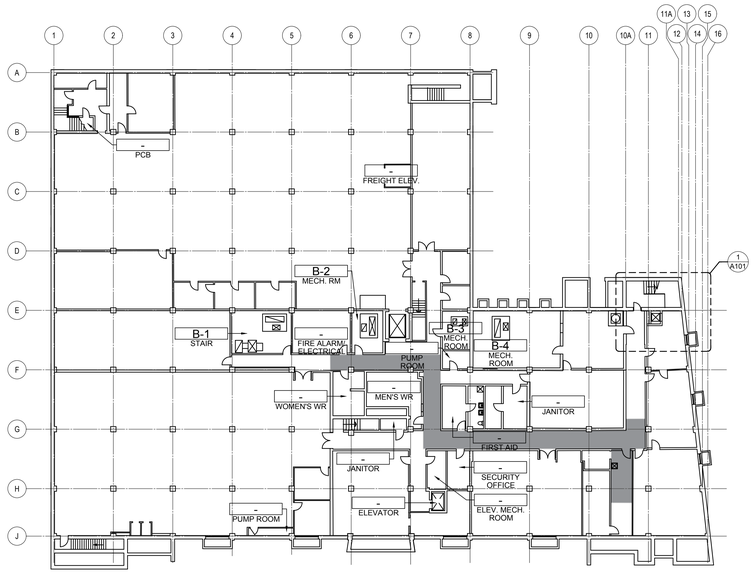
# TENANT FIT UP FOR
# TRANSPORT CANADA

## THE LAURA SECORD BUILDING
## 32 CHURCH STREET, ST. CATHARINES, ONTARIO

*PROJECT NUMBER: R.077633.042*




3 A001 LOCATION PLAN - BASEMENT
1:250

LEGEND:
TEMPORARILY REMOVE AND REINSTATE THE EXISTING ACOUSTICAL CEILING TILES FOR THE INSTALLATION OF THE NEW EMT CONDUIT LINE AND FOR THE REROUTING OF THE EXISTING CONDENSATE LINE DOWN TO THE BASEMENT. EXISTING CEILING TILES THAT INCUR ANY DAMAGES DURING CONSTRUCTION ARE TO BE REPLACED WITH NEW. PATCH AND MAKE GOOD ALL SURFACES AFFECTED BY NEW MECHANICAL AND ELECTRICAL WORK. REFER TO MECHANICAL AND ELECTRICAL.

### DRAWING LIST


ARCHITECTURAL

A001 COVER SHEET, LOCATION PLANS - BASEMENT AND GROUND FLOOR
A002 PARTITION TYPES, FRAME & DOOR TYPES, DOOR & ROOM FINISH SCHEDULES
A100 DEMOLITION PLAN - GROUND FLOOR
A101 PARTIAL DEMOLITION PLANS AT DECOMMISSIONED DUMBWAITER - BASEMENT, SECOND FL, ROOF
A200 DEMOLITION REFLECTED CEILING PLAN - GROUND FLOOR
A300 NEW PARTITION PLAN - GROUND FLOOR
A400 NEW REFLECTED CEILING PLAN - GROUND FLOOR
A401 FLOOR FINISHES PLAN - GROUND FLOOR
A402 SECURITY PLAN - GROUND FLOOR
A500 OVERALL SECTIONS - GROUND FLOOR
A501 WALL SECTION AND INTERIOR ELEVATIONS - GROUND FLOOR
A600 MILLWORK PLANS, SECTIONS AND ELEVATIONS
A601 MILLWORK PLANS, SECTIONS AND ELEVATIONS
A602 MILLWORK PLANS, SECTIONS AND ELEVATIONS
A603 FURNITURE PLAN - GROUND FLOOR

STRUCTURAL

S-01 DEMOLISH AND RE-INFILL AT DUMB WAITER GROUND, SECOND FLOOR AND ROOF SLABS

MECHANICAL

M-100 MECHANICAL LEGENDS, DRAWING LIST AND SCHEDULES
M-410D GROUND FLOOR PLAN - HVAC - DEMOLITION
M-410 GROUND FLOOR PLAN - HVAC - NEW
M-420 SECOND FLOOR PLAN, ROOF PLAN, SCHEMATIC & DETAILS
M-510 GROUND FLOOR & BASEMENT PLANS - P&D AND FIRE PROTECTION
M-600 MECHANICAL PHOTOS

ELECTRICAL

E-100 SITE PLAN AND DRAWING LIST AND SCHEDULES
E-200D GROUND FLOOR - DEMOLITION LAYOUT
E-200 GROUND FLOOR - NEW LIGHTING LAYOUT
E-300 GROUND FLOOR - NEW POWER AND SYSTEMS LAYOUT

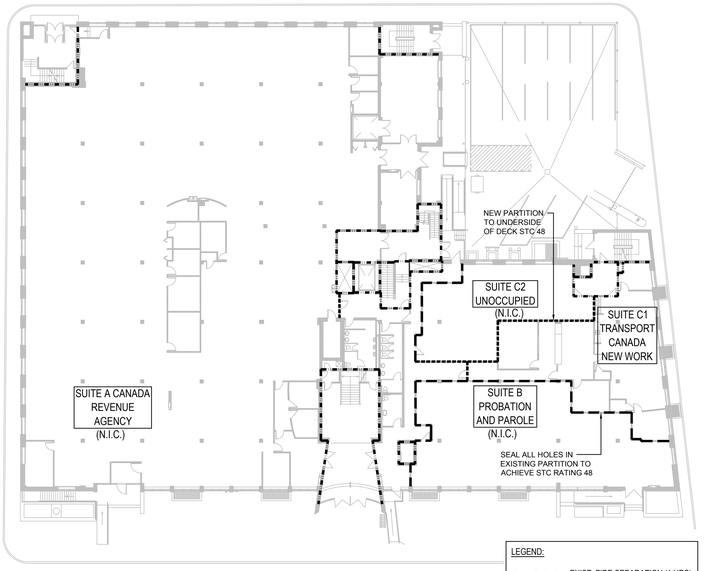

THIS BUILDING CODE DATA MATRIX IS PROVIDED FOR REFERENCE ONLY
NAME OF PROJECT: TENANT FIT UP FOR TRANSPORT CANADA

LOCATION: 32 CHURCH STREET, ST. CATHARINES, ONTARIO

| ITEM | NATIONAL BUILDING CODE DATA MATRIX PART 3 | NBC REFERENCE |
|---|---|---|
| 1 | PROJECT DESCRIPTION: ☐ NEW ☐ ADDITION ☐ CHANGE OF USE ☒ ALTERATION | |
| 2 | MAJOR OCCUPANCY(S) GROUP D (OFFICES) | 3.1.2.1 |
| 3 | BUILDING AREA (m2) ≈ 3,306 (Existing) TOTAL | 1.4.1.2 |
| 4 | GROSS AREA (m2) ≈ 6,612 (Existing) TOTAL | |
| 5 | NUMBER OF STOREYS ABOVE GRADE 2 BELOW GRADE 1 | 1.4.1.2; 3.2.2.60 |
| 6 | NUMBER OF STREETS/FIRE FIGHTER ACCESS 4 | 3.2.2.10; 3.2.5.5 |
| 7 | BUILDING CLASSIFICATION GROUP D, up to 3 Storeys | 3.2.2.60 |
| 8 | SPRINKLER SYSTEM PROPOSED (EXISTING) ☐ ENTIRE BUILDING ☒ BASEMENT ONLY ☐ IN LIEU OF ROOF RATING ☐ NOT REQUIRED | 3.2.1.5 3.2.2.60 |
| 9 | STANDPIPE REQUIRED (EXISTING) ☒ YES ☐ NO | 3.2.5.8 |
| 10 | FIRE ALARM REQUIRED (EXISTING) ☒ YES ☐ NO | 3.2.4 |
| 11 | WATER SERVICE/SUPPLY REQUIRED ☒ YES ☐ NO (EX. USE HAS NOT CHANGED) | 3.2.5.7 |
| 12 | HIGH BUILDING ☐ YES ☒ NO | 3.2.2.5; 3.2.6 |
| 13 | PERMITTED CONSTRUCTION ☐ COMBUSTIBLE ☐ NON-COMB. ☒ BOTH<br>ACTUAL CONSTRUCTION ☐ COMBUSTIBLE ☒ NON-COMB. ☐ BOTH | 3.2.2.60 |
| 14 | MEZZANINE(S) AREA (m2) | N/A |
| 15 | OCCUPANT LOAD BASED ON ☒ m2/PERSON ☐ DESIGN OF BUILDING<br>NO CHANGE TO EXISTING PROPOSED. | 3.1.17 |
| 16 | BARRIER-FREE DESIGN ☒ YES ☐ NO (EXPLAIN) | 3.8 |
| 17 | HAZARDOUS SUBSTANCES ☐ YES ☒ NO | 3.3.1.2. |
| 18 | REQUIRED FIRE RESISTANCE RATING (FRR) — HORIZONTAL ASSEMBLIES FRR (HOURS):<br>FLOORS N/A; 3/4 HOURS — NO PROPOSED CHANGE<br>ROOF N/A; 3/4 HOURS — NO PROPOSED CHANGE<br>MEZZANINE N/A HOURS<br>FRR OF SUPPORTING MEMBERS:<br>FLOORS N/A; 3/4 HOURS — NO PROPOSED CHANGE<br>ROOF N/A; 3/4 HOURS — NO PROPOSED CHANGE<br>MEZZANINE N/A HOURS | 3.2.1.4; 3.2.2.60 |
| 19 | PLUMBING FIXTURE REQUIREMENTS | |

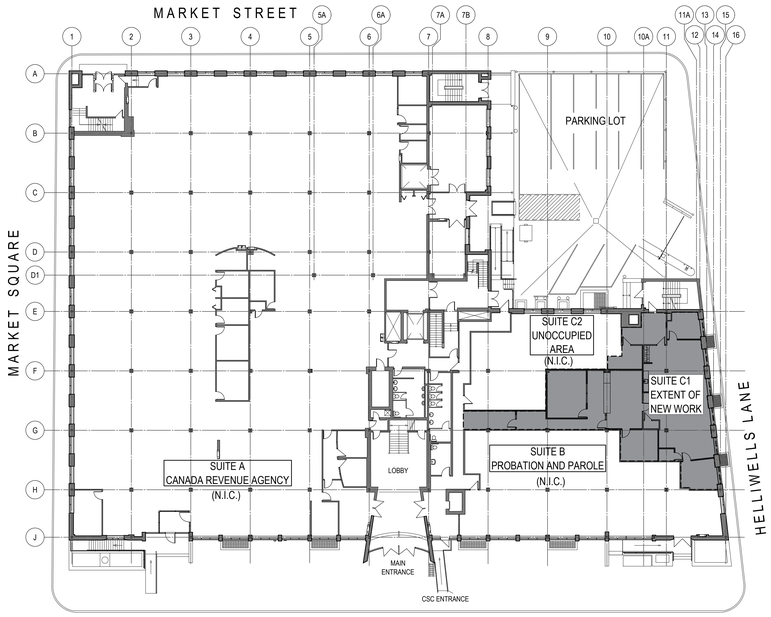
| FLOOR | OCCUPANT LOAD | BC TABLE NO. | FIXTURES REQUIRED | FIXTURES PROVIDED |
|---|---|---|---|---|
| NO PROPOSED CHANGE TO EXISTING. | | | | |

20 OTHER – DESCRIBE N/A




LEGEND:
EXIST. FIRE SEPARATION (1 HRS)
EXIST. SUITE SEPARATION
NEW SUITE SEPARATION (STC 48)

2 A001 TENANT SUITE AND FIRE SEPARATIONS - GROUND FLOOR
1:250




1 A001 LOCATION PLAN - GROUND FLOOR
1:250


Public Works and Government Services Canada
Architectural and Engineering Services
Ontario Region
Travaux publics et Services gouvernementaux Canada
Services d'architecture et de génie
Région de l'Ontario

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| 06 | ISSUED FOR TENDER REVIEW | 2016.09.02 |
| 05 | ISSUED FOR 99% REVIEW | 2016.07.29 |
| 04 | ISSUED FOR COSTING | 2016.07.07 |
| 03 | ISSUED FOR 66% REVIEW | 2016.06.10 |
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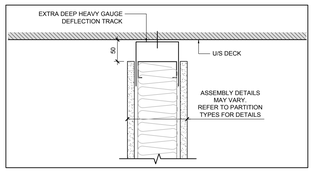
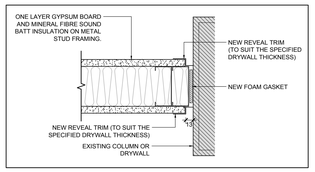
project title / titre du projet: TENANT FIT UP FOR TRANSPORT CANADA 32 CHURCH STREET ST. CATHARINES, ONTARIO

drawing title / titre du dessin: COVER SHEET, LOCATION PLANS – BASEMENT AND GROUND FLOOR

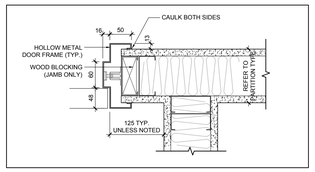
drawn by / dessine par: ES
designed by / conc par: CEH
approved by / approuve par: JT
bid / offre
project manager / administrateur de projets
project date / date du projet: 2016.10.11
project no. / no. du projet: R.077633.042
drawing no. / dessine no.: A001



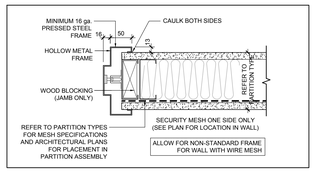

8 A002 DETAIL - PARTITION TO U/S OF DECK (TYP.)
1:5



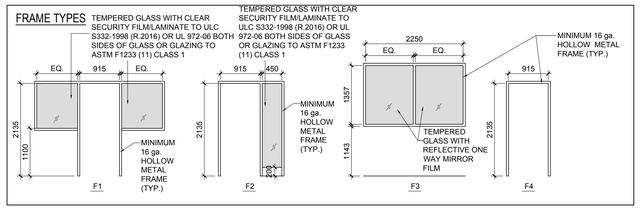

7 A002 DETAIL - AT EXISTING GWB (TYP.)
1:5



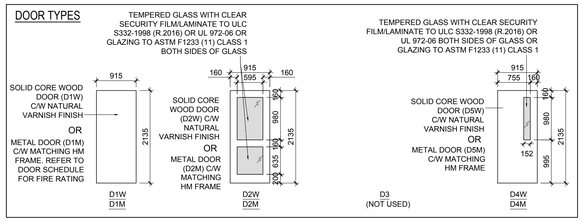

6 A002 DETAIL - DOOR JAMB (TYP.)
1:5




5 A002 DETAIL - DOOR JAMB WITH SECURITY MESH (TYP.)
1:5




4 A002 FRAME TYPES
1:50




3 A002 DOOR TYPES
1:50

## Door and Frame Schedule

| Number | Room | Door Type | Frame Type | Width | Height | Fire Exit | STC Rating | Fire-Resistance Rating of Fire Separation | Fire-Protection Rating of Closure / Frame | Operator | Closer | Card Reader |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| D111 | OPEN OFFICE | D2M | F1 | 915 | 2135 | - | - | - | - | | Y | Y |
| D113 | CORRIDOR | D4M | F2 | 915 | 2135 | - | - | - | - | | Y | |
| D115 | EXAMINATION ROOM | D4W | F4 | 915 | 2135 | - | | - | - | | Y | |
| D116 | VESTIBULE | D2M | F2 | 915 | 2135 | - | - | - | - | | Y | Y |
| D117B | EX. STAIR 5 VESTIBULE | EXISTING | EXISTING | | | - | | Y - EXISTING | Y - EXISTING | | | |
| D118 | OFFICE | D1W | F4 | 915 | 2135 | - | | - | - | | - | |
| D122 | EXIST. BAS CONTROLS RM | EXISTING | EXISTING | | | - | | | | | | |
| D123 | HIGH DENSITY FILING STORAGE ROOM | D1M | F4 | 915 | 2135 | - | - | 1h | 3/4h | | Y | Y |
| D123B | LAN ROOM | D1M | F4 | 812 | 2135 | - | - | - | - | | Y | |
| D125 | MEETING ROOM | D4W | F2 | 915 | 2135 | - | - | - | - | | | |
| F3 | EXAMINATION ROOM | - | F3 | 2350 | 1457 | - | | | | | | |

Note 1: New entrance bell at D113 to notify staff in Open Office 111.

**Glossary:**

| | |
|---|---|
| EXISTING | Existing to remain. |
| INSUL | Insulated Exterior Door |
| N/C | No Change |
| PDO | Power Door Operator |
| TBD | To be Determined |
| THB | Thermally broken frame |
| MFB | Manual Flush Bolt |

**Materials:**

| | |
|---|---|
| AL | Aluminum |
| GL | Glass |
| HM | Hollow Metal |
| WD | Wood |

2 A002 DOOR SCHEDULE

## *Room Finish Schedule*

| Room No. | Name | Walls | | | | | | | | | Floor | Ceiling | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | North | | East | | South | | West | | Wall Base | | | |
| | | MATERIAL | FINISH | MATERIAL | FINISH | MATERIAL | FINISH | MATERIAL | FINISH | | | MATERIAL | FINISH |
| 111 | Open Staff Office - Transport Canada | GWB | PT1 | GWB | PT1 | GWB | PT1 | GWB | PT1 | CPT | CPT | ACT/EX GWB Bulkhead | PT6 |
| 112 | Open Office - Unoccupied | GWB | PT4 | EX | EX | EX | EX | GWB/EX | EX/PT4 | EX | EX | ACT/EX | |
| 113 | Corridor | GWB | PT5 | - | - | GWB | PT5 | GWB | PT5 | CT | CT | ACT | |
| 114 | Corridor | EX | PT1 | GWB | PT1 | GWB | PT1 | GWB | PT1 | CT | CT | ACT | |
| 115 | Examination Room | GWB | PT1 | GWB | PT2,3 | GWB | PT1 | GWB | PT1 | CPT | CPT | ACT | |
| 116A | Vestibule | GWB | PT1 | GWB | PT1 | GWB | PT1 | GWB | PT1 | CT | CT | ACT / GWB Bulkhead | PT6 |
| 116B | Service Counter | GWB | PT1 | GWB | PT1 | GWB | PT1 | GWB | PT1 | CPT | CPT | ACT / GWB Bulkhead | PT6 |
| 117 | Ex. Stair 5 Vestibule | EX | PT5 | EX | PT5 | EX | PT5 | EX | PT5 | EX | EX | EX | |
| 118 | Office | GWB | PT1 | GWB/EX | PT1 | GWB/EX | PT2,3 | EX | PT1 | CPT | CPT | ACT/EX GWB Bulkhead | PT6 |
| 119 | Library/Resource | - | - | - | - | GWB | PT1 | EX | PT1 | CPT | CPT | ACT/EX GWB Bulkhead | PT6 |
| 120 | Kitchenette/Coat Closet | GWB | PT1 | GWB / CWT | PT1 / CWT | GWB | PT1 | - | - | RB | RF1 | ACT | |
| 122 | Exist. BAS Controls Room | EX | EX | EX | EX | EX | EX | EX | EX | EX | EX | NF | |
| 123 | High Density Storage Room | EX | PT1 | EX | PT1 | GWB / EX | PT1 | GWB | PT1 | CPT | CPT | ACT | |
| 123B | LAN Room | EX | PT7 | GWB | PT7 | GWB | PT7 | GWB | PT7 | RB | RF2 | NF | |
| 125 | Meeting Room | EX | PT2,3 | EX | PT1 | GWB | PT1 | EX | PT1 | CPT | CPT | ACT/EX GWB Bulkhead | PT6 |

Note: Provide PT6 paint finish on all sides of GWB bulkheads shown on drawings.

Note: After construction is completed, all walls of Ex. Stair 5 Vestibule 117 and at all existing walls of Stair 5 Landing to be painted. Refer to finishes schedule. Paint finish to existing walls of Stair 5 landing to follow that specified for Ex. Stair 5 Vestibule 117. Any other base building wall/partition locations and/or surfaces damaged/altered/affected by construction access to be repainted to correspond with that of the existing base building paint finish and/or replaced with new finishes that correspond with that of the existing base building at that location.

Note: Locations for accent walls to be confirmed.

**Finishes**

| | | | |
|---|---|---|---|
| ACT | Suspended acoustic tile ceiling | NF | No Finish |
| CPT | Carpet Tile | RB | Resilient Base |
| CT | Ceramic Floor Tile | RF1 | Resilient Flooring (VCT) |
| CWT | Ceramic Wall Tile | RF2 | Resilient Flooring (VCT - Static Dissipative) |
| GWB | Gypsum Wall Board | EX | Existing |

* All identified finishes to be new unless specifically identified as existing.

**Painting**

| | | |
|---|---|---|
| PT1 | Gypsum wallboard, level 4 finish, primed and painted 2 coats latex - To correspond closely to colour 'AF-685, Thunder' | Colour - Field Wall Colour |
| PT2 | Gypsum wallboard, level 4 finish, primed and painted 2 coats latex - To correspond closely to colour 'AF-560, Flint' | Colour - Accent Wall |
| PT3 | Gypsum wallboard, level 4 finish, primed and painted 2 coats latex - To correspond closely to colour 'HC-168, Chelsea Gray' | Colour - Accent Wall |
| PT4 | Gypsum wallboard, level x finish, primed 2 coats | Primer Finish |
| PT5 | Gypsum wallboard, level 4 finish, primed and painted 2 coats latex - Light Green to correspond with that of the existing base building paint finish at the corridor | Colour - Public Corridor |
| PT6 | Gypsum board ceiling and/or bulkhead, level 4 finish, primed and painted 2 coats latex - To correspond closely to colour 'AF-685, Thunder' | Colour - Gypsum board Bulkheads and Ceilings |
| PT7 | Gypsum wallboard with 19mm firerated plywood primed and painted 2 coats latex - To correspond closely to colour 'AF-685, Thunder' | Colour - Field Wall Colour |

Colours noted above where applicable to correspond with that of the existing base building paint finish at public areas.

1 A002 ROOM FINISH SCHEDULE


Public Works and Government Services Canada
Architectural and Engineering Services
Ontario Region
Travaux publics et Services gouvernementaux Canada
Services d'architecture et de génie
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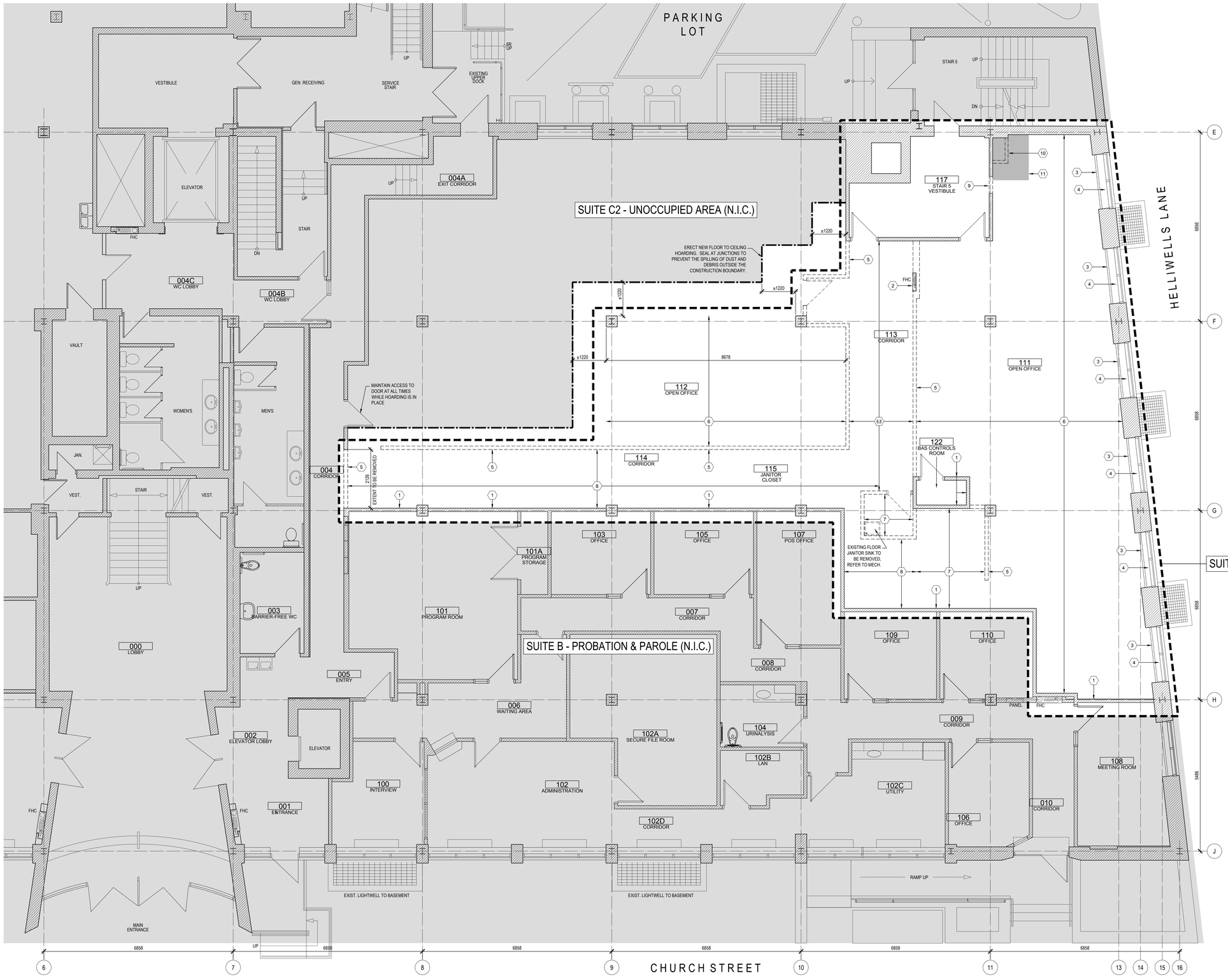
TENANT FIT UP FOR TRANSPORT CANADA
32 CHURCH STREET–GRND FLR
ST. CATHARINES, ONTARIO

drawing title / titre du dessin
PARTITION TYPES, FRAME & DOOR TYPES, DOOR & ROOM FINISH SCHEDULES

drawn by / dessine par: ES
designed by / conc par: CEH
approved by / approuve par: JT
bid / offre
project manager / administrateur de projets
project date / date du projet: 2016.10.11
project no. / no. du projet: R.077633.042
drawing no. / dessine no.: A002




## DEMOLITION FLOOR PLAN LEGEND

- EXTENT OF NEW HOARDING
- EXTENT OF WORK
- EXISTING WALL/PARTITION TO REMAIN
- EXISTING PARTITION TO BE DEMOLISHED, MGAT
- EXISTING DOOR TO REMAIN
- EXISTING DOOR TO BE DEMOLISHED, MGAT
- EXTENT OF EXISTING FLOOR SLAB TO BE REMOVED. SEE DEMOLITION FLOOR PLAN NOTES.

## ABBREVIATIONS

MGAT - MAKE GOOD ALL TRADES AT JUNCTIONS, TYPICAL

## DEMOLITION FLOOR PLAN NOTES

1. EXISTING WALL/PARTITION TO REMAIN. PROTECT IN PLACE. PATCH AND REPAIR ALL DAMAGES INCURRED DURING CONSTRUCTION.
2. EXISTING FHC TO BE REMOVED AND RELOCATED. REFER TO ARCHITECTURAL AND MECHANICAL DRAWINGS FOR NEW WORK.
3. RETAIN AND PROTECT EXISTING RADIATOR UNITS AND THEIR ENCLOSURES DURING WORK. RADIATORS TO BE CLEANED DURING CONSTRUCTION
4. EXISTING ROLLER BLINDS TO BE REMOVED AND RETURNED TO DEPARTMENTAL REPRESENTATVIE, MGAT.
5. EXISTING PARTITION TO BE REMOVED. MGAT.
6. EXISTING CARPET TO BE REMOVED. MGAT.
7. EXISTING VINYL TILE TO BE REMOVED. MGAT.
8. EXISTING EXPOSED CONCRETE TO BE FULLY PREPARED PRIOR TO INSTALLATION OF NEW FLOOR FINISH.
9. DEMOLISH PORTION OF EXISTING PARTITION TO RECEIVE THE RELOCATED FIRE HOSE CABINET. SEE MECHANICAL PATCH AND MAKE GOOD ALL SURFACES AND JUNCTIONS UPON COMPLETION OF MECHANICAL WORK.
10. REMOVE THE REQUIRED PORTION OF THE EXISTING DRYWALL PARTITION ENCLOSURE AS REQUIRED FOR ACCESS TO NEW MECHANICAL WORK INSTALLATION AND FOR WORK TO THE REMOVAL AND REPLACEMENT OF NEW SLAB INFILL AT GROUND AND SECOND FLOORS.
11. REMOVE PORTION OF EXISTING GROUND FLOOR SLAB SHOWN SHADED. SHADED AREA REPRESENTS APPROXIMATE AREA AND EXTENT OF THE EXISTING COMBUSTIBLE AND NON-COMBUSTIBLE SLAB CONSTRUCTION TO BE REMOVED AND REPLACED WITH NEW NON-COMBUSTIBLE CONSTRUCTION.

    CONTRACTOR IS RESPONSIBLE TO PERFORM AN X-RAY INVESTIGATION OF THE EXISTING FLOOR SLAB AND TO REVIEW THE EXTENT OF THE EXISTING SLAB TO BE REMOVED. REFER TO STRUCTURAL FOR REQUIREMENTS AND SCOPE OF WORK. COORDINATE WITH MECHANICAL TO REVIEW EXISTING SERVICES AT THIS LOCATION AND FOR DETAILS ON THE NEW SCOPE OF WORK.

    ENSURE ALL PENETRATIONS, OPENINGS, CRACKS AND JUNCTIONS ARE PATCHED, SEALED AND FIRESTOPPED TO MAINTAIN A MINIMUM 45 MINUTE FIRE RESISTANCE RATING AT THE FLOOR ASSEMBLY. DURING CONSTRUCTION, CONTRACTOR IS RESPONSIBLE FOR PROVIDING A MINIMUM 45 MINUTE FIRE SPEARATION AT THE FLOOR ASSEMBLY WHEN NEW OPENINGS AT THE FLOOR ARE EXPOSED.

GENERAL NOTES:

1. PATCH, REPAIR & MAKE GOOD ALL SURFACES AFFECTED BY DEMOLITION & PREPARE FOR NEW FINISHES AND CONSTRUCTION.
2. REMOVE ALL EXISTING WALL BASES AT LOCATIONS OF FLOORING SHOWN TO BE REMOVED, MGAT.

1 / A100 DEMOLITION PLAN - GROUND FLOOR
1:50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32 CHURCH STREET
ST. CATHARINES, ONTARIO

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DEMOLITION PLAN – GROUND FLOOR

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approved by / approuve par: JT
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project no. / no. du projet: R.077633.042
drawing no. / dessine no.: A100

REFER TO DEMOLITION NOTES.

