# CITY OF MISSISSAUGA FIRE STATION 123

3050 THE COLLEGEWAY MISSISSAUGA, ONTARIO CANADA

**PROJECT #:**
**12301**

**PROJECT ISSUE STATUS:**
**TENDER**

**ISSUE DATE:**
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MISSISSAUGA

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## ARCHITECTURAL

| DWG # | DRAWING TITLE |
|---|---|
| A00.00 – | GENERAL INFORMATION |
| A00.00 | COVER SHEET |
| A00.01 | CONSULTANT DRAWING LISTS |
| A00.02 | GENERAL NOTES, ABBREVIATIONS, SYMBOLS & OBC MATRIX |
| A00.03 | CONSTRUCTION ASSEMBLY MATRIX - EXTERIOR ENVELOPE |
| A00.04 | CONSTRUCTION ASSEMBLY MATRIX - INTERIOR |
| A00.05 | FIXTURE MOUNTING HEIGHTS |
| A00.06 | TYPICAL OBC UNIVERSAL WASHROOM & SHOWER REQUIREMENTS |
| A01.00 – | FIRE, LIFE SAFETY, & AODA |
| A01.00 | FIRE, LIFE SAFETY, & OBC REQUIREMENTS PLAN |
| A01.01 | PEEL REGION GARBAGE COLLECTION TRACKING SWEEP |
| A01.02 | AERIAL FIRE TRUCK TRACKING SWEEP |
| A01.03 | OBC LIMITING DISTANCE REVIEW |
| A02.00 – | SITE PLAN |
| A02.01 | SITE SURVEY |
| A02.02 | SITE DEMOLITION |
| A02.03 | SITE PLAN & SITE PLAN STATISTICS |
| A02.04 | SITE LAYOUT PLAN |
| A02.05 | SITE DETAILS |
| A02.06 | SITE DETAILS |
| A03.00 – | FLOOR PLANS |
| A03.01 | FOUNDATION PLAN |
| A03.02 | LAYOUT - SLAB SETOUT PLAN |
| A03.03 | FOUNDATION & SLAB DETAILS |
| A03.04 | FLOOR PLAN |
| A03.05 | FLOOR PLAN - INTERIOR PARTITION LAYOUT |
| A03.06 | CLERESTORY PLAN |
| A03.07 | ROOF PLAN |
| A03.09 | LAYOUT PLAN - EDGE OF DECK |
| A03.10 | PV PANEL LAYOUT |
| A03.11 | LEVEL 01 - REFLECTED CEILING PLAN |
| A03.12 | LEVEL 01 - FINISHES PLAN |
| A03.13 | LEVEL 01 - FFE PLAN |
| A03.14 | EXTERIOR & INTERIOR TYPICAL DETAILS |
| A04.00 – | BUILDING ELEVATIONS |
| A04.00 | EXTERIOR ELEVATIONS |
| A04.01 | EXTERIOR ELEVATIONS |
| A04.02 | CLADDING ELEVATIONS |
| A04.03 | CLADDING ELEVATIONS |
| A04.04 | CLADDING ELEVATIONS |
| A05.00 – | BUILDING SECTIONS |
| A05.00 | BUILDING SECTIONS |
| A05.01 | BUILDING SECTIONS |
| A05.02 | BUILDING SECTIONS |
| A05.03 | BUILDING SECTIONS |
| A05.05 | WALL SECTIONS |
| A05.06 | WALL SECTIONS |
| A05.07 | WALL SECTIONS |
| A06.00 – | BUILDING DETAILS |
| A06.00 | SECTION DETAILS |
| A06.01 | EXTERIOR ENVELOPE DETAILS |
| A06.02 | WINDOW SHADE DETAILS |
| A07.00 – | GLAZING, & LOUVER ELEVATIONS |
| A07.00 | INTERIOR & EXTERIOR GLAZING & LOUVRES ELEVATIONS |
| A08.00 – | WASHROOMS, INTERIOR & MILLWORK |
| A08.00 | WASHROOM PLANS, ELEVATIONS, SCHEDULES |
| A08.01 | INTERIOR ELEVATIONS |
| A08.02 | DORMITORY PLANS & ELEVATIONS |
| A08.03 | MILLWORK PLANS & ELEVATIONS |
| A08.04 | MILLWORK PLANS, ELEVATIONS, & DETAILS |
| A08.05 | KITCHEN MILLWORK PLANS, ELEVATIONS, & DETAILS |
| A08.06 | MILLWORK PLANS, ELEVATIONS, & DETAILS |
| A08.07 | MILLWORK DETAILS - GENERAL NOTES, COUNTER TOPS, TYPICAL DETAILS |
| A08.08 | MILLWORK DETAILS |
| A08.09 | MILLWORK DETAILS |
| A10.00 – | SCHEDULES |
| A10.00 | DOOR & FRAME TYPES, & SCHEDULE |

## STRUCTURAL

| DWG # | DRAWING TITLE |
|---|---|
| S-000 | COVER PAGE |
| S-100 | GENERAL NOTES |
| S-101 | GENERAL NOTES |
| S-102 | TYPICAL DETAILS |
| S-103 | TYPICAL DETAILS |
| S-104 | TYPICAL DETAILS |
| S-105 | TYPICAL DETAILS |
| S-106 | TYPICAL DETAILS |
| S-107 | PROJECT DETAILS |
| S-200 | PARTIAL SITE REINFORCED PAVEMENT KEYPLAN |
| S-201 | FOUNDATION & LEVEL 1 PLAN |
| S-202 | LOW ROOF PLAN |
| S-203 | CLERESTORY ROOF PLAN |
| S-204 | APPARATUS BAY ROOF PLAN |
| S-300 | COLUMN SCHEDULE |
| S-301 | OTHER SCHEDULES |
| S-400 | ELEVATIONS |
| S-500 | FOUNDATION SECTIONS |
| S-510 | ROOF SECTIONS |
| S-511 | ROOF SECTIONS |

## CIVIL

| DWG # | DRAWING TITLE |
|---|---|
| C-01 | SITE GRADING PLAN |
| C-02 | SITE SERVICING PLAN |
| C-03 | CROSS SECTIONS |
| C-04 | EROSION AND SEDIMENT CONTROL PLAN |
| C-05 | GENERAL NOTES AND STANDARD DETAILS |

## MECHANICAL

| DWG # | DRAWING TITLE |
|---|---|
| M-001 | MECHANICAL LEGEND & DRAWING LIST |
| M-101 | MECHANICAL SITE PLAN |
| M-200 | FOUNDATION PLAN - PLUMBING AND DRAINAGE |
| M-201 | LEVEL 01 PLAN - PLUMBING AND DRAINAGE |
| M-202 | ROOF PLAN - PLUMBING AND DRAINAGE |
| M-301 | LEVEL 01 PLAN - VENTILATION |
| M-302 | ROOF PLAN - VENTILATION |
| M-401 | LEVEL 01 PLAN - FIRE PROTECTION |
| M-610 | MECHANICAL EQUIPMENT SCHEDULE |
| M-641 | MECAHNICAL DETAILS I |
| M-642 | MECAHNICAL DETAILS II |
| M-643 | MECAHNICAL DETAILS III |
| M-644 | MECAHNICAL DETAILS IV |
| M-645 | MECAHNICAL DETAILS V |
| M-646 | MECAHNICAL DETAILS VI |
| M-650 | CONTROL SEQUENCES I |
| M-651 | CONTROL SEQUENCES II |
| M-652 | CONTROL SEQUENCES III |

## ELECTRICAL

| DWG # | DRAWING TITLE |
|---|---|
| E-000 | COVER PAGE |
| E-001 | ELECTRICAL LEGEND AND DRAWING LIST |
| E-002 | ELECTRICAL SITE PLAN |
| E-003 | ELECTRICAL SITE PHOTOMETRIC PLAN |
| E-004 | ELECTRICAL SITE DETAILS |
| E-101 | POWER AND SYSTEMS PLAN |
| E-102 | ROOF POWER AND SYSTEMS PLAN |
| E-111 | LIGHTING PLAN |
| E-120 | FIRE ALARM KEY PLAN |
| E-131 | AUXILIARY SYSTEMS PLAN |
| E-501 | ELECTRICAL DETAILS I |
| E-502 | ELECTRICAL DETAILS II |
| E-601 | SINGLE LINE DIAGRAM |
| E-602 | ELECTRICAL PANELBOARD SCHEDULES |
| E-603 | EQUIPMENT WIRING SCHEDULE |
| E-604 | SCHEDULES FOR LIGHTING |

## LANDSCAPING

| DWG # | DRAWING TITLE |
|---|---|
| L100 | TREE PROTECTION PLAN |
| L101 | TREE PROTECTION CHART |
| L200 | LANDSCAPE PLAN |
| L201 | DETAILS |

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SEALS

ONTARIO ASSOCIATION OF ARCHITECTS
DAVID PREMI
LICENCE
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MISSISSAUGA

**CITY OF MISSISSAUGA FIRE STATION 123**

3050 THE COLLEGEWAY MISSISSAUGA, ONTARIO CANADA

| | |
|---|---|
| **SITE PLAN APPLICATION #** | SP 24-3 |
| **DEVELOPMENT TYPE** | EMERGENCY SERVICES |
| **LEGAL DESCRIPTION** | PART OF BLOCK 124 REGISTERED PLAN 43M-745 |
| **APPLICANT INFO** | DAVID PREMI, 25 MAIN ST. W, SUITE 1800, HAMILTON, ON L8P 1H1<br>905.522.0220 |
| **OWNER INFO** | CITY OF MISSISSAUGA, ADRIANA TANTALO, 300 CITY CENTRE DRIVE<br>905.615.3200 X 3395 |

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| NO. | ISSUES/REVISIONS | DATE |
|---|---|---|
| 10 | TENDER | 05/06/24 |
| 9 | SPA RESUBMISSION | 03/12/24 |
| 8 | BP - RESUBMISSION | 02/23/24 |
| 7 | PERMIT | 01/22/24 |
| 6 | CLASS A ESTIMATE | 01/22/24 |
| 5 | 90% CD SUBMISSION | 1/22/24 |
| 4 | FORMAL SPA | 12/05/23 |
| 3 | MINOR VARIANCE APPLICATION | 09/08/23 |
| 2 | PAM 1 RE-SUBMISSION | 09/07/23 |
| 1 | PRELIMINARY ZONING REVIEW RE-SUBMISSION | 08/02/23 |
| 0 | SPA PRE-CONSULTATION | 03/28/23 |

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**CONSULTANT DRAWING LISTS**

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## ABBREVIATION LIST

| ABBREV. | WORD |
|---|---|
| A | |
| & | AND |
| @ | AT |
| A.F.F | ABOVE FINISH FLOOR |
| A/C | AIR CONDITIONING |
| A/V | AIR/VAPOUR |
| AD | AREA DRAIN |
| ADD | ADDENDUM |
| ADJ | ADJACENT |
| ADO | AUTOMATIC DOOR OPENER |
| AL/ALUM | ALUMINUM |
| ALT | ALTERNATE |
| AN | ANODIZED |
| AP | ALUMINUM PANEL |
| APPROX. | APPROXIMATE |
| ARCH | ARCHITECTURAL |
| AS | ACRYLIC STUCCO |
| ATC | ACOUSTIC TILE CEILING |
| AUTO | AUTOMATIC |
| AVC | AUDIO VISUAL CONTROL PANEL |
| B | |
| B.O | BOTTOM OF |
| B/S | BOTH SIDES |
| B/W | BETWEEN |
| BBT | BIO-BASE COMPOSITE TILE |
| BCS | BABY CHANGE STATION |
| BD | BOARD |
| BF | BARRIER FREE |
| BIT | BITUMINOUS |
| BLDG | BUILDING |
| BLK | BLOCK |
| BLKG | BLOCKING |
| BLW | BELOW |
| BM | BENCH MARK |
| BRG | BEARING |
| BS | BLACK-OUT WINDOW SHADE |
| BSMT | BASEMENT |
| BTM | BOTTOM |
| BUR | BUILT UP ROOF |
| C | |
| C.B.U | CONCRETE BLOCK UNIT |
| C/C | CENTRE TO CENTRE |
| C/L | CENTRE LINE |
| C/W | COMPLETE WITH |
| CA ITEM | CASH ALLOWANCE ITEM |
| CAB | CABINET |
| CB | CATCH BASIN |
| CBD | CHALK BOARD |
| CG | CORNER GUARD |
| CH | CLOTHE HOOK |
| CHAN | CHANNEL |
| CJ | CONTROL JOINT |
| CL | CLOSET |
| CLG | CEILING |
| CLR | CLEAR(ANCE) |
| CM | CENTIMETER(S) |
| CMU | CONCRETE MASONRY UNIT |
| CNTR | COUNTER |
| CO | CLEAR OPENING |
| COL | COLUMN |
| COMP | COMPRESS(IBLE) |
| CONC | CONCRETE |
| CONCT | CONCRETE TOPPING |
| CONST | CONSTRUCTION |
| CONT | CONTINUOUS OR CONTINUE |
| CONTR | CONTRACTOR |
| CORR | CORRIDOR |
| CPT | CARPET |
| CPT-T | CARPET TILE |
| CR | CARD READER |
| CRS | COURSE(S) |
| CT | CERAMIC TILE |
| CTB | CERAMIC TILE BASE |
| CU | CUBIC |
| CWB | CEMENT WALL BOARD |
| CWT | CERAMIC WALL TILE |
| D | |
| D | DRYER |
| D.O | DOOR OPERATOR |
| DEMO | DEMOLISH |
| DET | DETAIL |
| DF | DRINKING FOUNTAIN |
| DIA | DIAMETER |
| DIM | DIMENSION |
| DIV | DIVISION |
| DN | DOWN |
| DR | DOOR |
| DRR | DOOR RELEASE |
| DS | DOWNSPOUT |
| DW | DISH WASHER |
| DWG | DRAWING |
| DWR | DRAWER |
| E | |
| E | EAST |
| E.W | EACH WAY |
| EF | EXHAUST FAN |
| EFG | ENTRANCE FLOOR GRILLE |
| EL | ELEVATION |
| ELEC | ELECTRIC(AL) |
| ELEV | ELEVATOR |
| EMER | EMERGENCY |
| ENCL | ENCLOSURE |
| ENTR | ENTRANCE,ENTRY |
| EOS | EDGE OF SLAB |
| EPS | EXPANDED POLYSTYRENE |
| EQ | EQUAL |
| EQUIP | EQUIPMENT |
| ES | ELECTRIC STRIKE |
| EXH | EXHAUST |
| EXIST | EXISTING |
| EXP | EXPOSED |
| EXT | EXTERIOR |
| F | |
| F.A | FIRE ALARM |
| FACP | FIRE ALARM CONTROL PANEL |
| FAPS | FIRE ALARM PULL STATION |
| FD | FLOOR DRAIN |
| FDN | FOUNDATION |
| FE | FIRE EXTINGUISHER |
| FEC | FIRE EXTINGUISHER CABINET |
| FFL | FINISHED FLOOR LEVEL |
| FH | FIRE HYDRANT |
| FHC | FIRE HOSE CABINET |
| FIN | FINISH |
| FIN | FINISHED |
| FL | FLOOR LEVEL |
| FLR | FLOOR |
| FRR | FIRE RESISTANCE RATING |
| FRS | FIRE ROUTE SIGN |
| FT | FEET,FOOT |
| FT | FOOT |
| FTG | FOOTING |
| FUT | FUTURE |
| FVCB | FLUSH VALVE CONTROL BOX |
| G | |
| GA | GAUGE |
| GALV | GALVANIZED |
| GB | GRAB BAR |
| GC | GENERAL CONTRACTOR |
| GFRC | GLASS FIBRE REINFORCED CONCRETE |
| GL | GLASS |
| GL | GLAZING |
| GL BLK | GLASS BLOCK |
| GND | GROUND |

## ABBREVIATION LIST

| ABBREV. | WORD |
|---|---|
| GR | GRADE |
| GRF | GRAPHIC FILM |
| GS | GYPSUM SHEATHING |
| GWB | GYPSUM WALL BOARD |
| GWG | GEORGIAN WIRED GLASS |
| GXT | GYPSUM TEXTURE SPRAY |
| GYP | GYPSUM BOARD |
| H | |
| H.S.P | HOSE STAND PIPE |
| H.V.A.C | HEATING, VENTILATION, AIR CONDITIONING |
| HB | HOSE BIB |
| HD | HAND DRYER |
| HDA | HEAVY DUTY ASPHALT |
| HDW | HARDWARE |
| HLR | HORIZONTAL LIFELINE FALL PROTECTION SYSTEM - ROOF MOUNTED |
| HLW | HORIZONTAL LIFELINE FALL PROTECTION SYSTEM -WALL MOUNTED |
| HM | HOLLOW METAL |
| HORIZ | HORIZONTAL |
| HP | HYDRO POLE |
| HPC | HIGH PERFORMANCE COATING |
| HR | HOSE REEL |
| HSS | HOLLOW STEEL SECTION |
| HT | HEIGHT |
| HTG | HEATING |
| HTR | HEATER |
| HVAC | HEATING/VENTILATION/AIR CONDITIONING |
| HWB | HAND WASH BASIN |
| HWH | HOT WATER HEATER |
| HWT | HOT WATER TANK |
| I | |
| ID | INSIDE DIAMETER |
| IN | INCH,INCHES |
| INCL | INCLUDE(D) |
| INFO | INFORMATION |
| INSUL | INSULATION |
| INT | INTERIOR |
| INV | INVERT |
| J | |
| J.C | JANITOR CLOSET |
| JAN | JANITORIAL |
| JB | JUNCTION BOX |
| JS | JANITORS SINK |
| JT | JOINT |
| K | |
| K.P | KICK PLATE |
| KIT | KITCHEN |
| L | |
| L.F | LINEAR FOOT |
| L.H | LEFT HAND |
| L.P | LOW POINT |
| LAB | LABORATORY |
| LAM | LAMINATE |
| LAV | LAVATORY |
| LDA | LIGHT DUTY ASPHALT |
| LH | LEFT HAND |
| LINO | LINOLEUM |
| LKR | LOCKER |
| LNT | LINTEL |
| LRG | LARGE |
| LS | LIGHT STANDARD |
| LT | LIGHT |
| LVL | LEVEL |
| LVR | LOUVER |
| LVR.O | LOUVER OPENING |
| M | |
| M | METER |
| M | METRE(S) |
| M.O | MASONRY OPENING |
| M.P | METAL PLATE |
| MAINT | MAINTENANCE |
| MAS | MASONRY |
| MAT | MATERIAL(S) |
| MAX | MAXIMUM |
| MECH | MECHANICAL |
| MECH | MECHANIC(AL) |
| MED | MEDIUM |
| MEZZ | MEZZANINE |
| MFG | MANUFACTURING |
| MFR | MANUFACTURER |
| MH | MANHOLE |
| MI | MIRROR |
| MIN | MINIMUM |
| MISC | MISCELLANEOUS |
| MM | MILLIMETRE(S) |
| MO | MASONRY OPENING |
| MOD-BIT | MODIFIED BITUMEN |
| MR | MIRROR |
| MR-T | MIRROR-TILTED |
| MTD | MOUNTED |
| MTL | METAL |
| MW | MICROWAVE |
| MWLLBD(L) | MURPHY WALL BED - LATERAL |
| MWLLBD(V) | MURPHY WALL BED - VERTICAL |
| N | |
| N | NORTH |
| N.S | NON-SLIP |
| N.T.S | NOT TO SCALE |
| ND | NAPKIN DISPOSAL |
| NPWH | NON-FREEZE WALL HYDRANT |
| NIC | NOT IN CONTRACT |
| NO | NUMBER |
| NTS | NOT TO SCALE |
| NV | NAPKIN VENDOR |
| O | |
| O.C. | ON CENTER |
| O.D. | OUTSIDE DIAMETER |
| O/C | ON CENTRE(S) |
| OA | OVERALL |
| OD | OUTSIDE DIAMETER |
| OH | OVERHEAD |
| OPG | OPENING |
| OPP. | OPPOSITE |
| ORN. | ORNAMENTAL |
| OV | OVEN |
| OWSJ | OPEN-WEB STEEL JOIST |
| OZ. | OUNCE |
| P | |
| LB | POUND(S) |
| P.B. | PUSH BUTTON |
| P.C. | PRECAST |
| P.P. | PUSH PLATE |
| P.T.D. | PAPER TOWEL DISPENSER |
| PAR. | PARALLEL |
| PART | PARTITION |
| PCT | PORCELAIN TILE |
| PER. | PERIMETER |
| PERP. | PERPENDICULAR |
| PL | PROPERTY LINE |
| PLAM | PLASTIC LAMINATE |
| PLB | PUSH TO LOCK BUTTON |
| PLF. | PLATFORM |
| PNL | PANEL |
| PNT | PAINT |
| PR. | PAIR |
| PREFAB | PREFABRICATED |
| PREFIN | PREFINISHED |
| PT | PORCELAIN TILE |
| PTD | PAPER TOWEL DISPENSER |

## ABBREVIATION LIST

| ABBREV. | WORD |
|---|---|
| PTL | PUSH TO LOCK |
| PTN | PARTITION |
| PVC | POLYVINYL CHLORIDE |
| Q | |
| QTR. | QUARTER |
| QTY. | QUANTITY |
| R | |
| RAB | ROOF ANCHOR - BOLT AROUND BEAM |
| R | RISER |
| R.D. | ROOF DRAIN |
| R.H. | RIGHT HAND |
| R.O. | ROUGH OPENING |
| R.W. | RAIN WATER |
| RAD | RADIUS |
| RB | RUBBER BASE |
| RCA | REINFORCED CONCRETE APRON |
| RCP | REFLECTED CEILING PLAN |
| RD | ROOF DRAIN |
| RDL | ROOF DRAIN LEADER |
| RECP | RECEPTACLE |
| REF | REFERENCE |
| REQ'D | REQUIRED |
| RES. | RESIDENTIAL |
| REV | REVISION(S) |
| REX | REQUEST TO EXIT |
| RFG | REFRIGERATOR |
| RH | RIGHT HAND |
| RI | RISER |
| RM | ROOM |
| RP | RESIN PANEL |
| RSL | RESILIENT |
| RT | RUBBER TILE |
| RWL | RAIN WATER LEADER |
| S | |
| S | SOUTH |
| S.C.S. | SOLID CORE STEEL |
| S.C.W. | SOLID CORE WOOD |
| S.M. | SHEET METAL |
| S.N.D. | SANITARY NAPKIN DISPENSER |
| S.P. | STEEL PLATE |
| S.S. | STAINLESS STEEL |
| S.SK. | SERVICE SINK |
| S.T.C. | SOUND TRANSMISSION CLASS |
| SAFB | SOUND ATTENUATING FIRE BATTS |
| SAN | SANITARY |
| SC(OT) | SCUPPER - OVERFLOW TYPE |
| SCHED. | SCHEDULE |
| SD | SOAP DISPENSER |
| SECT. | SECTION |
| SER. | SERVICE |
| SH | SHOWER |
| SHL | SHEET LINOLEUM |
| SHLV. | SHELVING |
| SHT | SHEET |
| SHV | SHEET VINYL |
| SIM. | SIMILAR |
| SPEC | SPECIFICATION(S) |
| SPKR | SPEAKER |
| SQ. | SQUARE |
| SQ.FT. | SQUARE FEET, SQUARE FOOT |
| SSUR | SOLID SURFACING (MATERIAL) |
| SSUR(IS) | SOLID SURFACE (MATERIAL) FOR ISLAND COUNTERTOPS |
| SSUR(WS) | SOLID SURFACE (MATERIAL) FOR WINDOW SILLS |
| STD | STANDARD |
| STL. | STEEL |
| STM | STORM |
| STOR | STORAGE |
| STRUCT | STRUCTURAL |
| SUSP | SUSPENDED |
| SVC | STANDPIPE VALVE CABINET |
| SYS. | SYSTEM |
| T | |
| T | TREAD |
| T&G | TONGUE AND GROOVE |
| T.&G. | TONGUE AND GROVE |
| T.T.D. | TOILET TISSUE DISPENSER |
| T.T.H. | TOILET TISSUE HOLDER |
| T/O | TOP OF |
| TB | TOWEL BAR |
| TBD | TACK BOARD |
| TEL | TELEPHONE |
| TEMP. | TEMPERARTURE |
| THR. | THRESHOLD |
| THRU. | THROUGH |
| TOFM | TOILET - FLOOR MOUNTED |
| TOL | TOLERANCE |
| TOWM | TOILET - WALL MOUNTED |
| TP | TELEPHONE POLE |
| TPD | TOILET PAPER DISPENSER |
| TTD | TOILET TISSUE DISPENSER |
| TV | TELEVISION |
| TYP | TYPICAL |
| TZ | TERRAZZO |
| U | |
| U.L.C. | UNDERWRITERS' LABORATORIES CANADA |
| U.N.O. | UNLESS NOTED OTHERWISE |
| U.O.S. | UNLESS OTHERWISE SPECIFIED |
| U.S.S. | UNDER SIDE OF STRUCTURE |
| U/C | UNDERCOUNTER |
| U/S | UNDERSIDE |
| UNFIN. | UNFINISHED |
| URN | URINAL |
| UTP | UTILITY POLE |
| V | |
| V.C.T. | VINYL COMPOSITE TILE |
| V.P. | VENT PIPE |
| VB | VINYL BASE |
| VC | VALVE CABINET |
| VCT | VINYL COMPOSITE TILE |
| VERT | VERTICAL |
| VEST. | VESTIBULE |
| VIF | VERIFY IN FIELD |
| VIF. | VERIFY |
| VT | VINYL TILE |
| W | |
| W | WEST |
| W.C. | WATER CLOSET |
| W.M. | WIRE MESH |
| W.O. | WINDOW OPENING |
| W.W.F. | WELDED WIRE FABRIC |
| W/ | WITH |
| W/O | WITHOUT |
| WBD | WHITE BOARD |
| WC | WATER CLOSET |
| WD | WOOD |
| WM | WASHING MACHINE |
| WO | WINDOW OPENING |
| WPP | WALL PROTECTION PANEL |
| WR | WASHROOM |
| WRB | WEATHER RESISTIVE BARRIER |
| WRGBB | WATER RESISTENT GYPSUM BACKING BOARD |
| WS | WINDOW SHADE |
| WSCB | WATER STATION CONTROL BOX |
| WT | WALL TILE |
| WV | WATER VALVE |
| WWM | WELDED WIRE MESH |
| X | |
| XPS | EXTRUDED POLYSTYRENE |

## TYPICAL DETAILS LIST

| SHEET NUMBER | DETAIL VIEW NAME |
|---|---|
| DIV 0 - GENERAL REQUIREMENTS | |
| FIXTURE MOUNTING HEIGHTS | |
| A00.05 | FMH - CONTROLS MOUNTING HEIGHTS |
| A00.05 | FMH - CT - FIXTURE MOUNTING HEIGHTS - CHANGE TABLES |
| A00.05 | FMH - NOTES |
| A00.05 | FMH - OTHER FIXTURE MOUNTING HEIGHTS |
| A00.05 | FMH - WASHROOM ACCESSORIES MOUNTING HEIGHTS |
| FIXTURE MOUNTING HEIGHTS | |
| A00.06 | FMH - BFS - BARRIER FREE SHOWER DETAILS |
| A00.06 | FMH - NOTES - 2 - EMERGENCY CALL SYSTEM |
| A00.06 | FMH - NOTES Copy 1 |
| A00.06 | FMH - W - UNIVERSAL WASHROOMS |
| FIXTURE MOUNTING HEIGHTS | |
| A01.00 | FMH - PLAN OF ADO INSTALLATION REQUIREMENTS |
| DIV 2 - SITE CONSTRUCTION | |
| DEMO SITE ITEMS | |
| A02.02 | DS0-1 - CBST DETAIL |
| A02.02 | DS0-1 - MUD MAT |
| FENCING | |
| A02.02 | FN-1 - CONSTRUCTION FENCING |
| SIGNAGE | |
| A02.02 | MS-4 - PROJECT SIGN |
| CONCRETE SLAB JOINTS | |
| A02.05 | CSP - CONCRETE SIDEWALK PAVEMENT |
| CURB & RAMP DETAILS | |
| A02.05 | CRD-1 - BARRIER CURB - ADJACENT TO LANDSCAPED AREAS |
| A02.05 | CRD-2 - BARRIER CURB - ADJACENT TO SIDEWALK / HARD SURFACES |
| A02.05 | CRD-3 - BARRIER CURB - DEPRESSED ENTRANCE CURB |
| PARKING | |
| A02.05 | PRK-1 - AODA PARKING SPACE |
| A02.05 | PRK-3 - AODA RETURN CURB RAMP DETAIL |
| SIGNAGE | |
| A02.05 | MS-1 - SIGNS FIXED POST |
| A02.05 | MS-3 - BF PARKING SIGNAGE |
| A02.05 | MS-3 - MUNICIPAL SIGNAGE |
| TACKTILE INDICATORS | |
| A02.05 | TTR - SIDEWALKS TACTILE HAZARD INDICATOR TILE |
| BOLLARDS | |
| A02.06 | BO-1 - TYPICAL BOLLARD DETAILS |
| FLAGPOLES | |
| A02.06 | FP-1 - FLAG POLE BASE |
| GARBAGE ENCLOSURE | |
| A02.06 | GEG-1 - GARBAGE ENCLOSURE GATE DETAIL - ELEVATION + SECTION |
| A02.06 | GEG-1 - GARBAGE ENCLOSURE GATE DETAIL - PLAN |
| LIGHTING | |
| A02.06 | LSB-HIGH - LIGHT STANDARD HIGH BASE DETAIL |
| A02.06 | LSB-LOW - LIGHT STANDARD LOW BASE DETAIL |
| DIV 3 - CONCRETE | |
| CONCRETE SLAB JOINTS | |
| A03.03 | CJ - TYPICAL CONCRETE JOINTS |
| CONCRETE SURFACE | |
| A03.03 | CAC-1 - CONCRETE TRANSITION APRON TYPICAL (CONCRETE) |
| EDGE CONDITION | |
| A03.03 | SE-1 - SLAB EDGE DETAIL |
| FOUNDATION | |
| A03.03 | FS-1 - FROST SLAB DETAIL |
| DIV 4 - MASONRY | |
| MASONRY CONNECTOR | |
| A06.01 | MC-1 - MASONRY CONNECTOR - FERO FAST THERMAL BRACKET |
| A06.01 | MC-2 - MASONRY CONNECTOR - FERO THERMAL TIE - SLOTTED RAP-TIE |
| DIV 5 - METALS | |
| FOUR FOLD DOOR | |
| A03.04 | FFD-2 - FOUR FOLD DOOR JAMB DETAIL |
| ACCESS LADER | |
| A03.14 | AL-3 - INTERIOR ROOF ACCESS LADDER DETAIL |
| A03.14 | AL-5 - EXTERIOR ROOF ACCESS LADDER DETAIL C/W PLATFORM |
| A03.14 | AL-6 - EXTERIOR ROOF ACCESS LADDER DETAIL C/W PLATFORM - CAGE |
| DIV 6 - WOOD & PLASTICS | |
| CW - COUNTERTOP DETAILS | |
| A08.07 | CT - SOLID SURFACING COUNTER TOP |
| A08.07 | CT - STAINLESS STEEL COUNTER TOP |
| CW - GENERAL BLOCKING REQUIREMENTS | |
| A08.07 | CW - CASEWORK BLOCKING REQUIREMENTS |
| CW - PANELING | |
| A08.07 | CW - WOOD PANELING |
| CW - FULL HEIGHT CABINETS | |
| A08.08 | CW - FH - 2 MCRW- 1DR - 1DWR - 1 UPPER |
| A08.08 | CW - FH - 2D |
| A08.08 | CW - FH - 2D - W.LOCK |
| A08.08 | CW - FH - FRIDGE |
| A08.08 | CW - FH - FRIDGE - PNL |
| A08.08 | CW - FH - OPEN LINEN SHELF |
| A08.08 | CW - FH - OV - RNGHD - 1 UPPER |
| CW - MURPHY BED | |
| A08.08 | CW - MRBED - CAB - LATERAL |
| CW - UPPER CABIENTS | |
| A08.08 | CW - UPPER - 1DR 1SHLF - FULL OVERLAY |
| A08.08 | CW - UPPER - OPEN SHLF - FULL OVERLAY |
| CW - BASE CABIENTS | |
| A08.09 | CW - BASE - 1 DR 1 DWR - FULL OVERLAY |
| A08.09 | CW - BASE - 1 DR - FULL OVERLAY |
| A08.09 | CW - BASE - 2 DR 1 DWR UNDER-MOUNT SINK - FULL OVERLAY |
| A08.09 | CW - BASE - 4 DWR EQ. - FULL OVERLAY |
| A08.09 | CW - BASE - DSHWSHR |
| A08.09 | CW - BASE - ISLAND - 1DR 1 DWR - DBL SIDED |
| A08.09 | CW - BASE - WORKSURFACE 3 DWR |
| CW - FULL HEIGHT CABINETS | |
| A08.09 | CW - FH - 1DR CLOSET W/OPEN SHLF BASE |
| A08.09 | CW - FH - 2DR 1SHLF CLOSET - FULL OVERLAY |
| DIV 7 - THERMAL & MOISTURE PROTECTION | |
| FIRE & SMOKE PROTECTION | |
| A01.00 | FD-1 - TYPICAL FIRE DAMPER INSTALLATION |
| A01.00 | TOW FIRE RATED - TOP OF MASONRY DETAIL |
| ROOF & WALL ACCESSORIES | |
| A03.07 | RD-1- ROOF DRAIN SUMP |
| A03.07 | RD-2-ROOF CURB DETAIL |
| A03.07 | RD-3-DOG HOUSE ROOF DETAIL CONDUIT/PIPING PENETRATIONS |
| ROOF ACCESSORIES | |
| A03.07 | RD-4-ROOF HATCH DETAIL |
| WEATHER BARRIERS | |
| A06.01 | ZS-1 - ZIP SHEATHING DETAILS |
| A06.01 | ZS-1 - ZIP SHEATHING TAPE DETAILS |
| DIV 8 - OPENINGS | |
| DOORS | |
| A10.00 | DR-1 - DOOR PANEL TYPES |
| A10.00 | DR-2 - JAMB TYPES |
| A10.00 | DR-3 - FRAME TYPES |
| A10.00 | DR-4 - FIRE DOOR DETAILS |
| A10.00 | DR-5 - TYPICAL DOOR INSTALLATION DETAILS |
| A10.00 | DR-6 - DOOR HARDWARE HEIGHTS |
| DIV 9 - FINISHES | |
| CEILING DETAILS | |
| A03.11 | CTRANS-1 - TYPE 'A' - GYPSUM BOARD BULKHEAD (GB-B) TO ADJACENT CEILINGS |
| A03.11 | CTRANS-3 - TYP - GYPSUM BOARD CEILING TO PARTITION WALL |
| A03.11 | CTRANS-5 - TYP - ACT TO PARTITION |
| A03.11 | RCP - TYP - LAYOUT |
| FLOORING DETAILS | |
| A03.12 | FT-1 - SCHL - RENO-TK - LVT-CT |
| A03.12 | FT-2 - SCHL - RENO-U - CONC-CT |
| A03.12 | FT-3 - SCHL - RENO-T - RUB-CT |
| WALL BASES | |
| A03.12 | WB-1 - CT |
| A03.12 | WB-2 - WD |
| A03.12 | WB-3 - RUB |
| FLOOR PROTECTION | |
| A03.14 | CBFP-1 -CARDBOARD TEMPORARY FLOOR PROTECTION |
| DIV 10 - SPECIALTIES | |
| OTHER | |
| A03.03 | TD-1 - TRENCH DRAIN DETAIL |
| DIV 11 - EQUIPMENT | |
| EV CHARGING STATION | |
| A02.05 | VCS-1 - VEHICLE CHARGING STATION c/w WHEEL STOP |
| GENERATOR | |
| A02.06 | EGD-1 - EXTERIOR GENERATOR DETAIL |
| WASHER EXTRACTOR | |
| A03.03 | GW65-1 - WASHER EXTRACTOR DETAIL 65lb |
| A03.03 | WETD-1 - WASHER EXTRACTOR TRENCH DETAIL |
| ROOF ACCESSORIES | |
| A03.10 | SPR-1 - SOLAR PANEL RACK |
| ELECTRICAL | |
| A03.14 | TV-1 - ELECTRICAL - TV ON DRYWALL PARTITION |
| DIV 12 - FURNISHINGS | |
| SILLS | |
| A03.04 | WS-1-SOLID SURFACE SILL |
| WINDOW SHADES | |
| A03.11 | WS-1 WINDOW SHADES |
| WINDOW SHADES | |
| A06.02 | WSH - WINDOW SHADE HOOD DETAILS |
| A06.02 | WSH - WINDOW SHADE HOOD ELEVATION |
| XX_LEGENDS | |
| A03.10 | GENERAL NOTES - P/V |

