

**REPUBLIC
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FEDERAL BUILDING

TBU8 RESOURCE CENTER INTERIOR FIT-UP

—
CLIENT PROJECT NO. SOA 7222198
2018/05/22
ISSUED FOR CONSTRUCTION
—

LIST OF DRAWINGS

| ARCHITECTURAL | |
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| A0.0 | COVER SHEET |
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| A0.2 | SITE PLAN |
| A1.1 | MAIN AND SECOND FLOOR DEMOLITION PLANS |
| A1.2 | MAIN AND SECOND FLOOR REFLECTED CEILING DEMOLITION PLANS |
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| ELECTRICAL | |
| E0.0 | DRAWING LIST AND SYMBOL LEGENDS |
| E0.1 | SYMBOL LEGENDS AND STANDARD DETAILS |
| E1.0 | DEMOLITION POWER AND SYSTEMS PLAN - MAIN AND SECOND FLOOR |
| E1.1 | DEMOLITION LIGHTING PLAN - MAIN AND SECOND FLOOR |
| E2.0 | POWER AND SYSTEMS PLAN - MAIN AND SECOND FLOOR |
| E3.0 | LIGHTING PLAN - MAIN AND SECOND FLOOR |

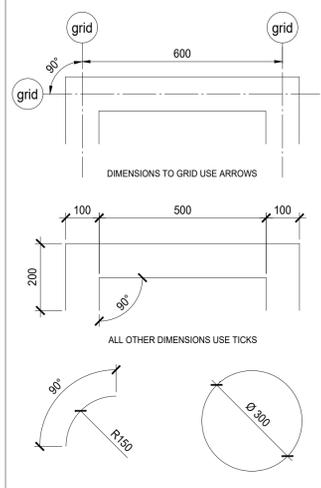
BUILDING CODE INFORMATION

| NATIONAL BUILDING CODE OF CANADA 2015 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------------------|---|---------------------------------------|-------------------|------------------------|-------------------|------------------------|------------------|----------------------------------|--|--------------------|---------------|---------------------------------|------|--------|----------------|---------------------------------------|----|----------|----------------|---------------------------------|-----|------|--------------|----------------------------------|-----|--------|--------------|---------------------------------|----|--------|-------------|---------------------------------|---|--------|------------------------|--------------------------|----|----------|---|-----|-----------|--|--|--|--|--|--|--|--|--|-----------------------------|--|--|--|--|--|--|--|--|--|--|--|--|
| ITEM | DESCRIPTION | REFERENCE | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | PROJECT DESCRIPTION PROJECT TYPOLOGY: ALTERATION | 1.3.3/1.4.1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | MAJOR OCCUPANCIES | 3.1.2.1/3.2.2.8/A3.1.2.1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | BUILDING AREA EXISTING: 400 M2 NEW: 0 M2 TOTAL: 400 M2 | 1.4.1/3.1.10 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | GROSS FLOOR AREA EXISTING: 768 M2 NEW: 0 M2 TOTAL: 768 M2 | 1.4.1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | NUMBER OF STOREYS ABOVE GRADE: 2 STOREYS BELOW GRADE: 1 STOREY | 1.4.1/3.2.1.1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 | NUMBER OF STREETS NUMBER OF STREETS FACING FOR FIREFIGHTER ACCESS: 1 STREET FIREFIGHTER ACCESS PROVIDED INTO THE BUILDING: YES | 3.2.2.10/3.2.5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7 | BUILDING CLASSIFICATION 3.2.2.25 DESCRIPTION: GROUP A, DIVISION 2, UP TO 2 STOREYS | 3.2.2.25 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 8 | LIFE SAFETY SYSTEMS STANDPIPE SYSTEM: NOT REQUIRED FIRE ALARM SYSTEM: REQUIRED BUILDING EXIT SIGNAGE: REQUIRED | 3.2.4/3.2.5/3.4.5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 9 | VERTICAL TRANSPORTATION VERTICAL SERVICE SPACE FIRE SEPARATION: 45 MIN MACHINE ROOM FIRE SEPARATION: 45 MIN | 3.5.3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10 | FIRESTOPS IN CONCEALED SPACES CRAWL SPACE: COMPARTMENT AREA: 600 M2, MAX. DIMENSION: 30 M ATTIC SPACE: COMPARTMENT AREA: 300 M2, MAX. DIMENSION: 20 M | 3.1.11.5/3.1.11.6 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 11 | EXIT DIMENSIONS TRAVEL DISTANCE: MAXIMUM TRAVEL DISTANCE: 30 M, DEAD-END CORRIDOR: N/A EXIT CLEAR WIDTH: DOORWAY: 800 mm, STAIR TREAD: 900 mm, LANDING: 900 mm, CORRIDOR: 1,100 mm MAXIMUM VERTICAL RISE: LANDING TO LANDING: 3.7 M | 3.4.2.2/3.4.2.5/3.4.3.2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 12 | EXIT CAPACITY | 3.4.3.2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | <table border="1"> <thead> <tr> <th>FLOOR</th> <th>NUMBER OF DOORS</th> <th>DOOR CLEAR WIDTH</th> <th>WIDTH PER PERSON</th> <th>CAPACITY OF DOOR(S)</th> <th>NUMBER OF STAIRS</th> <th>STAIR CLEAR WIDTH</th> <th>WIDTH PER PERSON</th> <th>CAPACITY OF STAIRS</th> <th>EXIT CAPACITY</th> </tr> </thead> <tbody> <tr> <td>BASEMENT</td> <td>1</td> <td>867 mm</td> <td>6.1</td> <td>142</td> <td>1</td> <td>1,285 mm</td> <td>8 mm</td> <td>160</td> <td>142</td> </tr> <tr> <td>MAIN</td> <td>4</td> <td>867 mm</td> <td>6.1</td> <td>568</td> <td>1</td> <td>-</td> <td>-</td> <td>-</td> <td>568</td> </tr> <tr> <td>SECOND</td> <td>2</td> <td>867 mm</td> <td>6.1</td> <td>284</td> <td>2</td> <td>1,196 mm</td> <td>8</td> <td>259</td> <td>284</td> </tr> <tr> <td colspan="9"></td> <td>ADEQUATE EXIT CAPACITY: YES</td> </tr> <tr> <td colspan="9"></td> <td>EXIT CAPACITY DISTRIBUTED AS REQUIRED: YES</td> </tr> </tbody> </table> | FLOOR | NUMBER OF DOORS | DOOR CLEAR WIDTH | WIDTH PER PERSON | CAPACITY OF DOOR(S) | NUMBER OF STAIRS | STAIR CLEAR WIDTH | WIDTH PER PERSON | CAPACITY OF STAIRS | EXIT CAPACITY | BASEMENT | 1 | 867 mm | 6.1 | 142 | 1 | 1,285 mm | 8 mm | 160 | 142 | MAIN | 4 | 867 mm | 6.1 | 568 | 1 | - | - | - | 568 | SECOND | 2 | 867 mm | 6.1 | 284 | 2 | 1,196 mm | 8 | 259 | 284 | | | | | | | | | | ADEQUATE EXIT CAPACITY: YES | | | | | | | | | | EXIT CAPACITY DISTRIBUTED AS REQUIRED: YES | | |
| FLOOR | NUMBER OF DOORS | DOOR CLEAR WIDTH | WIDTH PER PERSON | CAPACITY OF DOOR(S) | NUMBER OF STAIRS | STAIR CLEAR WIDTH | WIDTH PER PERSON | CAPACITY OF STAIRS | EXIT CAPACITY | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| BASEMENT | 1 | 867 mm | 6.1 | 142 | 1 | 1,285 mm | 8 mm | 160 | 142 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MAIN | 4 | 867 mm | 6.1 | 568 | 1 | - | - | - | 568 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SECOND | 2 | 867 mm | 6.1 | 284 | 2 | 1,196 mm | 8 | 259 | 284 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | ADEQUATE EXIT CAPACITY: YES | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | EXIT CAPACITY DISTRIBUTED AS REQUIRED: YES | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 13 | OCCUPANT LOAD BASED ON: AREA / PERSON | 3.1.17 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | <table border="1"> <thead> <tr> <th>FLOOR</th> <th>OCCUPANCY TYPE</th> <th>OCCUPANCY LOAD</th> <th>NUMBER OF PERSONS</th> </tr> </thead> <tbody> <tr> <td>BASEMENT</td> <td>MECHANICAL ROOM</td> <td>50.00 M2 / (46.00 M2 PER PERSON)</td> <td>1</td> </tr> <tr> <td>MAIN</td> <td>OFFICE</td> <td>32.35 M2 / (9.30 M2 PER PERSON)</td> <td>3</td> </tr> <tr> <td>MAIN</td> <td>COMPUTER SPACE</td> <td>1 PERSON PER WORKSTATION + INSTRUCTOR</td> <td>33</td> </tr> <tr> <td>MAIN</td> <td>READING LOUNGE</td> <td>82.84 M2 / (4.69 M2 PER PERSON)</td> <td>18</td> </tr> <tr> <td>MAIN</td> <td>BOOK STORAGE</td> <td>46.64 M2 / (46.00 M2 PER PERSON)</td> <td>1</td> </tr> <tr> <td>SECOND</td> <td>MEETING ROOM</td> <td>30.42 M2 / (1.85 M2 PER PERSON)</td> <td>16</td> </tr> <tr> <td>SECOND</td> <td>QUIET ROOMS</td> <td>40.30 M2 / (4.60 M2 PER PERSON)</td> <td>9</td> </tr> <tr> <td>SECOND</td> <td>INDIVIDUAL STUDY SPACE</td> <td>1 PERSON PER WORKSTATION</td> <td>17</td> </tr> <tr> <td colspan="3"></td> <td>TOTAL: 96</td> </tr> </tbody> </table> | FLOOR | OCCUPANCY TYPE | OCCUPANCY LOAD | NUMBER OF PERSONS | BASEMENT | MECHANICAL ROOM | 50.00 M2 / (46.00 M2 PER PERSON) | 1 | MAIN | OFFICE | 32.35 M2 / (9.30 M2 PER PERSON) | 3 | MAIN | COMPUTER SPACE | 1 PERSON PER WORKSTATION + INSTRUCTOR | 33 | MAIN | READING LOUNGE | 82.84 M2 / (4.69 M2 PER PERSON) | 18 | MAIN | BOOK STORAGE | 46.64 M2 / (46.00 M2 PER PERSON) | 1 | SECOND | MEETING ROOM | 30.42 M2 / (1.85 M2 PER PERSON) | 16 | SECOND | QUIET ROOMS | 40.30 M2 / (4.60 M2 PER PERSON) | 9 | SECOND | INDIVIDUAL STUDY SPACE | 1 PERSON PER WORKSTATION | 17 | | | | TOTAL: 96 | | | | | | | | | | | | | | | | | | | | | | |
| FLOOR | OCCUPANCY TYPE | OCCUPANCY LOAD | NUMBER OF PERSONS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| BASEMENT | MECHANICAL ROOM | 50.00 M2 / (46.00 M2 PER PERSON) | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MAIN | OFFICE | 32.35 M2 / (9.30 M2 PER PERSON) | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MAIN | COMPUTER SPACE | 1 PERSON PER WORKSTATION + INSTRUCTOR | 33 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MAIN | READING LOUNGE | 82.84 M2 / (4.69 M2 PER PERSON) | 18 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MAIN | BOOK STORAGE | 46.64 M2 / (46.00 M2 PER PERSON) | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SECOND | MEETING ROOM | 30.42 M2 / (1.85 M2 PER PERSON) | 16 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SECOND | QUIET ROOMS | 40.30 M2 / (4.60 M2 PER PERSON) | 9 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SECOND | INDIVIDUAL STUDY SPACE | 1 PERSON PER WORKSTATION | 17 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | TOTAL: 96 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 14 | SAFETY IN FLOOR AREAS SEPARATE SUITES: NO, FIRE SEPARATION REQUIRED: N/A PUBLIC CORRIDORS: NO, FIRE SEPARATION REQUIRED: N/A SUITEROOM PERMITTED TO BE SERVED BY SINGLE MEANS OF EGRESS: | 3.3.1/3.3.2.6/3.4.2.4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 15 | ADDITIONAL REQUIREMENTS FOR SPECIFIC ROOMS ROOM DESCRIPTION: JANITOR ROOM, F.R.R. REQUIRED (HRS): 45 MIN | 3.3.1.21 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 16 | HEATH | 3.7 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | <table border="1"> <thead> <tr> <th>OCCUPANCY</th> <th>NUMBER OF PERSONS</th> <th colspan="2">WATER CLOSETS REQUIRED</th> <th colspan="3">WATER CLOSETS PROVIDED</th> </tr> <tr> <th>ASSEMBLY</th> <th>96</th> <th>MENS</th> <th>WOMENS</th> <th>MENS</th> <th>WOMENS</th> <th>UNISEX</th> </tr> </thead> <tbody> <tr> <td></td> <td></td> <td>1</td> <td>2</td> <td>3</td> <td>2</td> <td>-</td> </tr> </tbody> </table> | OCCUPANCY | NUMBER OF PERSONS | WATER CLOSETS REQUIRED | | WATER CLOSETS PROVIDED | | | ASSEMBLY | 96 | MENS | WOMENS | MENS | WOMENS | UNISEX | | | 1 | 2 | 3 | 2 | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| OCCUPANCY | NUMBER OF PERSONS | WATER CLOSETS REQUIRED | | WATER CLOSETS PROVIDED | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ASSEMBLY | 96 | MENS | WOMENS | MENS | WOMENS | UNISEX | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | 1 | 2 | 3 | 2 | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 17 | BARRIER FREE DESIGN BARRIER FREE ENTRANCES PROVIDED: 1 (≥ 50% PEDESTRIAN ENTRANCES REQUIRED) POWER ASSIST DOOR OPERATORS PROVIDED: YES ELEVATOR REQUIRED/PROVIDED: NO, BARRIER FREE LIFT PROVIDED: YES LEVELS REQUIRING BARRIER FREE ACCESS: MAIN AND SECOND FLOOR | 3.8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

GENERAL NOTES

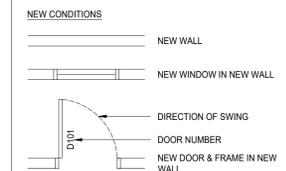
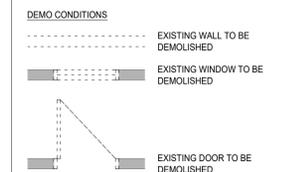
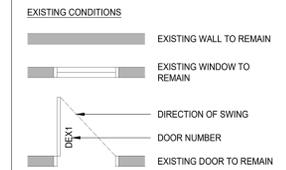
- THE DRAWINGS SHALL NOT BE SCALED FOR INFORMATION.
- THE CONTRACTOR SHALL VISIT THE SITE AND SATISFY HIMSELF THAT ALL DIMENSIONS, DATUMS AND DETAILED INFORMATION SHOWN ARE CORRECT.
- THE CONTRACTOR IS TO REPORT ANY DISCREPANCIES OR OMISSIONS PRIOR TO COMMENCEMENT OF WORK.
- THE CONTRACTOR IS TO REVIEW AND COORDINATE ALL ARCHITECTURAL, STRUCTURAL, MECHANICAL AND ELECTRICAL DRAWINGS FOR OPENINGS THRU FLOORS, WALLS AND CEILINGS INCLUDING BUT NOT LIMITED TO DUCT, PIPING AND ELECTRICAL RISERS.
- PRODUCTS AND MATERIALS ARE TO BE USED AND INSTALLED IN STRICT ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS. DIMENSIONAL PROPERTIES OF THE MATERIALS ARE NOTED IN MILLIMETERS UNLESS INDICATED OTHERWISE.
- THE CONTRACTOR SHALL BE RESPONSIBLE TO PATCH AND MAKE GOOD ALL EXISTING SURFACES ADJACENT NEW CONSTRUCTION AND ALL EXISTING FINISHES AFFECTED BY THE CONSTRUCTION.
- DIMENSIONS ARE TAKEN TO FACE OF STUD OR EXTERIOR SHEATHING UNLESS NOTED/SHOWN OTHERWISE.
- PROMPTLY REPORT ALL ACCIDENTS AND POTENTIAL LIABILITY CLAIMS TO THE CONTRACT ADMINISTRATOR.

DIMENSION LEGEND



GENERAL NOTES

| LINETYPES | |
|-----------|--------------------------------|
| ----- | SMOKE SEPARATION |
| ----- | 45 MIN FIRE SEPARATION |
| ----- | 1 HOUR FIRE SEPARATION |
| ----- | 2 HOUR FIRE SEPARATION |
| ----- | 3 HOUR FIRE SEPARATION |
| ----- | 150mmØ PERFORATED DRAIN TUBING |
| ----- | 150mmØ SOLID DRAIN TUBING |
| ----- | POLY VAPOUR BARRIER |
| ----- | BUILDING WRAP |
| ----- | AIR/WATER BARRIER |
| ----- | AIR/WATER/VAPOUR BARRIER |
| ----- | OBJECT OVERHEAD |
| ----- | ROOFLINE ABOVE |
| ----- | CENTER LINE |
| ----- | DEMOLINE |
| ----- | GRIDLINE |
| ----- | HIDDEN LINE |



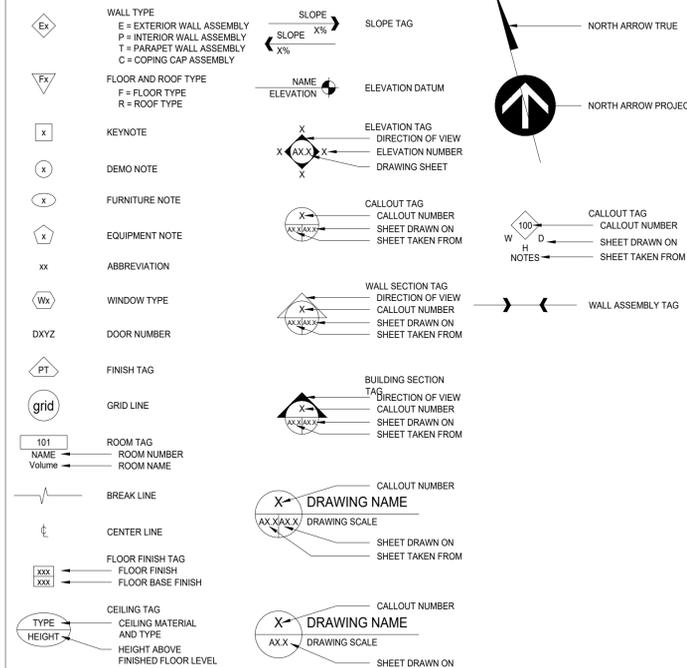
ABBREVIATION LEGEND

| | |
|------|--|
| ACT | ACOUSTIC CEILING TILE |
| ADJ | ADJUSTABLE |
| AWT | ACOUSTIC WALL TREATMENT |
| ADD | AUTO DOOR OPERATOR |
| SWP | ACOUSTIC WALL PANEL |
| C | COVED BASE |
| CA | CARD ACCESS |
| CCTV | CLOSED CIRCUIT TV CAMERAS |
| CG | CORNER GUARD - ALL ALL OUTSIDE GB CORNERS |
| CPT | CARPET TILE |
| CPU | COMPUTER |
| CT | CERAMIC TILE |
| DF | DRINKING FOUNTAIN |
| DP | DATA PROJECTOR |
| ES | ELECTRIC STRIKE DOOR ACCESS |
| EX | EXISTING |
| FB | ELECTRICAL FLOOR BOX |
| FD | FLOOR DRAIN - SLOPE FLOOR 1% TO DRAIN UNLESS OTHERWISE INDICATED |
| FE-R | SEMI-RECESSED FIRE EXTINGUISHER / CABINET |
| GBAR | GRAB BAR |
| GL | GLAZING |
| GLT | GLAZING TREATMENT (VISION FILM) |
| GB | GYPSUM BOARD |
| MW | MICROWAVE |
| NIC | NOT IN CONTRACT |
| PB | HAND OPERATED PUSH BUTTON FOR AUTO DOOR OPERATOR |
| PH | PHONE |
| PT | PORCELAIN TILE |
| PTD | PAPER TOWEL DISPENSER |
| RB | RUBBER BASE |
| RH | ROBE HOOKS - PROVIDE BLOCKING TO SUIT |
| RSF | RUBBER SAFETY FLOOR |
| RTW | RETRACTABLE WALL |
| RVT | RESILIENT VINYL TILE |
| SB | SMART BOARD |
| SD | SOAP DISPENSER |
| SV | SHEET VINYL |
| SDVT | STATIC DISSIPATIVE VINYL TILE |
| TB | TACKABLE SURFACE |
| TBWB | TACKABLE / DRY ERASE (WHITEBOARD) COMBO |
| TC | TELECONFERENCE |
| TPD | TOILET PAPER DISPENSER |
| TS | TRACTION STRIP |
| TW | TACTILE WARNING |
| TV-1 | TELEVISION SCREEN (WALL MOUNTED FLAT SCREEN) |
| TV-2 | TELEVISION SCREEN |
| UC | UNDER COUNTER |
| VC | VIDEO CONFERENCE |
| VCT | VINYL COMPOSITION TILE |
| WB | DRY ERASE (WHITEBOARD) |
| WIN | WITHIN |

MATERIAL PATTERNS

| | |
|-----------------|-----------------------|
| BATT INSULATION | GYPSUM BOARD |
| BRICK | RIGID INSULATION |
| CONCRETE | SAND |
| CONCRETE BLOCK | SHINGLES |
| EARTH | SPRAY FOAM INSULATION |
| FINISHED WOOD | STEEL |
| GRAVEL | WOOD FRAMING |

SYMBOL LEGEND





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- ISSUES / REVISIONS
- 1 17/10/05 ISSUED FOR SCHEMATIC DESIGN
 - 2 17/12/12 ISSUED FOR 86% CONSTRUCTION DOCUMENTS
 - 3 18/02/01 ISSUED FOR 99% CONSTRUCTION DOCUMENTS
 - 4 18/05/22 ISSUED FOR CONSTRUCTION
 - 5
 - 6
 - 7
 - 8

CLIENT
FEDERAL BUILDING

PROJECT
**TBU 8 RESOURCE CENTRE
INTERIOR FIT-UP**

CONTENTS
SITE PLAN

PROJECT NUMBER
SOA 7222198
DATE
2018/05/22

SHEET NUMBER
A0.2



1 SITE PLAN
A0.2 SCALE: 1:1000

2 SITE PLAN
A0.2 SCALE: 1:500



GENERAL NOTES

| LINETYPES | |
|---------------|--------------------------------|
| --- | SMOKE SEPARATION |
| --- | 45 MIN FIRE SEPARATION |
| --- | 1 HOUR FIRE SEPARATION |
| --- | 2 HOUR FIRE SEPARATION |
| --- | 3 HOUR FIRE SEPARATION |
| --- | 150mmØ PERFORATED DRAIN TUBING |
| --- | 150mmØ SOLID DRAIN TUBING |
| --- | POLY VAPOUR BARRIER |
| --- | BUILDING WRAP |
| --- | AIR/WATER BARRIER |
| --- | AIR/WATER/VAPOUR BARRIER |
| --- | OBJECT OVERHEAD |
| --- | ROOFLINE ABOVE |
| --- | CENTER LINE |
| --- | DEMOLINE |
| --- | GRIDLINE |
| --- | HIDDEN LINE |
| PROPERTY LINE | |

| EXISTING CONDITIONS | |
|---------------------|----------------------------------|
| --- | EXISTING WALL TO REMAIN |
| --- | EXISTING WINDOW TO REMAIN |
| --- | DIRECTION OF SWING |
| --- | DOOR NUMBER |
| --- | EXISTING DOOR TO REMAIN |
| DEMO CONDITIONS | |
| --- | EXISTING WALL TO BE DEMOLISHED |
| --- | EXISTING WINDOW TO BE DEMOLISHED |
| --- | EXISTING DOOR TO BE DEMOLISHED |
| NEW CONDITIONS | |
| --- | NEW WALL |
| --- | NEW WINDOW IN NEW WALL |
| --- | DIRECTION OF SWING |
| --- | DOOR NUMBER |
| --- | NEW DOOR & FRAME IN NEW WALL |

DEMOLITION NOTES

- DEMOLISH EXISTING SHELVES
- DEMOLISH EXISTING MILLWORK
- DEMOLISH EXISTING STAIR HANDRAIL
- DEMOLISH EXISTING FLOORING & BASE, MAKE GOOD SURFACES FOR NEW FLOORING
- DEMOLISH EXISTING WINDOW BLINDS ON ALL WINDOWS
- REMOVE VINYL WALL COVERINGS FROM ALL WALLS. PATCH & REPAIR SUITABLE FOR NEW PAINT FINISH
- EXTENT OF FLOOR DEMOLITION
- REMOVE CENTRAL VACUUM PLATE AND CAP PIPING BELOW THE FLOOR SURFACE

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| 5 | |
| 6 | |
| 7 | |
| 8 | |

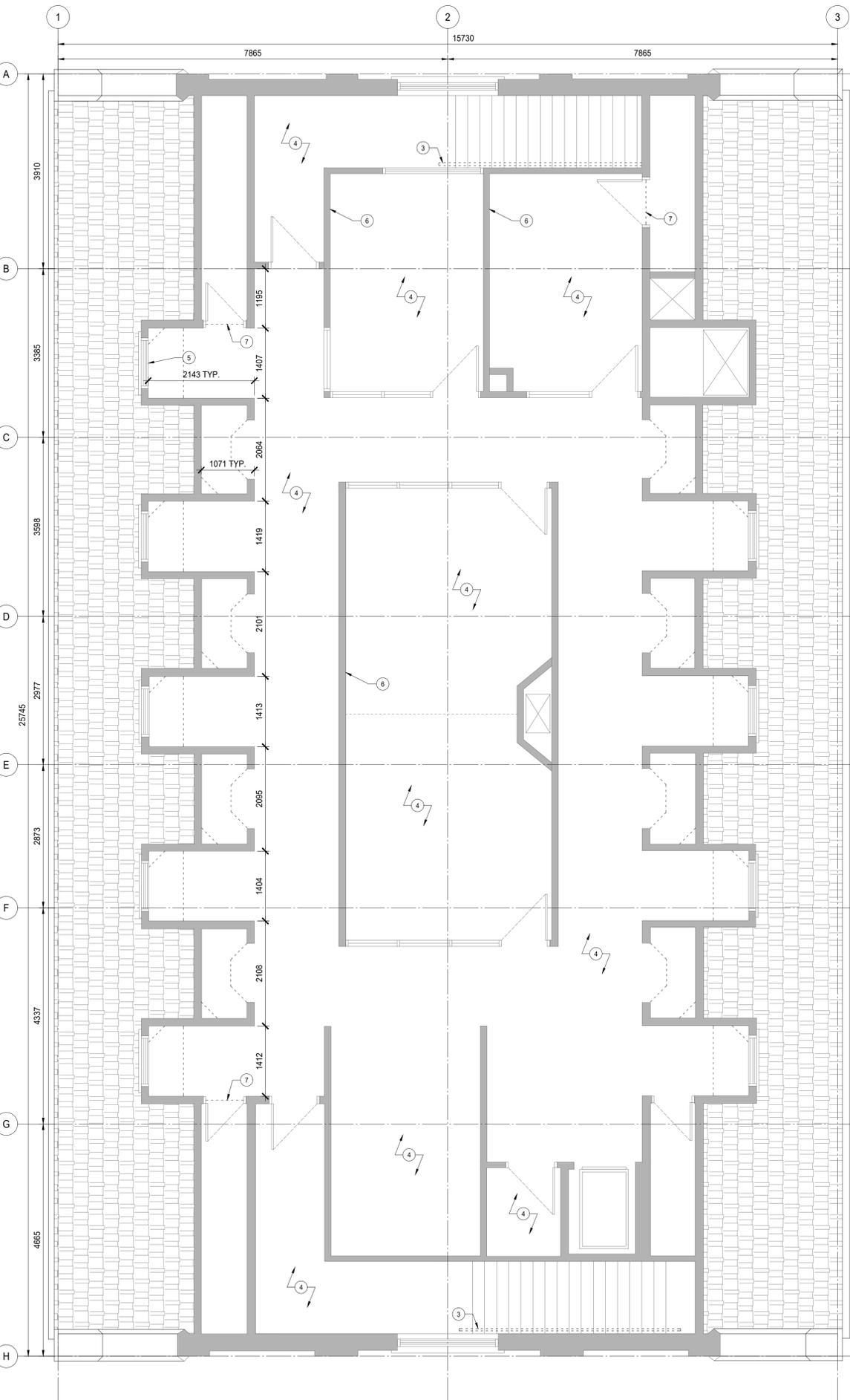
CLIENT FEDERAL BUILDING

PROJECT TBU 8 RESOURCE CENTRE INTERIOR FIT-UP

CONTENTS MAIN AND SECOND FLOOR DEMOLITION PLANS

PROJECT NUMBER SOA 7222198
DATE 2018/05/22

SHEET NUMBER A1.1



1 MAIN FLOOR - DEMOLITION PLAN
A1.1 SCALE: 1:50

2 SECOND FLOOR - DEMOLITION PLAN
A1.1 SCALE: 1:50



GENERAL NOTES

- LINETYPES**
- SMOKE SEPARATION
 - 45 MIN FIRE SEPARATION
 - 1 HOUR FIRE SEPARATION
 - 2 HOUR FIRE SEPARATION
 - 3 HOUR FIRE SEPARATION
 - 150mmØ PERFORATED DRAIN TUBING
 - 150mmØ SOLID DRAIN TUBING
 - POLY VAPOUR BARRIER
 - BUILDING WRAP
 - AIR/WATER BARRIER
 - AIR/WATER/VAPOUR BARRIER
 - OBJECT OVERHEAD
 - ROOFLINE ABOVE
 - CENTER LINE
 - DEMOLINE
 - GRIDLINE
 - HIDDEN LINE

