

TENDER 2016.06.08

EXISTING BUILDING RENOVATION

ST. PAUL, ALBERTA

Stantec Project #: 144202775.200

ARCHITECT:

STANTEC ARCHITECTURE LTD.

325 - 25 ST SE
CALGARY, AB
T2A 7H8

| INDEX - ARCHITECTURAL | |
|-----------------------|--|
| NO. | DRAWING NAME |
| A000 | COVER |
| A001 | GENERAL NOTES, LEGENDS, CODE MATRIX, SCHEDULES & ABBREVIATIONS |
| A111 | BASEMENT DEMOLITION & CONSTRUCTION PLANS |
| A151 | BASEMENT DEMOLITION & CONSTRUCTION REFLECTED CEILING PLANS |
| A301 | SECTIONS & DETAILS |
| A401 | ENLARGED VIEWS & INTERIOR ELEVATIONS |
| A601 | DETAILS |

STRUCTURAL ENGINEER:

STANTEC CONSULTING LTD.

325 - 25 ST SE
CALGARY, AB
T2A 7H8

| INDEX - STRUCTURAL | |
|--------------------|-----------------------------------|
| NO. | DRAWING NAME |
| S001 | DESIGN NOTES |
| S101 | FLOOR PLANS, SECTIONS AND DETAILS |

MECHANICAL ENGINEER:

STANTEC CONSULTING LTD.

325 - 25 ST SE
CALGARY, AB
T2A 7H8

| INDEX - MECHANICAL | |
|--------------------|---|
| NO. | DRAWING NAME |
| M001 | MECHANICAL LEGEND, SCHEDULES AND DRAWING LIST |
| M101 | BASEMENT - MECHANICAL DEMOLITION & RENOVATION PLANS |
| M102 | MECHANICAL ROOF PLAN |
| M201 | MECHANICAL SECTIONS |
| M301 | MECHANICAL DETAILS |
| M302 | MECHANICAL DETAILS |

ELECTRICAL ENGINEER:

STANTEC CONSULTING LTD.

325 - 25 ST SE
CALGARY, AB
T2A 7H8

| INDEX - ELECTRICAL | |
|--------------------|---|
| NO. | DRAWING NAME |
| E001 | ELECTRICAL SYMBOL, LEGEND, NOTES, SCHEDULE AND DRAWING LIST |
| E100 | BASEMENT DEMOLITION FLOOR PLAN - LIGHTING, POWER AND SYSTEM |
| E200 | BASEMENT FLOOR PLAN - LIGHTING, POWER AND SYSTEM |
| E300 | BASEMENT FLOOR PLAN - COLOR LIGHTING MAP |
| E400 | ELECTRICAL DETAILS AND MECHANICAL EQUIPMENT SCHEDULE |



Seal Block

Copyright Reserved

Consultants

Notes

| EXIT ACCESS TRAVEL DISTANCE SUMMARY | |
|-------------------------------------|---------------------|
| EXIT ROUTE | TRAVEL DISTANCE (m) |
| EXIT A | 9.35 |
| EXIT B | 2.30 |
| EXIT C | 7.02 |

[illegible]

Permit-Seal

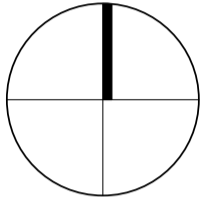
ST. PAUL, ALBERTA

| | |
|---------------|---------|
| Project No. | Scale |
| 144202775.200 | 1 : 100 |

A111

1 **BAS**
A111 1 : 100

2 BAS
A111 1 : 100



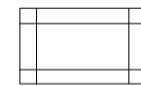
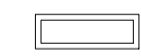

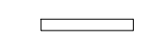
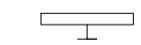


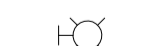


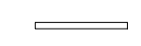

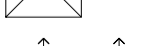


| KEYNOTES DEMOLITION - A151 | |
|----------------------------|---|
| KEYNOTE | DESCRIPTION |
| 01 | EXISTING CEILING MOUNTED BAFFLE AND RANGE LIGHTING TO BE DEMOLISHED |
| 02 | EXISTING SUSPENDED CEILING TO BE DEMOLISHED |
| 03 | EXISTING LANE DIVIDER SYSTEM TO BE DEMOLISHED x5 |
| 04 | EXISTING TARGET RETRIEVAL SYSTEM TO BE DEMOLISHED x4 |
| 05 | EXISTING BULLET TRAP TO BE DEMOLISHED |
| 06 | EXISTING ACOUSTIC WALL TO BE DEMOLISHED |
| 07 | EXISTING SUSPENDED CEILING TO REMAIN - PATCH AND REPAIR AS REQUIRED |

| KEYNOTES GENERAL - A151 | |
|-------------------------|--|
| KEYNOTE | DESCRIPTION |
| 01 | LIGHT ALCOVE |
| 02 | GRANULATED BULLET TRAP SYSTEM |
| 03 | 1220mm REDIRECTIVE GUARD C/W 30 DEGREE SLOPE |

CEILING TYPES

| | |
|--------|--|
| ACT-1 | NEW T-BAR CEILING SYSTEM 610mm x 1220mm ACOUSTIC TILE C/W SUSPENSION SYSTEM |
| GWB | GYPSUM BOARD CEILING, SUSPENDED, PAINTED MATCH EXISTING GWB CONSTRUCTION IN RANGE |
| GWB-EX | EXISTING GYPSUM BOARD CEILING |
| SC-1 | -50mm OPEN CELL FOAM/ACOUSTICAL MATERIAL (AP-1) -10 GAUGE STEEL PLATE PANEL -13mm FIRE RATED TREATED PLYWOOD SHEATHING -38x89mm FIRE RATED TREATED WOOD STRAPPING AT 400mm OC |

CEILING LEGEND

| | |
|---|--|
|  | ACOUSTIC TILE |
|  | SURFACE MOUNTED OR SUSPENDED FLUORESCENT LUMINAIRE |
|  | RECESSED FLUORESCENT LUMINAIRE |
|  | FLUORESCENT STRIP LUMINAIRE |
|  | WALL MOUNTED LINEAR FLUORESCENT LUMINAIRE |
|  | RECESSED LUMINAIRE / POT LIGHT |
|  | SURFACE MOUNTED OR SUSPENDED LUMINAIRE |
|  | STEP OR WALL MOUNTED LUMINAIRE |
|  | LUMINAIRE ON EMERGENCY CIRCUIT (INDICATED BY HALF SHADING) |
|  | WALL MOUNTED GRILL/REGISTER |
|  | LINEAR DIFFUSER |
|  | CEILING SUPPLY DIFFUSER |
|  | AIR FLOW ARROWS |
|  | GAS FIRED UNIT HEATER |
|  | CEILING EXHAUST GRILLE |

Revision

TENDER
Issued

Permit-Seal

Client/Project
GOVERNMENT OF CANADA

EXISTING BUILDING RENOVATION

ST. PAUL, ALBERTA

Title
BASEMENT DEMOLITION & CONSTRUCTION REFLECTED CEILING PLANS

Project No. 144202775.200
Revision

Scale
1 : 100

Drawing No.

Sheet
3 of 6

A151

1

2

3

4

5

6

7

A

B

C

D

E

1

A151

BASEMENT DEMOLITION REFLECTED CEILING PLAN

1 : 100

2

A151

BASEMENT CONSTRUCTION REFLECTED CEILING PLAN

1 : 100

Copyright Reserved

The Contractor shall verify and be responsible for all dimensions. DO NOT scale the drawing - any errors or omissions shall be reported to Stantec without delay.
The Copyrights to all designs and drawings are the property of Stantec. Reproduction or use for any purpose other than that authorized by Stantec is forbidden.

Consultants

Legend

Notes

Revision

TENDER

Issued

Permit-Seal

Client/Project

GOVERNMENT OF CANADA

EXISTING BUILDING RENOVATION

ST. PAUL, ALBERTA

Title

SECTIONS & DETAILS

Project No.

144202775.200

Revision

Scale

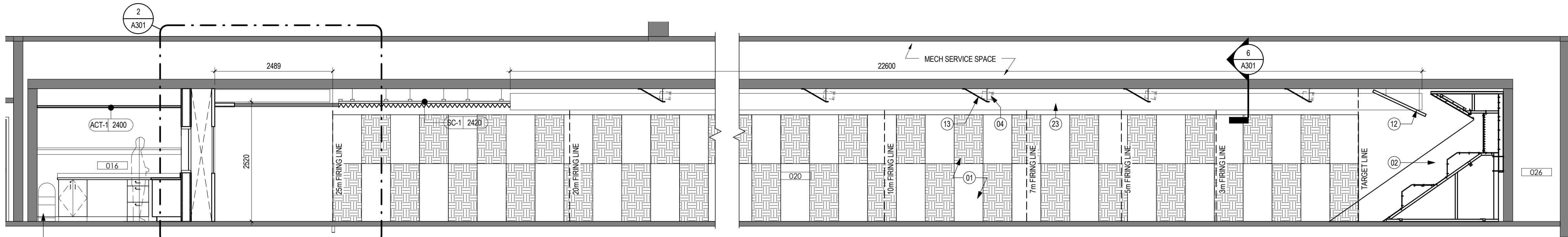
As indicated

Drawing No.