## ONTARIO BUILDING CODE DATA MATRIX

### PART 3 - FIRE PROTECTION, OCCUPANT SAFETY AND ACCESSIBILITY

OBC REFERENCE [1]

| | | | | | |
|---|---|---|---|---|---|
| Name of Practice | DPAI Architecture Inc. | Name of Project | City of Mississauga Fire Station 123 | | |
| Address 1 | 25 Main Street West, Suite 1800 | Location/Address | The Collegeway | | |
| Address 2 | Hamilton, ON L8P 1H1 | Date | March 27, 2024 | | |
| Contact | Sebastian Lubczynski | | | | |

| | | | | | | |
|---|---|---|---|---|---|---|
| 3.00 BUILDING CODE VERSION | O.Reg. 332/12 | | LAST AMENDMENT O.Reg. 762/20 | | | |
| 3.01 PROJECT TYPE | New Construction | | | | | [A] 1.1.2. |
| 3.02 MAJOR OCCUPANCY CLASSIFICATION | OCCUPANCY | | | USE | | 3.1.2.1.(1) |
| | D | Business & Personal Services | | Fire station crew area | | |
| | F3 | Low Hazard Industrial | | Storage Garage | | |
| 3.03 SUPERIMPOSED MAJOR OCCUPANCIES | NO | | | | | 3.2.2.7. |
| 3.04 BUILDING AREA ($m^2$) | DESCRIPTION | | EXISTING | NEW | TOTAL | [A] 1.4.1.2. |
| | Group D | | N/A | 550 | 550 | |
| | Group F3 | | N/A | 474 | 474 | |
| | TOTAL | | 0 | 1,024 | 1,024 | |
| 3.05 GROSS AREA ($m^2$) | DESCRIPTION | | EXISTING | NEW | TOTAL | [A] 1.4.1.2. |
| | Group D | | N/A | 550 | 550 | |
| | Group F3 | | N/A | 474 | 474 | |
| | TOTAL | | 0 | 1,024 | 1,024 | |
| 3.06 MEZZANINE AREA ($m^2$) | DESCRIPTION | | EXISTING | NEW | TOTAL | 3.2.1.1. |
| | N/A | | 0 | 0 | 0 | |
| | TOTAL | | 0 | 0 | 0 | |
| 3.07 BUILDING HEIGHT | STOREYS ABOVE GRADE | STOREYS BELOW GRADE | (m) ABOVE GRADE | | | [A] 1.4.1.2. & 3.2.1.1. |
| | 1 | N/A | 7.80 | | | |
| 3.08 HIGH BUILDING | No | | | | | 3.2.6 |
| 3.09 NUMBER OF STREETS/ FIREFIGHTER ACCESS | 1 | STREET(S) | | | | 3.2.2.10. & 3.2.5. |
| 3.10 BUILDING CLASSIFICATION (SIZE AND CONSTRUCTION RELATIVE TO OCCUPANCY) | 3.2.2.56. | Group D, up to 2 Storeys, Sprinklered | | | | 3.2.2.20-83. |
| | 3.2.2.79. | Group F, Division 3, up to 2 Storeys, Sprinklered | | | | |
| 3.11 SPRINKLER SYSTEM | Required | PROVIDED: | Entire Building | | | 3.2.1.5. & |
| | DESCRIBE | Entire building shall be sprinklered in accordance to 3.10 Building Classification | | | | 3.2.2.17. |
| 3.12 STANDPIPE SYSTEM | Not Required | | | | | 3.2.9. |
| 3.13 FIRE ALARM SYSTEM | Required | | TYPE PROVIDED | Single Stage | | 3.2.4. |
| 3.14 WATER SERVICE/ SUPPLY IS ADEQUATE | Yes | | | | | |
| 3.15 CONSTRUCTION TYPE | RESTRICTIONS | Combustible Permitted | | | | 3.2.2.2.20.-83. |
| | ACTUAL | Combination | HEAVY TIMBER CONSTRUCTION | | N/A | 3.2.1.4. |
| 3.16 IMPORTANCE CATEGORY | Post-Disaster | | - | | | 4.1.2.1.(3), T4.1.2.1.B. |
| 3.17 SEISMIC HAZARD INDEX (IE Fa Sa (0.2... | 0.33 | Seismic Design Not Required for Table 4.1.8.18. Items 6 to 21 | | | | 4.1.8.18.(1) |
| 3.18 REASON FOR REQUIREMENT | IMPORTANCE CATEGORY | | | | | 4.1.8.18.(2) |
| 3.19 OCCUPANT LOAD | FLOOR LEVEL / AREA | | OCCUPANCY TYPE | BASED ON | OCCUPANT LOAD (PERSONS) | 3.1.17. |
| | Fire Station | | Personal Services | Design of space | 17 | |
| | TOTAL | | | | 17 | |
| 3.20 HAZARDOUS SUBSTANCES | No | | | | | 3.3.1.2. & 3.3.1.19. |
| 3.21 REQUIRED FIRE SEPARATIONS | RATING | LOCATIONS | | | | |
| | 1.5HR | Between Group D and F3 Garage | | | | |
| | 1HR | Electrical Room | | | | |
| | 1HR | Outdoor Storage Room | | | | |
| | 1HR | Sprinkler Room | | | | |

| 3.22 REQUIRED FIRE RESISTANCE RATINGS | HORIZONTAL ASSEMBLY | RATING (H) | SUPPORTING ASSEMBLY (H) | NONCOMBUSTIBLE IN LIEU OF RATING? | 3.2.2.20.-83, 3.2.1.4. |
|---|---|---|---|---|---|
| | FLOORS OVER BSMT | N/A | N/A | YES | |
| | FLOORS | 45min | 45min | YES | |
| | MEZZANINE | N/A | N/A | YES | |
| | ROOF | N/A | N/A | YES | |

| 3.23 SPATIAL SEPARATION | WALL | EBF AREA (m2) | U.P.O AREA (m2) | L.D. (m) | L/H OR H/L | Permitted Max % of Openings | Proposed % of Openings | 3.2.3. |
|---|---|---|---|---|---|---|---|---|
| | North | 207.00 | 99.00 | 21.50 | N/A | 100.00% | 47.83% | |
| | East | 271.00 | 7.00 | 1.20 | N/A | 14.00% | 2.58% | |
| | South | 189.00 | 90.00 | 25.00 | N/A | 100.00% | 23.88% | |
| | West | 268.00 | 64.00 | 18.60 | N/A | 100.00% | 23.88% | |

| | WALL | REQUIRED FRR (H) | LISTED DESIGN OR DESCRIPTION | CONSTRUCTION TYPE | CLADDING TYPE |
|---|---|---|---|---|---|
| | North | Not Required | N/A | Combustible Permitted | Combustible Permitted |
| | East | 1 Hour | ULC-S101 DES. NO W456 | Combustible Permitted | Noncombustible Req'd |
| | South | Not Required | N/A | Combustible Permitted | Combustible Permitted |
| | West | Not Required | N/A | Combustible Permitted | Combustible Permitted |

| | | | | | |
|---|---|---|---|---|---|
| 3.24 BARRIER-FREE DESIGN | Yes | | | | 3.8. |
| 3.25 BARRIER-FREE ENTRANCES | No. OF ENTRANCES PEDESTRIAN ENTRANCES | | 2 | | 3.8.1.2 (1) |
| | No. OF ENTRANCES REQ'D TO BE BARRIER FREE | | 1 | | 3.8.1.2 (1) |
| 3.26 BUILDING EXISTS | LEVEL | REQUIRED | PROVIDED | | 3.4.2.1 |
| | 1 | 4 | 5 | | |
| 3.27 MAX TRAVEL DISTANCE TO EXIT | OCCUPANCY | REQUIRED | PROVIDED | | 3.4.2.5 |
| | Personal Services | 40 | 15.5 | | |
| | Low Hazard Industrial Storage Garage | 60 | 22.8 | | |

| 3.28 PLUMBING FIXTURE REQUIREMENTS | RATIO: | MALE:FEMALE = 50:50 EXCEPT AS NOTED OTHERWISE | | | | 3.7.4. |
|---|---|---|---|---|---|---|
| | FLOOR LEVEL/AREA | OCCUPANT LOAD | OBC SENTENCE | FIXTURES REQUIRED | FIXTURES PROVIDED | |
| | Fire Station | 17 | 3.7.4.7.(1) | 2 | 5 | |

| 3.29 ENERGY EFFICIENCY | COMPLIANCE PATH: | Prescriptive | | | |
|---|---|---|---|---|---|
| | CLIMATIC ZONE: | 5 | | | |
| 3.30 BUILDING ENVELOPE REQUIREMENTS | DESCRIPTION | | INSUL. REQUIRED | INSUL. PROVIDED | SB-10 Div 3 |
| | ROOF | | | | |
| | INSULATION ENITERLY ABOVE DECK | | 35ci | 60ci | |
| | WALLS, ABOVE GRADE | | | | |
| | MASS | | R-17ci | R-34ci | |
| | STEEL FRAMED | | R-13 + R12 ci | R-34ci | |
| | WALLS, BELOW GRADE | | | | |
| | BELOW GRADE WALL | | R-15ci | R-15ci | |
| | FLOORS | | | | |
| | SLAB-ON-GRADE FLOORS | | | | |
| | UNHEATED | | R-15 for 48" | R-15 Full Slab | |
| 3.30 NOTES | | | | | |

## ONTARIO BUILDING CODE DATA MATRIX

### SEISMIC DESIGN REQUIREMENTS FOR NON-STRUCTURAL ELEMENTS (CATEGORIES 6 TO 22 TABLE 4.1.8.18)

| | | | | | OBC REFERENCE |
|---|---|---|---|---|---|
| 01 | IMPORTANCE CATEGORY | Post-Disaster | - | | 4.1.2.1.(3). & 5.2.2.1.(2) |
| 02 | SITE CLASS | C | | | |
| 03 | 5% SPECTRAL RESPONSE ACCELERATION Sa(0.2) | 0.219 | | | 4.1.8.4.(1) & SB-1, T.1.2. |
| 04 | EARTHQUAKE IMPORTANCE FACTOR (IE) | 1.50 | | | T.4.1.8.5. |
| 05 | PEAK GROUND ACCELERATION (PGA) | 0.14 | | | 4.1.8.4.(1) & SB-1 T.1.2 |
| 06 | PGA FACTOR | 0.8 | | | 4.1.8.4.(4)(a)(b) |
| 07 | PGA REFERENCE (PGAref) | 0.1128 | | | 4.1.8.4.(4) |
| 08 | SITE COEFFICIENT (Fa = F(0.2)) | 1.00 | | | 4.1.8.4.(7) & T.4.1.8.4.B |
| 09 | SEISMIC HAZARD INDEX IEFaSa(0.2) = | 0.33 | 0.35 OR GREATER? | NO | 4.1.8.18.(1) |
| | | | LESS THAN 0.35? | YES | 4.1.8.18.(2) |
| | SEISMIC DESIGN REQUIRED FOR CATEGORIES 6 TO 22, TABLE 4.1.8.18.? | | Required | | 4.1.8.18.(2) |
| | REASONING FOR REQUIREMENT: | | IMPORTANCE CATEGORY | | |

## GENERAL NOTES - PROJECT

1. *REVIEW OF CONTRACT DOCUMENTS*
   1. DRAWINGS SHALL BE READ IN CONJUNCTION WITH THE RESPECTIVE SPECIFICATIONS INCLUDED IN THE BID DOCUMENTS. CONTRACTOR SHALL REPORT ANY DISCREPANCIES BETWEEN THE DRAWINGS AND SPECIFICATIONS DURING THE BIDDING PERIOD. ALLOWANCES WILL NOT BE MADE FOR ERRORS IN BIDS AS A RESULT OF FAILURE TO REVIEW DISCREPANCIES BETWEEN THE DRAWINGS AND SPECIFICATIONS
   2. GENERAL CONTRACTOR AND SUBTRADES SHALL READ ALL THE GENERAL NOTES WITHIN THE CONTRACT DOCUMENTS. GENERAL NOTES CONTAIN INFORMATION THAT IS ESSENTIAL TO UNDERSTANDING AND EXECUTION OF THE SCOPE OF WORK.
   3. IT IS STRONGLY ADVISED THAT THE CONTRACTOR ENSURE ALL SUBTRADES REFER AND COORDINATE WITH A-SERIES DRAWINGS IN THE

## ASSEMBLIES - LANDSCAPING

### L-LSS

| TYPE | LANDSCAPING BED |
|---|---|

PLANTING BED
- REFER TO LANDSCAPE DRAWINGS FOR DETAILS

### L-RR

| TYPE | RIVER ROCK BED |
|---|---|

100mm RIVER ROCK
- NON-WOVEN GEOTEXTILE
89mm c/w ALUMINUM EDGING AROUND PERIMETER
- REFER TO LANDSCAPE PLANS

### L-SOD

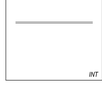
| TYPE | SOD - REFER TO LANDSCAPE DRAWINGS |
|---|---|

- SOD
150mm TOP SOIL

## ASSEMBLIES - SOFFITS

### STG-1

| TYPE | R-VALUE | | FIRE RATING |
|---|---|---|---|
| FLAT | R-VALUE CI MIN. | | SRI VALUE |
| | ULC / OBC | | |



EXT INT

EXTERIOR
125mm PREFINISHED V-GROVE TONGUE & GROVE METAL SOFFIT C/W
- ENGINEERED SUPPORT SYSTEM (DEPTH VARIES)
- WOODGRAIN FINISH
BASIS OF DESIGN - LONGBOARD TONGUE & GROVE PLANKS
COLOR AND GRAIN FINISH SHALL BE SELECTED BY ARCHITECT FROM FULL RANGE

INTERIOR

### AHP-1

| TYPE | R-VALUE | | FIRE RATING |
|---|---|---|---|
| FLAT | R-VALUE CI MIN. | | SRI VALUE |
| | ULC / OBC | | |

EXT INT

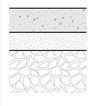
EXTERIOR
ALUMINUM HONEYCOMB PANEL CLADDING SYSTEM
MOUNTED TO THERMALLY BROKEN SUPPORTING SUB-FRAMING
(REFER TO GENERAL NOTES)

INTERIOR

## ASSEMBLIES - PAVEMENT

### P-RCA

| TYPE | REINFORCED CONCRETE APRON |
|---|---|



200mm REINFORCED CONCRETE SLAB ON GRADE
- - REINFORCING - REFER TO STRUCTURAL
50mm RIGID INSULATION - HIGH DENSITY
150mm COMPACTED GRANULAR 'A'
350mm COMPACTED GRANULAR 'B' TYPE II
- REFER TO GEOTECHNICAL REPORT FOR SUBGRADE COMPOSITION AND DEPTHS

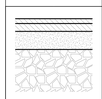
### P-TA-1

| TYPE | REINFORCED CONCRETE TRANSITION APRON |
|---|---|

200mm CONCRETE
- REINFORCING - REFER TO STRUCTURAL
GRANULAR BASE COURSES (A & B) SEE NOTE BELOW
*SLOPE APRON 1 : 10 MAX (150MM OVER 1800MM)
NOTE: GRANULAR BASE COURSES TO MATCH
ADJACENT CONCRETE BASE COURSES (A & B)

### P-HDA

| TYPE | HEAVY DUTY ASPHALT |
|---|---|



40mm ASPHALTIC CONCRETE WEARING COURSE OPSS HL 3 OR HL 3A
65mm BINDER COURSE OPSS HL 8
150mm BASE COURSE OPSS GRANULAR A
350mm SUB-BASE COURSE OPSS GRANULAR B TYPE II
- REFER TO GEOTECHNICAL REPORT FOR SUBGRADE COMPOSITION AND DEPTHS

### P-LDA

| TYPE | LIGHT DUTY ASPHALT |
|---|---|

40mm ASPHALTIC CONCRETE WEARING COURSE OPSS HL 3 OR HL 3A
50mm BINDER COURSE OPSS HL 8
150mm BASE COURSE OPSS GRANULAR A
250mm SUB-BASE COURSE OPSS GRANULAR B TYPE II
- REFER TO DETAIL 2000 - PAV-1 AND GEOTECHNICAL REPORT FOR SUBGRADE COMPOSITION AND DEPTHS

### P-SW-1

| TYPE | SIDEWALKS - GENERAL |
|---|---|

150mm CONCRETE - BROOM FINISH
6mil POLYETHYLENE VAPOUR BARRIER
150mm GRANULAR 'A' COMPACTED

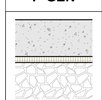
### P-SW-2

| TYPE | SIDEWALKS AT DRIVEWAYS & ENTRANCES |
|---|---|

200mm CONCRETE - BROOM FINISH
6mil. POLYETHYLENE VAPOUR BARRIER
150mm GRANULAR 'A' COMPACTED
* PLACE WHERE INDICATED AND AT DRIVEWAYS AND ENTRANCES

### P-GEN

| TYPE | REINFORCED CONCRETE GENERATOR PAD |
|---|---|



300mm REINFORCED CONCRETE SLAB ON GRADE
- REINFORCING - 20M EPOXY COATED BARS @300MM T&B E.W.
50mm RIGID INSULATION EXTENDING 1200 BEYOND PAD EACH SIDE (DOW
- HL LOAD 100)
300mm COMPACTED GRANULAR 'B' TYPE II

### P-PCC

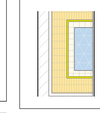
| TYPE | CONCRETE CURBS |
|---|---|

400mm HIGH CONCRETE CURB
* COORINDATE WITH CIVIL DRAWINGS FOR CURBS BEYOND 400mm HEIGH

## ASSEMBLIES - WALL EXTERIOR

### X-S-1

| WIDTH | R-VALUE | 64 | FIRE RATING | N/A |
|---|---|---|---|---|
| 465 | R-VALUE CI MIN. | R34 | STC RATING | N/A |
| | ULC / OBC | N/A | | |



EXT INT

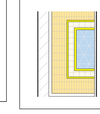
EXTERIOR
90mm BRICK MASONRY c/w THERMAL CONNECTORS
25mm CONTINUOUS AIR SPACE
125mm MINERAL WOOL INSULATION - R21.5
- A/V BARRIER MEMBRANE TAPE FOR ZIP SHEATHING
50mm EXTERIOR ZIP SHEATHING C/W 50mm POLYISO RIGID INSUL. R-12
152mm WIND LOAD BEARING STEEL STUDS @ 400mm O.C., C/W
152mm MINERAL WOOL INSULATION (WIDTH OF STUD)
- VAPOUR BARRIER MEMBRANE
16mm GYPSUM WALL BOARD

INTERIOR

*ASSEMBLY SHALL BE BUILT AS A FIRE SEPERATION WHERE NOTED IN PLANS*

### X-S-2

| WIDTH | R-VALUE | 64 | FIRE RATING | 1HR |
|---|---|---|---|---|
| 484 | R-VALUE CI MIN. | R34 | STC RATING | N/A |
| | ULC / OBC | ULC-S101 DES. NO W456 | | |



EXT INT

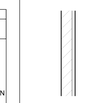
EXTERIOR
90mm BRICK MASONRY c/w THERMAL CONNECTORS
25mm CONTINUOUS AIR SPACE
125mm MINERAL WOOL INSULATION - R21.5
- A/V BARRIER MEMBRANE TAPE FOR ZIP SHEATHING
50mm EXTERIOR ZIP SHEATHING C/W 50mm POLYISO RIGID INSUL. R-12
16mm DENSGLASS FIREGUARD GYPSUM SHEATHING (DGG)
152mm WIND LOAD BEARING STEEL STUDS @ 400mm O.C., C/W
152mm MINERAL WOOL INSULATION (WIDTH OF STUD)
- VAPOUR BARRIER MEMBRANE
16mm TYPE 'X' GYPSUM WALL BOARD

INTERIOR

*ASSEMBLY SHALL BE BUILT AS A FIRE SEPERATION WHERE NOTED IN PLANS*

### X-S-1A

| WIDTH | R-VALUE | 6 | FIRE RATING | |
|---|---|---|---|---|
| 115 | R-VALUE CI MIN. | R21.5 | STC RATING | N/A |
| | ULC / OBC | | | |



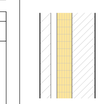
EXT INT

EXTERIOR
90mm BRICK MASONRY
50mm CONTINUOUS AIR SPACE

INTERIOR

### X-B-1

| WIDTH | R-VALUE | 34 | FIRE RATING | |
|---|---|---|---|---|
| 455 | R-VALUE CI MIN. | R21.5 | STC RATING | N/A |
| | ULC / OBC | | | |



EXT INT

EXTERIOR
90mm BRICK MASONRY
50mm CONTINUOUS AIR SPACE
125mm MINERAL WOOL INSULATION - R21.5
- SELF-ADHERED AIR/VAPOUR BARRIER MEMBRANE
190mm CONCRETE MASONRY UNITS

INTERIOR

### BIPV

| WIDTH | R-VALUE | 8 | FIRE RATING | |
|---|---|---|---|---|
| 38 | R-VALUE CI MIN. | | STC RATING | N/A |
| | ULC / OBC | | | |

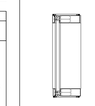
EXT INT

EXTERIOR
BIPV FACING ON ALUMINUM HONEYCOMB BACKING
MOUNTED TO THERMALLY BROKEN SUPPORTING SUB-FRAMING
(REFER TO GENERAL NOTES)

INTERIOR

### CW-3

| WIDTH | R-VALUE | | FIRE RATING | |
|---|---|---|---|---|
| | R-VALUE CI MIN. | | STC RATING | N/A |
| | ULC / OBC | | | |



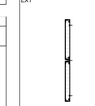
EXT INT

EXTERIOR
ALUMINUM FRAMED GLAZING SYSTEM
ALUMICOR THERMAWALL 2600
FRAME DEPTH OF 8" (152.4mm) FOR 2-1/2" (63.5mm)
C/W TRIPLE GLAZED IGU

INTERIOR

### AHP-1

| WIDTH | R-VALUE | N/A | FIRE RATING | |
|---|---|---|---|---|
| | R-VALUE CI MIN. | N/A | STC RATING | N/A |
| | ULC / OBC | | | |



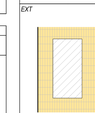
EXT INT

EXTERIOR
ALUMINUM HONEYCOMB PANEL CLADDING SYSTEM
MOUNTED TO THERMALLY BROKEN SUPPORTING SUB-FRAMING
(REFER TO GENERAL NOTES)

INTERIOR

### X-B-7

| WIDTH | R-VALUE | N/A | FIRE RATING | |
|---|---|---|---|---|
| 490 | R-VALUE CI MIN. | N/A | STC RATING | N/A |
| | ULC / OBC | | | |



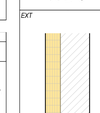
EXT INT

EXTERIOR
VARIES Z-GIRTS @ 600mm O.C., (HOR.)
125mm MINERAL WOOL INSULATION - R21.5
- AIR/VAPOUR BARRIER MEMBRANE
240mm CONCRETE MASONRY UNITS
- AIR/VAPOUR BARRIER MEMBRANE
125mm MINERAL WOOL INSULATION - R21.5
VARIES Z-GIRTS @ 600mm O.C., (HOR.)

INTERIOR

### X-B-6

| WIDTH | R-VALUE | 23 | FIRE RATING | |
|---|---|---|---|---|
| 365 | R-VALUE CI MIN. | R21.5 | STC RATING | N/A |
| | ULC / OBC | | | |



EXT INT

EXTERIOR
VARIES Z-GIRTS @ 600mm O.C., (HOR.)
125mm MINERAL WOOL INSULATION - R21.5
- SELF-ADHERED AIR/VAPOUR BARRIER MEMBRANE
240mm CONCRETE MASONRY UNITS

INTERIOR

### X-B-8

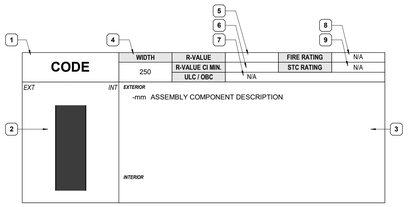
| WIDTH | R-VALUE | 23 | FIRE RATING | |
|---|---|---|---|---|
| 415 | R-VALUE CI MIN. | R21.5 | STC RATING | N/A |
| | ULC / OBC | | | |

EXT INT

EXTERIOR
VARIES Z-GIRTS @ 600mm O.C., (HOR.)
125mm MINERAL WOOL INSULATION - R21.5
- SELF-ADHERED AIR/VAPOUR BARRIER MEMBRANE
290mm CONCRETE MASONRY UNITS

INTERIOR

## ASSEMBLIES TYPE CODIFICATION




### CODE

| WIDTH | R-VALUE | | FIRE RATING | N/A |
|---|---|---|---|---|
| 250 | R-VALUE CI MIN. | | STC RATING | N/A |
| | ULC / OBC | N/A | | |

EXT INT

EXTERIOR
-mm ASSEMBLY COMPONENT DESCRIPTION

INTERIOR

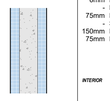
**GENERAL NOTES:**

1. ASSEMBLY CODE ASSIGNED TO ALL ASSEMBLIES.
2. INDICATIVE ASSEMBLY SECTION.
3. ASSEMBLY DESCRIPTION, LISTED WITH THICKNESS AND DESCRIPTION OF ASSEMBLY LAYERS, FROM EXTERIOR FACE TO INTERIOR FACE OF ASSEMBLY.
4. ASSEMBLY OVERALL WIDTH.
5. THE R-VALUES GIVEN INDICATES THE CLEAR-FIELD EFFECTIVE VALUES. THESE ARE THE MINIMUM REQUIRED TO MEET THE PASSIVEHOUSE TARGETS. NOTE THAT THE EFFECTIVE R-VALUE CAN BE LESS THAN THE NOMINAL INSULATION R-VALUE BASED ON THERMAL BRIDGING ASSUMPTIONS. IT COULD ALSO BE MORE, AS IT INCLUDES THERMAL PERFORMANCE OF SUBSEQUENT LAYERS (I.E. AIR CAVITIES, DRYWALL, ETC.).
6. MINIMUM R-VALUE OF THE CONTINUOUS INSULATION AS REQUIRED BY OBC.
7. ULC LISTING OR OBC CODE REFERENCE FOR SPECIFIED ASSEMBLIES.
8. REQUIRED FIRE-RESISTANCE RATING OR OVERALL ASSEMBLY.
9. REQUIRED ACOUSTIC PERFORMANCE RATING OF OVERALL ASSEMBLY.

## ASSEMBLIES - WALL BELOW GRADE

### F150-i2

| WIDTH | R-VALUE | 30 | FIRE RATING | |
|---|---|---|---|---|
| 300 | R-VALUE CI MIN. | 30 | STC RATING | N/A |
| | ULC / OBC | | | |



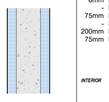
EXT INT

EXTERIOR
6mm PROTECTION BOARD (TO 300 BELOW GRADE) c/w CONCRETE
- PARGING FOR EXPOSED AREAS ABOVE GRADE
75mm R15 Min. ADHERED RIGID INSULATION
- SELF-ADHERED AIR/VAPOUR BARRIER MEMBRANE
150mm REINFORCED CAST-IN PLACE CONCRETE
75mm R15 Min. ADHERED RIGID INSULATION

INTERIOR

### F200-i2

| WIDTH | R-VALUE | 31 | FIRE RATING | |
|---|---|---|---|---|
| 350 | R-VALUE CI MIN. | 30 | STC RATING | N/A |
| | ULC / OBC | | | |



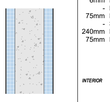
EXT INT

EXTERIOR
6mm PROTECTION BOARD (TO 300 BELOW GRADE) c/w CONCRETE
- PARGING FOR EXPOSED AREAS ABOVE GRADE
75mm R15 Min. ADHERED RIGID INSULATION
- SELF-ADHERED AIR/VAPOUR BARRIER MEMBRANE
200mm REINFORCED CAST-IN PLACE CONCRETE
75mm R15 Min. ADHERED RIGID INSULATION

INTERIOR

### F240-i2

| WIDTH | R-VALUE | 31 | FIRE RATING | |
|---|---|---|---|---|
| 390 | R-VALUE CI MIN. | 30 | STC RATING | N/A |
| | ULC / OBC | | | |



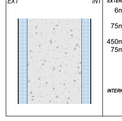
EXT INT

EXTERIOR
6mm PROTECTION BOARD (TO 300 BELOW GRADE) c/w CONCRETE
- PARGING FOR EXPOSED AREAS ABOVE GRADE
75mm R15 Min. ADHERED RIGID INSULATION
- SELF-ADHERED AIR/VAPOUR BARRIER MEMBRANE
240mm REINFORCED CAST-IN PLACE CONCRETE
75mm R15 Min. ADHERED RIGID INSULATION

INTERIOR

### F450-i2

| WIDTH | R-VALUE | 32 | FIRE RATING | |
|---|---|---|---|---|
| 600 | R-VALUE CI MIN. | 30 | STC RATING | N/A |
| | ULC / OBC | | | |



EXT INT

EXTERIOR
6mm PROTECTION BOARD (TO 300 BELOW GRADE) c/w CONCRETE
- PARGING FOR EXPOSED AREAS ABOVE GRADE
75mm R15 Min. ADHERED RIGID INSULATION
- SELF-ADHERED AIR/VAPOUR BARRIER MEMBRANE
450mm REINFORCED CAST-IN PLACE CONCRETE
75mm R15 Min. ADHERED RIGID INSULATION

INTERIOR

## ASSEMBLIES - ROOFS

### RF-3

| TYPE | R-VALUE | 57 | FIRE RATING | |
|---|---|---|---|---|
| FLAT | R-VALUE CI MIN. | 57 | SRI VALUE | 90 |
| | ULC / OBC | | | |

EXT

EXTERIOR
- 1 PLY OF MODIFIED BITUMINOUS WHITE GRANULATED CAP SHEET
- 1 PLY OF MODIFIED BITUMINOUS BASE SHEET
13mm PROTECTION BOARD
50mm ADHERED BITUMEN COATED STONE WOOL INSULATION
- TAPERED INSULATION (AS INDICATED)
200mm POLYISO INSULATION BOARD (MECHANICALLY FASTENED)
- ADHERED 1 PLY SELF-ADHERING VAPOUR RETARDER
13mm GYPSUM BOARDS MECHANICALLY FASTENED

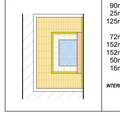
INTERIOR

INT

## ASSEMBLIES - PARAPETS

### PAR-1

| WIDTH | R-VALUE | 70 | FIRE RATING | |
|---|---|---|---|---|
| 503 | R-VALUE CI MIN. | | STC RATING | N/A |
| | ULC / OBC | | | |



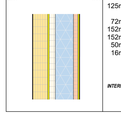
EXT INT

EXTERIOR
90mm BRICK MASONRY c/w THERMAL CONNECTORS
25mm CONTINUOUS AIR SPACE
125mm MINERAL WOOL INSULATION - R21.5
- A/V BARRIER MEMBRANE TAPE FOR ZIP SHEATHING
72mm EXTERIOR R ZIP SHEATHING c/w 50mm POLYISO RIGID INSUL. R-12
152mm WIND LOAD BEARING STEEL STUDS @ 400 O.C, c/w
152mm MINERAL WOOL INSULATION (WIDTH OF STUD)
50mm POLYISO RIGID INSULATION
16mm EXTERIOR FIBERGLASS SHEATHING
- ROOFING MEMBRANE

INTERIOR

### PAR-2

| WIDTH | R-VALUE | 64 | FIRE RATING | |
|---|---|---|---|---|
| 388 | R-VALUE CI MIN. | 33.5 | STC RATING | N/A |
| | ULC / OBC | | | |



EXT INT

EXTERIOR
125mm MINERAL WOOL INSULATION - R21.5
- A/V BARRIER MEMBRANE TAPE FOR ZIP SHEATHING
72mm EXTERIOR R ZIP SHEATHING c/w 50mm POLYISO RIGID INSUL. R-12
152mm WIND LOAD BEARING STEEL STUDS @ 400 O.C, c/w
152mm MINERAL WOOL INSULATION (WIDTH OF STUD)
50mm POLYISO RIGID INSULATION
16mm EXTERIOR FIBERGLASS SHEATHING
- ROOFING MEMBRANE

INTERIOR

## GENERAL ASSEMBLIES NOTES

1. ***EXTERIOR WALL ASSEMBLIES***
   1. THE SPECIFICATIONS, INSTALLATION, AND PERFORMANCE OF AIR BARRIER SYSTEMS AND VAPOUR BARRIERS MUST MEET OR EXCEED DIV. B PART 5 OF THE ONTARIO BUILDING CODE
   2. THE REQUIREMENTS FOR AN AIR BARRIER AND A VAPOUR BARRIER ARE INTENDED TO BE PROVIDED AS CONTINUOUS PLANES WITHIN THE BUILDING ENVELOPE, ENSURE CONTINUITY OF AIR AND VAPOUR MEMBRANES BETWEEN COMPONENTS, TO ADJACENT CONSTRUCTION AND AT ALL PENETRATIONS TO PREVENT OR RETARD PASSAGE OF MOISTURE LADEN AIR AND/OR THE DIFFUSION OF WATER VAPOUR.
   3. EXTERIOR ASSEMBLIES NOTING STUD FRAMING SHALL BE CONSTRUCTED USING WIND-LOAD BEARING FRAMING DESIGNED TO CARRY REQUIRED LATERAL LOADS. PROVIDE ENGINEERED SHOP DRAWING PRIOR TO COMMENCEMENT OF WORK.
2. ***INTERIOR WALL ASSEMBLIES***
   1. **GENERAL REQUIREMENTS**
      1. THE CONTRACTOR SHALL NOTIFY THE ARCHITECT OF ANY DISCREPANCIES BETWEEN THE ARCHITECTURAL AND STRUCTURAL DRAWINGS AND SPECIFICATIONS PRIOR TO THE COMMENCEMENT OF WORK.
      2. ALL PARTITIONS TO EXTEND TO U/S OF STRUCTURE UNLESS OTHERWISE NOTED. PROVIDE LATERAL BRACING AS REQUIRED
      3. FURRING TO EXTEND TO 150MM ABOVE FINISHED CEILING OR TO U/S OF STRUCTURE WHERE NO CEILING EXISTS UNLESS OTHERWISE NOTED. REFER TO REFLECTED CEILING PLANS
      4. WHERE INTERIOR DOORS ARE CLOSE TO AN INSIDE CORNER, PROVIDE MIN. 150MM CLEARANCE FROM DOOR JAMB TO ADJACENT WALL
      5. PROVIDE STEEL REINFORCING AS REQUIRED IN ALL INTERIOR GLAZED SCREENS (ALUMINUM OR HOLLOW METAL) TO U/S OF DECK AND/OR FIRE RATED FLOOR ASSEMBLY.
      6. WALL ACCESS PANELS - WHERE POSSIBLE, ACCESS PANELS IN WALLS TO BE LOCATED TO ON SIDE U/S OR IN LOCATION WITH MINIMAL VISUAL IMPACT. ACCESS PANELS TO PAINTED TO MATCH WALL FINISH. IN WASHROOMS ACCESS PANELS TO BE GALVANIZED STEEL PAINTED TO MATCH WALL FINISH. ALL ACCESS PANELS TO BE KEYED WITH THE SAME LOCK
   2. **LOAD BEARING PARTITIONS (INTERIOR)**
      1. WHERE A PARTITION IS A LOAD BEARING WALL, REFER TO THE STRUCTURAL DRAWINGS FOR DESIGN REQUIREMENTS.
      2. THE CONTRACTOR SHALL NOTIFY THE CONSULTANT OF ANY DISCREPANCIES BETWEEN THE ARCHITECTURAL AND STRUCTURAL DRAWINGS AND SPECIFICATIONS PRIOR TO THE COMMENCEMENT OF WORK.
   3. **STEEL STUD FRAMED PARTITIONS (INTERIOR)**
      1. ALL PARTITIONS ARE TO UNDERSIDE OF DECK UNLESS OTHERWISE NOTED.
      2. PROVIDE DEFLECTION DETAIL AT TOP OF ALL WALLS THAT ABUT UNDERSIDE OF DECK OR STRUCTURE. SEE ALSO TOP OF WALL DETAILS AS INDICATED.
      3. WHERE SOUND ATTENUATION BATTS ARE CALLED FOR ON THE WALL TYPE, SEAL PERIMETER OF WALLS AND AROUND PENETRATIONS THROUGH WALLS WITH ACOUSTIC SEALANT. APPLY CONTINUOUS ACOUSTIC SEALANT TO BOTH SIDES OF TRACK AT THE JUNCTIONS WITH FLOORS AND ROOF DECKS, AND AROUND PENETRATIONS TO PARTITIONS. RECESSED OUTLETS ARE TO BE STAGGERED SO THAT ONLY ONE OUTLET IS INSTALLED BETWEEN TWO STUDS.
      4. DO NOT FASTEN METAL STUDS TO CURTAIN WALL MULLIONS OR TEE BAR GRIDS.
      5. WHERE INTERIOR DOORS ARE CLOSE TO AN INSIDE CORNER, PROVIDE MIN. CLEARANCE FROM DOOR JAMB TO ADJACENT WALL AS INDICATED ON DETAIL TITLED 'FRAME TYPES'
      6. CONTRACTOR SHALL ENSURE STEEL STUD THICKNESS, SIZE AND SPACING IS ADEQUATE FOR THE HEIGHTS OF PARTITIONS INDICATED. CONTRACTOR SHALL PROVIDE BRACING AS REQUIRED.
      7. USE WATER RESISTANT GYPSUM WALL BOARD ON ALL WET SIDES OF PARTITIONS.
   4. **MASONRY PARTITIONS (INTERIOR)**
      1. HEIGHT OF CONCRETE MASONRY UNIT WALLS TO BE TO UNDERSIDE OF FLOOR/ROOF DECK ABOVE UNLESS OTHERWISE NOTED.
      2. WHERE CONCRETE UNIT MASONRY WALLS ABUT REINFORCED CONCRETE WALLS AND PIERS, RAKE BACK MORTAR JOINT WHERE THE TWO MATERIALS MEET AND PROVIDE CONTINUOUS SEALANT
   5. **FIRE RATED PARTITIONS (INTERIOR)**
      1. FOR WALL ASSEMBLIES THAT DENOTE FRR (FIRE RESISTANCE RATING), THE ASSEMBLY SHALL BE CONSTRUCTED AS A FIRE SEPARATION AT THE LOCATIONS INDICATED IN THE CONTRACT DRAWINGS GRAPHICALLY USING LINES AND/OR TEXT AND SYMBOLS
      2. AT RECESSED PANEL INSTALLATIONS (E.G. ELECTRICAL PANELS) WITHIN RATED WALLS PROVIDE FOR CONTINUITY OF THE REQUIRED RATING BEHIND THE PANEL. REFER TO THE ONTARIO BUILDING CODE DIVISION B, SECTION 3.1.9.2 FOR REQUIREMENTS FOR COMBUSTIBILITY OF SERVICE PENETRATIONS AND SECTION 3.1.10.2 FOR RATING OF FIREWALLS.
      3. WHERE FIRE RATED PARTITIONS ABUT NON-RATED PARTITIONS THE FIRE RATED ASSEMBLY SHALL BE CONTINUOUS AND UNINTERRUPTED BY THE ABUTTING WALLS TO MAINTAIN A CONTINUOUS FIRE SEPARATION.
      4. SEAL PERIMETER OF FIRE RATED WALLS AND AROUND PENETRATIONS THROUGH FIRE RATED WALLS WITH APPROVED FIRESTOP MATERIALS. DO NOT SEAL CLEARANCE SPACES WITHIN FIRE DAMPERS. SEAL ONLY IN STRICT ACCORDANCE WITH MANUFACTURERS INSTRUCTIONS.
      5. WHERE DUCTS, PIPES, AND CONDUITS PENETRATE RATED PARTITIONS, ENSURE FIRE-SEALANT IS PROVIDED IN GAPS/OPENINGS
   6. **ACOUSTIC PARTITIONS**
      1. WHERE ACOUSTIC BLANKET INSULATION IS SPECIFIED AS A COMPONENT PART OF A WALL OR PARTITION ASSEMBLY, CONTRACTOR SHALL PROVIDE A CONTINUOUS SEALANT TO BOTH STUDS AND TRACKS ALONG PARTITION PERIMETER.
      2. IN ACOUSTIC PARTITIONS, RECESSED OUTLETS ARE TO BE STAGGERED, AND CONTINUOUS FLEXIBLE SEALANT SHALL BE PROVIDED AT THE JUNCTIONS WITH FLOORS, CEILINGS AND STRUCTURAL MEMBERS. CONTRACTOR SHALL PROVIDE FLEXIBLE SEALANT AROUND PENETRATIONS IN THE PARTITION.
   7. **BLOCKING FOR MILLWORK & SPECIALITIES**
      1. PROVIDE BLOCKING IN PARTITIONS AND WALLS (INTERIOR AND EXTERIOR) FOR THE FOLLOWING:
         1. WINDOW FRAMES, MILLWORK, FIXTURES AND FITTINGS, HANDRAILS, GRAB BARS, TACKBOARDS, WHITEBOARDS, MIRRORS, WASHROOM ACCESSORIES AND OTHER ITEMS AS REQUIRED.
      2. PROVIDE BLOCKING TO ACCOMMODATE ALL SURFACE MOUNTED AND FURRED-IN ACCESSORIES AND FIXTURES UNLESS OTHERWISE INDICATED.