EXISTING CONDITIONS

- EXISTING WALL TO REMAIN
- EXISTING WINDOW TO REMAIN
- DIRECTION OF SWING
- DOOR NUMBER
- EXISTING DOOR TO REMAIN

DEMO CONDITIONS

- EXISTING WALL TO BE DEMOLISHED
- EXISTING WINDOW TO BE DEMOLISHED
- EXISTING DOOR TO BE DEMOLISHED

NEW CONDITIONS

- NEW WALL
- NEW WINDOW IN NEW WALL
- DIRECTION OF SWING
- DOOR NUMBER
- NEW DOOR & FRAME IN NEW WALL

CEILING DEMOLITION NOTES

1. DEMOLISH EXISTING ACOUSTIC CEILING TILE CEILING
2. PROFILE OF HEADER TO BE MODIFIED - REFER TO ELEVATIONS, TYP.

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 - 7
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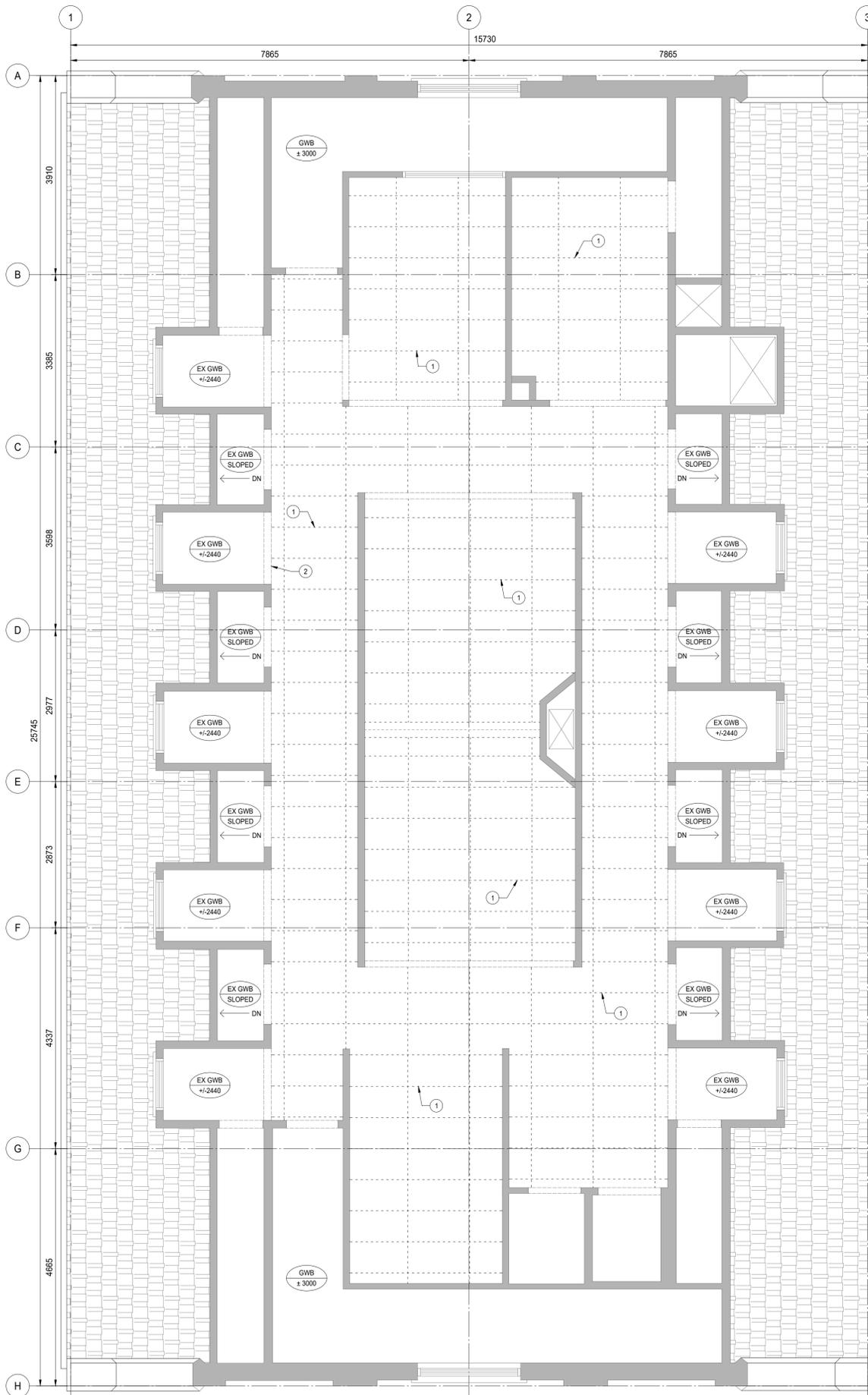
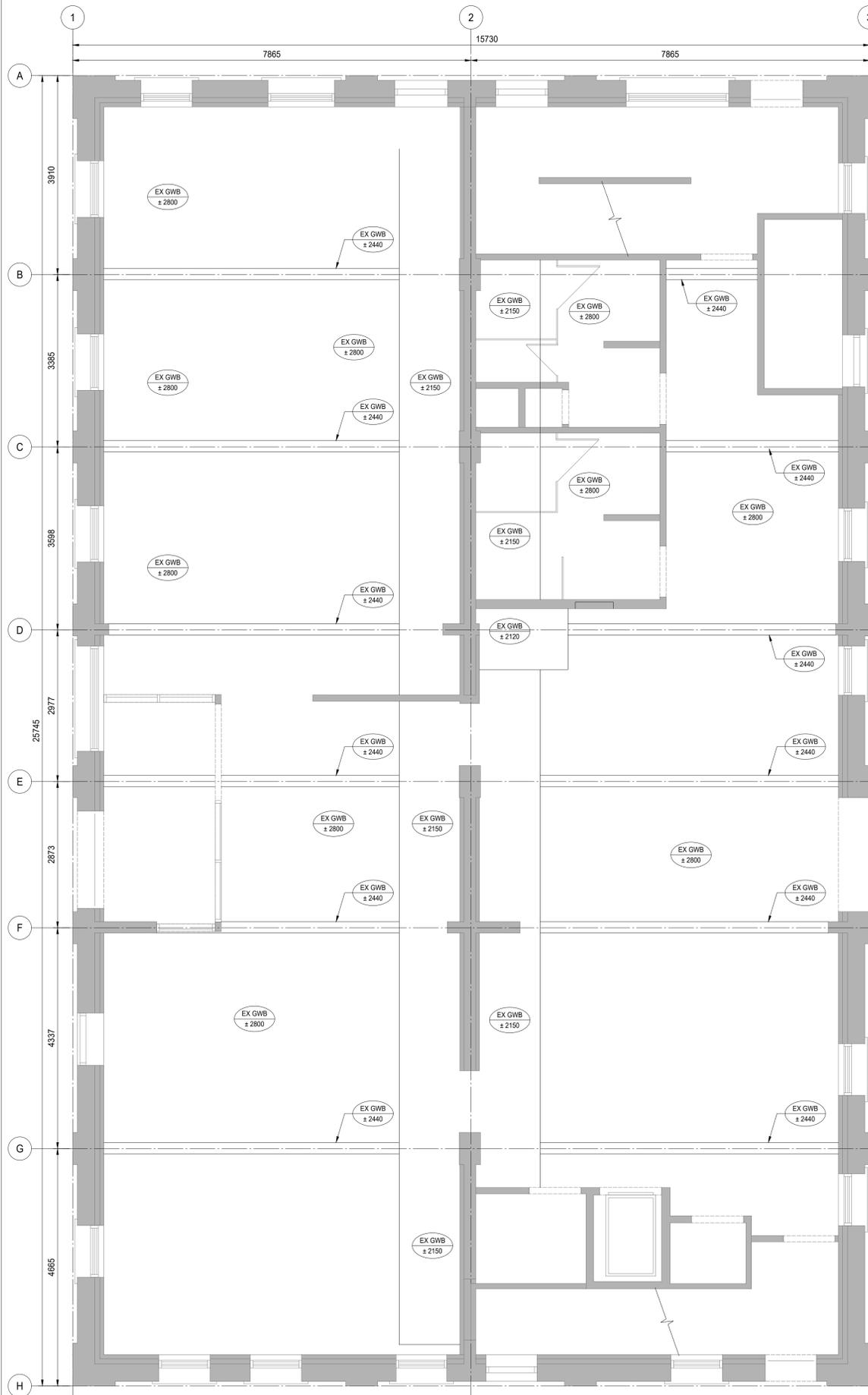
CLIENT **FEDERAL BUILDING**

PROJECT **TBU 8 RESOURCE CENTRE INTERIOR FIT-UP**

CONTENTS
MAIN AND SECOND FLOOR REFLECTED CEILING DEMOLITION PLANS

PROJECT NUMBER
SOA 7222198
DATE
2018/05/22

SHEET NUMBER
A1.2



1 MAIN FLOOR - REFLECTED CEILING DEMOLITION PLAN
A1.2 SCALE: 1:50

2 SECOND FLOOR - REFLECTED CEILING DEMOLITION PLAN
A1.2 SCALE: 1:50



GENERAL NOTES

- LINE TYPES**
- SMOKE SEPARATION
 - 45 MIN FIRE SEPARATION
 - 1 HOUR FIRE SEPARATION
 - 2 HOUR FIRE SEPARATION
 - 3 HOUR FIRE SEPARATION
 - 150mmØ PERFORATED DRAIN TUBING
 - 150mmØ SOLID DRAIN TUBING
 - POLY VAPOUR BARRIER
 - BUILDING WRAP
 - AIR/WATER BARRIER
 - AIR/WATER VAPOUR BARRIER
 - OBJECT OVERHEAD
 - ROOFLINE ABOVE
 - CENTER LINE
 - DEMOLINE
 - GRIDLINE
 - HIDDEN LINE
- PROPERTY LINE

- EXISTING CONDITIONS**
- EXISTING WALL TO REMAIN
 - EXISTING WINDOW TO REMAIN
 - DIRECTION OF SWING
 - DOOR NUMBER
 - EXISTING DOOR TO REMAIN

- DEMO CONDITIONS**
- EXISTING WALL TO BE DEMOLISHED
 - EXISTING WINDOW TO BE DEMOLISHED
 - EXISTING DOOR TO BE DEMOLISHED

- NEW CONDITIONS**
- NEW WALL
 - NEW WINDOW IN NEW WALL
 - DIRECTION OF SWING
 - DOOR NUMBER
 - NEW DOOR & FRAME IN NEW WALL

WALL TYPE LEGEND

- W1 TYPICAL INTERIOR PARTITION
13mm GYPSUM BOARD
92mm STEEL STUDS @ 400mm O/C
BATT INSULATION
13mm GYPSUM BOARD

CONSTRUCTION NOTES

1. NEW ROLLER BLIND
2. NEW HORIZONTAL BLIND
3. SUPPLY AND INSTALL NEW HIGH DENSITY FILE SYSTEM
4. NEW WINDOW FILM

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ISSUES / REVISIONS

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| 5 | | |
| 6 | | |
| 7 | | |
| 8 | | |

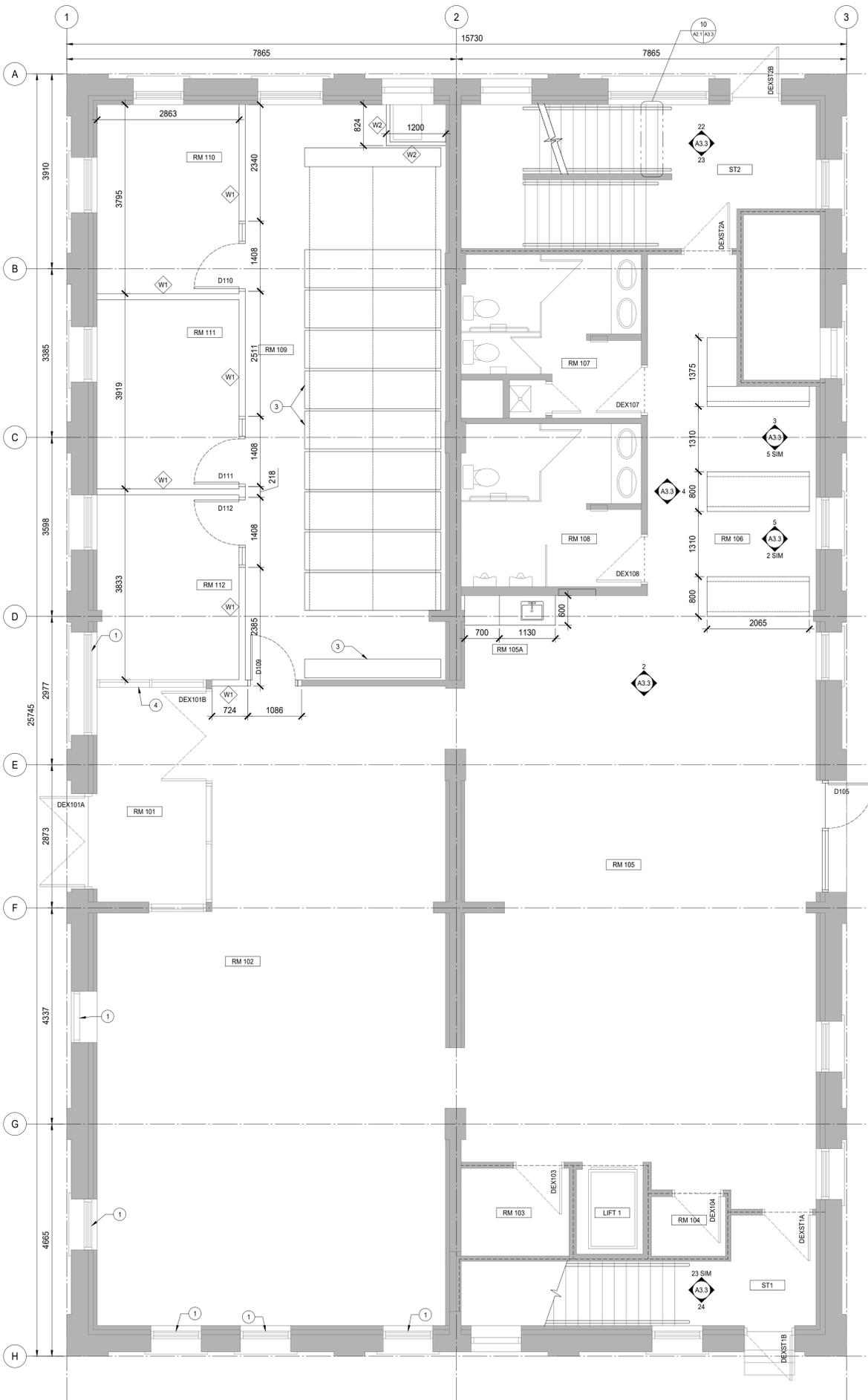
CLIENT: FEDERAL BUILDING

PROJECT: TBU 8 RESOURCE CENTRE INTERIOR FIT-UP

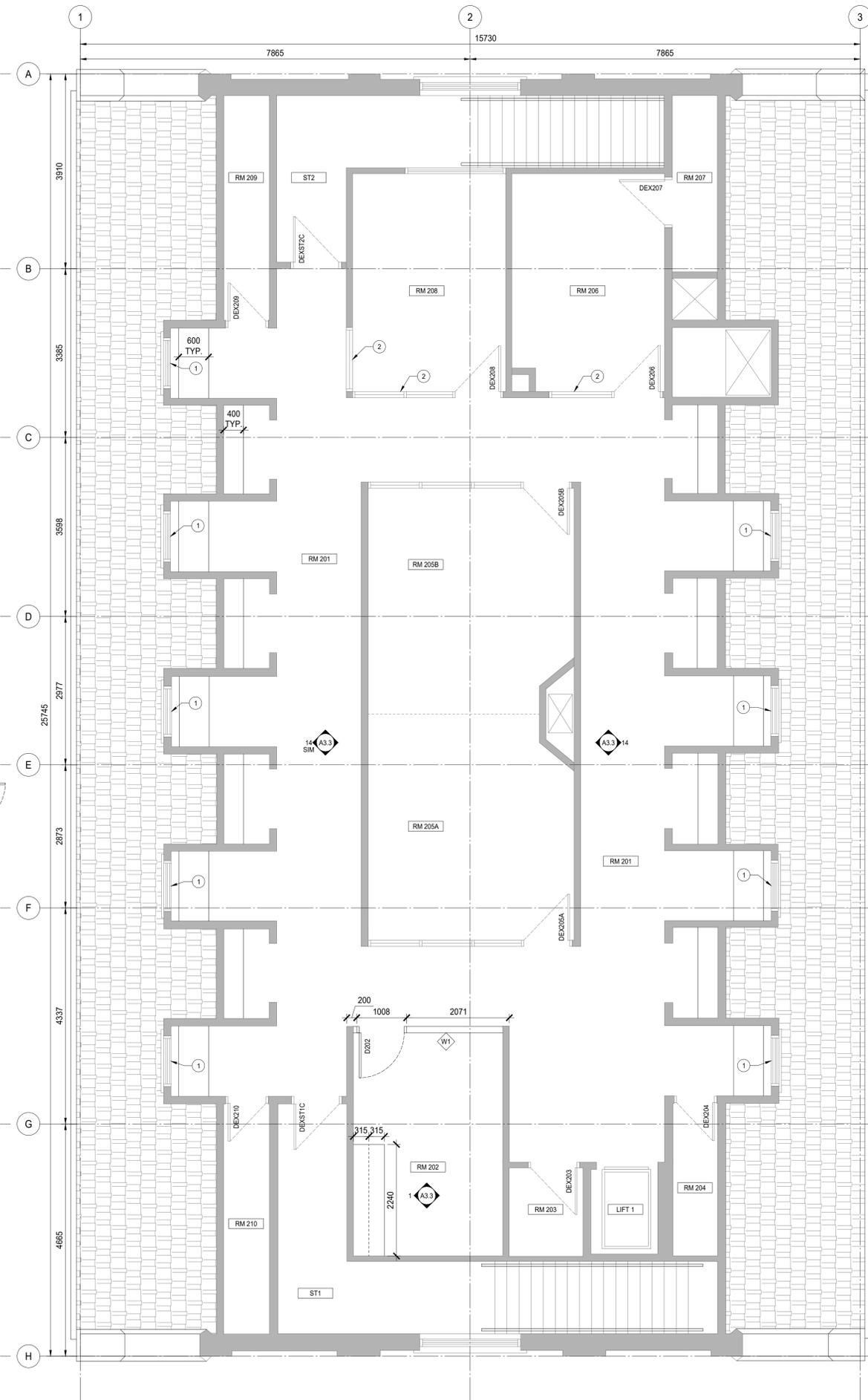
CONTENTS: MAIN AND SECOND FLOOR NEW CONSTRUCTION PLANS

PROJECT NUMBER: SOA 7222198
DATE: 2018/05/22

SHEET NUMBER: A2.1



1 MAIN FLOOR - NEW CONSTRUCTION PLAN
A2.1
SCALE: 1:50



2 SECOND FLOOR - NEW CONSTRUCTION PLAN
A2.1
SCALE: 1:50



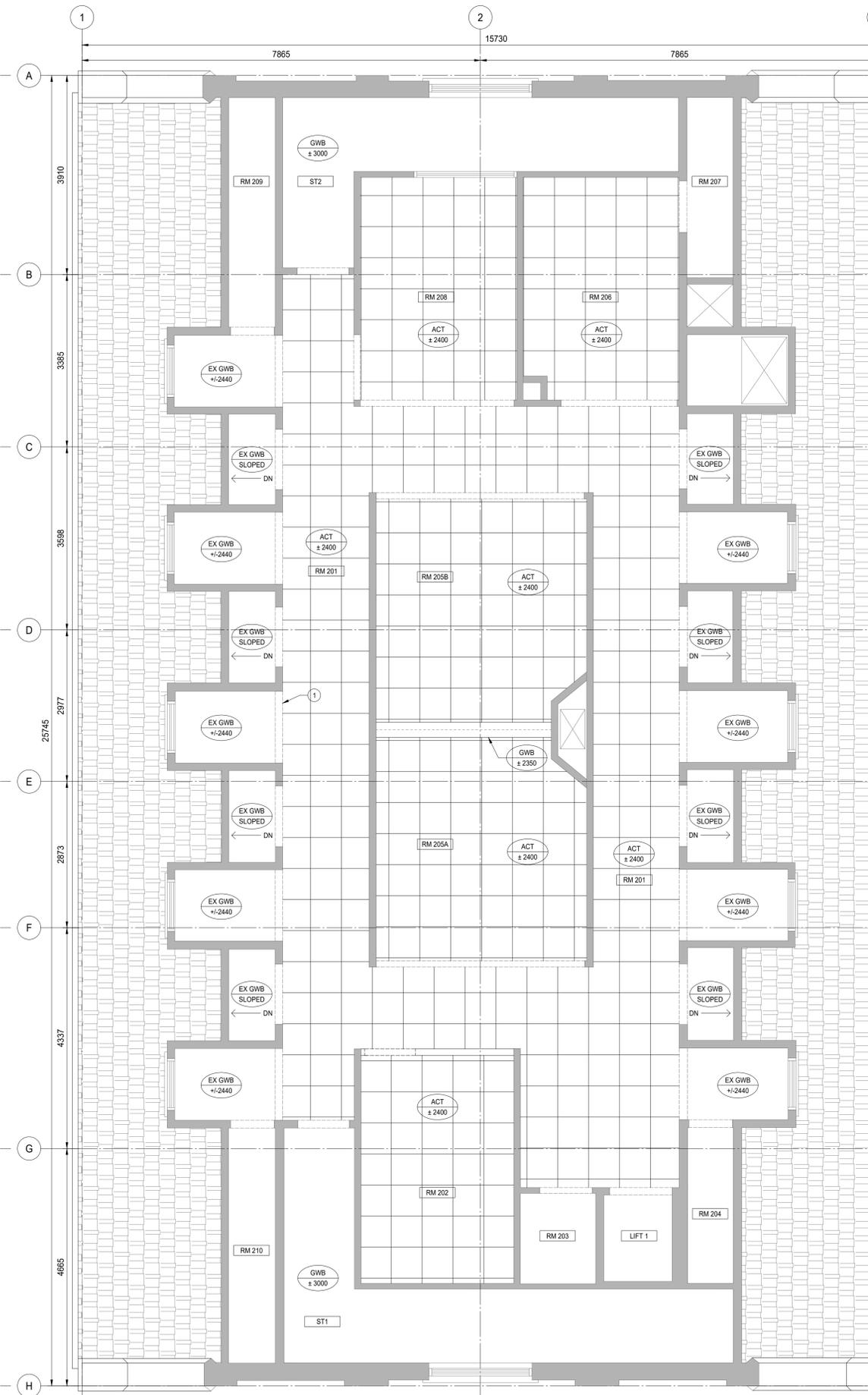
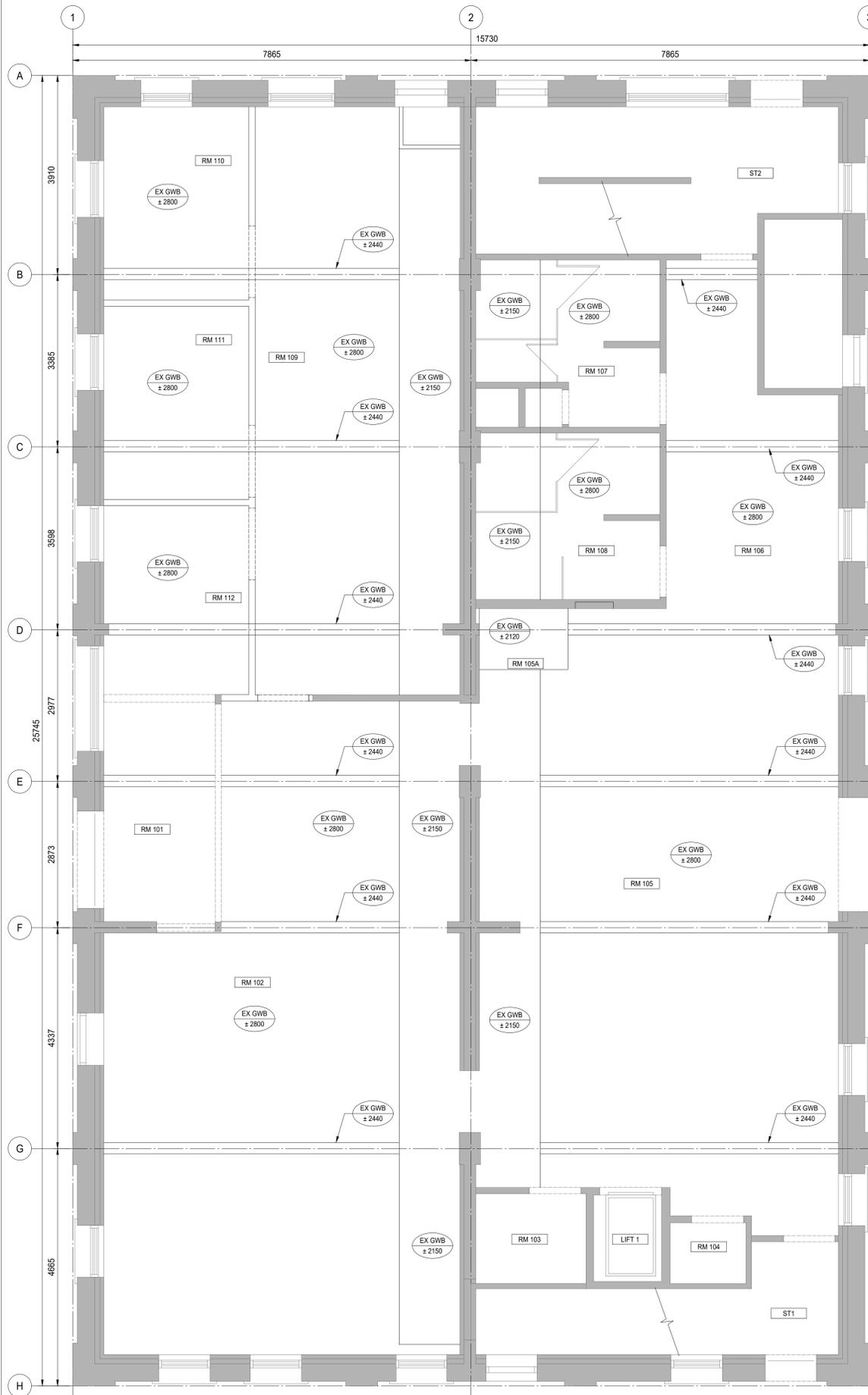
GENERAL NOTES

- LINE TYPES**
- SMOKE SEPARATION
 - 45 MIN FIRE SEPARATION
 - 1 HOUR FIRE SEPARATION
 - 2 HOUR FIRE SEPARATION
 - 3 HOUR FIRE SEPARATION
 - 150mmØ PERFORATED DRAIN TUBING
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 - OBJECT OVERHEAD
 - ROOFLINE ABOVE
 - CENTER LINE
 - DEMOLINE
 - GRIDLINE
 - HIDDEN LINE
- PROPERTY LINE

- EXISTING CONDITIONS**
- EXISTING WALL TO REMAIN
 - EXISTING WINDOW TO REMAIN
 - DIRECTION OF SWING
 - DOOR NUMBER
 - EXISTING DOOR TO REMAIN
- DEMO CONDITIONS**
- EXISTING WALL TO BE DEMOLISHED
 - EXISTING WINDOW TO BE DEMOLISHED
 - EXISTING DOOR TO BE DEMOLISHED
- NEW CONDITIONS**
- NEW WALL
 - NEW WINDOW IN NEW WALL
 - DIRECTION OF SWING
 - DOOR NUMBER
 - NEW DOOR & FRAME IN NEW WALL

CEILING CONSTRUCTION NOTES

1. PATCH AND REPAIR HEADER TO SUIT NEW PROFILE, TYP.



1 MAIN FLOOR - REFLECTED CEILING PLAN
A2.2 SCALE: 1:50

2 SECOND FLOOR - REFLECTED CEILING PLAN
A2.2 SCALE: 1:50

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| 5 | |
| 6 | |
| 7 | |
| 8 | |

CLIENT **RCMP ACADEMY DEPOT**

PROJECT **FEDERAL BUILDING INTERIOR FIT-UP**

CONTENTS
MAIN AND SECOND FLOOR REFLECTED CEILING PLANS

PROJECT NUMBER
SOA 7222198
DATE
2018/05/22

SHEET NUMBER
A2.2



GENERAL NOTES

- LINETYPES**
- SMOKE SEPARATION
 - 45 MIN FIRE SEPARATION
 - 1 HOUR FIRE SEPARATION
 - 2 HOUR FIRE SEPARATION
 - 3 HOUR FIRE SEPARATION
 - 150mmØ PERFORATED DRAIN TUBING
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 - POLY VAPOUR BARRIER
 - BUILDING WRAP
 - AIR/WATER VAPOUR BARRIER
 - AIR/WATER VAPOUR BARRIER
 - OBJECT OVERHEAD
 - ROOFLINE ABOVE
 - CENTER LINE
 - DEMOLINE
 - GRIDLINE
 - HIDDEN LINE
- PROPERTY LINE

- EXISTING CONDITIONS**
- EXISTING WALL TO REMAIN
 - EXISTING WINDOW TO REMAIN
 - DIRECTION OF SWING
 - DOOR NUMBER
 - EXISTING DOOR TO REMAIN

- DEMO CONDITIONS**
- EXISTING WALL TO BE DEMOLISHED
 - EXISTING WINDOW TO BE DEMOLISHED
 - EXISTING DOOR TO BE DEMOLISHED

- NEW CONDITIONS**
- NEW WALL
 - NEW WINDOW IN NEW WALL
 - DIRECTION OF SWING
 - DOOR NUMBER
 - NEW DOOR & FRAME IN NEW WALL

FINISHES NOTES

- A. ALL WALLS TO BE PAINTED.
- B. ALL DOORS AND FRAMES TO BE PAINTED.
- C. ALL STAIR TREADS AND RISERS TO BE REPLACED WITH NEW RUBBER TREADS AND RISERS.
- 1. 100mm REDUCER STRIP WITH RESILIENT FLOORING FINISH - ALIGN WITH EDGE OF HIGH DENSITY SHELVING SYSTEM