Sheet

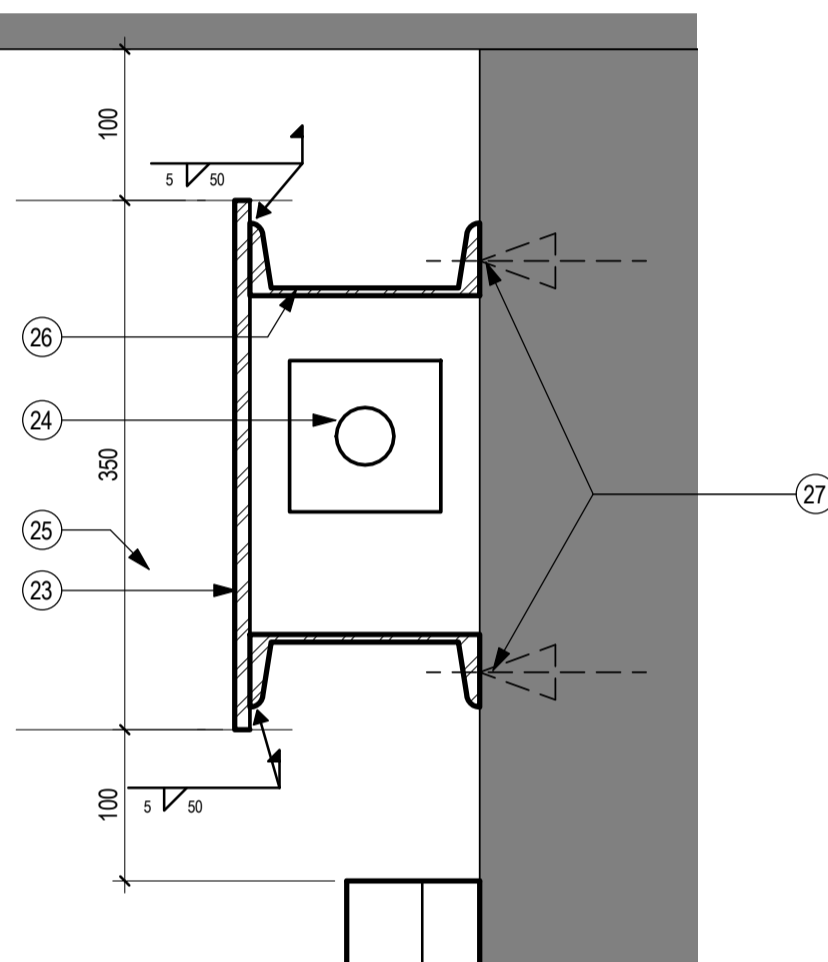
4 of 6

A301



1 BUILDING SECTION

A301 1 : 50

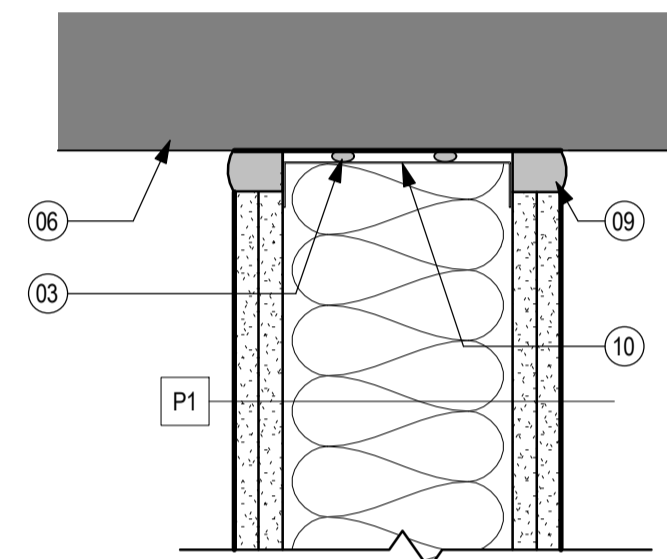


6 SECTION DETAIL

A301 1 : 5

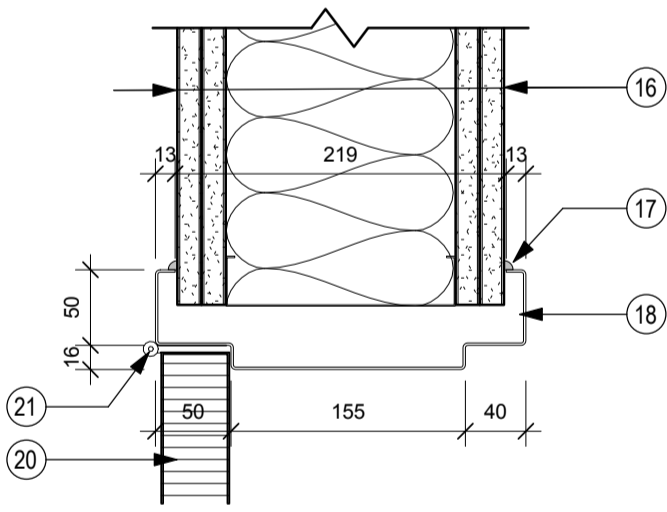
3 ACOUSTIC WALL DETAIL

A301 1 : 5



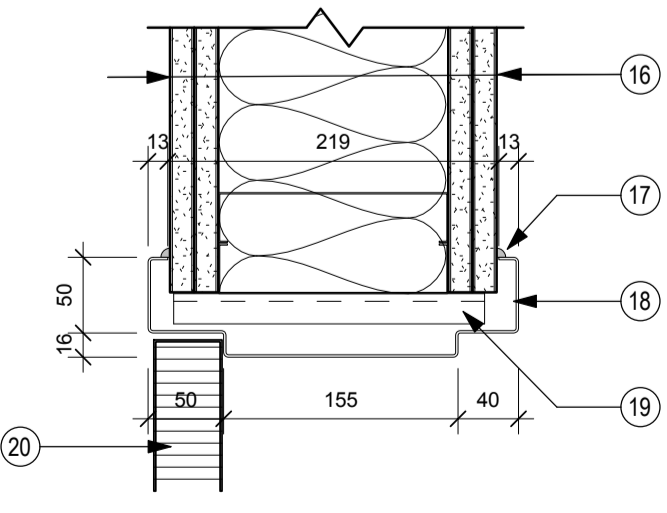
4 WRAP AROUND FRAME HEAD AT STUD DETAIL

A301 1 : 5

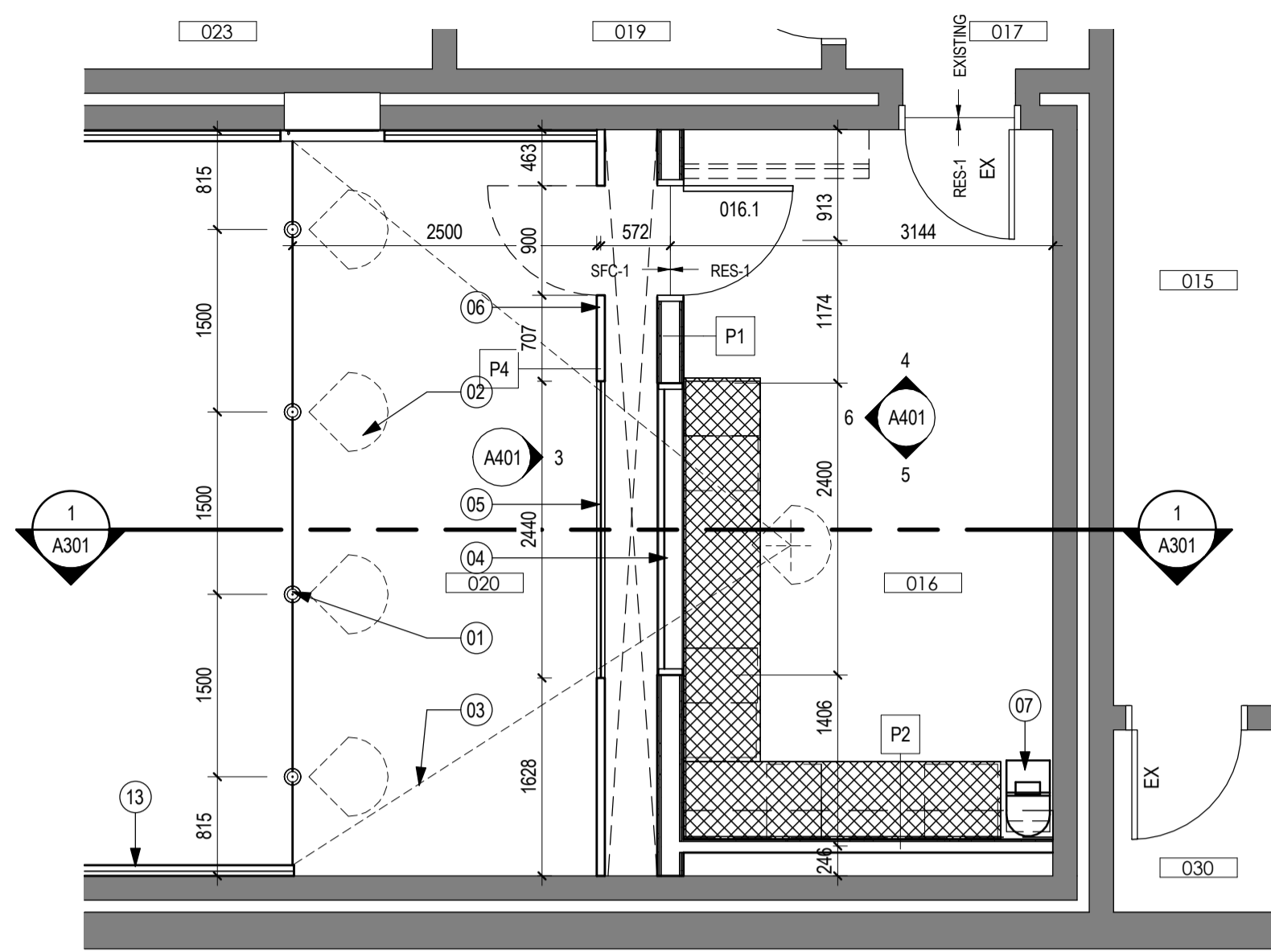


5 WRAP AROUND FRAME JAMB AT STUD DETAIL

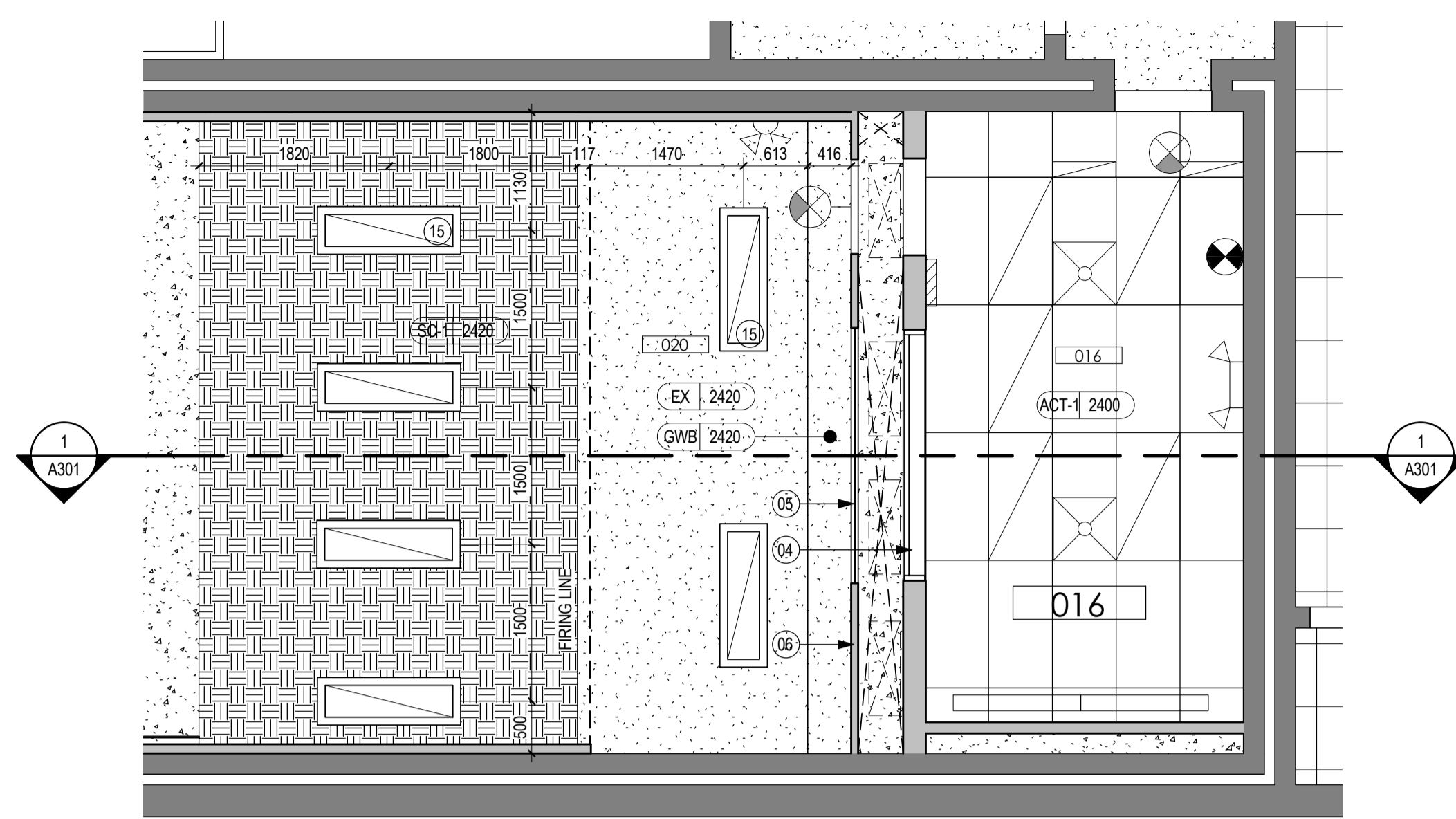
A301 1 : 5



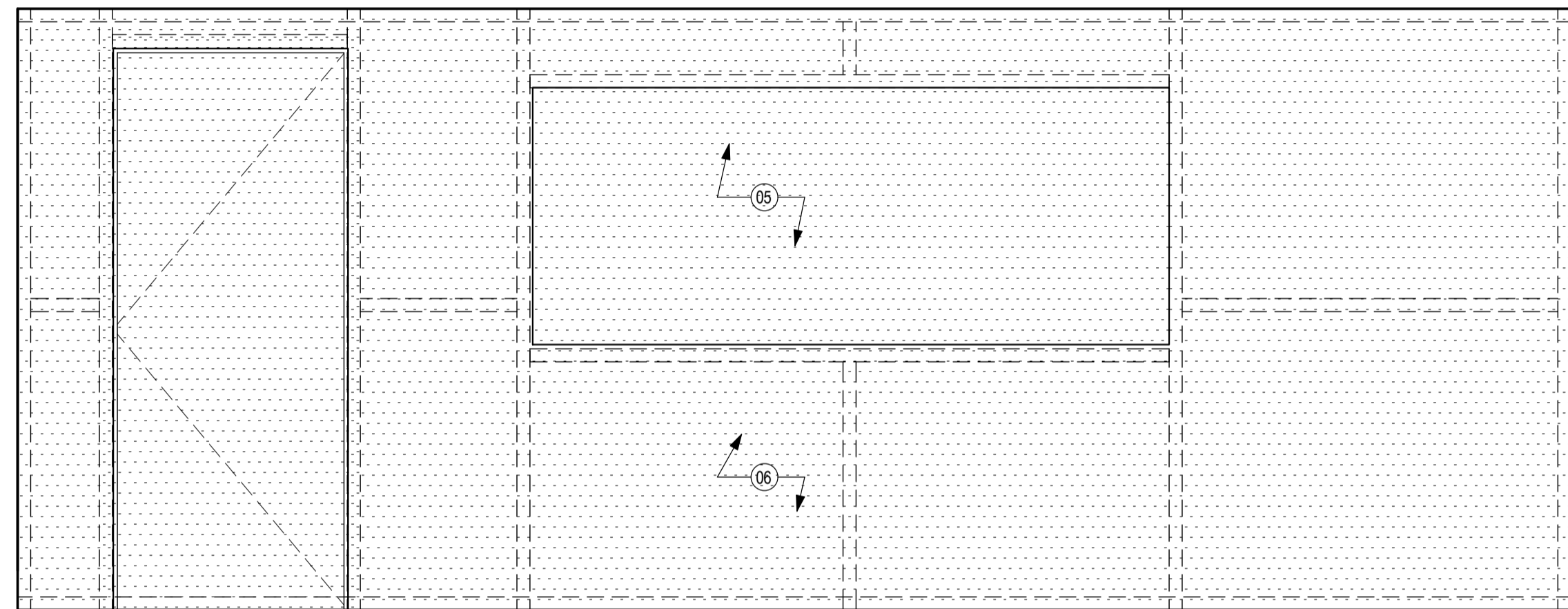
| KEYNOTES GENERAL - A301 | |
|-------------------------|---|
| KEYNOTE | DESCRIPTION |
| 01 | COMBAT WALL PLATE CONSISTING OF 25mm RUBBER FACING W/ 10mm AR500 ARMOUR BACKING PLATE ON 13mm FIRE RATE PLYWOOD SHEATHING AND FIRE RATED 38x89mm WOOD STRAPPING LAY ON LONG EDGE @ 400mm OC TO EXTEND FROM FIRING LANE TO BULLET TRAP SIDEWALLS TO 2440mm IN HEIGHT |
| 02 | GRANULATED BULLET TRAP SYSTEM |
| 03 | 2x CONTINUOUS BEADS OF ACOUSTICAL SEALANT TOP AND BOTTOM OF WALL |
| 04 | RANGE LIGHTING |
| 05 | EXISTING MECHANICAL DUCT TO REMAIN |
| 06 | EXISTING FLOOR TO REMAIN |
| 07 | PERFORATED POLYCARBONATE LAMINAR AIR WALL |
| 08 | PERFORATED SHEET METAL LAMINAR AIRWALL |
| 09 | CONTINUOUS ACOUSTIC SEALANT |
| 10 | SLOTTED DEFLECTION TRACK |
| 11 | STC 55 SOUND CONTROL WINDOW |
| 12 | 1220mm REDIRECTIVE GUARD C/W 30 DEGREE SLOPE |
| 13 | LIGHT ALCOVE |
| 14 | EXISTING GYPSUM BOARD BULKHEAD TO REMAIN, PATCH REPAIR AND MAKE GOOD EXISTING SURFACE AND PAINT |
| 15 | NEW GYPSUM BOARD BULKHEAD TO MATCH EXISTING ADJACENT BULKHEAD CONSTRUCTION HEIGHT AND FINISH. PROVIDE SEAMLESS TRANSITION BETWEEN NEW AND EXISTING |
| 16 | PARTITION AS NOTED ON DRAWING |
| 17 | CONTINUOUS SEALANT (BOTH SIDES) |
| 18 | PRESSED STEEL FRAME |
| 19 | TYPICAL STEEL STUD ANCHOR |
| 20 | TYPICAL ACOUSTIC DOOR |
| 21 | TYPICAL HINGE |
| 22 | GUN CLEANING TRAP |
| 23 | 10mm AR500 STEEL ARMOUR PLATE |
| 24 | RADIANT FIN TUBE |
| 25 | BAFFLE BEYOND NOTCH OUT FOR CONTINUATION OF RADIANT FIN TUBE |
| 26 | C150x12x100 LONG @ 600mm OC TOP AND BOTTOM |
| 27 | 13mm DIAMETER HILTI W/ THREADED ROD INSERT, TAPERED WASHER EMBED MINIMUM 125mm W/ HILTI HY-200 |