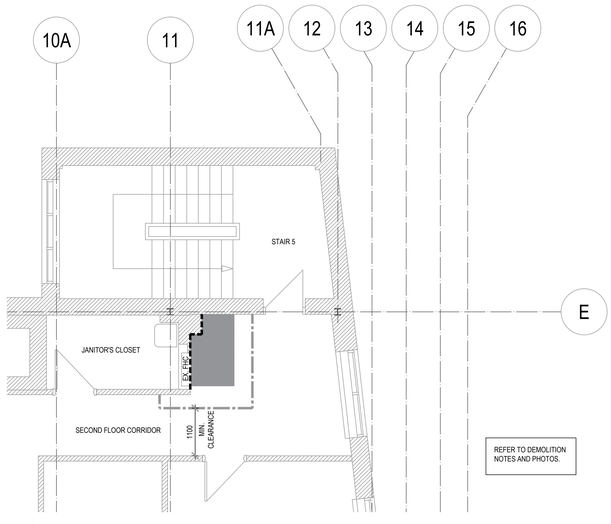
4 A101 PHOTO OF SECOND FLOOR CORRIDOR AT EX. FLOOR SLAB REMOVAL AND RE-INFILL
1:50

APPROXIMATE LOCATION FOR NEW OPENINGS TO BE CREATED IN EXISTING ROOFTOP ENCLOSURE WALL TO ALLOW FOR MECHANICAL EXHAUST DUCT AND REFRIGERANT LINE PENETRATION OPENINGS. CREATE OPENING BELOW STONE CLADDING IF POSSIBLE. COORDINATE WITH MECHANICAL REQUIREMENTS. REFER TO DEMOLITION NOTES.

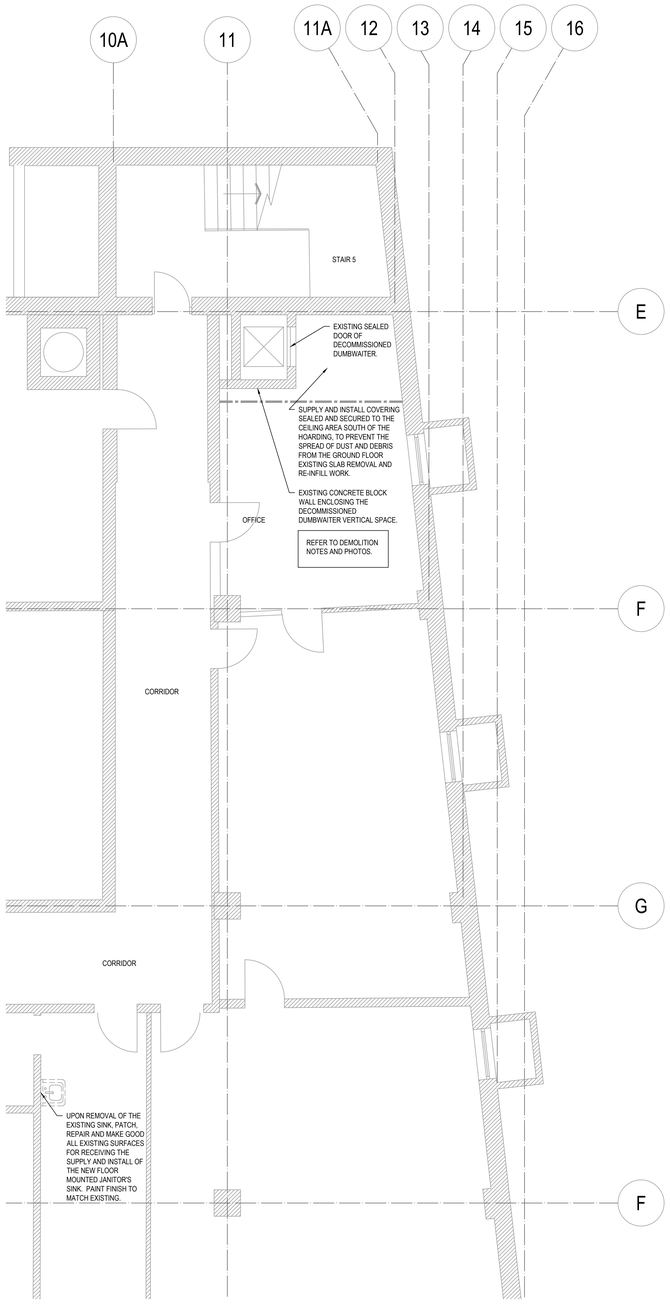
5 A101 PHOTO OF ROOFTOP ENCLOSURE WHERE NEW MECH SERVICES TO PENETRATE
1:50

REFER TO DEMOLITION NOTES.

3 A101 PHOTO OF U/S OF EXISTING SECOND FLOOR SLAB (COMBUSTIBLE AND NON-COMBUSTIBLE CONSTRUCTION
1:50




2 A101 PARTIAL DEMOLITION PLAN - SECOND FLOOR
1:50




1 A101 PARTIAL DEMOLITION PLAN - BASEMENT
1:50

## LEGEND

- - - - - DEMOLISH THE EXISTING DRYWALL PARTITION AS REQUIRED TO ENABLE ACCESS FOR EXECUTING SCOPE OF WORK RELATED TO EXISTING FLOOR SLAB DEMOLITION AND INFILL AND INSTALLATION OF NEW MECHANICAL SERVICES. ONCE NEW WORK IS COMPLETED, THE DEMOLISHED PORTION OF THE PARTITION TO BE REPLACED WITH NEW. NOTIFY DEPARTMENTAL REPRESENTATIVE IF ANY WALL MOUNTED ITEMS REQUIRE REMOVAL. ALL SURFACES AND JUNCTIONS TO BE PATCHED, REPAIRED AND MADE GOOD. PAINT FINISH TO MATCH EXISTING.

—·—·— APPROXIMATE LOCATION OF FLOOR TO CEILING HOARDING. REFER TO GENERAL NOTE 1.

APPROXIMATE LOCATION AND EXTENT OF THE EXISTING FLOOR SLAB TO BE REMOVED AND REPLACED WITH NEW, SEE STRUCTURAL. CONTRACTOR IS RESPONSIBLE FOR REVIEWING THE EXTENT OF THE EXISTING INFILL TO BE REMOVED. REFER TO DEMOLITION NOTES FOR FURTHER DETAILS.

## GENERAL NOTES FOR DEMOLITION

### AT LOCATIONS OUTSIDE DEMISING WALLS OF GROUND FLOOR TENANT SPACE AND AT DECOMMISSIONED DUMBWAITER LOCATION

1. HOARDING (APPLIES TO BASEMENT, SECOND FLOOR AND ROOF):
   1.1. SUPPLY AND INSTALL A FLOOR TO CEILING HOARDING TO ENCLOSE THE AREA OF WORK. ENSURE THAT ALL JUNCTIONS ARE SEALED TO PREVENT THE SPREAD OF DUST AND DEBRIS TO THE ADJACENT PUBLIC SPACES OR OFFICES. A MINIMUM 1100MM CLEARANCE IN THE CORRIDOR TO BE MAINTAINED AT ALL TIMES. HOARDING TO INCLUDE AN ACCESS DOOR IF REQUIRED FOR CONTRACTOR ACCESS TO THE WORKSPACE, BUT TO NOT IMPEDE ON A BUILDING OCCUPANT'S PATH OF TRAVEL OR SAFETY. HOARDING SHALL NOT OBSTRUCT THE EXIT PATH NOR THE EXIT DOOR. CONTRACTOR IS RESPONSIBLE FOR PROVIDING A MINIMUM 45 MINUTE FIRE SEPARATION AT THE FLOOR ASSEMBLY WHEN NEW OPENINGS AT THE FLOOR ARE EXPOSED DURING CONSTRUCTION.

2. EXISTING FLOOR SLAB INFILL (APPLIES TO GROUND AND SECOND FLOORS):
   2.1. EXISTING FLOOR SLAB INFILL (COMBINATION COMBUSTIBLE AND NON-COMBUSTIBLE CONSTRUCTION) TO BE REMOVED AND REPLACED WITH NEW NON-COMBUSTIBLE CONSTRUCTION. NEW SLAB INFILL TO ALLOW FOR MECHANICAL SERVICE PENETRATIONS, REFER TO MECHANICAL. REFER TO STRUCTURAL FOR DETAILS OF THE NEW FLOOR ASSEMBLY. CONTRACTOR IS RESPONSIBLE FOR REVIEWING THE EXTENT OF THE EXISTING INFILL TO BE REMOVED. CONTRACTOR TO PERFORM AN X-RAY INVESTIGATION AT THE EXISTING SLAB LOCATIONS PRIOR TO DEMOLITION AND CORING. PROVIDE FIRESTOPPING AT ALL PENETRATIONS AND JUNCTIONS TO MAINTAIN A MINIMUM 45 MINUTE FIRE RESISTANCE RATING AT THE FLOOR ASSEMBLY.

3. FINISHES (APPLIES TO BASEMENT, GROUND AND SECOND FLOORS):
   3.1. EXISTING CARPET TILE FLOORING AND BASE THAT WAS REQUIRED TO BE REMOVED FOR THE EXISTING SLAB DEMOLITION AND RE-INFILL, TO BE REPLACED WITH NEW, TO CORRESPOND WITH THAT OF THE EXISTING BASE BUILDING CARPET TILE AT THAT LOCATION.
   3.2. EXISTING ACOUSTICAL CEILING TILES (AND EXISTING GRID IF REQUIRED) THAT WAS REQUIRED TO BE REMOVED FOR THE EXISTING SLAB DEMOLITION AND RE-INFILL, TO BE REINSTATED. EXISTING CEILING TILES THAT INCUR ANY DAMAGES DURING CONSTRUCTION ARE TO BE REPLACED WITH NEW TO CORRESPOND WITH THAT OF THE EXISTING BASE BUILDING CEILING TILES AT THAT LOCATION. ADJACENT EXISTING DRYWALL BULKHEAD TO BE PROTECTED DURING CONSTRUCTION. PATCH, REPAIR AND MAKE GOOD ANY DAMAGES THAT MAY INCUR DURING CONSTRUCTION. PAINT FINISH TO CORRESPOND WITH THAT OF THE EXISTING BASE BUILDING PAINT FINISH AT THAT LOCATION.

4. APPLIES TO ROOF
   4.1. EXISTING CONCRETE ROOF SLAB TO BE CORED TO ALLOW FOR MECHANICAL SERVICE PENETRATIONS, SEE MECHANICAL. CONTRACTOR TO PERFORM AN X-RAY INVESTIGATION AT THE EXISTING SLAB LOCATIONS PRIOR TO DEMOLITION AND CORING. PATCH, REPAIR, SEAL AND FIRESTOP ALL PENETRATIONS, OPENINGS AND CUTS AT THE ROOF SLAB. FIRESTOPPING AT ALL PENETRATIONS AND JUNCTIONS TO MAINTAIN A MINIMUM 45 MINUTE FIRE RESISTANCE RATING AT THE ROOF SLAB.
   4.2. CUT OPENING IN EXISTING ROOFTOP ENCLOSURE SIDE WALL (STONE-CLADDED) TO ALLOW FOR MECHANICAL SERVICE PENETRATIONS. PATCH, REPAIR AND MAKE GOOD ANY DAMAGES THAT MAY INCUR DURING CONSTRUCTION. MGAT, TYPICAL.

5. RETURN ANY EXISTING BUILDING COMPONENTS THAT HAVE BEEN REMOVED SUCH AS EXISTING SIGNS, TO BE SALVAGED AND RETURNED TO DEPARTMENTAL REPRESENTATIVE.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ST. CATHARINES, ONTARIO

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PARTIAL DEMOLITION PLANS AT DECOMMISSIONED DUMBWAITER–BASEMENT, SECOND FL, ROOF

drawn by / dessine par: ES
designed by / conc par: CEH
approved by / approuve par: JT
bid / offre
project manager / administrateur de projets
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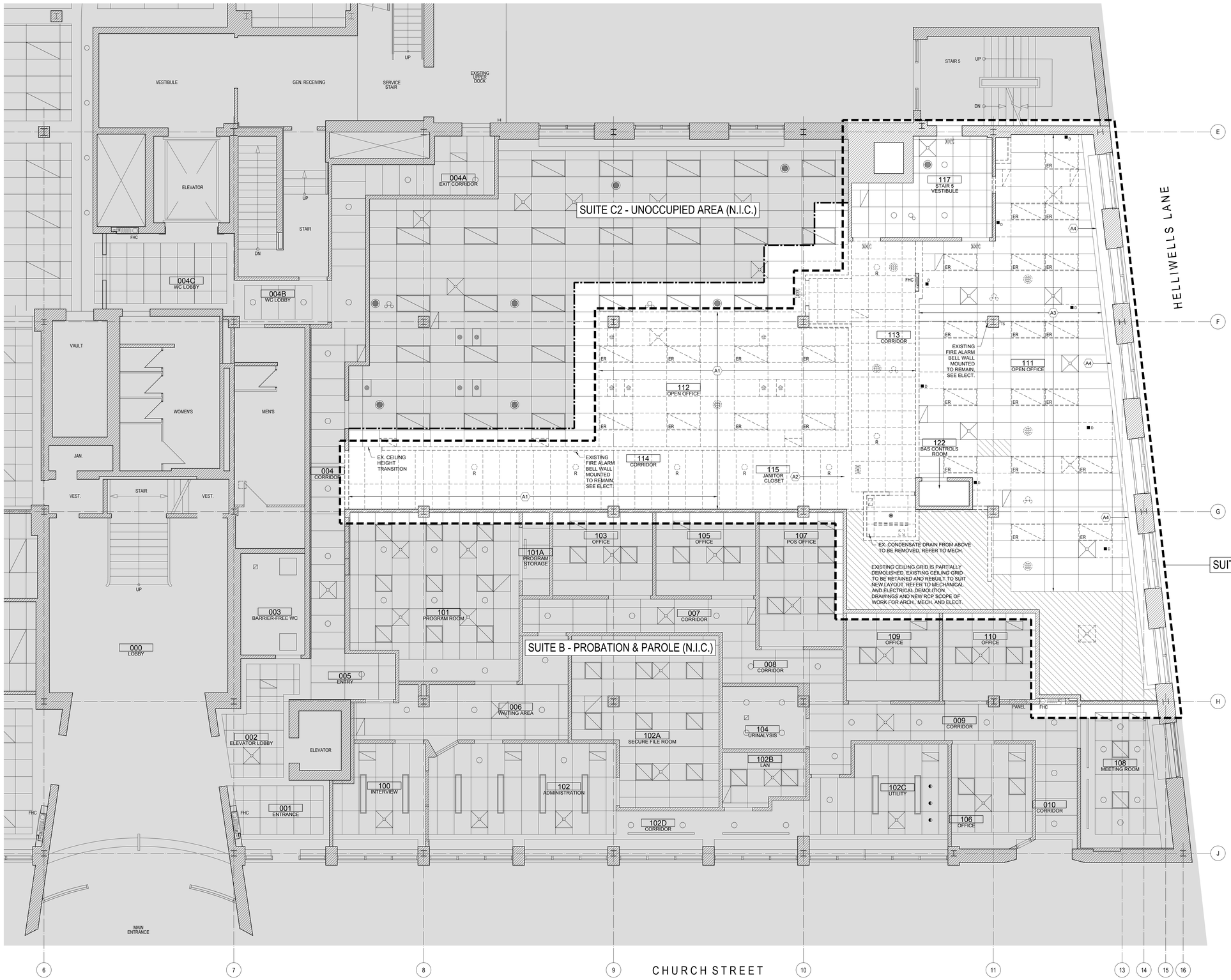


1 A200 DEMOLITION REFLECTED CEILING PLAN - GROUND FLOOR
1:50

## DEMOLITION REFLECTED CEILING PLAN LEGEND

- EXTENT OF NEW HOARDING
- EXTENT OF NEW WORK
- EXISTING PARTITION / WALL TO REMAIN
- EXISTING PARTITION TO BE DEMOLISHED, MGAT
- EXISTING ACOUSTICAL CEILING TILE AND GRID TO BE DEMOLISHED, MGAT. REFER TO DEMOLITION REFLECTED CEILING PLAN NOTES FOR DETAILS.
- EX. FLUORESCENT LIGHT TO REMAIN
- EX. FLUORESCENT LIGHT FIXTURE TO BE RELOCATED
- EX. CEILING TILES/ GRID TO BE MODIFIED, REFER TO NOTE ON PLAN
- EX. SUPPLY AIR DIFFUSERS TO REMAIN, SEE MECH
- EX. DIFFUSERS TO BE REMOVED, SEE MECH
- EX. SPEAKER TO REMAIN, SEE ELECT
- EX. SPEAKER TO BE REMOVED, SEE ELECT
- EX. POT LIGHT TO REMAIN
- EX. POT LIGHT TO BE REMOVED
- EX. EMERGENCY LIGHTS TO REMAIN, SEE ELECT
- EX. EMERGENCY LIGHTS TO BE REMOVED, SEE ELECT
- EX. EXIT SIGN TO BE REMOVED
- EX. RETURN AIR DIFFUSERS TO REMAIN, SEE MECH
- EX. DIFFUSERS TO BE REMOVED, SEE MECH
- EX. WALL MOUNTED THERMOSTAT TO REMAIN, SEE MECH
- EX. DATA DROP TO BE REMOVED, EX. ACT TO BE REPLACED WITH NEW

GENERAL NOTE:
REFER TO MECHANICAL AND ELECTRICAL FOR EXTENT OF ITEMS TO BE REMOVED AND EXISTING TO REMAIN.

## ABBREVIATIONS

| | | | |
|---|---|---|---|
| FHC | - FIRE HOSE CABINET | EX. | - EXISTING |
| ACT | - ACOUSTIC CEILING TILE | ER | - EXISTING TO BE RELOCATED |
| GWB | - GYPSUM WALL BOARD | R | - EXISTING TO BE REMOVED |
| MGAT | - MAKE GOOD ALL TRADES AT JUNCTIONS, TYPICAL | | |

## DEMOLITION REFLECTED CEILING PLAN NOTES

| | |
|---|---|
| A1 | EXISTING ACT CEILING TILE AND GRID TO BE DEMOLISHED. MGAT. |
| A2 | EXISTING GWB BULKHEAD TO BE DEMOLISHED. MGAT. |
| A3 | EXISTING ACT TO BE SELECTIVELY DEMOLISHED AS REQUIRED TO COORDINATE WITH NEW ARCHITECTURAL, MECHANICAL AND ELECTRICAL WORK. |
| A4 | EXISTING GWB BULKHEAD TO REMAIN, PROTECT IN PLACE. |

GENERAL NOTES:

1. PATCH AND MAKE GOOD ALL SURFACES AFFECTED BY DEMOLITION AND PREPARE FOR NEW FINISHES AND CONSTRUCTION.
2. ANY EXISTING CEILINGS AND SERVICES INDICATED AS TO REMAIN THAT HAVE BEEN DAMAGED AS A RESULT OF ANY DEMOLITION WORK, IS TO BE REPLACED WITH NEW.


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DEMOLITION REFLECTED CEILING PLAN – GROUND FLOOR

drawn by / dessine par: ES
designed by / conc par: CEH
approved by / approuve par: JT
bid / offre
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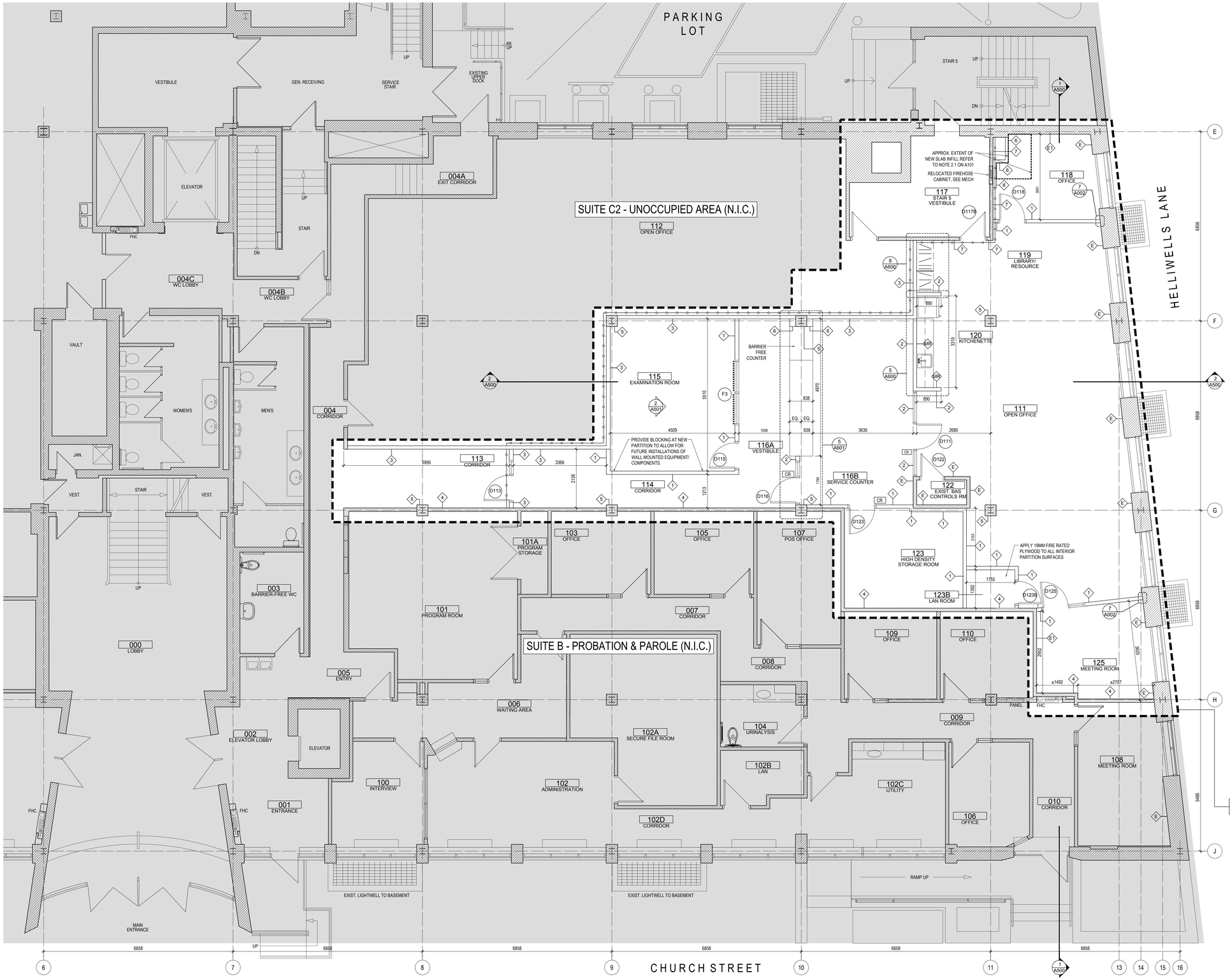


1 A300 NEW PARTITION PLAN - GROUND FLOOR
1:50

## LEGEND

- EXTENT OF SCOPE OF WORK
- EXISTING WALL/PARTITION TO REMAIN
- NEW PARTITION
- SECURITY MESH REQUIRED
- MIRRORED SECURITY FILM REQUIRED
- CR — CARD READER, SEE HARDWARE AND ELECTRICAL
- EXISTING DOOR TO REMAIN
- NEW DOOR

## PARTITION TYPES

| | |
|---|---|
| 1 | TYPICAL PARTITION ASSEMBLY - STC 49, 1HR RATING (ULC DESIGN W453) - TO U/S OF 2ND FL SLAB<br><br>1 LAYER 15.9mm TYPE X GYPSUM WALL BOARD TO BOTH SIDES OF 92mm METAL STUDS (25 Ga STEEL) @ 600mm o/c . CAVITY FILLED WITH 75mm SAFB. JOINTS TO BE FINISHED. |
| 2 | TYPICAL PARTITION ASSEMBLY - 152MM ABOVE CEILING<br><br>1 LAYER 15.9mm GYPSUM DRYWALL TO BOTH SIDES OF 92mm METAL STUDS @ 600mm o/c . TERMINATE 152MM ABOVE CEILING. |
| 3 | TYPICAL NEW PERIMETER PARTITION ASSEMBLY - STC 48 WITH SECURITY MESH - TO U/S OF 2ND FL SLAB<br><br>1 LAYER 15.9mm TYPE X GYPSUM WALL BOARD TO BOTH SIDES OF 92mm METAL STUDS (20 Ga WIDE FLANGE) @ 600mm o/c. MAXIMUM SPACING COMPLETELY FILLED WITH MINERAL FIBRE SOUND ATTENUATION BLANKETS BETWEEN STUDS. PROVIDE SECURITY MESH - MAXIMUM OPENING TO BE 14.3mm WIDTH AND 42.875mm LENGTH; 8.35kg OF UNCOATED WEIGHT PER SQUARE METRE; 63% OPEN AREA - TO PROVIDE A MAXIMUM SECURITY LEVEL. SECURITY MESH TO BE FASTENED TO THE STUDS WITH NON-REMOVABLE OR PROTECTED SCREWS AND CLIPS FOR SECURITY MESH FASTENING @ 600mm o/c VERTICALLY AT EVERY STUD AND 300mm o/c HORIZONTALLY ALONG THE TOP AND BOTTOM STUD TRACK. SECURITY MESH TO BE BUTTED AND STAGGERED HORIZONTALLY AND VERTICALLY. WALL TO TERMINATE AT U/S OF DECK. ACOUSTICALLY SEAL ALL JUNCTIONS.<br>SEE A300 PLAN TO DETERMINE LOCATION OF MESH IN PARTITION ASSEMBLY. |
| 4 | TYPICAL EXISTING PERIMETER PARTITION ASSEMBLY - STC 48 WITH SECURITY MESH - EXTENDS TO U/S OF 2ND FL SLAB<br><br>PATCH, REPAIR AND ACOUSTICALLY SEAL AROUND ALL EXISTING AND NEW PENETRATIONS AND BLEMISHES, TO ACHIEVE A STC RATING OF 48. |
| 5 | EXISTING 1-HOUR COLUMN ENCLOSURE<br><br>ULC DESIGN X521. PATCH AND REPAIR. PAINT FINISH, COLOUR TO LATER SELECTION. |
| 6 | TYPICAL PARTITION ASSEMBLY AT ENCLOSURES - 152MM ABOVE CEILING<br><br>1 LAYER 15.9mm GYPSUM DRYWALL TO ONE SIDE (ROOM INTERIOR) OF 92mm METAL STUDS @ 600mm o/c. |
| 7 | SECURITY MESH AND GYPSUM DRYWALL LAYER - TO U/S OF 2ND FL SLAB<br><br>PROVIDE SECURITY MESH (AMICO ASM. 75-9F OR EQUIVALENT) FASTENED TO EXISTING DRYWALL (INTERIOR ROOM SIDE) WITH NON-REMOVABLE OR PROTECTED SCREWS AND SECURA CLIPS (OR EQUIV.) @ 600mm o/c VERTICALLY AT EVERY STUD AND 300mm o/c HORIZONTALLY ALONG THE TOP AND BOTTOM STUD TRACK. SECURITY MESH TO BE BUTTED AND STAGGERED HORIZONTALLY AND VERTICALLY, TO TERMINATE AT U/S OF DECK. COVER WITH 1 LAYER 15.9mm GYPSUM DRYWALL, TO TERMINATE AT U/S OF DECK. PROVIDE A REVEAL AROUND EXISTING DOOR FRAME WHEN INSTALLING THE NEW SECURITY MESH AND GYPSUM DRYWALL.<br>SEE A300 PLAN TO DETERMINE LOCATION OF MESH IN PARTITION ASSEMBLY. |
| E | EXISTING WALL/PARTITION TO BE PATCHED AND REPAIRED AS REQUIRED. PAINT FINISH, COLOUR TO LATER SELECTION. |
| E1 | CUT EXISTING DRYWALL AND PROVIDE BLOCKING BETWEEN EXISTING STUDS FOR THE FUTURE INSTALLATION OF WALL MOUNTED VIDEO CONFERENCE EQUIPMENT AND/OR OTHER WALL MOUNTED ITEMS BY CLIENT. PROVIDE BLOCKING FROM 610MM TO 213MM A.F.F. AND 1220MM ON EITHER SIDE OF THE CENTER WALL. PATCH AND REPAIR AS REQUIRED. PAINT FINISH, COLOUR TO LATER SELECTION. |
| MR | 15.9MM MOISTURE RESISTANT TYPE X GYPSUM WALL BOARD AT FACE OF INTERIOR ROOM SIDE OF PARTITION ASSEMBLY, IN LIEU OF LAYER OF GYPSUM BOARD TYPE INDICATED AT ASSEMBLY. |

## GENERAL NOTES

1. ALL WALLS TO TERMINATE AT THE U/S OF 2ND FLOOR DECK UNLESS OTHERWISE NOTED.
2. PRIOR TO NEW SCOPE OF WORK INSTALLATION, PATCH, REPAIR AND PREPARE ALL EXISTING SURFACES WHERE EXISTING PARTITIONS/CEILING/FLOORING/COMPONENTS WERE REMOVED. MAKE GOOD ALL TRADES AT JUNCTIONS, TYP.
3. PATCH AND REPAIR TO SEAL OPENINGS/PENETRATIONS CREATED IN NEW OR EXISTING PARTITIONS. APPLY FIRESTOPPING WHERE REQUIRED.
4. NEW PARTITION SUPPLIED AND INSTALLED AT JUNCTIONS OF EXISTING PARTITIONS TO BE MADE SEAMLESS BETWEEN EXISTING AND NEW. EXISTING PARTITIONS TO BE PATCHED, REPAIRED AND PREPARED TO RECEIVED NEW PARTITIONS, CEILINGS, FLOORING AND OTHER APPLICABLE ARCHITECTURAL COMPONENTS.
5. FURNITURE, APPLIANCES AND A/V EQUIPMENT IS BY CLIENT AND NOT IN CONTRACT. SHOWN IN DRAWINGS FOR COORDINATION REFERENCE ONLY.