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ISSUES / REVISIONS

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| 5 | | |
| 6 | | |
| 7 | | |
| 8 | | |

CLIENT **FEDERAL BUILDING**

PROJECT **TBU 8 RESOURCE CENTRE INTERIOR FIT-UP**

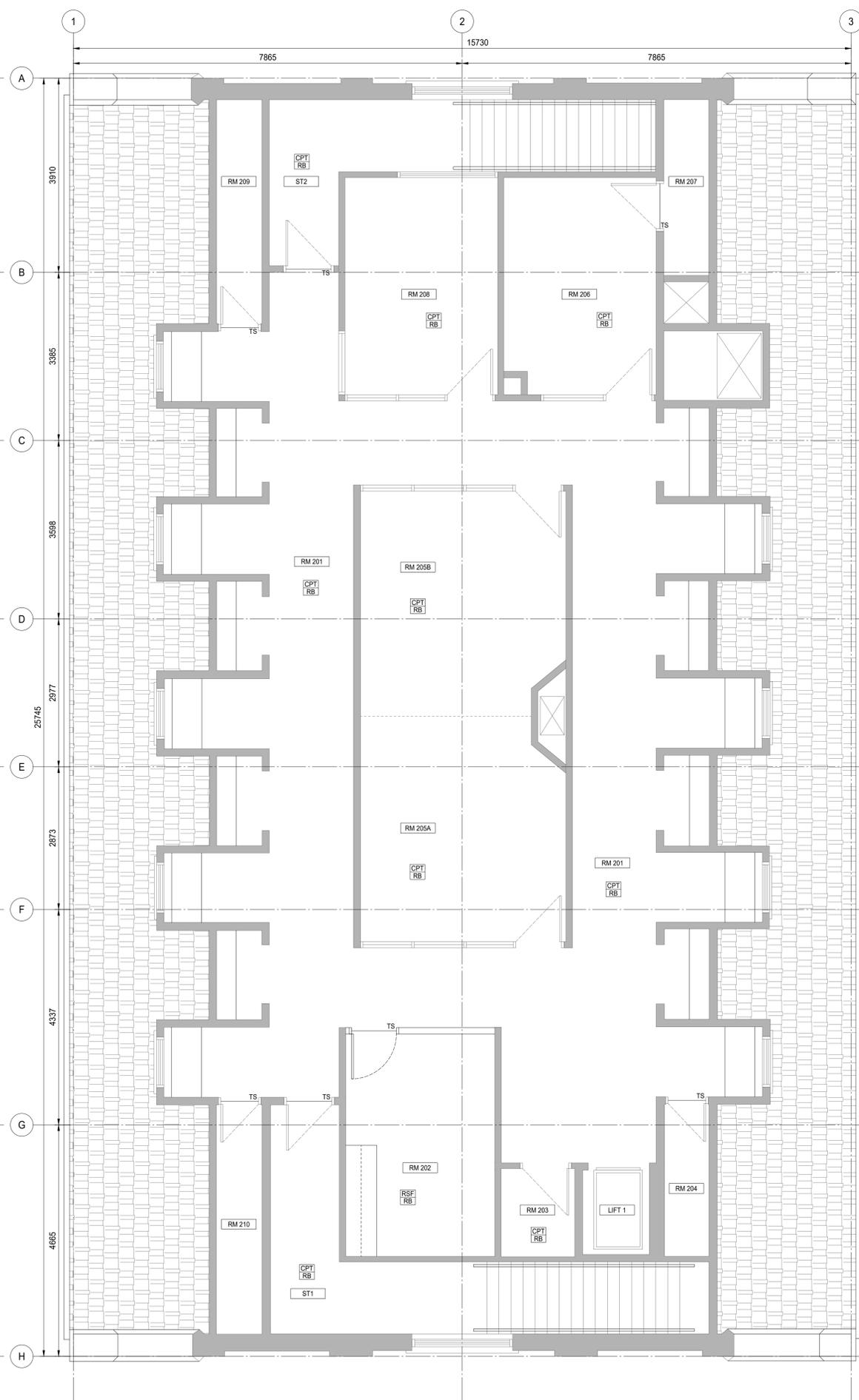
CONTENTS **MAIN AND SECOND FLOOR FINISHES PLANS**

PROJECT NUMBER **SOA 7222198**
DATE **2018/05/22**

SHEET NUMBER **A3.1**



1 MAIN FLOOR - FINISHES PLAN
A3.1 SCALE: 1:50



2 SECOND FLOOR - FINISHES PLAN
A3.1 SCALE: 1:50



GENERAL NOTES

- LINETYPES**
- SMOKE SEPARATION
 - 45 MIN FIRE SEPARATION
 - 1 HOUR FIRE SEPARATION
 - 2 HOUR FIRE SEPARATION
 - 3 HOUR FIRE SEPARATION
 - 150mmØ PERFORATED DRAIN TUBING
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- EXISTING CONDITIONS**
- EXISTING WALL TO REMAIN
 - EXISTING WINDOW TO REMAIN
 - DIRECTION OF SWING
 - DOOR NUMBER
 - EXISTING DOOR TO REMAIN

- DEMO CONDITIONS**
- EXISTING WALL TO BE DEMOLISHED
 - EXISTING WINDOW TO BE DEMOLISHED
 - EXISTING DOOR TO BE DEMOLISHED

- NEW CONDITIONS**
- NEW WALL
 - NEW WINDOW IN NEW WALL
 - DIRECTION OF SWING
 - DOOR NUMBER
 - NEW DOOR & FRAME IN NEW WALL

FURNITURE NOTES

- A. ALL FURNITURE IS NOT IN CONTRACT, FOR REFERENCE ONLY.
1. SHREDDER, N.I.C.
 2. PHOTO COPIER, N.I.C.

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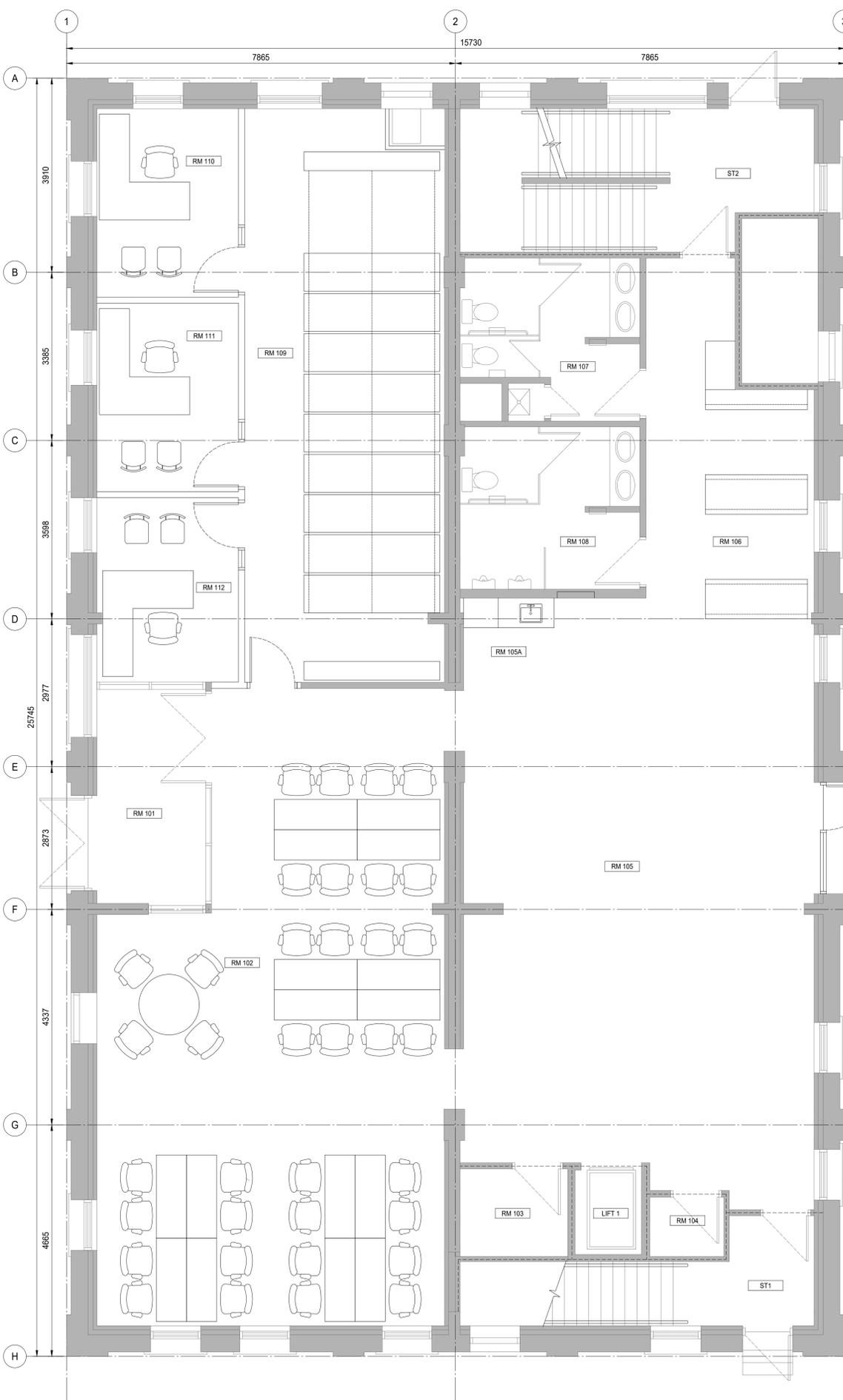
CLIENT **FEDERAL BUILDING**

PROJECT **TBU 8 RESOURCE CENTRE INTERIOR FIT-UP**

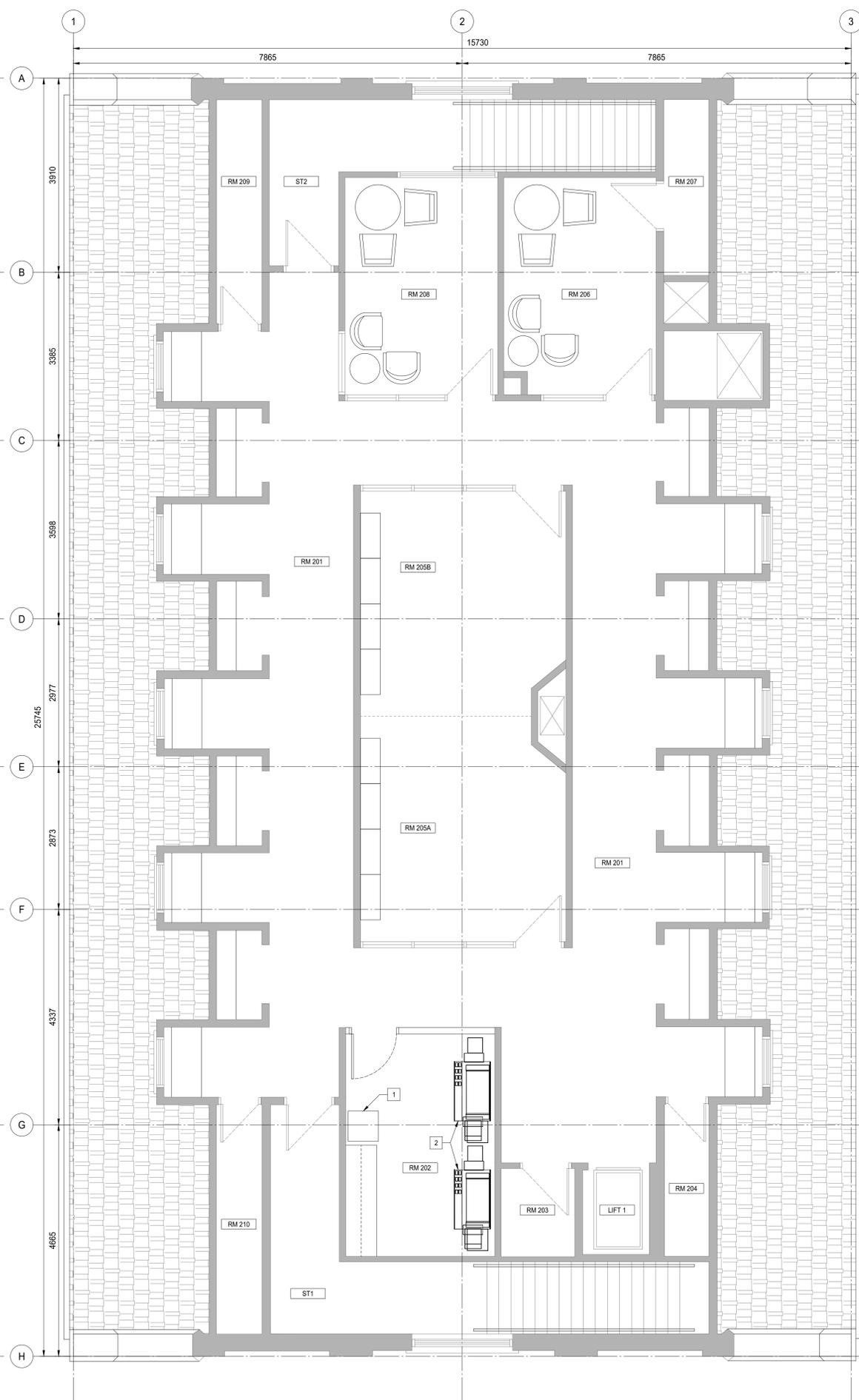
CONTENTS **MAIN AND SECOND FLOOR FURNITURE PLANS**

PROJECT NUMBER **SOA 7222198**
DATE **2018/05/22**

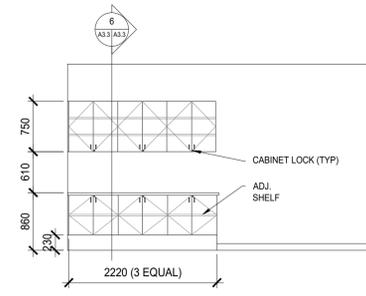
SHEET NUMBER **A3.2**



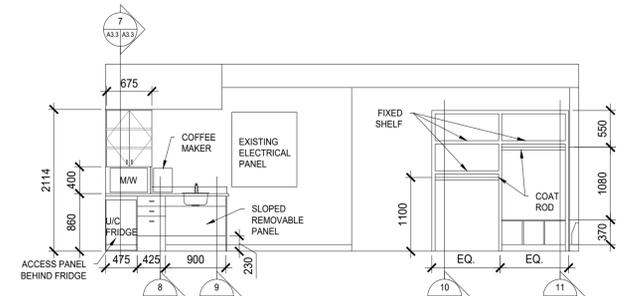
1 MAIN FLOOR - FURNITURE PLAN
A3.2 SCALE: 1:50



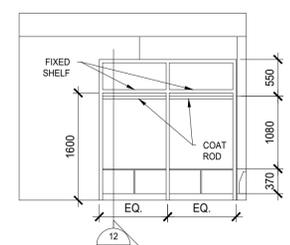
2 SECOND FLOOR - FURNITURE PLAN
A3.2 SCALE: 1:50



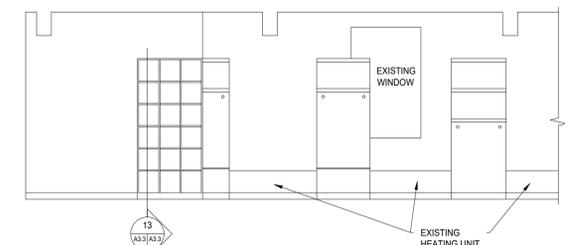
1 INTERIOR ELEVATION
A3.3 SCALE: 1:50



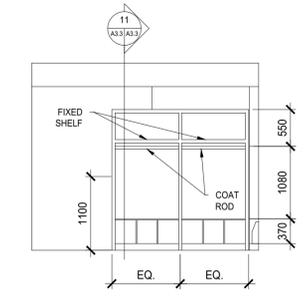
2 INTERIOR ELEVATION
A3.3 SCALE: 1:50



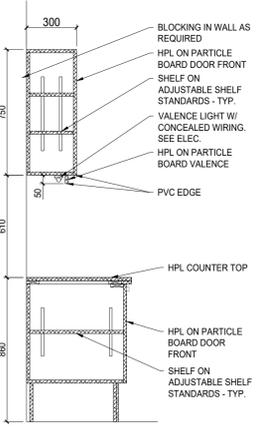
3 INTERIOR ELEVATION
A3.3 SCALE: 1:50



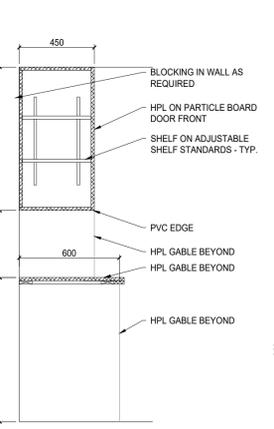
4 INTERIOR ELEVATION
A3.3 SCALE: 1:50



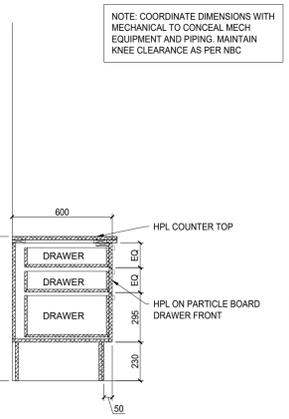
5 INTERIOR ELEVATION
A3.3 SCALE: 1:50



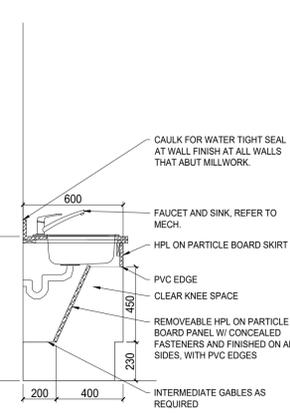
6 MILLWORK DETAIL
A3.3 SCALE: 1:20



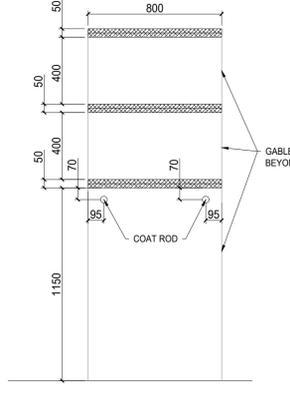
7 MILLWORK DETAIL
A3.3 SCALE: 1:20



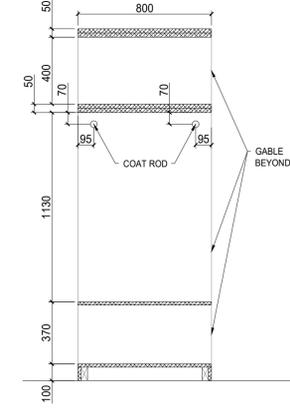
8 MILLWORK DETAIL
A3.3 SCALE: 1:20



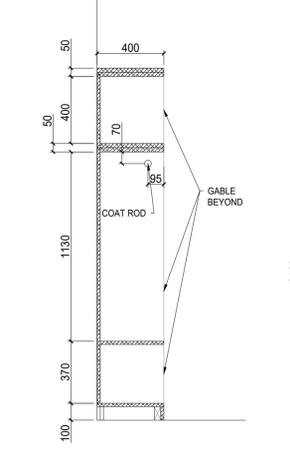
9 MILLWORK DETAIL
A3.3 SCALE: 1:20



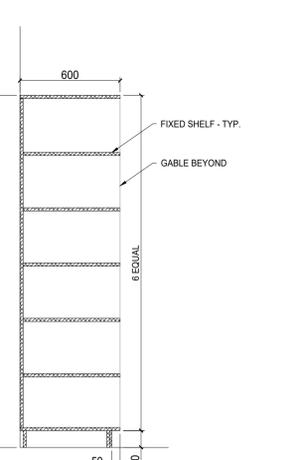
10 MILLWORK DETAIL
A3.3 SCALE: 1:20



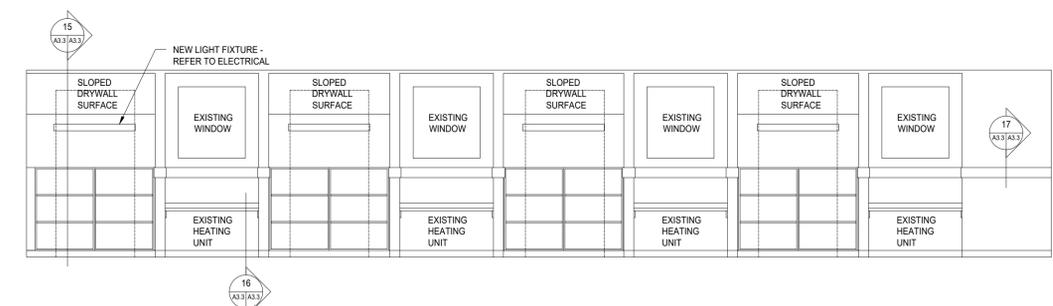
11 MILLWORK DETAIL
A3.3 SCALE: 1:20



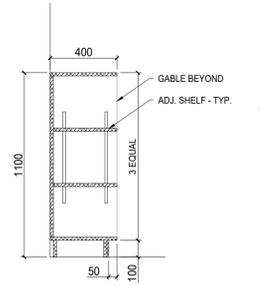
12 MILLWORK DETAIL
A3.3 SCALE: 1:20



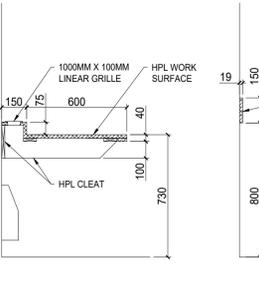
13 MILLWORK DETAIL
A3.3 SCALE: 1:20



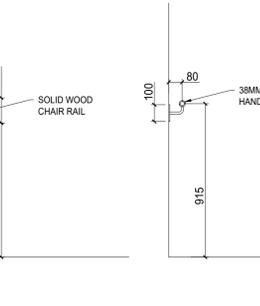
14 ROOM 201 ELEVATIONS
A3.3 SCALE: 1:50



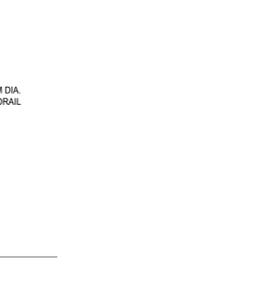
15 MILLWORK DETAIL
A3.3 SCALE: 1:20



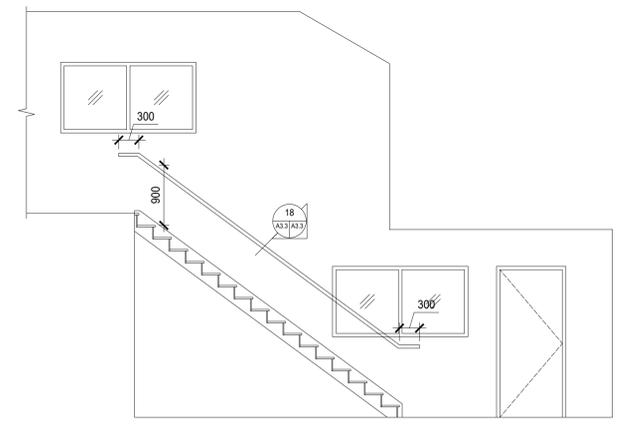
16 MILLWORK DETAIL
A3.3 SCALE: 1:20



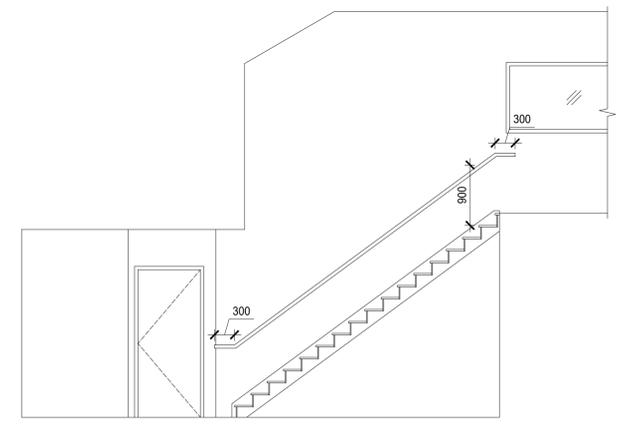
17 MILLWORK DETAIL
A3.3 SCALE: 1:20



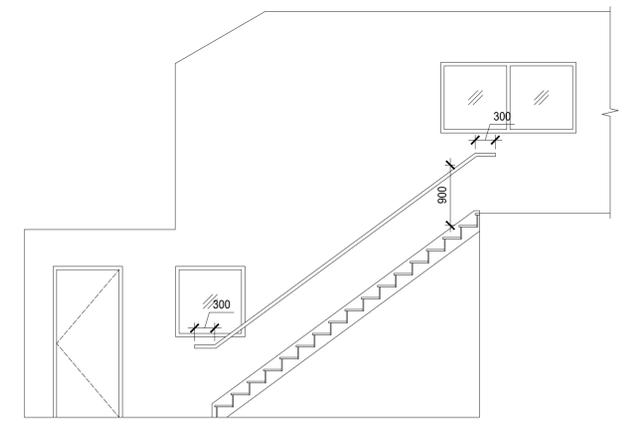
18 HANDRAIL DETAIL
A3.3 SCALE: 1:20



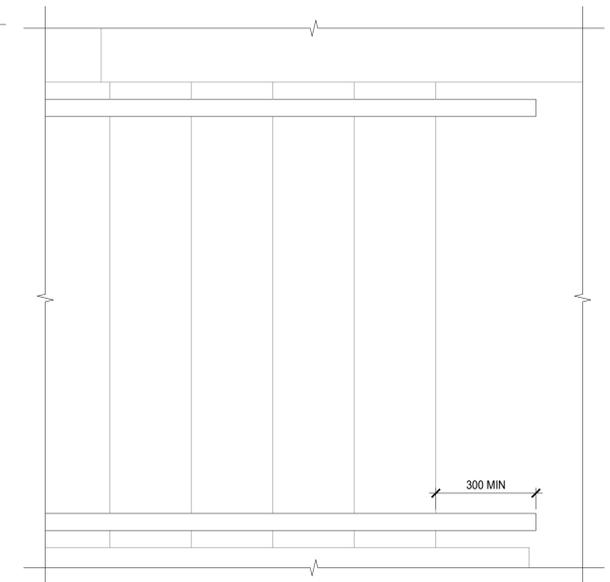
22 INTERIOR ELEVATION
A3.3 SCALE: 1:50



23 INTERIOR ELEVATION
A3.3 SCALE: 1:50



24 INTERIOR ELEVATION
A3.3 SCALE: 1:50



25 STAIR NOSING DETAIL
A3.3 SCALE: 1:10

SEALS



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ISSUES / REVISIONS

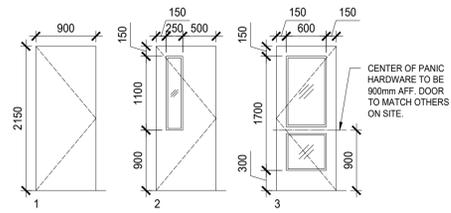
| | | |
|---|----------|---------------------------------------|
| 1 | 17/10/05 | ISSUED FOR SCHEMATIC DESIGN |
| 2 | 17/12/12 | ISSUED FOR 86% CONSTRUCTION DOCUMENTS |
| 3 | 18/02/01 | ISSUED FOR 99% CONSTRUCTION DOCUMENTS |
| 4 | 18/05/22 | ISSUED FOR CONSTRUCTION |
| 5 | | |
| 6 | | |
| 7 | | |
| 8 | | |

CLIENT **FEDERAL BUILDING**

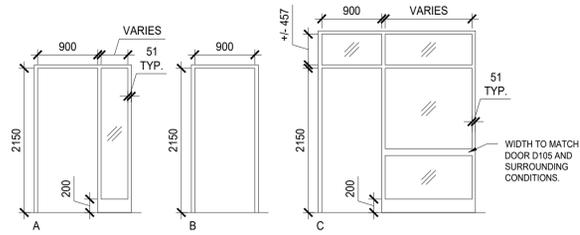
PROJECT **TBU 8 RESOURCE CENTRE INTERIOR FIT-UP**

CONTENTS
INTERIOR ELEVATIONS, MILLWORK, SECTIONS, AND STAIR DETAILS

PROJECT NUMBER **SOA 7222198** SHEET NUMBER **A3.3**
DATE **2018/05/22**



1 DOOR TYPES
A3.4 SCALE: 1:50



2 FRAME TYPES
A3.4 SCALE: 1:50

| NO. | DOOR | | | | | FRAME | | | FIRE RATING | HRDW SET | HARDWARE NOTES |
|---------|--------------|-----|-----------|--------|------|----------|--------|------|-------------|----------|----------------|
| | NOMINAL SIZE | STC | MATERIAL | FINISH | TYPE | MATERIAL | FINISH | TYPE | | | |
| DEX101A | EX | EX | EX | EX | EX | EX | EX | EX | | EX | |
| DEX101B | EX | EX | EX | EX | EX | EX | EX | EX | | EX | |
| DEX103 | EX | EX | EX | PT | EX | EX | PT | EX | | EX | |
| DEX104 | EX | EX | EX | PT | EX | EX | PT | EX | | EX | |
| D105 | 915 X 2134 | - | ALUM STFR | - | 3 | ALUM | - | C | | 1 | |
| DEX107 | EX | EX | EX | PT | EX | EX | PT | EX | | EX | |
| DEX108 | EX | EX | EX | PT | EX | EX | PT | EX | | EX | |
| D109 | 915 X 2134 | - | HM | PT | 2 | HM | PT | B | 45 MIN | 2 | |
| D110 | 915 X 2134 | 45 | WD | PT | 1 | HM | PT | A | | 3 | |
| D111 | 915 X 2134 | 45 | WD | PT | 1 | HM | PT | A | | 3 | |
| D112 | 915 X 2134 | 45 | WD | PT | 1 | HM | PT | A | | 3 | |
| D202 | 915 X 2134 | 45 | WD | PT | 2 | HM | PT | B | | 4 | |
| DEX203 | EX | EX | EX | PT | EX | EX | PT | EX | | EX | |
| DEX204 | EX | EX | EX | PT | EX | EX | PT | EX | | EX | |
| DEX205A | EX | EX | EX | PT | EX | EX | PT | EX | | EX | |
| DEX205B | EX | EX | EX | PT | EX | EX | PT | EX | | EX | |
| DEX206 | EX | EX | EX | PT | EX | EX | PT | EX | | EX | |
| DEX207 | EX | EX | EX | PT | EX | EX | PT | EX | | EX | |
| DEX208 | EX | EX | EX | PT | EX | EX | PT | EX | | EX | |
| DEX209 | EX | EX | EX | PT | EX | EX | PT | EX | | EX | |
| DEX210 | EX | EX | EX | PT | EX | EX | PT | EX | | EX | |
| DEXST1A | EX | EX | EX | PT | EX | EX | PT | EX | | EX | |
| DEXST1B | EX | EX | EX | PT | EX | EX | PT | EX | | EX | |
| DEXST1C | EX | EX | EX | PT | EX | EX | PT | EX | | EX | |
| DEXST2A | EX | EX | EX | PT | EX | EX | PT | EX | | EX | |
| DEXST2B | EX | EX | EX | PT | EX | EX | PT | EX | | EX | |
| DEXST2C | EX | EX | EX | PT | EX | EX | PT | EX | | EX | |