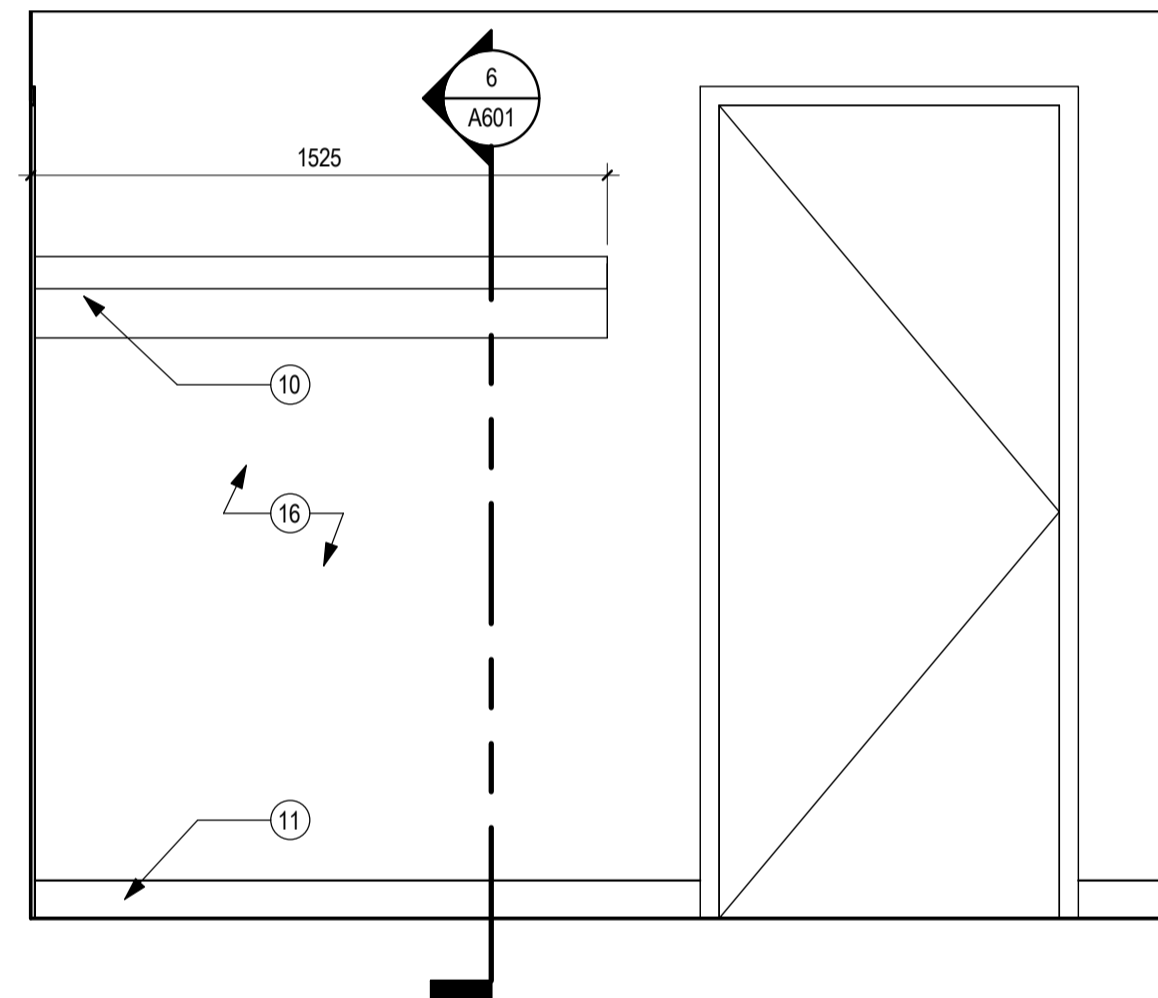
1 **ENLARGED ROOM 016 PLAN**
A401 1 : 50



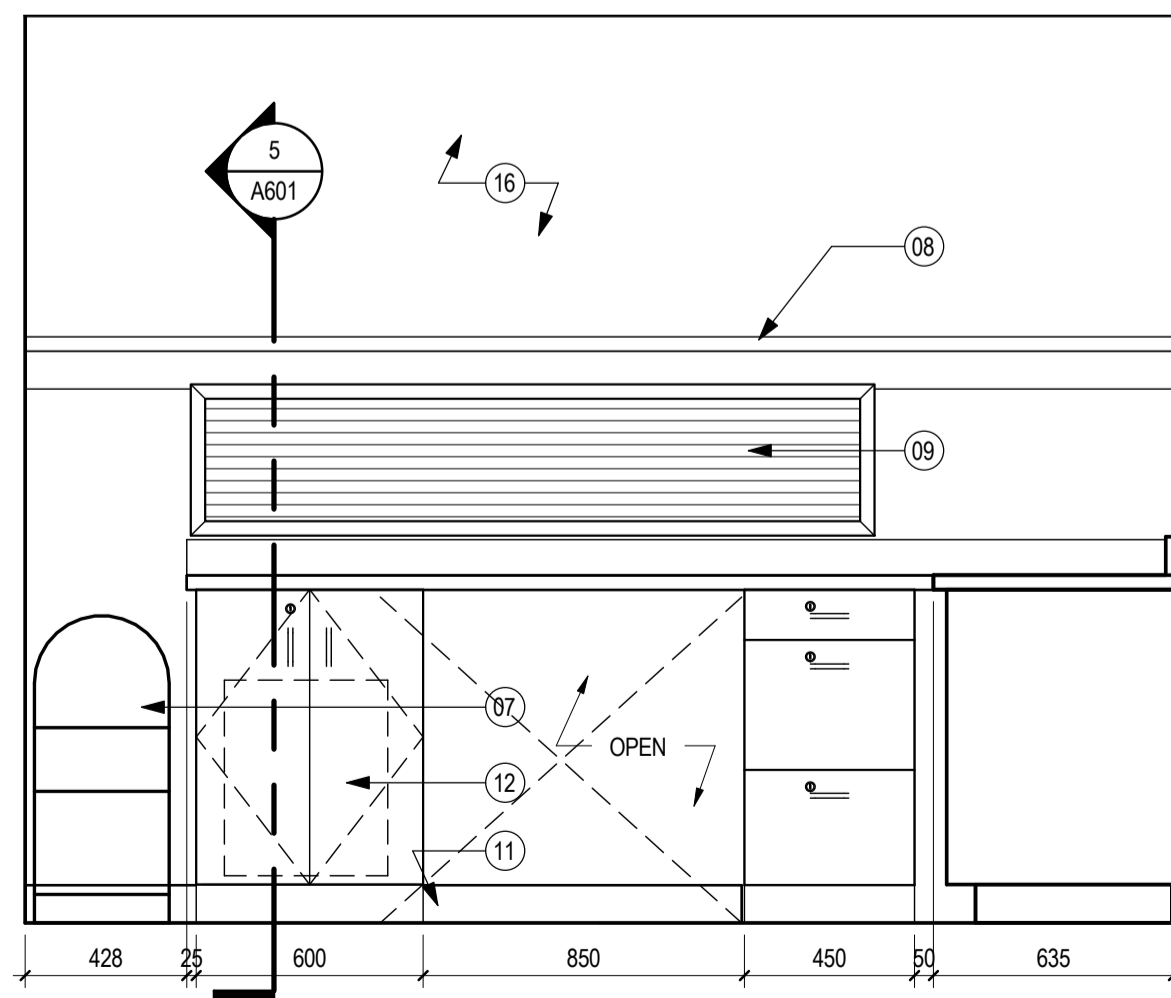
2 ENLARGED ROOM 016 REFLECTED CEILING PLAN



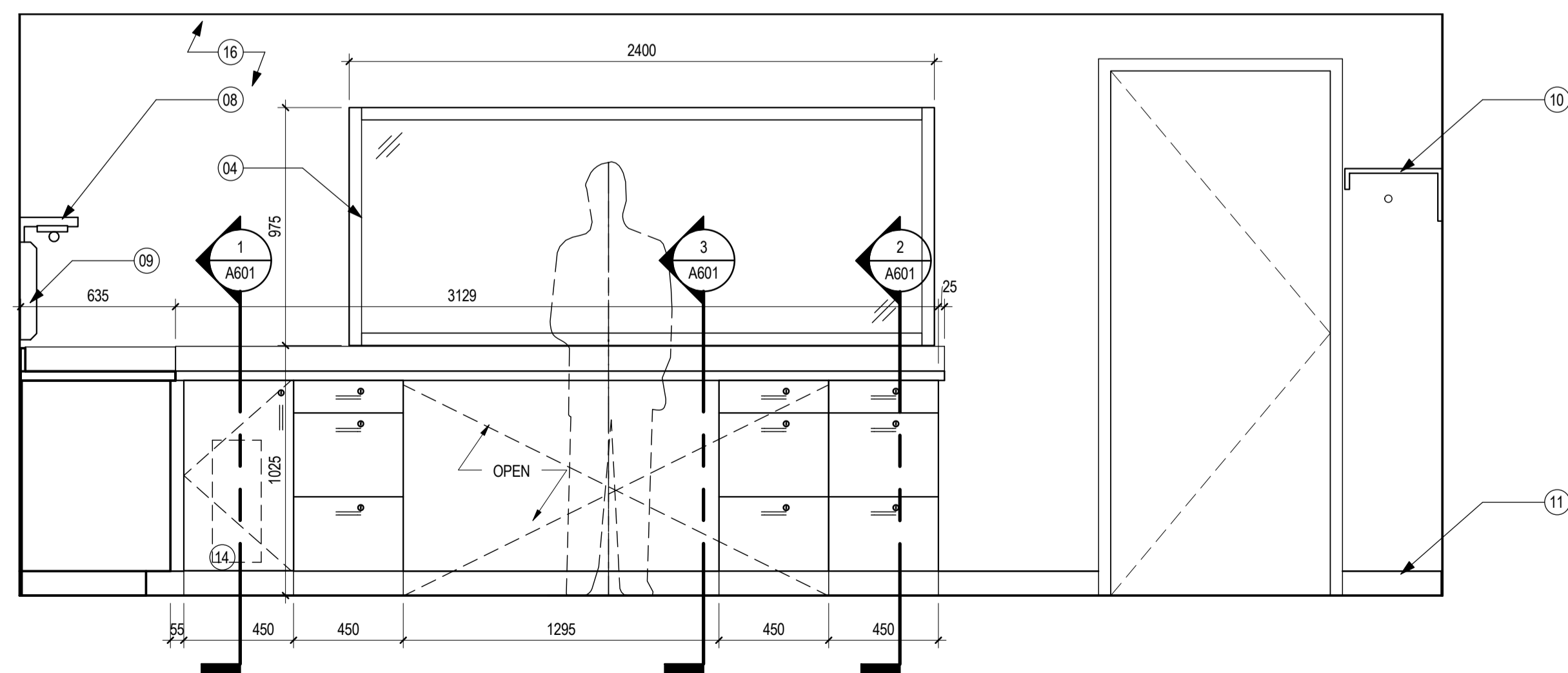
ROOM 020 - EAST ELEVATION



ROOM 016 - NORTH ELEVATION



ROOM 016 - SOUTH ELEVATION



ROOM 016 - WEST ELEVATION

PARTITION TYPES

P1 - TYPICAL ACOUSTIC PARTITION
STC 59 PER ABC TABLE 9.10.3.1.A

- 16mm TYPE X GYPSUM BOARD
- 16mm TYPE X GYPSUM BOARD
- 152mm STEEL STUDS @ 400mm OC C/W SOUND ATTENUATING BATT INSULATION
- 16mm TYPE X GYPSUM BOARD
- 16mm TYPE X GYPSUM BOARD

P2 - TYPICAL FURRING WALL

-16mm TYPE X GYPSUM BOARD
-92mm STEEL STUDS @ 400mm OC

CEILING TYPES

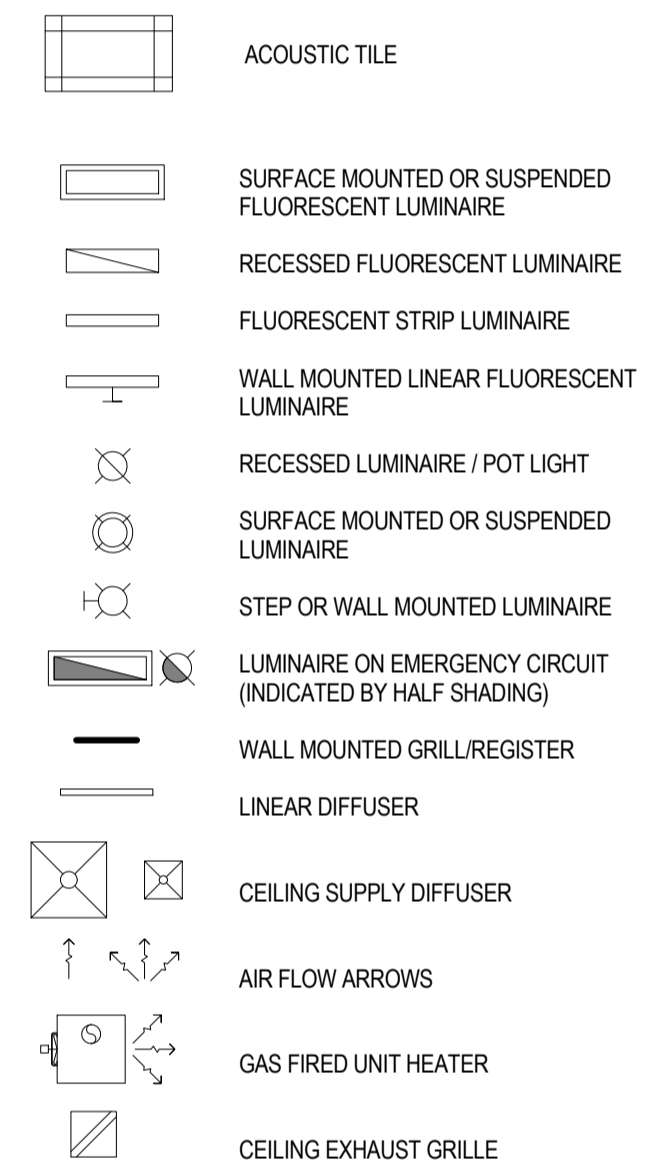
ACT-1 NEW T-BAR CEILING SYSTEM 610mm x 1220mm
ACOUSTIC TILE C/W SUSPENSION SYSTEM

GWB GYPSUM BOARD CEILING, SUSPENDED, PAINTED
MATCH EXISTING GWB CONSTRUCTION IN RANGE

GWB-EX EXISTING GYPSUM BOARD CEILING

| | |
|------|--|
| SC-1 | -50mm OPEN CELL FOAM/ACOUSTICAL MATERIAL (AP-1) -10 GAUGE STEEL PLATE PANEL -13mm FIRE RATED TREATED PLYWOOD SHEATHING -38x89mm FIRE RATED TREATED WOOD STRAPPING AT 400mm OC |
|------|--|

CEILING LEGEND



STANTEC ARCHITECTURE LTD.
200-325 25 St SE
CALGARY, AB T2A 7H8
Tel: (403) 716-8000 / Fax: (403) 716-8049

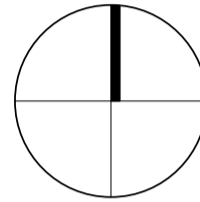
Copyright Reserved

The Contractor shall verify and be responsible for all dimensions. DO NOT scale the drawing - any errors or omissions shall be reported to Stantec without delay.

The Copyrights to all designs and drawings are the property of Stantec. Reproduction or use for any purpose other than that authorized by Stantec is forbidden.