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NEW PARTITION PLAN
GROUND FLOOR

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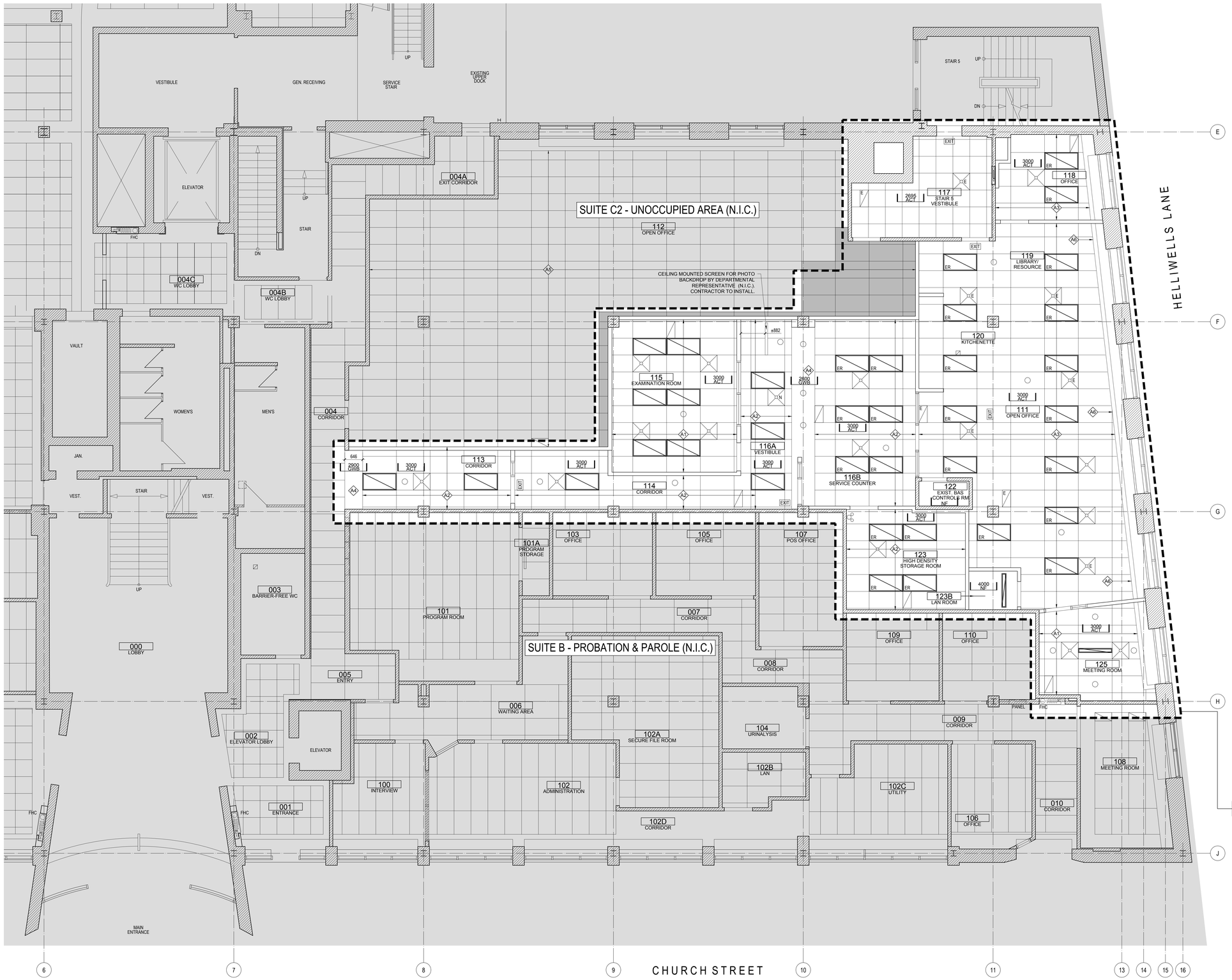


1 A400 NEW REFLECTED CEILING PLAN - GROUND FLOOR
1:50

## NEW REFLECTED CEILING PLAN LEGEND

- EXTENT OF SCOPE OF WORK
- EXISTING WALL/ PARTITION TO REMAIN
- NEW PARTITION
- NEW FLUORESCENT LIGHT FIXTURE (UNLESS OTHERWISE NOTED), SEE ELECT
- CEILING GRID AND TILES TO BE REINSTATED.
- 3000 ACT — NEW CEILING HEIGHT.
- NEW POT LIGHT, SEE ELECT
- NEW EMERGENCY LIGHTS, SEE ELECT
- EXIT — NEW EXIT SIGN, SEE ELECT
- NEW SUPPLY AIR DIFFUSERS (UNLESS OTHERWISE NOTED), SEE MECH
- NEW RETURN AIR DIFFUSERS (UNLESS OTHERWISE NOTED), SEE MECH

GENERAL NOTE:
REFER TO MECHANICAL AND ELECTRICAL FOR EXTENT OF NEW, EXISTING TO REMAIN, AND EXISTING TO BE RELOCATED.

## ABBREVIATIONS

| | | | |
|---|---|---|---|
| NF | - NO FINISH | N.I.C. | - NOT IN CONTRACT |
| FHC | - FIRE HOSE CABINET | | |
| ACT | - ACOUSTIC CEILING TILE | | |
| GWB | - GYPSUM WALL BOARD | | |
| E | - EXISTING | | |
| ER | - EXISTING RELOCATED | | |

## CEILING TYPES

| | |
|---|---|
| A1 | NEW GWB BACKED ACT CEILING TILE AND GRID WITH STC 48 RATING |
| A2 | NEW ACT CEILING TILE & GRID |
| A3 | NEW ACT CEILING TILE WITH SELECTIVE GRID REPAIR WHERE APPLICABLE. |
| A4 | NEW GWB BULKHEAD. |
| A5 | EXISTING TO REMAIN. CUT AND PATCH TO COORDINATE WITH NEW WALLS/PARTITIONS. |
| A6 | PATCH AND REPAIR EXISTING GWB BULKHEAD. |


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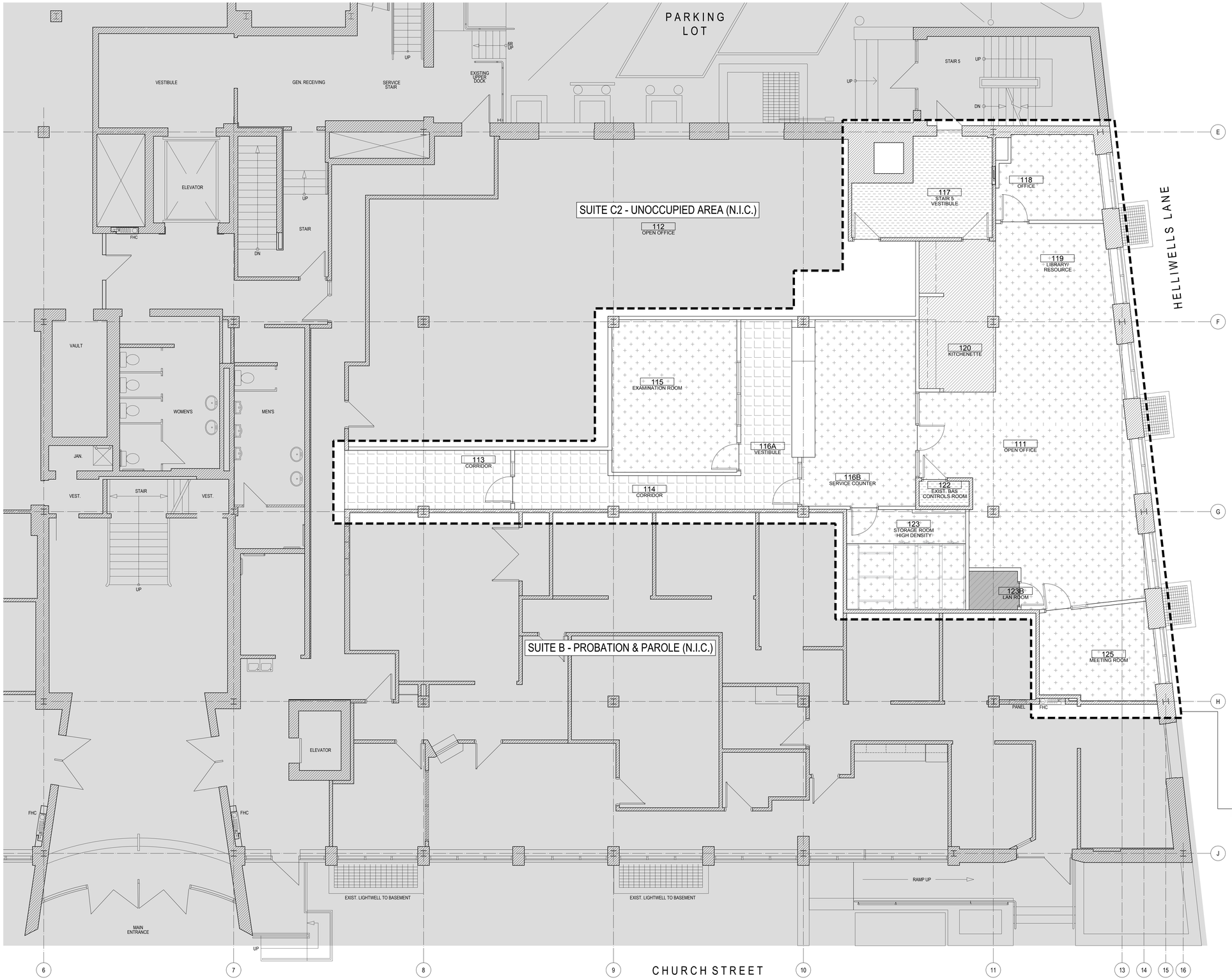


1 A401 FLOOR FINISHES PLAN - GROUND FLOOR
1:50

## FLOOR FINISHES PLAN LEGEND

- CARPET TILE, TO BE INSTALLED WITH TAPE OR TACKABLE TAPE ADHESIVE. GLUE IS NOT ACCEPTABLE AS AN ADHESIVE.
- CERAMIC TILE
- RESILIENT FLOORING - VCT
- RESILIENT FLOORING - STATIC DISSIPATIVE VCT
- EXISTING FLOORING TO REMAIN

## FLOOR FINISHES PLAN NOTES

1. ANY SCUFFS AND/OR DAMAGES INCURRED TO EXISTING FLOORING DURING CONSTRUCTION TO BE REPLACED WITH NEW, TO CORRESPOND WITH THAT OF THE EXISTING BASE BUILDING FLOOR FINISH AT THAT LOCATION.
2. TO LEVEL THE TRANSITION BETWEEN FLOORING TYPES AT THE JUNCTIONS, SUPPLY AND INSTALL A STAINLESS STEEL TRANSITIONAL CAP STRIP AND APPLY A TRANSITION LEVELER STRIP TO BELOW THE THINNER FLOOR FINISH.
3. NEW FLOORING TO BE SUPPLIED AND INSTALLED AT HIGH DENSITY FILING SYSTEM PLATFORM. REFER TO LEGEND AND DRAWING FOR FLOORING TYPE. CONTRACTOR TO COORDINATE INSTALLATION.
4. REFER TO SPECIFICATIONS FOR FURTHER DETAILS OF THE FLOORING REQUIREMENTS.


Public Works and Government Services Canada
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| revision | | date |
|---|---|---|
| 09 | | |
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| 04 | | |
| 03 | | |
| 02 | ISSUED FOR TENDER | 2016.10.11 |
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A Detail No. No. du détail
B drawing no. – where detail required dessin no. – où détail exigé
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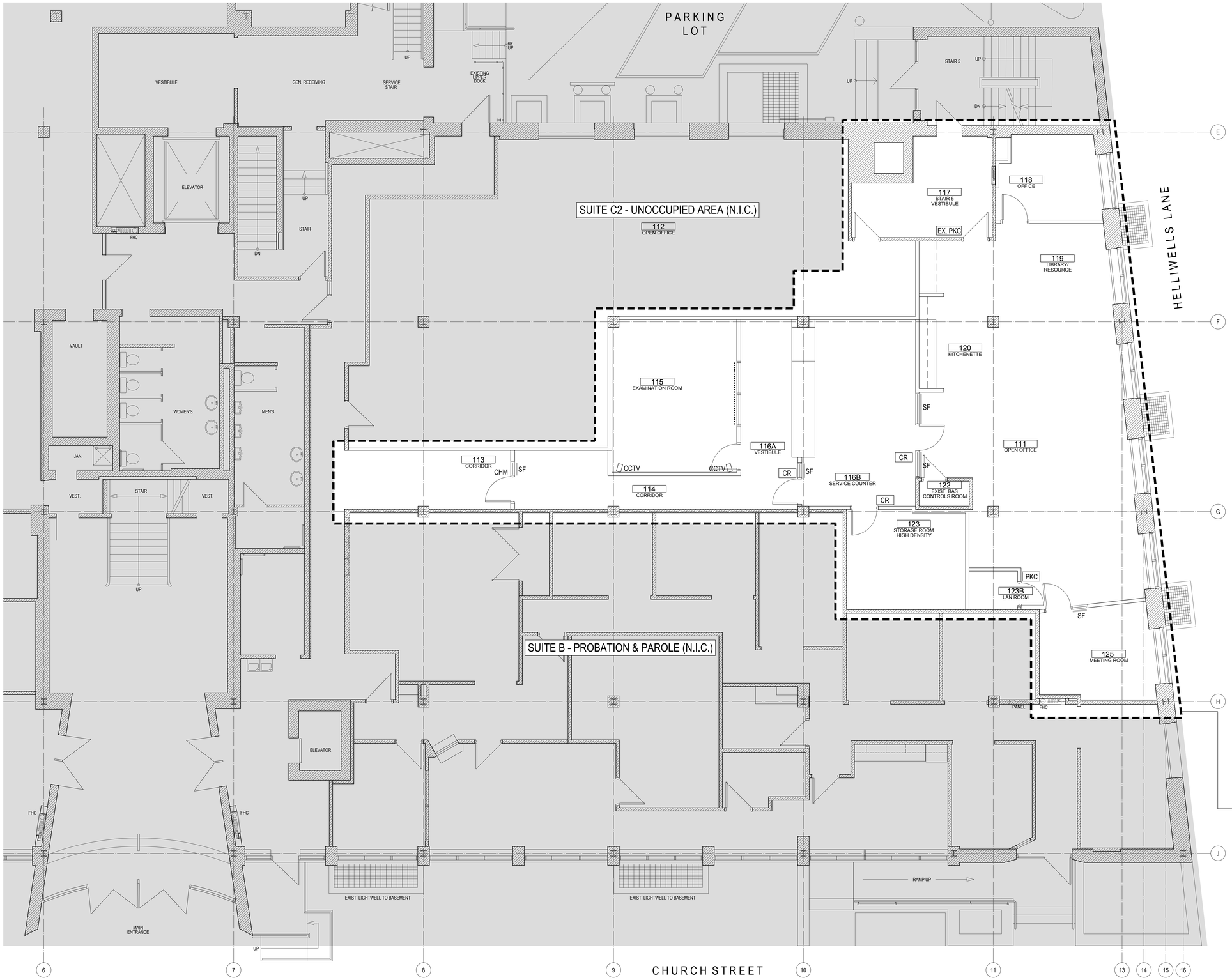
project title / titre du projet
TENANT FIT UP FOR TRANSPORT CANADA
32 CHURCH STREET
ST. CATHARINES, ONTARIO

drawing title / titre du dessin
FLOOR FINISHES PLAN – GROUND FLOOR

drawn by / dessine par: ES
designed by / conc par: CEH
approved by / approuve par: JT
bid / offre
project manager / administrateur de projets
project date / date du projet: 2016.10.11
project no. / no. du projet: R.077633.042
drawing no. / dessine no.: A401




1 A402 SECURITY PLAN - GROUND FLOOR
1:50

## SECURITY PLAN LEGEND

| | |
|---|---|
| CR | CARD READER |
| PKC | PUNCH KEY COMBINATION LOCK |
| EX. PKC | EXISTING PUNCH KEY COMBINATION LOCK |
| | ONE-WAY MIRROR FILM ON INTERIOR GLAZING |
| SF | SECURITY FILM ON INTERIOR GLAZING |
| CCTV | EXISTING CCTV CAMERA BY DEPARTMENTAL REPRESENTATIVE |
| CHM | DOOR CHIME. ALERTS DEPARTMENTAL REPRESENTATIVES AT THE SERVICE COUNTER AREA UPON THE OPENING OF DOOR 113 |

## SECURITY PLAN NOTES

1. SECURITY RELATED ITEMS SHOWN ON THE DRAWING ARE A COMPILATION OF ITEMS THAT ARE SHOWN ON OTHER DRAWINGS.
2. REFER TO ALL APPLICABLE DRAWINGS AND SPECIFICATIONS (INCLUDING ARCHITECTURAL, DOOR HARDWARE, ELECTRICAL) FOR FURTHER DETAILS PERTAINING TO SECURITY RELATED REQUIREMENTS.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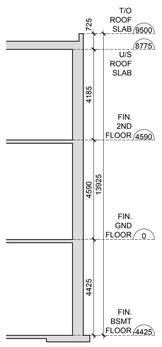
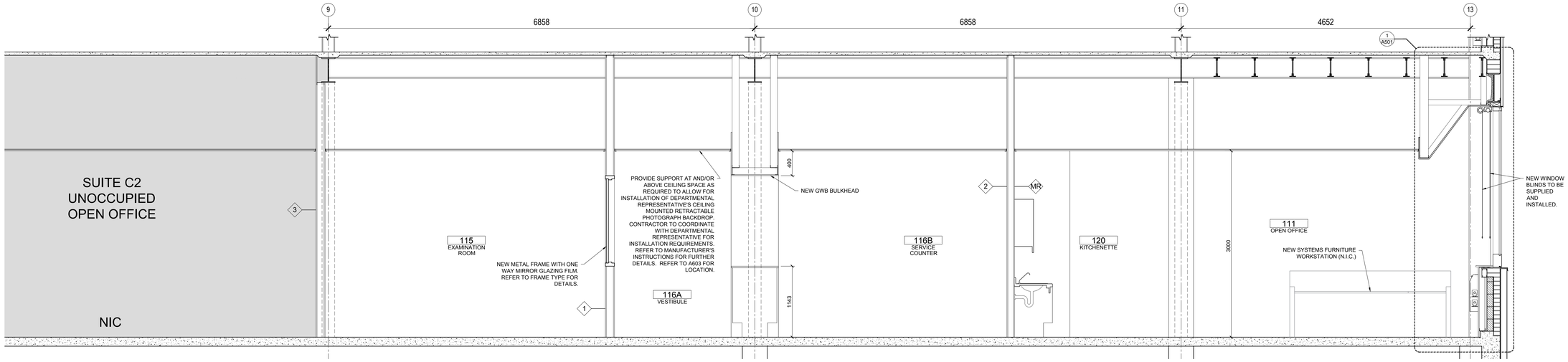
TENANT FIT UP FOR TRANSPORT CANADA
32 CHURCH STREET
ST. CATHARINES, ONTARIO

drawing title / titre du dessin
SECURITY PLAN – GROUND FLOOR

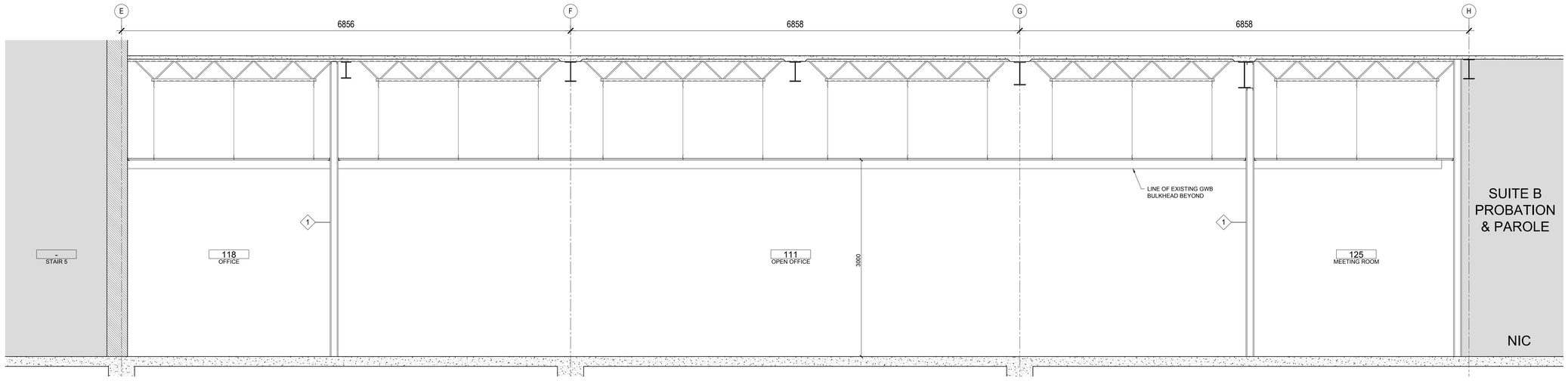
drawn by / dessine par: ES
designed by / conc par: CEH
approved by / approuve par: JT
bid / offre
project manager / administrateur de projets
project date / date du projet: 2016.10.11
project no. / no. du projet: R.077633.042
drawing no. / dessine no.: A402




3 A500 KEY SECTION
1:100




2 A500 SECTION THROUGH OPEN OFFICE LOOKING SOUTH - GROUND FLOOR
1:25




1 A500 SECTION THROUGH OPEN OFFICE LOOKING WEST - GROUND FLOOR
1:25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| 01 | ISSUED FOR COORDINATION | 2016.05.05 |

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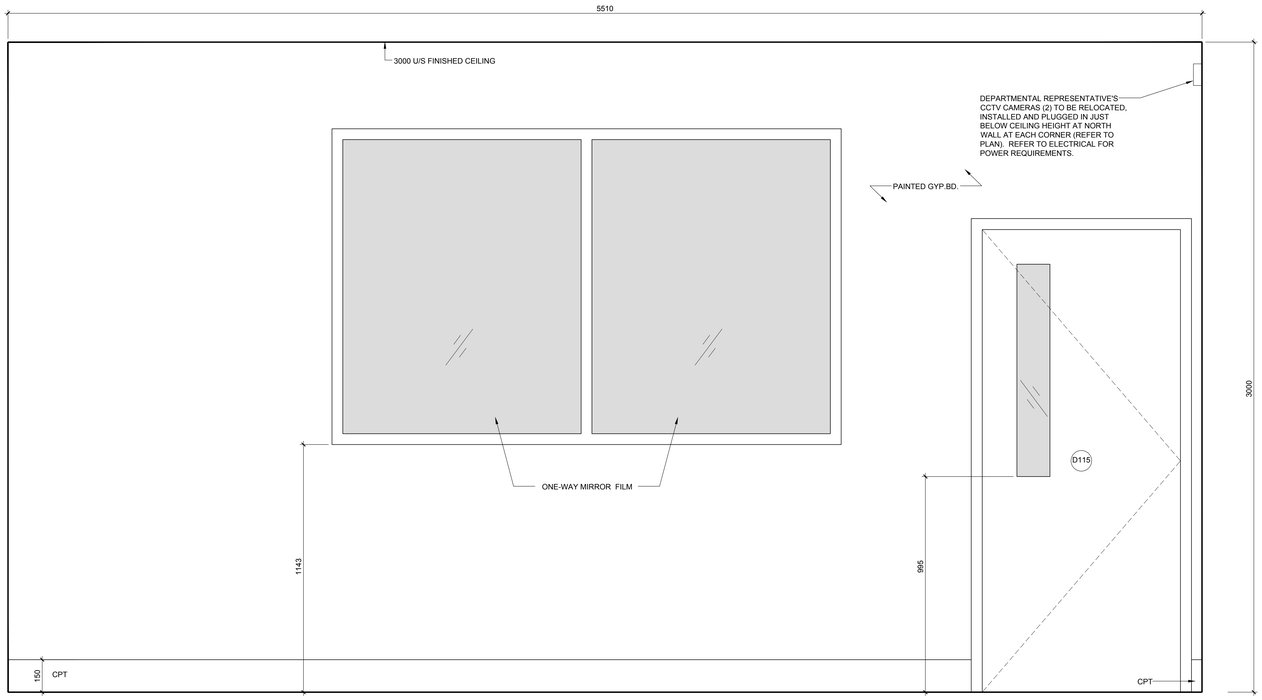
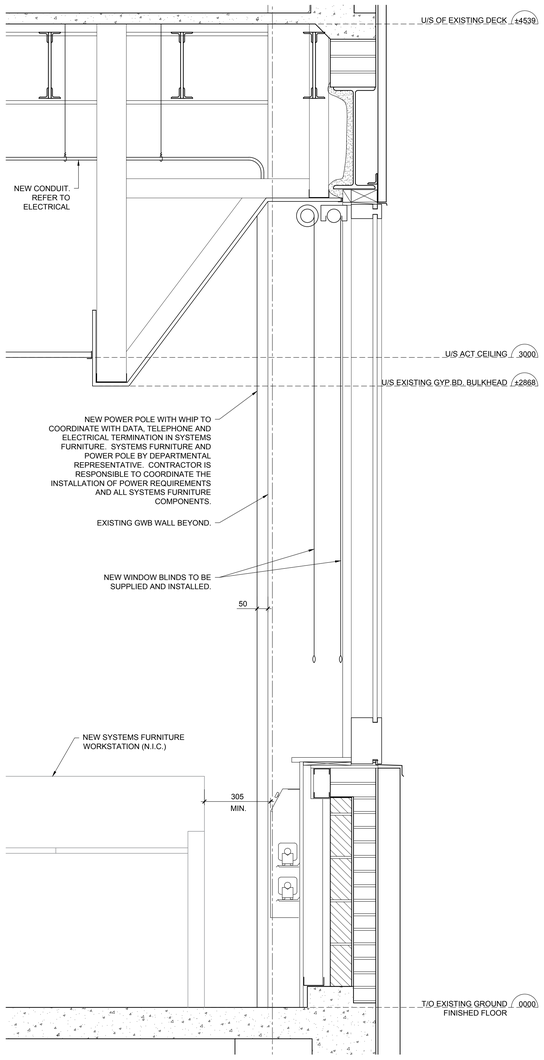
TENANT FIT UP FOR TRANSPORT CANADA
32 CHURCH STREET
ST. CATHARINES, ONTARIO

drawing title / titre du dessin
OVERALL SECTIONS– GROUND FLOOR

drawn by / dessine par: ES
designed by / conc par: CEH
approved by / approuve par: JT
bid / offre
project manager / administrateur de projets
project date / date du projet: 2016.10.11
project no. / no. du projet: R.077633.042
drawing no. / dessine no.: A500




2 A501 INTERIOR ELEVATION - EXAM ROOM (WEST)
1:10




1 A501 WEST EXTERIOR WALL SECTION
1:10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drawing title / titre du dessin
WALL SECTION AND INTERIOR ELEVATIONS – GROUND FLOOR

drawn by / dessiné par: ES
designed by / conc par: CEH
approved by / approuvé par: JT
bid / offre
project manager / administrateur de projets
project date / date du projet: 2016.10.11
project no. / no. du projet: R.077633.042
drawing no. / dessiné no.: A501

04 11

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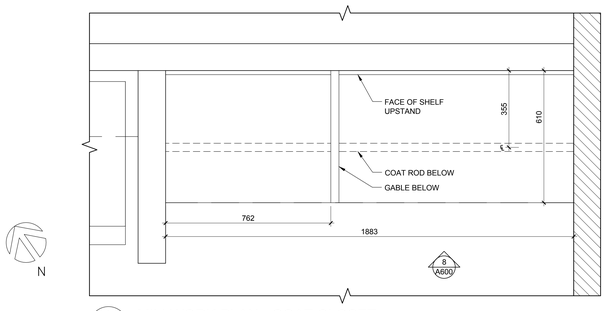
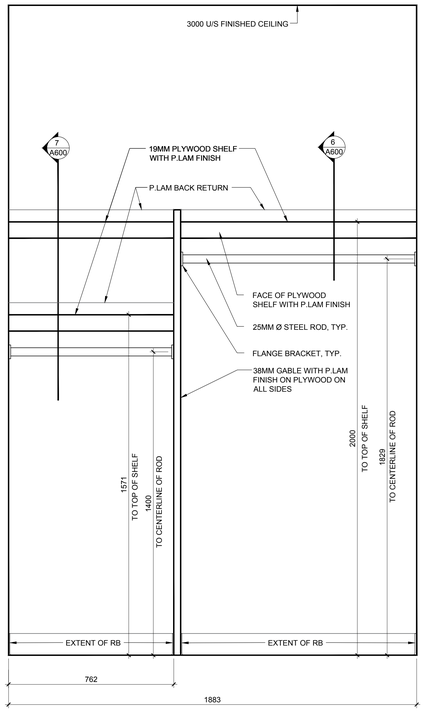
GENERAL NOTE

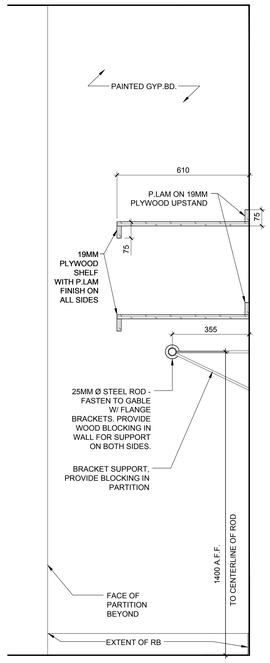
ENSURE BLOCKING IS PROVIDED AT ALL PARTITION LOCATIONS WITH WALL MOUNTED MILLWORK COMPONENTS, TYP.