DPAI

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SEALS

ONTARIO ASSOCIATION OF ARCHITECTS
BANISTER, ANDREW
LICENCE 4316

MISSISSAUGA

**CITY OF MISSISSAUGA FIRE STATION 123**

3050 THE COLLEGEWAY MISSISSAUGA, ONTARIO CANADA

**SITE PLAN APPLICATION #** SP 24-3

**DEVELOPMENT TYPE** EMERGENCY SERVICES

**LEGAL DESCRIPTION** PART OF BLOCK 124 REGISTERED PLAN 43M-745

**APPLICANT INFO** DAVID PREMI, 25 MAIN ST. W, SUITE 1800, HAMILTON, ON L8P 1H1
905.522.0220

**OWNER INFO** CITY OF MISSISSAUGA, ADRIANA TANTALO, 300 CITY CENTRE DRIVE
905.615.3200 X 3395

| NO. | ISSUES/REVISIONS | DATE |
|---|---|---|
| 12 | TENDER | 05/06/24 |
| 11 | BP-RESUBMISSION | 05/02/24 |
| 10 | BP-RESUBMISSION | 03/27/24 |
| 9 | SPA RESUBMISSION | 03/12/24 |
| 8 | BP - RESUBMISSION | 02/23/24 |
| 7 | PERMIT | 01/22/24 |
| 6 | CLASS A ESTIMATE | 01/22/24 |
| 5 | 90% CD SUBMISSION | 1/22/24 |
| 4 | FORMAL SPA | 12/05/23 |
| 3 | MINOR VARIANCE APPLICATION | 09/08/23 |
| 2 | PAM 1 RE-SUBMISSION | 09/07/23 |
| 1 | PRELIMINARY ZONING REVIEW RE-SUBMISSION | 08/02/23 |
| 0 | SPA PRE-CONSULTATION | 03/28/23 |

DRAWING TITLE:

**CONSTRUCTION ASSEMBLY MATRIX - EXTERIOR ENVELOPE**

ISSUE DATE: 05/06/24

DRAWN BY: AF CHECKED BY: SRL

PROJECT NO.: 12301 SCALE: As indicated

DRAWING NO.: **A00.03** REVISION: **12**

PLOT DATE: 2024-06-05 4:53:31 PM

## ASSEMBLIES - WALL PARTITIONS (CON'T)

### IS4

| WIDTH | R-VALUE | N/A | FIRE RATING | 1.5 HR |
|---|---|---|---|---|
| | R-VALUE CI MIN. | N/A | STC RATING | N/A |
| | ULC / OBC | UL 263 | | |

EXT / INT

EXTERIOR
INTERIOR SCREEN - FIRE RATED
AL / HM FRAME
C/W PILKINGTON PYROSTOP FIRE-RATED GLAZING
BASIS OF DESIGN: FIREFRAMES ALUMINUM SERIES

INTERIOR
*ASSEMBLY SHALL BE BUILT TO U/S OF STRUCTURE (UNLESS NOTED ELSEWHERE)*

### P3-S-1

| WIDTH | R-VALUE | N/A | FIRE RATING | N/A |
|---|---|---|---|---|
| 165 | R-VALUE CI MIN. | N/A | STC RATING | -- |
| | ULC / OBC | | | |

EXT / INT

EXTERIOR
13mm GYPSUM WALL BOARD
152mm METAL STUDS @ 406mm O.C.

INTERIOR
*ASSEMBLY SHALL BE BUILT TO U/S OF STRUCTURE (UNLESS NOTED ELSEWHERE)*

### P12-Si-2

| WIDTH | R-VALUE | N/A | FIRE RATING | 50 min. |
|---|---|---|---|---|
| 184 | R-VALUE CI MIN. | N/A | STC RATING | -- |
| | ULC / OBC | OBC SB-2 | | |

EXT / INT

EXTERIOR
16mm TYPE 'X' GYPSUM WALL BOARD
152mm METAL STUDS @ 400mm O.C., C/W
152mm MINERAL WOOL INSULATION (WIDTH OF STUD)
16mm TYPE 'X' GYPSUM WALL BOARD

INTERIOR
*ASSEMBLY SHALL BE BUILT TO U/S OF STRUCTURE (UNLESS NOTED ELSEWHERE)*

## ASSEMBLIES - WALL PARTITIONS

### P1-S-1

| WIDTH | R-VALUE | N/A | FIRE RATING | N/A |
|---|---|---|---|---|
| 77 | R-VALUE CI MIN. | N/A | STC RATING | N/A |
| | ULC / OBC | N/A | | |

EXT / INT

EXTERIOR
13mm GYPSUM WALL BOARD
64mm METAL STUDS @ 400mm O.C., C/W

INTERIOR
*ASSEMBLY SHALL BE BUILT TO U/S OF STRUCTURE (UNLESS NOTED ELSEWHERE)*

### P2-S-1

| WIDTH | R-VALUE | N/A | FIRE RATING | N/A |
|---|---|---|---|---|
| 105 | R-VALUE CI MIN. | N/A | STC RATING | |
| | ULC / OBC | N/A | | |

EXT / INT

EXTERIOR
13mm GYPSUM WALL BOARD
92mm METAL STUDS @ 400mm O.C., C/W

INTERIOR
*ASSEMBLY SHALL BE BUILT TO U/S OF STRUCTURE (UNLESS NOTED ELSEWHERE)*

### P2-S-2

| WIDTH | R-VALUE | N/A | FIRE RATING | N/A |
|---|---|---|---|---|
| 118 | R-VALUE CI MIN. | N/A | STC RATING | 38 |
| | ULC / OBC | N/A | | |

EXT / INT

EXTERIOR
13mm GYPSUM WALL BOARD
92mm METAL STUDS @ 400mm O.C., C/W
13mm GYPSUM WALL BOARD

INTERIOR
*ASSEMBLY SHALL BE BUILT TO U/S OF STRUCTURE (UNLESS NOTED ELSEWHERE)*

### P3-S-1-WR

| WIDTH | R-VALUE | N/A | FIRE RATING | N/A |
|---|---|---|---|---|
| 105 | R-VALUE CI MIN. | N/A | STC RATING | |
| | ULC / OBC | N/A | | |

EXT / INT

EXTERIOR
13mm GYPSUM WALL BOARD
92mm METAL STUDS @ 400mm O.C., C/W

INTERIOR
*ASSEMBLY SHALL BE BUILT TO U/S OF STRUCTURE (UNLESS NOTED ELSEWHERE)*

### B-90-1

| WIDTH | R-VALUE | N/A | FIRE RATING | 1.5 HR |
|---|---|---|---|---|
| 90 | R-VALUE CI MIN. | N/A | STC RATING | 43 |
| | ULC / OBC | SB-3 B1a | | |

EXT / INT

EXTERIOR
90mm CONCRETE MASONRY UNITS

INTERIOR
*ASSEMBLY SHALL BE BUILT TO U/S OF STRUCTURE (UNLESS NOTED ELSEWHERE)*

### B-140-1

| WIDTH | R-VALUE | N/A | FIRE RATING | 1.5 HR |
|---|---|---|---|---|
| 140 | R-VALUE CI MIN. | N/A | STC RATING | 43 |
| | ULC / OBC | SB-3 B1a | | |

EXT / INT

EXTERIOR
140mm CONCRETE MASONRY UNITS

INTERIOR
*ASSEMBLY SHALL BE BUILT TO U/S OF STRUCTURE (UNLESS NOTED ELSEWHERE)*

### B-190-1

| WIDTH | R-VALUE | N/A | FIRE RATING | 2.5 HR |
|---|---|---|---|---|
| 190 | R-VALUE CI MIN. | N/A | STC RATING | 46 |
| | ULC / OBC | SB-3 B1a | | |

EXT / INT

EXTERIOR
190mm CONCRETE MASONRY UNITS

INTERIOR
*ASSEMBLY SHALL BE BUILT TO U/S OF STRUCTURE (UNLESS NOTED ELSEWHERE)*

### B-240-1

| WIDTH | R-VALUE | N/A | FIRE RATING | 2.5 HR |
|---|---|---|---|---|
| 240 | R-VALUE CI MIN. | N/A | STC RATING | 46 |
| | ULC / OBC | SB-3 B1a | | |

EXT / INT

EXTERIOR
240mm CONCRETE MASONRY UNITS

INTERIOR
*ASSEMBLY SHALL BE BUILT TO U/S OF STRUCTURE (UNLESS NOTED ELSEWHERE)*

### B-290-1

| WIDTH | R-VALUE | N/A | FIRE RATING | 2.5 HR |
|---|---|---|---|---|
| 290 | R-VALUE CI MIN. | N/A | STC RATING | 46 |
| | ULC / OBC | SB-3 B1a | | |

EXT / INT

EXTERIOR
290mm CONCRETE MASONRY UNITS

INTERIOR
*ASSEMBLY SHALL BE BUILT TO U/S OF STRUCTURE (UNLESS NOTED ELSEWHERE)*

### IS1

| WIDTH | R-VALUE | N/A | FIRE RATING | N/A |
|---|---|---|---|---|
| | R-VALUE CI MIN. | N/A | STC RATING | |
| | ULC / OBC | N/A | | |

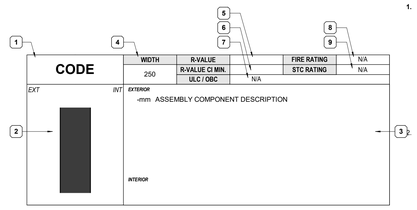
EXT / INT



EXTERIOR
- ALUMINUM FRAMED GLAZING SYSTEM
- - ENTRANCE FRAMING - INTERIOR SCREEN

INTERIOR
*ASSEMBLY SHALL BE BUILT TO U/S OF STRUCTURE (UNLESS NOTED ELSEWHERE)*

## ASSEMBLIES TYPE CODIFICATION




### CODE

| WIDTH | R-VALUE | N/A | FIRE RATING | N/A |
|---|---|---|---|---|
| 250 | R-VALUE CI MIN. | | STC RATING | N/A |
| | ULC / OBC | N/A | | |

EXT / INT

EXTERIOR
-mm ASSEMBLY COMPONENT DESCRIPTION

INTERIOR

**GENERAL NOTES:**

1. ASSEMBLY CODE ASSIGNED TO ALL ASSEMBLIES.
2. INDICATIVE ASSEMBLY SECTION.
3. ASSEMBLY DESCRIPTION, LISTED WITH THICKNESS AND DESCRIPTION OF ASSEMBLY LAYERS, FROM EXTERIOR FACE TO INTERIOR FACE OF ASSEMBLY.
4. ASSEMBLY OVERALL WIDTH.
5. THE R-VALUES GIVEN INDICATES THE CLEAR-FIELD EFFECTIVE VALUES. THESE ARE THE MINIMUM REQUIRED TO MEET THE PASSIVEHOUSE TARGETS. NOTE THAT THE EFFECTIVE R-VALUE CAN BE LESS THAN THE NOMINAL INSULATION R-VALUE BASED ON THERMAL BRIDGING ASSUMPTIONS. IT COULD ALSO BE MORE, AS IT INCLUDES THERMAL PERFORMANCE OF SUBSEQUENT LAYERS (I.E. AIR CAVITIES, DRYWALL, ETC.).
6. MINIMUM R-VALUE OF THE CONTINUOUS INSULATION AS REQUIRED BY OBC.
7. ULC LISTING OR OBC CODE REFERENCE FOR SPECIFIED ASSEMBLIES.
8. REQUIRED FIRE-RESISTANCE RATING OR OVERALL ASSEMBLY.
9. REQUIRED ACOUSTIC PERFORMANCE RATING OF OVERALL ASSEMBLY.

## ASSEMBLIES - FLOORS INTERIOR

### SG-Ci-125

| TYPE | INSULATED CONCRETE SLAB ON GRADE |
|---|---|

125mm CONCRETE SLAB ON GRADE
6mil VAPOUR BARRIER
75mm R-15 RIGID INSULATION - 40 PSI
200mm COMPACTED 19mm CLEAR CRUSHED STONE

### SG-Ci-200r

| TYPE | INSULATED CONCRETE SLAB ON GRADE |
|---|---|

200mm CONCRETE - REFER TO STRUCTURAL
- REINFORCING - REFER TO STRUCTURAL
6mil VAPOUR BARRIER
75mm R-15 RIGID INSULATION - 100 PSI
200mm COMPACTED 19mm CLEAR CRUSHED STONE

** GC TO COORDINATE WITH MECHANICAL FOR INFLOOR RADIANT HEATING*

## ASSEMBLIES - CEILINGS

### ACT-3

| WIDTH | R-VALUE | N/A | FIRE RATING | |
|---|---|---|---|---|
| | R-VALUE CI MIN. | N/A | STC RATING | |
| | ULC / OBC | | | |

EXTERIOR
- 100/600 x 1200mm ACOUSTIC LAY-IN TILE
- HANGER WIRE @ MAIN TEES TO STRUCTURE
- WIRE SPACING 1200mm O/C MAX.

INTERIOR

### EXP

| WIDTH | R-VALUE | N/A | FIRE RATING | |
|---|---|---|---|---|
| | R-VALUE CI MIN. | N/A | STC RATING | |
| | ULC / OBC | | | |



EXTERIOR
EXPOSED CEILING - FINISH - REFER TO ROOM FINISH SCHEDULE

INTERIOR

### GB

| WIDTH | R-VALUE | N/A | FIRE RATING | |
|---|---|---|---|---|
| | R-VALUE CI MIN. | N/A | STC RATING | |
| | ULC / OBC | | | |



EXTERIOR
12.7mm GYSPUM BOARD
- METAL FURRING CHANNELS @ 400mm O/C max.
- BRIDGING CHANNEL @ 400mm O/C MAX.
- or DRYWALL CEILING SUSPENSION SYSTEM
- HANGER WIRES TO STRUCTURE

INTERIOR

### GB-WR

| WIDTH | R-VALUE | N/A | FIRE RATING | |
|---|---|---|---|---|
| | R-VALUE CI MIN. | N/A | STC RATING | |
| | ULC / OBC | | | |



EXTERIOR
12.7mm GYSPUM BOARD (WATER RESISTANT)
- METAL FURRING CHANNELS @ 400mm O/C max.
- BRIDGING CHANNEL @ 400mm O/C MAX.
- or DRYWALL CEILING SUSPENSION SYSTEM
- HANGER WIRES TO STRUCTURE

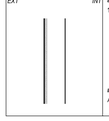
INTERIOR

## ASSEMBLIES - WALL FURRINGS

### F8

| WIDTH | R-VALUE | N/A | FIRE RATING | |
|---|---|---|---|---|
| 175 | R-VALUE CI MIN. | N/A | STC RATING | |
| | ULC / OBC | | | |

EXT / INT



EXTERIOR
152mm METAL STUDS @ 406 O.C
13mm TILE BACKER BOARD
- WATERPROOF MEMBRANE
- SELECTED TILES ON GROUT

INTERIOR
*ASSEMBLY SHALL BE BUILT TO U/S OF STRUCTURE (UNLESS NOTED ELSEWHERE)*

## GENERAL ASSEMBLIES NOTES

1. ***EXTERIOR WALL ASSEMBLIES***
   1. THE SPECIFICATIONS, INSTALLATION, AND PERFORMANCE OF AIR BARRIER SYSTEMS AND VAPOUR BARRIERS MUST MEET OR EXCEED DIV. B PART 5 OF THE ONTARIO BUILDING CODE.
   2. THE REQUIREMENTS FOR AN AIR BARRIER AND A VAPOUR BARRIER ARE INTENDED TO BE PROVIDED AS CONTINUOUS PLANES WITHIN THE BUILDING ENVELOPE. ENSURE CONTINUITY OF AIR AND VAPOUR MEMBRANES BETWEEN COMPONENTS, TO ADJACENT CONSTRUCTION AND AT ALL PENETRATIONS TO PREVENT OR RETARD PASSAGE OF MOISTURE LADEN AIR AND/OR THE DIFFUSION OF WATER VAPOUR.
   3. EXTERIOR ASSEMBLIES NOTING STUD FRAMING SHALL BE CONSTRUCTED USING WIND-LOAD BEARING FRAMING DESIGNED TO CARRY REQUIRED LATERAL LOADS. PROVIDE ENGINEERED SHOP DRAWING PRIOR TO COMMENCEMENT OF WORK.
2. ***INTERIOR WALL ASSEMBLIES***
   1. **GENERAL REQUIREMENTS**
      1. THE CONTRACTOR SHALL NOTIFY THE ARCHITECT OF ANY DISCREPANCIES BETWEEN THE ARCHITECTURAL AND STRUCTURAL DRAWINGS AND SPECIFICATIONS PRIOR TO THE COMMENCEMENT OF WORK.
      2. ALL PARTITIONS TO EXTEND TO U/S OF STRUCTURE UNLESS OTHERWISE NOTED. PROVIDE LATERAL BRACING AS REQUIRED
      3. FURRING TO EXTEND TO 150MM ABOVE FINISHED CEILING OR TO U/S OF STRUCTURE WHERE NO CEILING EXISTS UNLESS OTHERWISE NOTED. REFER TO REFLECTED CEILING PLANS
      4. WHERE INTERIOR DOORS ARE CLOSE TO AN INSIDE CORNER, PROVIDE MIN. 150MM CLEARANCE FROM DOOR JAMB TO ADJACENT WALL
      5. PROVIDE STEEL REINFORCING AS REQUIRED IN ALL INTERIOR GLAZED SCREENS (ALUMINUM OR HOLLOW METAL) TO U/S OF DECK AND/OR FIRE RATED FLOOR ASSEMBLY.
      6. WALL ACCESS PANELS - WHERE POSSIBLE, ACCESS PANELS IN WALLS TO BE LOCATED ON SIDE WALLS OR IN LOCATION WITH MINIMAL VISUAL IMPACT. ACCESS PANELS TO PAINTED TO MATCH WALL FINISH. IN WASHROOMS ACCESS PANELS TO BE GALVANIZED STEEL PAINTED TO MATCH WALL FINISH. ALL ACCESS PANELS TO BE KEYED WITH THE SAME LOCK.
   2. **LOAD BEARING PARTITIONS (INTERIOR)**
      1. WHERE A PARTITION IS A LOAD BEARING WALL, REFER TO THE STRUCTURAL DRAWINGS FOR DESIGN REQUIREMENTS.
      2. THE CONTRACTOR SHALL NOTIFY THE CONSULTANT OF ANY DISCREPANCIES BETWEEN THE ARCHITECTURAL AND STRUCTURAL DRAWINGS AND SPECIFICATIONS PRIOR TO THE COMMENCEMENT OF WORK.
   3. **STEEL STUD FRAMED PARTITIONS (INTERIOR)**
      1. ALL PARTITIONS ARE TO UNDERSIDE OF DECK UNLESS OTHERWISE NOTED.
      2. PROVIDE DEFLECTION DETAIL AT TOP OF ALL WALLS THAT ABUT UNDERSIDE OF DECK OR STRUCTURE. SEE ALSO TOP OF WALL DETAILS AS INDICATED.
      3. WHERE SOUND ATTENUATION BATTS ARE CALLED FOR ON THE WALL TYPE, SEAL PERIMETER OF WALLS AND AROUND PENETRATIONS THROUGH WALLS WITH ACOUSTIC SEALANT. APPLY CONTINUOUS ACOUSTIC SEALANT TO BOTH SIDES OF TRACK AT THE JUNCTIONS WITH FLOORS AND ROOF DECKS, AND AROUND PENETRATIONS TO PARTITIONS. RECESSED OUTLETS ARE TO BE STAGGERED SO THAT ONLY ONE OUTLET IS INSTALLED BETWEEN TWO STUDS.
      4. DO NOT FASTEN METAL STUDS TO CURTAIN WALL MULLIONS OR TEE BAR GRIDS.
      5. WHERE INTERIOR DOORS ARE CLOSE TO AN INSIDE CORNER, PROVIDE MIN. CLEARANCE FROM DOOR JAMB TO ADJACENT WALL AS INDICATED ON DETAIL TITLED 'FRAME TYPES'
      6. CONTRACTOR SHALL ENSURE STEEL STUD THICKNESS, SIZE AND SPACING IS ADEQUATE FOR THE HEIGHTS OF PARTITIONS INDICATED. CONTRACTOR SHALL PROVIDE BRACING AS REQUIRED.
      7. USE WATER RESISTANT GYPSUM WALL BOARD ON ALL WET SIDES OF PARTITIONS.
   4. **MASONRY PARTITIONS (INTERIOR)**
      1. HEIGHT OF CONCRETE MASONRY UNIT WALLS TO BE TO UNDERSIDE OF FLOOR/ROOF DECK ABOVE UNLESS OTHERWISE NOTED.
      2. WHERE CONCRETE UNIT MASONRY WALLS ABUT REINFORCED CONCRETE WALLS AND PIERS, RAKE BACK MORTAR JOINT WHERE THE TWO MATERIALS MEET AND PROVIDE CONTINUOUS SEALANT
   5. **FIRE RATED PARTITIONS (INTERIOR)**
      1. FOR WALL ASSEMBLIES THAT DENOTE FRR (FIRE RESISTANCE RATING), THE ASSEMBLY SHALL BE CONSTRUCTED AS A FIRE SEPARATION AT THE LOCATIONS INDICATED IN THE CONTRACT DRAWINGS GRAPHICALLY USING LINES AND/OR TEXT AND SYMBOLS
      2. AT RECESSED PANEL INSTALLATIONS (E.G. ELECTRICAL PANELS) WITHIN RATED WALLS PROVIDE FOR CONTINUITY OF THE REQUIRED RATING BEHIND THE PANEL. REFER TO THE ONTARIO BUILDING CODE DIVISION B, SECTION 3.1.9.2 FOR REQUIREMENTS FOR COMBUSTIBILITY OF SERVICE PENETRATIONS AND SECTION 3.1.10.2 FOR RATING OF FIREWALLS.
      3. WHERE FIRE RATED PARTITIONS ABUT NON-RATED PARTITIONS THE FIRE RATED ASSEMBLY SHALL BE CONTINUOUS AND UNINTERRUPTED BY THE ABUTTING WALLS TO MAINTAIN A CONTINUOUS FIRE SEPARATION.
      4. SEAL PERIMETER OF FIRE RATED WALLS AND AROUND PENETRATIONS THROUGH FIRE RATED WALLS WITH APPROVED FIRESTOP MATERIALS. DO NOT SEAL CLEARANCE SPACES WITHIN FIRE DAMPERS. SEAL ONLY IN STRICT ACCORDANCE WITH MANUFACTURERS INSTRUCTIONS.
      5. WHERE DUCTS, PIPES, AND CONDUITS PENETRATE RATED PARTITIONS, ENSURE FIRE-SEALANT IS PROVIDED IN GAPS/OPENINGS
   6. **ACOUSTIC PARTITIONS**
      1. WHERE ACOUSTIC BLANKET INSULATION IS SPECIFIED AS A COMPONENT PART OF A WALL OR PARTITION ASSEMBLY, CONTRACTOR SHALL PROVIDE A CONTINUOUS SEALANT TO BOTH STUDS AND TRACKS ALONG PARTITION PERIMETER.
      2. IN ACOUSTIC PARTITIONS, RECESSED OUTLETS ARE TO BE STAGGERED, AND CONTINUOUS FLEXIBLE SEALANT SHALL BE PROVIDED AT THE JUNCTIONS WITH FLOORS, CEILINGS AND STRUCTURAL MEMBERS. CONTRACTOR SHALL PROVIDE FLEXIBLE SEALANT AROUND PENETRATIONS IN THE PARTITION.
   7. **BLOCKING FOR MILLWORK & SPECIALITIES**
      1. PROVIDE BLOCKING IN PARTITIONS AND WALLS (INTERIOR AND EXTERIOR) FOR THE FOLLOWING:
         1. WINDOW FRAMES, MILLWORK, FIXTURES AND FITTINGS, HANDRAILS, GRAB BARS, TACKBOARDS, WHITEBOARDS, MIRRORS, WASHROOM ACCESSORIES AND OTHER ITEMS AS REQUIRED.
         2. PROVIDE BLOCKING TO ACCOMMODATE ALL SURFACE MOUNTED AND FURRED-IN ACCESSORIES AND FIXTURES UNLESS OTHERWISE INDICATED.


DPAI
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SEALS

ONTARIO ASSOCIATION OF ARCHITECTS
DAVID PREMI
LICENCE 4316

MISSISSAUGA

**CITY OF MISSISSAUGA FIRE STATION 123**

3050 THE COLLEGEWAY MISSISSAUGA, ONTARIO CANADA

| | |
|---|---|
| **SITE PLAN APPLICATION #** | SP 24-3 |
| **DEVELOPMENT TYPE** | EMERGENCY SERVICES |
| **LEGAL DESCRIPTION** | PART OF BLOCK 124 REGISTERED PLAN 43M-745 |
| **APPLICANT INFO** | DAVID PREMI, 25 MAIN ST. W, SUITE 1800, HAMILTON, ON L8P 1H1<br>905.522.0220 |
| **OWNER INFO** | CITY OF MISSISSAUGA, ADRIANA TANTALO, 300 CITY CENTRE DRIVE<br>905.615.3200 X 3395 |

| NO. | ISSUES/REVISIONS | DATE |
|---|---|---|
| 10 | TENDER | 05/06/24 |
| 9 | SPA RESUBMISSION | 03/12/24 |
| 8 | BP - RESUBMISSION | 02/23/24 |
| 7 | PERMIT | 01/22/24 |
| 6 | CLASS A ESTIMATE | 01/22/24 |
| 5 | 90% CD SUBMISSION | 1/22/24 |
| 4 | FORMAL SPA | 12/05/23 |
| 3 | MINOR VARIANCE APPLICATION | 09/08/23 |
| 2 | PAM 1 RE-SUBMISSION | 09/07/23 |
| 1 | PRELIMINARY ZONING REVIEW RE-SUBMISSION | 08/02/23 |
| 0 | SPA PRE-CONSULTATION | 03/28/23 |

DRAWING TITLE:

**CONSTRUCTION ASSEMBLY MATRIX - INTERIOR**

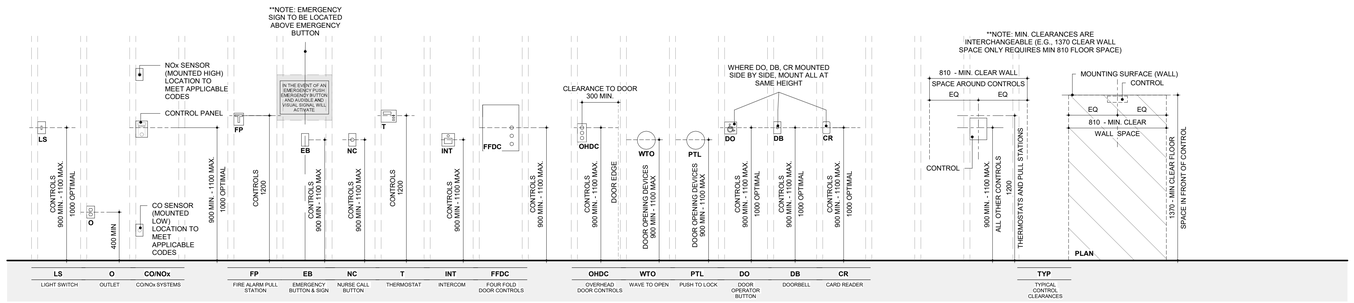
ISSUE DATE: 05/06/24

DRAWN BY: AF CHECKED BY: SRL

PROJECT NO.: 12301 SCALE: As indicated

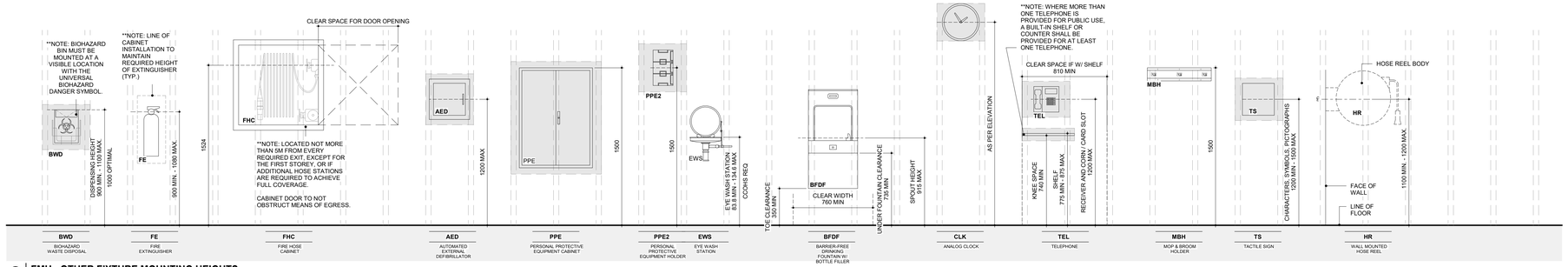
DRAWING NO.: **A00.04** REVISION: **10**


[ PLOT DATE: 2024-05-03 4:43:45 AM ]



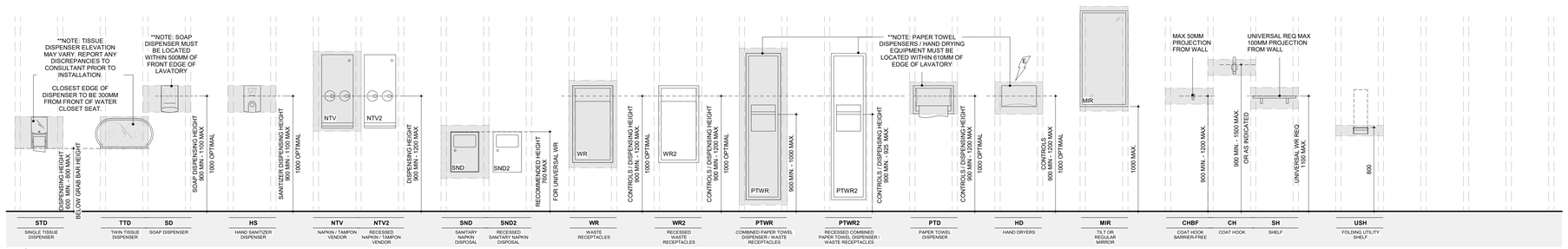

## 1 FMH - CONTROLS MOUNTING HEIGHTS

1 : 20



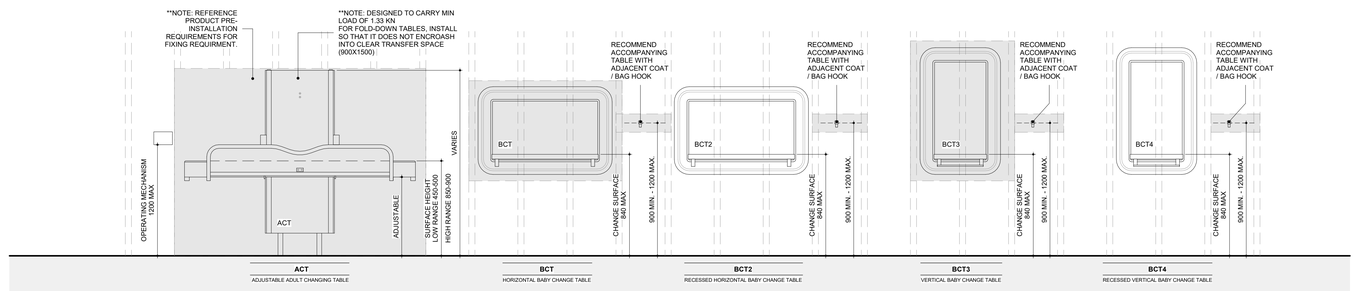

## 2 FMH - OTHER FIXTURE MOUNTING HEIGHTS

1 : 20




## 3 FMH - WASHROOM ACCESSORIES MOUNTING HEIGHTS

1 : 20




## 4 FMH - CT - FIXTURE MOUNTING HEIGHTS - CHANGE TABLES

1 : 20

## FIXTURE MOUNTING HEIGHTS GENERAL NOTES

***GENERAL***

1. GENERAL CONTRACTOR SHALL REVIEW ALL APPLICAPLE DETAILS PROVIDED ON THIS PAGE.
2. NOT ALL ITEMS SHOWN ARE IN THE PROJECT. GENERAL CONTRACTOR SHALL REVIEW AND COORDINATE WITH FULL A-SERIES DRAWINGS, MECHANICAL AND ELECTRICAL FOR FULL BREATH OF PROJECT SCOPE.
3. ALL FIXTURES SHOWN ARE NOT INTENDED TO SHOW THE EXACT MODEL IN THE PROJECT, BUT THE REQUIREMENTS FOR THE OPERATION OF THAT TYPE OF FIXTURE.

