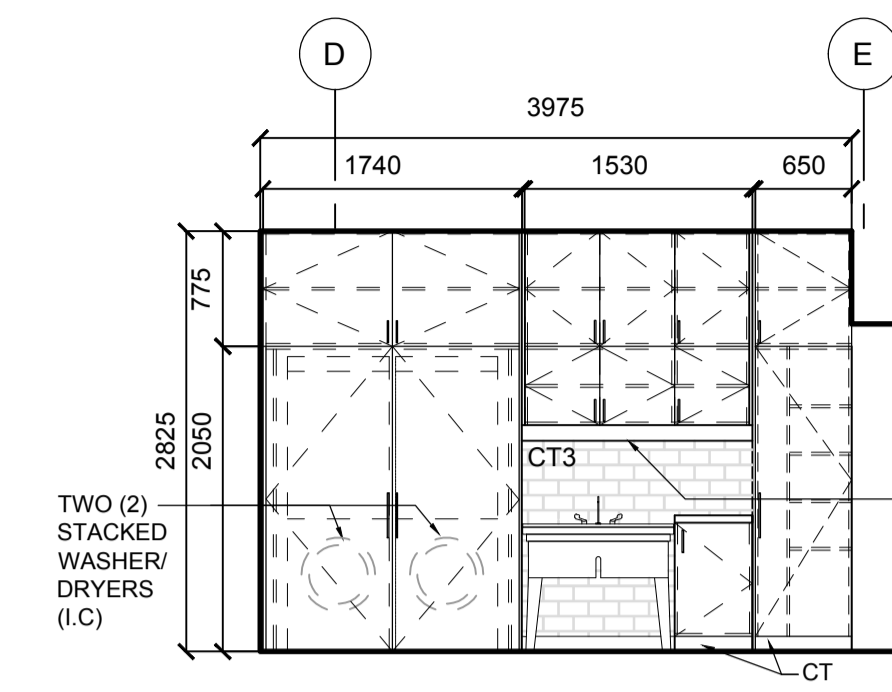
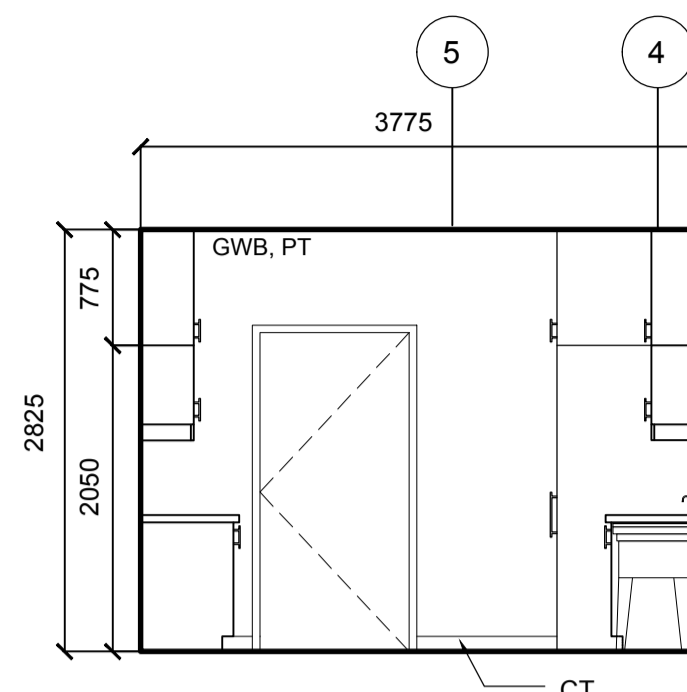
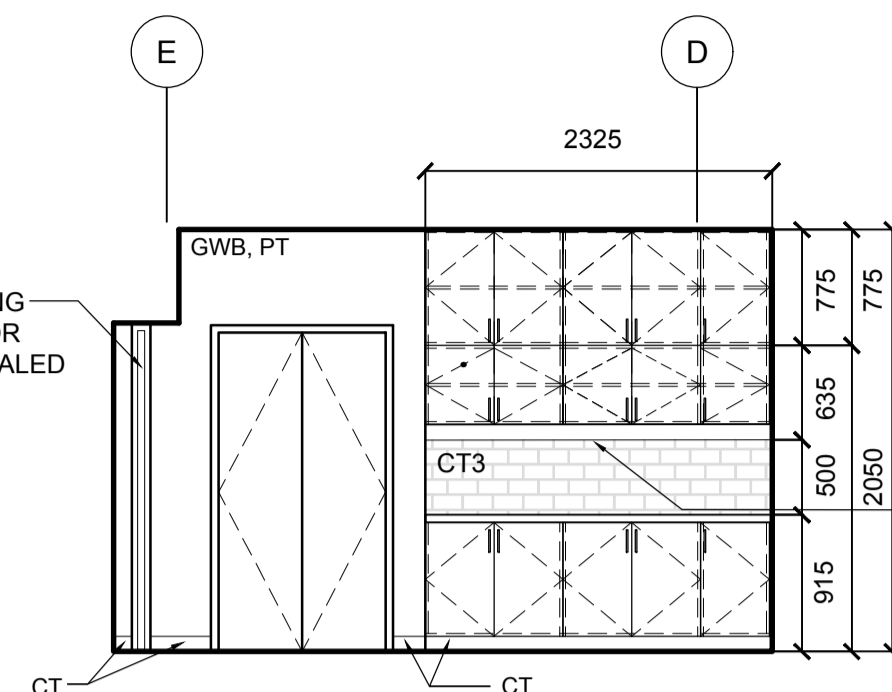
NOTE:
1. REFER TO A023 EQUIPMENT COORDINATION SCHEDULE FOR SUPPLY AND INSTALL SCOPE OF WORK FOR APPLIANCES, EQUIPMENT, FURNITURE, OTHERS.



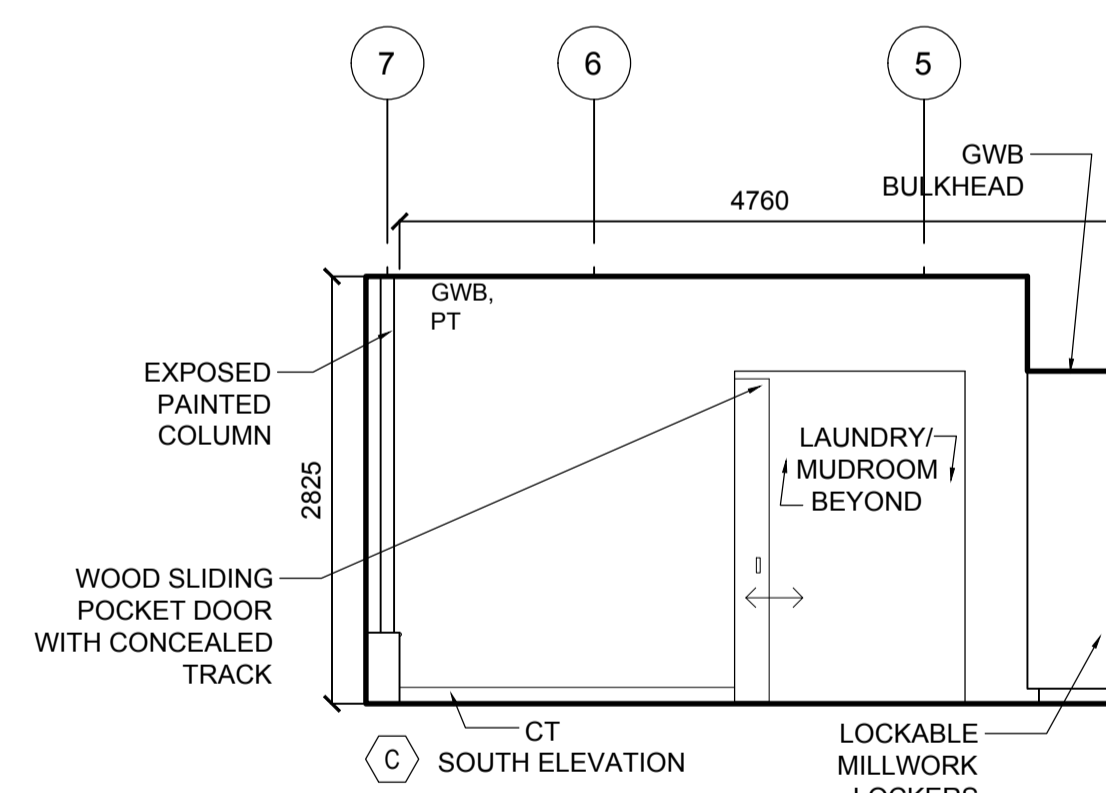
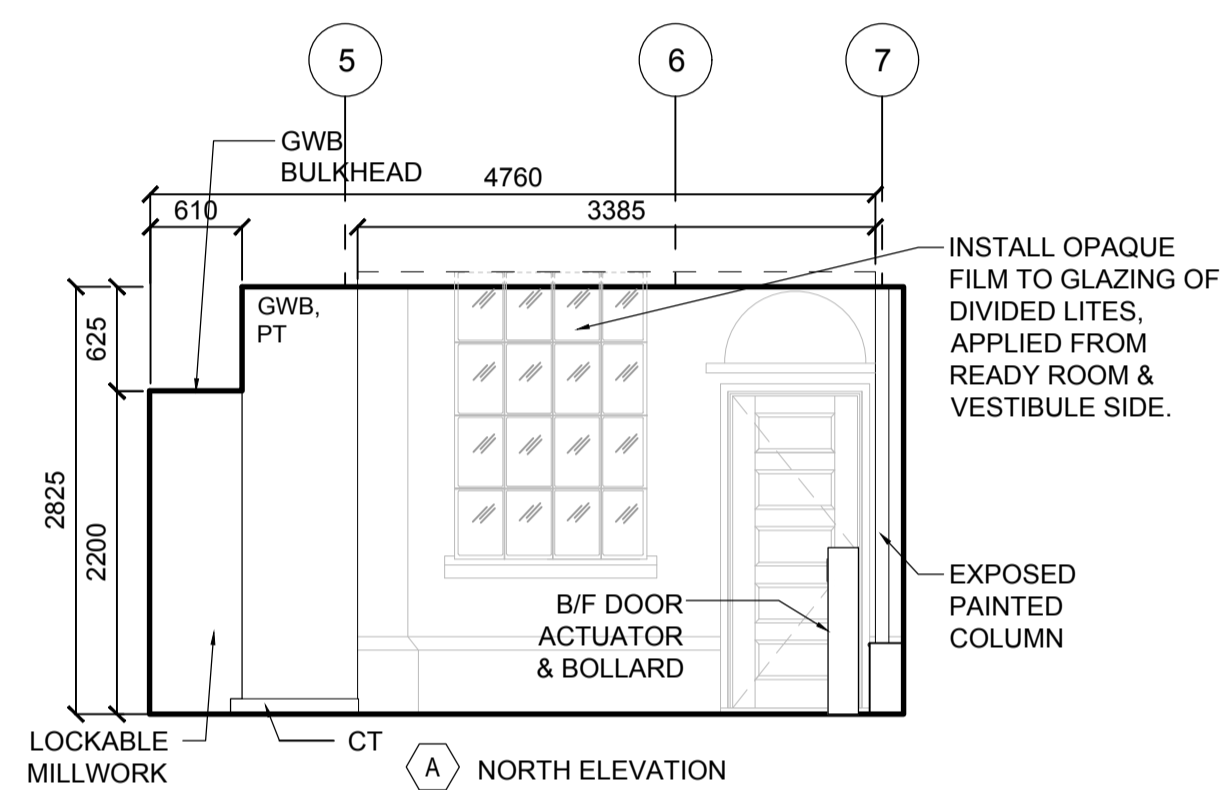
1A RM 116 - LAUNDRY/MUDROOM PLAN
A342 1:50



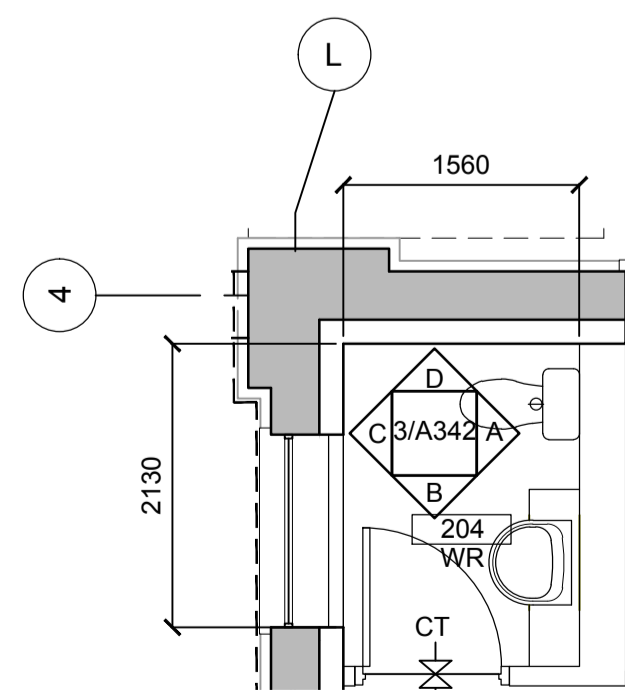
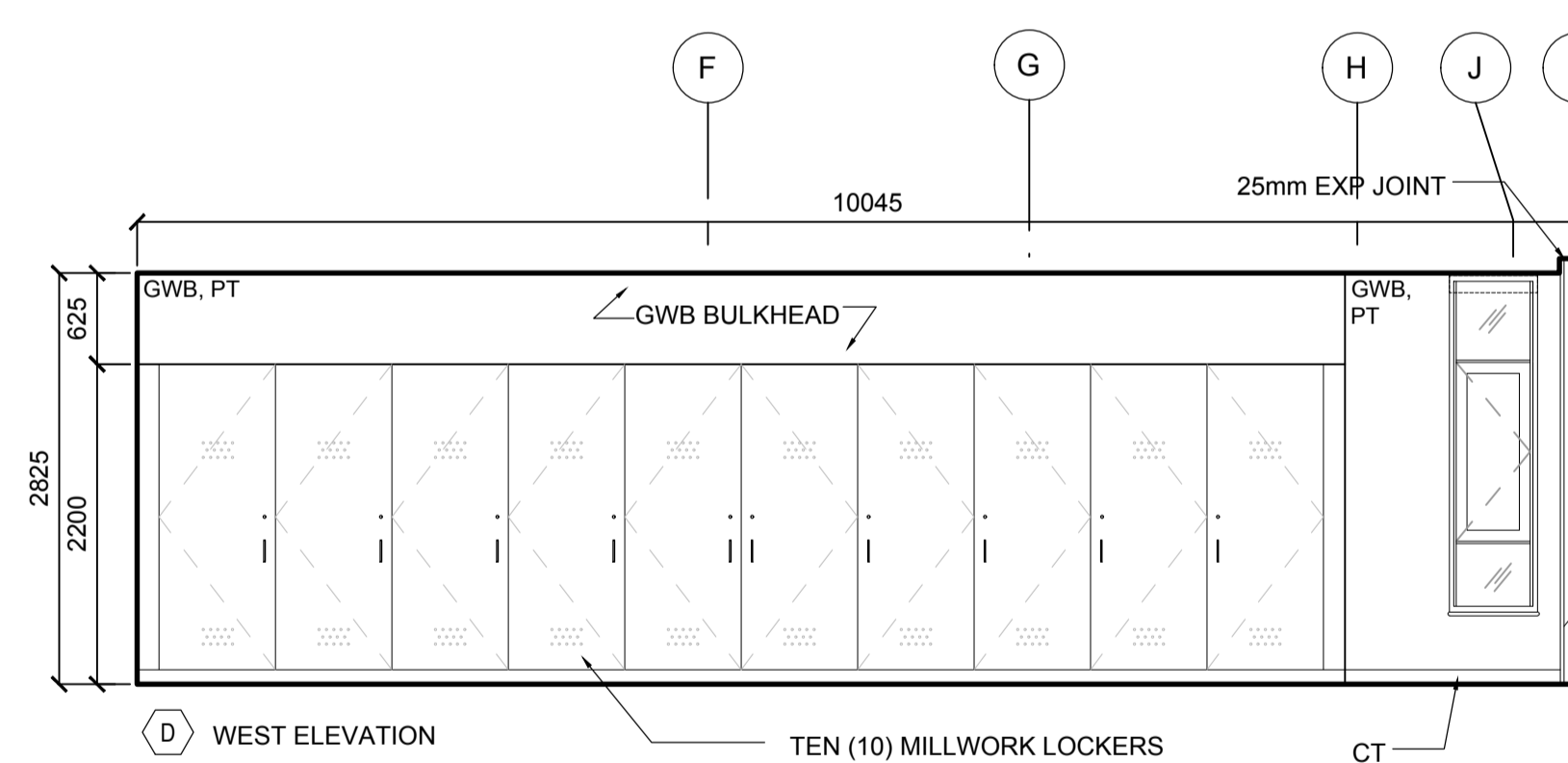
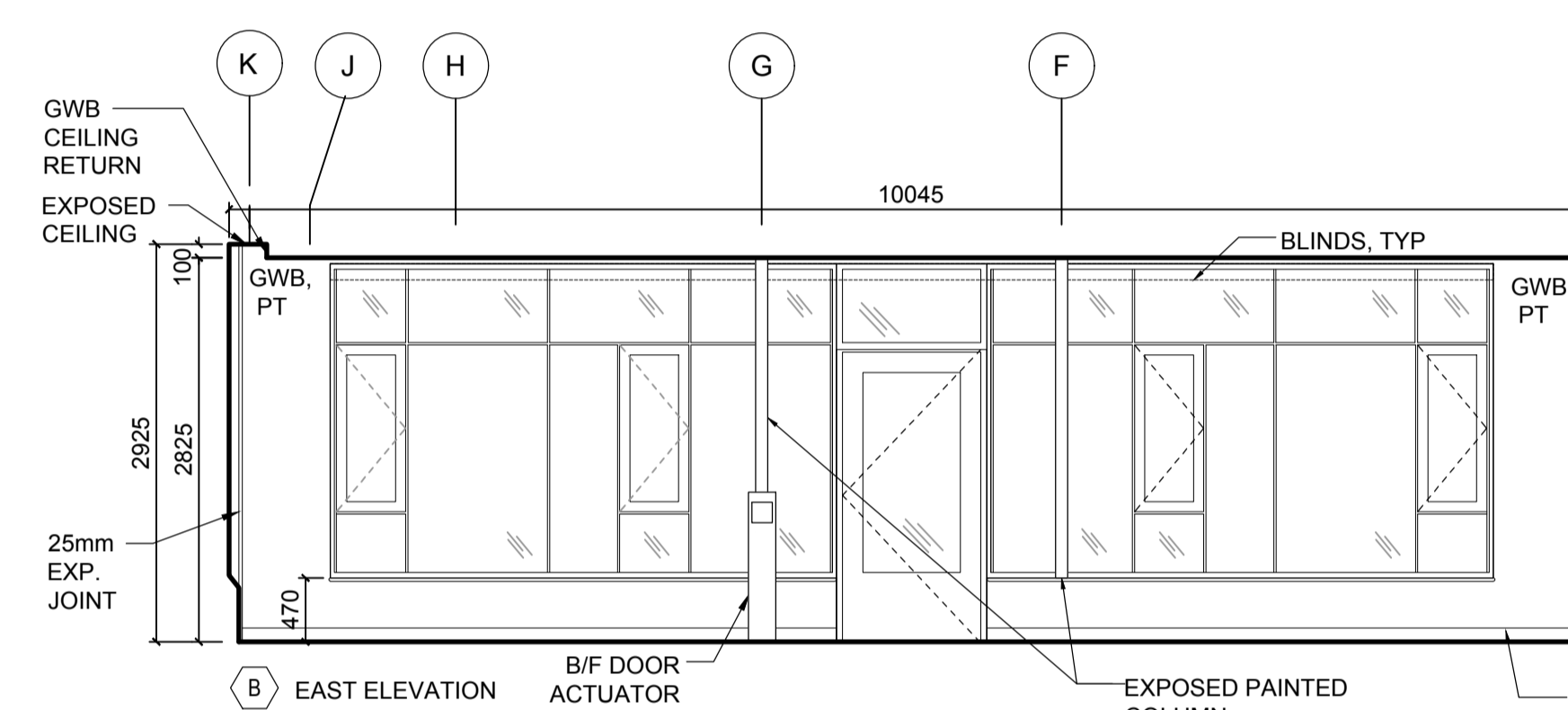
1B RM 116 - LAUNDRY/MUDROOM ELEVATIONS
A342 1:50



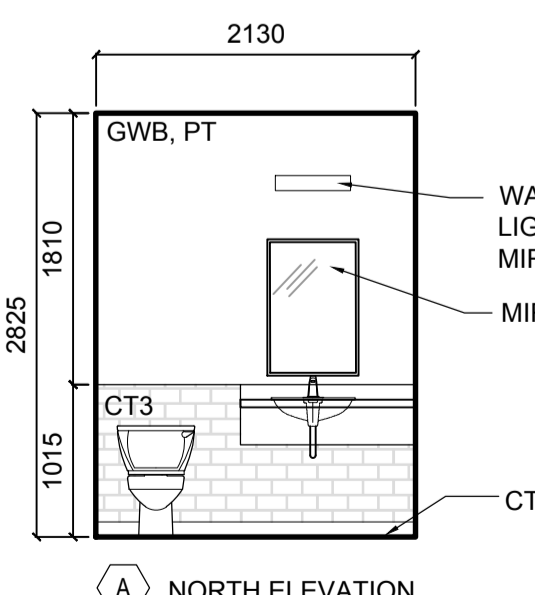
2A RM 100 - READY ROOM/VESTIBULE - PLAN
A342 1:50



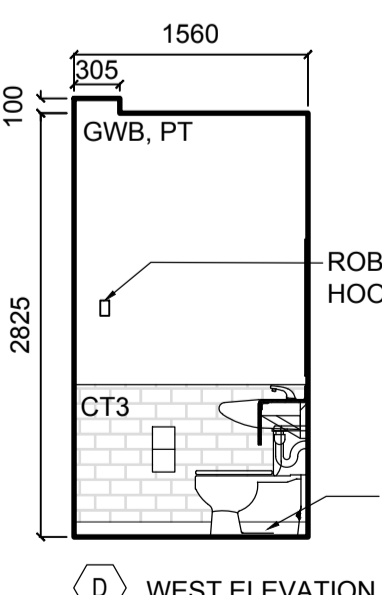
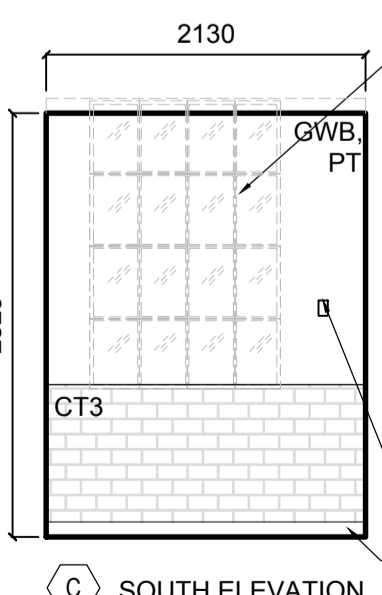
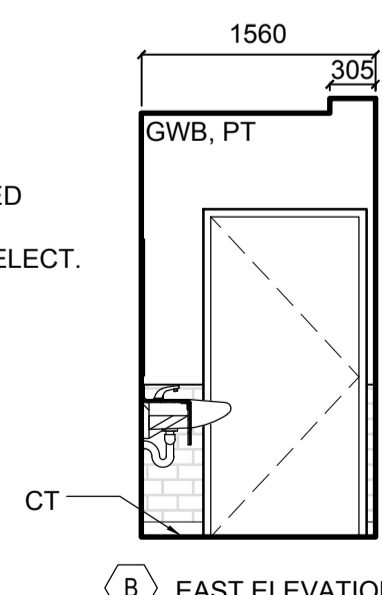
2B RM 100 - READY ROOM/VESTIBULE - ELEVATIONS
A342 1:50



3A RM 204 - WASHROOM - PLAN
A342 1:50



3B RM 204 - WASHROOM - ELEVATIONS
A342 1:50



NOTE:
1. REFER TO A023 EQUIPMENT COORDINATION SCHEDULE FOR SUPPLY AND INSTALL SCOPE OF WORK FOR APPLIANCES, EQUIPMENT, FURNITURE, OTHERS.

- A NORTH ELEVATION
- B EAST ELEVATION
- C SOUTH ELEVATION
- D WEST ELEVATION

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project title
titre du projet
PORT WELLER
DEPARTMENT OF FISHERIES AND OCEANS
SEARCH AND RESCUE STATION
ST CATHARINES
**DEMOLITION, RENOVATION,
AND NEW CONSTRUCTION**

drawing title
titre du dessin
**NEW INTERIOR ELEVATIONS
NEW LIVING QUARTERS
NEW OFFICE (HISTORIC BUILDING)**

drawn by
dessiné par AK/KS

designed by
conçu par KS

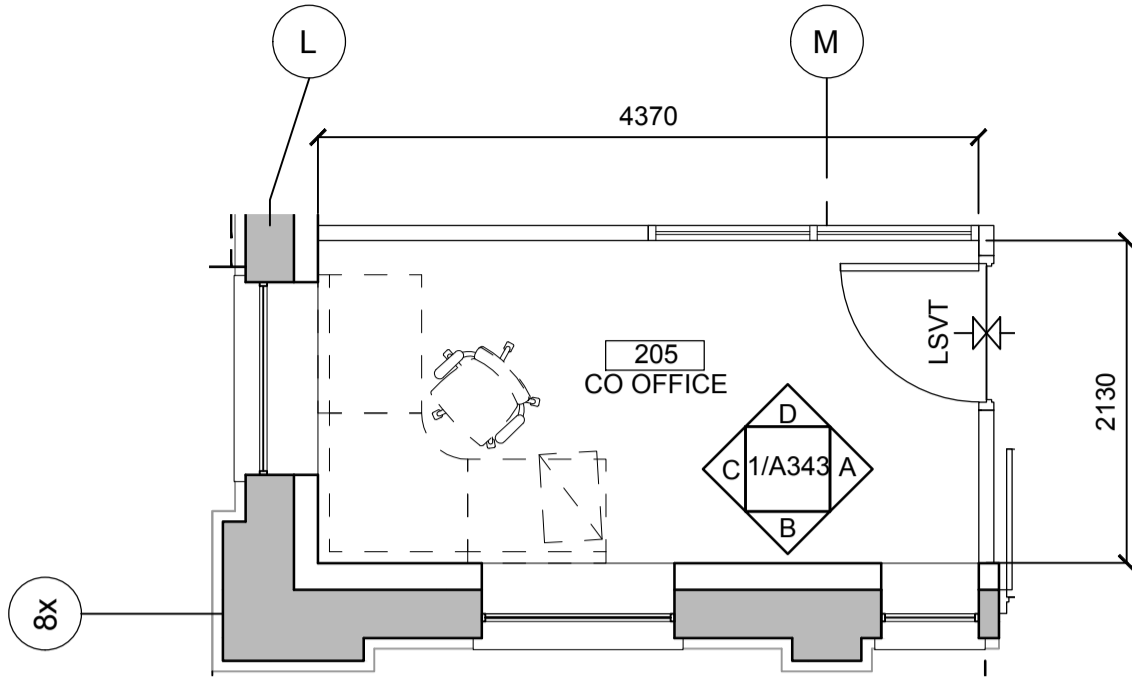
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bid offer
offre KG project manager
administrateur de projets

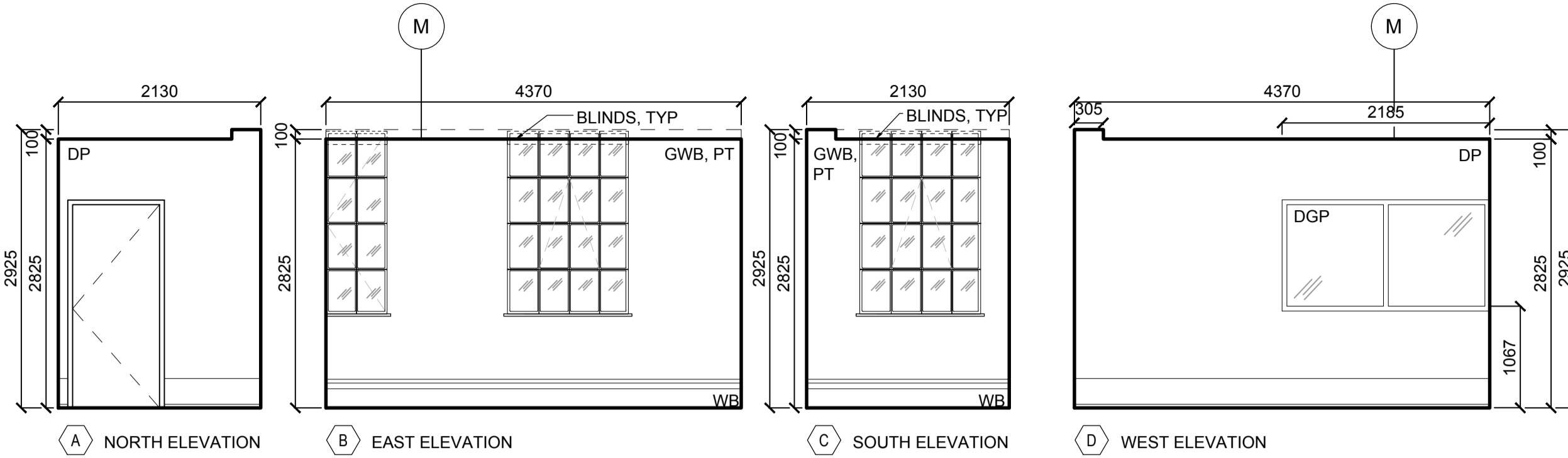
project date
date du projet 2021.07.26

project no.
no. du projet R.079827.001

drawing no.
dessiné no. A342



1A RM 205 - OFFICE - PLAN
A343 1:50



1B RM 205 - OFFICE - ELEVATIONS
A343 1:50

NOTE:
1. REFER TO A023
EQUIPMENT
COORDINATION SCHEDULE
FOR SUPPLY AND INSTALL
SCOPE OF WORK FOR
APPLIANCES, EQUIPMENT,
FURNITURE, OTHERS.

- (A) NORTH ELEVATION
- (B) EAST ELEVATION
- (C) SOUTH ELEVATION
- (D) WEST ELEVATION

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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
PORT WELLER
DEPARTMENT OF FISHERIES AND OCEANS
SEARCH AND RESCUE STATION
ST CATHARINES
**DEMOLITION, RENOVATION,
AND NEW CONSTRUCTION**

drawing title
titre du dessin
**NEW INTERIOR ELEVATIONS
NEW OFFICE (HISTORIC BUILDING)**

drawn by
dessiné par **AK/KS**

designed by
conçu par **Chu/KS**

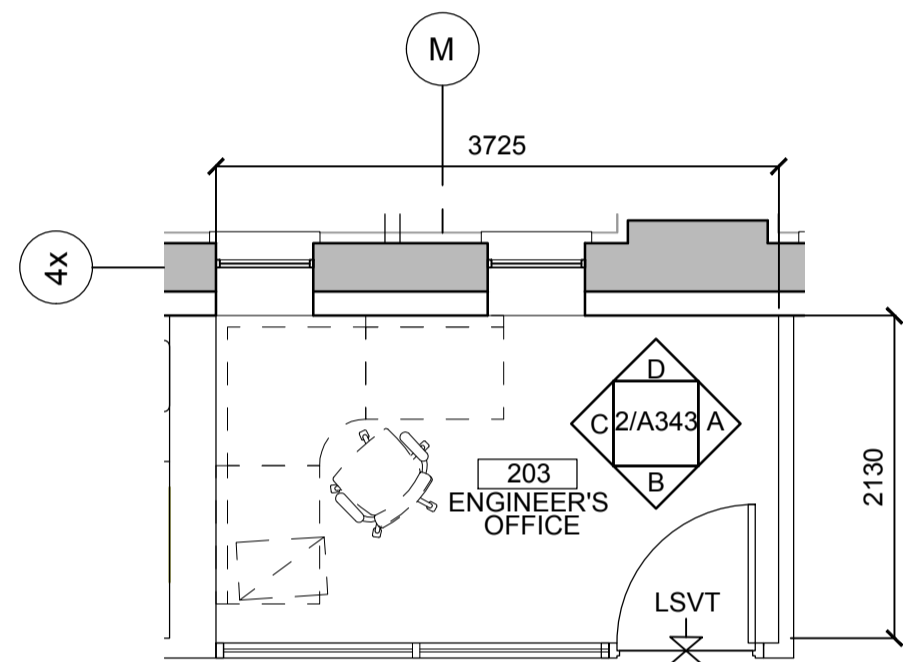
approved by
approuvé par **JT**

bid
offre **KG** project manager
administrateur
de projets

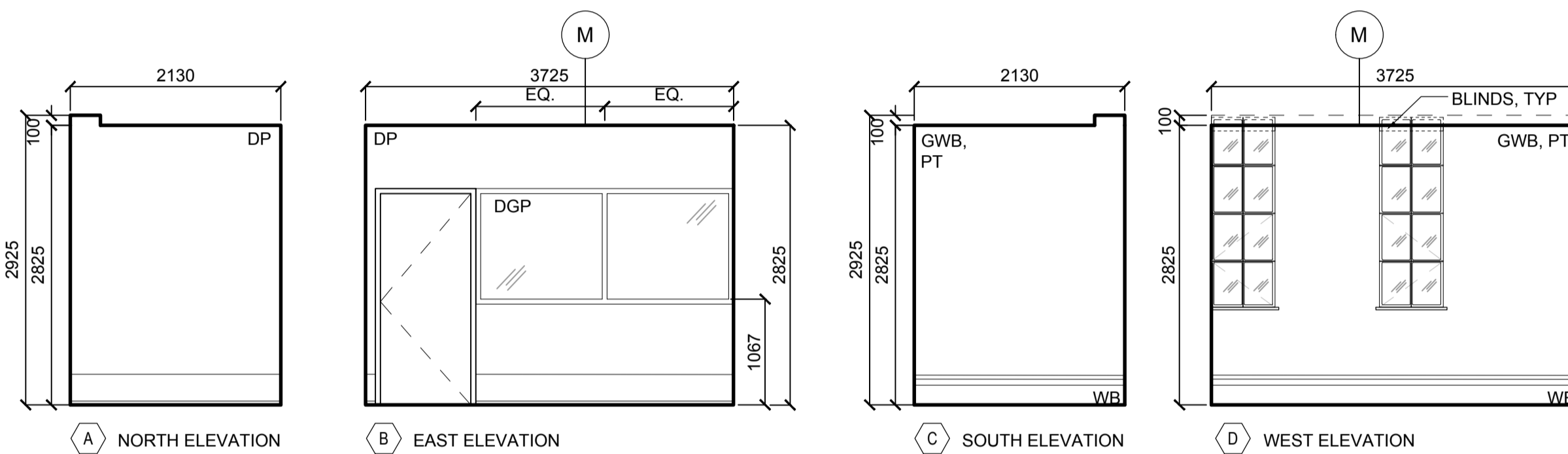
project date
date du projet **2021.07.26**

project no.
no. du projet **R.079827.001**

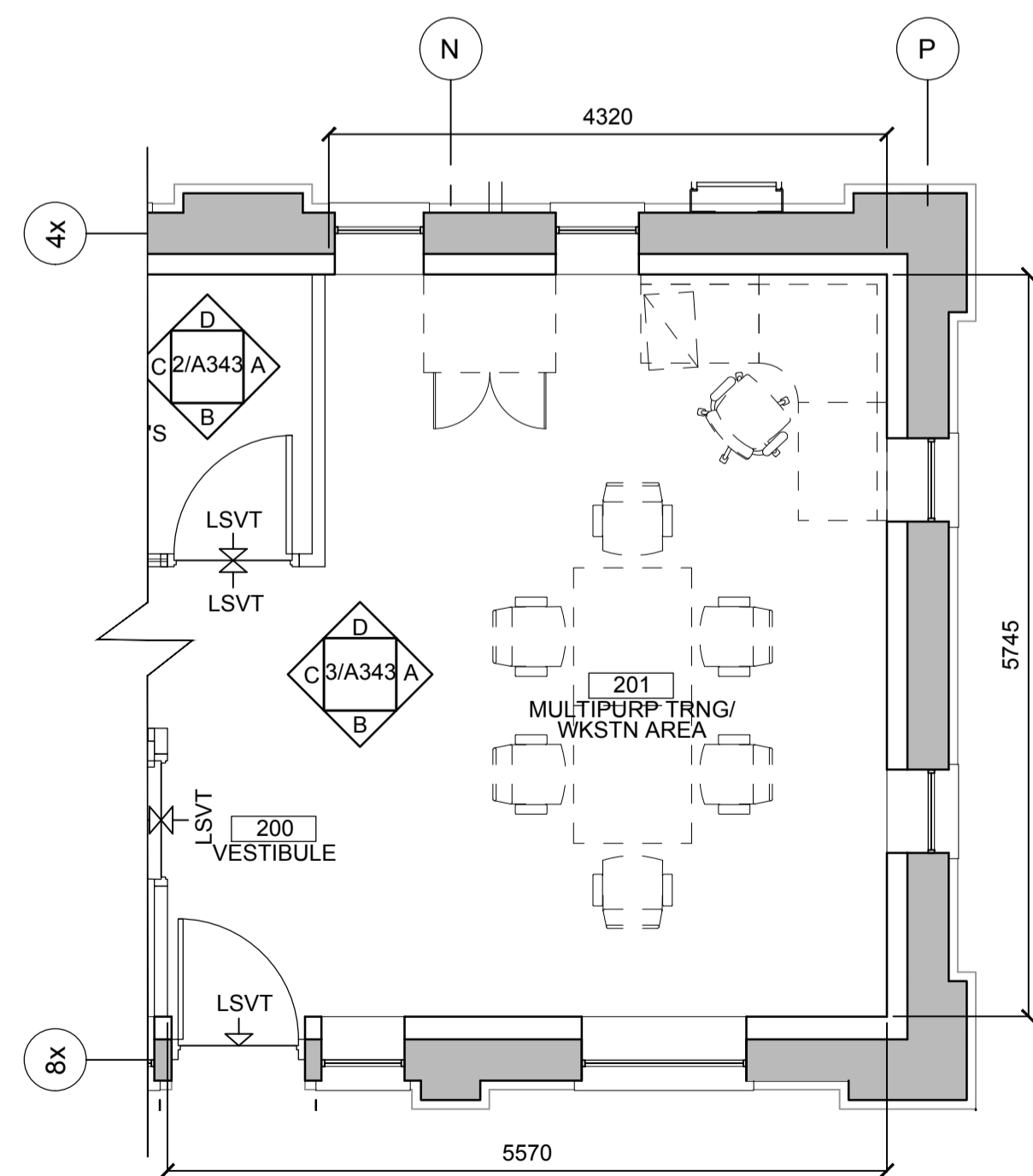
drawing no.
dessiné no. **A343**



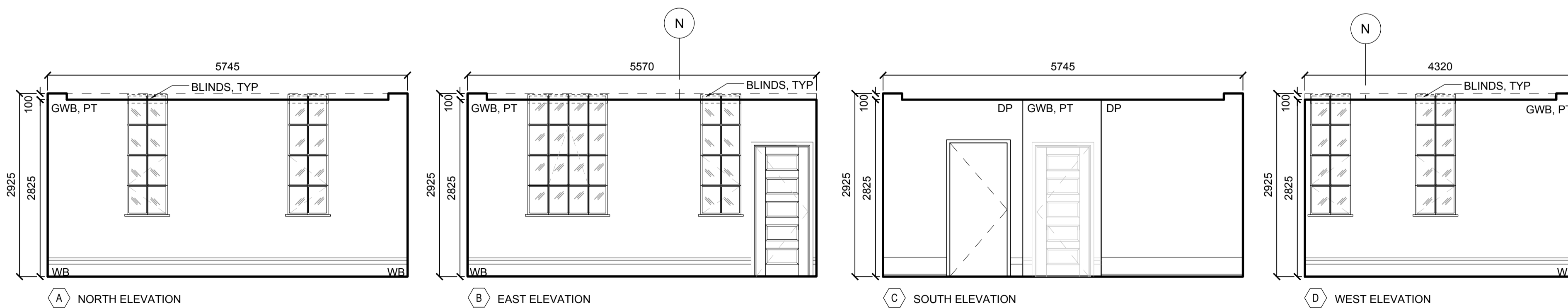
2A RM 203 - ENGINEER'S OFFICE - PLAN
A343 1:50



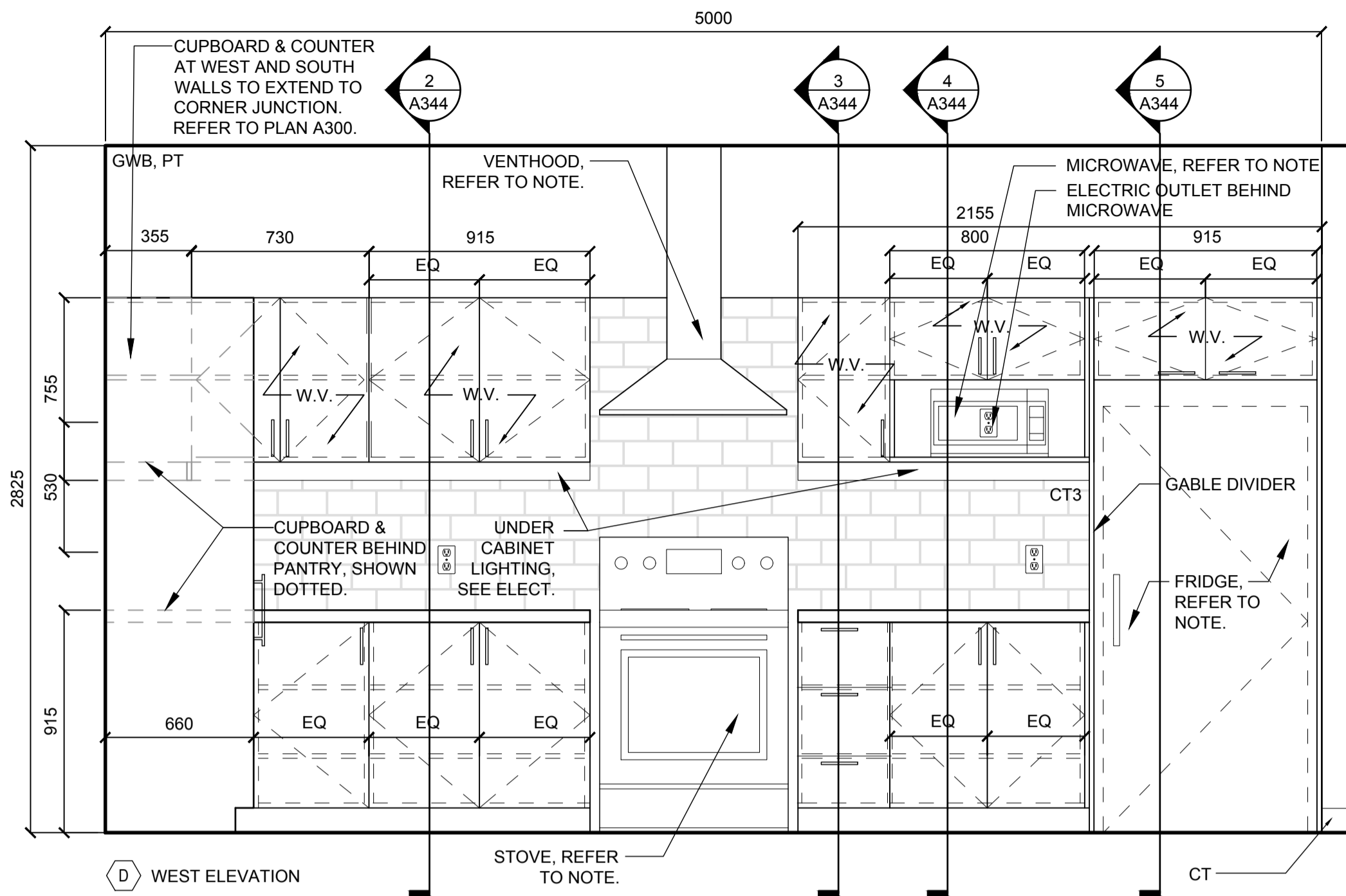
2B RM 203 - ENGINEER'S OFFICE - ELEVATIONS
A343 1:50



3A RM 201 - MULTIPURPOSE AREA - PLAN
A343 1:50



3B RM 201 - MULTIPURPOSE AREA - ELEVATIONS
A343 1:50



NOTE:

- WOOD VENEER FINISH ON ALL EXPOSED SURFACES, TYP.
- REFER TO A023 EQUIPMENT COORDINATION SCHEDULE FOR SUPPLY AND INSTALL SCOPE OF WORK FOR APPLIANCES, EQUIPMENT, FURNITURE, OTHERS.

- (A) NORTH ELEVATION
- (B) EAST ELEVATION
- (C) SOUTH ELEVATION
- (D) WEST ELEVATION

Public Works and Government Services Canada
Travaux publics et Services gouvernementaux Canada

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1 RM 103 - KITCHEN - ELEVATION
A344 1:20

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PORT WELLER
DEPARTMENT OF FISHERIES AND OCEANS
SEARCH AND RESCUE STATION
ST CATHARINES
**DEMOLITION, RENOVATION,
AND NEW CONSTRUCTION**

drawing title titre du dessin
**NEW MILLWORK DETAILS
NEW LIVING QUARTERS**

drawn by dessiné par **AK/KS**

designed by conçu par **Chu/KS**

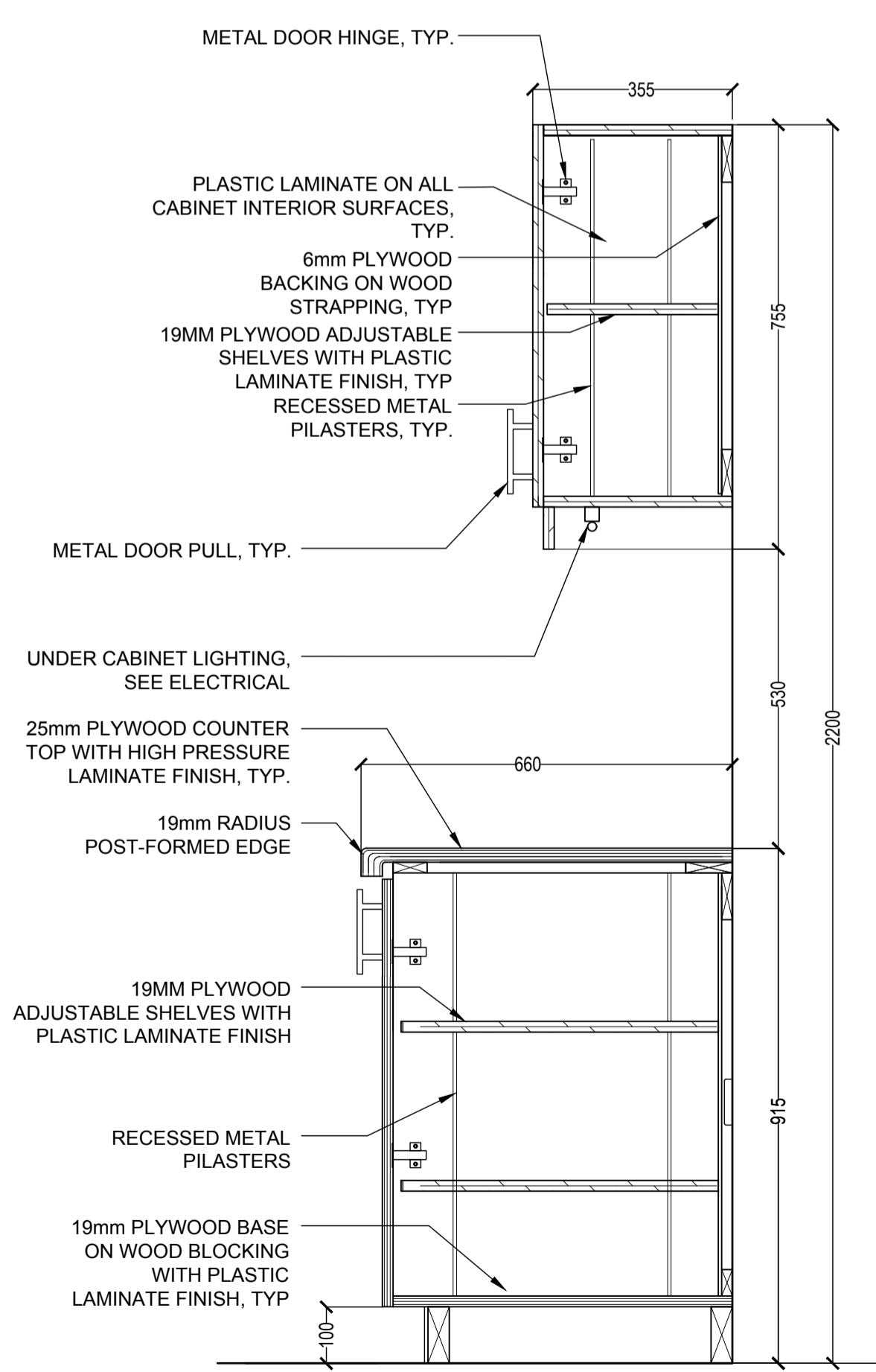
approved by approuvé par **JT**

bid offre **KG** project manager administrateur de projets

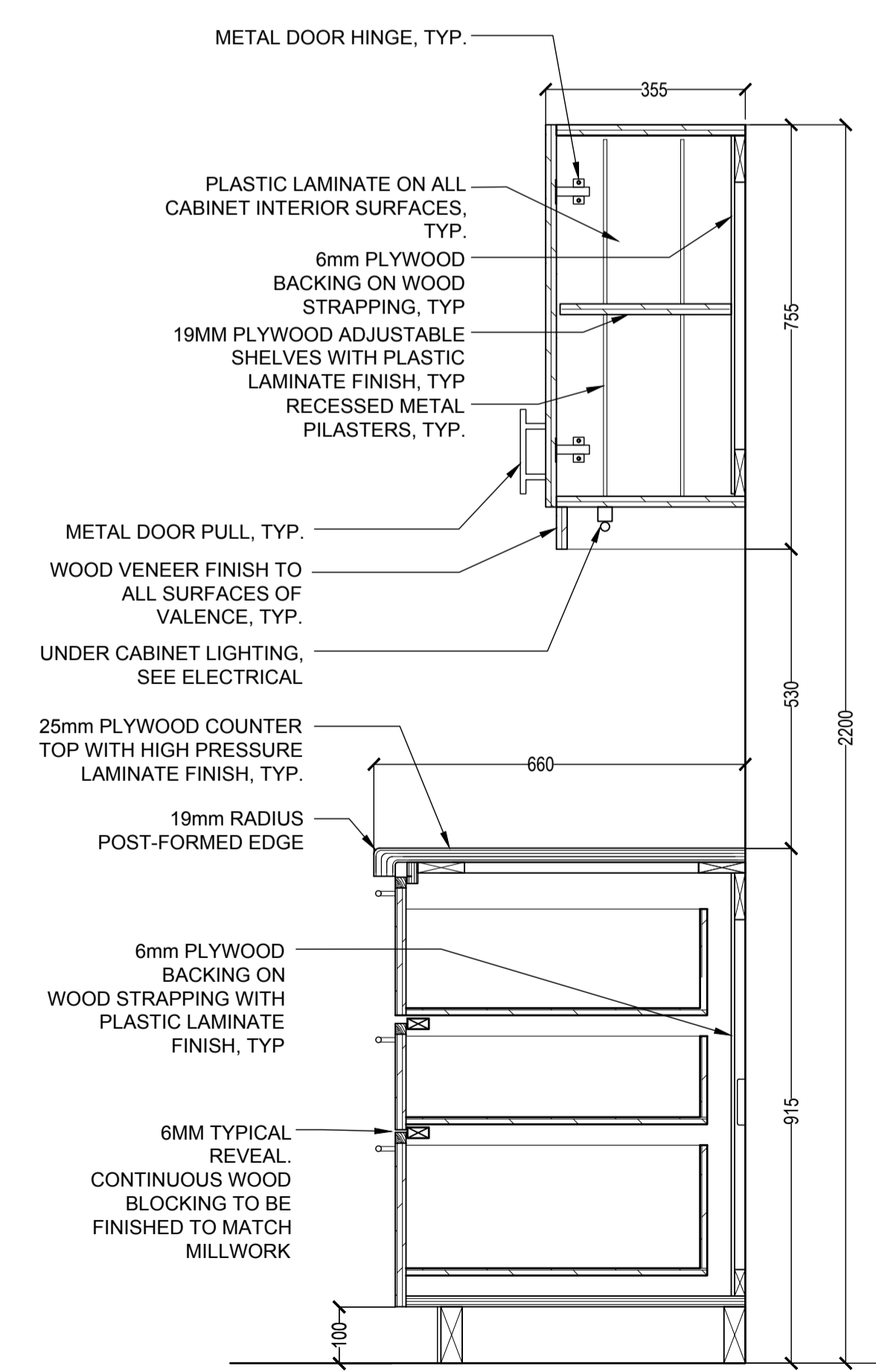
project date date du projet **2021.07.26**

project no. no. du projet **R.079827.001**

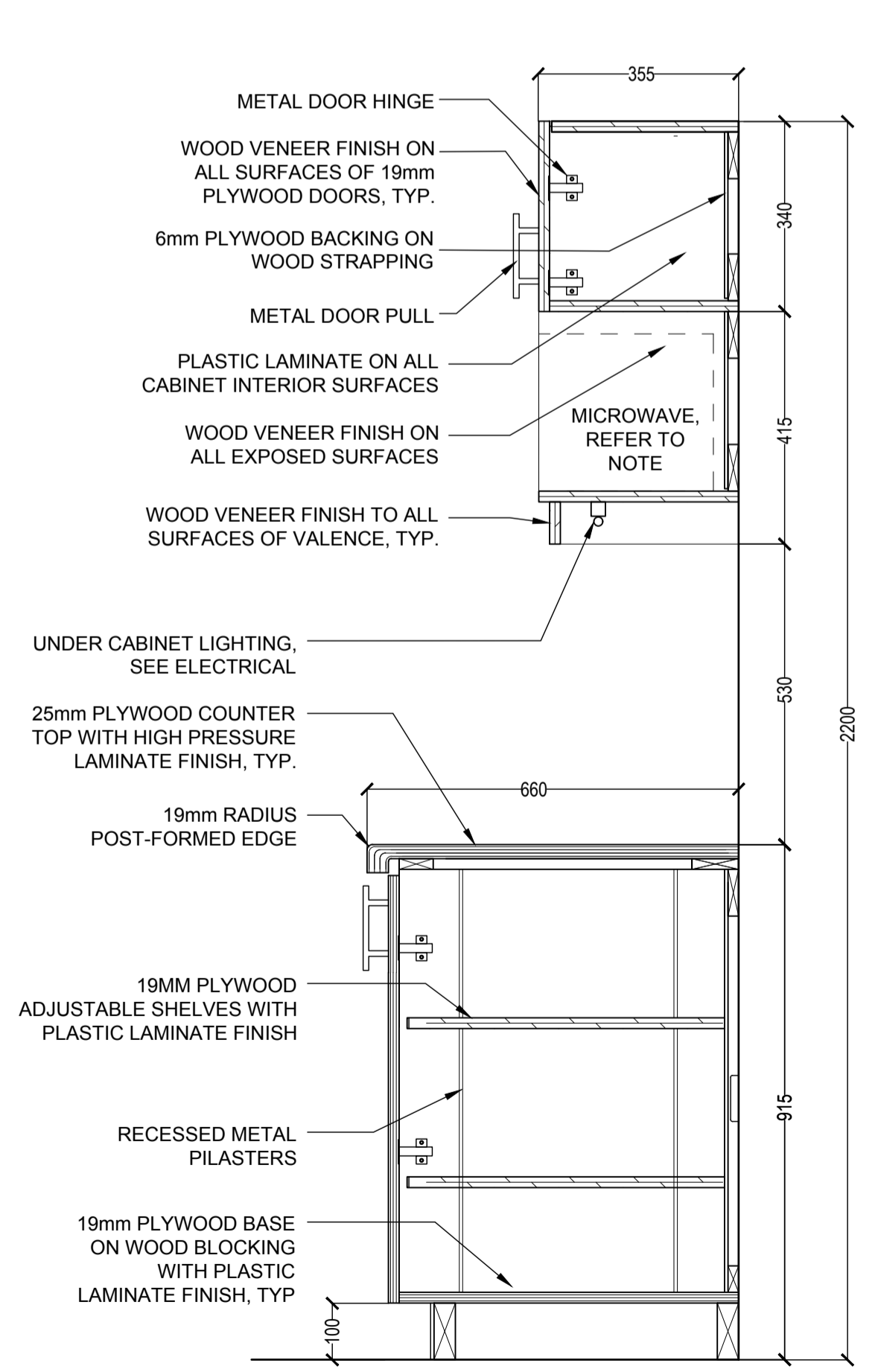
drawing no. dessiné no. **A344**



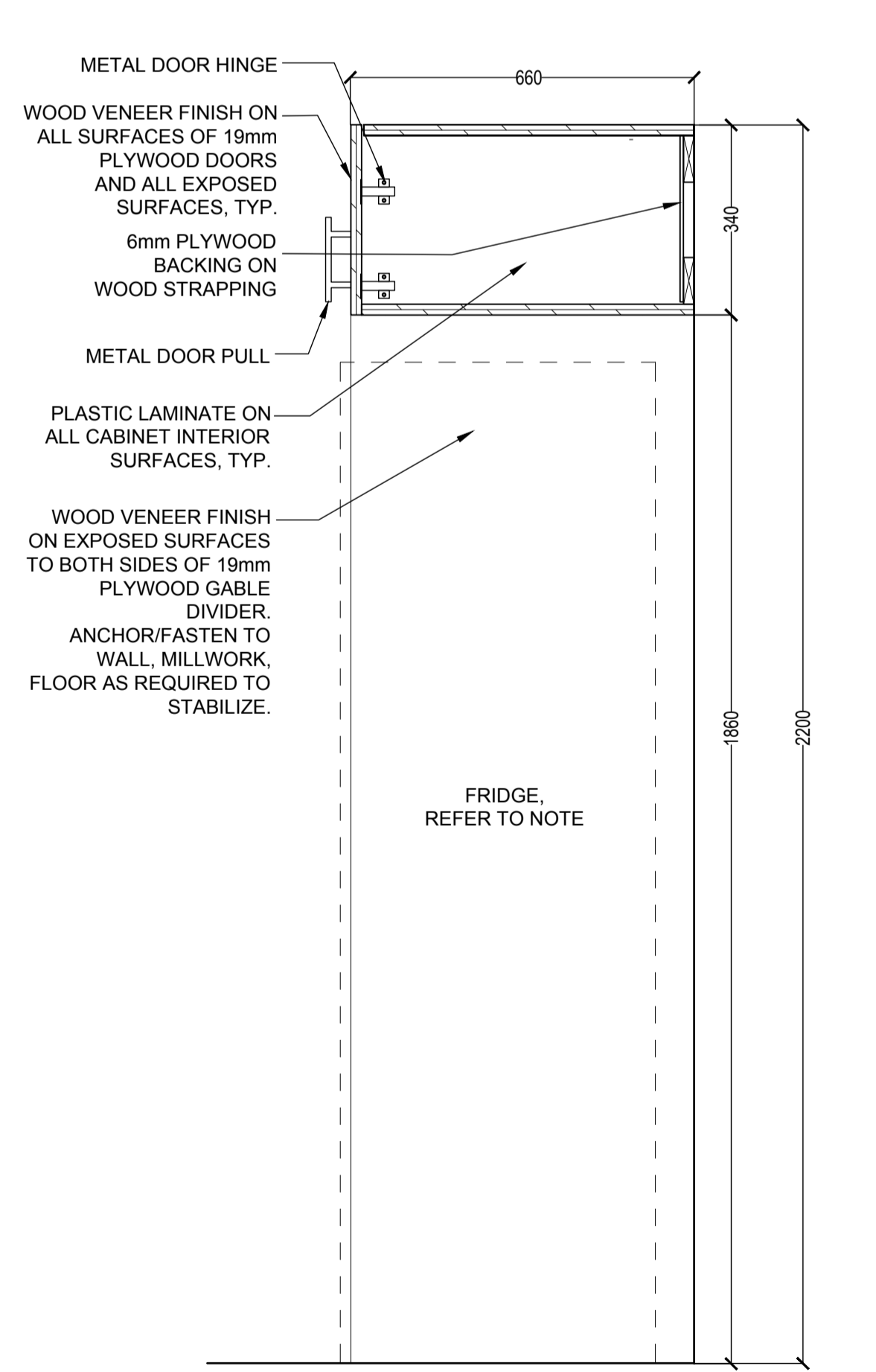
2 CABINET SECTION
A344 1:10



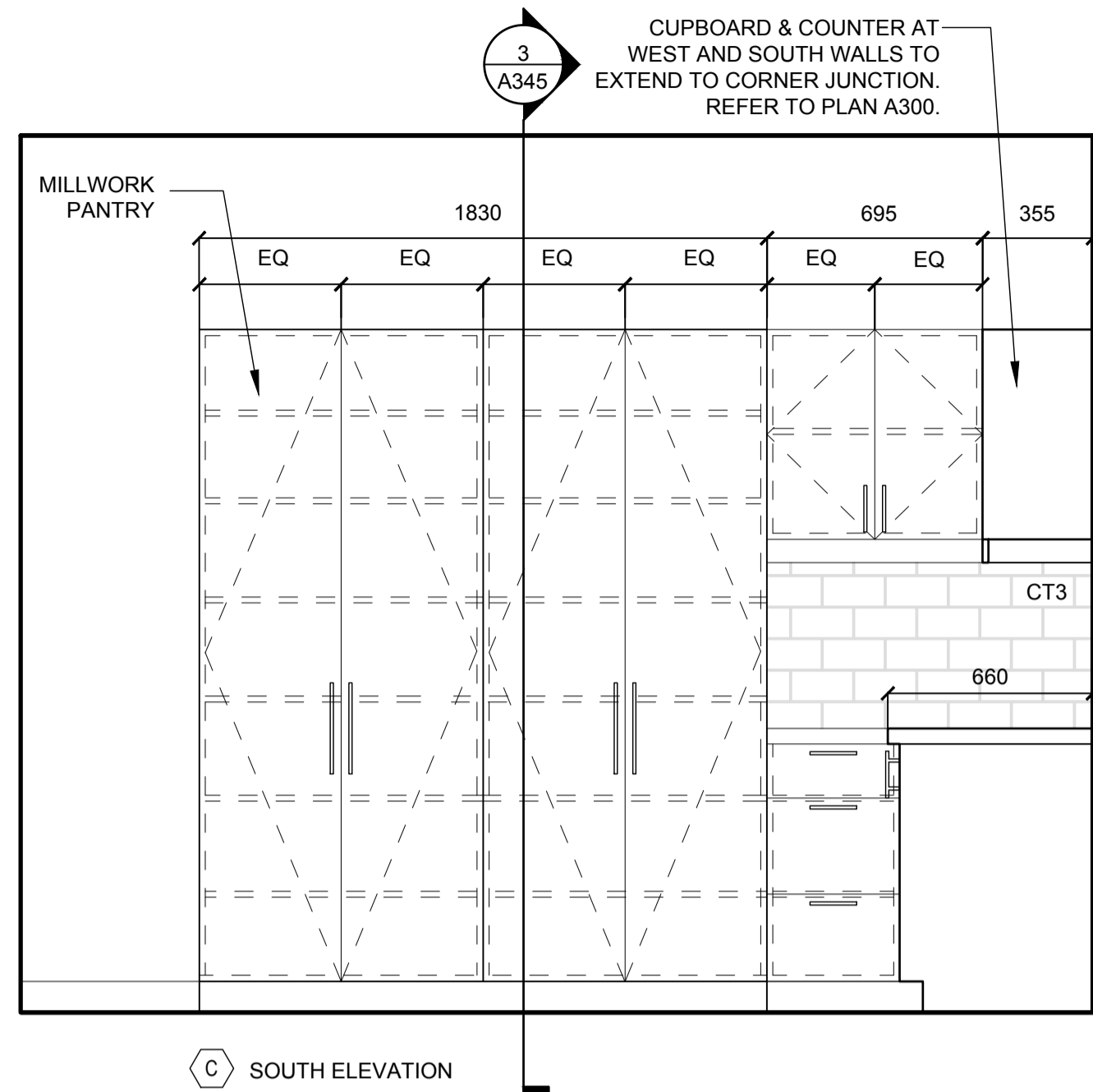
3 CABINET SECTION
A344 1:10



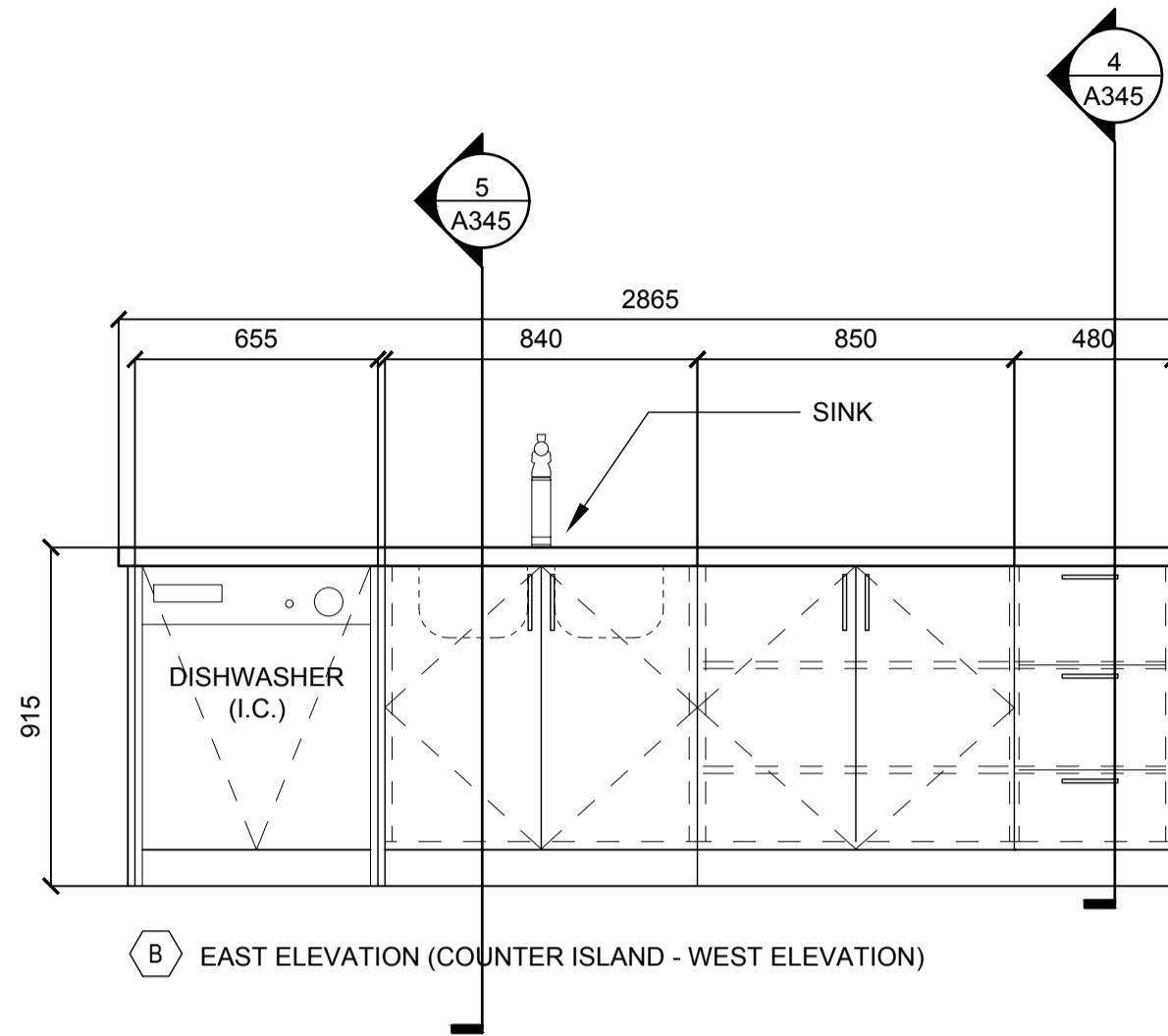
4 CABINET SECTION AT MICROWAVE SHELF
A344 1:10



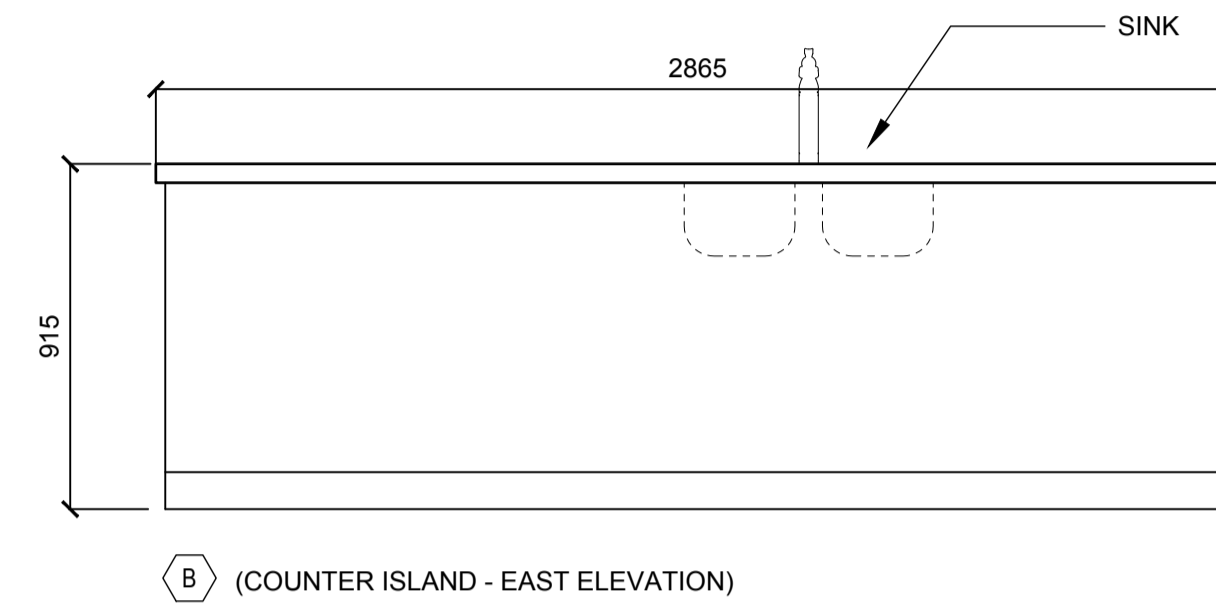
5 CABINET SECTION AT FRIDGE
A344 1:10



1 RM 103 - KITCHEN - ELEVATIONS
A345 1:20



2 RM 103 - KITCHEN COUNTER ISLAND - ELEVATIONS
A345 1:20



NOTE:

- WOOD VENEER FINISH ON ALL EXPOSED SURFACES, TYP.
- REFER TO A023 EQUIPMENT COORDINATION SCHEDULE FOR SUPPLY AND INSTALL SCOPE OF WORK FOR APPLIANCES, EQUIPMENT, FURNITURE, OTHERS.

- A NORTH ELEVATION
- B EAST ELEVATION
- C SOUTH ELEVATION
- D WEST ELEVATION

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project title
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PORT WELLER
DEPARTMENT OF FISHERIES AND OCEANS
SEARCH AND RESCUE STATION
ST CATHARINES
**DEMOLITION, RENOVATION,
AND NEW CONSTRUCTION**

drawing title
titre du dessin
**NEW MILLWORK DETAILS
NEW LIVING QUARTERS**

drawn by
dessiné par AK/KS

designed by
conçu par CHu/KS

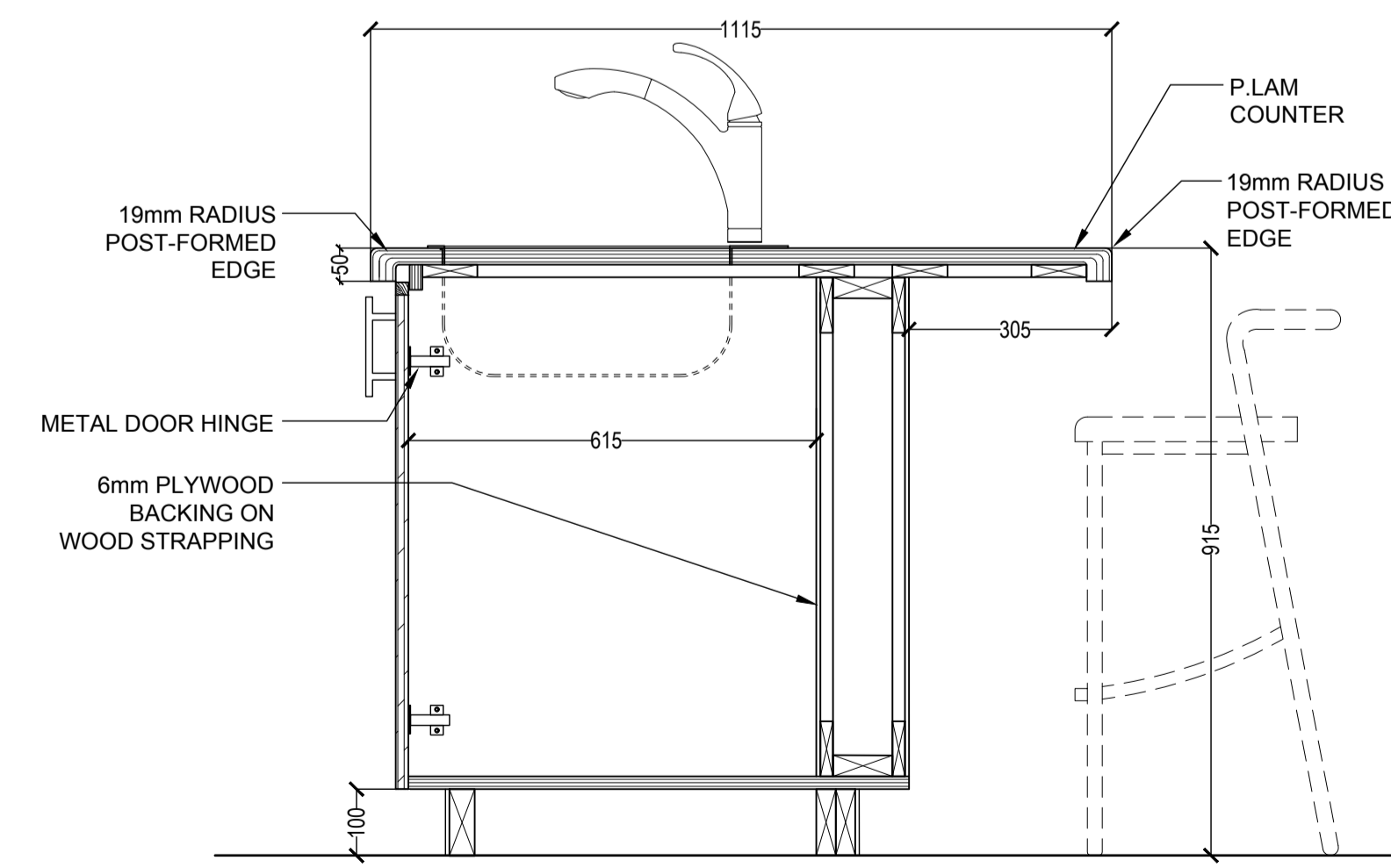
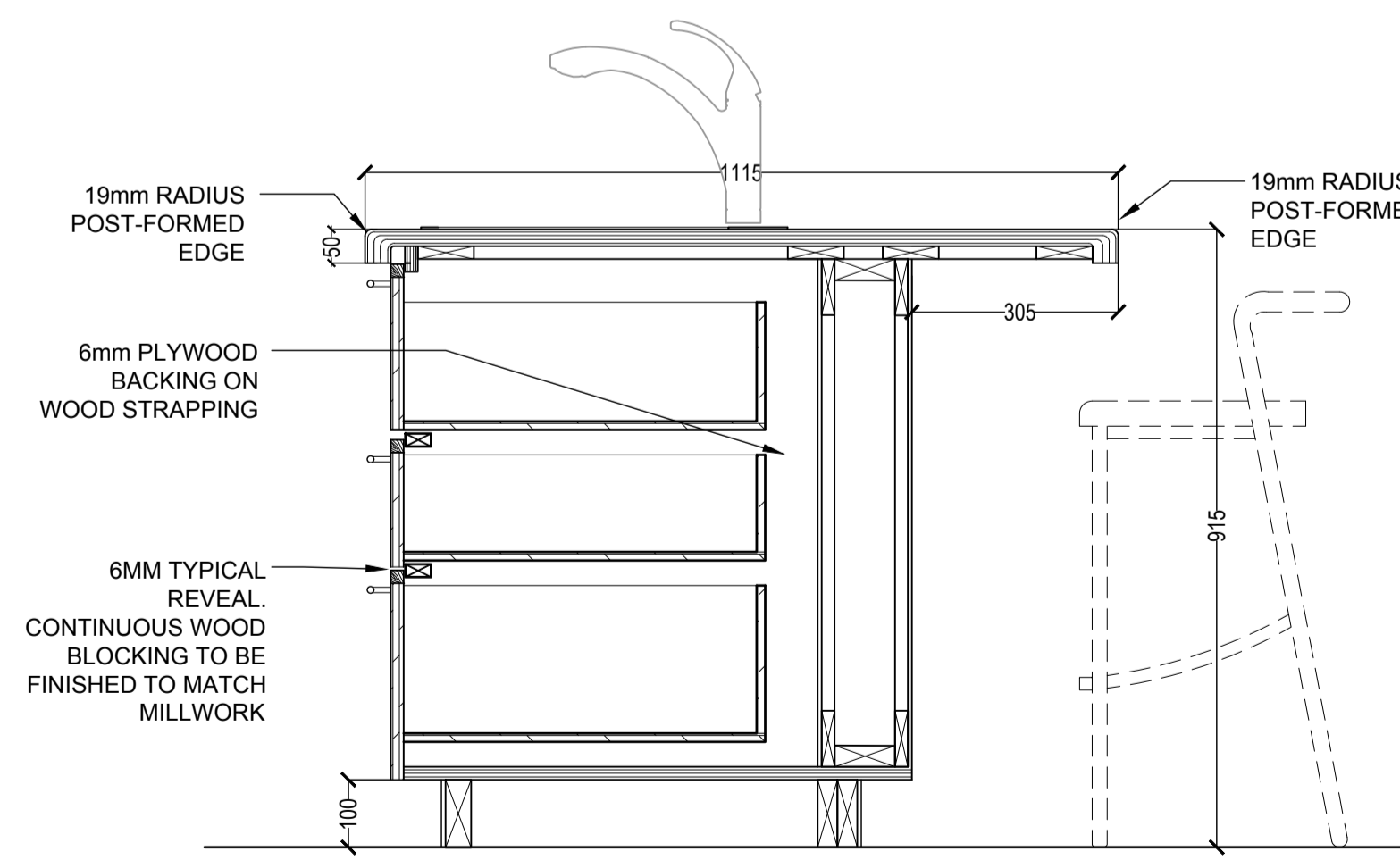
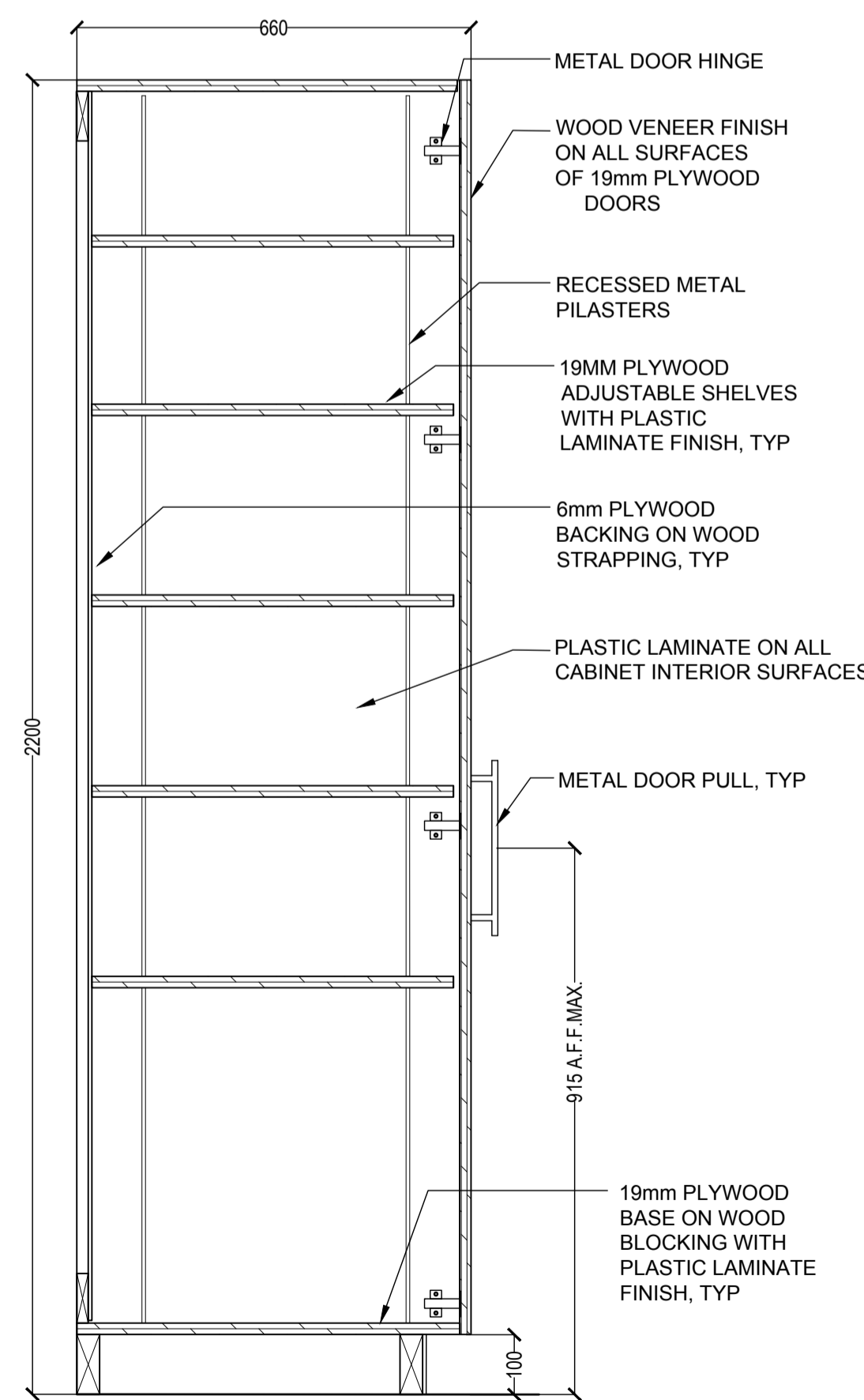
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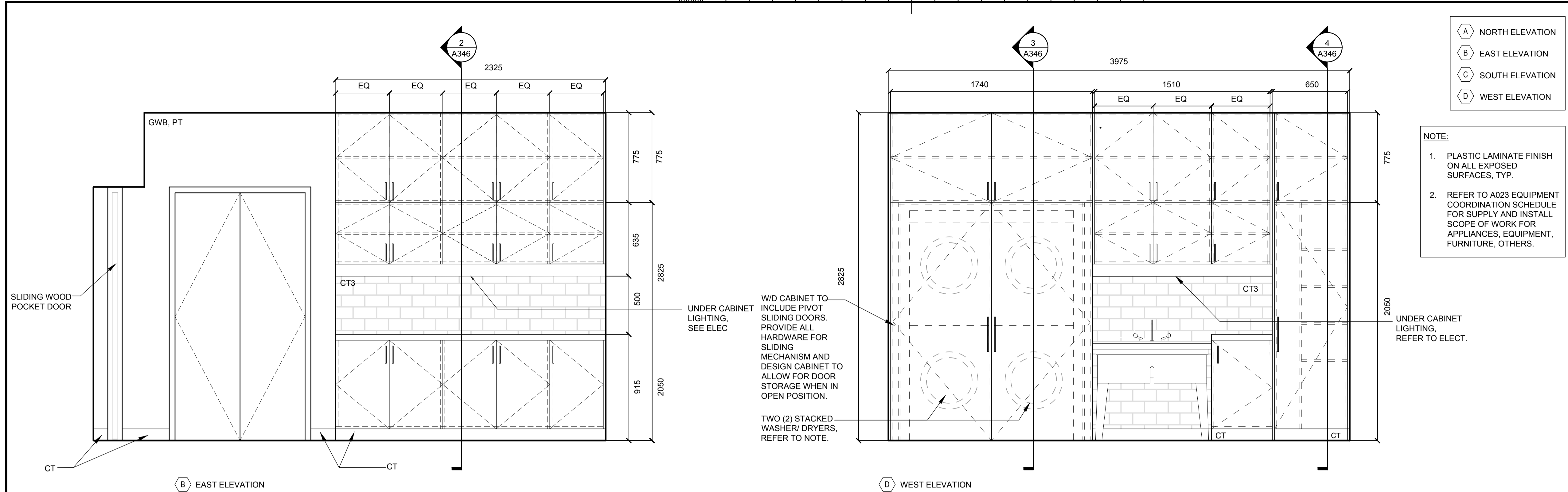
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project date
date du projet 2021.07.26

project no.
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drawing no.
dessiné no. A345





- A NORTH ELEVATION
- B EAST ELEVATION
- C SOUTH ELEVATION
- D WEST ELEVATION

NOTE:

1. PLASTIC LAMINATE FINISH ON ALL EXPOSED SURFACES, TYP.
2. REFER TO A023 EQUIPMENT COORDINATION SCHEDULE FOR SUPPLY AND INSTALL SCOPE OF WORK FOR APPLIANCES, EQUIPMENT, FURNITURE, OTHERS.