Consultants

Legend



| KEYNOTES GENERAL - A401 | |
|-------------------------|--|
| KEYNOTE | DESCRIPTION |
| 01 | RECESSED FLOOR SLEEVE PROVIDE AT EACH SHOOTING STATION |
| 02 | POSITION OF SHOOTER |
| 03 | CONTROL ROOM FIELD OF VIEW |
| 04 | STC 55 SOUND CONTROL WINDOW |
| 05 | PERFORATED POLYCARBONATE LAMINAR AIR WALL |
| 06 | PERFORATED SHEET METAL LAMINAR AIRWALL |
| 07 | GUN CLEANING TRAP |
| 08 | TASK SHELF C/W VALENCE LIGHTING |
| 09 | EXHAUST HOOD |
| 10 | COAT ROD & SHELF |
| 11 | BASE TYPICAL |
| 12 | AIR COMPRESSOR LOCATED IN CABINET, PROVIDE VENT HOLES IN DOOR PANELS REFER TO TYPICAL DETAIL |
| 13 | COMBAT WALL PLATE CONSISTING OF 25mm RUBBER FACING W/ 10mm AR500 ARMOUR BACKING PLATE ON 13mm FIRE RATE PLYWOOD SHEATHING AND FIRE RATED 38x89mm WOOD STRAPPING LAY ON LONG EDGE @ 400mm O/C TO EXTEND FROM FIRING LANE TO BULLET TRAP SIDEWALLS TO 2440mm IN HEIGHT |
| 14 | COMPUTER TOWER STORAGE PROVIDE VENT HOLES IN DOOR PANEL REFER TO TYPICAL DETAIL |
| 15 | SURFACE MOUNTED LIGHT FIXTURE |
| 16 | GYPSUM BOARD PAINT TYPICAL |

| | | | |
|----------|----|------|------------|
| Revision | By | Appd | YYYY.MM.DD |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| TENDER | HM | EV | 2016.06.08 |
| Issued | By | Appd | YYYY.MM.DD |

Permit-Seal

Client/Project
GOVERNMENT OF CANADA

EXISTING BUILDING RENOVATION

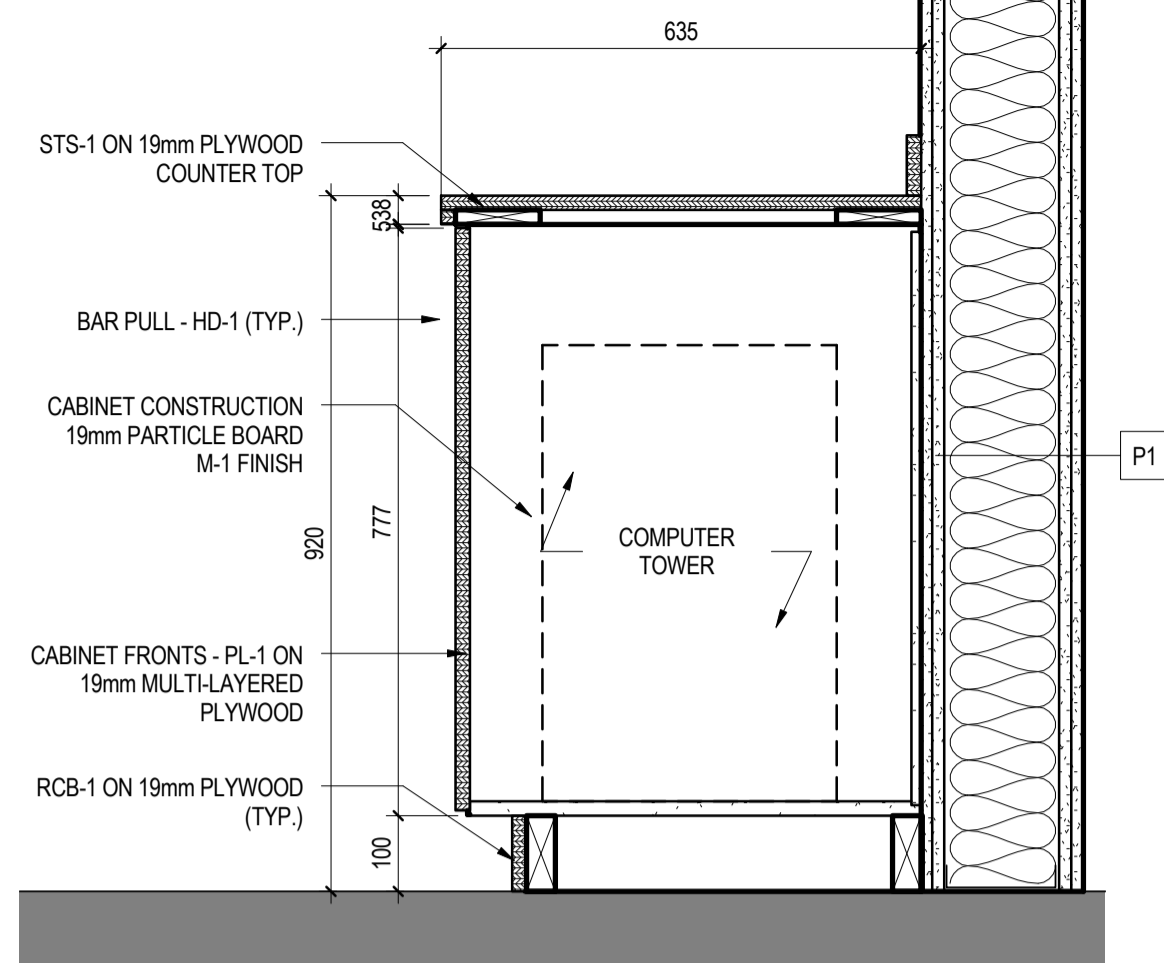
ST. PAUL, ALBERTA

Title
ENLARGED VIEWS & INTERIOR ELEVATIONS

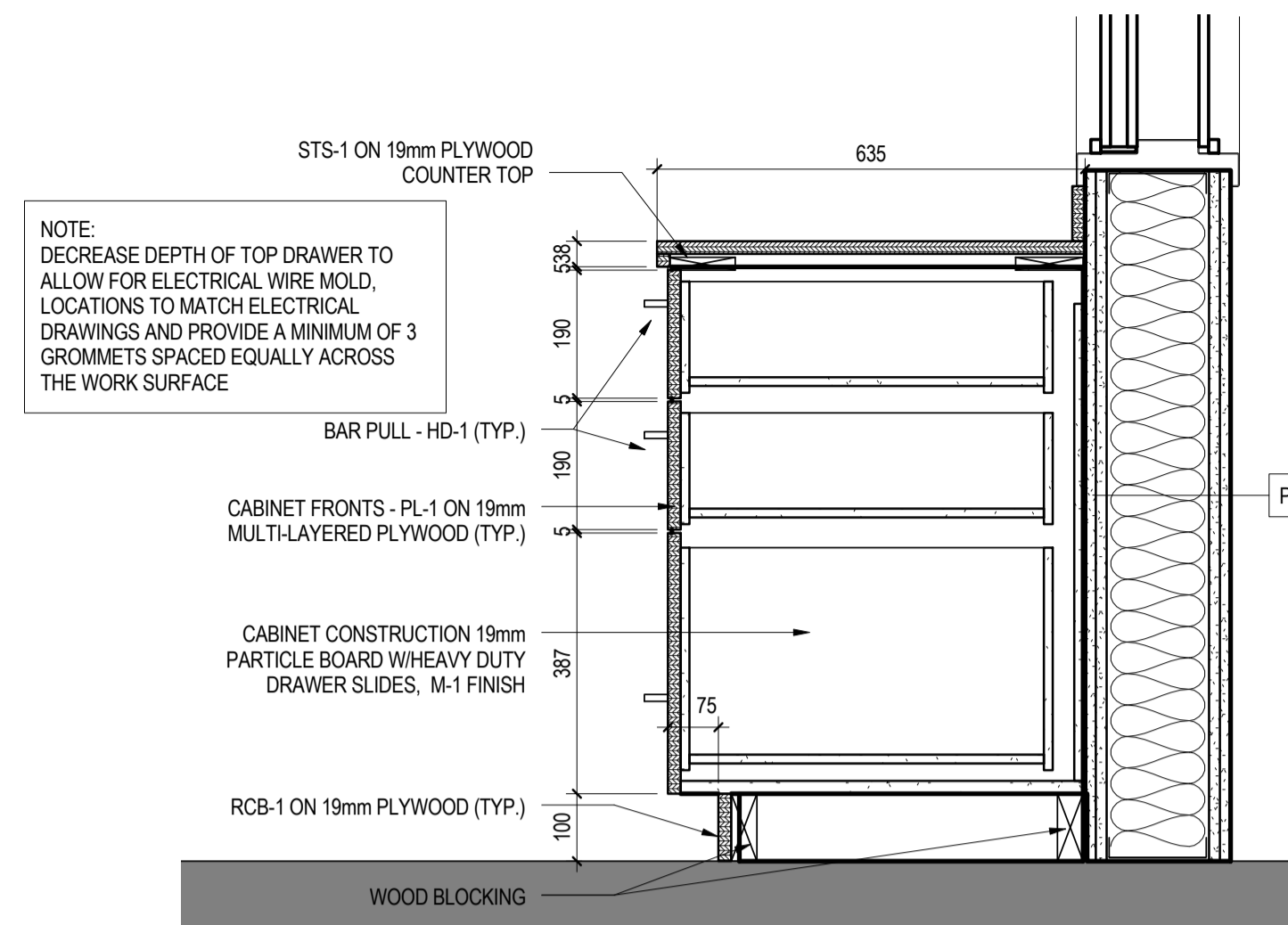
| | |
|------------------------------|-----------------------|
| Project No. 144202775.200 | Scale As indicated |
| Revision | Drawing No. |