***MOUNTING HEIGHTS:***

1. FOR MOUNTING HEIGHTS SHOWN AS A RANGE. SELECT HEIGHT AND INSTALL ALL FIXTURES AT THAT HEIGHT (TYP.). FIXTURES THAT ARE WITHIN VISUAL SIGHTLINE OF EACH OTHER **SHALL BE** AT SAME HEIGHT.
2. FOR MOUNTING HEIGHTS NOT SHOWN. CONFIRM HEIGHT WITH CONSULTANT PRIOR TO INSTALLATION. NO CONTROLS, OPERATING OR DISPENSING COMPONENTS HIGHER THAN 1100mm AFF.

   ALL DIMENSIONS SUBJECT TO SPECIFIC MUNICIPAL REQUIREMENTS. CONFIRM WITH CONSULTANT PRIOR TO INSTALLATION.

***EXECUTION NOTES:***

1. SECURE ALL WALL MOUNTED ITEMS TO PLYWOOD OR SHEET METAL BACKING/BLOCKING TYPICAL ALL LOCATIONS. FASTENING OF WALL MOUNTED ITEMS THROUGH GYPSUM ONLY WILL NOT BE PERMITTED

   A. SHADED AREAS INDICATE APPROXIMATE LOCATION OF 3/4" PLYWOOD OR SHEET METAL BACKING (18 GA.) UNLESS NOTED OTHERWISE. COORDINATE W/FIXTURE. TYPICAL 8" (200MM) WIDE STRIP.

   B. SHADED AREAS INDICATE APPROXIMATE LOCATION OF SHEET METAL (18 GA.) COMBINED WITH 3/4" PLYWOOD BACKING TO HELP RESIST AXIAL FORCES, UNLESS NOTED OTHERWISE. COORDINATE WITH FIXTURE. TYPICAL 8" (200MM) WIDE STRIP.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DRAWINGS ARE NOT TO BE SCALED.

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SEALS

ONTARIO ASSOCIATION OF ARCHITECTS
DAVID PREMI
LICENCE 4316

MISSISSAUGA

**CITY OF MISSISSAUGA FIRE STATION 123**

3050 THE COLLEGEWAY MISSISSAUGA, ONTARIO CANADA

| | |
|---|---|
| **SITE PLAN APPLICATION #** | SP 24-3 |
| **DEVELOPMENT TYPE** | EMERGENCY SERVICES |
| **LEGAL DESCRIPTION** | PART OF BLOCK 124 REGISTERED PLAN 43M-745 |
| **APPLICANT INFO** | DAVID PREMI, 25 MAIN ST. W, SUITE 1800, HAMILTON, ON L8P 1H1<br>905.522.0220 |
| **OWNER INFO** | CITY OF MISSISSAUGA, ADRIANA TANTALO, 300 CITY CENTRE DRIVE<br>905.615.3200 X 3395 |

| NO. | ISSUES/REVISIONS | DATE |
|---|---|---|
| 10 | TENDER | 05/06/24 |
| 9 | SPA RESUBMISSION | 03/12/24 |
| 8 | BP - RESUBMISSION | 02/23/24 |
| 7 | PERMIT | 01/22/24 |
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| 1 | PRELIMINARY ZONING REVIEW RE-SUBMISSION | 08/02/23 |
| 0 | SPA PRE-CONSULTATION | 03/28/23 |

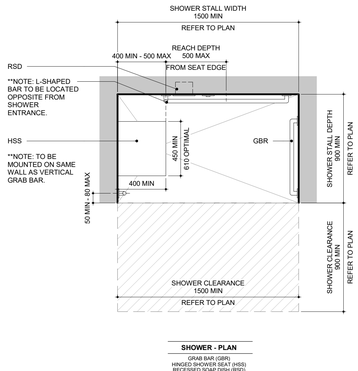
DRAWING TITLE:

**FIXTURE MOUNTING HEIGHTS**

| | |
|---|---|
| ISSUE DATE: | 05/06/24 |
| DRAWN BY: AF | CHECKED BY: SRL |
| PROJECT NO.: 12301 | SCALE: 1 : 20 |
| DRAWING NO.: | REVISION: |

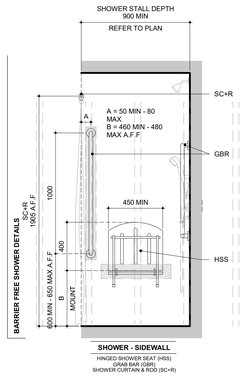
**A00.05** **10**


LAST PLOT DATE: 2024-05-07 4:03:43 AM



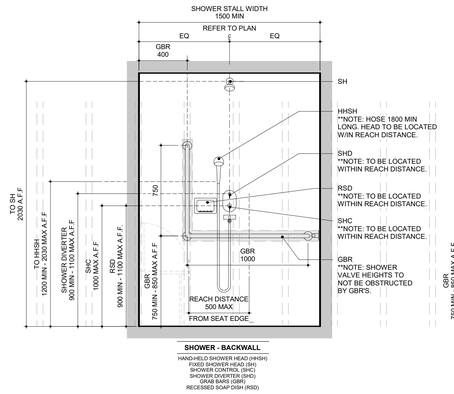

**SHOWER - PLAN**

GRAB BAR (GBR)
HINGED SHOWER SEAT (HSS)
RECESSED SOAP DISH (RSD)



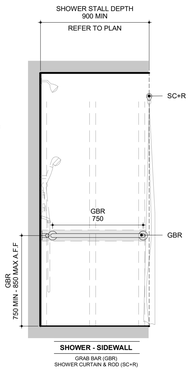

**SHOWER - SIDEWALL**

HINGED SHOWER SEAT (HSS)
GRAB BAR (GBR)
SHOWER CURTAIN & ROD (SC+R)




**SHOWER - BACKWALL**

HAND-HELD SHOWER HEAD (HHSH)
FIXED SHOWER HEAD (SH)
SHOWER CONTROL (SHC)
SHOWER DIVERTER (SHD)
GRAB BARS (GBR)
RECESSED SOAP DISH (RSD)




**SHOWER - SIDEWALL**

GRAB BAR (GBR)
SHOWER CURTAIN & ROD (SC+R)

## FIXTURE MOUNTING HEIGHTS GENERAL NOTES

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   B. SHADED AREAS INDICATE APPROXIMATE LOCATION OF SHEET METAL (18 GA.) COMBINED WITH 3/4" PLYWOOD BACKING TO HELP RESIST AXIAL FORCES, UNLESS NOTED OTHERWISE. COORDINATE WITH FIXTURE. TYPICAL 8" (200MM) WIDE STRIP.

## EMERGENCY CALL SYSTEM OPERATION REQUIREMENTS

***EMERGENCY CALL SYSTEM OPERATION***

1. DOOR IS NORMALLY CLOSED AND UNLOCKED.

2. THE DOOR CAN BE MANUALLY OPENED OR AUTOMATICALLY OPENED VIA THE EXTERIOR HANDICAP ACTUATOR **(A)**.

3. ONCE A USER HAS ENTERED THE WASHROOM, DOOR CAN BE LOCKED VIA THE "PUSH TO LOCK" BUTTON **(B)** WHICH WILL:
   1. LOCK THE ELECTRIC STRIKE
   2. DISABLE OUTSIDE HANDICAP ACTUATOR
   3. PREVENT AUTOMATIC DOOR OPERATOR FROM OPENING DOOR.
   4. THE "LOCKED" INDICATOR **(C)** NEXT TO "PUSH TO LOCK" BUTTON AND EXTERIOR "OCCUPIED" INDICATOR **(D)** WILL BE ON.

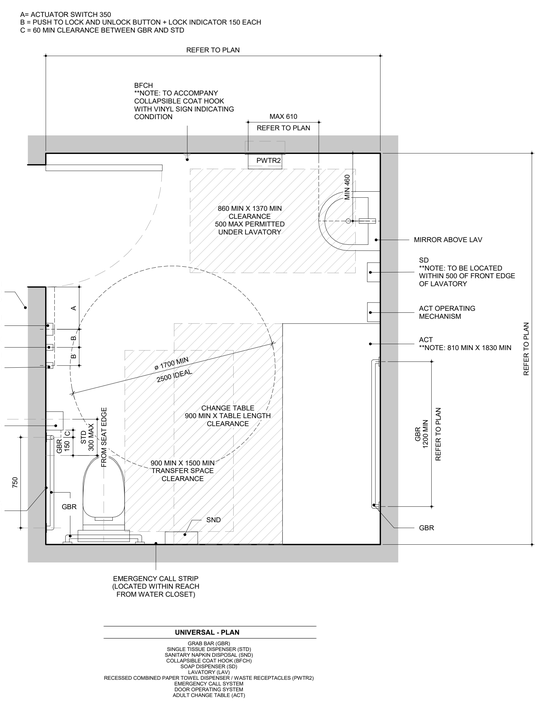
4. EXIT SHALL BE ALWAYS FREE BY INSIDE HANDICAP ACTUATOR **(E)** OR BY OPENING DOOR MANUALLY, "LOCKED" AND "OCCUPIED" INDICATORS SHALL TURN OFF.

5. IN CASE OF EMERGENCY, THE USER CAN PUSH THE EMERGENCY CALL BUTTON **(F)** WHICH WILL:
   1. ACTIVATE VISUAL AND AUDIBLE SIGNALS **(G)** INSIDE AND OUTSIDE OF THE WASHROOM.
   2. ALARM IS RESET AT THE EMERGENCY PUSH BUTTON SWITCH.

6. EMERGENCY ACCESS INTO WASHROOM SHALL BE BY USE OF A KEY IN OUTSIDE LEVER HANDLE **(H)**.

## 1 FMH - BFS - BARRIER FREE SHOWER DETAILS

1 : 20

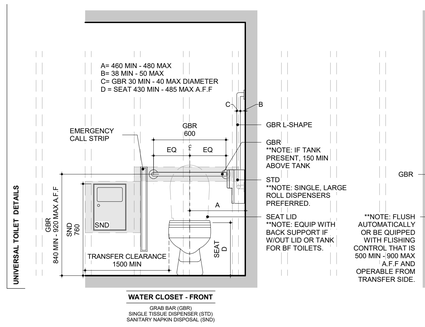



**UNIVERSAL - PLAN**

GRAB BAR (GBR)
SINGLE TISSUE DISPENSER (STD)
SANITARY NAPKIN DISPOSAL (SND)
COAT HOOK WITH VINYL SIGN (BFCH)
SOAP DISPENSER (SD)
LAVATORY (LAV)
RECESSED COMBINED PAPER TOWEL DISPENSER / WASTE RECEPTACLES (PWTR2)
EMERGENCY CALL SYSTEM
DOOR OPERATING SYSTEM
ADULT CHANGE TABLE (ACT)

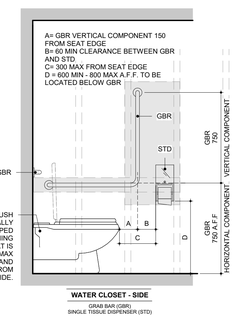
## 4 ECS - UNIVERSAL WASHROOMS

1 : 20



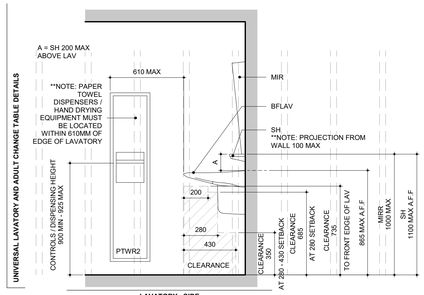

**WATER CLOSET - FRONT**

GRAB BAR (GBR)
SINGLE TISSUE DISPENSER (STD)
SANITARY NAPKIN DISPOSAL (SND)



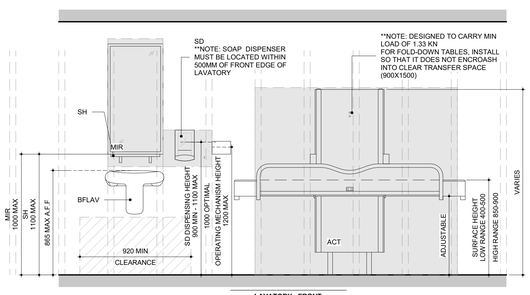

**WATER CLOSET - SIDE**

GRAB BAR (GBR)
SINGLE TISSUE DISPENSER (STD)



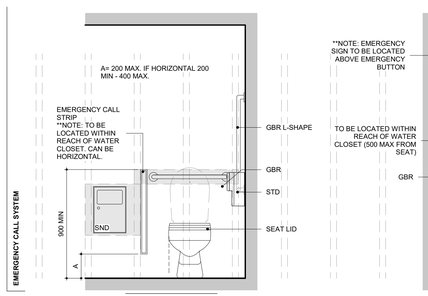

**LAVATORY - SIDE**

TILT MIRROR (MIR)
STAINLESS STEEL SHELF (SH)
RECESSED COMBINED PAPER TOWEL DISPENSER / WASTE RECEPTACLE (PWTR2)
BARRIER-FREE LAVATORY (BFLAV)



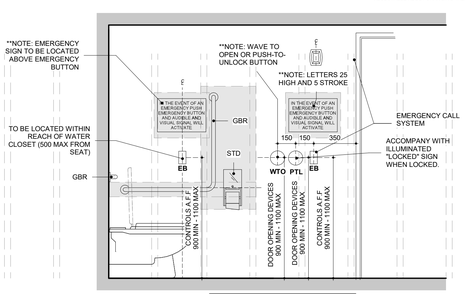

**LAVATORY - FRONT**

TILT MIRROR (MIRR)
STAINLESS STEEL SHELF (SH)
SOAP DISPENSER (SD)
BARRIER-FREE LAVATORY (BFLAV)
ADJUSTABLE ADULT CHANGING TABLE (ACT)



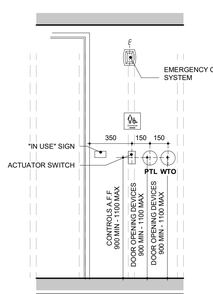

**WATER CLOSET - FRONT**

GRAB BAR (GBR)
SINGLE TISSUE DISPENSER (STD)
SANITARY NAPKIN DISPOSAL (SND)
EMERGENCY CALL STRIP (ECS)




**WATER CLOSET - SIDE**

GRAB BAR (GBR)
SINGLE TISSUE DISPENSER (STD)
EMERGENCY CALL SYSTEM& EMERGENCY BUTTON (EB)
WAVE TO OPEN (WTO)
PUSH TO LOCK (PTL)




**WATER CLOSET - OUTSIDE DOOR FACE**

EMERGENCY CALL SYSTEM
EMERGENCY CALL SYSTEM & EMERGENCY BUTTON (EB)
WAVE TO OPEN (WTO)
PUSH TO LOCK (PTL)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SEALS

ONTARIO ASSOCIATION OF ARCHITECTS
DAVID PREMI
LICENCE
4316

MISSISSAUGA

# CITY OF MISSISSAUGA FIRE STATION 123

3050 THE COLLEGEWAY MISSISSAUGA, ONTARIO CANADA

| | |
|---|---|
| **SITE PLAN APPLICATION #** | SP 24-3 |
| **DEVELOPMENT TYPE** | EMERGENCY SERVICES |
| **LEGAL DESCRIPTION** | PART OF BLOCK 124 REGISTERED PLAN 43M-745 |
| **APPLICANT INFO** | DAVID PREMI, 25 MAIN ST. W, SUITE 1800, HAMILTON, ON L8P 1H1<br>905.522.0220 |
| **OWNER INFO** | CITY OF MISSISSAUGA, ADRIANA TANTALO, 300 CITY CENTRE DRIVE<br>905.615.3200 X 3395 |

| NO. | ISSUES/REVISIONS | DATE |
|---|---|---|
| 10 | TENDER | 05/06/24 |
| 9 | SPA RESUBMISSION | 03/12/24 |
| 8 | BP - RESUBMISSION | 02/23/24 |
| 7 | PERMIT | 01/22/24 |
| 6 | CLASS A ESTIMATE | 01/22/24 |
| 5 | 90% CD SUBMISSION | 1/22/24 |
| 4 | FORMAL SPA | 12/05/23 |
| 3 | MINOR VARIANCE APPLICATION | 09/08/23 |
| 2 | PAM 1 RE-SUBMISSION | 09/07/23 |
| 1 | PRELIMINARY ZONING REVIEW RE-SUBMISSION | 08/02/23 |
| 0 | SPA PRE-CONSULTATION | 03/28/23 |

DRAWING TITLE:

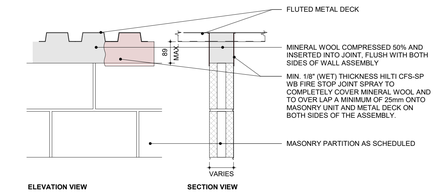
## TYPICAL OBC UNIVERSAL WASHROOM & SHOWER REQUIREMENTS

| | |
|---|---|
| ISSUE DATE: | 05/06/24 |
| DRAWN BY: AA | CHECKED BY: SL |
| PROJECT NO.: 12301 | SCALE: 1 : 20 |
| DRAWING NO.: | REVISION: |

# A00.06

10


PLOT DATE 2024-05-01 4:03:46 PM

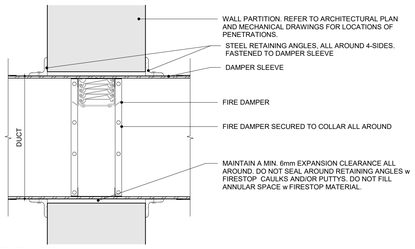



**EXECUTION NOTES**

1. REFER TO STRUC. DWGs FOR REQ'D LATERAL SUPPORT OF MASONRY WALLS.
2. REFER TO SPECIFICATIONS FOR REQUIREMENTS ON FIRESTOP SYSTEMS.
3. DETAIL PROVIDED IN TYPICAL GENERAL CONTRACTOR SHALL ACCOMODATE TO FIELD CONDITIONS AND PROVIDE ALTERNATIVE DETAIL FOR REVIEW BY CONSULTANT.
4. REFER TO LIFE SAFETY PLANS FOR FIRE RATING OF WALL REQUIREMENTS.
5. ENSURE FIRE RATED SEALNT SEALS TO DECK PROFILE
6. CONTRACTOR SHALL MAINTAIN REQUIRED FIRE RESISTANCE RATING OVER ENTIRE ASSEMBLY

## 2 TOP OF MASONRY FIRESTOPPING DETAIL TO DECK

NTS

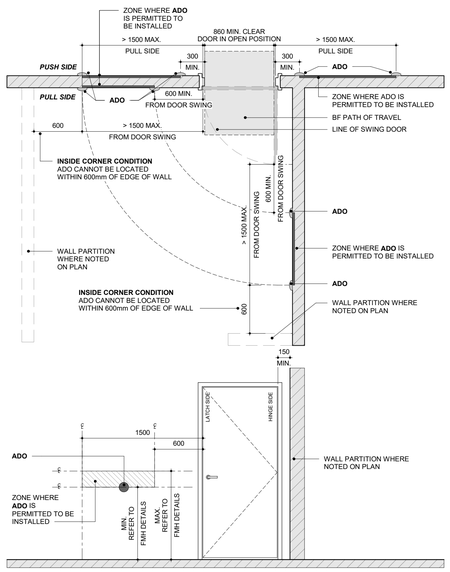



**EXECUTION NOTES**

1. DETAIL PROVIDED IS SUPPLEMENTAL TO MANUFACTURES INFORMATION.
2. INSTALL ALL FIRE DAMPERS PER MANUFACTURES INSTRUCTIONS.
3. SUBMIT SHOP DRAWINGS TO CONSULANT FOR REVIEW PRIOR TO INSTALLATION.
4. TYPE A FIRE DAPER SHOWN. DETAIL SHALL BE APPLIED TO ALL SPECIFIED DAMPER TYPES.
5. VERTICAL DETAIL ILLUSTRATED.
6. ENSURE TO MAINTAIN FIRE RESISTANCE RATING

## 3 TYP. FRR DETAIL - FIRE DAMPER INSTALLATION

1 : 5

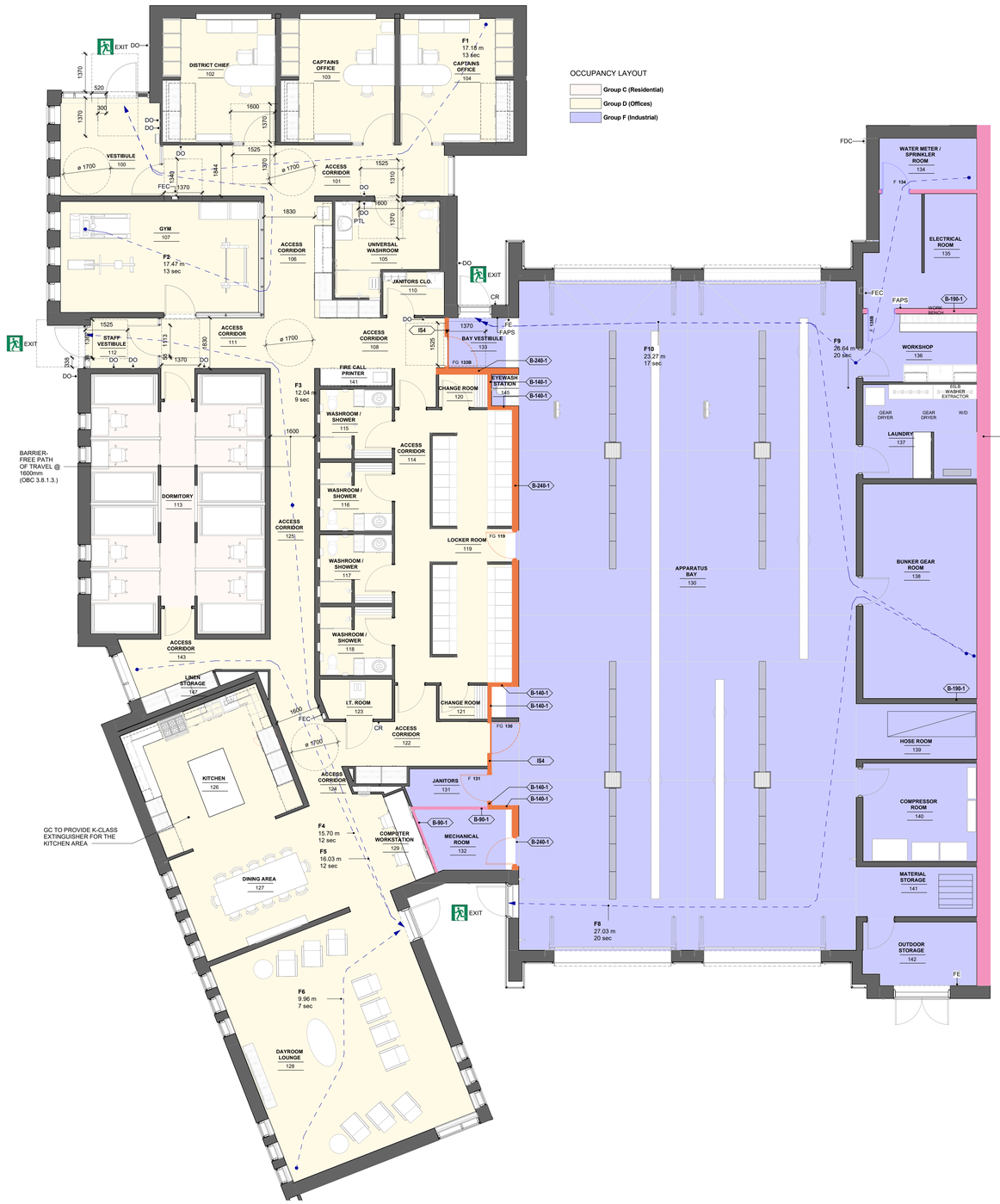



***GENERAL NOTE***

1. DETAIL PROVIDED TO GUIDE GENERAL CONTRACTOR IN THE INSTALLATION REQUIREMENTS OF THE AUTO DOOR OPERATORS IN VARIOUS LOCATIONS.
2. GENERAL CONTRACTOR SHALL REVIEW & COORDINATE WITH ARCHTIECTURAL & ELECTRICAL DRAWINGS FOR DESIRED LOCATIONS.

## 4 FMH - PLAN OF ADO INSTALLATION REQUIREMENTS

1 : 30




## 1 GROUND FLOOR PLAN

1 : 75

## FIRE EXIT TRAVEL DISTANCE

| TAG | FROM ROOM | TO ROOM | REQUIRED DISTANCE | MEASURED TRAVEL | COMPLIANCE |
|---|---|---|---|---|---|
| GROUP D | | | | | |
| F1 | CAPTAINS OFFICE 104 | VESTIBULE 100 | 40 m | 17.18 m | YES |
| F2 | GYM 107 | VESTIBULE 100 | 40 m | 17.47 m | YES |
| F3 | ACCESS CORRIDOR 125 | | 40 m | 12.04 m | YES |
| F4 | ACCESS CORRIDOR 143 | DAYROOM LOUNGE 128 | 40 m | 15.7 m | YES |
| F5 | ACCESS CORRIDOR 125 | DAYROOM LOUNGE 128 | 40 m | 16.03 m | YES |
| F6 | DAYROOM LOUNGE 128 | DAYROOM LOUNGE 128 | 40 m | 9.96 m | YES |
| GROUP F3 | | | | | |
| F8 | BUNKER GEAR ROOM 138 | | 45 m | 27.03 m | YES |
| F9 | BUNKER GEAR ROOM 138 | BAY VESTIBULE 133 | 45 m | 26.64 m | YES |
| F10 | WATER METER / SPRINKLER ROOM 134 | BAY VESTIBULE 133 | 45 m | 23.27 m | YES |

## GENERAL NOTES - FIRE & LIFE SAFETY

***1. GENERAL REQUIREMENTS***

1. FLOOR PLANS ON THIS DRAWING ARE INTENDED FOR FIRE SEPARATION, FIRE RESISTANCE RATINGS, AND ADDA ONLY. REFER TO A03.00 DRAWING SERIES FOR FLOOR PLAN NOTES AND DIMENSIONS.
2. FOR WALL ASSEMBLIES THAT BEAR THE NOTE "CONSTRUCT AS FIRE SEPARATION WHERE NOTED", THE ASSEMBLY SHALL BE CONSTRUCTED AS A FIRE SEPARATION AT THE LOCATIONS INDICATED IN THE CONTRACT DRAWINGS.
3. ALL PENETRATIONS THROUGH NEW AND EXISTING FIRE SEPARATIONS ARE TO BE SEALED TO MEET REQUIREMENTS OF THE SEPARATION NOTED.
4. PROVIDE FIRESTOPPING AND SMOKE SEALS IN ACCORDANCE WITH CODE REQUIREMENTS, AT OPENINGS AND AROUND PENETRATIONS, AT UN-PENETRATED OPENINGS, AT PROJECTING AND RECESSED ITEMS AND AT OPENINGS AND JOINTS WITHIN FIRE SEPARATIONS AND ASSEMBLIES HAVING FIRE RESISTANCE RATING, EXCLUDING THOSE INSIDE SEALED MECHANICAL AND ELECTRICAL ASSEMBLIES (E.G. INSIDE DUCTS, DAMPERS, BUS DUCTS, ETC.).
5. AT RECESSED PANEL INSTALLATIONS (E.G. ELECTRICAL PANELS) WITHIN RATED WALLS PROVIDE FOR CONTINUITY OF THE REQUIRED RATING BEHIND THE PANEL. REFER TO THE ONTARIO BUILDING CODE DIVISION B, SECTION 3.1.9.2 FOR REQUIREMENTS FOR COMBUSTIBILITY OF SERVICE PENETRATIONS AND SECTION 3.1.10.2 FOR RATING OF FIREWALLS.
6. WHERE FIRE RATED PARTITIONS ABUT NON-RATED PARTITIONS THE FIRE RATED ASSEMBLY SHALL BE CONTINUOUS AND UNINTERRUPTED BY THE ABUTTING WALLS TO MAINTAIN A CONTINUOUS FIRE SEPARATION.
7. SEAL PERIMETER OF FIRE RATED WALLS AND AROUND PENETRATIONS THROUGH FIRE RATED WALLS WITH APPROVED FIRESTOP MATERIALS. DO NOT SEAL CLEARANCE SPACES WITHIN FIRE DAMPERS. SEAL ONLY IN STRICT ACCORDANCE WITH MANUFACTURERS INSTRUCTIONS.
8. ENSURE SEAL PROVIDES AND MAINTAINS A FIRE-RESISTANCE RATING AS DETERMINED BY OBC FOR ADJACENT FLOOR, WALL OR OTHER FIRE SEPARATION ASSEMBLY TO REQUIREMENTS OF AND AS ACCEPTABLE TO AUTHORITIES HAVING JURISDICTION AND TO CONSULTANT.
9. ENSURE FIRESTOP SYSTEMS INTENDED FOR INSTALLATION IN FIRE SEPARATIONS HAVE ASSIGNED FIRE RATINGS AS DEFINED HEREIN WHEN TESTED IN ACCORDANCE WITH CAN/ULC-S115. ENSURE FIRESTOP SYSTEMS INTENDED FOR USE IN FIRE RESISTIVE WALL AND/OR FLOOR ASSEMBLIES ARE EVALUATED IN ACCORDANCE WITH CAN/ULC-S101 (REFER TO ULC GUIDE NO. 40 U19).

## FIRE AND LIFE SAFETY LEGEND

**WALL ASSEMBLY FRR REQUIREMENTS**

- 0HR FRR SEPERATION
- 45MIN FRR SEPERATION
- 1HR FRR SEPERATION
- 1.5HR FRR SEPERATION
- 2HR FRR SEPERATION
- 3HR FRR SEPERATION
- 4HR FRR SEPERATION
- EXIT PATH & TRAVEL DISTANCE
- FIRE HOSE LENGTH

**SYMBOL LEGEND**

- EXIT SIGNAGE- WALL/CEILING MOUNTED
- RFHC — FIRE HOSE CABINET - SEMI RECESSED
- FHC — FIRE HOSE CABINET - SURFACE MOUNTED
- EXIT — LOCATION OF EXIT
- AS — WALL MOUNTED STROBE
- WALL MOUNTED HORN/STROBE
- FAPS — MANUAL FIRE ALARM PULL STATION

## OCCUPANCY AREA SCHEDULE

| OCCUPANCY | RM# | ROOM NAME | AREA | % |
|---|---|---|---|---|
| Group C (Residential) | | | | |
| Group C (Residential) | 113 | DORMITORY | 54.53 m² | 6% |
| | | | 54.53 m² | 6% |
| Group D (Offices) | | | | |
| Group D (Offices) | 100 | VESTIBULE | 12.1 m² | 1% |
| Group D (Offices) | 101 | ACCESS CORRIDOR | 18.76 m² | 2% |
| Group D (Offices) | 102 | DISTRICT CHIEF | 18.19 m² | 2% |
| Group D (Offices) | 103 | CAPTAINS OFFICE | 18.36 m² | 2% |
| Group D (Offices) | 104 | CAPTAINS OFFICE | 18.3 m² | 2% |
| Group D (Offices) | 105 | UNIVERSAL WASHROOM | 10.98 m² | 1% |
| Group D (Offices) | 106 | ACCESS CORRIDOR | 11.81 m² | 1% |
| Group D (Offices) | 107 | GYM | 28.73 m² | 3% |
| Group D (Offices) | 108 | ACCESS CORRIDOR | 10.61 m² | 1% |
| Group D (Offices) | 110 | JANITORS CLO. | 3.47 m² | 0% |
| Group D (Offices) | 111 | ACCESS CORRIDOR | 8.27 m² | 1% |
| Group D (Offices) | 112 | STAFF VESTIBULE | 4.54 m² | 1% |
| Group D (Offices) | 114 | ACCESS CORRIDOR | 12.54 m² | 1% |
| Group D (Offices) | 115 | WASHROOM / SHOWER | 6.52 m² | 1% |
| Group D (Offices) | 116 | WASHROOM / SHOWER | 6.44 m² | 1% |
| Group D (Offices) | 117 | WASHROOM / SHOWER | 6.44 m² | 1% |
| Group D (Offices) | 118 | WASHROOM / SHOWER | 6.46 m² | 1% |
| Group D (Offices) | 119 | LOCKER ROOM | 25.93 m² | 3% |
| Group D (Offices) | 120 | CHANGE ROOM | 2.1 m² | 0% |
| Group D (Offices) | 121 | CHANGE ROOM | 2.15 m² | 0% |
| Group D (Offices) | 122 | ACCESS CORRIDOR | 12.16 m² | 1% |
| Group D (Offices) | 123 | I.T. ROOM | 3.61 m² | 0% |
| Group D (Offices) | 124 | ACCESS CORRIDOR | 12.25 m² | 1% |
| Group D (Offices) | 125 | ACCESS CORRIDOR | 22.59 m² | 3% |
| Group D (Offices) | 126 | KITCHEN | 25.35 m² | 3% |
| Group D (Offices) | 127 | DINING AREA | 21.47 m² | 2% |
| Group D (Offices) | 128 | DAYROOM LOUNGE | 59.53 m² | 7% |
| Group D (Offices) | 129 | COMPUTER WORKSTATION | 6.03 m² | 1% |
| Group D (Offices) | 141 | FIRE CALL PRINTER | 1.61 m² | 0% |
| Group D (Offices) | 143 | ACCESS CORRIDOR | 8.73 m² | 1% |
| Group D (Offices) | 147 | LINEN STORAGE | 1.76 m² | 0% |
| | | | 407.77 m² | 46% |
| Group F (Industrial) | | | | |
| Group F (Industrial) | 130 | APPARATUS BAY | 296.44 m² | 33% |
| Group F (Industrial) | 130 | APPARATUS BAY | 1.65 m² | 0% |
| Group F (Industrial) | 131 | JANITORS | 3.89 m² | 0% |
| Group F (Industrial) | 132 | MECHANICAL ROOM | 6.39 m² | 1% |
| Group F (Industrial) | 133 | BAY VESTIBULE | 3.8 m² | 0% |
| Group F (Industrial) | 134 | WATER METER / SPRINKLER ROOM | 6.54 m² | 1% |
| Group F (Industrial) | 135 | ELECTRICAL ROOM | 15.55 m² | 2% |
| Group F (Industrial) | 136 | WORKSHOP | 10.11 m² | 1% |
| Group F (Industrial) | 137 | LAUNDRY | 13.82 m² | 2% |
| Group F (Industrial) | 138 | BUNKER GEAR ROOM | 31.83 m² | 4% |
| Group F (Industrial) | 139 | HOSE ROOM | 8.7 m² | 1% |
| Group F (Industrial) | 140 | COMPRESSOR ROOM | 14.59 m² | 2% |
| Group F (Industrial) | 141 | MATERIAL STORAGE | 7.81 m² | 1% |
| Group F (Industrial) | 142 | OUTDOOR STORAGE | 9.22 m² | 1% |
| Group F (Industrial) | 145 | EYEWASH STATION | 0.59 m² | 0% |
| | | | 430.93 m² | 48% |
| Grand total | | | 893.23 m² | 100% |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SEALS