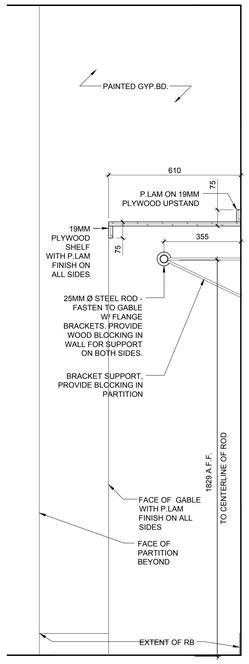

9 A600 MILLWORK PLAN - COAT CLOSET
1:10



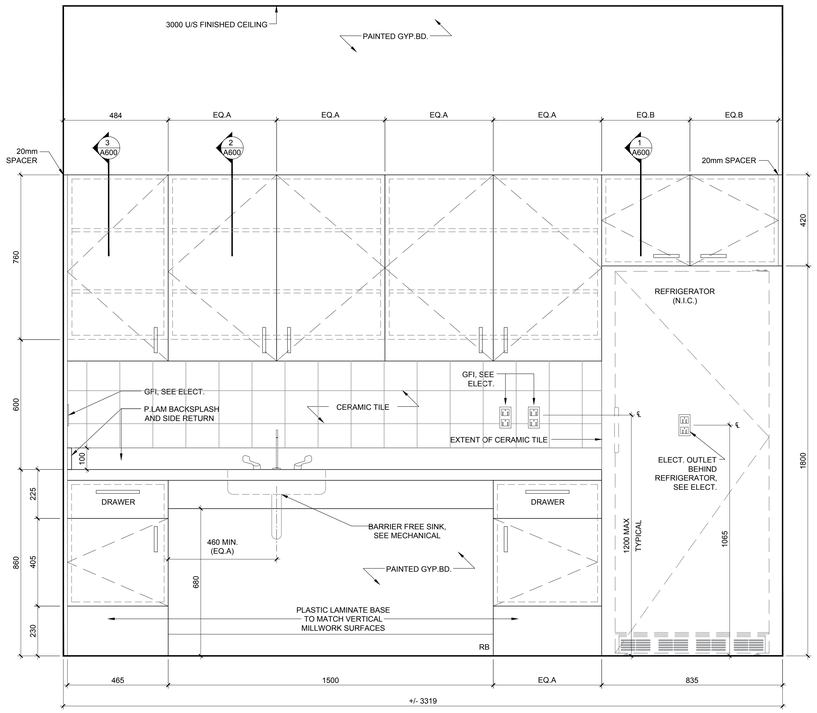

8 A600 MILLWORK ELEVATION - COAT STORAGE
1:10



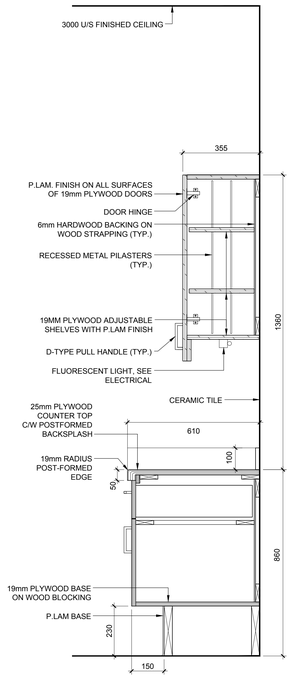

7 A600 MILLWORK SECTION - SHELF & ROD
1:10




6 A600 MILLWORK SECTION - SHELF & ROD
1:10




4 A600 MILLWORK ELEVATION - KITCHENETTE
1:10




3 A600 MILLWORK SECTION - DRAWER UNIT
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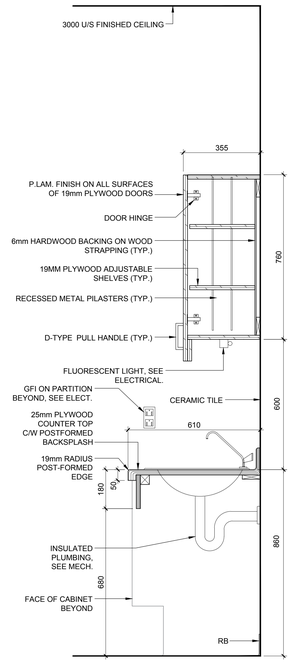


2 A600 MILLWORK SECTION - SINK COUNTER
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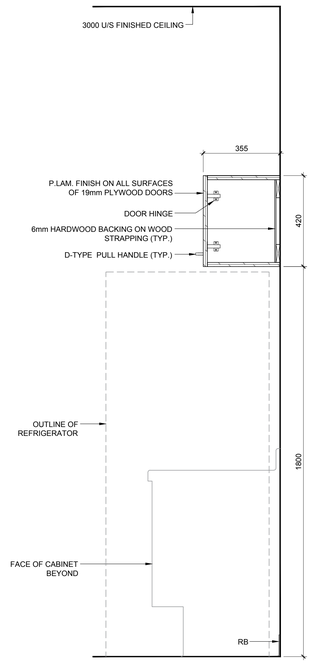


1 A600 MILLWORK SECTION - UPPERS ABOVE REFRIGERATOR
1:10


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TENANT FIT UP FOR TRANSPORT CANADA
32 CHURCH STREET
ST. CATHARINES, ONTARIO

drawing title / titre du dessin
MILLWORK PLANS, SECTIONS AND ELEVATIONS

drawn by / dessine par: ES
designed by / conc par: CEH
approved by / approuve par: JT
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project manager / administrateur de projets
project date / date du projet: 2016.10.11
project no. / no. du projet: R.077633.042
drawing no. / dessine no.: A600

GSC-A0 DATE PLOTTED: YYYY/MM/DD PLOT SCALE: AS SHOWN CAD FILE: S:\PRS\CAD\GROUP\CITY\ADDRESS\PROJECT NO\FILE.DWG

04 11

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**GENERAL NOTE**

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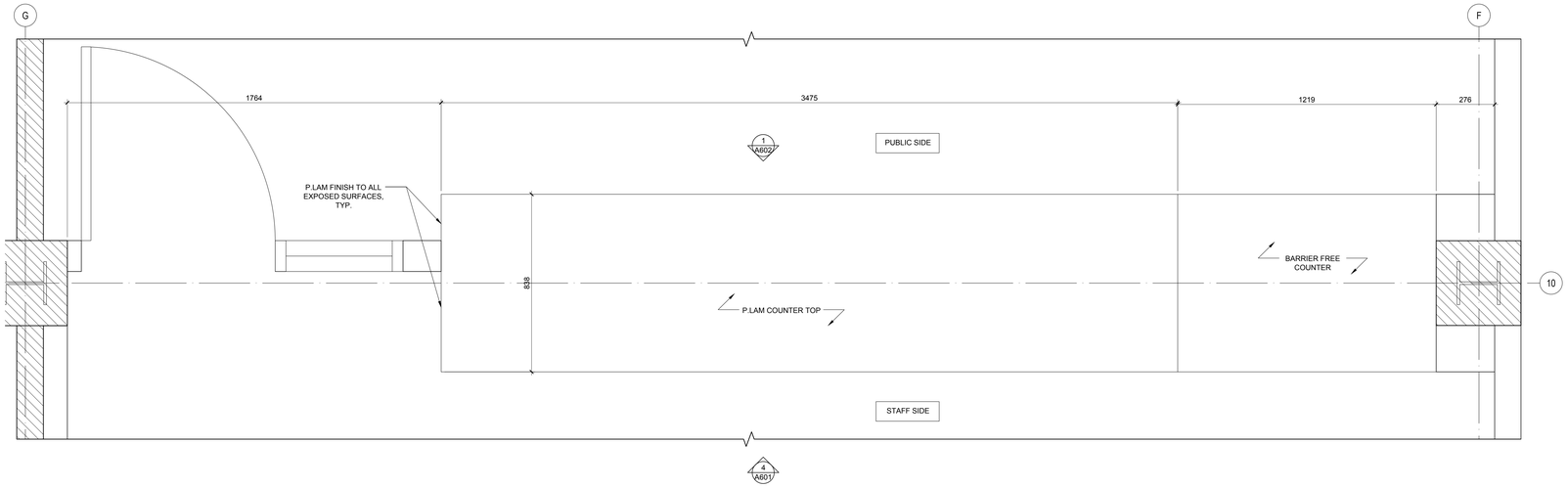
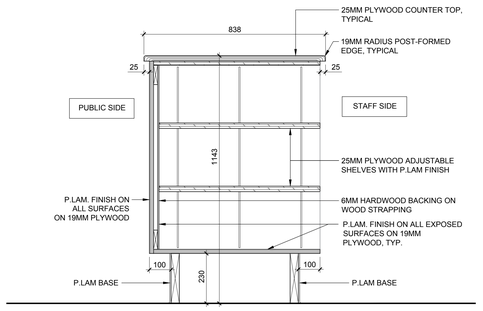
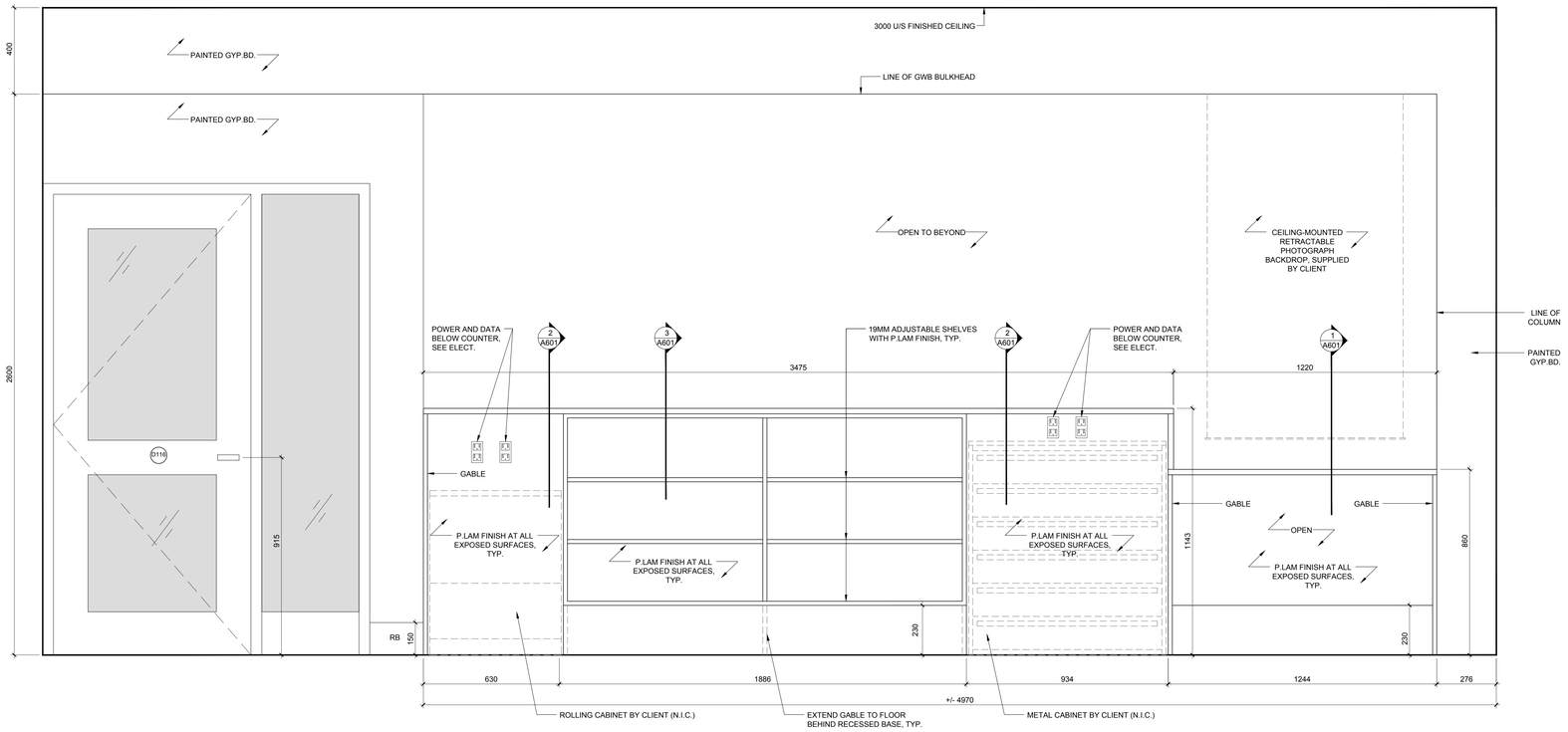


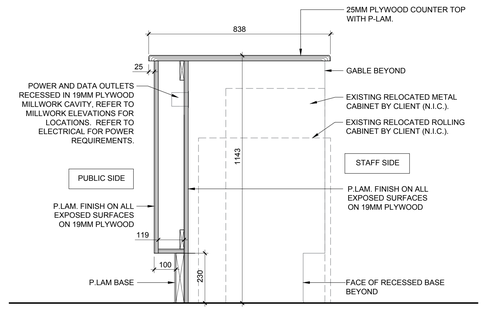

5 A601 MILLWORK PLAN - SERVICE COUNTER
1:10




3 A601 MILLWORK SECTION - SERVICE COUNTER
1:10




4 A601 MILLWORK ELEVATION - SERVICE COUNTER STAFF SIDE
1:10




2 A601 MILLWORK SECTION-SERVICE COUNTER
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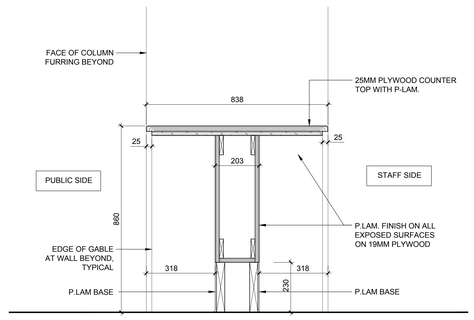


1 A601 MILLWORK SECTION - BARRIER FREE COUNTER
1:10


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32 CHURCH STREET
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MILLWORK PLANS, SECTIONS, ELEVATIONS

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project date / date du projet: 2016.10.11
project no. / no. du projet: R.077633.042
drawing no. / dessine no.: A601

04 11

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## GENERAL NOTE

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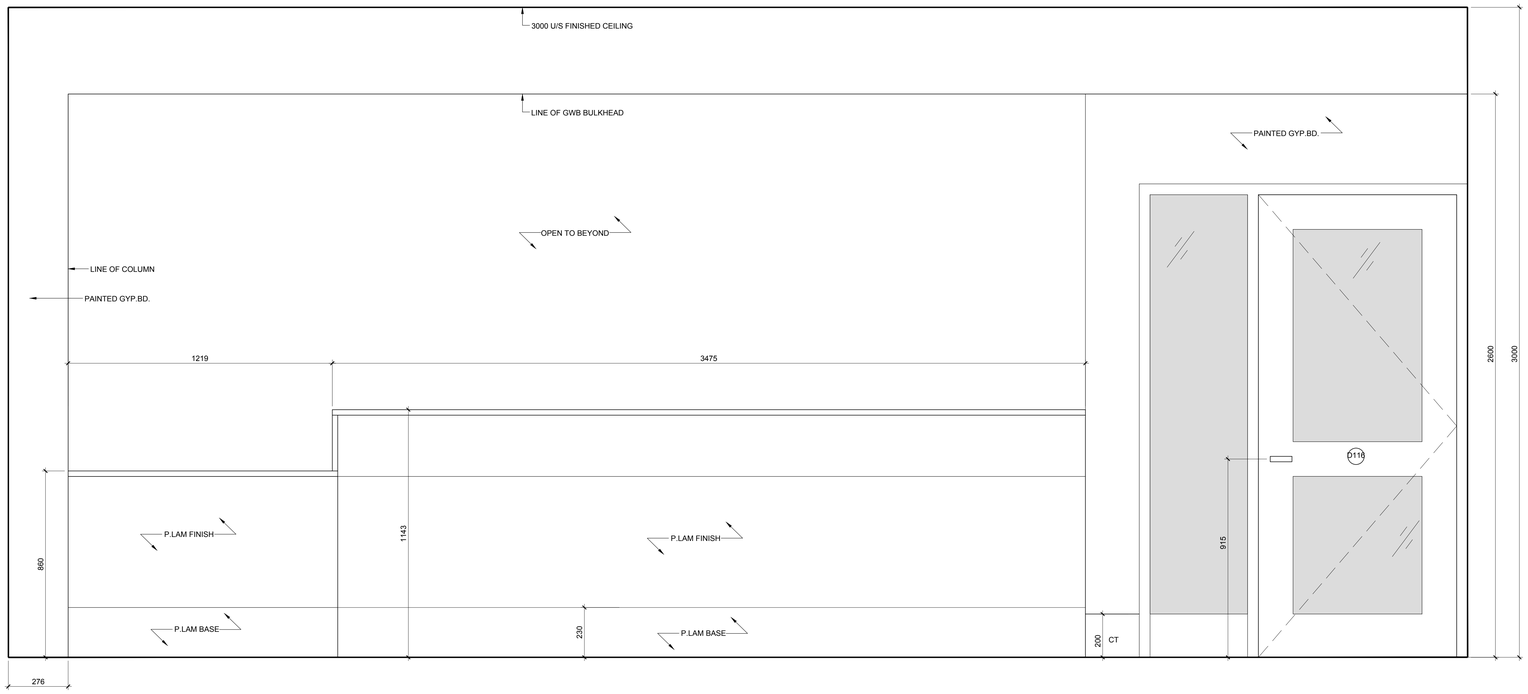


1 A602 MILLWORK ELEVATION - SERVICE COUNTER PUBLIC SIDE
1:10


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drawing no. / dessine no.: A602

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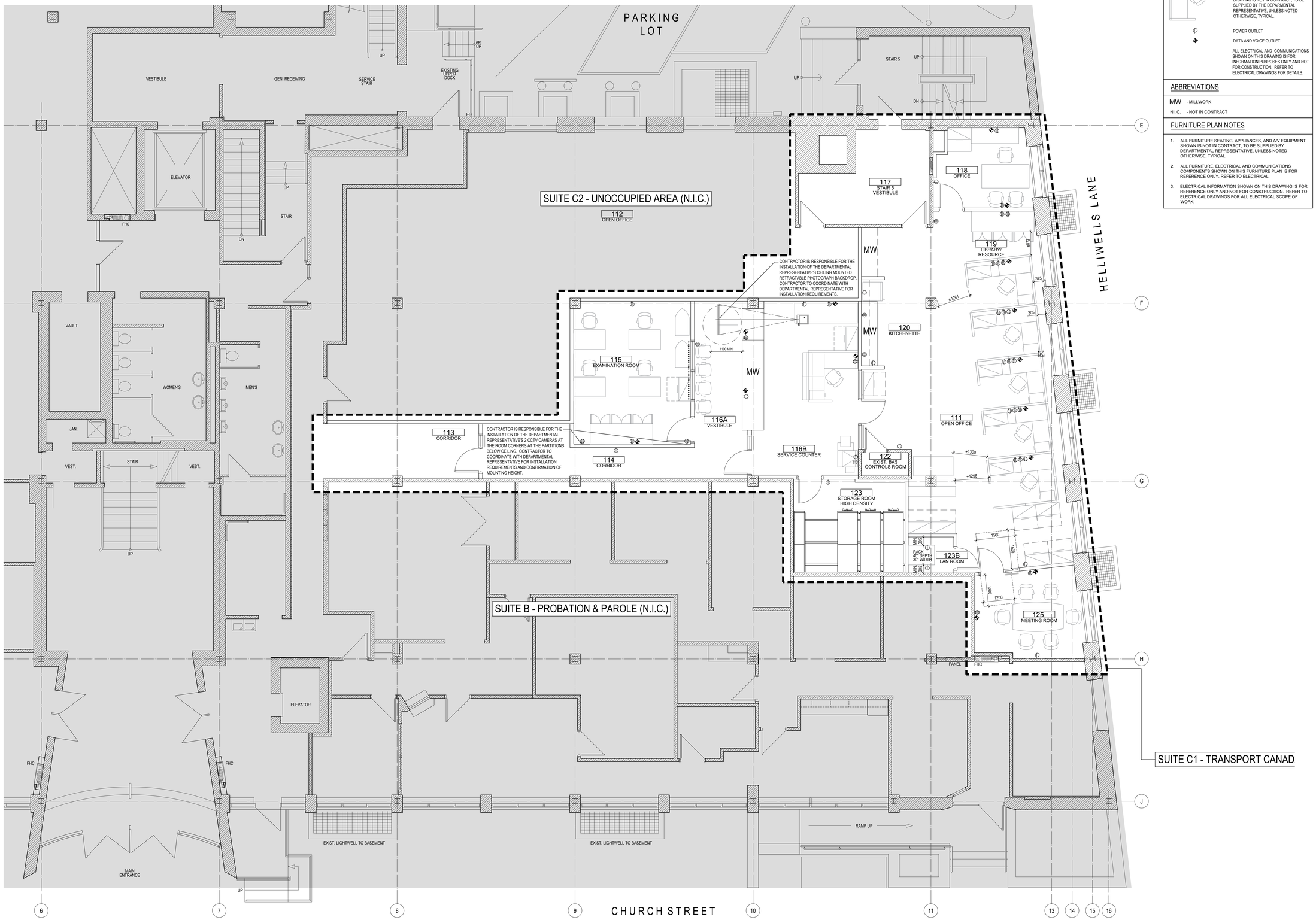


1 A603 FURNITURE PLAN - GROUND FLOOR
1:50

## FURNITURE PLAN LEGEND

WORKSTATION / FURNITURE N.I.C.

ALL FURNITURE, SEATING, APPLIANCES AND A/V EQUIPMENT SHOWN ON THIS DRAWING IS NOT IN CONTRACT, TO BE SUPPLIED BY THE DEPARMENTAL REPRESENTATIVE, UNLESS NOTED OTHERWISE, TYPICAL.

POWER OUTLET

DATA AND VOICE OUTLET

ALL ELECTRICAL AND COMMUNICATIONS SHOWN ON THIS DRAWING IS FOR INFORMATION PURPOSES ONLY AND NOT FOR CONSTRUCTION. REFER TO ELECTRICAL DRAWINGS FOR DETAILS.

## ABBREVIATIONS

MW - MILLWORK

N.I.C. - NOT IN CONTRACT

## FURNITURE PLAN NOTES

1. ALL FURNITURE SEATING, APPLIANCES, AND A/V EQUIPMENT SHOWN IS NOT IN CONTRACT, TO BE SUPPLIED BY DEPARTMENTAL REPRESENTATIVE, UNLESS NOTED OTHERWISE, TYPICAL.
2. ALL FURNITURE, ELECTRICAL AND COMMUNICATIONS COMPONENTS SHOWN ON THIS FURNITURE PLAN IS FOR REFERENCE ONLY. REFER TO ELECTRICAL.
3. ELECTRICAL INFORMATION SHOWN ON THIS DRAWING IS FOR REFERENCE ONLY AND NOT FOR CONSTRUCTION. REFER TO ELECTRICAL DRAWINGS FOR ALL ELECTRICAL SCOPE OF WORK.


Public Works and Government Services Canada
Architectural and Engineering Services
Ontario Region

Travaux publics et Services gouvernementaux Canada
Services d'architecture et de génie
Région de l'Ontario

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| 02 | ISSUED FOR TENDER | 2016.10.11 |
| 01 | ISSUED FOR TENDER REVIEW | 2016.09.02 |

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
TENANT FIT UP FOR TRANSPORT CANADA
32 CHURCH STREET
ST. CATHARINES, ONTARIO

drawing title / titre du dessin
FURNITURE PLAN – GROUND FLOOR

drawn by / dessine par: ES
designed by / conc par: CEH
approved by / approuve par: JT
bid / offre
project manager / administrateur de projets
project date / date du projet: 2016.10.11
project no. / no. du projet: R.077633.042
drawing no. / dessine no.: A603

# GENERAL NOTES :

**1. GENERAL**

1.1. PROVIDE ALL MATERIAL AND LABOUR REQUIRED FOR THE COMPLETION OF THE WORK. BREAKDOWN OF WORK BY TRADE IS FOR GUIDANCE ONLY AND IS NOT NECESSARILY COMPLETE.

1.2. COORDINATE ALL WORK SHOWN ON THE STRUCTURAL DRAWINGS WITH ARCHITECTURAL, MECHANICAL, ELECTRICAL, ALL OTHER DISCIPLINES AND EXISTING CONDITIONS (EXISTING CONDITIONS ARE ASSUMED). REPORT ANY INCONSISTENCIES TO THE DEPARTMENTAL REPRESENTATIVE BEFORE PROCEEDING WITH THE WORK.

1.3. MAKE GOOD ALL EXISTING WORK DISTURBED BY THE SHORING OPERATIONS, EXCAVATION AND OTHER CONSTRUCTION PROCEDURES.

1.4. DO NOT SCALE THESE DRAWINGS.

1.5. SEE ARCHITECTURAL DRAWINGS FOR FIREPROOFING REQUIREMENTS.

**2. CODES AND STANDARDS**

2.1. COMPLY WITH THE REQUIREMENTS OF THE 2015 NATIONAL BUILDING CODE IN FORCE AND THE OCCUPATIONAL HEALTH AND SAFETY ACT AND REGULATIONS FOR CONSTRUCTION PROJECTS.

**3. SUBMITTALS**

3.1. SUBMIT FOR REVIEW BEFORE START OF WORK, 4 COPIES OF SHOP DRAWINGS FOR:
- STRUCTURAL STEEL
- STEEL DECK
- TEMPORARY SHORING

3.2. SUBMIT CONCRETE MIX DESIGNS BEFORE START OF WORK .

3.3. SUBMIT CONCRETE MIX DESIGNS BEFORE START OF WORK .

3.4. SHOP DRAWINGS FOR: STRUCTURAL STEEL SHALL TO BE SIGNED AND SEALED BY A PROFESSIONAL ENGINEER REGISTERED IN ONTARIO.

3.5. REVIEW OF SHOP DRAWINGS IS ONLY FOR GENERAL CONFORMITY WITH STRUCTURAL CONTRACT DOCUMENTS AND SPECIFICATIONS. COMMENTS MADE ON THE SHOP DRAWINGS DURING THIS REVIEW DO NOT RELIEVE THE CONTRACTOR FROM COMPLIANCE WITH THE REQUIREMENTS OF THE STRUCTURAL CONTRACT DOCUMENTS AND SPECIFICATIONS, NOR DO THEY AUTHORIZE ANY CHANGES TO THE CONTRACT. REVIEW OF A SPECIFIC ITEM SHALL NOT INCLUDE REVIEW OF AN ASSEMBLY OF WHICH THE ITEM IS A COMPONENT.

3.6. AFTER REVIEW, SHOP DRAWINGS WILL BE RETURNED TO THE CONTRACTOR STAMPED TO SHOW ONE OF THE FOLLOWING:
- REVIEWED - REVIEWED WITH NO COMMENTS.
- REVIEWED AS NOTED - REVIEWED WITH COMMENTS NOTED ON DRAWING. SUBMIT TWO FINAL RECORD PRINTS AS SOON AS CORRECTIONS ARE MADE.
- REVISE AND RESUBMIT - REVIEWED WITH COMMENTS NOTED ON DRAWING. CORRECT AND RESUBMIT FOR REVIEW.
- REVIEWED FOR IMPACT ON BASE BUILDING STRUCTURE ONLY - PROFESSIONAL ENGINEER STAMPING THE DRAWINGS IS RESPONSIBLE FOR THE STRUCTURAL DESIGN AND CONSTRUCTION REVIEW OF THE WORK SHOWN INCLUDING CONNECTIONS.
- NOT REVIEWED - SHOWS WORK WHICH IS NOT WITHIN THE SCOPE OF STRUCTURAL CONSULTING

3.7. THE DEPARTMENTAL REPRESENTATIVE SHALL STAMP, REVIEW AND APPROVE ALL SUBMITTALS PRIOR TO DISTRIBUTING THEM TO THE CONSULTANT. SHOULD THE CONSULTANT RECEIVE SUBMITTALS NOT REVIEWED BY THE CONTRACTOR, THEY WILL BE RETURNED AS "REVISE AND RESUBMIT".

3.8. CONFORM TO THE REQUIREMENTS OF EACH AUTHORITY THAT HAS REVIEWED THE DRAWINGS. ALLOW A MINIMUM OF 5 WORKING DAYS FOR REVIEW OF EACH SUBMISSION OF SHOP DRAWINGS IN THE DEPARTMENTAL REPRESENTATIVE'S OFFICE. ALLOW MORE TIME WHEN LARGE QUANTITIES OF SHOP DRAWINGS ARE SUBMITTED. SUBMIT IN GENERAL CONFORMITY WITH THE SEQUENCE OF CONSTRUCTION INTENDED. CO_ORDINATE WITH THE CONSULTANT. SHOP DRAWINGS RECEIVED AFTER NOON WILL BE DATE-STAMPED AS RECEIVED THE FOLLOWING WORKING DAY.

3.9. MAKE CORRECTIONS REQUIRED BY PREVIOUS REVIEW BEFORE RESUBMITTING DRAWINGS. CLEARLY INDICATE ALL CHANGES AND ADDITIONS TO PREVIOUS SUBMISSION. DO NOT ADD NEW DETAILS TO DRAWINGS WHICH HAVE BEEN STAMPED AS REVIEWED OR NOTED.

3.10. PROVIDE FINAL RECORD DRAWINGS AFTER ALL CORRECTIONS ARE MADE.

**4. EXISTING STRUCTURE**

4.1. EXISTING STRUCTURAL INFORMATION IS BASED UPON DRAWINGS PREPARED BY R.A. HANRIGHT CONSULTING ENGINEER DATED OCTOBER 1954.

4.2. TAKE ALL PRECAUTIONS NECESSARY TO PROTECT THE EXISTING STRUCTURE DURING CONSTRUCTION.

4.3. UNDERTAKE CHIPPING, CUTTING, CORING, REPAIRS, PATCHING, AND REMOVAL OF DEBRIS. MAKE CUTS WITH THE PROPER SAWS AND BITS WHEN A CLEAN LINE IS REQUIRED.

4.4. EXISTING DRAWINGS CONDITIONS ARE ASSUMED. REPORT ANY VARIATIONS TO THE DEPARTMENTAL REPRESENTATIVE BEFORE PROCEEDING WITH THE WORK.

4.5. MAKE GOOD ONCE STRUCTURAL WORK IS DONE AND REVIEWED.

**5. CONCRETE**

5.1. CONFORM TO CSA A23.1/A23.2 "CONCRETE MATERIALS AND METHODS OF CONCRETE CONSTRUCTION".

5.2. INTERIOR APPLICATIONS:
- CLASS OF EXPOSURE: N
- CEMENT: TYPE GU
- MINIMUM COMPRESSIVE STRENGTH AT 28 DAYS: 30 MPA.
- MAXIMUM WATER/CEMENTING MATERIAL RATIO:- 0.45
- NOMINAL SIZE OF COARSE AGGREGATE: 20MM (3/4").
- SLUMP AT TIME AND POINT OF DISCHARGE: 50MM (2") TO 110MM (4 1/2").

5.3. DRILLED CONCRETE ANCHORS (DCA) TO BE HILTI KWIK BOLTS OR EQUIVALENT. LOCATE REBAR AND OTHER EMBEDMENTS IN CONCRETE FIRST AND ADJUST LOCATIONS OF ANCHORS AS INSTRUCTED BY ENGINEER IF THERE IS A CONFLICT. DO NOT CUT REBAR.

5.4. REINFORCEMENT: USE NEW DEFORMED BAR REINFORCEMENT CONFORMING TO CAN/CSA G30.18 GRADE 400R OR 400W.

5.5. EPOXY_COATED BARS SHALL CONFORM TO ASTM D3963.

5.6. ACCESSORIES, BAR SUPPORTS, AND TIES TO CONFORM TO RISC MANUAL OF STANDARD PRACTICE. PROVIDE EPOXY-COATED CHAIR-BARS AND BOLSTERS AND PLASTIC-COATED TIE WIRES FOR EPOXY-COATED REINFORCING.

5.7. FOR CLASS N CONCRETE, THE MINIMUM CONCRETE COVER TO REINFORCING BARS CLOSEST TO THE CONCRETE SURFACE SHALL BE 30 MM (1 1/4") FOR BEAMS AND COLUMNS, AND 20 MM (3/4") FOR SLABS AND WALLS.

5.8. INCREASE COVER WHERE REQUIRED TO MAINTAIN MINIMUM RAITO OF COVER TO NOMINAR BAR DIAMETER OF 1 FOR CLASS N.

5.9. HEAT CONCRETE AND DELIVER AT A TEMPERATURE BETWEEN +15 C AND +27 C, WHENEVER OUTDOOR TEMPERATURE IS LESS THAN +5 C.

5.10. CURE CONCRETE SURFACES NOT IN CONTACT WITH FORMS BY THE APPLICATION OF A CURING SEALING COMPOUND CONFORMING TO ASTM C309-97, IMMEDIATELY AFTER DISAPPEARANCE OF SURFACE WATER SHEEN.

5.11. ENSURE THAT SLEEVES AND OPENINGS DO NOT IMPAIR THE REQUIRED STRENGTH OF THE MEMBER, AND UNLESS SHOWN ON THE STRUCTURAL DRAWINGS, ARE ACCEPTED BY THE CONSULTANT FOR SIZE, LOCATION, AND REINFORCEMENT BEFORE CONCRETE IS CAST. NO TRADE SHALL CUT HOLES THROUGH EXISTING CONCRETE UNLESS ACCEPTABLE TO THE CONSULTANT.

**6. STRUCTURAL STEEL**

6.1. CONFORM TO CAN/CSA S16-14 "LIMIT STATES DESIGN OF STEEL STRUCTURES".

6.2. FABRICATOR SHALL BE CERTIFIED BY CANADIAN WELDING BUREAU UNDER REQUIREMENTS OF CSA W47.1, DIVISION 1 OR 2.

6.3. PROTECT COMBUSTIBLE MATERIALS AND FINISHES DURING WELDING OPERATIONS.

6.4. MATERIALS:
- WIDE FLANGE SECTIONS: CAN/CSA G40.20-13/G40.21-13, GRADE 350W
- CHANNEL, ANGLES AND PLATES: CAN/CSA G40.20-13/G40.21-13, GRADE 300W
- MACHINE BOLTS: ASTM A307
- HIGH_STRENGTH BOLTS: ASTM A325M
- ANCHOR BOLTS: CAN/CSA G40.20-13/G40.21-13, GRADE 300W
- FABRICATION: CAN/CSA S16-14
- WELDING: CSA W59
- PRIMER PAINT: CISC/CPMA 2_75
- ZINC_RICH PRIMER: CGSB 1_GP_171M
- DRILLED ANCHORS: SEE DRAWINGS

6.5. ALL STRUCTURAL STEEL CONNECTIONS MUST BE DESIGNED BY A PROFESSIONAL ENGINEER RETAINED BY THE CONTRACTOR TO CONFORM TO CAN/CSA S16-14. USE HEADER ANGLES AND HIGH_STRENGTH BOLTS. DESIGN BEAM CONNECTIONS FOR AN END REACTION DUE TO THE UNIFORMLY DISTRIBUTED LOAD CAPACITY OF THE MEMBER UNLESS A GREATER REACTION IS NOTED ON THE DRAWINGS.