3 DOOR SCHEDULE
A3.4

SEALS



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 - 8

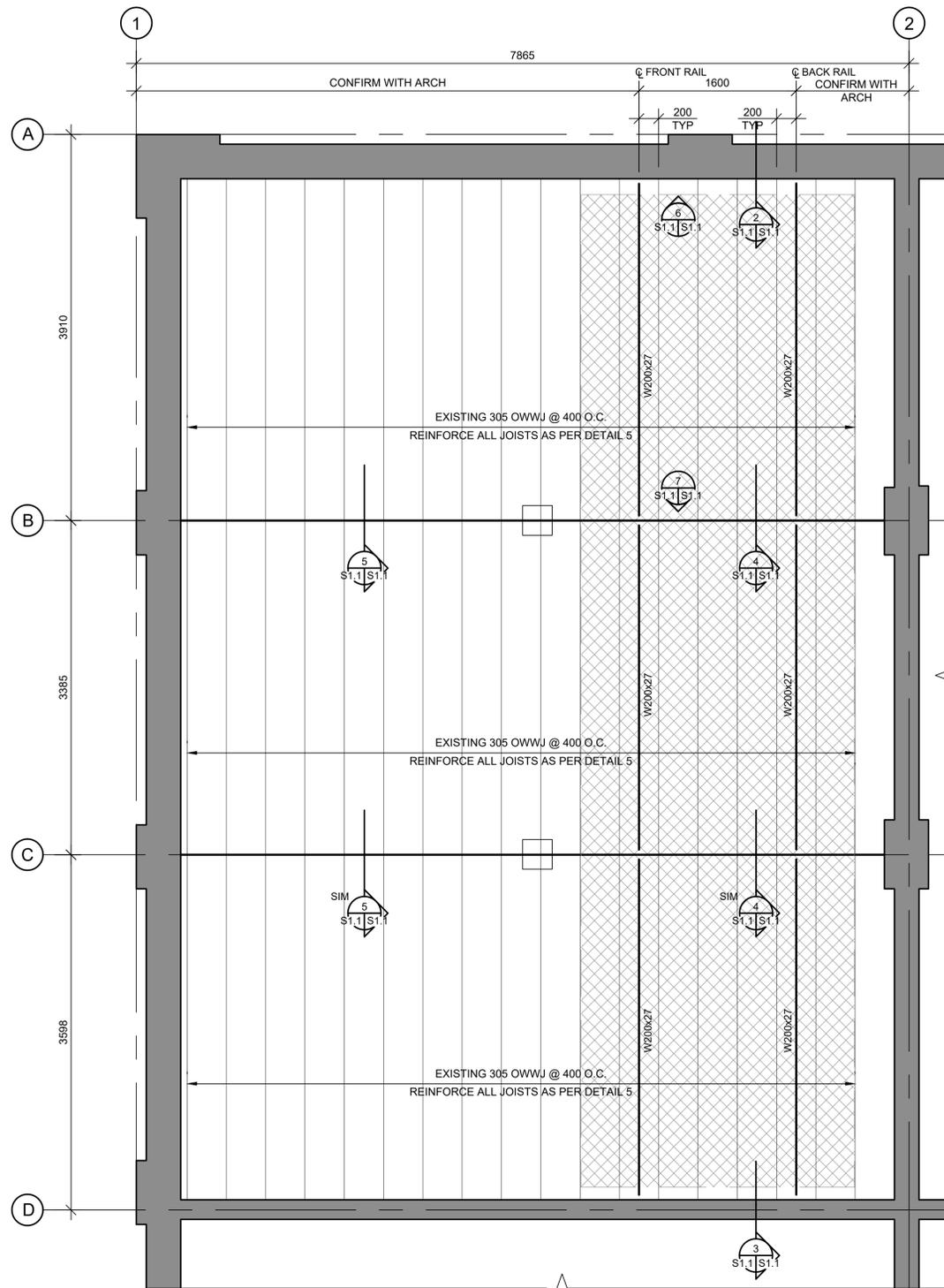
CLIENT
FEDERAL BUILDING

PROJECT
TBU 8 RESOURCE CENTRE
INTERIOR FIT-UP

CONTENTS
DOOR SCHEDULE

PROJECT NUMBER
SOA 7222198
DATE
2018/05/22

SHEET NUMBER
A3.4



1 PARTIAL MAIN FLOOR FRAMING PLAN
S1.1/S1.1 1:30

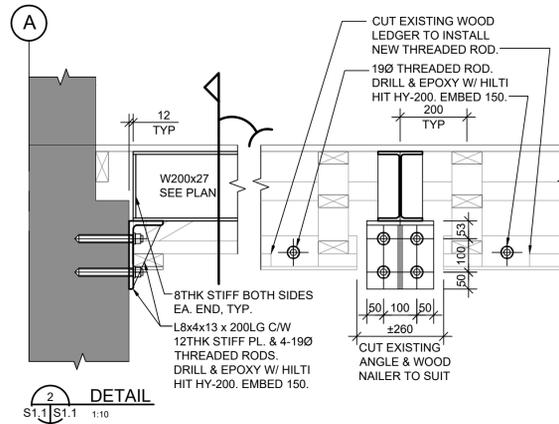
DESIGN LOADS (UNFACTORED):
FRONT RAIL: 7.0 kN/m
BACK RAIL: 6.75 kN/m

NOTE:

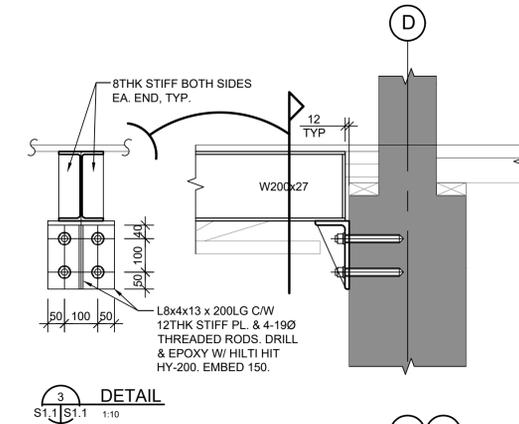
- SEE ELECTRICAL & MECHANICAL DRAWINGS FOR INSTRUCTIONS REGARDING EXISTING EQUIPMENT.
- HIGH DENSITY STORAGE UNIT SUPPLIER SHALL ENSURE RAILS ARE LOCATED DIRECTLY ABOVE AND CENTERED ABOVE NEW STEEL BEAMS.

LEGEND:

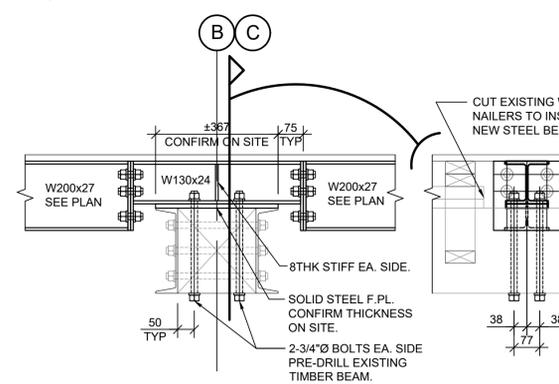
HATCH DENOTES FILING SYSTEM ABOVE



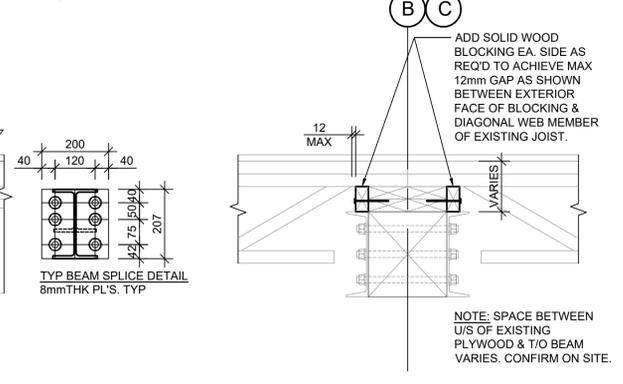
2 DETAIL
S1.1/S1.1 1:10



3 DETAIL
S1.1/S1.1 1:10



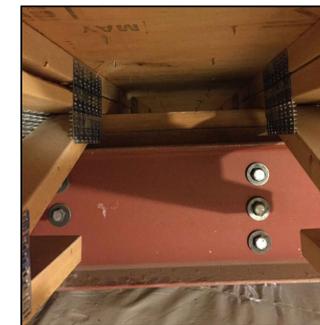
4 DETAIL
S1.1/S1.1 1:10



5 TYP DETAIL @ ALL JOISTS (GRIDS B,C)
S1.1/S1.1 1:10



6 PHOTO 1
S1.1/S1.1 1:10



7 PHOTO 2
S1.1/S1.1 1:10

GENERAL NOTES

1. GENERAL SPECIFICATIONS: NATIONAL BUILDING CODE OF CANADA, 2015.
2. UNLESS NOTED OTHERWISE, TYPICAL DETAILS APPLY THROUGHOUT.
3. ALL DIMENSIONS ARE IN MILLIMETERS, UNLESS NOTED OTHERWISE.

EXISTING CONSTRUCTION

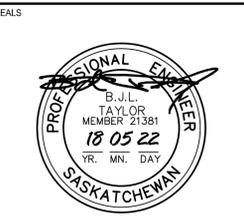
1. ALL INFORMATION CONCERNING EXISTING CONSTRUCTION HAS BEEN TAKEN FROM ORIGINAL DRAWINGS AND SITE MEASUREMENTS. CONTRACTOR TO CONFIRM ALL DIMENSIONS AND SITE CONDITIONS PRIOR TO COMMENCING CONSTRUCTION. IF EXISTING CONDITIONS DIFFER SIGNIFICANTLY CONTACT CONSULTANT IMMEDIATELY.
2. ALL EXISTING CONSTRUCTION ALTERED OR DAMAGED DURING THE COURSE OF THE WORK IS TO BE MADE GOOD TO MATCH.

STRUCTURAL STEEL

1. FABRICATE AND ERECT STRUCTURAL STEEL TO CAN/CSA-S16-14.
2. PROVIDE STRUCTURAL STEEL TO CSA-G40.21-13 WITH THE FOLLOWING GRADES: W SHAPES GRADE 350W, ALL OTHERS GRADE 300W.
3. PROVIDE ERECTION BOLTS, NUTS, AND WASHERS TO ASTM A325.
4. PERFORM WELDING IN ACCORDANCE WITH CSA W59-13 "WELDED STEEL CONSTRUCTION". ALL WELDING TO BE BY C/WB CERTIFIED WELDERS.
5. CONNECTIONS NOT DETAILED ON THE STRUCTURAL DRAWINGS SHALL BE DESIGNED AND DETAILED BY THE STEEL FABRICATOR.
6. SUBMIT SHOP DRAWINGS, CLEARLY INDICATING MATERIALS, SIZES, SPACING AND LOCATIONS OF STRUCTURAL MEMBERS, CONNECTIONS, ANCHORAGES, FRAMED OPENINGS AND SIZE AND TYPE OF FASTENERS AND WELDS.
7. TEMPORARY BRACING DURING CONSTRUCTION TO BE DESIGNED BY THE CONTRACTOR.
8. NO BURNING OF HOLES SHALL BE ALLOWED IN STRUCTURAL STEEL ANYWHERE.
9. PAINT STEEL SURFACES WITH ONE COAT OF SHOP PRIMER. STEEL IN CONTACT WITH CONCRETE SHALL NOT BE PRIMED.
10. FABRICATOR TO BE CERTIFIED AS A DIVISION 2 COMPANY UNDER CSA STANDARD W47.1-09 "CERTIFICATION OF COMPANIES FOR FUSION WELDING OF STEEL".

SAFETY

1. OBSERVE AND ENFORCE CONSTRUCTION SAFETY MEASURES REQUIRED BY THE NATIONAL BUILDING CODE OF CANADA, OCCUPATIONAL HEALTH AND SAFETY, MUNICIPAL STATUTES AND AUTHORITIES HAVING JURISDICTION.



ASSOCIATION OF PROFESSIONAL ENGINEERS OF SASKATCHEWAN
CERTIFICATE OF AUTHORIZATION
J. C. KENYON ENGINEERING INC.
NUMBER C794
PERMISSION TO CONSULT HELD BY:
DISCIPLINE SASK. REG. No. SIGNATURE
STRUCTURAL 21381

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5
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CLIENT **FEDERAL BUILDING**

PROJECT **TBU 8 RESOURCE CENTRE INTERIOR FIT-UP**

CONTENTS **PARTIAL MAIN FLOOR PLAN DETAILS, PHOTOS, GENERAL NOTES**

PROJECT NUMBER **170-17** SHEET NUMBER **S1.1**
DATE **2018/05/22**

TBU 8 RESOURCE CENTRE IMPROVEMENTS

MECHANICAL DRAWING LIST

| Drawing Number | Drawing Title | Scale |
|------------------------|-----------------------------------|--------|
| GENERAL | | |
| M0.0 | DRAWING LIST AND LEGENDS | N.T.S. |
| M0.1 | STANDARD DETAILS | N.T.S. |
| M0.2 | STANDARD DETAILS | N.T.S. |
| DEMOLITION | | |
| M1.0 | HVAC DEMOLITION PLAN MAIN FLOOR | 1:50 |
| M1.1 | HVAC DEMOLITION PLAN SECOND FLOOR | 1:50 |
| PLUMBING AND DRAINAGE | | |
| M2.0 | PLUMBING PLAN MAIN FLOOR | 1:50 |
| H.V.A.C. | | |
| M3.0 | H.V.A.C. PLAN MAIN FLOOR | 1:50 |
| M3.1 | H.V.A.C. PLAN SECOND FLOOR | 1:50 |
| SCHEMATICS AND DETAILS | | |
| M4.0 | MECHANICAL SCHEMATICS AND DETAILS | N.T.S. |

| SYMBOL | DESCRIPTION | SYMBOL | DESCRIPTION |
|----------|---|--------|---------------------------------|
| F | FIRE LINE | ● | PENDANT SPRINKLER HEAD |
| FS | FLOW SWITCH | ● DP | DRY PENDANT SPRINKLER HEAD |
| S.V. | SUPERVISED VALVE | ○ | UPRIGHT SPRINKLER HEAD |
| F.S.P. | FIRE STANDPIPE | ◎ | CONCEALED SPRINKLER HEAD |
| ◇ | DELUGE SYSTEM VALVE | ○NF | NON-FREEZE SPRINKLER HEAD |
| ⊥ | WET PIPE VALVE | ○HT | HIGH TEMPERATURE SPRINKLER HEAD |
| ◆ | DRY SYSTEM VALVE | ○* | CHEMICAL SPRINKLER HEAD |
| P | PREACTION SYSTEM VALVE | ◀ | SIDEWALL SPRINKLER HEAD |
| ⊙ | FIRE HYDRANT | ◀W | WINDOW SPRINKLER HEAD |
| FG | FIRE GONG | ◎SR | SEMI RECESSED SPRINKLER HEAD |
| ⊕ | SIAMESE CONNECTION | | |
| SP | WET SPRINKLER LINE | | |
| DSP | DRY SPRINKLER LINE | | |
| F | WET FIRE LINE | | |
| F(DRY) | DRY FIRE LINE | | |
| F.H.C.-x | FIRE HOSE CABINET AND TYPE | | |
| S.V.C.-x | SPRINKLER SHUT-OFF VALVE CABINET AND TYPE | | |
| F.E.-x | FIRE EXTINGUISHER AND TYPE | | |
| F.E.C.-x | FIRE EXTINGUISHER CABINET AND TYPE | | |
| F.R. | FIRE REEL AND TYPE | | |

NOTE: NOT ALL SYMBOLS APPLY, REFER TO FLOOR PLANS AND DRAWINGS

4 FIRE PROTECTION (MSD-012.06)

| SYMBOL | DESCRIPTION | SYMBOL | DESCRIPTION |
|------------|--|--------|------------------------------|
| ⊘ | GATE OR ISOLATION VALVE (REFER TO SPECIFICATION) | — | PIPE GUIDE |
| ⊘ | GLOBE VALVE | — | PIPE SLEEVE |
| ⊘ | BALL VALVE | X | ANCHOR |
| ⊘ | LOCKSHIELD VALVE | ⊥ | STRAINER |
| F.B.V. | FLOW BALANCING VALVE | — | UNION |
| P.I.F.B.V. | PRESSURE INDEPENDENT FLOW BALANCING VALVE | — | FLANGE FITTING |
| ⊥ | PLUG VALVE | ⊥ | ECCENTRIC FITTING |
| P.R.V. | PRESSURE REDUCING VALVE | ⊥ | CONCENTRIC FITTING |
| ⊘ | CHECK VALVE | ⊘ | PRESSURE GAUGE |
| ⊘ | SOLENOID VALVE | T | THERMOMETER |
| S.R.V. | SAFETY RELIEF VALVE | ⊘ | PRESSURE GAUGE COCK ASSEMBLY |
| F.M.S. | FLOW METERING STATION | T.W. | THERMOMETER WELL |
| B.P. | BACKFLOW PREVENTOR | E.J. | EXPANSION JOINT |
| ⊘ | ANGLE VALVE | M.V. | MANUAL AIR VENT |
| ⊘ | BUTTERFLY VALVE | A.V. | AUTOMATIC AIR VENT |
| ⊘ | 2-WAY BUTTERFLY VALVE | A.S. | AIR SEPARATOR |
| ⊘ | TEMPERED MIXING VALVE | S.G. | SIGHT GLASS |
| ⊘ | FLEXIBLE JOINT | ⊘ | PUMP |
| VB | VACUUM BREAKER | ⊘ | P.R.V. C/W SHUT-OFF VALVE |
| B.W.V. | BACK WATER VALVE | ⊘ | P.R.V. STATION |
| | | WHA | WATER HAMMER ARRESTOR |

NOTE: NOT ALL SYMBOLS APPLY, REFER TO FLOOR PLANS AND DRAWINGS

3 VALVES AND APPURTENANCES (MSD-012.05)

| SYMBOL | DESCRIPTION | SYMBOL | DESCRIPTION |
|--|---|-----------------|---|
| FIXTURES: (REFER TO SPECIFICATION SECTION 15450 FOR DETAILS AND ADDITIONAL TYPES NOT LISTED BELOW) | | | |
| W- | FLOOR MOUNTED WATER CLOSET C/W FLUSH VALVE | SH- | SHOWER |
| W- | WALL HUNG WATER CLOSET C/W FLUSH VALVE | DF- | DRINKING FOUNTAIN |
| W- | FLOOR MOUNTED WATER CLOSET C/W FLUSH TANK | E.W. | EMERGENCY EYEWASH |
| U- | URINAL | E.W./S.H. | EMERGENCY EYEWASH/SHOWER |
| L- | COUNTERTOP LAVATORY | E.S. | EMERGENCY SHOWER |
| L- | WALL HUNG LAVATORY | F.T. | FLUSH TANK |
| CS- | SINGLE COMPARTMENT SINK | | |
| MS- | MOP SINK | | |
| CS- | DOUBLE COMPARTMENT SINK | | |
| BT | BATHTUB | | |
| ⊘ | TEMPERED MIXING VALVE ASSEMBLY | H/C H.B. | HOT AND COLD HOSE BIBB |
| ⊘ | TEMPERED MIXING VALVE CABINET | H.B. | HOSE BIBB |
| WM | WATER METER | W.H. (N.F.W.H.) | WALL HYDRANT (OR NON FREEZE WALL HYDRANT) |
| — | DOMESTIC COLD WATER (DOM. COLD WATER) | G.H. (G.F.W.H.) | GROUND HYDRANT (OR NON FREEZE GROUND HYDRANT) |
| — | DOMESTIC HOT WATER (DOM. HOT WATER) | N.F.P.H. | NON FREEZE POST HYDRANT |
| — | DOMESTIC HOT WATER RECIRCULATION (DOM. HOT WATER RECIRC.) | | |
| — | TEMPERED WATER | G | NATURAL GAS |
| — | NON-POTABLE WATER | GV | NATURAL GAS VENT |
| | | RRW | RECLAIM RAINWATER |

NOTE: NOT ALL SYMBOLS APPLY, REFER TO FLOOR PLANS AND DRAWINGS

2 PLUMBING SYMBOLS AND ABBREVIATIONS (MSD-012.03)

| SYMBOL | DESCRIPTION | SYMBOL | DESCRIPTION |
|-----------|--|------------|----------------------------------|
| 6 M-01 | DETAIL NUMBER DRAWING NUMBER | 12 M-01 | SECTION NUMBER DRAWING NUMBER |
| 4 | REVISION NUMBER | ☁ | REVISION BUBBLE |
| R.I.O. | ROUGH IN ONLY | N.O. | NORMALLY OPEN |
| R.I.C. | ROUGH IN AND CONNECT | N.C. | NORMALLY CLOSED |
| A.D. | ACCESS DOOR | S.S. | STAINLESS STEEL |
| — | PIPING SERVICE CONTINUES | ⊥ | ELBOWS |
| — | REFER TO STANDARD DETAIL DRAWINGS FOR ADDITIONAL REQUIREMENTS OF EQUIPMENT NOTED | ⊥ | TEE |
| --- | EQUIPMENT/PIPING/DUCTWORK SHOWN DASHED BELOW | ⊥ | BRANCH OFF BOTTOM OF MAIN |
| --- | PIPING INTERSECTS PIPING BELOW | ⊥ | BRANCH OFF TOP OF MAIN |
| — | PIPE DROP OR FROM BELOW | → | DIRECTION OF FLOW |
| — | PIPE UP OR FROM ABOVE | | |
| — | CAP CONNECTION | | |
| A.D. | SQUARE EXTERIOR AREA DRAIN | M.H. | MAINTENANCE HOLE |
| T.B. | THRUST BLOCK | M.H.C.B. | MAINTENANCE HOLE CATCH BASIN |
| GM | GAS METER | C.B. | CATCH BASIN |
| | | A.D. | CIRCULAR EXTERIOR AREA DRAIN |

NOTE: NOT ALL SYMBOLS APPLY, REFER TO FLOOR PLANS AND DRAWINGS

1 GENERAL AND SITE PLAN SYMBOLS AND ABBREVIATIONS (MSD-012.01)

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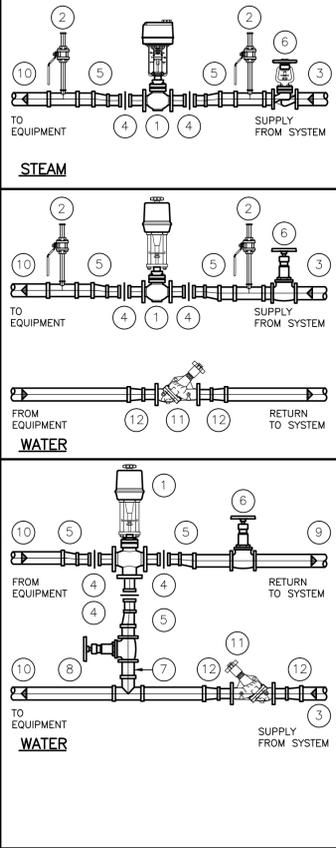
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5
6
7
8

| | |
|----------------|---------------------------------------|
| CLIENT | FEDERAL BUILDING |
| PROJECT | TBU 8 RESOURCE CENTRE INTERIOR FIT-UP |
| CONTENTS | DRAWING LIST AND LEGENDS |
| PROJECT NUMBER | SOA 722198 |
| DATE | 2018/05/22 |
| SHEET NUMBER | M0.0 |

NOTES:

- CONTROL VALVE (ELECTRIC OR PNEUMATIC REFER TO DRAWING SYMBOLS)
- PLUGGED 6mm (1/4 in.) PRESSURE GAUGE CONNECTION WITH VALVE.
- SUPPLY PIPE SIZE AS SHOWN ON PLANS.
- UNION OR FLANGE.
- ECCENTRIC FITTINGS.
- SHUT-OFF VALVE.
- BY-PASS FULL SIZE OF SUPPLY PIPE.
- GLOBE OR FLOW BALANCING VALVE. REFER TO SPECIFICATION FOR DETAILS.
- RETURN PIPE SIZE AS SHOWN ON PLANS.
- PIPING TO EQUIPMENT SAME SIZE AS SUPPLY AND/OR RETURN PIPE.
- FLOW BALANCING VALVE. REFER TO MSD- FOR INSTALLATION DETAILS. SUBSTITUTE SHUT-OFF VALVE WHERE PRESSURE INDEPENDANT CONTROL VALVE USED. VALVE SHALL BE FULL OF RETURN PIPE.
- CONCENTRIC FITTINGS

| DRAWING SYMBOL | |
|-----------------------|------------------------|
| ELECTRIC CV TYPE 1 | PNEUMATIC CV TYPE 1 |
| ELECTRIC CV TYPE 1 | PNEUMATIC CV TYPE 1 |

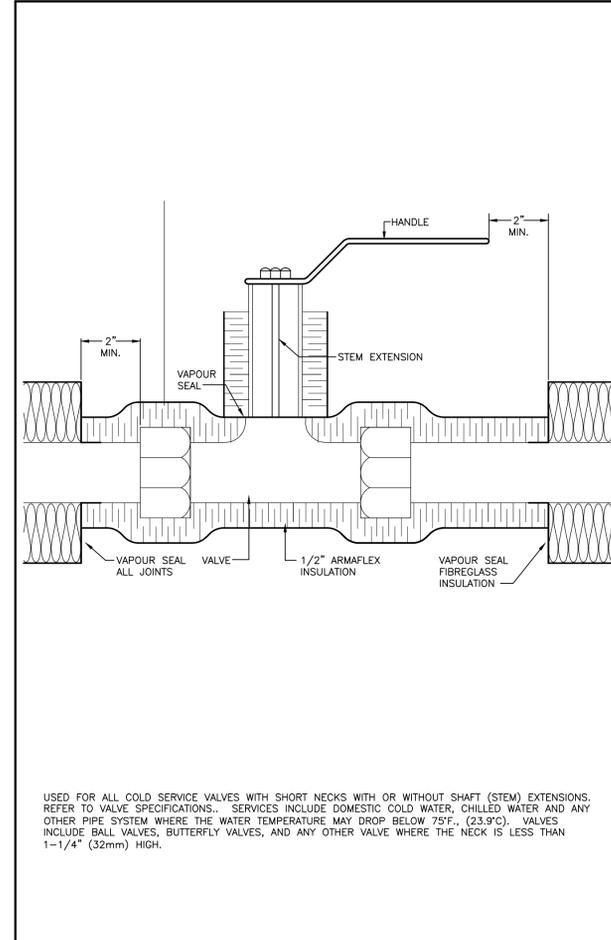


7 CONTROL VALVES TYPE 1 (MSD-705.01)

| SYMBOL | DESCRIPTION | SYMBOL | DESCRIPTION |
|----------|---|--------|---|
| F.D. | FLOOR DRAIN SIZE AS NOTED REFER TO SPECIFICATION FOR TYPES | --- -- | DOMESTIC COLD WATER (DOM. COLD WATER) |
| F.F.D. | FUNNEL FLOOR DRAIN SIZE AS NOTED REFER TO SPECIFICATION FOR TYPES | --- -- | DOMESTIC HOT WATER (DOM. HOT WATER) |
| C.O. | UPTURNED CLEANOUT | --- | DOMESTIC HOT WATER RECIRCULATION (DOM. HOT WATER RECIRC.) |
| C.O. | HORIZONTAL CLEANOUT | --- | TEMPERED DOMESTIC HOT WATER |
| F.D. | FLOOR DRAIN FROM ABOVE WITH TRAP | --- | NATURAL GAS |
| F.F.D. | FUNNEL FLOOR DRAIN FROM ABOVE WITH TRAP | --- | NATURAL GAS VENT |
| W-C | WATER CLOSET AS NOTED REFER TO SPECIFICATION FOR TYPES | --- | VENT |
| CS | SINGLE COMPARTMENT KITCHEN SINK | SAN | SANITARY ABOVE GRADE OR FLOOR |
| CS | MOP SINK | SAN(B) | SANITARY BELOW GRADE OR FLOOR |
| CS | DOUBLE COMPARTMENT SINK | --- | GATE OR ISOLATION VALVE (REFER TO SPECIFICATION) |
| DF | DRINKING FOUNTAIN | --- | GLOBE VALVE |
| U | URINAL | --- | BALL VALVE |
| L | WALL HUNG LAVATORY | --- | PENDANT SPRINKLER HEAD |
| SP | WET SPRINKLER | --- | DRY PENDANT SPRINKLER HEAD |
| DSP | DRY SPRINKLER | --- | UPRIGHT SPRINKLER HEAD |
| F.H.C.-x | FIRE HOSE CABINET AND TYPE | --- | CONCEALED SPRINKLER HEAD |
| S.V.C.-x | SPRINKLER SHUT-OFF VALVE CABINET AND TYPE | --- | NON-FREEZE SPRINKLER HEAD |
| F.E.-x | FIRE EXTINGUISHER AND TYPE | --- | HIGH TEMPERATURE SPRINKLER HEAD |
| F.E.C.-x | FIRE EXTINGUISHER CABINET AND TYPE | --- | CHEMICAL SPRINKLER HEAD |
| F.R. | FIRE REEL | --- | SIDEWALL SPRINKLER HEAD |
| WM | WATER METER | --- | WINDOW SPRINKLER HEAD |
| BFP | BACK FLOW PREVENTOR | --- | |