Sheet
5 of 6

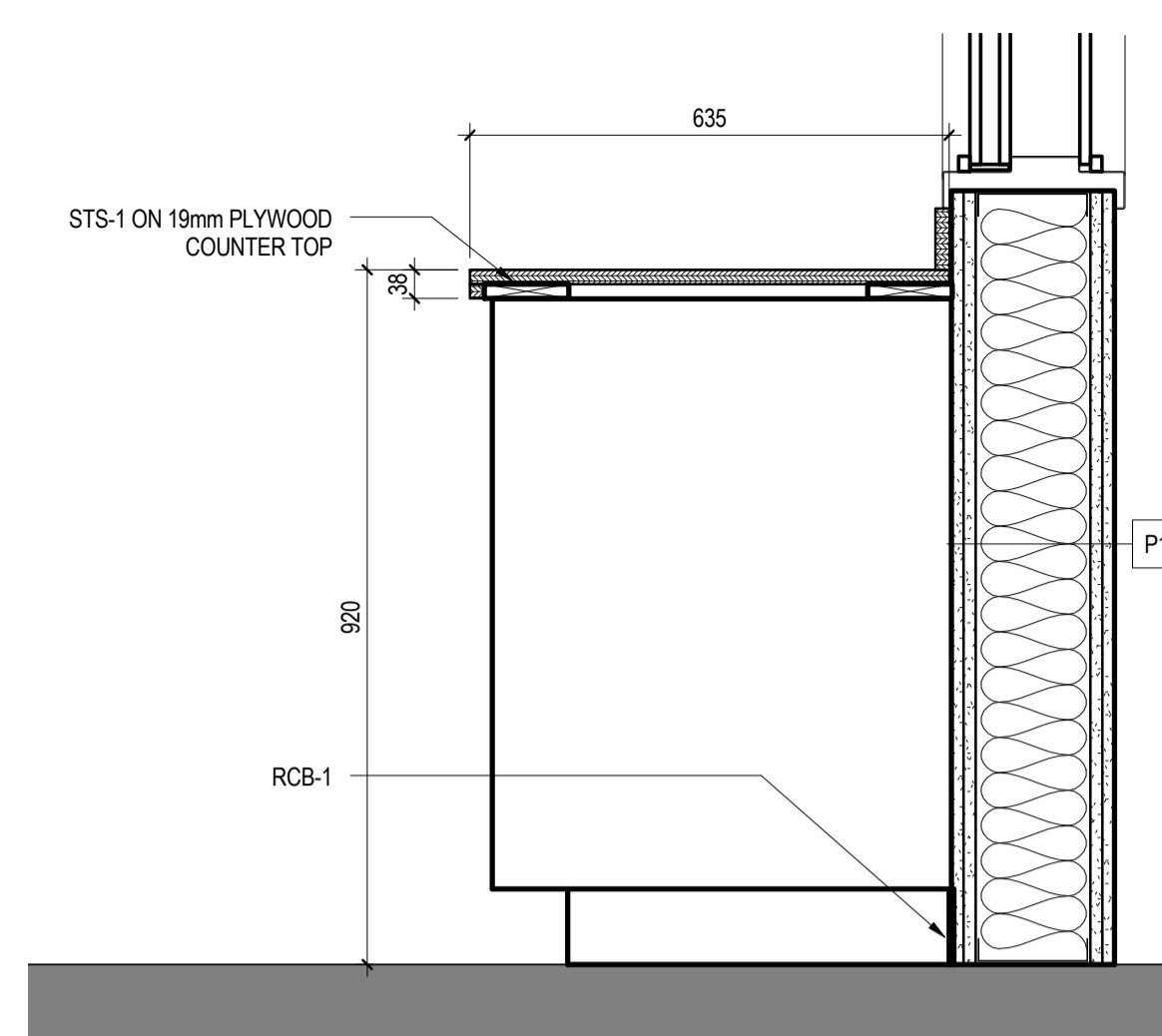
A401



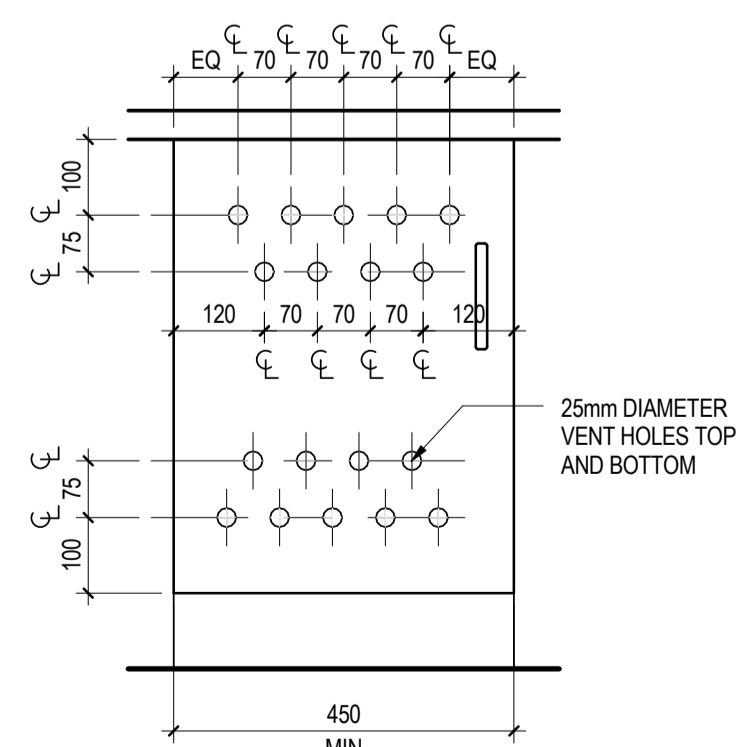
1 LOWER CABINET NO SHELF



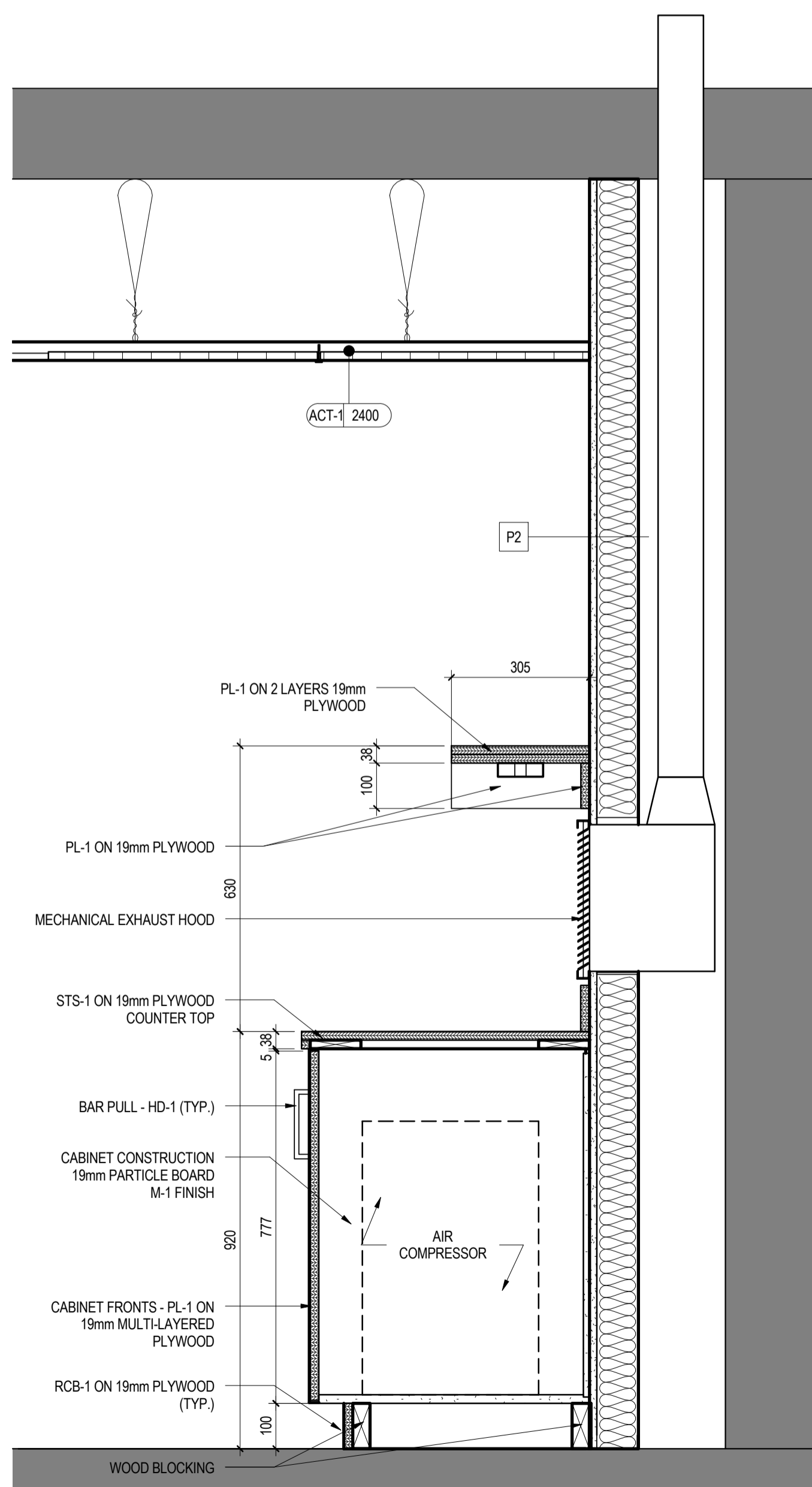
2 LOWER CABINET 3 DRAWER
A601 1 : 10



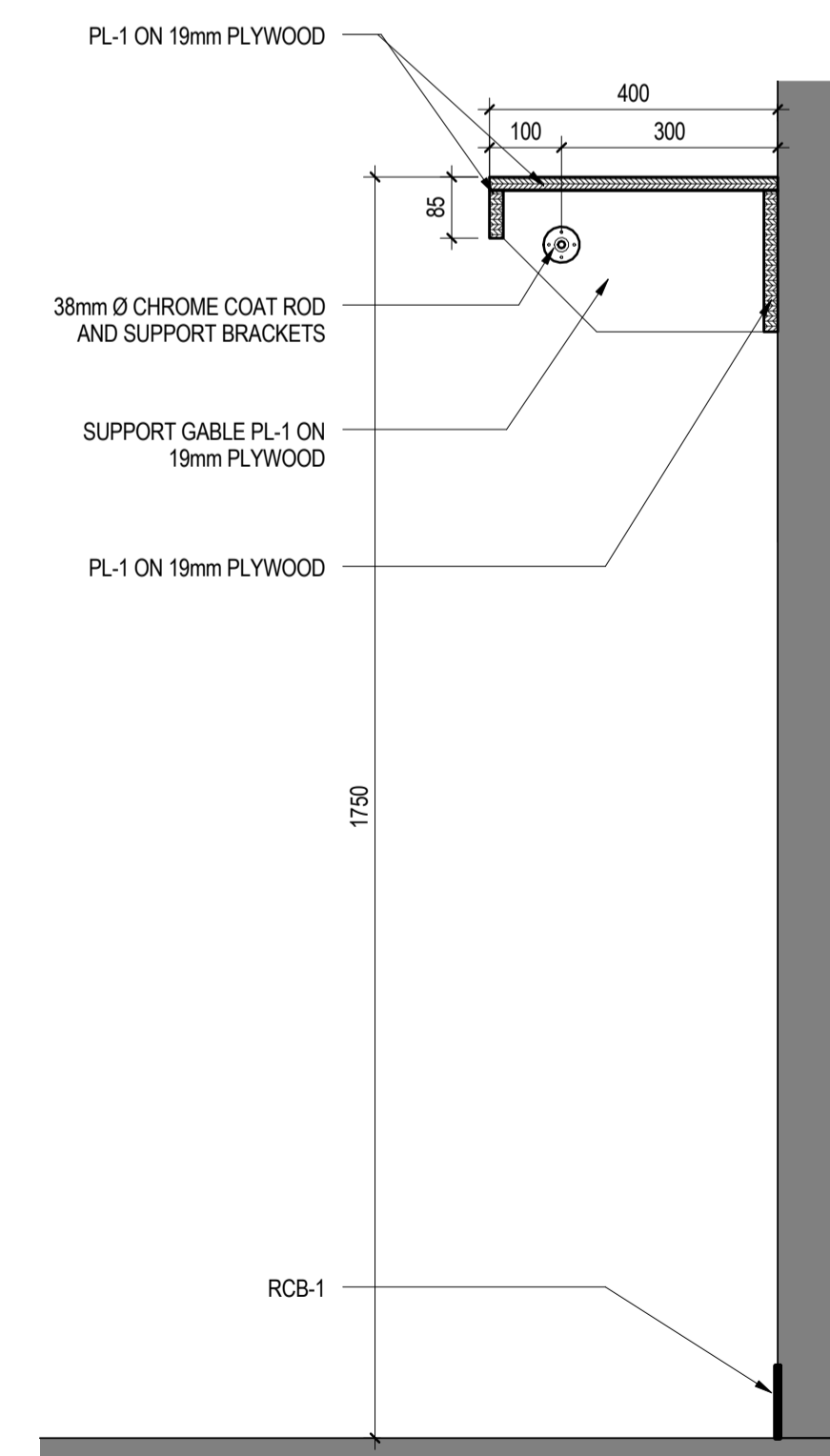
3 LOWER CABINET OPEN BELOW
A601 1 : 10



4 TYPICAL VENTED CABINET DETAIL



5 LOWER CABINET AND SHELF DETAIL
A601 1:10



6 COAT ROD AND SHELF DETAIL
A601 1 : 10



STANTEC ARCHITECTURE LTD.
200-325 25 St SE
CALGARY, AB T2A 7H8
Tel: (403) 716-8000 / Fax: (403) 716-8049

www.stantec.com

Copyright Reserved

The Contractor shall verify and be responsible for all dimensions. DO NOT scale the drawing - any errors or omissions shall be reported to Stantec without delay.

The Copyrights to all designs and drawings are the property of Stantec. Reproduction or use for any purpose other than that authorized by Stantec is forbidden.

Consultants

Legend

Notes

| | | | |
|----------|----|------|------------|
| Revision | By | Appd | YYYY.MM.DD |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| TENDER | HM | EV | 2016.06.08 |
| Issued | By | Appd | YYYY.MM.DD |

Permit-Seal

Client/Project
GOVERNMENT OF CANADA

EXISTING BUILDING RENOVATION

ST. PAUL, ALBERTA

Title

DETAILS

Project No.

144202775.200

Revision

Sheet

6 of 6

A601

| | |
|-----------------------------|----------|
| SNOW LOAD (1/50), S_s | 1.9 kPa |
| SNOW LOAD (1/50), S_r | 0.1 kPa |
| ONE DAY RAIN (1/50) | 75 mm |
| HOURLY WIND PRESSURE (1/10) | 0.29 kPa |
| HOURLY WIND PRESSURE (1/50) | 0.37 kPa |

| | |
|----------------------------|--------------|
| IMPORTANCE CATEGORY | HIGH |
| WIND EXPOSURE TYPE | OPEN TERRAIN |
| INTERNAL PRESSURE CATEGORY | 2 |

| | | | |
|----------------|---------------------------------|-----------|--------------------------------------|
| A.B. or A.BOLT | ANCHOR BOLT | LOC | LOCATION |
| A.I.F. | ASPHALT IMPREGNATED FIBRE BOARD | LONGIT | LONGITUDINAL |
| ABT | ABOUT | M.H | MANHOLE |
| ABUT | ABUTMENT | M.S | MILD STEEL |
| ADDL | ADDITIONAL | MAX | MAXIMUM |
| ALUM | ALUMINIUM | MECH | MECHANICAL |
| APPROX or | APPROXIMATELY | MEZZ | MEZZANINE |
| ARCH | ARCHITECT | MIN | MINIMUM |
| ARND | AROUND | MISC | MISCELLANEOUS |
| B or BOT | BOTTOM | N.D. BARS | NELSON DEFORMED BARS |
| B.U. | BUILT UP | N.I.C. | NOT IN CONTRACT |
| BLK | BLOCK | N.S | NEAR SIDE or NELSON STUD |
| BLL | BOTTOM LOWER LAYER | N.T.S. | NOT TO SCALE |
| BM | BEAM | NO or # | NUMBER |
| BRG | BEARING | O.D. | OUTSIDE DIAMETER |
| BTWN | BETWEEN | O.F. | OUTSIDE FACE |
| BUL | BOTTOM UPPER LAYER | OPNG | OPENING |
| C.B. | CATCH BASIN | OPP | OPPOSITE |
| C.I.P. | CAST IN PLACE | OWSJ | OPEN WEB STEEL JOIST |
| C.J. | CONSTRUCTION JOINT | P.L. | PROPERTY LINE |
| C.L. or | CENTRE LINE | P/C | PRECAST |
| C/C | CENTRE TO CENTRE | P/T | POST TENSIONED |
| C/W | COMPLETE WITH | PERIM | PERIMETER |
| COL | COLUMN | PERP | PERPENDICULAR |
| CONC | CONCRETE | PKG | PACKAGE |
| CONN | CONNECTION | PL. | PLATE |
| CONT | CONTINUOUS | PLY | PLYWOOD |
| D or DP | DEPTH | PROJ | PROJECT |
| DIA or Ø | DIAMETER | PTD | PAINTED |
| DIAG | DIAGONAL | R or RAD | RADIUS |
| DO or do | DITTO | R.D. | ROOF DRAIN |
| DWG | DRAWING | R/W | REINFORCED WITH |
| DWL | DOWEL | REINF | REINFORCING |
| E.E. | EACH END | REM | REMAINDER |
| E.F. | EACH FACE | REQ'D | REQUIRED |
| E.J. | EXPANSION JOINT | S.J | SAWCUT JOINT |
| E.S. | EACH SIDE | S.O.G | SLAB ON GRADE |
| E.W. | EACH WAY | S.SL | STAINLESS STEEL |
| EL or ELEV | ELEVATION | SIM | SIMILAR |
| ELECT | ELECTRICAL | SPMDD | STANDARD PROCTOR MAXIMUM DRY DENSITY |
| EQ | EQUAL | SQ | SQUARE |
| EQ. SPCS. | EQUAL SPACES | SST | SIMPSON STRONG TIE |
| EXIST | EXISTING | STIFF | STIFFENER |
| EXT | EXTERIOR | STIR | STIRRUP |
| F.S. | FAR SIDE | SYM | SYMMETRICAL |
| F.T.S. | FULL TENSION SPLICE | T | TOP |
| FDN | FOUNDATION | T & B | TOP & BOTTOM |
| FL. | FLAT PLATE | T.O. | TOP OF |
| FTG | FOOTING | T/F EL. | TOP OF FOOTING ELEVATION |
| GA | GAUGE | THK | THICK |
| GALV | GALVANIZED | TLL | TOP LOWER LAYER |
| GR BM | GRADE BEAM | TUL | TOP UPPER LAYER |
| H1E | HOOK ONE END | TYP | TYPICAL |
| H2E | HOOK TWO ENDS | U/N | UNLESS NOTER OTHERWISE |
| H or HT | HIGH OR HEIGHT | U/S | UNDERSIDE |
| H.D. GALV | HOT DIPPED GALVANIZED | VERT | VERTICAL |
| H.R. | HANDRAIL | W | WIDE or WIDTH or WITH |
| HOR | HORIZONTAL | W.P. | WORKING POINT |
| I.C | IN CENTRE | WWM | WELDED WIRE MESH |

Notes

[illegible]

PROFESSIONAL ENGINEER ALBERTA
GEOFFREY A. SMITH
June 8, 2016

Client/Project

GOVERNMENT OF CANADA

EXISTING BUILDING RENOVATION

ST. PAUL, ALBERTA

Title
DESIGN NOTES

Project No.