6.6. DO NOT SPLICE SECTIONS WITHOUT THE PRIOR ACCEPTANCE OF THE CONSULTANT AND THE SUBMISSION OF PERTINENT SHOP DRAWINGS. ACCEPTED SPLICES WILL BE REQUIRED TO DEVELOP THE SECTION. EACH SPLICE SHALL BE GIVEN A NON_DESTRUCTIVE TEST BY AN INDEPENDENT INSPECTION COMPANY ACCEPTABLE TO THE DEPARTMENTAL REPRESENTATIVE. TESTING SHALL BE AT THE CONTRACTOR'S EXPENSE. EVALUATE RESULTS IN ACCORDANCE WITH CSA W59 AND REPORT TO THE DEPARTMENTAL REPRESENTATIVE.

6.7. APPLY PRIMER PAINT TO ALL STEELWORK, EXCEPT WHERE ZINC_RICH PAINT IS CALLED FOR ON THE DRAWINGS. TOUCH_UP PAINT AFTER ERECTION. SURFACES RECEIVING ZINC_RICH PAINT SHALL FIRST RECEIVE COMMERCIAL BLAST CLEANING.

**7. STEEL DECK**

7.1. DECK:- ASTM A653/A653M, GRADE 230,WIPED COATING ZF75

7.2. ZINC_RICH PAINT: CGSB 1_GP_171M

7.3. DESIGN AND FABRICATE TO CSA S136, 12. DESIGN LOADS ARE GIVEN ON THE DRAWINGS. LIMIT LIVE LOAD DEFLECTION TO 1/360TH OF SPAN.

7.4. COMPOSITE DECK SHALL HAVE EMBOSSMENTS, WHICH ENSURE COMPOSITE ACTION OF STEEL AND CONCRETE. SUBMIT SUBSTANTIATING DATA IF REQUESTED.

7.5. CUT OPENINGS REQUIRED THROUGH DECK BY OTHER TRADES. REINFORCE OPENINGS 150 MM TO 300 MM( (6" TO 12") WIDE WITH 51 X 51 X 4.8 (2" X 2" X 3/16") ANGLE, TACK WELD UNDER FLUTES AT EACH END OF OPENING. FRAME OTHER OPENINGS.

7.6. PROVIDE ALL REQUIRED EDGE STIFFENERS, CLOSURES, REINFORCING SHEET STEEL PLATES AND FLASHING.

7.7. PROVIDE EDGE FORMING FOR CONCRETE SLABS OVER DECK. FASTEN TO DECK.

7.8. PROVIDE REQUIRED FLASHING.

7.9. AFTER ERECTION TOUCH_UP PAINT WITH ZINC_RICH PAINT WHEREVER PROTECTIVE COATING HAS BEEN DAMAGED.

**8. INSPECTION AND TESTING**

8.1. THE CONTRACTOR MUST PROVIDE INSPECTION REPORTS FOR STRUCTURAL STEEL, MASONRY STRENGTH TESTS AND TEST REPORTS FOR CONCRETE. ALL REPORTS MUST BE PREPARED BY AN INDEPENDENT INSPECTION AND TESTING AGENCY.

8.2. MAKE ONE STANDARD TEST FOR EACH 50 CUBIC METRES OF CONCRETE BUT NOT LESS THAN ONE TEST FOR CONCRETE PLACED EACH DAY. PROVIDE A GROUP OF THREE CONCRETE CYLINDERS FOR EACH STANDARD CONCRETE TEST. BREAK ONE CYLINDER AT 7 DAYS.

**9. CUTTING AND CORING**

9.1. CONTRACTOR SHALL CARRY THE PRICE TO RETAIN AN INDEPENDENT TESTING COMPANY TO LOCATE EXISTING REINFORCEMENT AND CONDUIT IN THE AREAS OF PROPOSED OPENINGS AND TO MARK LOCATIONS ON THE SURFACES OF SLABS AND WALLS ON WHICH THE CORES AND CUTS ARE TO BE STARTED. X-RAY CONCRETE UNLESS OTHER METHODS CAN BE SHOWN BY CONTRACTOR TO ACCURATELY LOCATE REINFORCEMENT AND CONDUIT. IF LOCATIONS ARE NOT ACCEPTABLE TO DEPARTMENTAL REPRESENTATIVE, RELOCATE PROPOSED OPENINGS AND REPEAT PROCESS AT NO EXTRA COST TO THE CONTRACT.

9.2. CORING: DO NOT CUT EXISTING REINFORCEMENT AND CONDUIT WHEN CORING EXISTING CONCRETE UNLESS APPROVED IN ADVANCE BY THE DEPARTMENTAL REPRESENTATIVE. SAVE THE COMPLETE LENGTH OF ALL CORES. LABEL EACH CORE WITH LOCATION TAKEN. MAKE ALL CORES AVAILABLE FOR REVIEW BY DEPARTMENTAL REPRESENTATIVE. DISPOSE OF CORES ONLY WITH APPROVAL OF DEPARTMENTAL REPRESENTATIVE.

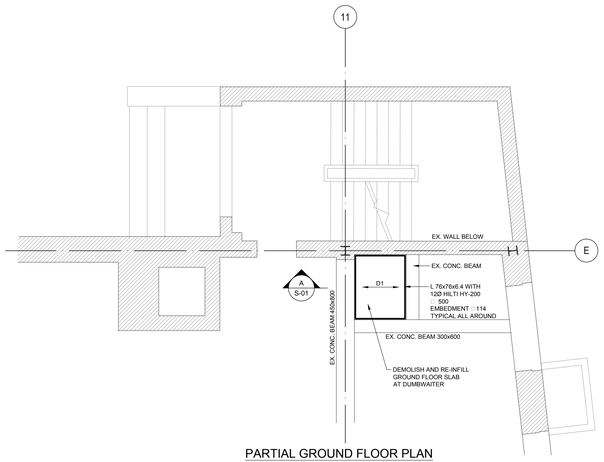
9.3. CUTTING: DO NOT CUT EXISTING REINFORCEMENT AND CONDUIT WHEN CUTTING EXISTING CONCRETE UNLESS APPROVED IN ADVANCE BY THE DEPARTMENTAL REPRESENTATIVE. DO NOT OVER CUT OPENINGS. CORE FOUR CORNERS AND ENDS OF INTERMEDIATE SAWCUTS OF ALL OPENINGS PRIOR TO CUTTING SIDES AND INTERMEDIATE LINES. SAWCUT SIDES AND INTERMEDIATE LINES.CHIP CORNERS SQUARE IF NECESSARY. IF NEW REINFORCEMENT IS REQUIRED AT AN OPENING, INSTALL REINFORCEMENT BEFORE CUTTING OPENING OR SHORE UP STRUCTURE UNTIL NEW REINFORCEMENT IS INSTALLED.

**10. CONSTRUCTION REVIEW**

10.1. NOTIFY THE DEPARTMENTAL REPRESENTATIVE 48H PRIOR TO CONCRETE POURS, BACKFILLING, AND COVERING UP THE STRUCTURE WITH FINISHES.

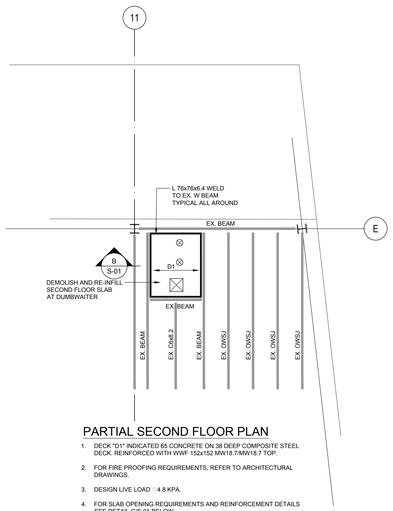
**11. REJECTED WORK**

11.1. DO NOT DELIVER TO THE SITE MATERIALS, WHICH ARE KNOWN NOT TO MEET THE REQUIREMENTS OF THE SPECIFICATIONS. IF REJECTED AFTER DELIVERY, REMOVE IMMEDIATELY FROM SITE.



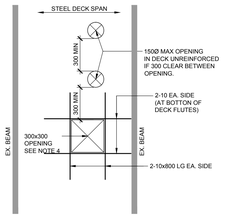

## PARTIAL GROUND FLOOR PLAN

1. DECK "D1" INDICATED 65 CONCRETE ON 38 DEEP COMPOSITE STEEL DECK. REINFORCED WITH WWF 152x152 MW18.7/MW18.7 TOP.
2. FOR FIRE PROOFING REQUIREMENTS, REFER TO ARCHITECTURAL DRAWING A101.
3. DESIGN LIVE LOAD : 4.8 kPa.
4. FOR SLAB OPENING REQUIREMENTS AND REINFORCEMENT DETAILS SEE DETAIL C/S-01 BELOW.




## PARTIAL SECOND FLOOR PLAN

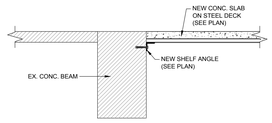
1. DECK "D1" INDICATED 65 CONCRETE ON 38 DEEP COMPOSITE STEEL DECK. REINFORCED WITH WWF 152x152 MW18.7/MW18.7 TOP.
2. FOR FIRE PROOFING REQUIREMENTS, REFER TO ARCHITECTURAL DRAWINGS.
3. DESIGN LIVE LOAD : 4.8 KPA.
4. FOR SLAB OPENING REQUIREMENTS AND REINFORCEMENT DETAILS SEE DETAIL C/S-01 BELOW.




C / S-01 TYPICAL FLOOR DECK OPENING

NOTES :

1. ALL LARGER OPENINGS AND SPACED CLOSER THAN SPECIFIED IN DIAGRAM TO BE FRAMED BY STRUCTURAL STEEL.
2. CUT STEEL DECK FOR THE OPENINGS AFTER CONCRETE REACHES MINIMUM 75 OF SPECIFIED CONCRETE STRENGTH.
3. FOR THE EXACT SIZE OF OPENINGS AND LOCATION, REFER TO MECHANICAL DRAWINGS.
4. THE CONTRACTOR TO COORDINATE THE OPENING SIZES WITH DEPARTMENTAL REPRESENTATIVE (MECHANICAL) PRIOR TO FRAMING THE OPENINGS.
5. IF THE SPACING OF EXISTING MECHANICAL SERVICES THAT PENETRATING THROUGH THE SLAB IS LESS THAN 150mm, ADD 1-10M BETWEEN THE OPENINGS.

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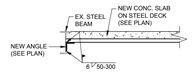


B / S-01
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project title / titre du projet
RENOVATION AND FIT UP FOR TRANSPORT CANADA
32 CHURCH STREET
ST. CATHARINES, ONTARIO

drawing title / titre du dessin
DEMOLISH AND RE-INFILL AT DUMBWAITER GROUND, SECOND FLOOR AND ROOF SLABS

drawn by / dessine par: TCH
designed by / conc par: RYS
approved by / approuve par: _
bid / offre
project manager / administrateur de projets
project date / date du projet: 2016.10.11
project no. / no. du projet: R.077633.042
drawing no. / dessine no.: S-01


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# TENANT FIT-UP FOR
# TRANSPORT CANADA
## THE LAURA SECORD BUILDING
## 32 CHURCH STREET, ST.CATHARINES, ONTARIO
## *PROJECT NUMBER: R. 077633.042*

### LINEWORK DESIGNATION

- NEW WORK
- EXISTING WORK TO REMAIN
- EXISTING WORK TO BE REMOVED AND/OR RELOCATED

### EQUIPMENT LEGEND

- FF– DENOTES FORCE FLOW HEATER
  1 – DENOTES FORCE FLOW HEATER NUMBER
- DIFFUSERS & GRILLES
  A – DIFFUSER TYPE
  B – DENOTES CONNECTION SIZE– mm.
  C – DENOTES AIR FLOW (L/S)
- VAV OR FAN POWERED BOX
  A – UNIT NUMBER
  B – UNIT SIZE– mm.
  C – DENOTES AIR FLOW (L/S)
- A – DENOTES NEW VAV UNIT TYPE – REFER TO SPECIFICATION
  150 – DENOTES AIR QUANTITY – IN L/S MINIMUM
  450 – DENOTES AIR QUANTITY – IN L/S MAXIMUM
- 100 – DENOTES AIR QUANTITY – IN L/S
  A – DENOTES TYPE OF DIFFUSER
  200x150– DENOTES SIZE OF GRILLE – IN MM

### DRAWING LIST

| DWG NO. | DRAWING NAME | SCALE |
|---|---|---|
| M–100 | MECHANICAL LEGENDS, DRAWING LIST, AND SCHEDULES | N.T.S. |
| M–410D | GROUND FLOOR PLAN – HVAC – DEMOLITION | 1:100 |
| M–410 | GROUND FLOOR PLAN – HVAC – NEW | 1:100 |
| M–420 | SECOND FLOOR, ROOF PLANS, SCHEMATIC AND DETAILS | 1:100 |
| M–510 | GROUND FLOOR AND BASEMENT PLANS – PLUMBING & DRAINAGE AND FIRE PROTECTION | 1:100 |
| M–600 | MECHANICAL PHOTOS | N.T.S. |

### GENERAL NOTES:

1. THE SCOPE OF MECHANICAL WORK ASSOCIATED WITH THIS PROJECT IS LIMITED TO WORK SHOWN WITHIN THE RENOVATED AREAS AS INDICATED BY CONSTRUCTION NOTES AND DRAWINGS.
2. PROVIDE NEW DUCT TAKEOFF ON EXISTING DUCTWORK WHERE INDICATED. BLANK OFF ALL UNUSED EXISTING DUCT TAKEOFF. BLANK–OFF SHALL BE AIR TIGHT.
3. CONTRACTOR TO ARRANGE AND PAY FOR CARRYING OUT SCANNING OF THE FLOORS AND X–RAY PRIOR TO MAKING THE OPENINGS. PRIOR TO CARRYING ACTUAL FLOOR OPENING, THE RESULTS SHALL BE REVIEWED BY THE DEPARTMENTAL REPRESENTATIVE. CONTRACTOR TO COORDINATE LOCATION AND SIZES OF OPENING. REFERENCE SHALL BE MADE TO STRUCTURAL DRAWING S–01.
4. LOCATION OF ALL EXISTING SERVICES AND EQUIPMENTS HAVE BEEN SHOWN BASED ON ARCHIVE DOCUMENTS AND SITE MEASUREMENTS. CONTRACTOR SHALL FIELD MEASURE ALL SITE CONDITIONS AND MAKE SUITABLE PROVISIONS DURING TENDER. THE MECHANICAL DRAWINGS DO NOT SHOW ALL THE ARCHITECTURAL AND STRUCTURAL DETAILS. ANY INFORMATION INVOLVING ACCURATE DIMENSIONING OF THE BUILDING SHALL BE TAKEN FROM SITE. MAKE, WITHOUT ADDITIONAL CHARGE, ANY NECESSARY MODIFICATIONS OR ADDITIONS TO THE ROUTING OF DRAINS, PIPES, DUCTS, ETC., TO ACCOMMODATE THE SITE CONDITIONS.
5. CONTRACTOR SHALL BE RESPONSIBLE FOR NOTING EXISTING CONDITIONS DURING SITE WALK THRU & PRE–TENDER SITE VISITS. NO EXTRAS WILL BE PAID FOR WORK RESULTING DUE TO OBVIOUS SITE CONDITIONS . CONTRACTOR SHALL ENSURE THAT ALL NEW INSTALLATION CAN BE PERFORMED TO MEET DESIGN INTENT AGAINST EXISTING CONDITIONS AND DESIGN DRAWINGS. UPON EXAMINING ALL OF THE ABOVE AGAINST THE PLANS, SPECIFICATIONS AND TERMS OF THE CONTRACT, THE CONTRACTOR MUST SATISFY HIMSELF THAT THE PROPOSED INSTALLATION CAN BE CARRIED OUT AS INTENDED TO THE SATISFACTION OF THE DEPARTMENTAL REPRESENTATIVE, AT NO ADDITIONAL COST TO THE DEPARTMENTAL REPRESENTATIVE.
6. ALL EXISTING FAN POWER BOXES & VAV BOXES SHALL BE RE–BALANCED TO MATCH NEW AIR REQUIREMENTS.
7. ANY EXISTING OR NEW DUCTWORK HAVING AN AREA GREATER THAN 620 CM2 (96 IN2) THAT HAVE EITHER DIMENSION GREATER THAN 150 MM (6 IN) THAT PENETRATE AT ANY LOCATION ALONG THE DEMISING WALLS, FLOOR OR CEILINGS OF TRANSPORT CANADA SPACE ARE TO HAVE SECURITY BARS INTERNALLY INSTALLED WITH TAMPER–PROOF SCREWS OR WELDED BOLT HEADS. REFER TO DETAIL 6/M–420.
8. THERMOSTATS AND ON/OFF CONTROLS SHALL BE INSTALLED NOT HIGHER THAN 1200mm FROM THE FINISHED FLOOR.

### VENTILATION LEGEND

- SUPPLY AIR DUCT
- RETURN OR EXHAUST AIR DUCT
- 105 cfm 10"ø–A — DENOTES – SUPPLY 105 cfm THRU TYPE 'A' DIFFUSER c/w 10"ø NECK
- 105 cfm 18x10–B — DENOTES – SUPPLY 105 cfm THRU 18"x10" TYPE 'B' GRILLE
- 105 cfm 18x10–C — DENOTES – RETURN OR EXHAUST 105 cfm THRU 18"x10" TYPE 'C' GRILLE
- A 200/500 — DENOTES – TYPE 'A' V.A.V. BOX 500 cfm MAX. SET POINT 200 cfm MIN. SET POINT
- EF/1, TF/1, SF/1 — FAN DESIGNATIONS
- EX X/500 — DENOTES – EXISTING VAV BOX 500 cfm MAX.SET POINT X: MIN.SET POINT
- ACOUSTIC DUCT LINING
- N — NEW AIR SUPPLY DIFFUSER
- N — NEW R/A GRILLE
- FLEXIBLE DUCT
- U/C — DOOR UNDERCUT
- TAKE–OFF WITH VOLUME DAMPER
- FC — FLEXIBLE CONNECTION
- F or S — FIRE OR SMOKE DAMPER
- FSD — FIRE AND SMOKE DAMPER
- VD — VOLUME DAMPER
- MD — MOTORIZED DAMPER
- SD — SPLITTER DAMPER
- VAV UNIT
- TRANSFER DUCT
- T — NEW OR RELOCATED THERMOSTAT
- AIR NOZZLE

### HEATING & COOLING LEGEND

| | |
|---|---|
| HWS | HEATING WATER SUPPLY |
| HWR | HEATING WATER RETURN |
| CD | CONDENSATE DRAIN |
| RS | REFRIGERANT SUCTION |
| RL | REFRIGERANT LIQUID |
| T Ts | THERMOSTAT/TEMPERATURE SENSOR |
| C | VARIABLE SPEED CONTROLLER |
| T | INDIVIDUALLY CONTROLLED PARTITION MOUNTED THERMOSTAT (EXISTING) |

### ABBREVIATION LEGEND

| | |
|---|---|
| S/A | SUPPLY AIR |
| R/A | RETURN AIR |
| CTE | CONNECT TO EXISTING |
| DN | DOWN |
| ST | STORM |

### VALVES & SPECIALTIES LEGEND

- ISOLATING VALVE
- BALANCE VALVE
- CONTROL VALVE
- CHECK VALVE
- STRAINER
- WALL FIN CONVECTOR
- FHC — FIRE HOSE CABINET
- FE — FIRE EXTINGUISHER

### TRANSFER FAN/EXHAUST FAN SCHEDULE

| SYMBOL | LOCATION SERVED | L/s | MAX. SOUND SONES | E.SP (Pa) | FAN RPM | MOTOR V/PH | MOTOR BHP | MOTOR HP | MANUFACTURER | MODEL NO. | CONTROLS | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| EF–1 | KITCHENETTE 120 | 47 | – | 375 | 2580 | 115/1 | 0.28 | 1/3 | | | ON/OFF | NOTE 1,2 |
| TF–115 | EXAMINATION 115 | 189 | – | 125 | 977 | 115/1 | 0.09 | 1/6 | | | ON/OFF | NOTE 1,3 |
| TF–125 | MEETING RM 125 | 142 | – | 125 | 900 | 115/1 | 0.10 | 1/4 | | | ON/OFF | NOTE 1,3 |

REMARKS:

1. TRANSFER/EXHAUST FAN TO BE INLINE C/W RUBBER IN SHEAR ISOLATORS AND ROD HANGERS
2. EXHAUST FAN TO BE SUPPLIED WITH ON/OFF SWITCH, C/W 2–HOUR TIMER SWITCH. DIV. 23 TO SUPPLY THE SWITCH. SWITCH TO BE WIRED AND INSTALLED BY DIV. 26
3. TRANSFER FAN TO BE SUPPLIED WITH ON/OFF SWITCH, C/W 2–HOUR TIMER SWITCH. DIV. 23 TO SUPPLY THE SWITCH, DIV. 26 TO CARRY OUT THE WIRING AND INSTALLATION.

### PACKAGED SPLIT AIR CONDITIONER SCHEDULE

| TAG NO. | AREA SERVED | AIR FLOW (L/s) | ESP (Pa) | NOMINAL COOLING (KW) | STYLE | BLOWER MODELER V/Ph | BLOWER MODELER MCA | BLOWER MODELER MAX Fuse, A | BLOWER MODELER MODEL | CONDENSER MODELER TAG NO. | CONDENSER MODELER V/Ph | CONDENSER MODELER MCA | CONDENSER MODELER BREAKER SIZE (A) | CONDENSER MODELER MODEL |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| AC–5 | LAN ROOM 123B | 336 | 125 | 6.2 | SPLIT TYPE | 208/1 | * | * | | CD–5 | 208/1 | 18.3 | 20 | |

REMARKS:

1. UNITS TO BE SELF–CONTAINED (STAND ALONE) COMPLETE WITH WALL MOUNTED PROGRAMMABLE THERMOSTAT, SUB BASE, FIRE RATE FLEXIBLE HOSES, AND ISOLATION VIBRATOR.
2. STANDARD OF ACCEPTANCE: APPROVED EQUAL.
3. UNIT TO BE SUPPLIED PRE–CHARGED. CONTRACTOR TO PROVIDE ADDITIONAL REFRIGERANT CHARGE AS REQUIRED.
4. INSTALL AS PER MANUFACTURER INSTRUCTIONS.
5. EACH UNIT REQUIRED SEPARATE ELECTRICAL FEED. ELECTRICAL FEED BY DIV. 26, CONTROL WIRING BETWEEN CONDENSER & EVAPORATOR BY DIV. 23.
6. DISCONNECT FOR CONDENSER & EVAPORATOR BY DIV. 26
7. REFER TO SPECIFICATION 23 81 41
8. INDOOR AC UNIT WEIGHT: 12kg (±5kg)
9. OUTDOOR UNIT WEIGHT: 49kg (±5kg)
10. CONTROL WIRING BETWEEN CONDENSER AND EVAPORATOR BY DIV. 23, RUN CONDUIT AS PER DIV.26 SPECIFICATION.

### VARIABLE AIR VOLUME BOX SCHEDULE

| SYMBOL | INLET SIZE (mm) | AIR FLOW(L/S) DESIGN RANGE MIN. | AIR FLOW(L/S) DESIGN RANGE MAX | SIZE HxW (mm) | MANUFACTURER | MODEL NO. | REMARKS |
|---|---|---|---|---|---|---|---|
| A1 | 125 | 28 | 61 | 305x203 | | | 1,2,3 |
| B1 | 150 | 33 | 80 | 305x203 | | | 1,2,3 |
| C1 | 250 | 135 | 472 | 356x318 | | | 1,2,3 |

REMARKS:

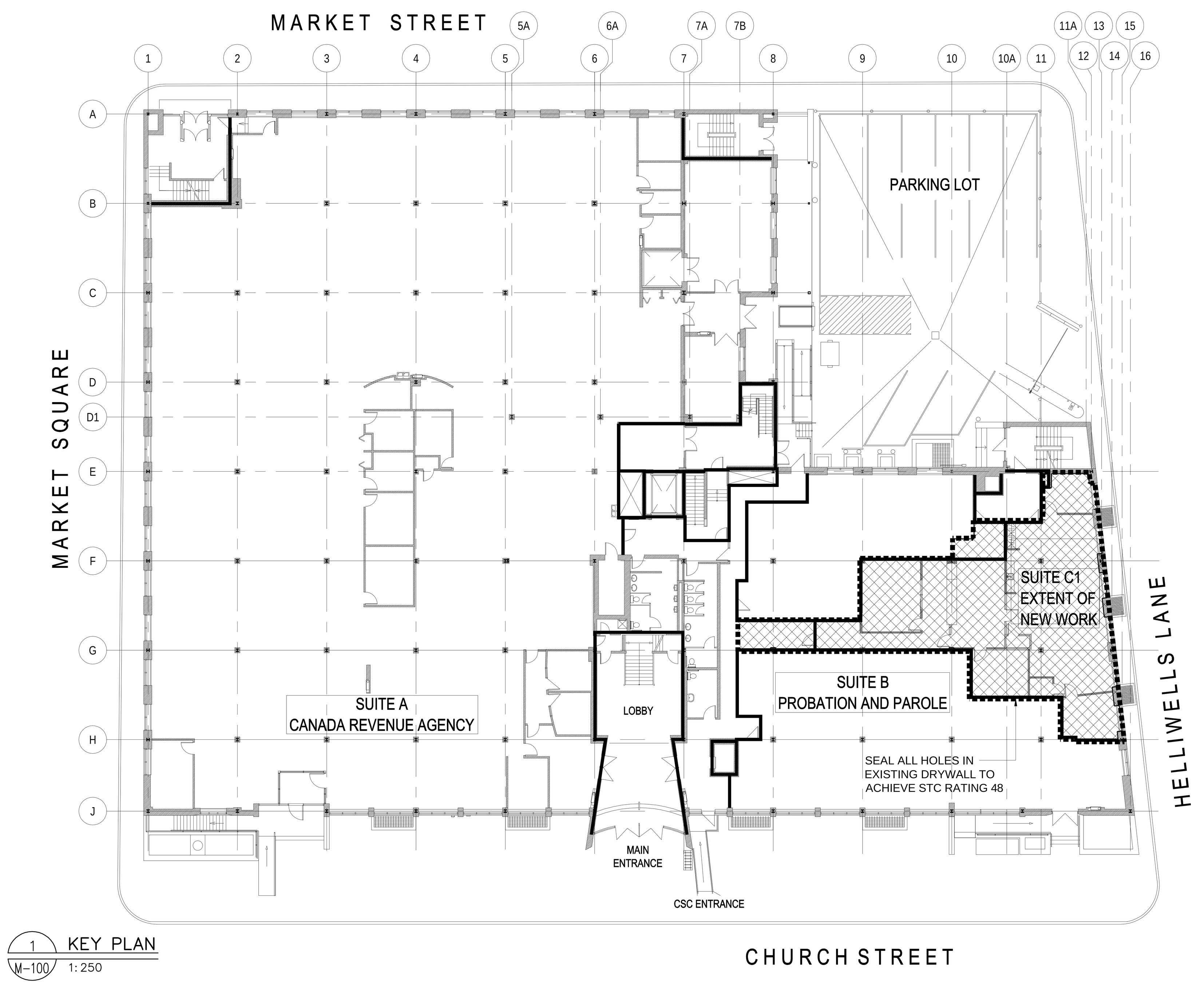
1. ALL VAV BOXES SHALL BE COMPLETE WITH A MINIMUM OF 1000 mm ATTENUATOR.
2. VAV DDC CONTROLS SHALL BE COMPATIBLE WITH EXISTING BUILDING AUTOMATION SYSTEM.
3. ALL BOXES SHALL BE EQUIPPED WITH TEMPERATURE SENSORS AT THE OUTLET OF THE BOX AND SHALL HAVE THE ABILITY TO COMMUNICATE THIS TEMPERATURE WITH THE BAS.

### GRILLE AND DIFFUSER SCHEDULE

| Symbol | Type | Border | Fastening | Damper | Finish Colour | Size | No.of Slots | Specialty | Manufacturer | Model No. | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|
| A | SUPPLY DIFFUSER | – | – | – | – | 600x600 | – | – | | | – |
| B | RETURN GRILLE | – | – | – | – | NOTE 1 | – | – | | | PERFORATED |
| C | FACE RETURN/EXHAUST | – | – | – | – | NOTE 1 | – | – | | | PERFORATED |
| D | S/A LINEAR DIFFUSER | – | – | – | – | NOTE 1 | 1 | – | | | |
| E | DOOR GRILLE | – | – | – | – | NOTE 1 | – | – | | | |

REMARKS:

1. REFER TO DRAWING FOR SIZE.
2. FOR DRY WALL APPLICATION BORDER FRAME TYPE SF, FOR LAY–IN TILE APPLICATION BORDER FRAME TYPE LT.
3. PROVIDE ALUMINUM PLASTER FRAME FOR DRYWALL APPLICATION INSTALLATION. REFER TO MECHANICAL AND ARCHITECTURAL DRAWINGS.
4. FASTENING AS PER ARCHITECTURAL CEILING PLAN.
5. SUPPLY DIFFUSERS TO MATCH EXISTING.




1 KEY PLAN M–100 1:250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| revision | | date |
|---|---|---|
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project title / titre du projet: RENOVATION AND FIT UP FOR FOR TRANSPORT CANADA, 32 CHURCH STREET ST. CATHARINES, ONTARIO

drawing title / titre du dessin: MECHANICAL LEGENDS, DRAWING LIST, AND SCHEDULES

drawn by / dessine par: NA

designed by / conc par: NA

approved by / approuve par: HK

bid / offre — project manager / administrateur de projets

project date / date du projet: 2016.10.11

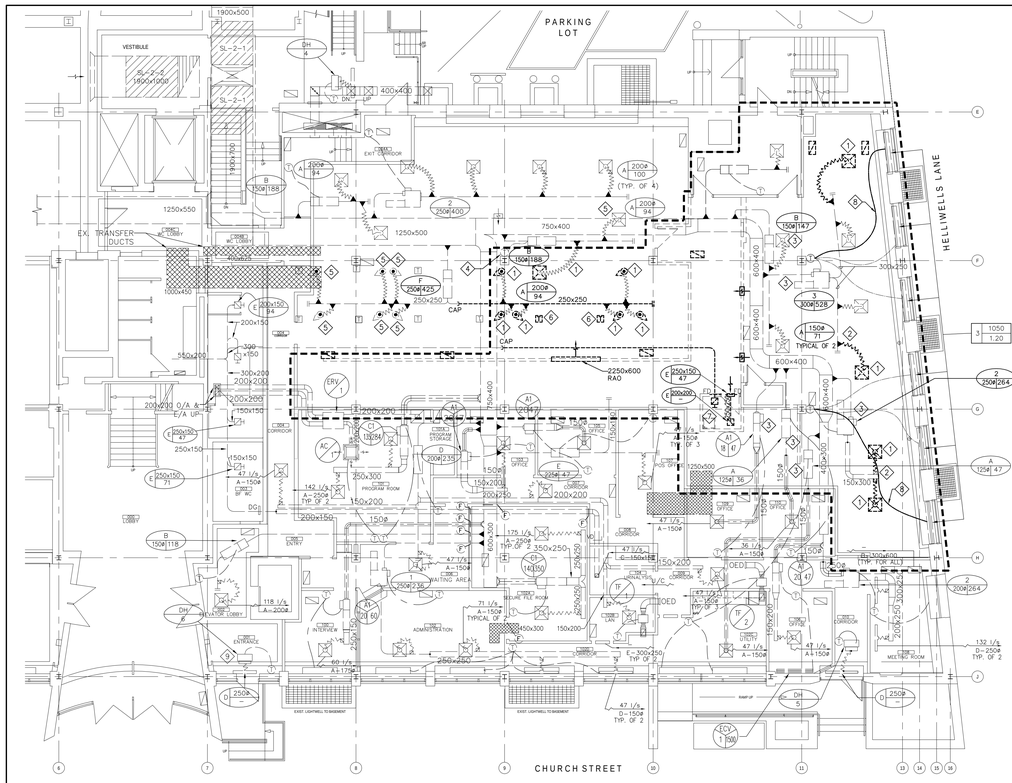
project no. / no. du projet: R.077633.042

drawing no. / dessine no.: M–100

04 11

0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150 160 170 180 190 200 millimetres

THESE DRAWINGS SHALL NOT BE USED AS INDICATION OF AS-FOUND STATUS FOR AREAS OUTSIDE SCOPE OF THIS WORK. DISTRIBUTION SHOWN IS FOR INFORMATION ONLY.