ONTARIO ASSOCIATION OF ARCHITECTS — 1 — DAVID PREMI — LICENCE 4316

MISSISSAUGA

**CITY OF MISSISSAUGA FIRE STATION 123**

3050 THE COLLEGEWAY MISSISSAUGA, ONTARIO CANADA

| | |
|---|---|
| **SITE PLAN APPLICATION #** | SP 24-3 |
| **DEVELOPMENT TYPE** | EMERGENCY SERVICES |
| **LEGAL DESCRIPTION** | PART OF BLOCK 124 REGISTERED PLAN 43M-745 |
| **APPLICANT INFO** | DAVID PREMI, 25 MAIN ST. W, SUITE 1800, HAMILTON, ON L8P 1H1 905.522.0220 |
| **OWNER INFO** | CITY OF MISSISSAUGA, ADRIANA TANTALO, 300 CITY CENTRE DRIVE 905.615.3200 X 3395 |

| NO. | ISSUES/REVISIONS | DATE |
|---|---|---|
| 11 | TENDER | 05/06/24 |
| 10 | BP-RESUBMISSION | 03/27/24 |
| 9 | SPA RESUBMISSION | 03/12/24 |
| 8 | BP - RESUBMISSION | 02/23/24 |
| 7 | PERMIT | 01/22/24 |
| 6 | CLASS A ESTIMATE | 01/22/24 |
| 5 | 90% CD SUBMISSION | 1/22/24 |
| 4 | FORMAL SPA | 12/05/23 |
| 3 | MINOR VARIANCE APPLICATION | 09/08/23 |
| 2 | PAM 1 RE-SUBMISSION | 09/07/23 |
| 1 | PRELIMINARY ZONING REVIEW RE-SUBMISSION | 08/02/23 |
| 0 | SPA PRE-CONSULTATION | 03/28/23 |

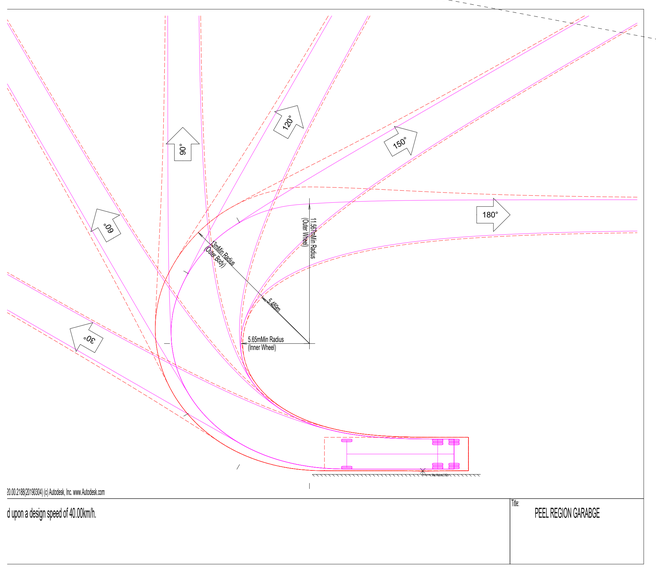
DRAWING TITLE:

**FIRE, LIFE SAFETY, & OBC REQUIREMENTS PLAN**

| | |
|---|---|
| ISSUE DATE: | 05/06/24 |
| DRAWN BY: SRL/AF | CHECKED BY: SRL |
| PROJECT NO.: 12301 | SCALE: As indicated |
| DRAWING NO.: | REVISION: |

**A01.00** — **11**

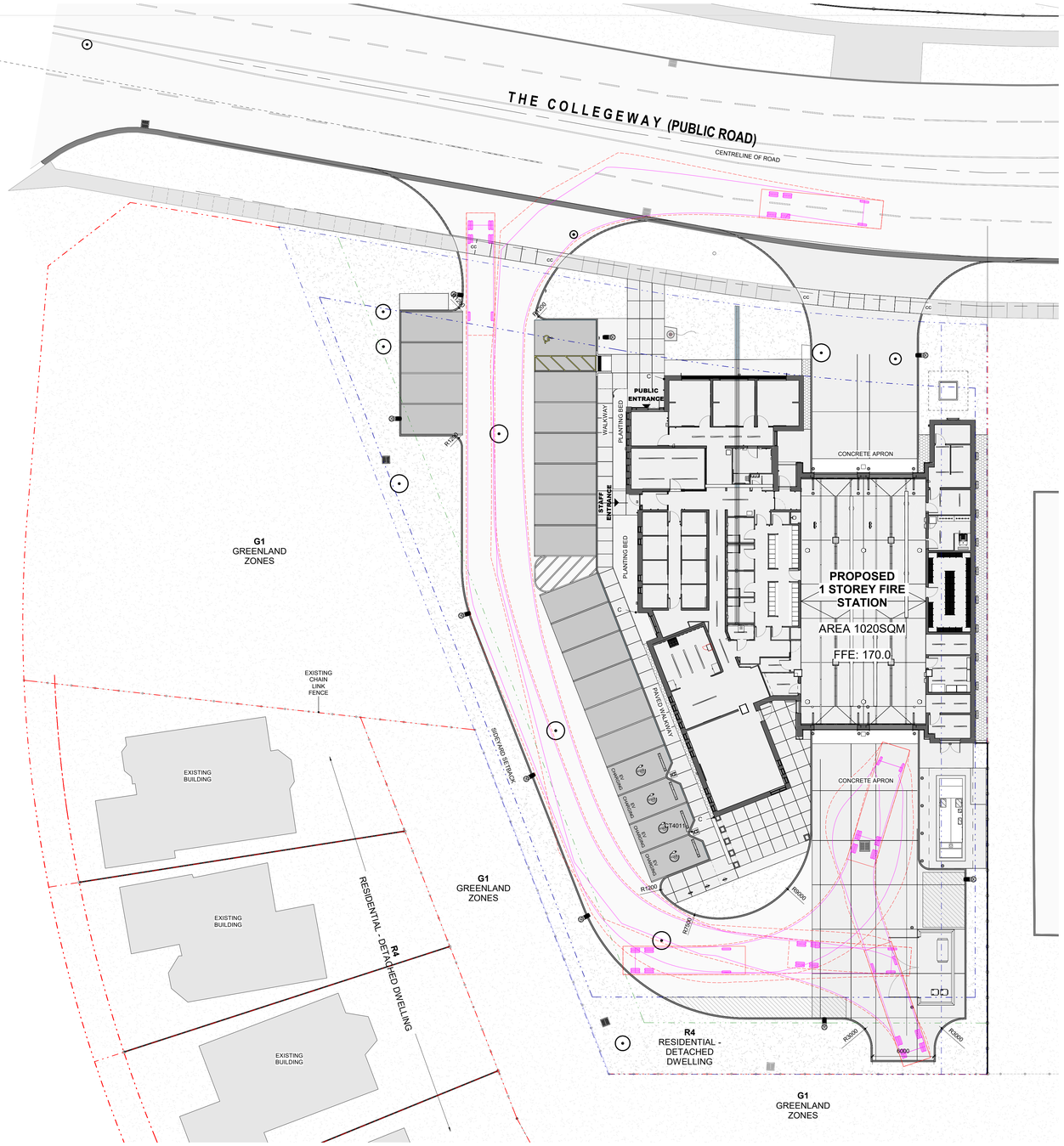

PLOT DATE: 2024-05-06 4:03:06 PM




31.00.218(20190304) (c) Autodesk, Inc. www.Autodesk.com

d upon a design speed of 40.00km/h.

PEEL REGION GARBAGE




**1** SITE PLAN - PEEL REGION GARBAGE COLLECTION TRACKING SWEEP
1 : 200

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SEALS

ONTARIO ASSOCIATION OF ARCHITECTS
DAVID PREMI
LICENCE
4316

MISSISSAUGA

**CITY OF MISSISSAUGA FIRE STATION 123**

3050 THE COLLEGEWAY MISSISSAUGA, ONTARIO CANADA

| | |
|---|---|
| **SITE PLAN APPLICATION #** | SP 24-3 |
| **DEVELOPMENT TYPE** | EMERGENCY SERVICES |
| **LEGAL DESCRIPTION** | PART OF BLOCK 124 REGISTERED PLAN 43M-745 |
| **APPLICANT INFO** | DAVID PREMI, 25 MAIN ST. W, SUITE 1800, HAMILTON, ON L8P 1H1<br>905.522.0220 |
| **OWNER INFO** | CITY OF MISSISSAUGA, ADRIANA TANTALO, 300 CITY CENTRE DRIVE<br>905.615.3200 X 3395 |

| NO. | ISSUES/REVISIONS | DATE |
|---|---|---|
| 10 | TENDER | 05/06/24 |
| 9 | SPA RESUBMISSION | 03/12/24 |
| 8 | BP - RESUBMISSION | 02/23/24 |
| 7 | PERMIT | 01/22/24 |
| 6 | CLASS A ESTIMATE | 01/22/24 |
| 5 | 90% CD SUBMISSION | 1/22/24 |
| 4 | FORMAL SPA | 12/05/23 |
| 3 | MINOR VARIANCE APPLICATION | 09/08/23 |
| 2 | PAM 1 RE-SUBMISSION | 09/07/23 |
| 1 | PRELIMINARY ZONING REVIEW RE-SUBMISSION | 08/02/23 |
| 0 | SPA PRE-CONSULTATION | 03/28/23 |

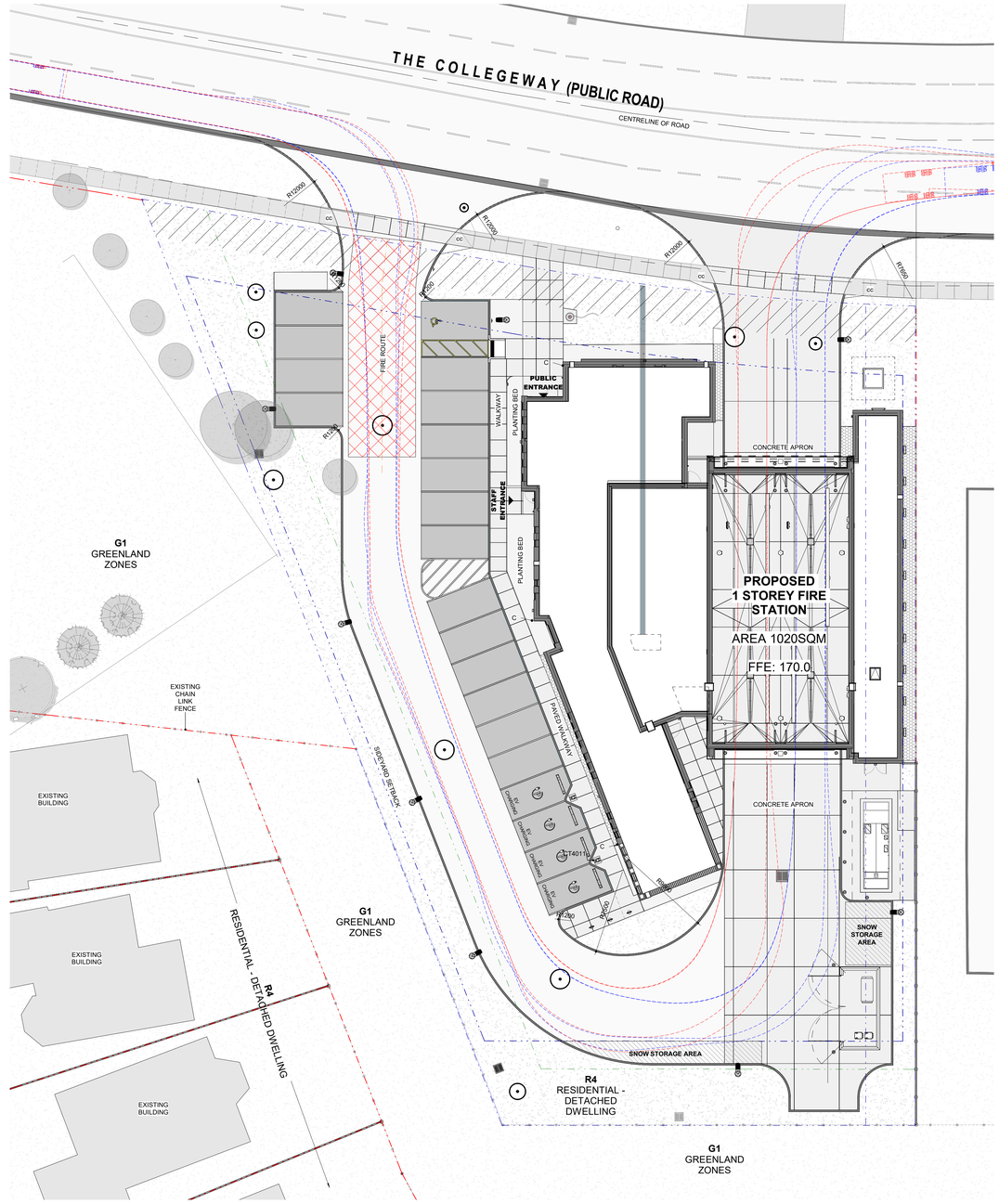
DRAWING TITLE:

**PEEL REGION GARBAGE COLLECTION TRACKING SWEEP**

| | |
|---|---|
| ISSUE DATE: | 05/06/24 |
| DRAWN BY: SRL/AF | CHECKED BY: SRL |
| PROJECT NO.: 12301 | SCALE: 1 : 200 |
| DRAWING NO.: | REVISION: |

**A01.01** **10**

LAST DATE 2024-05-03 4:53:39 AM




**1** SITE PLAN - AERIAL FIRE TRUCK TRACKING SWEEP
1 : 200

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SEALS

ONTARIO ASSOCIATION OF ARCHITECTS
DAVID PREMI
LICENCE
4315

MISSISSAUGA

**CITY OF MISSISSAUGA FIRE STATION 123**

3050 THE COLLEGEWAY MISSISSAUGA, ONTARIO CANADA

| | |
|---|---|
| **SITE PLAN APPLICATION #** | SP 24-3 |
| **DEVELOPMENT TYPE** | EMERGENCY SERVICES |
| **LEGAL DESCRIPTION** | PART OF BLOCK 124 REGISTERED PLAN 43M-745 |
| **APPLICANT INFO** | DAVID PREMI, 25 MAIN ST. W, SUITE 1800, HAMILTON, ON L8P 1H1<br>905.522.0220 |
| **OWNER INFO** | CITY OF MISSISSAUGA, ADRIANA TANTALO, 300 CITY CENTRE DRIVE<br>905.615.3200 X 3395 |

| NO. | ISSUES/REVISIONS | DATE |
|---|---|---|
| 10 | TENDER | 05/06/24 |
| 9 | SPA RESUBMISSION | 03/12/24 |
| 8 | BP - RESUBMISSION | 02/23/24 |
| 7 | PERMIT | 01/22/24 |
| 6 | CLASS A ESTIMATE | 01/22/24 |
| 5 | 90% CD SUBMISSION | 1/22/24 |
| 4 | FORMAL SPA | 12/05/23 |
| 3 | MINOR VARIANCE APPLICATION | 09/08/23 |
| 2 | PAM 1 RE-SUBMISSION | 09/07/23 |
| 1 | PRELIMINARY ZONING REVIEW RE-SUBMISSION | 08/02/23 |
| 0 | SPA PRE-CONSULTATION | 03/28/23 |

DRAWING TITLE:

**AERIAL FIRE TRUCK TRACKING SWEEP**

| | |
|---|---|
| ISSUE DATE: | 05/06/24 |
| DRAWN BY: SRL/AF | CHECKED BY: SRL |
| PROJECT NO.: 12301 | SCALE: 1 : 200 |
| DRAWING NO.: | REVISION: |

**A01.02** | **10**

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ONTARIO BUILDING CODE DATA MATRIX

SPATIAL SEPARATION INTERPOLATION SUPPLEMENT — OBC 3.2.3.1.

## NORTH BUILDING ELEVATION

| | |
|---|---|
| Building or Fire Compartment Sprinklered | Yes |
| Occupancy Type | D |
| Actual Exposing Building Face ($m^2$): | 207.0 |
| Actual Limiting Distance (m): | 21.5 |
| Unprotected Wall Opening Area (m²) | 99.0 |
| Exposing Building Face Length (m) | 35.8 |
| Exposing Building Face Height (m) | 7.8 |
| Actual Ratio (L/H OR H/L) | N/A |
| Permitted Ratio (L/H OR H/L) | N/A |

| | |
|---|---|
| Type of Construction Required | Combustible, Encapsulated Mass Timber Construction, or Noncombustible |
| Type of Cladding Required | Combustible or Noncombustible(1)(2) |
| Fire Resistance Rating | Not Required |

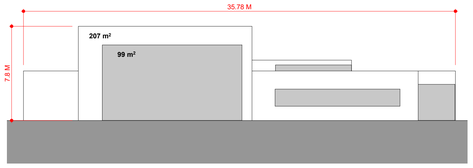
Limiting Distances from the Tables

Less Than and More Than the Actual Limiting Distance from the Drawings

| LD_1 (< 21.5 m actual) | LD_2 (> 21.5 m actual) | |
|---|---|---|
| 9.0 | 22.5 | Limiting Distance from OBC Tables |

| | Area of Exposing Building Face from OBC Tables | Max. Area of Unprotected Openings at LD_1 | Max. Area of Unprotected Openings at LD_2 |
|---|---|---|---|
| EBF_1 (< 207 m2 actual): | 150 | 100 | 100 |
| EBF_2 (> 207 m2 actual): | 500 | 100 | 100 |
| Intermediate Interpolated Unprotected Opening % Values: | | **100.0** | **100.0** |

| | |
|---|---|
| **Maximum Area of Unprotected Openings Permitted % Value:** | **100.0%** |
| **Unprotected Opening % Value Proposed** | **47.8%** |




**3** BUILDING ELEVATION FROM 1/A01.03

1 : 200

ONTARIO BUILDING CODE DATA MATRIX

SPATIAL SEPARATION INTERPOLATION SUPPLEMENT — OBC 3.2.3.1.

## SOUTH BUILDING ELEVATION

| | |
|---|---|
| Building or Fire Compartment Sprinklered | Yes |
| Occupancy Type | D |
| Actual Exposing Building Face ($m^2$): | 189.0 |
| Actual Limiting Distance (m): | 25.0 |
| Unprotected Wall Opening Area (m²) | 90.0 |
| Exposing Building Face Length (m) | 31.9 |
| Exposing Building Face Height (m) | 7.8 |
| Actual Ratio (L/H OR H/L) | N/A |
| Permitted Ratio (L/H OR H/L) | N/A |

| | |
|---|---|
| Type of Construction Required | Combustible, Encapsulated Mass Timber Construction, or Noncombustible |
| Type of Cladding Required | Combustible or Noncombustible(1)(2) |
| Fire Resistance Rating | Not Required |

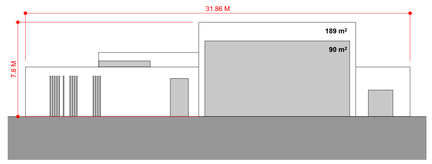
Limiting Distances from the Tables

Less Than and More Than the Actual Limiting Distance from the Drawings

| LD_1 (< 25 m actual) | LD_2 (> 25 m actual) | |
|---|---|---|
| 9.0 | 26.0 | Limiting Distance from OBC Tables |

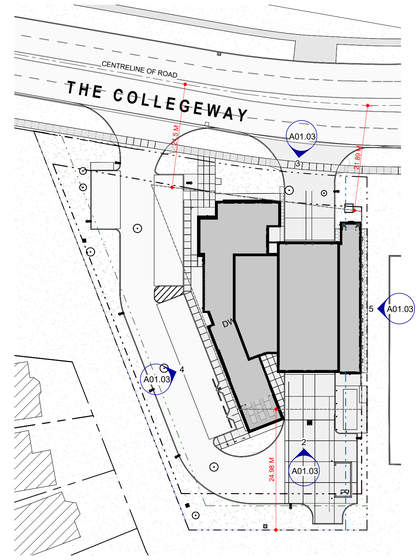
| | Area of Exposing Building Face from OBC Tables | Max. Area of Unprotected Openings at LD_1 | Max. Area of Unprotected Openings at LD_2 |
|---|---|---|---|
| EBF_1 (< 189 m2 actual): | 150 | 100 | 100 |
| EBF_2 (> 189 m2 actual): | 500 | 100 | 100 |
| Intermediate Interpolated Unprotected Opening % Values: | | **100.0** | **100.0** |

| | |
|---|---|
| **Maximum Area of Unprotected Openings Permitted % Value:** | **100.0%** |
| **Unprotected Opening % Value Proposed** | **47.6%** |




**2** BUILDING ELEVATION FROM 1/A01.03

1 : 200




**1** OBC LIMITING DISTANCE PLAN

1 : 500

ONTARIO BUILDING CODE DATA MATRIX

SPATIAL SEPARATION INTERPOLATION SUPPLEMENT — OBC 3.2.3.1.

## WEST BUILDING ELEVATION

| | |
|---|---|
| Building or Fire Compartment Sprinklered | Yes |
| Occupancy Type | D |
| Actual Exposing Building Face ($m^2$): | 268.0 |
| Actual Limiting Distance (m): | 18.6 |
| Unprotected Wall Opening Area (m²) | 64.0 |
| Exposing Building Face Length (m) | 42.4 |
| Exposing Building Face Height (m) | 7.8 |
| Actual Ratio (L/H OR H/L) | N/A |
| Permitted Ratio (L/H OR H/L) | N/A |

| | |
|---|---|
| Type of Construction Required | Combustible, Encapsulated Mass Timber Construction, or Noncombustible |
| Type of Cladding Required | Combustible or Noncombustible(1)(2) |
| Fire Resistance Rating | Not Required |

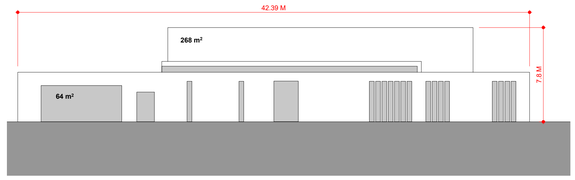
Limiting Distances from the Tables

Less Than and More Than the Actual Limiting Distance from the Drawings

| LD_1 (< 18.6 m actual) | LD_2 (> 18.6 m actual) | |
|---|---|---|
| 9.0 | 19.6 | Limiting Distance from OBC Tables |

| | Area of Exposing Building Face from OBC Tables | Max. Area of Unprotected Openings at LD_1 | Max. Area of Unprotected Openings at LD_2 |
|---|---|---|---|
| EBF_1 (< 268 m2 actual): | 150 | 100 | 100 |
| EBF_2 (> 268 m2 actual): | 500 | 100 | 100 |
| Intermediate Interpolated Unprotected Opening % Values: | | **100.0** | **100.0** |

| | |
|---|---|
| **Maximum Area of Unprotected Openings Permitted % Value:** | **100.0%** |
| **Unprotected Opening % Value Proposed** | **23.9%** |




**4** BUILDING ELEVATION FROM 1/A01.03

1 : 200

ONTARIO BUILDING CODE DATA MATRIX

SPATIAL SEPARATION INTERPOLATION SUPPLEMENT — OBC 3.2.3.1.

## EAST BUILDING ELEVATION

| | |
|---|---|
| Building or Fire Compartment Sprinklered | Yes |
| Occupancy Type | D |
| Actual Exposing Building Face ($m^2$): | 271.0 |
| Actual Limiting Distance (m): | 1.2 |
| Unprotected Wall Opening Area (m²) | 7.0 |
| Exposing Building Face Length (m) | 41.8 |
| Exposing Building Face Height (m) | 7.8 |
| Actual Ratio (L/H OR H/L) | N/A |
| Permitted Ratio (L/H OR H/L) | N/A |

| | |
|---|---|
| Type of Construction Required | Combustible, Encapsulated Mass Timber Construction, or Noncombustible |
| Type of Cladding Required | Noncombustible |
| Fire Resistance Rating | 1 Hour |

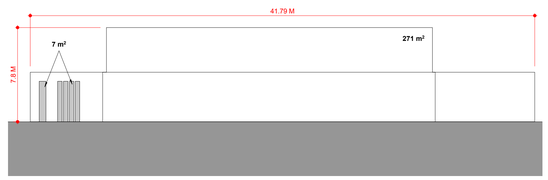
Limiting Distances from the Tables

Less Than and More Than the Actual Limiting Distance from the Drawings

| LD_1 (< 1.2 m actual) | LD_2 (> 1.2 m actual) | |
|---|---|---|
| 1.2 | 1.5 | Limiting Distance from OBC Tables |

| | Area of Exposing Building Face from OBC Tables | Max. Area of Unprotected Openings at LD_1 | Max. Area of Unprotected Openings at LD_2 |
|---|---|---|---|
| EBF_1 (< 271 m2 actual): | 150 | 14 | 14 |
| EBF_2 (> 271 m2 actual): | 500 | 14 | 14 |
| Intermediate Interpolated Unprotected Opening % Values: | | **14.0** | **14.0** |

| | |
|---|---|
| **Maximum Area of Unprotected Openings Permitted % Value:** | **14.0%** |
| **Unprotected Opening % Value Proposed** | **2.6%** |




**5** BUILDING ELEVATION FROM 1/A01.03

1 : 200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SEALS

ONTARIO ASSOCIATION OF ARCHITECTS — JAMES ANTHONY FRANK — LICENCE 4316

MISSISSAUGA

**CITY OF MISSISSAUGA FIRE STATION 123**

3050 THE COLLEGEWAY MISSISSAUGA, ONTARIO CANADA

| | |
|---|---|
| **SITE PLAN APPLICATION #** | SP 24-3 |
| **DEVELOPMENT TYPE** | EMERGENCY SERVICES |
| **LEGAL DESCRIPTION** | PART OF BLOCK 124 REGISTERED PLAN 43M-745 |
| **APPLICANT INFO** | DAVID PREMI, 25 MAIN ST. W, SUITE 1800, HAMILTON, ON L8P 1H1 905.522.0220 |
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| NO. | ISSUES/REVISIONS | DATE |
|---|---|---|
| 10 | TENDER | 05/06/24 |
| 9 | SPA RESUBMISSION | 03/12/24 |
| 8 | BP - RESUBMISSION | 02/23/24 |
| 7 | PERMIT | 01/22/24 |
| 6 | CLASS A ESTIMATE | 01/22/24 |
| 5 | 90% CD SUBMISSION | 1/22/24 |
| 4 | FORMAL SPA | 12/05/23 |
| 3 | MINOR VARIANCE APPLICATION | 09/08/23 |
| 2 | PAM 1 RE-SUBMISSION | 09/07/23 |
| 1 | PRELIMINARY ZONING REVIEW RE-SUBMISSION | 08/02/23 |
| 0 | SPA PRE-CONSULTATION | 03/28/23 |

DRAWING TITLE:

**OBC LIMITING DISTANCE REVIEW**

| | |
|---|---|
| ISSUE DATE: | 05/06/24 |
| DRAWN BY: SRL/AF | CHECKED BY: SRL |
| PROJECT NO.: 12301 | SCALE: As indicated |

DRAWING NO.: **A01.03**

REVISION: **10**


PLOT DATE: 2024-05-03 4:44:45 AM

# THE COLLEGEWAY

SURVEYOR'S REAL PROPERTY REPORT

PLAN OF SURVEY WITH TOPOGRAPHY OF
PART OF BLOCK 124
REGISTERED PLAN 43M-745
CITY OF MISSISSAUGA
REGIONAL MUNICIPALITY OF PEEL

SCALE 1 : 200

5 0 5 10 metres

TARASICK McMILLAN KUBICKI LIMITED
ONTARIO LAND SURVEYORS

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REPORT SUMMARY

PROPERTY DESCRIPTION: PART OF BLOCK 124, REGISTERED PLAN 43M-745, DESIGNATED AS PARTS 1 AND 2, PLAN 43R-35476, CITY OF MISSISSAUGA, REGIONAL MUNICIPALITY OF PEEL, PIN 13416-0444.

EASEMENTS/RIGHTS-OF-WAY: SUBJECT TO EASEMENT OVER PART 2, PLAN 43R-35476 IN FAVOUR OF HYDRO-ELECTRIC COMMISSION OF MISSISSAUGA AS IN LT810132.

COMMENTS: NOTE LOCATION OF FENCES.

METRIC

DISTANCES SHOWN ON THIS PLAN ARE IN METRES AND CAN BE CONVERTED TO FEET BY DIVIDING BY 0.3048.

ELEVATION NOTE

ELEVATIONS ARE REFERRED TO CANADIAN GEODETIC VERTICAL DATUM-1928, AND WERE DERIVED FROM CITY OF MISSISSAUGA BENCHMARK No. 824, HAVING A PUBLISHED ELEVATION OF 170.552 metres.

BEARING NOTE

BEARINGS ARE GRID AND ARE REFERRED TO THE SOUTHWESTERLY LIMIT OF PART 1 AS SHOWN ON PLAN 43R-35476, HAVING A BEARING OF N62°00'45"W.

LEGEND

| | | |
|---|---|---|
| ■ | DENOTES | SURVEY MONUMENT FOUND |
| IB | DENOTES | IRON BAR |
| SIB | DENOTES | STANDARD IRON BAR |
| TC | DENOTES | TOP OF CURB |
| BC | DENOTES | BOTTOM OF CURB |
| BB | DENOTES | BELL BOX |
| BOL | DENOTES | BOLLARD |
| CB | DENOTES | CATCH BASIN |
| CLS | DENOTES | CONCRETE LIGHT STANDARD |
| FHT | DENOTES | FIRE HYDRANT TOP |
| MH | DENOTES | MANHOLE |
| PT | DENOTES | PLAN 43R-35476 |
| ○ 1.204D | DENOTES | DECIDUOUS TREE WITH TRUNK DIAMETER |
| ⊛ 1.204C | DENOTES | CONIFEROUS TREE WITH TRUNK DIAMETER |

TREE CANOPIES ARE DRAWN TO SCALE.

PREPARED FOR:

THIS REPORT WAS PREPARED FOR THE CAPITAL DESIGN & CONSTRUCTION DEPARTMENT OF THE CITY OF MISSISSAUGA, AND THE UNDERSIGNED ACCEPTS NO RESPONSIBILITY FOR USE BY OTHER PARTIES.

SURVEYOR'S CERTIFICATE

I CERTIFY THAT:

1. THIS SURVEY AND PLAN ARE CORRECT AND IN ACCORDANCE WITH THE SURVEYS ACT, THE SURVEYORS ACT AND THE REGULATIONS MADE UNDER THEM.
2. THE SURVEY WAS COMPLETED ON APRIL 19, 2023.

APRIL 26, 2023
DATE

SIMON MARKUS
ONTARIO LAND SURVEYOR

ASSOCIATION OF ONTARIO LAND SURVEYORS
PLAN SUBMISSION FORM
V-46390
THIS PLAN IS NOT VALID UNLESS IT IS AN EMBOSSED ORIGINAL COPY ISSUED BY THE SURVEYOR
In accordance with Regulation 1026, Section 29(3)

TARASICK McMILLAN KUBICKI LIMITED
ONTARIO LAND SURVEYORS
4181 SLADEVIEW CRESCENT, UNIT 42, MISSISSAUGA, ONTARIO L5L 5R2
TEL: (905) 569-8849 FAX: (905) 569-3160
E-MAIL: office@tmksurveyors.com

DRAWN BY: M.M. FILE No.: 9764-SRPR-T

D (24"x36")

DPAI
Design Partners in Architecture and Interiors

DRAWINGS ARE NOT TO BE SCALED.

CONTRACTOR MUST VERIFY ALL DIMENSIONS ON THE JOB AND REPORT ANY DISCREPANCY TO ARCHITECTS BEFORE PROCEEDING WITH WORK.

ALL DRAWINGS AND SPECIFICATIONS ARE THE PROPERTY OF THE ARCHITECT AND MUST BE RETURNED AT THE COMPLETION OF THE WORK.

SEALS

ONTARIO ASSOCIATION OF ARCHITECTS
DAVID PREMI
LICENCE
4315

MISSISSAUGA

**CITY OF MISSISSAUGA FIRE STATION 123**

3050 THE COLLEGEWAY MISSISSAUGA, ONTARIO CANADA

| | |
|---|---|
| **SITE PLAN APPLICATION #** | SP 24-3 |
| **DEVELOPMENT TYPE** | EMERGENCY SERVICES |
| **LEGAL DESCRIPTION** | PART OF BLOCK 124 REGISTERED PLAN 43M-745 |
| **APPLICANT INFO** | DAVID PREMI, 25 MAIN ST. W, SUITE 1800, HAMILTON, ON L8P 1H1 905.622.0220 |
| **OWNER INFO** | CITY OF MISSISSAUGA, ADRIANA TANTALO, 300 CITY CENTRE DRIVE 905.615.3200 X 3395 |

| NO. | ISSUES/REVISIONS | DATE |
|---|---|---|
| 7 | TENDER | 05/06/24 |
| 6 | SPA RESUBMISSION | 03/12/24 |
| 5 | BP - RESUBMISSION | 02/23/24 |
| 4 | PERMIT | 01/22/24 |
| 3 | CLASS A ESTIMATE | 01/22/24 |
| 2 | 90% CD SUBMISSION | 1/22/24 |
| 1 | FORMAL SPA | 12/05/23 |
| 0 | SPA PRE-CONSULTATION | 03/28/23 |

DRAWING TITLE:

**SITE SURVEY**

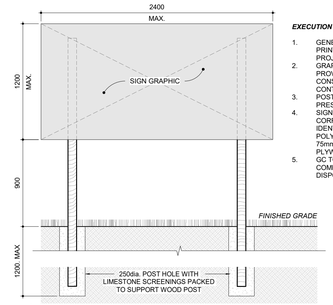
ISSUE DATE: 05/06/24

DRAWN BY: SRL/AF CHECKED BY: SRL

PROJECT NO.: 12301 SCALE:

DRAWING NO.: **A02.01** REVISION: **7**

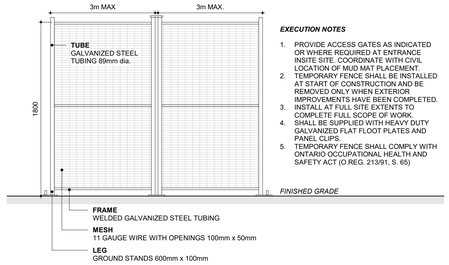
PLOT DATE: 2024-06-04 8:44:14 PM




***EXECUTION***

1. GENERAL CONTRACTOR SHALL PRINT, SUPPLY AND INSTALL PROJECT CONSTRUCTION SIGN GRAPHIC MOCKUP WILL BE PROVIDED BY OWNER / CONSULANT TO GENERAL CONTRACTOR FOR PRINTING
2. POSTS SHALL BE 100mm X 100mm PRESSURE TREATED WOOD
3. SIGN SHALL BE 12mm CORRUGATED PLASTIC (RESIGN IDENTIFICATION CODE 5 APPLIES - POLYPROPYLENE) MOUNTED TO 75mm PRESSURE TREATED PLYWOOD
4. GC TO RECYCLE SIGN AT PROJECT COMPLETION AND REMOVE / DISPOSE OF WOOD POSTS

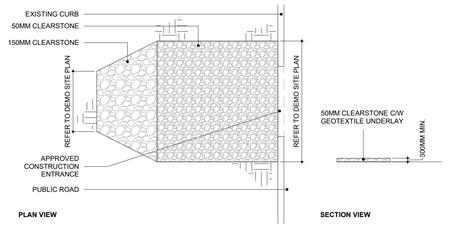
## 2 PROJECT SIGN DETAIL
1 : 25




***EXECUTION NOTES***

1. PROVIDE ACCESS GATES AS INDICATED OR WHERE REQUIRED AT ENTRANCE INSITE SITE. COORDINATE WITH CIVIL LOCATION OF MUD MAT PLACEMENT.
2. TEMPORARY FENCE SHALL BE INSTALLED AT START OF CONSTRUCTION AND BE REMOVED ONLY WHEN EXTERIOR IMPROVEMENTS HAVE BEEN COMPLETED.
3. INSTALL AT FULL SITE EXTENTS TO COMPLETE FULL SCOPE OF WORK.
4. SHALL BE SUPPLIED WITH HEAVY DUTY GALVANIZED FLAT FLOOT PLATES AND PANEL CLIPS.
5. TEMPORARY FENCE SHALL COMPLY WITH ONTARIO OCCUPATIONAL HEALTH AND SAFETY ACT (O.REG. 213/91, S. 65)

## 3 TEMPORARY CONSTRUCTION FENCING
1 : 25

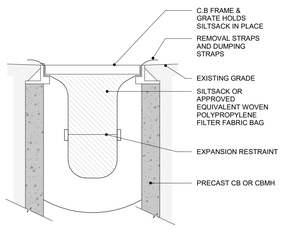



**PLAN VIEW** **SECTION VIEW**

***EXECUTION NOTES:***

1. GRANULAR MATERIAL IS TO BE CLEAN APPROVED MATERIAL AND PLACED AT NOTED DIMENSIONS PRIOR TO LAND DISTURBANCE.
2. GEOTEXTILE IS TO BE PLACED OVER THE ENTIRE AREA PRIOR TO STONE PLACEMENT.
3. MAINTENANCE- THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL REDUCE TRACKING OR FLOWING OF SEDIMENT ONTO THE R.O.W AND GRANULAR MATERIAL IS TO BE REPLACED AS REQUIRED FOR THE DURATION OF CONSTRUCTION UNTIL PAVEMENT STRUCTURE IS COMPLETED.
4. STORM INLETS BOTH ON AND IN THE PROXIMITY OF THE SITE SHALL BE PROTECTED WITH INLET CONTROL MEASURES PRIOR TO ROAD CLEANING ACTIVITIES.