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ST CATHARINES
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AND NEW CONSTRUCTION**

drawing title
titre du dessin
**NEW MILLWORK DETAILS
NEW LIVING QUARTERS**

drawn by
dessiné par AK/KS

designed by
conçu par KS

approved by
approuvé par JT

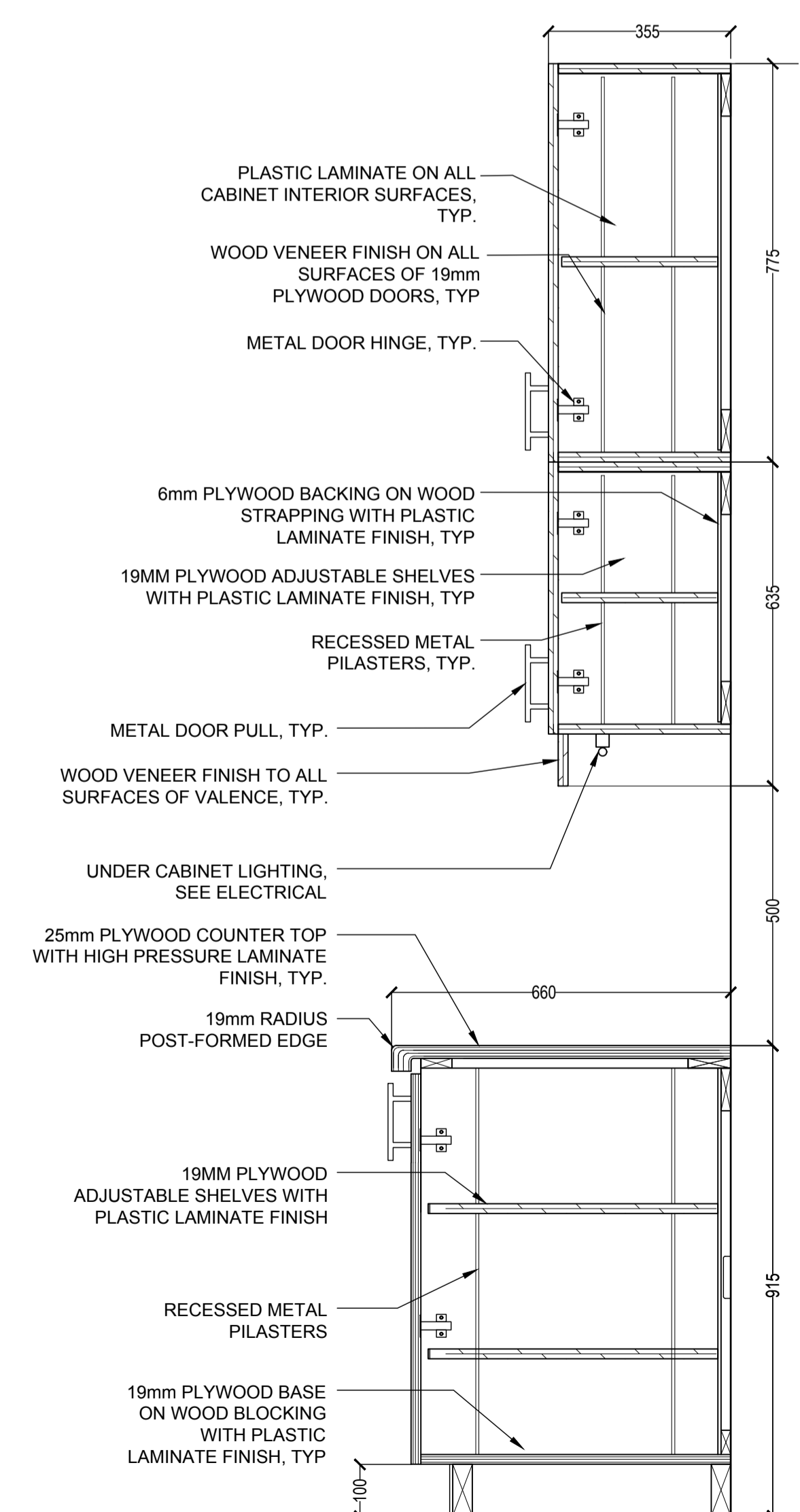
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offre KG project manager
administrateur de projets

project date
date du projet 2021.07.26

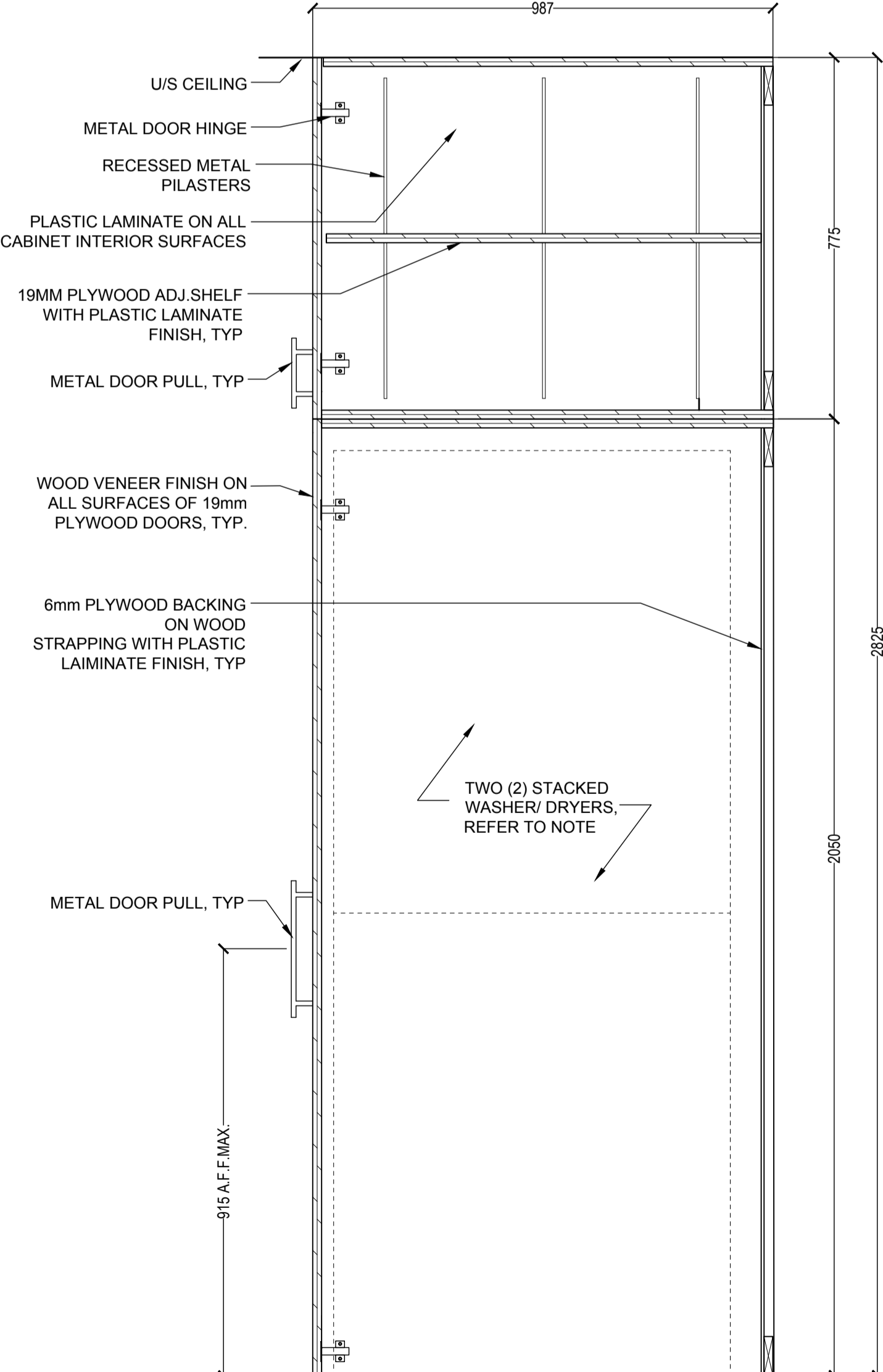
project no.
no. du projet **R.079827.001**

drawing no.
dessiné no. **A346**

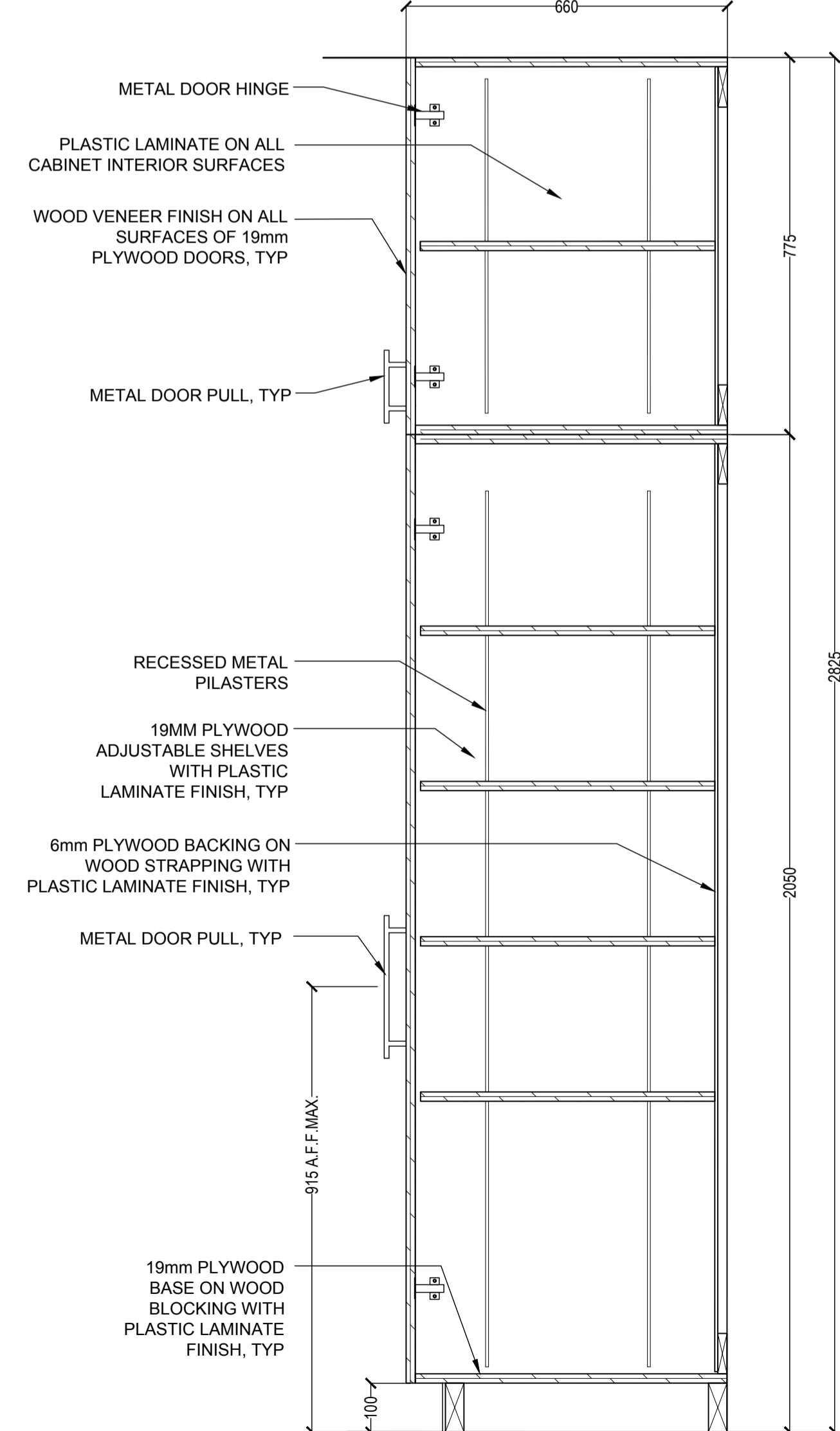
1 RM 116 - LAUNDRY - ELEVATIONS
A346 1:20



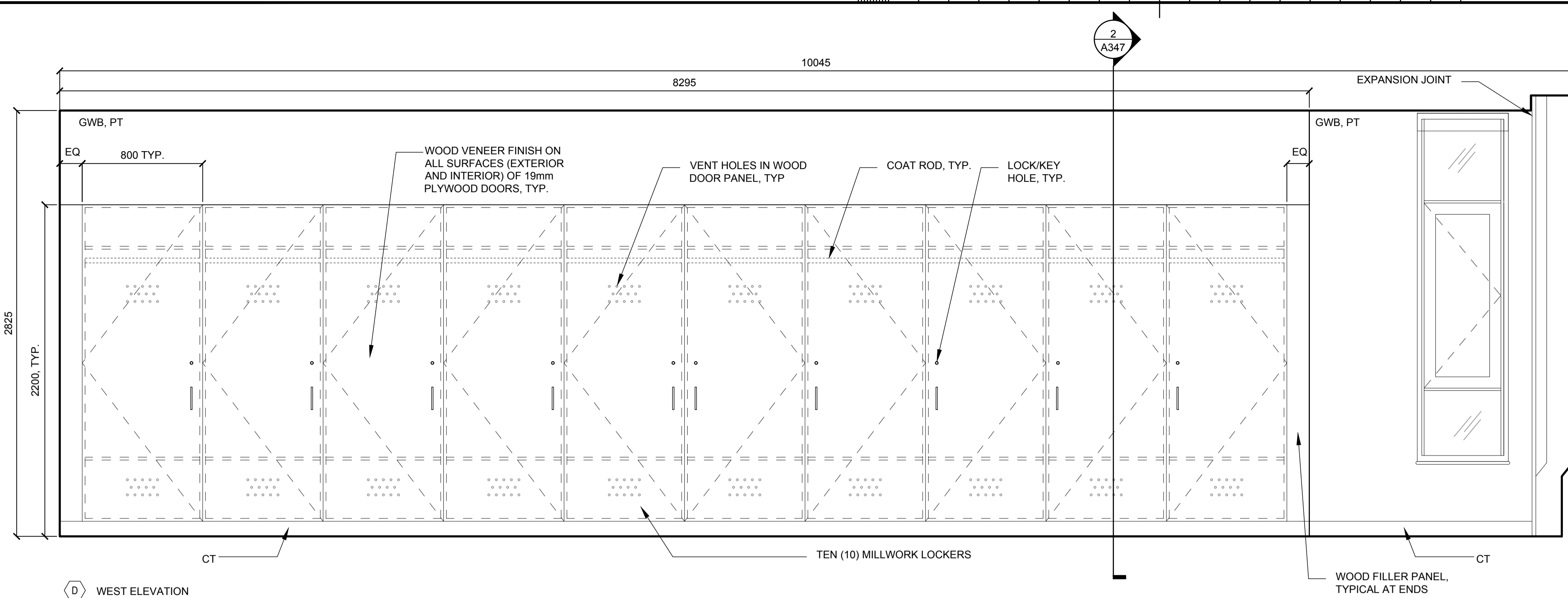
2 CABINET SECTION
A346 1:10



3 W/D CLOSET SECTION
A346 1:10

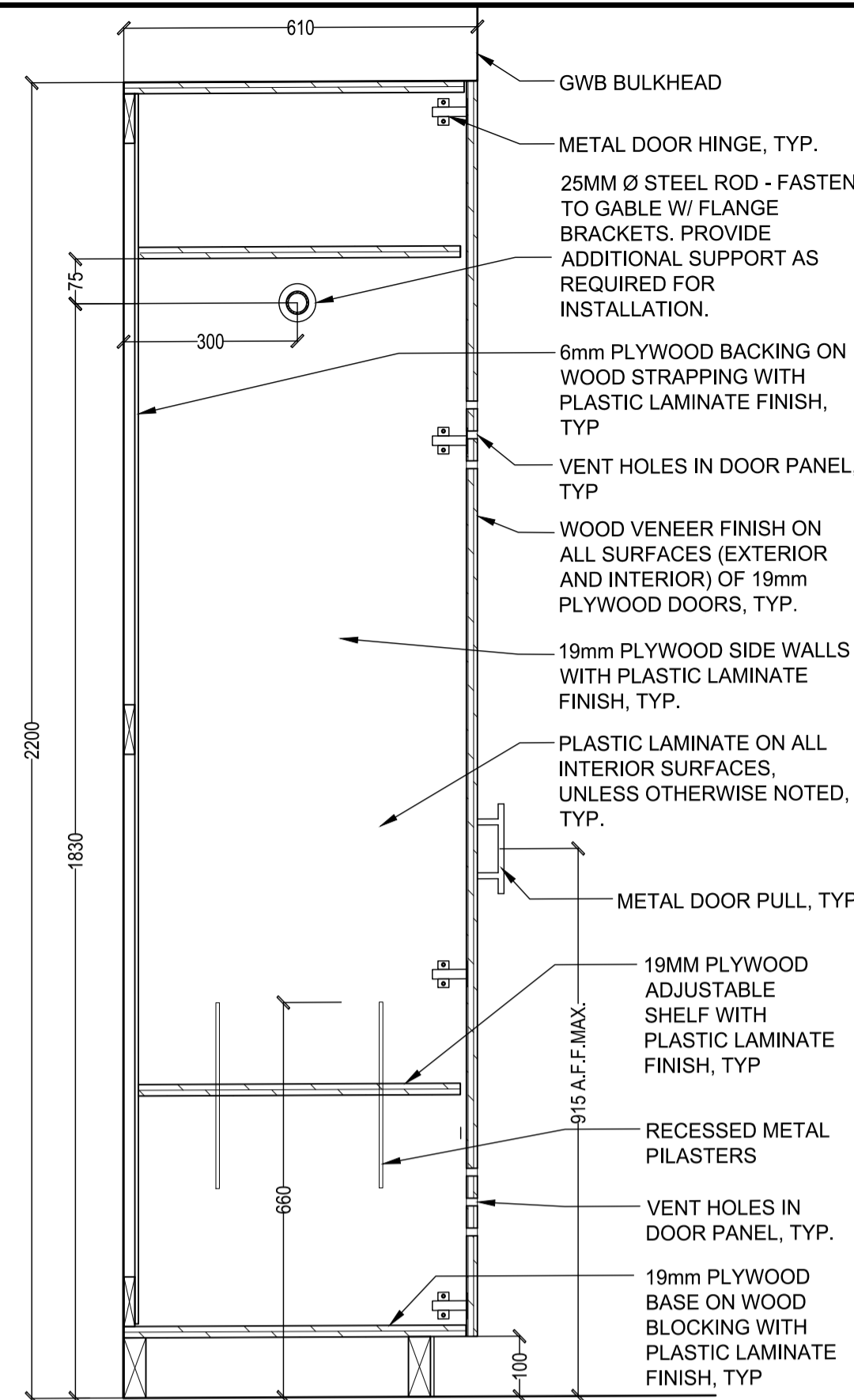


4 STORAGE CLOSET SECTION
A346 1:10

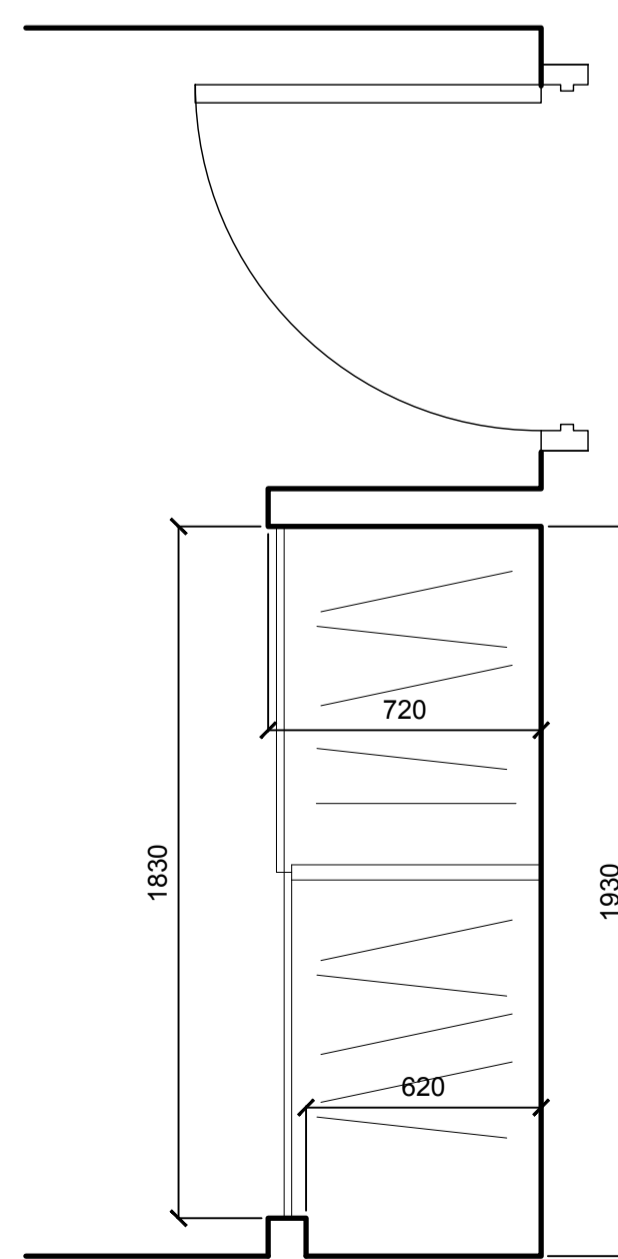


D WEST ELEVATION

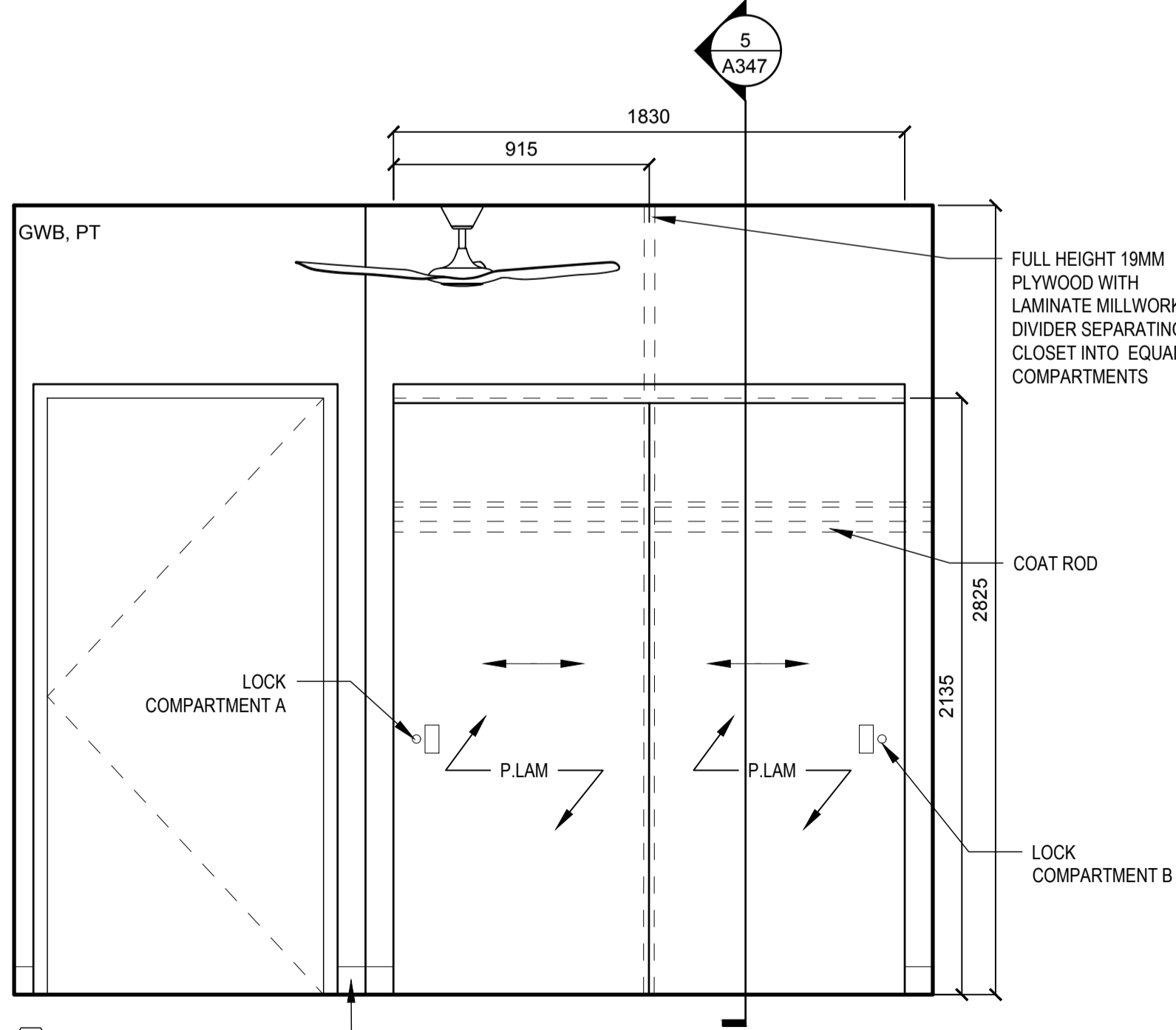
1 RM 105 - READY ROOM LOCKER ELEVATION
A347 1:20



2 LOCKER SECTION
A347 1:10

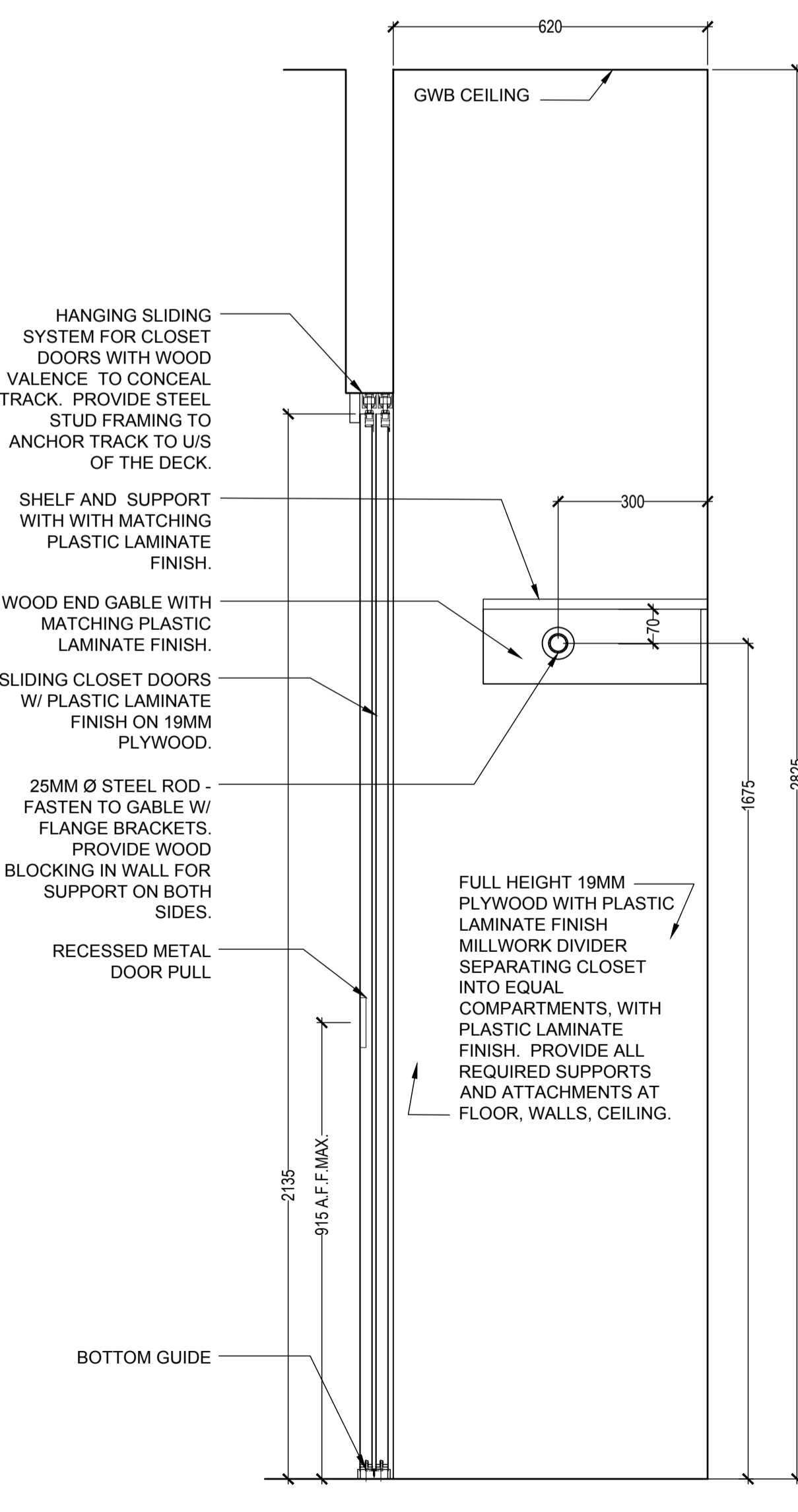


3 BEDROOM CLOSET, TYP. - PLAN
A347 1:20



A NORTH ELEVATION RB

4 BEDROOM CLOSET, TYP - ELEVATION
A347 1:20



5 BEDROOM CLOSET SECTION
A347 1:10

NOTE:
 1. LOCKERS: WOOD VENEER FINISH ON ALL EXPOSED SURFACES, TYP.
 2. SLIDING CLOSET DOORS: PLASTIC LAMINATE FINISH ON ALL EXPOSED SURFACES, TYP.

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 ST CATHARINES
**DEMOLITION, RENOVATION,
 AND NEW CONSTRUCTION**

drawing title
 titre du dessin
**NEW MILLWORK DETAILS
 NEW LIVING QUARTERS**

drawn by
 dessiné par AK/KS

designed by
 conc par CHu/KS

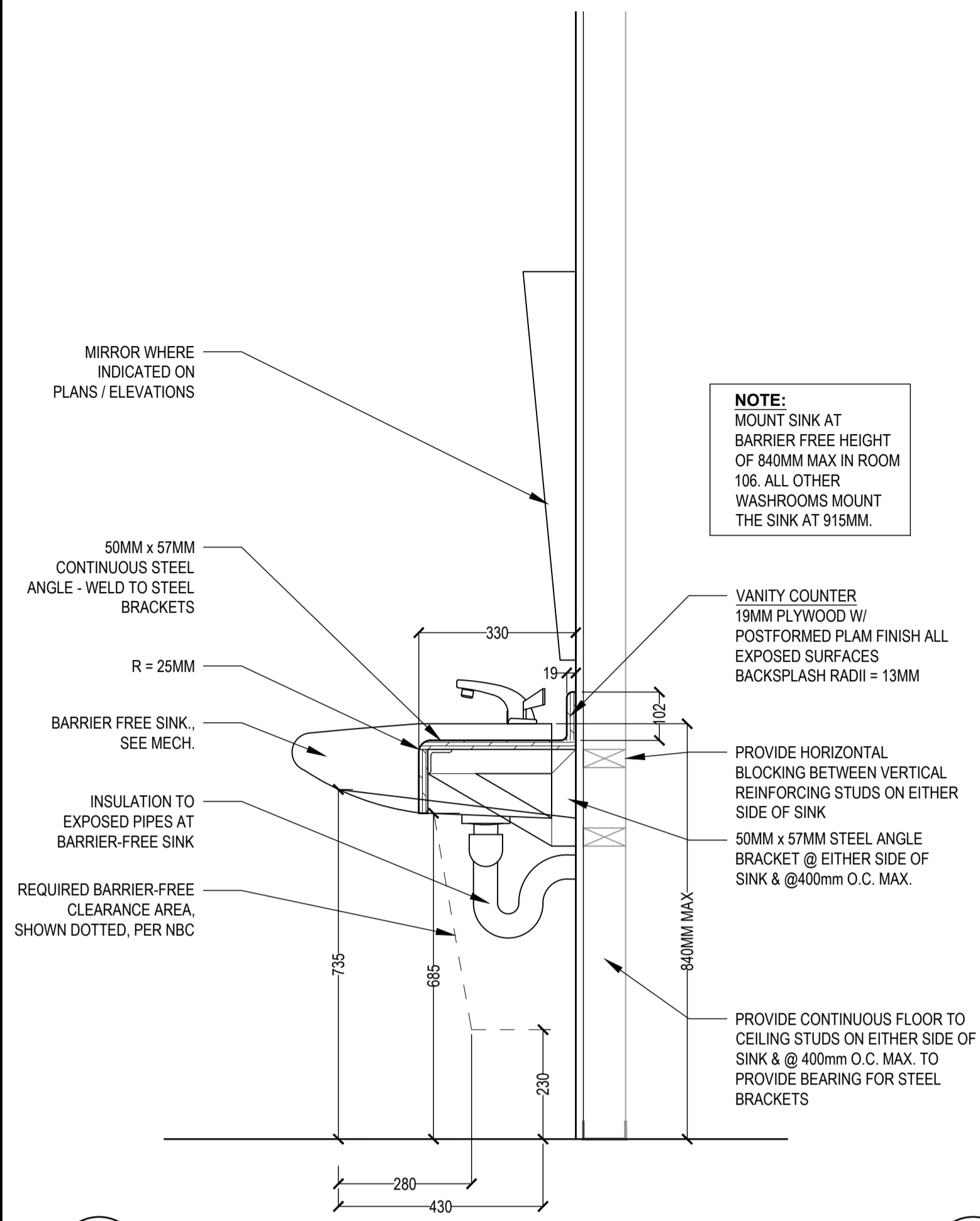
approved by
 approuvé par JT

bid offre KG project manager administrateur de projets

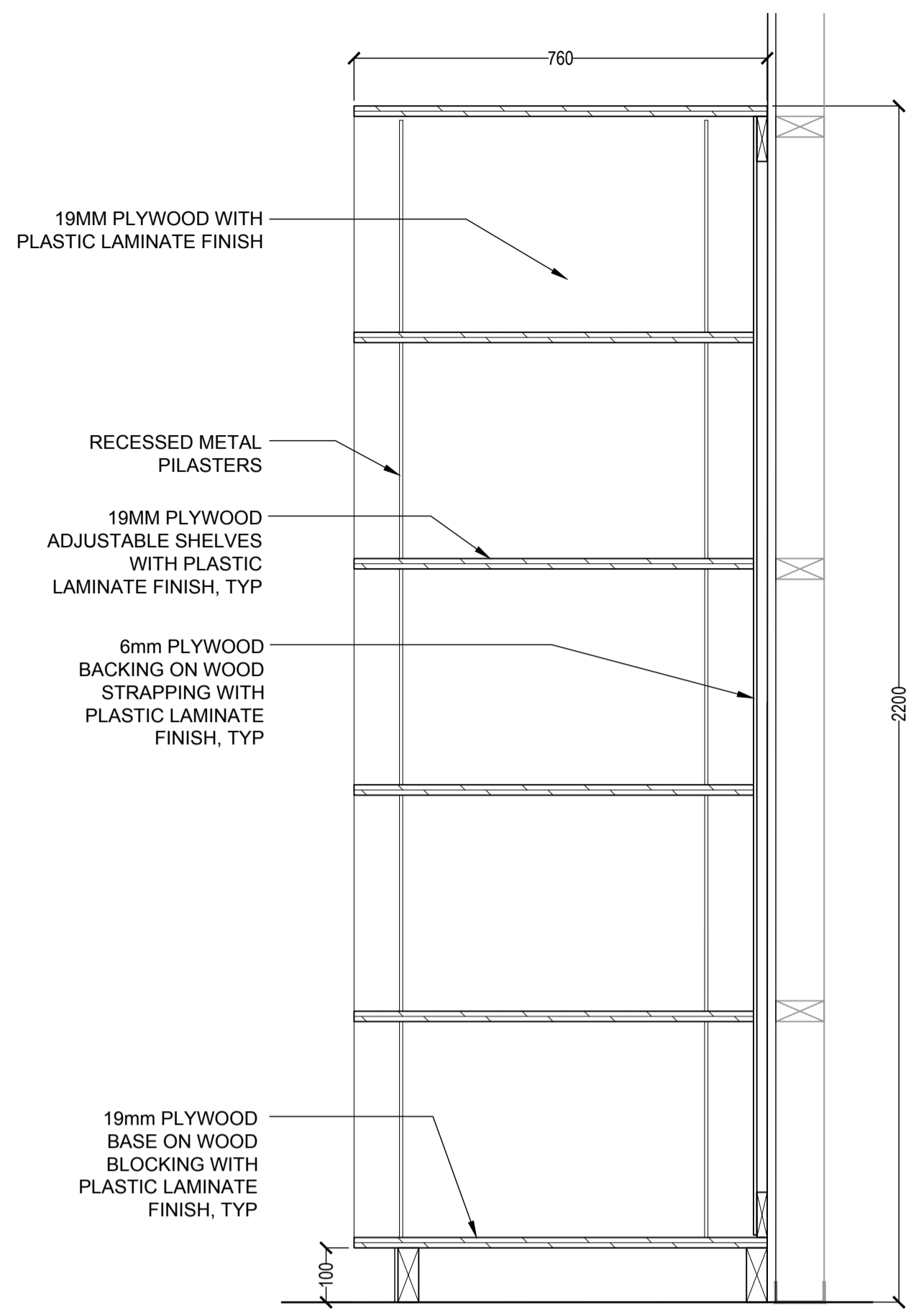
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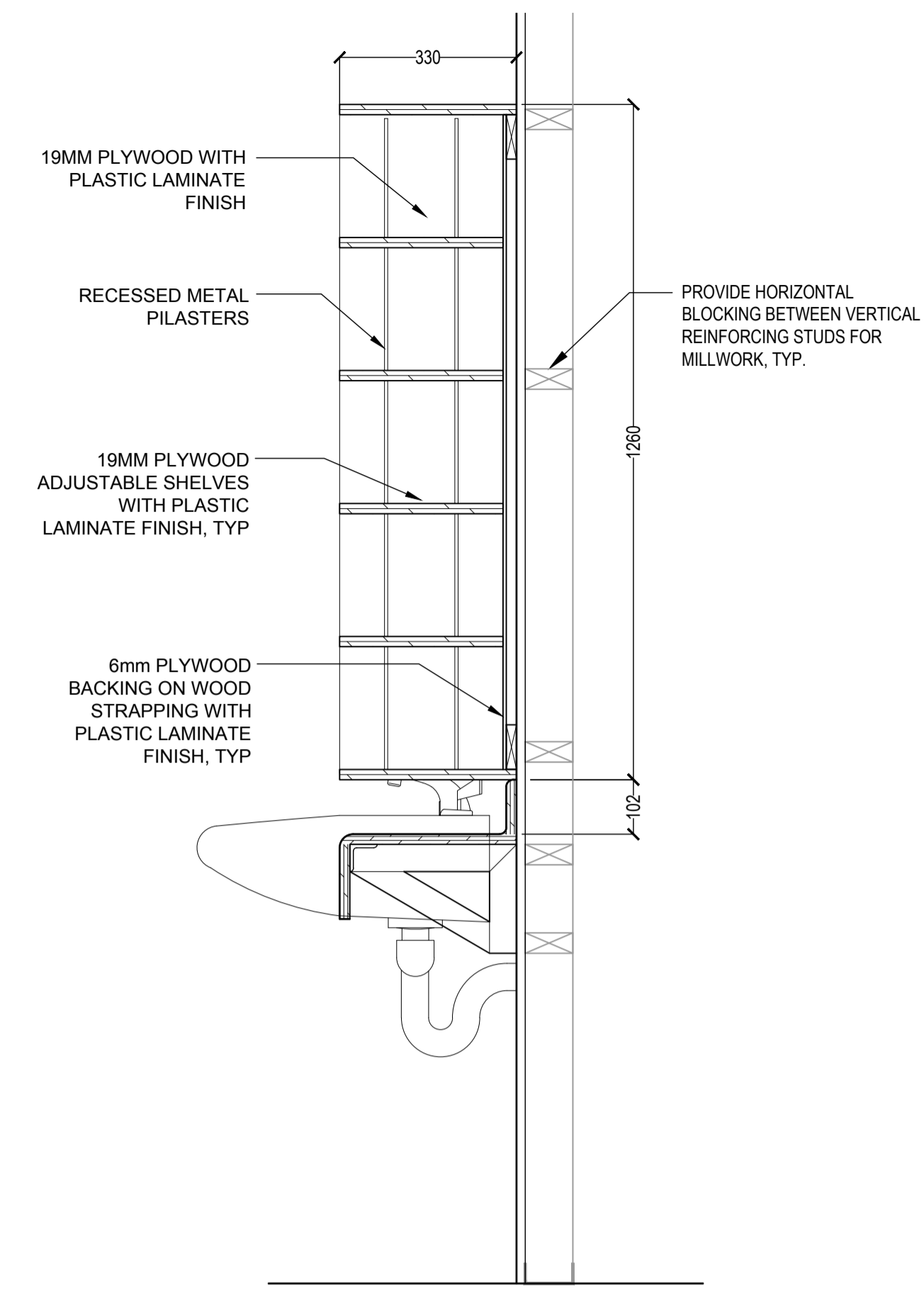
drawing no.
 dessiné no. A347



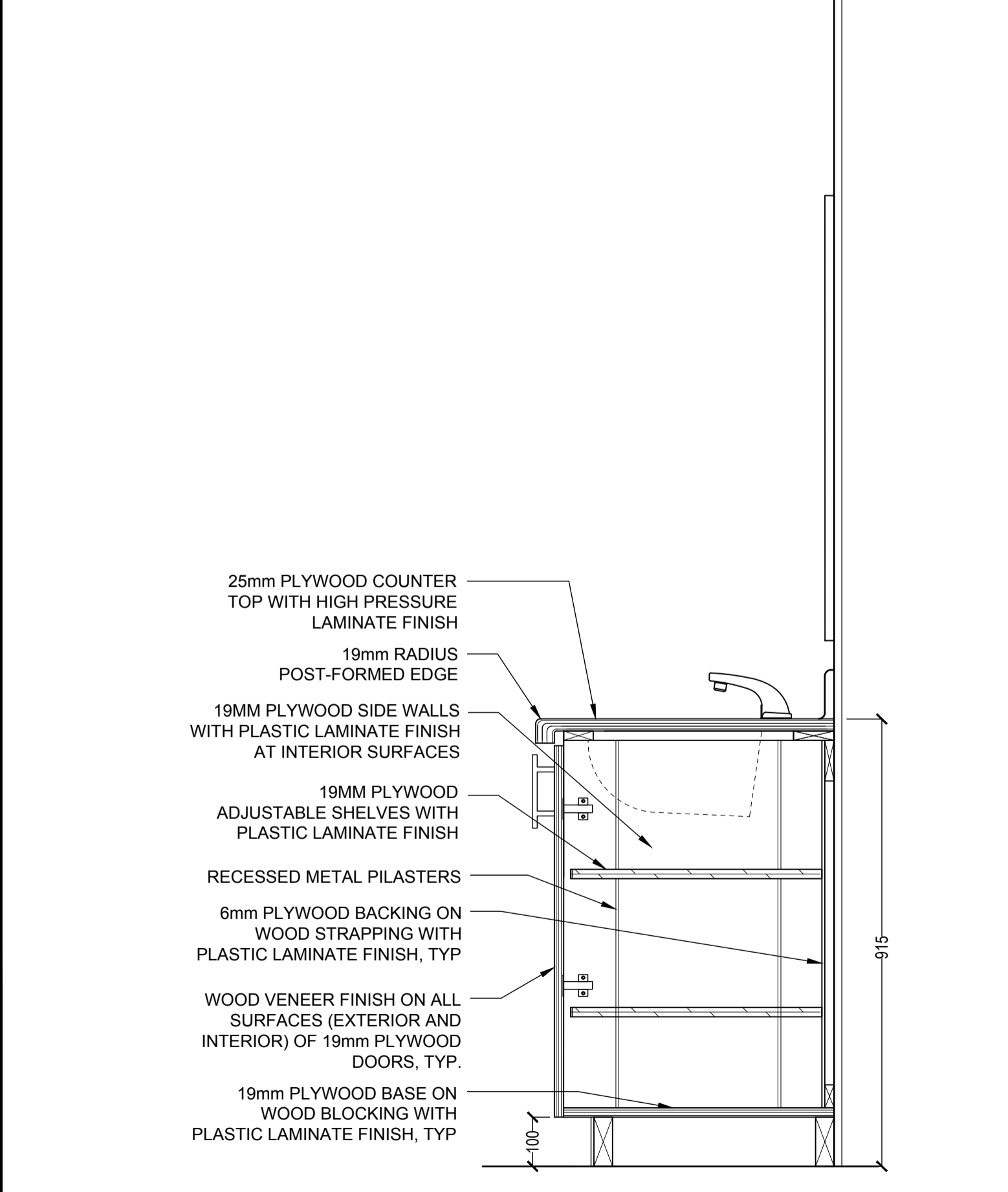
1 DETAIL SECTION AT BARRIER-FREE SINK
A348 1:10



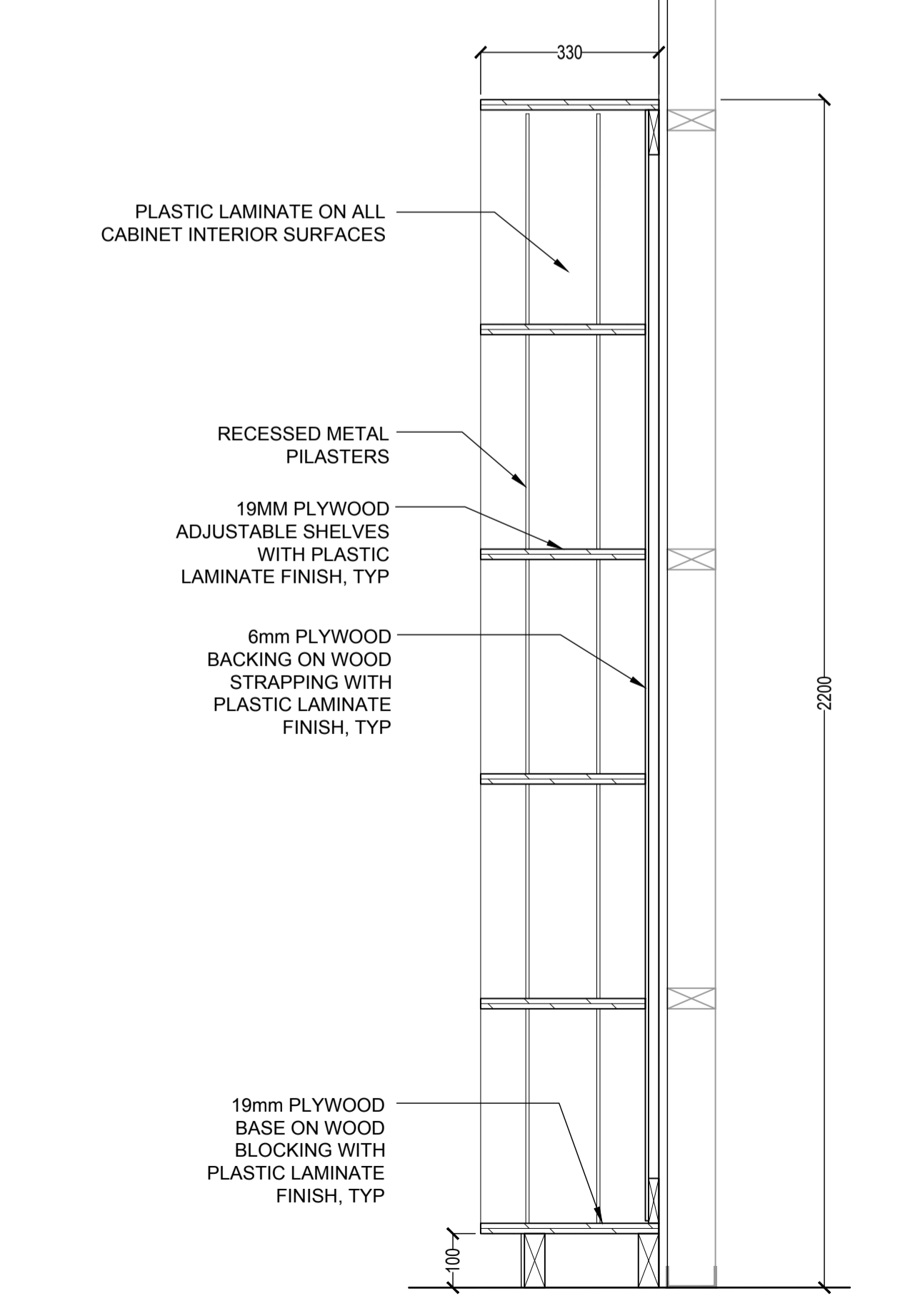
2 DETAIL SECTION OF BUILT-IN SHELVING, B/F WASHROOM 106
A348 1:10



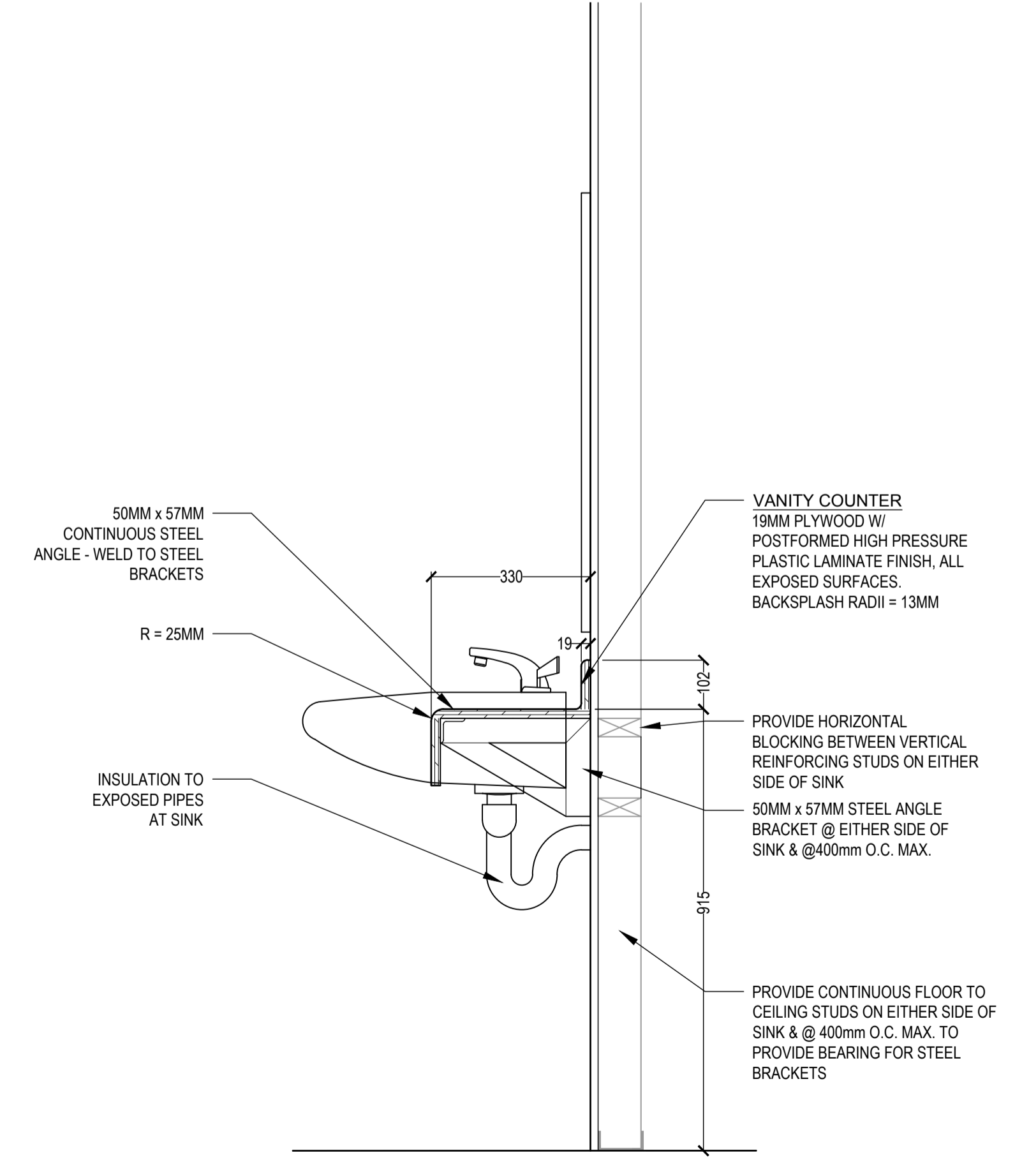
3 DETAIL SECTION AT BUILT-IN SHELVING ABOVE SINK, B/F WR 106
A348 1:10



4 DETAIL SECTION AT SINK COUNTER, WASHROOM 107
A348 1:10



5 DETAIL SECTION AT BUILT-IN SHELVING, WASHROOM 107
A348 1:10



6 DETAIL SECTION AT SINK COUNTER, WASHROOM 204
A348 1:10

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ST CATHARINES
DEMOLITION, RENOVATION,
AND NEW CONSTRUCTION

drawing title
titre du dessin
NEW WASHROOM MILLWORK
DETAILS
NEW LIVING QUARTERS, NEW OFFICE

drawn by
dessiné par AK/KS

designed by
conçu par CHU/KS

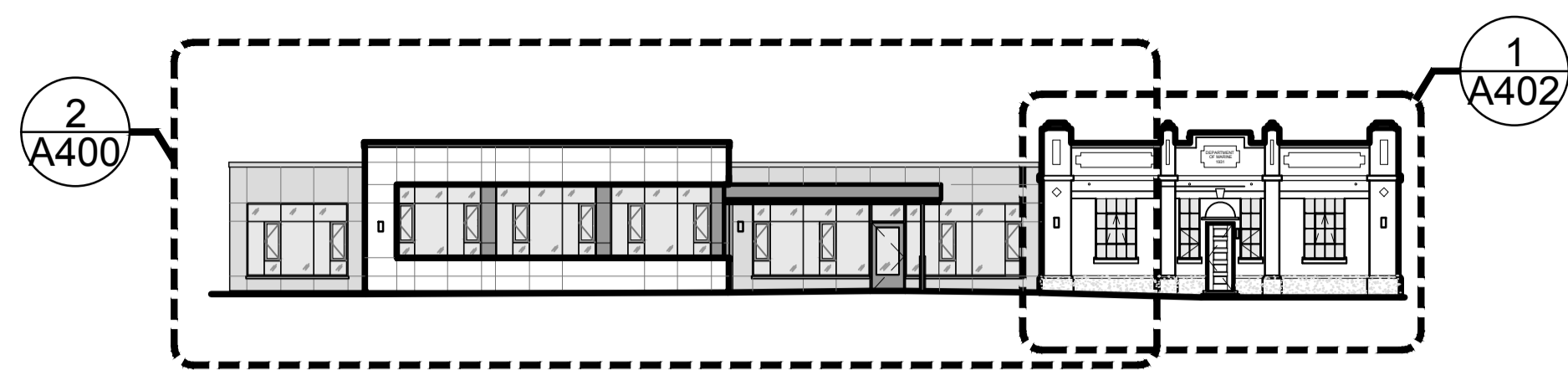
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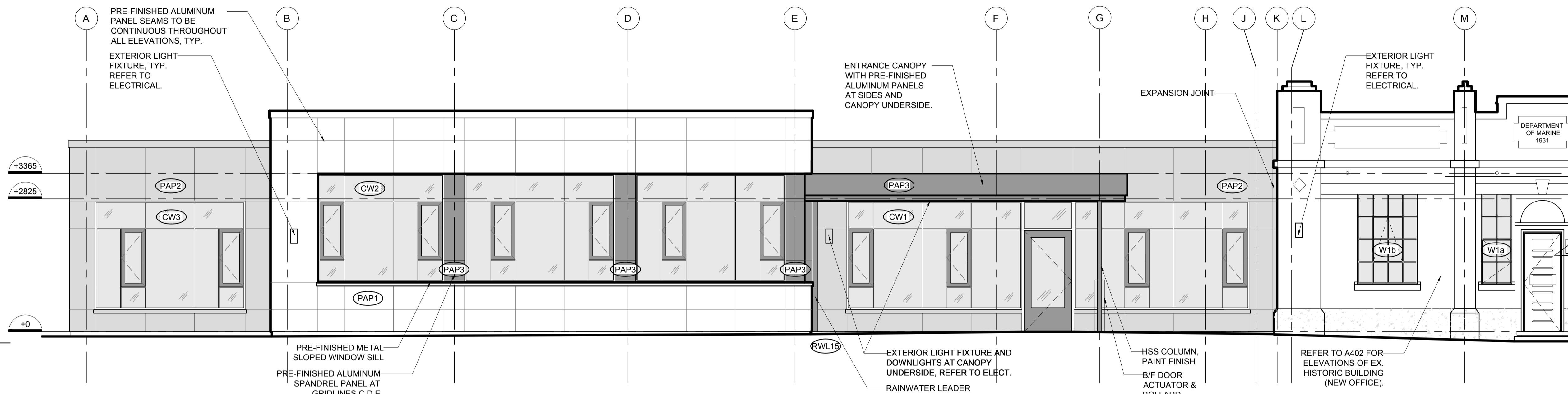
project no.
no. du projet R.079827.001

drawing no.
dessiné no. A348



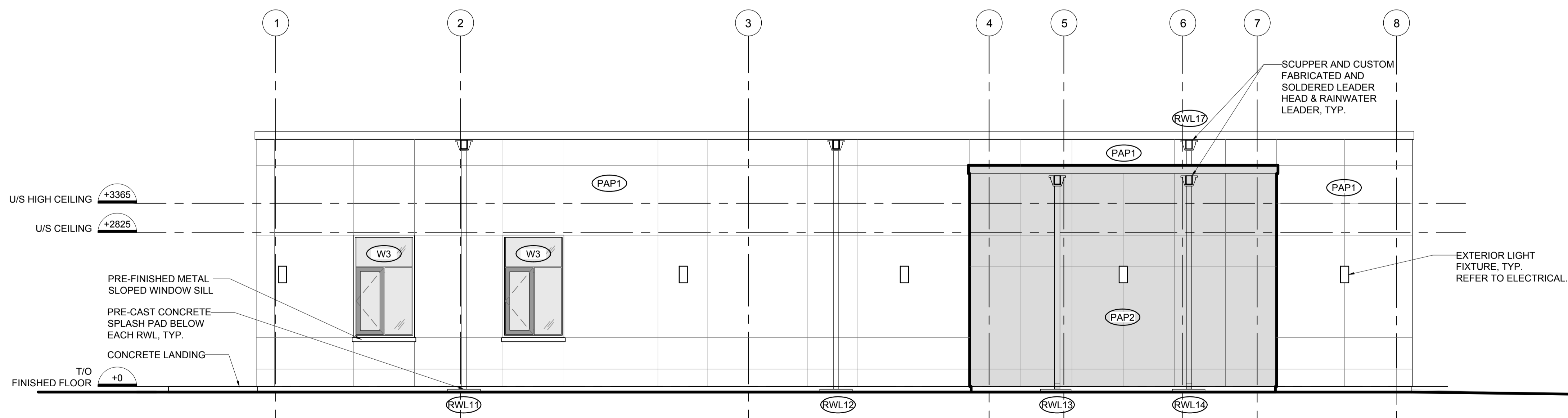
1 KEY EAST ELEVATION - NEW LIVING QUARTERS & OFFICE (HISTORIC BUILDING)

1:200



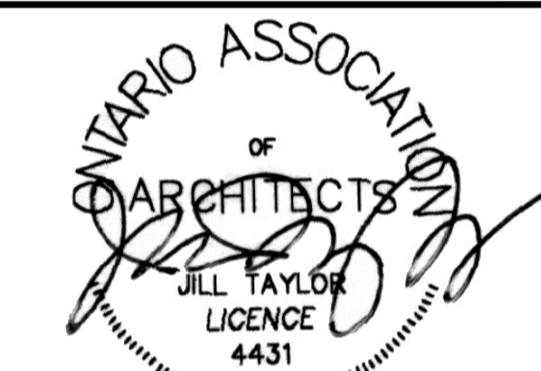
2 EAST ELEVATION - NEW LIVING QUARTERS & PARTIAL OFFICE (HISTORIC BUILDING)

1:50



3 SOUTH ELEVATION - NEW LIVING QUARTERS

1:50



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**DEMOLITION, RENOVATION,
AND NEW CONSTRUCTION**

drawing title
titre du dessin
**NEW ELEVATIONS
NEW LIVING QUARTERS &
NEW OFFICE (HISTORIC BUILDING)**

drawn by / dessiné par AK/KS

designed by / conçu par CHu/KS

approved by / approuvé par JT

bid / offre KG project manager / administrateur de projets

project date / date du projet 2021.07.26

project no. / no. du projet R.079827.001

drawing no. / dessiné no. A400

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AND NEW CONSTRUCTION**

drawing title
titre du dessin
**NEW ELEVATIONS
NEW LIVING QUARTERS**

drawn by
dessiné par **AK/KS**

designed by
conçu par **Chu/KS**

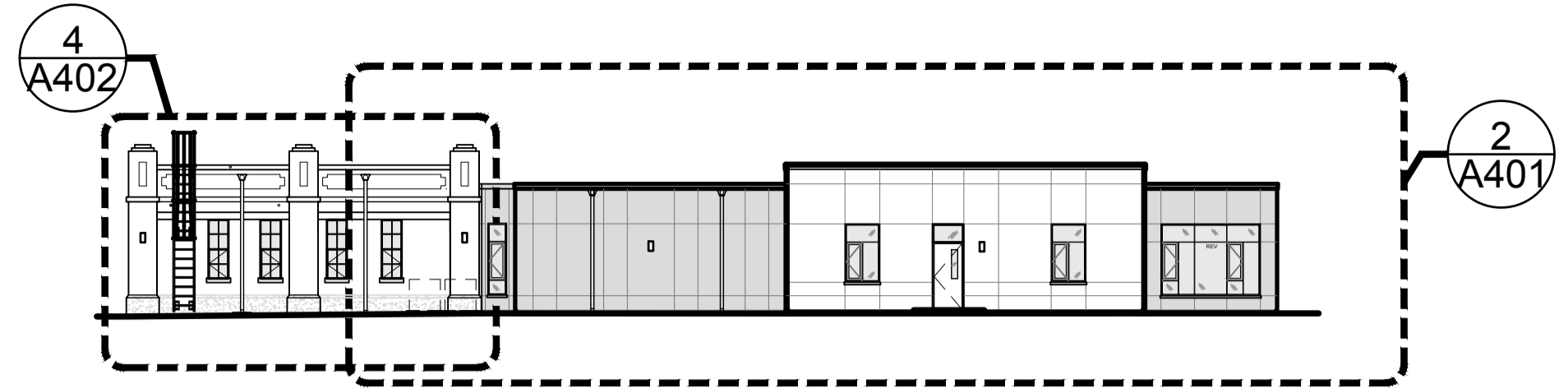
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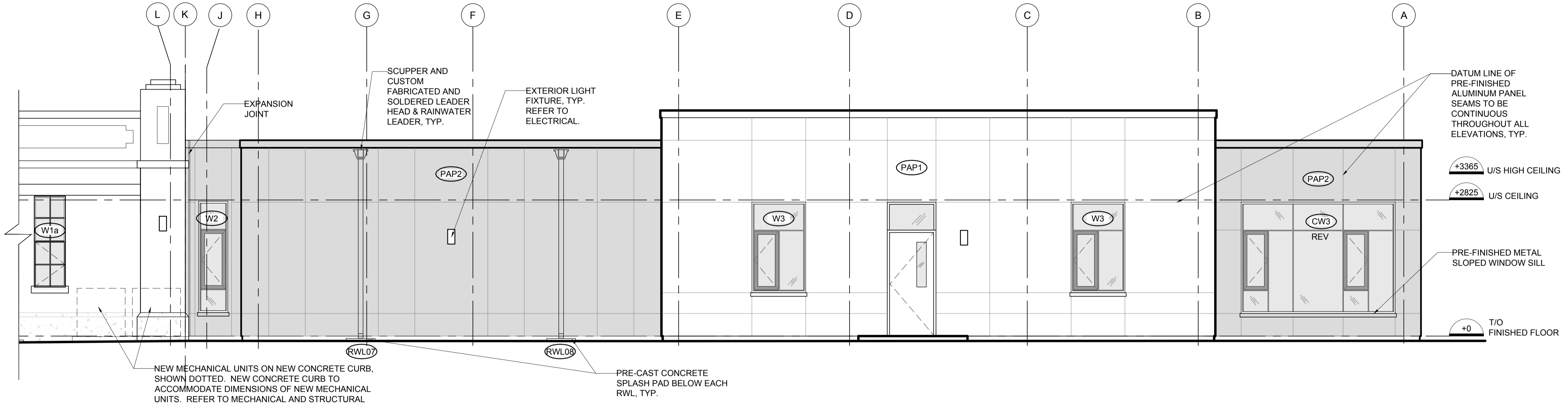
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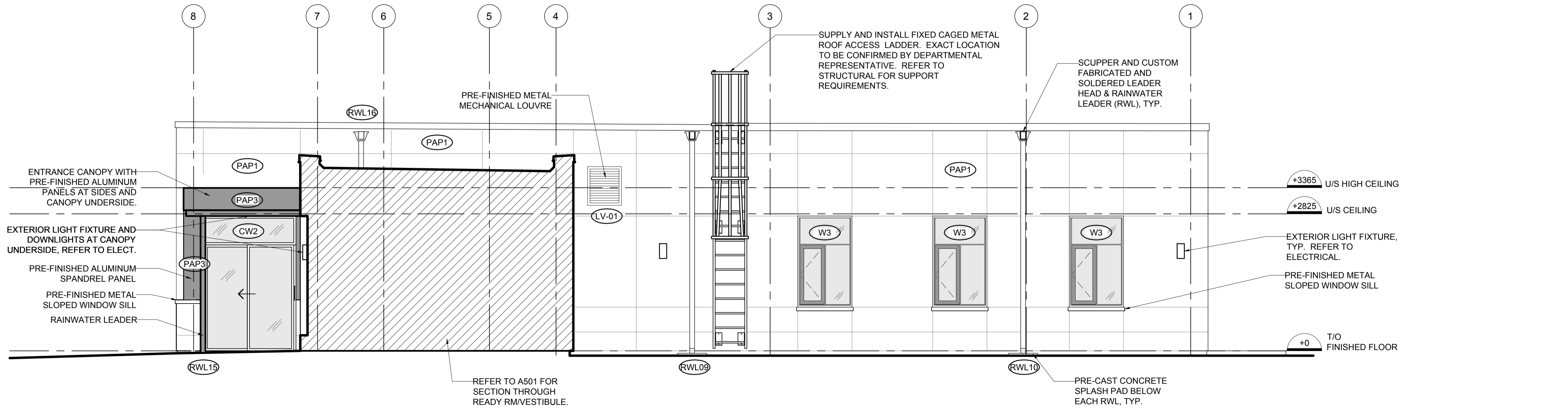
drawing no.
dessiné no. **A401**



1 KEY WEST ELEVATION - NEW LIVING QUARTERS & OFFICE (HISTORIC BUILDING)
A401 1:200



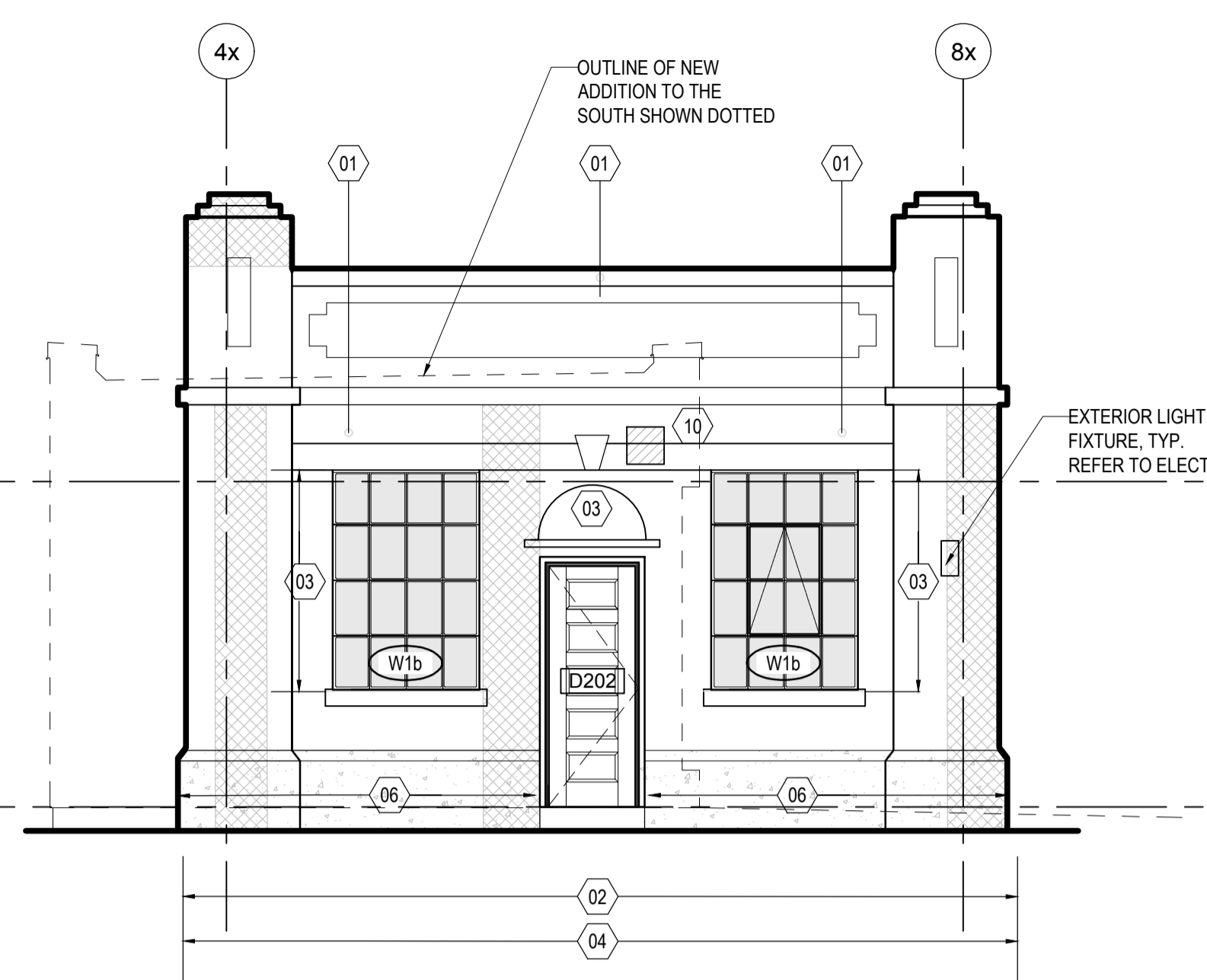
2 WEST ELEVATION - NEW LIVING QUARTERS & PARTIAL OFFICE (HISTORIC BUILDING)
A401 1:50



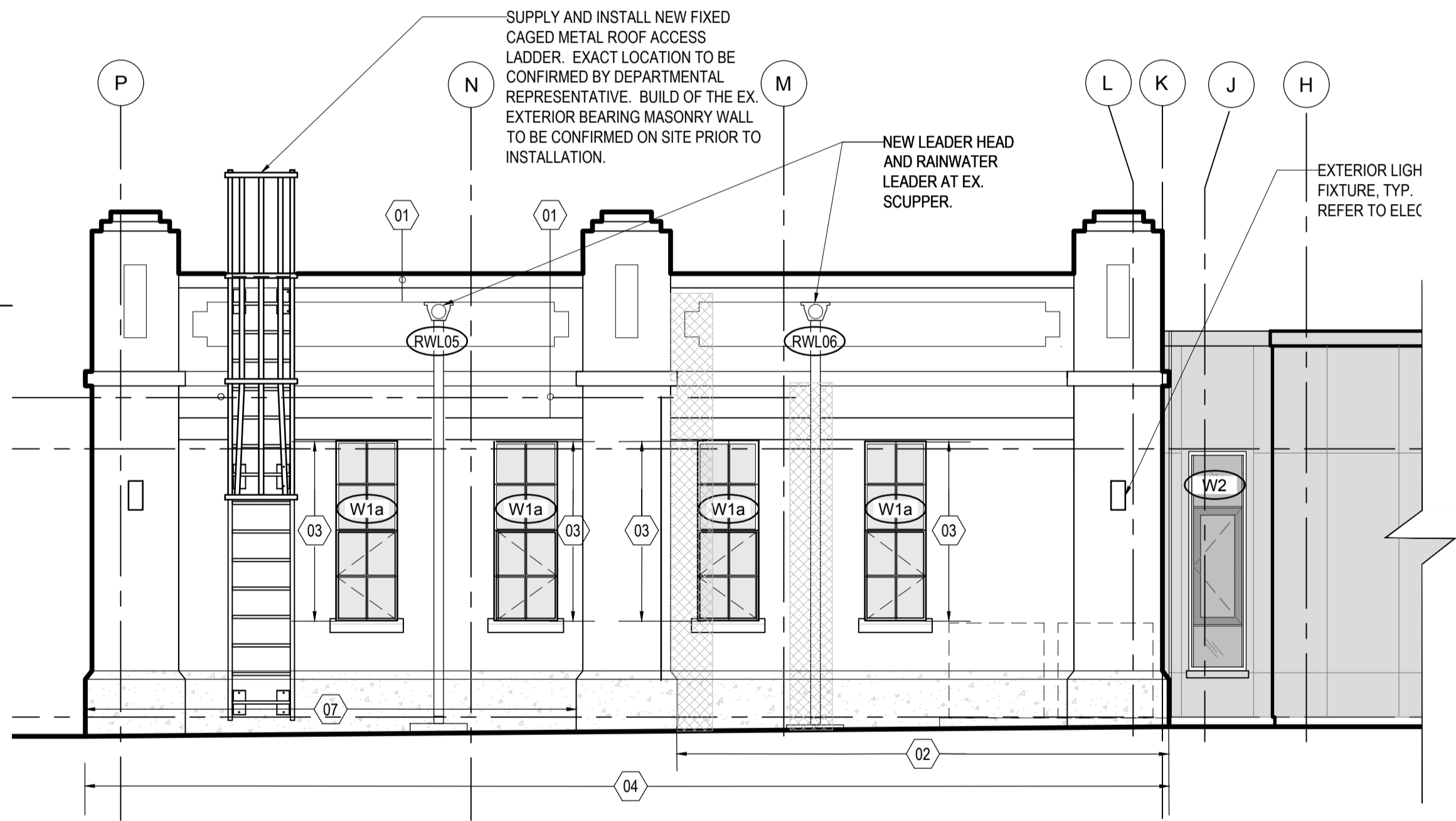
3 NORTH ELEVATION - NEW LIVING QUARTERS
A401 1:50



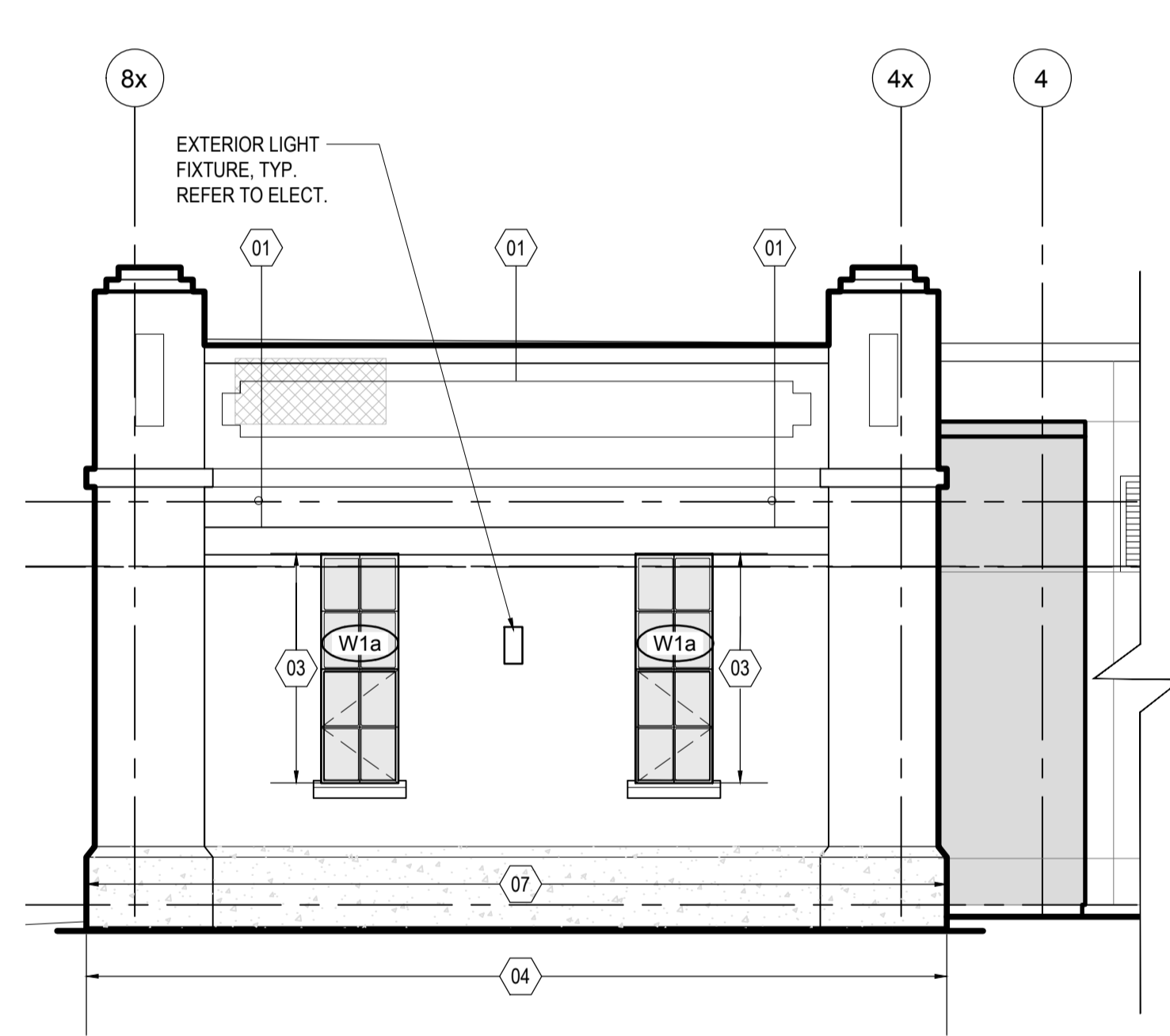
1 EAST ELEVATION - NEW OFFICE (HISTORIC BUILDING)
A402 1:50



2 SOUTH ELEVATION - NEW OFFICE (HISTORIC BUILDING)
A402 1:50 (OUTLINE OF NEW ADDITION TO SOUTH SHOWN DOTTED)



3 WEST ELEVATION - NEW OFFICE (HISTORIC BUILDING)
A402 1:50

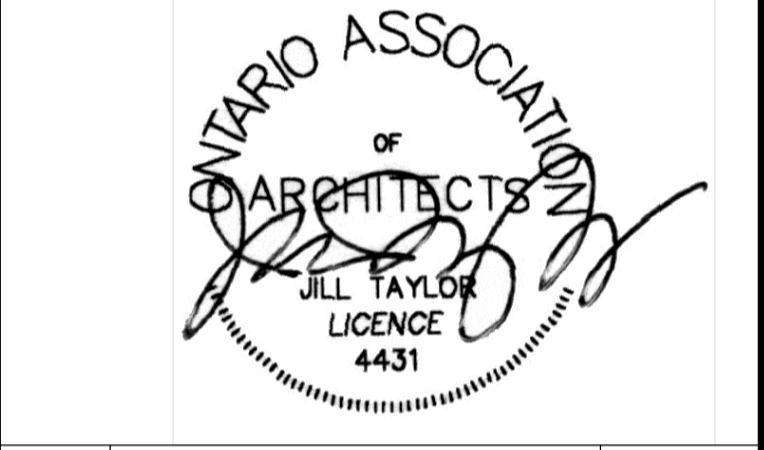


4 NORTH ELEVATION - NEW OFFICE (HISTORIC BUILDING)
A402 1:50

- EX. HISTORIC BUILDING:
NEW WORK ELEVATION NOTES:**
- 01 PLUG ALL VENT HOLES WITH MINERAL FIBRE INSULATION 75MM OFFSET FROM THE INTERIOR OF THE WALL. PLUG THE 75MM OF THE REMAINING CAVITY WITH SPRAY FOAM.
 - 02 AT LOCATIONS WHERE BUILDING REMOVALS HAVE OCCURRED, REMOVE ALL EXISTING COATINGS, PERFORM CONCRETE REPAIRS AS PER DEPARTMENTAL REPRESENTATIVE'S DIRECTION AND REINSTATE COATING AS PER SPECIFICATION SECTIONS 03 64 00 AND 09 91 00.
 - 03 PATCH ALL HOLES IN EXISTING WINDOW AND DOOR SURROUNDS LEFT AS A RESULT OF REMOVING THE EXISTING DOORS AND WINDOWS.
 - 04 REPAIR, PRIME & PAINT ALL EXTERIOR SURFACES INCLUDING WINDOW SILLS. REFER TO SPECIFICATION. PROVIDE MOCK-UP.
 - 05 AFTER REMOVALS, INSPECT PARAPET FOR DAMAGE TO EXISTING CONCRETE. PERFORM SHALLOW DEPTH REPAIRS AT ALL FASTENING LOCATIONS.
 - 06 UNPAINTED BASE. PROTECT FROM DAMAGE.
 - 07 PARTIALLY PAINTED BASE. REMOVE ALL PAINT WITH CHEMICAL AND MECHANICAL MEANS AS DESCRIBED IN PAINTING SPECIFICATION TO BARE CONCRETE. PREPARE MOCK-UP DEMONSTRATING TECHNIQUES TO ENSURE THAT BOARD-FORMED FINISH IS NOT DAMAGED IN THE COURSE OF THE WORK.
 - 08 REFER TO PHOTOGRAPHS 5/A402 OF EXISTING PLANTERS. DOCUMENT EXISTING CONDITION AND SUBMIT REPORT WITH PHOTOGRAPHS TO DEPARTMENTAL REPRESENTATIVE. COORDINATE WORK AND SCAFFOLDING TO ENSURE THAT EXISTING PLANTERS ARE PROTECTED IN PLACE.
 - 09 EXISTING BUILDING NAME AND DATE SET INTO CONCRETE. ENSURE THAT PROFILE IS NOT DAMAGED DURING PREPARATION FOR REPAINTING. REPAINT BLACK TO MATCH EXISTING.
 - 10 PROVIDE OPENING IN EX. CONCRETE WALL FOR THE PENETRATION OF NEW SERVICES. PRIOR TO DEMOLITION, SCAN EX. FOR AVOIDANCE OF ANY EX. STRUCTURAL ELEMENTS AND/OR EX. SERVICES. CROSS REFERENCE MECHANICAL AND ELECTRICAL FOR EXACT NEW OPENING SIZE REQUIRED. APPLY FIRESTOPPING. AVOID CUTTING EX. KEYSTONE. REPORT ANY CONFLICTS TO DEPARTMENTAL REPRESENTATIVE IMMEDIATELY.
- SHALLOW DEPTH CONCRETE REPAIRS WHERE EXISTING WALL ELECTRICAL OR MECHANICAL SERVICE IS REMOVED, AND AT EXISTING DAMAGE LOCATIONS, TYP.

NOTE:

1. NEW ADDITION (VESTIBULE/READY ROOM) TO SOUTH ELEVATION OF EXISTING HISTORIC BUILDING. REFER TO DRAWING 2/A501 FOR SECTION THROUGH NEW VESTIBULE/READY ROOM AT NEW LIVING QUARTERS BUILDING AND A300 FOR NEW FLOOR PLAN OF JUNCTION AT NEW AND EXISTING BUILDINGS.



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DEPARTMENT OF FISHERIES AND OCEANS
SEARCH AND RESCUE STATION
ST CATHARINES, ONTARIO
**DEMOLITION, RENOVATION,
AND NEW CONSTRUCTION**

drawing title
titre du dessin
**ELEVATIONS - NEW WORK
NEW OFFICE (HISTORIC BUILDING)**

drawn by
dessiné par AK/KS

designed by
conçu par CHu/KS

approved by
approuvé par JT

bid
offre KG project manager
administrateur de projets

project date
date du projet 2021.07.26

project no.
no. du projet R.079827.001

drawing no.
dessiné no. A402



FIG 1 - EX. EAST ELEVATION OF EX. HISTORIC BUILDING (NEW OFFICE)



FIG 2 - EX. EAST ELEVATION OF EX. HISTORIC BUILDING (NEW OFFICE)

5 PHOTOS - EXISTING PLANTERS
A402 NTS



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| 01 | ISSUED FOR TENDER | 2021-07-26 |
| revision | | date |

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project title
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PORT WELLER
DEPARTMENT OF FISHERIES AND OCEANS
SEARCH AND RESCUE STATION
ST CATHARINES
**DEMOLITION, RENOVATION,
AND NEW CONSTRUCTION**

drawing title
titre du dessin
NEW ELEVATIONS
NEW GARAGE/UTILITY BUILDING

drawn by
dessiné par **AK/KS**

designed by
conçu par **Chu/KS**

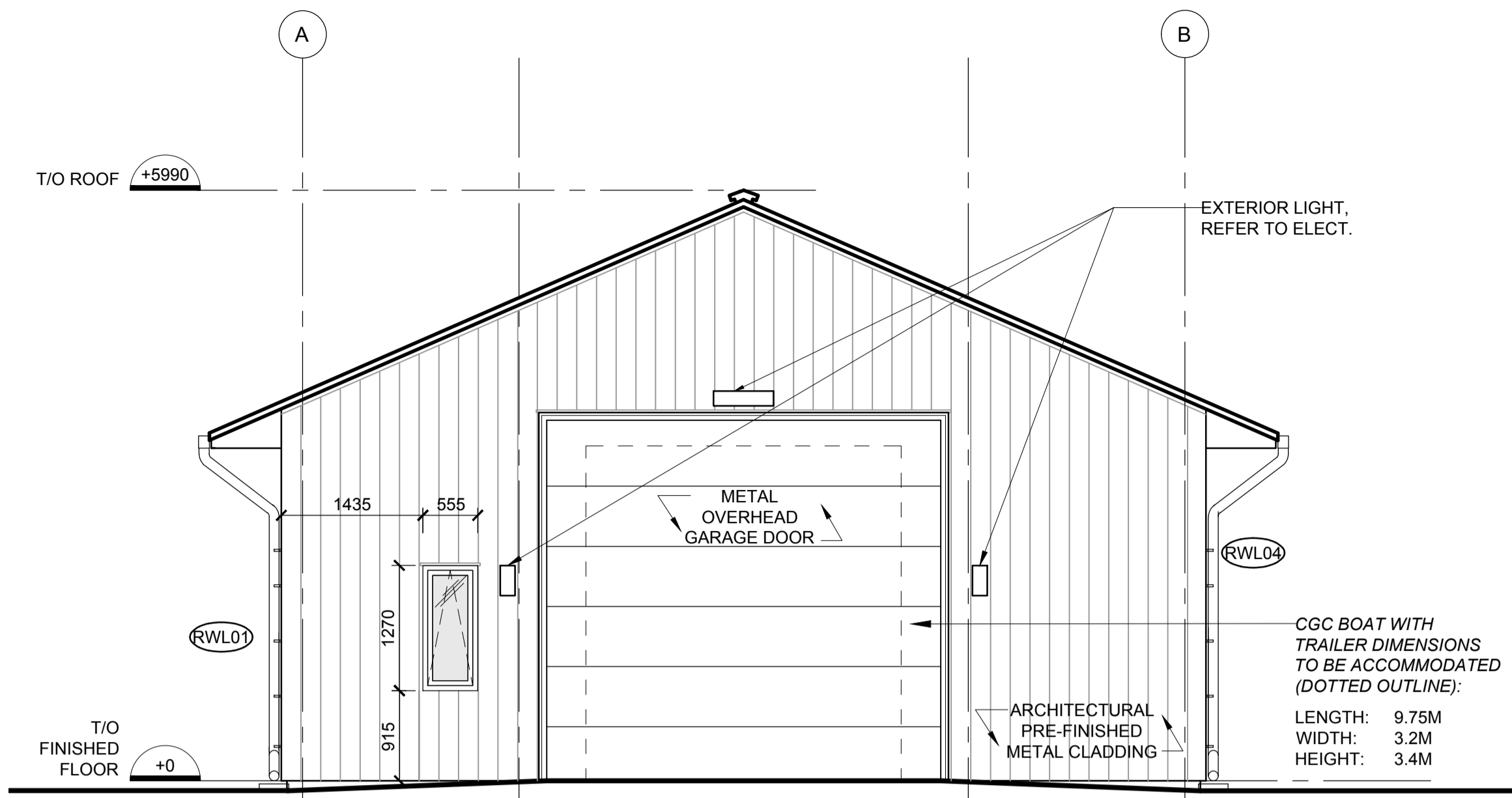
approved by
approuvé par **JT**

bid
offre **KG** project manager
administrateur de projets

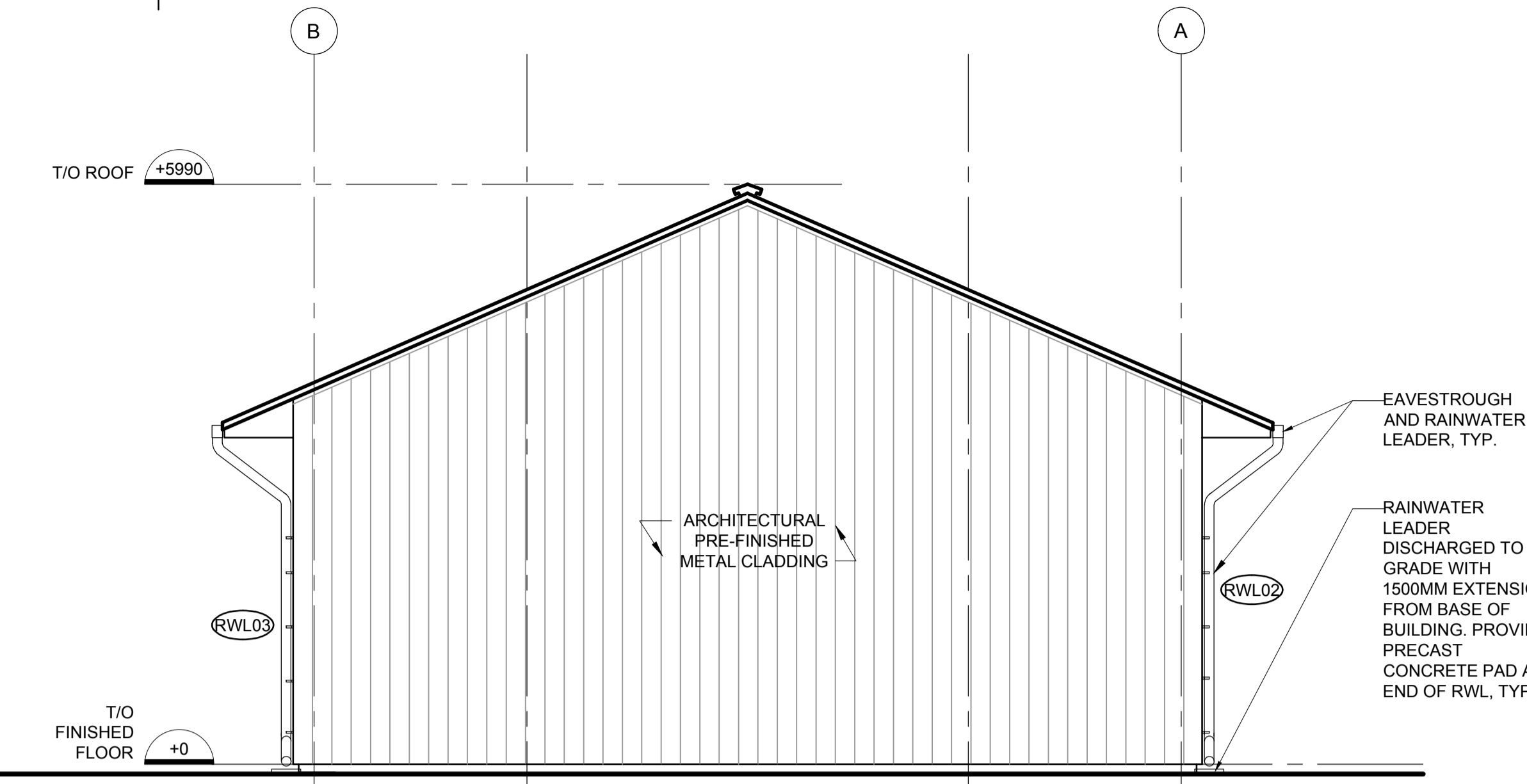
project date
date du projet **2019.11.15**

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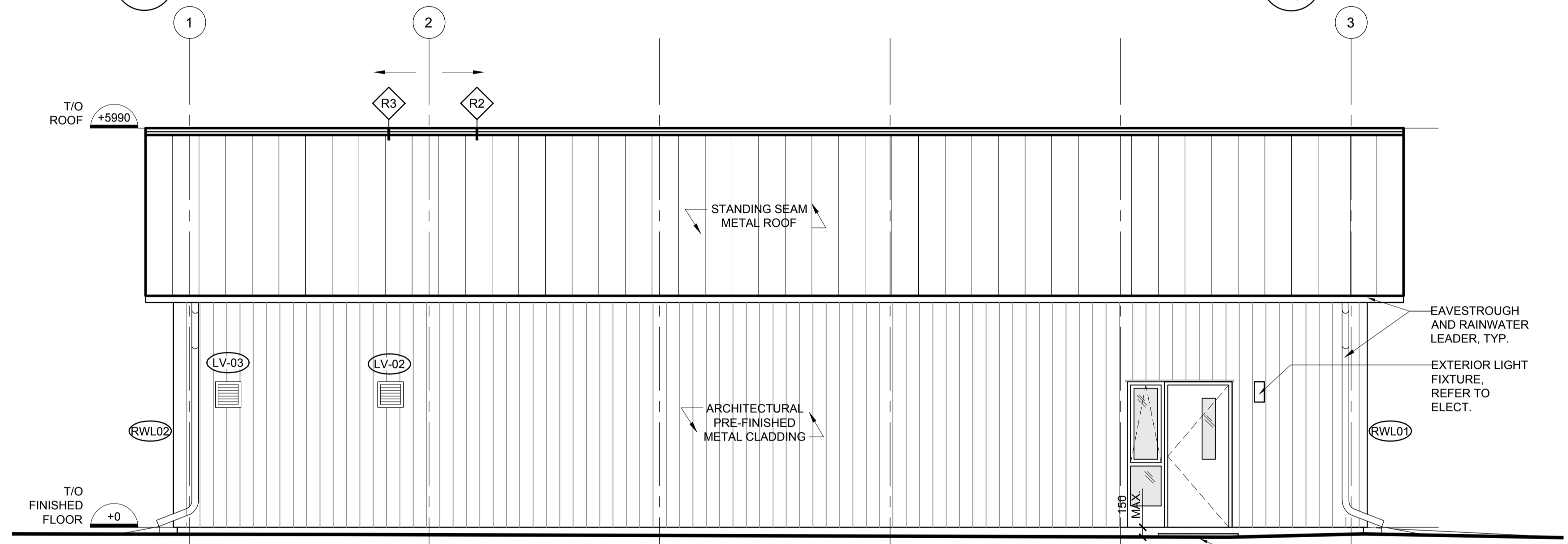
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dessiné no. **A403**



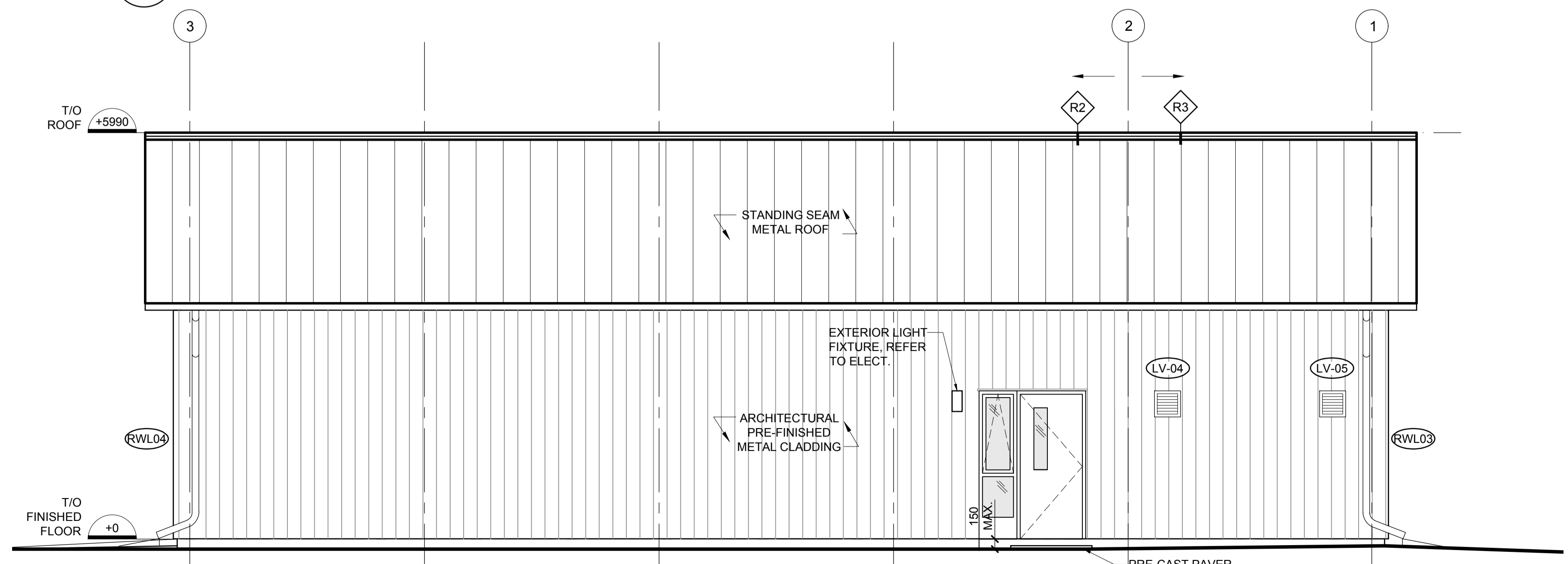
1 EAST ELEVATION - NEW GARAGE/UTILITY BUILDING
A403 1:50



2 WEST ELEVATION - GARAGE/UTILITY BUILDING
A403 1:50



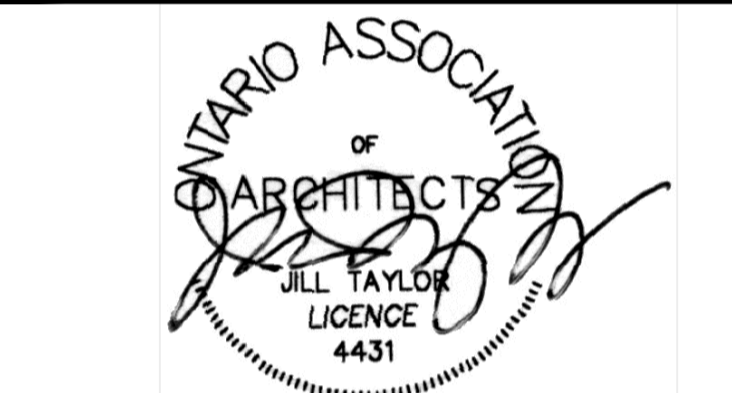
3 SOUTH ELEVATION - NEW GARAGE/UTILITY BUILDING
A403 1:50



4 NORTH ELEVATION - NEW GARAGE/UTILITY BUILDING
A403 1:50

NOTES

- BUILDING SUPPLIER/CONTRACTOR IS RESPONSIBLE FOR DESIGN (ENGINEER STAMPED) AND INSTALLATION OF GARAGE/UTILITY BUILDING ABOVE FOUNDATION AND SLAB. REFER TO ARCHITECTURAL AND STRUCTURAL DOCUMENTS BY DEPARTMENTAL REPRESENTATIVE FOR PERFORMANCE BASED REQUIREMENTS AND CRITERIA.
- SUPPLIER/CONTRACTOR IS RESPONSIBLE FOR FULL COORDINATION AND INSTALLATION OF ALL SERVICES AND REQUIREMENTS NOTED IN CONTRACT DOCUMENTS.



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ST CATHARINES
**DEMOLITION, RENOVATION,
AND NEW CONSTRUCTION**

drawing title
titre du dessin
**NEW BUILDING SECTIONS -
NEW LIVING QUARTERS &
NEW OFFICE (HISTORIC BUILDING)**

drawn by
dessiné par
KS/MP

designed by
conçu par
Chu/KS

approved by
approuvé par
JT

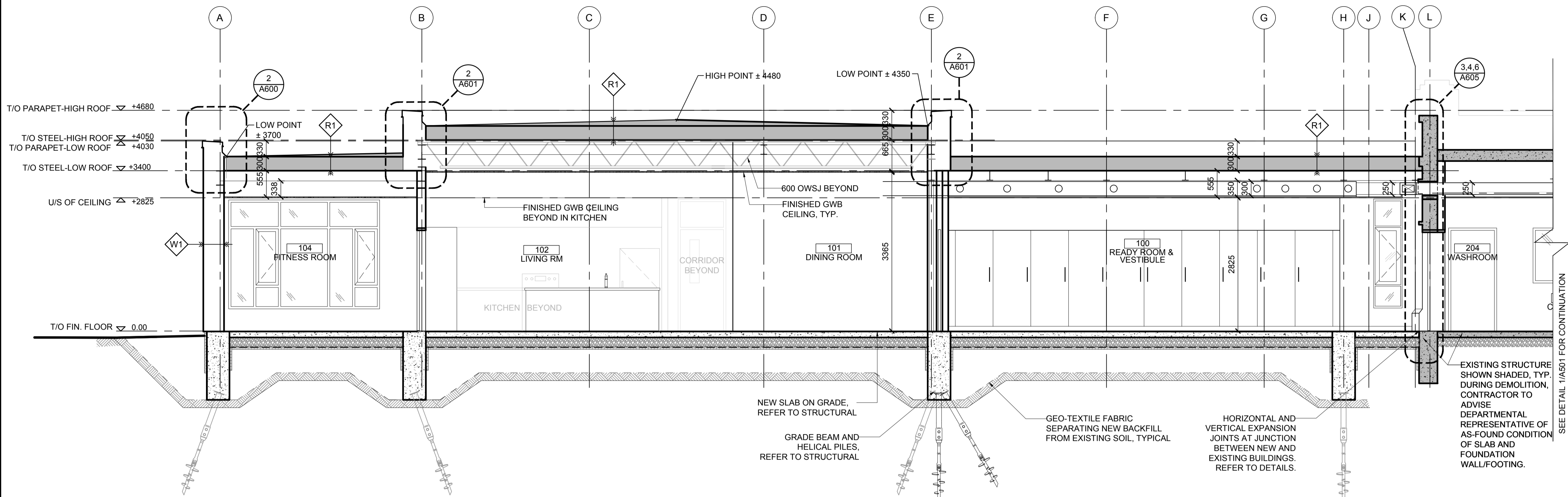
bid
offre
KG

project manager
administrateur de projets

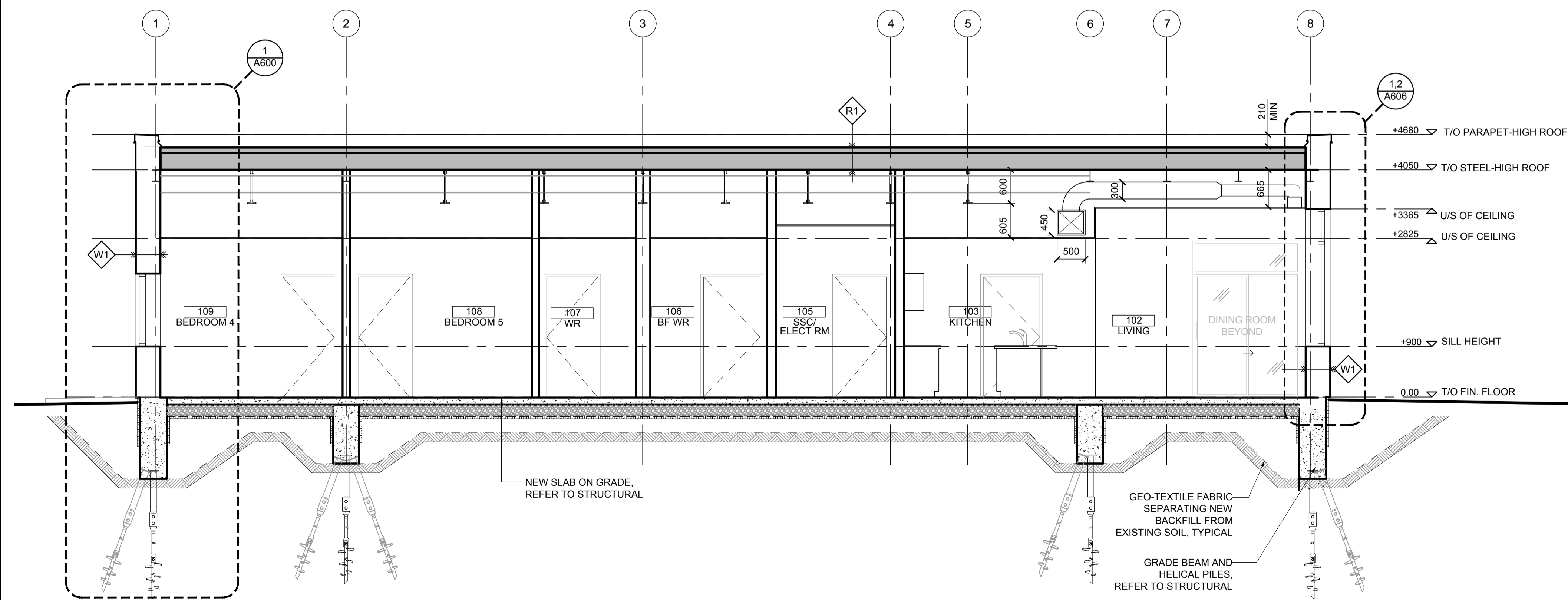
project date
date du projet
2019.11.15

project no.
no. du projet
R.079827.001

drawing no.
dessiné no.
A500



1 SECTION LOOKING WEST - NEW LIVING QUARTERS
A500 1:50



2 SECTION LOOKING NORTH - NEW LIVING QUARTERS
A500 1:50

EXTERIOR WALL ASSEMBLIES

- NOTES:
1. ASSEMBLIES NOTED FROM INTERIOR TO EXTERIOR FACE.
2. CLIMATE ZONE 7 ENCLOSURE REQUIREMENTS (DUE TO AIR SOURCE HEAT PUMP=ELECTRIC HEATING)
3. GARAGE/UTILITY BUILDING: SEMI-HEATED AREAS AT ELECTRICAL RM., WATER TREATMENT RM. & WASH UP VESTIBULE ONLY.
4. GARAGE/UTILITY BUILDING: UNHEATED AREA AT MAIN GARAGE/WORKSHOP.