1 GROUND FLOOR PLAN – HVAC – DEMOLITION
M-410D 1:100

## GENERAL NOTES:

1. THE SCOPE OF MECHANICAL WORK ASSOCIATED WITH THIS PROJECT IS LIMITED TO WORK SHOWN WITHIN THE RENOVATED AREAS AS INDICATED ON HATCHED AREAS ON DRAWING M-100 AND THE AREA BEING REFERRED TO BY CONSTRUCTION NOTE 5.
2. MECHANICAL CONTRACTOR SHALL REVIEW THE HAZARDOUS MATERIAL REPORT PRIOR TO DEMOLITION.
3. MECHANICAL CONTRACTOR SHALL ENSURE MOUNTING HEIGHT OF ALL EXISTING THERMOSTATS AND CONTROL TO BE AT MAX. 1200mm FROM FINISHED FLOOR.

## CONSTRUCTION NOTES:

1. REMOVE EXISTING DIFFUSER AND FLEXIBLE CONNECTION. BLANK OFF THE TAKEOFF BRANCH WITH SHEET METAL IF THE EXISTING MAIN DUCT REMAINS.
2. KEEP THE EXISTING BRANCH INLET FOR NEW DUCT CONNECTION.
3. VAV BOX OR FAN POWER BOX TO REMAIN.
4. EXISTING THERMOSTAT TO REMAIN OPERATIONAL, ENSURE WIRING IS NOT DISTURBED WHEN NEW WALL ADDED.
5. AREA NOT CURRENTLY IN SCOPE OF WORK WHICH IS AFFECTED. RE-BALANCE DIFFUSER.
6. REMOVE INDIVIDUALLY MOUNTED PARTITION THERMOSTATS C/W ALL ASSOCIATED MECHANICAL ASSEMBLIES.
7. REMOVE EXHAUST DUCT FOR JANITOR'S.
8. DISCONNECT CONTROL WIRE. REFER TO M-410 FOR RECONNECTION TO NEW THERMOSTAT.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32 CHURCH STREET
ST. CATHARINES, ONTARIO

drawing title / titre du dessin
GROUND FLOOR PLAN – HVAC – DEMOLITION

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designed by / conc par: NA
approved by / approuve par: HK
bid / offre
project manager / administrateur de projets
project date / date du projet: 2016.10.11
project no. / no. du projet: R.077633.042
drawing no. / dessine no.: M-410D

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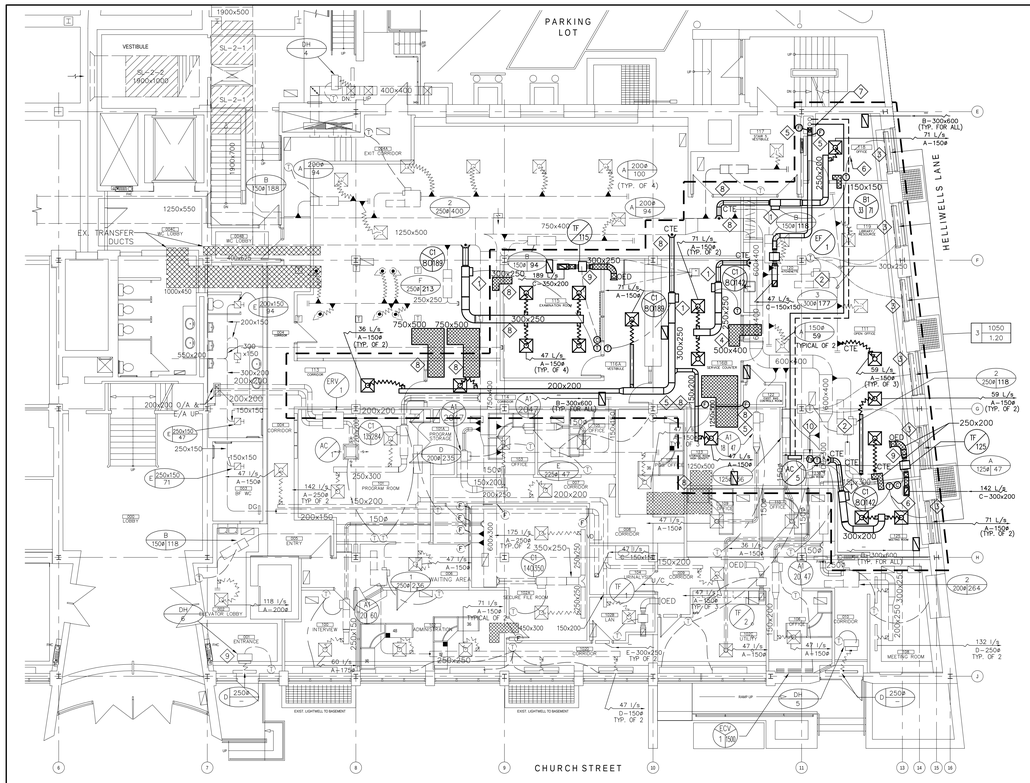



1 GROUND FLOOR PLAN – HVAC – NEW
M-410 1:100

## GENERAL NOTES:

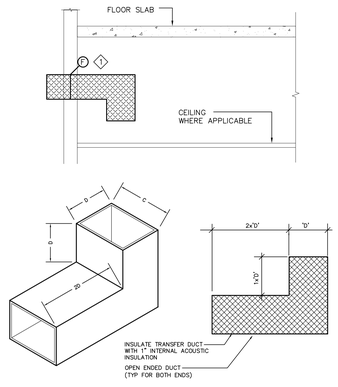
1. LOCATION OF THERMOSTAT AND CONTROLLER TO BE FINALIZED DURING CONSTRUCTION. OBTAIN CONFIRMATION FROM DEPARTMENTAL REPRESENTATIVE.

## CONSTRUCTION NOTES:

1. PROVIDE NEW VAV BOX c/w THERMOSTAT. NEW THERMOSTATS AND CONTROLS SHALL BE INSTALLED AT MAX. 1200mm FROM FINISHED FLOOR.
2. EXISTING FAN POWER BOXES TO OPERATE AS VAV BOX IN OPEN OFFICE 111 AND LIBRARY/RESOURCE 119. TURN OFF POWER TO THE UNIT.
3. EXISTING HYDRONIC WALL FIN CONNECTIONS TO BE FUNCTIONAL AND WORKING AS PER ORIGINAL DESIGN DETAIL (REFER TO DETAIL 9/M-420) INCLUDING CONTROL VALVE AND THERMOSTAT.
4. PROVIDE NEW TRANSFER DUCT. REFER TO DETAIL 2/M-410.
5. PROVIDE FIRE DAMPER C/W ACCESS DOOR.
6. CONNECT CONTROL WIRE TO NEW THERMOSTAT.
7. 200x200 E/A DUCT AND REFRIGERANT PIPES UP. REFER TO STRUCTURAL AND ARCHITECTURAL DRAWINGS FOR DETAIL.
8. PROVIDE SECURITY BAR FOR DUCTS PASSING THE DEMISING PARTITION. REFER TO DETAIL #6 ON DRAWING M-420.
9. PROVIDE NEW TRANSFER FAN c/w TRANSFER DUCT. REFER TO DETAIL 4/M-410. SWITCH C/W TIMER TO BE SUPPLIED BY DIV. 23, DIV. 26 TO PROVIDE WIRING AND INSTALLATION. NEW SWITCH TO BE INSTALLED AT MAX. 1200mm FROM FINISHED FLOOR.
10. PROVIDE A TEMPERATURE SENSOR, BAS TO MONITOR LAN ROOM TEMPERATURE AND ALARM IF ABOVE 30°C (OPERATOR ADJUSTABLE).

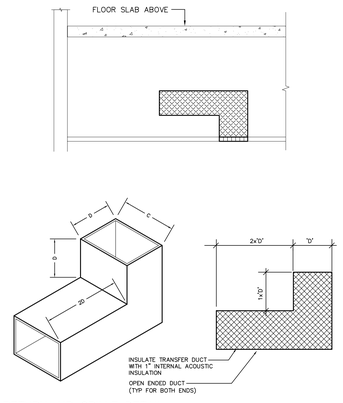
NOTE: REFER TO PLANS FOR SIZE

1 FIRE DAMPER WHERE APPLICABLE

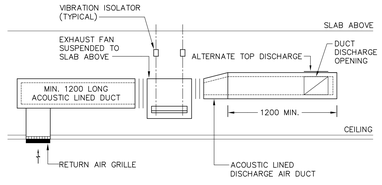



2 TRANSFER DUCT DETAIL
M-410 N.T.S.

NOTE: REFER TO PLANS FOR GRILLE SIZE




3 RETURN AIR GRILLE DETAIL
M-410 N.T.S.




NOTES:

1. REFER TO DRAWING FOR DUCT SIZES.
2. ALL DUCTS SHALL BE LINED WITH MINIMUM 25mm ACOUSTIC LINING.

4 TYPICAL TRANSFER FAN INSTALLATION DETAIL
M-410 N.T.S.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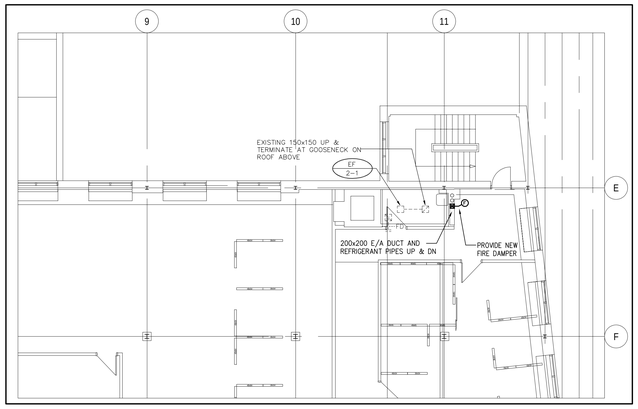
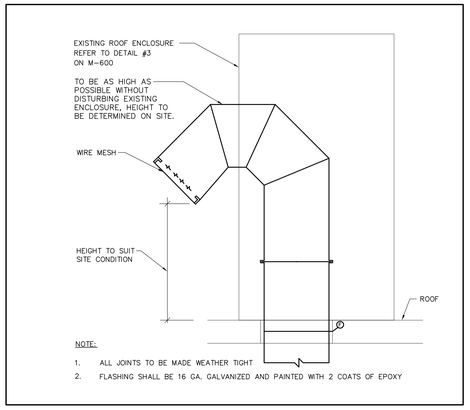


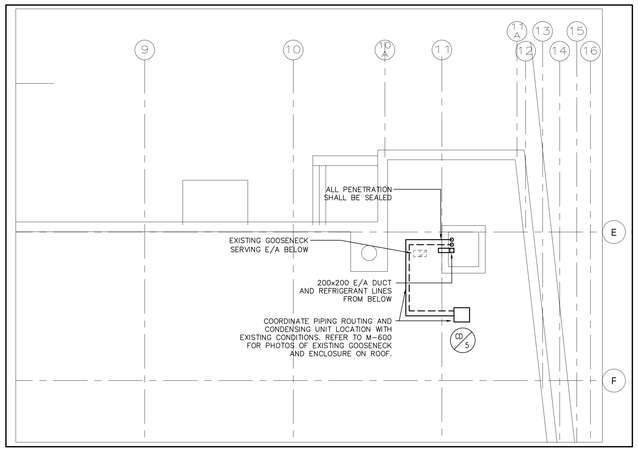

1 SECOND FLOOR PLAN – HVAC DUCTWORK – NEW LAYOUT
M-420 1:100

4 NOT USED
M-420 –

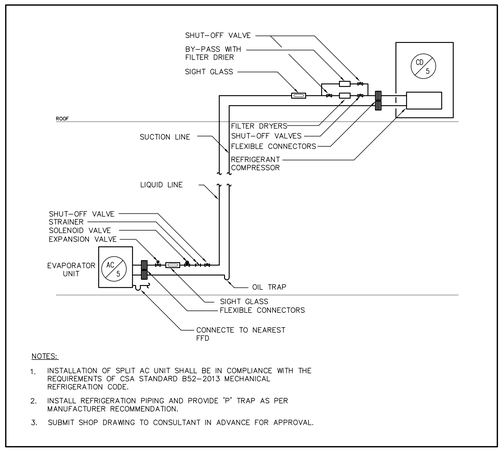
7 NOT USED
M-420 –




8 GOOSENECK INSTALLATION DETAIL
M-420 NTS



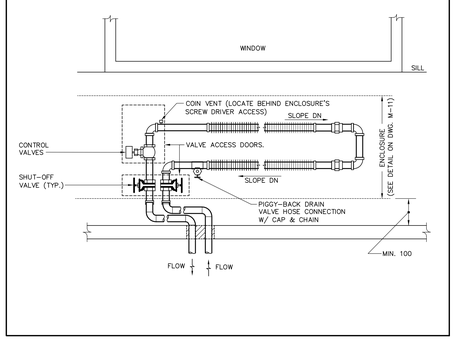

2 ROOF PLAN – HVAC DUCTWORK – NEW LAYOUT
M-420 1:100



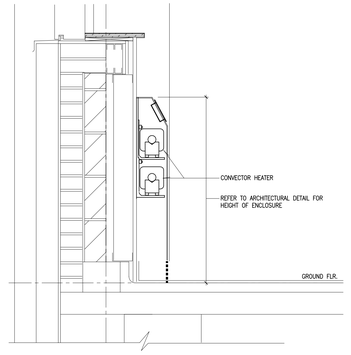

NOTES:
1. INSTALLATION OF SPLIT AC UNIT SHALL BE IN COMPLIANCE WITH THE REQUIREMENTS OF CSA STANDARD B52-2013 MECHANICAL REFRIGERATION CODE.
2. INSTALL REFRIGERATION PIPING AND PROVIDE "P" TRAP AS PER MANUFACTURER RECOMMENDATION.
3. SUBMIT SHOP DRAWING TO CONSULTANT IN ADVANCE FOR APPROVAL.

5 REFRIGERATION PIPING DETAIL BETWEEN CONDENSING UNIT AND D-X COIL
M-420 NTS

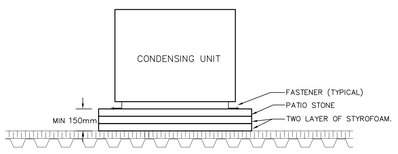
NOTES:
REFERENCE DRAWINGS PRODUCED BY MMM CONSULTING ENGINEERS DATED AUGUST 14, 2000 DWG M-9.




9 EXISTING WALL FIN CONNECTIONS DETAIL (FOR INFORMATION ONLY)
M-420 NTS

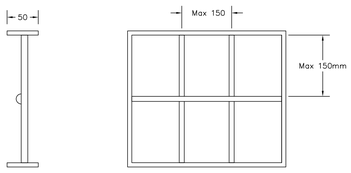



10 CONVECTOR HEATER DETAIL – EXISTING (FOR INFO ONLY)
M-420 NTS



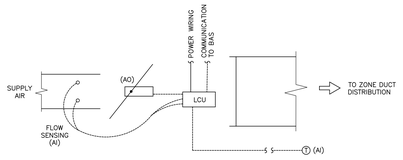

NOTES:
1. INSTALLATION SHALL BE AS PER MANUFACTURER'S INSTRUCTION.
2. TWO LAYER OF STYROFOAM.
3. PATIO STONE.
4. FASTEN TO PATIO STONE

3 CONDENSING UNIT INSTALLATION
M-420 NTS




NOTE:
1. 2"(50mm)X1/4"(6mm) FLAT STEEL FRAME.
2. WELDED CONTINUOUSLY AT CORNERS.
3. 1/4"(6mm) ROUND BARS HORIZONTAL AND VERTICAL.

6 SECURITY BAR DETAIL FOR DUCTWORK
M-420 NTS



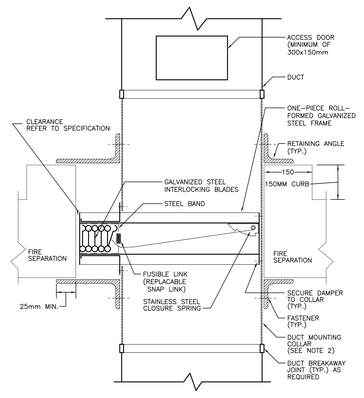

## GENERAL
01. THE ZONE CONTROL EQUIPMENT SHALL START AND STOP BASED ON A TIME OF DAY SCHEDULE.
02. TIME DELAYS ON THE DIGITAL OUTPUTS SHALL PREVENT THE EQUIPMENT FROM SHORT CYCLING.
03. THE VAV DAMPER SHALL BE NORMALLY OPEN.
04. FOR GENERAL AREAS THE MINIMUM VAV BOX AIR VOLUME SETTING SHALL BE 25%. FOR MEETING ROOMS THE MINIMUM AIR VOLUME SETTING SHALL BE 40%.

## SAFETIES AND LIMITS
01. THE MINIMUM AND MAXIMUM AIR VOLUME SETTINGS FOR THE VAV BOX SHALL BE CONTROLLED BY THE LCU.

## SETPOINT AND CONTROL
01. WHEN IN OCCUPIED MODE AND THE SPACE TEMPERATURE IS ABOVE SETPOINT, THE VAV DAMPER SHALL BE MODULATED TO MAINTAIN THE SPACE TEMPERATURE TO SET POINT.
02. WHEN IN OCCUPIED MODE THE VOLUME OF AIR SUPPLIED TO THE ZONE SHALL BE REGULATED VIA THE VELOCITY SENSOR ON THE INLET OF THE VAV BOX.

## ALARMS
AN ALARM SHALL BE ACTIVATED WHEN:
1. THE SPACE TEMPERATURE IS BELOW 15.5°C (60°F).
2. THE SPACE TEMPERATURE IS ABOVE 26.7°C (80°F).

11 STANDARD VAV BOX CONTROL
M-420 NTS




NOTES:
1. ASSEMBLY SHALL BE IN ACCORDANCE WITH UL555 AND INSTALLATION IN ACCORDANCE WITH NFPA 90A
2. DUCT MOUNTING COLLAR SHALL BE OF THE SAME GAUGE OR HEAVIER AS THE DUCT BUT SHALL NOT BE LIGHTER THAN 20 GAUGE.
3. CLEARANCE SHALL BE 3mm(1/8") PER 300mm(12") ON HEIGHT AND WIDTH OF DAMPER TO A MAXIMUM OF 12mm(1/2").

12 DUCT PENETRATION THROUGH FLOOR c/w FIRE DAMPER
M-420 NTS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12356.107


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PROJECT NORTH

| revision | | date |
|---|---|---|
| 04 | ISSUED FOR TENDER | 2016-10-11 |
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| 02 | ISSUED FOR 99% SUBMISSION | 2016-07-26 |
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project title / titre du projet
RENOVATION AND FIT UP FOR
FOR TRANSPORT CANADA
32 CHURCH STREET
ST. CATHARINES, ONTARIO

drawing title / titre du dessin
SECOND FLOOR PLAN, ROOF PLAN, SCHEMATIC & DETAILS

drawn by / dessine par: NA
designed by / conc par: NA
approved by / approuve par: HK
bid / offre
project manager / administrateur de projets
project date / date du projet: 2016.10.11
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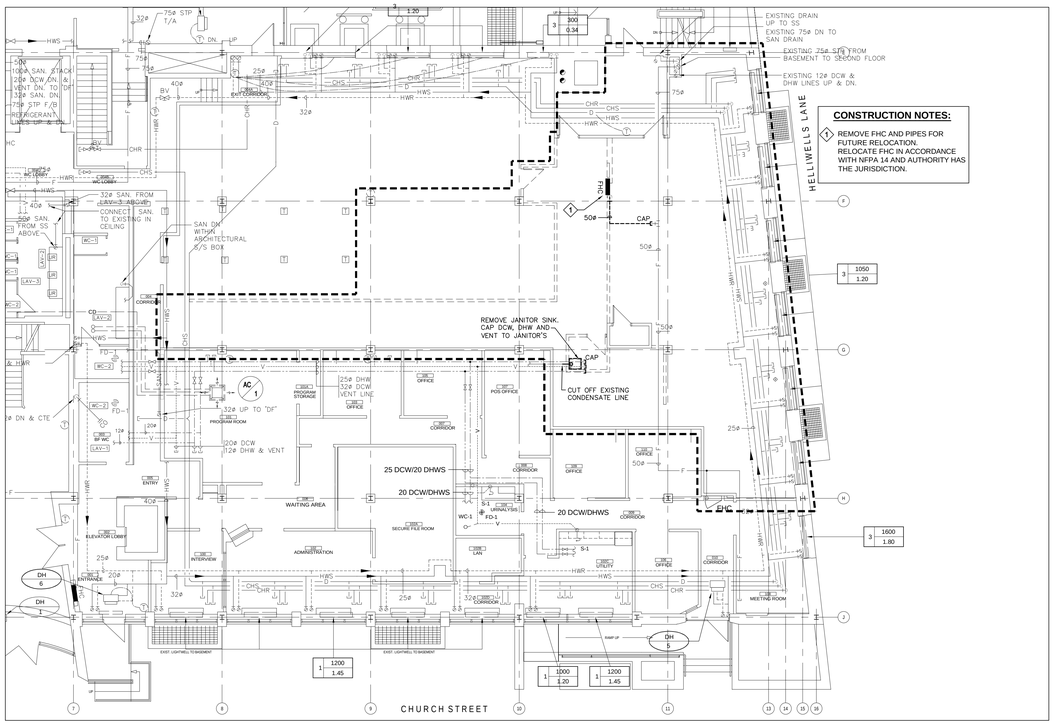
GSC-A0 DATE PLOTTED: – PLOT SCALE: AS SHOWN CAD FILE:

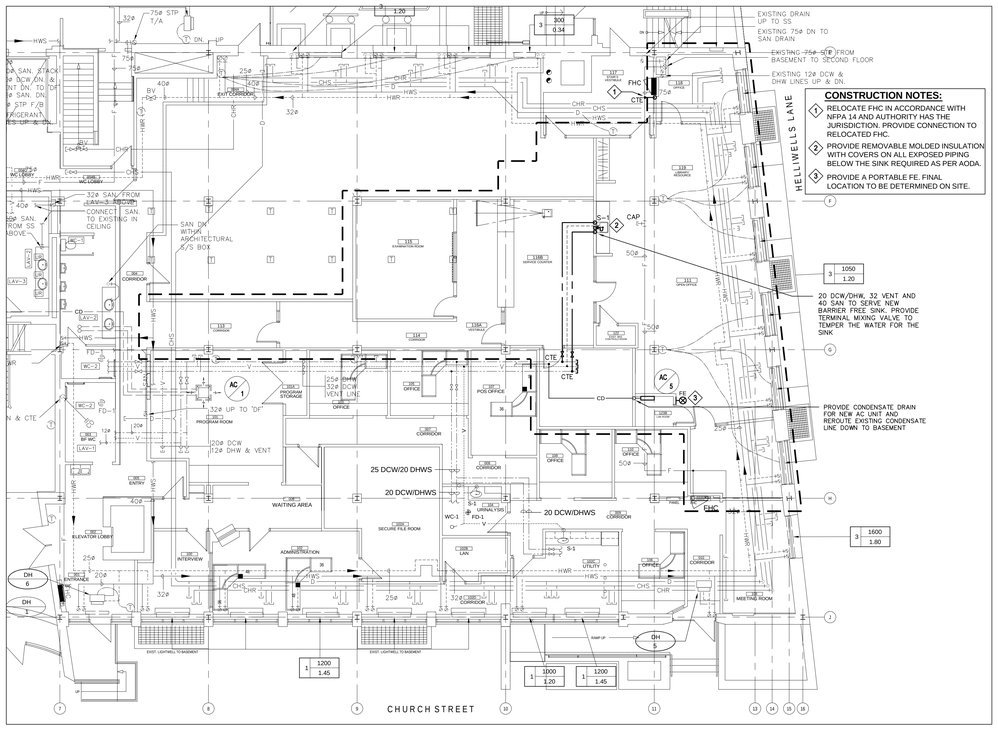
04 11

0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150 160 170 180 190 200 millimetres

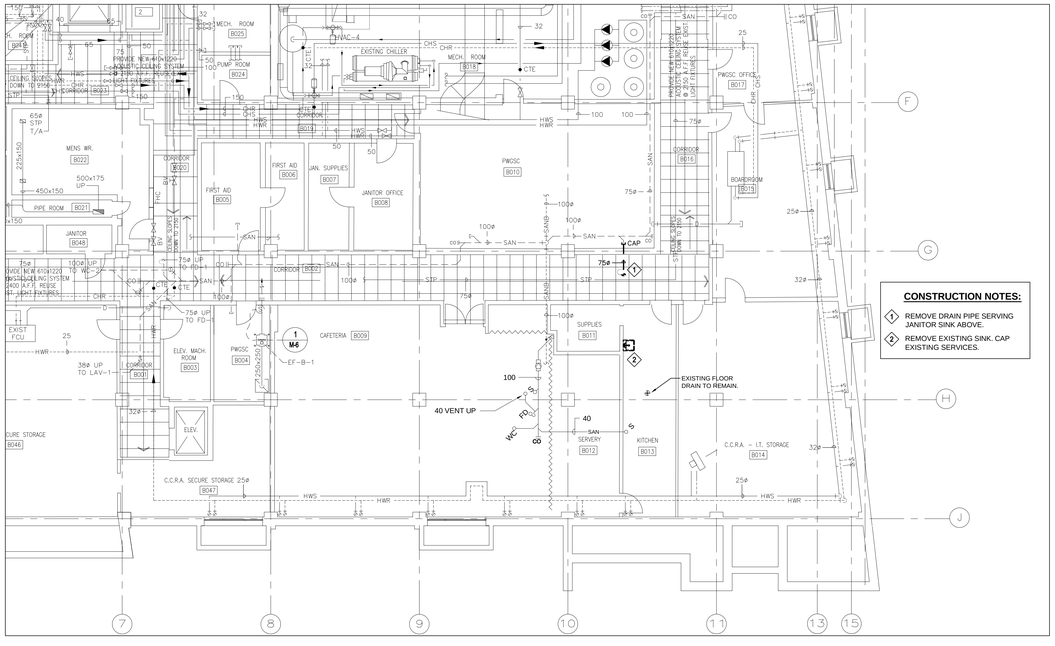
THESE DRAWINGS SHALL NOT BE USED AS INDICATION OF AS-FOUND STATUS FOR AREAS OUTSIDE SCOPE OF THIS WORK. DISTRIBUTION SHOWN IS FOR INFORMATION ONLY.



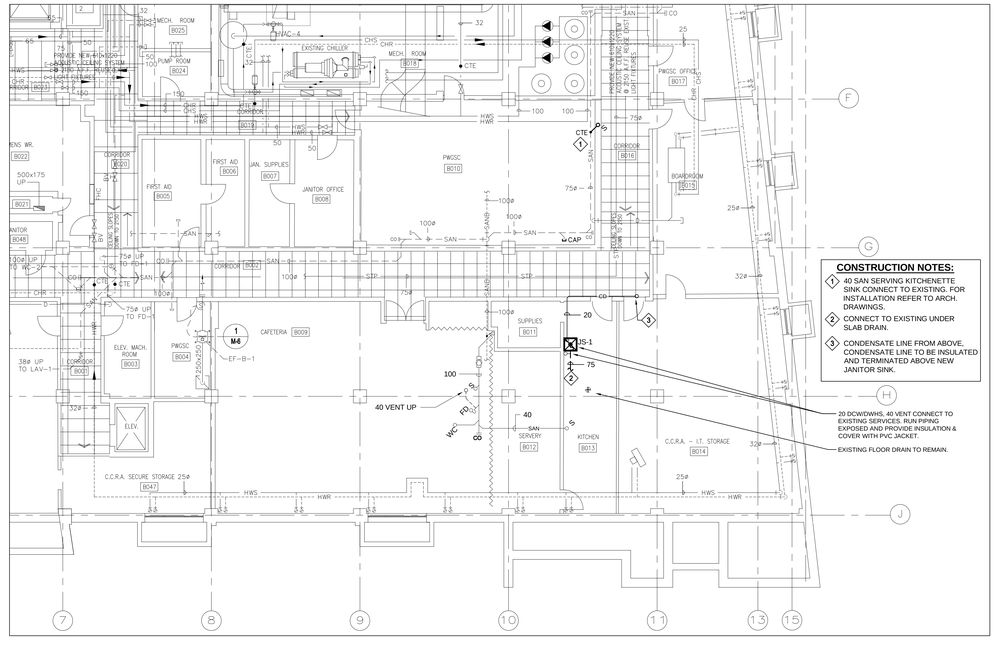

1 PARTIAL GROUND FLOOR PLAN - PLUMBING AND FIRE PROTECTION - DEMO
M-510 1:100




2 PARTIAL GROUND FLOOR PLAN - PLUMBING & DRAINAGE AND FIRE PROTECTION - NEW
M-510 1:100




3 PARTIAL BASEMENT FLOOR PLAN - PLUMBING & DRAINAGE - DEMOLITION
M-510 1:100




4 PARTIAL BASEMENT FLOOR PLAN - PLUMBING & DRAINAGE - NEW
M-510 1:100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32 CHURCH STREET ST. CATHARINES, ONTARIO

drawing title / titre du dessin
GROUND FLOOR & BASEMENT PLANS – P&D AND FIRE PROTECTION

drawn by / dessine par: NA
designed by / conc par: NA
approved by / approuve par: HK
bid / offre
project manager / administrateur de projets
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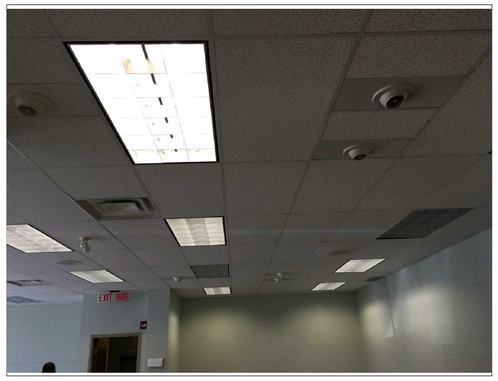
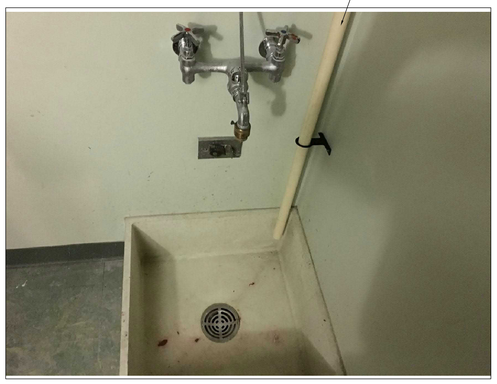



1 / M-600 AIR NOZZLES IN RENOVATION AREA TO BE REMOVED
N.T.S.