Revision

Sheet

1 of 2

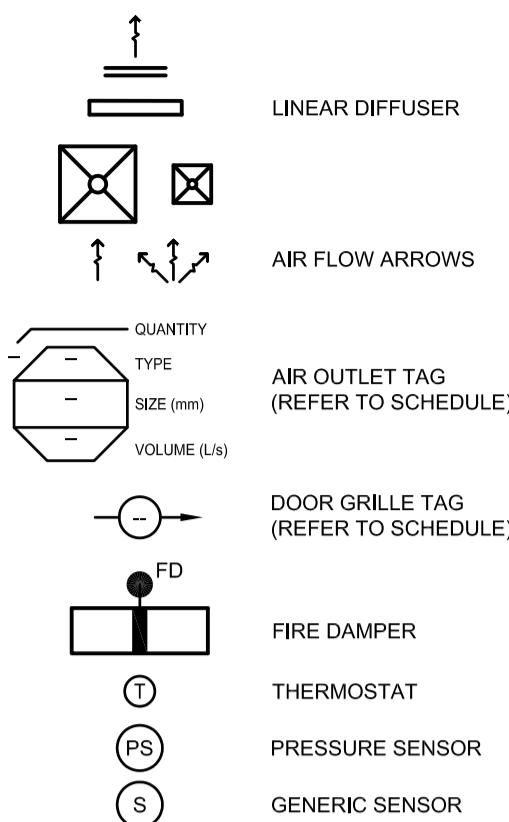
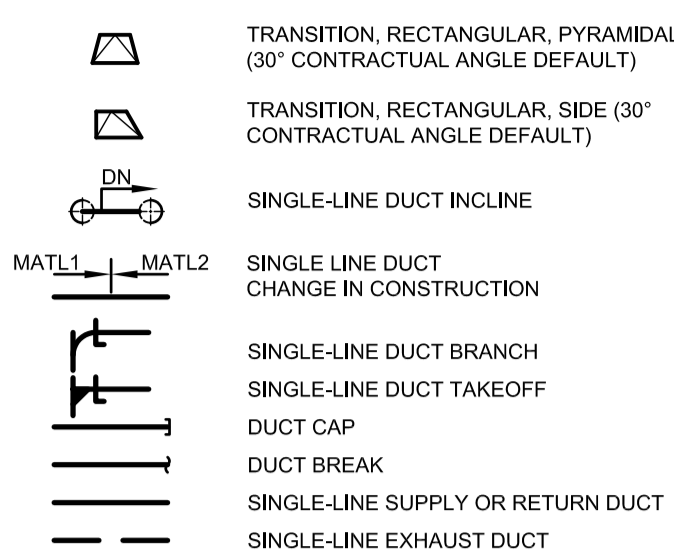
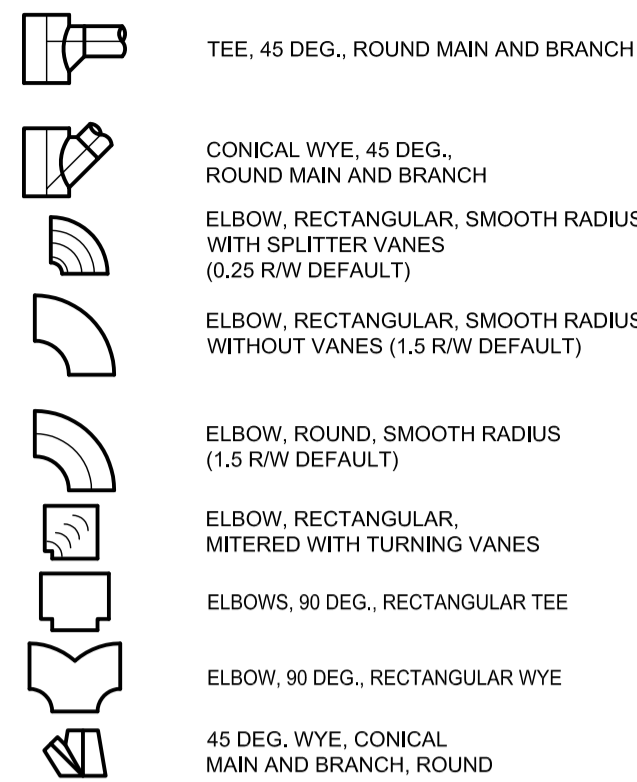
S001

Copyright Reserved

Consultants

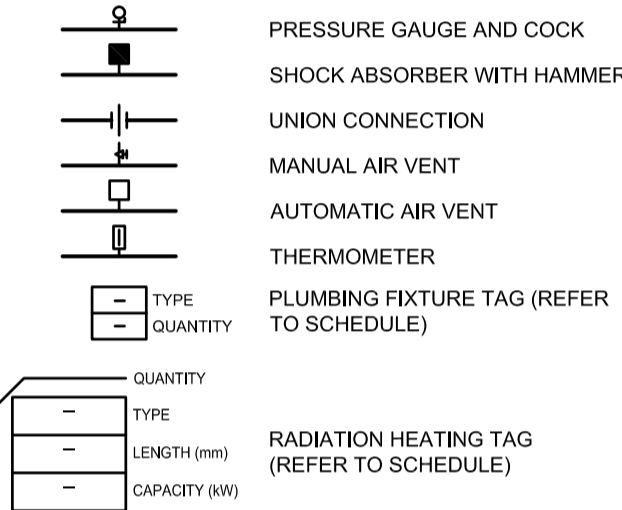
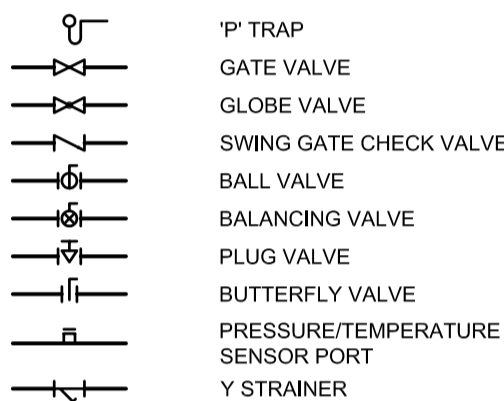
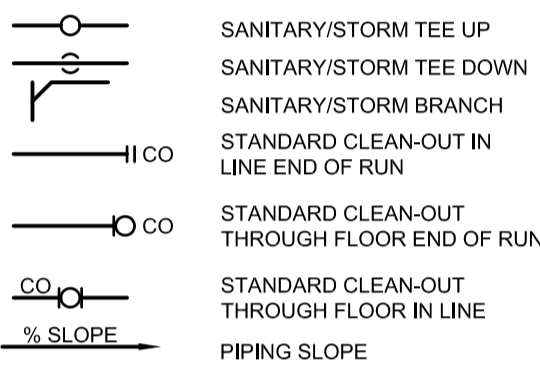
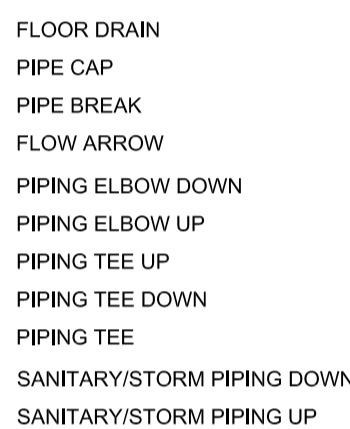
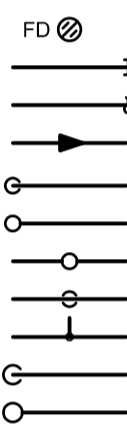
Legend

| | |
|---|--|
|  | RECTANGULAR DUCT |
|  | ROUND DUCT |
|  | ACOUSTIC DUCT INSULATION |
|  | DOUBLE LINE DUCT INCLINE |
|  | SQUARE ELBOW TURN (SUPPLY/UP/DOWN) |
|  | SQUARE ELBOW TURN (RETURN/UP/DOWN) |
|  | SQUARE ELBOW TURN (EXHAUST/UP/DOWN) |
|  | SQUARE ELBOW TURN (INTAKE/UP/DOWN) |
|  | ELBOW, ROUND, SMOOTH RA (UP/DOWN) |
|  | TEE, 45 DEG, RECTANGULAR, MAIN AND BRANCH |
|  | TEE, 45 DEG, RECTANGULAR, AND BRANCH, SQUARE TO ROUND |



| DRAWING No. | DRAWING NAME | SCALE |
|-------------|---|--------|
| M001 | MECHANICAL LEGEND, SCHEDULES & DRAWING LIST | N.T.S. |
| M101 | BASEMENT - MECHANICAL DEMOLITION & RENOVATION PLANS | 1:10 |
| M102 | MECHANICAL ROOF PLAN | 1:100 |
| M201 | MECHANICAL SECTIONS | 1:50 |
| M301 | MECHANICAL DETAILS | N.T.S. |
| M302 | MECHANICAL DETAILS | N.T.S. |

| | |
|-------------|--|
| — • — | DOMESTIC COLD WATER |
| — • • — | DOMESTIC HOT WATER |
| — • • • — | DOMESTIC HOT WATER RECIRC. |
| — T — | TEMPERED WATER |
| — V — | VENT |
| — G — | NATURAL GAS |
| — SAN — | SANITARY DRAIN (ABOVE GRADE OR FLOOR) |
| — — SAN — — | SANITARY DRAIN (BELOW GRADE OR FLOOR) |
| — HWS — | HOT WATER SUPPLY |
| — HWR — | HOT WATER RETURN |



EQUIPMENT

| | | | |
|---------------------------------|-------|--------|----------------------|
| EXHAUST FAN | EF-* | A.F.F. | ABOVE FINISHED FLOOR |
| MAKEUP AIR UNIT | MUA-* | C/W | COMPLETE WITH |
| SEDIMENT INTERCEPTOR | SI-* | EXIST | EXISTING |
| SUPPLY FAN | SF-* | ELEV. | ELEVATION |
| <u>PLUMBING FIXTURES</u> | | INV. | INVERT |
| | | SAN | SANITARY |
| ROOF DRAIN | RD-* | ST | STORM |
| FLOOR DRAIN | FD-* | | |
| EMERGENCY EYEWASH | EW-* | | |

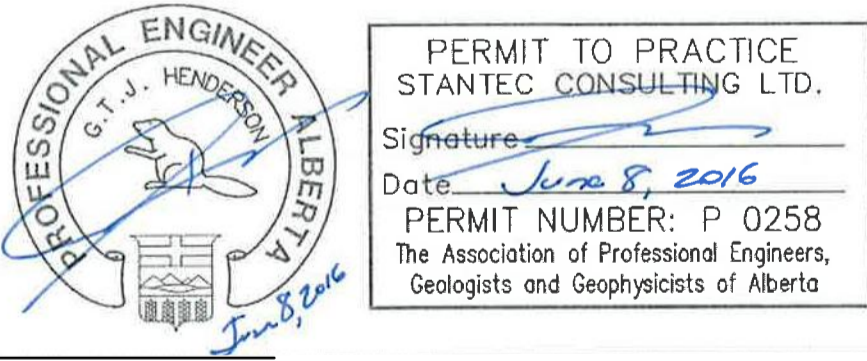
[illegible]

| GRILLE & DIFFUSER SCHEDULE | |
|----------------------------|--|
| GRILLE TYPE | DESCRIPTION |
| TRANSFER AIR | |
| E-1 | E-H, PRICE MODEL 530 FIXED LOUVER, 45° DEFLECTION, 19mm (3/4") BLADE SPACING, FRONT BLADES PARALLEL TO THE LONG DIMENSION; NARROW (TYPE N) BORDER, WHITE POWDER COAT FINISH. |

- NOTES:**
- 1) COLORS AS SELECTED BY THE ARCHITECT. CONFIRM COLOR SELECTIONS PRIOR TO ORDERING
 - 2) GRILLES, DIFFUSERS AND REGISTERS PROVIDED SHALL CONFORM TO ARCHITECTURAL AND STRUCTURAL DETAILING. CONFIRM THE FOLLOWING:
 - a) ARCHITECTURAL CEILING GRID MEASUREMENTS
 - b) STRUCTURAL ROUGH OPENING SIZES RELATIVE TO GRILLE SIZES
 - 3) ALL GRILLES, DIFFUSERS AND REGISTERS CONNECTED TO DUCTS ARE TO BE PROVIDED WITH MANUAL DAMPERS AT DUCT CONNECTIONS EXCEPT WHERE MANUAL DAMPERS ARE SPECIFIED INTEGRAL TO GRILLES.

[illegible][illegible][illegible]

Permit-Seal



Client/Project

GOVERNMENT OF CANADA

EXISTING BUILDING RENOVATION

ST. PAUL, ALBERTA

Title

MECHANICAL LEGEND & DRAWING LIST

Project No.

Scale

Revision

Drawing No.

Sheet

1 of 6

M001



- | PLAN 2 - KEY NOTES | |
|--------------------|---|
| 1 | CONNECT NEW 900X300 SUPPLY AIR BRANCH TO EXISTING SUPPLY AIR PENUM. DUCT TO DISCHARGE DOWN INTO TOP OF PERFORATED WALL, BALANCE TO 1,357 L/s. TYPICAL OF 4. |
| 2 | RELOCATED TERMINAL BOX TO BE CONNECTED TO EXISTING 1750 SUPPLY DUCT. |
| 3 | EXISTING SUPPLY AIR DIFFUSER TO BE RELOCATED AS SHOWN. |
| 4 | RELOCATE EXISTING RETURN AIR GRILLE AS SHOWN. |
| 5 | REBALANCE EXISTING EXHAUST AIR OPENING TO 1460 L/S. |
| 6 | CONTRACTOR TO CLEAN EXISTING FLOOR DRAIN AND SEDIMENT TRAP, FLUSH AND CLEAN ASSOCIATED SANITARY LINE BACK TO MAIN. |
| 7 | 3000V EXHAUST AIR FROM SLOT EXHAUST AT BENCH LEVEL. |
| 8 | NEW AIR COMPRESSOR <u>AC-01</u> TO BE LOCATED IN MILLWORK. COMPRESSED AIR LINE TO RUN ALONG BACK OF COUNTER TO CLEANSING STATION. |
| 9 | CONNECT NEW EMERGENCY MIXING VALVE SERVING EMERGENCY EYEWASH TO EXISTING DOMESTIC HOT & COLD WATER SERVING EXISTING SINK. LOCATE MIXING VALVE BELOW SINK IN SURFACE MOUNTED CABINET. |
| 10 | NEW VENTILATION CONTROL PANEL. |
| 11 | REBALANCE EXISTING MAKEUP AIR UNIT MUA-1 TO PROVIDE 5.428 L/S. |
| 12 | TRANSITION FROM 3000 GALVANIZED DUCTWORK TO 3000 PVC DUCTWORK. SEAL DUCT PENETRATION THROUGH EXTERIOR WALL. WATER TIGHT. |
| 13 | 3000 PVC DUCTWORK TO TERMINATE ABOVE GRADE WITH GOOSENECK CW BIRDSCREEN. BOTTOM OF GOOSENECK TO BE A MINIMUM OF 750mm ABOVE GRADE. |
| 14 | RELOCATE EXISTING RADIATION AND CABINET TO THIS LOCATION. RECONNECT RADIATION TO EXISTING HOT WATER RISERS. HOT WATER RETURN TO BE RUN BACK IN CABINET TO RISER. |
| 15 | EXTEND RADIATION CABINET TO NEW WALL. |
| 16 | RELOCATE HOT WATER RISERS SERVING RADIATION IN ROOM 020 TO SUIT LOCATION OF NEW WALL. SEAL ALL PIPE PENETRATIONS THRU WALL AIR TIGHT. DO NOT USE WATER RISERS IN PLASTIC WALL SEPARATING ROOMS 016 AND 020. |
| 17 | REVISE LENGTH OF RADIATION CABINET AND PIPING AS NECESSARY TO SUIT NEW EQUIPMENT. |
| 18 | EXISTING FAUCET TO BE REPLACE TO SUIT NEW EMERGENCY EYEWASH. CONTRACTOR TO CONFIRM WATER CUTTER TO IDENTIFY SPACING PRIOR TO ORDERING FAUCET. EXISTING VALUETTE TO REMAIN. |
| 19 | EXHAUST GRILLE TO BE SERVING EXHAUST HOOD. REFER TO DETAIL D ON DRAWING M302. |
| 20 | PROVIDE NEW 3000 THERMALLY INSULATED MOTORIZED DAMPER INTERLOCKED WITH EF-2 OPERATION. MOTORIZED DAMPER TO BE EQUAL TO TAMCO SERIES 9000. |