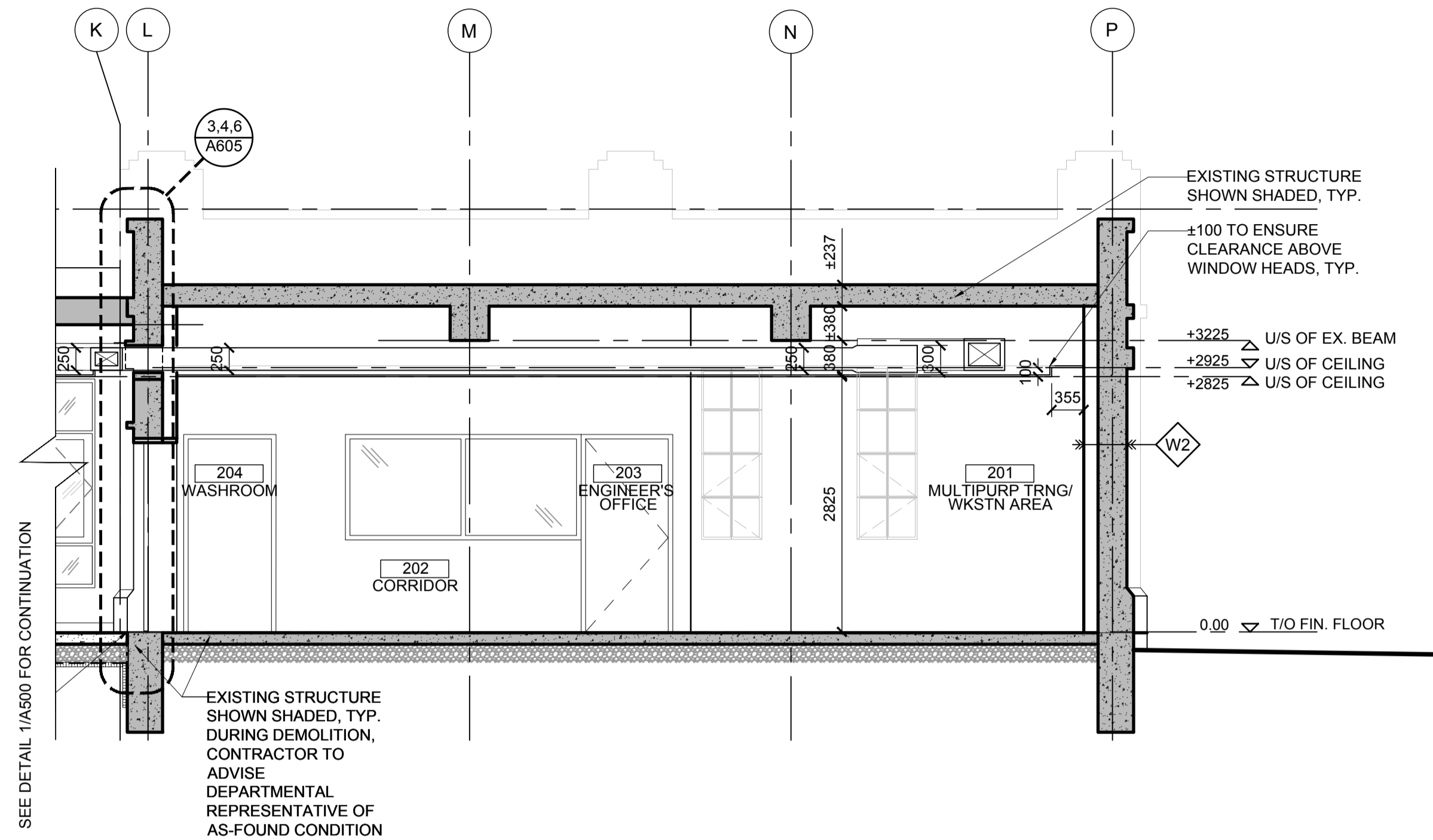
- W1 WALL TYPE 1 - LIVING QUARTERS, 441mm
 • 15.9mm GYPSUM WALL BOARD
 • 152mm STRUCTURAL STEEL STUD
 • 13mm EXTERIOR GYPSUM SHEATHING
 • AIR AND VAPOUR CONTROL MEMBRANE
 • THERMAL SPACERS WITH 175mm SEMI-RIGID MINERAL FIBRE INSULATION
 • 25mm AIR SPACE/ Z-GIRT
 • 60mm PREFINISHED ALUMINUM PANEL SYSTEM

ROOF ASSEMBLIES

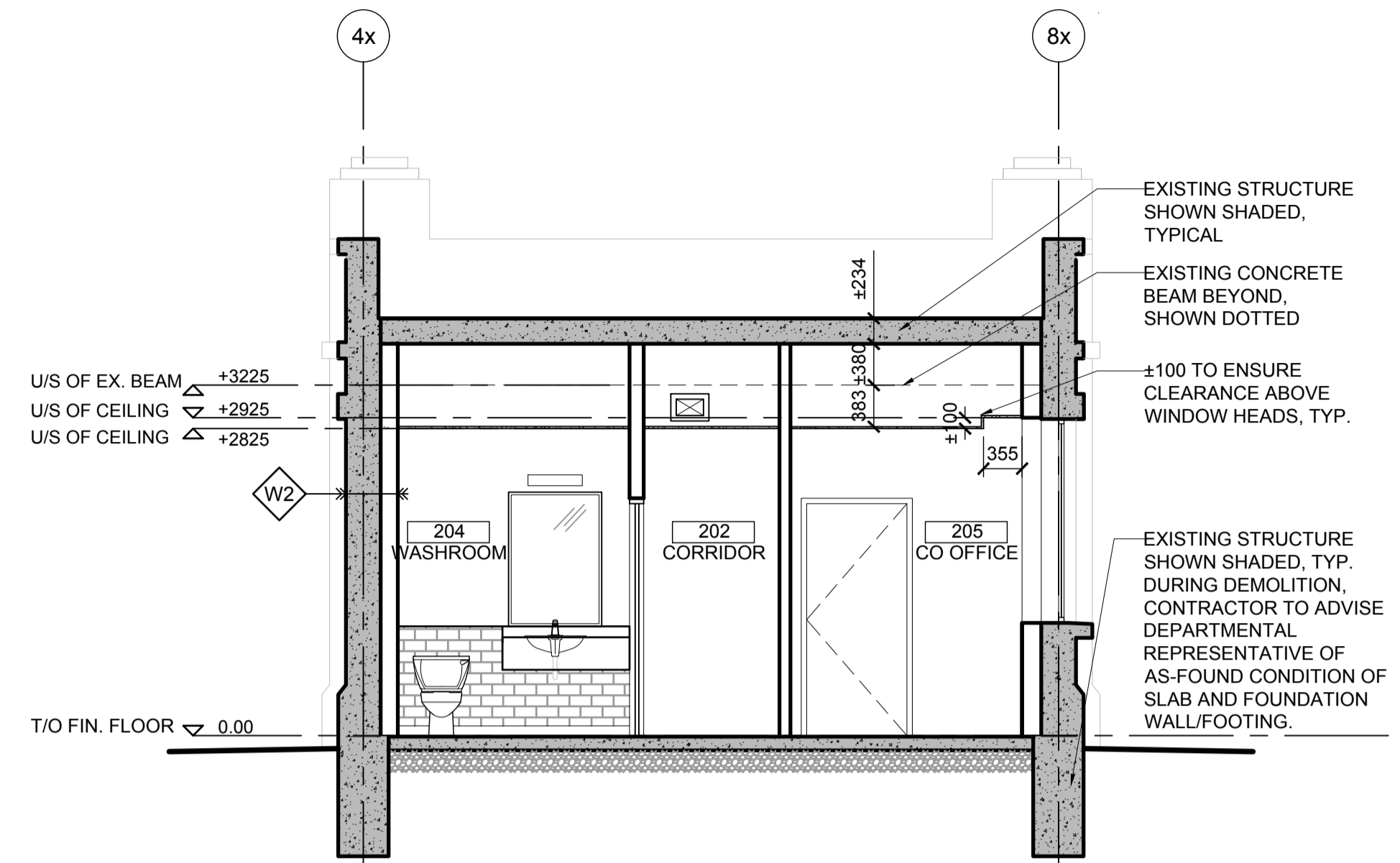
- NOTE:
1. ASSEMBLIES NOTED FROM INTERIOR TO EXTERIOR FACE.

- R1 ROOF TYPE 1 - LIVING QUARTERS, TYPICAL LOW SLOPE ROOF, 300mm MIN. (TAPERED INSULATION VARIES)
 • 38mm STEEL DECK
 • 19mm EXTERIOR GRADE PLYWOOD SHEATHING
 • AIR/VAPOUR BARRIER
 • 178mm RIGID POLYISOCYANURATE INSULATION
 • TAPERED INSULATION 2% MINIMUM (VARIES FROM 52mm MIN. TO ± 180mm TO PROVIDE SLOPE)
 • 13mm OVERLAY PROTECTION BOARD
 • BASE SHEET
 • CAP SHEET

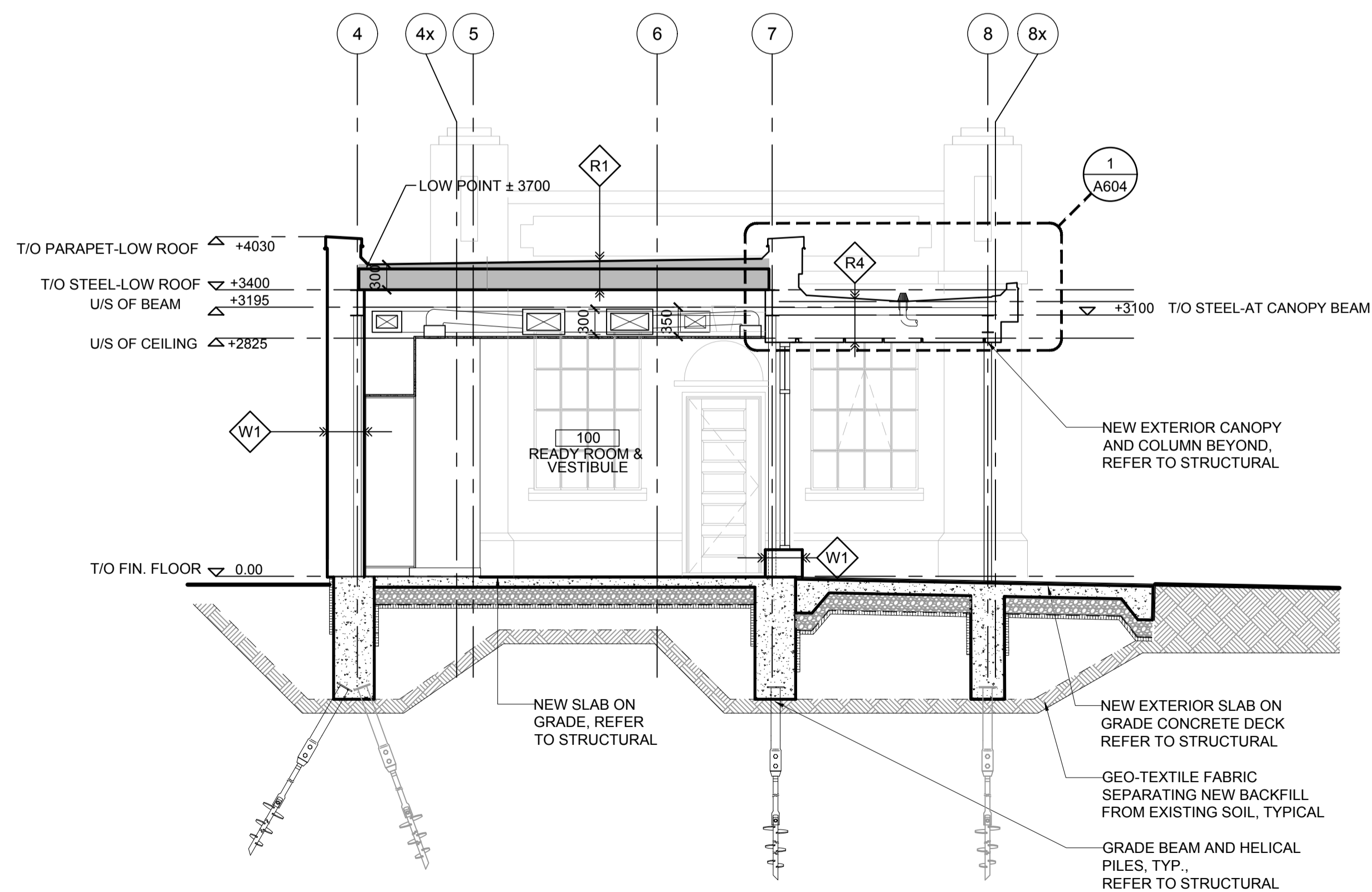
- R4 ROOF TYPE 4 - CANOPY AT READY ROOM LINK (2 PLY MOD BIT ROOFING ON STEEL DECK, NON-INSULATED)
 • 38mm STEEL DECK ON STRUCTURAL STEEL
 • 19mm EXTERIOR GRADE SHEATHING
 • ROOF SLOPE TAPERED BOARD
 • 13mm PROTECTION BOARD
 • 2 MOD BIT ROOFING MEMBRANE SYSTEM



1 SECTION LOOKING WEST - NEW OFFICE (HISTORIC BUILDING)
A501 1:50



2 SECTION LOOKING NORTH - NEW OFFICE (HISTORIC BUILDING)
A501 1:50



3 SECTION LOOKING NORTH - READY ROOM & VESTIBULE
A501 1:50

EXTERIOR WALL ASSEMBLIES

- NOTES:**
- ASSEMBLIES NOTED FROM INTERIOR TO EXTERIOR FACE.
 - CLIMATE ZONE 7 ENCLOSURE REQUIREMENTS (DUE TO AIR SOURCE HEAT PUMP=ELECTRIC HEATING)
 - GARAGE/UTILITY BUILDING: SEMI-HEATED AREAS AT ELECTRICAL RM., WATER TREATMENT RM. & WASH UP VESTIBULE ONLY.
 - GARAGE/UTILITY BUILDING: UNHEATED AREA AT MAIN GARAGE/WORKSHOP.

- W1** WALL TYPE 1 - LIVING QUARTERS, 441mm
- 15.9mm GYPSUM WALL BOARD
 - 152mm STRUCTURAL STEEL STUD
 - 13mm EXTERIOR GYPSUM SHEATHING
 - AIR AND VAPOUR CONTROL MEMBRANE
 - THERMAL SPACERS WITH 175mm SEMI-RIGID MINERAL FIBRE INSULATION
 - 25mm AIR SPACE/ Z-GIRT
 - 60mm PREFINISHED ALUMINUM PANEL SYSTEM
- W2** WALL TYPE 2 - OFFICE (EX. HISTORIC BUILDING), 478mm
- 15.9mm GYPSUM WALL BOARD, MOISTURE RESISTANT
 - 42mm STEEL STUD
 - 100mm SPRAY POLYISOCYANURATE INSULATION
 - EX. 320mm CONCRETE WALL
 - MINERAL PAINT (BREATHABLE, VAPOUR AND AIR PERMEABLE)

ROOF ASSEMBLIES

- NOTE:**
- ASSEMBLIES NOTED FROM INTERIOR TO EXTERIOR FACE.
- R1** ROOF TYPE 1 - LIVING QUARTERS, TYPICAL LOW SLOPE ROOF, 300mm MIN. (TAPERED INSULATION VARIES)
- 38mm STEEL DECK
 - 19mm EXTERIOR GRADE PLYWOOD SHEATHING
 - AIR/VAPOUR BARRIER
 - 178mm RIGID POLYISOCYANURATE INSULATION
 - TAPERED INSULATION 2% MINIMUM (VARIES FROM 52mm MIN. TO ± 180mm TO PROVIDE SLOPE)
 - 13mm OVERLAY PROTECTION BOARD
 - BASE SHEET
 - CAP SHEET
- R4** ROOF TYPE 4 - CANOPY AT READY ROOM LINK (2 PLY MOD BIT ROOFING ON STEEL DECK, NON-INSULATED)
- 38mm STEEL DECK ON STRUCTURAL STEEL
 - 19mm EXTERIOR GRADE SHEATHING
 - ROOF SLOPE TAPERED BOARD
 - 13mm PROTECTION BOARD
 - 2 MOD BIT ROOFING MEMBRANE SYSTEM

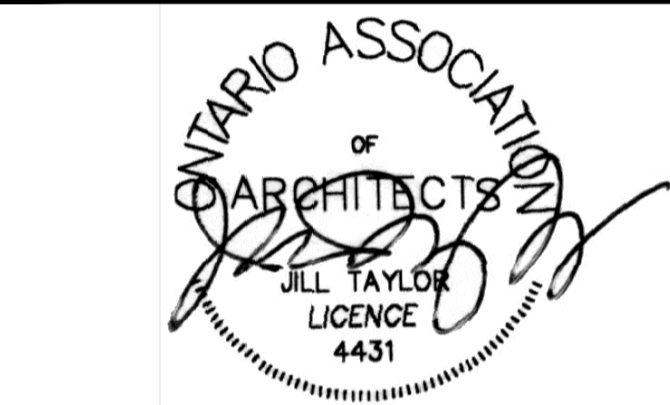
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drawing title
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**NEW BUILDING SECTIONS
NEW LIVING QUARTERS &
NEW OFFICE (HISTORIC BUILDING)**

drawn by
dessiné par KS/MP

designed by
conçu par CHu/KS

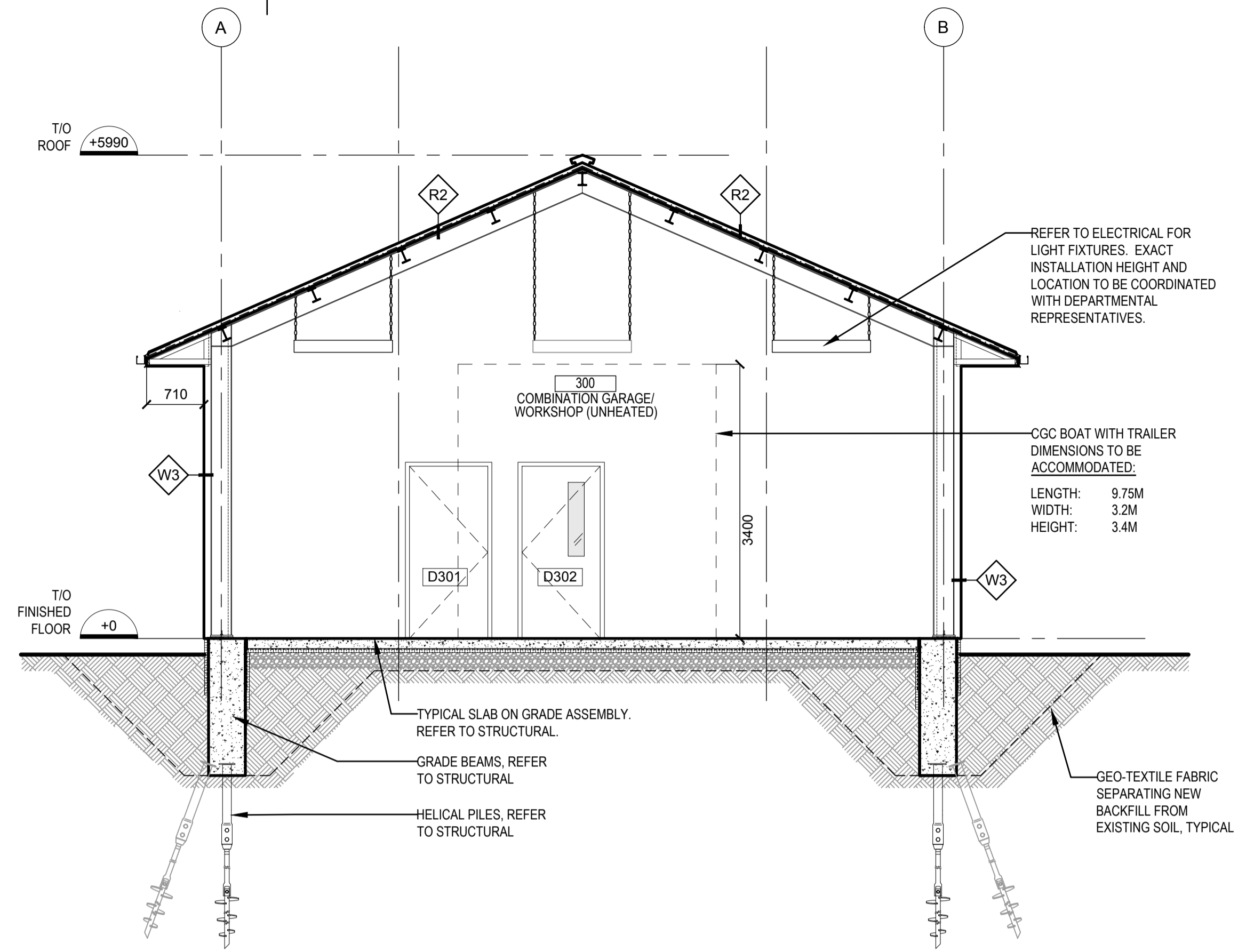
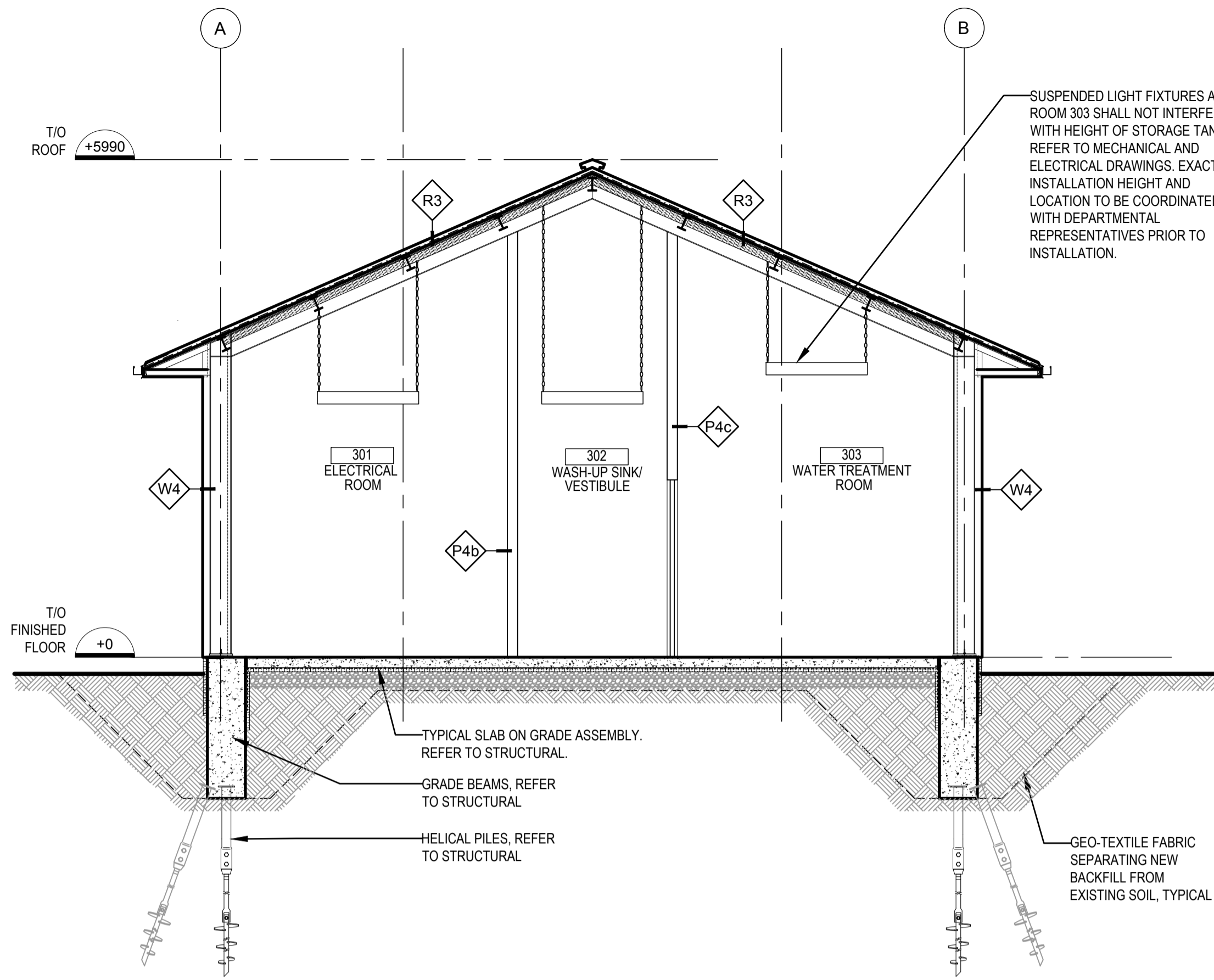
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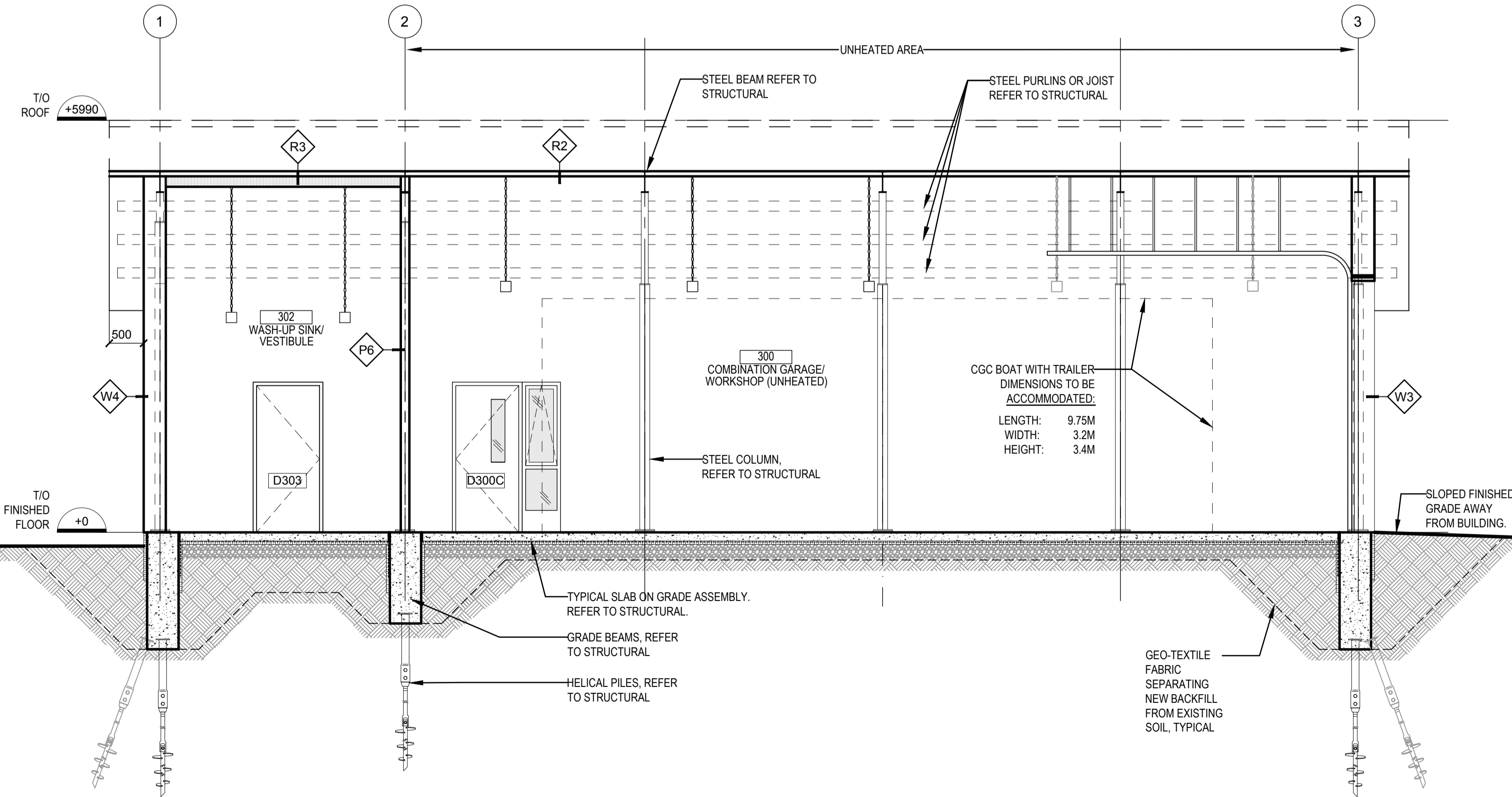
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1 NEW BLDG SECTION LOOKING WEST - GARAGE/UTILITY BUILDING AT HEATED* UTILITY ROOMS
A502 1:50

2 NEW BLDG SECTION LOOKING WEST - NEW GARAGE/UTILITY BUILDING AT UNHEATED GARAGE/WORKSHOP
A502 1:50

*DESIGNED FOR EFFECTIVE USE OF EQUIPMENT, NOT HUMAN COMFORT.



3 NEW BUILDING SECTION LOOKING NORTH - NEW GARAGE/UTILITY BUILDING
A502 1:50

| ROOF ASSEMBLIES | INTERIOR PARTITION ASSEMBLIES |
|---|---|
| <p>NOTE:</p> <p>1. ASSEMBLIES NOTED FROM INTERIOR TO EXTERIOR FACE.</p> <p>R2 ROOF TYPE 2 - GARAGE/UTILITY BUILDING OVER GARAGE WORKSHOP RM. 300 (UNINSULATED)</p> <ul style="list-style-type: none"> STEEL TRUSS (REFER TO STRUCTURAL) 19mm PLYWOOD SHEATHING ROOF MEMBRANE STANDING SEAM METAL ROOF <p>R3 ROOF TYPE 3 - GARAGE/UTILITY BUILDING OVER UTILITY ROOMS 301, 302, 303 (INSULATED) (MIN. RSI 2.3 + 3.3 - OBC TABLE SB 5.5-7)</p> <ul style="list-style-type: none"> STEEL TRUSS (REFER TO STRUCTURAL) WITH SPRAY FOAM INSULATION 19mm PLYWOOD SHEATHING ROOF MEMBRANE (AIR AND VAPOUR CONTROL) 152mm RIGID INSULATION WITH THERMALLY BROKEN CLIPS STANDING SEAM METAL ROOF | <p>NOTES:</p> <p>1. ALL PARTITIONS TO EXTEND TO THE UNDERSIDE OF THE ROOF DECK UNLESS OTHERWISE NOTED.</p> <p>2. ASSEMBLIES NOTED FROM INTERIOR OF ROOM WHERE TAG IS PLACED.</p> <p>3. AT PARTITION LOCATIONS WITH INTERIOR COLUMNS, INSTALL A 152mm METAL STUD IN LIEU OF 92mm. OTHERWISE, ASSEMBLY REMAINS AS NOTED.</p> <p>4. OUTER LAYER OF FINISH ON BOTH SIDES OF PARTITION MUST HAVE ITS JOINTS TAPED AND FINISHED.</p> <p>P4b PARTITION TYPE 4b - LIVING QUARTERS, GARAGE/UTILITY BUILDING, (NBC DIV. B TABLE 9.10.3.1-A S4a), 1H FIRE SEPARATION, 124mm</p> <ul style="list-style-type: none"> 15.9mm TYPE X GYPSUM BOARD 92mm STEEL STUDS SPACED 600mm O.C. 89mm THICK ABSORPTIVE MATERIAL (WITHIN STUD CAVITY) 15.9mm TYPE X GYPSUM BOARD, WATER RESISTANT <p>P4c PARTITION TYPE 4c - GARAGE/UTILITY BUILDING, (NBC DIV. B TABLE 9.10.3.1-A S4a), 1H FIRE SEPARATION, 124mm</p> <ul style="list-style-type: none"> 15.9mm TYPE X GYPSUM BOARD, WATER RESISTANT 92mm STEEL STUDS SPACED 600mm O.C. 89mm THICK ABSORPTIVE MATERIAL (WITHIN STUD CAVITY) 15.9mm TYPE X GYPSUM BOARD, WATER RESISTANT <p>P6 PARTITION TYPE 6 - GARAGE/UTILITY BUILDING (INSULATED) (MIN. RSI 2.3 + 7.0 - OBC TABLE SB 5.5-7), 1H FIRE SEPARATION, 343mm</p> <ul style="list-style-type: none"> 15.9mm TYPE X GYPSUM BOARD, WATER RESISTANT 203mm STEEL STUDS SPACED AT 400MM OC MIN. WITH CLOSED CELL SPRAY FOAM INSULATION 89mm THICK ABSORPTIVE MATERIAL 19mm PLYWOOD SHEATHING BUILDING PAPER (AIR BARRIER) 15.9mm TYPE X GYPSUM BOARD, WATER RESISTANT |
| EXTERIOR WALL ASSEMBLIES | |
| <p>NOTES:</p> <p>1. ASSEMBLIES NOTED FROM INTERIOR TO EXTERIOR FACE.</p> <p>2. CLIMATE ZONE 7 ENCLOSURE REQUIREMENTS (DUE TO AIR SOURCE HEAT PUMP/ELECTRIC HEATING)</p> <p>3. GARAGE/UTILITY BUILDING: SEMI-HEATED AREAS AT ELECTRICAL RM., WATER TREATMENT RM. & WASH UP VESTIBULE ONLY.</p> <p>4. GARAGE/UTILITY BUILDING: UNHEATED AREA AT MAIN GARAGE/WORKSHOP.</p> <p>W3 WALL TYPE 3 - GARAGE/UTILITY BUILDING (UNINSULATED), 282mm</p> <ul style="list-style-type: none"> 203mm STRUCTURAL STEEL STUDS 19mm PLYWOOD SHEATHING BUILDING PAPER (AIR BARRIER) 22mm HAT CHANNEL 38mm METAL CLADDING (STANDARD PROFILE) <p>W4 WALL TYPE 4 - GARAGE/UTILITY BUILDING (INSULATED) (MIN. RSI 2.3 + 7.0 - OBC TABLE SB 5.5-7), 320mm</p> <ul style="list-style-type: none"> 15.9mm TYPE X GYPSUM BOARD, WATER RESIST. 203mm STRUCTURAL STEEL STUDS, WITH CLOSED CELL SPRAY FOAM INSULATION 19mm PLYWOOD SHEATHING BUILDING PAPER (AIR BARRIER) 22mm HAT CHANNEL 38mm METAL CLADDING (STANDARD PROFILE) | <p>*P6 IS A 1HR FIRE SEPARATION WITH A SIMILAR ASSEMBLY AS EXTERIOR WALL W4, INCORPORATING THE 1HR FIRE SEPARATION ASSEMBLY OF P4C (PER NBC DIV. B TABLE 9.10.3.1-A S4a). P6 AT GARAGE BUILDING INTERIOR ENCLOSES SEMI-HEATED SERVICE ROOMS ADJACENT TO UNHEATED GARAGE/WORKSHOP SPACE.</p> <p>NOTES:</p> <p>1. BUILDING SUPPLIER/CONTRACTOR IS RESPONSIBLE FOR DESIGN (ENGINEER STAMPED) AND INSTALLATION OF GARAGE/UTILITY BUILDING ABOVE FOUNDATION AND SLAB. REFER TO ARCHITECTURAL AND STRUCTURAL DOCUMENTS BY DEPARTMENTAL REPRESENTATIVE FOR PERFORMANCE BASED REQUIREMENTS AND CRITERIA.</p> <p>2. SUPPLIER/CONTRACTOR IS RESPONSIBLE FOR FULL COORDINATION AND INSTALLATION OF ALL SERVICES AND REQUIREMENTS NOTED IN CONTRACT DOCUMENTS.</p> |

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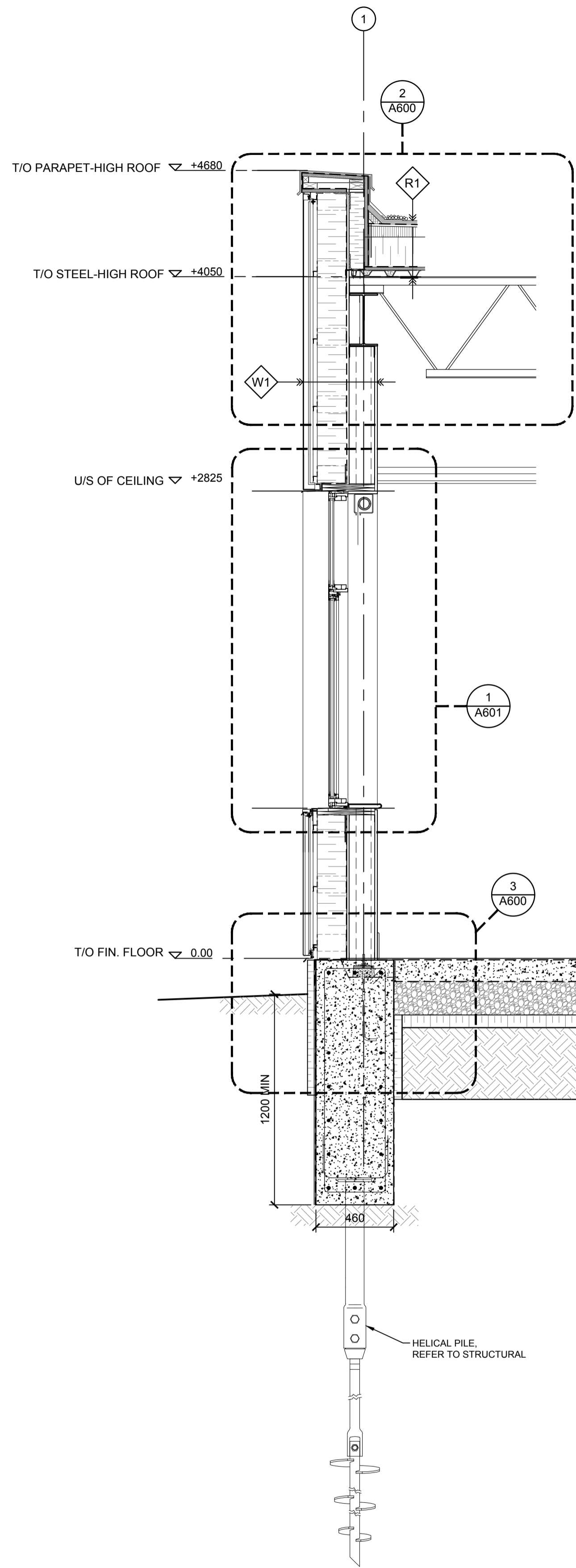
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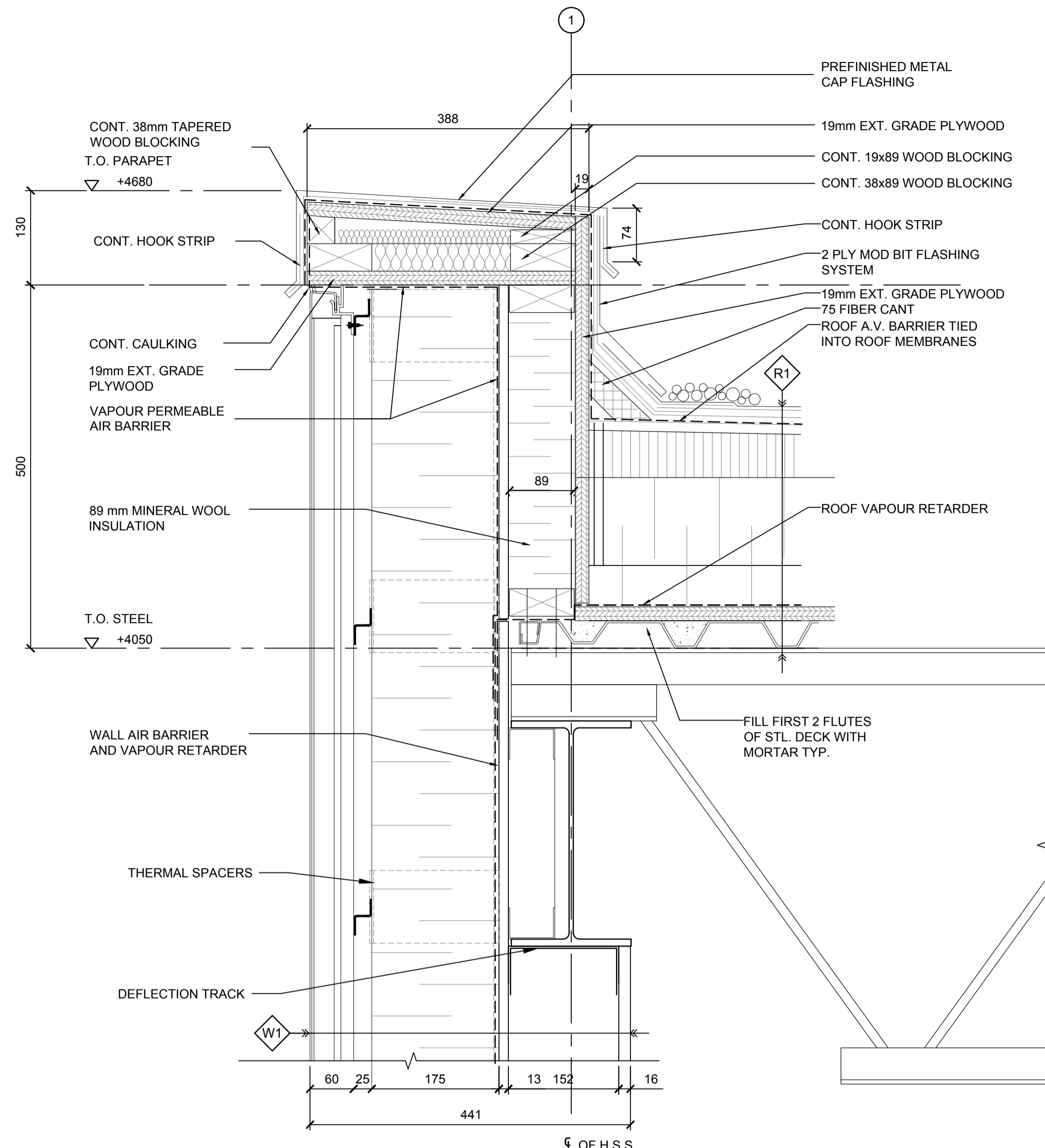
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**NEW SECTIONS
NEW GARAGE/UTILITY BUILDING**

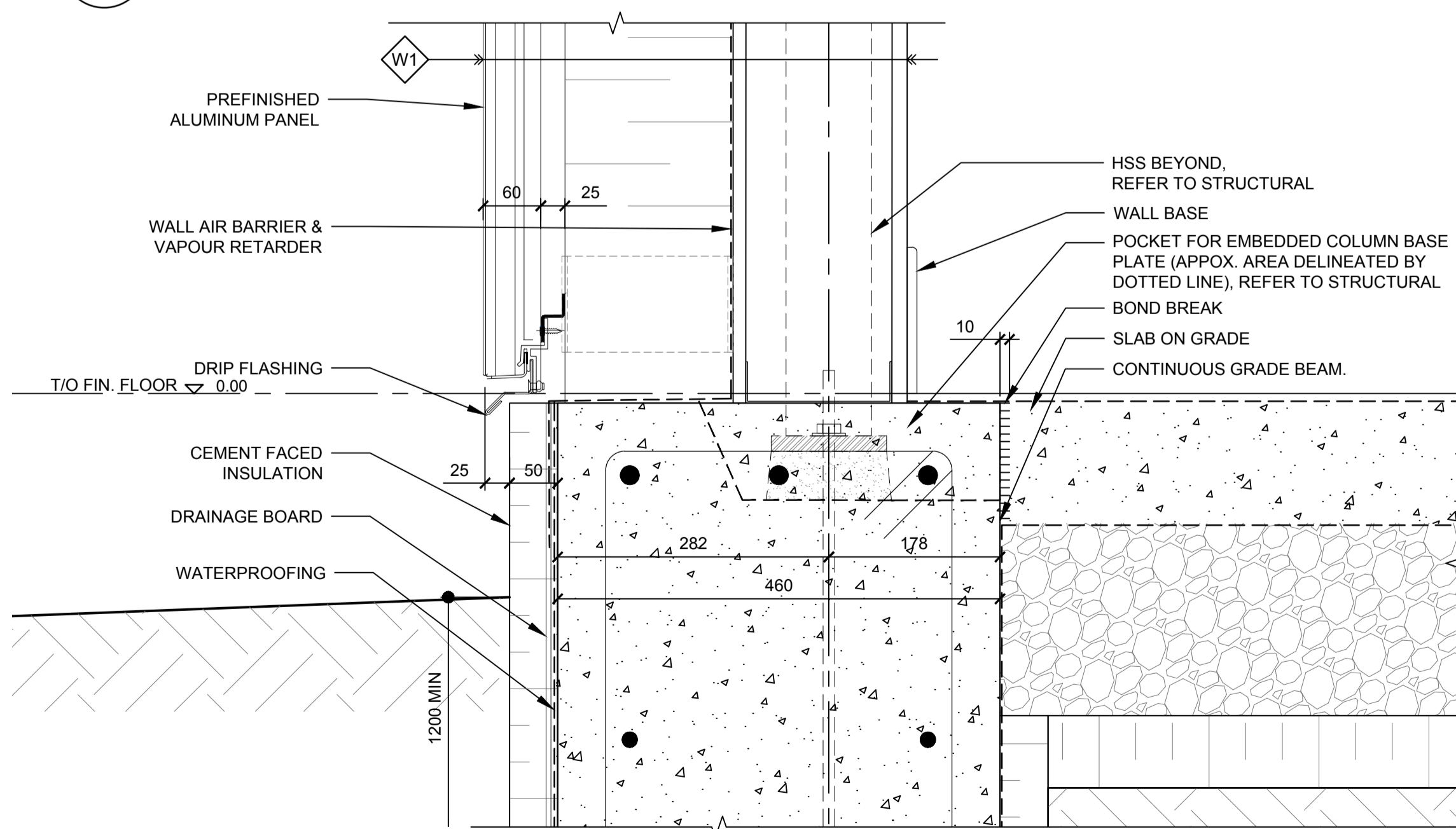
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drawing no. dessiné no. A502



1 WALL SECTION
A600 1:20



2 PARAPET DETAIL- HIGH ROOF
A600 1:5



3 FOUNDATION DETAIL
A600 1:5

- ROOF ASSEMBLIES**
- NOTE:
1. ASSEMBLIES NOTED FROM INTERIOR TO EXTERIOR FACE.
- R1 ROOF TYPE 1 - LIVING QUARTERS, TYPICAL LOW SLOPE ROOF, 300mm MIN. (TAPERED INSULATION VARIES)**
 - 38mm STEEL DECK
 - 19mm EXTERIOR GRADE PLYWOOD SHEATHING
 - AIR/VAPOUR BARRIER
 - 178mm RIGID POLYISOCYANURATE INSULATION
 - TAPERED INSULATION 2% MINIMUM (VARIES FROM 52mm MIN. TO ± 180mm TO PROVIDE SLOPE)
 - 13mm OVERLAY PROTECTION BOARD
 - BASE SHEET
 - CAP SHEET
 - R2 ROOF TYPE 2 - GARAGE/UTILITY BUILDING OVER GARAGE WORKSHOP RM. 300 (UNINSULATED)**
 - STEEL TRUSS (REFER TO STRUCTURAL)
 - 19mm PLYWOOD SHEATHING
 - ROOF MEMBRANE
 - STANDING SEAM METAL ROOF
 - R3 ROOF TYPE 3 - GARAGE/UTILITY BUILDING OVER UTILITY ROOMS 301, 302, 303 (INSULATED) (MIN. RSI 2.3 + 3.3 - OBC TABLE SB 5.5-7)**
 - STEEL TRUSS (REFER TO STRUCTURAL) WITH SPRAY FOAM INSULATION
 - 19mm PLYWOOD SHEATHING
 - ROOF MEMBRANE (AIR AND VAPOUR CONTROL)
 - 152mm RIGID INSULATION WITH THERMALLY BROKEN CLIPS
 - STANDING SEAM METAL ROOF
 - R4 ROOF TYPE 4 - CANOPY AT READY ROOM LINK (2 PLY MOD BIT ROOFING ON STEEL DECK- NON-INSULATED)**
 - 38mm STEEL DECK ON STRUCTURAL STEEL
 - 19mm EXTERIOR GRADE SHEATHING
 - ROOF SLOPE TAPERED BOARD
 - 13mm PROTECTION BOARD
 - 2 MOD BIT ROOFING MEMBRANE SYSTEM

- EXTERIOR WALL ASSEMBLIES**
- NOTES:
1. ASSEMBLIES NOTED FROM INTERIOR TO EXTERIOR FACE.
2. CLIMATE ZONE 7 ENCLOSURE REQUIREMENTS (DUE TO AIR SOURCE HEAT PUMP-ELECTRIC HEATING)
3. GARAGE/UTILITY BUILDING: SEMI-HEATED AREAS AT ELECTRICAL RM., WATER TREATMENT RM. & WASH UP VESTIBULE ONLY.
4. GARAGE/UTILITY BUILDING: UNHEATED AREA AT MAIN GARAGE/WORKSHOP.
- W1 WALL TYPE 1 - LIVING QUARTERS, 441mm**
 - 15.9mm GYPSUM WALL BOARD
 - 152mm STRUCTURAL STEEL STUD
 - 13mm EXTERIOR GYPSUM SHEATHING
 - AIR AND VAPOUR CONTROL MEMBRANE
 - THERMAL SPACERS WITH 175mm SEMI-RIGID MINERAL FIBRE INSULATION
 - 25mm AIR SPACE/ Z-GIRT
 - 60mm PREFINISHED ALUMINUM PANEL SYSTEM
 - W2 WALL TYPE 2 - OFFICE (EX. HISTORIC BUILDING), 478mm**
 - 15.9mm GYPSUM WALL BOARD, MOISTURE RESISTANT
 - 42mm STEEL STUD
 - 100mm SPRAY POLYISOCYANURATE INSULATION
 - EX. 320mm CONCRETE WALL
 - MINERAL PAINT (BREATHABLE, VAPOUR AND AIR PERMEABLE)
 - W3 WALL TYPE 3 - GARAGE/UTILITY BUILDING (UNINSULATED), 282mm**
 - 203mm STRUCTURAL STEEL STUDS
 - 19mm PLYWOOD SHEATHING
 - BUILDING PAPER (AIR BARRIER)
 - 22mm HAT CHANNEL
 - 38mm METAL CLADDING (STANDARD PROFILE)
 - W4 WALL TYPE 4 - GARAGE/UTILITY BUILDING (INSULATED) (MIN. RSI 2.3 + 7ci - OBC TABLE SB 5.5-7), 320mm**
 - 15.9mm TYPE X GYPSUM BOARD, WATER RESIST.
 - 203mm STRUCTURAL STEEL STUDS, WITH CLOSED CELL SPRAY FOAM INSULATION
 - 19mm PLYWOOD SHEATHING
 - BUILDING PAPER (AIR BARRIER)
 - 22mm HAT CHANNEL
 - 38mm METAL CLADDING (STANDARD PROFILE)

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

project title
titre du projet
PORT WELLER
DEPARTMENT OF FISHERIES AND OCEANS
SEARCH AND RESCUE STATION
ST CATHARINES
**DEMOLITION, RENOVATION,
AND NEW CONSTRUCTION**

drawing title
titre du dessin
**BUILDING SECTION DETAILS -
TYPICAL WALL & PARAPET,
NEW LIVING QUARTERS**

drawn by
dessiné par MP

designed by
conc par KS/MP

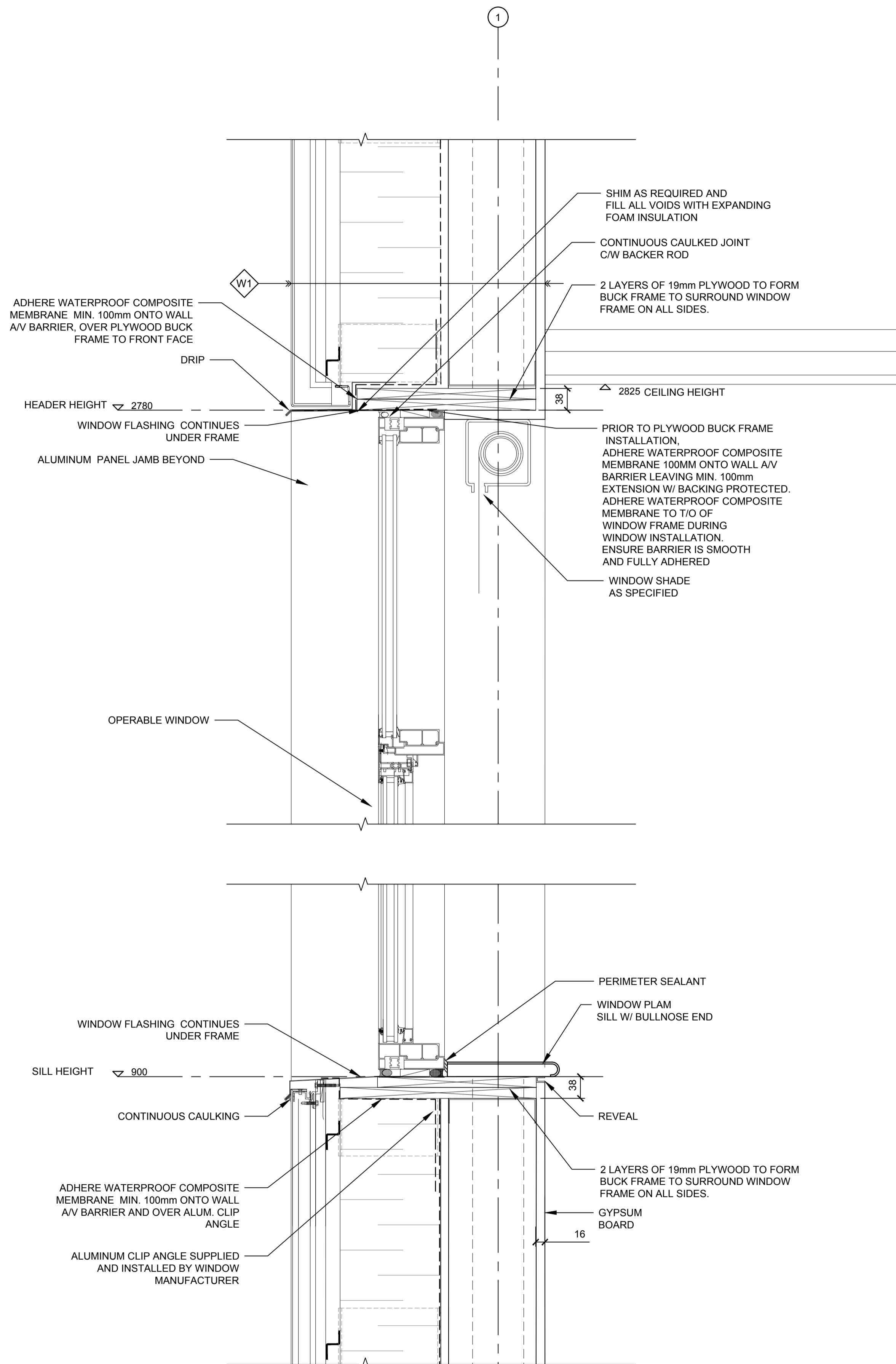
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administrateur de projets

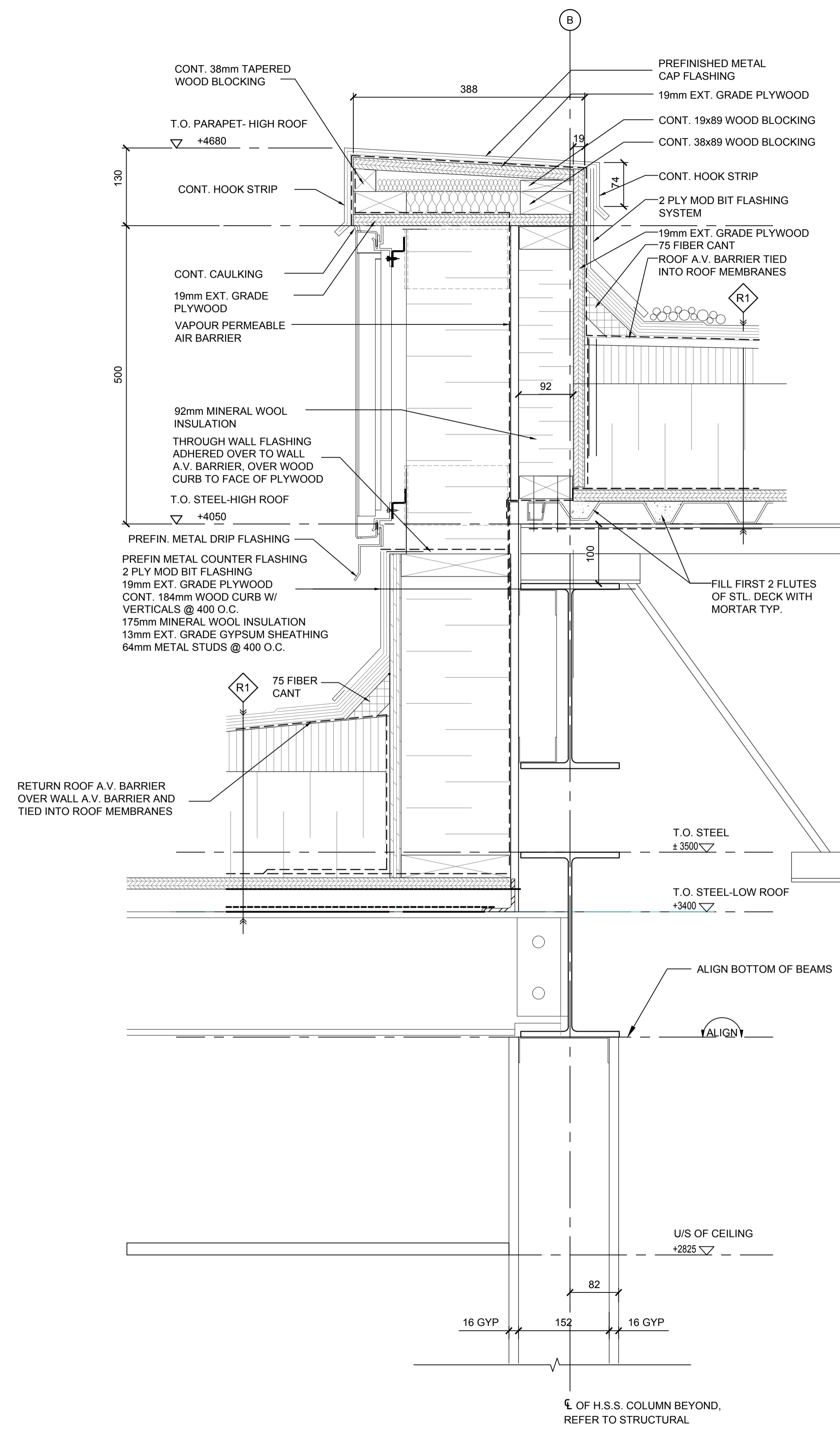
project date
date du projet 2019.11.15

project no.
no. du projet R.079827.001

drawing no.
dessiné no. A600



1 SECTION DETAIL AT BEDROOM WINDOW
A601 1:5



2 PARAPET DETAIL- HIGH ROOF AND LOW ROOF
A601 1:5

Public Works and Government Services Canada
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C drawing no. - where detailed
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SEARCH AND RESCUE STATION
ST CATHARINES
**DEMOLITION, RENOVATION,
AND NEW CONSTRUCTION**

drawing title
titre du dessin
**BUILDING SECTION DETAILS -
NEW LIVING QUARTERS**

drawn by
dessiné par MP

designed by
conçu par KS/MP

approved by
approuvé par JT

bid
offre KG project manager
administrateur de projets

project date
date du projet 2019.11.15

project no.
no. du projet R.079827.001

drawing no.
dessiné no. A601

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project title
titre du projet
PORT WELLER
SEARCH AND RESCUE STATION
ST CATHARINES
**DEMOLITION, RENOVATION,
AND NEW CONSTRUCTION**

drawing title
titre du dessin
**NEW WALL SECTIONS -
NEW OFFICE
(HISTORIC BUILDING)**

drawn by
dessiné par **MO/AK/KS**

designed by
conc par **CHu**

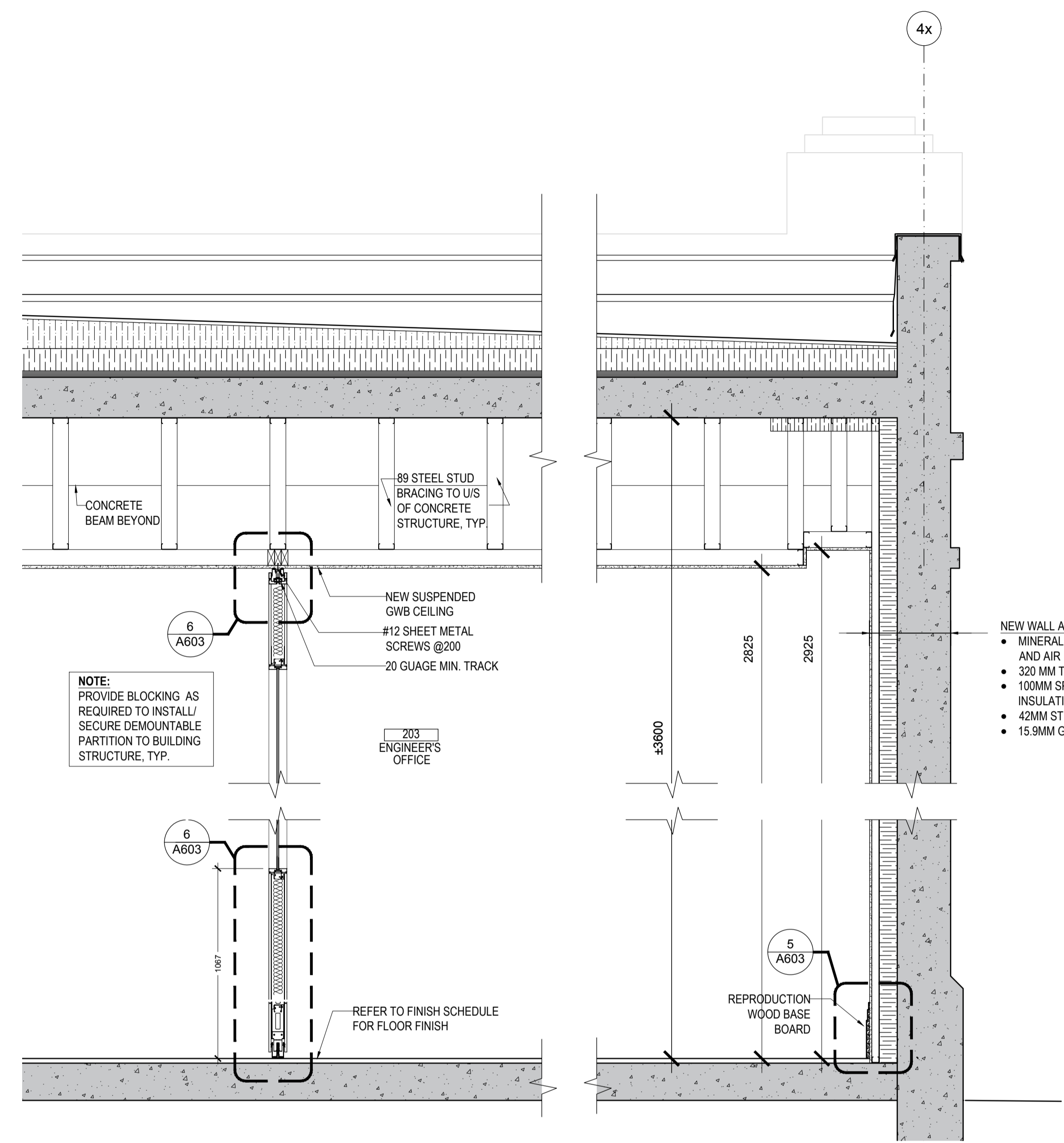
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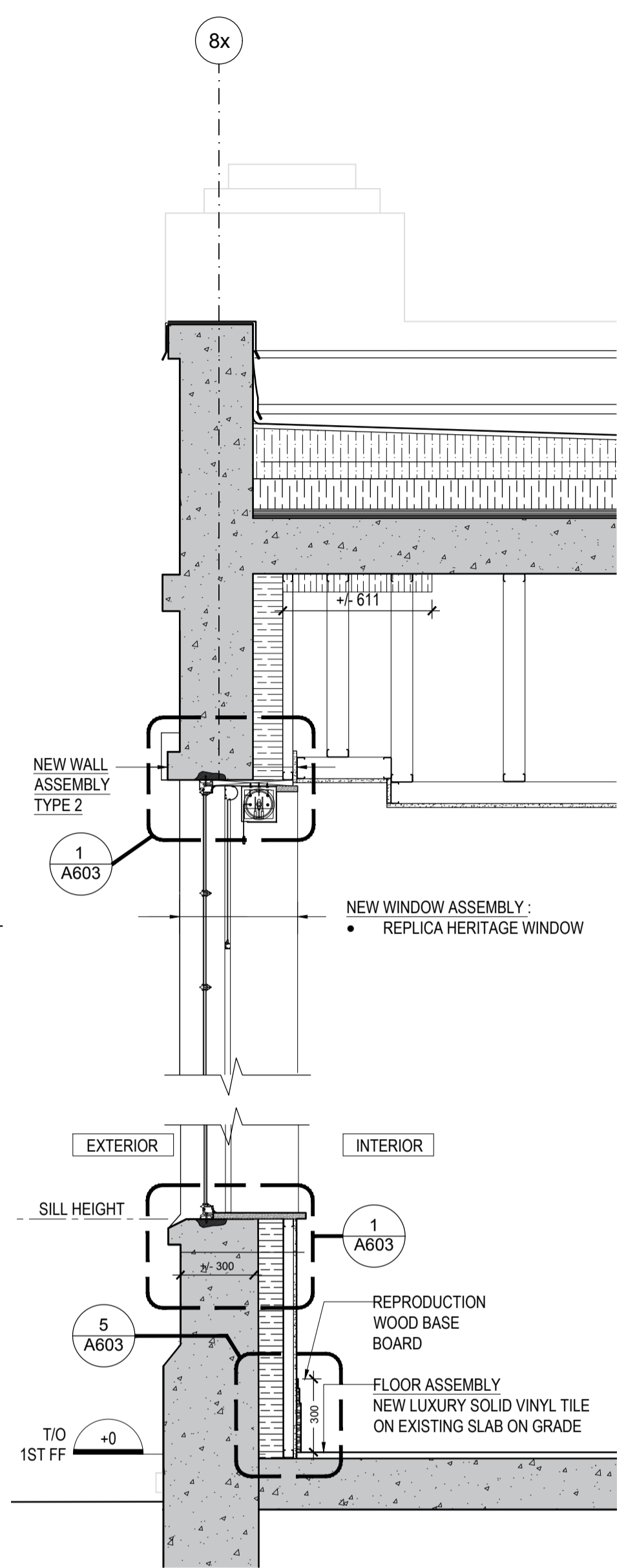
project date
date du projet **2021.07.26**

project no.
no. du projet **R.079827.001**

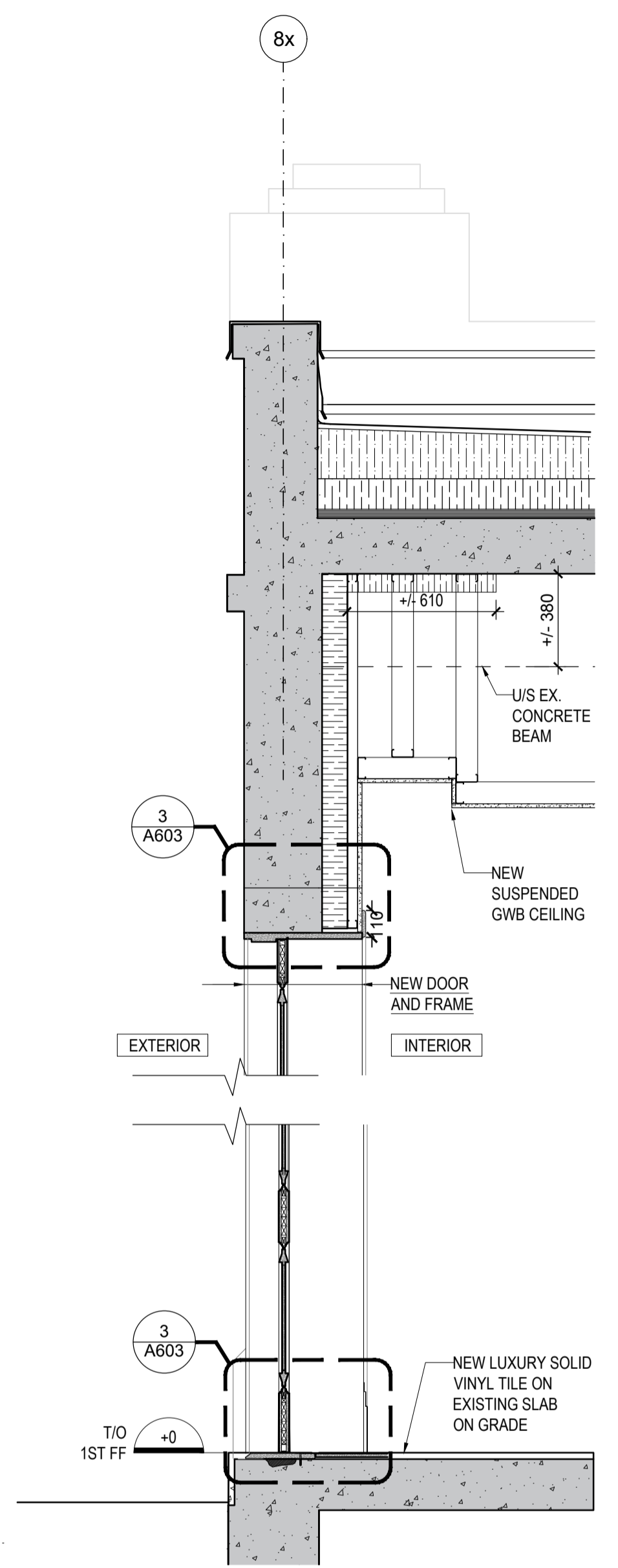
drawing no.
dessiné no. **A602**



1 SECTION AT DEMOUNTABLE PARTITION
A602 1:20



2 WALL SECTION AT WINDOW
A602 1:20

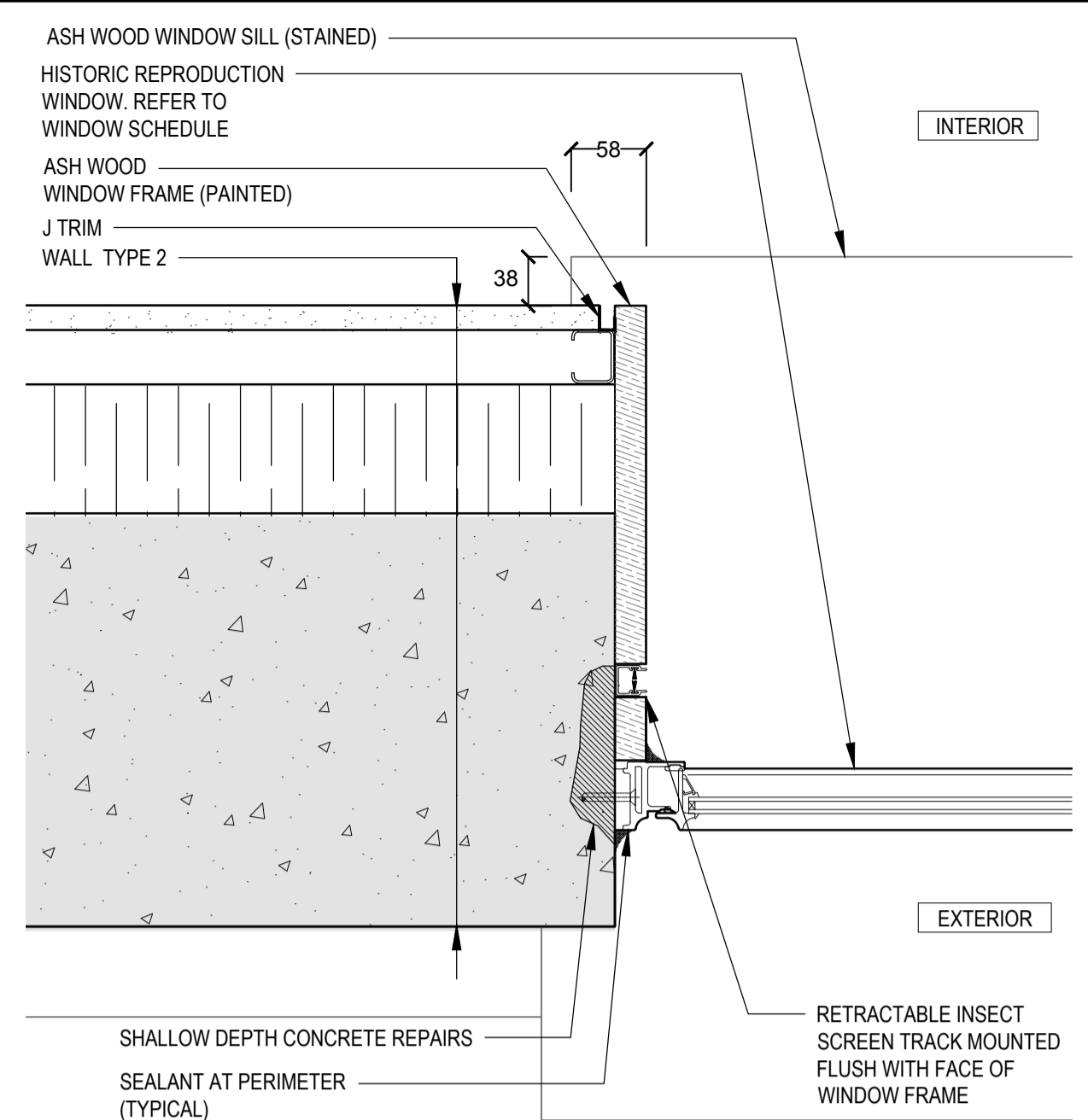
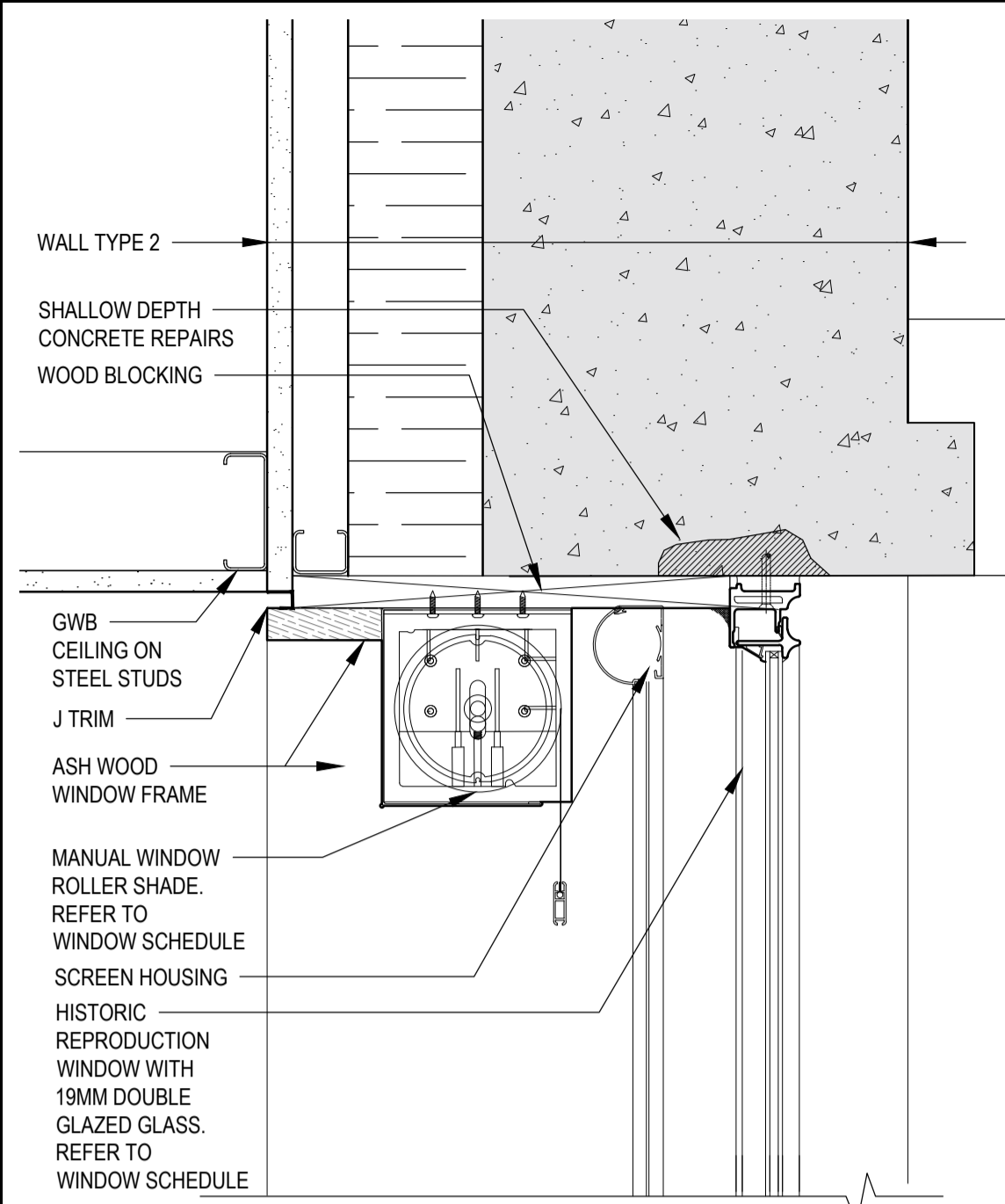


3 WALL SECTION AT DOOR
A602 1:20

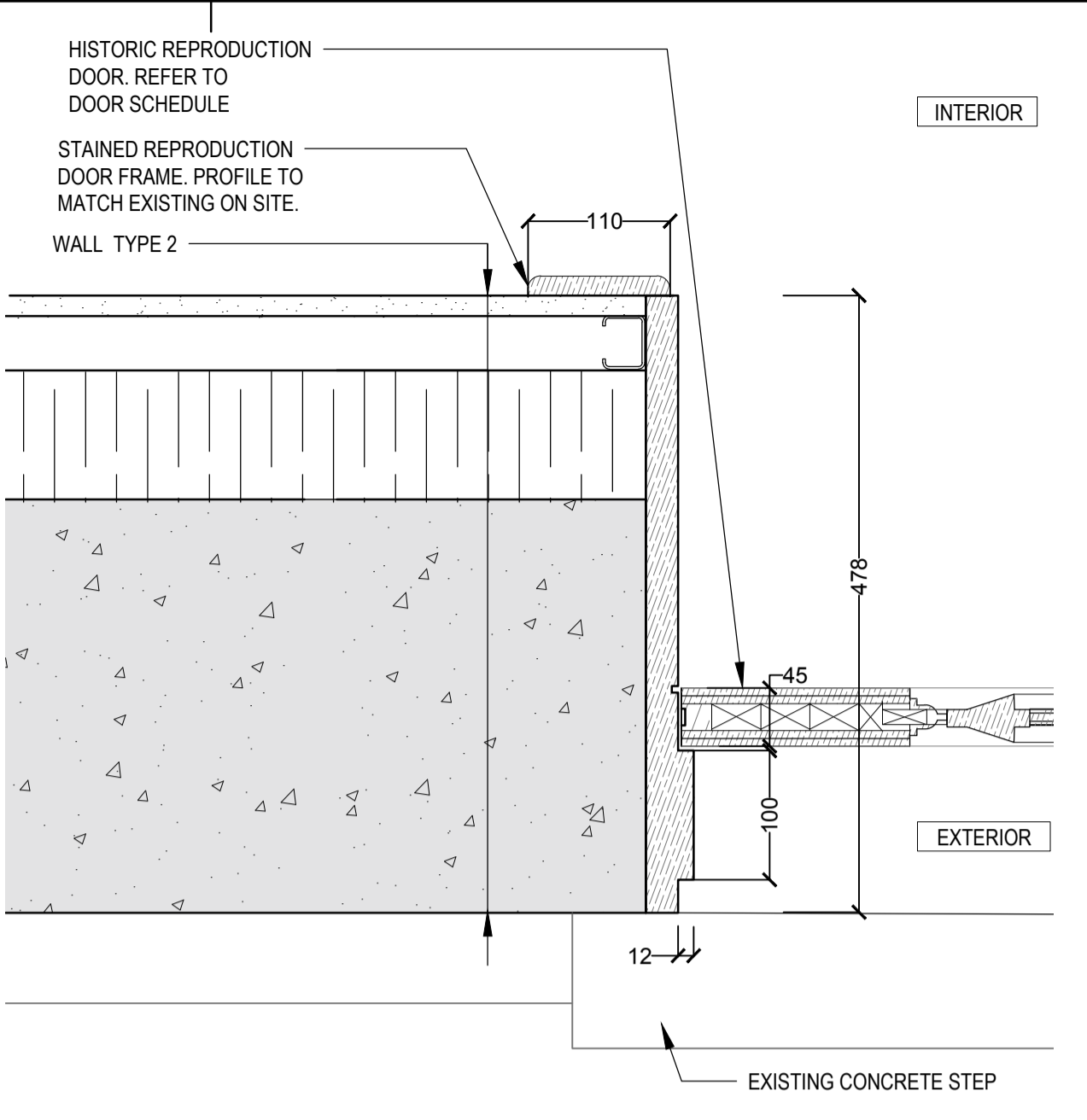
- NEW WALL ASSEMBLY TYPE 2:
- MINERAL PAINT (BREATHABLE, VAPOUR AND AIR PERMEABLE)
 - 320 MM THICK EXISTING CONCRETE WALL
 - 100MM SPRAY POLYISOCYANURATE INSULATION
 - 42MM STEEL STUD
 - 15.9MM GWB MOISTURE RESISTANT

- NEW WINDOW ASSEMBLY:
- REPLICA HERITAGE WINDOW

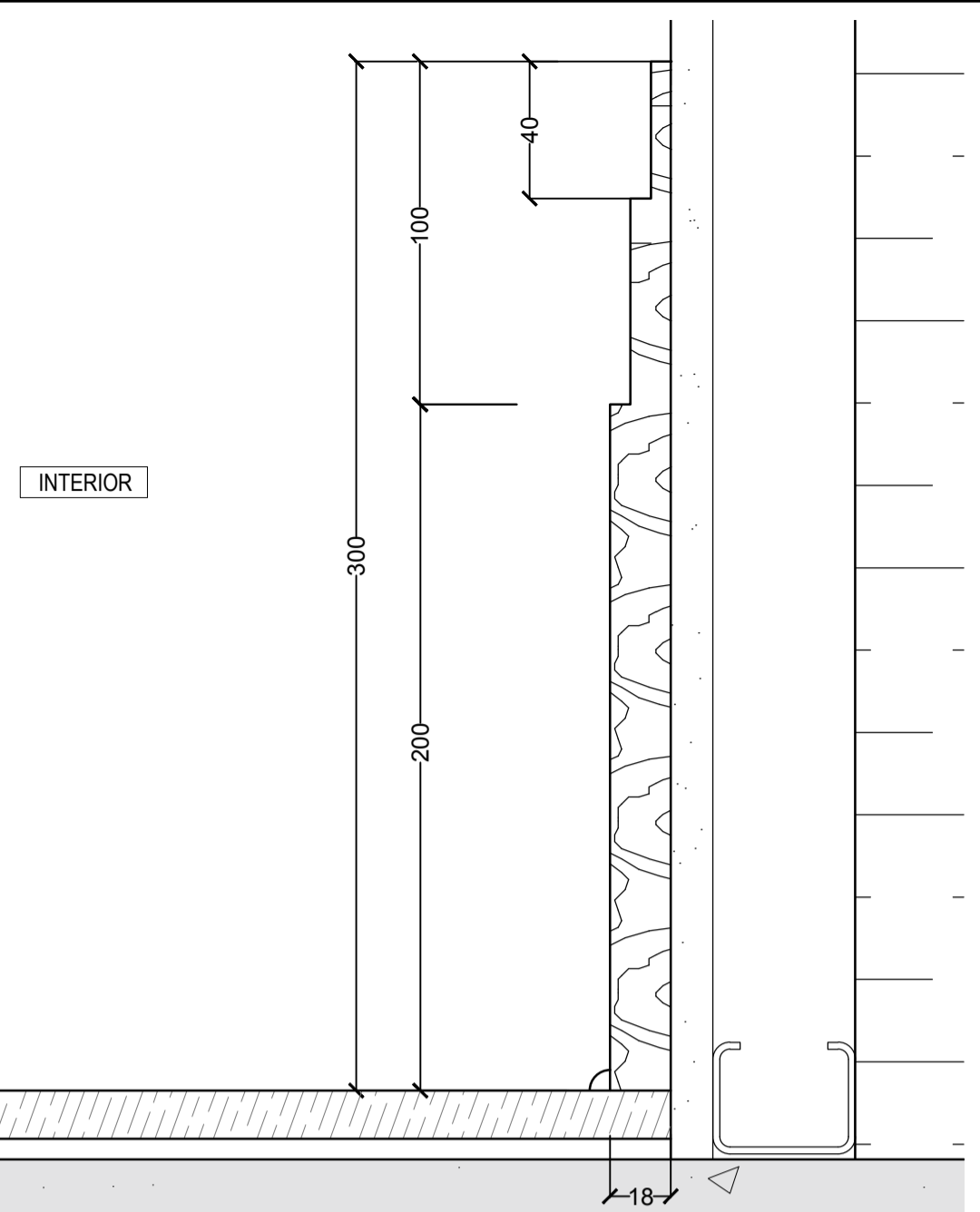
NOTE:
PROVIDE BLOCKING AS
REQUIRED TO INSTALL/
SECURE DEMOUNTABLE
PARTITION TO BUILDING
STRUCTURE, TYP.



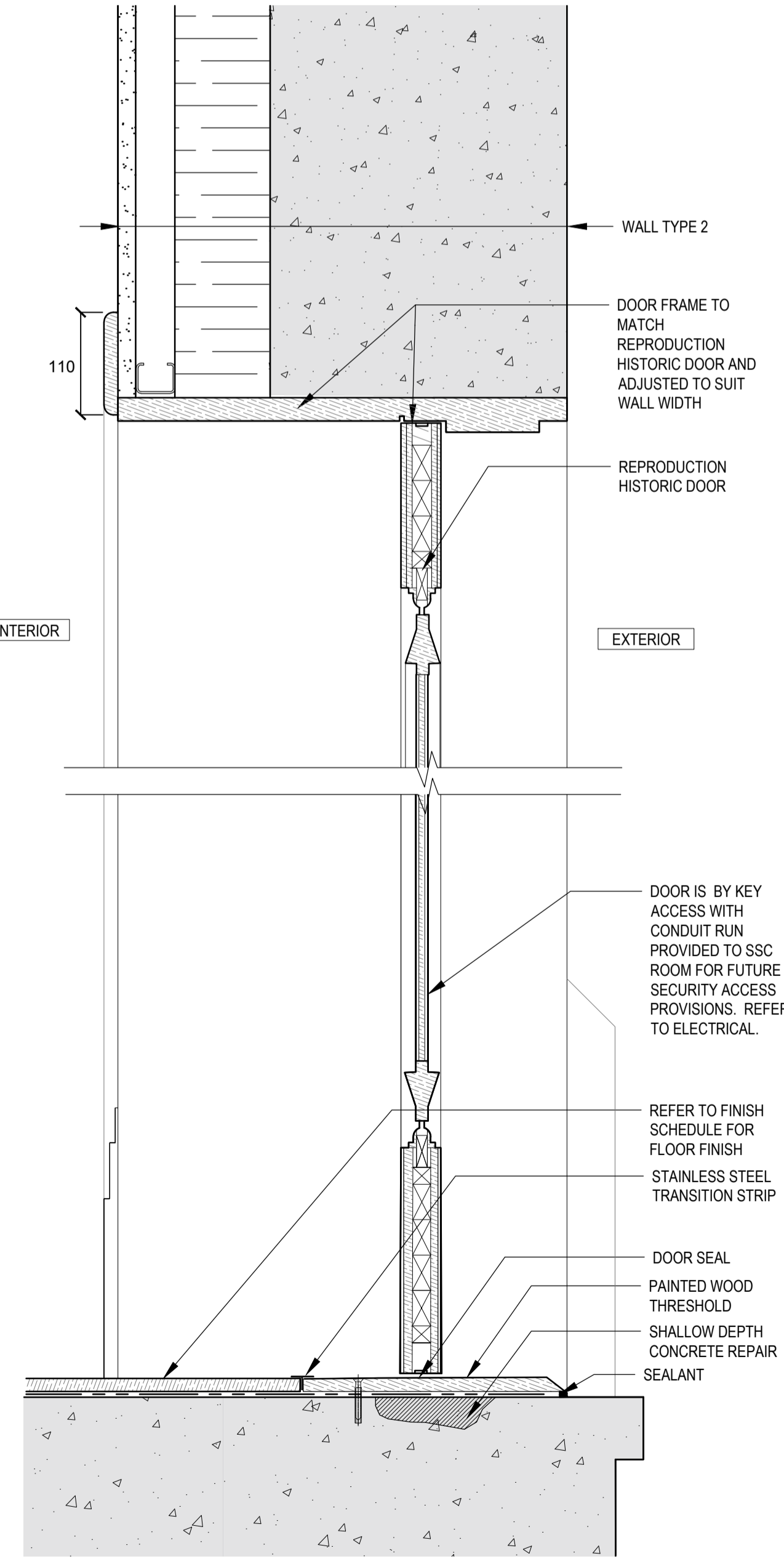
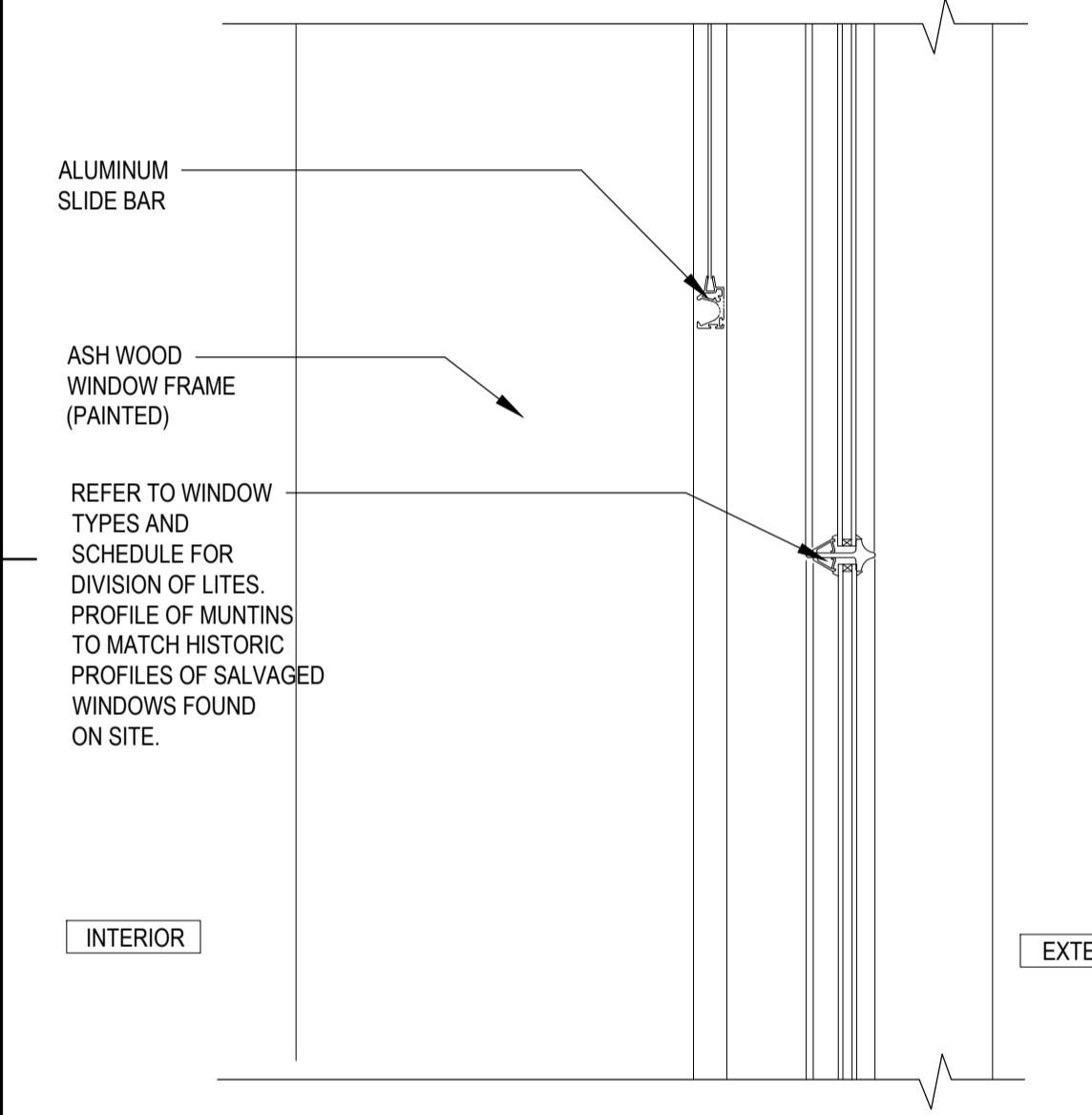
2 WINDOW JAMB DETAIL
A603 1:5



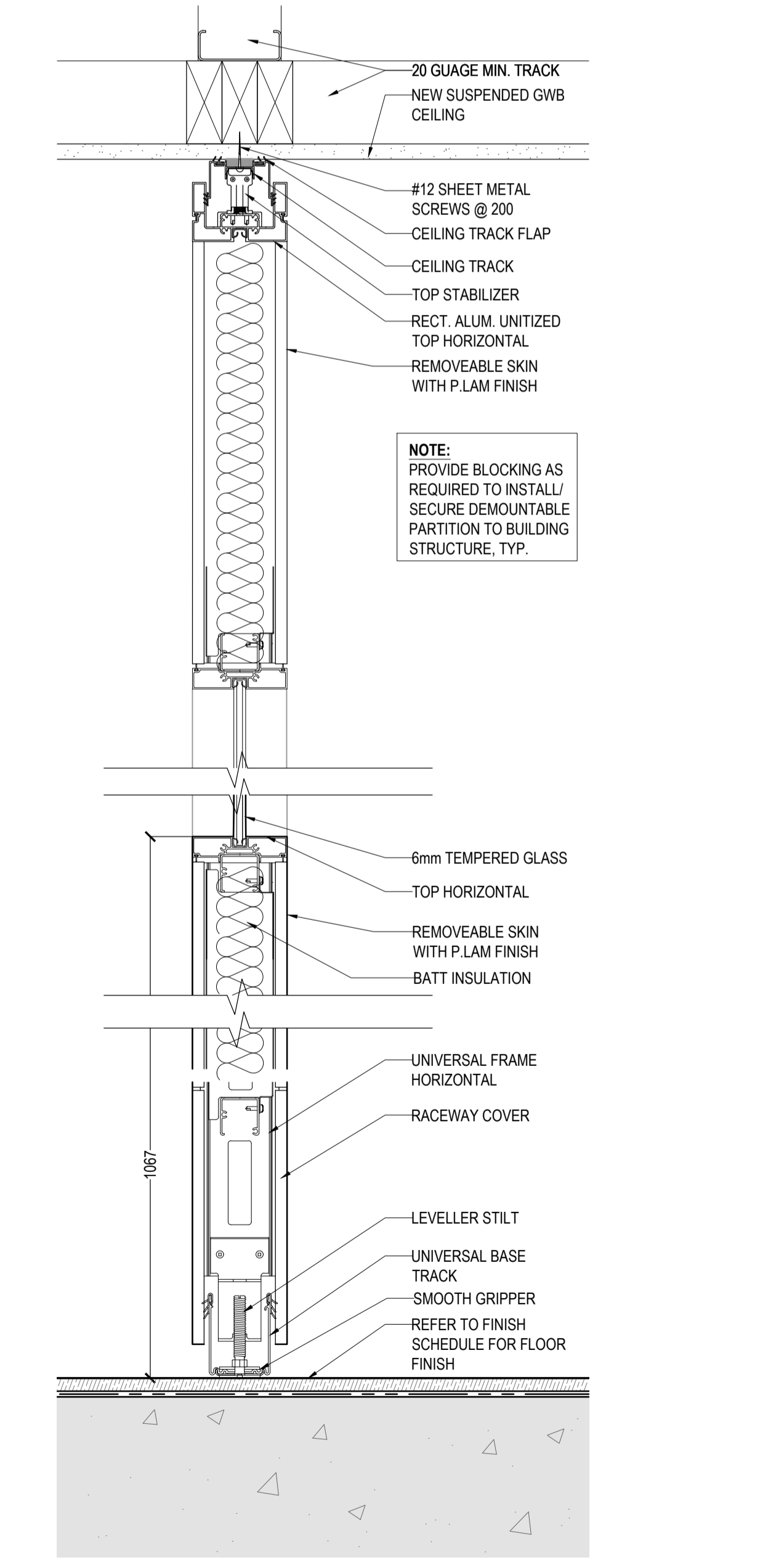
4 DOOR JAMB DETAIL
A603 1:5



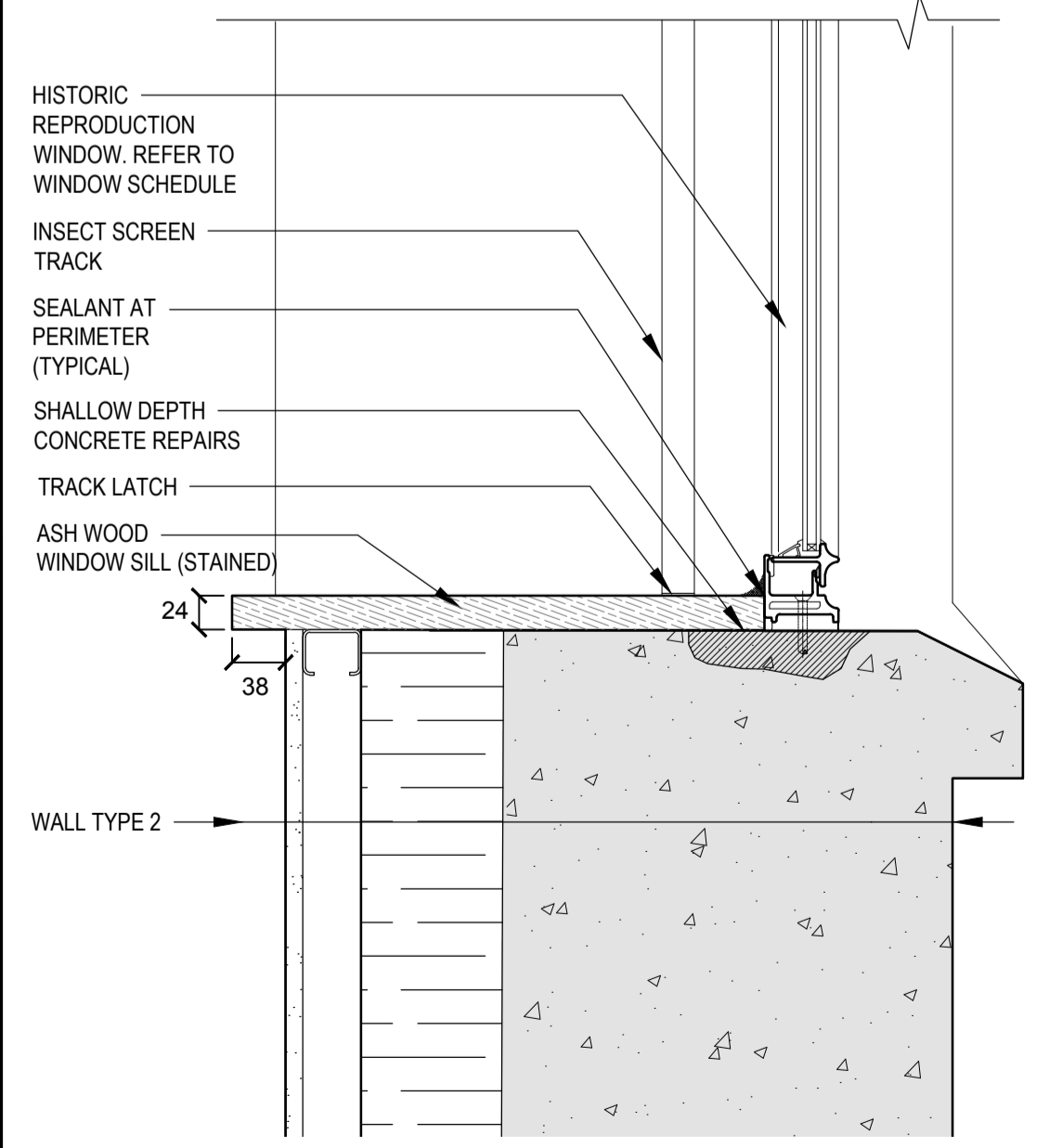
5 BASEBOARD DETAIL
A603 1:2



3 DOOR SECTION
A603 1:5



6 DEMOUNTABLE PARTITION SECTION
A603 1:5



1 WINDOW SECTION
A603 1:5

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titre du projet
PORT WELLER
SEARCH AND RESCUE STATION
ST CATHARINES
**DEMOLITION, RENOVATION,
AND NEW CONSTRUCTION**

drawing title
titre du dessin
**NEW WALL SECTION & PLAN
DETAILS -
NEW OFFICE (HISTORIC BUILDING)**

drawn by
dessiné par MO/KS

designed by
conçu par CHu

approved by
approuvé par JT

bid
offre KG project manager
administrateur de projets

project date
date du projet 2021.07.26

project no.
no. du projet R.079827.001

drawing no.
dessiné no. A603

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DEPARTMENT OF FISHERIES AND OCEANS
SEARCH AND RESCUE STATION
ST CATHARINES
**DEMOLITION, RENOVATION,
AND NEW CONSTRUCTION**

drawing title
titre du dessin
**BUILDING SECTION DETAILS
CANOPY AT FRONT VESTIBULE
& DINING ROOM**

drawn by
dessiné par **MP**

designed by
conçu par **KS/MP**

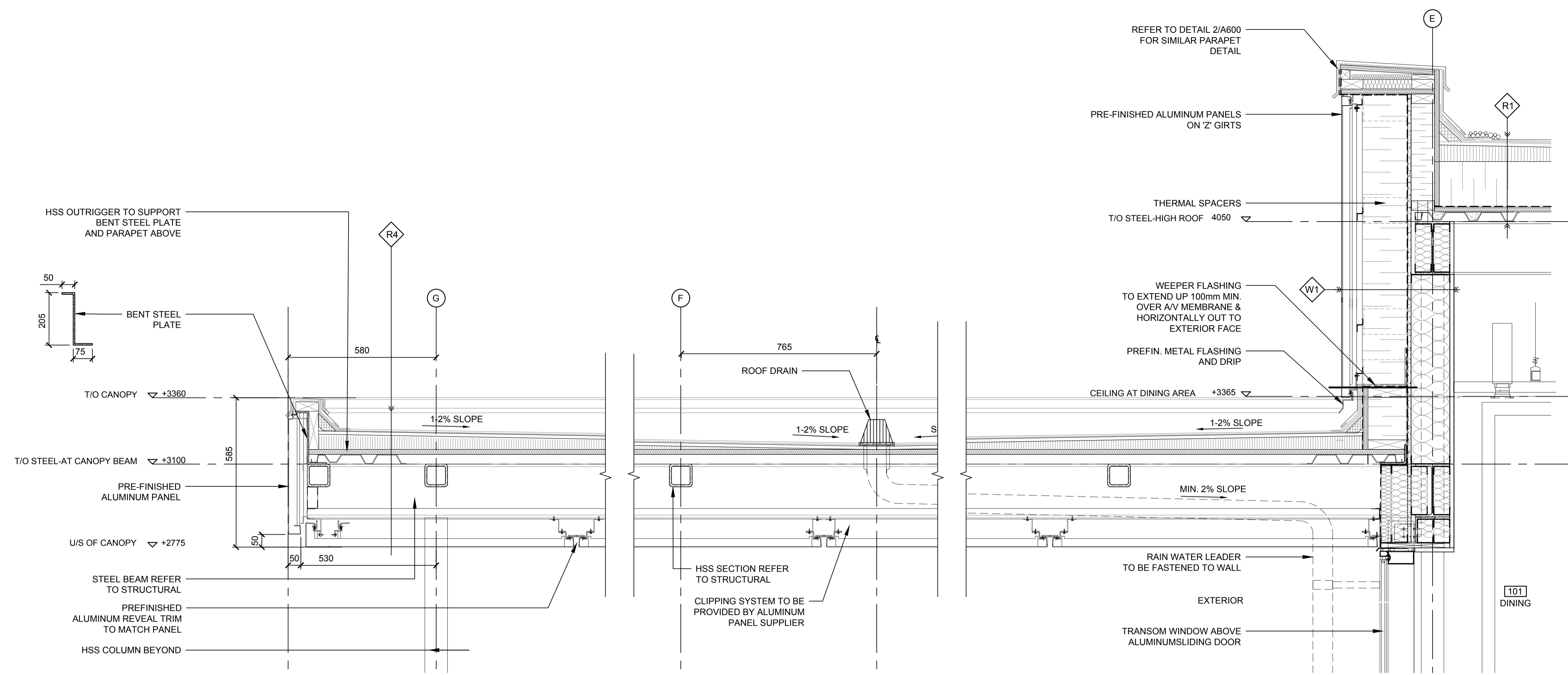
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administrateur de projets