EXISTING CONDENSATE LINE WILL BE REROUTED TO BASEMENT



2 / M-600 EXISTING JANITOR SINK TO BE REMOVED (JANITOR CLOSET 115)
N.T.S.

NOTE: COORDINATE E/A DUCT AND REFRIGERANT PIPING ON ROOF, REFER TO M-420.

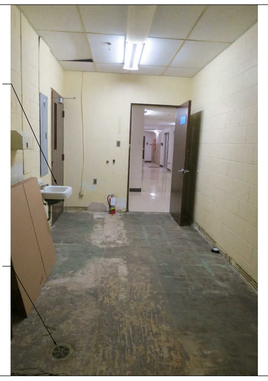
3 / M-600 EXISTING ROOF ENCLOSURE AND GOOSENECK
N.T.S.

NOTE:
MECHANICAL CONTRACTOR TO COORDINATE WITH ELECTRICAL TO REMOVE THE EXISTING MACHINERY (LOCATED INSIDE OF THE ROOF ENCLOSURE). ELECTRICAL TO MAKE SAFE ANY ELECTRICAL CONNECTION.

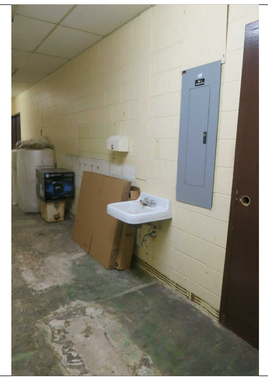
4 / M-600 EXISTING DECOMMISSIONED MACHINERY TO BE REMOVED
N.T.S.

REMOVE EXISTING SINK AND PROVIDE A JANITOR SINK. RECONNECT EXISTING SERVICES. EXACT LOCATION TO BE DETERMINED ON SITE. RUN PIPING EXPOSED IF REQUIRED TO SUIT SITE CONDITION. INSULATE AND PROVIDE PVC JACKET ON EXPOSED PIPING.

EXISTING FLOOR DRAIN TO REMAIN.

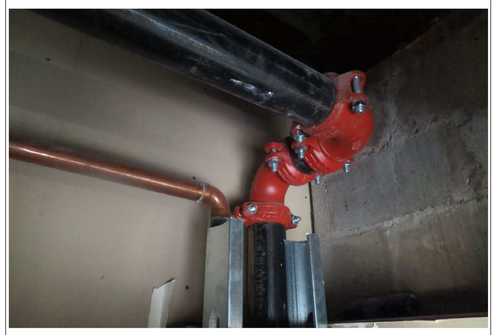


5 / M-600 EXISTING SINK IN BASEMEN KITCHEN B013
N.T.S.



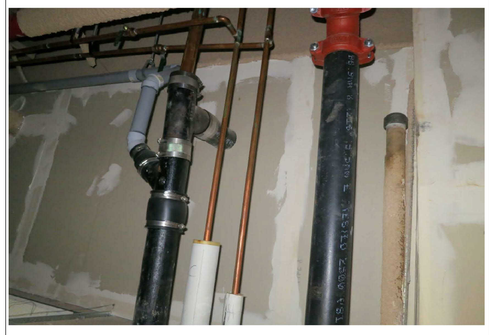
6 / M-600 EXISTING SINK IN BASEMENT TO BE REMOVED AND REPLACED WITH JANITOR SINK (REFER TO DETAIL #5)
N.T.S.

7 / M-600 EXISTING MECHANICAL SERVICES AT GROUND FLOOR RUNNING DOWN (FOR INFO & COORDINATION IN SHAFT)
N.T.S.



8 / M-600 EXISTING MECHANICAL SERVICES AT SECOND FLOOR CEILING GOING DOWN (FOR INFO & COORDINATION IN SHAFT)
N.T.S.

9 / M-600 EXISTING MECHANICAL SERVICES AT SECOND FLOOR CEILING GOING DOWN (FOR INFO & COORDINATION IN SHAFT)
N.T.S.



10 / M-600 EXISTING MECHANICAL SERVICES AT GROUND FLOOR CEILING GOING DOWN (FOR INFO & COORDINATION IN SHAFT)
N.T.S.

11 / M-600 -
N.T.S.

12 / M-600 -
N.T.S.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RENOVATION AND FIT UP FOR FOR TRANSPORT CANADA
32 CHURCH STREET
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drawing title / titre du dessin
MECHANICAL PHOTOS

drawn by / dessine par: NA
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GSC-A0 DATE PLOTTED: – PLOT SCALE: AS SHOWN CAD FILE:

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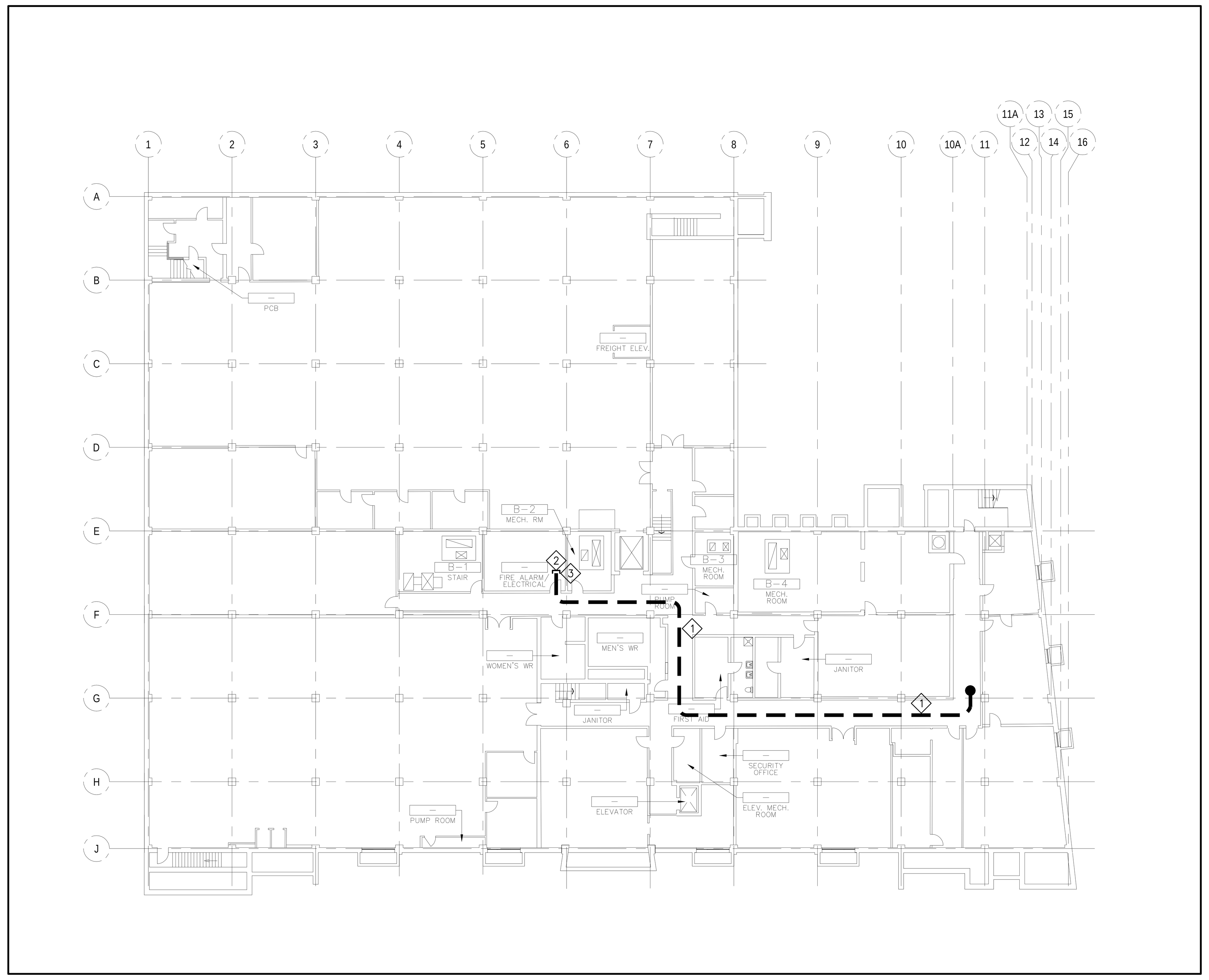
# TENANT FIT-UP FOR
# TRANSPORT CANADA
## THE LAURA SECORD BUILDING
## 32 CHURCH STREET, ST.CATHARINES, ONTARIO
## *PROJECT NUMBER: R. 077633.042*

**NOTES:**

1. APPROXIMATE ROUTE FOR 2" EMT CONDUIT COMPLETE WITH PULL STRING FOR DATA COMMUNICATION RACK FEED UP TO CABLE TRAY AND LAN ROOM.
2. TERMINATE CONDUIT ABOVE DATA COMMUNICATION EQUIPMENT, CO-ORDINATE EXACT LOCATION AND TERMINATION ON SITE PRIOR TO ROUGHING IN.
3. AFTER CONDUIT CABLES INSTALLATION IS COMPLETE PROVIDE SMOKE SEAL AT BOTH ENDS OF CONDUIT TO PREVENT SMOKE FROM ENTERING THE CONDUIT SYSTEM.

**DRAWING LIST**

| DRAWING NO. | DRAWING NAME |
|---|---|
| E-100 | SITE PLAN, DRAWING LIST AND SCHEDULES |
| E-200D | GROUND FLOOR – DEMOLITION LAYOUT |
| E-200 | GROUND FLOOR – NEW LIGHTING LAYOUT |
| E-300 | GROUND FLOOR – NEW POWER AND SYSTEMS LAYOUT |
| | |
| | |




1 LOCATION PLAN – BASEMENT
E-200 1:250

## GENERAL NOTES

1. 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 CONTRACTOR TO OBTAIN A FULL UNDERSTANDING OF THIS LEGEND.
2. ELECTRICAL DRAWINGS SHALL BE READ INCONJUNCTION WITH LATEST ARCHITECTURAL, STRUCTURAL, CIVIL AND MECHANICAL DOCUMENTS AT ALL TIMES. IT SHALL BE THE ELECTRICAL'S RESPONSIBILITY TO OBTAIN ALL LATEST DOCUMENTS PRIOR TO BID SUBMISSION AND CONSTRUCTION.
3. BEFORE SUBMITTING ANY PRICE, THE CONTRACTOR SHALL VISIT THE SITE AS IDENTIFIED IN DIVISION 1 DOCUMENTS AND EXAMINE THE FOLLOWING:

3.1. CHECK THE EXISTING CONDITIONS AND IDENTIFY ANY LIMITATIONS.
3.2. CHECK THE EXISTING ELECTRICAL COMPONENTS THAT ARE TO BE REUSED (IF APPLICABLE).
3.3. EXAMINE THE PROPOSED WORK AGAINST THE EXISTING CONDITIONS. AFTER EXAMINING ALL THE ABOVE AGAINST THE PLANS, SPECIFICATIONS AND TERMS OF CONTRACT, THE CONTRACTOR MUST SATISFY HIMSELF THAT THE PROPOSED WORK CAN BE CARRIED OUT, OR SHALL BE MODIFIED AT NO EXTRA COST TO THE DEPARTMENT REPRESENTATIVE IN ORDER TO ACHIEVE THE INTENT OF THE SCOPE OF WORK IDENTIFIED IN THESE DOCUMENTS.
3.4. IF THE CONTRACTOR BELIEVES LIMITATIONS AND/OR DISCREPANCIES EXIST HE MUST THEN SUBMIT IN WRITING TO THE DEPARTMENT REPRESENTATIVE IDENTIFYING THEM. CLARIFICATION WILL BE ISSUED.

4. DETAILS ON ELECTRICAL DRAWINGS ARE INTENDED TO BE FOR GENERAL ARRANGEMENT ONLY. DETAILS DO NOT SHOW ALL COMPONENTS, BUT ARE MERELY A GUIDE AS TO THE ORIENTATION OF EQUIPMENT THAT IS REQUIRED TO ASSIST THE INSTALLATION.
5. IF A POWER SHUT DOWN IS REQUIRED TO FACILITATE ANY INSTALLATION RELATED TO THIS PROJECT, THE CONTRACTOR SHALL SUBMIT IN WRITING TO DEPARTMENT REPRESENTATIVE REPRESENTATIVE IN ADVANCE FOR PERMISSION. WITHOUT PERMISSION THE WORK SHALL NOT PROCEED.
6. THE CONTRACTOR SHALL COORDINATE WITH ALL TRADES AND SUB-TRADES AND SCHEDULE ALL WORK BEFORE ROUGHING IN DEVICES, CONDUIT, EQUIPMENT, ETC. TO AVOID ANY CONFLICT. IF THERE IS A INTERFERENCE, CONTRACTOR SHALL PROVIDE A DETAILED/SCALED SKETCH DRAWING OF THE INTERFERENCE c/w A PROPOSED SOLUTION AND SUBMIT IT TO THE DEPARTMENT REPRESENTATIVE FOR REVIEW. REFER TO SPECIFICATION SECTION 16010 FOR INTERFERENCE DRAWINGS REQUIREMENTS.
7. THE CONTRACTOR SHALL MAKE GOOD AND MAINTAIN FIRE RATINGS OF ASSEMBLY.

   ANY SURFACES OR FINISHES DAMAGED AS A RESULT OF ELECTRICAL ALTERATIONS OR INSTALLATIONS SHALL BE REPAIRED.
8. BACK TO BACK OUTLET INSTALLATION IS NOT ACCEPTABLE. OUTLETS MUST BE OFFSET FROM EACH OTHER A MIN. OF 6" (150mm) OR SPACE NECESSARY TO MAINTAIN NOISE CRITERIA, WHEN LOCATED ON COMMON WALL AT OPPOSITE SIDES OF THE WALL.
9. THE FOLLOWING SHALL BE USED AS A MINIMUM GUIDE WITH RESPECT TO BRANCH CIRCUIT WIRE SIZING FOR VOLTAGE DROP:

   #12 AWG TO BE USED FROM 0 TO 80FT MAXIMUM FOR PANEL BRANCH CIRCUIT RUNS.
   #10 AWG TO BE USED FROM 80 TO 180FT MAXIMUM FOR PANEL BRANCH CIRCUIT RUNS.
   #8 AWG TO BE USED FROM 180 TO 280FT MAXIMUM FOR PANEL BRANCH CIRCUIT RUNS.
10. ALL JUNCTION BOXES ARE TO BE IDENTIFIED PER THE SPECIFICATION SECTION 26 05 20. THE CONTRACTOR SHALL ENSURE ACCESS TO ALL JUNCTION BOXES ARE NOT IMPEDED.
11. INSTALL LUMINAIRES IN ELECTRICAL, MECHANICAL AND SERVICE ROOMS AFTER INSTALLATION OF ALL EQUIPMENT PIPING AND DUCTWORK SO TO PROVIDE THE BEST LEVEL OF LUMINATION WITHIN THE ROOM. LUMINARIES SHALL BE SUPPORTED FROM BUILDING STRUCTURE ONLY.
12. THE CONTRACTOR SHALL PROVIDE AUTO CAD DRAWINGS FOR REVIEW OF ALL ELECTRICAL AND DATA ROOMS PRIOR TO INSTALLATION OF ELECTRICAL SERVICES OR EQUIPMENT FOR REVIEW BY DEPARTMENT REPRESENTATIVE. REFER TO SPECIFICATIONS.
13. THE CONTRACTOR SHALL ADHERE TO ALL ACOUSTIC REQUIREMENTS AND INSTALL CONDUITS AS NOTED ON DETAIL SHEET ACCORDINGLY. THE CONTRACTOR SHALL BE RESPONSIBLE TO REVIEW ARCHITECTURAL DOCUMENTS AND ASSOCIATED ACOUSTIC REPORT.
14. THE CONTRACTOR SHALL TAKE NOTE OF THE DRAWING SCALES AND GOVERN HIMSELF ACCORDINGLY.
15. IF DISCREPANCIES OF INTERFERENCES ARE DISCOVERED BETWEEN DEPARTMENT REPRESENTATIVE DRAWINGS, NOTIFY THE DEPARTMENT REPRESENTATIVE IMMEDIATELY BEFORE CONTINUING WITH THE WORK AND SUPPLY/INSTALLATION OF THE AREA/ITEM IN QUESTION.

## LIGHTING LEGEND

- FLUORESCENT LUMINAIRE – REFER TO SCHEDULE
- INCANDESCENT, FLUORESCENT, OR HID LUMINAIRE – REFER TO SCHEDULE
- LUMINAIRE CONNECTED TO UNSWITCHED CIRCUIT
- X1, X5 — CEILING/WALL MOUNTED EXIT LIGHT. 'X1' ... 'X5' DENOTES TYPE REFER TO SPECIFICATION
- EMERGENCY LIGHTING REMOTE HEAD(s) CEILING MOUNTED REFER TO SCHEDULE
- EMERGENCY LIGHTING REMOTE HEAD(s) CEILING/WALL MOUNTED REFER TO SCHEDULE
- BAT — EMERGENCY LIGHTING BATTERY UNIT c/w RECEPTACLE AND HEADS(S) AS DETAILED
- $,$,$ — SINGLE POLE, SINGLE THROW TOGGLE SWITCH ('3' DENOTES 3-WAY, 'LV' DENOTES LOW VOLTAGE, 'M' DENOTES MASTER, 'K' DENOTES KEY SWITCH)
- DIMMER SWITCH ('F' DENOTES FLUORESCENT DIMMER)
- OS1 — OCCUPANCY SENSOR – CEILING MOUNTED, NUMBER INDICATES TYPE. REFER TO SPECIFICATION
- OS2 — OCCUPANCY SENSOR – WALL MOUNTED, NUMBER INDICATES TYPE. REFER TO SPECIFICATION
- 6A1-2-1 — TYPICAL CIRCUIT DESIGNATIONS FOR LIGHTING PANEL IS AS FOLLOWS: SWITCH LEG; CIRCUIT NUMBER; PANEL DESIGNATION
- 6A1-2-A1-1 — TYPICAL CIRCUIT DESIGNATIONS FOR RELAY PANEL IS AS FOLLOWS: LOW VOLTAGE SWITCH LEG; RELAY NUMBER; RELAY PANEL DESIGNATION; CIRCUIT NUMBER; PANEL DESIGNATION

## SECURITY LEGEND

- CCTV — SECURITY CAMERA LOCATION ('F' DENOTES FIXED MOUNTING, 'PTZ' DENOTES PAN/TILT/ZOOM) (NOT USED)
- ES — SECURITY ELECTRIC STRIKE LOCATION (NOT USED)
- ML — SECURITY MAGNETIC LOCK (NOT USED)
- REX — SECURITY DOOR RELEASE BUTTON LOCATION (NOT USED)
- DC — DOOR CONTACT LOCATION (SUPPLIED AND INSTALLED BY OTHERS)

## TELECOMMUNICATION LEGEND

- VOICE OUTLET – WALL MOUNTED c/w 1" [25mm] C. BACK TO NEAREST COMMUNICATION ROOM/CLOSET OR LOCAL CABLE TRAY
- FAX/MODEM OUTLET – WALL MOUNTED c/w 1" [25mm] C. BACK TO NEAREST COMMUNICATION ROOM/CLOSET OR LOCAL CABLE TRAY
- DATA OUTLET – WALL MOUNTED c/w 1" [25mm] C. BACK TO NEAREST COMMUNICATION ROOM/CLOSET OR LOCAL CABLE TRAY
- COMBINATION TEL/DATA OUTLET – WALL MOUNTED c/w 1" [25mm] C. BACK TO NEAREST COMMUNICATION ROOM/CLOSET OR LOCAL CABLE TRAY
- VOICE/DATA CONNECTION TO FURNITURE SYSTEM, CEILING/WALL MOUNTED
- (2D,2V) — TYPICAL DESCRIPTION FOR DATA/VOICE OUTLETS; NONE – DENOTES 1 CABLE; (2D,2V) – DENOTES QUANTITY OF DATA/VOICE CABLES)
- TV — TELEVISION OUTLET C/W SINGLE GANG BACKBOX, CONNECTORS, COVERPLATE AND 1 CABLES IN 3/4" (19mm) C. CO-ORDINATE MOUNTING HEIGHT ON SITE TO SUIT TV MOUNTING ARRANGEMENTS, RUN CABLE BACK TO THE NEAREST COMMUNICATION ROOM/CLOSET.

## POWER LEGEND

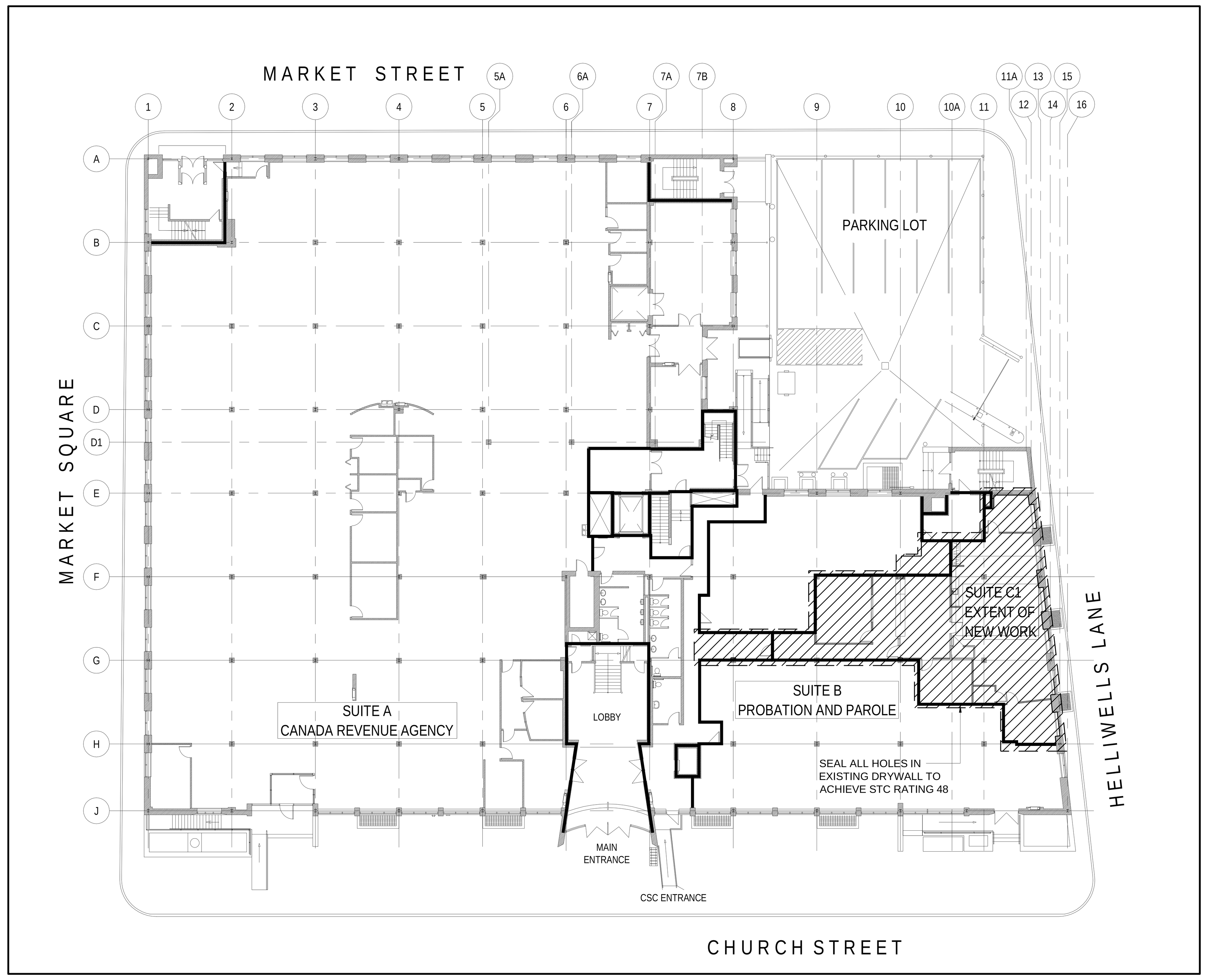
- 15A-125V 2P-3W GROUNDED DUPLEX RECEPTACLE, WALL MOUNTED
- 15A-125V 2P-3W ISOLATED GROUND DUPLEX RECEPTACLE, WALL MOUNTED (SS-DENOTES SURGE SUPPRESSION TYPE).
- 15A-125V 2P-3W GROUNDED DUPLEX RECEPTACLE, WALL MOUNTED 150mm ABOVE COUNTER TOP
- 15A-125V 2P-3W GROUNDED TWO (2) GANGED RECEPTACLES (QUADRUPLEX), WALL MOUNTED
- POWER AND DATA MONUMENT SURFACE MOUNTED ON FLOOR, c/w 15A-125V 2P-3W GROUNDED DUPLEX RECEPTACLE
- 120V CONNECTION TO EQUIPMENT
- 208V, 1PH CONNECTION TO EQUIPMENT
- 600V, 3PH CONNECTION TO EQUIPMENT
- DISCONNECT SWITCH
- SERVICE POLE
- PANELBOARD, RECESSED/SURFACE MOUNTED. REFER TO PANEL SCHEDULES.
- PP-2A1 — 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)
  - MS – DENOTES MAIN SWITCHBOARD
  - DP – DENOTES DISTRIBUTION PANEL
  - MCC – DENOTES MOTOR CONTROL CENTRE
  - LP – DENOTES LIGHTING PANEL
  - PP – DENOTES POWER/RECEPTACLE PANEL
  - RP – DENOTES RELAY PANEL

## MISCELLANEOUS LEGEND

- ⟨2⟩ — DENOTES REFER TO NOTE ⟨2⟩
- GFI — DENOTES GROUNDED FAULT INTERRUPTER.
- MW — DENOTES MOUNTED IN MILLWORK
- CH — DENOTES DEVICE MOUNTED 150mm ABOVE COUNTER TOP.
- TL — DENOTES TWIST LOCK RECEPTACLE
- J — JUNCTION BOX
- DOOR BELL PUSH BUTTON – WALL MOUNTED
- B — DOOR BELL BUZZER – WALL MOUNTED
- EF/1 — DENOTES MECHANICAL EQUIPMENT
- 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
- ------ HIDDEN LINE DENOTES EXISTING ITEM UNLESS OTHERWISE NOTED
- C — 120 VOLT ON-OFF SWITCH TIMER SUPPLIED BY MECHANICAL AND INSTALLED BY THE CONTRACTOR
- S — PUBLIC ADDRESS SPEAKER – CEILING MOUNTED

## FIRE ALARM LEGEND

- F — FIRE ALARM MANUAL PULLSTATION
- S — FIRE ALARM STROBE LIGHT – WALL MOUNTED
- SC — FIRE ALARM STROBE LIGHT – CEILING MOUNTED
- FIRE ALARM SPEAKER/STROBE LIGHT – WALL MOUNTED
- FIRE ALARM SPEAKER/STROBE LIGHT – CEILING MOUNTED
- F — FIRE ALARM BELL – WALL MOUNTED
- IONIZATION SMOKE DETECTOR CEILING MOUNTED
- IONIZATION SMOKE DETECTOR WALL MOUNTED




2 GROUND FLOOR – KEY PLAN
E-100 1:250

Public Works and Government Services Canada
Architectural and Engineering Services
Ontario Region
Travaux publics et Services gouvernementaux Canada
Services d'architecture et de génie
Région de l'Ontario

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LICENSED PROFESSIONAL ENGINEER
D. A. SYLVESTER
PROVINCE OF ONTARIO
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N
PROJECT NORTH

| | | |
|---|---|---|
| 04 | ISSUED FOR TENDER | 2016-10-11 |
| 03 | ISSUED FOR TENDER REVIEW | 2016-09-02 |
| 02 | ISSUED FOR 99% SUBMISSION | 2016-07-26 |
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project title / titre du projet: RENOVATION AND FIT UP FOR FOR TRANSPORT CANADA
32 CHURCH STREET
ST. CATHARINES, ONTARIO

drawing title / titre du dessin: SITE PLAN AND DRAWING LIST AND SCHEDULES

drawn by / dessine par: SH
designed by / conc par: AO
approved by / approuve par: AO/DS
bid / offre
project manager / administrateur de projets
project date / date du projet: 2016.10.11
project no. / no. du projet: R.077633.042
drawing no. / dessine no.: E-100

04 11

0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150 160 170 180 190 200 millimetres

## NOTES:

1. DISCONNECT AND REMOVE ALL LIGHTING IN THE AREA OF RENOVATIONS, PREPARE LUMINAIRES DESIGNATED FOR RELOCATION IN NEW POSITIONS, REFER TO DRAWING E–200.
2. DISCONNECT AND REMOVE ALL PA SPEAKERS IN THE AREA OF RENOVATIONS, PREPARE SPEAKERS DESIGNATED FOR RELOCATION IN NEW POSITIONS, REFER TO DRAWING E–300.
3. DISCONNECT AND REMOVE ALL EXISTING ABOVE CEILING RECEPTACLES AND POWER BRANCH CIRCUITS FOR EXISTING SERVICE POLES AND MAKE SAFE. RE–USE EXISTING CIRCUITS IN AREAS OF RENOVATIONS MADE AVAILABLE BY THE REMOVAL OF RECEPTACLES AND MISCELLANEOUS BRANCH CIRCUITS.

4. DISCONNECT AND REMOVE ALL EXISTING RECEPTACLES AND MISCELLANEOUS EQUIPMENT BRANCH CIRCUITS IN THE EXISTING ROOM AND SURROUNDING AREAS COMPLETE WITH ALL WIRING, PULL BACK ALL WIRING TO ITS SOURCE AND MAKE SAFE. REU–SE EXISTING BRANCH CIRCUITS THAT BECOMES AVAILABLE.
5. ALL REMOVED EXIT LUMINAIRES SHALL BE KEPT INTACT AND HANDED OVER TO DEPARTMENT REPRESENTATIVE UPON COMPLETION OF DEMOLITION WORK.

6. DISCONNECT AND REMOVE ALL EXISTING POWER CONNECTIONS TO DUMBWATER MACHINERY ENCLOSURE, PULL BACK WIRING TO ITS SOURCE AND MAKE SAFE. REFER TO PICTURE DETAIL #5 ON MECHANICAL DRAWING M–600 AND CO–ORDINATE WITH DWG. M–420.