NOTE: NOT ALL SYMBOLS APPLY, REFER TO FLOOR PLANS AND DRAWINGS

5 GENERAL SYMBOLS AND ABBREVIATIONS (MSD-012.13)



6 INSULATION AT COLD VALVES WITH SHORT NECKS (MSD-250.03)

| SYMBOL | DESCRIPTION | SYMBOL | DESCRIPTION |
|--------|--|--------|-----------------------------|
| 200W | POWER REQUIREMENT FOR ELECTRIC TRACING | LPS | LOW PRESSURE SELECTOR |
| --- | ELECTRIC PIPE DEVICE FOR SINGLE LINE PIPES | HPS | HIGH PRESSURE SELECTOR |
| --- | ELECTRIC PIPE DEVICE FOR DOUBLE LINE PIPES | E.P. | ELECTRO-PNEUMATIC |
| M.C.C. | MOTOR CONTROL CENTRE | P.E. | PNEUMATIC-ELECTRIC |
| D.S. | DISCONNECT SWITCH | C | CONTROLLER |
| --- | SWITCH (MANUAL STARTER) | TS | TEMPERATURE SENSOR |
| H.O.A. | HAND-OFF-AUTO | HS | HUMIDITY SENSOR |
| FZ | LOW TEMPERATURE THERMOSTAT | BAS | POWER OUTLET FOR B.A.S. |
| FS | HIGH TEMPERATURE THERMOSTAT | --- | AIR FLOW MONITORING STATION |
| T | ELECTRIC THERMOSTAT/SENSOR | S | STATIC |
| --- | PNEUMATIC THERMOSTAT | VSD | VARIABLE SPEED DRIVE |
| BAS | BASE BUILDING AUTOMATION SYSTEM | CO | CARBON MONOXIDE SENSOR |
| FS | FLOW SWITCH | RS | REFRIGERANT SENSOR |
| H | HUMIDISTAT (PNEUMATIC) | CO2 | CARBON DIOXIDE SENSOR |
| H | HUMIDISTAT (ELECTRIC) | NO2 | NITROGEN OXIDE SENSOR |
| S | SPEED SWITCH | A.F.S. | AIR FLOW STATION |
| --- | FLOW MONITORING WATER | PS | PRESSURE SENSOR |

NOTE: NOT ALL SYMBOLS APPLY, REFER TO FLOOR PLANS AND DRAWINGS

3 ELECTRICAL AND CONTROLS SYMBOLS AND ABBREVIATIONS (MSD-012.10)

| SYMBOL | DESCRIPTION | SYMBOL | DESCRIPTION |
|--------|---------------------------|--------|--|
| 6 | DETAIL NUMBER | 12 | SECTION NUMBER |
| M-01 | DRAWING NUMBER | M-01 | DRAWING NUMBER |
| 4 | REVISION NUMBER | --- | REVISION BUBBLE |
| --- | ELBOWS | --- | PIPING SERVICE CONTINUES |
| --- | TEE | --- | REFER TO STANDARD DETAIL DRAWINGS FOR ADDITIONAL REQUIREMENTS OF EQUIPMENT NOTED |
| --- | BRANCH OFF BOTTOM OF MAIN | (CFM) | AIR QUANTITY C.F.M. (L/s) |
| --- | BRANCH OFF TOP OF MAIN | | |
| --- | DIRECTION OF FLOW | | |

NOTE: EXISTING EQUIPMENT, PIPING, VALVES, DUCTWORK SHOWN LIGHT TO REMAIN

| | | | |
|-----|--|----|---|
| --- | EXISTING DUCT, FLEX. DUCT AND AIR SUPPLY TO REMAIN | EX | EXISTING CONCEALED SPRINKLER HEAD & PIPING TO REMAIN |
| --- | EXISTING ELECTRIC/PNEUMATIC THERMOSTAT/TEMPERATURE SENSOR AND SPEED CONTROL SWITCH TO REMAIN | EX | EXISTING PENDANT SPRINKLER HEAD & PIPING TO REMAIN |
| --- | EXISTING UPRIGHT SPRINKLER HEAD & PIPING TO REMAIN | EX | EXISTING SIDEWALL OR WINDOW SPRINKLER HEAD & PIPING TO REMAIN |

NOTE: EXISTING EQUIPMENT SHOWN HATCHED TO BE REMOVED AND/OR RELOCATED.

| | | | |
|-----|--|----|--|
| --- | EXISTING DUCT, FLEX. DUCT AND AIR SUPPLY TO BE REMOVED | EX | EXISTING CONCEALED SPRINKLER HEAD TO BE REMOVED/RELOCATED |
| --- | EXISTING ELECTRIC/PNEUMATIC THERMOSTAT/TEMPERATURE SENSOR AND SPEED CONTROL SWITCH TO BE REMOVED/RELOCATED | EX | EXISTING PENDANT SPRINKLER HEAD TO BE REMOVED/RELOCATED |
| --- | EXISTING UPRIGHT SPRINKLER HEAD TO BE REMOVED/RELOCATED | EX | EXISTING SIDEWALL OR WINDOW SPRINKLER HEAD TO BE REMOVED/RELOCATED |

NOTE: NOT ALL SYMBOLS APPLY, REFER TO FLOOR PLANS AND DRAWINGS

4 GENERAL SYMBOLS AND ABBREVIATIONS (MSD-012.12)

| SYMBOL | DESCRIPTION | SYMBOL | DESCRIPTION |
|---------|-----------------------------------|--------|-----------------------------|
| F/D | FIRE DAMPER | SM/D | SMOKE DAMPER |
| M.O.D. | MOTOR OPERATED DAMPER | P.S.D. | POSITIVE SEAL DAMPER |
| M.D. | MANUAL DAMPER | B.D.D. | GRAVITY OR BACKDRAFT DAMPER |
| B.D. | BALANCING DAMPER | SP/D | SPLITTER DAMPER |
| C.S.F/D | COMBINATION SMOKE AND FIRE DAMPER | | |
| --- | VOLUME EXTRACTOR | | |

V.A.V. AND F.P.V.A.V. TAG

V.A.V. BOX TYPE

MIN. PRIMARY FLOW FAN POWERED V.A.V. BOX TYPE

MAX. PRIMARY FLOW (L/s)

SECONDARY FLOW (L/s)

REHEAT COIL CAPACITY (KW)

| | |
|--|--|
| V.A.V. BOX (VARIABLE AIR VOLUME) | FAN POWERED BOX C/W RETURN AIR SILENCER OR ACOUSTICALLY LINED RETURN AIR |
| V.A.V. BOX WITH ATTENUATOR | INDUCTION V.A.V. BOX |
| V.A.V. BOX WITH REHEAT COIL | PNEUMATIC AIR VALVE (LAB) |
| V.A.V. BOX WITH REHEAT COIL AND ATTENUATOR | |

HEATING ELEMENT TAG

A 1200W

1944

HEATING CAPACITY

ACTIVE ELEMENT LENGTH

ENCLOSURE TYPE

| | |
|---------------------------------|---|
| REHEAT COIL IN DUCT (RHC) WATER | REHEAT COIL IN DUCT (ERHC) ELECTRIC |
| HORIZONTAL UNIT HEATER | RADIATION HEATING RISER NUMBERS (S=SUPPLY AND R=RETURN) |
| DOWN BLAST UNIT HEATER | WALL FIN ELEMENT IN CONTINUOUS ENCLOSURE |
| RADIANT HEATING PANEL | |

NOTE: NOT ALL SYMBOLS APPLY, REFER TO FLOOR PLANS AND DRAWINGS

1 AIR HANDLING SYMBOLS (MSD-012.08)

| SYMBOL | DESCRIPTION | SYMBOL | DESCRIPTION |
|--------|--|----------|--|
| --- | SUPPLY DUCT UP OR FROM ABOVE | --- | ACOUSTICALLY LINED TRANSFER AIR DUCT |
| --- | SUPPLY DUCT DOWN OR FROM BELOW | --- | SILENCER |
| --- | RETURN OR EXHAUST DUCT UP OR FROM ABOVE | --- | CROSSTALK SILENCER |
| --- | RETURN OR EXHAUST DUCT DOWN OR FROM BELOW | --- | DUCT WITH MINIMUM CLEARANCE FIRE RATED ENCLOSURE |
| --- | ROUND DUCT UP OR FROM ABOVE | F/D | DUCT WITH SLEEVE, INSULATION AND DAMPER |
| --- | ROUND DUCT DOWN OR FROM BELOW | CAP | CAPPED CONNECTION |
| --- | ACOUSTIC LINED DUCT | RISE UP | RISE IN DUCT |
| --- | FLEXIBLE CONNECTION | SLOPE DN | DROP IN DUCT |
| --- | SQUARE ELBOW DUCT WITH TURNING VANE | S.B. | SOUND Baffle |
| --- | RADIUS ELBOW WITH TURNING VANES | --- | PROPELLER FAN |
| --- | AXIAL FAN/INLINE FAN MIXED FLOW OR CENTRIFUG | | |
| --- | CENTRIFUGAL FAN | | |

DIFFUSER GRILLE OR REGISTER TYPE

IMPERIAL: CFM [INS.]

METRIC: L/s [mm]

NECK OR FACE SIZE (MM)

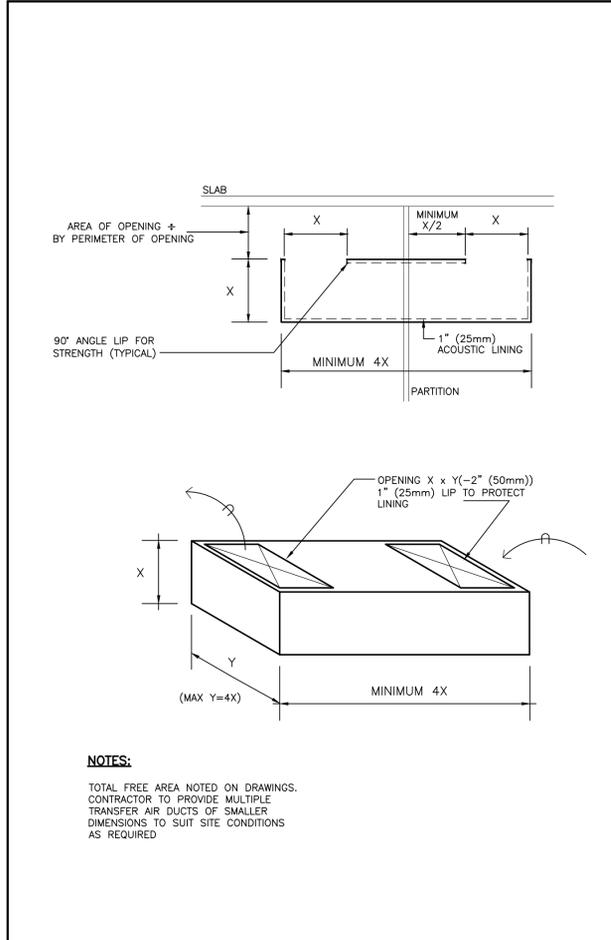
AIR FLOW (L/s)

NECK SIZE AND LINEAR DIFFUSER LENGTH (MM)

| | | | |
|-----|--|-----|--|
| --- | ROUND SUPPLY DIFFUSER | --- | SUPPLY AIR DIFFUSER C/W FLEXIBLE DUCT |
| --- | DUCTED RETURN OR EXHAUST REGISTER OR GRILLE | --- | LIGHT TROFFER DIFFUSER TOP INLET C/W FLEXIBLE DUCT |
| --- | SQUARE OR RECTANGULAR DIFFUSER | --- | LIGHT TROFFER DIFFUSER SIDE INLET C/W FLEXIBLE DUCT |
| --- | NON DUCTED RETURN OR EXHAUST GRILLE | --- | DUCT MOUNTED SUPPLY OR RETURN GRILLE |
| --- | NON DUCTED ROUND RETURN OR EXHAUST GRILLE | --- | LINEAR SUPPLY OR RETURN GRILLE |
| --- | SQUARE PLAQUE DIFFUSER | --- | SPIN-IN CONNECTION C/W BALANCING DAMPER AND FLEX DUCT |
| --- | DIFFUSERS WITH BLANK-OFF PORTION (QTY SHOWN) | --- | SPIN-IN CONNECTION C/W BALANCING DAMPER AND RIGID DUCT |

NOTE: NOT ALL SYMBOLS APPLY, REFER TO FLOOR PLANS AND DRAWINGS

2 AIR HANDLING SYMBOLS (MSD-012.09)



8 ACOUSTICALLY LINED TRANSFER DUCT (MSD-840.12)

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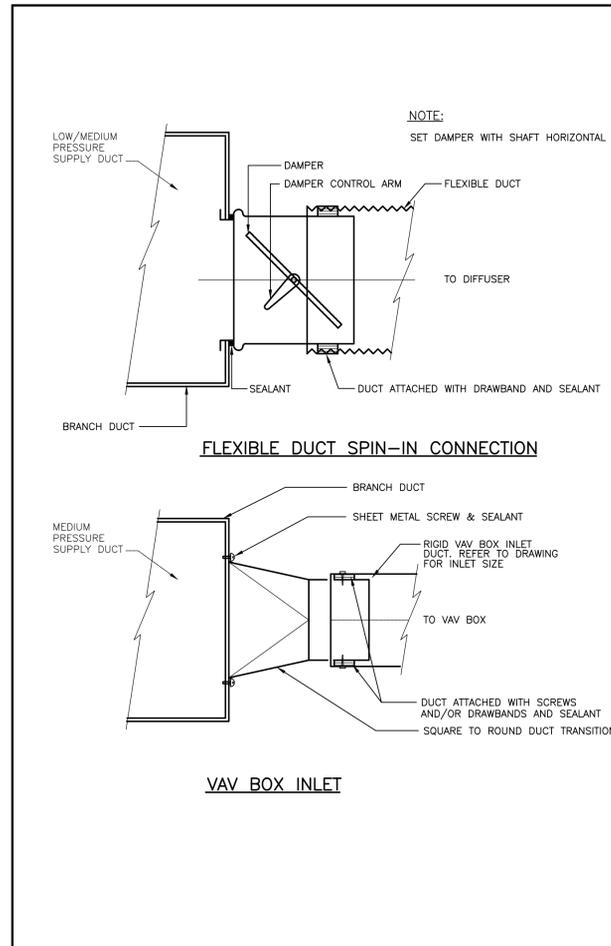
ISSUES / REVISIONS

- 17/10/05 ISSUED FOR SCHEMATIC DESIGN
- 17/12/12 ISSUED FOR 60% CONSTRUCTION DOCUMENTS
- 18/02/01 ISSUED FOR 90% CONSTRUCTION DOCUMENTS
- 18/05/22 ISSUED FOR CONSTRUCTION

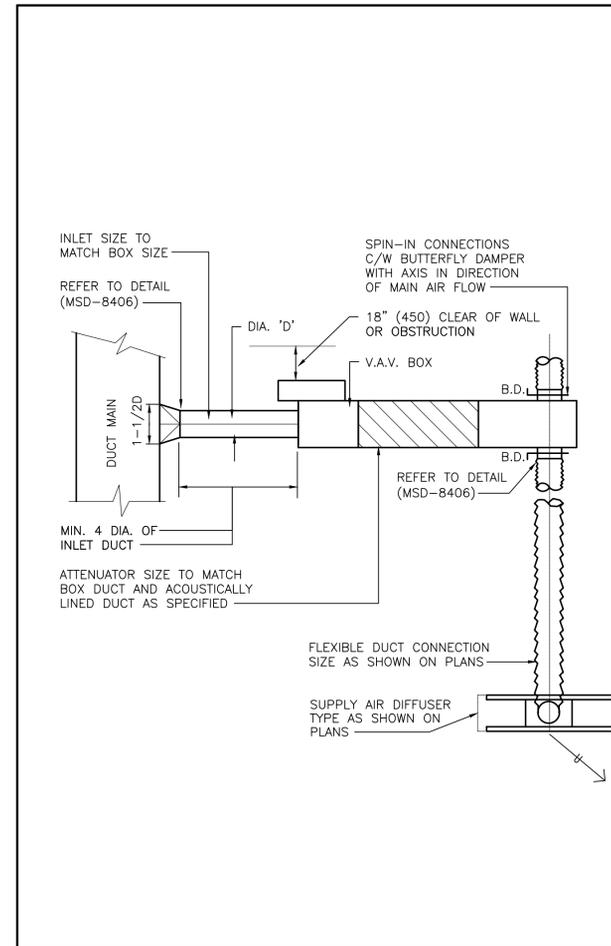
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|----------------|---------------------------------------|
| CLIENT | FEDERAL BUILDING |
| PROJECT | TBU 8 RESOURCE CENTRE INTERIOR FIT-UP |
| CONTENTS | STANDARD DETAILS |
| PROJECT NUMBER | SOA 722198 |
| DATE | 2018/05/22 |
| SHEET NUMBER | MO.1 |



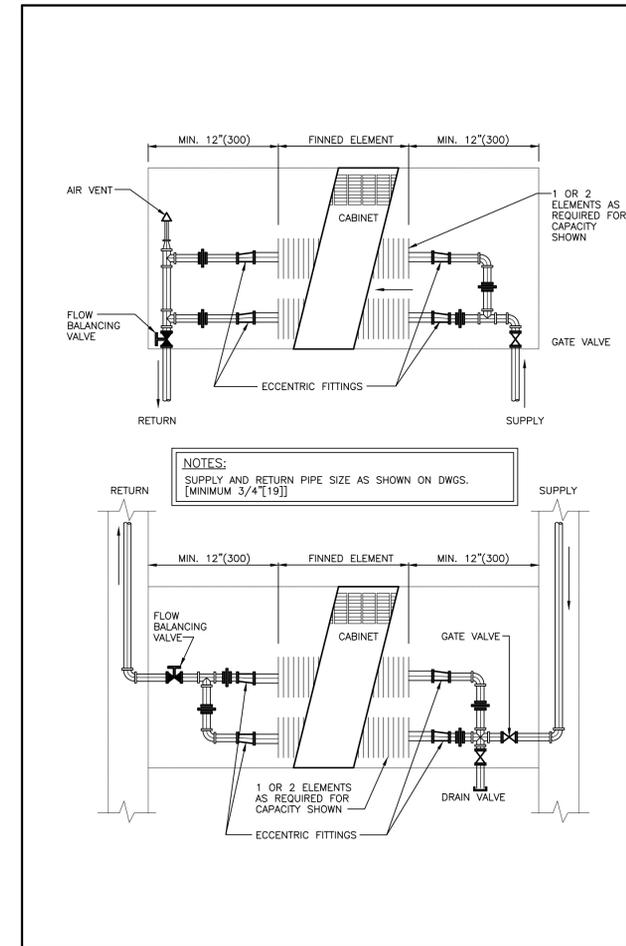
7 MO.2 NOT IN USE



5 MO.2 FLEXIBLE DUCT CONNECTIONS (MSD-840.06)



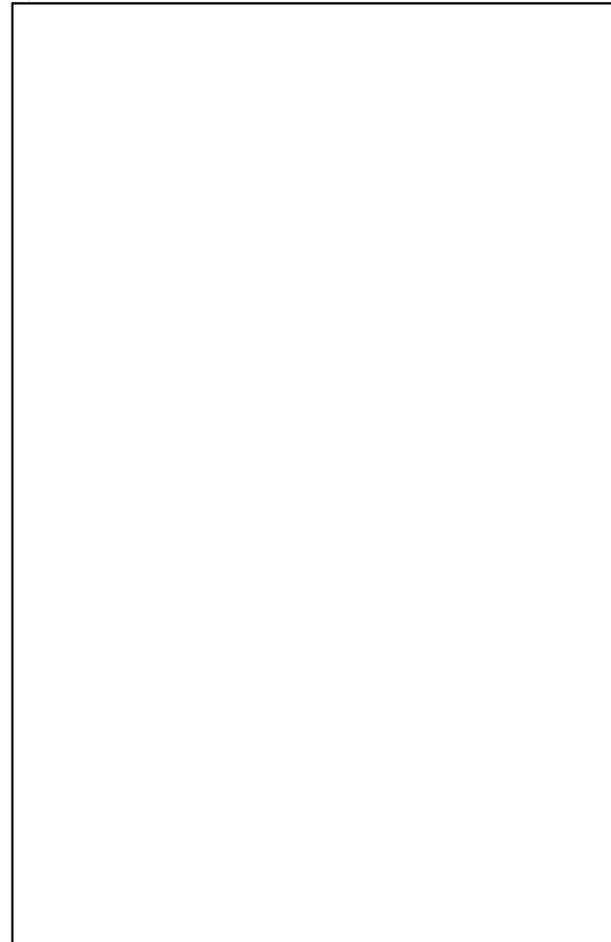
3 MO.2 TYPICAL V.A.V. BOX INSTALLATION (MSD-840.04)



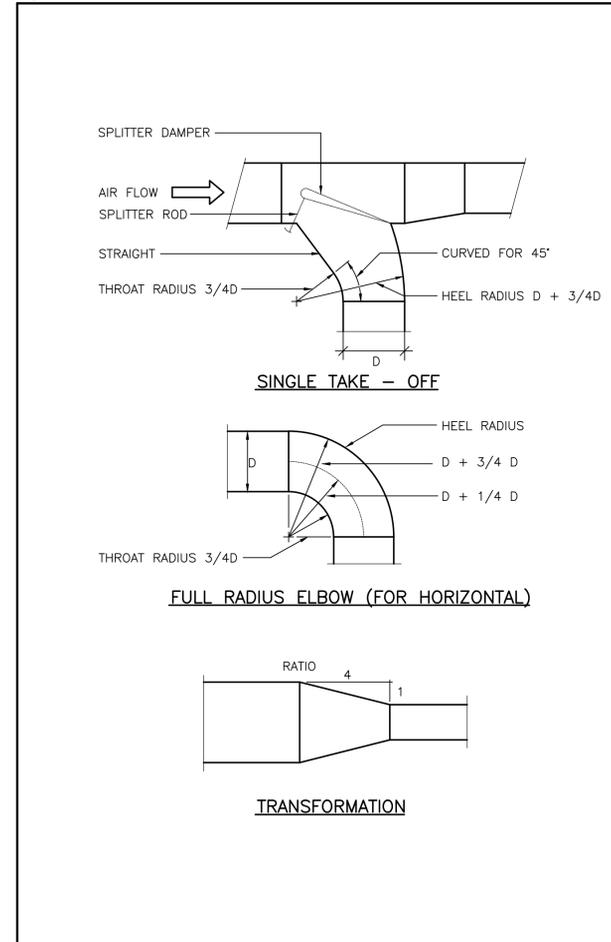
1 MO.2 CONVECTORS (MSD-753.01)



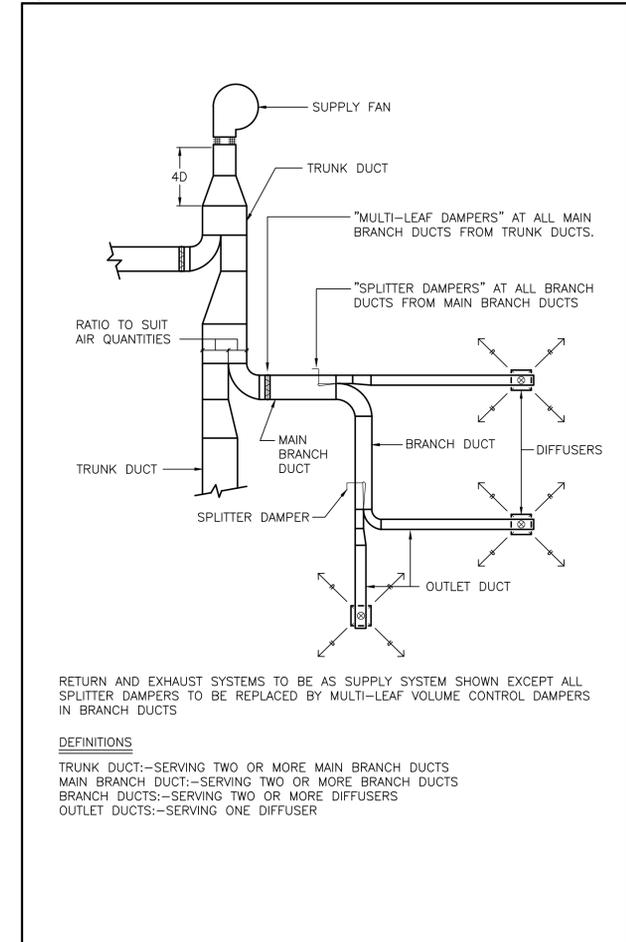
8 MO.2 NOT IN USE



6 MO.2 NOT IN USE



4 MO.2 DUCT DETAILS (MSD-840.05)

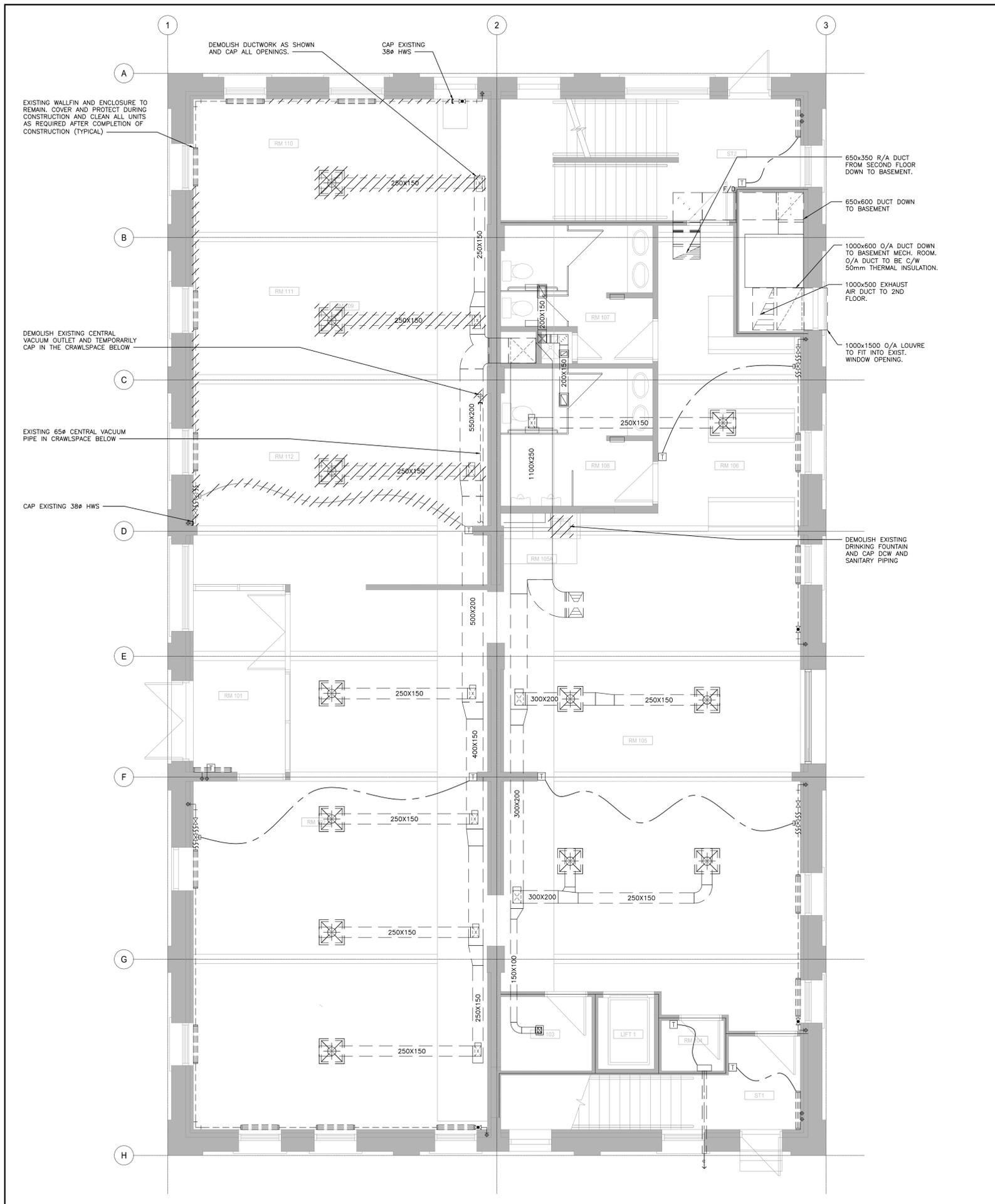


2 MO.2 BALANCING DAMPERS (MSD-840.03)

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 - 18/05/22 ISSUED FOR CONSTRUCTION
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| CLIENT | FEDERAL BUILDING |
| PROJECT | TBU 8 RESOURCE CENTRE INTERIOR FIT-UP |
| CONTENTS | STANDARD DETAILS |
| PROJECT NUMBER | SOA 7222198 |
| DATE | 2018/05/22 |
| SHEET NUMBER | M0.2 |



1
M10
DEMOLITION H.V.A.C. PLAN - MAIN FLOOR
1:50

GENERAL NOTES

- DO NOT SCALE DRAWINGS. THE LOCATIONS OF ALL ITEMS SHOWN ON THE DRAWINGS OR SPECIFIED THAT ARE NOT DEFINITELY FIXED BY DIMENSIONS ARE APPROXIMATE ONLY. THE EXACT LOCATIONS NECESSARY TO SECURE THE BEST CONDITIONS AND RESULTS MUST BE DETERMINED BY THE SITE CONDITIONS. REVIEW ALL REVISIONS WITH THE CONSULTANT.
- FLOOR PLANS SHALL BE READ IN CONJUNCTION WITH SCHEMATICS. INFORMATION SHOWN ON FLOOR PLANS SHALL BE ASSUMED TO BE APPLICABLE TO THE RELATED SYSTEM SCHEMATIC AND VICE-VERSA TO PROVIDE A COMPLETE AND OPERATIONAL SYSTEM.
- VERIFY STRUCTURAL INTEGRITY OF ALL TEMPORARY AND PERMANENT OPENINGS. ADDITIONAL FRAMING TO ENSURE STRUCTURAL INTEGRITY SHALL BE INCLUDED UNDER THIS CONTRACT.