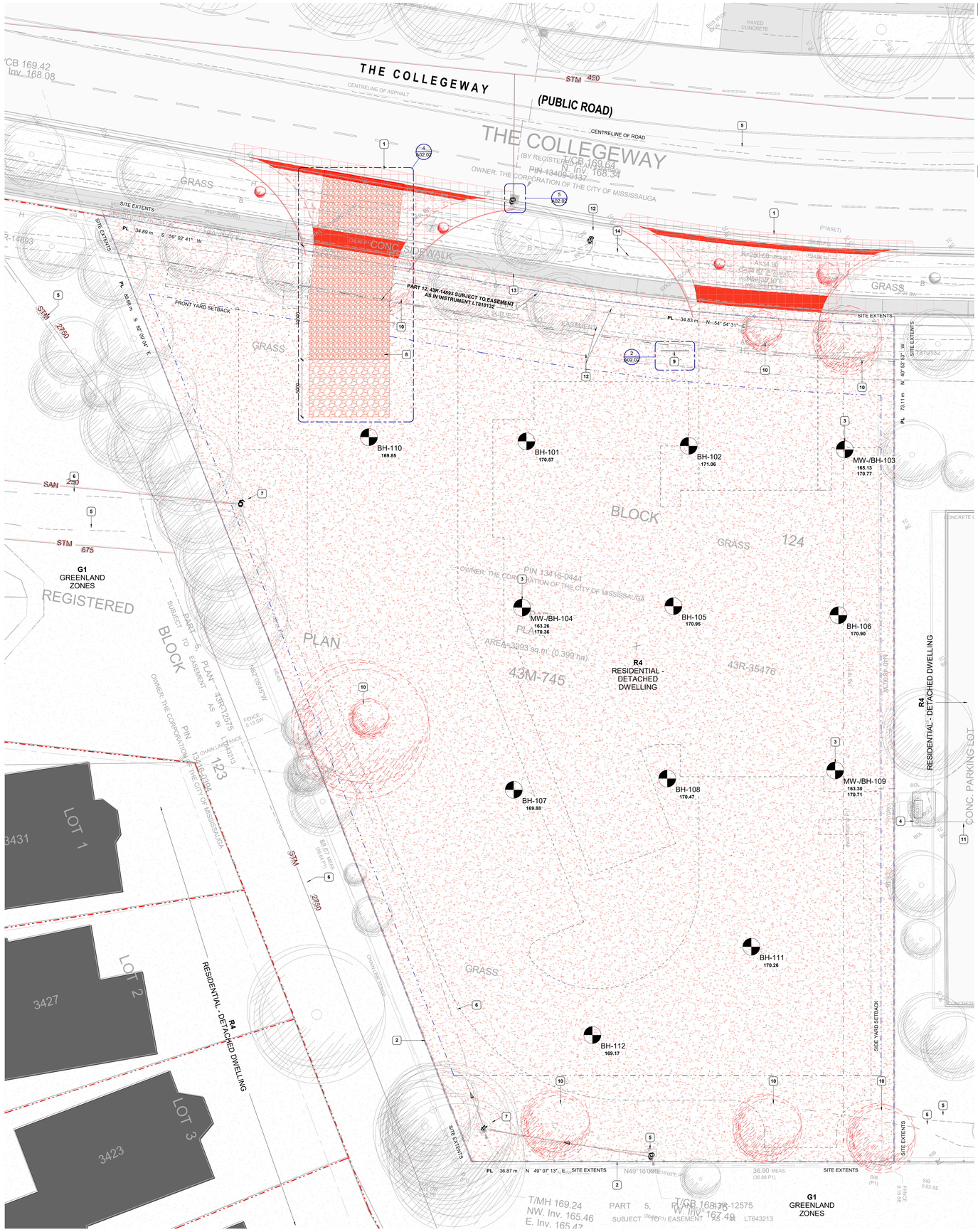
## 4 MUD MAT
1 : 200




***EXECUTION NOTES:***

1. CBST SHALL BE INSTALLED IN EXISTING CATCH BASINS THAT MAY BE IMPACTED BY THE WORK AND AS NOTED ON DEMO SITE PLANS OR AS NOTED ON CIVIL DRAWINGS.
2. CBST SHAL BE INSTALLED IN NEW CATCH BASINS IMMEDIATELY AFTER INSTALLATION.
3. CBST SIZE SELECTION SHALL BE BASED ON DIMENSIONS OF CATCH BASIN IN WHICH IT IS TO BE INSTALLED.
4. INSTALL CBST PER MANUFACTURERS INSTRUCTIONS
5. INSTALL CBST AT START OF WORK AND MAINTAIN THROUGH TO PROJECT COMPLETION.
6. GENERAL CONTRACTOR SHALL INSPECT REGULARLY AND AFTER EVERY SIGNIFICANT PRECIPITATION EVENT.
7. IT IS REQUIRED TO REMOVE ACCUMULATED MATERIAL WHEN CBST IS 1/3 FULL.
8. REPLACE DAMAGED CBST WITH NEW AS REQUIRED.
9. REFER TO CIVIL DRAWINGS FOR ADDITIONAL REQUIREMENTS

## 5 CATCH BASIN SEDIMENT TRAP DETAIL
1 : 20




## 1 SITE PLAN - DEMOLITION
1 : 150

## GENERAL NOTES - SITE PLAN - DEMOLITION

***1. GENERAL REQUIREMENTS***

1. ALL WORK SHALL CONFORM TO THE REQUIREMENTS OF ALL EXISTING BY-LAWS, CODES, MUNICIPAL GOVERNMENTS AND AUTHORITIES HAVING JURISDICTION. OBTAIN ALL PERMITS REQUIRED IN ACCORDANCE WITH THE CONTRACT.
2. DEMOLITION SCOPE SHOWN IS SCHEMATIC. CAREFUL EXAMINATION OF EXISTING SITE CONDITIONS IS REQUIRED TO DETERMINE FULL SCOPE OF DEMOLITION.
3. REFER TO SUPPLEMENTAL REPORTS LISTED UNDER SPECIFICATION SECTION - INFORMATION AVAILABLE FOR REVIEW TO DETERMINE FULL SCOPE OF DEMOLITION.
4. WHERE 'COMPLETE' OR 'COMPLETELY' IS ASSOCIATED WITH REMOVALS, THE INTENT IS THAT THE ITEM IS REMOVED IN ITS ENTIRETY INCLUDING ASSOCIATED FITTINGS AND APPURTENANCES.
5. WHERE AN ITEM IS NOTED FOR REMOVAL THAT HAS ASSOCIATED MECHANICAL OR ELECTRICAL SERVICES, THESE SERVICES SHALL BE TERMINATED AT AN APPROPRIATE LOCATION AND IN ACCORDANCE WITH ALL APPLICABLE CODES AND REGULATIONS.
6. ALECTRA WILL HAVE TO BE ON SITE TO ENCASE THE HYDRO CABLES THAT RUN BELOW THE CONCRETE APRON. THIS WORK MAY OCCUR AT THE SAME TIME AS CONSTRUCTION. THIS SHOULD BE NOTED IN THE CONTRACT DOCUMENTS.

## GENERAL NOTES - PARKLAND

I. THE APPLICANT IS RESPONSIBLE FOR THE INSTALLATION OF HOARDING TO PROTECT THE ADJACENT PARKLAND (INCLUDES PARKS, GREENBELTS, WOODLOTS) TO COMMUNITY SERVICES' STANDARDS.

II. THE APPLICANT ACCEPTS RESPONSIBILITY FOR ARRANGING ALL NECESSARY PERMITS TO ENTER AND PERFORM THE REQUIRED WORKS ON PARKLAND, AS APPROVED THROUGH THE DEVELOPMENT APPLICATION.

III. THE APPLICANT WILL PROVIDE A MINIMUM OF ONE (1) WEEK WRITTEN NOTICE TO THE MANAGER OF PARK PLANNING, AND THE MANAGER OF PARKS OPERATIONS, CITY OF MISSISSAUGA, PRIOR TO INITIATING ANY CONSTRUCTION ACTIVITIES WITHIN THE ADJOINING PARKLAND, WHICH HAD BEEN APPROVED THROUGH THE DEVELOPMENT APPLICATION.

IV. THE APPLICANT ACCEPTS THE RESPONSIBILITY FOR ARRANGING ALL NECESSARY REPAIRS TO AND THE REINSTATEMENT OF, THE ADJOINING PARKLAND, DUE TO DAMAGES INCURRED BY THE CONSTRUCTION WORKS ASSOCIATED WITH THIS APPLICATION. THESE WORKS WILL BE COMPLETED PRIOR TO SUBMITTING THE REQUEST FOR INSPECTION AND THE SUBSEQUENT REQUEST FOR THE RELEASE OF SECURITIES FROM THE COMMUNITY SERVICES DEPARTMENT.

V. THE APPLICANT ACKNOWLEDGES THAT SECURITIES BEING HELD BY THE CITY WILL BE RELEASED ONLY UPON COMPLETION OF ALL CONSTRUCTION ACTIVITIES AND THE REPAIRS/REINSTATEMENT WORKS FOR THE PARKLAND, TO THE SATISFACTION OF THE COMMUNITY SERVICES DEPARTMENT.

VI. NO CONSTRUCTION ACCESS IS PERMITTED FROM THE PARKLAND (P-349).

## SITE PLAN DEMO NOTES

| No. | NOTE |
|---|---|
| 1 | REMOVE EXISTING SOFT LANDSCAPING, CONCRETE SIDEWALK, AND CURBS AND PREP FOR NEW DRIVEWAY ACCESS |
| 2 | EXISTING CHAINLINK FENCE TO REMAIN |
| 3 | MONITORING WALLS (MW) |
| 4 | EXISTING TRANSFORMER |
| 5 | EXISTING STORM SEWER, REFER TO CIVIL |
| 6 | EXISTING SANITARY SEWER, REFER TO CIVIL |
| 7 | EXISTING MAN HOLE, REFER TO CIVIL |
| 8 | MUD MAT AS PER STD.2970.010, COORDINATE WITH LANDSCAPE AND CIVIL |
| 9 | PROJECT SIGN |
| 10 | REFER TO LANDSCAPE TREE PRESERVATION AND REMOVAL PLANS. |
| 11 | EXISTING ELECTRICAL, REFER TO CIVIL |
| 12 | EXISTING HYDRO, REFER TO CIVIL |
| 13 | EXISTING GAS, REFER TO CIVIL |
| 14 | EXISTING BELL UTILITY |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SEALS

ONTARIO ASSOCIATION OF ARCHITECTS
DAVID PREMI
LICENCE
4316

MISSISSAUGA

**CITY OF MISSISSAUGA FIRE STATION 123**

3050 THE COLLEGEWAY MISSISSAUGA, ONTARIO CANADA

| | |
|---|---|
| **SITE PLAN APPLICATION #** | SP 24-3 |
| **DEVELOPMENT TYPE** | EMERGENCY SERVICES |
| **LEGAL DESCRIPTION** | PART OF BLOCK 124 REGISTERED PLAN 43M-745 |
| **APPLICANT INFO** | DAVID PREMI, 25 MAIN ST. W, SUITE 1800, HAMILTON, ON L8P 1H1<br>905.522.0220 |
| **OWNER INFO** | CITY OF MISSISSAUGA, ADRIANA TANTALO, 300 CITY CENTRE DRIVE<br>905.615.3200 X 3395 |

| NO. | ISSUES/REVISIONS | DATE |
|---|---|---|
| 10 | TENDER | 05/06/24 |
| 9 | SPA RESUBMISSION | 03/12/24 |
| 8 | BP - RESUBMISSION | 02/23/24 |
| 7 | PERMIT | 01/22/24 |
| 6 | CLASS A ESTIMATE | 01/22/24 |
| 5 | 90% CD SUBMISSION | 1/22/24 |
| 4 | FORMAL SPA | 12/05/23 |
| 3 | MINOR VARIANCE APPLICATION | 09/08/23 |
| 2 | PAM 1 RE-SUBMISSION | 09/07/23 |
| 1 | PRELIMINARY ZONING REVIEW RE-SUBMISSION | 08/02/23 |
| 0 | SPA PRE-CONSULTATION | 03/28/23 |

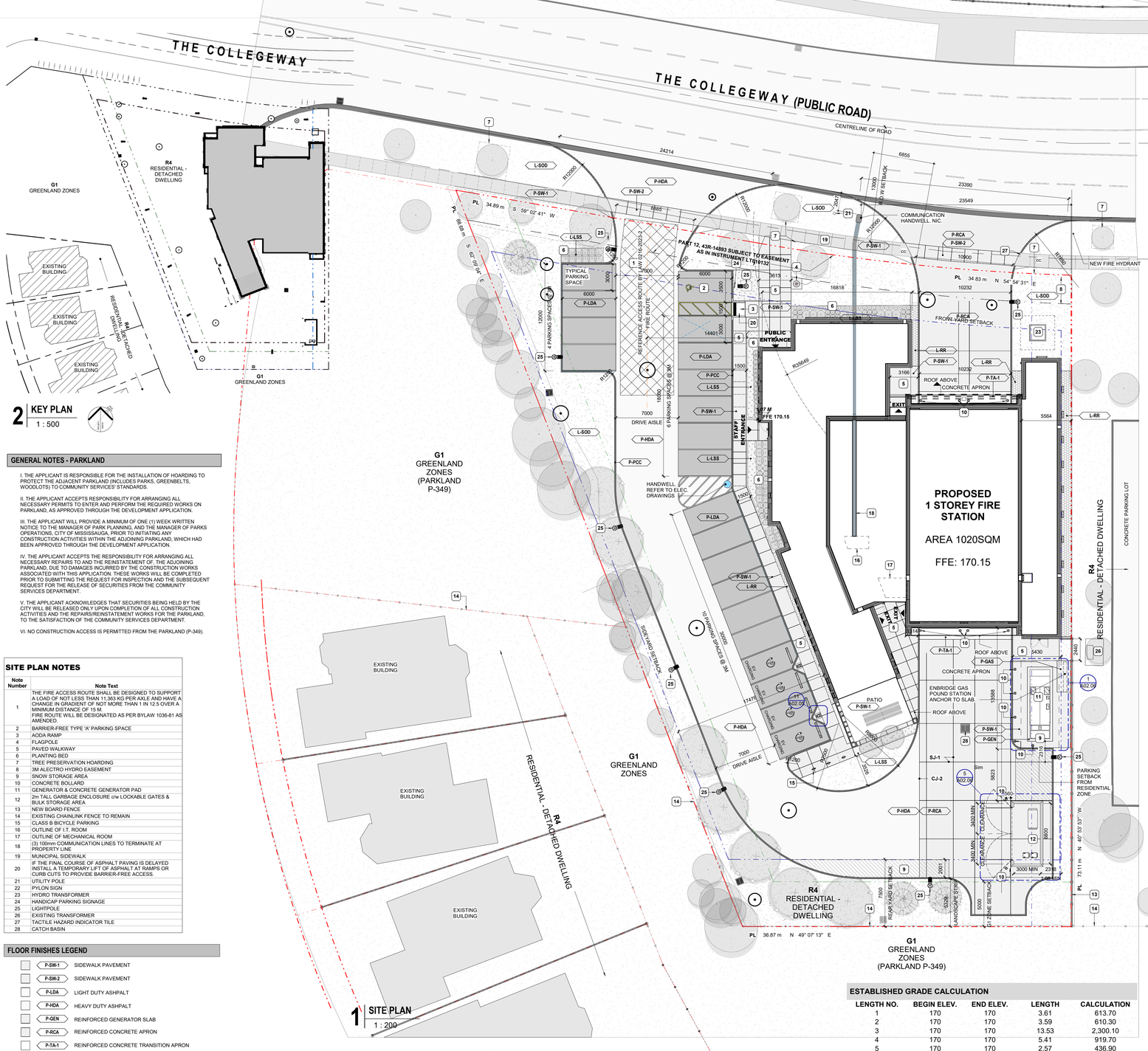
DRAWING TITLE:

**SITE DEMOLITION**

| | |
|---|---|
| ISSUE DATE: | 05/06/24 |
| DRAWN BY: SRL/AF | CHECKED BY: SRL |
| PROJECT NO.: 12301 | SCALE: As indicated |
| DRAWING NO.: | REVISION: |

**A02.02** **10**


LAST DATE 2024-05-03 4:54:28 PM




## 2 KEY PLAN
1 : 500

## 1 SITE PLAN
1 : 200

## GENERAL NOTES - PARKLAND

I. THE APPLICANT IS RESPONSIBLE FOR THE INSTALLATION OF HOARDING TO PROTECT THE ADJACENT PARKLAND (INCLUDES PARKS, GREENBELTS, WOODLOTS) TO COMMUNITY SERVICES' STANDARDS.

II. THE APPLICANT ACCEPTS RESPONSIBILITY FOR ARRANGING ALL NECESSARY PERMITS TO ENTER AND PERFORM THE REQUIRED WORKS ON PARKLAND, AS APPROVED THROUGH THE DEVELOPMENT APPLICATION.

III. THE APPLICANT WILL PROVIDE A MINIMUM OF ONE (1) WEEK WRITTEN NOTICE TO THE MANAGER OF PARK PLANNING, AND THE MANAGER OF PARKS OPERATIONS, CITY OF MISSISSAUGA, PRIOR TO INITIATING ANY CONSTRUCTION ACTIVITIES WITHIN THE ADJOINING PARKLAND, WHICH HAD BEEN APPROVED THROUGH THE DEVELOPMENT APPLICATION.

IV. THE APPLICANT ACCEPTS THE RESPONSIBILITY FOR ARRANGING ALL NECESSARY REPAIRS TO AND THE REINSTATEMENT OF, THE ADJOINING PARKLAND, DUE TO DAMAGES INCURRED BY THE CONSTRUCTION WORKS ASSOCIATED WITH THIS APPLICATION. THESE WORKS WILL BE COMPLETED PRIOR TO SUBMITTING THE REQUEST FOR INSPECTION AND THE SUBSEQUENT REQUEST FOR THE RELEASE OF SECURITIES FROM THE COMMUNITY SERVICES DEPARTMENT.

V. THE APPLICANT ACKNOWLEDGES THAT SECURITIES BEING HELD BY THE CITY WILL BE RELEASED ONLY UPON COMPLETION OF ALL CONSTRUCTION ACTIVITIES AND THE REPAIRS/REINSTATEMENT WORKS FOR THE PARKLAND, TO THE SATISFACTION OF THE COMMUNITY SERVICES DEPARTMENT.

VI. NO CONSTRUCTION ACCESS IS PERMITTED FROM THE PARKLAND (P-349).

## SITE PLAN NOTES

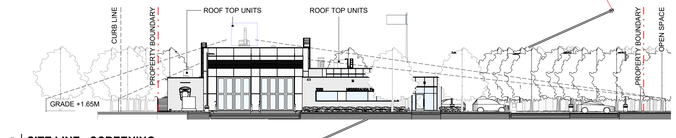
| Note Number | Note Text |
|---|---|
| 1 | THE FIRE ACCESS ROUTE SHALL BE DESIGNED TO SUPPORT A LOAD OF NOT LESS THAN 11.363 KG PER AXLE AND HAVE A CHANGE IN GRADIENT OF NOT MORE THAN 1 IN 12.5 OVER A MINIMUM DISTANCE OF 15 M. FIRE ROUTE WILL BE DESIGNATED AS PER BYLAW 1036-81 AS AMENDED. |
| 2 | BARRIER-FREE TYPE 'A' PARKING SPACE |
| 3 | ACDA RAMP |
| 4 | FLAGPOLE |
| 5 | PAVED WALKWAY |
| 6 | PLANTING BED |
| 7 | TREE PRESERVATION HOARDING |
| 8 | 3M ALECTRO HYDRO EASEMENT |
| 9 | SNOW STORAGE AREA |
| 10 | CONCRETE BOLLARD |
| 11 | GENERATOR & CONCRETE GENERATOR PAD |
| 12 | 2m TALL GARBAGE ENCLOSURE c/w LOCKABLE GATES & BULK STORAGE AREA |
| 13 | NEW BOARD FENCE |
| 14 | EXISTING CHAINLINK FENCE TO REMAIN |
| 15 | CLASS B BICYCLE PARKING |
| 16 | OUTLINE OF LT. ROOM |
| 17 | OUTLINE OF MECHANICAL ROOM |
| 18 | (3) 100mm COMMUNICATION LINES TO TERMINATE AT PROPERTY LINE |
| 19 | MUNICIPAL SIDEWALK |
| 20 | IF THE FINAL COURSE OF ASPHALT PAVING IS DELAYED INSTALL A TEMPORARY LIFT OF ASPHALT AT RAMPS OR CURB CUTS TO PROVIDE BARRIER-FREE ACCESS. |
| 21 | UTILITY POLE |
| 22 | PYLON SIGN |
| 23 | HYDRO TRANSFORMER |
| 24 | HANDICAP PARKING SIGNAGE |
| 25 | LIGHTPOLE |
| 26 | EXISTING TRANSFORMER |
| 27 | TACTILE HAZARD INDICATOR TILE |
| 28 | CATCH BASIN |

## FLOOR FINISHES LEGEND

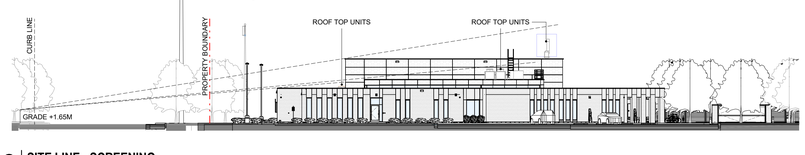
| | |
|---|---|
| P-SW-1 | SIDEWALK PAVEMENT |
| P-SW-2 | SIDEWALK PAVEMENT |
| P-LDA | LIGHT DUTY ASHPALT |
| P-HDA | HEAVY DUTY ASHPALT |
| P-GEN | REINFORCED GENERATOR SLAB |
| P-RCA | REINFORCED CONCRETE APRON |
| P-TA-1 | REINFORCED CONCRETE TRANSITION APRON |
| P-PCC | HIGH CONCRETE CURB |
| L-LSS | PLANTING BED |
| L-RR | RIVER ROCK |
| L-SOD | SOD |

## ESTABLISHED GRADE CALCULATION

| LENGTH NO. | BEGIN ELEV. | END ELEV. | LENGTH | CALCULATION |
|---|---|---|---|---|
| 1 | 170 | 170 | 3.61 | 613.70 |
| 2 | 170 | 170 | 3.59 | 610.30 |
| 3 | 170 | 170 | 13.53 | 2,300.10 |
| 4 | 170 | 170 | 5.41 | 919.70 |
| 5 | 170 | 170 | 2.57 | 436.90 |
| 6 | 170 | 170 | 5.4 | 918.00 |
| 7 | 170 | 170 | 2.24 | 380.80 |
| 8 | 170 | 170 | 1.27 | 215.90 |
| 9 | 170 | 170 | 12.88 | 2,189.60 |
| 10 | 170 | 170 | 3.99 | 678.30 |
| 11 | 170 | 170.33 | 4.51 | 767.44 |
| 12 | 170.33 | 170.37 | 7.44 | 1,267.40 |
| 13 | 170.37 | 170.42 | 7.58 | 1,291.59 |
| 14 | 170.42 | 170.37 | 7.58 | 1,291.59 |
| 15 | 170.37 | 170.27 | 7.58 | 1,291.03 |
| 16 | 170.27 | 170 | 4.93 | 838.77 |
| 17 | 170 | 170 | 12.5 | 2,125.00 |
| 18 | 170 | 170 | 3.91 | 664.70 |
| 19 | 170 | 170 | 2.21 | 375.70 |
| 20 | 170 | 170 | 1.51 | 256.70 |
| 21 | 170 | 170 | 8.57 | 1,456.90 |
| 22 | 170 | 170 | 8.01 | 1,361.70 |
| 23 | 170 | 169.88 | 8.51 | 1,446.19 |
| 24 | 169.88 | 170 | 9.97 | 1,694.30 |
| 25 | 170 | 170 | 1.17 | 198.90 |
| 26 | 170 | 170 | 2.33 | 396.10 |
| 27 | 170 | 170 | 1.07 | 181.90 |
| 28 | 170 | 170 | 11.94 | 2,029.80 |
| 29 | 170 | 170 | 1.04 | 176.80 |
| 30 | 170 | 170 | 7.77 | 1,320.90 |
| TOTAL | 152.8 | | | 25,987.32 |
| EG | | | | 170.07 |




## 4 SITE LINE - SCREENING
1 : 300




## 3 SITE LINE - SCREENING
1 : 300

## GENERAL NOTES - PLANNING & BUILDING STANDARDS

I. I HEREBY CERTIFY THAT THIS DRAWING CONFORMS IN ALL RESPECTS TO THE SITE DEVELOPMENT PLANS. INCLUDE ARCHITECT OR ENGINEER'S SIGNATURE (IF APPLICABLE) AND PROFESSIONAL SEAL

II. THE CITY OF MISSISSAUGA REQUIRES THAT ALL WORKING DRAWINGS SUBMITTED TO THE BUILDING DIVISION AS PART OF AN APPLICATION FOR THE ISSUANCE OF A BUILDING PERMIT SHALL BE CERTIFIED BY THE ARCHITECT OR ENGINEER AS BEING IN CONFORMITY WITH THE SITE DEVELOPMENT PLAN AS APPROVED BY THE CITY OF MISSISSAUGA.

III. ALL EXTERIOR LIGHTING WILL BE DIRECTED ONTO THE SITE AND WILL NOT INFRINGE UPON THE ADJACENT PROPERTIES.

IV. ALL ROOFTOP MECHANICAL UNITS SHALL BE SCREENED FROM VIEW BY THE APPLICANT.

V. PARKING SPACES RESERVED FOR PEOPLE WITH DISABILITIES MUST BE IDENTIFIED BY A SIGN, INSTALLED AT THE APPLICANT'S EXPENSE, IN ACCORDANCE WITH THE BY-LAW REQUIREMENTS AND BUILDING CODE REQUIREMENTS.

VI. THE APPLICANT WILL BE RESPONSIBLE FOR ENSURING THAT ALL PLANS CONFORM TO TRANSPORT CANADA'S RESTRICTIONS.

VII. GRADES WILL BE MET WITH A 33% MAXIMUM SLOPE AT THE PROPERTY LINES AND WITHIN THE SITE.

VIII. ALL DAMAGED AREAS ARE TO BE REINSTATED WITH TOPSOIL AND SOD PRIOR TO THE RELEASE OF SECURITIES.

IX. SIGNAGE SHOWN ON THE SITE DEVELOPMENT PLANS IS FOR INFORMATION PURPOSES ONLY. ALL SIGNS WILL BE SUBJECT TO THE PROVISIONS OF SIGN BY-LAW 0054-2002, AS AMENDED, AND A SEPARATE SIGN APPLICATION WILL BE REQUIRED THROUGH THE BUILDING DIVISION.

X. ANY FENCING ADJACENT TO MUNICIPAL LANDS IS TO BE LOCATED 15 CM (6.0 IN.) INSIDE THE PROPERTY LINE.

XI. ONLY SHIELDED LIGHTING FIXTURES ARE PERMITTED FOR ALL DEVELOPMENT, EXCEPT FOR DETACHED AND SEMI-DETACHED DWELLINGS WITHIN 60 M OF A RESIDENTIALLY ZONED PROPERTY AND MUST CONFORM TO THE ENGINEER CERTIFIED LIGHTING PLAN.
XII. THE ENGINEER CERTIFIED LIGHTING PLAN MUST BE SIGNED BY THE CONSULTING ENGINEER.
XIII. THE OWNER COVENANTS AND AGREES TO CONSTRUCT AND INSTALL SHIELDED LIGHTING FIXTURES ON THE SUBJECT LANDS, IN CONFORMITY WITH THE SITE PLAN AND ENGINEER CERTIFIED LIGHTING PLAN TO THE SATISFACTION OF THE CITY OF MISSISSAUGA.

XIV. WHERE PLANTING IS TO BE LOCATED IN LANDSCAPED AREAS ON TOP OF AN UNDERGROUND PARKING STRUCTURE, IT IS THE RESPONSIBILITY OF THE APPLICANT TO ARRANGE THE COORDINATION OF THE DESIGN OF THE UNDERGROUND PARKING STRUCTURE WITH THE LANDSCAPE ARCHITECT AND THE CONSULTING ENGINEERING. UNDERGROUND PARKING STRUCTURES WITH LANDSCAPING AREA TO BE CAPABLE OF SUPPORTING THE FOLLOWING LOADS:- 15 CM OF DRAINAGE GRAVEL PLUS 40 CM TOPSOIL FOR SOD- 15 CM OF DRAINAGE GRAVEL PLUS 60 CM TOPSOIL FOR SHRUBS- 15 CM OF DRAINAGE GRAVEL PLUS 90 CM FOR TREES OR- PREFABRICATED SHEET DRAIN SYSTEM* WITH A COMPRESSIVE STRENGTH OF 1003 KPA PLUS 40 CM TOPSOIL FOR SOD- PREFABRICATED SHEET DRAIN SYSTEM* WITH A COMPRESSIVE STRENGTH OF 1003 KPA PLUS 60 CM TOPSOIL FOR SHRUBS- PREFABRICATED SHEET DRAIN SYSTEM* WITH A COMPRESSIVE STRENGTH OF 1003 KPA PLUS 90 CM TOPSOIL FOR TREES *TERRADRAIN 900 OR APPROVED EQUAL.

XV. THE STRUCTURAL DESIGN OF ANY RETAINING WALL OVER 0.6 M IN HEIGHT OR ANY RETAINING WALL LOCATED ON A PROPERTY LINE IS TO BE SHOWN ON THE SITE GRADING PLAN FOR THIS PROJECT AND IS TO BE APPROVED BY THE CONSULTING ENGINEER FOR THE PROJECT.

XVI. CONTINUOUS 15 CM HIGH BARRIER TYPE POURED CONCRETE CURBING WILL BE PROVIDED BETWEEN ALL ASPHALT AND LANDSCAPED AREAS THROUGHOUT THE SITE.

XVII. ALL UTILITY COMPANIES WILL BE NOTIFIED FOR LOCATES PRIOR TO THE INSTALLATION OF THE HOARDING THAT LIES WITHIN THE SITE AND WITHIN THE LIMITS OF THE CITY BOULEVARD AREA.

## GENERAL NOTES - SITE PLAN

1. ***GENERAL REQUIREMENTS***
   1. CONTRACTOR SHALL CO-ORDINATE ALL WORK NOTED HERE WITH THE SPECIFICATION DOCUMENTS - FOR GENERAL REQUIREMENTS, EXISTING CONDITIONS, EXCAVATION & BACKFILLING, LANDSCAPING, ETC AS REQUIRED FOR COMPLETE SITE RELATED WORK.
   2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING ADEQUATE RECORDS OF CONSTRUCTION TO FACILITATE AS-BUILT DRAWINGS.
2. ***PROJECT BOUNDARIES***
   1. THE CONTRACT CONSISTS OF ALL WORK WITHIN THE 'PROPERTY LINE' AND/OR 'SITE EXTENTS' LINE AS INDICATED PLUS ANY WORK SPECIFICALLY NOTED OUTSIDE OF THAT LINE OR AS REQUIRED TO DELIVER A OPERATIONAL, FUNCTIONING PROJECT.
   2. THE TERM 'SITE EXTENTS' REFERS TO THE AREA THAT THE CONTRACTOR IS REQUIRED TO ENCLOSE WITH CONSTRUCTION FENCING FOR THE DURATION OF THE WORK.
   3. ALL WORK DONE OUTSIDE OF THESE LIMITS MUST BE EXECUTED IN STRICT ACCORDANCE WITH THE STANDARDS OF THE MUNICIPALITY AND ALL OTHER AUTHORITIES HAVING JURISDICTION. MAKE GOOD AT NO ADDITIONAL COST TO THE OWNER OR MUNICIPALITY ANY DAMAGE CAUSED BY THIS CONSTRUCTION TO MATERIALS OR FINISHES BEYOND THE "PROPERTY LINE" INDICATED.
3. ***EXECUTION***
   1. CONTRACTOR IS TO RESTRICT ALL WORK, EQUIPMENT AND MATERIALS STORAGE TO AREA(S) WITHIN THE "PROPERTY LINE" EXCEPT WHERE NOTED OTHERWISE. PRIMARY SITE ACCESS POINT & CONSTRUCTION PARKING IS TO BE CONFIRMED WITH OWNER. NO PARKING IS PERMITTED IN THE MUNICIPAL RIGHT-OF-WAY
   2. LOCATE EXCAVATED MATERIALS & TOPSOIL PILES SO AS NOT TO IMPEDE PROGRESS OF THE WORK OR AS DIRECTED. 'DOUBLE HANDLING' OF MATERIALS AS A RESULT OF CONTRACTOR PLANNING OR EXECUTION OF THE WORK WILL NOT BE CONSIDERED AS A BASIS FOR CLAIM. AT COMPLETION OF THE PROJECT, ANY EXCESS MATERIAL IS TO BE REMOVED AND AREA MADE GOOD TO CONSULTANTS SATISFACTION.
   3. FOR TRENCHING & BACKFILLING OF ALL SERVICE LINES AND DIVISION OF RESPONSIBILITY REFER TO APPROPRIATE SPECIFICATION SECTIONS AND DRAWINGS. TRENCHING & BACKFILLING NOT IDENTIFIED BY A PARTICULAR SUB-TRADE WILL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO PROVIDE TRENCHING AND BACKFILLING. GRADE FINISHED WORK TO MATCH SURROUNDING SURFACES.
4. ***LOCATION OF SERVICES***
   1. NOTE THAT THE EXACT LOCATIONS OF ALL NEW MECHANICAL & ELECTRICAL ITEMS ARE APPROXIMATE UNLESS DIMENSIONS ARE GIVEN. ADJUST LOCATIONS AS REQUIRED AND AS APPROVED BY CONSULTANT TO SUIT SITE CONDITIONS.
   2. NOTE THAT ALL MECHANICAL AND ELECTRICAL UNDERGROUND AND ABOVEGROUND SERVICE LINES INDICATED ON DRAWINGS ARE APPROXIMATE ONLY AND ARE INDICATED AS ACCURATELY AS POSSIBLE FROM INFORMATION SUPPLIED. CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING EXACT TYPES, LOCATIONS, DEPTHS AND MARKING ALL UNDERGROUND AND ABOVEGROUND SERVICES WITHIN ALL AREAS OF CONSTRUCTION. THIS INCLUDES, BUT IS NOT LIMITED TO GAS LINES, WATER LINES, ELECTRICAL LINES, TELEPHONE, CABLE TV ETC. VERIFY EXACT LOCATIONS WITH THE APPROPRIATE AUTHORITIES BEFORE EXCAVATING.
   3. PRIOR TO COMMENCING WORK TO PLACE VERTICAL ELEMENTS SUCH AS FLAGPOLES AND LIGHT STANDARDS ENSURE ADEQUATE CLEARANCE FROM EXISTING ABOVE GROUND ELEMENTS SUCH AS OVERHEAD WIRES CABLES ETC. NOTIFY THE CONSULTANT OF ANY DISCREPANCIES PRIOR TO COMMENCEMENT OF WORK.
   4. ALL FINISHED PAVING AND GRADING TO BE TO NEW LEVELS SHOWN. ALL DRAINAGE TO BE POSITIVE, LEAVING NO POCKETS IN FINISHED GRADE. FINISHED GRADING TO SLOPE MINIMUM 1:12 AND ASPHALT TO SLOPE MAX 1:10 AWAY FROM BUILDING UNLESS SHOWN OTHERWISE. NEW GRADES TO MEET EXISTING GRADES FALLING AWAY FROM BUILDING AND FEATHERED OUT EVENLY.