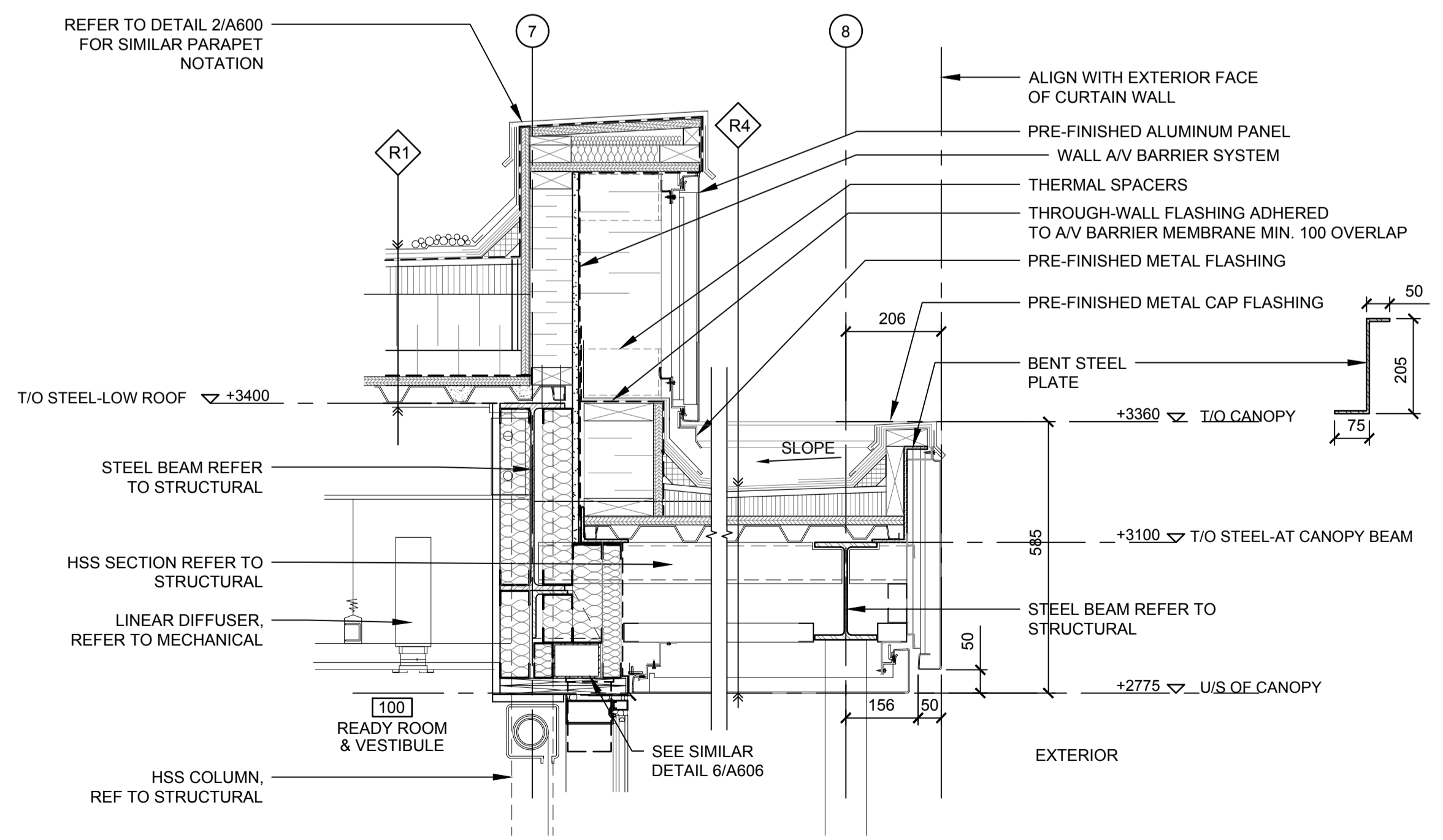
project date
date du projet **2019.11.15**

project no.
no. du projet **R.079827.001**

drawing no.
dessiné no. **A604**



2 LONGITUDINAL SECTION AT CANOPY-HIGH ROOF JUNCTION
A604 1:10



1 SECTION DETAIL AT CANOPY- LOW ROOF JUNCTION
A604 1:10

- ROOF ASSEMBLIES**
- NOTE:
1. ASSEMBLIES NOTED FROM INTERIOR TO EXTERIOR FACE.
- R1** ROOF TYPE 1 - LIVING QUARTERS, TYPICAL LOW SLOPE ROOF, 300mm MIN. (TAPERED INSULATION VARIES)
 - 38mm STEEL DECK
 - 19mm EXTERIOR GRADE PLYWOOD SHEATHING
 - AIR/VAPOUR BARRIER
 - 178mm RIGID POLYISOCYANURATE INSULATION
 - TAPERED INSULATION 2% MINIMUM (VARIES FROM 52mm MIN. TO ± 180mm TO PROVIDE SLOPE)
 - 13mm OVERLAY PROTECTION BOARD
 - BASE SHEET
 - CAP SHEET
 - R2** ROOF TYPE 2 - GARAGE/UTILITY BUILDING OVER GARAGE WORKSHOP RM. 300 (UNINSULATED)
 - STEEL TRUSS (REFER TO STRUCTURAL)
 - 19mm PLYWOOD SHEATHING
 - ROOF MEMBRANE
 - STANDING SEAM METAL ROOF
 - R3** ROOF TYPE 3 - GARAGE/UTILITY BUILDING OVER UTILITY ROOMS 301, 302, 303 (INSULATED), (MIN. RSI 2.3 + 3.3 - OBC TABLE SB 5.5-7)
 - STEEL TRUSS (REFER TO STRUCTURAL) WITH SPRAY FOAM INSULATION
 - 19mm PLYWOOD SHEATHING
 - ROOF MEMBRANE (AIR AND VAPOUR CONTROL)
 - 152mm RIGID INSULATION WITH THERMALLY BROKEN CLIPS
 - STANDING SEAM METAL ROOF
 - R4** ROOF TYPE 4 - CANOPY AT READY ROOM LINK (2 PLY MOD BIT ROOFING ON STEEL DECK, NON-INSULATED)
 - 38mm STEEL DECK ON STRUCTURAL STEEL
 - 19mm EXTERIOR GRADE SHEATHING
 - ROOF SLOPE TAPERED BOARD
 - 13mm PROTECTION BOARD
 - 2 MOD BIT ROOFING MEMBRANE SYSTEM

- EXTERIOR WALL ASSEMBLIES**
- NOTES:
1. ASSEMBLIES NOTED FROM INTERIOR TO EXTERIOR FACE.
2. CLIMATE ZONE 7 ENCLOSURE REQUIREMENTS (DUE TO AIR SOURCE HEAT PUMP-ELECTRIC HEATING)
3. GARAGE/UTILITY BUILDING: SEMI-HEATED AREAS AT ELECTRICAL RM., WATER TREATMENT RM. & WASH UP VESTIBULE ONLY.
4. GARAGE/UTILITY BUILDING: UNHEATED AREA AT MAIN GARAGE/WORKSHOP.
- W1** WALL TYPE 1 - LIVING QUARTERS, 441mm
 - 15.9mm GYPSUM WALL BOARD
 - 152mm STRUCTURAL STEEL STUD
 - 13mm EXTERIOR GYPSUM SHEATHING
 - AIR AND VAPOUR CONTROL MEMBRANE
 - THERMAL SPACERS WITH 175mm SEMI-RIGID MINERAL FIBRE INSULATION
 - 25mm AIR SPACE / Z-GIRT
 - 60mm PREFINISHED ALUMINUM PANEL SYSTEM

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AND NEW CONSTRUCTION**

drawing title / titre du dessin
**PLAN & SECTION DETAILS
AT EX. & NEW BUILDING
JUNCTION**

drawn by / dessiné par BL

designed by / conçu par KS/BL

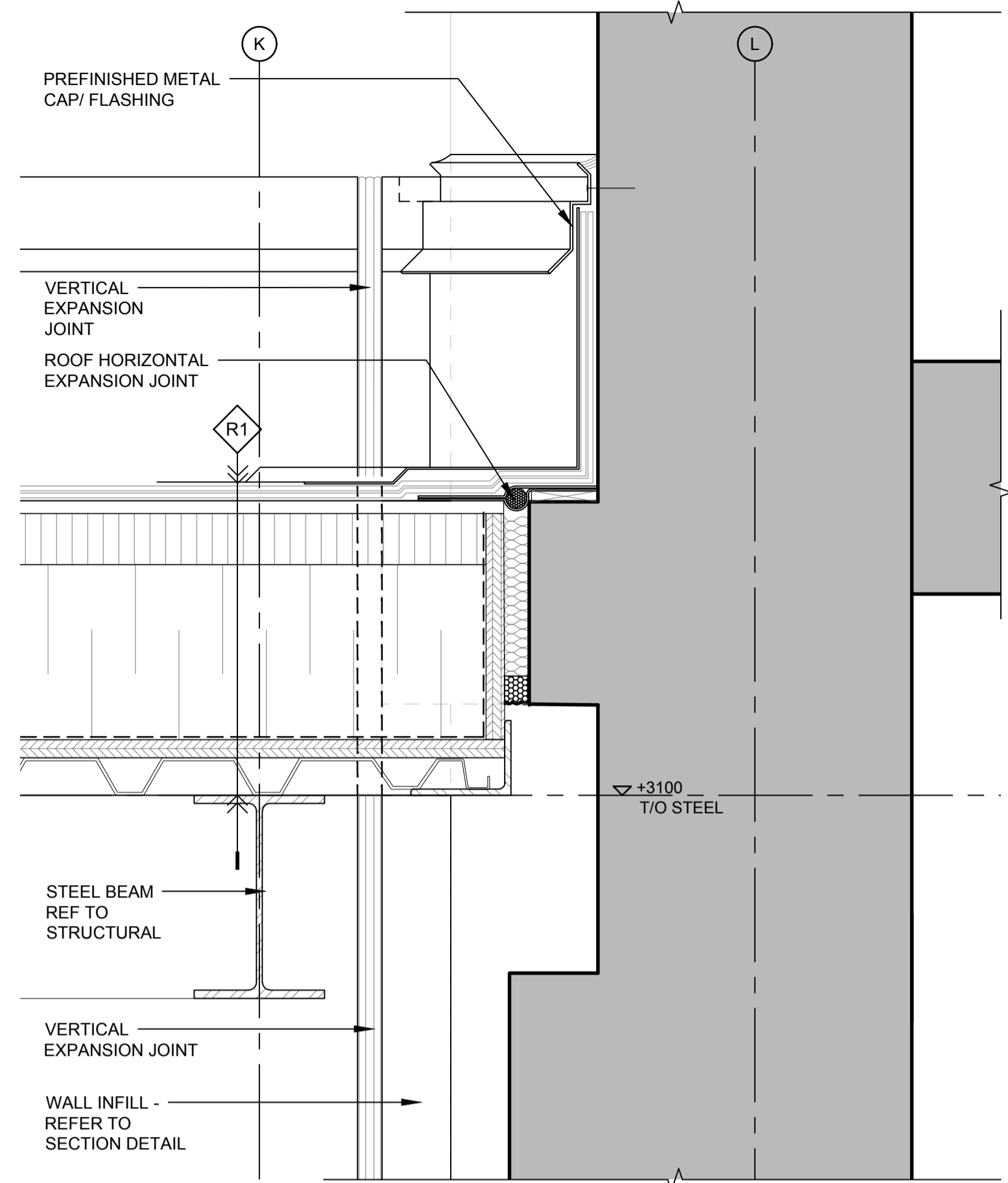
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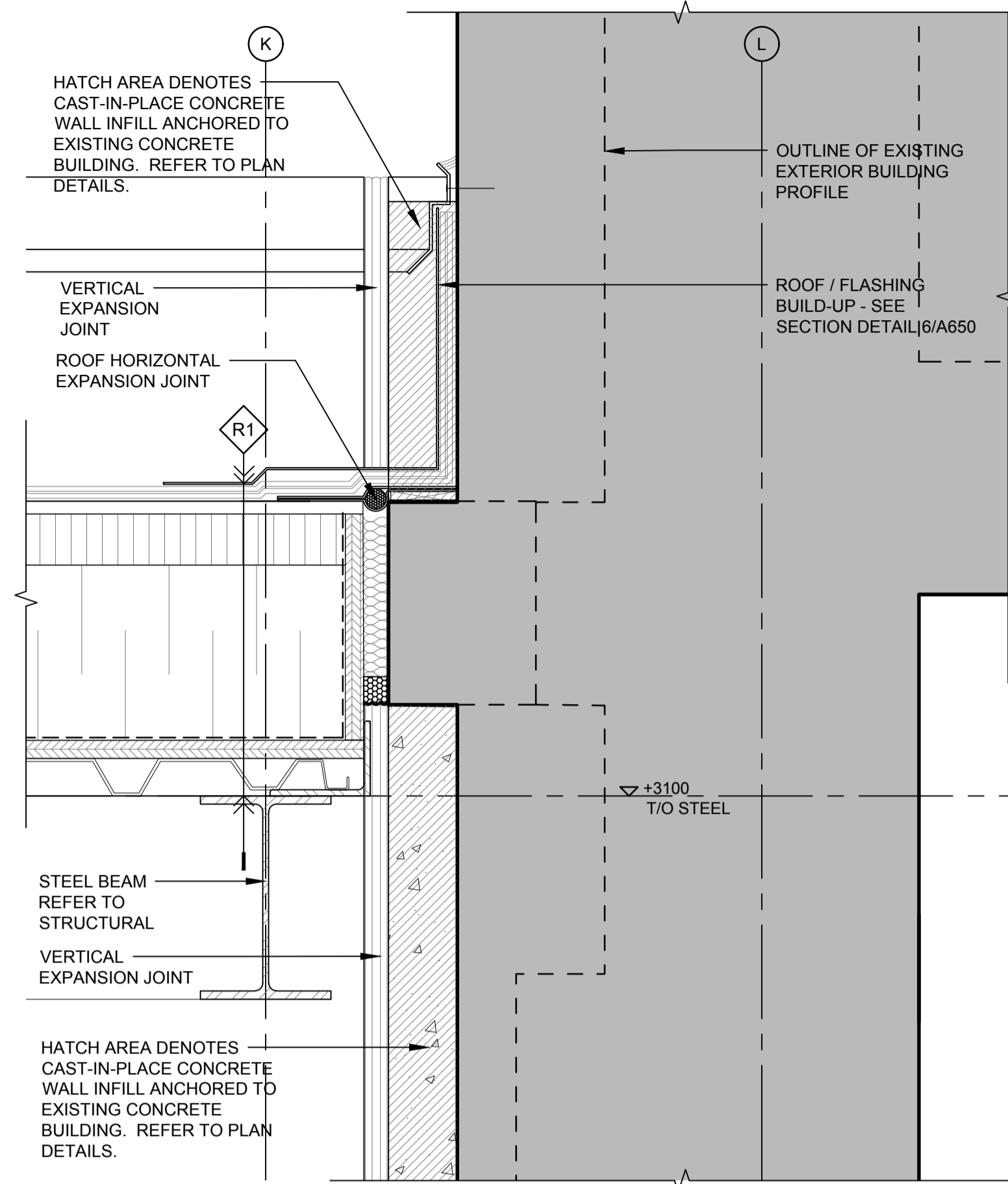
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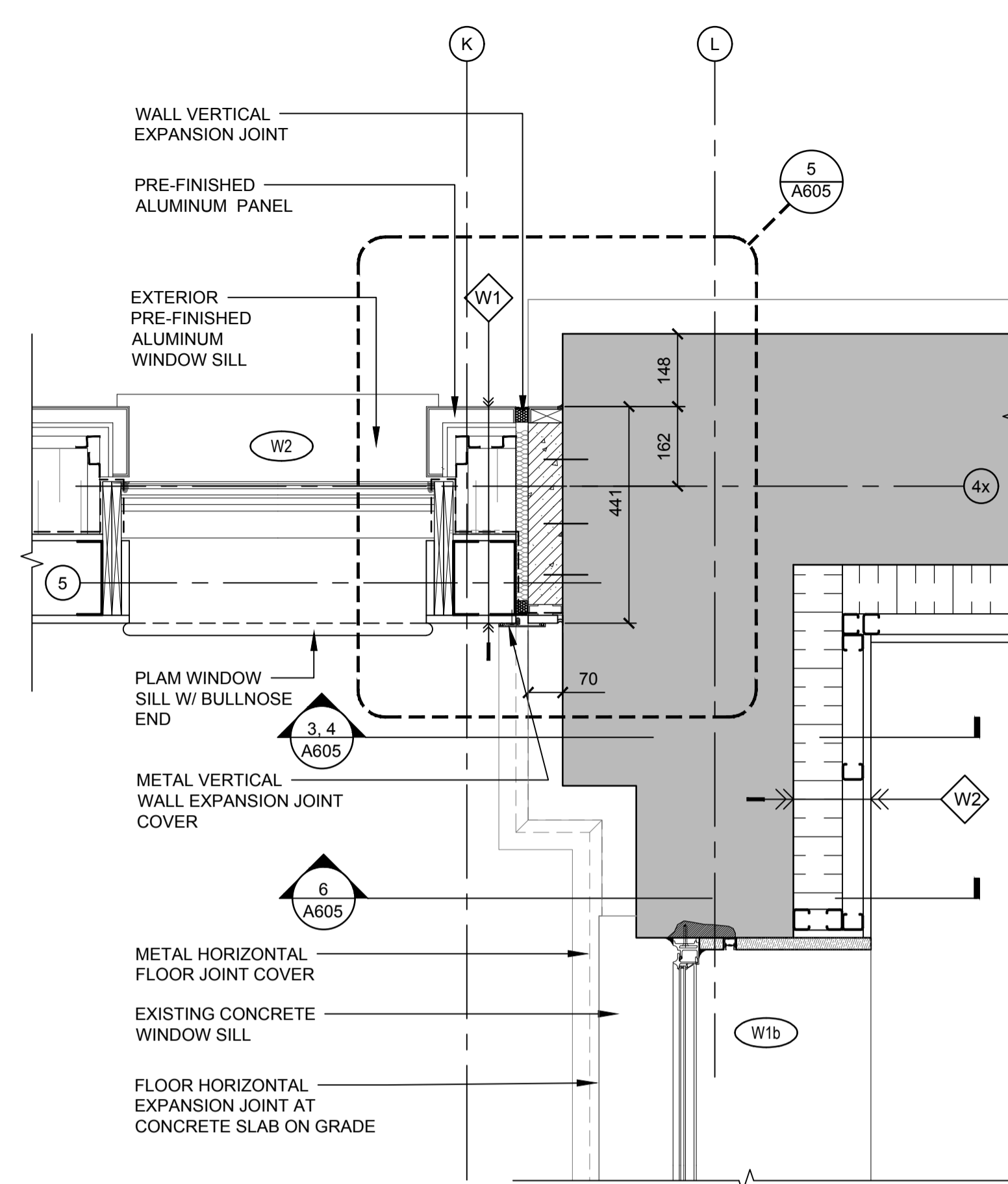
drawing no. / dessiné no. A605



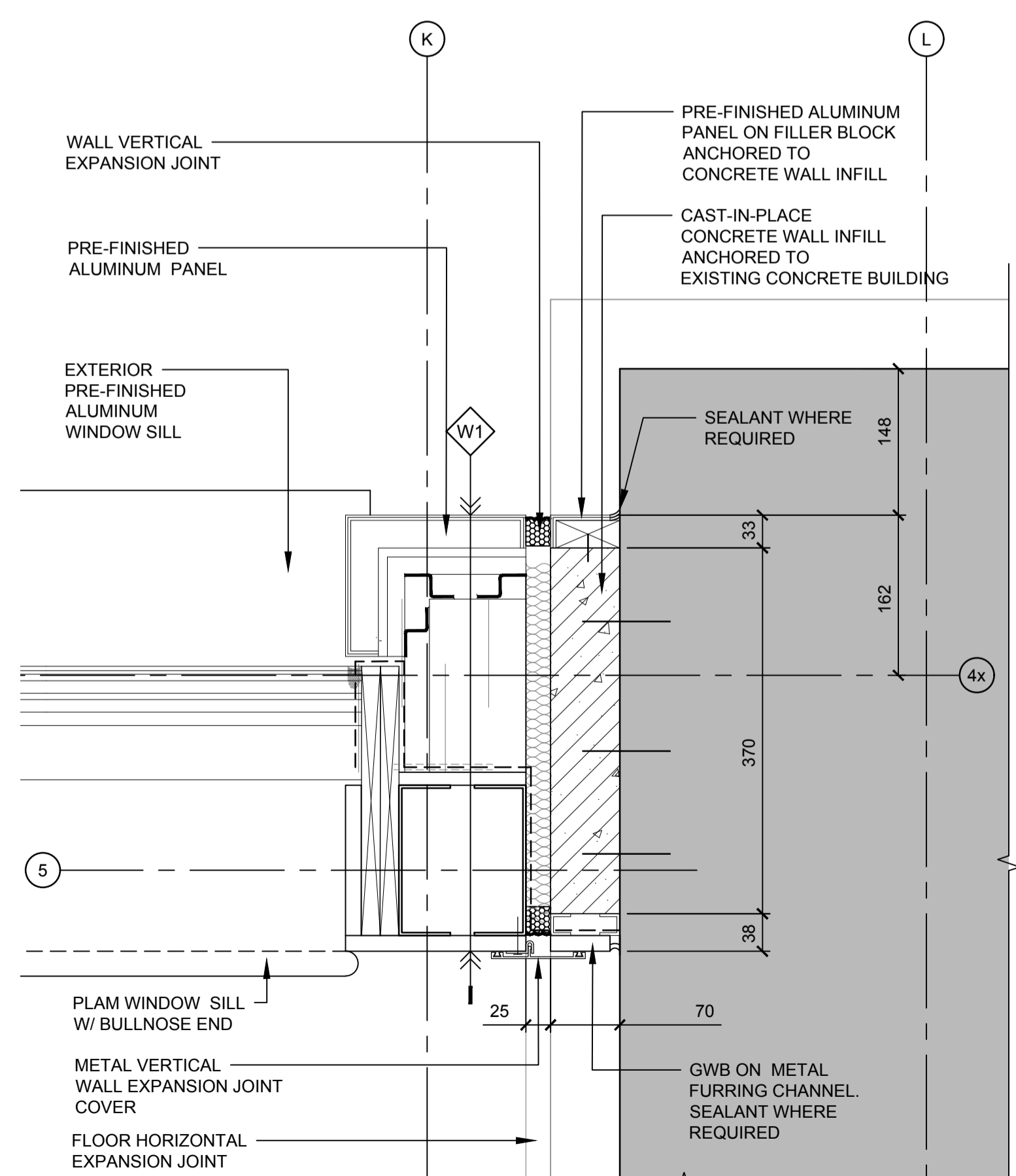
6 SECTION DETAIL
A605 1:5



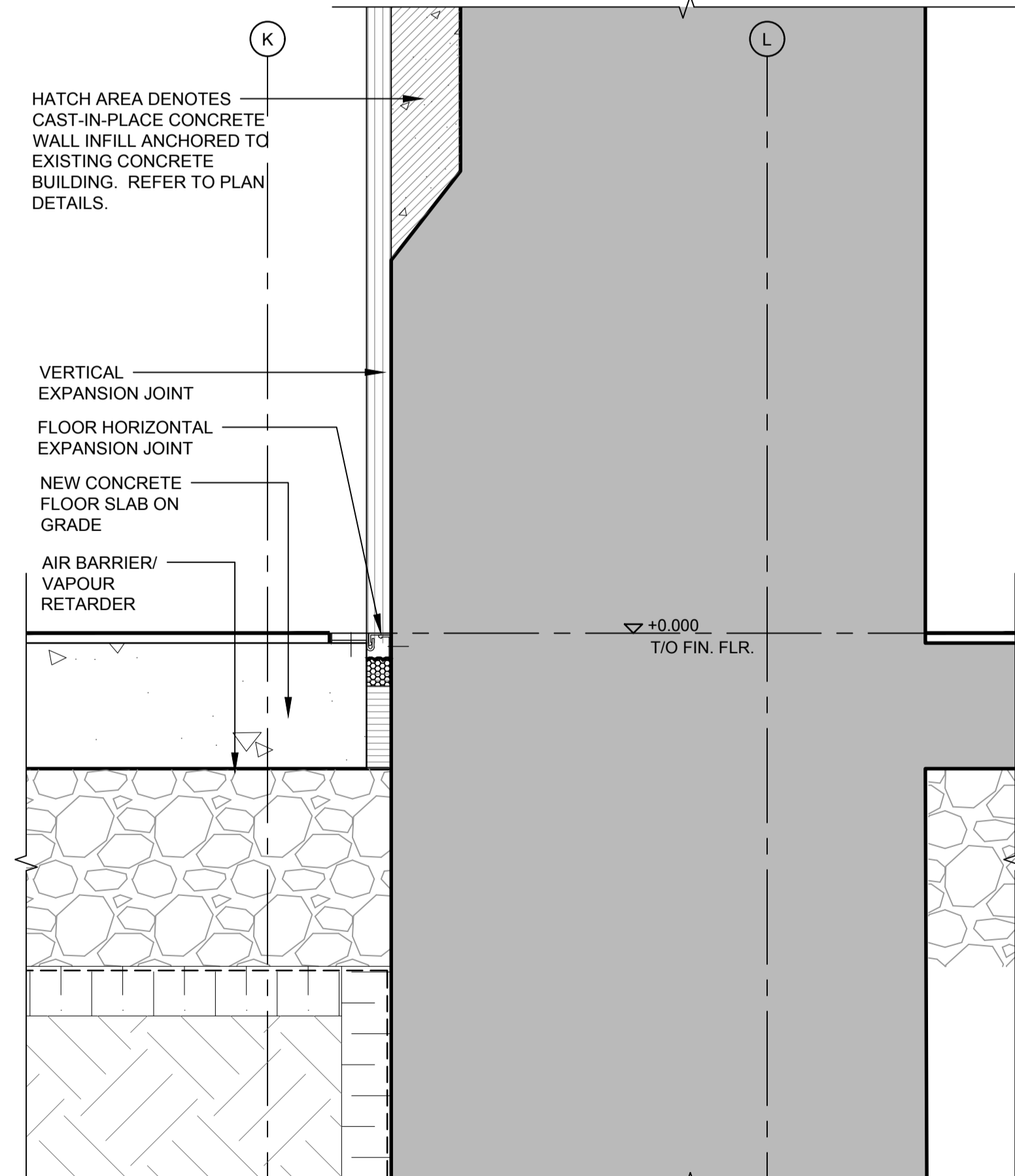
4 SECTION DETAIL
A605 1:5



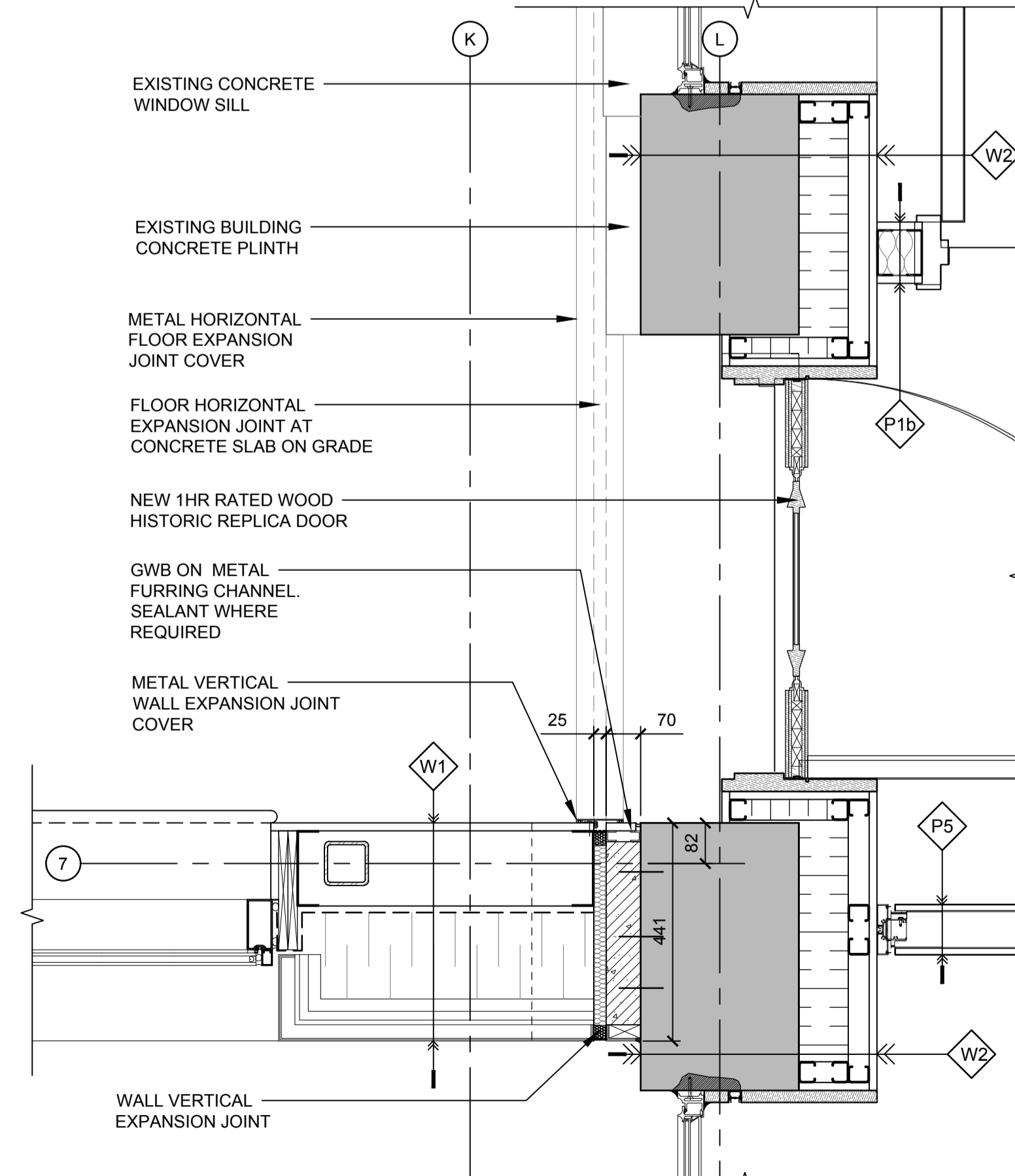
2 PLAN DETAIL
A605 1:10



5 PLAN DETAIL
A605 1:5



3 SECTION DETAIL
A605 1:5



1 PLAN DETAIL
A605 1:10

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ST CATHARINES
**DEMOLITION, RENOVATION,
AND NEW CONSTRUCTION**

drawing title
titre du dessin
**PLAN & SECTION DETAILS
AT CURTAIN WALL
NEW LIVING QUARTERS**

drawn by
dessiné par BL

designed by
conçue par KS/BL

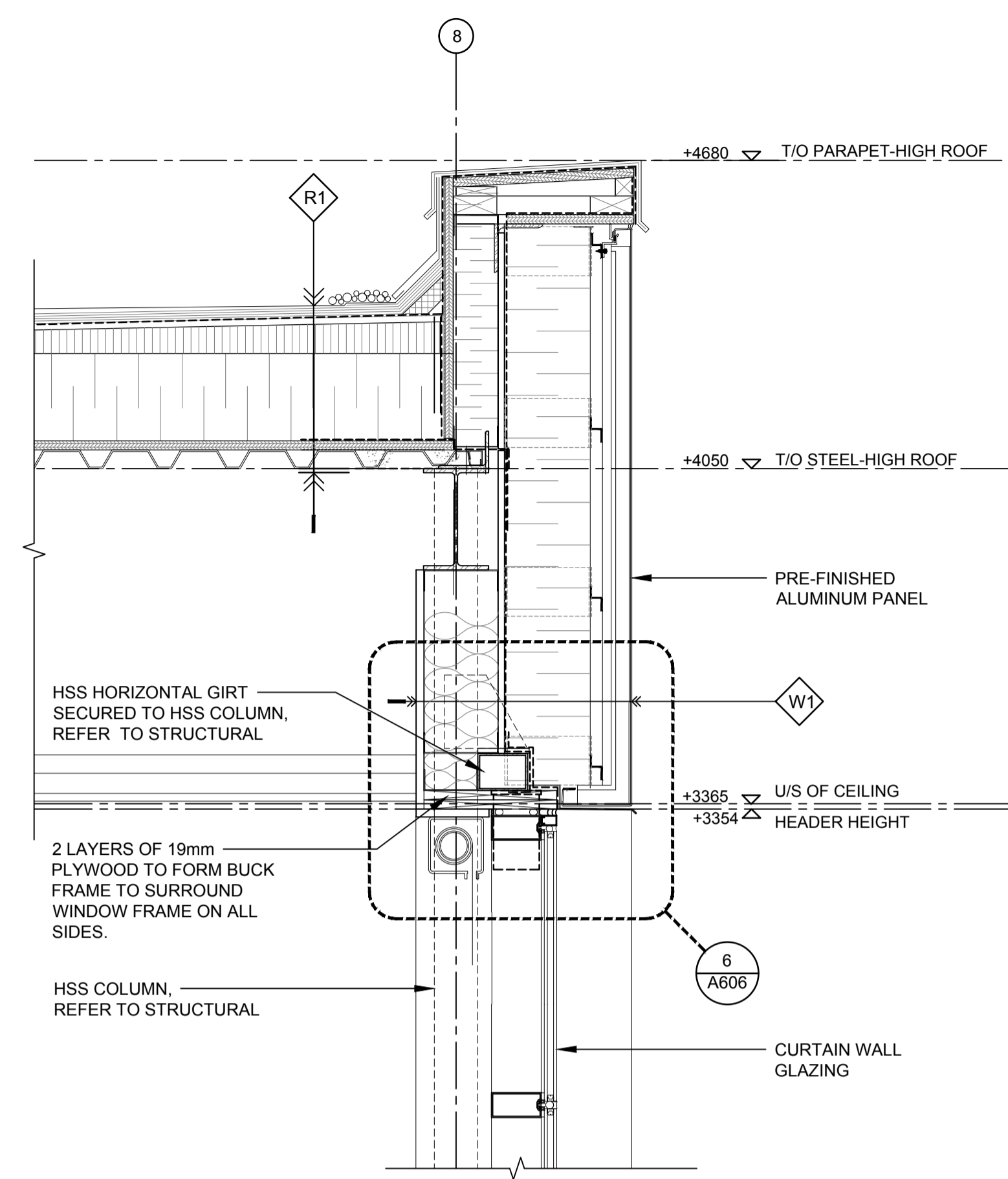
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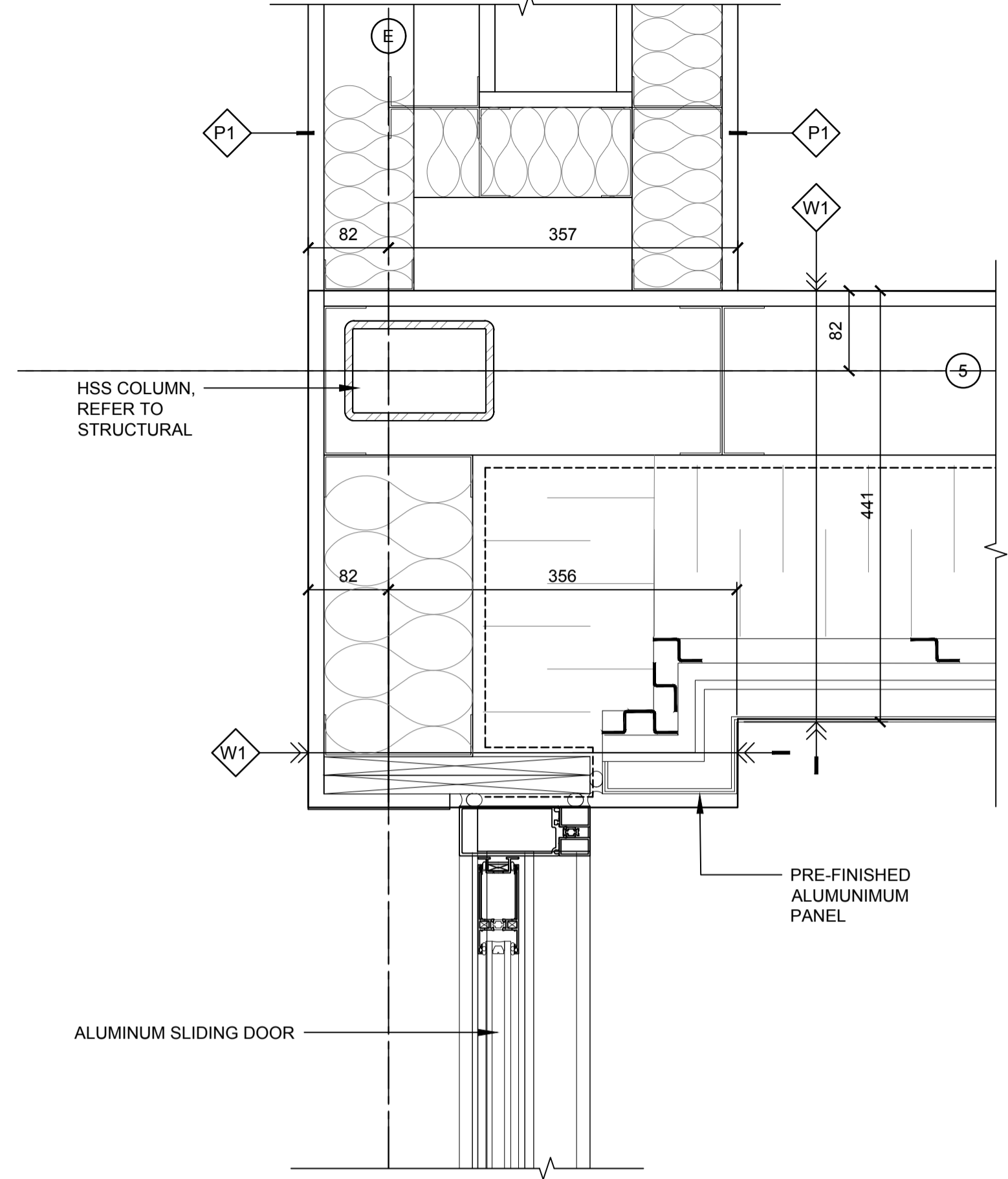
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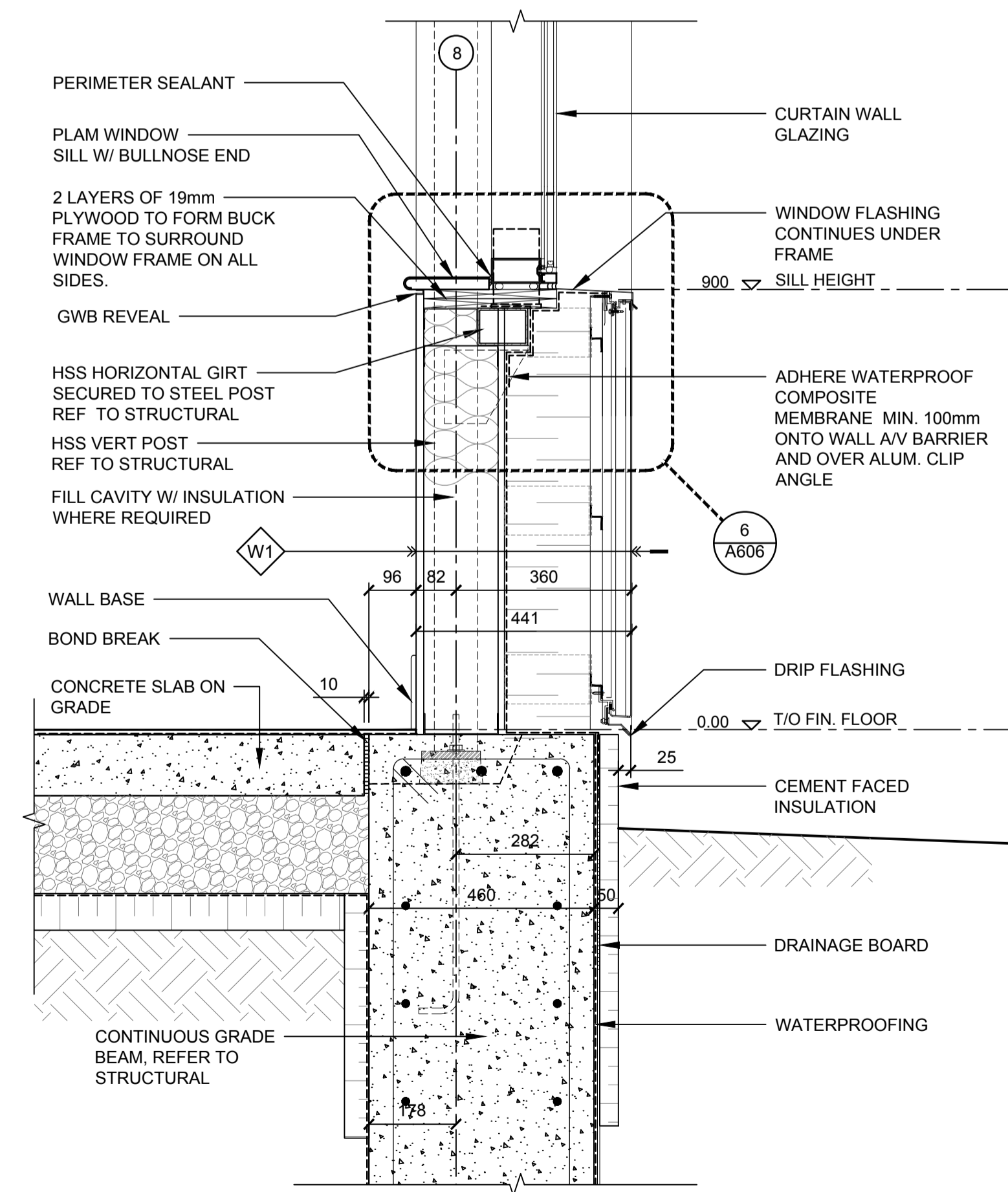
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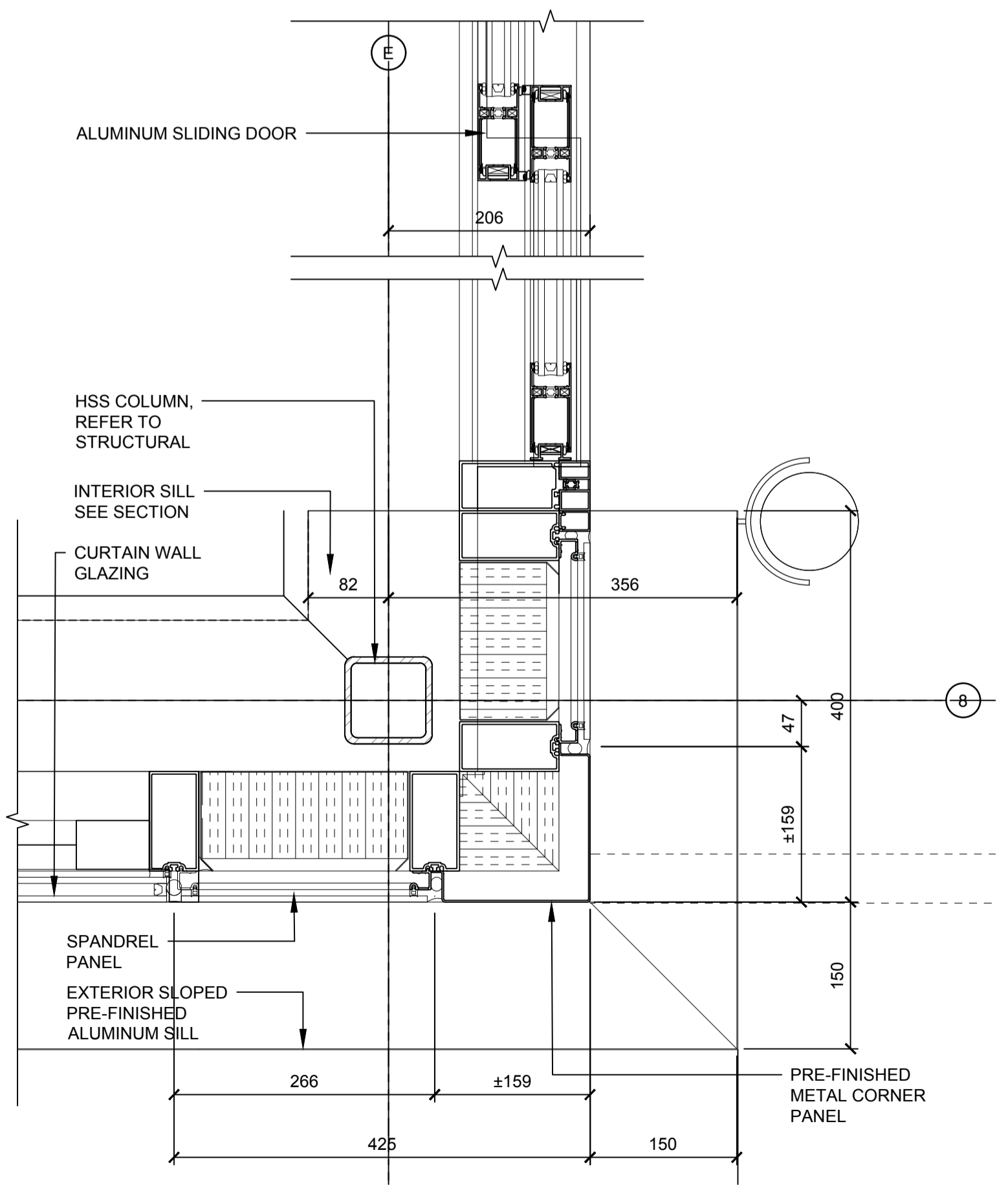
2 SECTION DETAIL
A606 1:10



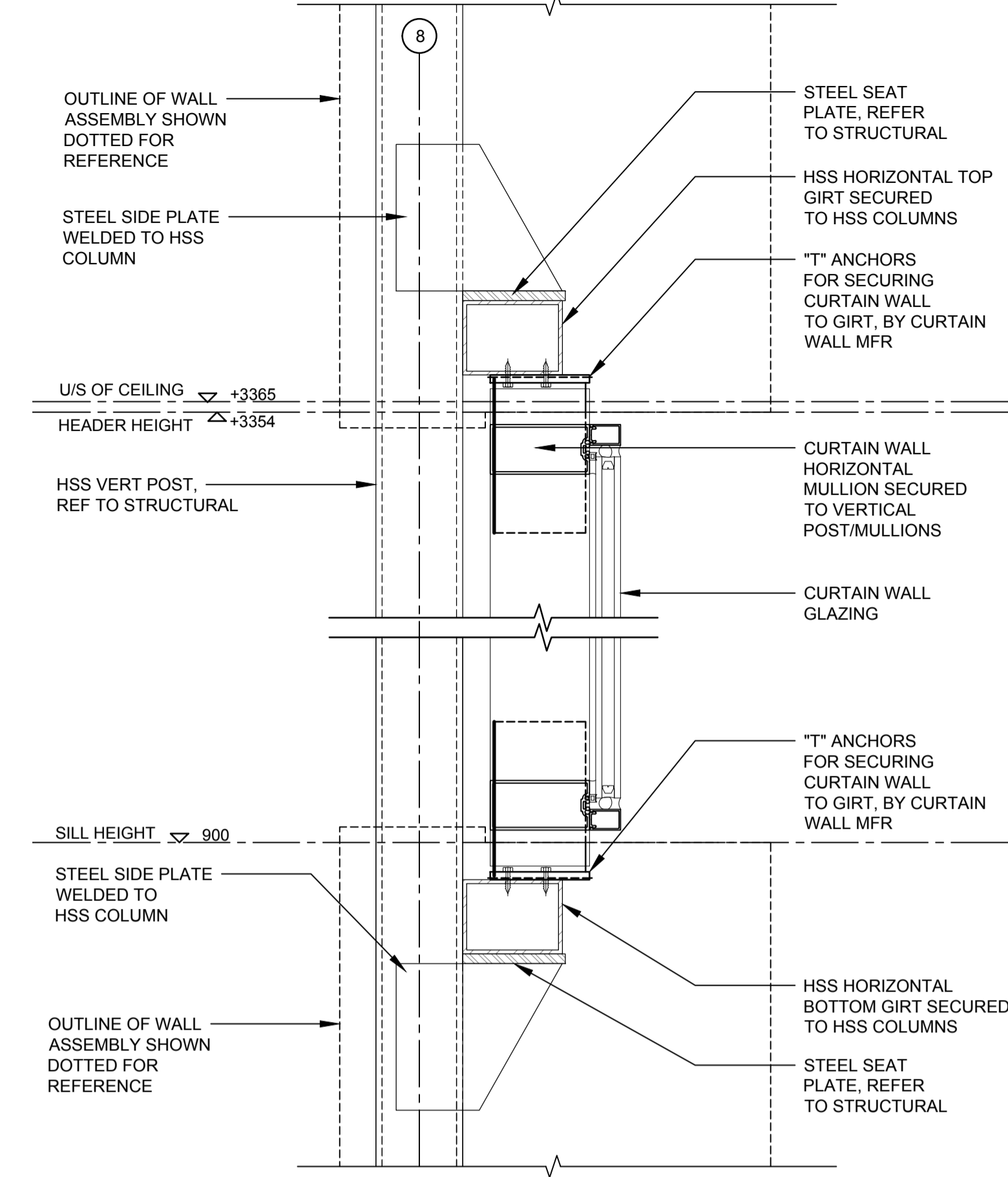
4 PLAN DETAIL
A606 1:5



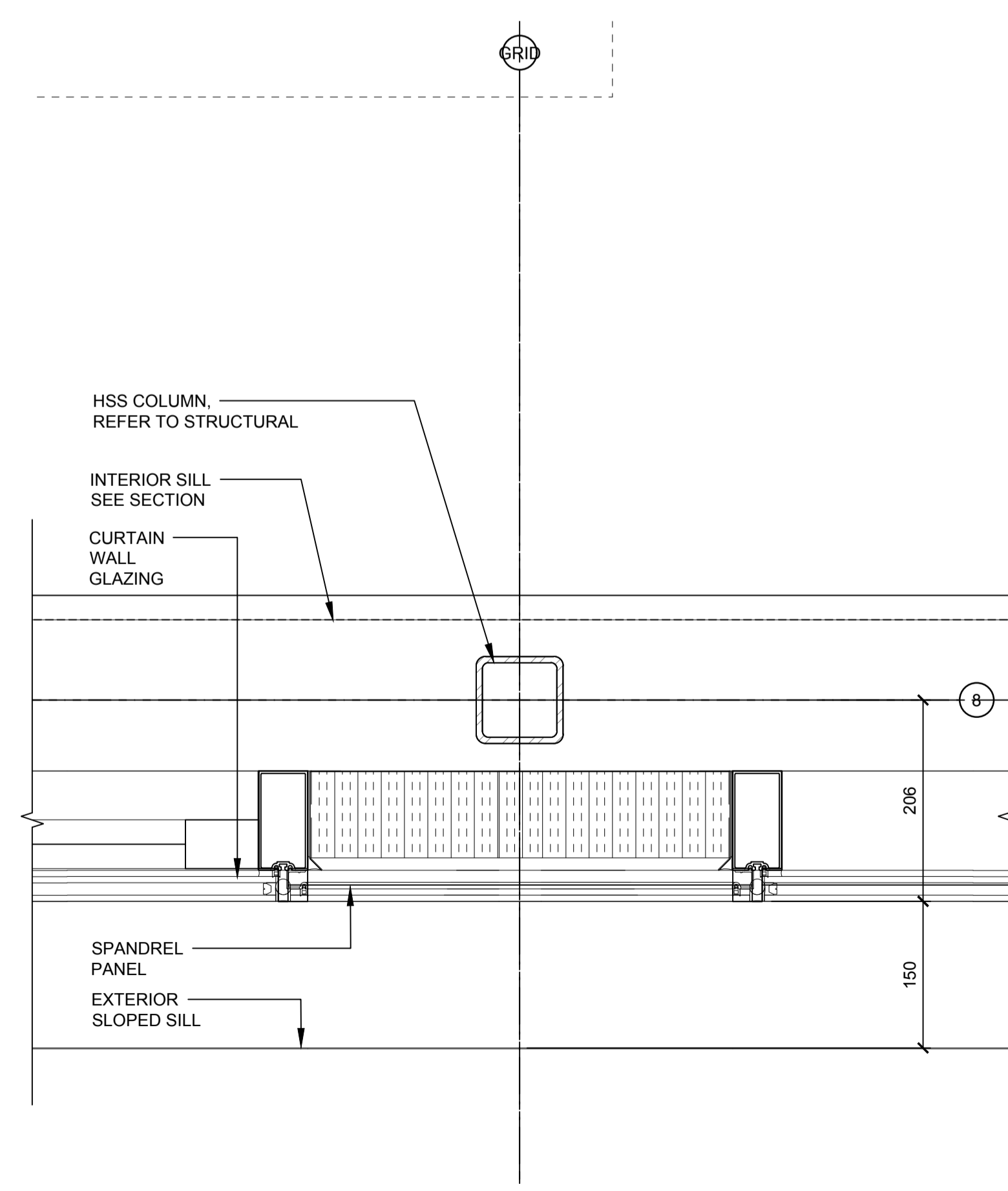
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A606 1:10



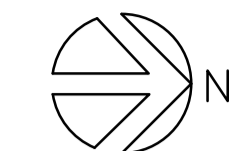
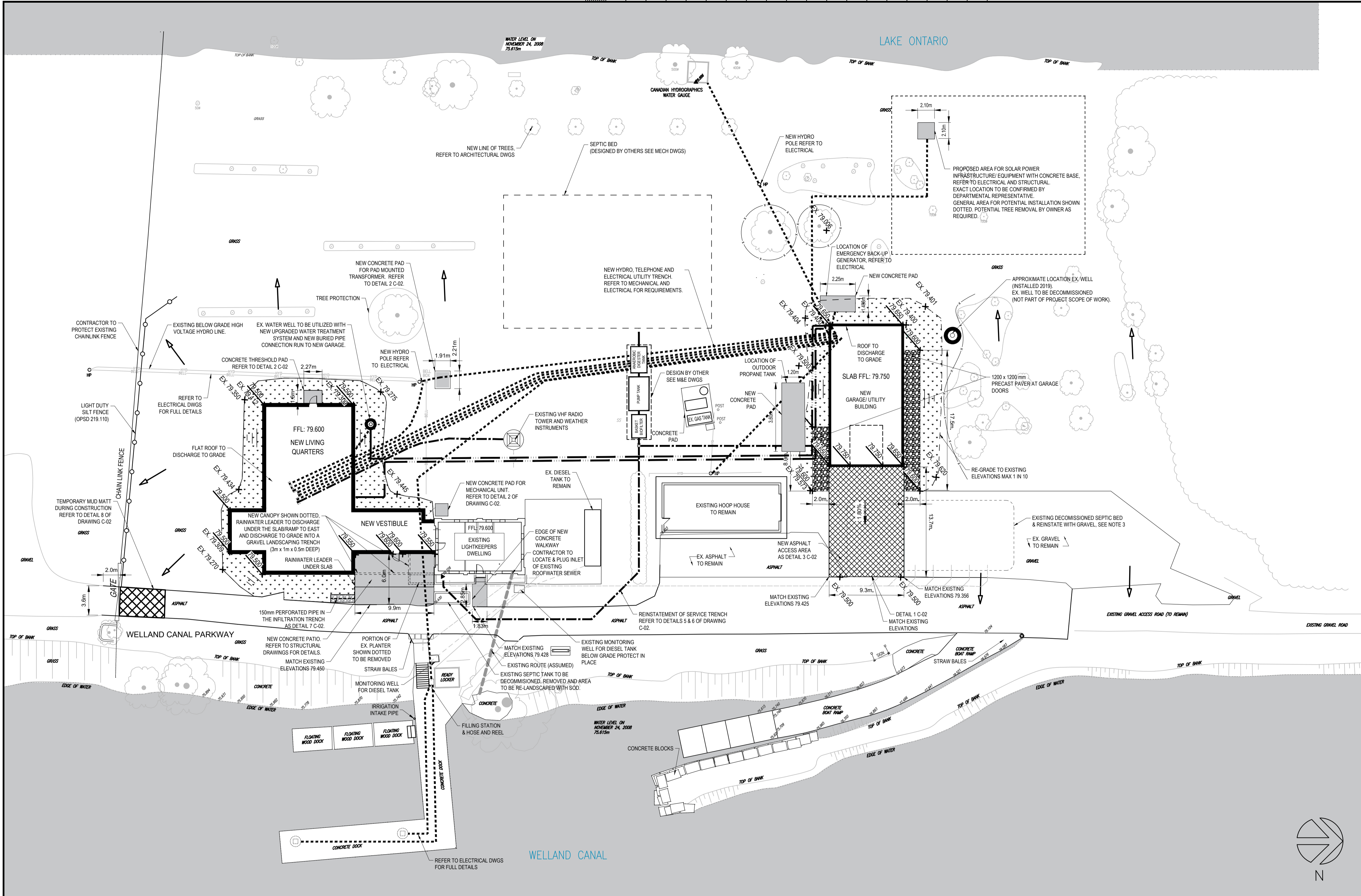
3 PLAN DETAIL
A606 1:5



6 SECTION DETAIL
A606 1:5



5 PLAN DETAIL
A606 1:5



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ST. CATHARINES
**DEMOLITION, RENOVATION,
AND NEW CONSTRUCTION**

drawing title
titre du dessin
CIVILS PLAN

| | | |
|--------------------------------|--------------|---|
| drawn by dessiné par | RM | |
| designed by conçu par | DR | |
| approved by approuvé par | KB | |
| bid offre | KG | project manager administrateur de projets |
| project date date du projet | 2021.07.26 | |
| project no. no. du projet | R.079827.001 | |
| drawing no. dessiné no. | CIVILS C-01 | |

CIVILS - NEW CONSTRUCTION

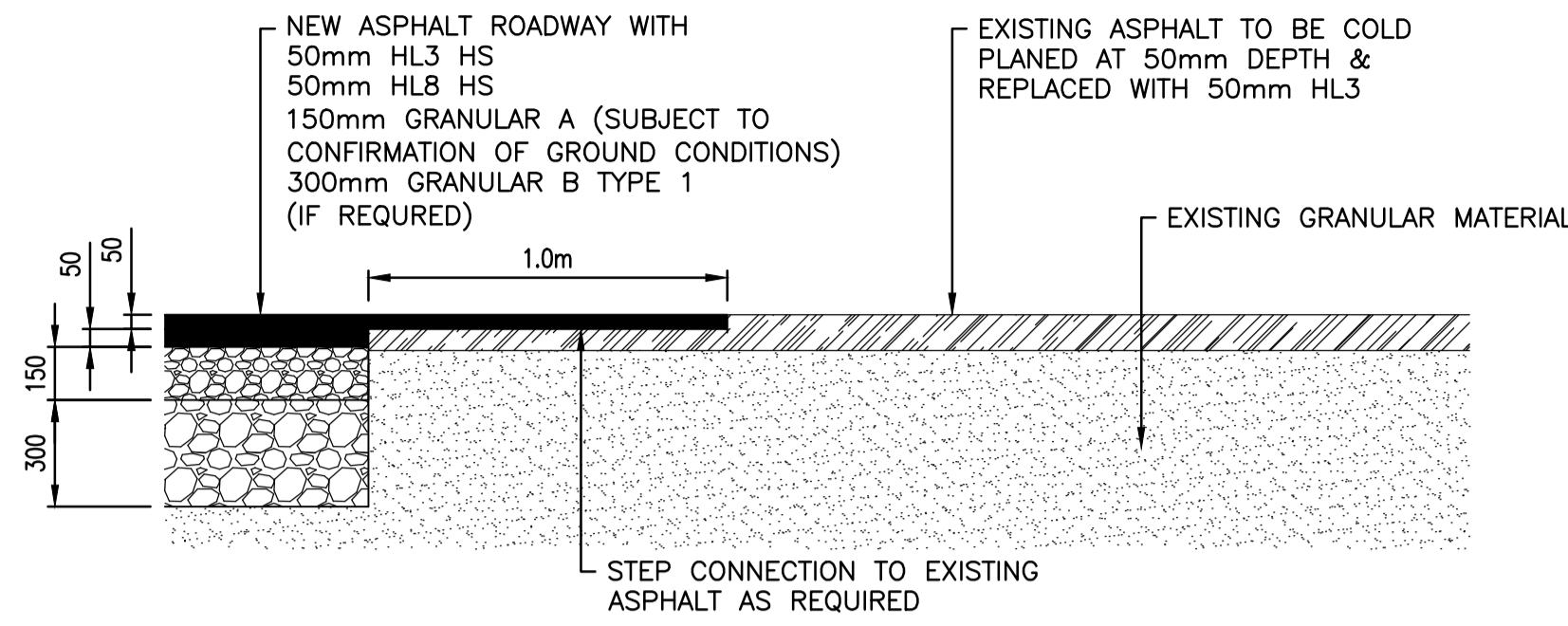
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LEGEND

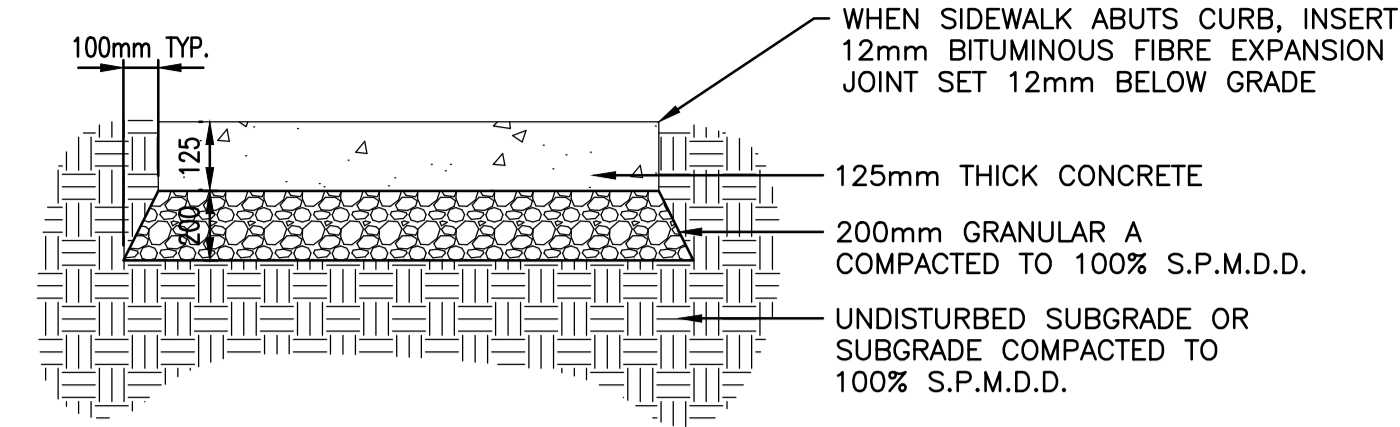
| | | | |
|--|----------------------------|------------|--------------------------------------|
| | ELECTRICAL LINE | | DIRECTION OF FLOW OVERLAND |
| | SANITARY LINE | | LIGHT DUTY SILT FENCE (OPSD 219.110) |
| | WATERMAIN LINE | | TREE PROTECTION |
| | NEW CONCRETE SIDEWALK/PADS | | SOD |
| | NEW ASPHALT | EX. 79.600 | EXISTING GRADE |
| | GRAVEL PATH | 79.600 | PROPOSED GRADE |

NOTE:

1. THE CONTRACTOR AND DEPARTMENTAL REPRESENTATIVE SHALL IDENTIFY ALL EXISTING INFRASTRUCTURE THAT WILL REQUIRE PROTECTION IN PLACE BEFORE AND DURING CONSTRUCTION WITHIN THE SITE AREA PRIOR TO UNDERTAKING THE SITE WORKS BY TAKING A PHOTO AND VIDEO RECORD OF THE EXISTING CONDITION. THE CONTRACTOR SHALL PROVIDE A MARKED UP SITE PLAN SHOWING THE LOCATION OF THESE EXISTING INFRASTRUCTURE SO THE DEPARTMENTAL REPRESENTATIVE CAN REVIEW IF THE EXISTING INFRASTRUCTURE MIGHT BE DAMAGED IN THE COURSE OF THE WORKS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REPAIR OF ANY EXISTING INFRASTRUCTURE DAMAGED OUTSIDE THE OF SITE WORKS AREA.
2. ALL UNDERGROUND SERVICE TRENCHES TO BE BACKFILLED (AS MECHANICAL AND ELECTRICAL REQUIREMENTS) ABOVE THE SERVICES AND TRENCH REINSTATED WITH CLEAN IMPORTED BACKFILL COMPACTED AND EXISTING SOD REPLACED WITH NEW SOD.
3. THE SOILS AT THE LOCATION OF THE CURRENT SEPTIC BED, ONCE DECOMMISSIONED AND ALONG WITH ANY OTHER SURPLUS SOILS GENERATED AS PART OF THE PROJECT MUST BE DISPOSED OF OFF-SITE, TO A LICENSED LANDFILL.
4. IF SOIL IS FOUND TO BE NOT CONTAMINATED, STOCKPILE ON SITE FOR FUTURE USE WOULD BE BENEFICIAL.
5. WORKS INVOLVING TREE MANAGEMENT MUST BE REVIEWED AND APPROVED BY THE SLSMC (ST. LAWRENCE SEAWAY MANAGEMENT CORPORATION) AND DEPARTMENTAL REPRESENTATIVE PRIOR TO INITIATING CONSTRUCTION WORK.

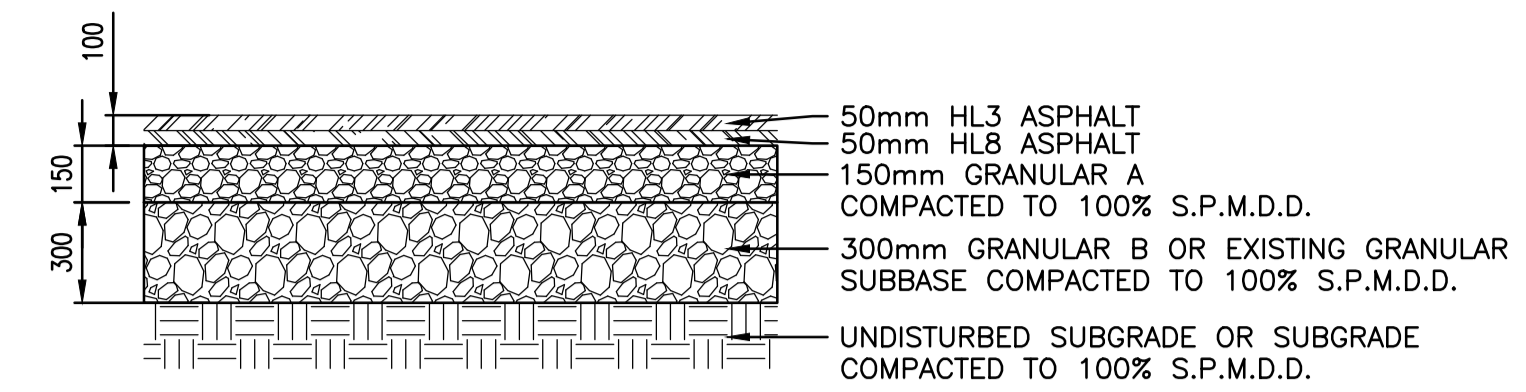


1 ASPHALT LAP JOINT DETAIL
C-02 N.T.S.



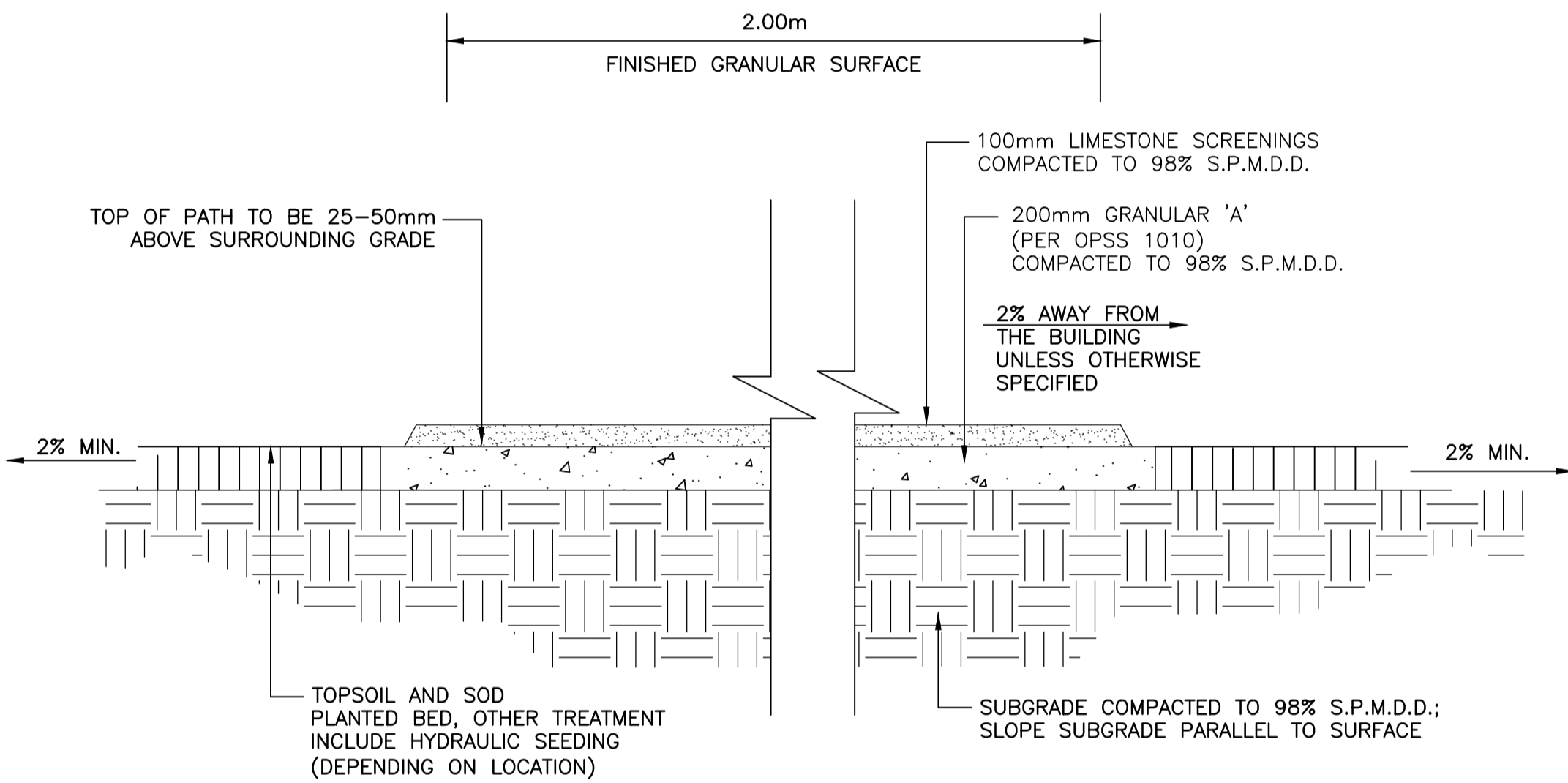
- NOTES:
1. CONCRETE TO BE 32MPa COMPRESSIVE STRENGTH AT 28.
 2. EXPANSION JOINTS SHALL BE LOCATED AT A MAXIMUM 6.0m ON CENTRE (LENGTH AND WIDTH) AND WHERE CONCRETE MEETS OTHER HARD SURFACES AND STRUCTURES AND FINISHED WITH GREY POLYSULPHIDE SEALANT.
 3. CONTRACTION JOINTS WITH DOUBLE EDGER IN FRESH CONCRETE THEN SAWCUT TO A DEPTH OF 30mm. WHEN THE SIDEWALK WIDTH IS 2.0 M OR GREATER, A LONGITUDINAL CONTRACTION JOINT SHALL BE SAWN OR FORMED AT A MAXIMUM SPACING INTERVAL OF 1.5 M.
 4. BROOM FINISH PERPENDICULAR TO PEDESTRIAN TRAFFIC.
 5. WALKWAY CROSS SLOPE TO BE 1% MINIMUM; 2% MAXIMUM.
 6. EDGE WITH A 75mm WIDE 10mm RADIUS CONCRETE EDGER.

2 CONCRETE WALKWAYS/PADS
C-02 N.T.S.

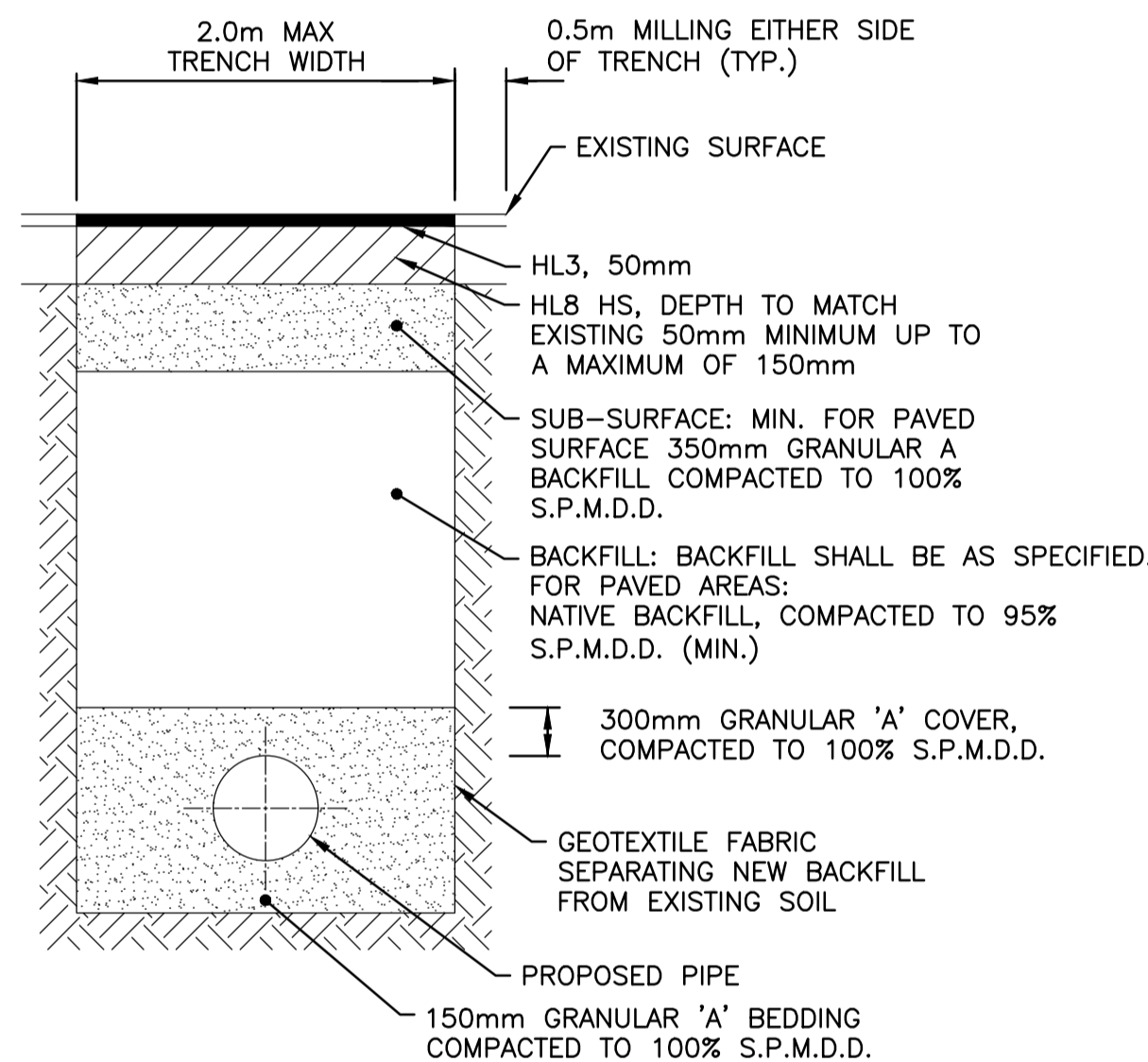


- NOTES:
1. ASPHALT MATERIALS SHALL BE ROLLED AND COMPACTED TO A MINIMUM OF 92 PERCENT MARSHALL MAXIMUM RELATIVE DENSITY (MRD). PROOF ROLLING OF ASPHALT SHALL BE INSPECTED BY THE DEPARTMENTAL REPRESENTATIVE.
 2. IF PAVEMENT CONSTRUCTION OCCURS IN WET, INCLEMENT WEATHER THE CONTRACTOR SHALL DISCUSS ADDITIONAL SUBGRADE SUPPORT WITH THE DEPARTMENTAL REPRESENTATIVE AND PROVIDE ADDITIONAL GRANULAR SUBBASE BASED ON THE DEPARTMENTAL REPRESENTATIVE'S RECOMMENDATIONS.
 3. FULL RECONSTRUCTION OF ROADWAY ONLY TO OCCUR WHERE NOTED ON THE GRADING PLANS.

3 MEDIUM DUTY ASPHALT (ROAD)
C-02 N.T.S.

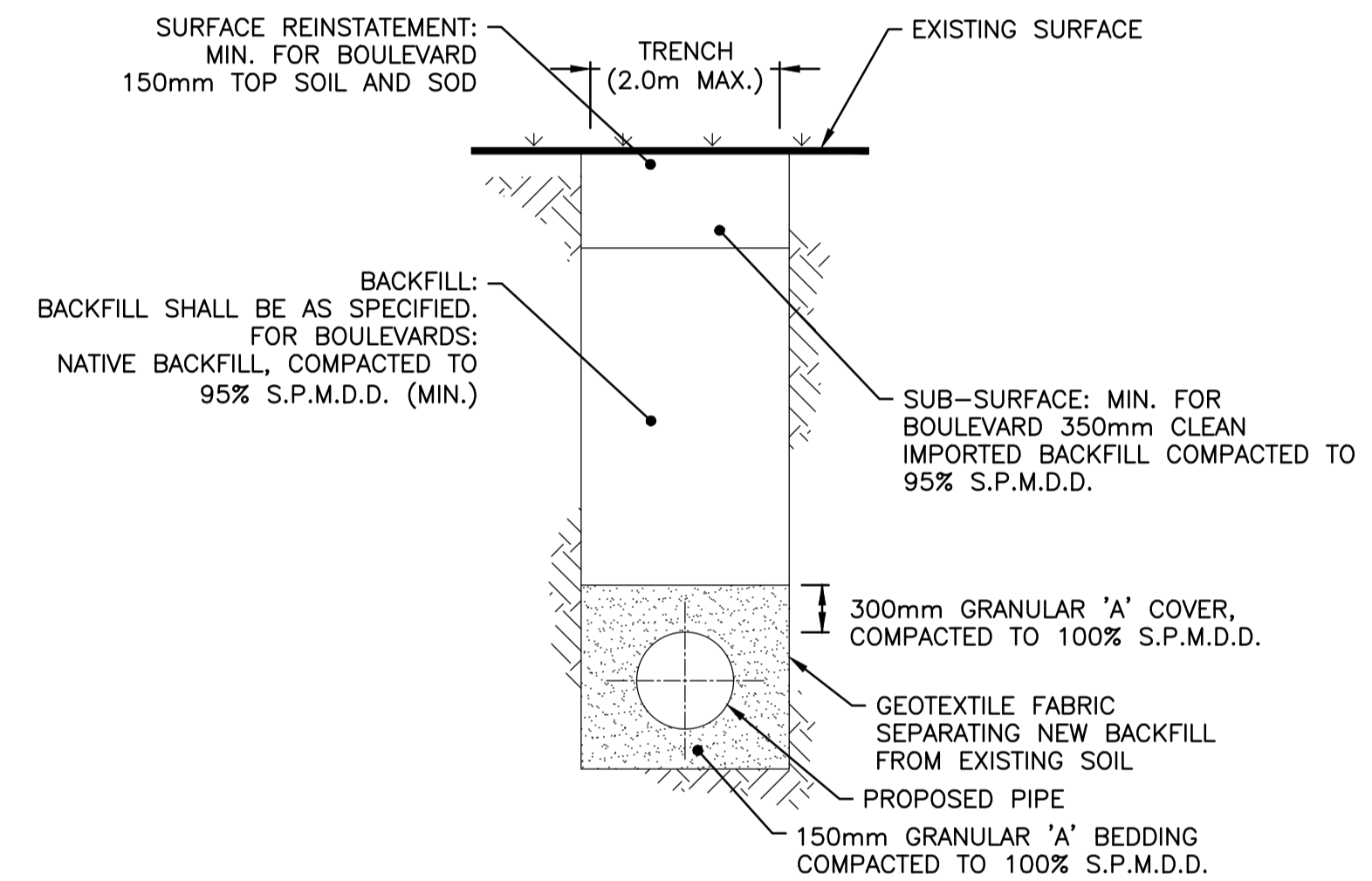


4 GRAVEL PATH DETAIL
C-02 N.T.S.



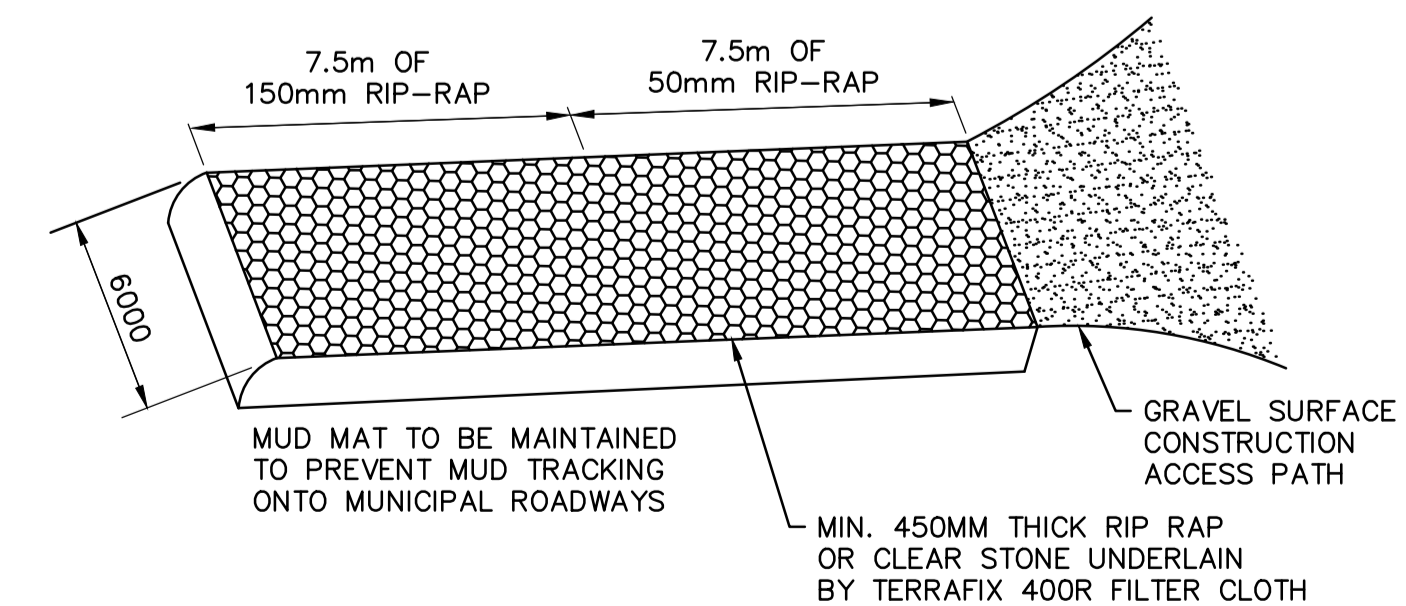
5 REINSTATEMENT FOR ASPHALT PAVEMENT
C-02 N.T.S.

- NOTES:
1. ALL PAVEMENT SHALL BE SAWCUT FOR THE REQUIRED TRENCH WIDTH. FOR CONCRETE SURFACES, PAVEMENT SAWCUTS SHALL BE MADE 75mm OUTSIDE THE TRENCH WIDTH.
 2. PRIOR TO HOT MIX ASPHALT APPLICATION, THE SIDES OF THE CUT PAVEMENT SHALL BE PAINTED WITH AN APPROVED ASPHALT EMULSION.
 3. MIN FOR ROADWAYS: 50mm HL3HS SURFACE 50mm HL8HS BASE
 4. MIN FOR SUBSURFACE FOR ROADWAYS/DRIVEWAYS: 350mm GRANULAR 'A', COMPACTED TO 100% S.P.M.D.D.
 5. BACKFILL SHALL BE AS SPECIFIED, OR;
 6. FOR EXISTING ROADWAYS/DRIVEWAYS: GRANULAR 'A' BACKFILL, COMPACTED TO 100% S.P.M.D.D.
 7. FOR ROADWAYS IN NEW SUBDIVISIONS: GRANULAR 'A' BACKFILL, COMPACTED TO 100% S.P.M.D.D. OR CLEAN IMPORTED BACKFILL, COMPACTED TO 95% S.P.M.D.D. (MIN.)

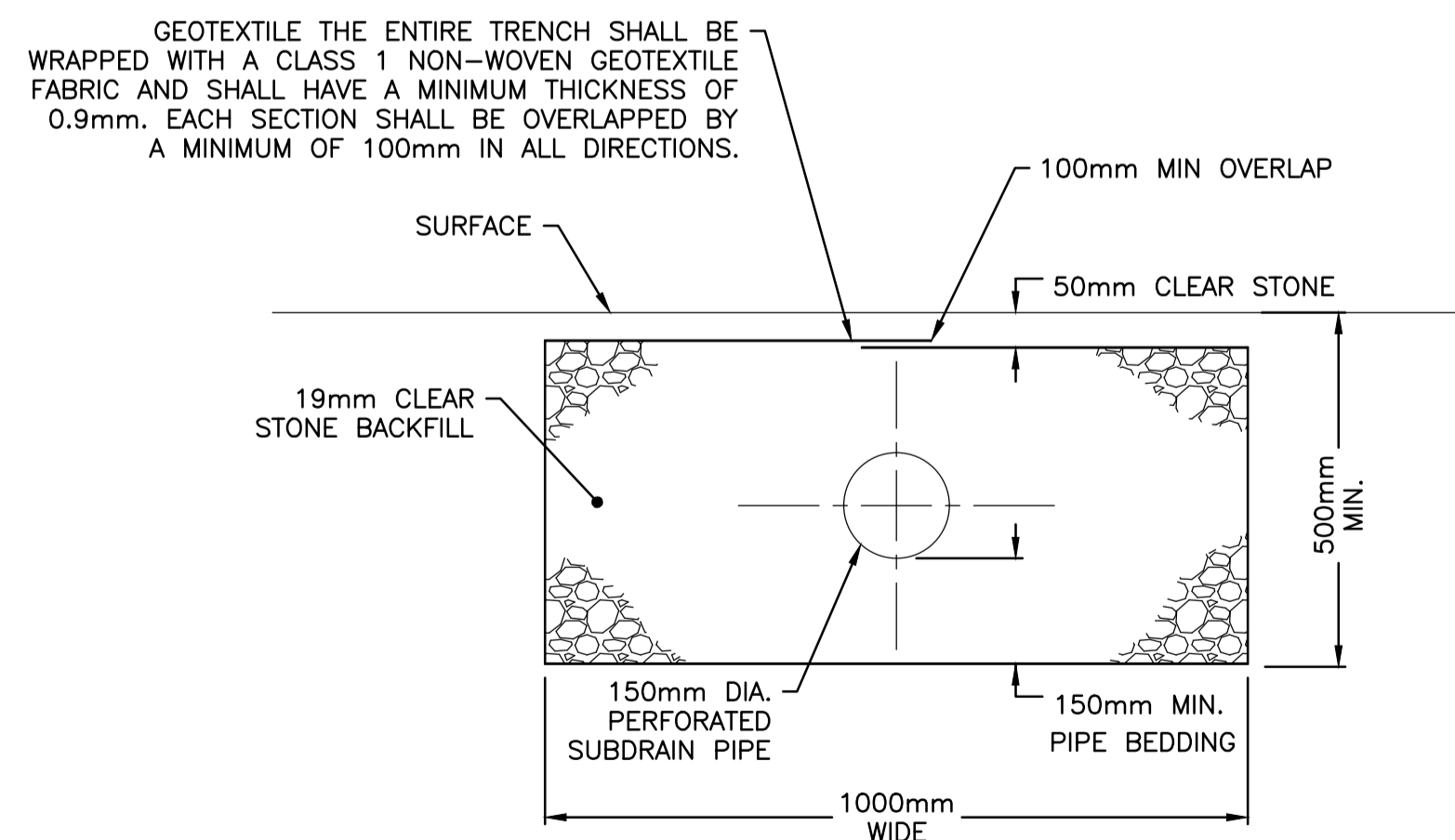


6 TYPICAL TRENCH REINSTATEMENTS FOR GRASS BOULEVARDS
C-02 N.T.S.

- NOTES:
1. ALL PAVEMENT SHALL BE SAWCUT FOR THE REQUIRED TRENCH WIDTH. FOR CONCRETE SURFACES, PAVEMENT SAWCUTS SHALL BE MADE 75mm OUTSIDE THE TRENCH WIDTH.
 2. PRIOR TO HOT MIX ASPHALT APPLICATION, THE SIDES OF THE CUT PAVEMENT SHALL BE PAINTED WITH AN APPROVED ASPHALT EMULSION.
 3. WHERE COLD PATCH ASPHALT IS USED FOR TEMPORARY REINSTATEMENT, AT THE END OF EACH WORKING DAY, AREAS ARE TO BE REVIEWED AND COLD PATCH SHALL BE APPLIED ACCORDINGLY, TO PROVIDE AN APPROPRIATE LEVEL SURFACE.
 4. FULL GRANULAR 'A' BACKFILL, COMPACTED TO 100% S.P.M.D.D. IS REQUIRED FOR INSTALLATIONS UNDER EXISTING DRIVEWAYS.