DEMOLITION NOTES

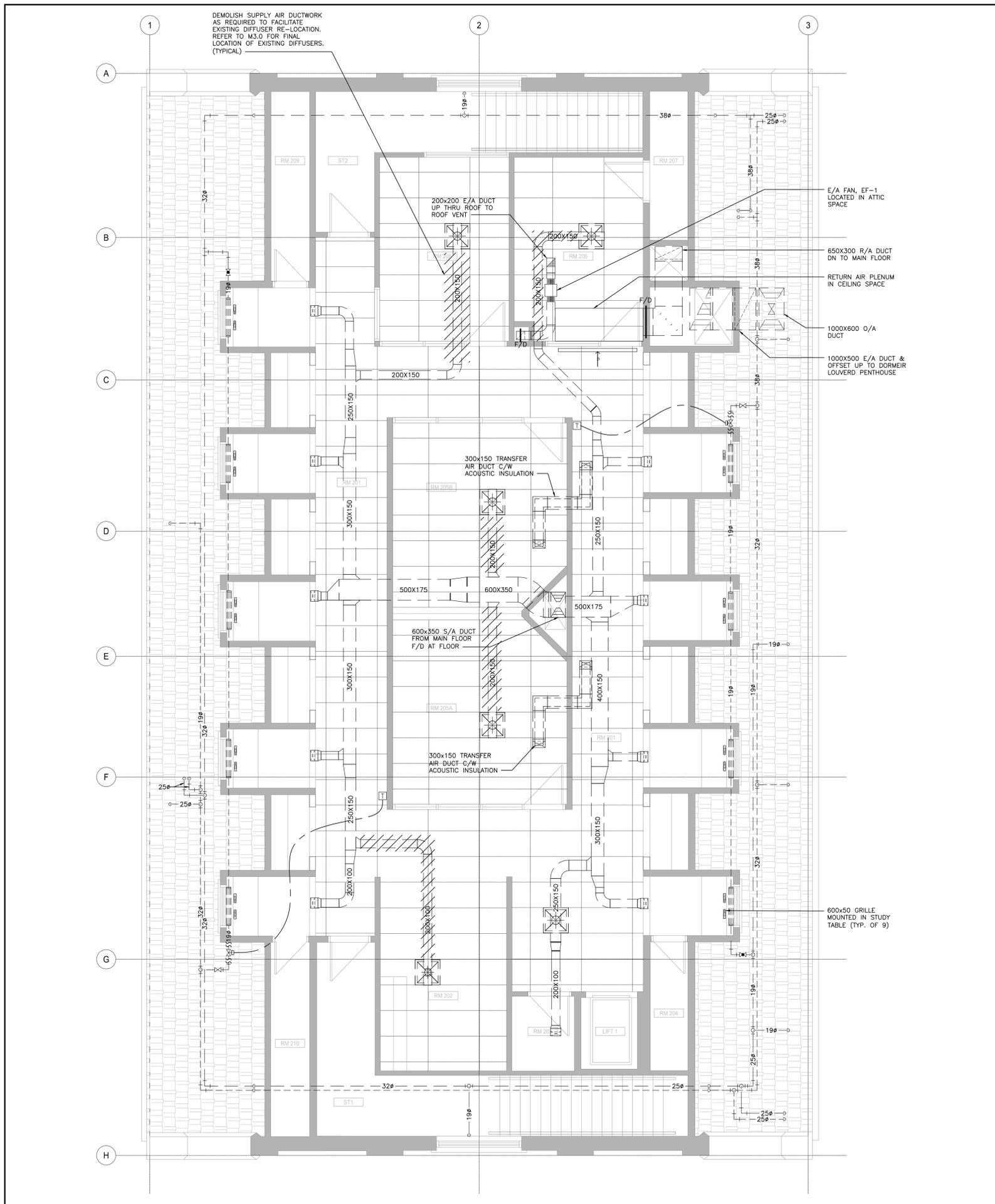
- CONTRACTOR TO VALVE AND CAP ALL ACTIVE SERVICES SHOWN TO BE PARTIALLY DEMOLISHED
- SALVAGE ALL DIFFUSERS SHOWN TO BE REMOVED.
- PRIOR TO DEMOLITION, CONTRACTOR IS TO PROVIDE AIR BALANCING REPORT AND DEMONSTRATE SYSTEM OPERATION TO OWNER, CONSULTANTS AND CONTRACTORS FOR REVIEW OF PERFORMANCE AND ACOUSTIC DEFICIENCY.
- MAINTAIN OPERATION OF ALL EXISTING FIRE SAFETY EQUIPMENT, INCLUDING ALL SPRINKLERS, FIRE HOSES AND FIRE EXTINGUISHERS. REQUIREMENT TO MODIFY THE EXISTING SPRINKLER HEADS TO SUIT OPEN CEILING (I.E. UPRIGHT HEADS) TO PROVIDE TEMPORARY SPRINKLER COVERAGE DURING VACANT/CONSTRUCTION PERIOD SHALL BE SUBJECT TO THE REQUIREMENT OF THE LOCAL AUTHORITIES HAVING JURISDICTION.

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ISSUES / REVISIONS

| | | |
|---|----------|---------------------------------------|
| 1 | 17/10/05 | ISSUED FOR SCHEMATIC DESIGN |
| 2 | 17/12/12 | ISSUED FOR 60% CONSTRUCTION DOCUMENTS |
| 3 | 18/02/01 | ISSUED FOR 90% CONSTRUCTION DOCUMENTS |
| 4 | 18/05/22 | ISSUED FOR CONSTRUCTION |
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|----------------|---------------------------------------|
| CLIENT | FEDERAL BUILDING |
| PROJECT | TBU 8 RESOURCE CENTRE INTERIOR FIT-UP |
| CONTENTS | HVAC DEMOLITION PLAN MAIN FLOOR |
| PROJECT NUMBER | SOA 7222198 |
| DATE | 2018/05/22 |
| SHEET NUMBER | M1.0 |



1. DEMOLITION H.V.A.C. PLAN - SECOND FLOOR
1:50

GENERAL NOTES

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- VERIFY STRUCTURAL INTEGRITY OF ALL TEMPORARY AND PERMANENT OPENINGS. ADDITIONAL FRAMING TO ENSURE STRUCTURAL INTEGRITY SHALL BE INCLUDED UNDER THIS CONTRACT.

DEMOLITION NOTES

- CONTRACTOR TO VALVE AND CAP ALL ACTIVE SERVICES SHOWN TO BE PARTIALLY DEMOLISHED
- SALVAGE ALL DIFFUSERS SHOWN TO BE REMOVED.
- PRIOR TO DEMOLITION, CONTRACTOR IS TO PROVIDE AIR BALANCING REPORT AND DEMONSTRATE SYSTEM OPERATION TO OWNER, CONSULTANTS AND CONTRACTORS FOR REVIEW OF PERFORMANCE AND ACOUSTIC DEFICIENCY.
- MAINTAIN OPERATION OF ALL EXISTING FIRE SAFETY EQUIPMENT, INCLUDING ALL SPRINKLERS, FIRE HOSES AND FIRE EXTINGUISHERS. REQUIREMENT TO MODIFY THE EXISTING SPRINKLER HEADS TO SUIT OPEN CEILING (I.E. UPRIGHT HEADS) TO PROVIDE TEMPORARY SPRINKLER COVERAGE DURING VACANT/CONSTRUCTION PERIOD SHALL BE SUBJECT TO THE REQUIREMENT OF THE LOCAL AUTHORITIES HAVING JURISDICTION.

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ISSUES / REVISIONS

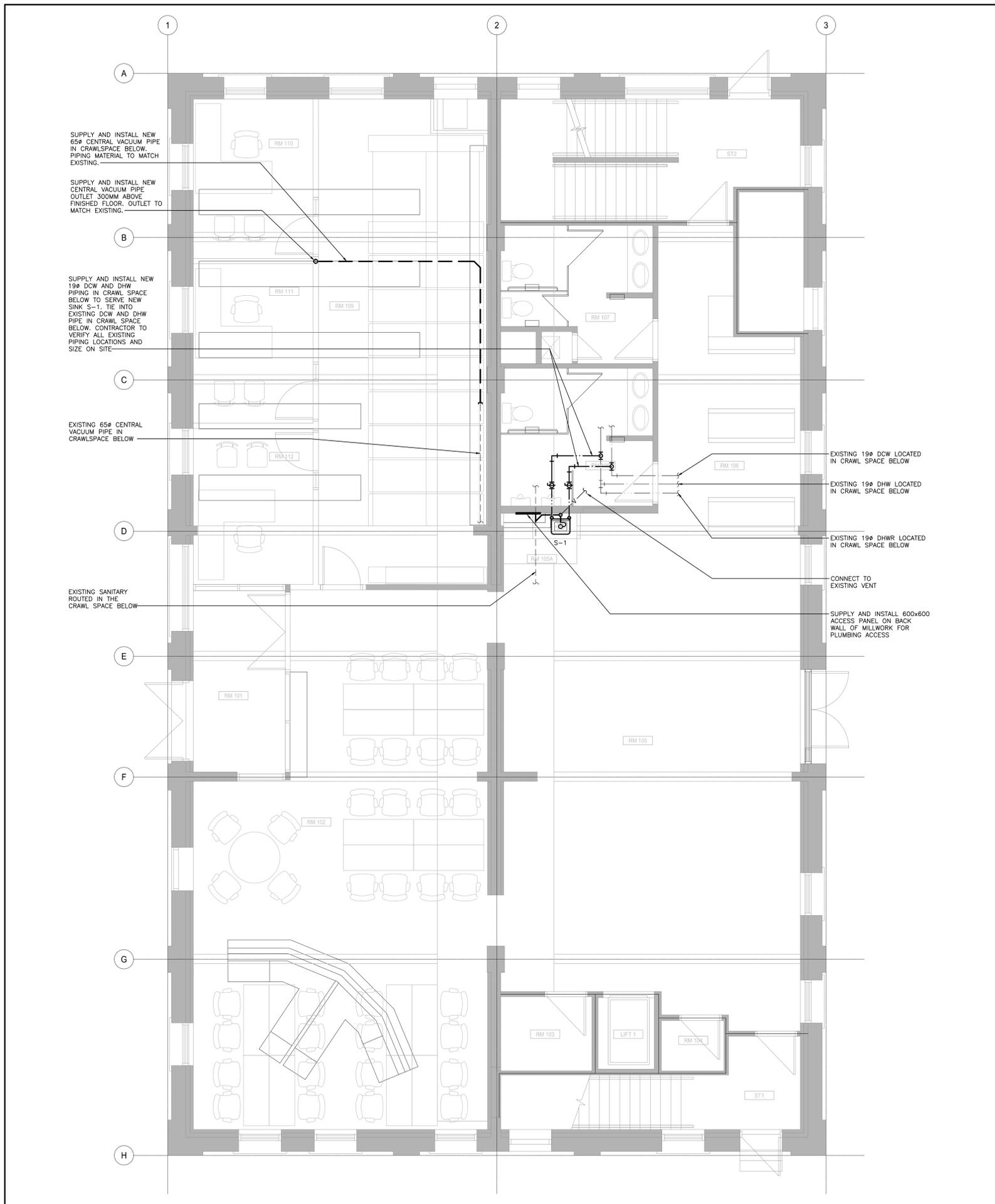
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| 1 | 17/10/05 | ISSUED FOR SCHEMATIC DESIGN |
| 2 | 17/12/12 | ISSUED FOR 65% CONSTRUCTION DOCUMENTS |
| 3 | 18/02/01 | ISSUED FOR 95% CONSTRUCTION DOCUMENTS |
| 4 | 18/05/22 | ISSUED FOR CONSTRUCTION |
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CLIENT: FEDERAL BUILDING

PROJECT: TBU 8 RESOURCE CENTRE INTERIOR FIT-UP

CONTENTS: HVAC DEMOLITION PLAN SECOND FLOOR

| | |
|------------------------------|-----------------------------|
| PROJECT NUMBER SOA 722198 | SHEET NUMBER M1.1 |
| DATE 2018/05/22 | |



GENERAL NOTES

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- VERIFY STRUCTURAL INTEGRITY OF ALL TEMPORARY AND PERMANENT OPENINGS. ADDITIONAL FRAMING TO ENSURE STRUCTURAL INTEGRITY SHALL BE INCLUDED UNDER THIS CONTRACT.

PLUMBING AND DRAINAGE NOTES

- ALL DOMESTIC COLD WATER AND DOMESTIC HOT WATER PIPES SHALL BE MINIMUM 19MM (3/4 IN.) UNLESS INDICATED OTHERWISE.
- ALL PIPING SHALL BE OVERHEAD, TIGHT TO UNDERSIDE OF THE STRUCTURE WITH SUFFICIENT ROOM FOR INSULATION UNLESS INDICATED OTHERWISE. RUN PIPING WITHIN STRUCTURAL STEEL STRATA WHERE PRACTICAL AND IN EXPOSED OFFICE AREAS.

1 PLUMBING PLAN - MAIN FLOOR
1:50

SUBCONSULTANT

Smith + Andersen
2031 Portage Avenue 2nd Floor Winnipeg Manitoba R3J 0K6
204 885 6666 smithandandersen.com



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ISSUES / REVISIONS

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| 1 | 17/10/05 | ISSUED FOR SCHEMATIC DESIGN |
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| 3 | 18/02/01 | ISSUED FOR 99% CONSTRUCTION DOCUMENTS |
| 4 | 18/05/22 | ISSUED FOR CONSTRUCTION |
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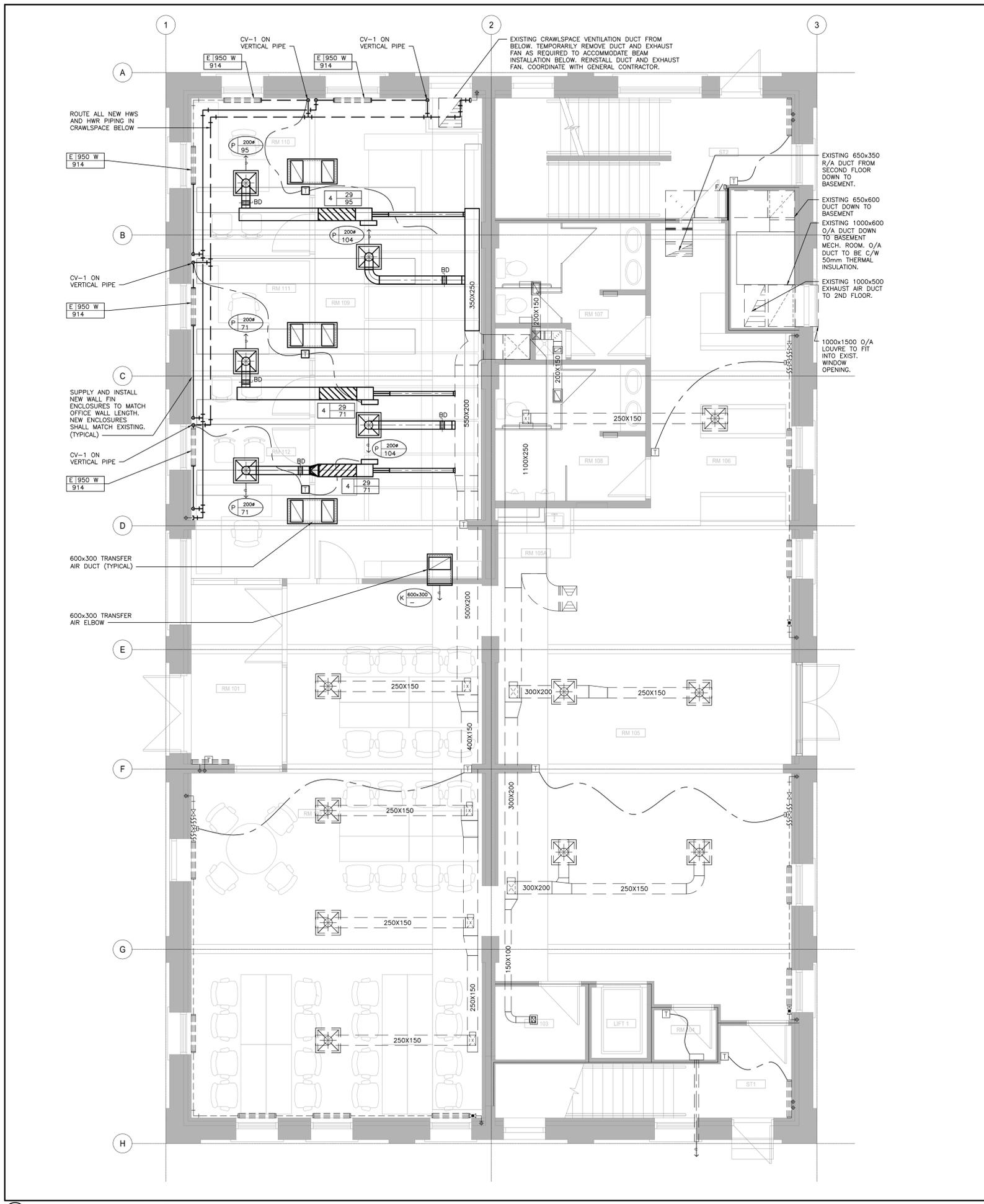
CLIENT **FEDERAL BUILDING**

PROJECT **TBU 8 RESOURCE CENTRE INTERIOR FIT-UP**

CONTENTS **PLUMBING PLAN MAIN FLOOR**

| | |
|-------------------------------|-----------------------------|
| PROJECT NUMBER SOA 7222198 | SHEET NUMBER M2.0 |
| DATE 2018/05/22 | |

- GENERAL NOTES
- DO NOT SCALE DRAWINGS. THE LOCATIONS OF ALL ITEMS SHOWN ON THE DRAWINGS OR SPECIFIED THAT ARE NOT DEFINITELY FIXED BY DIMENSIONS ARE APPROXIMATE ONLY. THE EXACT LOCATIONS NECESSARY TO SECURE THE BEST CONDITIONS AND RESULTS MUST BE DETERMINED BY THE SITE CONDITIONS. REVIEW ALL REVISIONS WITH THE CONSULTANT.
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 - VERIFY STRUCTURAL INTEGRITY OF ALL TEMPORARY AND PERMANENT OPENINGS. ADDITIONAL FRAMING TO ENSURE STRUCTURAL INTEGRITY SHALL BE INCLUDED UNDER THIS CONTRACT.
- HVAC NOTES
- ALL HWS AND HWR BRANCH PIPES SHALL BE MINIMUM 19MM (3/4 IN.) UNLESS INDICATED OTHERWISE.
 - ALL CONTROL VALVES FOR PERIMETER TERMINAL UNITS AND RADIATION ARE TYPE-1 UNLESS INDICATED OTHERWISE.
 - ALL TRANSFER AIR DUCTS SHALL BE 600X300X1200 (WXHXL) ACOUSTICALLY LINED ELBOW OR STRAIGHT DUCTS AS SHOWN OR UNLESS INDICATED OTHERWISE. TRANSFER AIR DUCTS SHALL NOT BE USED IN LIEU OF SILENCERS.
 - ALL DUCTWORK DOWNSTREAM OF VAV BOXES AND FAN POWERED BOXES SHALL BE EQUAL TO THE BOX OUTLET SIZE (MINIMUM) OR LARGER AS INDICATED. WHERE OUTLET SIZES ARE ODD SIZES, THE DUCT SIZE SHALL BE ROUNDED UP TO THE NEAREST EVEN SIZE (I.E. 318MM (12.5 IN.) OR 330MM (13 IN.) SHALL BE 356MM (14 IN.)). PROVIDE TRANSITION DUCTS AS REQUIRED.
 - REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR EXACT LOCATIONS OF GRILLES AND DIFFUSERS.
 - TEMPERATURE SENSORS ARE LOCATED TO AID IN PRICING ONLY AND ALL REQUIRED SENSORS MAY NOT BE SHOWN (REFER TO SPECIFICATIONS). COORDINATE FINAL LOCATION WITH THE ARCHITECT WITHIN 1000MM (40 IN.) OF LOCATION SHOWN. ALL RELOCATIONS OUTSIDE OF THIS RANGE SHALL BE REVIEWED WITH THE CONSULTANT.
 - TEMPERATURE SENSORS SHALL BE NOMINALLY 1200MM (48 IN.) ABOVE THE FINISHED FLOOR UNLESS INDICATED OTHERWISE.
 - DIFFUSER DUCT RUN-OUTS SHALL BE THE SAME SIZE AS THE DIFFUSER INLETS UNLESS INDICATED OTHERWISE.
 - AIR FLOW RATES SHALL BE BALANCED EQUALLY BETWEEN ALL INTERIOR DIFFUSERS BASED ON THE MAXIMUM AIR FLOW RATE SHOWN FOR THE ASSOCIATED VAV BOX.
 - ALL PIPING SHALL BE OVERHEAD, TIGHT TO UNDERSIDE OF THE STRUCTURE WITH SUFFICIENT ROOM FOR INSULATION UNLESS INDICATED OTHERWISE.
 - CONTRACTOR TO VERIFY STRUCTURAL INTEGRITY OF TEMPORARY AND PERMANENT OPENINGS. ADDITIONAL FRAMING TO ENSURE STRUCTURAL INTEGRITY SHALL BE INCLUDED UNDER THIS CONTRACT.



1 H.V.A.C. PLAN - MAIN FLOOR

SUBCONSULTANT



Smith + Andersen
2031 Portage Avenue 2nd Floor Winnipeg Manitoba R3J 0K6
204 885 6668 smithandandersen.com



Association of Professional Engineers & Geoscientists of Saskatchewan
CERTIFICATE OF AUTHORIZATION
Smith and Andersen Consulting Engineering
Number 21114
Permission to Consult held by
Discipline: Mechanical St. Reg. No. 33225

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| ISSUES / REVISIONS |
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| 1 17/10/05 ISSUED FOR SCHEMATIC DESIGN |
| 2 17/12/12 ISSUED FOR 66% CONSTRUCTION DOCUMENTS |
| 3 18/02/01 ISSUED FOR 99% CONSTRUCTION DOCUMENTS |
| 4 18/05/22 ISSUED FOR CONSTRUCTION |
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CLIENT FEDERAL BUILDING

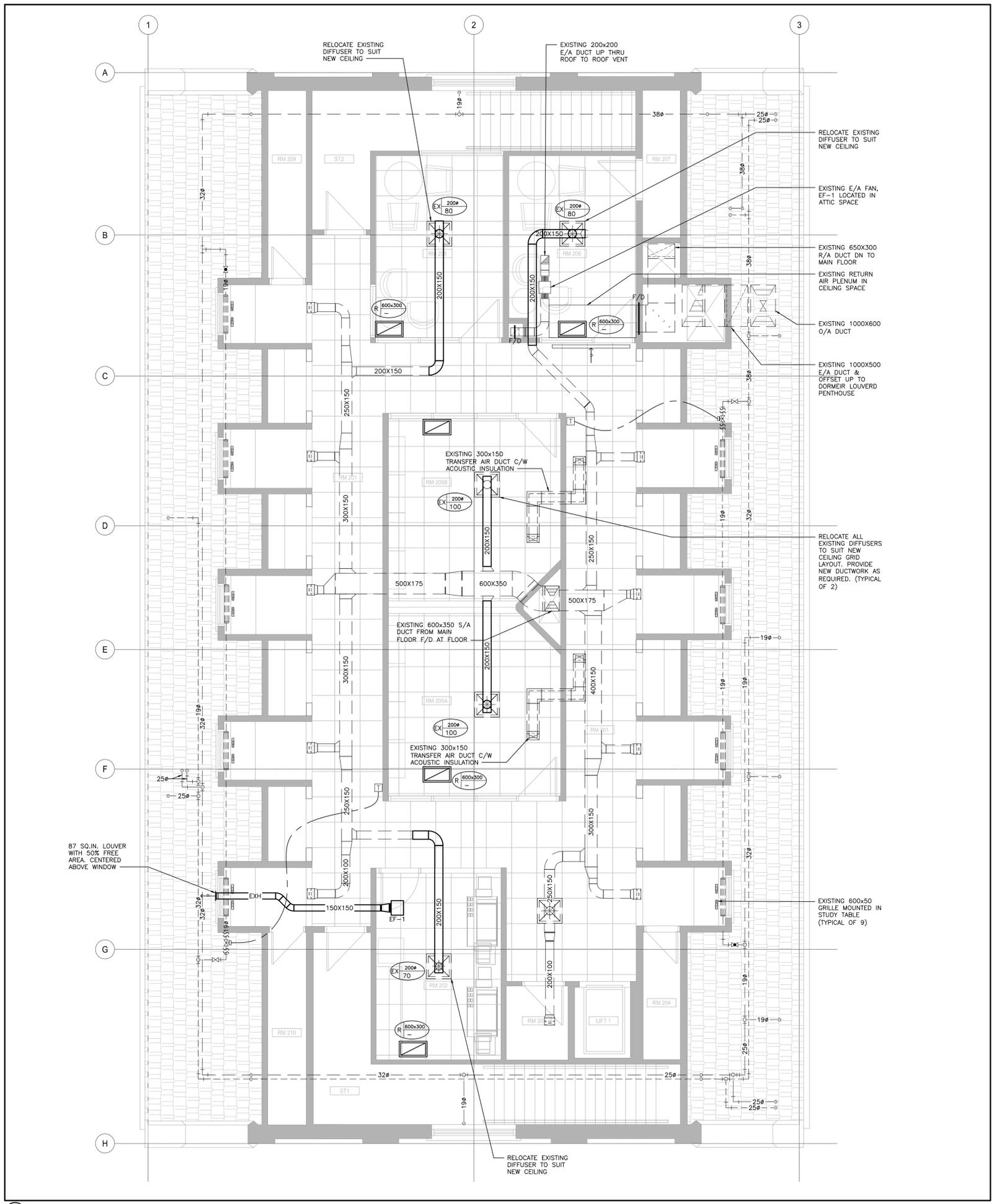
PROJECT TBU 8 RESOURCE CENTRE INTERIOR FIT-UP

CONTENTS H.V.A.C. PLAN SECOND FLOOR

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|----------------------------|-------------------|
| PROJECT NUMBER SOA 7222198 | SHEET NUMBER M3.1 |
| DATE 2018/05/22 | |

- GENERAL NOTES
- DO NOT SCALE DRAWINGS. THE LOCATIONS OF ALL ITEMS SHOWN ON THE DRAWINGS OR SPECIFIED THAT ARE NOT DEFINITELY FIXED BY DIMENSIONS ARE APPROXIMATE ONLY. THE EXACT LOCATIONS NECESSARY TO SECURE THE BEST CONDITIONS AND RESULTS MUST BE DETERMINED BY THE SITE CONDITIONS. REVIEW ALL REVISIONS WITH THE CONSULTANT.
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 - VERIFY STRUCTURAL INTEGRITY OF ALL TEMPORARY AND PERMANENT OPENINGS. ADDITIONAL FRAMING TO ENSURE STRUCTURAL INTEGRITY SHALL BE INCLUDED UNDER THIS CONTRACT.

- HVAC NOTES
- ALL HWS AND HWR BRANCH PIPES SHALL BE MINIMUM 19MM (3/4 IN.) UNLESS INDICATED OTHERWISE.
 - ALL CONTROL VALVES FOR PERIMETER TERMINAL UNITS AND RADIATION ARE TYPE-1 UNLESS INDICATED OTHERWISE.
 - ALL TRANSFER AIR DUCTS SHALL BE 600X300X1200 (WXHXL) ACOUSTICALLY LINED ELBOW OR STRAIGHT DUCTS AS SHOWN OR UNLESS INDICATED OTHERWISE. TRANSFER AIR DUCTS SHALL NOT BE USED IN LIEU OF SILENCERS.
 - ALL DUCTWORK DOWNSTREAM OF VAV BOXES AND FAN POWERED BOXES SHALL BE EQUAL TO THE BOX OUTLET SIZE (MINIMUM) OR LARGER AS INDICATED. WHERE OUTLET SIZES ARE ODD SIZES, THE DUCT SIZE SHALL BE ROUNDED UP TO THE NEAREST EVEN SIZE (I.E. 318MM (12.5 IN.) OR 330MM (13 IN.) SHALL BE 356MM (14 IN.)). PROVIDE TRANSITION DUCTS AS REQUIRED.
 - REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR EXACT LOCATIONS OF GRILLES AND DIFFUSERS.
 - TEMPERATURE SENSORS ARE LOCATED TO AID IN PRICING ONLY AND ALL REQUIRED SENSORS MAY NOT BE SHOWN (REFER TO SPECIFICATIONS). COORDINATE FINAL LOCATION WITH THE ARCHITECT WITHIN 1000MM (40 IN.) OF LOCATION SHOWN. ALL RELOCATIONS OUTSIDE OF THIS RANGE SHALL BE REVIEWED WITH THE CONSULTANT.
 - TEMPERATURE SENSORS SHALL BE NOMINALLY 1200MM (48 IN.) ABOVE THE FINISHED FLOOR UNLESS INDICATED OTHERWISE.
 - DIFFUSER DUCT RUN-OUTS SHALL BE THE SAME SIZE AS THE DIFFUSER INLETS UNLESS INDICATED OTHERWISE.
 - AIR FLOW RATES SHALL BE BALANCED EQUALLY BETWEEN ALL INTERIOR DIFFUSERS BASED ON THE MAXIMUM AIR FLOW RATE SHOWN FOR THE ASSOCIATED VAV BOX.
 - ALL PIPING SHALL BE OVERHEAD, TIGHT TO UNDERSIDE OF THE STRUCTURE WITH SUFFICIENT ROOM FOR INSULATION UNLESS INDICATED OTHERWISE.
 - CONTRACTOR TO VERIFY STRUCTURAL INTEGRITY OF TEMPORARY AND PERMANENT OPENINGS. ADDITIONAL FRAMING TO ENSURE STRUCTURAL INTEGRITY SHALL BE INCLUDED UNDER THIS CONTRACT.