Public Works and Government Services Canada
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FOR TRANSPORT CANADA
32 CHURCH STREET
ST. CATHARINES, ONTARIO

drawing title / titre du dessin
GROUND FLOOR – DEMOLITION LAYOUT

drawn by / dessine par: SH

designed by / conc par: AO

approved by / approuve par: AO/DS

bid / offre

project manager / administrateur de projets

project date / date du projet: 2016.10.11

project no. / no. du projet: R.077633.042

drawing no. / dessine no.: E–200D

GSC–A0 DATE PLOTTED: 2014/06/14 PLOT SCALE: AS SHOWN CAD FILE:

04.11

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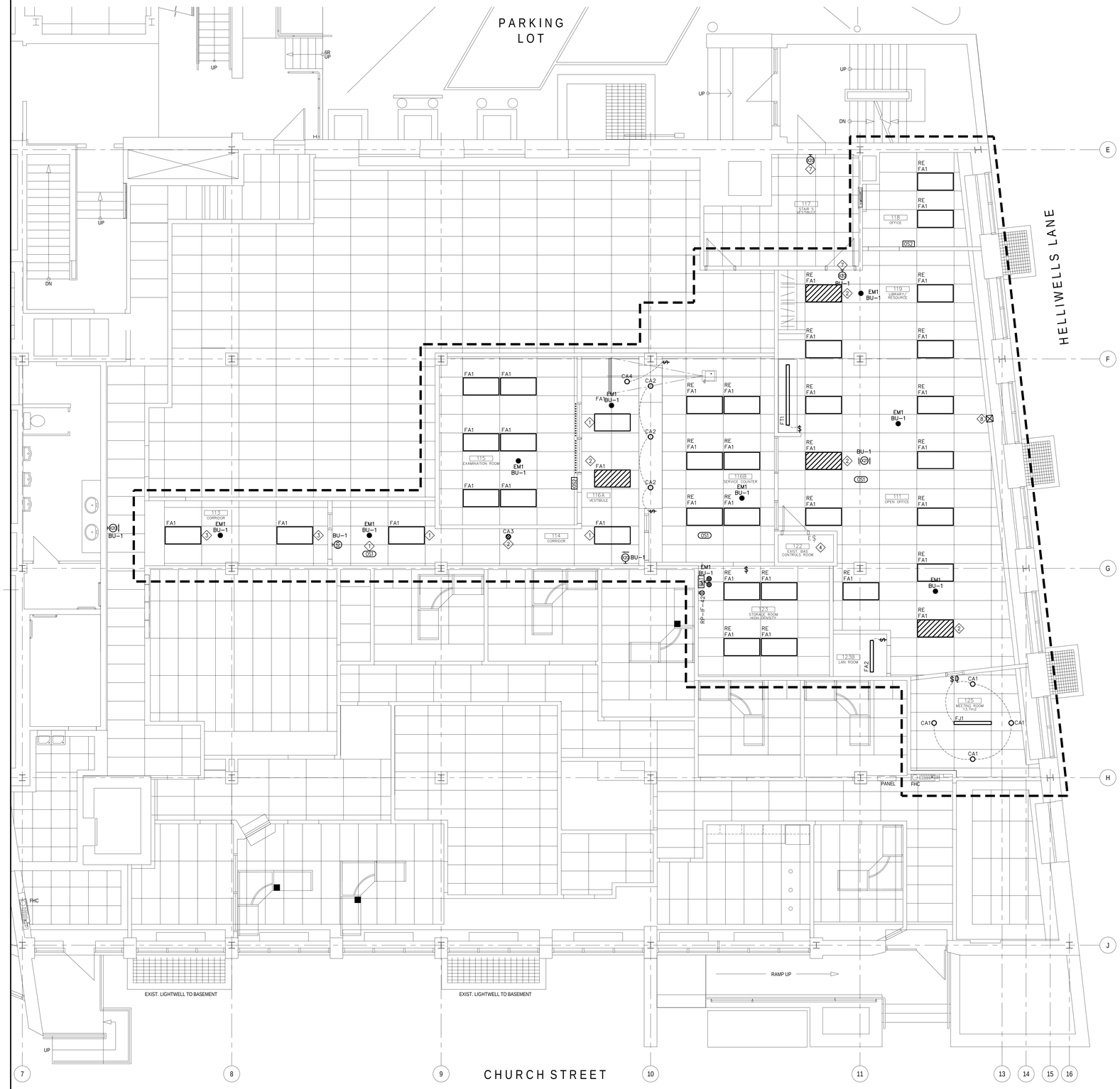


## NOTES:

1. CIRCUITING AND CONTROLS IN CORRIDOR TO BE REUSED FOR NEW LIGHTING.
2. UN-SWITCHED LUMINAIRE AS INDICATED TO BE CONSIDERED AS NIGHTLIGHT.
3. CONNECT LUMINAIRES AS INDICATED TO EXISTING BASE BUILDING CORRIDOR LIGHTING AND CONTROL.
4. UNLESS OTHERWISE NOTED, ALL LIGHTING IN THIS ROOM SHALL REMAIN AS INSTALLED. MODIFY CIRCUIT AND CONTROL AS REQUIRED AND CONNECT TO TRANSPORT CANADA AREA LIGHTING CIRCUIT.
5. UNLESS OTHERWISE NOTED, ALL LIGHTING CIRCUITS IN THE AREA OF RENOVATION SHALL BE CONNECTED TO EXISTING LP-1B. ENSURE THAT ALL CIRCUITS IN THIS RENOVATED AREA ARE NOT CONNECTED TO ANY OTHER AREAS.
6. UNLESS OTHERWISE NOTED, LUMINAIRES WITHOUT THE "RE" DESIGNATION SHALL BE NEW TO MATCH EXISTING.
7. DISCONNECT AND REMOVE EXISTING BILINGUAL EXIT LUMINAIRE AND REPLACE WITH NEW GREEN RUNNING MAN SIGN AS SPECIFIED AND CONNECT TO EXISTING CIRCUIT.
8. EXACT LOCATION OF SERVICE POLE TO BE COORDINATED ON SITE WITH CEILING SYSTEM AND FURNITURE LAYOUT.
9. ENSURE THAT LIMITED AC90 (BX) CABLING USED FOR LIGHTING IS PROPERLY SUPPORTED. DO NOT LAY CABLED ON CEILING/TILES GRID SYSTEM.
10. ALL RECESSED DOWNLIGHTS IN THE T-BAR GRID SYSTEM SHALLP BE SUPPORTED WITH "JACK CHAIN" FROM THE BUILDING STRUCTURE.
11. ENSURE THAT BATTERY OPERATED EMERGENCY LIGHTING UNITS ARE PROVIDED WITH SERVICE TAGS TO INDICATE WHEN SERVICE AND MAINTENANCE ARE BEING CARRIED OUT. THIS IS IN ORDER TO ENSURE COMPLIANCE WITH THE NATIONAL FIRE CODE OF CANADA 2015 SECTION 6.5.1.6

## LUMINAIRE SCHEDULE

| TYPE | DESCRIPTION | LAMP/ WATTAGE | MANUFACTURER |
|---|---|---|---|
| FA1 | NEW 2FTX4FT RECESSED IN T-BAR GRID, PARABOLIC DEEP LOUVER FLUORESCENT C/W ELECTRONIC BALLAST 120V TO MATCH EXISTING BUILDING STANDARDS | 2-32W T8 | COLUMBIA P4 24-2 SERIES |
| FA2 | NEW SURFACE WALL MOUNTED 4FEET LONG FLUORESCENT STRIP LIGHT COMPLETE WITH WIREGUARD | 2-32W T8 | COLUMBIA P4 24-2 SERIES |
| FT1 | UNDER CABINET TASK LIGHT 1"x36", LOW PROFILE EXTRUDED ALUMINUM HOUSING WITH ACRYLIC TEXTURED LENS. INTEGRAL PIR OCCUPANCY SENSOR. INTERCONNECTING POWER CORD FOR MULTIPLE RUNS. INTEGRAL ON/OFF SWITCH PER RUN. | 2-25W T8 | COOPER CL-125 SERIES |
| FJ1 | NEW 4FT LINEAR FLUORESCENT DIRECT/INDIRECT SUSPENDED COMPLETE WITH 3-LAMPS; PERFORATED PARABOLIC LOUVER; MATTE WHITE FINISH; ELECTRONIC 120V BALLAST AND MOUNTED WITH FIELD ADJUSTABLE AIRCRAFT CABLES. FINAL SUSPENSION HEIGHT TO BE FIELD ADJUSTED ON SITE. | 3-32W T8 | METALUMEN AVITAR SERIES C3M |
| | | | |
| CA1 | NEW 6" DIAMETER RECESSED OPEN REFLECTOR DOWNLIGHT COMPLETE WITH DIMMABLE BALLAST AND ONE (1) 32W TRIPLE TUBE ELECTRONIC COMPACT FLUORESCENT TO MATCH EXISTING BUILDING STANDARDS | 1-32W | CFT 632EB ITELECT SERIES |
| CA2 | NEW 4" DIAMETER RECESSED OPEN REFLECTOR DOWNLIGHT COMPLETE WITH FIVE (5) LED DRIVER. | 5-1.5W LED | |
| CA3 | NEW 6" DIAMETER RECESSED OPEN REFLECTOR DOWNLIGHT COMPLETE WITH ONE (1) 32W TRIPLE TUBE ELECTRONIC COMPACT FLUORESCENT TO MATCH EXISTING BUILDING STANDARDS | 1-32W | CFT 632EB INTELECT SERIES |
| CA4 | NEW 6" DIAMETER RECESSED OPEN REFLECTOR WALL WASH WITH ONE (1) 32W TRIPLE TUBE ELECTRONIC COMPACT FLUORESCENT TO MATCH EXISTING BUILDING STANDARDS | 1-32W | CFT 632EB ITELECT SERIES |
| EM1 | NEW RECESSED REMOTE HEAD EMERGENCY LIGHT 12V, LUMACELL SIGNATURE COLLECTION LED SERIES #RSTH19 FINISHED IN WHITE FINISH. | 18WATT QUARTZ | LUMACELL MT/MQ SERIES OR PPROVED EQUAL |
| BU-1 | NEW EMERGENCY BATTERY LIGHTING UNIT 12V 250WATTS LUMACELL RSG SERIES MINIMUM 1HR RUNTIME AT 100% FULL LOAD COMPLETE WITH HEADS AS INDICATED | 360WATT | LUMACELL RGLD APPROVED EQUAL |
| X20 | 120VAC WALL MOUNTED EXTRUDED ALUMINUM C/W VERSATILE SMOOTH FINISH GREEN PICTOGRAM "RUNNING MAN" SIGNAGE, RIGHT OR LEFT DIRECTIONAL ARROW AS SHOWN ON DRAWINGS. | 2.5 WATT | LUMACELL LA1WU SERIES OR APPROVED EQUAL |
| X21 | 120VAC DIE-CAST ALUMINUM RECESSED CEILING MOUNT GREEN PICTOGRAM "RUNNING MAN" EDGE-LIT EXIT C/W DOUBLE-FACE, DIRECTIONAL ARROWS AS SHOWN ON DRAWINGS. | 2.5 WATT | LUMACELL LDE2WFACD SERIES OR APPROVED EQUAL |


Public Works and Government Services Canada
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12356.107

LICENSED PROFESSIONAL ENGINEER D. A. CROSSEY PROVINCE OF ONTARIO

ENG. STAMP

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32 CHURCH STREET
ST. CATHARINES, ONTARIO

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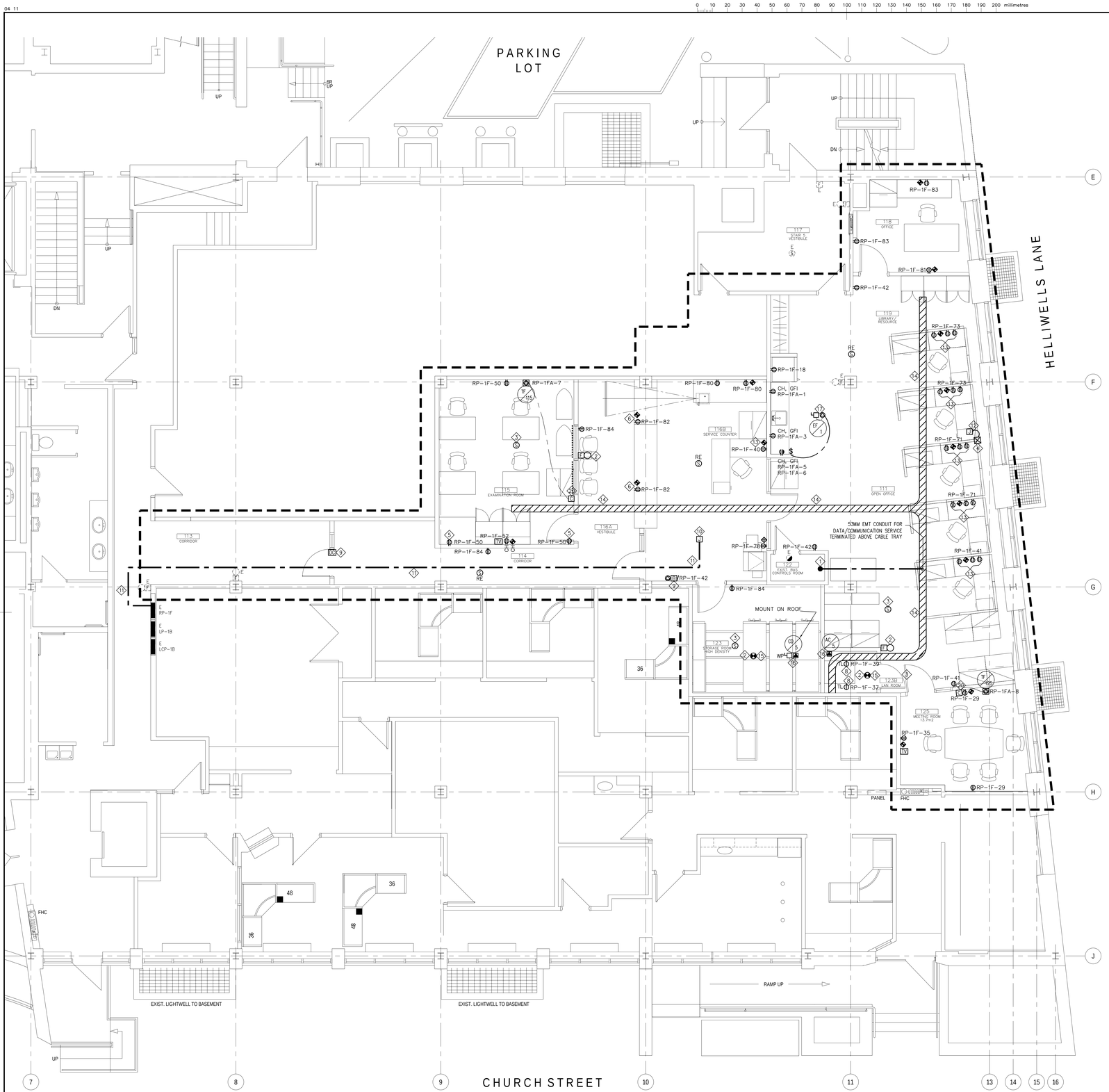
GROUND FLOOR – NEW LIGHTING LAYOUT

drawn by / dessine par: SH
designed by / conc par: AO
approved by / approuve par: AO/DS
bid / offre
project manager / administrateur de projets
project date / date du projet: 2016.10.11
project no. / no. du projet: R.077633.042
drawing no. / dessine no.: E-200

GSC-A0 DATE PLOTTED: 2014/06/14 PLOT SCALE: AS SHOWN CAD FILE:




## NOTES:

1. CORE FOR DATA/COMMUNICATION FIBRE CONDUIT THROUGH SLAB TO ELECTRICAL ROOM.
2. CONNECT NEW FIRE ALARM DEVICES TO EXISTING ZONE CIRCUIT SERVING THE AREA OF TRANSPORT CANADA FIT-UP.
3. PROVIDE NEW P.A. SPEAKERS TO MATCH EXISTING BASE BUILDING TYPE.
4. POWER/DATA COMMUNICATION SERVICE POLE PROVIDED AND INSTALLED BY SYSTEM FURNITURE SUPPLIER/INSTALLER. THE CONTRACTOR SHALL PROVIDE AND INSTALL WIRING VIA SERVICE POLE THROUGH TO DEVICES.
5. RECEPTACLE MOUNTED HIGH ON WALL JUST BELOW CEILING. VERIFY MOUNTING HEIGHT AND LOCATION ON SITE PRIOR TO ROUGHING IN.
6. DEVICES MOUNTED IN MILLWORK, CO-ORDINATE EXACT LOCATION AND MOUNTING ARRANGEMENT ON SITE WITH MILLWORK INSTALLER AND CLIENT PRIOR TO ROUGHING IN.
7. NOT USED.
8. TWIST LOCK RECEPTACLES FOR DATA RACK, MOUNT RECEPTACLES AT TOP OF RACK CO-ORDINATE EXACT LOCATION AND MOUNTING ARRANGEMENTS ON SITE PRIOR TO ROUGHING-IN.
9. DOOR CONTACT SUPPLY AND INSTALLED BY DOOR HARDWARE SUPPLIER/INSTALLER. PROVIDE LOW VOLTAGE WIRING FROM DOOR CONTACT TO BELL/CHIME AS REQUIRED AND CONNECT TO FORM A COMPLETE SYSTEM. THE BELL/CHIME SHALL BE BASED ON "HEATH ZENITH SERIES" CHIME MODEL #57/M-C FINISHED IN WHITE DECORATIVE LINEAR COVER; TRANSFORMER MODEL #122C-A. PROVIDE SHOP DRAWINGS OF BELL/CHIME SYSTEM FOR FINAL PRODUCT CHOICE. BELL/CHIME SHALL BE PROVIDED BY THE CONTRACTOR. THE SYSTEM SHALL BE WIRED SUCH THAT UPON OPENING OF THE DOOR THE BELL/CHIME WILL OPERATE TO ALERT STAFF THAT SOME ONE HAS ENTERED THE SPACE.
10. PROVIDE ZONE POWER TO JUNCTION BOX ABOVE CEILING AND SIZED AS REQUIRED FOR CIRCUITS DISTRIBUTION WITHIN TRANSPORT CANADA SUITE, CO-ORDINATE EXACT LOCATION ON SITE PRIOR TO ROUGHING-IN
11. PROVIDE 2 x 41MM EMT CONDUITS ABOVE CEILING AND TERMINATE IN EXISTING PANEL RP-1F AS INDICATED, CO-ORDINATE EXACT ROUT ON SITE PRIOR TO ROUGHING-IN.
12. THE CONTRACTOR SHALL PROVIDE ABOVE CEILING JUNCTION BOXES FOR POWER BRANCH CIRCUITS VIA SERVICE POLE FOR SYSTEM FURNITURE RECEPTACLES. ALLOW FOR FLEXIBLE CONDUIT CONNECTION FROM JUNCTION BOX TO SERVICE POLE.
13. DEVICES IN SYSTEM FURNITURE TO BE MOUNTED ABOVE DESK. EXACT MOUNTING HEIGHT TO BE CO-ORDINATED WITH FURNITURE SUPPLIER.
14. 12" WIDE X 4 HIGH" BASKET CABLE TRAY FOR VOICE AND DATA/COMMUNICATION WIRING MOUNTED ABOVE CEILING. THE CONTRACTOR IS RESPONSIBLE FOR CO-ORDINATING EXACT LOCATION AND ROUTE ON SITE WITH ALL TRADES PRIOR TO ROUGHING IN. ALL TRADES SHALL CO-ORDINATE THEIR WORK ON SITE SUCH THAT ANY INTERFERENCES ARE ELIMINATED.
15. PROVIDE NEW FIRE ALARM SMOKE DETECTOR TO MATCH BASE BUILDING STANDARD AND CONNECT TO EXISTING INITIATING ZONE CIRCUIT SERVING THE AREA. CO-ORDINATE MOUNTING ARRANGEMENTS ON SITE TO ELIMINATE DETECTOR INTERFERENCES.
16. PROVIDE A 20A-2P BREAKER IN EXISTING RP-1F TO MATCH EXISTING AND FEED CD-5 LOCATED ON ROOF WITH 2 #12RW90 IN 19MM EMT CONDUIT. ALLOW FOR INTER CONNECTING CD-5 AND AC-5 WITH 2 #12 RW90 IN 19MM EMT CONDUIT. CO-ORDINATE EXACT LOCATION ON SITE WITH THE CONTRACTOR PRIOR TO ROUGHING IN.
17. PROVIDE A 15A-1P BREAKER IN EXISTING RP-1F TO MATCH EXISTING AND FEED EF-1 WITH 2 #12 RW90 IN 19MM EMT CONDUIT, VERIFY EXACT LOCATION OF EF-1 ON SITE PRIOR TO ROUGHING-IN.
18. ENSURE THAT ALL MISCELLANEOUS LOW VOLTAGE WIRING IS PROPERLY SUPPORTED FROM BUILDING STRUCTURE VIA "J-HOOKS" AND NOT LAY ON CEILING TILES/GRID SYSTEM. FOR EXAMPLE VOICE AND DATA/COMMUNICATION WIRING FROM WALL/PARTITIONS OR SERVICE POLE TO CABLE TRAY SHALL BE SUPPORTED BY "J-HOOKS".
19. UNLESS OTHERWISE NOTED IN THE SPECIFICATION ALL RECEPTACLES, THERMOSTATS, FIRE ALARM DEVICES, CARD READERS AND DOOR OPERATOR PUSH BUTTONS SHALL BE MOUNTED AT A MINIMUM OF 400MM A.F.F. ALL OTHER DEVICES NOT COVERED SHALL BE MOUNTED AT A MAXIMUM OF 1200MM A.F.F.
20. LINE VOLTAGE ON/OFF SWITCH COMPLETE WITH TIMER SUPPLIED BY THE CONTRACTOR AND INSTALLED BY THE CONTRACTOR. ALL WIRING AND TERMINATIONS TO TF-115 AND TF-125 SHALL BE PROVIDED BY THE CONTRACTOR. CO-ORDINATE EXACT LOCATION OF SWITCH/TIMER ON SITE WITH THE CONTRACTOR PRIOR TO ROUGHING-IN CONDUIT AND WIRING.

**St. Catharines - Transport Canada Office**

Job No. 12096

Voltage: **120 / 208**

Ph/Wire: **3/4**

Fed from: **Existing Power Panel PP**

# Panel Schedule

**RP-1F (EXISTING)**

Panel: RP-1F (EXISTING)
Date: August 29, 2016
Panel Mains:
Mounting: Surface
Tub Type: Double
Location: Corridor
Main Breaker:

| BRKR | * | DESCRIPTION | C [W] | d.f. | D [W] | cct | bus | cct | D [W] | d.f. | C [W] | DESCRIPTION | * | BRKR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 15A-1P | | General Corridor Receptacles | 500 | 0.6 | 300 | 1 | a | 2 | 300 | 0.6 | 500 | Receptacles 149 | | 15A-1P |
| 15A-1P | | General Corridor Receptacles | 500 | 0.6 | 300 | 3 | b | 4 | 300 | 0.6 | 500 | Receptacles 149 | | 15A-1P |
| 15A-1P | | General Corridor Receptacles | 500 | 0.6 | 300 | 5 | c | 6 | 300 | 0.6 | 500 | Receptacles 145, 146 | | 15A-1P |
| 15A-1P | | General 102 Receptacles | 500 | 0.6 | 300 | 7 | a | 8 | 300 | 0.6 | 500 | Receptacles 150 | | 15A-1P |
| 15A-1P | | EF-1-1 144 | 500 | 0.6 | 300 | 9 | b | 10 | 300 | 0.6 | 500 | Receptacles 151, 152 | | 15A-1P |
| 15A-1P | | EF-1-2 152 | 500 | 0.6 | 300 | 11 | c | 12 | 300 | 0.6 | 500 | Fridge 148 | | 15A-1P |
| 15A-1P | | Floor Receptacles 149 | 500 | 0.6 | 300 | 13 | a | 14 | 600 | 0.6 | 1000 | Split receept 148 | | 15A-1P |
| 15A-1P | | Floor Receptacles 149 | 500 | 0.6 | 300 | 15 | b | 16 | 600 | 0.6 | 1000 | Split receept 148 | | 15A-1P |
| 15A-1P | | Floor Receptacles 149 | 500 | 0.6 | 300 | 17 | c | 18 | 0 | 0.6 | | (Tran. Can.) Refrigerator | | 15A-1P |
| 15A-1P | | Floor Receptacles 149 | 500 | 0.6 | 300 | 19 | a | 20 | 300 | 0.6 | 500 | DH Stair 6 | | 15A-1P |
| 15A-1P | | Floor Receptacles 150 | 500 | 0.6 | 300 | 21 | b | 22 | 300 | 0.6 | 500 | DH 101, 141 | | 15A-1P |
| 15A-1P | | Floor Receptacles 150 | 500 | 0.6 | 300 | 23 | c | 24 | 0 | 0.6 | | (Tran. Can.) Rm. 115 | | 15A-1P |
| 15A-1P | | Floor Receptacles 151 | 500 | 0.6 | 300 | 25 | a | 26 | 300 | 0.6 | 500 | Parking Gate | | 15A-1P |
| 15A-1P | | Floor Receptacles 151 | 500 | 0.6 | 300 | 27 | b | 28 | 300 | 0.6 | 500 | Urinal & Lavs | | 15A-1P |
| 15A-1P | | (Tran. Can.) Recpt. Rm. 125 | | 0.6 | 0 | 29 | | c 30 | 300 | 0.6 | 500 | Drinking Fountain | | 15A-1P |
| 15A-1P | | Training room projector | 500 | 0.6 | 300 | 31 | a | 32 | 300 | 0.6 | 500 | Booster Fan 148 | | 15A-1P |
| 15A-1P | | A/C Unit in entrance | 500 | 0.6 | 300 | 33 | b | 34 | 300 | 0.6 | 500 | Booster Fan 144, 151 | | 15A-1P |
| 15A-1P | | (Tran. Can.) TV. Recpt. Rm. 125 | | 0.6 | 0 | 35 | | c 36 | 300 | 0.6 | 500 | Photocopier 144 | | 15A-1P |
| 20A-1P | | (Tran. Can.) Cable Tray Recpt. | | 0.6 | 0 | 37 | a | 38 | 0 | 0.6 | | (Tran. Can.) Mcrow ave | | 15A-1P |
| 20A-1P | | (Tran. Can.) Cable Tray Recpt. | | 0.6 | 0 | 39 | b | 40 | 0 | 0.6 | | (Tran. Can.) Kitchen + Recpt. | | 15A-1P |
| 15A-1P | | (Tran. Can.) 1 Wrkstn. + recpt. | | 0.6 | 0 | 41 | c | 42 | 0 | 0.6 | | (Tran. Can.) Bell/BU-1 + 3 Recpt. | | 15A-1P |
| 15A-1P | | Printer | 600 | 0.5 | 300 | 43 | a | 44 | 300 | 0.6 | 500 | WorkStation 173, 176 | | 15A-1P |
| 15A-1P | | WorkStation 160 | 500 | 0.6 | 300 | 45 | b | 46 | 300 | 0.6 | 500 | WorkStation 174, 175 | | 15A-1P |
| 15A-1P | | WorkStation 160 | 500 | 0.6 | 300 | 47 | c | 48 | 300 | 0.6 | 500 | WorkStation 173, 174, 175, 176 | | 15A-1P |
| 15A-1P | | Printer | 600 | 0.5 | 300 | 49 | a | 50 | 0 | 0.6 | | (Tran. Can.) Rm. 115 | | 15A-1P |
| 15A-1P | | WorkStation 162, 163 | 500 | 0.6 | 300 | 51 | b | 52 | 0 | 0.6 | | (Tran. Can.) Rm. 115 TV | | 15A-1P |
| 15A-1P | | WorkStation 161, 162, 163, 164 | 500 | 0.6 | 300 | 53 | c | 54 | 300 | 0.6 | 500 | WorkStation 177,178,179,180 | | 15A-1P |
| 15A-1P | | WorkStation 161, 164 | 500 | 0.6 | 300 | 55 | a | 56 | 300 | 0.6 | 500 | WorkStation 179 | | 15A-1P |
| 15A-1P | | WorkStation 166, 167 | 500 | 0.6 | 300 | 57 | b | 58 | 300 | 0.6 | 500 | WorkStation 177,178,179,180 | | 15A-1P |
| 15A-1P | | WorkStation 165, 166, 167, 168 | 500 | 0.6 | 300 | 59 | c | 60 | 300 | 0.6 | 500 | WorkStation 181, 182 | | 15A-1P |
| 15A-1P | | WorkStation 165, 168 | 500 | 0.6 | 300 | 61 | a | 62 | 300 | 0.6 | 500 | WorkStation 181, 182 | | 15A-1P |
| 15A-1P | | WorkStation 169, 170 | 500 | 0.6 | 300 | 63 | b | 64 | 300 | 0.6 | 500 | WorkStation 183 | | 15A-1P |
| 15A-1P | | WorkStation 169, 170 | 500 | 0.6 | 300 | 65 | c | 66 | 300 | 0.6 | 500 | WorkStation 183 | | 15A-1P |
| 15A-1P | | WorkStation 171, 172 | 500 | 0.6 | 300 | 67 | a | 68 | 300 | 0.6 | 500 | Building Control | | 15A-1P |
| 15A-1P | | WorkStation 171, 172 | 500 | 0.6 | 300 | 69 | b | 70 | 480 | 0.6 | 800 | DO | | 15A-1P |
| 15A-1P | | (Tran. Can.) 2 Wkrstn. | | | 0 | 71 | c | 72 | 480 | 0.6 | 800 | DO | | 15A-1P |
| 15A-1P | | (Tran. Can.) 2 Wkrstn. | | | 0 | 73 | a | 74 | 300 | 0.6 | 500 | Photocopier 146 | | 15A-1P |
| 15A-1P | | Motorized Wall Opener | 500 | 0.6 | 300 | 75 | b | 76 | 300 | 0.6 | 500 | Recept on Post RIC | | 15A-1P |
| 15A-1P | | Projector | 500 | 0.6 | 300 | 77 | c | 78 | 0 | 0.6 | | (Tran. Can.) Copier | | 15A-1P |
| 15A-1P | | A/U Receptacles | 500 | 0.6 | 300 | 79 | a | 80 | 0 | 0.6 | | (Tran. Can.) 2 Recpt. | | 15A-1P |
| 15A-1P | | (Tran. Can.) Office 118 | | 0.6 | 0 | 81 | b | 82 | 0 | 0.6 | | (Tran. Can.) Service Counter | | 15A-1P |
| 15A-1P | | (Tran. Can.) Office 118 | | 0.6 | 0 | 83 | c | 84 | 0 | 0.6 | | (Tran. Can.) 3 Recpt. | | 15A-1P |

| | |
|---|---|
| CONNECTED 'A' | 12200 W |
| CONNECTED 'B' | 12300 W |
| CONNECTED 'C' | 9300 W |

| | |
|---|---|
| 7200 W | DEMAND 'A' |
| 7380 W | DEMAND 'B' |
| 5580 W | DEMAND 'C' |

Notes: Existing Loads shown are assumptions as there is no site measurement

Remarks:

| | | |
|---|---|---|
| TOTAL DEMAND AMPS | 56.0 | A |
| TOTAL CONNECTED LOAD | 33.8 | kW |
| TOTAL DEMAND LOAD | 20.2 | kW |


Public Works and Government Services Canada
Architectural and Engineering Services Ontario Region
Travaux publics et Services gouvernementaux Canada
Services d'architecture et de génie Région de l'Ontario

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ENG. STAMP

PROJECT NORTH

| revision | date |
|---|---|
| 04 ISSUED FOR TENDER | 2016-10-11 |
| 03 ISSUED FOR TENDER REVIEW | 2016-09-02 |
| 02 ISSUED FOR 99% SUBMISSION | 2016-07-26 |
| 01 ISSUED FOR 66% PROGRESS | 2016-06-09 |

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
RENOVATION AND FIT UP FOR FOR TRANSPORT CANADA
32 CHURCH STREET
ST. CATHARINES, ONTARIO

drawing title / titre du dessin
GROUND FLOOR – NEW POWER AND SYSTEMS LAYOUT

drawn by / dessine par: SH
designed by / conc par: AO
approved by / approuve par: AO/DS
bid / offre
project manager / administrateur de projets
project date / date du projet: 2016.10.11
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