8 TYPICAL MUD MAT DETAIL
C-02 N.T.S.



7 INFILTRATION TRENCH 1000mmx500mm DEEP
C-02 N.T.S.



| | | |
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| 01 | ISSUED FOR TENDER | 2021-07-26 |
| revision | | date |

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project title
titre du projet
PORT WELLER ONTARIO
DEPARTMENT OF FISHERIES AND OCEANS
SEARCH & RESCUE STATION
ST. CATHARINES
**DEMOLITION, RENOVATION,
AND NEW CONSTRUCTION**

drawing title
titre du dessin
CIVILS DETAIL

drawn by
dessiné par
RM

designed by
conçue par
DR

approved by
approuvé par
KB

bid
offre
KG

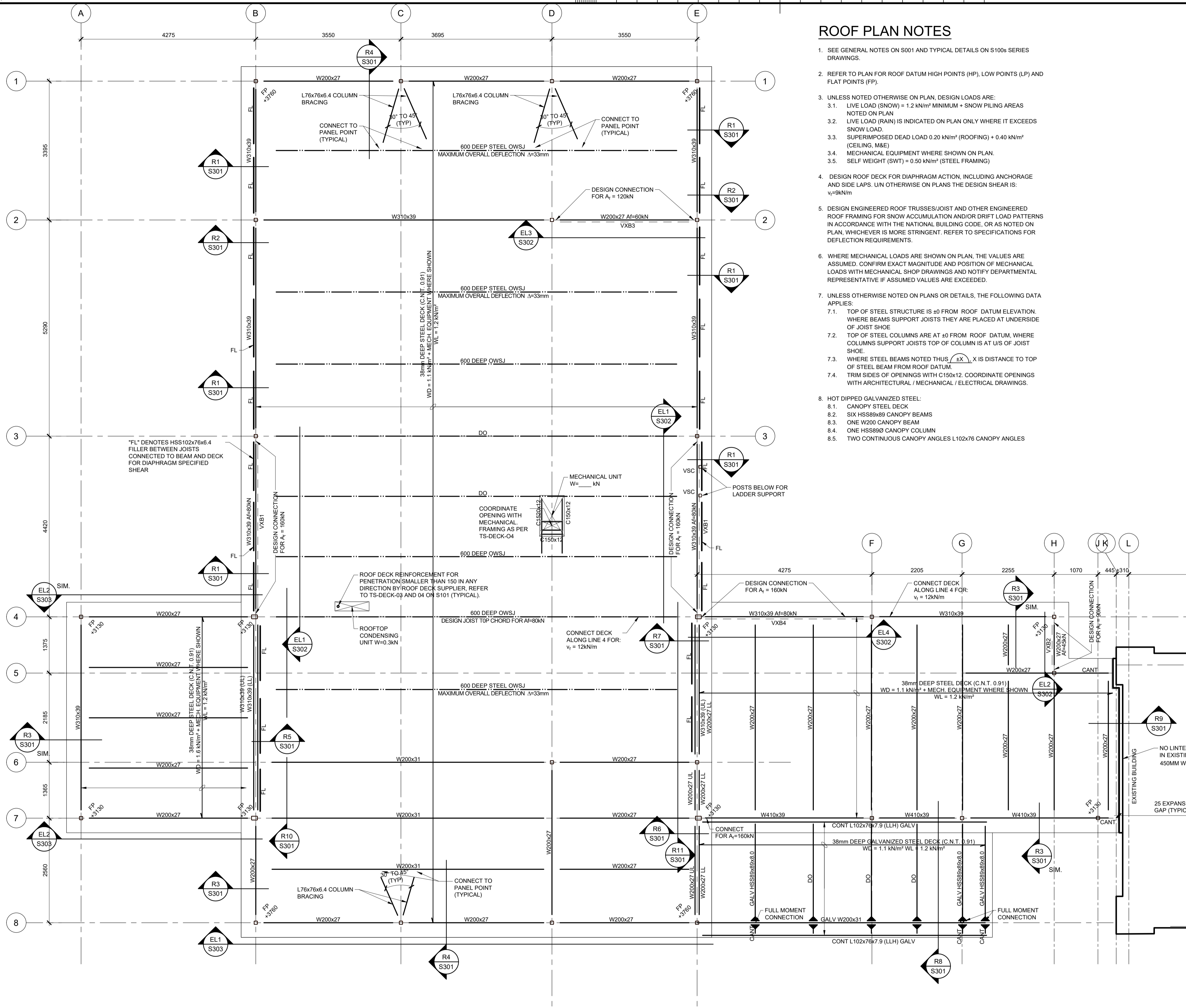
project date
date du projet
2021.07.26

project no.
no. du projet
R.079827.001

drawing no.
dessiné no.
DETAILS C-02

ROOF PLAN NOTES

- SEE GENERAL NOTES ON S001 AND TYPICAL DETAILS ON S100s SERIES DRAWINGS.
- REFER TO PLAN FOR ROOF DATUM HIGH POINTS (HP), LOW POINTS (LP) AND FLAT POINTS (FP).
- UNLESS NOTED OTHERWISE ON PLAN, DESIGN LOADS ARE:
 - LIVE LOAD (SNOW) = 1.2 kN/m² MINIMUM + SNOW PILING AREAS NOTED ON PLAN
 - LIVE LOAD (RAIN) IS INDICATED ON PLAN ONLY WHERE IT EXCEEDS SNOW LOAD.
 - SUPERIMPOSED DEAD LOAD 0.20 kN/m² (ROOFING) + 0.40 kN/m² (CEILING, M&E)
 - MECHANICAL EQUIPMENT WHERE SHOWN ON PLAN.
 - SELF WEIGHT (SWT) = 0.50 kN/m² (STEEL FRAMING)
- DESIGN ROOF DECK FOR DIAPHRAGM ACTION, INCLUDING ANCHORAGE AND SIDE LAPS. UNLESS NOTED OTHERWISE ON PLANS THE DESIGN SHEAR IS: $v_p = 9kN/m$
- DESIGN ENGINEERED ROOF TRUSSES/JOIST AND OTHER ENGINEERED ROOF FRAMING FOR SNOW ACCUMULATION AND/OR DRIFT LOAD PATTERNS IN ACCORDANCE WITH THE NATIONAL BUILDING CODE, OR AS NOTED ON PLAN, WHICHEVER IS MORE STRINGENT. REFER TO SPECIFICATIONS FOR DEFLECTION REQUIREMENTS.
- WHERE MECHANICAL LOADS ARE SHOWN ON PLAN, THE VALUES ARE ASSUMED. CONFIRM EXACT MAGNITUDE AND POSITION OF MECHANICAL LOADS WITH MECHANICAL SHOP DRAWINGS AND NOTIFY DEPARTMENTAL REPRESENTATIVE IF ASSUMED VALUES ARE EXCEEDED.
- UNLESS OTHERWISE NOTED ON PLANS OR DETAILS, THE FOLLOWING DATA APPLIES:
 - TOP OF STEEL STRUCTURE IS ± 0 FROM ROOF DATUM ELEVATION. WHERE BEAMS SUPPORT JOISTS THEY ARE PLACED AT UNDERSIDE OF JOIST SHOE
 - TOP OF STEEL COLUMNS ARE AT ± 0 FROM ROOF DATUM, WHERE COLUMNS SUPPORT JOISTS TOP OF COLUMN IS AT U/S OF JOIST SHOE
 - WHERE STEEL BEAMS NOTED THUS $\frac{EX}{L}$, X IS DISTANCE TO TOP OF STEEL BEAM FROM ROOF DATUM.
 - TRIM SIDES OF OPENINGS WITH C150x12. COORDINATE OPENINGS WITH ARCHITECTURAL / MECHANICAL / ELECTRICAL DRAWINGS.
- HOT DIPPED GALVANIZED STEEL:
 - CANOPY STEEL DECK
 - SIX HSS300x89 CANOPY BEAMS
 - ONE W200 CANOPY BEAM
 - ONE HSS890 CANOPY COLUMN
 - TWO CONTINUOUS CANOPY ANGLES L102x76 CANOPY ANGLES



1 NEW LIVING QUARTERS - ROOF PLAN
S201 1:50

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| 01 | Issued for Tender | 2021.07.26 |
| revision | description | date |

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project title
titre du projet
PORT WELLER ONTARIO DEPARTMENT OF FISHERIES AND OCEANS SEARCH & RESCUE STATION ST. CATHARINES DEMOLITION, RENOVATION, AND NEW CONSTRUCTION

drawing title
titre du dessin
NEW LIVING QUARTERS - ROOF PLAN

drawn by
dessiné par
MMB

designed by
conçu par
MMB

approved by
approuvé par
MMB

bid offer
offre
KG

project manager
administrateur de projets

project date
date du projet
2021-07-26

project no.
no. du projet
R.079827.001

drawing no.
dessiné no.
S201

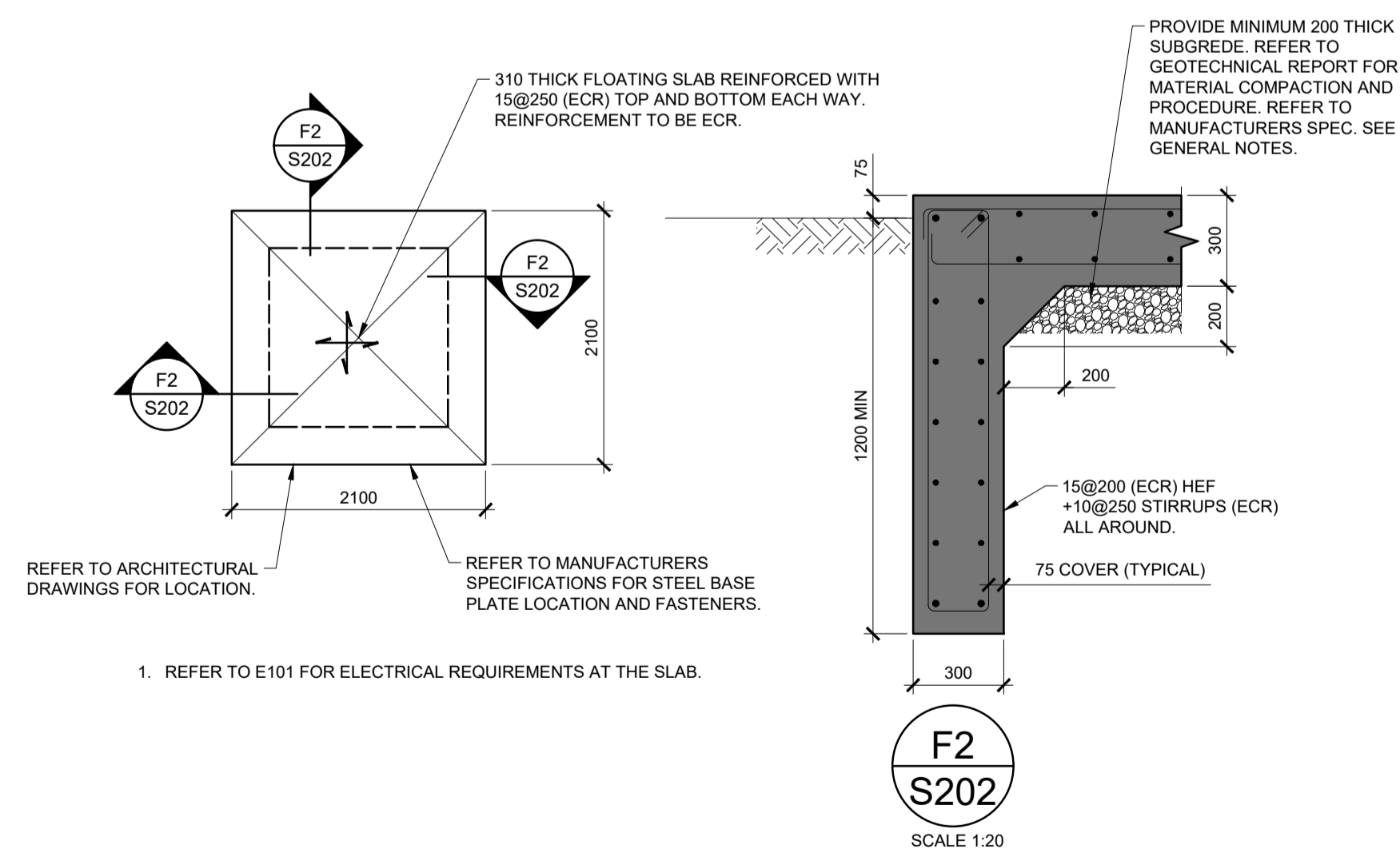
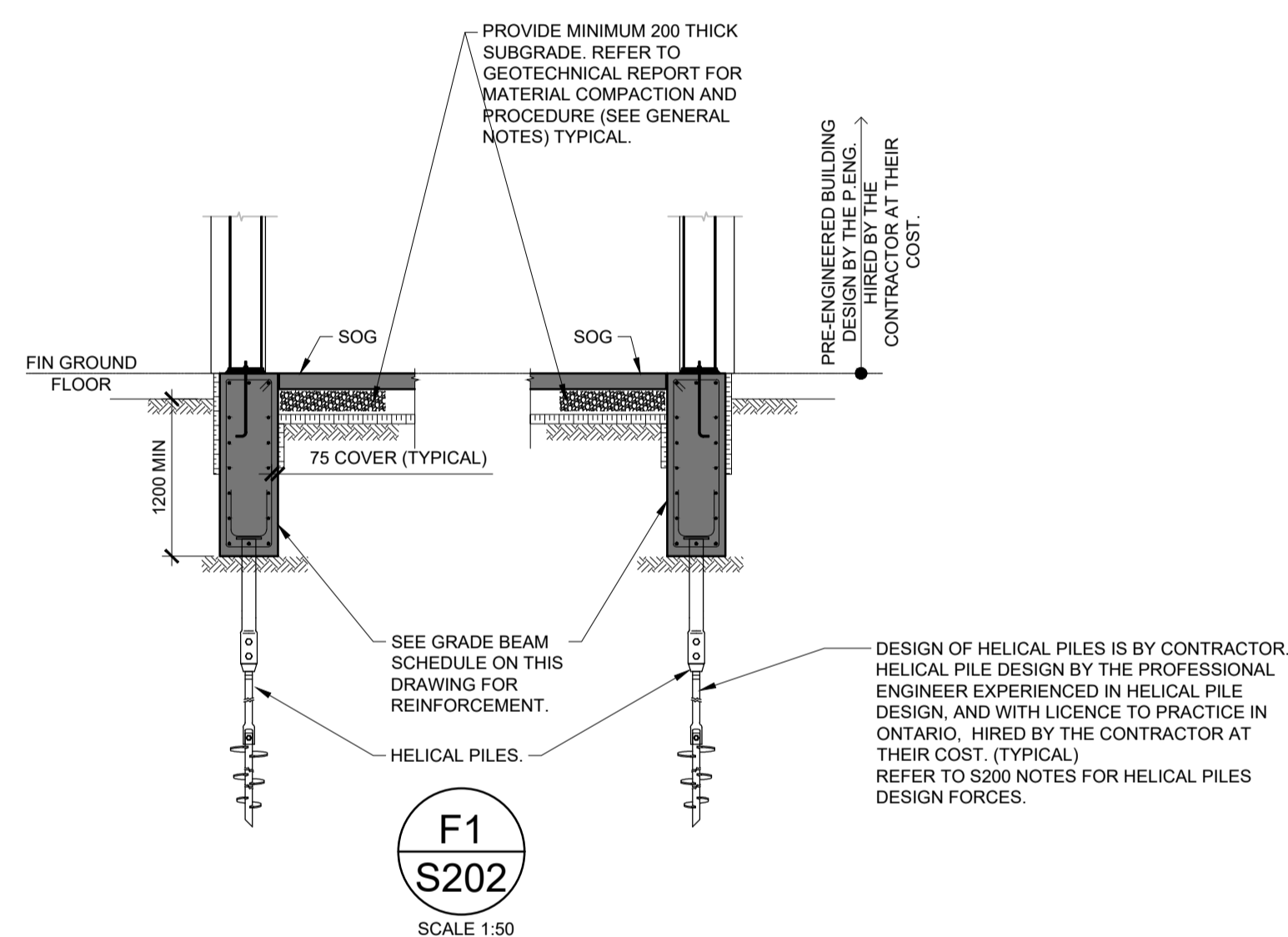
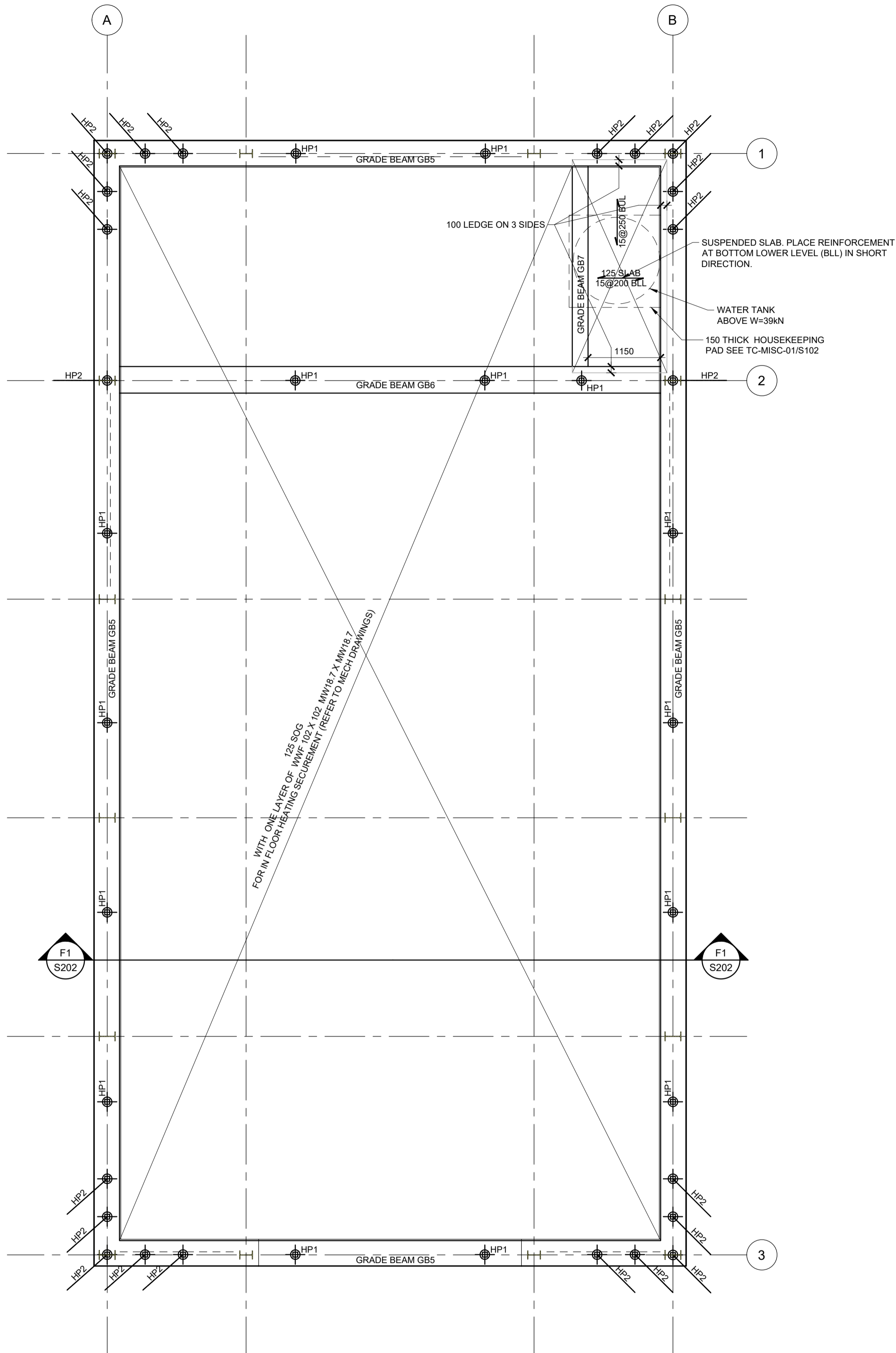
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GROUND FLOOR PLAN NOTES

1. SEE GENERAL NOTES ON S001 AND TYPICAL DETAILS ON S1005 SERIES DRAWINGS.
2. GROUND FLOOR DATUM ELEVATION IS 0.00 (GEODETIC EL. 79.75 METERS)
3. REFER TO S200 FOR ADDITIONAL PLAN NOTES AND DESIGN LOADS.
4. REFER TO THE SUPPLEMENTARY GEOTECHNICAL INVESTIGATION REPORT (124-B-0017786-0-01-100-GE-R-002-01) FOR THE NEW GARAGE LOCATION PREPARED BY ENGBOE DATED July 29, 2020.

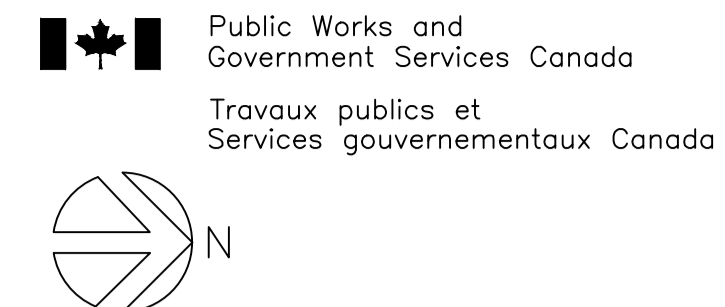
GRADE BEAM SCHEDULE

| BEAM MARK | SIZE (bxd) | REINFORCING |
|-----------|------------|--|
| GB 5 | 400x1450 | 5-25 T 15@200 HEF (ADDITIONAL) 5-25 B 10@250CLOSED STIRRUPS |
| GB 6 | 400x1325 | 4-25 T 15@200 HEF (ADDITIONAL) 4-25 B 10@250CLOSED STIRRUPS |
| GB 7 | 300x1200 | 4-20 T 15@200 HEF (ADDITIONAL) 4-20 B 10@250CLOSED STIRRUPS |



1 NEW UTILITY / GARAGE / WORKSHOP - FOUNDATION AND GROUND FLOOR PLAN
1:50

2 PHOTO-VOLTAIC PANEL (SMART FLOWER) FOUNDATIONS
1:50



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SEARCH & RESCUE STATION
ST. CATHARINES
DEMOLITION, RENOVATION,
AND NEW CONSTRUCTION

drawing title
titre du dessin
**NEW UTILITY / GARAGE /
WORKSHOP - FOUNDATION
AND GROUND FLOOR PLAN**

drawn by
dessiné par
MMB

designed by
conçu par
MMB

approved by
approuvé par
MMB

bid
offre
KG

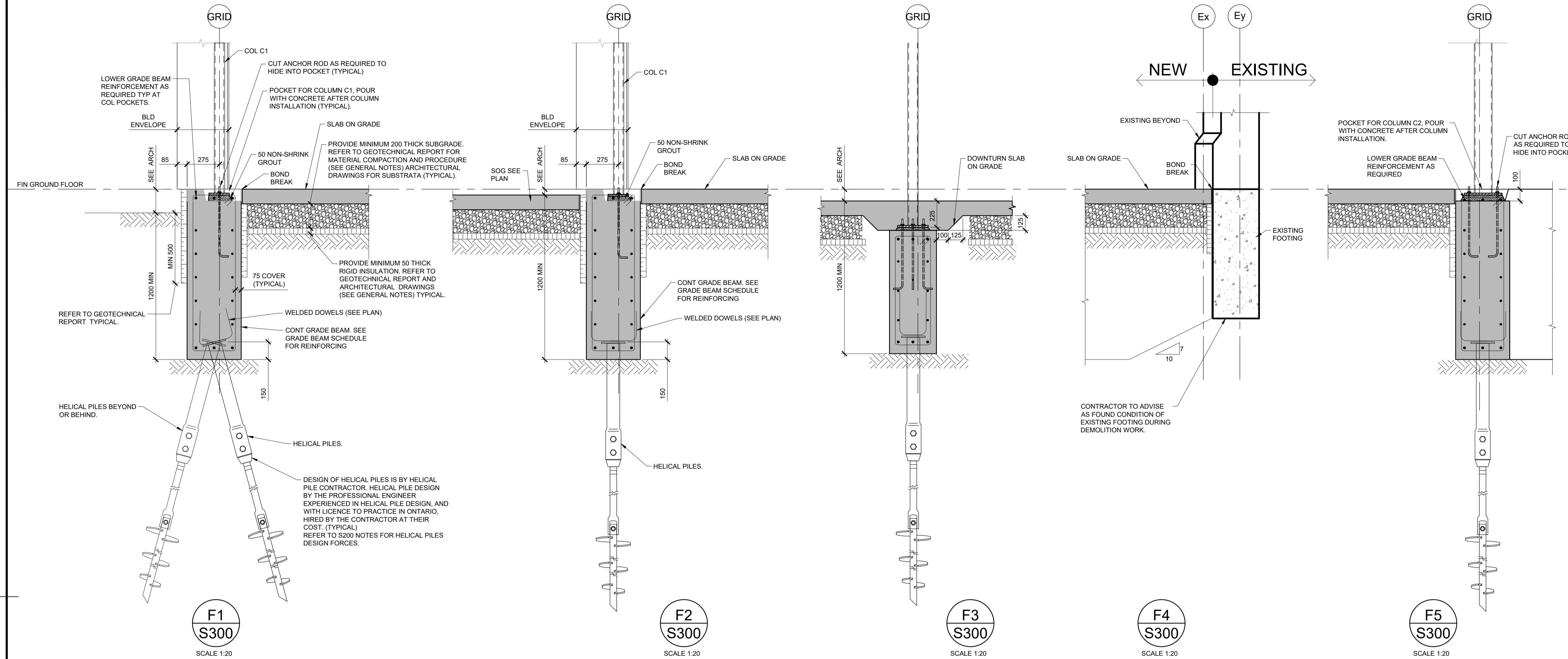
project manager
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date du projet
2021-07-26

project no.
no. du projet
R.079827.001

drawing no.
dessiné no.
S202

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F1 S300 SCALE 1:20

F2 S300 SCALE 1:20

F3 S300 SCALE 1:20

F4 S300 SCALE 1:20

F5 S300 SCALE 1:20

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SEARCH & RESCUE STATION
ST. CATHARINES
DEMOLITION, RENOVATION,
AND NEW CONSTRUCTION

drawing title
titre du dessin
SECTIONS AND DETAILS

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MMB

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MMB

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approuvé par
MMB

bid offer
offre
KG project manager
administrateur
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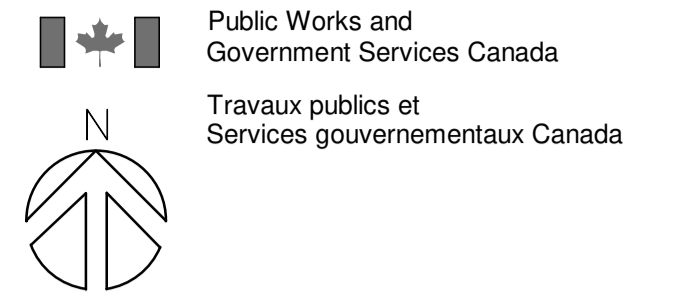
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drawing no.
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S300

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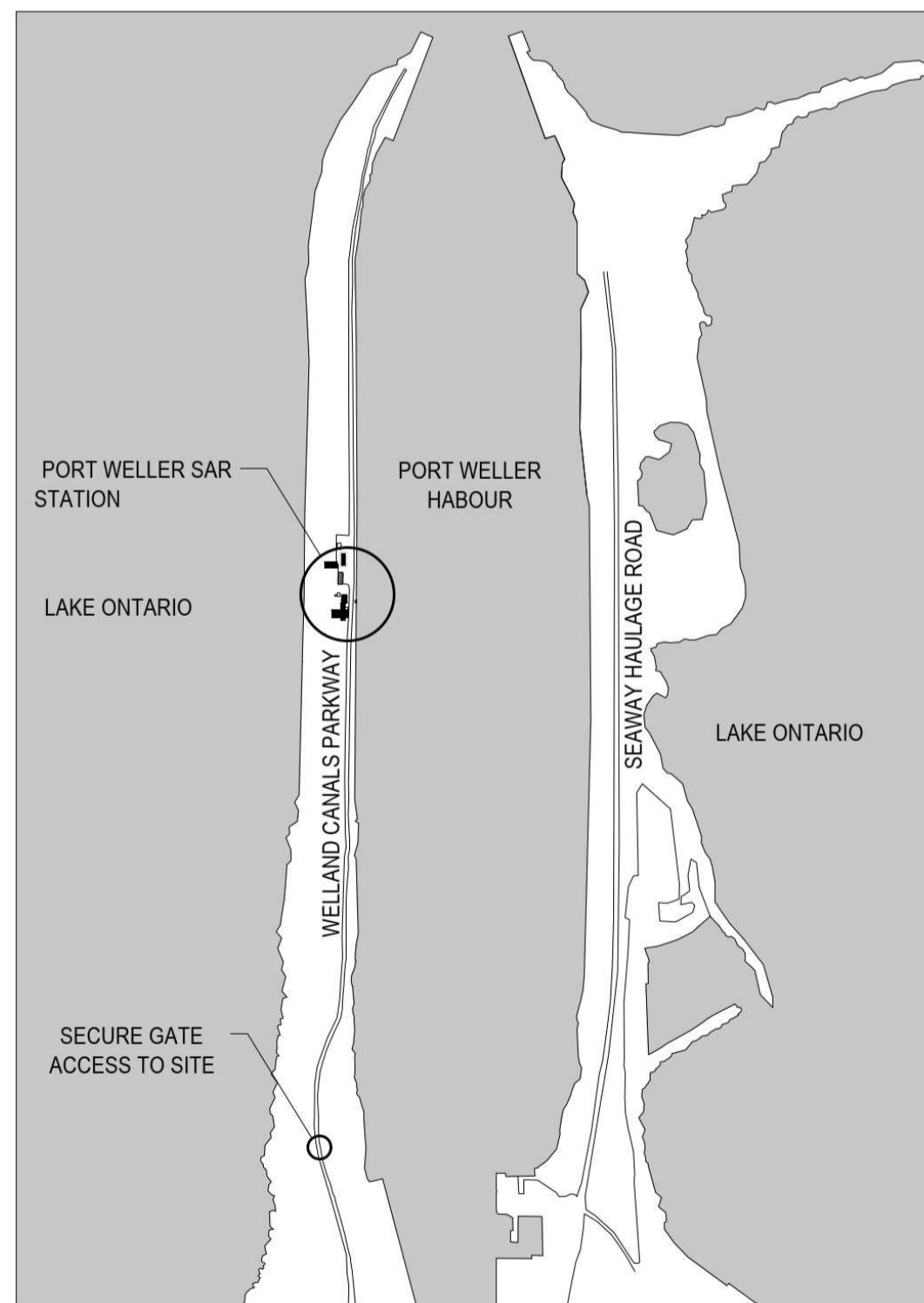
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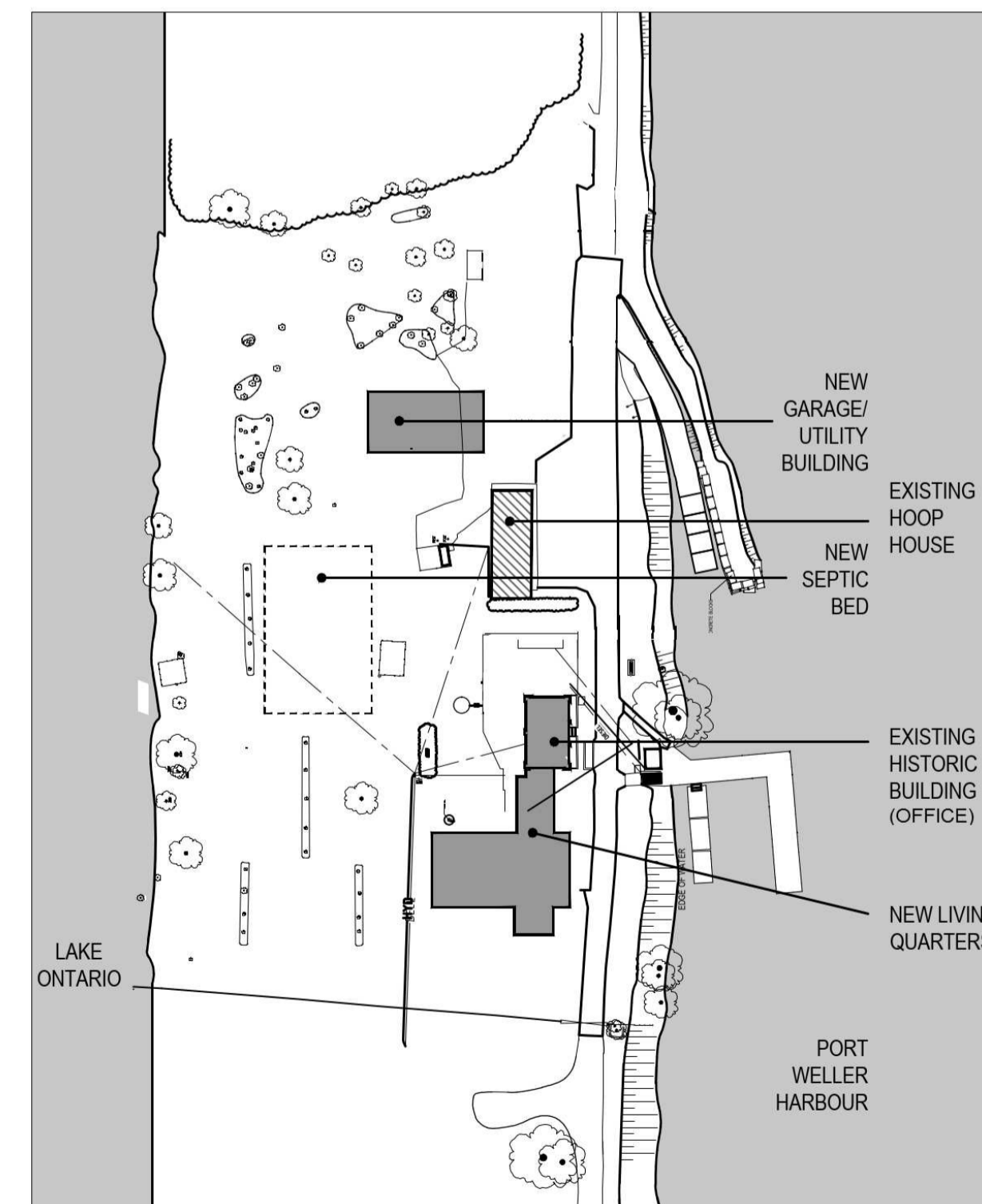
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| DWG No. | DRAWING NAME | COMMENT |
|------------------------------|--|---------|
| M000 | COVER, KEY PLAN, LOCATION PLAN AND DRAWING LIST | |
| MECHANICAL GENERAL | | |
| M001 | MECHANICAL LEGEND | |
| M002 | SCHEDULES | |
| M003 | SCHEDULES | |
| M004 | SCHEDULES | |
| SITE SERVICES | | |
| M101 | SITE PLAN- NEW | |
| PLUMBING AND DRAINAGE | | |
| M200 | LIVING QUARTERS UNDERSLAB - NEW | |
| M201 | OFFICE BUILDING UNDERSLAB - NEW | |
| M202 | GARAGE/UTILITY BUILDING UNDERSLAB - NEW | |
| M203 | LIVING QUARTERS - NEW | |
| M204 | OFFICE BUILDING - NEW | |
| M205 | GARAGE/UTILITY BUILDING - NEW | |
| M206 | LIVING QUARTERS ROOF - NEW | |
| M207 | OFFICE BUILDING ROOF- NEW | |
| M208 | GARAGE/UTILITY BUILDING ROOF - NEW | |
| HVAC | | |
| M401 | LIVING QUARTERS - NEW | |
| M402 | OFFICE BUILDING - NEW | |
| M403 | GARAGE/UTILITY BUILDING - NEW | |
| M404 | LIVING QUARTERS ROOF - NEW | |
| M405 | OFFICE BUILDING ROOF- NEW | |
| M406 | EXISTING LIGHTHOUSE KEEPER'S DWELLING - DEMOLITION | |
| MECHANICAL DETAILS | | |
| M901 | SHEET 1 | |
| M902 | SHEET 2 | |
| M903 | SHEET 3 | |
| M904 | SHEET 4 | |



1 Location Plan
NTS



2 Key Plan
NTS

| revision | description | date |
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SEARCH & RESCUE STATION
ST. CATHARINES
DEMOLITION, RENOVATION,
AND NEW CONSTRUCTION

drawing title
titre du dessin
**COVER, KEY PLAN,
LOCATION PLAN AND
DRAWING LIST**

drawn by
dessiné par SA

designed by
conçue par OH

approved by
approuvée par AP

bid
offre KG project manager
administrateur de projets

project date
date du projet 2021-07-26

project no.
no. du projet **R.079827.001**

drawing no.
dessiné no. **M000**

GENERAL NOTES

| MECHANICAL ELEMENT TAGS | |
|----------------------------------|---|
| (XXX-000) | XX - DENOTES EQUIPMENT ABBREVIATION (SEE THE LIST BELOW) 000 - DENOTES THE UNIT NUMBER |
| (P-XXX-1) | P - DENOTES PUMP XXX - DENOTES SYSTEM (HW, CHW, SAN, FP) 1 - DENOTES PUMP NUMBER |
| MECHANICAL ELEMENT ABBREVIATIONS | |
| CU | REMOTE CONDENSING UNIT |
| CVE | ELECTRIC CONVECTOR |
| EF | EXHAUST FAN |
| ET | EXPANSION TANK |
| G | GRILLE AND DIFFUSER |
| HP | HEAT PUMP |
| HRU | HEAT RECOVERY UNIT |
| HUE | RESIDENTIAL PORTABLE ELECTRIC HUMIDIFIER |
| HWIE | HOT WATER INSTANTANEOUS HEATER |
| HWT | HOT WATER TANK HEATER |
| LV | LOUVER |
| LPH | LOUVERED PENTHOUSE |
| P | PUMP |
| PT | PRESSURE TANK |
| RHE | ELECTRIC DUCT HEATER |
| RO | REVERSE OSMOSIS |
| SF | SUPPLY FAN |
| SFT | WATER SOFTENER |
| ST | STORAGE TANK |
| TSP | ELECTRONIC TRAP SEAL PRIMER |
| UHE | UNIT HEATER |

LINEWORK DESIGNATION

| | |
|--|--------------------------------------|
| | NEW WORK (PIPING AND DUCTWORK) |
| | EXIST. WORK TO REMAIN |
| | EXIST. WORK TO BE REMOVED/DEMOLISHED |
| | ELECTRIC TRACE HEATING CABLE |

VENTILATION ABBREVIATIONS

| DUCT DESIGNATIONS | |
|----------------------------|---------------------------------|
| 400X200 | 400x200 GALVANIZED DUCTWORK |
| 400/200 | 400x200 OVAL DUCTWORK |
| 200ø | 200 MM DIAMETER DUCT |
| DUCT SYSTEM ABBREVIATIONS | |
| GE/A | GENERAL EXHAUST AIR |
| KE/A | KITCHEN EXHAUST AIR |
| O/A | OUTSIDE AIR |
| R/A | RETURN AIR |
| S/A | SUPPLY AIR |
| SE/A | SANITARY EXHAUST AIR |
| HVAC ELEMENT ABBREVIATIONS | |
| FRD | FIRE DAMPER (RECTANGULAR) |
| MD | MOTORIZED DAMPER |
| T | TEMPERATURE SENSOR / THERMOSTAT |
| VD | VOLUME DAMPER |

HEATING AND COOLING LEGEND

| PIPING SYSTEM ABBREVIATIONS | |
|-----------------------------|-----------------------------|
| RCOOND | REFRIGERANT CONDENSER LINE |
| REVAP | REFRIGERANT EVAPORATOR LINE |

PLUMBING LEGEND

| SYMBOLS | |
|--------------------------------|---|
| | EXPOSED SANITARY DRAIN |
| | BURIED SANITARY DRAIN |
| | EXPOSED STORM DRAIN |
| | BURIED STORM DRAIN |
| | SANITARY VENT |
| | DOMESTIC COLD WATER |
| | DOMESTIC HOT WATER |
| | DOMESTIC HOT WATER RECIRC. |
| | CLEANOUT PLUG |
| | FLOOR CLEANOUT |
| | PLUMBING TRAP |
| | HOSE BIBB |
| | NON FREEZE WALL HYDRANT |
| | FLOOR DRAIN |
| | FUNNEL FLOOR DRAIN |
| | AREA DRAIN |
| | HUB DRAIN |
| | PLENUM DRAIN |
| | WATER METER |
| | GAS METER ASSEMBLY |
| | PLUMBING FIXTURE ON THE LEVEL ABOVE |
| | THRUST BLOCK |
| | FINISH FLOOR ELEVATION |
| | MAINTENANCE HOLE |
| PLUMBING FIXTURE TAGS | |
| XXX | XXX- DENOTES PLUMBING FIXTURE ABBREVIATION (SEE THE LIST BELOW) |
| PLUMBING SYSTEM ABBREVIATIONS | |
| CD | CONDENSATE DRAIN FROM HEAT PUMP |
| DCW | DOMESTIC COLD WATER |
| DHW | DOMESTIC HOT WATER |
| SAN | SANITARY DRAINAGE LINE |
| V | SANITARY VENT |
| PLUMBING FIXTURE ABBREVIATIONS | |
| EW | EYE WASH |
| FD | FLOOR DRAIN |
| FFD | FUNNEL FLOOR DRAIN |
| LAV | LAVATORY |
| LT | LAUNDRY TUB |
| S | SINK |
| SH | SHOWER |
| TD | TRENCH DRAIN |
| WC | WATER CLOSET |
| WB | WASH BOX |

FIRE PROTECTION LEGEND

| SYMBOLS | |
|---------|-----------------------------------|
| | SURFACE MOUNTED FIRE EXTINGUISHER |

VENTILATION LEGEND

| SYMBOLS | |
|---------------------|--|
| | SUPPLY AIR DUCT |
| | RETURN AIR DUCT |
| | EXHAUST AIR DUCT |
| | SQUARE S/A DIFFUSER |
| | LINEAR DIFFUSER |
| | ELECTRICAL DUCT HEATER |
| | TURNING VANES |
| | FLEXIBLE DUCT |
| | TAKE-OFF WITH VOLUME DAMPER |
| | VOLUME DAMPER |
| | FIRE DAMPER |
| | DAMPER NUMBER |
| | MOTORIZED DAMPER |
| | DOOR UNDERCUT |
| | ACCESS DOOR |
| | ARROW - DENOTES AIR FLOW DIRECTION (TO/FROM GRILLE) G - DENOTES GRILLE/DIFFUSER ELEMENT CATEGORY 03 - DENOTES GRILLE/DIFFUSER ELEMENT NUMBER AHU-1 - DENOTES AIR HANDLING UNIT NUMBER SERVING THE GRILLE/DIFFUSER |
| | 100 - DENOTES AIR FLOW RATE IN CFM |
| | 47 - DENOTES AIR FLOW RATE IN LITERS PER SECOND |
| | E - DENOTES GRILLE/DIFFUSER TYPE |
| | 450x250 - DENOTES GRILLE/DIFFUSER SIZE |
| | 150ø - DENOTES DIFFUSER NECK DIAMETER |
| HVAC ACCESSORY TAGS | |
| XX | XX - DENOTES HVAC ACCESSORY ABBREVIATION (SEE THE LIST BELOW) |
| ABC | ABC - DENOTES HVAC ACCESSORY TYPE TAG |
| 000 | 000 - DENOTES HVAC ACCESSORY NUMBER |

VALVES & SPECIALITIES LEGEND

| SYMBOLS | |
|--------------------------------|---|
| | SHUT OFF VALVE |
| | MANUAL BALANCING VALVE |
| | AUTOMATIC BALANCING VALVE |
| | CONTROL VALVE |
| | PRESSURE REDUCING VALVE |
| | PRESSURE RELIEF VALVE |
| | PRESSURE & TEMPERATURE RELIEF VALVE |
| | MIXING OR DIVERTING VALVE (3-WAY) |
| | TRIPLE DUTY VALVE |
| | BUTTERFLY VALVE |
| | TEST PORT |
| | CHECK VALVE |
| | BASKET STRAINER |
| | 'Y' STRAINER |
| | UNION |
| | PET COCK |
| | UNINSULATED PIPE (IN SECTION) |
| | INSULATED PIPE (IN SECTION) |
| | CONTROL POINT |
| | PUMP |
| | BACK FLOW PREVENTER ASSEMBLY |
| PIPING ACCESSORY TAGS | |
| XXX | XX - DENOTES PIPING ACCESSORY ABBREVIATION (SEE THE LIST BELOW) |
| PIPING ACCESSORY ABBREVIATIONS | |
| AAV | AUTOMATIC AIR VENT |
| BFA | BACK FLOW PREVENTER ASSEMBLY |
| BWV | BACK WATER VALVE |
| CV | CONTROL VALVE |
| FS | FLOW SWITCH |
| FT | FLOW TRANSMITTER |
| HLA | HIGH LEVEL ALARM |
| LI | LEVEL INDICATOR |
| LLA | LOWER LEVEL ALARM |
| LT | LEVEL TRANSMITTER |
| MAV | MANUAL AIR VENT |
| PG | PRESSURE GAUGE |
| PS | PRESSURE SWITCH |
| PT | PRESSURE TRANSMITTER |
| SD | SUCTION DIFFUSER |
| TDV | TRIPLE DUTY VALVE |
| TG | TEMPERATURE GAUGE |
| TS | TEMPERATURE SENSOR |
| TT | TEMPERATURE TRANSMITTER |
| TMV | THERMOSTATIC MIXING VALVE |
| VSD | VARIABLE SPEED DRIVE |
| ZX | LIMIT SWITCH |

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| revision | description | date |
|----------|-------------------|------------|
| 1 | ISSUED FOR TENDER | 2021-07-26 |

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

project title
titre du projet
PORT WELLER ONTARIO
DEPARTMENT OF FISHERIES AND OCEANS
SEARCH & RESCUE STATION
ST. CATHARINES
DEMOLITION, RENOVATION,
AND NEW CONSTRUCTION

drawing title
titre du dessin
MECHANICAL LEGEND
MECHANICAL GENERAL

drawn by
dessiné par SA

designed by
conçu par OH

approved by
approuvé par AP

bid offer
offre KG project manager
administrateur de projets

project date
date du projet 2021-07-26

project no.
no. du projet **R.079827.001**

drawing no.
dessiné no. **M001**

NOTE:
1. A PHYSICAL TAG SHALL BE PLACED ON ALL EQUIPMENT ON SITE TO MATCH THE EQUIPMENT SCHEDULE.

REMOTE CONDENSING UNIT SCHEDULE
PORT WELLER SEARCH AND RESCUE STATION

Date: 2021-07-26
CEL Project No. R.079827.001
Revision No.:

| Tag No. | Location (Space Name) | Description | Area Served | Capacity kW (Ton) | No. of Circuits | Capacity Control Range (%) | V | PH | MCA | Power Type | Control | Active/Standby | Operating Weight kg (lb) | Manufacturer | Model | Remarks |
|---------|-----------------------|-------------|--|-------------------|-----------------|----------------------------|-----|----|------|-----------------|---------|----------------|--------------------------|--------------|-------|---------|
| CU-01 | OUTDOOR | HP-01,02,03 | 205 CO OFFICE, 203 ENGINEER'S OFFICE, 201 MULTIPURPOSE TRAINING/WORKSTATION AREA | 14.1 (4) | 1 | 14-100 | 230 | 1 | 29.1 | Non-Life Safety | Local | Active | 80 (176) | | | |
| CU-02 | OUTDOOR | HP-04 | 100 READY ROOM & VESTIBULE | 10.6 (3) | 1 | 14-100 | 230 | 1 | 16.5 | Non-Life Safety | Local | Active | 78 (172) | | | |
| CU-03 | OUTDOOR | HP-05 | 101/102/103 DINING/LIVING/KITCHEN | 17.6 (5) | 1 | 14-100 | 230 | 1 | 29.1 | Non-Life Safety | Local | Active | 102 (225) | | | |
| CU-04 | OUTDOOR | HP-06,07,08 | 104 FITNESS ROOM, 108/109 BEDROOMS, 112/113/114 BEDROOMS | 17.6 (5) | 1 | 14-100 | 230 | 1 | 29.1 | Non-Life Safety | Local | Active | 102 (225) | | | |
| CU-05 | ROOF | HP-09 | 105B TELECOM CLOSET | 3.5 (1) | 1 | | 230 | 1 | 12.2 | Non-Life Safety | Local | Active | 27 (60) | | | |

ELECTRIC CONVECTOR SCHEDULE
PORT WELLER SEARCH AND RESCUE STATION

Date: 2021-07-26
CEL Project No. R.079827.001
Revision No.:

| Tag No. | Location (Space No.) | Location (Space Name) | Length [mm] | Width [mm] | Height [mm] | Capacity [MBH] | V | PH | kW | Manufacturer | Model No. | Remarks |
|---------|----------------------|-----------------------|-------------|------------|-------------|----------------|-----|----|-----|--------------|-----------|---------|
| CVE-01 | 106 | BF WR | 635 | 60 | 170 | 1.5 | 240 | 1 | 0.4 | | | 1 |
| CVE-02 | 107 | WR | 635 | 60 | 170 | 1.5 | 240 | 1 | 0.4 | | | 1 |
| CVE-03 | 204 | WR | 635 | 60 | 170 | 1.5 | 240 | 1 | 0.4 | | | 1 |

Remarks:
1. THE UNIT SHALL BE PROVIDED WITH A BUILT-IN ACCESSIBLE TOP MOUNTED THERMOSTAT.

LOUVRED PENTHOUSE SCHEDULE
PORT WELLER SEARCH AND RESCUE STATION

Date: 2021-07-26
CEL Project No. R.079827.001
Revision No.:

| Tag No. | Air Flow cfm (l/s) | Size Of Penthouse LxWxH (mm) | Roof Opening (mm) | No. of Active Sides | Manufacturer | Model No. | Remarks |
|---------|--------------------|------------------------------|-------------------|---------------------|--------------|-----------|---------|
| LPH-01 | 1200 (566) | 1050x750x300 | 400x700 | 4 | | | |

PUMP SCHEDULE
PORT WELLER SEARCH AND RESCUE STATION

Date: 2021-07-26
CEL Project No. R.079827.001
Revision No.:

| Tag No. | Location | | Description | GPM (L/S) | Head ft (m) | Motor | | | | | Control | Active/Standby | Manufacturer | Model | Remarks | |
|---------|-----------|----------------------|---------------------------|-----------|-------------|-------|----|------|------|------|---------|----------------|--------------|---------|---------|---------|
| | Space No. | Space Name | | | | Volts | PH | HP | RPM | Type | | | | | | Starter |
| P-01A | 303 | WATER TREATMENT ROOM | DCW BOOSTER PUMP | 50 (3.2) | 150 (46) | 230 | 1 | 5 | 3500 | ODP | MAG | Normal | Local | Active | | 2 |
| P-01B | 303 | WATER TREATMENT ROOM | DCW BOOSTER PUMP | 50 (3.2) | 150 (46) | 230 | 1 | 5 | 3500 | ODP | MAG | Normal | Local | Standby | | 2 |
| P-02 | 303 | WATER TREATMENT ROOM | STORAGE TANK RECIRCULATOR | 5 (0.3) | 15 (4.6) | 115 | 1 | 1/12 | 2650 | ODP | MAG | Normal | Local | Active | | 2 |
| P-03 | | | PUMPING STATION | 20 (1.3) | 20 (6.1) | 230 | 1 | 1 | 3500 | TEFC | MAG | Normal | Local | Active | | 1 |
| P-04 | | | ANAEROBIC DIGESTER TANK | 20 (1.3) | 30 (9.1) | 230 | 1 | 0.5 | 3500 | TEFC | MAG | Normal | Local | Active | | 1 |
| P-05 | | | BASKET BIOFILTER TANK | 20 (1.3) | 60 (18.3) | 230 | 1 | 1 | 3500 | TEFC | MAG | Normal | Local | Active | | 1 |
| P-06 | | | WELL PUMP | 11 (0.7) | 230 (70.1) | 230 | 1 | 0.75 | 3450 | | MAG | Normal | Local | Active | | 2, 3 |

Remarks:
1. REFER TO SPECIFICATION SECTION 220510.
2. REFER TO SPECIFICATION SECTION 221010.
3. PUMP SHALL BE PLACED IN A FLOW SLEEVE FOR OPTIMUM SERVICE LIFE.

LOUVER SCHEDULE
PORT WELLER SEARCH AND RESCUE STATION

Date: 2021-07-26
CEL Project No. R.079827.001
Revision No.:

| Tag No. | Air System | Air Flow cfm (l/s) | SIZE (mm) | | | Manufacturer | Model No. | Remarks |
|---------|--------------------|--------------------|-----------|-------|--------|--------------|-----------|---------|
| | | | Length | Width | Height | | | |
| LV-01 | HRU-01 Exhaust Air | 420 (198) | 700 | 600 | | | | 1 |
| LV-02 | SF-01 Outside Air | 200 (95) | 300 | 300 | | | | 1 |
| LV-03 | SF-01 Exhaust Air | 200 (95) | 300 | 300 | | | | 1 |
| LV-04 | SF-02 Outside Air | 200 (95) | 300 | 300 | | | | 1 |
| LV-05 | SF-02 Exhaust Air | 200 (95) | 300 | 300 | | | | 1 |

Remarks:
1. FINISH COLOR TO BE COORDINATED WITH DEPARTMENTAL REPRESENTATIVE.

HEAT RECOVERY UNIT SCHEDULE
PORT WELLER SEARCH AND RESCUE STATION

Date: 2021-07-26
CEL Project No. R.079827.001
Revision No.:

| Tag No. | Location | | Supply cfm (l/s) | Exhaust cfm (l/s) | ESP iwg (Pa) | Summer Supply (°C) | | | | Summer Exhaust (°C) | | | | Summer Energy Recovered kW (Tons) | Winter Supply (°C) | | | | Winter Exhaust (°C) | | | | Winter Energy Recovered kW (MBH) | MOP (A) | Remarks |
|---------|-----------|-----------------|------------------|-------------------|--------------|--------------------|--------|--------|--------|---------------------|--------|--------|--------|-----------------------------------|--------------------|--------|--------|--------|---------------------|--------|--------|--------|----------------------------------|---------|---------|
| | Space No. | Space Name | | | | EAT DB | EAT WB | LAT DB | LAT WB | EAT DB | EAT WB | LAT DB | LAT WB | | EAT DB | EAT WB | LAT DB | LAT WB | EAT DB | EAT WB | LAT DB | LAT WB | | | |
| HRU-01 | 115 | MECHANICAL ROOM | 1200 (565) | 420 (200) | 0.6 (150) | 32°C | 23°C | 29°C | 22°C | 24°C | 17°C | - | - | 4.4 (1.25) | -20°C | -20°C | -7°C | -7°C | 22°C | 12°C | - | - | 7.62 (26) | 15 | 1 |

Remarks:
1. ELECTRICAL REQUIREMENTS: 120V, 1PH, 60HZ

HEAT PUMP SCHEDULE
PORT WELLER SEARCH AND RESCUE STATION

Date: 2021-07-26
CEL Project No. R.079827.001
Revision No.:

| Tag No. | Location | | Area Served | AIR | | | COOLING | | | | | | | | HEATING MBH (W) | ELECTR. | | | Weight (kg) | Manufacturer | Model No. | Remarks |
|---------|-----------|--|--|---------------|---------------|---------------|--------------|---------------|----------------|----------------|----------------|----------------|-------------|-----|-----------------|---------|----|--|-------------|--------------|-----------|---------|
| | Space No. | Space Name | | S/A cfm (l/s) | O/A cfm (l/s) | AP in.wg (Pa) | BH Sens (W) | BH Total (W) | EAT DB °F (°C) | EAT WB °F (°C) | LAT DB °F (°C) | LAT WB °F (°C) | V | PH | | MCA | | | | | | |
| HP-01 | 200 | VESTIBULE | 205 CO OFFICE | 255 (120) | 25 (12) | 0.2 (50) | 6000 (1760) | 8000 (2345) | 76 (24.4) | 65 (18.3) | 55 (12.8) | 54 (12.2) | 13.5 (3955) | 230 | 1 | 1.4 | 28 | | | | | |
| HP-02 | 201 | MULTIPURPOSE TRAINING/WORKSTATION AREA | 203 ENGINEER'S OFFICE | 210 (100) | 25 (12) | 0.2 (50) | 5000 (1465) | 6000 (1750) | 76 (24.4) | 65 (18.3) | 55 (12.8) | 54 (12.2) | 10.5 (3075) | 230 | 1 | 0.6 | 25 | | | | | |
| HP-03 | 201 | MULTIPURPOSE TRAINING/WORKSTATION AREA | 201 MULTIPURPOSE TRAINING/WORKSTATION AREA | 570 (270) | 200 (95) | 0.3 (75) | 16000 (4690) | 22000 (6450) | 80 (26.7) | 68 (20) | 55 (12.8) | 54 (12.2) | 20 (5860) | 230 | 1 | 2.8 | 46 | | | | | |
| HP-04 | 116 | LAUNDRY/MUDROOM | 100 READY ROOM & VESTIBULE | 745 (352) | 180 (85) | 0.4 (100) | 18000 (5275) | 25000 (7325) | 78 (25.6) | 66 (18.9) | 55 (12.8) | 54 (12.2) | 40 (11725) | 230 | 1 | 2.9 | 46 | | | | | |
| HP-05 | 103 | KITCHEN | 101/102/103 DINING/LIVING/KITCHEN | 1270 (600) | 425 (200) | 0.4 (100) | 33000 (9670) | 47000 (13775) | 86 (30) | 73 (22.8) | 55 (12.8) | 54 (12.2) | 60 (17585) | 230 | 1 | 3.4 | 47 | | | | | |
| HP-06 | 103 | KITCHEN | 104 FITNESS ROOM | 600 (283) | 220 (105) | 0.3 (75) | 16000 (4690) | 23000 (6740) | 79 (26.1) | 67 (19.4) | 55 (12.8) | 54 (12.2) | 34 (9965) | 230 | 1 | 2.8 | 46 | | | | | |
| HP-07 | 118 | CORRIDOR | 108/109 BEDROOMS | 325 (153) | 50 (24) | 0.3 (75) | 8000 (2345) | 10000 (2930) | 77 (25) | 66 (18.9) | 55 (12.8) | 54 (12.2) | 20 (5860) | 230 | 1 | 1.6 | 36 | | | | | |
| HP-08 | 118 | CORRIDOR | 112/113/114 BEDROOMS | 440 (208) | 75 (35) | 0.3 (75) | 10000 (2930) | 14000 (4105) | 78 (25.6) | 66 (18.9) | 55 (12.8) | 54 (12.2) | 27 (7915) | 230 | 1 | 1.8 | 36 | | | | | |
| HP-09 | 105B | TELECOM CLOSET | 105B TELECOM CLOSET | 465 (220) | 0 | NA | 10044 (2945) | 10044 (2945) | 75 (23.9) | 63 (17.2) | 55 (12.8) | 54 (12.2) | NA | 230 | 1 | 12.2 | 8 | | | ONLY COOLING | | |

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| 1 | ISSUED FOR TENDER | 2021-07-26 |
| revision | | date |

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DEPARTMENT OF FISHERIES AND OCEANS
SEARCH & RESCUE STATION
ST. CATHARINES
DEMOLITION, RENOVATION,
AND NEW CONSTRUCTION

drawing title
titre du dessin
SCHEDULES MECHANICAL GENERAL

drawn by
dessiné par SA

designed by
conc par OH

approved by
approuvé par AP

bid offer
offre KG

project manager
administrateur de projets

project date
date du projet
2021-07-26

project no.
no. du projet
R.079827.001

drawing no.
dessiné no.
M002

UNIT HEATER SCHEDULE
PORT WELLER SEARCH AND RESCUE STATION

Date: 2021-07-26
CEL Project No. R.079827.001
Revision No.:

| Tag No. | Location | | Air Flow cfm (l/s) | MBH [kW] | V | PH | Manufacturer | Model No. | Remarks |
|---------|-----------|-----------------|-----------------------|--------------|-----|----|--------------|-----------|---------|
| | Space No. | Space Name | | | | | | | |
| UHE-01 | 115 | MECHANICAL ROOM | 250 (120) | 5.1 (1.5) | 230 | 1 | | | |

INSTANTANEOUS ELECTRIC HOT WATER HEATER SCHEDULE
PORT WELLER SEARCH AND RESCUE STATION

Date: 2021-07-26
CEL Project No. R.079827.001
Revision No.:

| Tag No. | Location (Space No.) | Location (Space Name) | Heating Capacity (kW) | Efficiency | V | PH | Amp | Manufacturer | Model No. | Remarks |
|---------|-------------------------|--------------------------|-----------------------------|------------|-----|----|------|--------------|-----------|---------|
| HWIE-01 | 302 | WASH-UP SINK/VESTIBULE | 7.5 | 99% | 240 | 1 | 32.0 | | | 1 |

Remarks:
1. MAXIMUM 120°F (49°C) TEMPERATURE AT POINT OF USE.

ELECTRIC HOT WATER TANK HEATER SCHEDULE
PORT WELLER SEARCH AND RESCUE STATION

Date: 2021-07-26
CEL Project No. R.079827.001
Revision No.:

| Tag No. | Location (Space No.) | Location (Space Name) | Heating Capacity (W) | Efficiency (%) | Recovery @ 100°F (38°C) Temp Rise GPH (l/h) | Storage Capacity GALLON (Litre) | Dimensions HxD (mm) | Manufacturer | Model No. | Remarks |
|---------|-------------------------|--------------------------|----------------------------|-------------------|--|--|------------------------|--------------|-----------|---------|
| HWT-01 | 115 | MECHANICAL ROOM | 4500 | 100 | 18.6 (70.41) | 105 (400) | 1786x768 | | | 1, 2 |
| HWT-02 | 115 | MECHANICAL ROOM | 3000 | 100 | 12.4 (46.94) | 40 (152) | 1565x555 | | | 1, 2 |

Remarks:
1. ELECTRICAL REQUIREMENTS: 240V, 1PH, 60HZ.
2. DOUBLE HEATING ELEMENT.

RESIDENTIAL PORTABLE ELECTRIC HUMIDIFIER SCHEDULE
PORT WELLER SEARCH AND RESCUE STATION

Date: 2021-07-26
CEL Project No.: R.079827.001
Revision No.:

| Tag No. | Location | | Load (Lbs/hr) | V | PH | Power (W) | Manufacturer | Model No. | Remarks |
|---------|-----------|--|------------------|-----|----|--------------|--------------|-----------|---------------|
| | Space No. | Space Name | | | | | | | |
| HUE-01 | 205 | CO Office | 0.5 | 120 | 1 | 60 | | | 1, 2, 3, 4, 5 |
| HUE-02 | 203 | Engineer's Office | 0.5 | 120 | 1 | 60 | | | 1, 2, 3, 4, 5 |
| HUE-03 | 201 | Multipurpose Training/Workstation Area | 4.0 | 120 | 1 | 60 | | | 1, 2, 3, 4, 5 |
| HUE-04 | 102 | Living | 4.0 | 120 | 1 | 60 | | | 1, 2, 3, 4, 5 |
| HUE-05 | 114 | Bedroom 1 | 0.5 | 120 | 1 | 60 | | | 1, 2, 3, 4, 5 |
| HUE-06 | 113 | Bedroom 2 | 0.5 | 120 | 1 | 60 | | | 1, 2, 3, 4, 5 |
| HUE-07 | 112 | Bedroom 3 | 0.5 | 120 | 1 | 60 | | | 1, 2, 3, 4, 5 |
| HUE-08 | 109 | Bedroom 4 | 0.5 | 120 | 1 | 60 | | | 1, 2, 3, 4, 5 |
| HUE-09 | 108 | Bedroom 5 | 0.5 | 120 | 1 | 60 | | | 1, 2, 3, 4, 5 |

Remarks:
1. RESIDENTIAL PORTABLE PLUG-IN HUMIDIFIER.
2. ADJUSTABLE HUMIDITY CONTROL & OUTPUT SETTINGS.
3. AUTO SHUT OFF WHEN EMPTY.
4. FINISH COLOR SHALL BE COORDINATED WITH THE DEPARTMENTAL REPRESENTATIVE.
5. THIS IS FOR INFORMATION PURPOSES ONLY. THE EQUIPMENT TO BE SUPPLIED BY THE OWNER.

ELECTRIC DUCT HEATER SCHEDULE
PORT WELLER SEARCH AND RESCUE STATION

Date: 2021-07-26
CEL Project No. R.079827.001
Revision No.:

| Tag No. | Location | | Location Served | AIR | | | | V | PH | kW | Staged /SCR | Dimensions mm (in) | Manufacturer | Model No. | Remarks |
|---------|-----------|--|--|-----------------------|------------------|-------------|-------------|-----|----|------|----------------|------------------------------|--------------|-----------|---------|
| | Space No. | Space Name | | Air Flow cfm (l/s) | ΔP in.wg (Pa) | EAT (°C) | LAT (°C) | | | | | | | | |
| RHE-01 | 200 | VESTIBULE | 205 CO OFFICE | 255 (120) | 0.1 (25) | 17.8 | 28.9 | 230 | 1 | 1.5 | SCR | 19 x 9 x 5 (485x230x130) | | | |
| RHE-02 | 201 | MULTIPURPOSE TRAINING/WORKSTATION AREA | 203 ENGINEER'S OFFICE | 210 (100) | 0.1 (25) | 17.2 | 26.6 | 230 | 1 | 1.2 | SCR | 13 x 9 x 5 (330x230x130) | | | |
| RHE-03 | 201 | MULTIPURPOSE TRAINING/WORKSTATION AREA | 201 MULTIPURPOSE TRAINING/WORKSTATION AREA | 570 (270) | 0.1 (25) | 7.1 | 28.9 | 230 | 1 | 7.0 | SCR | 46 x 9 x 5 (1170x230x130) | | | |
| RHE-04 | 116 | LAUNDRY/MUDROOM | 100 READY ROOM & VESTIBULE | 745 (352) | 0.1 (25) | 11.7 | 29.4 | 230 | 1 | 7.3 | SCR | 46 x 9 x 5 (1170x230x130) | | | |
| RHE-05 | 103 | KITCHEN | 101/102/103 DINING/LIVING/KITCHEN | 1270 (600) | 0.1 (25) | 7.7 | 29.4 | 230 | 1 | 14.6 | SCR | 46 x 9 x 5 (1170x230x130) | | | |
| RHE-06 | 103 | KITCHEN | 104 FITNESS ROOM | 600 (283) | 0.1 (25) | 6.6 | 28.8 | 230 | 1 | 7.6 | SCR | 46 x 9 x 5 (1170x230x130) | | | |
| RHE-07 | 118 | CORRIDOR | 108/109 BEDROOMS | 325 (153) | 0.1 (25) | 15.5 | 29.4 | 230 | 1 | 2.6 | SCR | 30 x 9 x 5 (760x230x130) | | | |
| RHE-08 | 118 | CORRIDOR | 112/113/114 BEDROOMS | 440 (208) | 0.1 (25) | 16.4 | 29.4 | 230 | 1 | 3.5 | SCR | 30 x 9 x 5 (760x230x130) | | | |
| RHE-09 | 301 | ELECTRICAL ROOM (GARAGE) | 301 ELECTRICAL ROOM (GARAGE) | 200 (95) | 0.1 (25) | 5.0 | 9.0 | 230 | 1 | 0.5 | SCR | 13 x 9 x 5 (330x230x130) | | | |
| RHE-10 | 303 | WATER TREATMENT ROOM (GARAGE) | 303 WATER TREATMENT ROOM (GARAGE) | 200 (95) | 0.1 (25) | 5.0 | 9.0 | 230 | 1 | 0.5 | SCR | 13 x 9 x 5 (330x230x130) | | | |

SUPPLY FAN SCHEDULE
PORT WELLER SEARCH AND RESCUE STATION

Date: 2021-07-26
CEL Project No.: R.079827.001
Revision No.:

| Tag No. | SF-01 | SF-02 |
|-----------------------------------|--------------------------|-------------------------------|
| Location (Space No.) | 301 | 303 |
| Location (Space Name) | ELECTRICAL ROOM (GARAGE) | WATER TREATMENT ROOM (GARAGE) |
| Air Flow cfm (l/s) | 200 (95) | 200 (95) |
| ESP in.wg (Pa) | 0.25 (62) | 0.25 (62) |
| Fan RPM | 1097 | 1097 |
| BHP | | |
| Fan Arrangement | INLINE | INLINE |
| Manufacturer | | |
| Model No. | | |
| MOTOR CHARACTERISTICS | | |
| RPM | 1050 | 1050 |
| Type | ODP | ODP |
| Starter | MAG | MAG |
| ELECTRICAL CHARACTERISTICS | | |
| V | 115 | 115 |
| Phase | 1 | 1 |
| Power [hp] | 1/6 | 1/6 |
| MCA | | |
| Power Type | Normal | Normal |
| Active / Standby | Active | Active |
| Control | Local | Local |
| SOUND CHARACTERISTICS | | |
| Octave Band 1 | 68 | 68 |
| Octave Band 2 | 62 | 62 |
| Octave Band 3 | 60 | 60 |
| Octave Band 4 | 52 | 52 |
| Octave Band 5 | 48 | 48 |
| Octave Band 6 | 43 | 43 |
| Octave Band 7 | 36 | 36 |
| Octave Band 8 | 28 | 28 |
| Average | 55 | 55 |
| REMARKS | | |

NOTE:
1. A PHYSICAL TAG SHALL BE PLACED ON ALL EQUIPMENT ON SITE TO MATCH THE EQUIPMENT SCHEDULE.

EXHAUST FAN SCHEDULE
PORT WELLER SEARCH AND RESCUE STATION

Date: 2021-07-26
CEL Project No. R.079827.001
Revision No.:

| Tag No. | EF-01 |
|-----------------------------------|----------------------|
| Location (Space No.) | |
| Location (Space Name) | OFFICE BUILDING ROOF |
| Description | WASHROOM EXHAUST |
| Air Flow cfm (l/s) | 100 (47) |
| ESP in.wg (Pa) | 0.25 (62) |
| Fan RPM | 1239 |
| BHP | |
| Fan Arrangement | DOWNBLAST |
| Manufacturer | |
| Model No. | |
| MOTOR CHARACTERISTICS | |
| RPM | 1550 |
| Type | ODP |
| Starter | MAG |
| ELECTRICAL CHARACTERISTICS | |
| Voltage | 115 |
| Phase | 1 |
| Power [hp] | 1/20 |
| MCA | |
| Power Type | Normal |
| Active / Standby | Active |
| Control | Local |
| SOUND CHARACTERISTICS | |
| Octave Band 1 | 63 |
| Octave Band 2 | 61 |
| Octave Band 3 | 58 |
| Octave Band 4 | 48 |
| Octave Band 5 | 44 |
| Octave Band 6 | 42 |
| Octave Band 7 | 36 |
| Octave Band 8 | 32 |
| Average | 53 |
| REMARKS | |

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| revision | | date |

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project title
titre du projet
PORT WELLER ONTARIO
DEPARTMENT OF FISHERIES AND OCEANS
SEARCH & RESCUE STATION
ST. CATHARINES
DEMOLITION, RENOVATION,
AND NEW CONSTRUCTION

drawing title
titre du dessin
SCHEDULES
MECHANICAL GENERAL

drawn by
dessiné par SA

designed by
conc par OH

approved by
approuvé par AP

bid
offre KG project manager
administrateur
de projets

project date
date du projet 2021-07-26

project no.
no. du projet
R.079827.001

drawing no.
dessiné no.
M003

NOTE:
1. A PHYSICAL TAG SHALL BE PLACED ON ALL EQUIPMENT ON SITE TO MATCH THE EQUIPMENT SCHEDULE.

| GRILLE AND DIFFUSER SCHEDULE PORT WELLER SEARCH AND RESCUE STATION | | | | | | | | | | |
|---|-----------|---------------------------|-----------------------|-------------|-----------|-------|------|--------------|-----------|---------|
| Date: 2021-07-26 CEL Project No. R.079827.001 Revision No.: | | | | | | | | | | |
| Tag No. | Location | | Air Flow cfm (l/s) | Type Tag | SIZE [mm] | | | Manufacturer | Model No. | Remarks |
| | Space No. | Space Name | | | Length | Width | Diam | | | |
| G-01 | 205 | CO OFFICE | 255 (120) | JS2 | 2200 | 100 | | | | 1 |
| G-02 | 205 | CO OFFICE | 255 (120) | JR2 | 2200 | 100 | | | | 1 |
| G-03 | 203 | ENGINEER'S OFFICE | 210 (100) | JS2 | 1800 | 100 | | | | 1 |
| G-04 | 203 | ENGINEER'S OFFICE | 210 (100) | JR2 | 1800 | 100 | | | | 1 |
| G-05 | 201 | MULTIPURP TRNG/WKSTN AREA | 140 (66) | JS2 | 1200 | 100 | | | | 1 |
| G-06 | 201 | MULTIPURP TRNG/WKSTN AREA | 430 (203) | JS2 | 3600 | 100 | | | | 1 |
| G-07 | 201 | MULTIPURP TRNG/WKSTN AREA | 370 (175) | JR2 | 2700 | 100 | | | | 1 |
| G-08 | 100 | READY ROOM & VESTIBULE | 370 (175) | JS2 | 3200 | 100 | | | | 1 |
| G-09 | 100 | READY ROOM & VESTIBULE | 375 (177) | JS2 | 3200 | 100 | | | | 1 |
| G-10 | 100 | READY ROOM & VESTIBULE | 565 (267) | JR2 | 6000 | 100 | | | | 1 |
| G-11 | 101 | DINING | 205 (97) | JS2 | 2000 | 100 | | | | 1 |
| G-12 | 101 | DINING | 355 (168) | JS2 | 3000 | 100 | | | | 1 |
| G-13 | 102 | LIVING | 355 (168) | JS2 | 3000 | 100 | | | | 1 |
| G-14 | 102 | LIVING | 355 (168) | JS2 | 3000 | 100 | | | | 1 |
| G-15 | 103 | KITCHEN | 575 (272) | JR2 | 4400 | 100 | | | | 1 |
| G-16 | 118 | CORRIDOR | 270 (128) | JR2 | 2100 | 100 | | | | 1 |
| G-17 | 104 | FITNESS ROOM | 300 (142) | JS2 | 3100 | 100 | | | | 1 |
| G-18 | 104 | FITNESS ROOM | 300 (142) | JS2 | 3100 | 100 | | | | 1 |
| G-19 | 104 | FITNESS ROOM | 380 (180) | JR2 | 3000 | 100 | | | | 1 |
| G-20 | 109 | BEDROOM 4 | 100 (48) | JS2 | 900 | 100 | | | | 1 |
| G-21 | 109 | BEDROOM 4 | 100 (48) | JS2 | 900 | 100 | | | | 1 |
| G-22 | 109 | BEDROOM 4 | 200 (95) | JR2 | 1600 | 100 | | | | 1 |
| G-23 | 108 | BEDROOM 5 | 125 (60) | JS2 | 1100 | 100 | | | | 1 |
| G-24 | 108 | BEDROOM 5 | 125 (60) | JR2 | 1100 | 100 | | | | 1 |
| G-25 | 114 | BEDROOM 1 | 120 (57) | JS2 | 1100 | 100 | | | | 1 |
| G-26 | 114 | BEDROOM 1 | 120 (57) | JR2 | 1100 | 100 | | | | 1 |
| G-27 | 113 | BEDROOM 2 | 120 (57) | JS2 | 1100 | 100 | | | | 1 |
| G-28 | 113 | BEDROOM 2 | 120 (57) | JR2 | 1100 | 100 | | | | 1 |
| G-29 | 112 | BEDROOM 3 | 100 (47) | JS2 | 900 | 100 | | | | 1 |
| G-30 | 112 | BEDROOM 3 | 200 (95) | JR2 | 1600 | 100 | | | | 1 |
| G-31 | 112 | BEDROOM 3 | 100 (47) | JS2 | 900 | 100 | | | | 1 |
| G-32 | 107 | WASHROOM | 100 (47) | G1 | 250 | 250 | | | | 1 |
| G-33 | 106 | B/F WASHROOM | 100 (47) | G1 | 250 | 250 | | | | 1 |
| G-34 | 204 | WR | 100 (47) | G1 | 250 | 250 | | | | 1 |
| G-35 | 116 | LAUNDRY/MUDROOM | 220 (105) | G1 | 350 | 350 | | | | 1 |

Remarks:
1. FINISH COLOR TO BE COORDINATED WITH DEPARTMENTAL REPRESENTATIVE.

| EXPANSION TANK SCHEDULE PORT WELLER SEARCH AND RESCUE STATION | | | | | | | | | | | | |
|--|-----------|-----------------|-------------|---------------------|-------------|--------------------|--------------|-----------------|---------------|--------------|-------|---------|
| Date: 2021-07-26 CEL Project No.: R.079827.001 Revision No.: | | | | | | | | | | | | |
| TAG NO. | Location | | Description | Temperature °F [°C] | | Pressure PSI [kPa] | | Volume Gal. [L] | | Manufacturer | Model | Remarks |
| | Space No. | Space Name | | MIN | MAX | MIN | MAX | EXPANDED | TOTAL | | | |
| ET-01 | 115 | MECHANICAL ROOM | HOT WATER | 40 (4.4) | 120 (49) | 50 (345) | 100 (690) | 3.2 (12.1) | 4.4 (16.7) | | | |

| PRESSURE TANK SCHEDULE PORT WELLER SEARCH AND RESCUE STATION | | | | | | | | | |
|---|-------------------------|--------------------------|--------------------------------|--------------------------------------|---------------------|-----------------------|--------------|-----------|---------|
| Date: 2021-07-26 CEL Project No. R.079827.001 Revision No.: | | | | | | | | | |
| Tag No. | Location (Space No.) | Location (Space Name) | TANK VOLUME GAL. (Litre) | ACCEPTANC E VOLUM GAL. (Litre) | DIMENSIONS (mm) | | Manufacturer | Model No. | Remarks |
| | | | | | HEIGHT inch (mm) | DIAMETER inch (mm) | | | |
| PT-01 | 303 | WATER TREATMENT ROOM | 119 (450) | 46.4 (175) | 62 (1575) | 26 (660) | | | 1, 2, 3 |
| PT-02 | 303 | WATER TREATMENT ROOM | 119 (450) | 46.4 (175) | 62 (1575) | 26 (660) | | | 1, 2, 3 |
| PT-03 | 303 | WATER TREATMENT ROOM | 119 (450) | 46.4 (175) | 62 (1575) | 26 (660) | | | 1, 2, 3 |

Remarks:
1. DESIGNED FOR POTABLE WELL WATER SYSTEM.
2. CONSTRUCTED AS PER ASME.
3. MAXIMUM WORKING PRESSURE: 125PSI (862kPa)

| WATER STORAGE TANK SCHEDULE PORT WELLER SEARCH AND RESCUE STATION | | | | | | | |
|--|-------------------------|--------------------------|-------------------|------------------------|--------------|-----------|---------|
| Date: 2021-07-26 CEL Project No. R.079827.001 Revision No.: | | | | | | | |
| Tag No. | Location (Space No.) | Location (Space Name) | Volume (Litre) | Dimensions HxD (mm) | Manufacturer | Model No. | Remarks |
| ST-01 | 303 | WATER TREATMENT ROOM | 2850 | 2731x1372 | | | 1, 2 |

Remarks:
1. MAXIMUM WORKING PRESSURE: 125PSI (862kPa).
2. TANK SHALL BE INSULATED WITH A MINIMUM OF 50MM OF RIGID POLYURETHANE FOAM INSULATION.

| MOTORIZED DAMPER SCHEDULE PORT WELLER SEARCH AND RESCUE STATION | | | | | | | | | | | | |
|--|-----------|------------------------|---------------|-----------|-----|-------|-----------------------|-------------------|-------------|-----------|-----------------|---------|
| Date: 2021-07-26 CEL Project No. R.079827.001 Revision No.: | | | | | | | | | | | | |
| Tag No. | Location | | System Served | Size (mm) | | | Air Flow cfm (l/s) | Velocity (m/s) | Orientation | Actuator | Status | Remarks |
| | Space No. | Space Name | | W | H | Diam. | | | | | | |
| MD-01 | 301 | GARAGE ELECTRICAL ROOM | SF-01 | | | 200 | 200 (94) | 3.0 | VERTICAL | MOTORIZED | NORMALLY CLOSED | |
| MD-02 | 301 | GARAGE ELECTRICAL ROOM | SF-01 | | | 200 | 200 (94) | 3.0 | VERTICAL | MOTORIZED | NORMALLY OPEN | |
| MD-03 | 301 | GARAGE ELECTRICAL ROOM | SF-01 | 300 | 300 | | 200 (94) | 1.1 | VERTICAL | MOTORIZED | NORMALLY CLOSED | |
| MD-04 | 303 | WATER TREATMENT ROOM | SF-02 | | | 200 | 200 (94) | 3.0 | VERTICAL | MOTORIZED | NORMALLY CLOSED | |
| MD-05 | 303 | WATER TREATMENT ROOM | SF-02 | | | 200 | 200 (94) | 3.0 | VERTICAL | MOTORIZED | NORMALLY OPEN | |
| MD-06 | 303 | WATER TREATMENT ROOM | SF-02 | 300 | 300 | | 200 (94) | 1.1 | VERTICAL | MOTORIZED | NORMALLY CLOSED | |

| FIRE DAMPER SCHEDULE PORT WELLER SEARCH AND RESCUE STATION | | | | | | | | | | | | |
|---|-----------|------------------|---------------|-----------|-----|------|-----------------------|-------------------|-------|-------------|-------------------|---------|
| Date: 2021-07-26 CEL Project No. R.079827.001 Revision No.: | | | | | | | | | | | | |
| Tag No. | Location | | System Served | Size (mm) | | | Air Flow cfm (l/s) | Velocity (m/s) | Style | Orientation | Type of Damper | Remarks |
| | Space No. | Space Name | | W | H | Diam | | | | | | |
| FRD-001 | 115 | MECHANICAL ROOM | HRU-01 | 700 | 600 | | 420 (198) | 0.5 | B | VERTICAL | STATIC | |
| FRD-002 | 115 | MECHANICAL ROOM | HRU-01 | 250 | 250 | | 220 (105) | 2.1 | B | VERTICAL | STATIC | |
| FRD-003 | 115 | MECHANICAL ROOM | HRU-01 | 250 | 200 | | 200 (95) | 1.9 | B | VERTICAL | STATIC | |
| FRD-004 | 115 | MECHANICAL ROOM | HRU-01 | 300 | 250 | | 430 (205) | 2.7 | B | VERTICAL | STATIC | |
| FRD-005 | 115 | MECHANICAL ROOM | HRU-01 | 350 | 250 | | 770 (365) | 4.2 | B | VERTICAL | STATIC | |
| FRD-006 | 105 | SSC & ELECT ROOM | HRU-01 | 250 | 150 | | 220 (105) | 2.8 | B | VERTICAL | STATIC | |
| FRD-007 | 105 | SSC & ELECT ROOM | HRU-01 | 250 | 150 | | 220 (105) | 2.8 | B | VERTICAL | STATIC | |
| FRD-008 | 202 | CORRIDOR | HRU-01 | 250 | 150 | | 250 (118) | 3.3 | B | VERTICAL | STATIC | |

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PORT WELLER ONTARIO
DEPARTMENT OF FISHERIES AND OCEANS
SEARCH & RESCUE STATION
ST. CATHARINES
DEMOLITION, RENOVATION,
AND NEW CONSTRUCTION

drawing title
titre du dessin
SCHEDULES
MECHANICAL GENERAL

drawn by
dessiné par Author

designed by
conçue par SS

approved by
approuvé par AP

bid
offre KG project manager
administrateur de projets

project date
date du projet 2021-07-26

project no.
no. du projet **R.079827.001**

drawing no.
dessiné no. **M004**

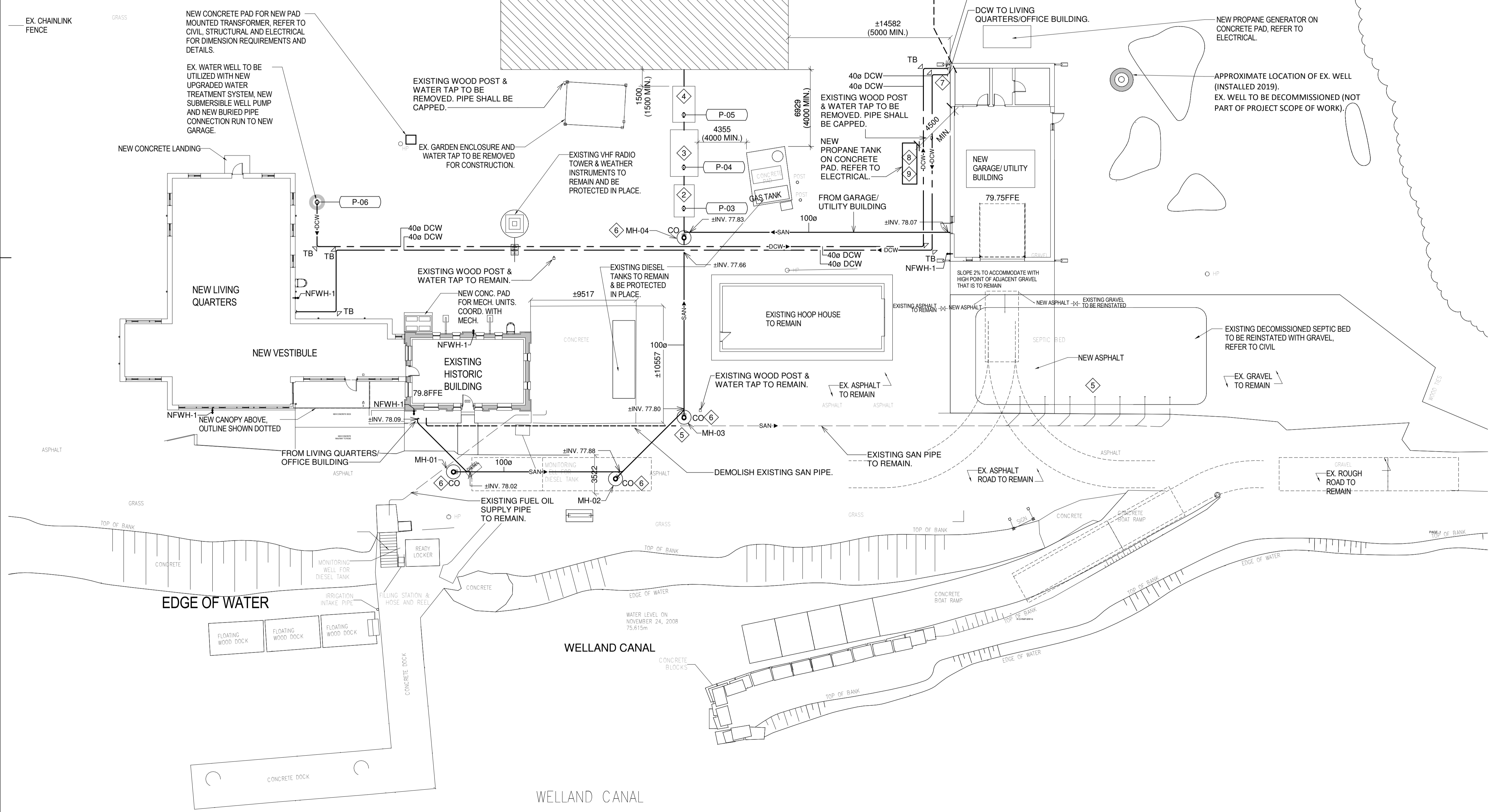
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GENERAL NOTE:

- CONTRACTOR SHALL COORDINATE THE ELEVATION OF BURIED MECHANICAL SERVICES WITH OTHER DISCIPLINE SERVICES TO AVOID ANY INTERFERENCE ISSUES.

CONSTRUCTION NOTES:

- PROVIDE NEW TYPE A DISPERSAL BED OF APPROXIMATELY 429 SQ. METERS.
- PROVIDE NEW PUMP IN PUMPING STATION (LxWxH = 1825 MM x 1825 MM x 3750 MM). REFER DETAIL-1 IN DRAWING M902.
- PROVIDE NEW ANAEROBIC DIGESTER TANK (LxWxH = 4204 MM x 2504 MM x 1830 MM + MINIMUM 457 MM (H) riser). REFER DETAIL-2 IN DRAWING M902.
- PROVIDE NEW BASKET BIOFILTER TANK = (LxWxH = 3255 MM x 2010 MM x 1955 MM). REFER DETAIL-3 IN DRAWING M902.
- CAP EXISTING SAN PIPE TO FACILITATE DECOMMISSIONING OF THE EXISTING SEPTIC BED.
- REFER TO M904 DETAIL#4 FOR MAINTENANCE HOLE.
- DCW PIPES SHALL RUN 1700mm BELOW GRADE. INSTALLATION DEPTHS FOR ALL BELOW-GRADE SERVICES TO BE COORDINATED PRIOR TO INSTALLATION TO AVOID INTERFERENCE ISSUES.
- CENTRE OF PROPANE TANK MUST BE WITHIN 24400MM OF TRUCK FOR FILLING. TANK SHALL BE LOCATED MINIMUM OF 3000MM FROM BUILDING, LOT LINE AND SOURCE OF IGNITION. MINIMUM OF 6000MM FROM FLAMMABLE FUEL STORAGE AND 4500MM FROM MECHANICAL AIR INTAKE.
- THE RENTAL PROPANE TANK IS SUPPLIED BY DEPARTMENTAL REPRESENTATIVE AND THE GENERAL CONTRACTOR IS RESPONSIBLE FOR DELIVERY OF TANK/ASSOCIATED PARTS, INSTALLATION OF THE TANK, SUPPLY LINE, REGULATOR, AND CONNECTION TO THE GENERATOR AND ALL COORDINATION WITH DEPARTMENTAL REPRESENTATIVE.



Public Works and Government Services Canada
Travaux publics et Services gouvernementaux Canada

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project title / titre du projet
PORT WELLER ONTARIO DEPARTMENT OF FISHERIES AND OCEANS SEARCH & RESCUE STATION ST. CATHARINES DEMOLITION, RENOVATION, AND NEW CONSTRUCTION

drawing title / titre du dessin
SITE PLAN- NEW SITE SERVICES

drawn by / dessiné par SA

designed by / conçu par OH

approved by / approuvé par AP

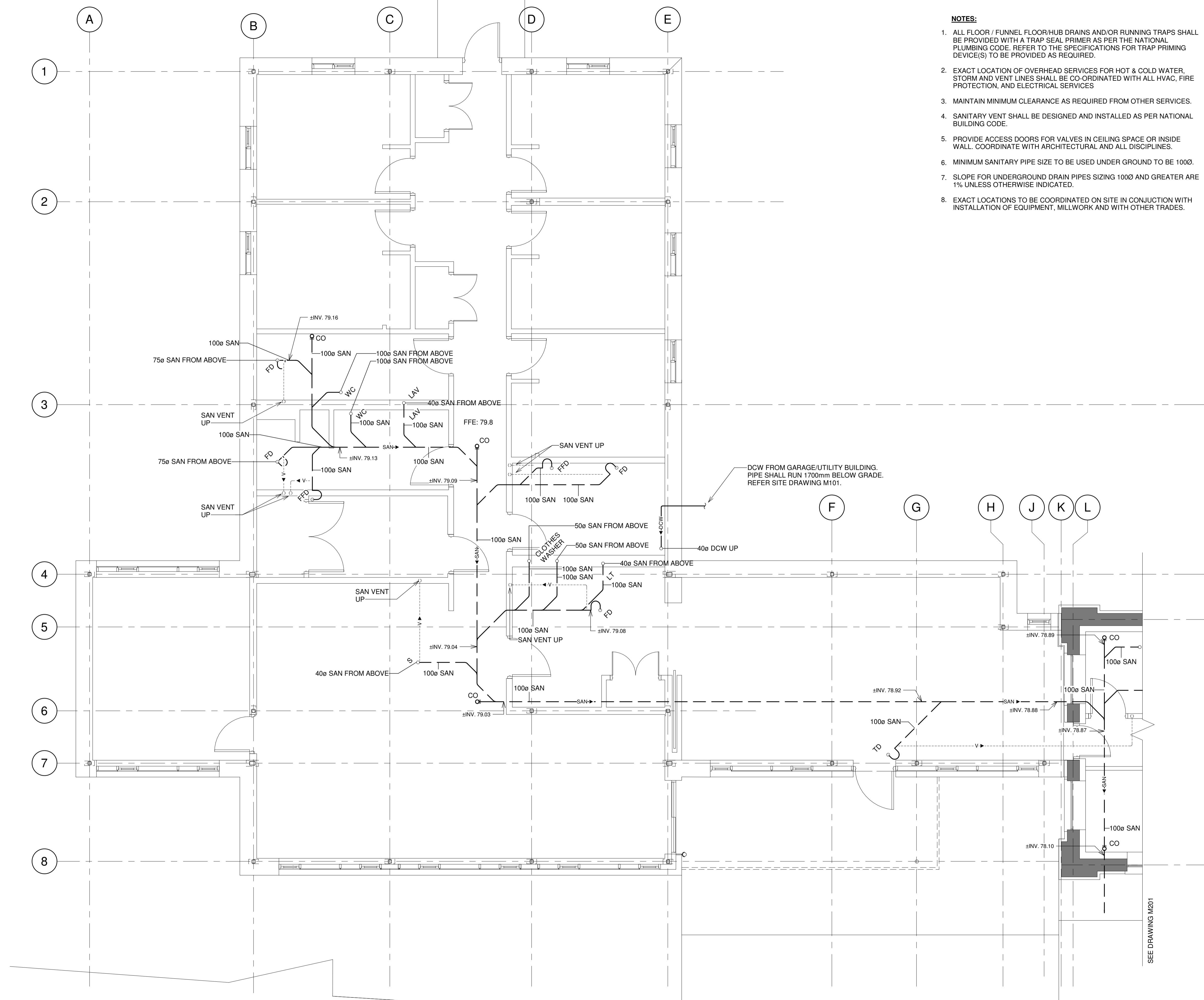
bid / offre KG project manager / administrateur de projets

project date / date du projet 2021-07-26

project no. / no. du projet R.079827.001

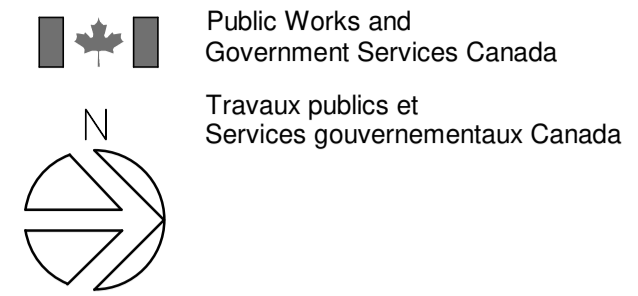
drawing no. / dessin no. M101

1 SITE PLAN - NEW
1:200



NOTES:

1. ALL FLOOR / FUNNEL FLOOR/HUB DRAINS AND/OR RUNNING TRAPS SHALL BE PROVIDED WITH A TRAP SEAL PRIMER AS PER THE NATIONAL PLUMBING CODE. REFER TO THE SPECIFICATIONS FOR TRAP PRIMING DEVICE(S) TO BE PROVIDED AS REQUIRED.
2. EXACT LOCATION OF OVERHEAD SERVICES FOR HOT & COLD WATER, STORM AND VENT LINES SHALL BE CO-ORDINATED WITH ALL HVAC, FIRE PROTECTION, AND ELECTRICAL SERVICES
3. MAINTAIN MINIMUM CLEARANCE AS REQUIRED FROM OTHER SERVICES.
4. SANITARY VENT SHALL BE DESIGNED AND INSTALLED AS PER NATIONAL BUILDING CODE.
5. PROVIDE ACCESS DOORS FOR VALVES IN CEILING SPACE OR INSIDE WALL. COORDINATE WITH ARCHITECTURAL AND ALL DISCIPLINES.
6. MINIMUM SANITARY PIPE SIZE TO BE USED UNDER GROUND TO BE 100Ø.
7. SLOPE FOR UNDERGROUND DRAIN PIPES SIZING 100Ø AND GREATER ARE 1% UNLESS OTHERWISE INDICATED.
8. EXACT LOCATIONS TO BE COORDINATED ON SITE IN CONJUNCTION WITH INSTALLATION OF EQUIPMENT, MILLWORK AND WITH OTHER TRADES.



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 DEPARTMENT OF FISHERIES AND OCEANS
 SEARCH & RESCUE STATION
 ST. CATHARINES
 DEMOLITION, RENOVATION,
 AND NEW CONSTRUCTION

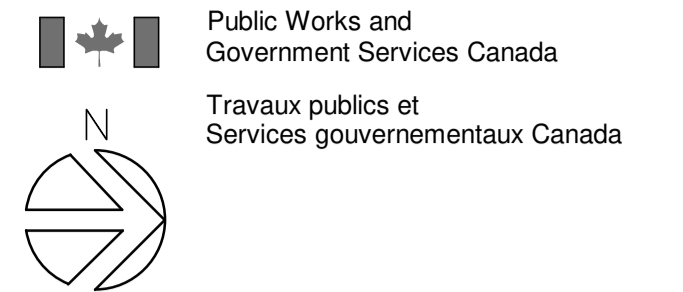
drawing title
 titre du dessin
LIVING QUARTERS
UNDERSLAB – NEW
PLUMBING AND DRAINAGE

| | | |
|--------------------------------|--------------|--|
| drawn by dessiné par | SA | project manager administrateur de projets |
| designed by conçu par | OH | |
| approved by approuvé par | AP | |
| bid offre | KG | |
| project date date du projet | 2021-07-26 | |
| project no. no. du projet | R.079827.001 | |
| drawing no. dessiné no. | M200 | |

1 LIVING QUARTERS UNDERSLAB – NEW
 1 : 50

NOTES:

1. ALL FLOOR / FUNNEL FLOOR/HUB DRAINS AND/OR RUNNING TRAPS SHALL BE PROVIDED WITH A TRAP SEAL PRIMER AS PER THE NATIONAL PLUMBING CODE. REFER TO THE SPECIFICATIONS FOR TRAP PRIMING DEVICE(S) TO BE PROVIDED AS REQUIRED.
2. EXACT LOCATION OF OVERHEAD SERVICES FOR HOT & COLD WATER, STORM AND VENT LINES SHALL BE CO-ORDINATED WITH ALL HVAC, FIRE PROTECTION, AND ELECTRICAL SERVICES
3. MAINTAIN MINIMUM CLEARANCE AS REQUIRED FROM OTHER SERVICES.
4. SANITARY VENT SHALL BE DESIGNED AND INSTALLED AS PER NATIONAL BUILDING CODE.
5. PROVIDE ACCESS DOORS FOR VALVES IN CEILING SPACE OR INSIDE WALL. COORDINATE WITH ARCHITECTURAL AND ALL DISCIPLINES.
6. MINIMUM SANITARY PIPE SIZE TO BE USED UNDER GROUND TO BE 100Ø.
7. SLOPE FOR UNDERGROUND DRAIN PIPES SIZING 100Ø AND GREATER ARE 1% UNLESS OTHERWISE INDICATED.
8. EXACT LOCATIONS TO BE COORDINATED ON SITE IN CONJUNCTION WITH INSTALLATION OF EQUIPMENT, MILLWORK AND WITH OTHER TRADES.