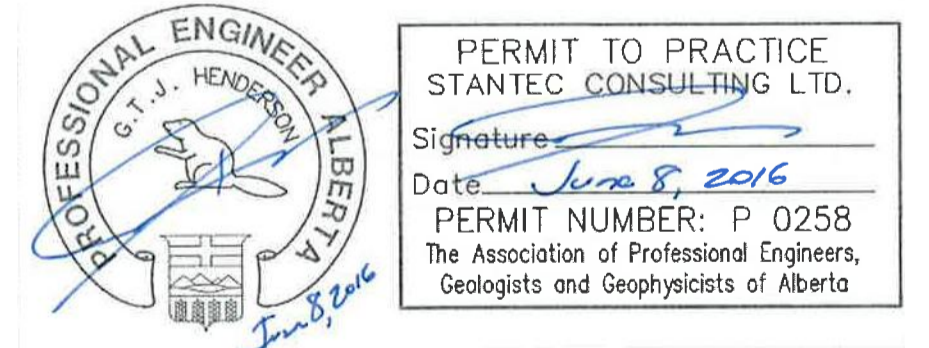
Consultants

Legend

Notes

| Revision | By | Appd | YYYY.MM.DD |
|-------------------------------------|-----|------|------------|
| | | | |
| | | | |
| | | | |
| | | | |
| ISSUED FOR TENDER | JPH | GTH | 2016.06.08 |
| ISSUED FOR PRE-TENDER CLIENT REVIEW | JPH | GTH | 2016.06.22 |
| ISSUED FOR 99% REVIEW | JPH | GTH | 2016.03.02 |
| Issued | By | Appd | YYYY-MM-DD |

Permit-Seal



Client/Project
GOVERNMENT OF CANADA

EXISTING BUILDING RENOVATION

ST. PAUL, ALBERTA

Title
MECHANICAL SECTIONS

| | |
|---------------|---------|
| Project No. | Scale |
| 144202775.200 | 1:50 |
| Revision | Drawing |

Sheet
4 of 6


M201

The Contractor shall verify and be responsible for all dimensions. DO NOT scale the drawing - any errors or omissions shall be reported to Stantec without delay.

The Copyrights to all designs and drawings are the property of Stantec. Reproduction or use for any purpose other than that authorized by Stantec is forbidden.

Legend

[illegible]

| | |
|---|--|
|  | PERMIT TO PRACTICE STANTEC CONSULTING LTD. |
| | Signature _____ |
| | Date <u>June 8, 2016</u> |
| | PERMIT NUMBER: P 0258 The Association of Professional Engineers, Geologists and Geophysicists of Alberta |

5 of 6

M301




The Contractor shall verify and be responsible for all dimensions. DO NOT scale the drawing - any errors or omissions shall be reported to Stantec without delay.

The Copyrights to all designs and drawings are the property of Stantec. Reproduction or use for any purpose other than that authorized by Stantec is forbidden.

Legend

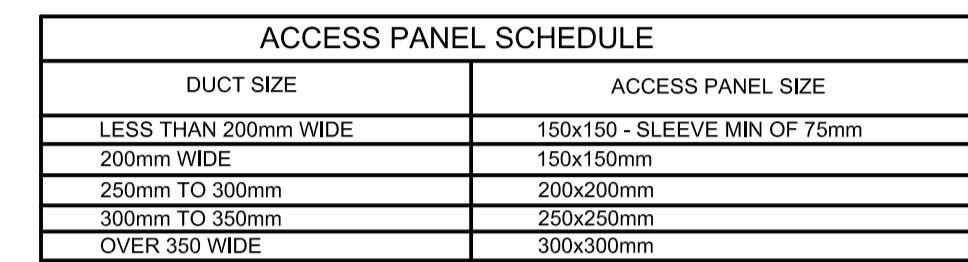
| Revision | By | Appd | YYYY.MM.DD |
|-------------------------------------|-----|------|------------|
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| ISSUED FOR TENDER | JPH | GTH | 2016.04.08 |
| ISSUED FOR PRE-TENDER CLIENT REVIEW | JPH | GTH | 2016.04.22 |
| ISSUED FOR 99% REVIEW | JPH | GTH | 2016.03.02 |
| Issued | By | Appd | YYYY-MM-DD |

| | |
|---|--|
|  | PERMIT TO PRACTICE STANTEC CONSULTING LTD. |
| | Signature _____ |
| | Date: <u>June 8, 2016</u> |
| | PERMIT NUMBER: P 0258 The Association of Professional Engineers, Geologists and Geophysicists of Alberta |

Title
MECHANICAL DETAILS

Sheet
6 of 6

M302



38mm x 38mm x 10
GAUGE OR HEAVIER
ANGLES, SNUG TO WALL
& COLLAR ALL AROUND

WALL

CLEARANCE - REFER TO
MANUFACTURER'S
RECOMMENDATIONS.

DUCT CONNECTION
(TYPE A)

DUCT CONNECTION
(TYPE B)

DUCT CONNECTION
(TYPE C)

FIRE DAMPER

COLLAR

NOTE:
PROVIDE CONTINUOUS
APPROVED FIRE STOPPING
SEALANT BETWEEN ANGLES
IRON & WALL OR FLOOR.

NOTE:
WHERE DUCT IS ATTACHED
TO THE COLLAR WITH "S" AND
CONNECTIONS THE CAUTION
THE COLLAR MAY BE THE SIZE
OF THE GAUGE OF THE DUCT

38mm x 38mm x 10 GAUGE OR HEAVIER ANGLES, SNUG TO WALL & COLLAR ALL AROUND

WALL

CLEARANCE - REFER TO MANUFACTURER'S RECOMMENDATIONS.

DUCT CONNECTION (TYPE A)

DUCT CONNECTION (TYPE B)

DUCT CONNECTION (TYPE C)

FIRE DAMPER

COLLAR

GRILLE

NOTE:

REFER TO MANUFACTURER'S INSTALLATION DETAILS FOR VARIANCES IN DAMPER DESIGN & INSTALLATION.

NOTE:

WHERE DUCT IS ATTACHED TO THE COLLAR WITH "S" AND DRIVE CONNECTIONS THE GAUGE OF THE COLLAR MAY BE THE SAME AS THE GAUGE OF THE DUCT.

FIRE DAMPER INSTALLATION DETAIL

The Contractor shall verify and be responsible for all dimensions. DO NOT scale the drawing - any errors or omissions shall be reported to Stantec without delay.

The Copyrights to all designs and drawings are the property of Stantec. Reproduction or use for any purpose other than that authorized by Stantec is forbidden.

Legend

| Revision | By | Appd | YYYY-MM-DD |
|----------|----|------|------------|
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| TENDER | DM | TJS | 2016.06.08 |
| Issued | By | Appd | YYYY-MM-DD |

E001



PERMIT NUMBER: P 0258
2016-06-08

OLS

| 03:34 PM | | | | | | | | | | |
|----------|------|---------------------|------|-----|--------|-------------|------|------|----------------------------|-----|
| CCT | LOAD | | KVA | BRK | P H | BRK SIZE | KVA | LOAD | | CCT |
| No | Type | Description | | | | | | Type | Description | No |
| 1 | | Existing | | | A | 15 | 0.66 | LTG. | Rm. 020 Lights | 2 |
| 3 | | Existing | | | B | 15 | 0.75 | MTR. | Exhaust Fan (EF-2) | 4 |
| 5 | | Existing | | | C | 35 | 1.70 | MTR. | Air Compressor (AC-1) | 6 |
| 7 | | Existing | | | A | 15 | 0.89 | LTG. | Rm. 020 Lights | 8 |
| 9 | | Existing | | | B | | | | Existing | 10 |
| 11 | | Existing | | | C | | | | Existing | 12 |
| 13 | | Existing | | | A | 15 | 0.79 | LTG. | Rm. 020 & Rm. 016 Lights | 14 |
| 15 | | Existing | | | B | | | | Existing | 16 |
| 17 | | Existing | | | C | | | | Existing | 18 |
| 19 | | Existing | | | B | | | | Existing | 20 |
| 21 | REC. | Trap vacuum | 3.00 | 30 | B | | | | Existing | 22 |
| 23 | REC. | | 3.00 | 2P | C | 15 | 1.00 | REC. | Rm. 020 Receptacle | 24 |
| 25 | REC. | Receptacle Rm. 016 | 0.20 | 15 | A | | | | Existing | 26 |
| 27 | | Existing | | | B | 15 | | REC. | RM. 016 Ventilation System | 28 |
| 29 | | Existing | | | C | 15 | 1.00 | REC. | Rm. 020 Receptacle | 30 |
| 31 | | Existing | | | A | | | | Existing | 32 |
| 33 | | Existing | | | B | | | | Existing | 34 |
| 35 | | Existing | | | C | | | | Existing | 36 |
| 37 | | Existing | | | A | | | | Existing | 38 |
| 39 | | Existing | | | B | | | | Existing | 40 |
| 41 | | Existing | | | C | | | | Existing | 42 |
| 43 | | Existing | | | A | | | | Existing | 44 |
| 45 | | Existing | | | B | | | | Existing | 46 |
| 47 | | Existing | | | C | | | | Space | 48 |
| 49 | REC. | Receptacle Rm. 016 | 0.70 | 20 | A | | | | Existing | 50 |
| 51 | | Existing | | | B | | | | Existing | 52 |
| 53 | | Existing | | | C | | | | Existing | 54 |
| 55 | REC. | Receptacle Rm. 016 | 0.70 | 20 | A | | | | Existing | 56 |
| 57 | REC. | Receptacle Rm. 020 | 1.00 | 15 | B | | | | Existing | 58 |
| 59 | OTH. | Battery Pack "BP-1" | 0.40 | 15 | C | | | | Space | 60 |

1. ALL CONDUITS TO BE ELECTRICAL METALLIC TUBING (EMT), EMT COUPLING AND CONNECTORS SHALL BE T&B STEEL, SETSCREW TYPE.
2. REAM AND REMOVE ANY SHARP PROJECTIONS ON ALL CONDUITS.
3. ALL CONDUITS SHALL BE RUN IN THE MOST DIRECT ROUTE POSSIBLE, PARALLEL OR PERPENDICULAR TO BUILDING LINES, WITH PROPER SUPPORT.
4. PULLBOXES, FITTINGS OR JUNCTION BOXES SHALL BE PROVIDED IN COMMUNICATIONS CONDUIT RUNS ON THE BASIS OF NOT MORE THAN TWO (2) RIGHT ANGLE BENDS OR THEIR EQUIVALENT. THERE SHALL NOT BE MORE THAN 30m (100ft), IN STRAIGHT RUNS BETWEEN BOXES. PULLBOXES TO BE SIZED TO MEET CODE REQUIREMENTS.
5. COMMUNICATIONS CONDUITS WITH AN INTERNAL DIAMETER OF 53mm (2in) OR LESS SHALL HAVE A BEND RADIUS AT LEAST SIX(6) TIMES THE INTERNAL CONDUIT DIAMETER. CONDUITS WITH AN INTERNAL DIAMETER OF GREATER THAN 53mm (2in) SHALL HAVE A BEND RADIUS AT LEAST TEN (10) TIMES THE INTERNAL CONDUIT DIAMETER.

| |
|---|
| <ol style="list-style-type: none"> 1. EMERGENCY BATTERY PACK SHALL BE LUMACELL RG24S72HP SERIES C/W TWO LIGHT HEADS WITH LD13. 2. ALL EMERGENCY LIGHT REMOTE HEADS SHALL BE LUMACELL MQM SERIES C/W LD13. 3. ALL WALL/CEILING MOUNTED LED EXIT LIGHT C/W DIRECTIONAL ARROWS AS SHOWN ON THE DRAWINGS. EXIT LIGHT SHALL BE THOMAS AND BETTS RA SERIES SINGLE HEAD CATALOGUE # RA-1-W-U AND DOUBLE HEAD CATALOGUE # RA-2-W-U |
| <p><u>NOTES:</u></p> <ol style="list-style-type: none"> 1. ELECTRICAL CONTRACTOR SHALL SIZE THE BATTERY PACK WITH 25% SPARE CAPACITY BASED UPON 60 MINUTE RUN TIME. 2. APPROVED EQUIPMENT PRODUCTS SHALL BE "THOMAS AND BETTS" OR APPROVED EQUAL. |

| TYPE | VOLTAGE | WATTAGE | LAMPS/ HEADS | MOUNTING | REMARKS | MANUFACTURER – CATALOGUE NUMBER |
|------|---------|---------|-----------------|----------|--|--|
| 300 | 120 | 53 | LED | RECESSED | 2X4 RECESSED LED LUMINAIRE | JUNO LIGHTING GROUP INDY SERIES S2X4BL-55-50--U-WH-3 |
| 301 | 120 | 73.2 | LED | SURFACE | SURFACE MOUNTED VANDAL RESISTANT LINEAR LED LUMINAIRE | EATON FAIL-SAFE QS-IHVSL8-4-LD4-2-STD-50-UNV-O-ED1D |
| 302 | 120 | 4.5/FT | LED | SURFACE | SURFACE UNDER COUNTER LED LUMINAIRE | VISUAL LIGHTING TECHNOLOGIES ESSENTIAL LEDS ELL-1S3645-50-AL-SLC--WE1-UL-ELL-ACC-2SL-MC |
| 303 | 120 | 73.2 | LED | SURFACE | SURFACE MOUNTED AND ANGLE DOWN LUMINAIRE | EATON FAIL-SAFE FOC-S-4-LD4 |
| 304 | 120 | 18 | LED | SURFACE | SURFACE MOUNTED LED LUMINAIRE | EATON LUMARK CROSSTOUR LED XTOR2A-XTORFLD-KNC |

| DRAWING NUMBER | TITLE |
|-------------------|---|
| E001 | ELECTRICAL SYMBOL LEGEND, NOTES, SCHEDULE AND DRAWING LIST |
| E100 | BASEMENT DEMOLITION FLOOR PLAN – LIGHTING, POWER AND SYSTEM |
| E200 | BASEMENT FLOOR PLAN – LIGHTING, POWER AND SYSTEM |
| E300 | BASEMENT FLOOR PLAN – COLOR LIGHTING MAP |
| E400 | ELECTRICAL DETAILS AND MECHANICAL EQUIPMENT SCHEDULE |