## PROJECT SITE STATISTICS DATA

### ZONING INFORMATION

| ITEM | DESCRIPTION | DESCRIPTION |
|---|---|---|
| 1 | ZONING BY-LAW | R4 |
| 2 | ZONING CATEGORY | R4 (RESIDENTIAL) |
| 3 | PERMITTED USES | DETACHED DWELLING (ESSENTIAL EMERGENCY SERVICE PERMITTED) |
| 4 | LOT AND PLAN NUMBER | 43M-745 BLOCK 124 PART 1 |
| 5 | BUILDING TENURE | |
| 6 | CoA DECISIONS | APPROVED - A407/23 |

| LOT REQUIREMENTS | | REQUIRED | | PROPOSED | |
|---|---|---|---|---|---|
| 7 | LOT AREA | 3785.5... | m²... | 3785.5... | m²... |
| 8 | LOT FRONTAGE MINIMUM | 12 | m | 69.77 | m |
| 9 | LOT COVERAGE MAXIMUM % | 40 | % | 27 | % |
| 10 | FRONT YARD MINIMUM | 6 | m | 6 | m |
| 11 | GREEN ROOF AREA | 40 | m² | N/A | m² |
| 12 | YARD SOFT LANDSCAPE MINIMUM | 40 | % | 64 | % |
| 13 | HARDSCAPED AREA (HIGH ALBEDO) | N/A | m² | N/A | m² |
| 14 | PAVED AREA | N/A | m² | N/A | m² |
| PRINCIPAL BUILDING REQUIREMENTS | | REQUIRED | | PROPOSED | |
| 15 | BUILDING HEIGHT MAXIMUM | 10.7 | m | 7.73 | m |
| 16 | FLOOR SPACE INDEX | N/A | FSI | N/A | FSI |
| 17 | BUILDING FOOTPRINT | 1514.2 | m² | 1020 | m² |
| 18 | GROSS BUILDING AREA | N/A | m² | 1020 | m² |
| 19 | ESTABLISHED GRADE | N/A | m | 170.0 | m |
| PARKING / LOADING / BICYCLE SPACES | | REQUIRED | | PROPOSED | |
| 20 | PARKING SPACES CALCUALTION: *1 space per staff on duty with a minimum of 2.0 spaces | 11 STAFF PER SHIFT | | 21 | |
| 21 | BARRIER-FREE PARKING SPACES | | | | |
| | Type A | 1 | spaces | 1 | spaces |
| | Type B | N/A | spaces | N/A | spaces |
| 22 | BICYCLE PARKING | | | | |
| | Class A | N/A | spaces | N/A | spaces |
| | Class B | 2 | spaces | 3 | spaces |
| 23 | LOADING SPACES | N/A | | N/A | |
| BUILDING TO PROPERTY SETBACKS | | REQUIRED | | PROPOSED | |
| 24 | FRONT YARD SETBACK | 6 | m | 6 | m |
| 25 | SIDE YARD SETBACK | 1.2 | m | 18.6 | m |
| 26 | REAR YARD SETBACK | 7.5 | m | 20 | m |
| 27 | SIDE YARD SETBACK | 1.2 | m | 1.2 | m |
| LANDSCAPE BUFFER PROPERTY SETBACKS | | REQUIRED | | PROPOSED | |
| 28 | LANDSCAPE BUFFER FRONT YARD | N/A | m | 6 | m |
| 29 | LANDSCAPE BUFFER SIDE YARD | N/A | m | 3.5 | m |
| 30 | LANDSCAPE BUFFER REAR YARD | N/A | m | 5.3 | m |
| 31 | LANDSCAPE BUFFER SIDE YARD | N/A | m | 1.2 | m |
| ADDITIONAL SITE REQUIREMENTS | | REQUIRED | | PROPOSED | |
| 32 | G1 ZONE SETBACK | | | | |
| | SIDE YARD SETBACK | 5 | m | N/A | m |
| | REAR YARD SETBACK | 5 | m | N/A | m |

## SOFTSCAPE AREA CALCULATION

| | AREA | % |
|---|---|---|
| **FRONT YARD AREA** | **819** | **100.00%** |
| MIN. SOFT LANDSCAPE | 328 | 40.00% |
| ALLOWABLE HARDSCAPE | 491 | 60.00% |
| **SOFT LANDSCAPE** | | |
| SOD AREAS | 282 | **34.43%** |
| LANDSCAPE BEDS | 100 | **12.21%** |
| **TOTAL SOFT LANDSCAPE** | **382** | **46.64%** |
| **HARD LANDSCAPE** | | |
| PORCH AREA | 0 | 0.00% |
| WALKWAYS | 66 | 8.06% |
| DRIVEWAY | 353 | 43.10% |
| OTHER HARD SURFACES | 18 | 2.20% |
| **TOTAL HARD LANDSCAPE** | **437** | **53.36%** |

## GENERAL NOTES - CITY OF MISSISSAUGA TRAFFIC

I. ALL DAMAGED OR DISTURBED AREAS WITHIN THE MUNICIPAL RIGHT-OF-WAY ARE TO BE REINSTATED AT THE OWNER'S EXPENSE.;

II. ALL LANDSCAPING AND GRADING WITHIN CLOSE PROXIMITY TO THE PROPOSED ACCESS POINTS IS TO BE DESIGNED TO ENSURE THAT ADEQUATE SIGHT DISTANCES ARE AVAILABLE FOR ALL APPROACHING AND EXITING MOTORISTS AND PEDESTRIANS.;

III. THE PORTION OF THE DRIVEWAY WITHIN THE MUNICIPAL BOULEVARD IS TO BE PAVED BY THE OWNER.;

IV. DRIVEWAY ACCESSES SHALL MAINTAIN A 1.5M SETBACK FROM ABOVEGROUND FEATURES SUCH AS UTILITIES AND TREES.;

V. ANY ABOVE GROUND UTILITIES LOCATED WITHIN 1.5M OF A PROPOSED ACCESS ARE TO BE RELOCATED AT THE OWNER'S EXPENSE.;

VI. THE COST FOR ANY/ALL ROAD IMPROVEMENTS REQUIRED IN SUPPORT OF THIS DEVELOPMENT APPLICATION WILL BE BORNE BY THE OWNER.;

VII. THE OWNER SHALL MAKE SATISFACTORY ARRANGEMENTS WITH THE TRANSPORTATION AND WORKS DEPARTMENT FOR THE DESIGN, CONSTRUCTION AND PAYMENT OF ALL COSTS ASSOCIATED WITH WORKS NECESSARY TO SUPPORT ACCESS TO THIS SITE.;

VIII. ANY ACCESS TO INTERNAL SERVICING SHALL BE PROVIDED INTERNALLY THROUGH THE SITE.;

IX. DETAILS OF THE SITE SPECIFIC ACCESS CONFIGURATIONS WILL BE FINALIZED IN CONJUNCTION WITH THE SITE PLAN REVIEW/APPROVAL PROCESS.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DRAWINGS ARE NOT TO BE SCALED.

CONTRACTOR MUST VERIFY ALL DIMENSIONS ON THE JOB AND REPORT ANY DISCREPANCY TO ARCHITECTS BEFORE PROCEEDING WITH WORK.

ALL DRAWINGS AND SPECIFICATIONS ARE THE PROPERTY OF THE ARCHITECT AND MUST BE RETURNED AT THE COMPLETION OF THE WORK.

SEALS

ONTARIO ASSOCIATION OF ARCHITECTS
DAVID PREMI
LICENCE 4795


MISSISSAUGA

**CITY OF MISSISSAUGA FIRE STATION 123**

3050 THE COLLEGEWAY MISSISSAUGA, ONTARIO CANADA

| | |
|---|---|
| **SITE PLAN APPLICATION #** | SP 24-3 |
| **DEVELOPMENT TYPE** | EMERGENCY SERVICES |
| **LEGAL DESCRIPTION** | PART OF BLOCK 124 REGISTERED PLAN 43M-745 |
| **APPLICANT INFO** | DAVID PREMI, 25 MAIN ST. W, SUITE 1800, HAMILTON, ON L8P 1H1 905.522.0220 |
| **OWNER INFO** | CITY OF MISSISSAUGA, ADRIANA TANTALO, 300 CITY CENTRE DRIVE 905.615.3200 X 3395 |

| NO. | ISSUES/REVISIONS | DATE |
|---|---|---|
| 11 | TENDER | 05/06/24 |
| 10 | BP-RESUBMISSION | 05/02/24 |
| 9 | SPA RESUBMISSION | 03/12/24 |
| 8 | BP - RESUBMISSION | 02/23/24 |
| 7 | PERMIT | 01/22/24 |
| 6 | CLASS A ESTIMATE | 01/22/24 |
| 5 | 90% CD SUBMISSION | 1/22/24 |
| 4 | FORMAL SPA | 12/05/23 |
| 3 | MINOR VARIANCE APPLICATION | 09/08/23 |
| 2 | PAM 1 RE-SUBMISSION | 09/07/23 |
| 1 | PRELIMINARY ZONING REVIEW RE-SUBMISSION | 08/02/23 |
| 0 | SPA PRE-CONSULTATION | 03/28/23 |

DRAWING TITLE:

**SITE PLAN & SITE PLAN STATISTICS**

| | |
|---|---|
| ISSUE DATE: | 05/06/24 |
| DRAWN BY: SRL/AF/AR | CHECKED BY: SRL |
| PROJECT NO.: 12301 | SCALE: As indicated |
| DRAWING NO.: | REVISION: |

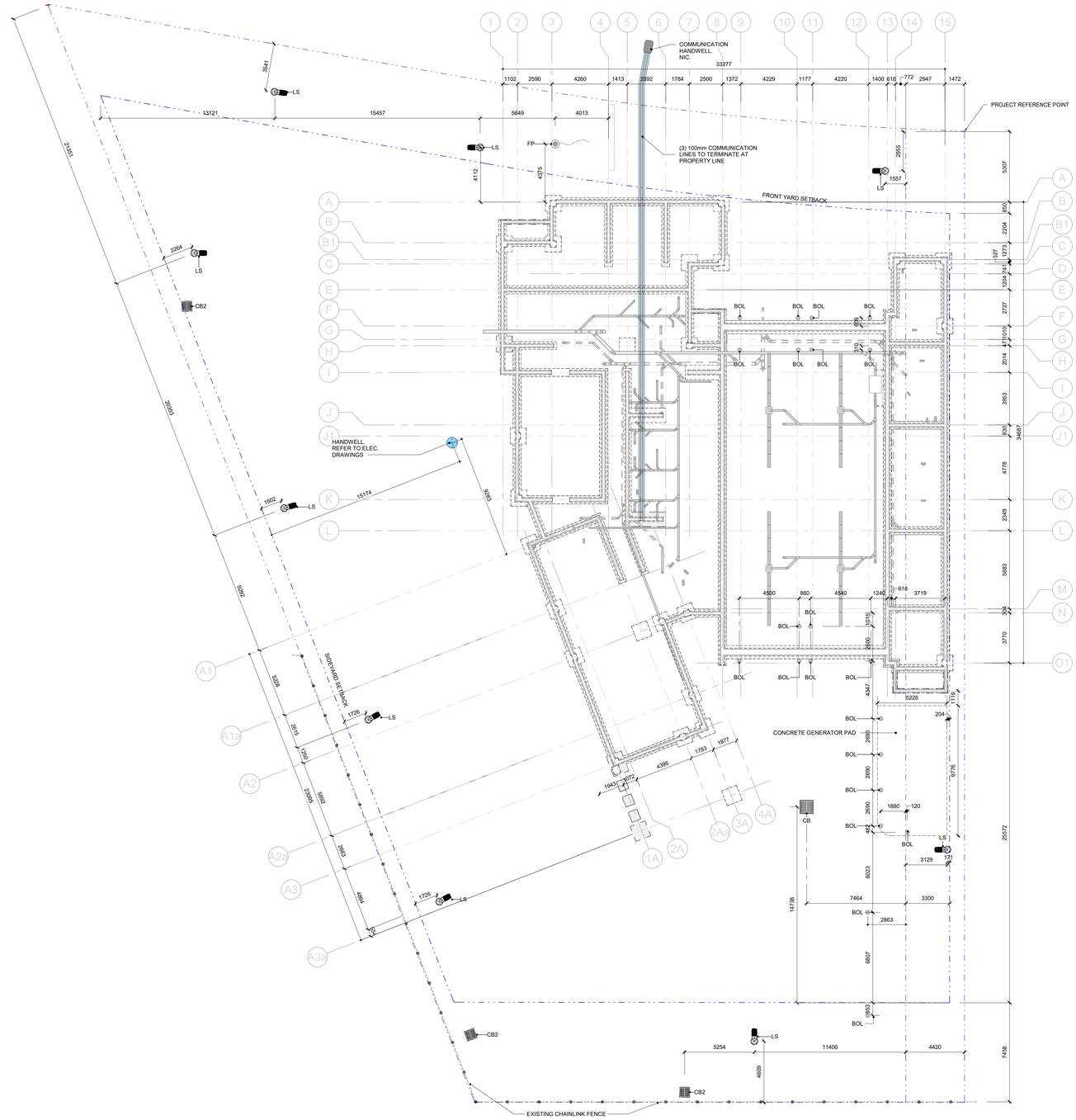
**A02.03** | **11**


PLOT DATE: 2024-05-06 4:05:59 PM

## SITE LAYOUT PLAN

**1. GENERAL REQUIREMENTS**

1. INTENT OF DRAWING IS TO PROVIDE CLARIFTY FOR LOCATIONS OF BELOW GRADE INFRASTRUCTRE, AS NOTED:
   1. BOLLAR LOCATIONS
   2. EV CHARGING STATION
   3. FLAG POLE LOCATION
   4. LIGHT POLE LOCATIONS
   5. FENCING
2. GENERAL CONTRACTOR AND SUBTRADES SHALL REVIEW ALL DRAWINGS FOR COORDIANTION AND INSTALLATION OF ON SITE ITEMS




**1 SITE LAYOUT PLAN**
1 : 150

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SEALS

ONTARIO ASSOCIATION OF ARCHITECTS — DAVID PREMI — LICENCE 4315

MISSISSAUGA

## CITY OF MISSISSAUGA FIRE STATION 123

3050 THE COLLEGEWAY MISSISSAUGA, ONTARIO CANADA

| | |
|---|---|
| **SITE PLAN APPLICATION #** | SP 24-3 |
| **DEVELOPMENT TYPE** | EMERGENCY SERVICES |
| **LEGAL DESCRIPTION** | PART OF BLOCK 124 REGISTERED PLAN 43M-745 |
| **APPLICANT INFO** | DAVID PREMI, 25 MAIN ST. W, SUITE 1800, HAMILTON, ON L8P 1H1<br>905.522.0220 |
| **OWNER INFO** | CITY OF MISSISSAUGA, ADRIANA TANTALO, 300 CITY CENTRE DRIVE<br>905.615.3200 X 3395 |

| NO. | ISSUES/REVISIONS | DATE |
|---|---|---|
| 4 | TENDER | 05/06/24 |
| 3 | BP - RESUBMISSION | 02/23/24 |
| 2 | MINOR VARIANCE APPLICATION | 09/08/23 |
| 1 | PAM 1 RE-SUBMISSION | 09/07/23 |
| 0 | PRELIMINARY ZONING REVIEW RE-SUBMISSION | 08/02/23 |

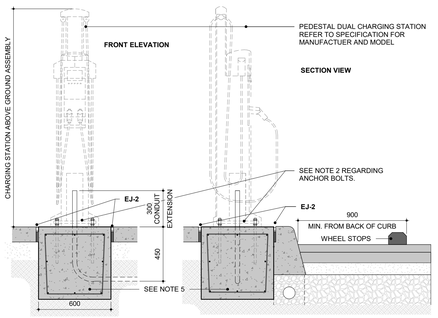
DRAWING TITLE:

**SITE LAYOUT PLAN**

| | |
|---|---|
| ISSUE DATE: | 05/06/24 |
| DRAWN BY: AA | CHECKED BY: SL |
| PROJECT NO.: 12301 | SCALE: As indicated |
| DRAWING NO.: | REVISION: |

**A02.04** **4**

PLOT DATE: 2024-06-05 4:05:26 PM

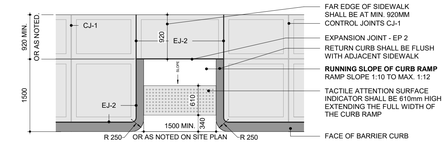



***EXECUTION NOTES:***
1. COORDINATE EV CHARGING REQUIREMENTS WITH ELECTRICAL DRAWINGS.
2. CONTRACTOR SHALL COORDINATE WITH EVC MANUFACTUER FOR NUMBER, SIZE, DIMENSIONS AND INSTALLATION REQUIREMENTS FOR ANCHOR BOLTS.
3. REFER TO SPECIFICATIONS AND INSTALLATION MANUAL FOR DETAILS
4. REVIEW SITE PLAN FOR LOCATION AND OTHER DESIGN IMPLICATIONS
5. 600x600x600 DEEP CONCRETE FOUNDATION. 2500min. PSI/TYPE V CONCRETE W/ 3-#5 EACH WAY HORIZONTALLY AND VERTICALLY. MINIMUM HOOK OF 12" TOP AND BOTTOM EACH WAY, TYPICAL.

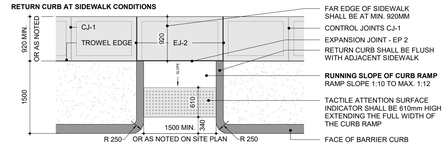
***BASIS OF DESIGN:***
1. CHARGE POINT - CT4000
2. DUAL CHARGE UNIT

***CAR WHEEL STOPS***
1. PROVIDE 1800 WIDE WHEEL STOP AT ALL CHARGING STATIONS
2. BASIS OF DESIGN: 150mm HIGH, 1800 WIDE RUBBER PARKING CURB BY:
   1. THE PARKING GUYS, 3497 KENNEDY ROAD, UNIT 4, TORONTO, ON M1V 4Y3

## 11 VCS-1 - VEHICLE CHARGING STATION C/W BUMPER
1 : 20

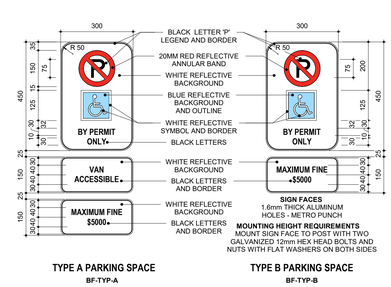



**RETURN CURB AT SIDEWALK CONDITIONS**




**RETURN CURB AT LANDSCAPE CONDITIONS**

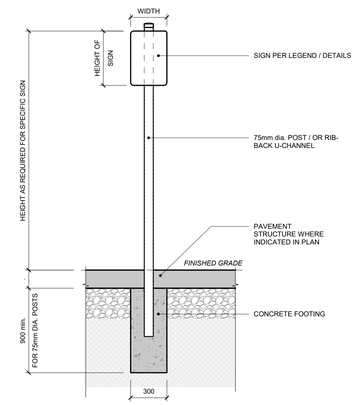
## 7 AODA RETURN CURB RAMP DETAIL
NTS




**TYPE A PARKING SPACE** BF-TYP-A

**TYPE B PARKING SPACE** BF-TYP-B

## 4 ACCESSIBLE PARKING SIGNAGE
NTS



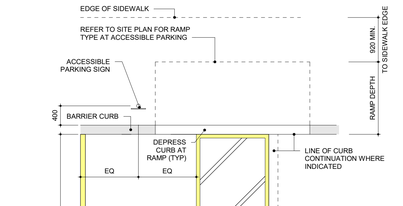

**GENERAL REQUIREMENTS**
1. ALL SIGNS SHALL BE PER LOCAL AUTHORITIES HAVING JURISDICTION. VERIFY SIZE, SHAPE & WORDING.

**ACCESSIBLE PARKING SIGNS**
1. POST MOUNTED SIGN - FIXED POST
   1. POST SHALL BE 75mm dia. GALVANIZED STEEL c/w POST CAP IN 300mm dia. CONCRETE FOOTING
2. HEIGHT REQUIREMENTS
   1. CENTER OF ACCESSIBLE PARKING SIGN SHALL BE BETWEEN 1500mm TO 2000mm MEASURED FROM FINISHED GRADE
3. LOCATION
   1. LOCATE ONE POSTED MOUNTED SIGN AT EACH PARKING SPACE PROVIDED

**FIRE ROUTE SIGNS**
1. POST MOUNTED SIGN - FIXED POST
   1. POST SHALL BE RIB-BAK U-CHANNEL POST
   2. INSTALL 920mm BELOW FINISHED GRADE
2. HEIGHT REQUIREMENTS
   1. BOTTOM OF FIRE ROUTE SIGN SHALL BE INSTALLED BETWEEN 1900mm TO 2500mm AS MEASURED FROM EDGE OF TRAVELED PORTION OF THE DESIGNATED ROUTE, TO THE BOTTOM EDGE OF THE SIGN
3. LOCATION
   1. SIGN SHALL BE INSTALLED AT A DISTANCE BETWEEN 0.3M TO 3M FROM EDGE OF DESIGNATED ROUTE.
   2. FIRE ROUTE SIGNS SHALL BE INSTALLED AT 30M INTERVALS OR AS SHOWN ON THE SITE PLAN ALONG THE DESIGNATED FIRE ROUTE.

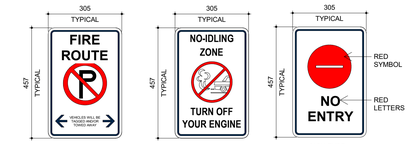
**STOP SIGNS**
1. POST MOUNTED SIGN - FIXED POST
   1. POST SHALL BE 75mm dia. GALVANIZED STEEL c/w POST CAP IN 300mm dia. CONCRETE FOOTING
2. HEIGHT REQUIREMENTS
   1. SHALL BE ERECTED SO THAT THE BOTTOM EDGE IS NOT LESS THAN 1.5m AND NOT MORE THAN 2.5m ABOVE THE LEVEL OF THE ADJACENT ROADWAY.
3. LOCATION: AS NOTED IN PLAN.

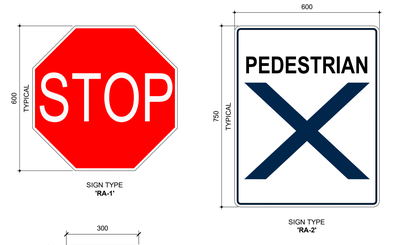
## 5 SIGNS FIXED POST
NTS




**PARKING STALL TYPES**
TYPE A: VAN ACCESSIBLE PARKING SPACE
TYPE B: STANDARD ACCESSIBLE PARKING SPACE

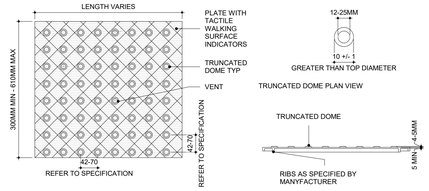
## 1 AODA PARKING SPACE
NTS



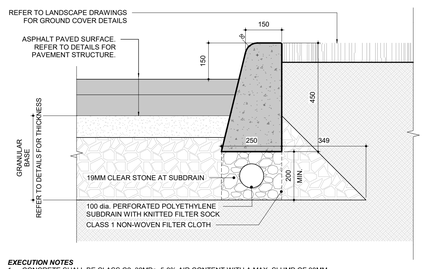

***GENERAL REQUIREMENTS***
1. FIRE ROUTE SIGNAGE SHALL INDICATE APPROPORATE LOCAL BY-LAW NUMBER
2. ALL LETTERING AND COLORS SHALL MEET M.T.O STANDARDS.
3. ALL SIGNAGE TO ONTARIO TRAFFIC MANUAL / MUNICIPAL STANDARDS AND DETAILS.
4. GENERAL CONTRACTOR SHALL VERIFY AND CONFIRM WITH AHJ PRIOR TO INSTALLATION
5. REFER TO SITE PLAN FOR QTY AND LOCATIONS OF SIGNS REQUIRED.

## 2 MUNICIPAL SIGNAGE
NTS



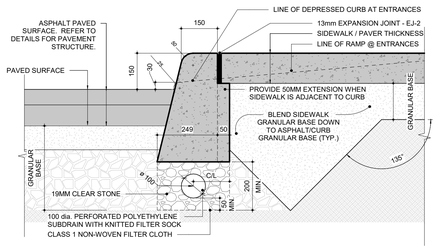

***BASIS OF DESIGN***
1. DEPTH OF HAZARDOUS TACTILE TILE TO ADHERE TO APPLICATION REQUIRMENTS. IT SHALL BE NOT LESS THAN 300MM AND NOT MORE THAN 610MM.
2. MUST CONTRAST WITH ADJOINING SURFACES AND BE SLIP-RESISTANT, REFER TO SPECIFICATIONS FOR MATERIAL.
3. VENTS SHALL BE SPECIFIED BY MANUFACTURER.
4. SPACING OF TRUNCATED DOMES VARIES DEPENDING ON TOP DIAMETER OF FLAT-TOPPED DOMES OR CONES. REFER TO BUILDING CODE AND SPECIFIED PRODUCT.

## 3 TACTILE HAZARD INDICATOR TILE
1 : 10



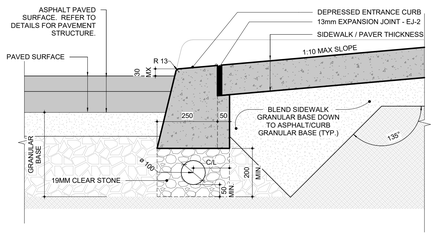

***EXECUTION NOTES***
1. CONCRETE SHALL BE CLASS C2, 32MPa, 5-8% AIR CONTENT WITH A MAX. SLUMP OF 80MM
2. PROVIDE WEAKEND PLANE JOINT AT EVERY 3m MAX.
3. PROVIDE EXPANSION JOINT AT 12m MAX. O/C AND AT ALL STRUCTURES, DRIVEWAYS AND RETURNS.

## 8 BARRIER CURB - ADJACENT TO LANDSCAPED AREAS
1 : 10



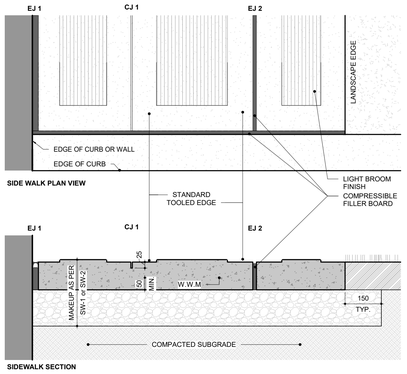

***EXECUTION NOTES***
1. CONCRETE SHALL BE CLASS C2, 32MPa, 5-8% AIR CONTENT WITH A MAX. SLUMP OF 80MM
2. PROVIDE WEAKEND PLANE JOINT AT EVERY 3m MAX.
3. PROVIDE EXPANSION JOINT AT 12m MAX. O/C AND AT ALL STRUCTURES, DRIVEWAYS AND RETURNS.

## 9 BARRIER CURB - ADJACENT TO SIDEWALK / HARD SURFACES
1 : 10




***EXECUTION NOTES***
1. CONCRETE SHALL BE CLASS C2, 32MPa, 5-8% AIR CONTENT WITH A MAX. SLUMP OF 80MM
2. PROVIDE WEAKEND PLANE JOINT AT EVERY 3m MAX.
3. PROVIDE EXPANSION JOINT AT 12m MAX. O/C AND AT ALL STRUCTURES, DRIVEWAYS AND RETURNS.

## 10 BARRIER CURB - DEPRESSED ENTRANCE CURB
1 : 10




***EXECUTION NOTES:***
1. THE FOLLOWING IDENTIFIES THE JOINTS NOTED ABOVE:
   1. EJ1 - EXPANSION JOINT COMPOSED OF COMPRESSIBLE FILLER BOARD MECHANICALLY FASTENED TO WALL FACE / RIGID INSULATION, c/w SEALANT . THIS JOINT CONDITION APPLIES TO ALL LOCATIONS ADJACENT TO SIDEWALKS ABUTTING A BUILDING FACE.
   2. CJ 1- HAND TOOLED CONTROL JOINT 25mm DEEP
   3. EJ 2 - EXPANSION JOINT COMPOSED OF COMPRESSIBLE FILLER BOARD
2. SPACING REQUIREMENTS
   1. HAND TOOLED - PROVIDE TRANSVERSE & LONGITUDINAL CONTRACTION JOINTS @ 1500 O/C MAX
   2. FILLER BOARD - PROVIDE COMPRESSIBLE FILLBOARDS AT MAX 7,600
3. PROVIDE 150x150 W.W.M (MINIMUM 50mm COVERAGE)
4. REFER TO STRUCTURAL AND LANDSCAPE DRAWINGS FOR OTHER REQUIREMENTS.
5. COMPRESSIBLE FILLER BOARD
   1. BASIS OF DESIGN:
      1. MANUFACTUER: W.R MEADOWS
      2. PRODUCT: X-FOAM EXPANSION JOINT FILLER
      3. THICKNESS: 13mm WITHIN SIDEWALKS & 25mm AT BUILDING FACE
      4. WIDTHS: AS REQUIRED FOR SIDEWALK OVERALL STRUCTURE
      5. LENGTHS: AS REQUIRED
6. REFER ALSO TO GEOTECHNICAL REPORT(S) TO CONFIRM LAYER THICKNESSES. REPORT ANY DISCREPANCIES TO THE CONSULTANT PRIOR TO PROCEEDING.
7. CONCRETE FOR SIDEWALKS SHALL BE CLASS C2, 32MPa, 5-8% AIR CONTENT WITH A MAX. SLUMP OF 80MM

## 6 CONCRETE SIDEWALK PAVEMENT
1 : 10

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ALL DRAWINGS AND SPECIFICATIONS ARE THE PROPERTY OF THE ARCHITECT AND MUST BE RETURNED AT THE COMPLETION OF THE WORK.

SEALS

MISSISSAUGA

**CITY OF MISSISSAUGA FIRE STATION 123**

3050 THE COLLEGEWAY MISSISSAUGA, ONTARIO CANADA

| | |
|---|---|
| **SITE PLAN APPLICATION #** | SP 24-3 |
| **DEVELOPMENT TYPE** | EMERGENCY SERVICES |
| **LEGAL DESCRIPTION** | PART OF BLOCK 124 REGISTERED PLAN 43M-745 |
| **APPLICANT INFO** | DAVID PREMI, 25 MAIN ST. W, SUITE 1800, HAMILTON, ON L8P 1H1 905.522.0220 |
| **OWNER INFO** | CITY OF MISSISSAUGA, ADRIANA TANTALO, 300 CITY CENTRE DRIVE 905.615.3200 X 3395 |

| NO. | ISSUES/REVISIONS | DATE |
|---|---|---|
| 10 | TENDER | 05/06/24 |
| 9 | SPA RESUBMISSION | 03/12/24 |
| 8 | BP - RESUBMISSION | 02/23/24 |
| 7 | PERMIT | 01/22/24 |
| 6 | CLASS A ESTIMATE | 01/22/24 |
| 5 | 90% CD SUBMISSION | 1/22/24 |
| 4 | FORMAL SPA | 12/05/23 |
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| 0 | SPA PRE-CONSULTATION | 03/28/23 |

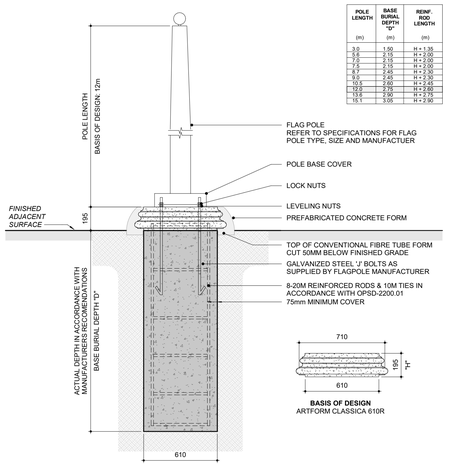
DRAWING TITLE:

**SITE DETAILS**

| | |
|---|---|
| ISSUE DATE: | 05/06/24 |
| DRAWN BY: SRL/AF | CHECKED BY: SRL |
| PROJECT NO.: 12301 | SCALE: As indicated |
| DRAWING NO.: | REVISION: |

**A02.05** **10**

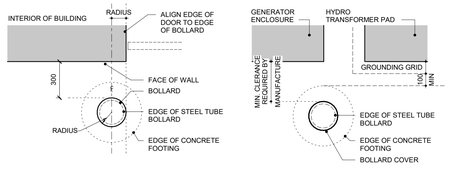
[PLOT DATE - 2024-05-03 4:49:31 ] AM




| POLE LENGTH (m) | BASE BURIAL DEPTH "D" (m) | REINF. ROD LENGTH (m) |
|---|---|---|
| 3.0 | 1.50 | H + 1.35 |
| 5.6 | 2.15 | H + 2.00 |
| 7.0 | 2.15 | H + 2.00 |
| 7.5 | 2.15 | H + 2.00 |
| 8.7 | 2.45 | H + 2.30 |
| 9.0 | 2.45 | H + 2.30 |
| 10.5 | 2.60 | H + 2.45 |
| 12.0 | 2.75 | H + 2.60 |
| 13.6 | 2.90 | H + 2.75 |
| 15.1 | 3.05 | H + 2.90 |

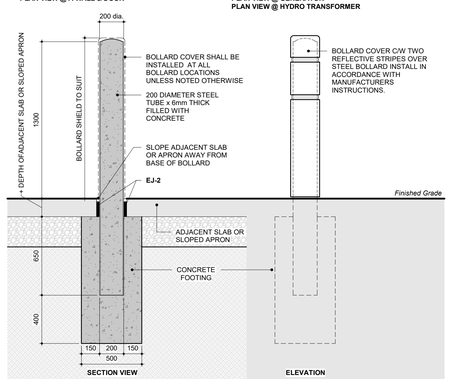
***EXECUTION NOTES:***
1. TOP OF FOUNDATION SHALL BE TROWELLED SMOOTH AND LEVEL.
2. CONCRETE SHALL BE 32 MPa CONCRETE 5-8% AIR ENTRAINED CLASS-C2 EXPOSURE.
3. PROVIDE A 19mm 3M STEEL COPPER COATED GROUND ROD ADJACENT TO POLES AND CONNECT TO METAL POLE WITH BARE COPPER CONDUCTOR.
4. CAST-IN-PLACE CONCRETE MECHANICALLY VIBRATED AND HAND TAPPED TO ENSURE BEST FINISHED RESULT.
   - NOTE: POOR FINISHED RESULTS WILL BE REJECTED AND REPLACED AT NO ADDITIONAL COST TO THE CONTRACT
5. FOUNDATION DEPTH SHOWN IS SUBJECT TO SOIL CONDITIONS, REFER TO GEOTECHNICAL REPORT.
6. FORM RELEASE AGENT SHALL BE FACTORY APPLIED TO INSIDE SURFACE OF PRE-FABRICATED CONCRETE FORM.
7. REMOVE PREFABRICATED CONCRETE FORM WITHIN 24HRS OF CASTING CONCRETE BASE.
8. WIRE BRUSH ANY TRACES OF PREFABRICATED CONCRETE FORM MATERIAL REMAINING ON FINISHED CONCRETE BASE.
9. USE RUBBING STONE TO MAKE SMOOTH ANY ROUGH CONCRETE EDGES AROUND TOP OF BASE AND ALONG VERTICAL SEAMS.
10. IF/WHEN THERE IS RISK OF DAMAGE TO EXPOSED BASE BY CONSTRUCTION EQUIPMENT, PROTECT BASE BY TIE-WIRING OR DUCT-TAPING THE TWO USED PREFABRICATED CONCRETE FORM HALVES BACK IN PLACE AROUND BASE UNTIL SAFE TO REMOVE PROTECTION.
11. FLAG POLE HEIGHT:
    1. BASIS OF DESIGN OF FLAG POLE SHALL BE 12m HIGH AS SPECIFIED.
    2. FLAG SIZE FOR 12m POLE LENGTH SHALL BE 1.8m HIGH x 3.6m WIDE.
12. FLAG POLE LOCATION:
    1. WHEN 2 OR MORE FLAG POLES ARE SHOW, CENTER TO CENTER SHALL BE NO LESS THAN 4m.
13. CONCRETE FOUNDATION DEPTH AND REINFORMCENT SHALL BE BASED ON POLE LENGTH AS RECOMMENED BY MANUFACTUER.