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project title
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PORT WELLER ONTARIO
 DEPARTMENT OF FISHERIES AND OCEANS
 SEARCH & RESCUE STATION
 ST. CATHARINES
 DEMOLITION, RENOVATION,
 AND NEW CONSTRUCTION

drawing title
 titre du dessin
**OFFICE BUILDING
 UNDERSLAB – NEW
 PLUMBING AND DRAINAGE**

drawn by
 dessiné par SA

designed by
 conçu par OH

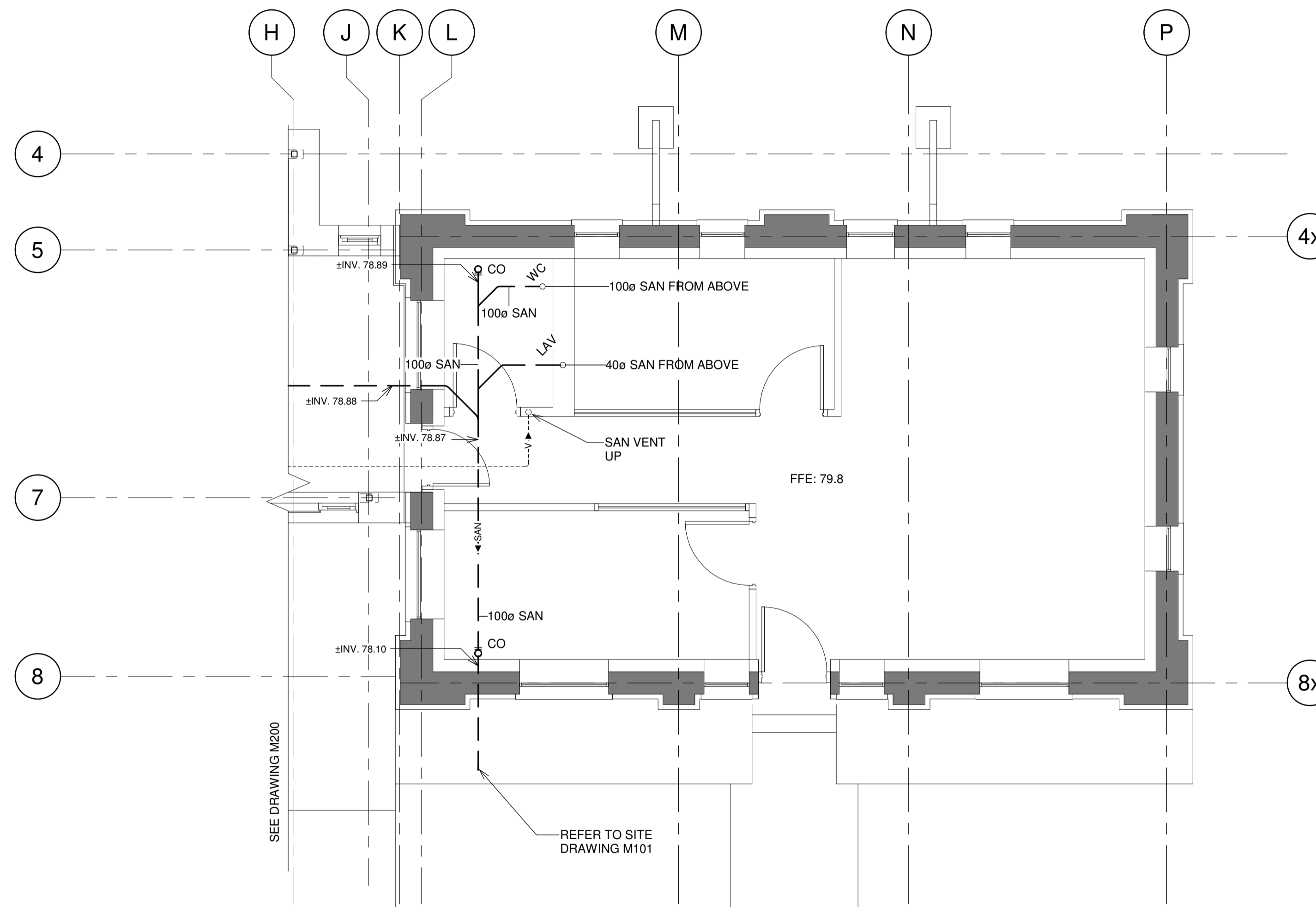
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 approuvé par AP

bid
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 administrateur de projets

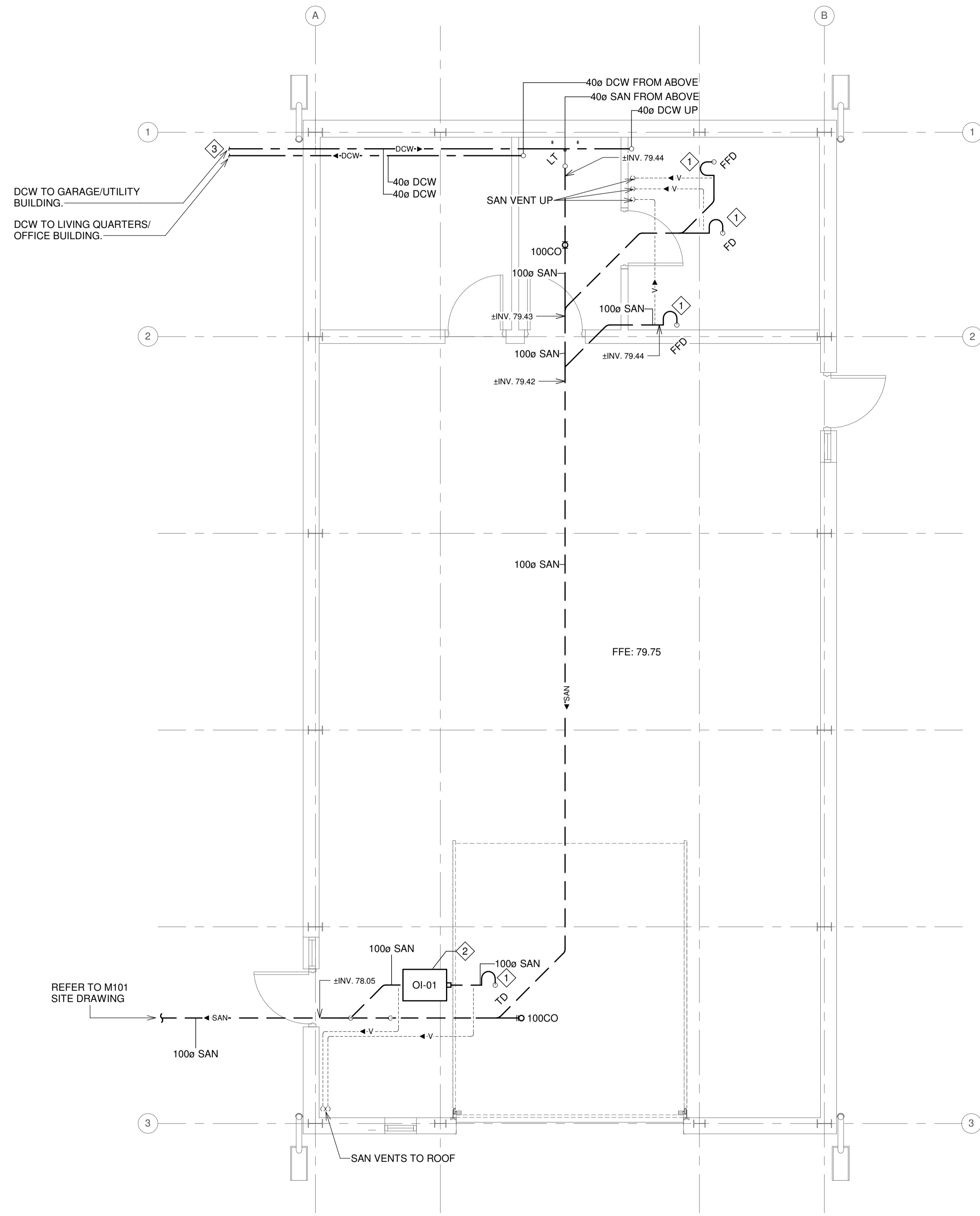
project date
 date du projet 2021-07-26

project no.
 no. du projet **R.079827.001**

drawing no.
 dessin no. **M201**



1 OFFICE BUILDING UNDERSLAB – NEW
 1 : 50



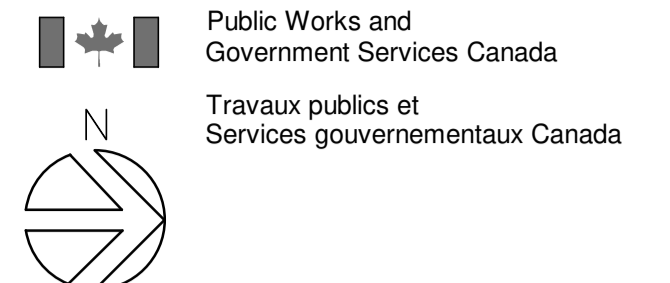
1 GARAGE/UTILITY BUILDING UNDERSLAB – NEW
1 : 50

NOTES:

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3. MAINTAIN MINIMUM CLEARANCE AS REQUIRED FROM OTHER SERVICES.
4. SANITARY VENT SHALL BE DESIGNED AND INSTALLED AS PER NATIONAL BUILDING CODE.
5. PROVIDE ACCESS DOORS FOR VALVES IN CEILING SPACE OR INSIDE WALL. COORDINATE WITH ARCHITECTURAL AND ALL DISCIPLINES.
6. MINIMUM SANITARY PIPE SIZE TO BE USED UNDER GROUND TO BE 100Ø.
7. SLOPE FOR UNDERGROUND DRAIN PIPES SIZING 100Ø AND GREATER ARE 1% UNLESS OTHERWISE INDICATED.
8. EXACT LOCATIONS TO BE COORDINATED ON SITE IN CONJUNCTION WITH INSTALLATION OF EQUIPMENT AND WITH OTHER TRADES.

CONSTRUCTION NOTES:

- 1 P-TRAPS SHALL BE HEAT TRACED.
- 2 REFER TO MECHANICAL SPECIFICATION SECTION 22 42 01 FOR OIL INTERCEPTOR SPECIFICATIONS.
- 3 PIPES SHALL RUN 1700mm BELOW GRADE. REFER SITE DWG. M101.



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PORT WELLER ONTARIO
DEPARTMENT OF FISHERIES AND OCEANS
SEARCH & RESCUE STATION
ST. CATHARINES
DEMOLITION, RENOVATION,
AND NEW CONSTRUCTION

drawing title
titre du dessin
GARAGE/UTILITY BUILDING
UNDERSLAB – NEW
PLUMBING AND DRAINAGE

drawn by
dessiné par SA

designed by
conçu par OH

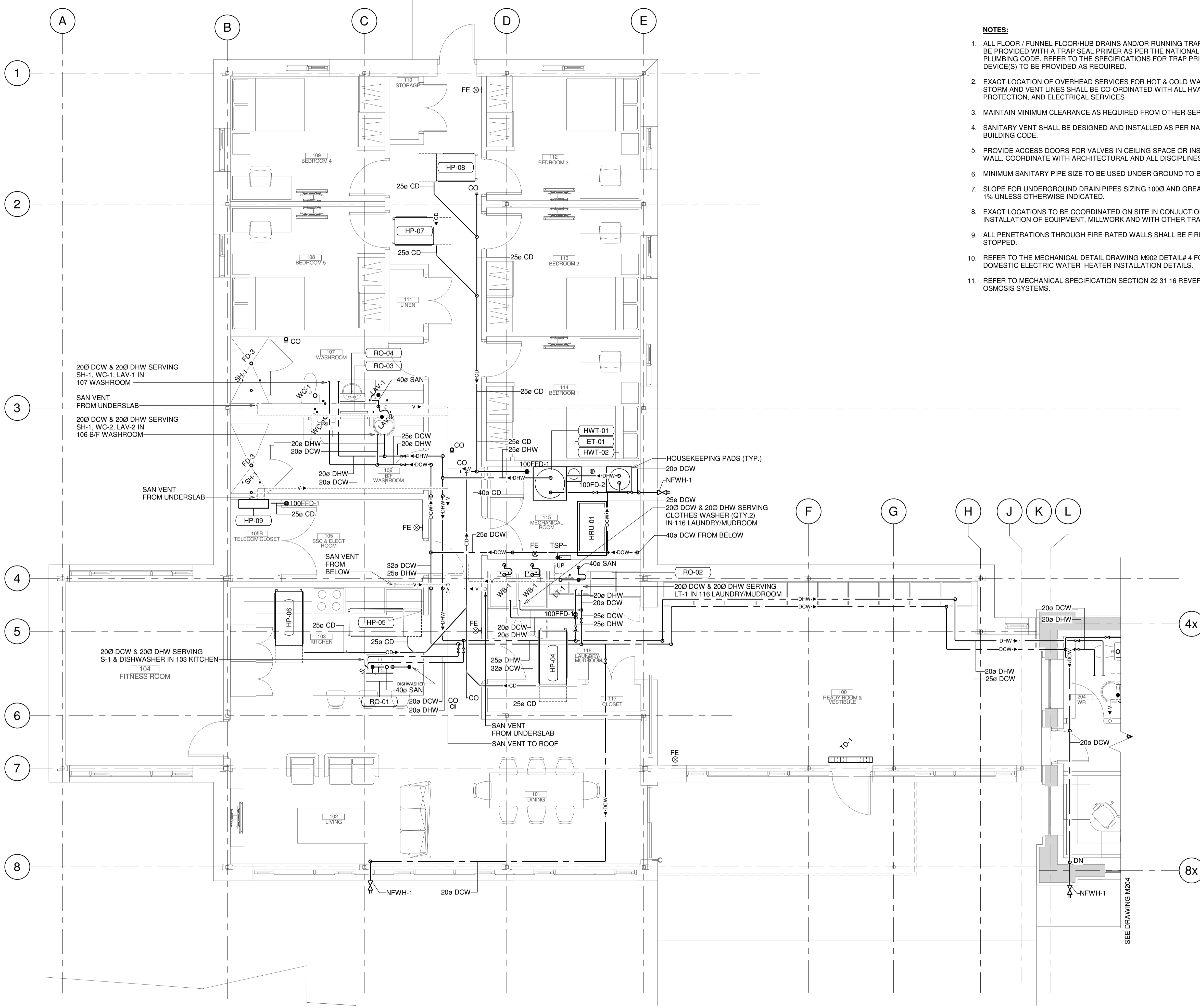
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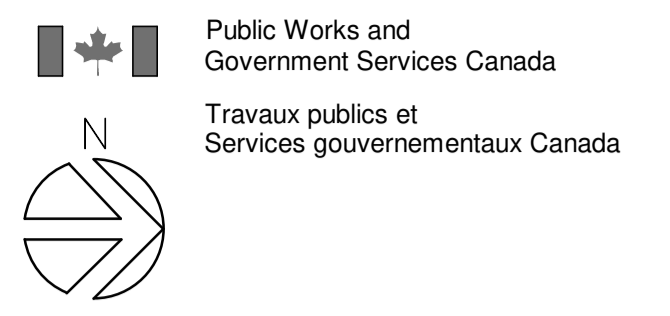
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date du projet 2021-07-26

project no.
no. du projet **R.079827.001**

drawing no.
dessiné no. **M202**



- NOTES:**
1. ALL FLOOR / FUNNEL FLOOR/HUB DRAINS AND/OR RUNNING TRAPS SHALL BE PROVIDED WITH A TRAP SEAL PRIMER AS PER THE NATIONAL PLUMBING CODE. REFER TO THE SPECIFICATIONS FOR TRAP PRIMING DEVICE(S) TO BE PROVIDED AS REQUIRED.
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 3. MAINTAIN MINIMUM CLEARANCE AS REQUIRED FROM OTHER SERVICES.
 4. SANITARY VENT SHALL BE DESIGNED AND INSTALLED AS PER NATIONAL BUILDING CODE.
 5. PROVIDE ACCESS DOORS FOR VALVES IN CEILING SPACE OR INSIDE WALL. COORDINATE WITH ARCHITECTURAL AND ALL DISCIPLINES.
 6. MINIMUM SANITARY PIPE SIZE TO BE USED UNDER GROUND TO BE 100Ø.
 7. SLOPE FOR UNDERGROUND DRAIN PIPES SIZING 100Ø AND GREATER ARE 1% UNLESS OTHERWISE INDICATED.
 8. EXACT LOCATIONS TO BE COORDINATED ON SITE IN CONJUNCTION WITH INSTALLATION OF EQUIPMENT, MILLWORK AND WITH OTHER TRADES.
 9. ALL PENETRATIONS THROUGH FIRE RATED WALLS SHALL BE FIRE STOPPED.
 10. REFER TO THE MECHANICAL DETAIL DRAWING M902 DETAIL# 4 FOR DOMESTIC ELECTRIC WATER HEATER INSTALLATION DETAILS.
 11. REFER TO MECHANICAL SPECIFICATION SECTION 22 31 16 REVERSE OSMOSIS SYSTEMS.



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PORT WELLER ONTARIO
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 SEARCH & RESCUE STATION
 ST. CATHARINES
 DEMOLITION, RENOVATION,
 AND NEW CONSTRUCTION

drawing title
 titre du dessin
**LIVING QUARTERS – NEW
 PLUMBING AND DRAINAGE**

drawn by
 dessiné par SA

designed by
 conçu par OH

approved by
 approuvé par AP

bid
 offre KG project manager
 administrateur de projets

project date
 date du projet 2021-07-26

project no.
 no. du projet **R.079827.001**

drawing no.
 dessiné no. **M203**

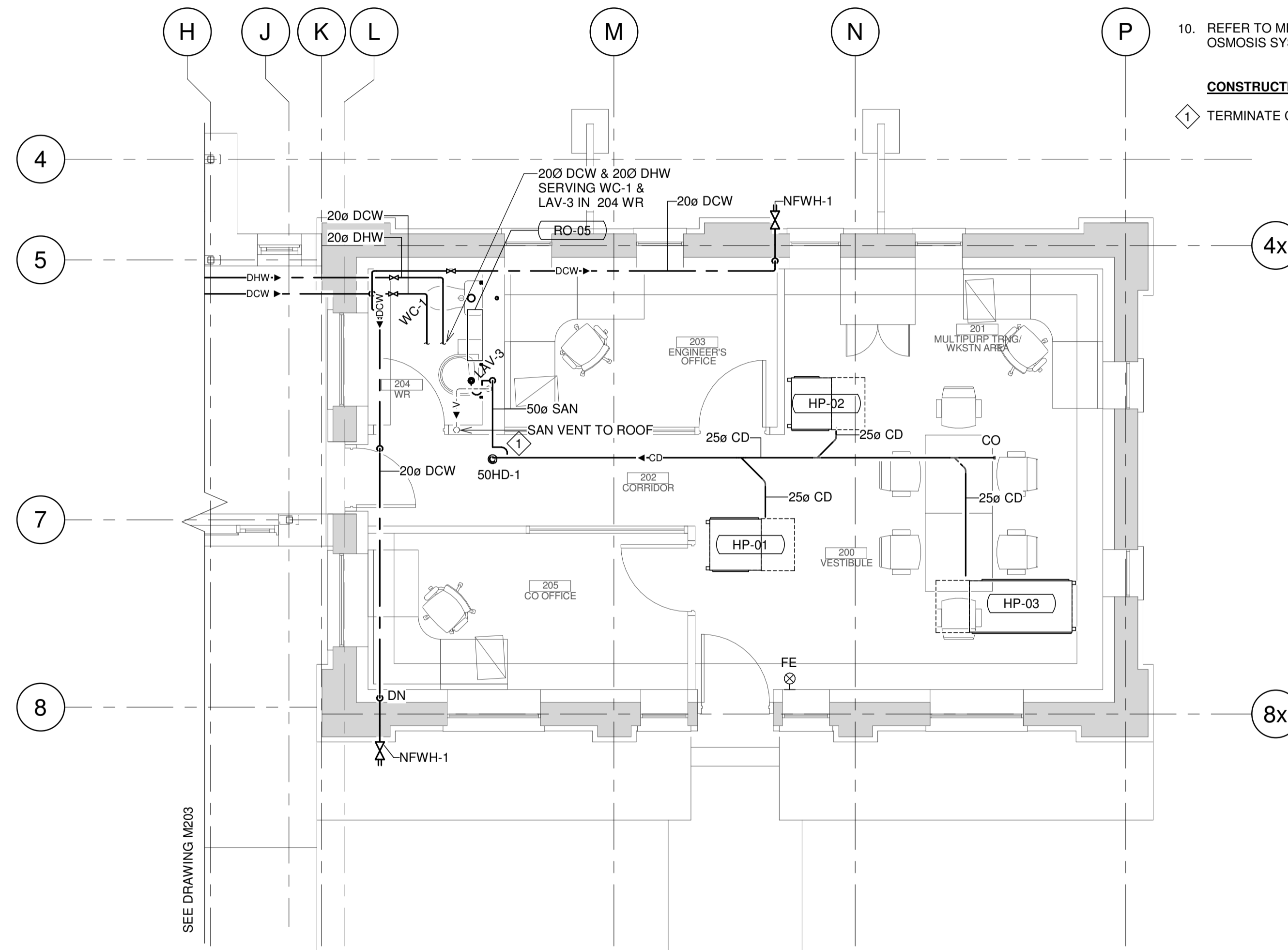
1 LIVING QUARTERS – NEW
 1 : 50

NOTES:

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5. PROVIDE ACCESS DOORS FOR VALVES IN CEILING SPACE OR INSIDE WALL. COORDINATE WITH ARCHITECTURAL AND ALL DISCIPLINES.
6. MINIMUM SANITARY PIPE SIZE TO BE USED UNDER GROUND TO BE 1000.
7. SLOPE FOR UNDERGROUND DRAIN PIPES SIZING 1000 AND GREATER ARE 1% UNLESS OTHERWISE INDICATED.
8. EXACT LOCATIONS TO BE COORDINATED ON SITE IN CONJUNCTION WITH INSTALLATION OF EQUIPMENT, MILLWORK AND WITH OTHER TRADES.
9. ALL PENETRATIONS THROUGH FIRE RATED WALLS SHALL BE FIRE STOPPED.
10. REFER TO MECHANICAL SPECIFICATION SECTION 22 31 16 FOR REVERSE OSMOSIS SYSTEMS.

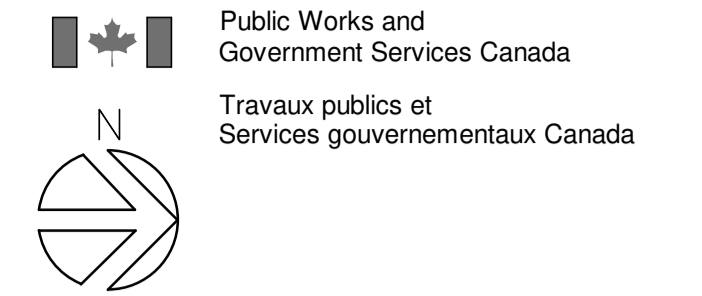
CONSTRUCTION NOTES:

- ◇ TERMINATE CONDENSATE DRAIN PIPE ABOVE HUB DRAIN IN THE CEILING SPACE.



1 OFFICE BUILDING – NEW
1 : 50

SEE DRAWING M203



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PORT WELLER ONTARIO
DEPARTMENT OF FISHERIES AND OCEANS
SEARCH & RESCUE STATION
ST. CATHARINES
DEMOLITION, RENOVATION,
AND NEW CONSTRUCTION

drawing title
titre du dessin
OFFICE BUILDING – NEW
PLUMBING AND DRAINAGE

drawn by
dessiné par SA

designed by
conçu par OH

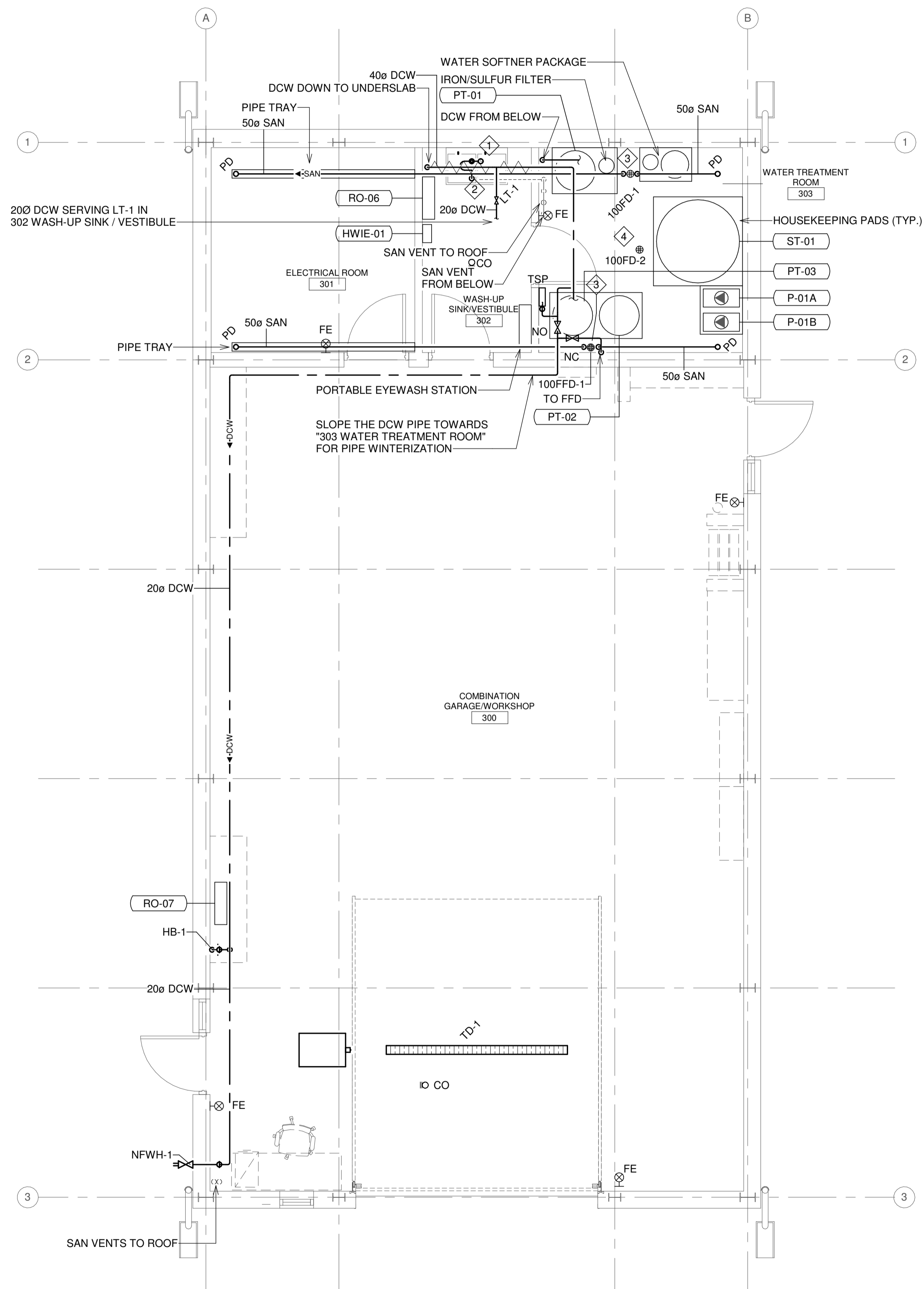
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approuvé par AP

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offre KG project manager
administrateur de projets

project date
date du projet 2021-07-26

project no.
no. du projet **R.079827.001**

drawing no.
dessiné no. **M204**



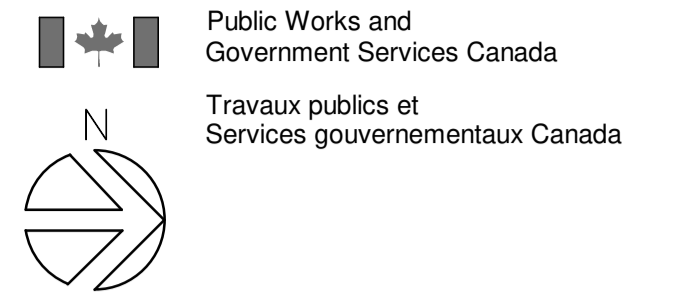
1 GARAGE/UTILITY BUILDING – NEW
1:50

NOTES:

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10. REFER TO MECHANICAL SPECIFICATION SECTION 22 31 16 REVERSE OSMOSIS SYSTEMS.

CONSTRUCTION NOTES:

1. MAIN DCW PIPE PASSING THROUGH THE "302-WASH-UP SINK/VESTIBULE" SHALL BE HEAT TRACED.
2. P-TRAP SHALL BE HEAT TRACED.
3. TERMINATE Ø50 PLENUM DRAIN ABOVE FUNNEL FLOOR DRAIN.
4. REFER TO M901 DETAIL# 3 FOR PIPING SCHEMATIC.



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project title
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DEPARTMENT OF FISHERIES AND OCEANS
SEARCH & RESCUE STATION
ST. CATHARINES
DEMOLITION, RENOVATION,
AND NEW CONSTRUCTION**

drawing title
titre du dessin
**GARAGE/UTILITY BUILDING –
NEW
PLUMBING AND DRAINAGE**

drawn by
dessiné par SA

designed by
conçu par OH

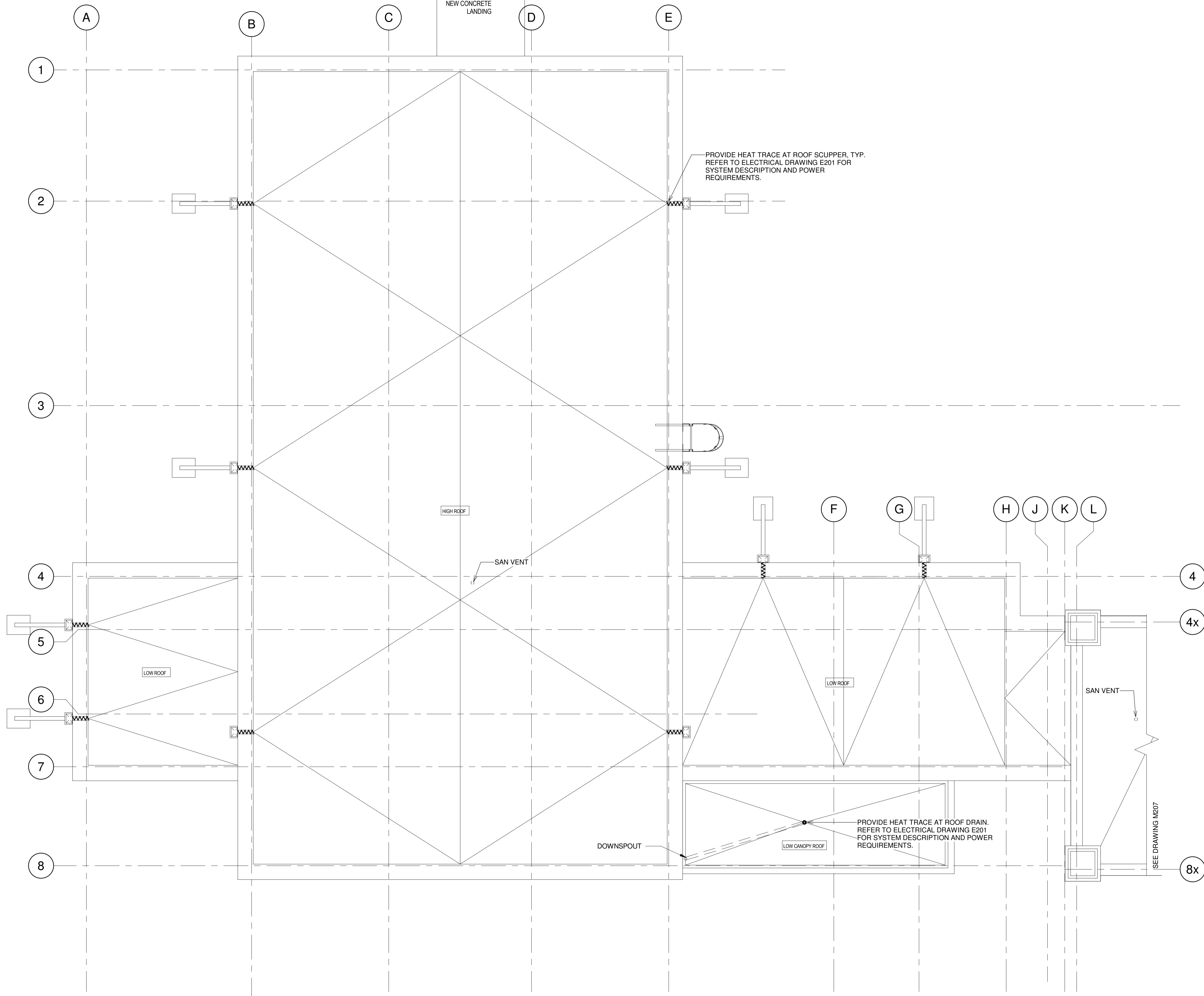
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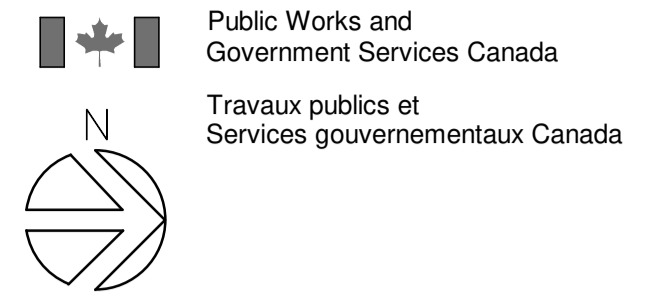
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project no.
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drawing no.
dessiné no. **M205**



1 LIVING QUARTERS ROOF – NEW
1 : 50



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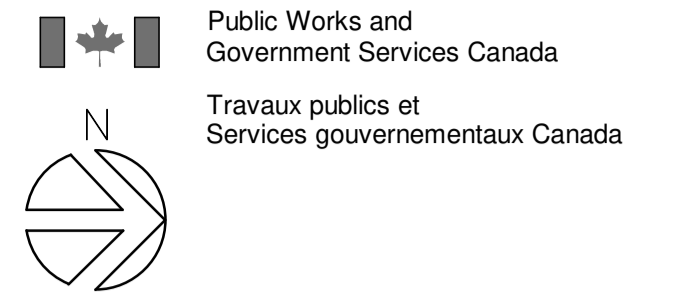
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SEARCH & RESCUE STATION
ST. CATHARINES
DEMOLITION, RENOVATION,
AND NEW CONSTRUCTION**

drawing title
titre du dessin
**LIVING QUARTERS ROOF –
NEW
PLUMBING AND DRAINAGE**

| | | |
|--------------------------------|--------------|--|
| drawn by dessiné par | SA | project manager administrateur de projets |
| designed by conçu par | OH | |
| approved by approuvé par | AP | |
| bid offre | KG | |
| project date date du projet | 2021-07-26 | |
| project no. no. du projet | R.079827.001 | |
| drawing no. dessiné no. | M206 | |



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SEARCH & RESCUE STATION
ST. CATHARINES
DEMOLITION, RENOVATION,
AND NEW CONSTRUCTION

drawing title
titre du dessin
**OFFICE BUILDING ROOF-
NEW
PLUMBING AND DRAINAGE**

drawn by
dessiné par SA

designed by
conçu par OH

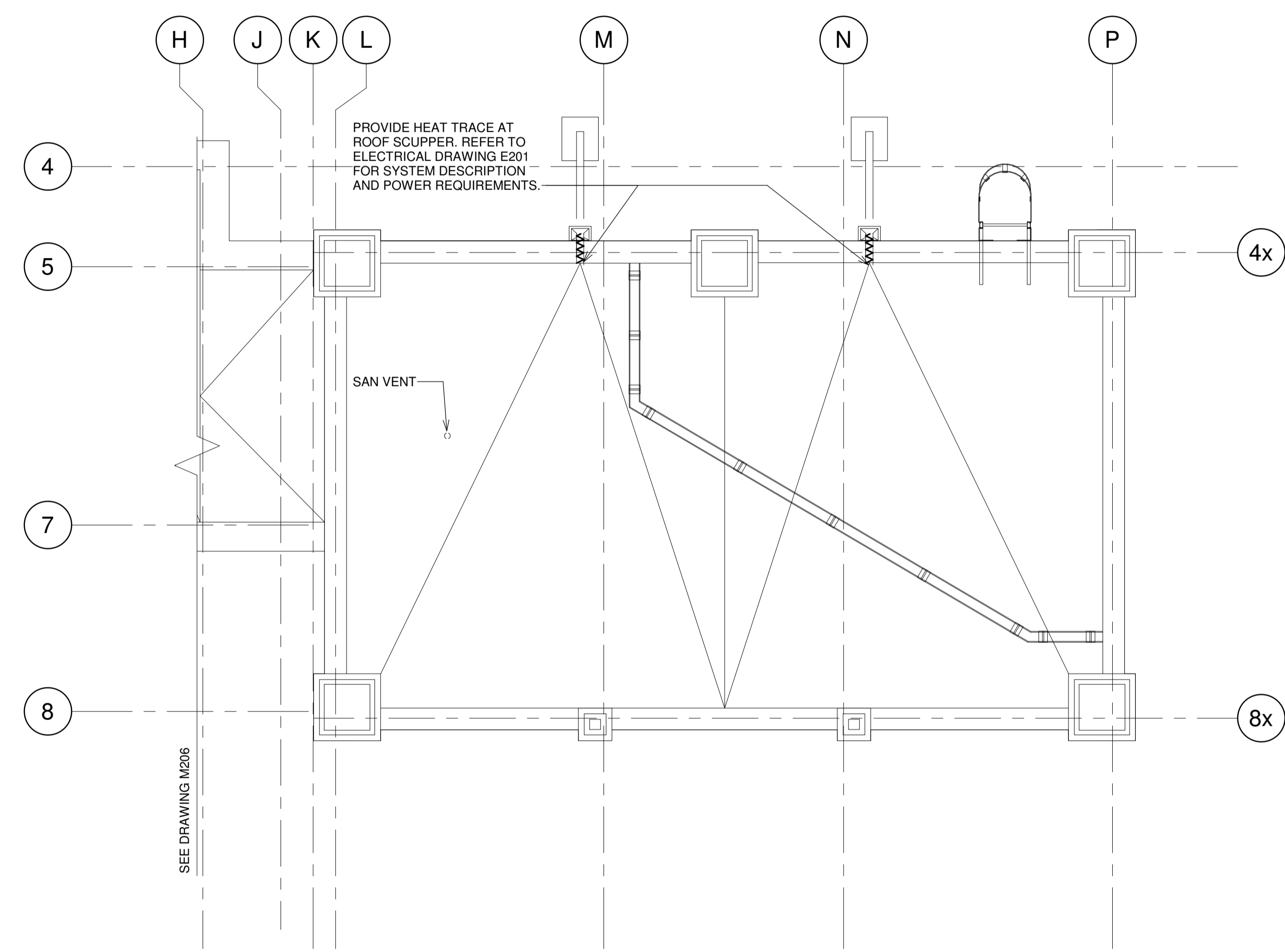
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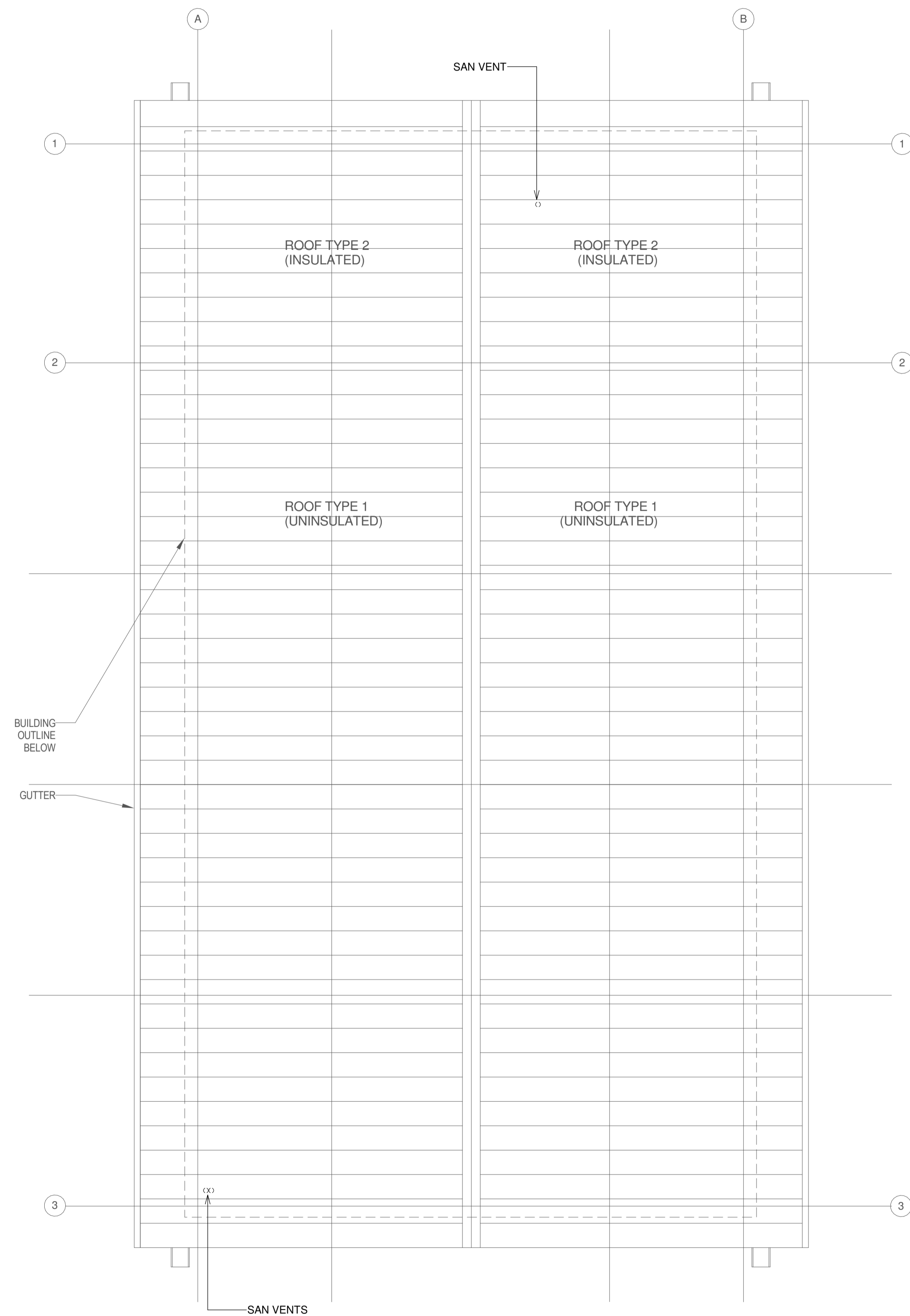
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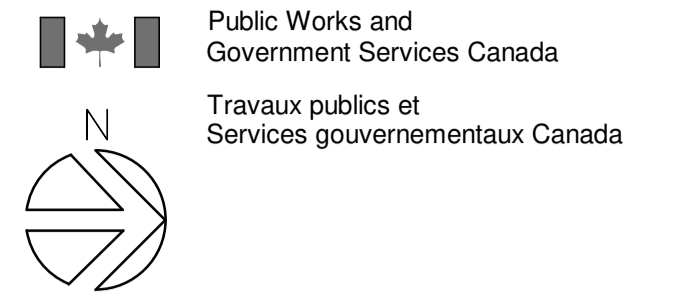
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1 OFFICE BUILDING ROOF- NEW
1 : 50



1 GARAGE/UTILITY BUILDING ROOF - NEW
1 : 50



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ST. CATHARINES
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AND NEW CONSTRUCTION**

drawing title
titre du dessin
**GARAGE/UTILITY BUILDING
ROOF - NEW
PLUMBING AND DRAINAGE**

drawn by
dessiné par SA

designed by
conçu par OH

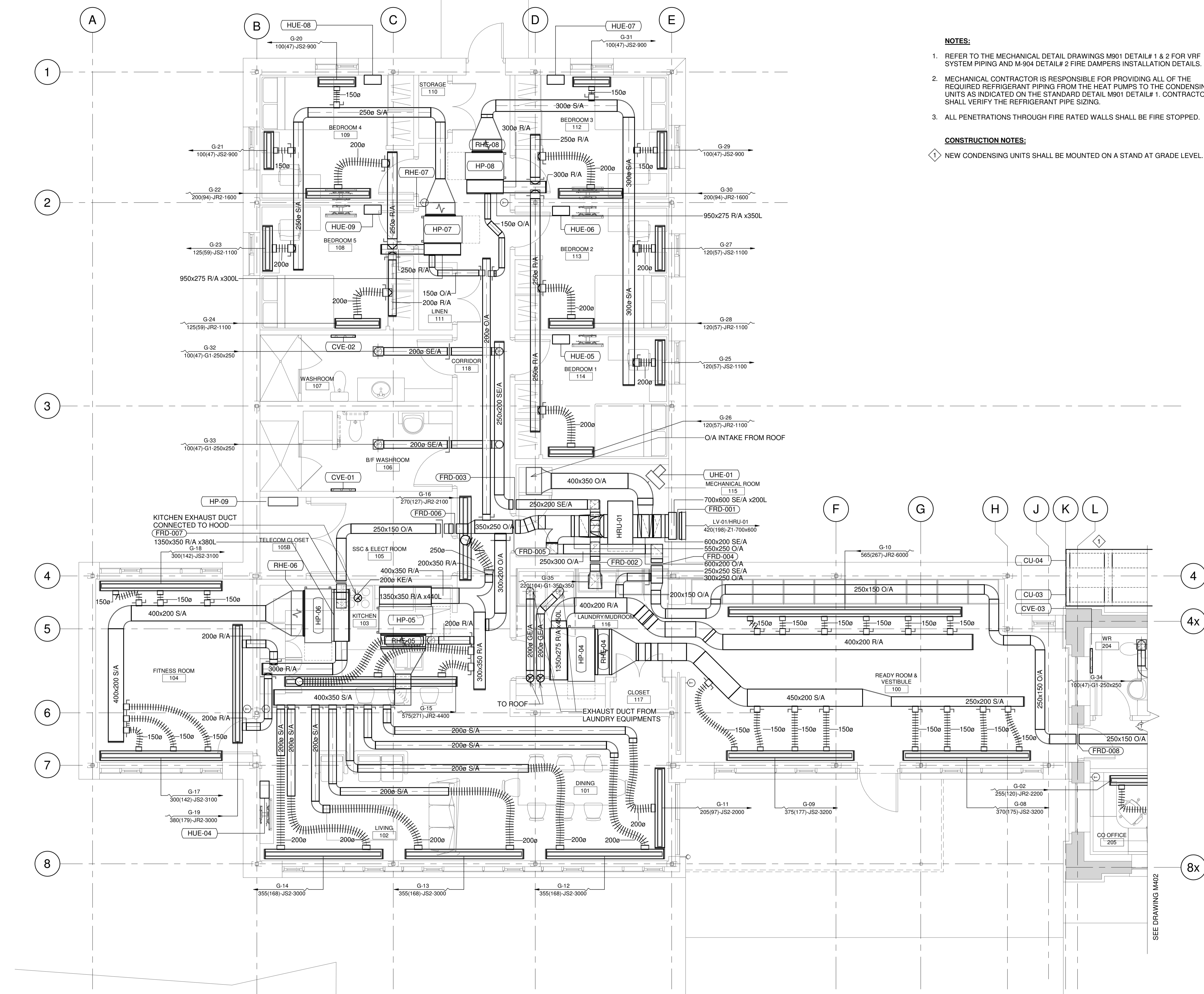
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project date
date du projet 2021-07-26

project no.
no. du projet **R.079827.001**

drawing no.
dessiné no. **M208**



- NOTES:**
- REFER TO THE MECHANICAL DETAIL DRAWINGS M901 DETAIL# 1 & 2 FOR VRF SYSTEM PIPING AND M-904 DETAIL# 2 FIRE DAMPERS INSTALLATION DETAILS.
 - MECHANICAL CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALL OF THE REQUIRED REFRIGERANT PIPING FROM THE HEAT PUMPS TO THE CONDENSING UNITS AS INDICATED ON THE STANDARD DETAIL M901 DETAIL# 1. CONTRACTOR SHALL VERIFY THE REFRIGERANT PIPE SIZING.
 - ALL PENETRATIONS THROUGH FIRE RATED WALLS SHALL BE FIRE STOPPED.

- CONSTRUCTION NOTES:**
- NEW CONDENSING UNITS SHALL BE MOUNTED ON A STAND AT GRADE LEVEL.

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PORT WELLER ONTARIO DEPARTMENT OF FISHERIES AND OCEANS SEARCH & RESCUE STATION ST. CATHARINES DEMOLITION, RENOVATION, AND NEW CONSTRUCTION

drawing title
titre du dessin
LIVING QUARTERS – NEW HVAC

drawn by
dessiné par SA

designed by
conçu par OH

approved by
approuvé par AP

bid offer KG project manager administrateur de projets

project date
date du projet 2021-07-26

project no.
no. du projet R.079827.001

drawing no.
dessiné no. M401

1 LIVING QUARTERS – NEW
1:50



| revision | description | date |
|----------|-------------------|------------|
| 1 | ISSUED FOR TENDER | 2021-07-26 |

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project title
titre du projet
**PORT WELLER ONTARIO
DEPARTMENT OF FISHERIES AND OCEANS
SEARCH & RESCUE STATION
ST. CATHARINES
DEMOLITION, RENOVATION,
AND NEW CONSTRUCTION**

drawing title
titre du dessin
**OFFICE BUILDING – NEW
HVAC**

drawn by
dessiné par SA

designed by
conçu par OH

approved by
approuvé par AP

bid
offre KG project manager
administrateur
de projets

project date
date du projet 2021-07-26

project no.
no. du projet **R.079827.001**

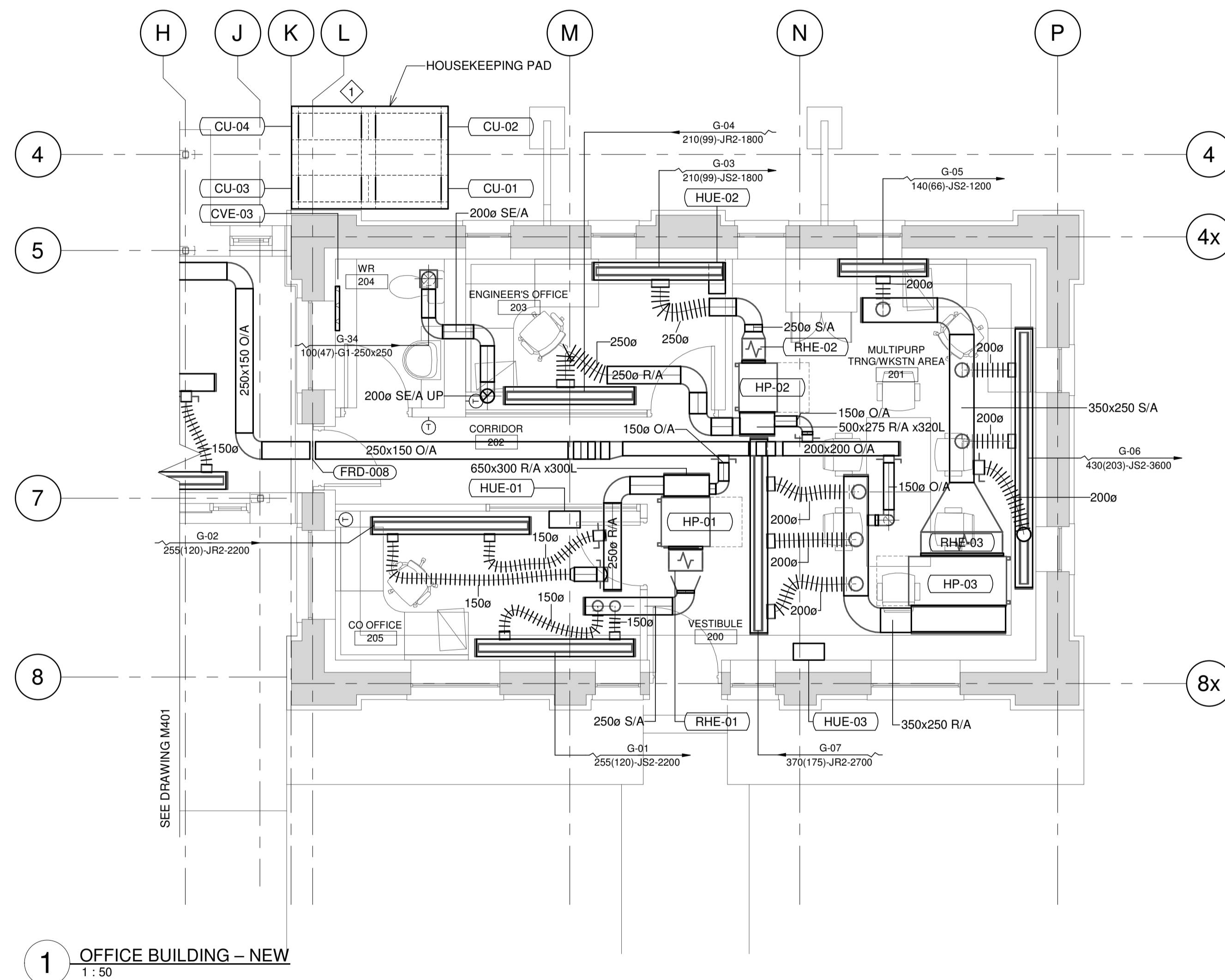
drawing no.
dessiné no. **M402**

NOTES:

1. REFER TO THE MECHANICAL DETAIL DRAWINGS M901 DETAIL# 1 & 2 FOR VRF SYSTEM PIPING AND M-904 DETAIL# 2 FIRE DAMPERS INSTALLATION DETAILS.
2. MECHANICAL CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALL OF THE REQUIRED REFRIGERANT PIPING FROM THE HEAT PUMPS TO THE CONDENSING UNITS AS INDICATED ON THE STANDARD DETAIL M901 DETAIL# 1. CONTRACTOR SHALL VERIFY THE REFRIGERANT PIPE SIZING.
3. ALL PENETRATIONS THROUGH FIRE RATED WALLS SHALL BE FIRE STOPPED.

CONSTRUCTION NOTES:

- NEW CONDENSING UNITS SHALL BE MOUNTED ON A STAND AT GRADE LEVEL.



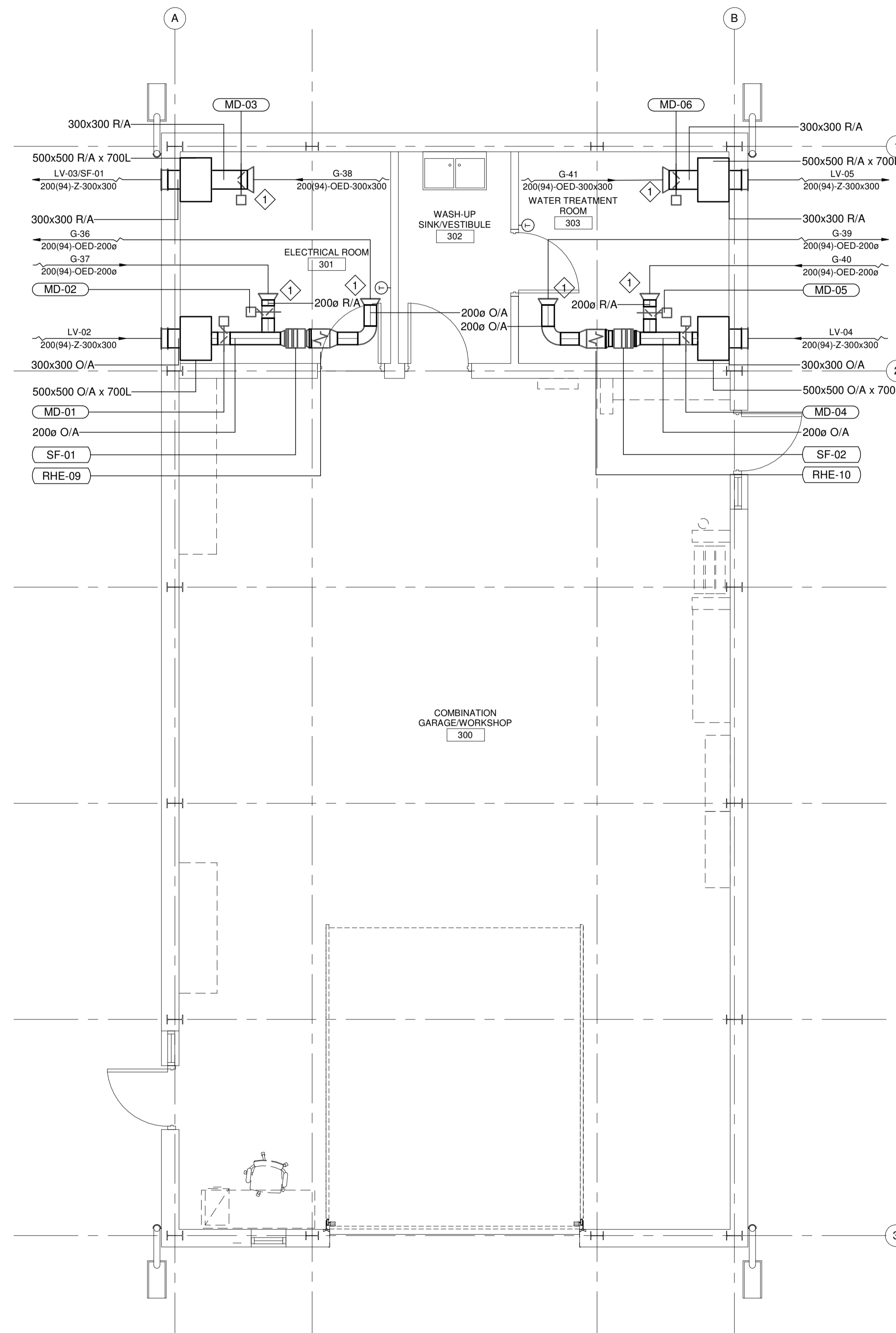


NOTES:

1. ALL PENETRATIONS THROUGH FIRE RATED WALLS SHALL BE FIRE STOPPED.

CONSTRUCTION NOTES:

1. OPEN ENDED DUCT COMPLETE WITH SCREEN.



1 GARAGE/UTILITY BUILDING – NEW
1 : 50

| revision | description | date |
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ST. CATHARINES
DEMOLITION, RENOVATION,
AND NEW CONSTRUCTION

drawing title
titre du dessin
**GARAGE/UTILITY BUILDING –
NEW
HVAC**

drawn by
dessiné par SA

designed by
conçu par OH

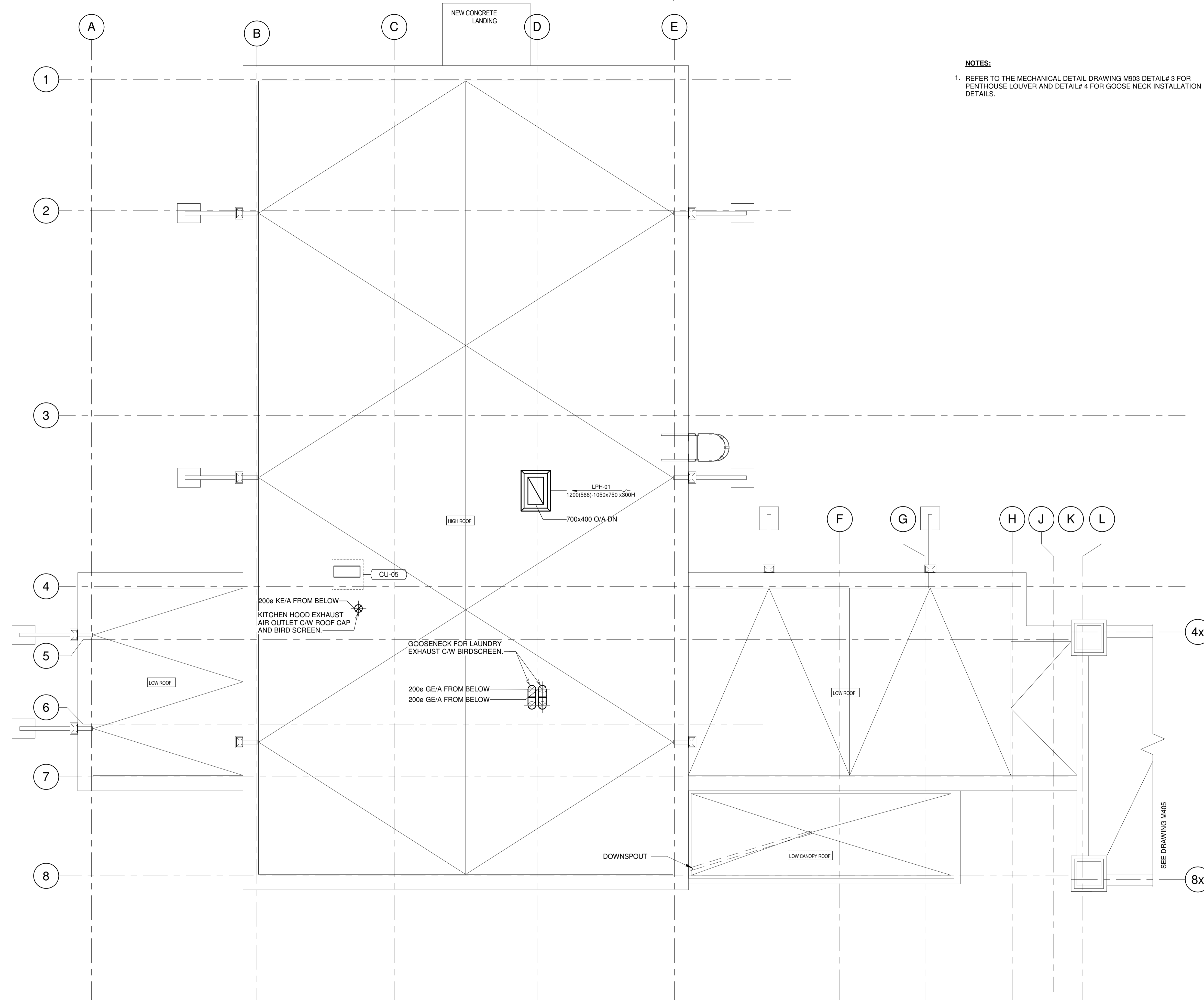
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bid
offre KG project manager
administrateur de projets

project date
date du projet 2021-07-26

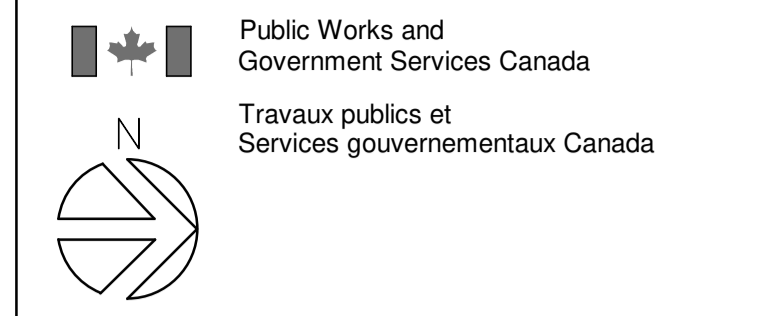
project no.
no. du projet **R.079827.001**

drawing no.
dessiné no. **M403**



NOTES:
 1. REFER TO THE MECHANICAL DETAIL DRAWING M903 DETAIL# 3 FOR PENTHOUSE LOUVER AND DETAIL# 4 FOR GOOSE NECK INSTALLATION DETAILS.

1 LIVING QUARTERS ROOF – NEW
 1 : 50



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project title
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drawing title
LIVING QUARTERS ROOF – NEW HVAC

drawn by
 SA

designed by
 OH

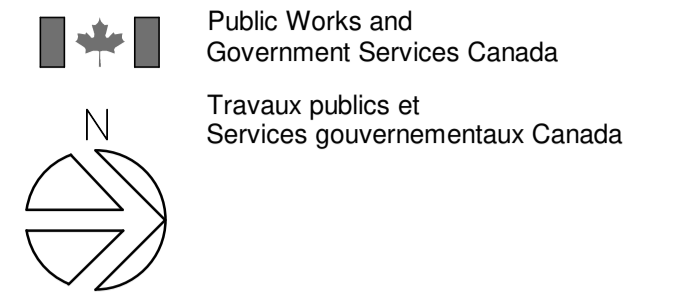
approved by
 AP

bid offer
 KG project manager
 administrateur de projets

project date
 date du projet 2021-07-26

project no.
 no. du projet **R.079827.001**

drawing no.
 dessine no. **M404**



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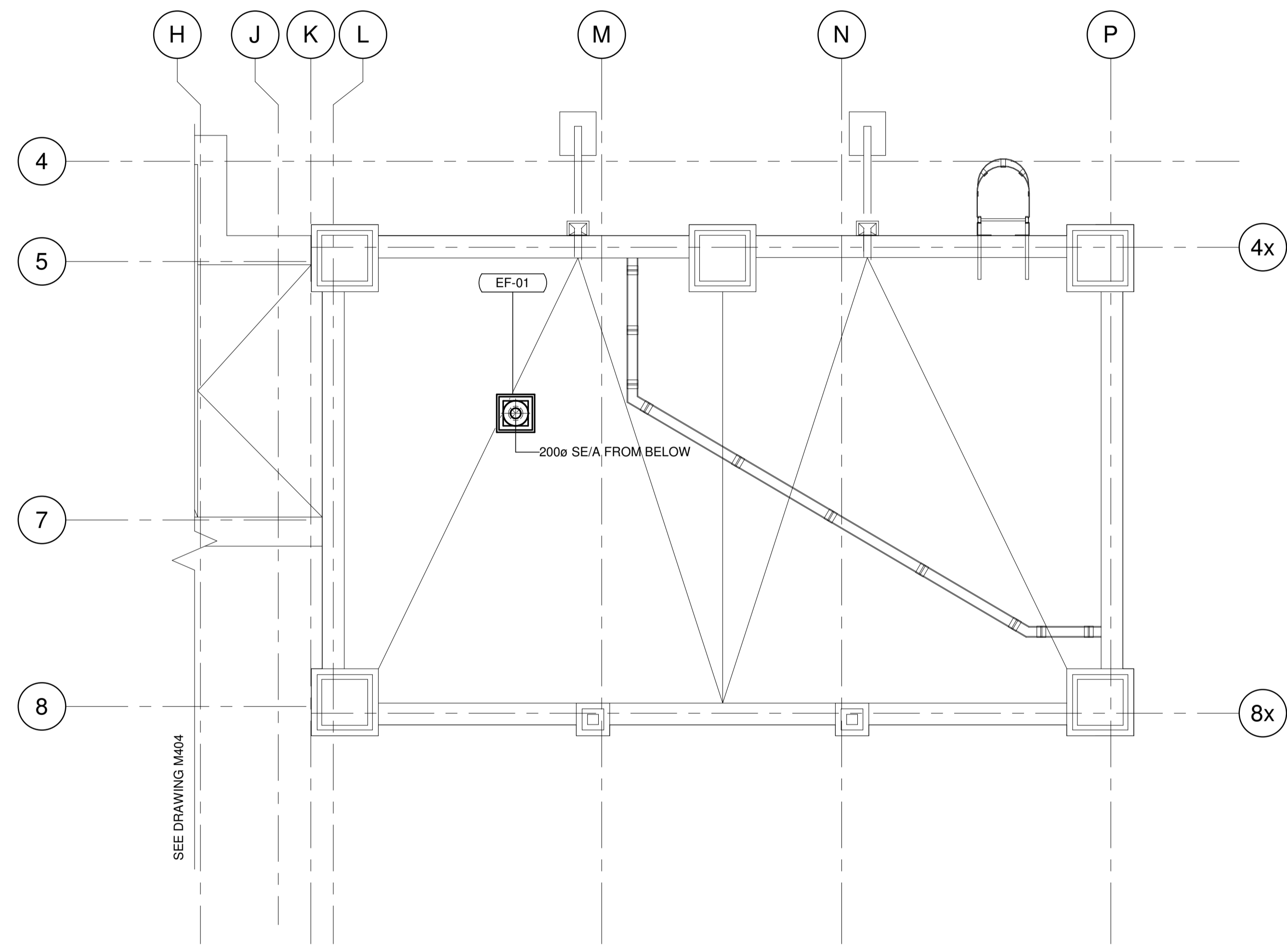


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NOTES:
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1 OFFICE BUILDING ROOF- NEW
 1 : 50

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|----------|-------------------|------------|
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 titre du projet
PORT WELLER ONTARIO
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 SEARCH & RESCUE STATION
 ST. CATHARINES
 DEMOLITION, RENOVATION,
 AND NEW CONSTRUCTION

drawing title
 titre du dessin
**OFFICE BUILDING ROOF-
 NEW
 HVAC**

drawn by
 dessine par SA

designed by
 conc par OH

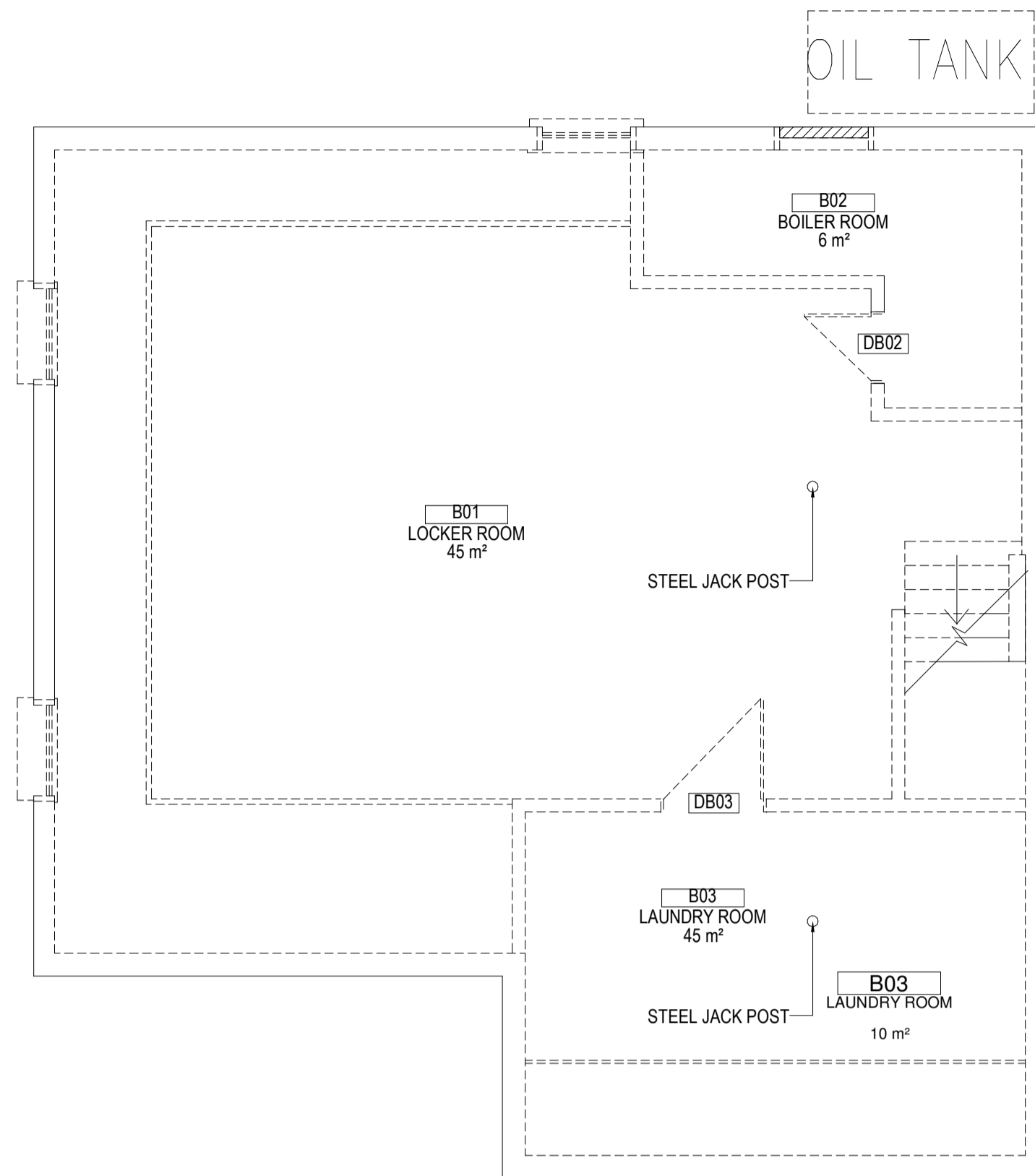
approved by
 approuve par AP

bid
 offre KG project manager
 administrateur de projets

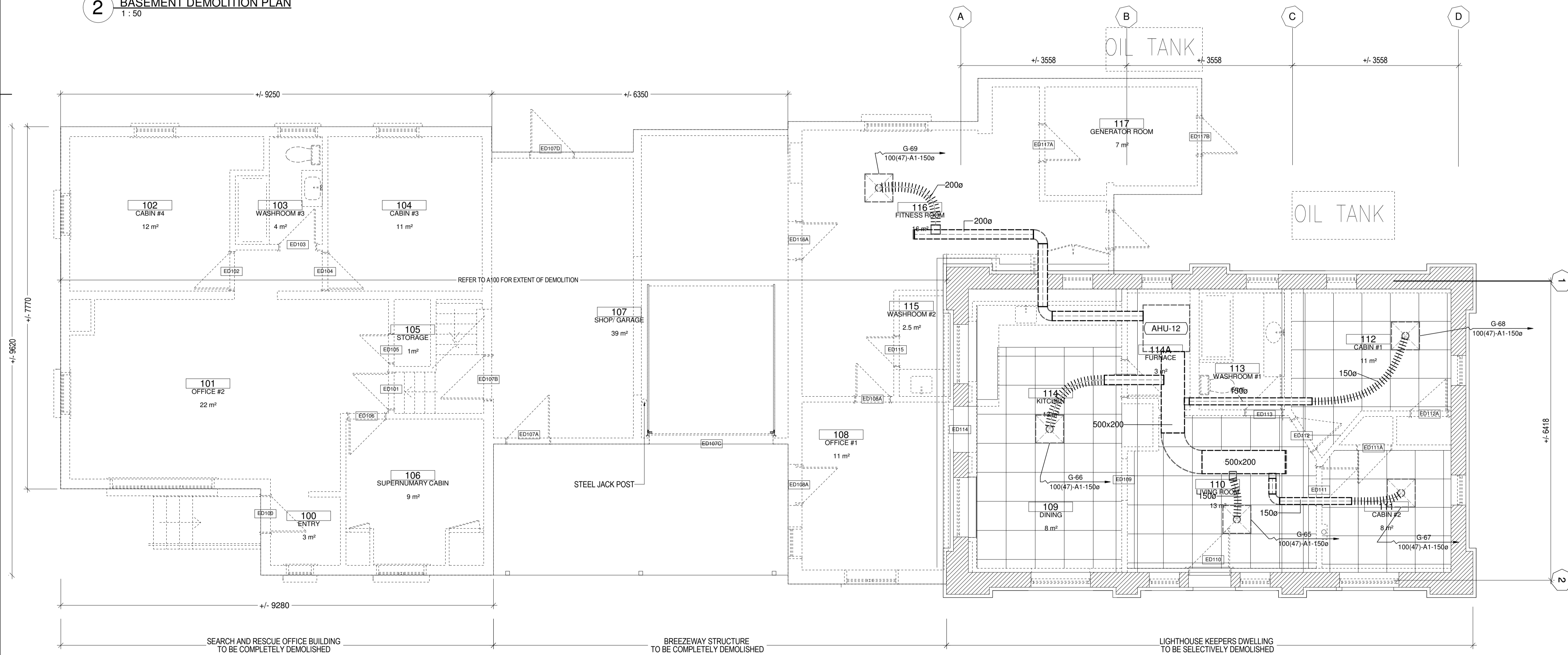
project date
 date du projet 2021-07-26

project no.
 no. du projet **R.079827.001**

drawing no.
 dessine no. **M405**



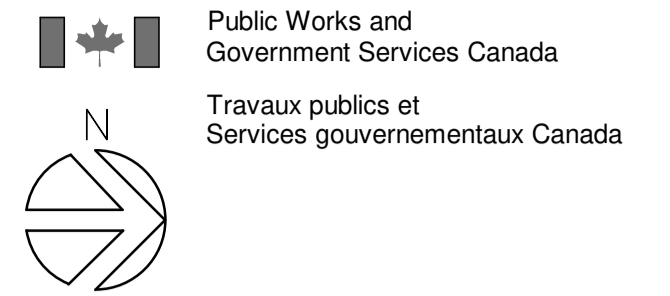
2 BASEMENT DEMOLITION PLAN
1 : 50



1 GROUND FLOOR DEMOLITION PLAN
1 : 50

CONSTRUCTION NOTES:

- EXISTING MECHANICAL DUCT WORK AND AIR CONDITIONING EQUIPMENT LOCATED IN THE 1950'S BUILDING & BASEMENT, SHALL BE DEMOLISHED AND REMOVED FROM SITE.
- EXISTING MECHANICAL DUCT WORK AND AIR CONDITIONING EQUIPMENT LOCATED IN THE 1930'S LIGHTHOUSE KEEPER'S BUILDING SHALL BE DEMOLISHED AND REMOVED FROM THE SITE.
- EXISTING GENERATOR ROOM, DUCTWORK, COMPLETE WITH DAMPERS AND CONTROLS SHALL BE DEMOLISHED AND REMOVED FROM THE SITE.



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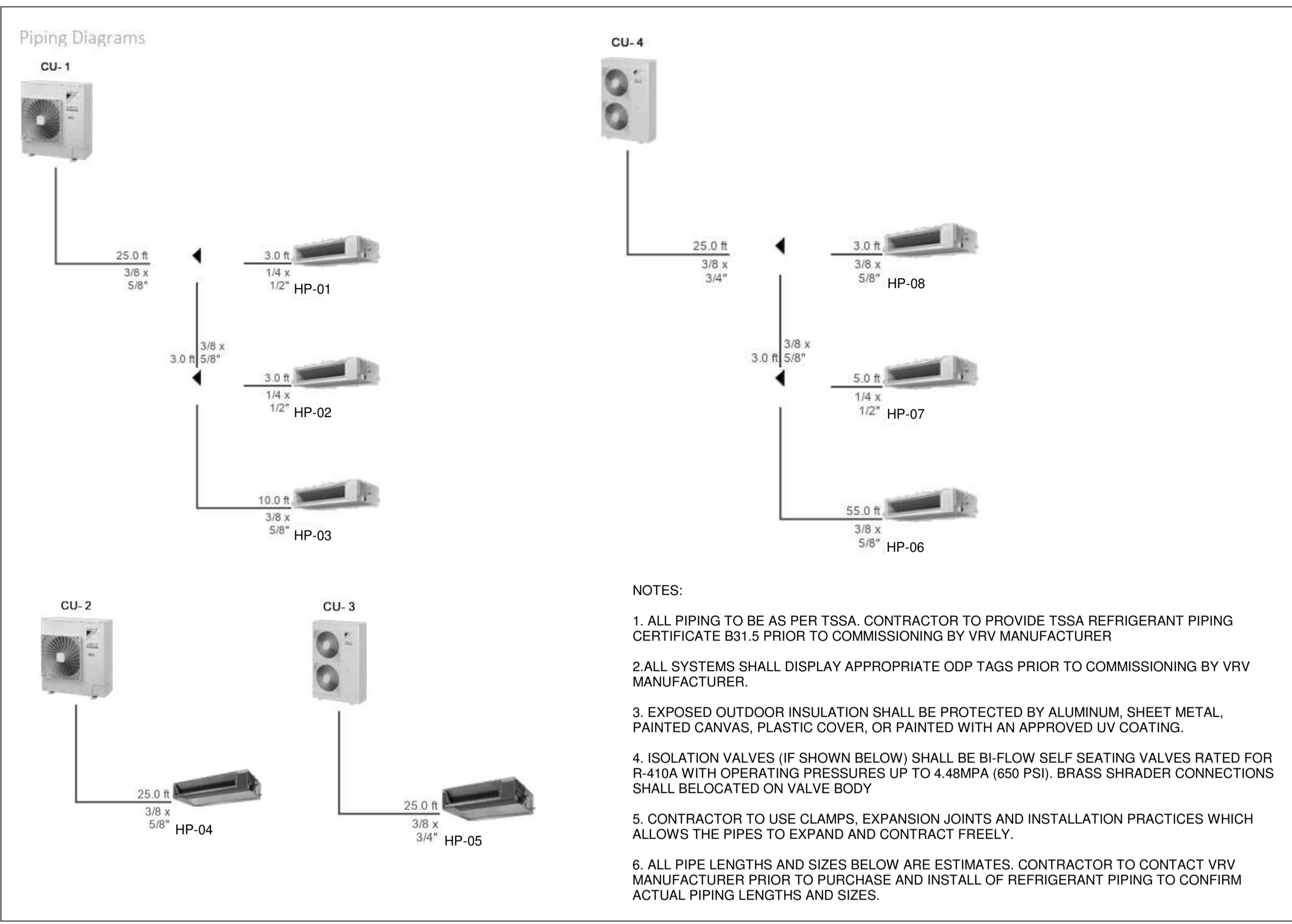
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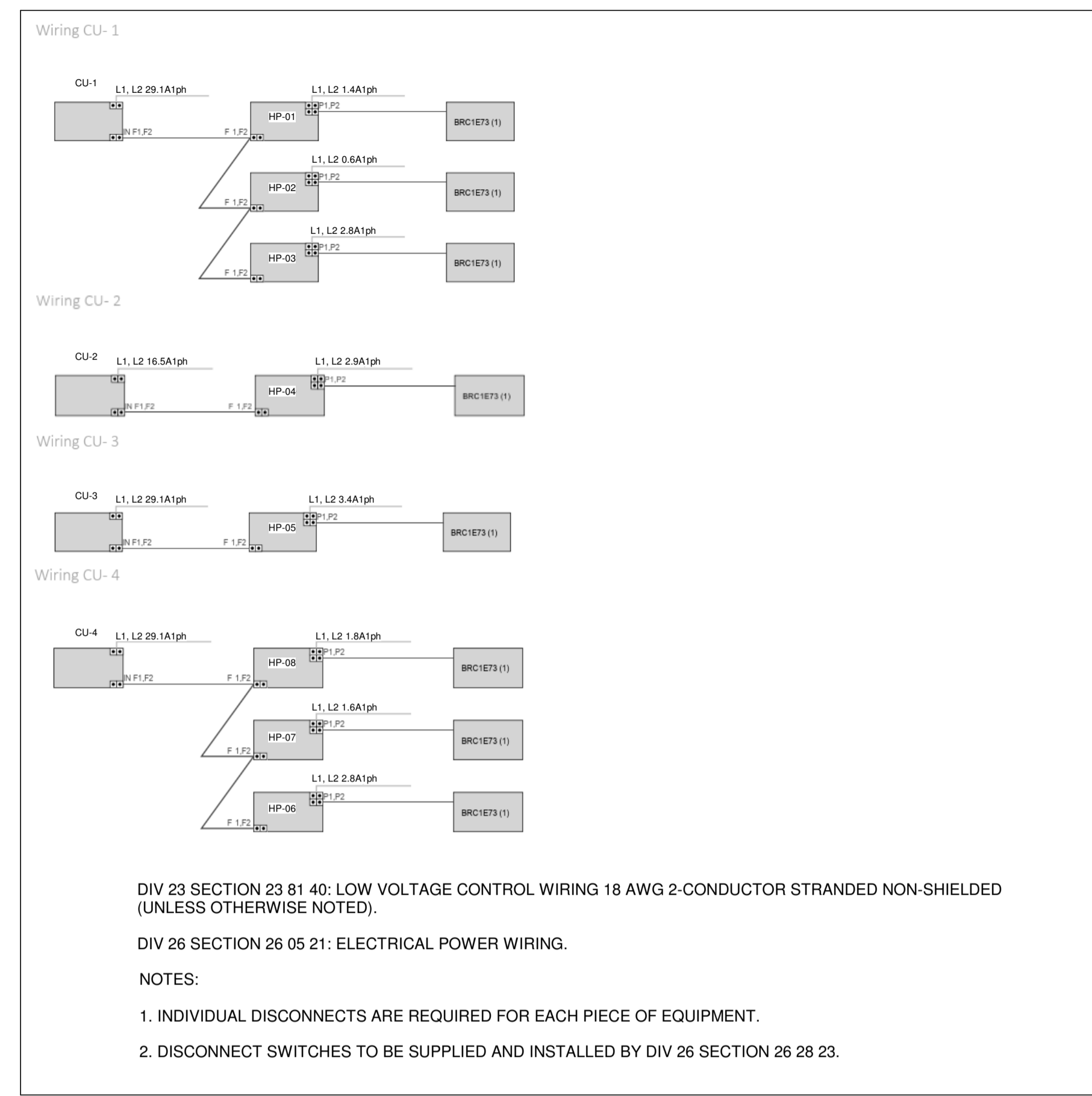
project title / titre du projet: **PORT WELLER ONTARIO DEPARTMENT OF FISHERIES AND OCEANS SEARCH & RESCUE STATION ST. CATHARINES DEMOLITION, RENOVATION, AND NEW CONSTRUCTION**

drawing title / titre du dessin: **EXISTING LIGHTHOUSE KEEPER'S DWELLING - DEMOLITION HVAC**

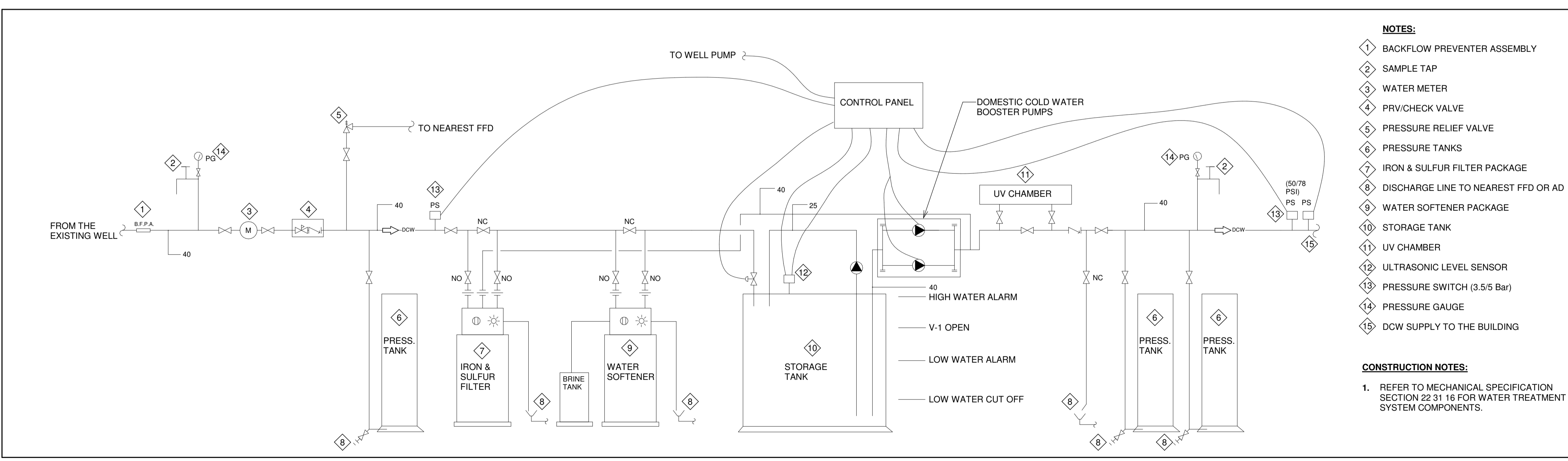
| | | | |
|-------------------------------|--------------|---|--|
| drawn by / dessiné par | SA | project manager / administrateur de projets | |
| designed by / conçu par | OH | | |
| approved by / approuvé par | AP | | |
| bid / offre | KG | | |
| project date / date du projet | 2021-07-26 | | |
| project no. / no. du projet | R.079827.001 | | |
| drawing no. / dessiné no. | M406 | | |



1 PIPING DIAGRAM
N.T.S.



2 LOW VOLTAGE CONTROL WIRING DIAGRAM
N.T.S.



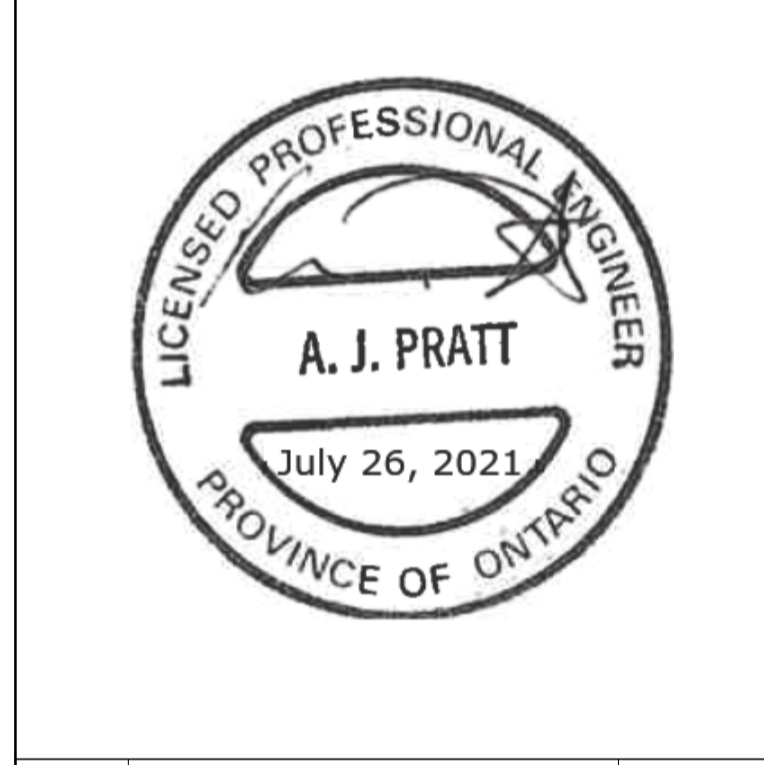
3 WATER TREATMENT SYSTEM
N.T.S.

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project title
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PORT WELLER ONTARIO DEPARTMENT OF FISHERIES AND OCEANS SEARCH & RESCUE STATION ST. CATHARINES DEMOLITION, RENOVATION, AND NEW CONSTRUCTION

drawing title
titre du dessin
SHEET 1 MECHANICAL DETAILS

drawn by
dessine par Author

designed by
conc par SS

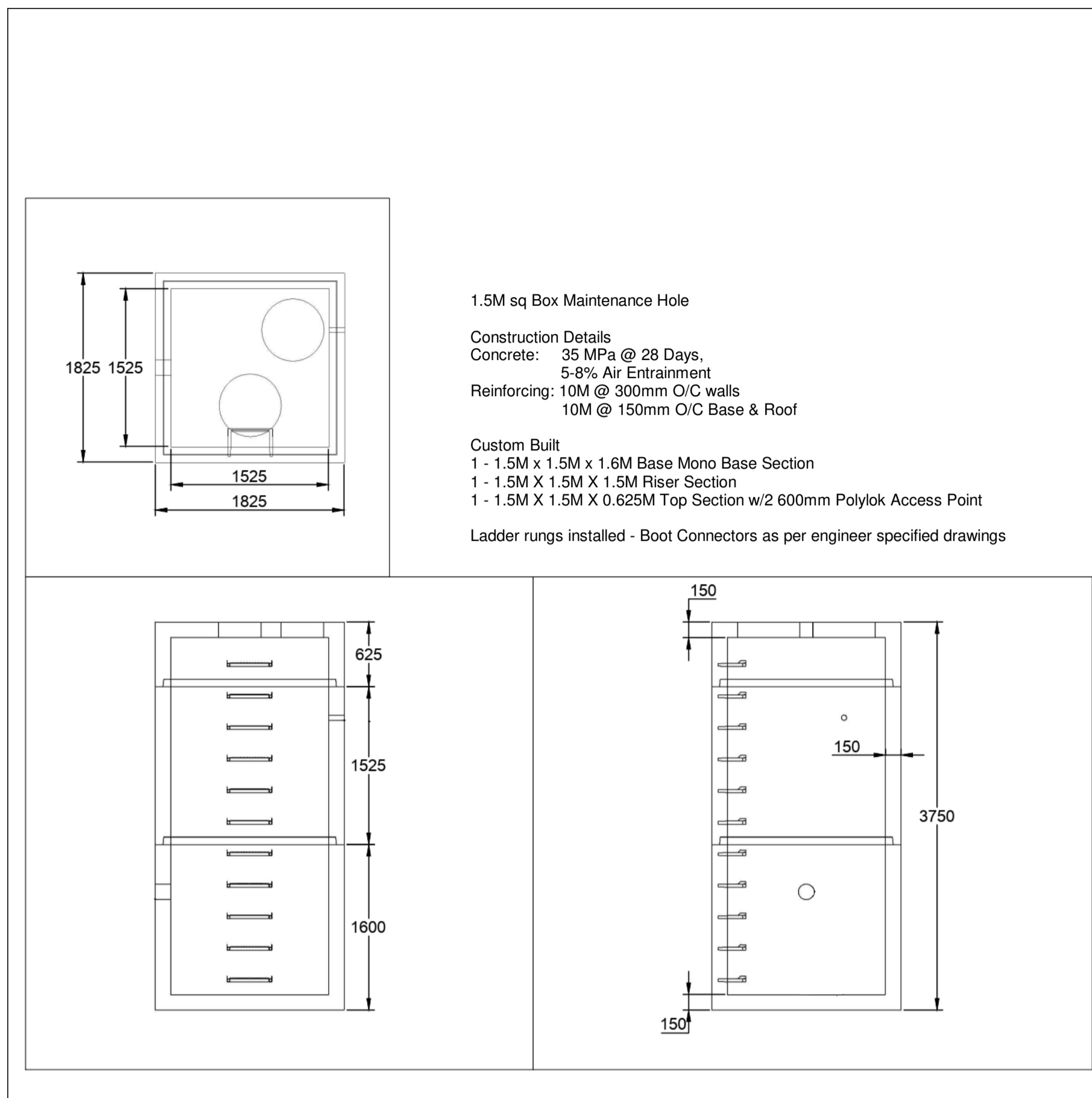
approved by
approuve par AP

bid offer KG project manager administrateur de projets

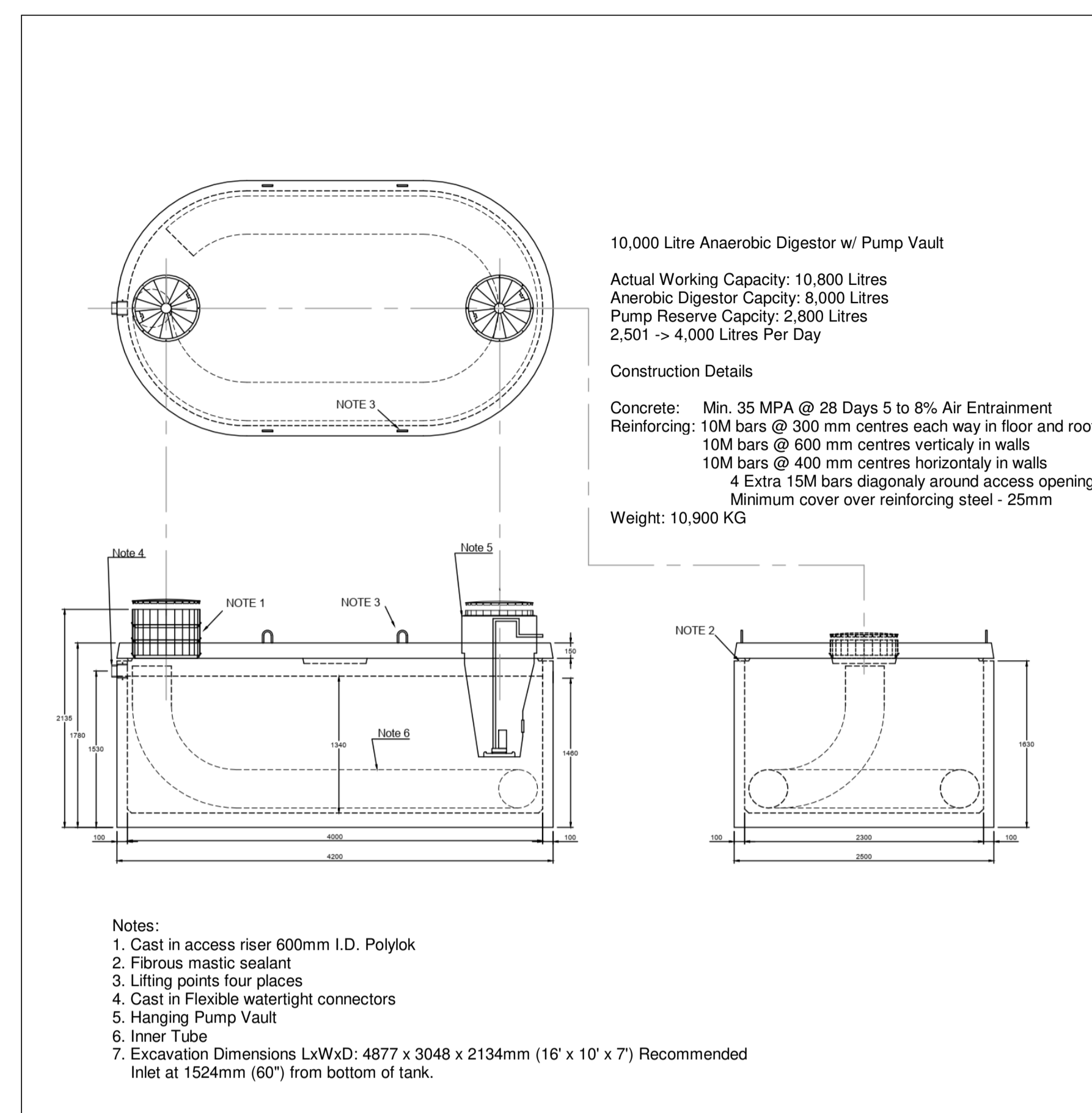
project date
date du projet 2021-07-26

project no.
no. du projet R.079827.001

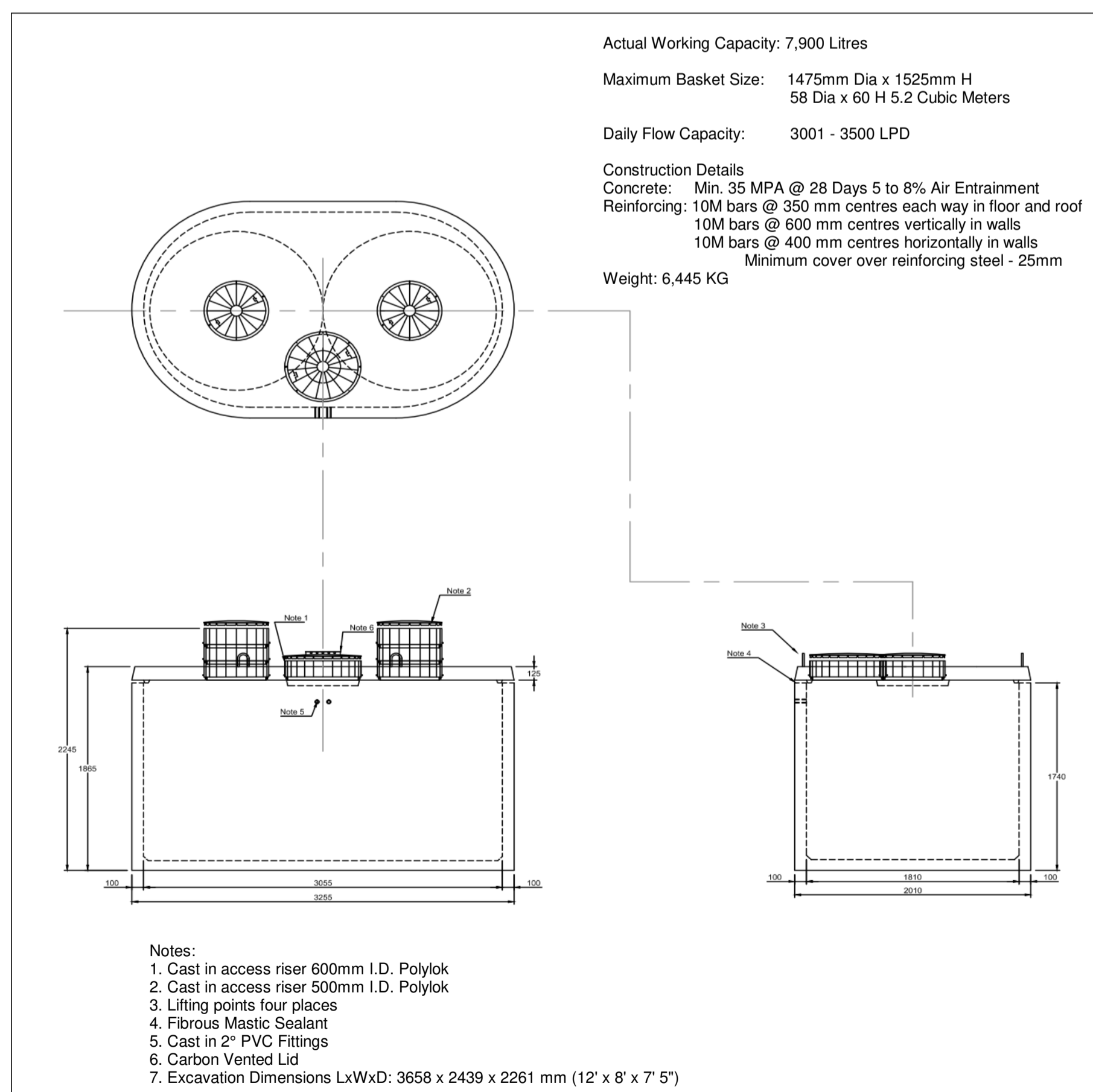
drawing no.
dessine no. M901



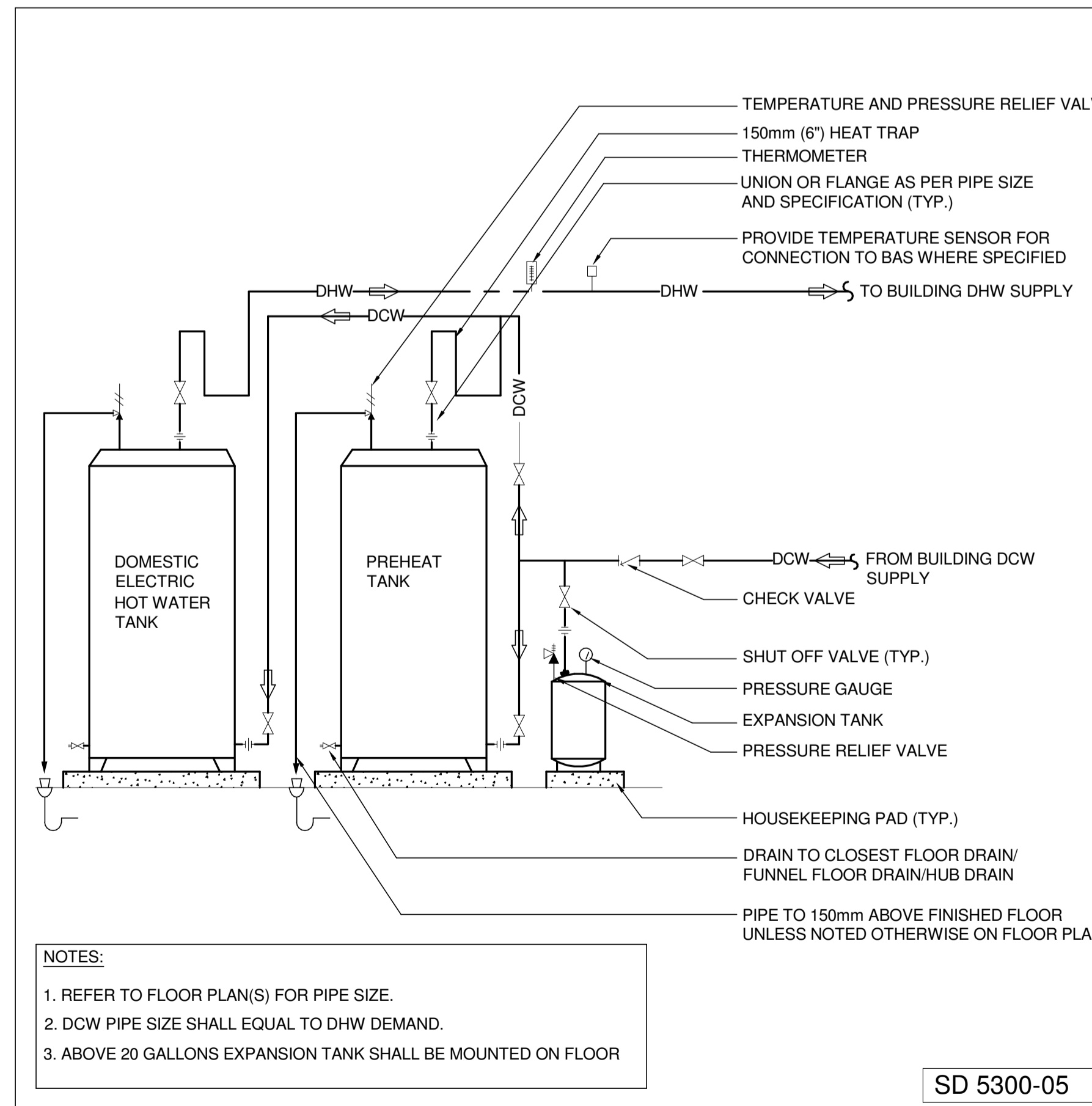
1 MAINTENANCE HOLE DETAIL
N.T.S.