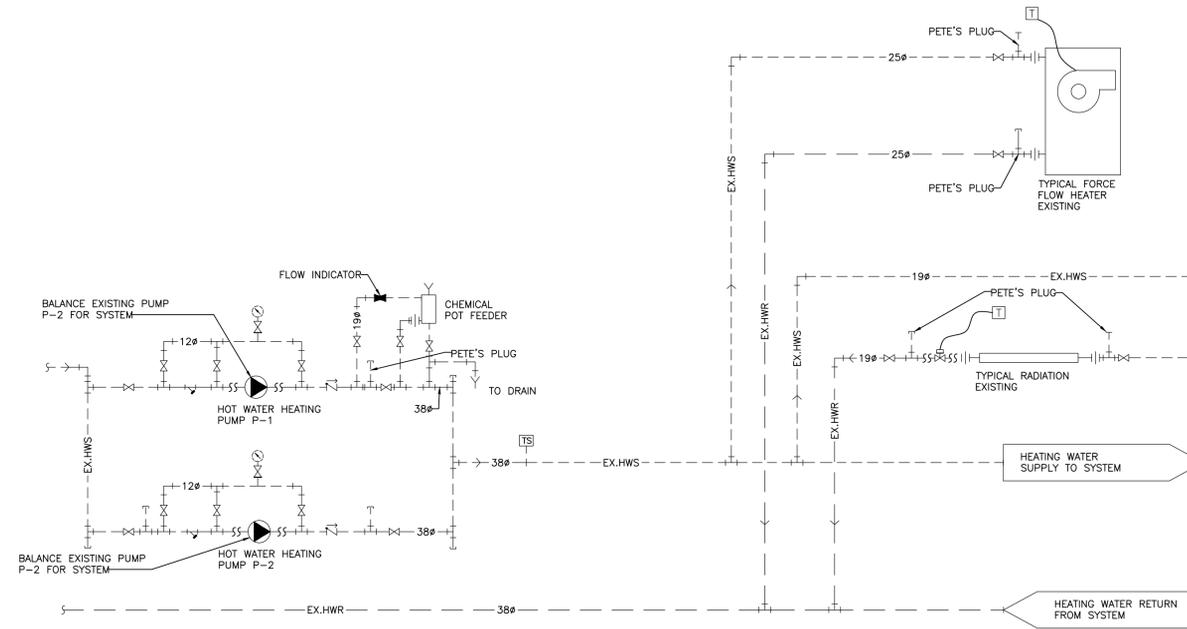
1 H.V.A.C. PLAN - SECOND FLOOR
1:50



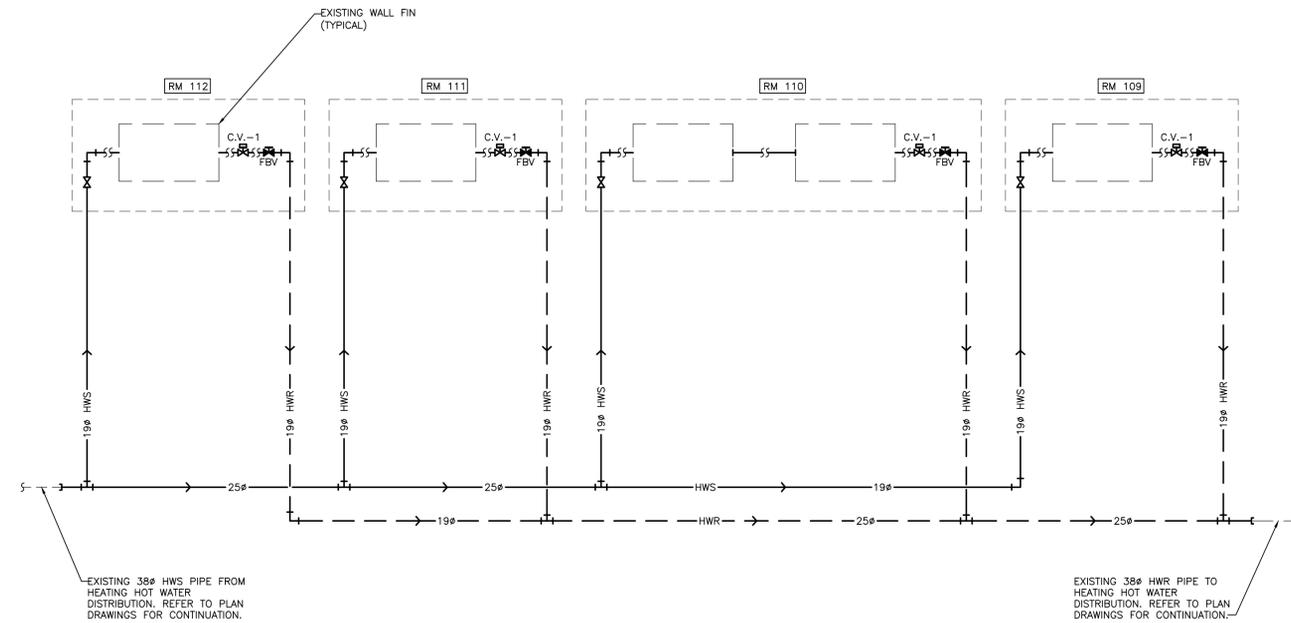
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SEALS



1. EXISTING HEATING SCHEMATIC



2. WALL FIN HOT WATER SCHEMATIC

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- ISSUES / REVISIONS
- 1 17/10/05 ISSUED FOR SCHEMATIC DESIGN
 - 2 17/12/12 ISSUED FOR 60% CONSTRUCTION DOCUMENTS
 - 3 18/02/01 ISSUED FOR 90% CONSTRUCTION DOCUMENTS
 - 4 18/05/22 ISSUED FOR CONSTRUCTION
 - 5
 - 6
 - 7
 - 8

CLIENT FEDERAL BUILDING

PROJECT TBU 8 RESOURCE CENTRE INTERIOR FIT-UP

CONTENTS MECHANICAL SCHEMATICS AND DETAILS

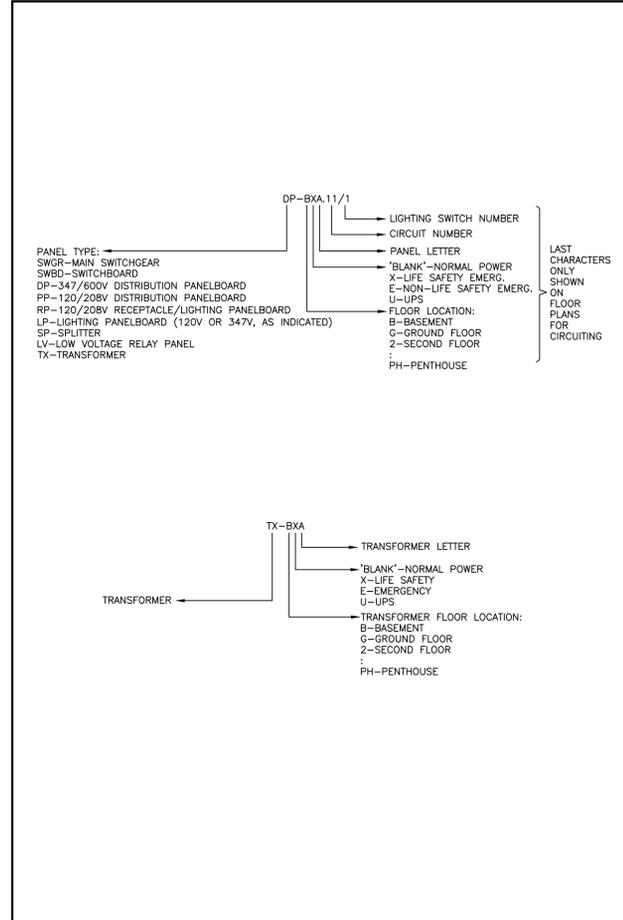
PROJECT NUMBER SOA 7222198
DATE 2018/05/22

SHEET NUMBER M4.0

| SYMBOL | DESCRIPTION | SYMBOL | DESCRIPTION |
|---------|---|--------|---|
| ▽ | WALL MOUNTED VOICE AND DATA OUTLET(S). CABLE TYPE AS PER SPECIFICATION. | EPS | EMERGENCY PHONE STATION. CABLE TYPE AS PER SPECIFICATION. |
| ▽ | WALL MOUNTED VOICE OUTLET(S). CABLE TYPE AS PER SPECIFICATION. | IC | COMMUNICATIONS INTERCOM |
| ▽ | WALL MOUNTED DATA OUTLET(S). CABLE TYPE AS PER SPECIFICATION. | AVK | PROJECTOR BY AUDIOVISUAL CONTRACTOR. 6x6x6" AV PULL BOX ABOVE FINISHED CEILING BY ELECTRICAL CONTRACTOR. REFER TO DRAWING FOR POWER REQUIREMENTS. |
| ▽ | FLOOR MOUNTED VOICE AND DATA OUTLET(S). CABLE TYPE AS PER SPECIFICATION. | SA | SURFACE MOUNTED SPEAKER BY AUDIOVISUAL CONTRACTOR. 1 GANG AV BACK BOX BY ELECTRICAL CONTRACTOR. |
| ▽ | FLOOR MOUNTED VOICE OUTLET(S). CABLE TYPE AS PER SPECIFICATION. | | |
| ▽ | FLOOR MOUNTED DATA OUTLET(S). CABLE TYPE AS PER SPECIFICATION. | | |
| ▽ | FURNITURE MOUNTED VOICE AND DATA OUTLET(S). CABLE TYPE AS PER SPECIFICATION. | | |
| ▽ | FURNITURE MOUNTED VOICE OUTLET(S). CABLE TYPE AS PER SPECIFICATION. | | |
| ▽ | FURNITURE MOUNTED DATA OUTLET(S). CABLE TYPE AS PER SPECIFICATION. | | |
| ▽ | CEILING MOUNTED VOICE AND DATA OUTLET(S). CABLE TYPE AS PER SPECIFICATION. | | |
| ▽ | CEILING MOUNTED DATA OUTLET(S). CABLE TYPE AS PER SPECIFICATION. | | |
| ▽ | SERVICE POLE MOUNTED VOICE AND DATA OUTLET(S). CABLE TYPE AS PER SPECIFICATION. | | |
| ▽ | RACEWAY MOUNTED VOICE AND DATA OUTLET(S). CABLE TYPE AS PER SPECIFICATION. | | |
| ▽ | COAXIAL CATV OUTLET | | |
| -J-J-J- | MAIN CABLE SUPPORT ROUTE FOR COMMUNICATIONS CABLING | | |
| CB | COMMUNICATIONS BOX | | |
| P | POWER ZONE BOX | | |
| T | TELEPHONE ZONE BOX | | |

NOTE: NOT ALL SYMBOLS APPLY. REFER TO FLOOR PLANS AND DRAWINGS

7 DATA AND COMMUNICATIONS (ESD-000.05)



8 DESIGNATION DIAGRAM (ESD-000.17)

| SYMBOL | DESCRIPTION | SYMBOL | DESCRIPTION |
|--------------------------------|--|--------|--|
| ALARM INITIATING DEVICES | | | |
| ☉ | CEILING MOUNTED PHOTO-ELECTRIC SMOKE DETECTOR | AS | AIR SAMPLING SYSTEM C/W SUPERVISORY AND ALARM ZONE |
| ☉ | WALL MOUNTED PHOTO-ELECTRIC SMOKE DETECTOR | MS | MANUAL PULL STATION |
| ☉ | CEILING MOUNTED PHOTO-ELECTRIC SMOKE DETECTOR C/W RELAY BASE | FS | ALARM FLOW SWITCH (SUPPLIED BY OTHERS) |
| ☉ | CEILING MOUNTED RATE-OF-RISE HEAT DETECTOR | PS | ALARM PRESSURE SWITCH (SUPPLIED BY OTHERS) |
| ☉ | WALL MOUNTED RATE-OF-RISE HEAT DETECTOR | AVV | ALARM CHECK VALVE (SUPPLIED BY OTHERS) |
| ☉ | CEILING MOUNTED FIXED TEMPERATURE HEAT DETECTOR | DPV | ALARM DRY PIPE VALVE (SUPPLIED BY OTHERS) |
| ☉ | WALL MOUNTED FIXED TEMPERATURE HEAT DETECTOR | MSD | BEAM SMOKE DETECTOR (TRANSMITTER) |
| ☉ | DUCT TYPE PHOTO-ELECTRIC SMOKE DETECTOR | MSR | BEAM SMOKE DETECTOR (RECEIVER) |
| ☉ | CEILING MOUNTED COMBINATION HEAT + SMOKE DETECTOR | ☉ | FLAME DETECTOR |
| ☉ SA | LOCAL 120V SMOKE ALARM | | |
| ☉ CO/SA | LOCAL 120V COMBINATION CARBON MONOXIDE AND SMOKE ALARM | | |
| ☉ CO | LOCAL 120V CARBON MONOXIDE DETECTOR | | |
| ☉ SA | LOCAL 120V COMBINATION STROBE AND SMOKE ALARM | | |
| SUPERVISORY INITIATING DEVICES | | | |
| LS | LOW PRESSURE SUPERVISED SWITCH (SUPPLIED BY OTHERS) | | |
| SV | SPRINKLER SUPERVISED VALVE (SUPPLIED BY OTHERS) | | |

NOTE: NOT ALL SYMBOLS APPLY. REFER TO FLOOR PLANS AND DRAWINGS

5 FIRE ALARM LEGEND 1 OF 2 (ESD-000.07)

| SYMBOL | DESCRIPTION | SYMBOL | DESCRIPTION |
|--------------------|---|--------|---|
| SIGNALLING DEVICES | | | |
| ☉ | HORN | ☉ | CEILING MOUNTED EMERGENCY EVACUATION SPEAKER |
| ☉ | DOUBLE SIDED HORN | ☉ | WALL MOUNTED EMERGENCY EVACUATION SPEAKER |
| ☉ | HORN+STROBE COMBINATION. STROBE INTENSITY TO BE MIN. 15CD UNLESS OTHERWISE NOTED. | ☉ | CEILING MOUNTED EMERGENCY EVACUATION SPEAKER + STROBE COMBINATION. STROBE INTENSITY TO BE MIN. 15CD UNLESS OTHERWISE NOTED. |
| ☉ | DOUBLE SIDED HORN+STROBE COMBINATION. STROBE INTENSITY TO BE MIN. 15CD UNLESS OTHERWISE NOTED. | ☉ | WALL MOUNTED EMERGENCY EVACUATION SPEAKER + STROBE COMBINATION. STROBE INTENSITY TO BE MIN. 15CD UNLESS OTHERWISE NOTED. |
| ☉ | MINI HORN | ☉ | CEILING MOUNTED FIRE ALARM STROBE. STROBE INTENSITY TO BE MIN. 15CD UNLESS OTHERWISE NOTED. |
| ☉ | SPEAKER HORN | ☉ | WALL MOUNTED FIRE ALARM STROBE. STROBE INTENSITY TO BE MIN. 15CD UNLESS OTHERWISE NOTED. |
| ☉ | FIRE ALARM BELL, 103mm(4") UNLESS OTHERWISE NOTED. | ☉ | 10 MINUTES SILENCE SWITCH FOR SPEAKERS IN SUITES |
| ☉ | FIRE ALARM BELL/STROBE, 103mm(4") BELL UNLESS OTHERWISE NOTED, 15CD INTENSITY UNLESS OTHERWISE NOTED. | | |
| ANCILLARY DEVICES | | | |
| IS | ISOLATION MODULE | IPACP | TROUBLE AND ALARM CONNECTION TO PRE-ACTION CONTROL PANEL |
| ICL | FIELD INSTALLED ADDRESSABLE CONTROL POINT | P | FLOOR MOUNTED DOOR HOLD OPEN DEVICE |
| FIRE | "FIRE, DO NOT ENTER" SIGN | H | WALL MOUNTED DOOR HOLD OPEN DEVICE |
| EPG | FIRE ALARM PASSIVE GRAPHIC | FP | FIRE ALARM PANEL CONTROL, DGP OR ANNUNCIATOR AS NOTED. |
| VDT | VIDEO DISPLAY TERMINAL FOR BUILDING OPERATIONS PERSONNEL | VXT | END-OF-LINE RESISTOR TERMINATION |
| HS | SUPERVISED FIRE FIGHTERS HAND SET | HI | SMOKE DAMPER, USED IN CONJUNCTION WITH MONITORING DEVICE FOR POSITION ANNUNCIATION AND CONTROL DEVICE |
| FASD | FIRE ALARM SHUT DOWN | | |
| FASU | FIRE ALARM START UP | | |
| RST | REMOTE TESTING STATION FOR DUCT SMOKE DETECTORS | | |
| MOM | FIELD INSTALLED MONITORING MODULE FOR ALARM OR SUPERVISORY | | |

NOTE: NOT ALL SYMBOLS APPLY. REFER TO FLOOR PLANS AND DRAWINGS

6 FIRE ALARM LEGEND 2 OF 2 (ESD-000.08)

| SYMBOL | DESCRIPTION | SYMBOL | DESCRIPTION |
|----------------------------------|--------------------------------|--------|------------------------------------|
| ACCESS CONTROL | | | |
| ACSP | ACCESS CONTROL SYSTEM PANEL | KS | KEY SWITCH |
| ACSS | ACCESS CONTROL SYSTEM SERVER | LM | LATCH BOLT MONITOR |
| ADO | AUTOMATIC DOOR OPERATOR | LR | LATCH BOLT MONITOR REQUEST TO EXIT |
| BR | BIOMETRIC READER | MR | MAGLOCK KEY RESET SWITCH |
| CR | CARD READER | MD | MAGNETIC DOOR HOLD/OPEN DEVICE |
| CM | CENTRAL MANAGEMENT STATION | ML | MAGNETIC LOCK |
| DA | DOOR ALARM | MR | MOTION REQUEST TO EXIT |
| DC | DOOR CONTACT | PCMU | POWER SUPPLY CONTROL UNIT |
| ED | ELECTRIC DOOR HOLD/OPEN DEVICE | PB | PUSH BUTTON DOOR OPERATOR |
| ELR | ELECTRIC LATCH RETRACTION | PR | PUSH BUTTON REQUEST TO EXIT |
| ELM | ELECTRIC MORTISE LOCK | RR | REMOTE RELEASE |
| ES | ELECTRIC STRIKE | RN | RF NODE |
| ETW | GATEWAY | RR | RF RECEIVER |
| IPD | IP DOOR CONTROLLER | XX | SECURITY DOOR TAG. XX DENOTES TYPE |
| KE | KEY ENCODER | WL | WIRELESS LOCK |
| REAL TIME LOCATING SYSTEM (RTLS) | | | |
| LF | LOW FREQUENCY EXCITER | RFM | RF READER MASTER |
| IR | INFRARED READER | RF | RF READER |
| RD | REMOTE DISPLAY UNIT | REF | RF ETHERNET READER |
| LAR | LOCAL AREA RECEIVER | RLR | RF LONG RANGE READER |

NOTE: NOT ALL SYMBOLS APPLY. REFER TO FLOOR PLANS AND DRAWINGS

3 SECURITY LEGEND 1 OF 2 (ESD-000.15)

| SYMBOL | DESCRIPTION | SYMBOL | DESCRIPTION |
|--------------------------------|-------------------------|--------|---|
| ELECTRONIC PERSONAL PROTECTION | | | |
| EPS | EMERGENCY PHONE STATION | DAS | DURESS ALARM STATION |
| SL | STROBE LIGHT | PAS | PANIC ALARM RECEIVER |
| PB | PANIC BUTTON | | |
| INTERCOM LEGEND | | | |
| IC | INTERCOM | MC | MASTER INTERCOM |
| ENI | ENTRY PHONE CONSOLE | | |
| CCTV | | | |
| FC | FIXED CAMERA | DCSS | CCTV SYSTEM SERVER |
| PTC | PAN-TILT-ZOOM CAMERA | PI | POWER INJECTOR |
| PC | PERSONAL COMPUTER | VM | VIDEO MONITOR |
| CM | COMPUTER MONITOR | FCCH | FIXED CCTV CAMERA HORIZONTAL ANGLE OF VIEW |
| DVR | DIGITAL VIDEO RECORDER | LM | LCD MONITOR, SIZE AS INDICATED |
| NVR | NETWORK VIDEO RECORDER | | |
| INTRUSION DETECTION | | | |
| SI | SIREN | IDS | INTRUSION DETECTION SYSTEM PANEL |
| BS | BREAK GLASS SENSOR | PS | POWER SUPPLY |
| MS | MOISTURE SENSOR | MS | WALL MOUNTED SECURITY MOTION SENSOR |
| K | KEYPAD | CS | CEILING MOUNTED SECURITY 360° MOTION SENSOR |

NOTE: NOT ALL SYMBOLS APPLY. REFER TO FLOOR PLANS AND DRAWINGS

4 SECURITY LEGEND 2 OF 2 (ESD-000.16)

| SYMBOL | DESCRIPTION | SYMBOL | DESCRIPTION |
|--------|---|--------|---|
| IT | ISOLATION TRANSFORMER - DELTA-WYE UNLESS OTHERWISE NOTED. | GRF | GROUND FAULT ALARM RELAY |
| IT | ISOLATION TRANSFORMER WITH ELECTROSTATIC SHIELD - DELTA-WYE UNLESS OTHERWISE NOTED. | IP | IP BASED POWER QUALITY DIGITAL METER. PROVIDE 21mm(3/4") CONDUIT TO NEAREST TELECOM ROOM. |
| ICB | MOLDED CASE CIRCUIT BREAKER, SIZE AS SHOWN | EG | EMERGENCY GENERATOR |
| ICB | LOW VOLTAGE, DRAW-OUT CIRCUIT BREAKER, TRIP PLUG AND FRAME SIZE AS SHOWN | GC | GROUND CONNECTION POINT |
| ICB | DRAW-OUT VACUUM CIRCUIT BREAKER, PROTECTIVE RELAY FUNCTIONS AND FRAME SIZE AS SHOWN | ESC | ELECTRONIC TRIP SETTING CONTROL (GROUND FAULT) |
| ICB | FUSIBLE LOAD BREAK ISOLATION SWITCH, VOLTAGE, FUSE AND FRAME SIZE AS SHOWN. | GL | GROUND LOOP |
| ICB | FUSE | HGRF | HIGH RESISTANCE GROUND FAULT SYSTEM |
| ICB | INSULATED CASE CIRCUIT BREAKER | LSA | LIGHTNING SURGE ARRESTOR |
| ICB | INTEGRAL BREAKER AND STARTER UNIT, BREAKER AND FRAME SIZE AS SHOWN | LB | LOAD BANK |
| ICB | INTEGRAL SWITCH AND FUSE UNIT, FUSE AND FRAME SIZE AS SHOWN | LE | ELECTRONIC TRIP SETTING CONTROL (LONG, SHORT) |
| ICB | LOAD BREAK ISOLATION SWITCH, VOLTAGE AND FRAME SIZE AS SHOWN. | LE | ELECTRONIC TRIP SETTING CONTROL (LONG, SHORT, INSTANTANEOUS) |
| ICB | AUTOMATIC TRANSFER SWITCH WITH BY-PASS | LE | ELECTRONIC TRIP SETTING CONTROL (LONG, SHORT, INSTANTANEOUS, GROUND FAULT) |
| ICB | AUTOMATIC TRANSFER SWITCH WITHOUT BY-PASS | MS | METERING SOCKET |
| ICB | FIRE PUMP AUTOMATIC TRANSFER SWITCH AND STARTER UNIT (BY OTHERS) | MC | METERING CABINET |
| ICB | MANUAL TRANSFER SWITCH OR DOUBLE THROW SWITCH | EM | DIGITAL ELECTRONIC METER |
| ICB | AMMETER | SPD | SURGE PROTECTION DEVICE |
| ICB | AUTO-TRANSFORMER | | |
| ICB | BATTERY | | |
| ICB | CONTACTOR | | |
| ICB | CURRENT TRANSFORMER | | |
| ICB | CURRENT TRANSFORMER (Z.S. - DENOTES ZERO SEQUENCE) | | |

NOTE: NOT ALL SYMBOLS APPLY. REFER TO FLOOR PLANS AND DRAWINGS

1 SINGLE LINE DIAGRAM 1 OF 2 (ESD-000.13)

| SYMBOL | DESCRIPTION | SYMBOL | DESCRIPTION |
|--------|--|--------|---|
| PT | POTENTIAL TRANSFORMER | IKS | KEY INTERLOCK SYSTEM - ONE KEY |
| ZCT | ZERO SEQUENCE CURRENT TRANSFORMER | IKS | KEY INTERLOCK SYSTEM - N LOCKS, N-1 KEYS UNLESS NOTED OTHERWISE |
| UD | UPS DIODE | EIS | ELECTRONIC INTERLOCK SYSTEM - N LOCKS |
| VI | VOLTAGE INDICATOR | MT | MEDIUM VOLTAGE CABLE TERMINATION POINT WITH STRESS CONE |
| ED | DENOTES CONNECT 'ED' LOAD APPLIED TO DESIGNATED APPARATUS. | ET | ELECTRONIC TRANSFORMER TEMPERATURE RELAY |
| PFKVAR | AUTOMATIC POWER FACTOR CORRECTION CAPACITOR SYSTEM, SIZE AS SHOWN, COMPLETE WITH TUNED INPUT FILTER. | PM | POWER METER |
| HRR | HIGH RESISTANCE GROUNDING RESISTOR - MAXIMUM CONTINUOUS AMPS AS SHOWN | DTU | DIGITAL TRIP UNIT WITH METERING FUNCTION |
| RFN | RELAY FUNCTION NUMBER | ST | SHUNT TRIP |
| | | IP | IP BASED GATEWAY FOR POWER MONITORING |

NOTE: NOT ALL SYMBOLS APPLY. REFER TO FLOOR PLANS AND DRAWINGS

2 SINGLE LINE DIAGRAM 2 OF 2 (ESD-000.14)

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ISSUES / REVISIONS
 1 2017/12/12 ISSUED FOR 86% REVIEW
 2 2018/01/30 ISSUED FOR 90% REVIEW
 3 2018/02/07 RE-ISSUED FOR 99% REVIEW
 4 2018/05/22 ISSUED FOR CONSTRUCTION

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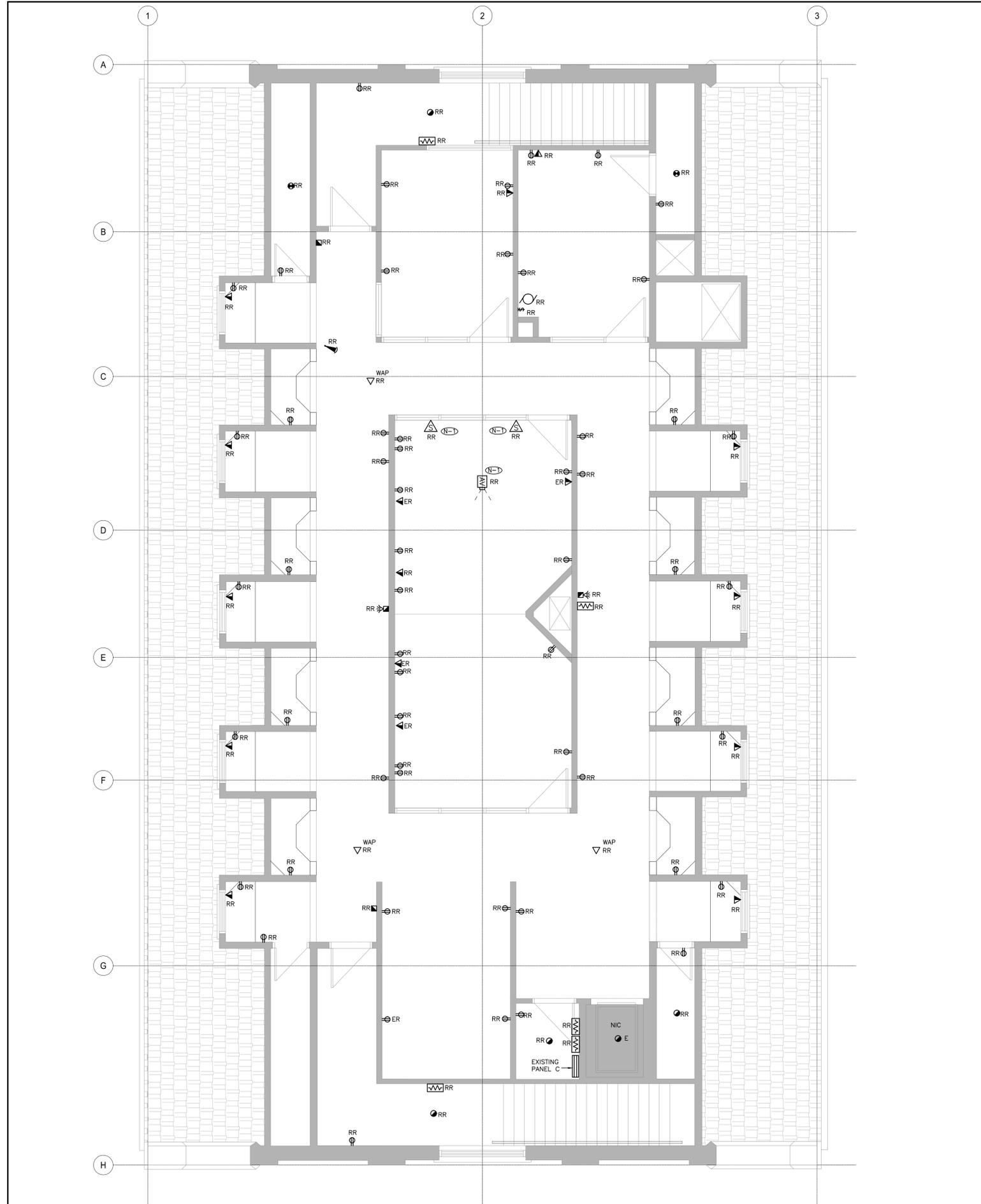
PROJECT
 TBU 8 RESOURCE CENTRE INTERIOR FIT-UP

CONTENTS
SYMBOL LEGENDS AND STANDARD DETAILS

PROJECT NUMBER
 SOA 7222198

SHEET NUMBER
E0.1

DATE
 2018/05/22



GENERAL NOTES:

1. REMOVE AND REINSTALL ALL SURFACE MOUNTED DEVICES ON THE MAIN FLOOR, SECOND FLOOR AND BOTH STAIRWELLS TO ACCOMMODATE PAINTING (EXCLUDING DEVICES THAT ARE BEING REMOVED OR RELOCATED). REMOVE OR RELOCATE DEVICES AS SHOWN. NOT ALL DEVICES ARE SHOWN. CONTRACTOR SHALL SURVEY THE SITE PRIOR TO SUBMITTING THE TENDER AND ALLOW FOR HANDLING OF ALL THE DEVICES PRESENT ON SITE AT THE TIME OF THE TENDER WALKTHROUGH. FOR EXISTING TO REMAIN OUTLETS, REMOVE AND REINSTALL COVER PLATES, COVER / PROTECT OUTLETS. COORDINATE WITH ARCHITECTURAL DRAWINGS FOR THE EXTEND OF THE PAINTING SCOPE.
2. WHERE THE SCOPE OF WORK REQUIRES REMOVAL OF THE EXISTING FIRE ALARM DEVICES, PROVIDE FIRE WATCH COMPLETE WITH EVACUATION PROCEDURE FOR THE DURATION OF THE FIRE ALARM SYSTEM OUTAGE. ENGAGE THE BUILDING FIRE ALARM CONTRACTOR TO RELOCATE THE EXISTING DEVICES AS SHOWN AND COMPLETE PARTIAL FIRE ALARM SYSTEM VERIFICATION IN ACCORDANCE WITH CAN/ULC S537 UPON RE-INSTALLATION OF THE DEVICES.
3. WHERE EXISTING RECEPTACLES ARE BEING REMOVED, PULL WIRING AND CONDUIT BACK TO THE NEAREST EXISTING RECEPTACLE OR THE RESPECTIVE PANEL. WHERE THE WIRING IS REMOVED BACK TO THE PANEL, MODIFY THE EXISTING PANEL LEGEND. MARK THE BREAKER AS "SPARE".
4. WAPS, SPEAKERS AND CEILING MOUNTED PROJECTOR WILL BE REMOVED AND REINSTALLED BY THE OWNER. CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVAL AND REINSTALLATION OF ANY ASSOCIATED COVER PLATES AND PROTECTION OF THE EXISTING CABLING.