1. ALL ELECTRICAL MATERIALS AND INSTALLATIONS SHOWN AND/OR SPECIFIED SHALL BE INSTALLED AS PER THE MANUFACTURER'S RECOMMENDATIONS AND SHALL COMPLY IN STRICT ACCORDANCE WITH THE LATEST EDITION OF C.S.A. STANDARDS, THE C.E.C. AND STANDATA.
2. ALL CONDUIT WORK, WIRING AND JUNCTION BOXES AS MAY BE REQUIRED SHALL BE THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR.
3. ELECTRICAL CONTRACTOR TO PROVIDE AS-BUILT DRAWINGS AT PROJECT COMPLETION.
4. MAXIMUM VOLTAGE DROP SHALL BE 3%. ELECTRICAL CONTRACTOR SHALL SIZE WIRES TO SUIT.
5. ALL EXPOSED CONDUIT SHALL BE RUN PARALLEL TO BUILDING LINES. ALL CONDUIT RUNS ARE TO BE APPROVED PRIOR TO INSTALLATION.
6. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATIONS AND MOUNTING HEIGHTS OF ALL ELECTRICAL EQUIPMENT PRIOR TO INSTALLATION.
7. PROVIDE LAMACOID LABELS FOR ANY SPECIAL PURPOSE SWITCHES OR RECEPTACLES C/W PANEL FEED, VOLTAGE, CIRCUIT NUMBERS.
8. PROVIDE LABELS FOR ALL EQUIPMENT, SWITCHES, RECEPTACLES AND FEEDERS C/W PANEL FEED AND CIRCUIT NUMBERS.
9. THE ELECTRICAL CONTRACTOR SHALL SEAL ALL PENETRATIONS FOR RACEWAYS, CABLES AND ALL OTHER PENETRATIONS MADE BY THE ELECTRICAL CONTRACTOR THROUGH FIRE RATED ASSEMBLIES TO PREVENT THE SPREAD OF SMOKE AND FIRE. A SYSTEM LISTED IN ULC-FS, FIRESTOP SYSTEMS AND COMPONENTS SHALL BE USED TO MAINTAIN THE FIRE RATING OF THE ASSEMBLIES.
10. THE ELECTRICAL CONTRACTOR SHALL USE STI EASY PATH FOR PENETRATION MADE FOR DATA CABLING. THE CAPACITY OF EASY PATH TO MATCH WITH CAPACITY OF CABLE TRAY.
11. ELECTRICAL CONTRACTOR TO ARRANGE FOR FIRE ALARM MANUFACTURER OR LOCAL TECHNICIAN TO ATTEND PRE-TENDER WALKTHROUGH TO DETERMINE COST OF INSTALLING NEW DEVICES INTO THE EXISTING FIRE ALARM PANEL. SUBMIT PRICE FOR INCORPORATING NEW FIRE ALARM DEVICES IN TO EXISTING SYSTEM AS SEPARATE LINE ITEM IN BID

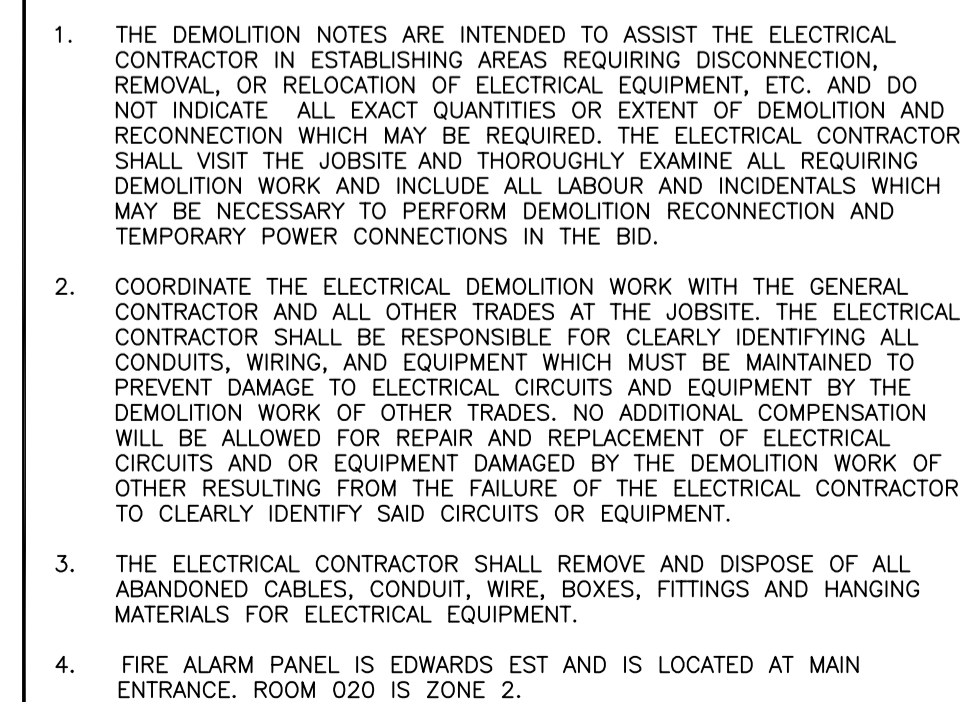
The Contractor shall verify and be responsible for all dimensions. DO NOT scale the drawing - any errors or omissions shall be reported to Stantec without delay.

The Copyrights to all designs and drawings are the property of Stantec. Reproduction or use for any purpose other than that authorized by Stantec is forbidden.

[illegible]

PERMIT NUMBER: P 0258
2016-06-08

E100



The Contractor shall verify and be responsible for all dimensions. DO NOT scale the drawing - any errors or omissions shall be reported to Stantec without delay.

The Copyrights to all designs and drawings are the property of Stantec. Reproduction or use for any purpose other than that authorized by Stantec is forbidden.

[illegible]

PERMIT NUMBER: P 0258
2016-06-08

E200



NOTE:

1. SWITCH TYPE TO BE EATON GREENGATE 0-10V SLIDE DIMMER WALL STATION, ONE HOT WIRE TO SWITCH, 3 WIRES TO LIGHT FOR 0-10V DIMMING. SEE WIRING DIAGRAM ON EATON WEBSITE.
2. COLORED LAMACOD LETTERING COLOR AS SUGGESTED BY ENGRAVER, COLORS SHOWN RELATE TO DRAWING E300. FRAME AND MOUNT E300 ABOVE BANK OF SWITCHES.

| | |
|-----------|---|
| 3 E200 | ALL SLIDE DIMMING SWITCHES LAYOUT N.T.S. |
|-----------|---|

| LIGHTING KEYNOTES: | |
|--------------------|--|
| 1 | LOCATION OF DIMMER LIGHTING SWITCHES. SEE DETAIL 3/E200. |
| 2 | INSTALL RECEPTACLE AT TOP OF WALL PROTECTED BY BAFFLE. |
| 3 | NEW EXIT SIGN SHALL BE TIED INTO EXISTING EXIT SIGN CIRCUIT. FED FROM PANEL BEA. |


| POWER AND SYSTEM KEYNOTES: | |
|----------------------------|--|
| 1 | FUTURE CAMERA HOME RUN TO UNDER CONTROL DESK. CAMERA JUNCTION BOX TO BE LOCATED ABOVE END POINT OF BALLISTIC CEILING. |
| 2 | CEILING MOUNTED JUNCTION BOX CONDUIT TO UNDER CONTROL DESK. CONTROL DESK IN ROOM 016. |
| 3 | SPEAKER JUNCTION BOX. HOME RUN TO UNDER CONTROL DESK. |
| 4 | TARGET RAIL POWER JUNCTION BOX AND TARGET RAIL CONDUIT. JUNCTION BOX WITH CONDUIT BACK TO UNDER CONTROL DESK FOR FUTURE ROOM 020 CONTROL SYSTEM. FUTURE TARGET SHALL BE CONNECTED TO TARGET 20A-1F POWER CIRCUIT. BA-24 FOR NORTH TWO LANES AND BA-30 FOR SOUTH TWO LANES. |
| 5 | JUNCTION BOX AND 27mm CONDUIT BACK TO CONTROL DESK FOR FUTURE RUNNING MAN TARGET SYSTEM. RECEPTACLE AND JUNCTION TO BE PROTECTED BY BAFFLE. |
| 6 | EXISTING JUNCTION BOXES IN WALL FOR BEAM DETECTORS. TIE IN CONDUITS TO ROOM 020 CONTROL JUNCTION BOX. |
| 7 | REPLACE EXISTING BELLS WITH BELL STROBES. |
| 8 | SEE KEYNOTE 3 ON E100. |

The Contractor shall verify and be responsible for all dimensions. DO NOT scale the drawing - any errors or omissions shall be reported to Stantec without delay.

The Copyrights to all designs and drawings are the property of Stantec. Reproduction or use for any purpose other than that authorized by Stantec is forbidden.

[illegible]

| | | | |
|----------|----|------|------------|
| Revision | By | Appd | YYYY.MM.DD |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| TENDER | DM | TJS | 2016.06.08 |
| Issued | By | Appd | YYYY.MM.DD |



PERMIT NUMBER: P 0258
2016-06-08

Title

BASEMENT FLOOR PLAN -
COLOR LIGHTING MAP

Sheet
4 of 5



The Contractor shall verify and be responsible for all dimensions. DO NOT scale the drawing - any errors or omissions shall be reported to Stantec without delay.

The Copyrights to all designs and drawings are the property of Stantec. Reproduction or use for any purpose other than that authorized by Stantec is forbidden.

Legend

Notes



1 HEAT DETECTOR INSTALLATION DETAIL



1 53mm GROMMET IN DESK TOP. 53mm FROM BACK EDGE OF DESK TO CENTER OF GROMMET HOLE.

NOTES:

1. ALL JUNCTION BOX ARE 152mmX152mmX152mm WITH 53mm CENTER HOLE PUNCHED IN CUSTOM OVERSIZED COVERPLATE AND 53mm GROMMET INSTALLED IN THIS HOLE.

2 ROOM 016 - CONTROL DESK MILLWORK DETAIL
E400 N.T.S.

| MECHANICAL EQUIPMENT SCHEDULE | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|----------------|----------|-------|----|-----|-----|-------|-------|---------------|-----------------------|-------------|------------------|-----------------|------------------|---------------|----------|-----------------|------------------|---------|--------------|------------------|------------------------|--------------------------------|-----------------------|---------|---|
| UNIT No. | UNIT | LOCATION | LOAD | | | | VOLTS | PHASE | PACKAGED UNIT | STARTER & ACCESSORIES | | | | | CONTROL | | | | CIRCUIT | BREAKER | LOCAL DISCONNECT | FEEDER (SEE NOTE 8) | FIRE ALARM PANEL (Y/N) | EMERGENCY POWER (Y/N) | REMARKS | |
| | | | HP | kW | FLA | MOP | | | | TYPE [B] | CONTROL [C] | PILOT LIGHTS [E] | SUPPLIED BY [A] | INSTALLED BY [A] | WIRING BY [A] | TYPE [D] | SUPPLIED BY [A] | INSTALLED BY [A] | | | | | | | | WIRING BY [A] |
| | | | | | | | | | | | | | | | | | | | | | | | | | | |
| EF-1 | EXHAUST FAN | ROOF | 20.00 | | | | 208 | 3 | | | | | | | | DDC | M | M | M | EXISTING CDP | 100A-3P | | 41mmC - 3#3 AWG Cu + #8 GRD. | N | N | NEW BREAKER AND WIRING FROM EXISTING SOURCE |
| EF-2 | EXHAUST FAN | ROOM 023 | 0.33 | | | | 120 | 1 | | | | | | | | DDC | M | M | M | PANEL BA-4 | 15A-1P | | 21mmC - 2#12 AWG Cu + #12 GRD. | N | N | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | |
| AC-1 | AIR COMPRESSOR | ROOM 016 | 0.80 | | | | 120 | 1 | | | | | | | | S | E | E | E | PANEL BA-6 | 35A-1P | | 21mmC - 2#10 AWG Cu + #12 GRD. | N | N | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <div><div>[A] SUPPLIED BY: E = ELECTRICAL M = MECHANICAL</div><div>[B] STARTER TYPE: D = DIRECT CONNECTION CM = COMBINATION MA = MANUAL C/W PILOT LIGHT MG = MAGNETIC STARTER MG2 = MAGNETIC STARTER (2-SPEED) REC = RECEPTACLE SS = SOFT START VFD = VARIABLE FREQUENCY DRIVE</div><div>[C] CONTROL TYPE: HOA = HAND/OFF/AUTO OA = OFF/AUTO OO = ON/OFF SS = START/STOP</div><div>[D] CONTROL DEVICE: C = TIME CLOCK DDC = DIRECT DIGITAL CONTROLS ET = ELECTRONIC THERMOSTAT F = FLOAT SWITCH FA = FIRE ALARM GS = GAS SENSOR H = HUMIDISTAT I = INTERLOCK O = OTHER (IDENTIFY) P = PRESSURE SWITCH S = MANUAL SWITCH T = THERMOSTAT</div><div>[E] PILOT LIGHTS: R = RED (OFF) G = GREEN (ON)</div><div>NOTES: 1. FIRE ALARM SHUTDOWN REQUIRED. 2. EMERGENCY POWER. 3. STARTER IN DIV. 21, 22 OR 23 PACKAGED UNIT. 4. VARIABLE SPEED CONTROLLERS BY DIV. 22 & 23. 5. TWO SPEED STARTER. 6. REDUCED VOLTAGE STARTER. 7. FIRE ALARM STARTUP REQUIRED. 8. CABLE SIZE SHOWN IS MINIMUM SIZE. FOLLOW LATEST C.E.C. AND/OR LEED AS REQUIRED</div></div> | | | | | | | | | | | | | | | | | | | | | | | | | | |

[illegible]

Permit-Seal



Client/Project
GOVERNMENT OF CANADA

EXISTING BUILDING RENOVATION

ST. PAUL, ALBERTA

Title
ELECTRICAL DETAILS AND
MECHANICAL EQUIPMENT SCHEDULE

| | |
|---------------|----------|
| Project No. | Scale |
| 144202775.200 | AS SHOWN |

Revision _____ Drawing No. _____

00

Sheet
5 of 5

E400