2 ANAEROBIC DIGESTOR DETAIL
N.T.S.



3 BIOFILTER TANK DETAIL
N.T.S.



4 PREHEAT TANK AND DOMESTIC ELECTRIC WATER HEATER FOR STORAGE TEMPERATURE LESS THAN 121 F
N.T.S.



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project title
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 DEPARTMENT OF FISHERIES AND OCEANS
 SEARCH & RESCUE STATION
 ST. CATHARINES
 DEMOLITION, RENOVATION,
 AND NEW CONSTRUCTION

drawing title
 titre du dessin
SHEET 2 MECHANICAL DETAILS

drawn by
 dessiné par Author

designed by
 conçu par SS

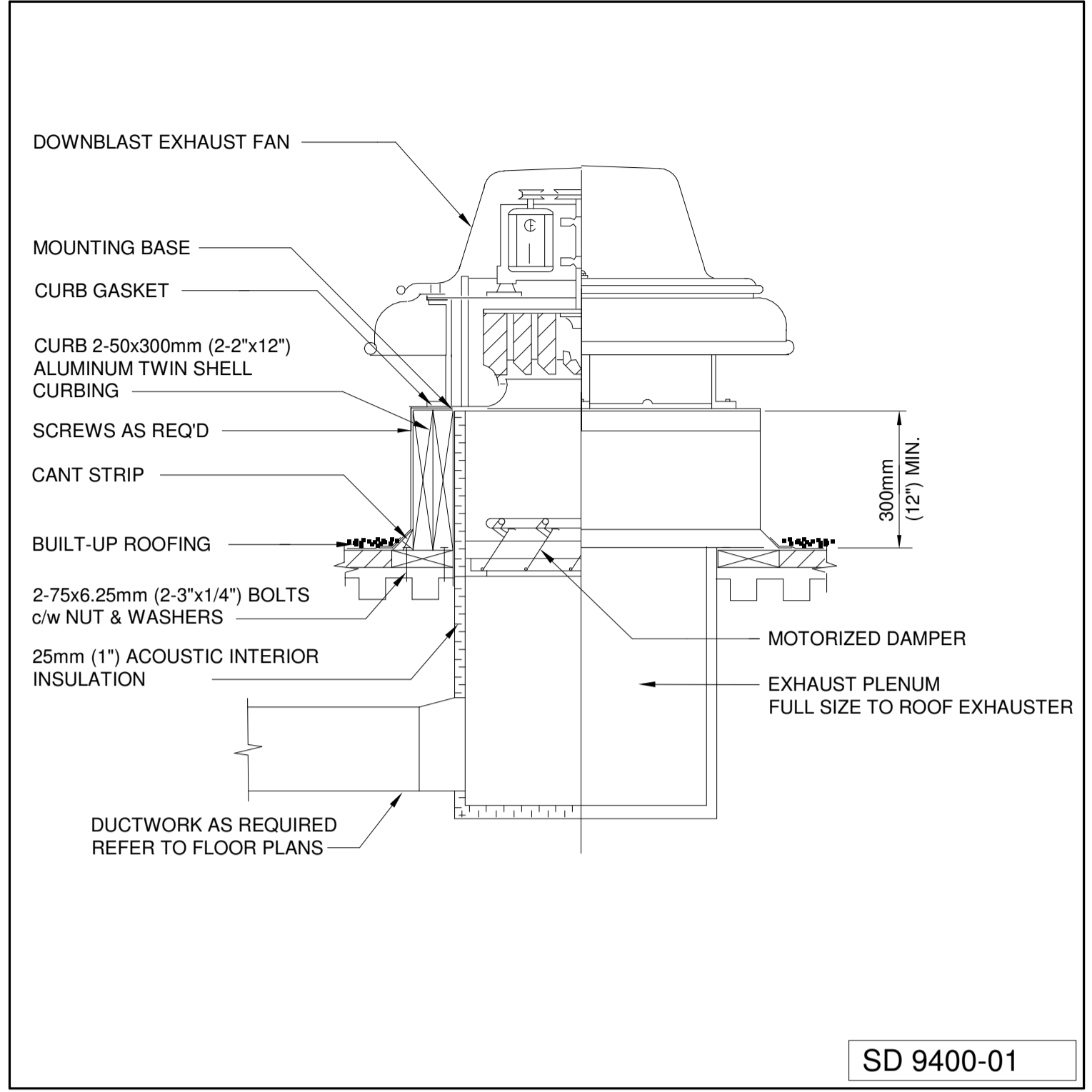
approved by
 approuvé par AP

bid
 offre KG project manager
 administrateur de projets

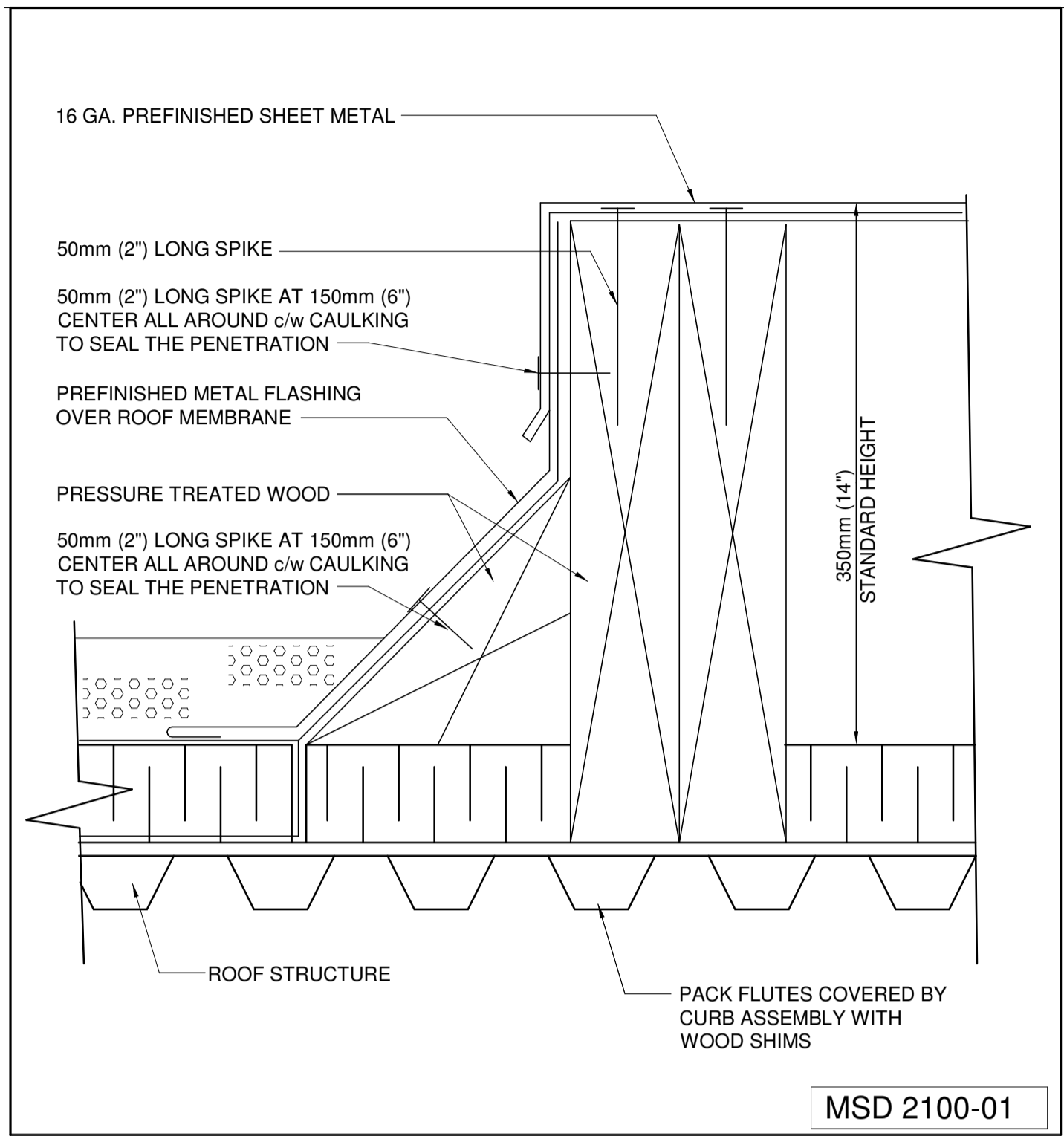
project date
 date du projet 2021-07-26

project no.
 no. du projet R.079827.001

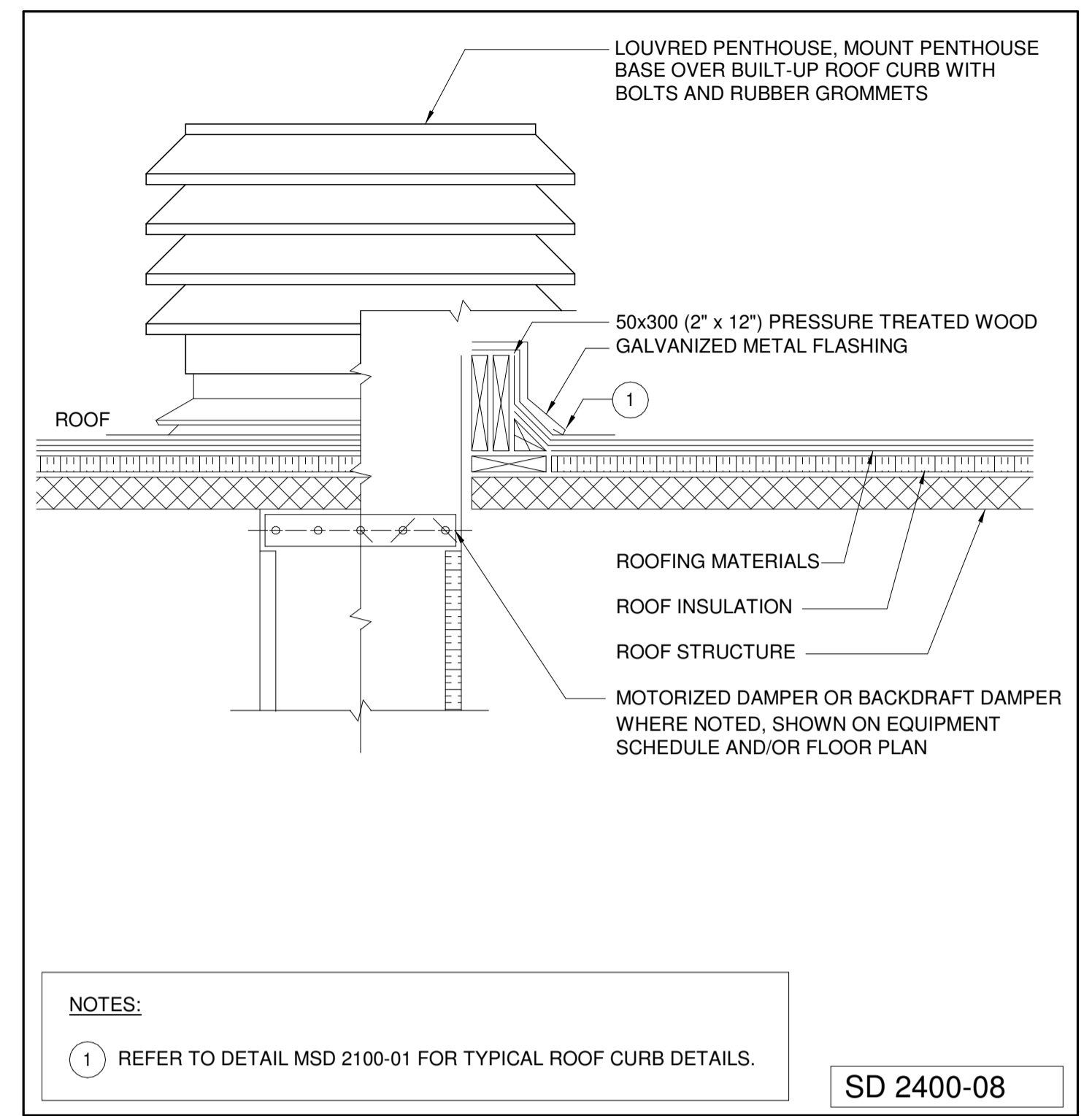
drawing no.
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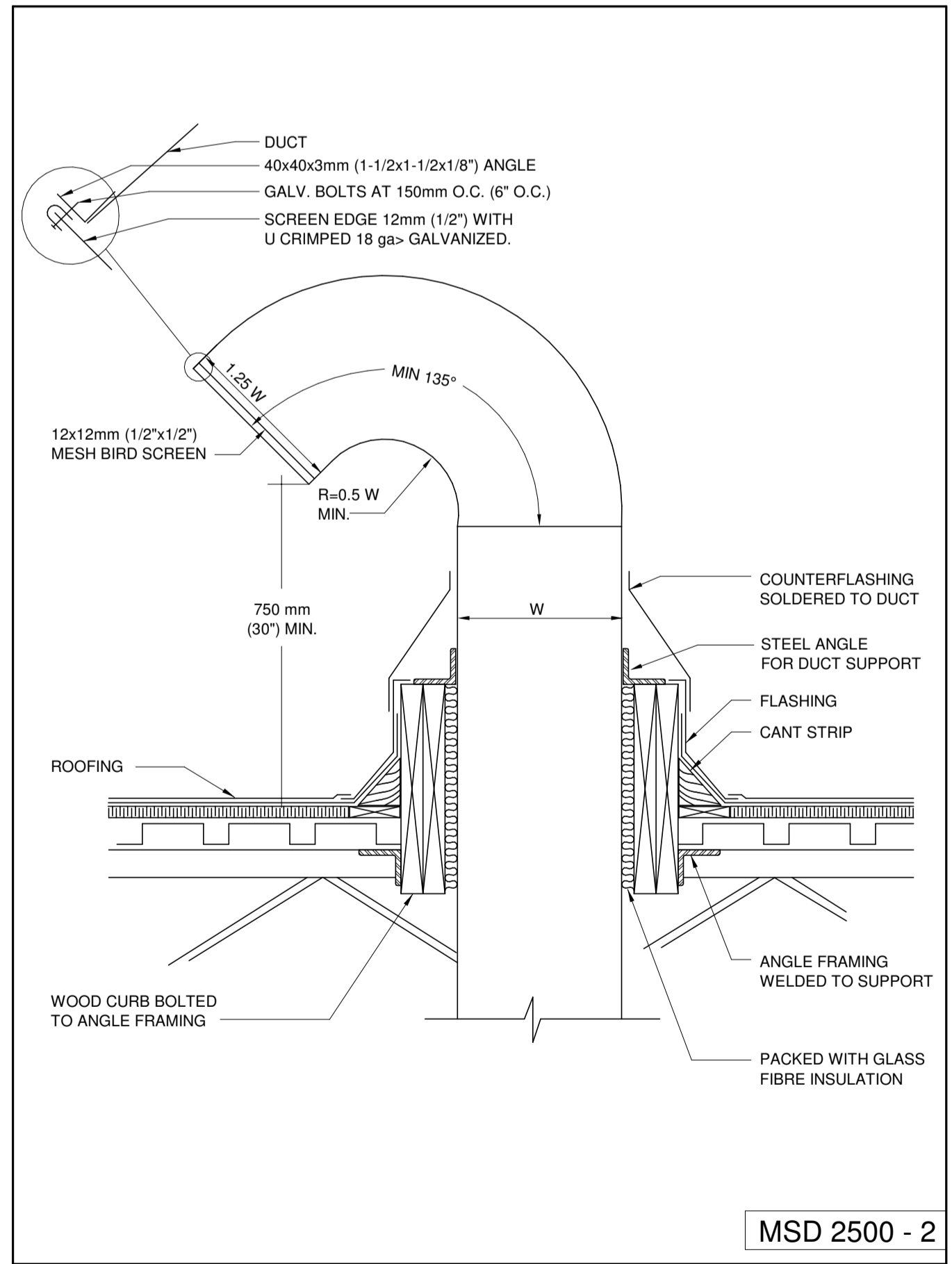
1 ROOF EXHAUSTER DETAIL
N.T.S.



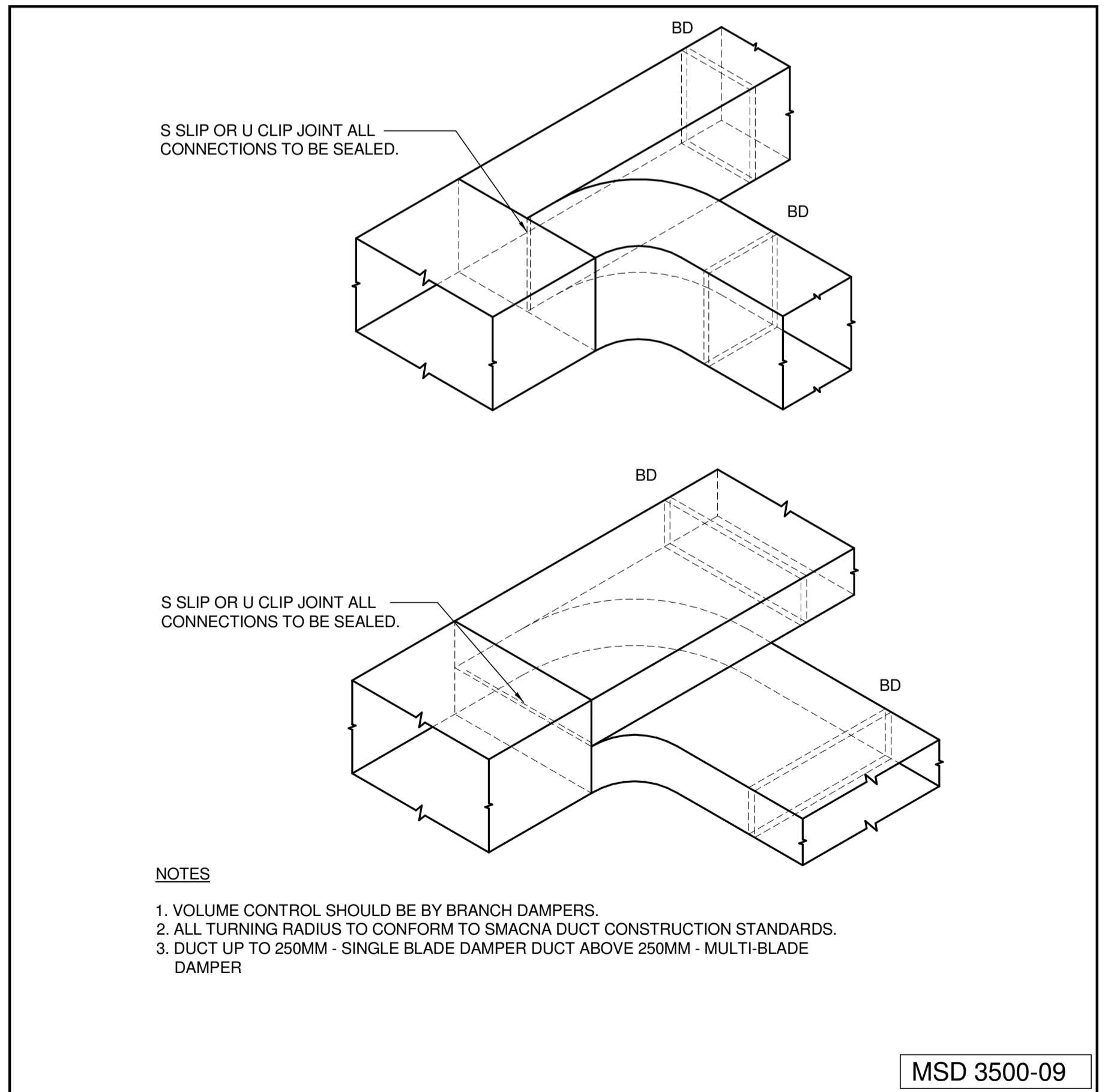
2 TYPICAL ROOF CURB DETAIL FOR EQUIPMENT SUPPORT
N.T.S.



3 LOUVERED PENTHOUSE DETAILS
N.T.S.



4 DETAIL OF INLET - OUTLET WITH GOOSE NECK THROUGH ROOF
N.T.S.



5 DETAILS OF DIVIDED FLOW BRANCHES
N.T.S.

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drawing title
titre du dessin
SHEET 3 MECHANICAL DETAILS

drawn by
dessiné par
Author

designed by
conçu par
SS

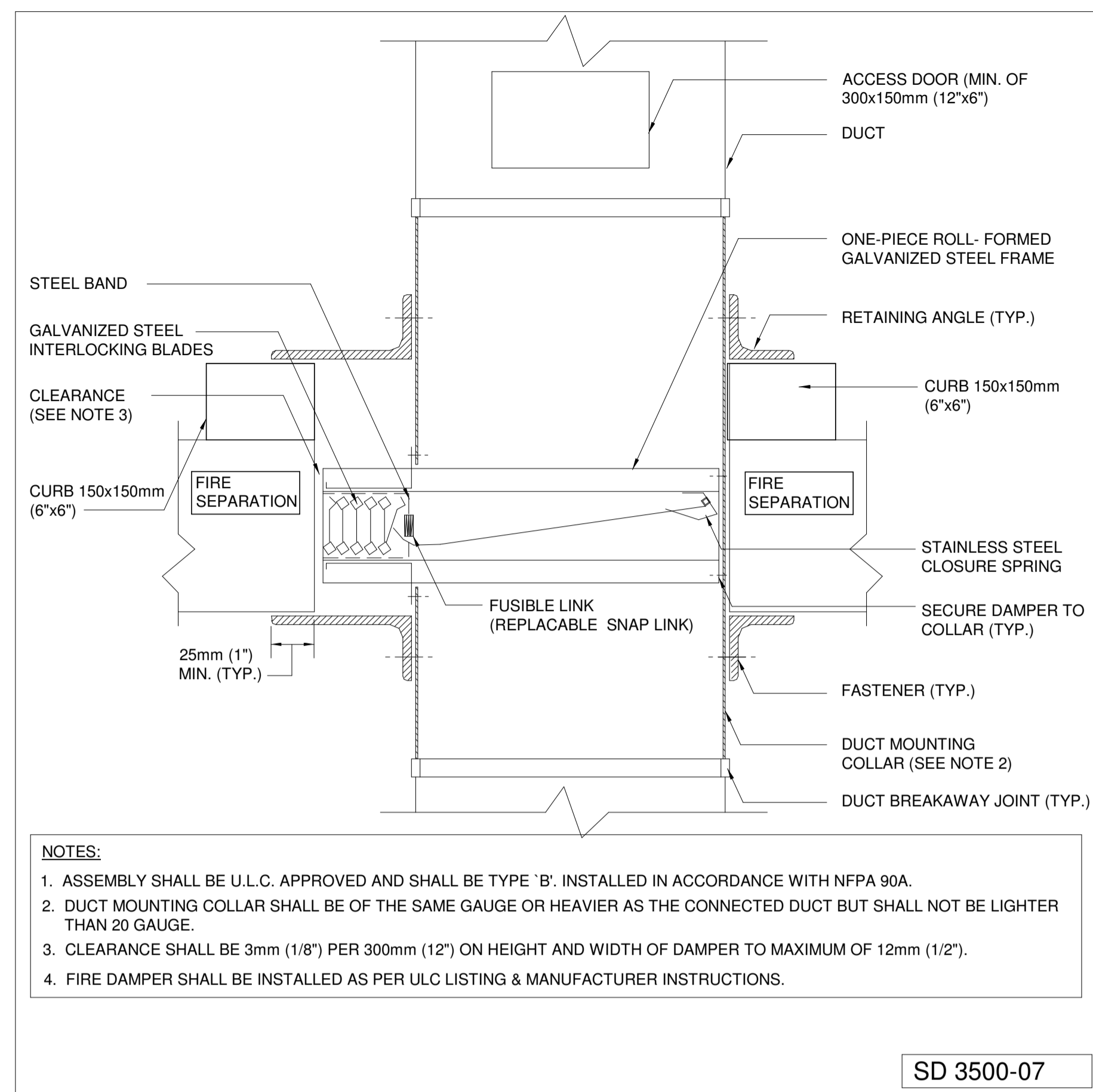
approved by
approuvé par
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bid
offre
KG project manager
administrateur de projets

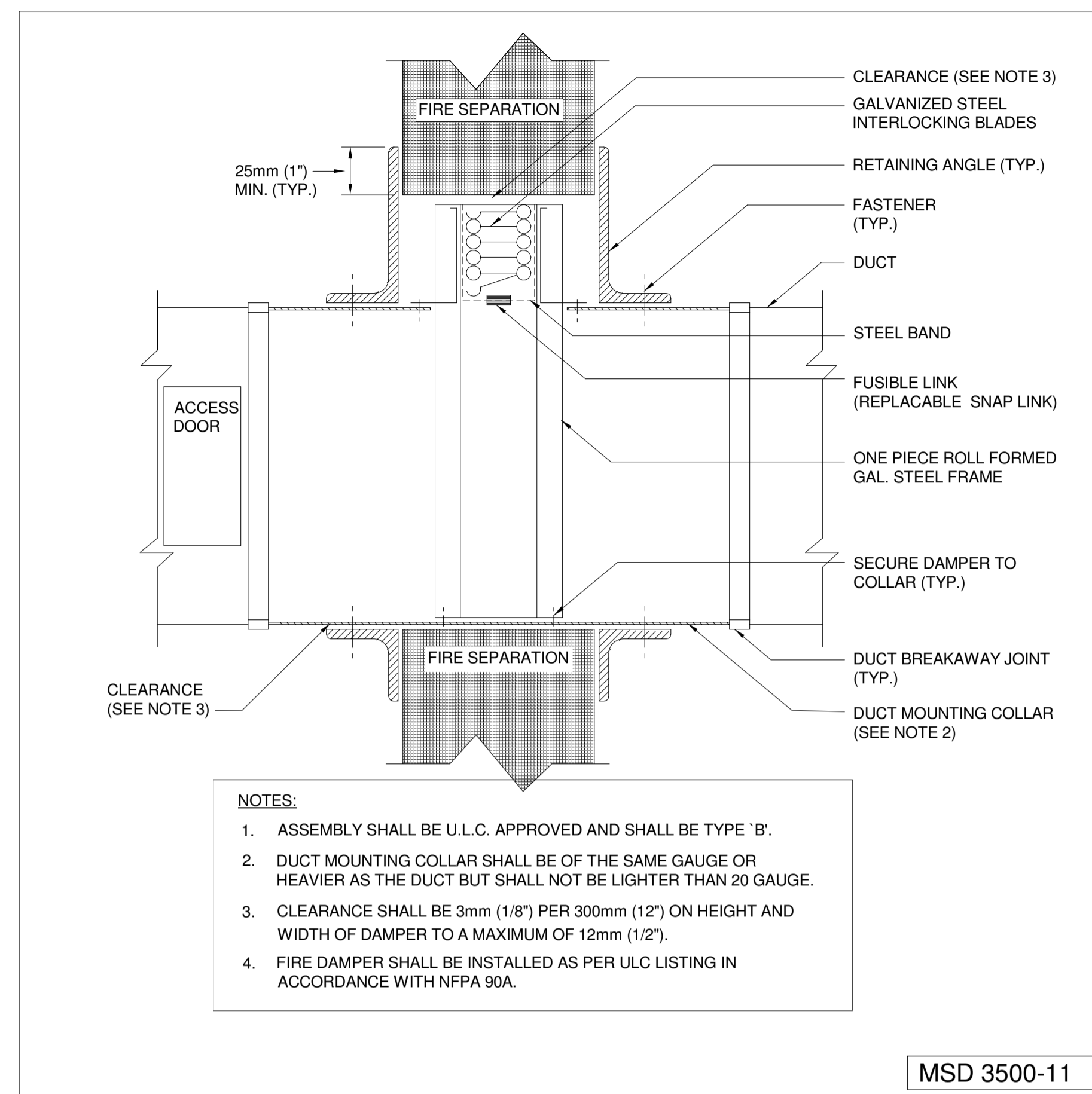
project date
date du projet
2021-07-26

project no.
no. du projet
R.079827.001

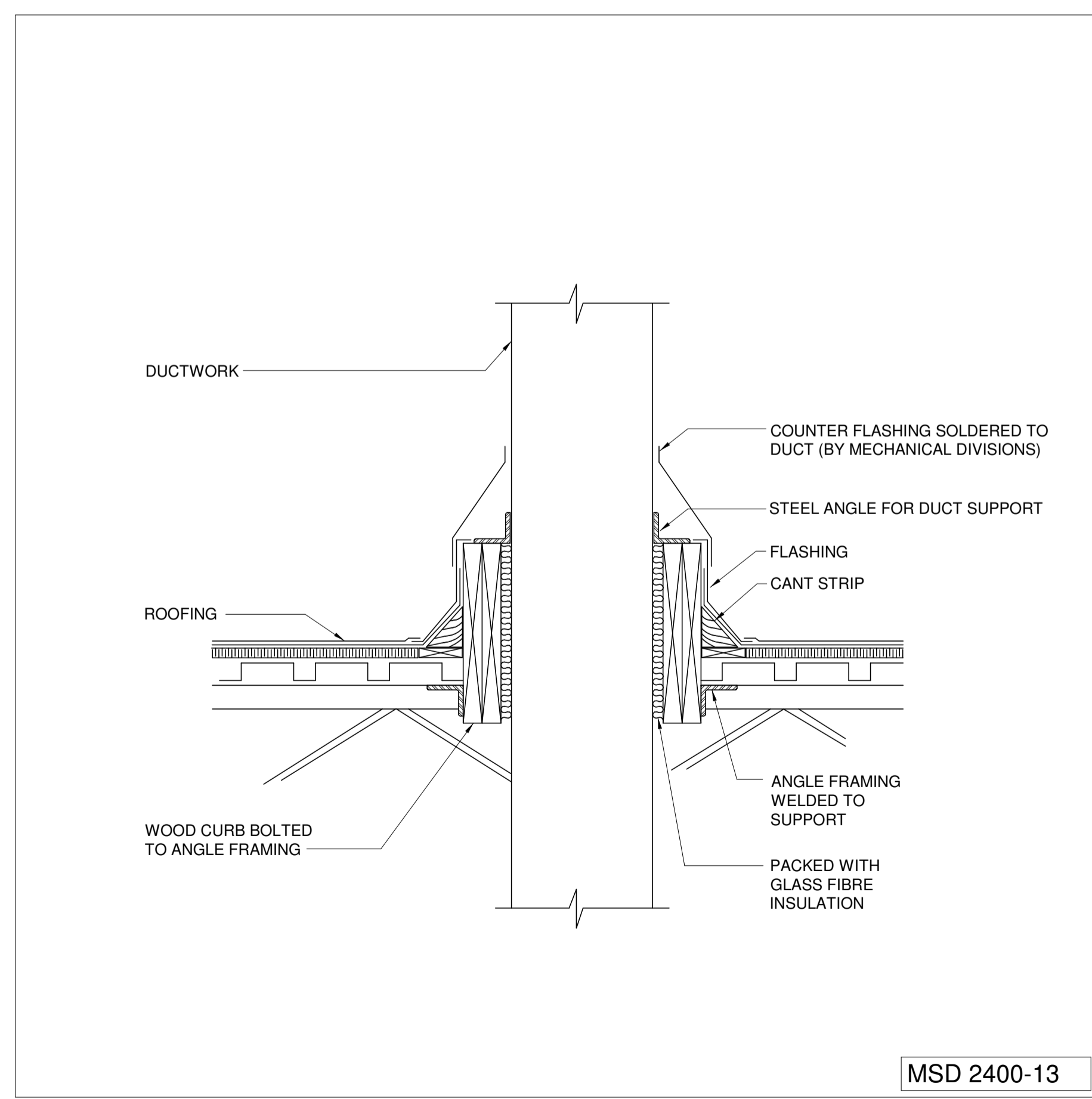
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dessiné no.
M903



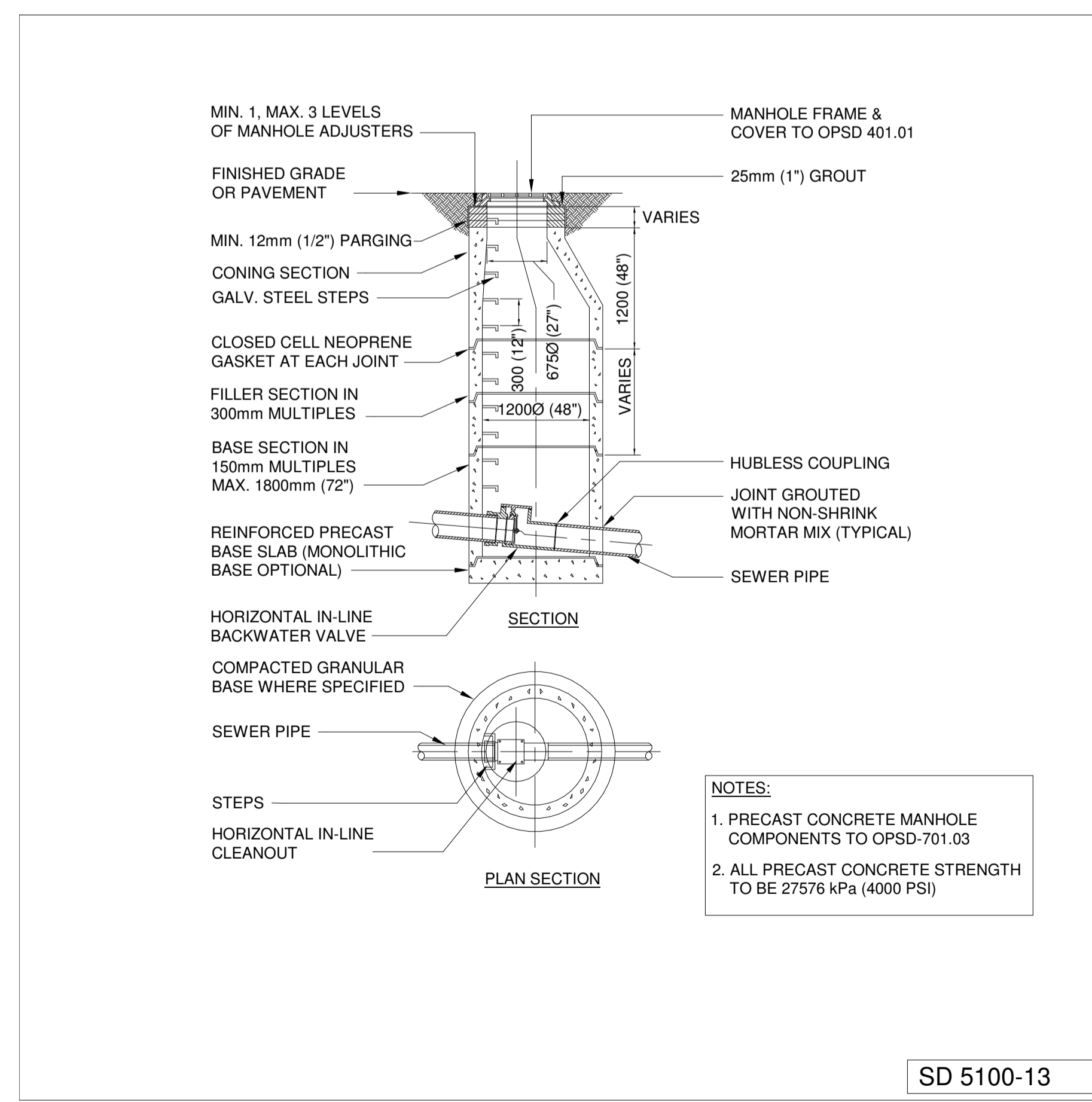
1 DUCT PENETRATION THROUGH FLOOR C.W FIRE DAMPER
N.T.S.



2 DUCT PENETRATION THROUGH WALL C.W FIRE DAMPER
N.T.S.



3 DUCT THROUGH ROOF
N.T.S.



4 REINFORCED PRECAST CONCRETE MANHOLE WITH BACKWATER VALVE
N.T.S.

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LICENSED PROFESSIONAL ENGINEER
A. J. PRATT
July 26, 2021
PROVINCE OF ONTARIO

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SEARCH & RESCUE STATION
ST. CATHARINES
DEMOLITION, RENOVATION,
AND NEW CONSTRUCTION

drawing title
titre du dessin
SHEET 4
MECHANICAL DETAILS

drawn by
dessiné par Author

designed by
conc par SS

approved by
approuvé par AP


bid
offre KG project manager
administrateur de projets

project date
date du projet 2021-07-26

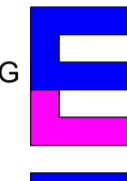
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no. du projet **R.079827.001**

drawing no.
dessiné no. **M904**

PORT WELLER SEARCH AND RESCUE STATION ST. CATHARINES ONTARIO

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Travaux publics et
Services gouvernementaux Canada

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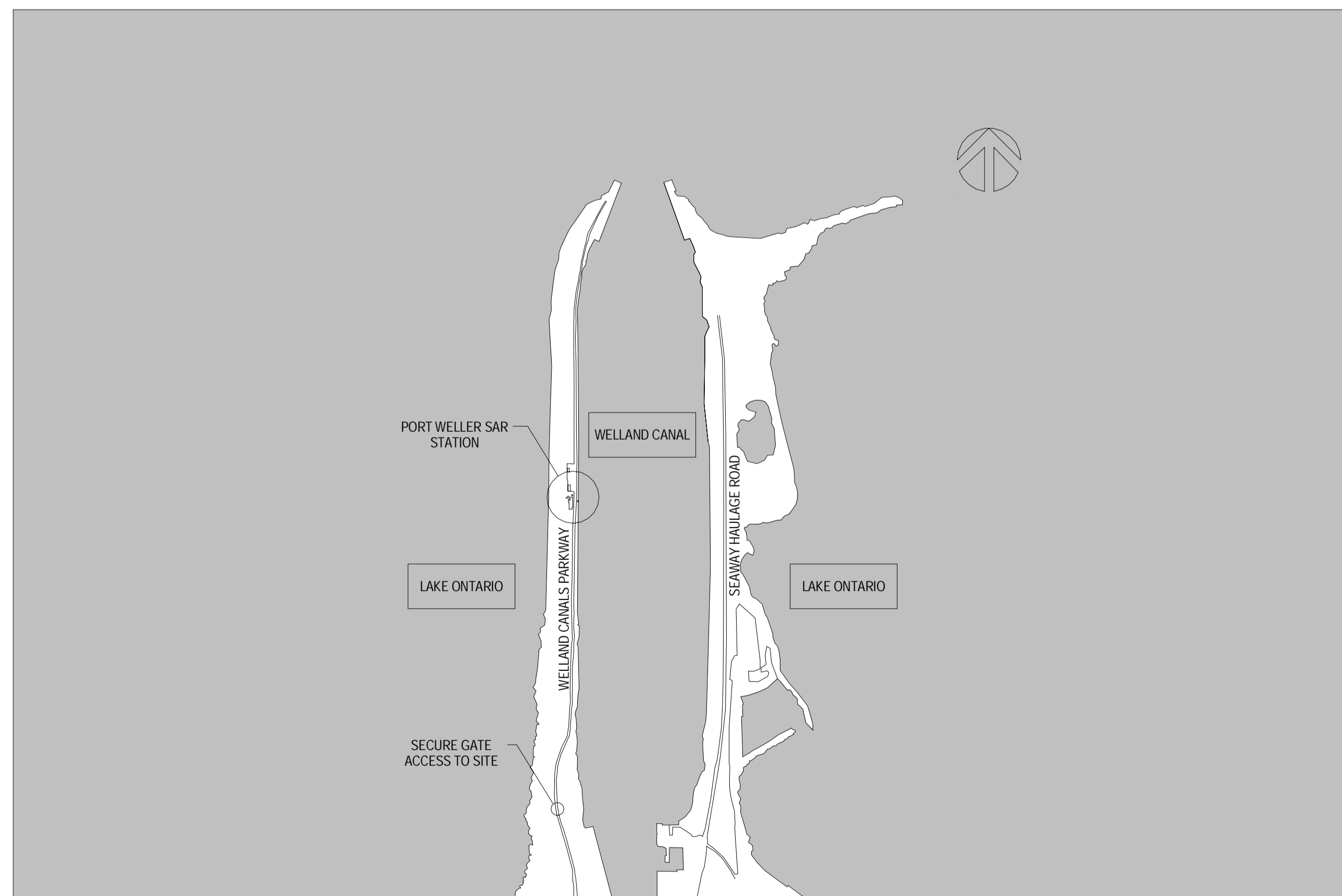
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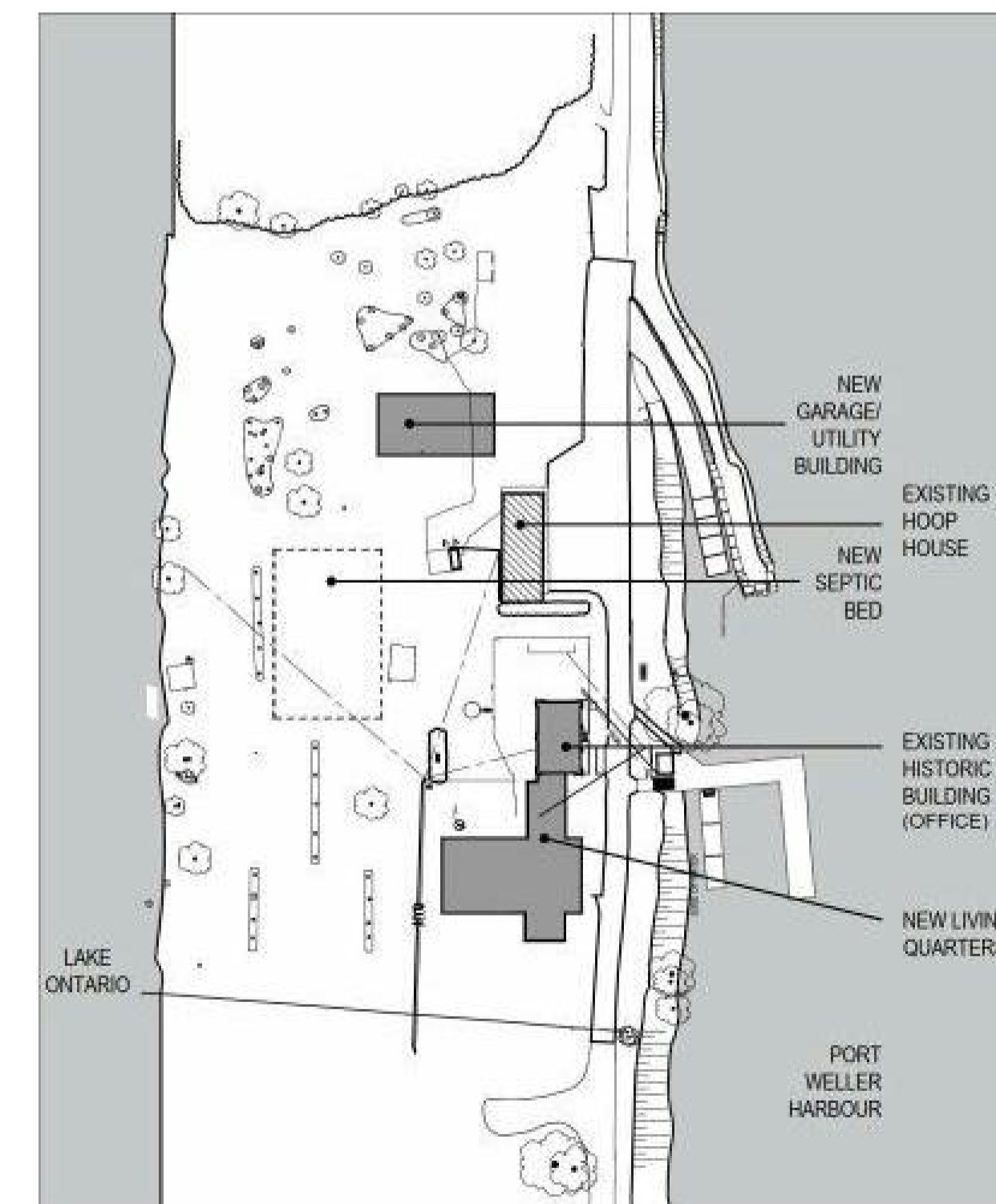


| ELECTRICAL DRAWING LIST | |
|-------------------------|--|
| Sheet Number | Sheet Name |
| E000 | COVER, KEY PLAN LOCATION AND DRAWING LIST |
| E001 | ELECTRICAL LEGEND AND NOTES |
| E002 | PANEL AND LUMINAIRE SCHEDULE |
| E100 | SITE PLAN |
| E101 | ELECTRICAL DETAILS #2 |
| E200 | LIVING QUARTERS & OFFICE - POWER LAYOUT |
| E201 | ROOF - POWER LAYOUT |
| E202 | LIVING QUARTERS & OFFICE - SYSTEMS LAYOUT |
| E203 | LIVING QUARTERS & OFFICE - LIGHTING LAYOUT |
| E301D | EXISTING BUILDINGS DEMOLITION POWER LAYOUT |
| E400 | GARAGE/WORKSHOP- POWER LAYOUT |
| E401 | GARAGE/WORKSHOP- LIGHTING AND SYSTEMS LAYOUT |
| E500 | ELECTRICAL SINGLE LINE DIAGRAM |
| E901 | ELECTRICAL DETAILS |

Grand total: 14



1 Location Plan
E000 1:10000



2 KEY PLAN
E000 N.T.S.

| No. | Revision Description | Date |
|-----|----------------------|------------|
| 1 | ISSUED FOR TENDER | 2021-07-26 |

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project title / titre du projet: **PORT WELLER SEARCH AND RESCUE STATION**

ONTARIO DEPARTMENT OF FISHERIES AND OCEANS
SEARCH & RESCUE STATION ST. CATHARINES PARTIAL DEMOLITION, ADDITION AND RESTORATION
ST. CATHARINES ONTARIO

drawing title / titre du dessin: **COVER, KEY PLAN LOCATION AND DRAWING LIST**

drawn by / dessiné par: R.C.

designed by / conçu par: A.O.

approved by / approuvé par: D.S.

bid offer / offre: KG project manager / administrateur de projets

project date / date du projet: 2021-07-26

project no. / no. du projet: R.079827.001

drawing no. / dessin no.: E000

ELECTRICAL LEGEND

POWER LEGEND

- 15A-125V 2P-3W GROUNDED DUPLEX RECEPTACLE, WALL MOUNTED
- 15/20A-125V 2P-3W GROUNDED DUPLEX RECEPTACLE, WALL MOUNTED
- 15A-125V 2P-3W ISOLATED GROUND DUPLEX RECEPTACLE, WALL MOUNTED (SS-DENOTES SURGE SUPPRESSION TYPE)
- 15A-125V 2P-3W GFI GROUNDED DUPLEX RECEPTACLE, WALL MOUNTED
- 15A-125V 2P-3W GROUNDED DUPLEX RECEPTACLE, WALL MOUNTED 150mm ABOVE COUNTER TOP
- 15A-125V 2P-3W GROUNDED DUPLEX RECEPTACLE, SPLIT WIRED, WALL MOUNTED
- 15A-125V 2P-3W GROUNDED DUPLEX RECEPTACLE, SPLIT WIRED, WALL MOUNTED 150mm ABOVE COUNTER TOP
- 15A-125V 2P-3W GROUNDED TWO (2) GANGED RECEPTACLES (QUADRUPLE), WALL MOUNTED
- 15A-125V 2P-3W ISOLATED GROUNDED TWO (2) GANGED RECEPTACLES (QUADRUPLE), WALL MOUNTED
- 15A-125V 2P-3W GROUNDED DUPLEX RECEPTACLE, WALL MOUNTED - DEDICATED CIRCUIT
- 15A-125V 2P-3W GROUNDED DUPLEX RECEPTACLE, WALL MOUNTED - c/w USB CHARGER
- 15A-125V 2P-3W GROUNDED DUPLEX RECEPTACLE MOUNTED IN CEILING (SPACE)
- 15A-125V 2P-3W GROUNDED SINGLE RECEPTACLE
- 15A-125V-2P-3W GROUNDED TWO (2) GANGED RECEPTACLES (QUADRUPLE), MOUNTED WITHIN FLUSH FLOOR BOX. REFER TO SPECIFICATIONS.
- 20A-125V 2P-3W GROUNDED SINGLE RECEPTACLE, TWIST-LOCK, [CSA L5-20R]
- MULTI-GANG OUTLET BOX, WALL MOUNTED, c/w RECEPTACLES. REFER TO DETAIL SHEETS.
- 50A-250V 2P-3W GROUNDED SINGLE RECEPTACLE [CSA L6-50R]
- 120V CONNECTION TO EQUIPMENT
- 240V, 1PH CONNECTION TO EQUIPMENT
- DISCONNECT SWITCH
- COMBINATION MAGNETIC MOTOR STARTER
- MANUAL MOTOR STARTER
- MAGNETIC MOTOR STARTER
- VARIABLE SPEED CONTROLLER, SUPPLIED BY MECHANICAL SUB-CONTRACTOR, INSTALLED AND WIRED BY ELECTRICAL SUB-CONTRACTOR
- VARIABLE FREQUENCY DRIVE
- THERMOSTAT, SUPPLIED BY MECHANICAL DEPARTMENT REPRESENTATIVE, INSTALLED AND WIRED BY ELECTRICAL SUB-CONTRACTOR
- CONTACTOR
- TIME SWITCH
- PUSH-BUTTON STATION, WITH DOOR HARDWARE, SINGLE GANG BACKBOX AND FINAL TERMINATION BY ELECTRICAL SUB-CONTRACTOR (H/C DENOTES HANDICAPPED DOOR PUSHPLATE)
- EMERGENCY POWER OFF BUTTON. (M - DENOTES MASTER STATION)
- OVERHEAD DOOR CONTROLLER (BY OTHERS)
- DOOR OPERATOR SUPPLIED WITH DOOR HARDWARE, 120V POWER CONNECTION PROVIDED BY ELECTRICAL SUB-CONTRACTOR
- ELECTRIC HEATER, SUPPLIED BY MECHANICAL SUB-CONTRACTOR, INSTALLED AND WIRED BY ELECTRICAL SUB-CONTRACTOR
- DENOTES BASEBOARD HEATER No.1 - REFER TO MECHANICAL SCHEDULES.
- TRANSFORMER (TX), FLOOR MOUNTED, COMPLETE WITH 100mm (4") HIGH HOUSEKEEPING PAD
- PANELBOARD, RECESSED OR SURFACE MOUNTED. REFER TO PANEL SCHEDULES.
- TYPICAL DESIGNATIONS FOR POWER PANEL ARE AS FOLLOWS:
FLOOR (B=BASEMENT 1=GROUND FLOOR, 2=SECOND FLOOR, S=SITE)
DESIGNATION (A-Z=NORMAL POWER, E,F,X,Y=EMERGENCY POWER)
VOLTAGE (2=120/208V, 4=277/480V, 6=347/600V)
DP - DENOTES DISTRIBUTION PANEL
LP - DENOTES LIGHTING PANEL
PP - DENOTES POWER/RECEPTACLE PANEL
- SM DENOTES PROGRAMMABLE PRIORITY LOAD MANAGEMENT
- DENOTES ROOF SCUPPER AREA SNOWMELTING CABLES

DISTRIBUTION LEGEND

- GROUND ROD
- GROUND PLATE
- FUSE
- CIRCUIT BREAKER (FIXED)
- FUSED DISCONNECT SWITCH
- UNFUSED DISCONNECT SWITCH
- SINGLE PHASE MOTOR
- PANELBOARD c/w BREAKERS AND FEEDER
- BUS DUCT
- FEEDER
- TRANSFORMER c/w COPPER WINDINGS AND CORE
- GROUND FAULT INTERRUPTER
- DIGITAL METERING SYSTEM
- IN-LINE UTILITY METER CABINET. COORDINATE REQUIREMENTS WITH UTILITY DEPARTMENT
- REMOTE METER CABINET
- METER SOCKET WITH METER
- CONTACTOR
- AMMETER
- RELAY
- RELAY COIL
- GENERATOR REMOTE ANNUNCIATOR PANEL
- SURGE PROTECTION DEVICE
- DENOTES THE TYPE OF SPD
- DENOTES THE PER PHASE kA RATING OF THE MOVs
- DENOTES THE NOMINAL DISCHARGE CURRENT RATING
- NOTE: SPD IS INTERCONNECTED TO THE BUILDING AUTOMATION SYSTEM (BAS) TO INDICATE SPD FAILURE.
- NORMALLY OPEN RELAY CONTACT (FORM A)
- NORMALLY CLOSED RELAY CONTACT (FORM B)

TELECOMMUNICATION LEGEND

- DATA OR VOICE OUTLET - WALL MOUNTED c/w 1" (27mm) CONDUIT BACK TO SSC COMMUNICATION ROOM
- WIRELESS ACCESS POINT - PROVIDE 2 x CAT6 CABLES TO EACH WIRELESS ACCESS POINT
- DATA OUTLET - CEILING MOUNTED c/w 1" (27mm) CONDUIT BACK TO SSC COMMUNICATION ROOM / CLOSET OR LOCAL CABLE TRAY
- TYPICAL DESCRIPTION FOR DATA/VOICE BOX
- NONE - DENOTES 1 CAT6 CABLE
- (2D) / (3D) - DENOTES QUANTITY OF CAT6 DATA/VOICE CABLES

AUDIO / VIDEO SYSTEM LEGEND

- TV LOCATION - WALL MOUNTED PROVIDE COAXIAL CABLE AND OUTLET AT THIS LOCATION c/w 3/4" (21mm) CONDUIT
- AUDIO VISUAL INTERCOM STATION
- EXTERIOR CAMERA
- EXTERIOR SPEAKER

LIGHTING LEGEND

- EXTERIOR POLE LUMINAIRE - REFER TO SCHEDULE
- LED LUMINAIRE - REFER TO SCHEDULE
- LED LUMINAIRE. REFER TO SCHEDULE
- LUMINAIRE CONNECTED TO EMERGENCY CIRCUIT
- LIGHT TRACK TYPE LT1. NUMBER IN BRACKETS DENOTES QUANTITY AND TYPE OF TRACK MOUNTED LUMINAIRES.
- PENDANT LUMINAIRE
- WALL WASHER LUMINAIRE
- ACCENT LUMINAIRE
- SQUARE DOWNLIGHT LUMINAIRE
- CEILING/WALL MOUNTED EXIT SIGN. X21, X31, X40, X48 DENOTES MOUNTING ARRANGEMENTS.
- EMERGENCY BATTERY LIGHTING REMOTE HEAD(S) CEILING/WALL MOUNTED. REFER TO LUMINAIRE SCHEDULE ON DWG E002.
- EMERGENCY LIGHTING BATTERY UNIT c/w RECEPTACLE AND HEAD(S) AS DETAILED
- DENOTES EMERGENCY BATTERY PACK NUMBER
- SINGLE POLE, SINGLE THROW TOGGLE SWITCH ('3' DENOTES 3-WAY, 'LV' DENOTES LOW VOLTAGE, 'M' DENOTES MASTER, 'K' DENOTES KEY SWITCH)
- GANGED TOGGLE SWITCHES - 2, 3, 4 GANG
- DIMMER SWITCH ('F' DENOTES FLUORESCENT DIMMER)
- OCCUPANCY SENSOR - CEILING MOUNTED, NUMBER INDICATES TYPE. REFER TO SPECIFICATION.
- OCCUPANCY SENSOR - WALL MOUNTED, NUMBER INDICATES TYPE. REFER TO SPECIFICATION.
- DAYLIGHT SENSOR - CEILING MOUNTED, NUMBER INDICATES TYPE. REFER TO SPECIFICATION.
- TIME SWITCH FOR LIGHTING CONTROL
- PHOTOCELL FOR LIGHTING CONTROL
- TYPICAL CIRCUIT DESIGNATIONS FOR LIGHTING PANEL IS AS FOLLOWS:
SWITCH LEG
CIRCUIT NUMBER
PANEL DESIGNATION
- TYPICAL CIRCUIT DESIGNATIONS FOR RELAY PANEL IS AS FOLLOWS:
LOW VOLTAGE SWITCH LEG
RELAY NUMBER
RELAY PANEL DESIGNATION
CIRCUIT NUMBER
PANEL DESIGNATION
- TYPICAL CIRCUIT NUMBER
- TYPICAL LUMINAIRE TYPE

GENERAL NOTES

- THIS DRAWING IS A MASTER LEGEND DRAWING. SOME SYMBOLS MAY NOT APPEAR WITHIN THE DOCUMENTS NOR BE APPLICABLE TO THIS PROJECT. IT IS THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR TO OBTAIN FULL UNDERSTANDING OF THIS LEGEND.
- ELECTRICAL DRAWINGS SHALL BE READ IN CONJUNCTION WITH LATEST ARCHITECTURAL, STRUCTURAL, CIVIL, AND MECHANICAL DOCUMENTS AT ALL TIMES. IT SHALL BE THE ELECTRICAL CONTRACTOR'S RESPONSIBILITY TO OBTAIN ALL THE LATEST DOCUMENTS PRIOR TO BID SUBMISSION AND CONSTRUCTION.
- TAKE NOTE OF THE DRAWING SCALES AND GOVERN HIMSELF ACCORDINGLY.

MISCELLANEOUS LEGEND

- C DENOTES CEILING MOUNTED
- K DENOTES KEY OPERATED
- PL DENOTES ON/OFF SWITCH c/w PILOT LIGHT
- SC DENOTES SEPARATE CIRCUIT
- IG DENOTES ISOLATED GROUND
- GFI DENOTES GROUNDED FAULT INTERRUPTER
- TL DENOTES TWISTLOCK
- WT DENOTES WATERTIGHT (CSA ELOSURE 4)
- WP DENOTES WATERPROOF (CSA ELOSURE 3)
- EXP DENOTES EXPLOSION PROOF
- CHP DENOTES CHILDPROOF
- TP DENOTES TAMPER PROOF
- WG DENOTES WIRE GUARD
- MW DENOTES MOUNTED IN MILLWORK
- CH DENOTES DEVICE MOUNTED 150mm ABOVE COUNTER TOP
- H/C DENOTES HANDICAP PUSH BUTTON
- EC DENOTES EMPTY CONDUIT
- RB DENOTES RELAY BASE
- DENOTES RECESSED/SURFACE MOUNTED JUNCTION BOX
- DENOTES RECESSED/SURFACE MOUNTED PULL BOX
- DENOTES MECHANICAL EQUIPMENT
- SPD DENOTES SURGE PROTECTION DEVICE
- E DENOTES EXISTING ITEM TO REMAIN
- R DENOTES EXISTING ITEM TO BE REMOVED
- ER DENOTES EXISTING ITEM TO BE RELOCATED
- RE DENOTES EXISTING ITEM IN RELOCATED POSITION
- RW DENOTES EXISTING DEVICE PROVIDED WITH NEW WIRING
- DASHED LINE DENOTES EXISTING ITEM UNLESS OTHERWISE NOTED
- DASHED LINE DENOTES UNDERGROUND DUCT
- FAN CONTROL

MAXIMUM NUMBER OF CABLES BASED 40% UPON ALLOWABLE FILL

| CONDUIT TRADE SIZE | CABLE OUTSIDE DIAMETER, mm (inch) | | | | | |
|--------------------|-----------------------------------|------------|------------|------------|------------|-------------|
| | 5.6 (0.22) | 6.1 (0.24) | 7.4 (0.29) | 7.9 (0.31) | 9.4 (0.37) | 13.5 (0.53) |
| 16 (1/2) | 0 | 0 | 0 | 0 | 0 | 0 |
| 21 (3/4) | 4 | 3 | 2 | 2 | 1 | 0 |
| 27 (1) | 7 | 6 | 3 | 3 | 2 | 1 |
| 35 (1 1/4) | 12 | 10 | 6 | 4 | 3 | 1 |
| 41 (1 1/2) | 16 | 15 | 7 | 6 | 4 | 2 |
| 53 (2) | 22 | 20 | 14 | 12 | 7 | 4 |
| 63 (2 1/2) | 36 | 30 | 17 | 14 | 12 | 6 |
| 78 (3) | 50 | 40 | 20 | 20 | 17 | 7 |
| 91 (3 1/2) | - | - | - | - | 22 | 12 |
| 103 (4) | - | - | - | - | 30 | 14 |

FIRE ALARM LEGEND

- 120 VOLT PHOTOELECTRIC SMOKE ALARM c/w SPEAKER - CEILING MOUNTED

TAYLOR HAZELL ARCHITECTS LTD.
333 Adelaide Street West
5th Floor
Toronto, Ontario, M5V 1R5
Telephone: (416) 862-2634
Facsimile: (416) 862-8401

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| No. | Revision Description | Date |
|-----|----------------------|------------|
| 1 | ISSUED FOR TENDER | 2021-07-26 |

project title
titre du projet
PORT WELLER SEARCH AND RESCUE STATION

ONTARIO DEPARTMENT OF FISHERIES AND OCEANS
SEARCH & RESCUE STATION ST. CATHARINES PARTIAL DEMOLITION, ADDITION AND RESTORATION

ST. CATHARINES ONTARIO

drawing title
titre du dessin
ELECTRICAL LEGEND AND NOTES

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conçu par
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approuvé par
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bid offer
offre
KG

project manager
administrateur de projets

project date
date du projet
2021-07-26

project no.
no. du projet
R.079827.001

drawing no.
dessiné no.
E001

LUMINAIRE SCHEDULE

| TYPE | DESCRIPTION | VOLTAGE | LAMP | REMARKS |
|------------|--|---------|---------------------------------------|---|
| B | SUSPENDED CEILING FAN COMPLETE WITH INTEGRATED LED LIGHT; 1.3 METER FAN SWEEP, UNIVERSAL MOUNT FOR FLAT OR SLOPED CEILING; FAN SUITABLE FOR; SUITABLE FOR HAND HELD REMOTE CONTROL AND WALL CONTROL; FAN MOTOR EC WITH DIGITAL INVERTER DRIVE | 120V | 20 WATT LED 988 LUMENS 2700K @ 82 CRI | FINISHED IN WHITE |
| P | 100mm APERTURE RECESSED OPEN REFLECTOR DOWNLIGHT COMPLETE WITH SINGLE WALL DIE-FORMED HOUSING; GALVANIZED DIE-FORMED PLASTER FRAME; HIGH EFFICIENCY LED HOUSING; NONE INSULATED CEILING AND HAZE REFLECTOR | 120V | 13W LED 3500K 90 CRI | |
| FA2 | SURFACE UNDER CABINET LED LUMINAIRE COMPLETE WITH INTEGRAL DRIVER; SLIM PROFILE EXTRUDED ALUMINUM; CLEAR PRISMATIC TEMPERED GLASS 559mm/762mm LONG X 51mm DEEP. | 120V | 8.1/ 10.7 WATTS LED 3000K, 56 LUMENS | LENGTH SIZED TO FIT CABINETS |
| LA2 | RECESSED 1200mm LONG LED LUMINAIRE COMPLETE WITH EXTRUDED ALUMINUM HOUSING; WHITE POWDERED COATED STEEL REFLECTORS; FROSTED ACRYLIC LENS; SUITABLE FOR DRYWALL CEILING AND INTEGRAL LED DRIVER | 120V | 28.7W LED 3500K | |
| LD2 | CHAIN 1200mm LONG SUSPENDED INDUSTRIAL LED LUMINAIRE COMPLETE WITH 20 GAUGE(0.81mm) STEEL HOUSING WITH SLOTTED REFLECTORS; HIGH GLOSS BAKED WHITE ENAMEL FINISH; INTEGRAL LED DRIVERS | 120V | 2 LAMP LED 75W 3500K | INSTALLED WORKSHOP AREA GARAGE |
| LX1 | 293mm H X 189mm W X 95mm D WALL PACK SURFACE MOUNTED LED LUMINAIRE COMPLETE WITH A CAST ALUMINUM HOUSING; VANDAL PROOF FROSTED POLYCARBONATE LENS; INTEGRAL LED DRIVER AND FINISHED IN BRONZE. SUITABLE FOR WEATHERPROOF APPLICATION. | 120V | 38W LED 4015 LUMENS, 4000K | FINAL FINISH TO BE CONFIRMED BY DEPARTMENT REPRESENTATIVE |
| EM1 | SURFACE MOUNTED REMOTE SINGLE HEAD EMERGENCY LIGHT | 12V | 1 LAMP LED MR16 1X4W | FINISHED IN WHITE |
| EM2 | SURFACE MOUNTED REMOTE DOUBLE HEAD EMERGENCY LIGHT | 12V | 2 LAMP LED MR16 2X4W | FINISHED IN WHITE |
| EM3 | REMOTE RECESSED 100mm DIA CEILING MOUNTED EMERGENCY BATTERY LIGHTING | 12V | 4W-MR16 LED | FINISHED IN WHITE |
| BU- | EMERGENCY BATTERY LIGHTING UNIT 120V SUPPLY; 12VDC OUTPUT, COMPLETE WITH 30 MINUTES OPERATING TIME; 100 WATTS CAPACITY; SEALED LONG LIFE BATTERY; SOLID STATE CHARGER AND TRANSFER; LOW VOLTAGE DISCONNECT AND DOUBLE HEAD LUMINAIRE. | 12V | 2X4W LED MR16 | FINISHED IN WHITE |
| FC2 | 300MM LONG STRIP WALL MOUNTED LED LUMINAIRE COMPLETE WITH FROSTED POLYCARBONATE LENS SUITABLE FOR MOUNTING ABOVE VANITY. | 120V | 8X4W LED | FINISHED IN WHITE |
| "X" SERIES | STENCIL FACE GREEN/WHITE RUNNING MAN, THIN PROFILE EXIT SIGN, ALUMINUM HOUSING LED TYPE. THE FRAME AND FACEPLATE SHALL BE ONE-PIECE CONSTRUCTED OF EXTRUDED ALUMINUM, WITH MACHINED ALUMINUM ENDCAPS, NO VISIBLE SCREWS ON FACEPLATE. UNIVERSAL MOUNTING FOR EDGE WALL, WALL AND CEILING. UNIVERSAL MULTI-DIRECTIONAL ARROWS OPTIONS AND RUNNING MAN PICTOGRAM RUNNING MAN TYPE GRAPHIC. LAMP MODULE SHALL BE SELF-CONTAINED INCLUDING ALL ELECTRONIC POWER COMPONENTS AND LED LIGHT SOURCES. THE SIGN SHALL EVENLY ILLUMINATE THE FRONT DIFFUSER. | 120V | 2.5W LED | |

PORT WELLER SEARCH AND RESCUE STATION

PANEL SCHEDULE

PP-2C1 LIVING QUARTERS

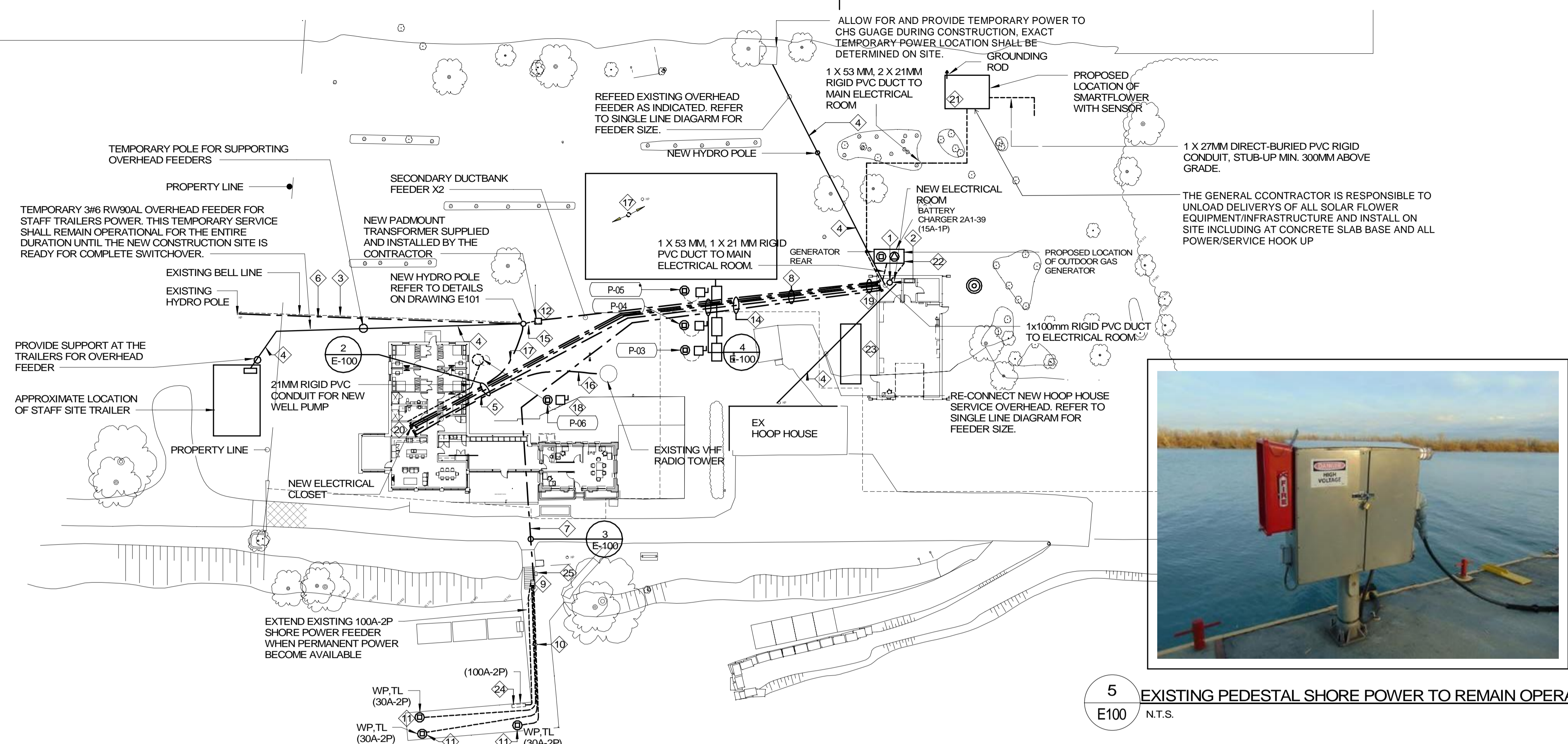
Project Number: R.079827.001

Location: LQ ELECT. RM
Mounting: SURFACE
Enclosure: 66
Circuit: 66
Supply from:

Volts: 120/240V
Phases: 1
Wires: 3
SPD: Yes
IG:

A.I.C. Rating: 22kA-SYMS-SCCR
Mains Type: MLO
Mains Rating: 225 A
MCB Rating: 0 A

| BREAKER | GF I | DESCRIPTION | DF | Cct | A | B | A | B | Cct | DF | DESCRIPTION | GF I | BREAKER |
|-----------|------|-------------------|------|-----|----------|---|----------|---|-----|-----|-----------------------|------|-----------|
| 30 A - 2P | No | (1)SPD; | 100% | 1 | 0.00 kVA | | 4.16 kVA | | 2 | 60% | (1)KITCHEN RANGE | No | 2P - 50 A |
| 15 A - 1P | No | (4)BEDROOM... | 75% | 5 | 1.00 kVA | | 1.00 kVA | | 6 | 75% | (4)BEDROOM... | No | 1P - 15 A |
| 15 A - 1P | No | (4)BEDROOM... | 75% | 7 | 1.00 kVA | | 1.00 kVA | | 8 | 75% | (4)BEDROOM... | No | 1P - 15 A |
| 15 A - 1P | No | (4)BEDROOM... | 75% | 9 | 1.00 kVA | | 1.00 kVA | | 10 | 75% | (4)BEDROOM... | No | 1P - 15 A |
| 15 A - 1P | No | (1)CH RECEPTACLE | 75% | 11 | 0.40 kVA | | 0.40 kVA | | 12 | 75% | (6)BEDROOM... | No | 1P - 15 A |
| 15 A - 1P | No | (1)CH RECEPTACLE | 75% | 13 | 0.40 kVA | | 0.75 kVA | | 14 | 75% | (3)LAUNDRY RECEPTACLE | No | 1P - 15 A |
| 15 A - 1P | No | (3)50% | 75% | 15 | 0.75 kVA | | 3.33 kVA | | 16 | 75% | (2)LAUNDRY... | No | 2P - 20 A |
| 15 A - 1P | No | (3)RECEPTACLES | 75% | 17 | 0.75 kVA | | 3.33 kVA | | 18 | 75% | (2)LAUNDRY... | No | 2P - 20 A |
| 20 A - 1P | No | (1)TS | 75% | 19 | 0.50 kVA | | 0.90 kVA | | 20 | 75% | (3)FRIDGE | No | 1P - 15 A |
| 15 A - 2P | No | (2)KITCHEN OUTLET | 75% | 21 | 1.50 kVA | | 0.80 kVA | | 22 | 75% | (2)ISLAND RECEPTACLE | Yes | 1P - 15 A |
| 20 A - 1P | No | (5)WINDOWS | 100% | 25 | 3.75 kVA | | 0.75 kVA | | 24 | 75% | (1)ISLAND DUPLEX | No | 2P - 15 A |
| 15 A - 1P | No | (5)RECEPTACLES | 75% | 27 | 1.25 kVA | | 0.50 kVA | | 28 | 75% | (2)RECEPTACLES | No | 1P - 15 A |
| 15 A - 1P | No | (16)SMOKE ALARM | 100% | 29 | 1.60 kVA | | 0.80 kVA | | 30 | 75% | (3)RECEPTACLE | No | 1P - 15 A |
| 15 A - 1P | No | (1)RECEPTACLE | 75% | 31 | 0.20 kVA | | 0.80 kVA | | 32 | 75% | (4)RECEPTACLES | No | 1P - 15 A |
| 15 A - 1P | No | (3)RECEPTACLES | 75% | 33 | 0.60 kVA | | 0.80 kVA | | 34 | 75% | (4)RECEPTACLE | No | 1P - 15 A |
| 15 A - 1P | No | (1)CH RECEPTACLE | 75% | 35 | 0.40 kVA | | 1.25 kVA | | 36 | 75% | (5)WP RECEPTACLE | No | 1P - 15 A |
| 15 A - 1P | No | (3)RECEPTACLES | 75% | 37 | 0.75 kVA | | 0.40 kVA | | 38 | 0 | | No | 1P - 15 A |
| 15 A - 2P | No | (1)HP-08 | 75% | 39 | 0.18 kVA | | 0.18 kVA | | 40 | 0 | | No | 2P - 15 A |
| 20 A - 1P | No | (1)HP-05 | 75% | 51 | 0.33 kVA | | 0.33 kVA | | 52 | 0 | | No | 2P - 15 A |
| 15 A - 2P | No | (1)HP-03 | 75% | 55 | 0.28 kVA | | 2.79 kVA | | 56 | 75% | (1)CU-03 | No | 2P - 30 A |
| 15 A - 2P | No | (1)HP-02 | 75% | 63 | 0.08 kVA | | 0.15 kVA | | 64 | 75% | (1)HP-01 | No | 2P - 15 A |
| 20 A - 1P | No | (5)WINDOWS | 100% | 37 | 4.50 kVA | | 3.75 kVA | | 38 | 75% | (1)DS-HWT-01/02 | No | 2P - 40 A |
| 20 A - 1P | No | (5)WINDOWS | 100% | 39 | 4.50 kVA | | 3.75 kVA | | 40 | 75% | (1)DS-HWT-01/02 | No | 2P - 40 A |
| 20 A - 1P | No | (5)WINDOWS | 100% | 37 | 4.50 kVA | | 3.75 kVA | | 38 | 75% | (1)DS-HWT-01/02 | No | 2P - 40 A |
| 20 A - 1P | No | (5)WINDOWS | 100% | 39 | 4.50 kVA | | 3.75 kVA | | 40 | 75% | (1)DS-HWT-01/02 | No | 2P - 40 A |
| 20 A - 1P | No | (5)WINDOWS | 100% | 37 | 4.50 kVA | | 3.75 kVA | | 38 | 75% | (1)DS-HWT-01/02 | No | 2P - 40 A |
| 20 A - 1P | No | (5)WINDOWS | 100% | 39 | 4.50 kVA | | 3.75 kVA | | 40 | 75% | (1)DS-HWT-01/02 | No | 2P - 40 A |
| 20 A - 1P | No | (5)WINDOWS | 100% | 37 | 4.50 kVA | | 3.75 kVA | | 38 | 75% | (1)DS-HWT-01/02 | No | 2P - 40 A |
| 20 A - 1P | No | (5)WINDOWS | 100% | 39 | 4.50 kVA | | 3.75 kVA | | 40 | 75% | (1)DS-HWT-01/02 | No | 2P - 40 A |
| 20 A - 1P | No | (5)WINDOWS | 100% | 37 | 4.50 kVA | | 3.75 kVA | | 38 | 75% | (1)DS-HWT-01/02 | No | 2P - 40 A |
| 20 A - 1P | No | (5)WINDOWS | 100% | 39 | 4.50 kVA | | 3.75 kVA | | 40 | 75% | (1)DS-HWT-01/02 | No | 2P - 40 A |
| 20 A - 1P | No | (5)WINDOWS | 100% | 37 | 4.50 kVA | | 3.75 kVA | | 38 | 75% | (1)DS-HWT-01/02 | No | 2P - 40 A |
| 20 A - 1P | No | (5)WINDOWS | 100% | 39 | 4.50 kVA | | 3.75 kVA | | 40 | 75% | (1)DS-HWT-01/02 | No | 2P - 40 A |
| 20 A - 1P | No | (5)WINDOWS | 100% | 37 | 4.50 kVA | | 3.75 kVA | | 38 | 75% | (1)DS-HWT-01/02 | No | 2P - 40 A |
| 20 A - 1P | No | (5)WINDOWS | 100% | 39 | 4.50 kVA | | 3.75 kVA | | 40 | 75% | (1)DS-HWT-01/02 | No | 2P - 40 A |
| 20 A - 1P | No | (5)WINDOWS | 100% | 37 | 4.50 kVA | | 3.75 kVA | | 38 | 75% | (1)DS-HWT-01/02 | No | 2P - 40 A |
| 20 A - 1P | No | (5)WINDOWS | 100% | 39 | 4.50 kVA | | 3.75 kVA | | 40 | 75% | (1)DS-HWT-01/02 | No | 2P - 40 A |
| 20 A - 1P | No | (5)WINDOWS | 100% | 37 | 4.50 kVA | | 3.75 kVA | | 38 | 75% | (1)DS-HWT-01/02 | No | 2P - 40 A |
| 20 A - 1P | No | (5)WINDOWS | 100% | 39 | 4.50 kVA | | 3.75 kVA | | 40 | 75% | (1)DS-HWT-01/02 | No | 2P - 40 A |
| 20 A - 1P | No | (5)WINDOWS | 100% | 37 | 4.50 kVA | | 3.75 kVA | | 38 | 75% | (1)DS-HWT-01/02 | No | 2P - 40 A |
| 20 A - 1P | No | (5)WINDOWS | 100% | 39 | 4.50 kVA | | 3.75 kVA | | 40 | 75% | (1)DS-HWT-01/02 | No | 2P - 40 A |
| 20 A - 1P | No | (5)WINDOWS | 100% | 37 | 4.50 kVA | | 3.75 kVA | | 38 | 75% | (1)DS-HWT-01/02 | No | 2P - 40 A |
| 20 A - 1P | No | (5)WINDOWS | 100% | 39 | 4.50 kVA | | 3.75 kVA | | 40 | 75% | (1)DS-HWT-01/02 | No | 2P - 40 A |
| 20 A - 1P | No | (5)WINDOWS | 100% | 37 | 4.50 kVA | | 3.75 kVA | | 38 | 75% | (1)DS-HWT-01/02 | No | 2P - 40 A |
| 20 A - 1P | No | (5)WINDOWS | 100% | 39 | 4.50 kVA | | 3.75 kVA | | 40 | 75% | (1)DS-HWT-01/02 | No | 2P - 40 A |
| 20 A - 1P | No | (5)WINDOWS | 100% | 37 | 4.50 kVA | | 3.75 kVA | | 38 | 75% | (1)DS-HWT-01/02 | No | 2P - 40 A |
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| 20 A - 1P | No | (5)WINDOWS | | | | | | | | | | | |



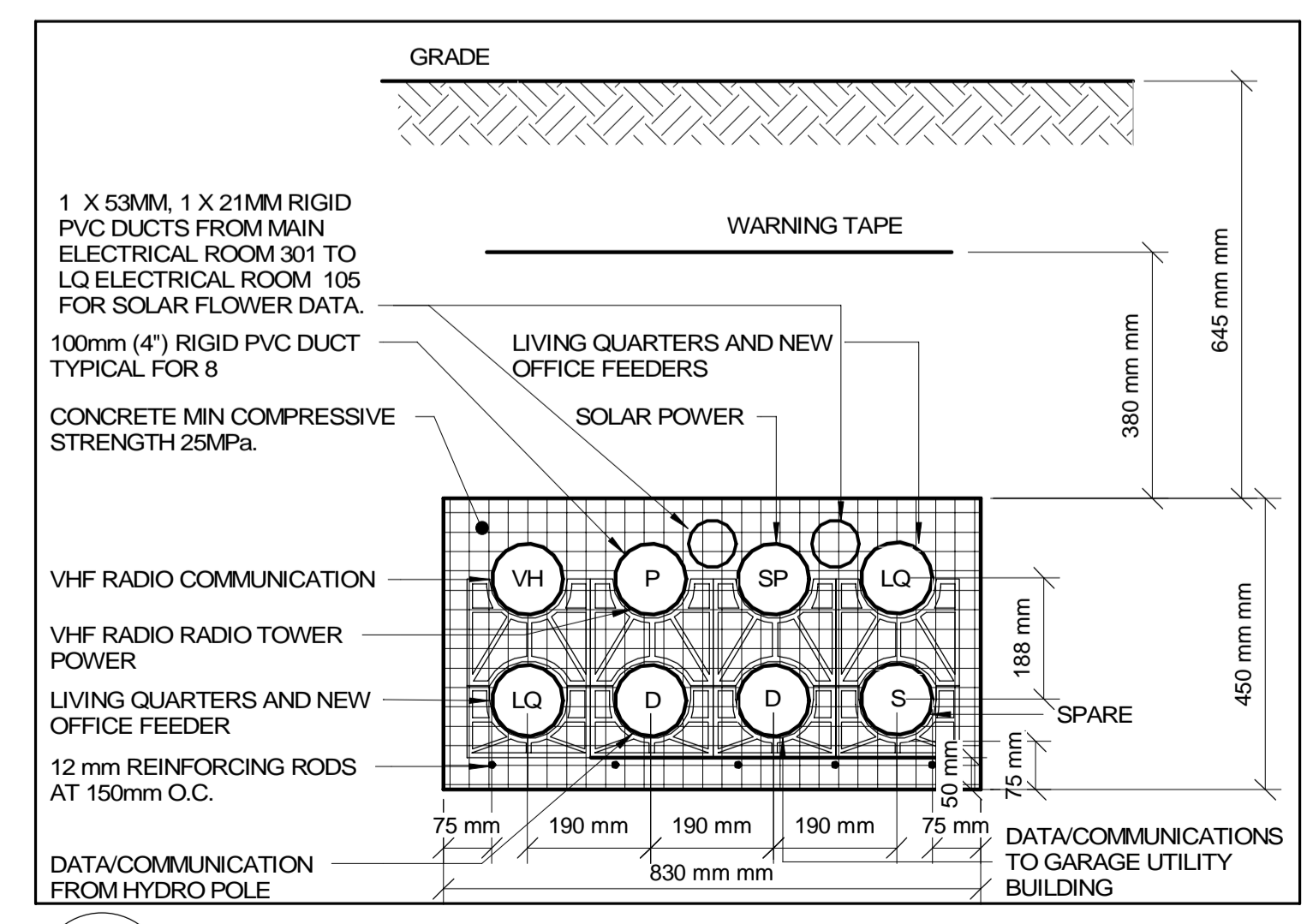
5 EXISTING PEDESTAL SHORE POWER TO REMAIN OPERATIONAL
E100 N.T.S.

Keynotes E100 (SHOWN AS ◊)

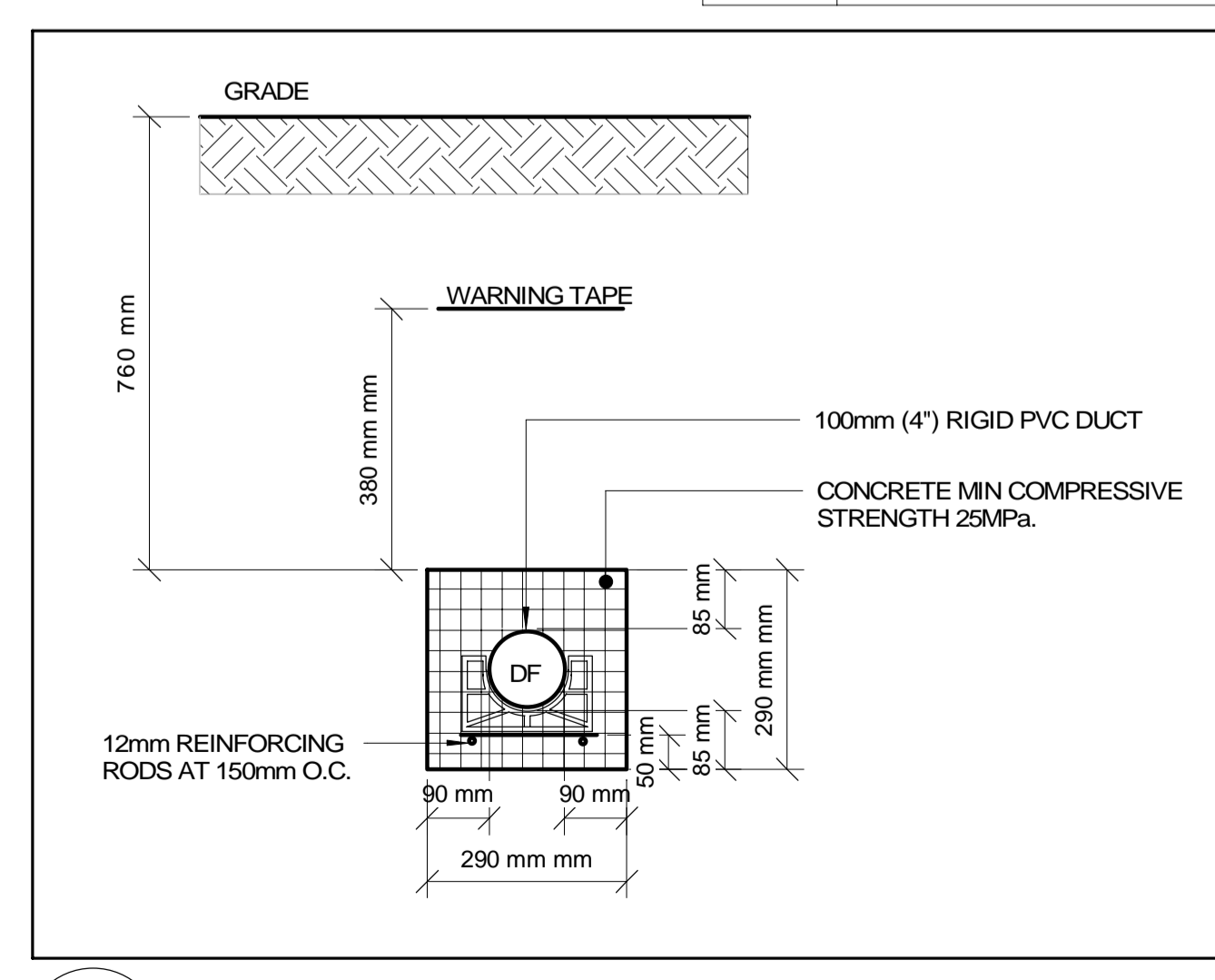
| Number | Description |
|--------|---|
| 1 | PROVIDE WEATHER HEAD ASSEMBLY APPROXIMATELY 600MM ABOVE THE LOWER PITCHED AREA OF THE ROOF AT GRID LINE "A". EXACT LOCATION AND MOUNTING ARRANGEMENTS MUST BE COORDINATED WITH THE ARCHITECT PRIOR TO ROUGHING IN. |
| 2 | EXISTING SITE SERVICE SHALL REMAIN INTACT AND OPERATIONAL WHICH COULD BE USED FOR TEMPORARY CONSTRUCTION AND STAFF TRAILER SERVICE. PROVIDE A TEMPORARY 200A-2P, 30 CIRCUIT SERVICE PANEL, TPA MOUNTED ON EXISTING SERVICE POLE IN A WEATHER PROOF ENCLOSURE. PROVIDE A 40A-2P BREAKER IN TPA TO FEED STAFF TRAILER. THIS TEMPORARY SERVICE SHALL REMAIN OPERATIONAL FOR THE ENTIRE DURATION OF THE NEW CONSTRUCTION UNTIL PERMANENT POWER IS READY FOR SWITCHOVER. |
| 3 | EXISTING BELL INCOMING LINE TO REMAIN. ALLOW FOR SPLICING AT THE NEW HYDRO POLE TO ALLOW FOR TERMINATION IN THE SSC ROOM. |
| 4 | ALLOW FOR THE FOLLOWING NEUTRAL SUPPORTED TRIPLEX SUSPENDED OVERHEAD CABLES COMPLETE WITH ALL REQUIRED SUSPENSION ACCESSORIES SIZED AS REQUIRED. REFER TO SINGLE LINE DIAGRAM FOR EACH FEEDER SIZE. |
| 5 | 51MM PVC DUCT FOR FUTURE TELECOM/SECURITY EQUIPMENT |
| 6 | EXISTING HIGH VOLTAGE PRIMARY FEEDERS BELOW GRADE SHALL REMAIN. ALLOW FOR RE TERMINATIONS REVIEW AT THE NEW HYDRO POLE. |
| 7 | DOCK CUTTER AND MISC. POWER IN 100MM PVC DUCTBANK |
| 8 | COMMON TRENCH FOR ALL FEEDERS IN DUCTBANK. |
| 9 | NEW SHORE POWER DISTRIBUTION REFER TO DETAIL 4/E901. RECONNECT EXISTING 100A-2P POWER RECEPTACLE AND POWER DISTRIBUTION IN READY ROOM HUT REFER TO PHOTOS ON DRAWING 6/E901. EXACT LOCATION TO BE DETERMINED ON SITE PRIOR TO ROUGHING IN. |
| 10 | LIQUID TIGHT FLEXIBLE CABLES TO DOCK PLUG-IN POINT COMPLETE WITH TRIP GUARD PROTECTION ALONG DOCK EDGE. EXACT LAYOUT ROUTE SHALL BE DETERMINED ON SITE PRIOR TO ROUGHING-IN. |
| 11 | NEW DOCK PLUG-IN DETAIL ON DRAWING 5/E-901. |
| 12 | NEW PADMOUNT TRANSFORMER REFER TO DETAILS ON DWG-E101 AND SINGLE LINE DIAGRAM FOR ADDITIONAL INFORMATION. THE TRANSFORMER IS SUPPLIED AND INSTALLED BY THE ELECTRICAL CONTRACTOR. THE ELECTRICAL CONTRACTOR SHALL LIASE/COORDINATE WITH THE LOCAL UTILITY COMPANY DURING INSTALLATION. |
| 14 | CONCRETE INCASED DUCTS FOR FEEDERS ALL BELOW GRADE. REFER TO DETAILS ON THIS DRAWING |
| 15 | EXISTING HYDRO POLE SHALL REMAIN OPERATIONAL DURING CONSTRUCTION. RE-CONFIGURE EXISTING HV PRIMARY FEEDER AND PREPARE FOR RELOCATE TO NEW POLE |

Keynotes E100 (SHOWN AS ◊)

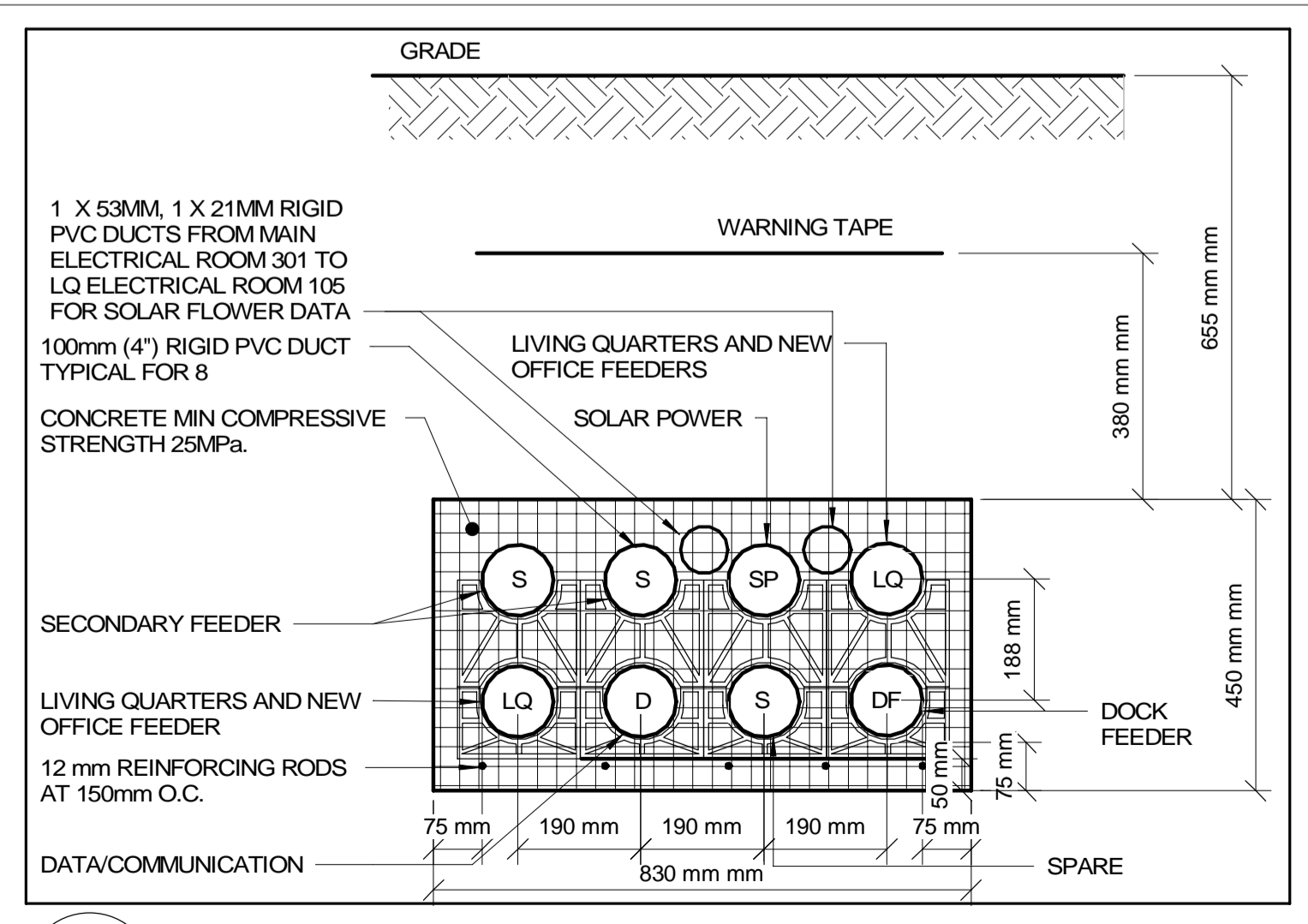
| Number | Description |
|--------|--|
| 16 | PROVIDE TWO 41mm RIGID PVC DUCT BELOW GRADE TO SSC ROOM FROM RADIO TOWER FOR RADIO COMMUNICATIONS AND POWER. |
| 17 | DISCONNECT AND REMOVE EXISTING HYDRO POLE COMPLETE WITH EXISTING OVER HEAD FEEDERS AND MAKE SAFE. PROVIDE NEW DUCT TO LQ SSC ROOM FOR NEW DATA COMMUNICATION. |
| 18 | NEW PUMP P-06. REFER TO MECHANICAL EQUIPMENT SCHEDULE FOR ADDITIONAL INFORMATION. |
| 19 | COORDINATE EXACT TERMINATION POINTS OF DUCTS INSIDE THE ELECTRICAL ROOM PRIOR TO CONCRETE FLOOR SLAB POUR. |
| 20 | REFER TO DRAWINGS E200 AND E202 FOR DUCTS TERMINATION LOCATIONS AND APPROXIMATE ROUTES BELOW SLAB. ALL DUCTS LAYOUT SHALL BE COORDINATED WITH OTHER SERVICES BELOW SLAB PRIOR TO ROUGHING-IN. |
| 21 | PROVIDE A 2057MM X 2057MM (RECTANGLE) X 300MM HIGH ABOVE GRADE AND FOOTING BELOW FROST COMPLETE WITH RE-INFORCING STEEL RODS AND CONCRETE TO FORM A COMPLETE MOUNTING BASE FOR THE SOLAR FLOWER SYSTEM. EXACT MOUNTING ARRANGEMENTS AND REQUIREMENTS. EXACT LOCATION TO BE CONFIRMED BY DEPARTMENTAL REPRESENTATIVE. SHALL BE VERIFIED WITH MANUFACTURER/SUPPLIER PRIOR TO ROUGHING-IN. REFER TO DETAIL 6/E-101 FOR ADDITIONAL DIMENSIONS. |
| 22 | PROVIDE 38KW PROPANE GAS POWERED GENERATOR COMPLETE WITH A 2250MM LONG X 1488MM WIDE X 300MM HIGH ABOVE GRADE CONCRETE PAD COMPLETE WITH RE-INFORCING STEEL RODS AS REQUIRED FOR THE GENERATOR MOUNTING BASE. THE OVERALL GENERATOR DIMENSIONS ARE : 1950MM LONG X 888MM WIDE; WEIGHT 560KG. EXACT MOUNTING ARRANGEMENTS AND REQUIREMENTS SHALL BE VERIFIED WITH MANUFACTURER/SUPPLIER PRIOR TO ROUGHING-IN. |
| 23 | PROVIDE A 1200MM X 3600MM X (RECTANGLE) X 300MM HIGH ABOVE GRADE CONCRETE PAD COMPLETE WITH REINFORCEMENT FOR PROPANE GAS TANK. NOTE THE RENTAL PROPANE TANK IS SUPPLIED BY DEPARTMENT REPRESENTATIVE. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR THE DELIVERY OF TANK AND ASSOCIATED PARTS. INSTALLATION OF THE TANK, SUPPLY LINE, AND CONNECTIONS TO THE GENERATOR, AND ALL COORDINATION WITH DEPARTMENTAL REPRESENTATIVE. REFER TO MECHANICAL DRAWING FOR REQUIREMENTS AND MINIMUM CLEARANCE OF THE TANK LOCATION. |
| 24 | EXISTING 100A-2P PEDESTAL MOUNT DOCK/SHORE POWER TO REMAIN AS INSTALLED. EXISTING SHORE POWER SHALL REMAIN OPERATIONAL AT ALL TIMES DURING CONSTRUCTION. ONCE PERMANENT POWER DISTRIBUTION IS CONNECTED AND OPERATIONAL EXTEND EXISTING FEEDERS TO LOCAL DISTRIBUTION AT READY ROOM AS INDICATED. REFER TO DETAIL 4/E901 FOR ADDITIONAL INFORMATION. |
| 25 | POWER DISTRIBUTION INSIDE READY ROOM HUT SHALL REMAIN AS INSTALLED. ALL POWER SHALL REMAIN OPERATIONAL AT ALL TIMES DURING CONSTRUCTION. ONCE PERMANENT POWER DISTRIBUTION IS CONNECTED AND OPERATIONAL EXTEND PANEL FEEDER TO NEW LOCAL SHORE POWER DISTRIBUTION. REFER TO PICTURES ON DRAWING 6/E901 FOR ADDITIONAL INFORMATION. |



2 LQ/OFFICE SERVICES
E100 N.T.S.



3 DOCK SHORE POWER FEEDERS
E100 N.T.S.



4 DUCTBANK IN COMMON TRENCH
E100 N.T.S.

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| 1 | ISSUED FOR TENDER | 2021-07-26 |

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project title
titre du projet
PORT WELLER SEARCH AND RESCUE STATION

ONTARIO DEPARTMENT OF FISHERIES AND OCEANS
SEARCH & RESCUE STATION ST. CATHARINES PARTIAL DEMOLITION, ADDITION AND RESTORATION

ST. CATHARINES ONTARIO

drawing title
titre du dessin
SITE PLAN

drawn by
dessiné par R.C.
designed by
conçu par A.O.
approved by
approuvé par D.S.

bid offre
KG project manager
administrateur de projets

project date
date du projet
2021-07-26

project no.
no. du projet
R.079827.001

drawing no.
dessiné no.
E100

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PORT WELLER SEARCH AND RESCUE STATION

ONTARIO DEPARTMENT OF FISHERIES AND OCEANS
SEARCH & RESCUE STATION ST. CATHARINES PARTIAL DEMOLITION, ADDITION AND RESTORATION
ST. CATHARINES ONTARIO

drawing title
titre du dessin
LIVING QUARTERS & OFFICE - POWER LAYOUT

drawn by
dessiné par
R.C.

designed by
conçu par
A.O.