REFERENCE NOTES:

- (N-D) PROJECTOR AND WALL MOUNTED SPEAKERS SHALL BE REMOVED AND REINSTALLED BY THE OWNER. CONTRACTOR SHALL REMOVE AND REINSTALL OR PROTECT EXISTING HARDWARE AS REQUIRED TO ACCOMMODATE THE ARCHITECTURAL SCOPE OF WORK.

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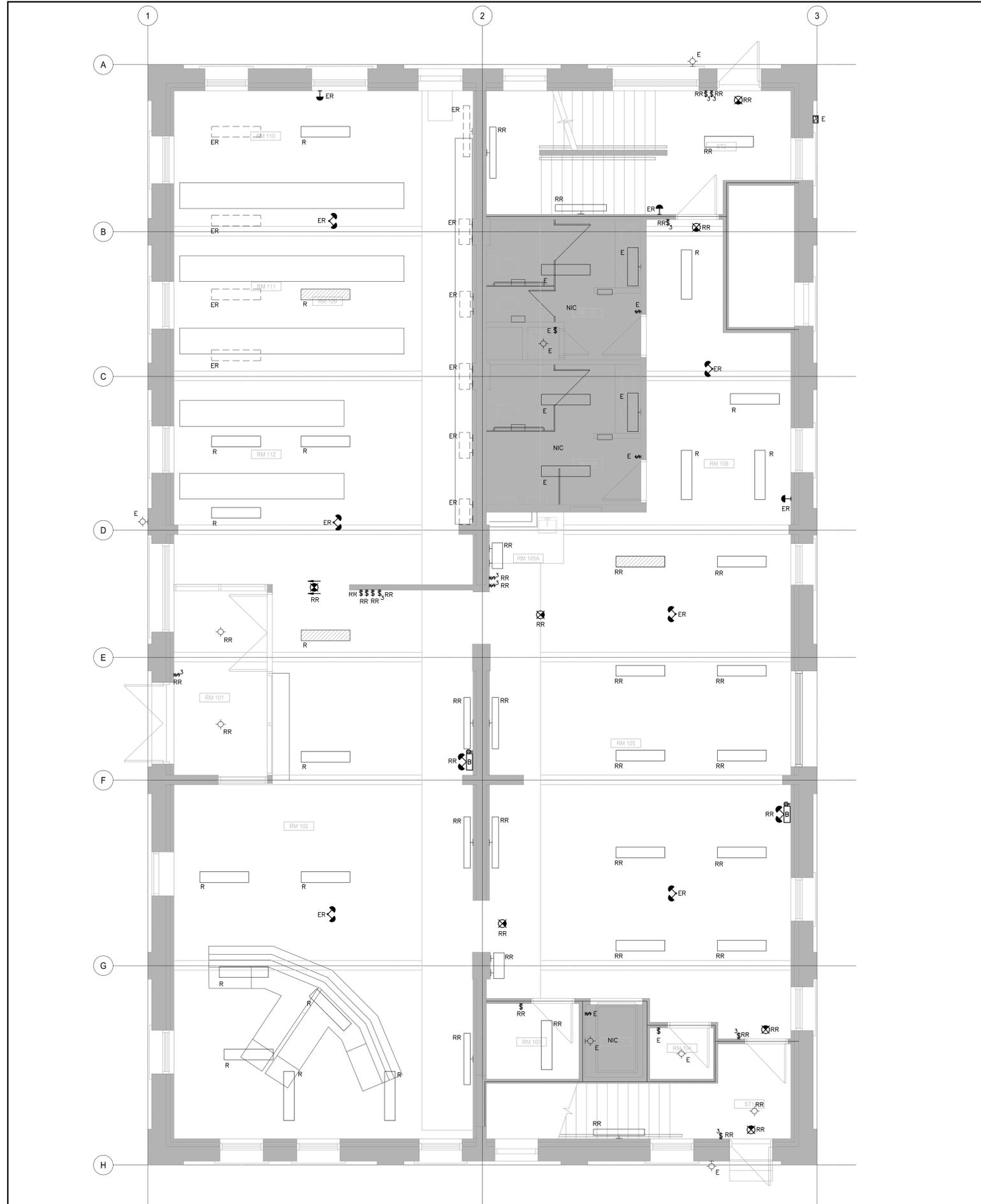
| ISSUES / REVISIONS | |
|--------------------|-------------------------------------|
| 1 | 2017/12/12 ISSUED FOR 66% REVIEW |
| 2 | 2018/01/30 ISSUED FOR 99% REVIEW |
| 3 | 2018/02/07 RE-ISSUED FOR 99% REVIEW |
| 4 | 2018/05/22 ISSUED FOR CONSTRUCTION |

CLIENT FEDERAL BUILDING

PROJECT TBU 8 RESOURCE CENTRE INTERIOR FIT-UP

CONTENTS
DEMOLITION POWER AND SYSTEMS PLAN - SECOND FLOOR

| | |
|-------------------------------|----------------------|
| PROJECT NUMBER SOA 7222198 | SHEET NUMBER E1.1 |
| DATE 2018/05/22 | |



GENERAL NOTES:

1. REMOVE AND REINSTALL ALL SURFACE MOUNTED DEVICES ON THE MAIN FLOOR, SECOND FLOOR AND BOTH STAIRWELLS TO ACCOMMODATE PAINTING (EXCLUDING DEVICES THAT ARE BEING REMOVED OR RELOCATED). REMOVE OR RELOCATE DEVICES AS SHOWN. NOT ALL DEVICES ARE SHOWN. CONTRACTOR SHALL SURVEY THE SITE PRIOR TO SUBMITTING THE TENDER AND ALLOW FOR HANDLING OF ALL THE DEVICES PRESENT ON SITE AT THE TIME OF THE TENDER WALKTHROUGH. FOR EXISTING TO REMAIN OUTLETS, REMOVE AND REINSTALL COVER PLATES, COVER / PROTECT OUTLETS. COORDINATE WITH ARCHITECTURAL DRAWINGS FOR THE EXTEND OF THE PAINTING SCOPE.

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| 1 | 2017/12/12 | ISSUED FOR 66% REVIEW |
| 2 | 2018/01/30 | ISSUED FOR 99% REVIEW |
| 3 | 2018/02/07 | RE-ISSUED FOR 99% REVIEW |
| 4 | 2018/05/22 | ISSUED FOR CONSTRUCTION |

CLIENT FEDERAL BUILDING

PROJECT TBU 8 RESOURCE CENTRE INTERIOR FIT-UP

CONTENTS
DEMOLITION LIGHTING PLAN - MAIN FLOOR

| | |
|-------------------------------|-----------------------------|
| PROJECT NUMBER SOA 7221198 | SHEET NUMBER E1.2 |
| DATE 2018/05/22 | |



1 POWER AND SYSTEMS PLAN - MAIN FLOOR
1:50

GENERAL NOTES:

- WHERE EXISTING DEVICE HEIGHTS COMPLY WITH CODES, NEW DEVICE MOUNTING HEIGHTS SHALL MATCH EXISTING. WHERE EXISTING DEVICE HEIGHTS ARE NOT COMPLIANT WITH CODES, OR WHERE EXISTING DEVICES ARE NOT AVAILABLE, COORDINATE MOUNTING HEIGHT WITH ARCHITECTURAL.
- CIRCUITS CCT1 TO CCT8 SHALL BE SUPPLIED FROM NEW MATCHING BREAKERS IN PANEL B. CIRCUITS CCT9 TO CCT12 SHALL BE SUPPLIED FROM NEW MATCHING BREAKERS IN PANEL C. BREAKERS SHALL BE 15A-1P UNLESS NOTED OTHERWISE. UTILIZE #12 WIRE.
- REPLACE ALL REMAINING CAT5 / CAT5E CABLES WITH NEW CAT6 UTP 24AWG BELDEN / NORDEX STRUCTURED CABLING, 2 CABLES PER LOCATION UNLESS NOTED OTHERWISE.
- ENGAGE AND PAY FOR THE BUILDING FIRE ALARM CONTRACTOR TO SUPPLY, INSTALL AND VERIFY NEW, AS WELL AS RELOCATE AND VERIFY EXISTING FIRE ALARM DEVICES.

REFERENCE NOTES:

- Ⓝ SUPPLY AND INSTALL NEW QUAD RECEPTACLE BELOW THE EXISTING WINDOW. ROUTE POWER TO THE RECEPTACLE VIA THE CRAWLSPACE. FIRESTOP FLOOR PENETRATION. PATCH AND REPAIR THE WALL AS REQUIRED.
- Ⓞ COORDINATE EXACT LOCATION OF VAV BOXES WITH MECHANICAL CONTRACTOR. POWER TO VAV BOXES SHALL BE SUPPLIED FROM A NEW MATCHING 15A-1P BREAKER IN EXISTING PANEL B. UTILIZE #12 WIRE.

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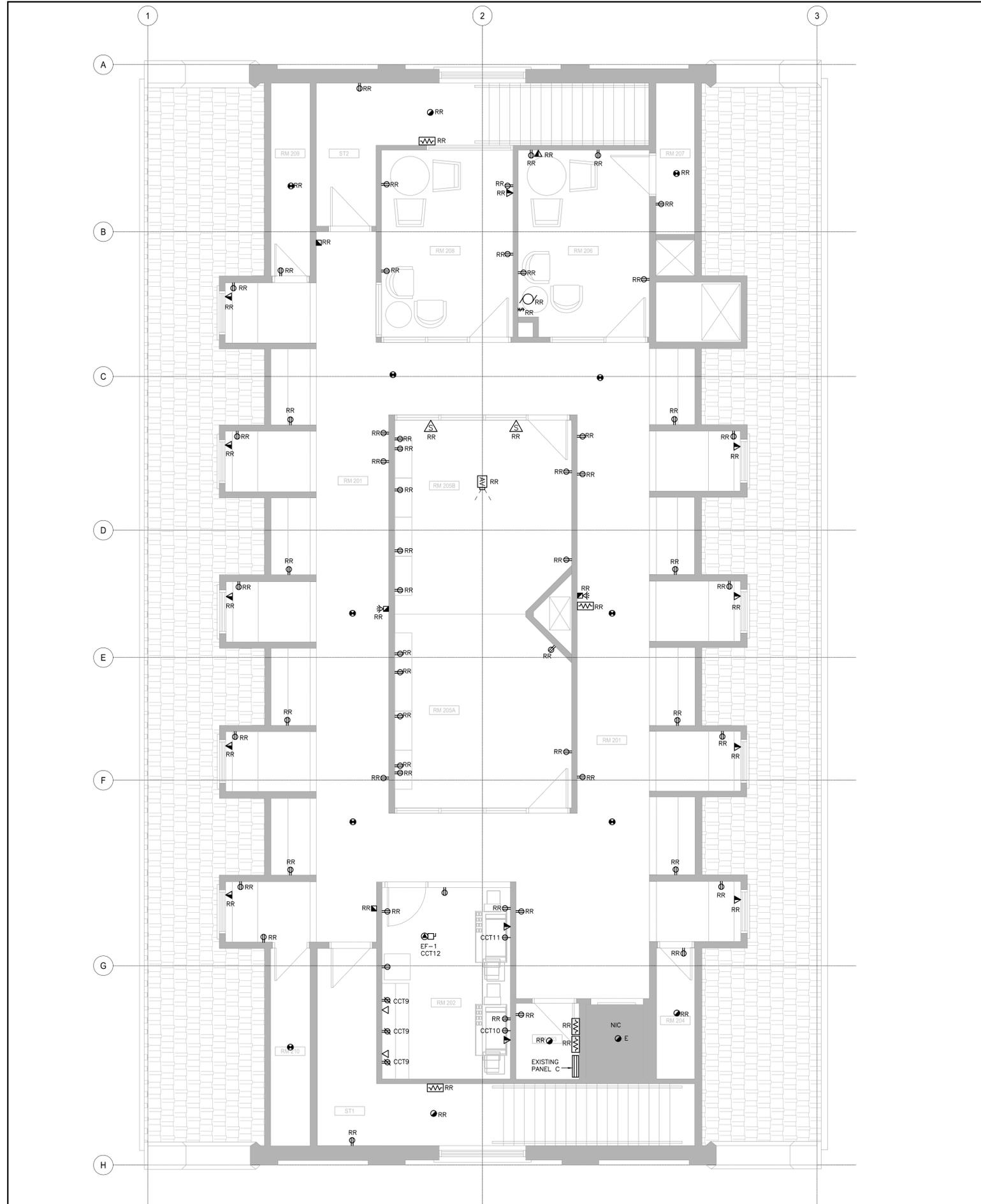
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| 3 | 2018/02/07 RE-ISSUED FOR 99% REVIEW |
| 4 | 2018/05/22 ISSUED FOR CONSTRUCTION |

CLIENT FEDERAL BUILDING

PROJECT TBu 8 RESOURCE CENTRE INTERIOR FIT-UP

CONTENTS POWER AND SYSTEMS PLAN - MAIN FLOOR

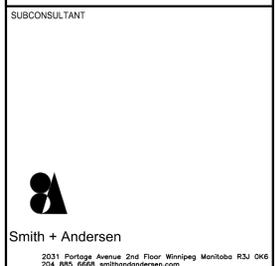
| | |
|------------------------------|----------------------|
| PROJECT NUMBER SOA 722198 | SHEET NUMBER E2.0 |
| DATE 2018/05/22 | |



1 POWER AND SYSTEMS PLAN – SECOND FLOOR
1:50

GENERAL NOTES:

- WHERE EXISTING DEVICE HEIGHTS COMPLY WITH CODES, NEW DEVICE MOUNTING HEIGHTS SHALL MATCH EXISTING. WHERE EXISTING DEVICE HEIGHTS ARE NOT COMPLIANT WITH CODES, OR WHERE EXISTING DEVICES ARE NOT AVAILABLE, COORDINATE MOUNTING HEIGHT WITH ARCHITECTURAL.
- CIRCUITS CCT1 TO CCT8 SHALL BE SUPPLIED FROM NEW MATCHING BREAKERS IN PANEL B. CIRCUITS CCT9 TO CCT12 SHALL BE SUPPLIED FROM NEW MATCHING BREAKERS IN PANEL C. BREAKERS SHALL BE 15A-1P UNLESS NOTED OTHERWISE. UTILIZE #12 WIRE.
- REPLACE ALL REMAINING CAT5 / CAT5E CABLES WITH NEW CAT6 UTP 24AWG BELDEN / NORDEX STRUCTURED CABLING, 2 CABLES PER LOCATION UNLESS NOTED OTHERWISE.
- ENGAGE AND PAY FOR THE BUILDING FIRE ALARM CONTRACTOR TO SUPPLY, INSTALL AND VERIFY NEW, AS WELL AS RELOCATE AND VERIFY EXISTING FIRE ALARM DEVICES.

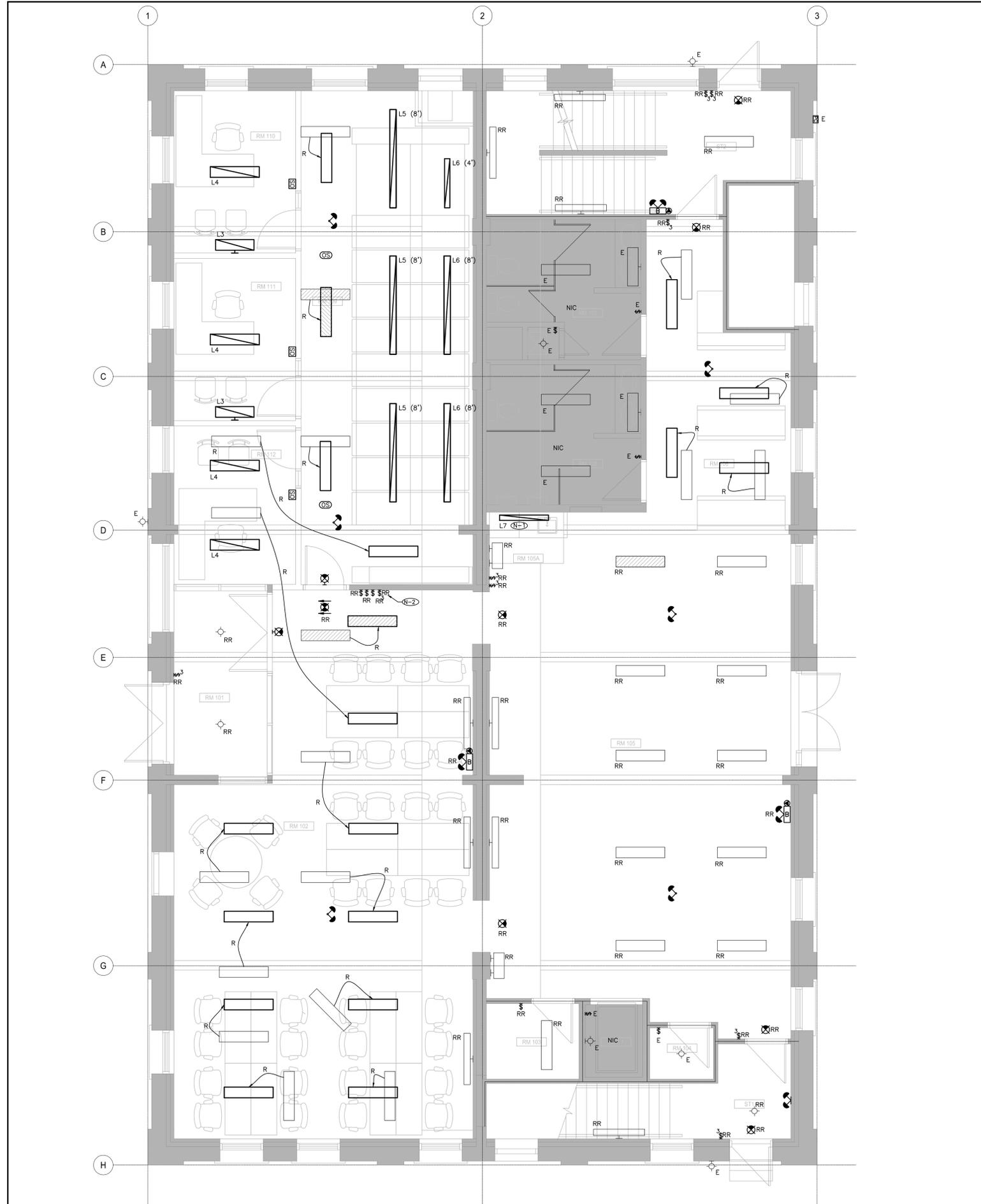


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| ISSUES / REVISIONS | DATE | ISSUED FOR |
|--------------------|------------|--------------------------|
| 1 | 2017/12/12 | ISSUED FOR 66% REVIEW |
| 2 | 2018/01/30 | ISSUED FOR 99% REVIEW |
| 3 | 2018/02/07 | RE-ISSUED FOR 99% REVIEW |
| 4 | 2018/05/22 | ISSUED FOR CONSTRUCTION |

| | |
|----------------|--|
| CLIENT | FEDERAL BUILDING |
| PROJECT | TBU 8 RESOURCE CENTRE INTERIOR FIT-UP |
| CONTENTS | POWER AND SYSTEMS PLAN - SECOND FLOOR |
| PROJECT NUMBER | SOA 722198 |
| DATE | 2018/05/22 |
| SHEET NUMBER | E2.1 |



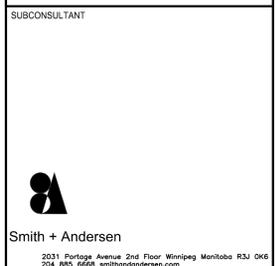
1 LIGHTING PLAN - MAIN FLOOR
E3.0 1:50

GENERAL NOTES:

- UNLESS NOTED OTHERWISE, ALL RELOCATED FIXTURES SHALL BE POWERED FROM THE EXISTING SWITCHED CIRCUITS IN THE RESPECTIVE AREAS. CONTRACTOR SHALL SITE VERIFY LOADS ON THE EXISTING LIGHTING CIRCUITS PRIOR TO CONNECTING ADDITIONAL FIXTURES AND ADVISE THE CONSULTANT IF LOADS EXCEED 1200W ON 15A-1P CIRCUITS, OR 1500W ON 20A-1P CIRCUITS.
- RECONFIGURE EXISTING LIGHTING CIRCUITS TO ACCOMMODATE THE NEW LIGHTING LAYOUT. CAP AND MAKE SAVE EXISTING 3-WAY LIGHT SWITCHES. VERIFY CIRCUIT CAPACITY. WHERE MULTIPLE CIRCUITS ARE CONTROLLED, PROVIDE RELAYS AND THE ASSOCIATED HARDWARE AS REQUIRED.

REFERENCE NOTES:

- Ⓝ FIXTURE SHALL BE CONNECTED TO THE SWITCHED GENERAL LIGHTING CIRCUIT IN THIS AREA.
- Ⓝ REFER TO DRAWING E1.2 FOR MODIFICATIONS TO THE EXISTING SWITCHED LIGHTING CIRCUITS. EXTEND AND RE-WIRE EXISTING LIGHTING CIRCUITS AS NECESSARY TO POWER NEW FIXTURES.



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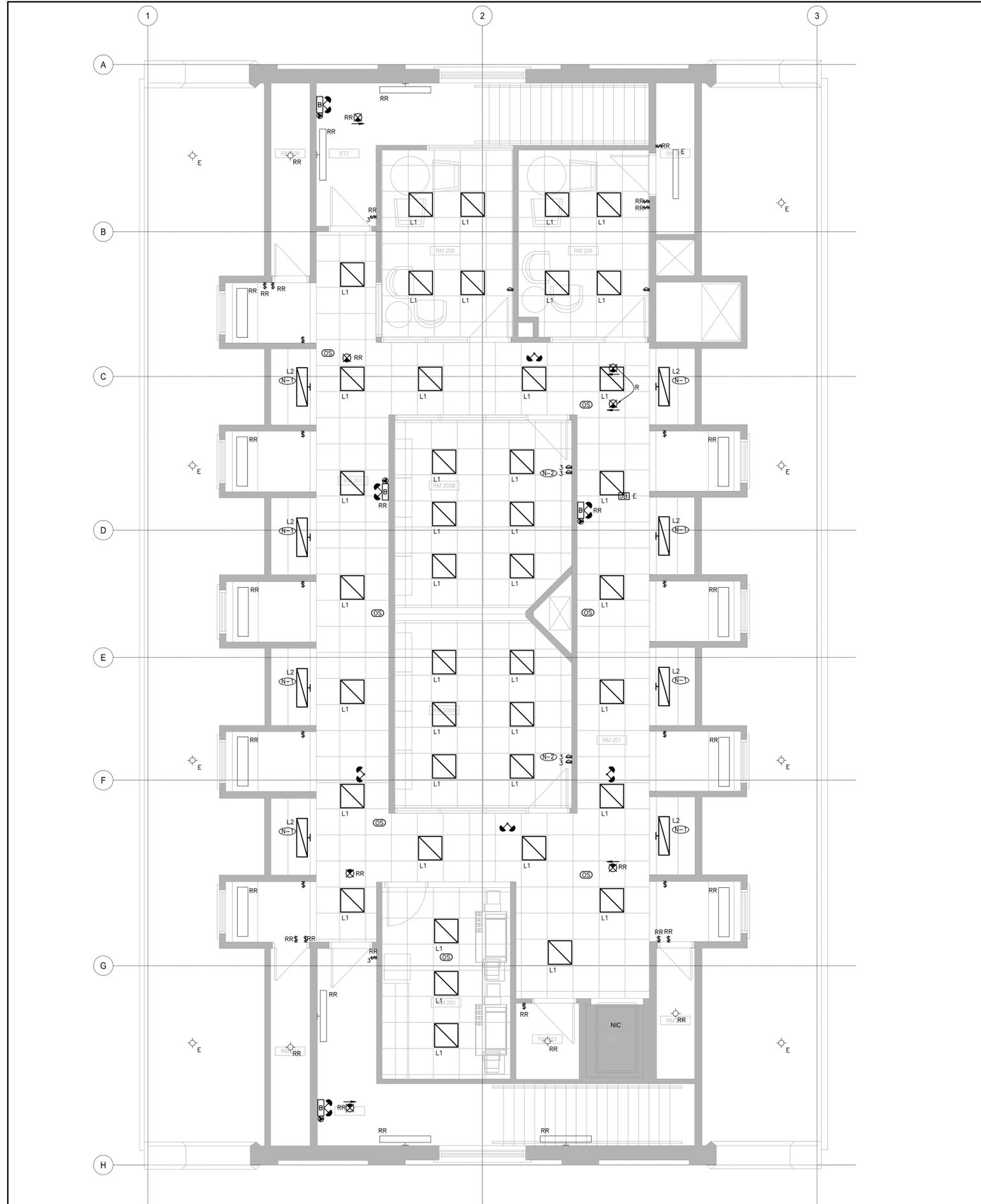
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CLIENT FEDERAL BUILDING

PROJECT TBU 8 RESOURCE CENTRE INTERIOR FIT-UP

CONTENTS LIGHTING PLAN - MAIN FLOOR

| | |
|-------------------------------|----------------------|
| PROJECT NUMBER SOA 7221198 | SHEET NUMBER E3.0 |
| DATE 2018/05/22 | |



1 LIGHTING PLAN - SECOND FLOOR
1:50

GENERAL NOTES:

- UNLESS NOTED OTHERWISE, ALL RELOCATED FIXTURES SHALL BE POWERED FROM THE EXISTING SWITCHED CIRCUITS IN THE RESPECTIVE AREAS. CONTRACTOR SHALL SITE VERIFY LOADS ON THE EXISTING LIGHTING CIRCUITS PRIOR TO CONNECTING ADDITIONAL FIXTURES AND ADVISE THE CONSULTANT IF LOADS EXCEED 1200W ON 15A-1P CIRCUITS, OR 1500W ON 20A-1P CIRCUITS.
- RECONFIGURE EXISTING LIGHTING CIRCUITS TO ACCOMMODATE THE NEW LIGHTING LAYOUT. CAP AND MAKE SAVE EXISTING 3-WAY LIGHT SWITCHES. VERIFY CIRCUIT CAPACITY. WHERE MULTIPLE CIRCUITS ARE CONTROLLED, PROVIDE RELAYS AND THE ASSOCIATED HARDWARE AS REQUIRED.

REFERENCE NOTES:

- FIXTURES SHALL BE CONTROLLED VIA THE CORRIDOR OCCUPANCY SENSORS. RE-WIRE AS NECESSARY. REPLACE EXISTING SWITCHES CONTROLLING THE FIXTURES WITH BLANK COVER PLATES.
- IN MEETING ROOM 205B, PROVIDE A MECHANICALLY ATTACHED LAMACOID LABEL FOR THE SWITCH CONTROLLING LIGHTS IN THE ADJACENT RM 205A INDICATING: "SWITCH OPERATES LIGHTS IN MTG RM 205A". PROVIDE A MATCHING LAMACOID LABEL IN 205A INDICATING: "SWITCH OPERATES LIGHTS IN MTG RM 205B"

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CLIENT FEDERAL BUILDING

PROJECT TBU 8 RESOURCE CENTRE INTERIOR FIT-UP

CONTENTS LIGHTING PLAN - SECOND FLOOR

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