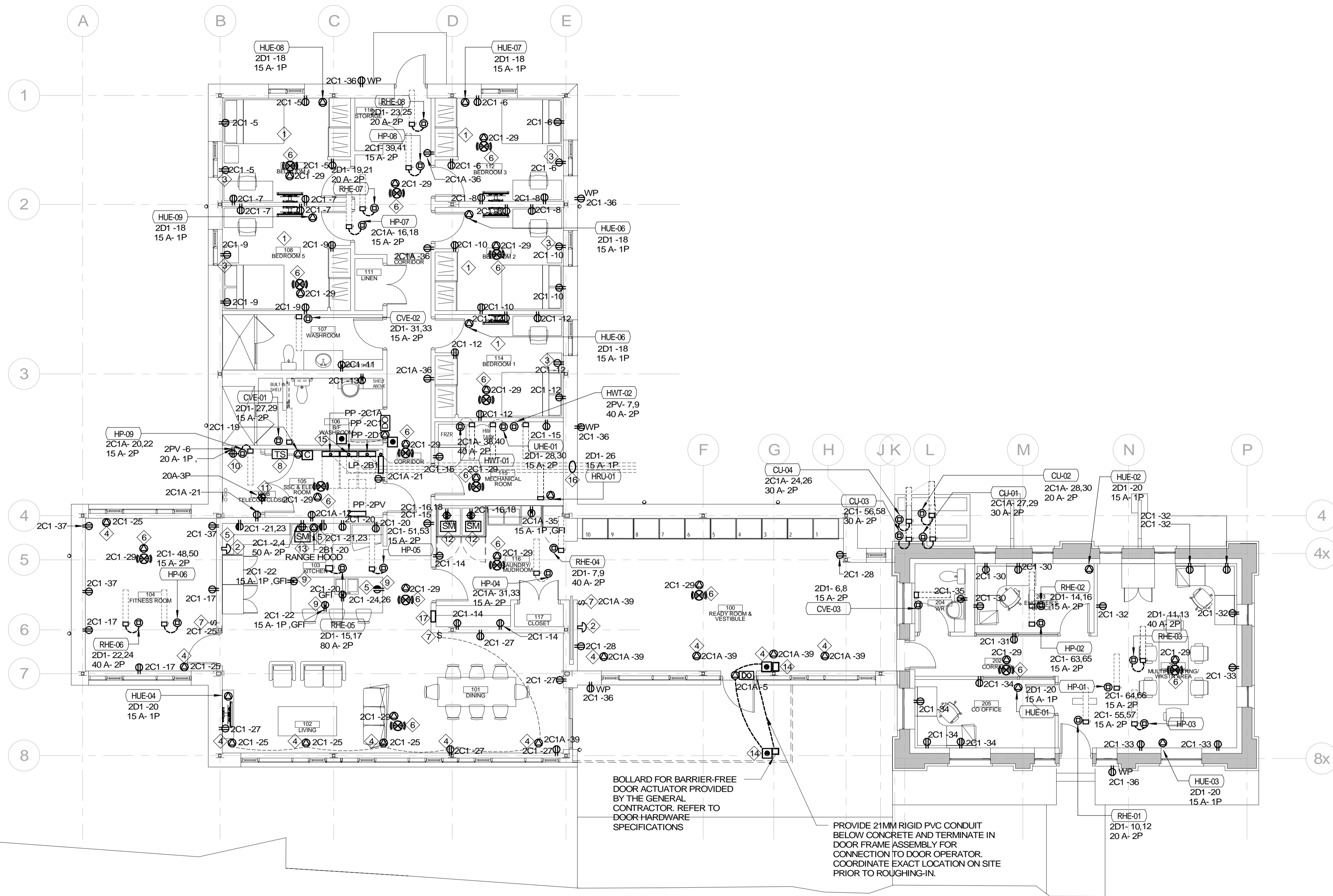
approved by
approuvé par
D.S.

bid offer
offre
KG

project date
date du projet
2021-07-26

project no.
no. du projet
R.079827.001

drawing no.
dessiné no.
E200



1 LIVING QUARTERS/OFFICE POWER LAYOUT
E200 1:75

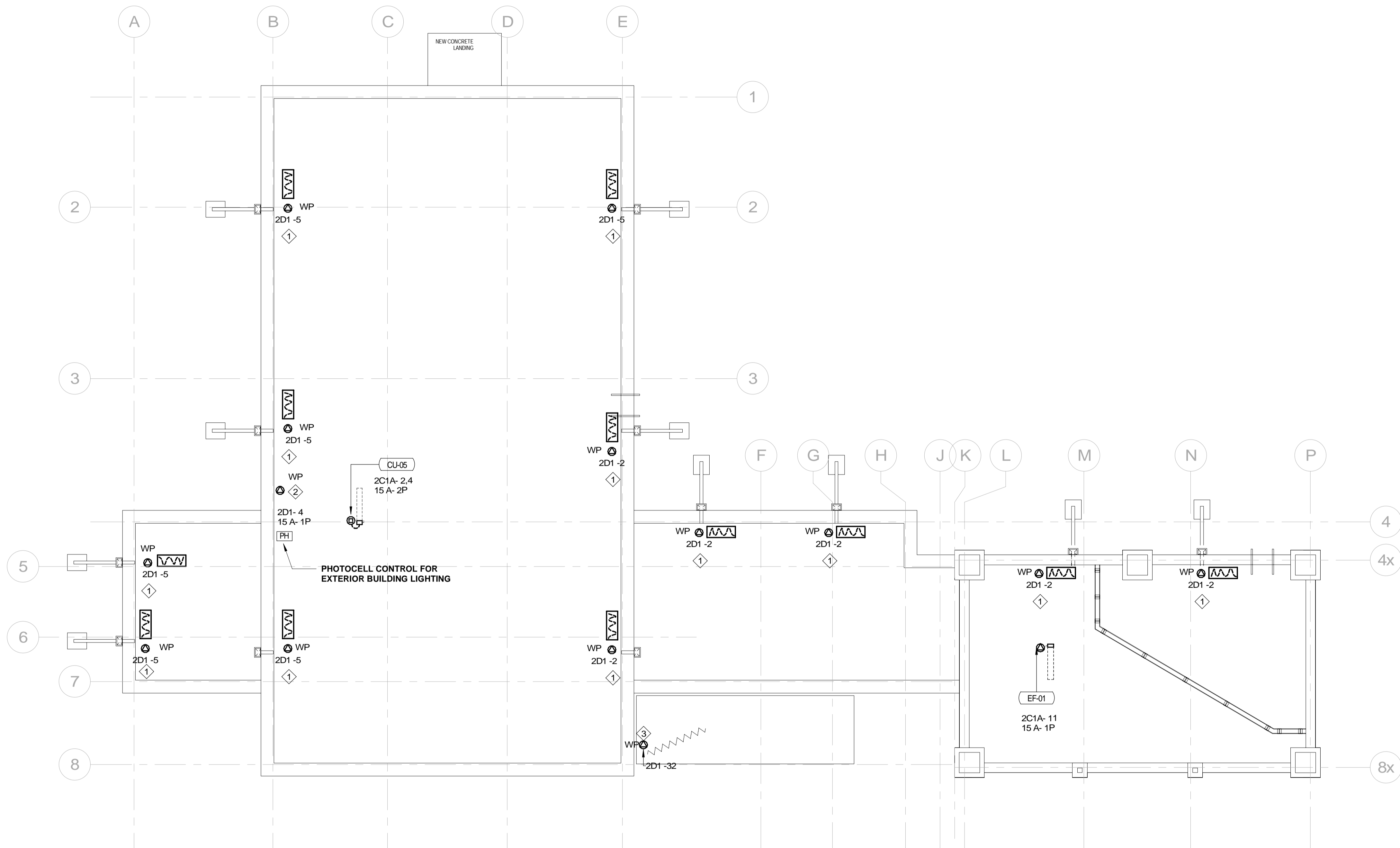
- GENERAL NOTES**
- REFER TO MECHANICAL DRAWINGS FOR EXACT LOCATIONS OF MECHANICAL EQUIPMENT.
 - EXACT LOCATION AND MOUNTING ARRANGEMENTS OF EQUIPMENT SHALL BE COORDINATED ON SITE.
 - SMOKE ALARMS SHALL BE INTERCONNECTED SUCH THAT THE ACTUATION OF ONE SMOKE ALARM WILL CAUSE ALL SMOKE ALARMS TO SOUND.

Keynotes E200 (SHOWN AS ◊)

| Number | Description |
|--------|--|
| 1 | PROVIDE ARC-FAULT CIRCUIT INTERRUPTER BREAKERS IN THE PANELBOARD FOR CIRCUITS SERVING THIS ROOM. REFER TO PANEL SCHEDULES. |
| 2 | EMERGENCY RED MUSHROOM TYPE SHUTDOWN PUSHBUTTON WITH RESET KEY SWITCH TO SHUT DOWN ALL THE KITCHEN EQUIPMENT. EXACT LOCATION AND MOUNTING ARRANGEMENTS TO BE DETERMINED ON SITE PRIOR TO ROUGHING-IN |
| 3 | SWITCHED OUTLET. |
| 4 | POWER FOR CURTAIN WALL MOTORIZED BLINDS. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATIONS OF WINDOWS. ALLOW FOR GROUP CONTROLLING CONNECTIONS. EXACT CONTROL AND WIRING ARRANGEMENTS SHALL BE DETERMINED ON SITE PRIOR TO ROUGHING-IN. |
| 5 | CIRCUIT SERVING SPLIT-WIRED RECEPTACLE SHALL BE PROVIDED WITH GFI BREAKER. PROVIDE PILOT LIGHT AND SWITCH CONTROL TO ONE OUTLET. |
| 6 | PROVIDE LINE VOLTAGE SMOKE ALARM DEVICES AS INDICATED. DEVICES SHALL BE COMPLETE WITH LOCAL SOUNDERS, STROBES, AND ONBOARD 10-YEAR LITHIUM BATTERY BACKUP AND SHALL BE CONNECTED SUCH THAT UPON ACTIVATION OF ANY DEVICE WITHIN THE LIVING QUARTERS, ALL DEVICES WILL SOUND AT THE SAME TIME, THUS INDICATING SMOKE ALARM CONDITION. |
| 7 | PROVIDE LOCAL GROUP CONTROL FOR MOTORIZED BLINDS. CONTROL SWITCH SHALL BE BASED ON UP/DOWN CONTROL ONLY. EXACT LOCATION OF CONTROL SWITCHES SHALL BE COORDINATED ON SITE PRIOR TO ROUGH-IN. |
| 8 | TIMER; PHOTOCELL AND CONTACTOR CONTROL FOR PERIMETER OUTSIDE LIGHTING. EXACT MOUNTING HEIGHT AND LOCATION OF PHOTOCELL SHALL BE DETERMINED ON SITE WITH DEPARTMENTAL REPRESENTATIVE PRIOR TO ROUGH-IN. |
| 9 | RECEPTACLES MOUNTED IN COUNTER MILLWORK EXACT MOUNTING ARRANGEMENTS SHALL BE CO-ORDINATED ON SITE PRIOR TO ROUGHING-IN. |
| 10 | RECEPTACLE FOR DATA/COMMUNICATION SYSTEM PORTABLE UPS EXACT LOCATION SHALL BE COORDINATED ON SITE PRIOR TO ROUGHING-IN |
| 11 | RECEPTACLE MOUNTED ON EQUIPMENT RACK ABOVE COMPLETE WITH CONNECTION VIA PORTABLE UPS EXACT LOCATION AND MOUNTING ARRANGEMENTS SHALL BE DETERMINED ON SITE PRIOR TO ROUGHING-IN. |
| 12 | 30 AMP PROGRAMMABLE PRIORITY LOAD MANAGEMENT "SM" UNIT FOR CONNECTION TO DRYERS TO DISABLE LOADS WHILE GENERATOR IS IN BACK UP POWER MODE |
| 13 | 40 AMP PROGRAMMABLE PRIORITY LOAD MANAGEMENT "SM" UNIT FOR CONNECTION TO KITCHEN STOVE TO DISABLE LOADS WHILE GENERATOR IS IN BACK UP POWER MODE |
| 14 | PUSH BUTTON FOR DOOR OPERATOR AT BOLLARDS. EXACT LOCATION TO BE DETERMINED BY DEPARTMENTAL REPRESENTATIVE AND LOCATED ON SITE |
| 15 | TERMINATE TYPICAL FEEDERS AND CONDUITS AS REQUIRED, PROVIDE TRANSMISSION FROM PVC TO RIGID EMT SIZED AS REQUIRED. |
| 16 | APPROXIMATE ROUTE OF POWER DUCTS BELOW FLOOR SLAB. COORDINATE EXACT ROUTE WITH ALL SERVICES PRIOR TO ROUGHING-IN. |
| 17 | RECESSED GENERATOR REMOTE ANNUNCIATOR PANEL. COORDINATE EXACT LOCATION AND MOUNTING ARRANGEMENTS ON SITE PRIOR TO ROUGHING IN. |

BOLLARD FOR BARRIER-FREE DOOR ACTUATOR PROVIDED BY THE GENERAL CONTRACTOR. REFER TO DOOR HARDWARE SPECIFICATIONS

PROVIDE 21MM RIGID PVC CONDUIT BELOW CONCRETE AND TERMINATE IN DOOR FRAME ASSEMBLY FOR CONNECTION TO DOOR OPERATOR. COORDINATE EXACT LOCATION ON SITE PRIOR TO ROUGHING-IN.



| E201 Keynotes (SHOWN AS ◊) | |
|----------------------------|--|
| Number | Description |
| 1 | ROOF SCUPPER AREA SNOW MELTING CABLE SYSTEM COMPLETE WITH MINUS TWO DEGREES CELCUS SNOW SENSOR; THERMOSTAT CONTROLLER AND CONTROL UNIT TO SWITCH SYSTEM ON EXACT LOCATION AND MOUNTING ARRANGEMENT OF SNOW SENSOR SHALL BE DETERMINED ON SITE PRIOR TO ROUGHING-IN. THE HEATING CABLES SHALL BE MINERAL INSULATED COMPLETE WITH PVS JACKET SUITABLE FOR UV PROTECTION. |
| 2 | SCUPPER AREA 120V-1P SNOW MELTING CONTROLLER COMPLETE WITH 30mA GFI PROTECTION HEATER TIMER AND SYSTEM TEST. |
| 3 | CANOPY ROOF DRAIN AND DOWN SPOUT HEAT TRACING CABLE. PROVIDE SELF REGULATED HEAT TRACING CABLE COMPLETE WITH ALL REQUIRED CONTROL KIT AND ACCESSORIES. EXACT CABLE LENGTH AND INSTALLATION METHODS SHALL BE DETERMINED ON SITE PRIOR TO ROUGHING-IN. |

1 LIVING QUARTERS ROOF LAYOUT
E201 1:75

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ONTARIO DEPARTMENT OF FISHERIES AND OCEANS
SEARCH & RESCUE STATION ST. CATHARINES PARTIAL DEMOLITION, ADDITION AND RESTORATION
ST. CATHARINES ONTARIO

drawing title: ROOF - POWER LAYOUT

drawn by: Author

designed by: Checker

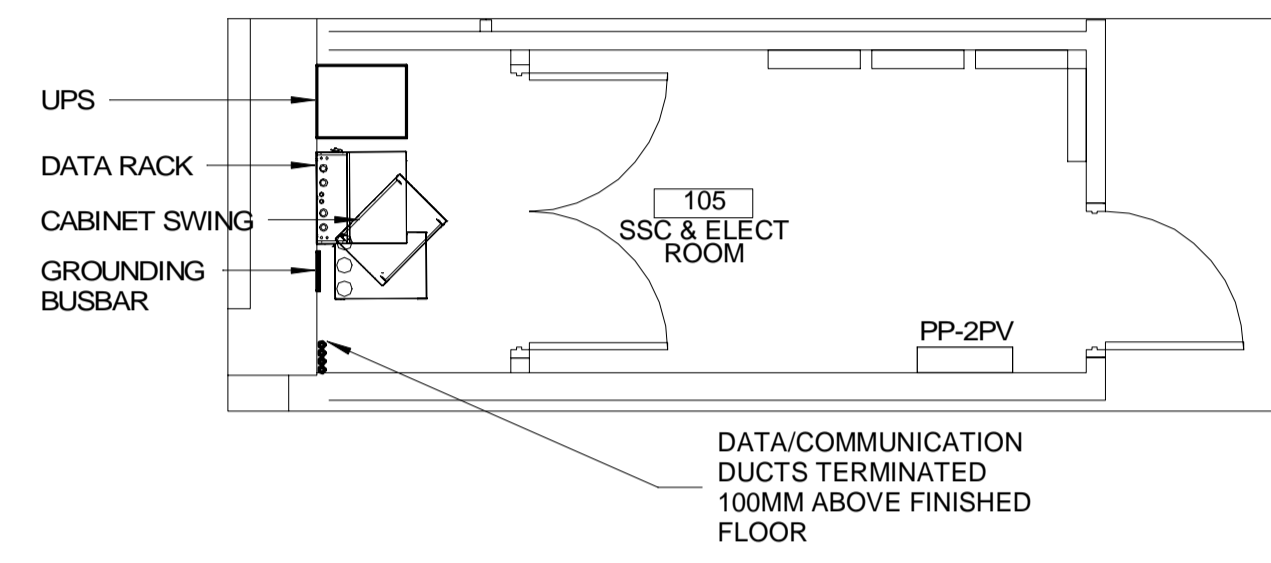
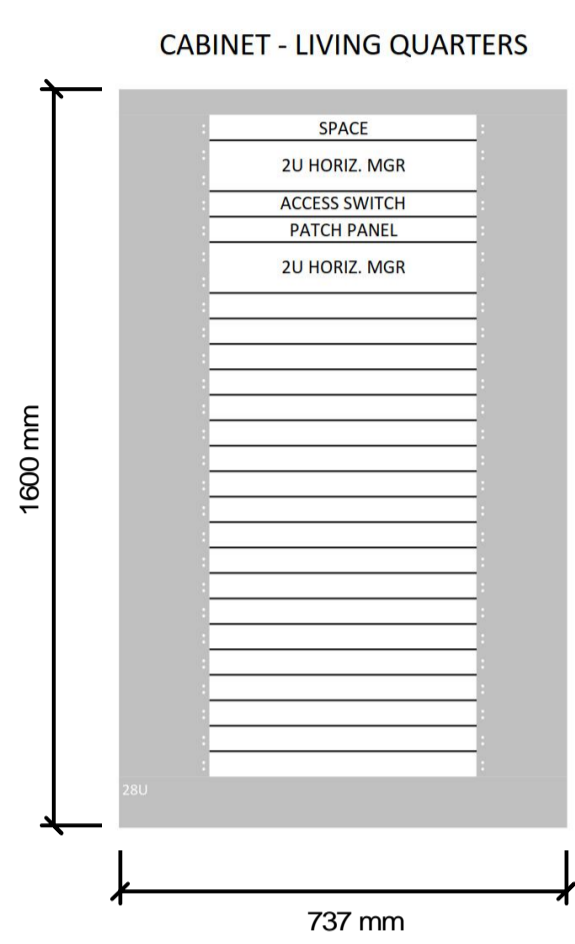
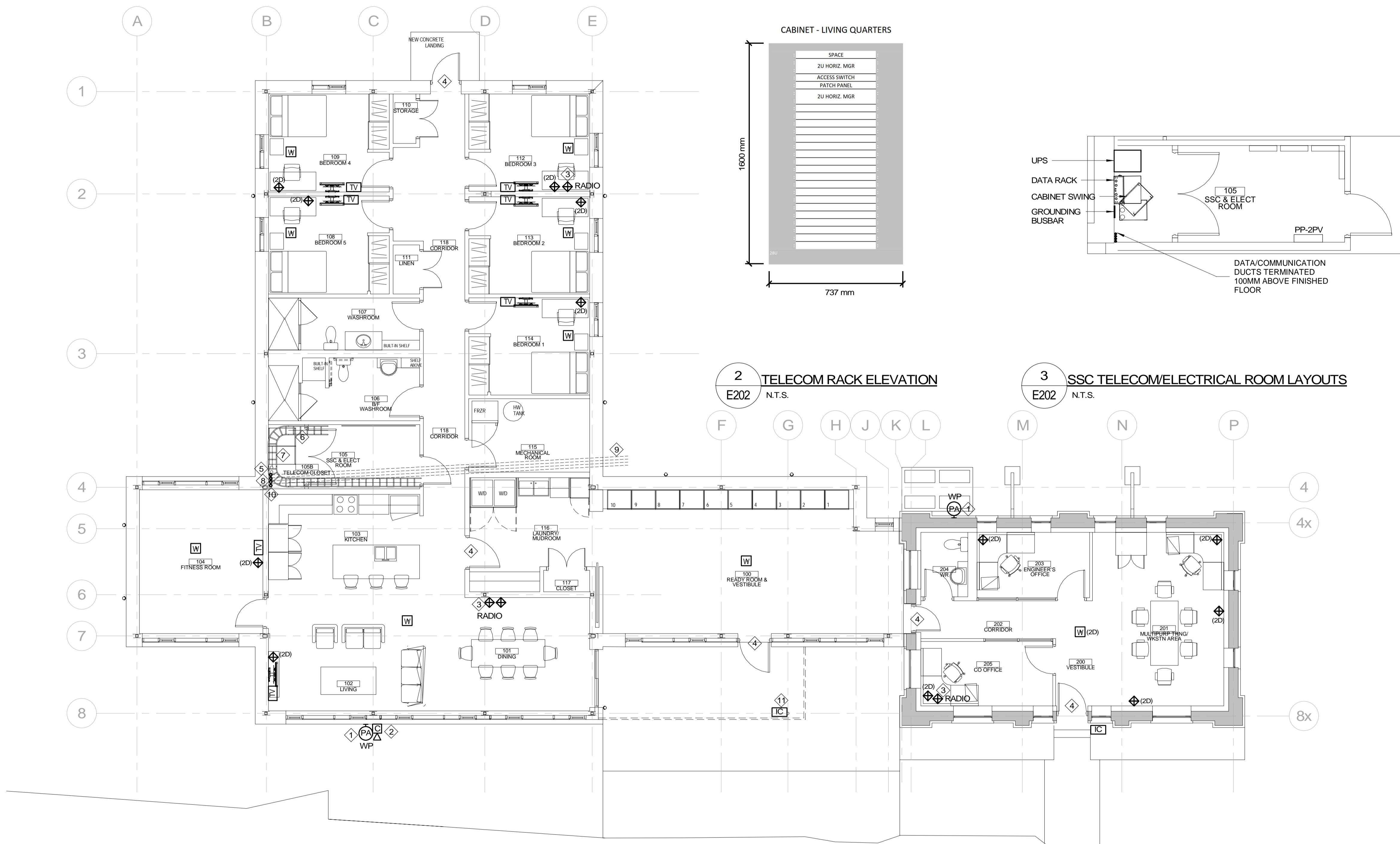
approved by: Approver

bid offer: KG project manager: administrateur de projets

project date: 2021-07-26

project no.: R.079827.001

drawing no.: E201



2 TELECOM RACK ELEVATION
E202 N.T.S.

3 SSC TELECOM/ELECTRICAL ROOM LAYOUTS
E202 N.T.S.

1 LIVING QUARTERS/OFFICE SYSTEMS LAYOUT
E202 1:75

GENERAL NOTES

1. ALL PENETRATIONS AT FIRE SEPARATIONS BY PIPES AND CABLES SHALL BE PROPERLY FIRESTOPPED.

| Keynotes E202 (SHOWN AS ◇) | |
|----------------------------|--|
| Number | Description |
| 1 | PROVIDE 53mm CONDUIT FROM EXTERIOR SPEAKER LOCATION TO SSC ROOM. |
| 2 | PROVIDE 53mm CONDUIT FROM EXTERIOR CAMERA LOCATION TO SSC ROOM. |
| 3 | PROVIDE 53mm CONDUIT FROM RADIO LOCATION TO SSC ROOM. |
| 4 | PROVIDE 27mm CONDUIT FROM DOOR LOCATION TO SSC ROOM. |
| 5 | TELECOM GROUNDING BUSBAR. |
| 6 | TELECOM UPS. |
| 7 | CABLE TRAY ABOVE. |
| 8 | VERTICAL CABLE TRAY MOUNTED ON BACK WALL. |
| 9 | APPROXIMATE ROUTE OF DATA COMMUNICATION DUCTS BELOW SLAB. COORDINATE EXACT ROUTE ON SITE WITH ALL SERVICES PRIOR TO ROUGHING-IN. |
| 10 | TERMINATE DATA/COMMUNICATION DUCTS APPROXIMATELY 100mm ABOVE FINISHED FLOOR COMPLETE WITH PROTECTION FROM DEBRIS AND WATER. |
| 11 | MOUNT INTERCOM IN BOLLARD. EXACT MOUNTING ARRANGEMENTS SHALL BE DETERMINED PRIOR TO FABRICATING THE BOLLARD. |

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titre du projet
PORT WELLER SEARCH AND RESCUE STATION

ONTARIO DEPARTMENT OF FISHERIES AND OCEANS
SEARCH & RESCUE STATION ST. CATHARINES PARTIAL DEMOLITION, ADDITION AND RESTORATION
ST. CATHARINES ONTARIO

drawing title
titre du dessin
LIVING QUARTERS & OFFICE - SYSTEMS LAYOUT

drawn by
dessiné par
R.C.

designed by
conçu par
A.O.

approved by
approuvé par
D.S.

bid offer
offre
KG

project date
date du projet
2021-07-26

project no.
no. du projet
R.079827.001

drawing no.
dessiné no.
E202



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PROJECT TITLE
PORT WELLER SEARCH AND RESCUE STATION

ONTARIO DEPARTMENT OF FISHERIES AND OCEANS
SEARCH & RESCUE STATION ST. CATHARINES PARTIAL DEMOLITION, ADDITION AND RESTORATION
ST. CATHARINES ONTARIO

DRAWING TITLE
LIVING QUARTERS & OFFICE - LIGHTING LAYOUT

drawn by
dessiné par
R.C.

designed by
conçu par
A.O.

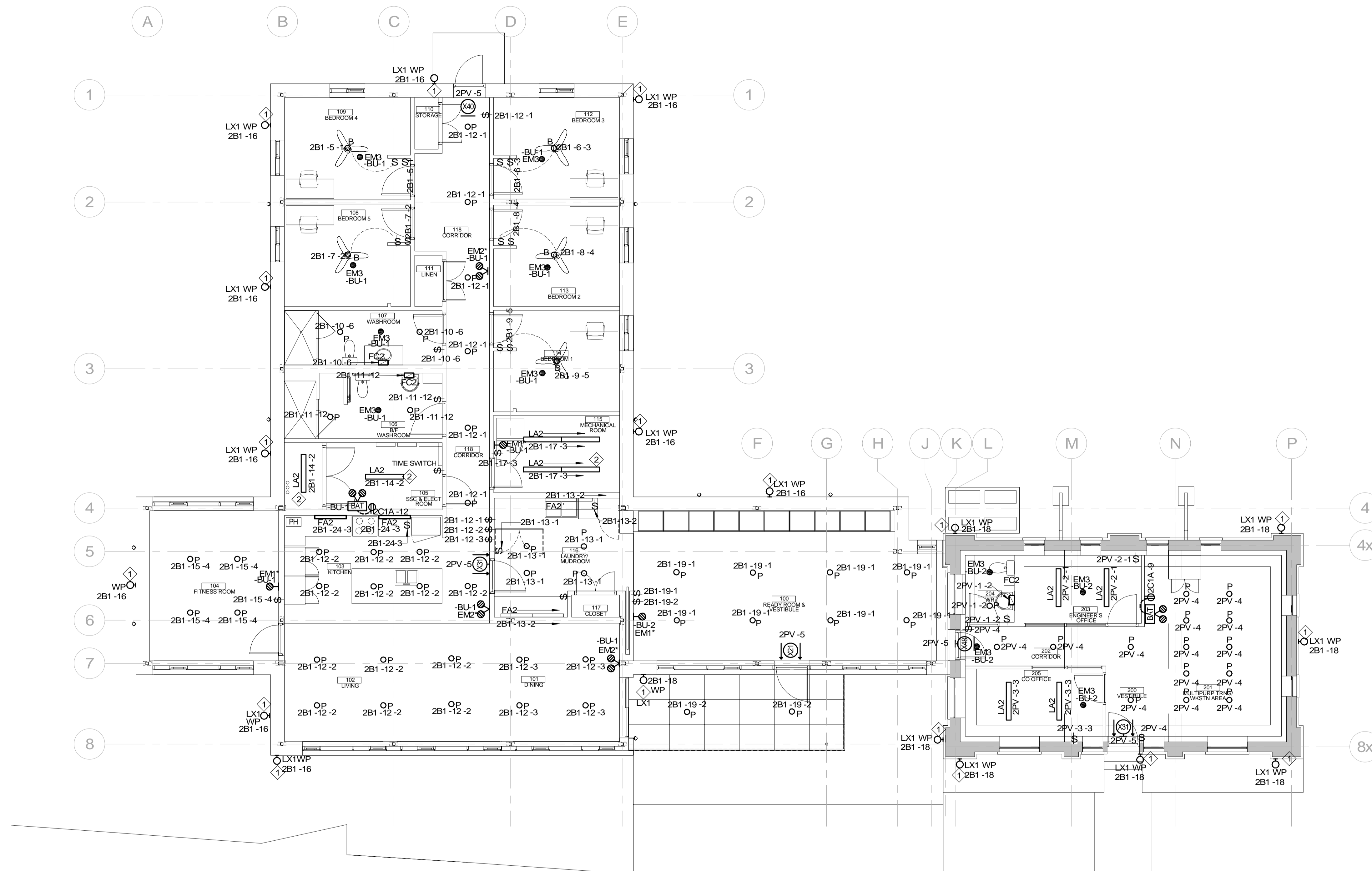
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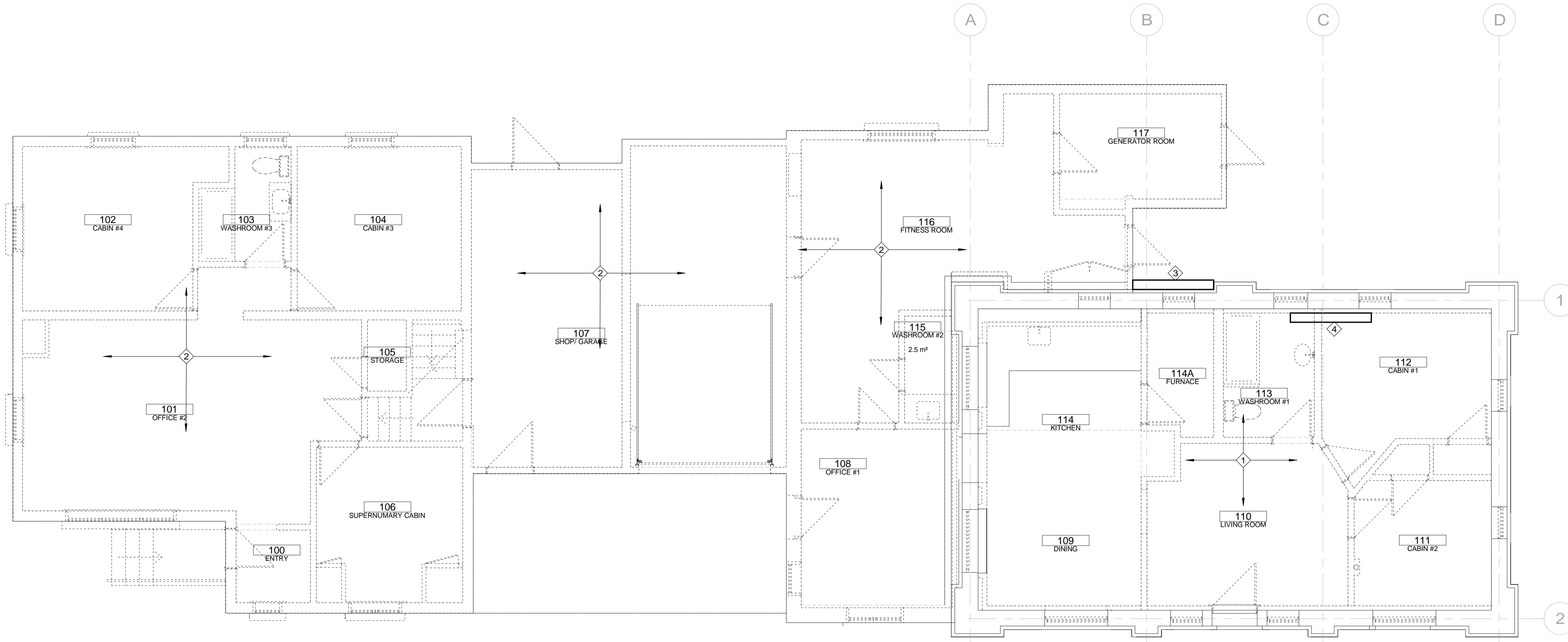
drawing no.
dessiné no.
E203



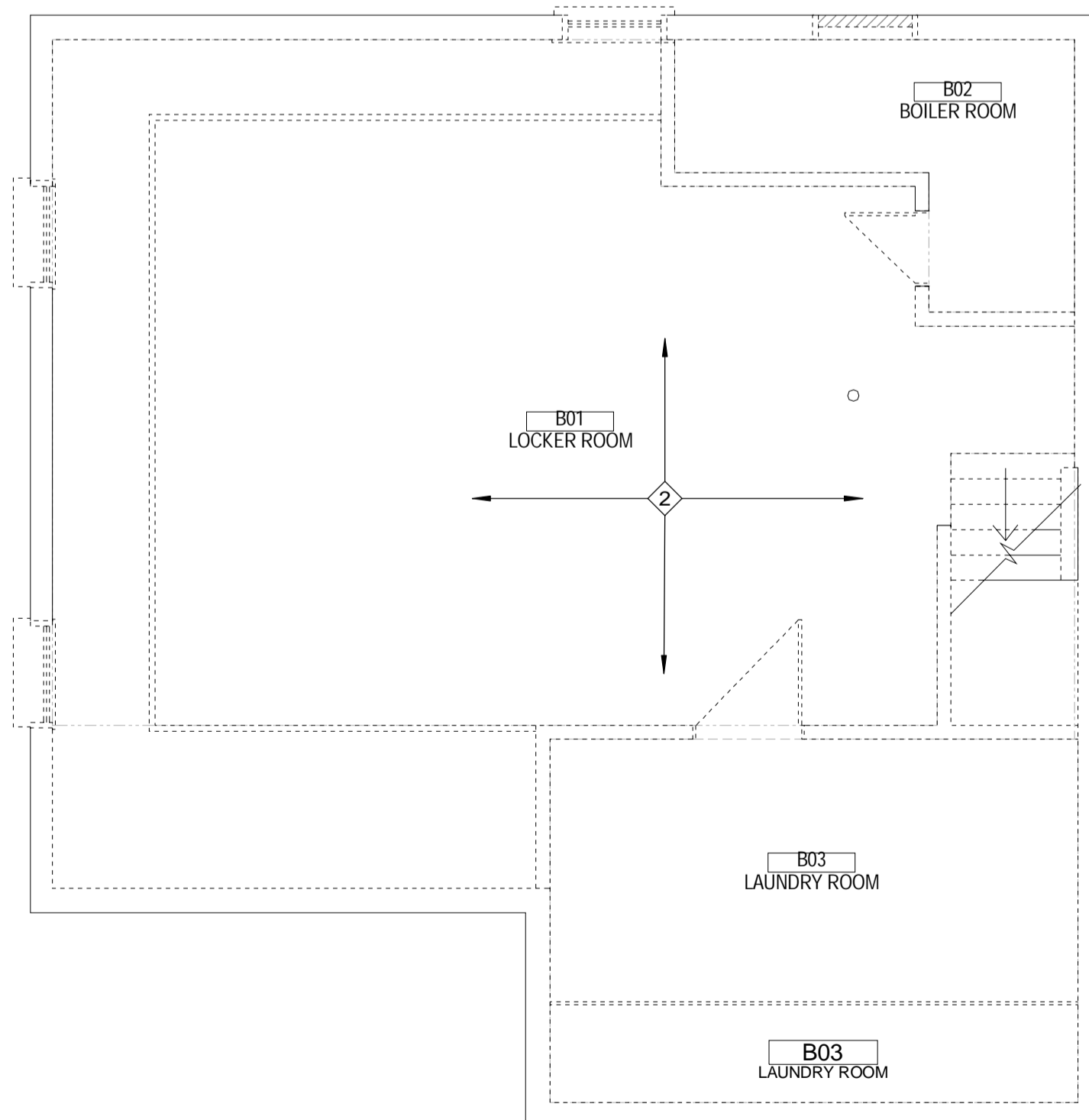
Keynotes E203 (SHOWN AS ◊)

| Number | Description |
|--------|---|
| 1 | EXTERIOR LIGHTS CONTROLLED BY TIME SWITCH AND CONTACTOR LOCATED IN SSC & ELECT ROOM 105. |
| 2 | FINAL LIGHTING LAYOUTS IN ELECTRICAL AND MECHANICAL ROOMS SHALL BE DETERMINED ON SITE AFTER A FULL COORDINATION WITH ALL TRADES ARE COMPLETE. |

1 LIVING QUARTERS/OFFICE LIGHTING LAYOUT
E203 1:75



1 EXISTING DEMOLITION FLOOR PLAN
E301D NTS



2 EXISTING BASEMENT DEMOLITION FLOOR PLAN
E301D NTS

| E301D Keynotes (SHOWN AS ◊) | |
|-----------------------------|--|
| Number | Description |
| 1 | ALLOW FOR ALL ELECTRICAL SERVICES WITHIN THE BUILDING TO BE DISCONNECTED, MAKE SAFE AND PREPARE FOR COMPLETE INTERIOR PARTITIONS TO BE GUTTED. |
| 2 | ALLOW FOR DISCONNECTION AND REMOVAL OF ALL ELECTRICAL SERVICES IN THESE AREAS AND PREPARE FOR COMPLETE DEMOLITION. |
| 3 | EXISTING MAIN ELECTRICAL SERVICES TO BE DISCONNECTED AND REMOVED, PREPARE FOR TEMPORARY RELOCATION TO SERVE AS CONSTRUCTION POWER SERVICES. |
| 4 | DISCONNECT AND REMOVE EXISTING SCUPPER AREA SNOW MELTING SYSTEM AT ROOF IN ITS ENTIRETY AND MAKE SAFE. |

| GENERAL NOTES | |
|---------------|--|
| 1. | ALLOW FOR DISCONNECTING AND REMOVE EXISTING DISTRIBUTION FEEDER TO HOOP HOUSE AND MAKE SAFE FOR BUILDING DEMOLITION. |
| 2. | ALLOW FOR DISCONNECTING AND REMOVE EXISTING DISTRIBUTION FEEDER TO THE EXISTING ENGINEERING OFFICE AND MAKE SAFE. |



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project title / titre du projet: **PORT WELLER SEARCH AND RESCUE STATION**

ONTARIO DEPARTMENT OF FISHERIES AND OCEANS
SEARCH & RESCUE STATION ST. CATHARINES PARTIAL DEMOLITION, ADDITION AND RESTORATION
ST. CATHARINES ONTARIO

drawing title / titre du dessin: **EXISTING BUILDINGS DEMOLITION POWER LAYOUT**

drawn by / dessiné par: R.E.

designed by / conçu par: A.O.

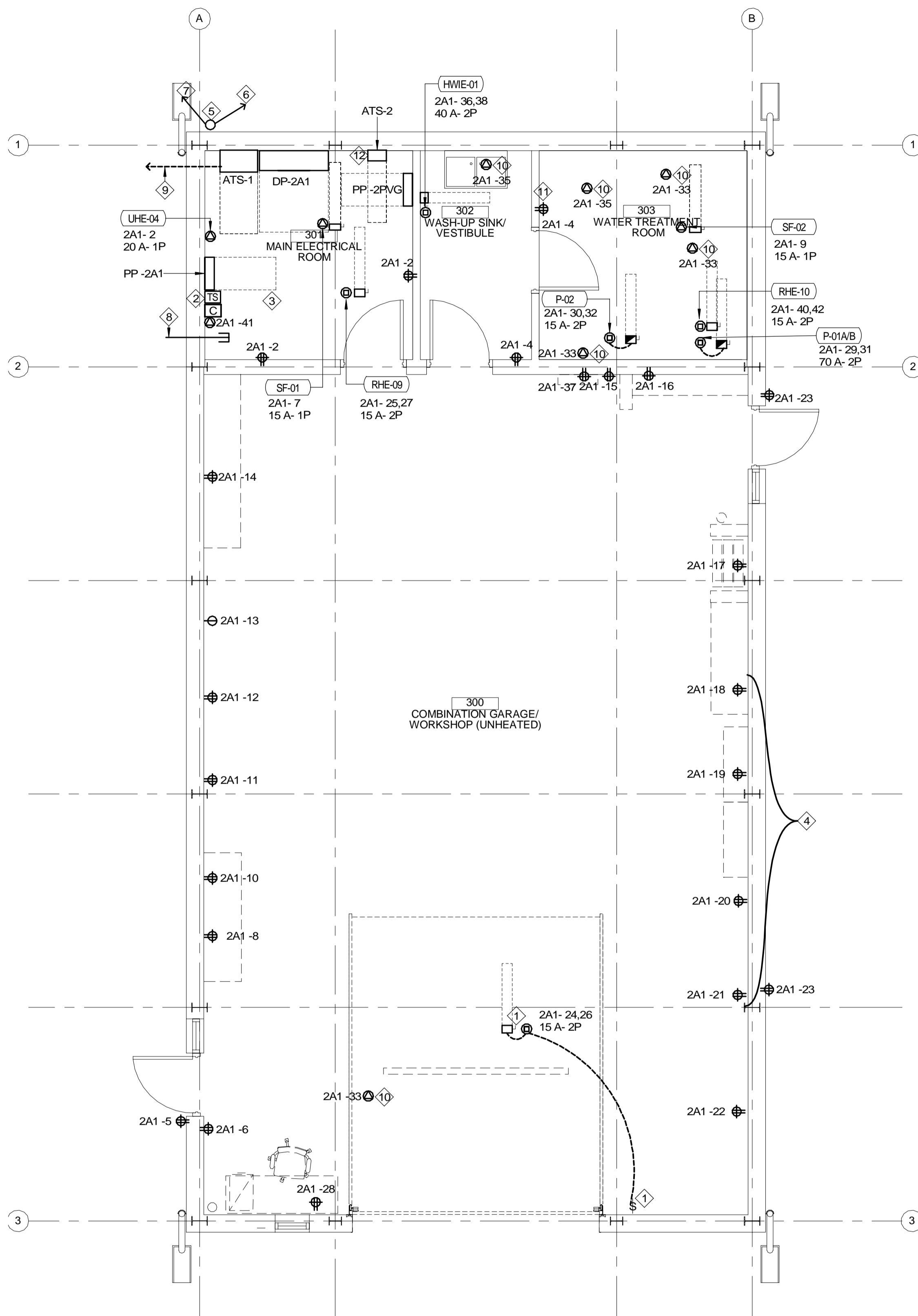
approved by / approuvé par: D.S.

bid / offre: KG project manager / administrateur de projets

project date / date du projet: 2021-07-26

project no. / no. du projet: R.079827.001

drawing no. / dessiné no.: E301D



1 GARAGE POWER LAYOUT
E400 1:50

| MECHANICAL LOOSE EQUIPMENT SCHEDULE | | | | | | | | | | | |
|-------------------------------------|------------------------|---------|-----------------|-------|-----------|-----------|----------------|----------------------------|------------|---------|--|
| EQUIPMENT DESIGNATION | DESCRIPTION | VOLTAGE | NUMBER OF POLES | MOTOR | | | CIRCUIT NUMBER | FEEDER TYPE & CONDUIT SIZE | PROTECTION | REMARKS | |
| | | | | FLA | KVA | HP | | | | | |
| CU-01 | CONDENSING UNIT | 240 V | 2 | 23 A | 5.58 kVA | 2C1A | 27,29 | 2#10 RW90CU-1000 in 21 mmC | 30 A | No | |
| CU-02 | CONDENSING UNIT | 240 V | 2 | 13 A | 3.17 kVA | 2C1A | 28,30 | 2#12 RW90CU-1000 in 21 mmC | 20 A | No | |
| CU-03 | CONDENSING UNIT | 240 V | 2 | 23 A | 5.58 kVA | 2C1 | 56,58 | 2#10 RW90CU-1000 in 21 mmC | 30 A | No | |
| CU-04 | CONDENSING UNIT | 240 V | 2 | 23 A | 5.58 kVA | 2C1A | 24,26 | 2#10 RW90CU-1000 in 21 mmC | 30 A | No | |
| CU-05 | CONDENSING UNIT | 240 V | 2 | 10 A | 2.34 kVA | 2C1A | 2,4 | 2#12 RW90CU-1000 in 21 mmC | 15 A | No | |
| CVE-01 | ELECTRIC CONVECTOR | 240 V | 2 | 2 A | 0.40 kVA | 2D1 | 27,29 | 2#12 RW90CU-1000 in 21 mmC | 15 A | No | |
| CVE-02 | ELECTRIC CONVECTOR | 240 V | 2 | 2 A | 0.40 kVA | 2D1 | 31,33 | 2#12 RW90CU-1000 in 21 mmC | 15 A | No | |
| CVE-03 | ELECTRIC CONVECTOR | 240 V | 2 | 2 A | 0.40 kVA | 2D1 | 6,8 | 2#12 RW90CU-1000 in 21 mmC | 15 A | No | |
| EF-01 | EXHAUST FAN | 120 V | 1 | 4 A | 0.50 kVA | 2C1A | 11 | 2#12 RW90CU-1000 in 21 mmC | 15 A | No | |
| HP-01 | HEAT PUMP | 240 V | 2 | 1 A | 0.30 kVA | 2C1 | 64,66 | 2#12 RW90CU-1000 in 21 mmC | 15 A | No | |
| HP-02 | HEAT PUMP | 240 V | 2 | 1 A | 0.15 kVA | 2C1 | 63,65 | 2#12 RW90CU-1000 in 21 mmC | 15 A | No | |
| HP-03 | HEAT PUMP | 240 V | 2 | 2 A | 0.55 kVA | 2C1 | 55,57 | 2#12 RW90CU-1000 in 21 mmC | 15 A | No | |
| HP-04 | HEAT PUMP | 240 V | 2 | 2 A | 0.55 kVA | 2C1A | 31,33 | 2#12 RW90CU-1000 in 21 mmC | 15 A | No | |
| HP-05 | HEAT PUMP | 240 V | 2 | 3 A | 0.65 kVA | 2C1 | 51,53 | 2#12 RW90CU-1000 in 21 mmC | 15 A | No | |
| HP-06 | HEAT PUMP | 240 V | 2 | 2 A | 0.55 kVA | 2C1 | 48,50 | 2#12 RW90CU-1000 in 21 mmC | 15 A | No | |
| HP-07 | HEAT PUMP | 240 V | 2 | 1 A | 0.30 kVA | 2C1A | 16,18 | 2#12 RW90CU-1000 in 21 mmC | 15 A | No | |
| HP-08 | HEAT PUMP | 240 V | 2 | 1 A | 0.35 kVA | 2C1 | 39,41 | 2#12 RW90CU-1000 in 21 mmC | 15 A | No | |
| HP-09 | HEAT PUMP | 240 V | 2 | 10 A | 2.50 kVA | 2C1A | 20,22 | 2#12 RW90CU-1000 in 21 mmC | 15 A | No | |
| HRU-01 | HEAT RECOVERY UNIT | 120 V | 1 | 12 A | 1.40 kVA | 2D1 | 26 | 2#12 RW90CU-1000 in 21 mmC | 15 A | No | |
| HUE-01 | ELECTRIC HUMIDIFIER | 120 V | 1 | 4 A | 0.50 kVA | 2D1 | 20 | 2#8 RW90CU-1000 in 21 mmC | 15 A | No | |
| HUE-02 | ELECTRIC HUMIDIFIER | 120 V | 1 | 4 A | 0.50 kVA | 2D1 | 20 | 2#8 RW90CU-1000 in 21 mmC | 15 A | No | |
| HUE-03 | ELECTRIC HUMIDIFIER | 120 V | 1 | 4 A | 0.50 kVA | 2D1 | 20 | 2#8 RW90CU-1000 in 21 mmC | 15 A | No | |
| HUE-04 | ELECTRIC HUMIDIFIER | 120 V | 1 | 4 A | 0.50 kVA | 2D1 | 20 | 2#8 RW90CU-1000 in 21 mmC | 15 A | No | |
| HUE-06 | ELECTRIC HUMIDIFIER | 120 V | 1 | 4 A | 0.50 kVA | 2D1 | 18 | 2#10 RW90CU-1000 in 21 mmC | 15 A | No | |
| HUE-06 | ELECTRIC HUMIDIFIER | 120 V | 1 | 4 A | 0.50 kVA | 2D1 | 18 | 2#10 RW90CU-1000 in 21 mmC | 15 A | No | |
| HUE-07 | ELECTRIC HUMIDIFIER | 120 V | 1 | 4 A | 0.50 kVA | 2D1 | 18 | 2#10 RW90CU-1000 in 21 mmC | 15 A | No | |
| HUE-08 | ELECTRIC HUMIDIFIER | 120 V | 1 | 4 A | 0.50 kVA | 2D1 | 18 | 2#10 RW90CU-1000 in 21 mmC | 15 A | No | |
| HUE-09 | ELECTRIC HUMIDIFIER | 120 V | 1 | 4 A | 0.50 kVA | 2D1 | 18 | 2#10 RW90CU-1000 in 21 mmC | 15 A | No | |
| HWIE-01 | HOT WATER HEATER | 240 V | 2 | 31 A | 7.50 kVA | 2A1 | 36,38 | 2#8 RW90CU-1000 in 21 mmC | 40 A | No | |
| HWT-01 | HOT WATER TANK | 240 V | 2 | 31 A | 7.50 kVA | 2C1A | 38,40 | 2#8 RW90CU-1000 in 21 mmC | 40 A | No | |
| HWT-02 | HOT WATER TANK | 240 V | 2 | 31 A | 7.50 kVA | 2PV | 7,9 | 2#8 RW90CU-1000 in 21 mmC | 40 A | No | |
| P-01A/B | PUMP | 240 V | 2 | 28 A | 6.72 kVA | 5 2A1 | 29,31 | 2#6 RW90CU-1000 in 27 mmC | 70 A | Yes | |
| P-02 | PUMP | 240 V | 2 | 2 A | 0.53 kVA | 0.16 2A1 | 30,32 | 2#12 RW90CU-1000 in 21 mmC | 15 A | Yes | |
| P-03 | PUMP | 240 V | 2 | 8 A | 1.92 kVA | 1 2A1 | 43,45 | 2#8 RW90CU-1000 in 21 mmC | 20 A | No | |
| P-04 | PUMP | 240 V | 2 | 5 A | 1.18 kVA | 0.5 2A1 | 44,46 | 2#10 RW90CU-1000 in 21 mmC | 15 A | No | |
| P-05 | PUMP | 240 V | 2 | 8 A | 1.92 kVA | 1 2A1 | 47,49 | 2#6 RW90CU-1000 in 27 mmC | 20 A | No | |
| P-06 | PUMP | 240 V | 2 | 7 A | 1.66 kVA | 0.75 2C1A | 32,34 | 2#8 RW90CU-1000 in 21 mmC | 15 A | No | |
| RHE-01 | ELECTRICAL DUCT HEATER | 240 V | 2 | 6 A | 1.50 kVA | 2D1 | 10,12 | 2#12 RW90CU-1000 in 21 mmC | 20 A | No | |
| RHE-02 | ELECTRICAL DUCT HEATER | 240 V | 2 | 5 A | 1.20 kVA | 2D1 | 14,16 | 2#12 RW90CU-1000 in 21 mmC | 15 A | No | |
| RHE-03 | ELECTRICAL DUCT HEATER | 240 V | 2 | 29 A | 7.00 kVA | 2D1 | 11,13 | 2#8 RW90CU-1000 in 21 mmC | 40 A | No | |
| RHE-04 | ELECTRICAL DUCT HEATER | 240 V | 2 | 30 A | 7.30 kVA | 2D1 | 7,9 | 2#8 RW90CU-1000 in 3/4" | 40 A | No | |
| RHE-05 | ELECTRICAL DUCT HEATER | 240 V | 2 | 61 A | 14.60 kVA | 2D1 | 15,17 | 2#4 RW90CU-1000 in 27 mmC | 80 A | No | |
| RHE-06 | ELECTRICAL DUCT HEATER | 240 V | 2 | 32 A | 7.60 kVA | 2D1 | 22,24 | 2#8 RW90CU-1000 in 21 mmC | 40 A | No | |
| RHE-07 | ELECTRICAL DUCT HEATER | 240 V | 2 | 11 A | 2.60 kVA | 2D1 | 19,21 | 3#12 RW90CU-1000 in 21 mmC | 20 A | No | |
| RHE-08 | ELECTRICAL DUCT HEATER | 240 V | 2 | 15 A | 3.50 kVA | 2D1 | 23,25 | 3#12 RW90CU-1000 in 21 mmC | 20 A | No | |
| RHE-09 | ELECTRICAL DUCT HEATER | 240 V | 2 | 2 A | 0.50 kVA | 2A1 | 25,27 | 2#12 RW90CU-1000 in 21 mmC | 15 A | No | |
| RHE-10 | ELECTRICAL DUCT HEATER | 240 V | 2 | 2 A | 0.50 kVA | 2A1 | 40,42 | 2#12 RW90CU-1000 in 21 mmC | 15 A | No | |
| SF-01 | SUPPLY FAN | 120 V | 1 | 4 A | 0.53 kVA | 0.16 2A1 | 7 | 2#12 RW90CU-1000 in 21 mmC | 15 A | No | |
| SF-02 | SUPPLY FAN | 120 V | 1 | 4 A | 0.53 kVA | 0.16 2A1 | 9 | 2#12 RW90CU-1000 in 21 mmC | 15 A | No | |
| UHE-01 | UNIT HEATER | 240 V | 2 | 6 A | 1.50 kVA | 2D1 | 28,30 | 2#12 RW90CU-1000 in 21 mmC | 15 A | No | |

| G-E400 Keynotes (SHOWN AS ◇) | |
|------------------------------|--|
| Number | Description |
| 1 | POWER CONNECTION TO OVERHEAD GARAGE DOOR. COORDINATE EXACT LOCATION AND MOUNTING ARRANGEMENTS ON SITE PRIOR TO ROUGHING-IN. ALLOW FOR UP-DOWN CONTROL SWITCH TO OPERATE DOOR AND COORDINATE EXACT LOCATION ON SITE PRIOR TO ROUGHING-IN. |
| 2 | TIME PHOTOCELL AND 15A-1P CONTACTOR CONTROL FOR PERIMETER OUTSIDE LIGHTING. EXACT MOUNTING HEIGHT AND LOCATION OF PHOTOCELL SHALL BE DETERMINED ON SITE WITH DEPARTMENTAL REPRESENTATIVE PRIOR TO ROUGH-IN. REFER TO TYPICAL DETAIL ON DRAWING E-500. |
| 3 | GARAGE/WORKSHOP POWER PANEL "PP-2A1" COMPLETE WITH BREAKERS AS INDICATED. |
| 4 | RECEPTACLES ARE WALL MOUNTED. COORDINATE EXACT MOUNTING HEIGHTS AND LOCATIONS ON SITE PRIOR TO ROUGHING IN |
| 5 | NEW WEATHER HEAD SUPPORT FOR OVERHEAD FEEDERS COORDINATE EXACT LOCATION AND MOUNTING HEIGHT ON SITE PRIOR TO ROUGHING-IN. |
| 6 | NEW OVERHEAD FEEDER TO EXISTING HOOP HOUSE- RE-CONNECT NEW FEEDER THROUGH EXISTING CONDUIT TO EXISTING HOOP HOUSE PANELBOARD |
| 7 | NEW OVERHEAD FEEDER TO EXISTING CANADIAN HYDRO GRAPHICS WATER GAUGE HUT. RE-CONNECT NEW FEEDER TO EXISTING EQUIPMENT IN THE EXISTING HUT. |
| 8 | FUTURE TELECOM DUCT TO LIVING QUARTERS BUILDING. REFER TO SITE PLAN |
| 9 | SECONDARY DUCTS TO PAD MOUNT TRANSFORMER. REFER TO SITE PLAN DETAIL 4/E100 |
| 10 | POWER SUPPLIES FOR "P" TRAP AND SEAL PRIMER HEAT TRACING. COORDINATE EXACT LOCATIONS WITH CONTRACTORS ON SITE PRIOR TO ROUGHING-IN. |
| 11 | POWER SUPPLIES FOR "P" TRAP AND PIPE HEAT TRACING. COORDINATE EXACT LOCATIONS AND PIPE LENGTH WITH CONTRACTORS ON SITE PRIOR TO ROUGHING-IN. |
| 12 | OPEN TRANSITION TRANSFER SWITCH CONTROLLER. PROVIDE CLASS 2 120V/ 240V SECONDARY TRANSFORMER TO POWER ATS-2 CONTROL CIRCUIT. GENERAL CONTRACTOR TO CONFIRM TRANSFORMER SECONDARY VOLTAGE, MATCHED TO ATS-2 CONTRACTOR. TRANSFORMER PRIMARY FED FROM PP-2A1 CIRCUIT 39, "GENERATOR BATTERY CHARGE". |

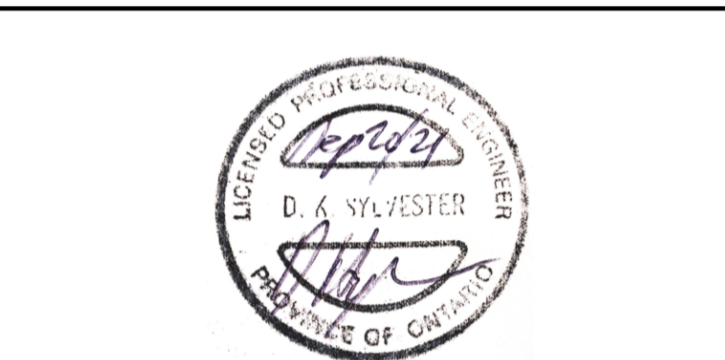
GENERAL NOTES

1. ALL PENETRATIONS AT FIRE SEPARATIONS BY PIPES AND CABLES SHALL BE PROPERLY FIRESTOPPED.

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ST. CATHARINES ONTARIO

drawing title
titre du dessin
GARAGE/WORKSHOP- POWER LAYOUT

drawn by
dessiné par
R.C.

designed by
conçu par
A.O.

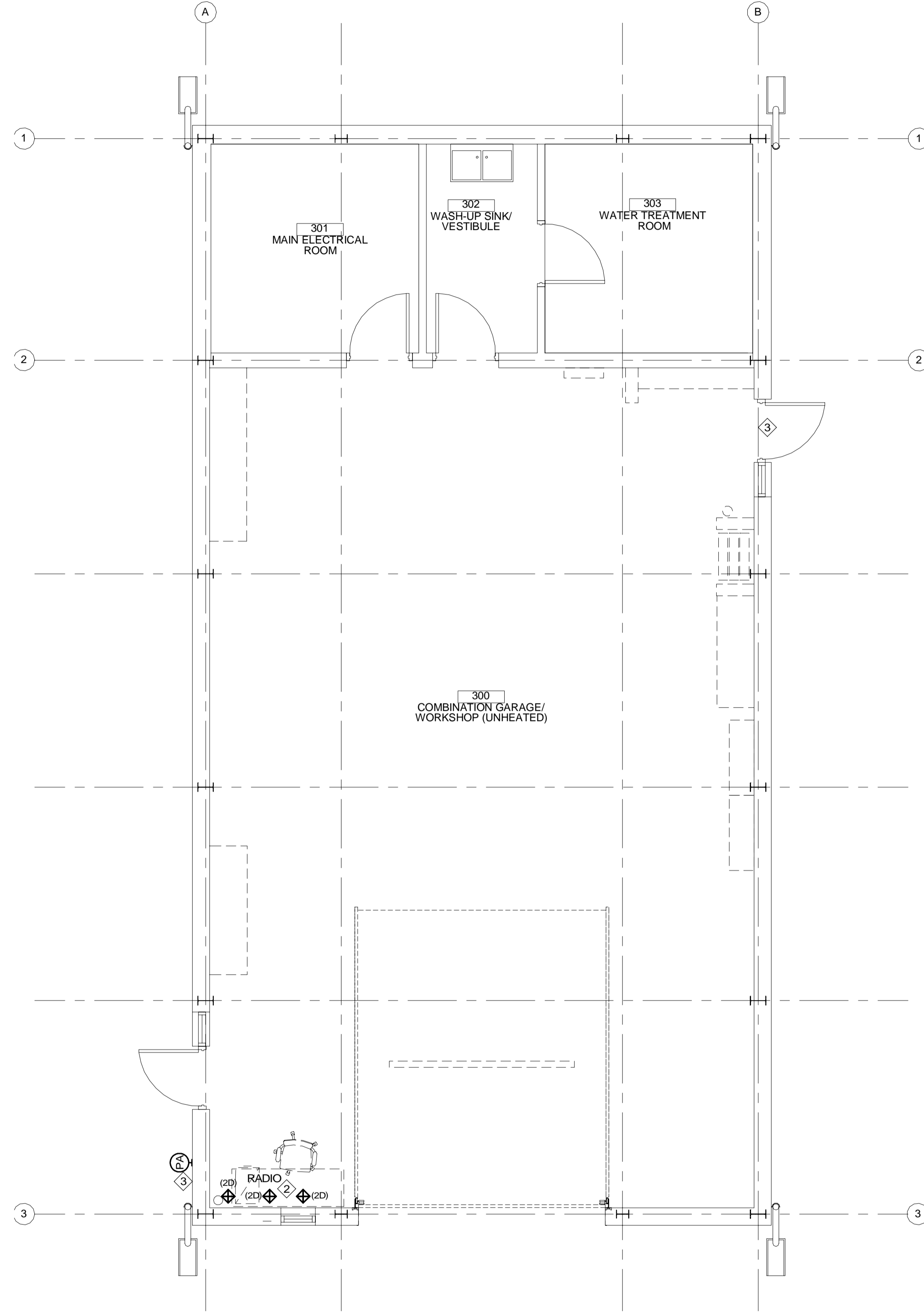
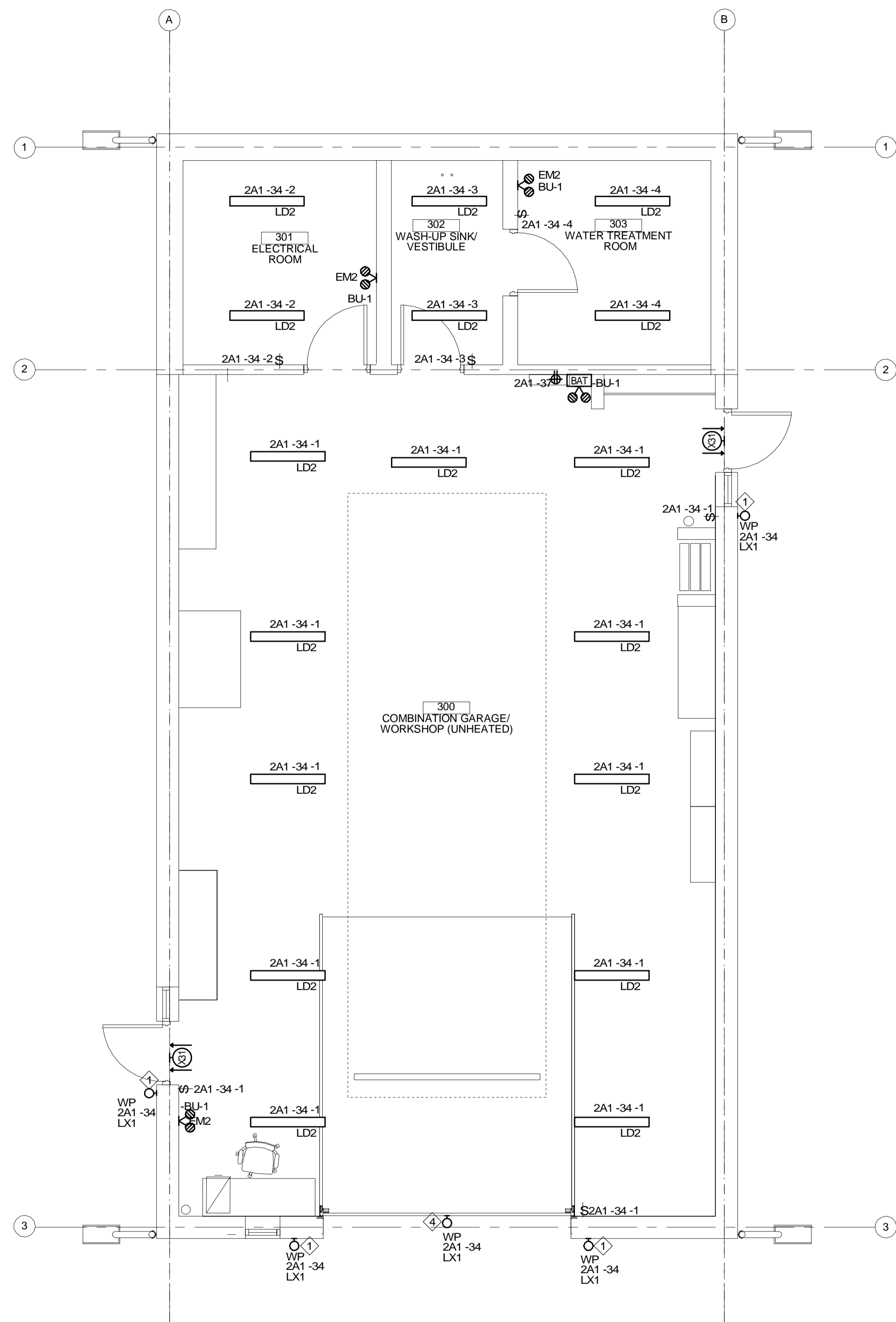
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KG

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date du projet
2021-07-26

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no. du projet
R.079827.001

drawing no.
dessiné no.
E400



1 GARAGE LIGHTING LAYOUT
E401 1:50

2 GARAGE SYSTEMS LAYOUT
E401 1:50

| G-E401 Keynotes (SHOWN AS ◊) | |
|------------------------------|---|
| Number | Description |
| 1 | EXTERIOR LIGHT CONTROLLED BY TIME SWITCH IN GARAGE REFER TO DRAWING 2/E-500 AND NOTE #2 ON DRAWING E-400 |
| 2 | PROVIDE 50.8mm CONDUIT FROM RADIO LOCATION TO ELECTRICAL ROOM. |
| 3 | PROVIDE 25.4mm CONDUIT FROM DOOR LOCATION TO ELECTRICAL ROOM FOR PA SPEAKER. EXACT LOCATION TO BE DETERMINED ON SITE. |
| 4 | MOUNT LUMINAIRE ABOVE GARAGE DOOR REFER TO ARCHITECTURAL DRAWINGS FOR EXACT MOUNTING LOCATION |



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ST. CATHARINES ONTARIO

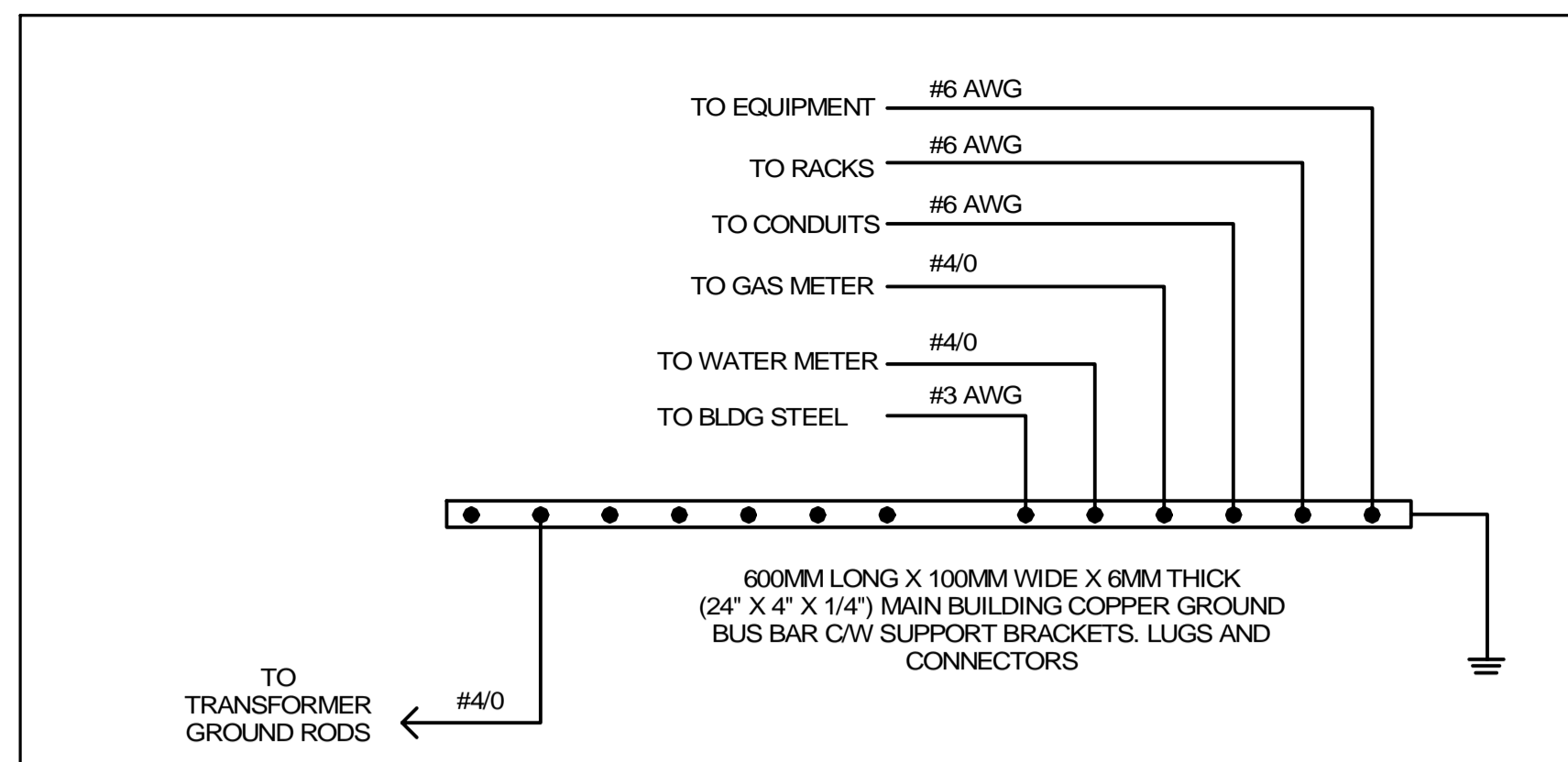
GARAGE/WORKSHOP-LIGHTING AND SYSTEMS LAYOUT

| | | |
|----------------------------|------|---|
| drawn by / dessiné par | R.C. | project manager / administrateur de projets |
| designed by / conçu par | A.O. | |
| approved by / approuvé par | D.S. | |
| bid / offre | KG | |

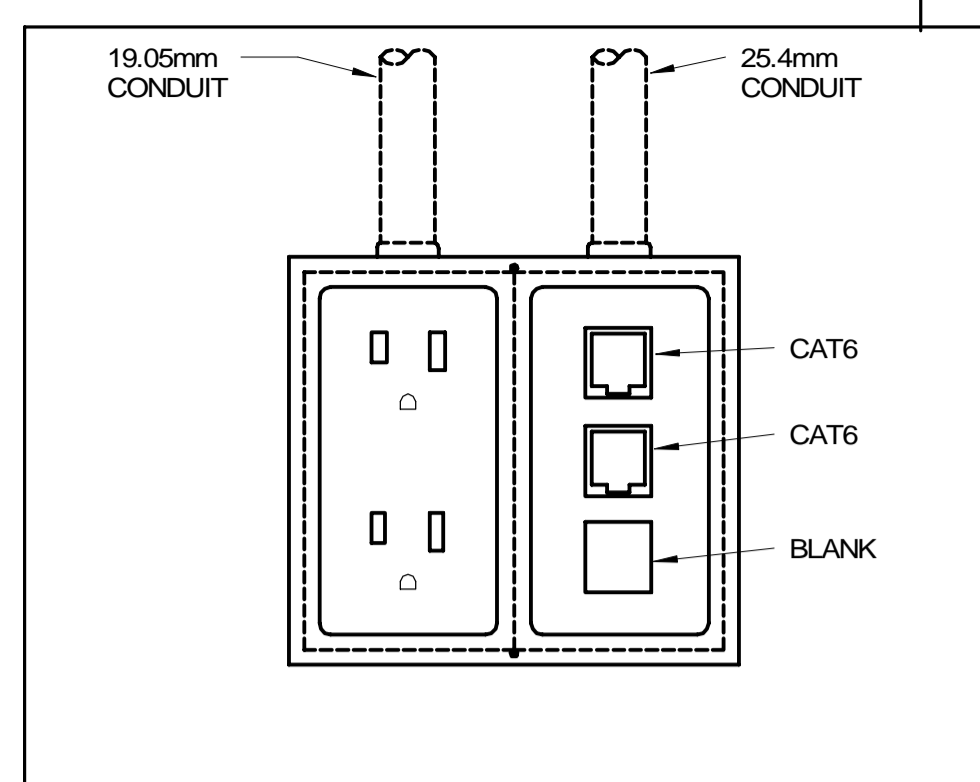
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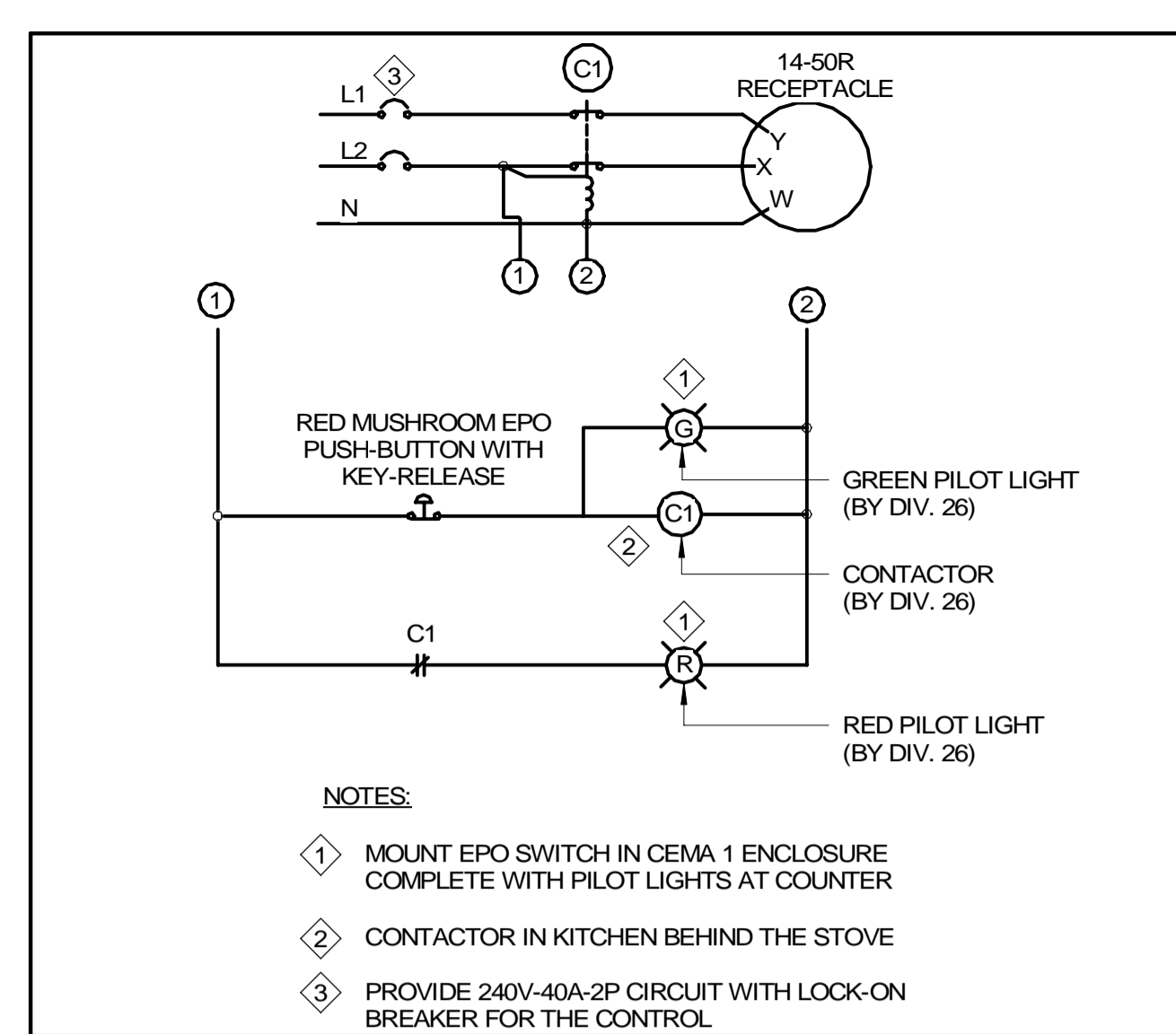
drawing no. / dessiné no.: **E401**



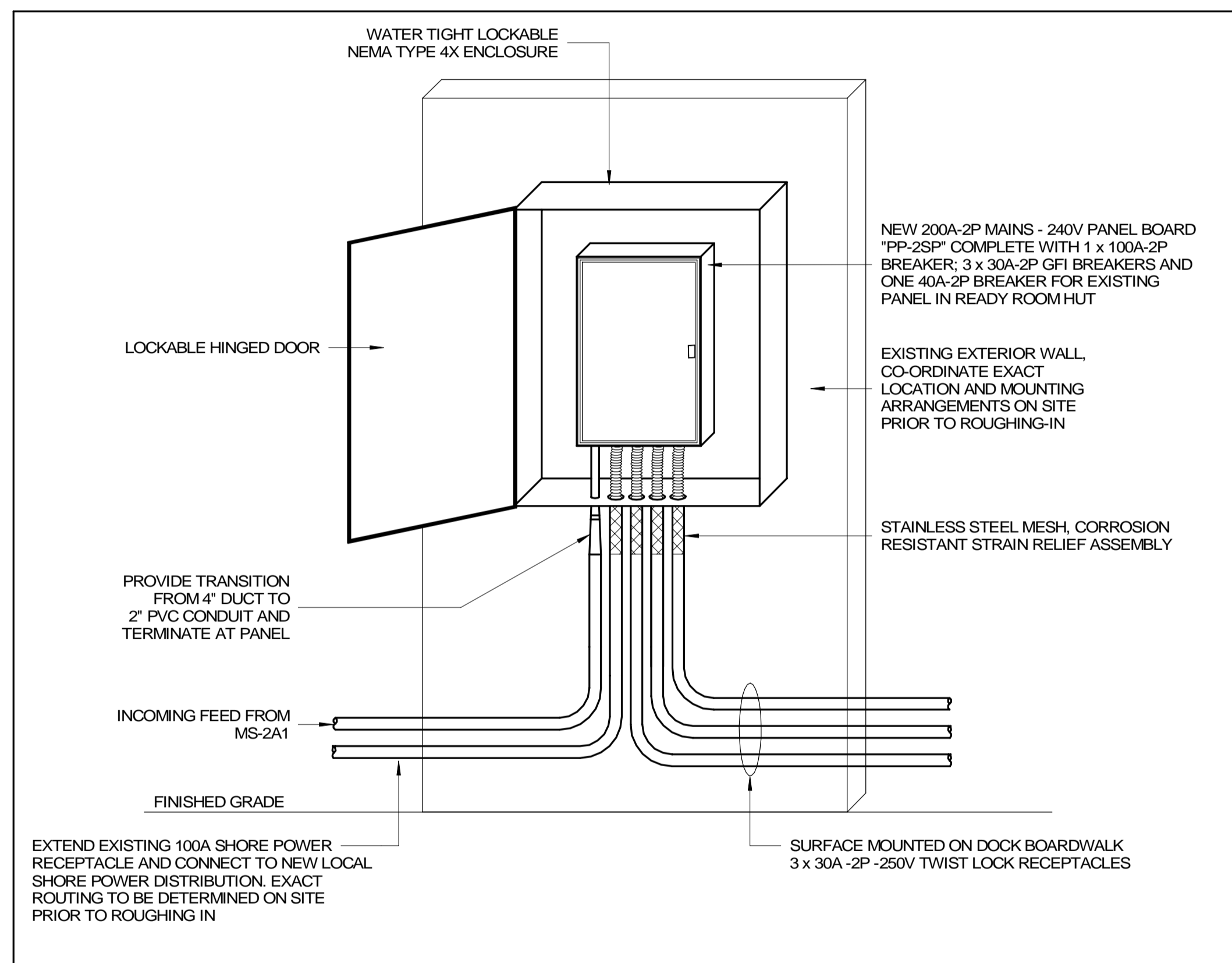
1 TYPICAL GROUNDING RISER DIAGRAM
 E901 1:100



2 POWER/COMM
 E901 1:10



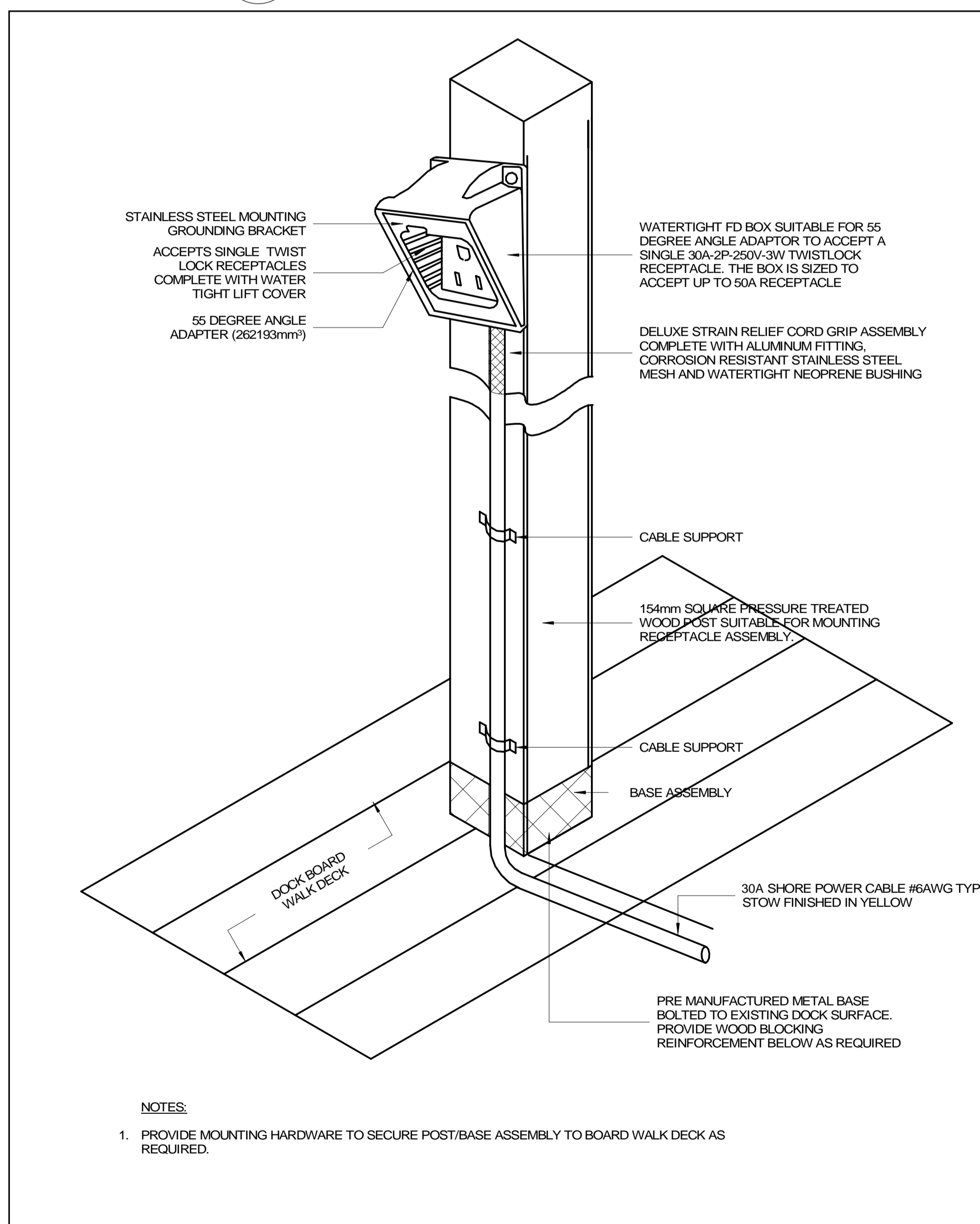
3 EMERGENCY POWER OFF PUSHBUTTON CONTROL DIAGRAM
 E901 N.T.S.



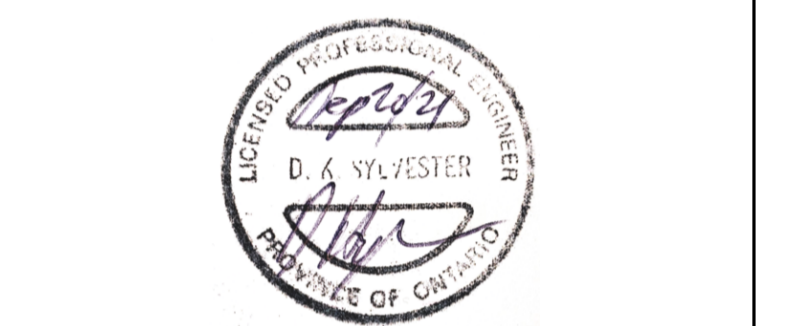
4 NEW LOCAL SHORE POWER DISTRIBUTION "PP-2SP"
 E901 N.T.S.



6 EXISTING POWER DISTRIBUTION IN READY ROOM HUT REMAIN AS CONNECTED
 E901 N.T.S.



5 RECEPTACLE MOUNTED ON PEDESTAL
 E901 N.T.S.



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ST. CATHARINES ONTARIO

drawing title
 titre du dessin
ELECTRICAL DETAILS

drawn by
 dessiné par
 R.E.

designed by
 conçu par
 A.O.

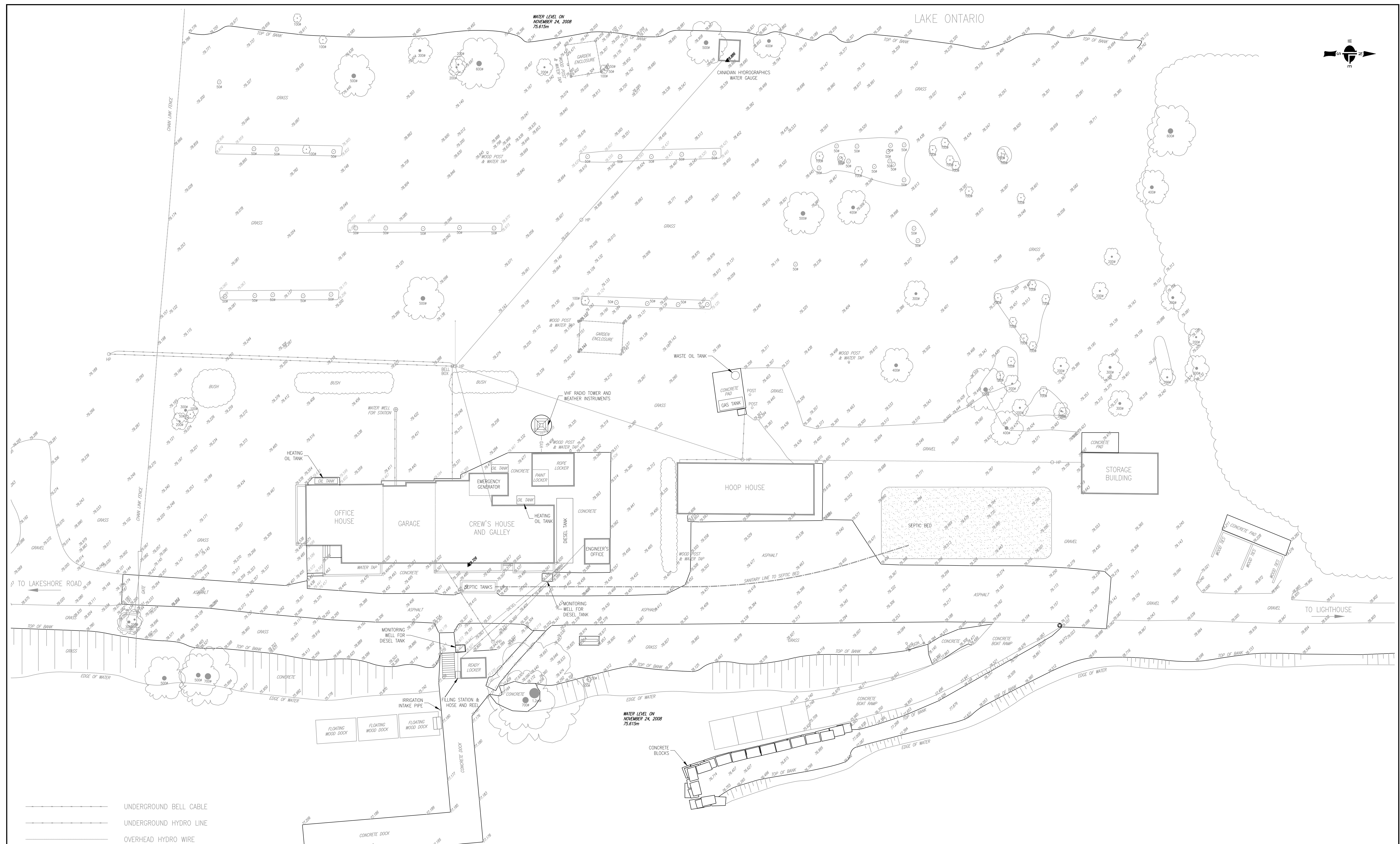
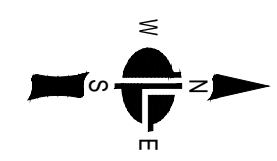
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drawing no.
 dessiné no.
E901



- UNDERGROUND BELL CABLE
- UNDERGROUND HYDRO LINE
- OVERHEAD HYDRO WIRE
- DIESEL --- UNDERGROUND DIESEL LINE
- SANITARY SEWER
- CHAIN LINK FENCE
- WOOD POST FENCE

WELLAND CANAL

| | | |
|--------------------|--|--------------------------|
| DESIGN SIMON IP | | BENCHMARK DESCRIPTION |
| DRAFTING JIP | | ELEVATION |
| CHECKED ... | | |

The V&S Engineering Group Ltd.
 53 Scott Street West, St. Catharines, Ontario L2R 1E2
 Tel: (905) 687-9010 Fax: (905) 687-4064
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OCEANS AND FISHERIES CANADA
 TOPOGRAPHIC SURVEY

| | |
|-----------------|---------------|
| FIELD NOTES ... | |
| DATE | NOVEMBER 2008 |
| SCALE | HORIZ. 1:200 |
| DWG No. | SI-768-01 |
| MUN. REF. No. | ... |
| REV. | ... |