## 6 FLAG POLE BASE
1 : 20




**PLAN VIEW @ A WALL & DOOR**

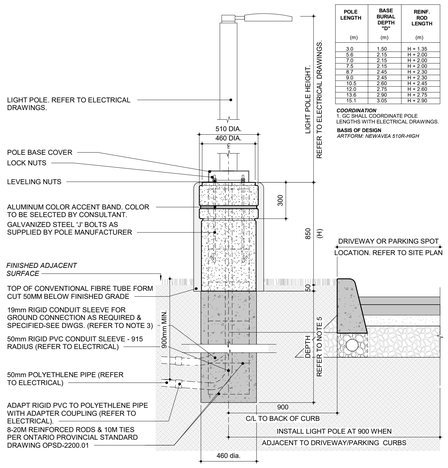
**PLAN VIEW @ GENERATOR**
**PLAN VIEW @ HYDRO TRANSFORMER**




***EXECUTION NOTES:***
1. ALL STEEL SHALL BE GALVANIZED
2. CONCRETE SHALL BE CLASS C2, 32 MPa CONCRETE COMPLETE WITH 5-8% AIR ENTRAINMENT
3. INSTALL ALL OTHER BOLLARDS NOT IDENTIFIED IN DETAIL AT LOCATIONS NOTED IN SITE PLAN

***BASIS OF DESIGN***
1. BOLLARD COVERS AS MANUFACTURED BY ONTARIO BOLLARD, SUREGUARD OR EQUIVALENT
2. COLOUR SHALL BE SELECTED FROM MANUFACTURERS FULL RANGE AND/OR AS REQUIRED BY AUTHORITIES HAVING JURISDICTION

## 7 TYPICAL BOLLARD DETAILS
1 : 20



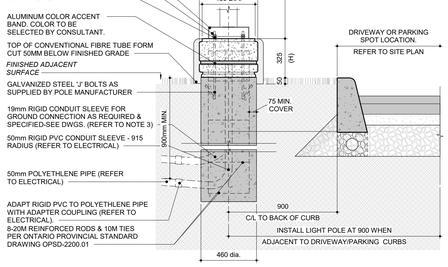

| POLE LENGTH (m) | BASE BURIAL DEPTH "D" (m) | REINF. ROD LENGTH (m) |
|---|---|---|
| 3.0 | 1.50 | H + 1.35 |
| 5.6 | 2.15 | H + 2.00 |
| 7.0 | 2.15 | H + 2.00 |
| 7.5 | 2.15 | H + 2.00 |
| 8.7 | 2.45 | H + 2.30 |
| 9.0 | 2.45 | H + 2.30 |
| 10.5 | 2.60 | H + 2.45 |
| 12.0 | 2.75 | H + 2.60 |
| 13.6 | 2.90 | H + 2.75 |
| 15.1 | 3.05 | H + 2.90 |

***COORDINATION***
1. GC SHALL COORDINATE POLE LENGTHS WITH ELECTRICAL DRAWINGS.

***BASIS OF DESIGN***
*ARTFORM: NEWAVEA 510R-HIGH*

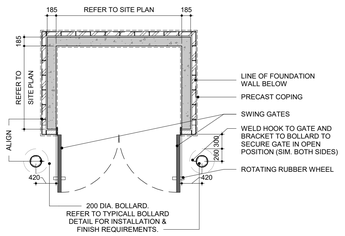
***EXECUTION NOTES:***
1. TOP OF FOUNDATION SHALL BE TROWELLED SMOOTH AND LEVEL.
2. CONCRETE SHALL BE 32 MPa CONCRETE 5-8% AIR ENTRAINED CLASS-C2 EXPOSURE.
3. PROVIDE A 19mm 3M STEEL COPPER COATED GROUND ROD ADJACENT TO POLES AND CONNECT TO METAL POLE WITH BARE COPPER CONDUCTOR
4. CAST-IN-PLACE CONCRETE MECHANICALLY VIBRATED AND HAND TAPPED TO ENSURE BEST FINISHED RESULT.
   - NOTE: POOR FINISHED RESULTS WILL BE REJECTED AND REPLACED AT NO ADDITIONAL COST TO THE CONTRACT
5. FOUNDATION DEPTH SHOWN IS SUBJECT TO SOIL CONDITIONS, REFER TO GEOTECHNICAL REPORT.
6. MINIMUM OF TWO SLEEVES REQUIRED FOR EACH CONCRETE FOUNDATION.
7. CONTRACTOR TO VERIFY OPENING SIZE IN POLE BASE PLATE PRIOR TO SETTING CONDUIT SLEEVES.
8. FORM RELEASE AGENT SHALL BE FACTORY APPLIED TO INSIDE SURFACE OF PRE-FABRICATED CONCRETE FORM.
9. REMOVE PREFABRICATED CONCRETE FORM WITHIN 24HRS OF CASTING CONCRETE BASE
10. WIRE BRUSH ANY TRACES OF PREFABRICATED CONCRETE FORM MATERIAL REMAINING ON FINISHED CONCRETE BASE.
11. USE RUBBING STONE TO MAKE SMOOTH ANY ROUGH CONCRETE EDGES AROUND TOP OF BASE AND ALONG VERTICAL SEAMS.
12. IF/WHEN THERE IS RISK OF DAMAGE TO EXPOSED BASE BY CONSTRUCTION EQUIPMENT, PROTECT BASE BY TIE-WIRING OR DUCT-TAPING THE TWO USED PREFABRICATED CONCRETE FORM HALVES BACK IN PLACE AROUND BASE UNTIL SAFE TO REMOVE PROTECTION.
13. CONCRETE FOUNDATION DEPTH AND REINFORMCENT SHALL BE BASED ON POLE LENGTH AS RECOMMENED BY MANUFACTUER.

## 3 LIGHT STANDARD HIGH BASE DETAIL
1 : 20

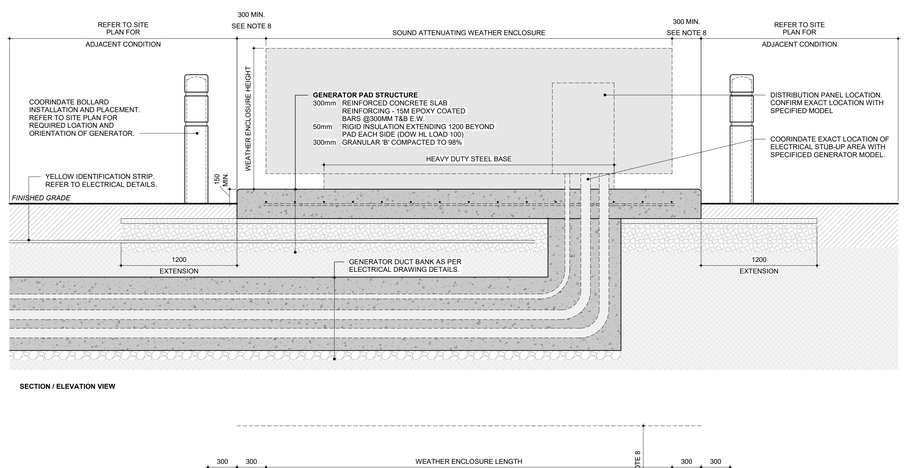



***EXECUTION NOTES:***
1. TOP OF FOUNDATION SHALL BE TROWELLED SMOOTH AND LEVEL.
2. CONCRETE SHALL BE 32 MPa CONCRETE 5-8% AIR ENTRAINED CLASS-C2 EXPOSURE.
3. PROVIDE A 19mm 3M STEEL COPPER COATED GROUND ROD ADJACENT TO POLES AND CONNECT TO METAL POLE WITH BARE COPPER CONDUCTOR
4. CAST-IN-PLACE CONCRETE MECHANICALLY VIBRATED AND HAND TAPPED TO ENSURE BEST FINISHED RESULT.
   - NOTE: POOR FINISHED RESULTS WILL BE REJECTED AND REPLACED AT NO ADDITIONAL COST TO THE CONTRACT
5. FOUNDATION DEPTH SHOWN IS SUBJECT TO SOIL CONDITIONS, REFER TO GEOTECHNICAL REPORT.
6. MINIMUM OF TWO SLEEVES REQUIRED FOR EACH CONCRETE FOUNDATION.
7. CONTRACTOR TO VERIFY OPENING SIZE IN POLE BASE PLATE PRIOR TO SETTING CONDUIT SLEEVES.
8. FORM RELEASE AGENT SHALL BE FACTORY APPLIED TO INSIDE SURFACE OF PRE-FABRICATED CONCRETE FORM.
9. REMOVE PREFABRICATED CONCRETE FORM WITHIN 24HRS OF CASTING CONCRETE BASE
10. WIRE BRUSH ANY TRACES OF PREFABRICATED CONCRETE FORM MATERIAL REMAINING ON FINISHED CONCRETE BASE.
11. USE RUBBING STONE TO MAKE SMOOTH ANY ROUGH CONCRETE EDGES AROUND TOP OF BASE AND ALONG VERTICAL SEAMS.
12. IF/WHEN THERE IS RISK OF DAMAGE TO EXPOSED BASE BY CONSTRUCTION EQUIPMENT, PROTECT BASE BY TIE-WIRING OR DUCT-TAPING THE TWO USED PREFABRICATED CONCRETE FORM HALVES BACK IN PLACE AROUND BASE UNTIL SAFE TO REMOVE PROTECTION.
13. CONCRETE FOUNDATION DEPTH AND REINFORMCENT SHALL BE BASED ON POLE LENGTH AS RECOMMENED BY MANUFACTUER.

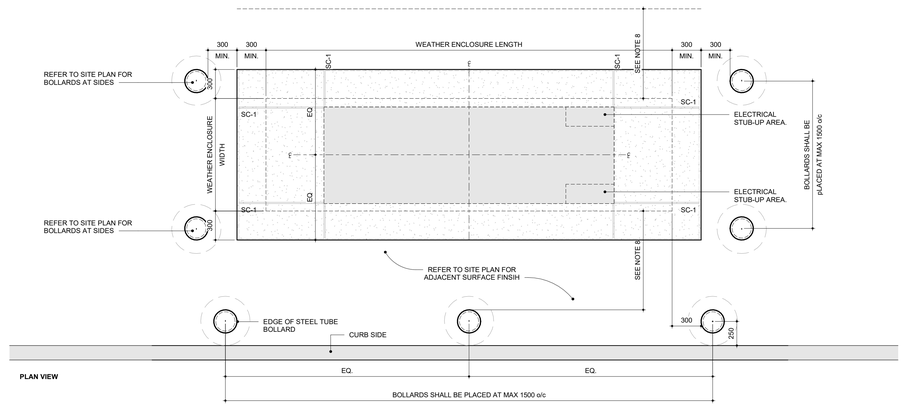
## 4 LIGHT STANDARD LOW BASE DETAIL
1 : 20




## 5 GARBAGE ENCLOSURE PLAN DETAIL
1 : 50



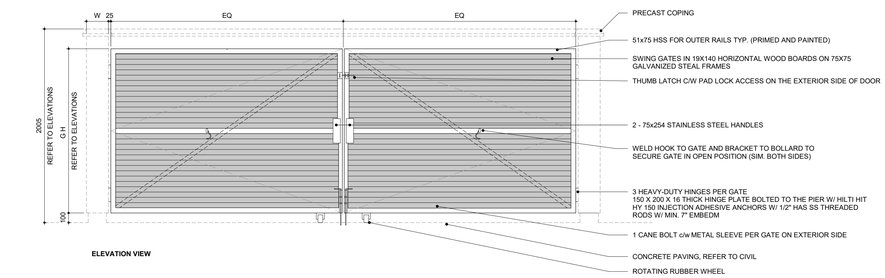

**SECTION / ELEVATION VIEW**



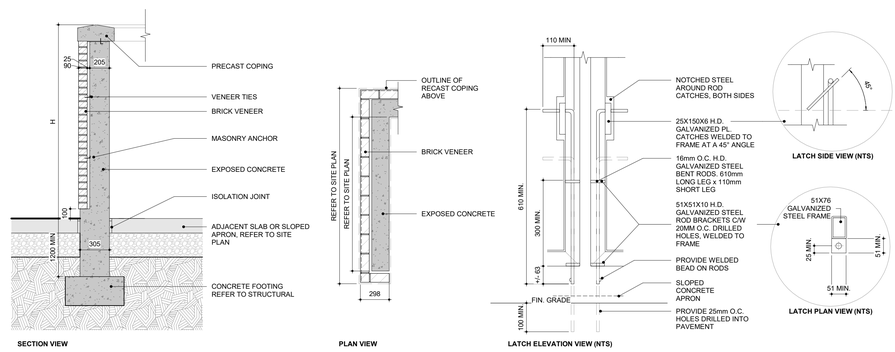

**PLAN VIEW**

***EXECUTION NOTES***
1. COORDIANTE THE SIZE OF PAD REQUIRED WITH THE SELECTED GENERATOR TO LOCATE AND PLACE THE HEAVY DUTY STEAL BASE.
2. CONCRETE PAD SHALL BE 150MM ABOVE ADJACENT SURFACE
3. PAD SHALL BE CONCRETE SLAB ON GRADE. 25MPA, CLASS C2 C/W 19M @300MM T&BEW.
4. PLACE SLAB ON MIN 300MM GRANULAR SUBASE COMPACTED TO 100% STANDARD PROCTOR DENSITY
5. TOP OF PAD SHALL BE FINISHED SMOOTH, LEVEL AND CLEARED OF ALL FRAMING MATERIAL AFTER CONCRETE SETS.
6. REVIEW GENERATOR INSTALLATION INSTRUCTIONS BEFORE FORMING THE CONDUIT STUB UP AREA. PROVIDE AREA PER MANUFACTURES REQUIREMENTS AND COORDINATE WITH GENEARTOR DUCT BANK INSTALLATION.
7. ALL CONDUIT ENTERING SLAB SHALL BE VERTICAL AND AT A 90 DEGREE ANGLE WITH TEH TOP OF SLAB. SUB ALL CONDUTIS 25MM ABOVE THE CONCRETE PAD. PROVIDE ALL SAPRE CONDUITS WITH PULLSTRINGS AND PLASTIC CAPS.
8. MAINTAIN A MINIMUM OF 1200mm BETWEEN EDGE OF WEATHER ENCLOSURE AND EDGE OF BOLLARD FOR DOOR SWINGS FROM GENERATOR.
9. CONCRETE PAD SHALL PROJECT MINIMUM 300MM BEYOND EXTERIOR FACES OF ENCLOSURE.
10. PROVIDE 19MM CHAMFER AT EDGE OF CONCRETE SLAB.

## 1 EXTERIOR GENERATOR DETAIL
1 : 25




**ELEVATION VIEW**




## 2 GARBAGE ENCLOSURE GATE DETAIL
1 : 25

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SEALS

ONTARIO ASSOCIATION OF ARCHITECTS
DAVID PREMI
LICENCE
4316

MISSISSAUGA

**CITY OF MISSISSAUGA FIRE STATION 123**

3050 THE COLLEGEWAY MISSISSAUGA, ONTARIO CANADA

| | |
|---|---|
| **SITE PLAN APPLICATION #** | SP 24-3 |
| **DEVELOPMENT TYPE** | EMERGENCY SERVICES |
| **LEGAL DESCRIPTION** | PART OF BLOCK 124 REGISTERED PLAN 43M-745 |
| **APPLICANT INFO** | DAVID PREMI, 25 MAIN ST. W, SUITE 1800, HAMILTON, ON L8P 1H1<br>905.522.0220 |
| **OWNER INFO** | CITY OF MISSISSAUGA, ADRIANA TANTALO, 300 CITY CENTRE DRIVE<br>905.615.3200 X 3395 |

| NO. | ISSUES/REVISIONS | DATE |
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| 0 | TENDER | 05/06/24 |

DRAWING TITLE:

**SITE DETAILS**

ISSUE DATE: 05/06/24

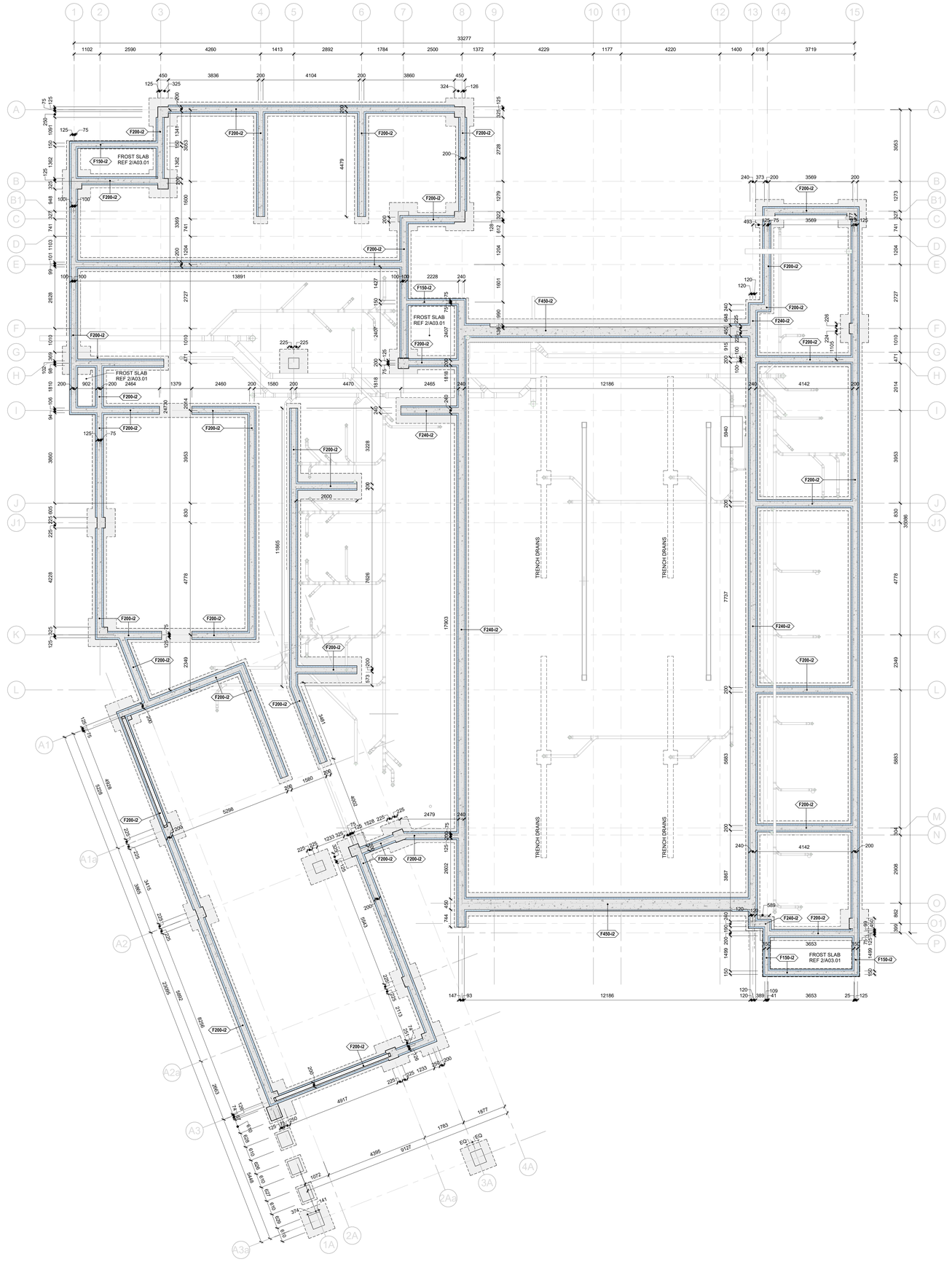
DRAWN BY: SRL CHECKED BY: SRL

PROJECT NO.: 12301 SCALE: As indicated

DRAWING NO.: REVISION:

**A02.06** **0**

LAST PLOT DATE: 2024-05-31 4:05:38 PM
A02.06




## GENERAL NOTES - FOUNDATION

***1. GENERAL REQUIREMENTS***

1. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH FOUNDATION PLANS PREPARED BY THE STRUCTURAL ENGINEER, MECHANICAL AND ELECTRICAL DRAWINGS.
2. ROUTING OF UNDERGROUND SERVICES IS SCHEMATIC. ALL UNDERGROUND SERVICES SHALL BE INSTALLED IN ACCORDANCE WITH MECHANICAL AND ELECTRICAL DRAWINGS.
3. PROVIDE SLEEVES FOR ALL PENETRATIONS THROUGH FOUNDATION WALLS WHERE INDICATED AND WHERE REQUIRED (TYP.)
4. PROVIDE DROPS IN FOUNDATION WALLS WHERE INDICATED AND WHERE REQUIRED AT EXTERIOR OPENINGS. AT DOORS AND OVERHEAD DOORS, EXTEND FLOOR SLABS AT FOUNDATION DROPS TO EXTERIOR FACE OF FOUNDATION WALL. ENSURE SLAB HAS POSITIVE SLOPE TO EXTERIOR FROM EXTERIOR FACE OF DOOR OR OVERHEAD DOOR (TYP.)
5. TAKE CARE DURING PLACEMENT OF CONCRETE TO MITIGATE FACTORS THAT CONTRIBUTE TO SURFACE DEFECTS. ENSURE FACE OF FOUNDATION WALLS THAT WILL REMAIN EXPOSED (TYPICALLY 300MM MINIMUM) IS FREE OF HONEYCOMBING OR OTHER SURFACE DEFECTS.
6. ENSURE FACE OF FOUNDATION WALLS THAT ABUT AN ADJACENT CONCRETE SLAB OR SIDEWALK ARE SMOOTH TO ENSURE TIGHT PLACEMENT OF EXPANSION JOINT OR EXPANSION JOINT CAP AND CAULKED JOINT. SCRAPE OR GRIND AS REQUIRED.

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# CITY OF MISSISSAUGA FIRE STATION 123

3050 THE COLLEGEWAY MISSISSAUGA, ONTARIO CANADA

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| 1 | PRELIMINARY ZONING REVIEW RE-SUBMISSION | 08/02/23 |
| 0 | SPA PRE-CONSULTATION | 03/28/23 |

DRAWING TITLE:

## FOUNDATION PLAN

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|---|---|
| ISSUE DATE: | 05/06/24 |
| DRAWN BY: SRL/AF | CHECKED BY: SRL |
| PROJECT NO.: 12301 | SCALE: As indicated |
| DRAWING NO.: | REVISION: |

# A03.01

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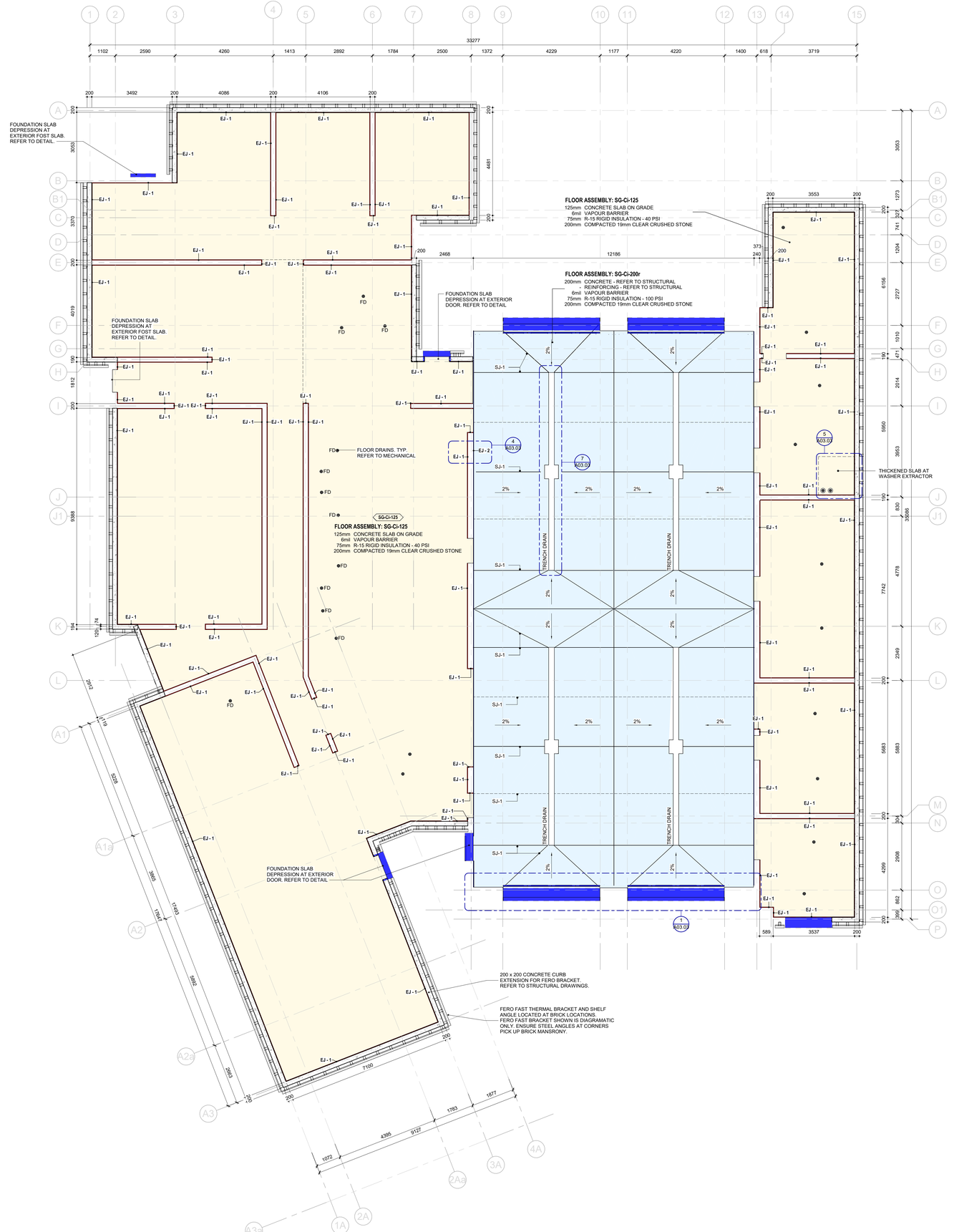
PLOT DATE: 2024-05-06 4:05:45 PM




## GENERAL NOTES - SLAB SETOUT PLAN

1. ***GENERAL REQUIREMENTS***
   1. THIS DRAWING SHALL BE READ IN CONJUNCTION WITH FOUNDATION PLANS PREPARED BY THE STRUCTURAL ENGINEER.
   2. APPARATUS / VEHICLE BAY SLABS ARE REINFORCED CONCRETE SLABS THAT SHALL BE PREPARED PROPERLY PRIOR TO EXECUTION.
2. ***SLAB AND FOUNDATION DEPRESSIONS***
   1. PROVIDE DROPS IN FOUNDATION WALLS WHERE INDICATED AND WHERE REQUIRED AT EXTERIOR OPENINGS.
   2. WHERE SLABS ABUT OVERHEAD DOORS OR DOOR OPENINGS. SLAB MUST BE CROWNED BENEATH DOOR TO ENSURE FLOW OF WATER FROM EXTERIOR FACE OF DOOR TO EXTERIOR.
   3. AT DOOR OPENINGS EXTEND SLAB TO EXTERIOR FACE OF FOUNDATION WALL. AT OVERHEAD DOOR OPENINGS, EXTEND SLAB TO MIDDLE OF SUPPORTING FOUNDATION WALL TO ABUT TO REINFORCED EXTERIOR CONCRETE APRON
3. ***CONTROL JOINTS AND EXPANSION JOINTS***
   1. WHERE SLABS ABUT A WALL, THE WALL MUST BE SMOOTH AND FREE OF PROJECTIONS SO THAT THE EXPANSION JOINT SITS DIRECTLY AGAINST THE WALL. THIS ALLOWS FOR A CLEAN AND CONSISTENT CAULKED JOINT WHEN FINISHED.
   2. EXPANSION JOINT MUST BE SET WITH AN EXPANSION JOINT CAP (SNAP-CAP AS MANUFACTURED BY WR MEADOWS OR EQUIVALENT). AFTER PLACEMENT OF SLAB, REMOVE TOP OF EXPANSION JOINT CAP AND CAULK JOINT.
   3. COORDINATE SAWCUTTING OF SLAB TO PREVENT EXCESSIVE RAVELING (TOO EARLY) OR CRACKING (TOO LATE).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SEALS

ONTARIO ASSOCIATION OF ARCHITECTS — DAVID PREMI LICENCE 4316

MISSISSAUGA

**CITY OF MISSISSAUGA FIRE STATION 123**

3050 THE COLLEGEWAY MISSISSAUGA, ONTARIO CANADA

| | |
|---|---|
| **SITE PLAN APPLICATION #** | SP 24-3 |
| **DEVELOPMENT TYPE** | EMERGENCY SERVICES |
| **LEGAL DESCRIPTION** | PART OF BLOCK 124 REGISTERED PLAN 43M-745 |
| **APPLICANT INFO** | DAVID PREMI, 25 MAIN ST. W, SUITE 1800, HAMILTON, ON L8P 1H1 905.522.0220 |
| **OWNER INFO** | CITY OF MISSISSAUGA, ADRIANA TANTALO, 300 CITY CENTRE DRIVE 905.615.3200 X 3395 |

| NO. | ISSUES/REVISIONS | DATE |
|---|---|---|
| 10 | TENDER | 05/06/24 |
| 9 | SPA RESUBMISSION | 03/12/24 |
| 8 | BP - RESUBMISSION | 02/23/24 |
| 7 | PERMIT | 01/22/24 |
| 6 | CLASS A ESTIMATE | 01/22/24 |
| 5 | 90% CD SUBMISSION | 1/22/24 |
| 4 | FORMAL SPA | 12/05/23 |
| 3 | MINOR VARIANCE APPLICATION | 09/08/23 |
| 2 | PAM 1 RE-SUBMISSION | 09/07/23 |
| 1 | PRELIMINARY ZONING REVIEW RE-SUBMISSION | 08/02/23 |
| 0 | SPA PRE-CONSULTATION | 03/28/23 |

DRAWING TITLE:

**LAYOUT - SLAB SETOUT PLAN**

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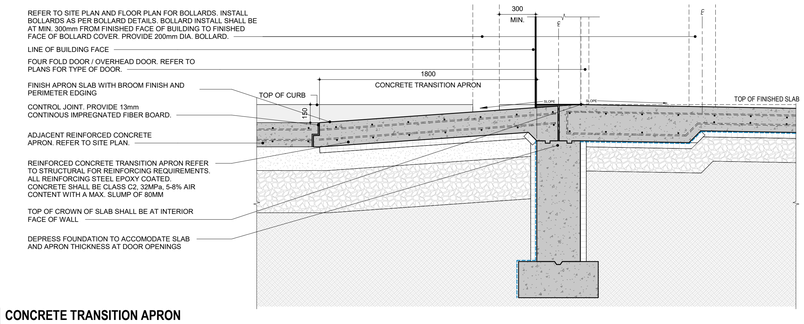
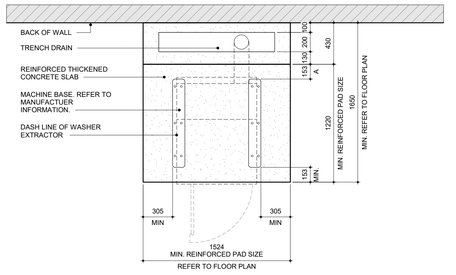
|---|---|
| ISSUE DATE: | 05/06/24 |
| DRAWN BY: SRL/AF | CHECKED BY: SRL |
| PROJECT NO.: 12301 | SCALE: As indicated |
| DRAWING NO.: | REVISION: |

**A03.02** | **10**

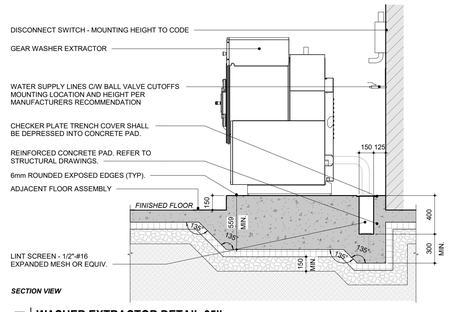

PLOT DATE: 2024-05-05 4:43:53 PM




## 1 CONCRETE TRANSITION APRON
1 : 20

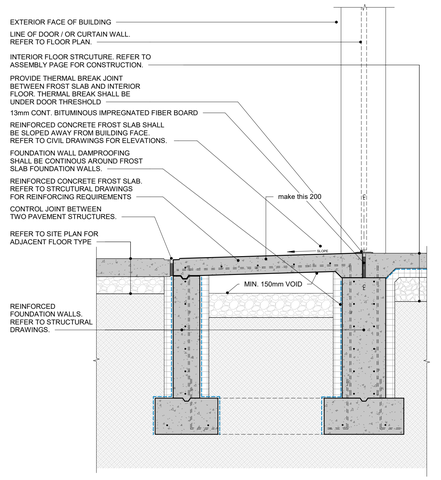



***PLAN VIEW***




***SECTION VIEW***

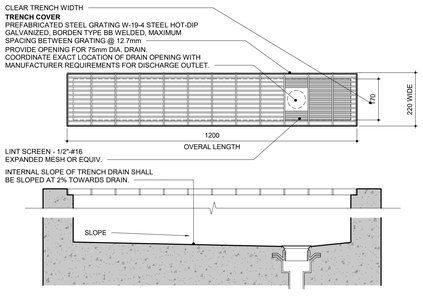
## 5 WASHER EXTRACTOR DETAIL 65lb
1 : 25



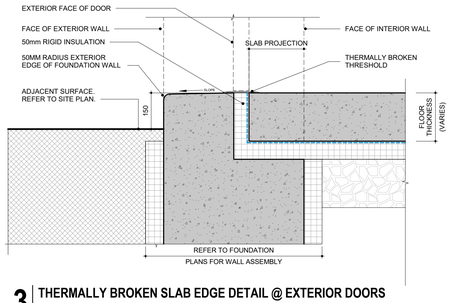

***EXECUTION NOTES***

1. FROST SLABS SHALL BE PLACED AT ENTRANCES WHERE INDICATED ON STRUCTURAL & ARCHITECTURAL PLANS.
2. REVIEW ARCHITECTURAL FOUNDATION PLANS AND PROVIDE INSULATION AS INDICATED FROM UNDERSIDE OF SLAB TO TOP OF FOOTINGS. PROVIDE CONT. DAMPPROOFING FULL HEIGHT OF FOUNDATION ALL AND FOOTINGS.
3. GC TO REVIEW CIVIL DRAWINGS TO ENSURE SLOPE OF FROST SLAB IS DIRECTED AWAY FROM THE BUILDING FACE.
4. ALL REINFORCING SHALL BE STEEL EXPOXY COATED.
5. SIZE OF FOUNDATION WALLS AND FOOTINGS SHALL BE AS REQUIRED. REFER TO ARCHITECTURAL AND STRUCTURAL DRAWINGS.
6. FOUNDATION WALL SHALL BE DEPRESSED TO ACCOMODATE FROST SLAB THICKNESS AT DOOR OPENINGS
7. FROST SLAB SHALL BE SLOPED AT A MINIMUM OF 1% AWAY FROM BUILDING FACES.
8. PROVIDE 200mm GRANULAR 'A' AT 150mm BELOW FROST SLAB COMPACTED.
9. FINISH APRON SLAB WITH BROOM FINISH AND PERIMETER EDGING. REFER TO "CONCRETE SIDEWALK PAVEMENT" DETAIL.

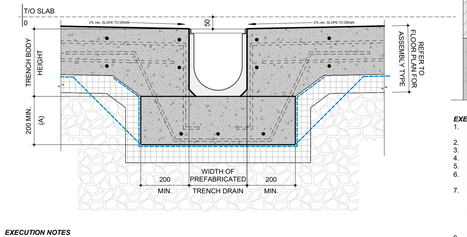
## 2 FROST SLAB DETAIL
1 : 20




## 6 WASHER EXTRACTOR TRENCH DETAIL
1 : 10



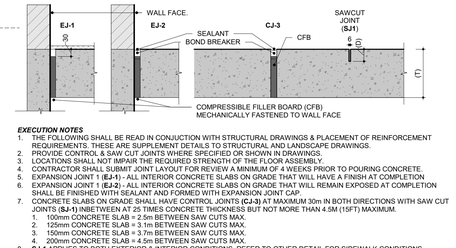

## 3 THERMALLY BROKEN SLAB EDGE DETAIL @ EXTERIOR DOORS
1 : 10




***EXECUTION NOTES***

1. CAST 200mm DEEP PLACING SLAB (A) IN FIRST POUR TO FACILITATE INSTALLATION OF TRENCH PLACEMENT.
2. CONTRACTOR SHALL ENSURE SHOP DRAWINGS ARE PROVIDED TO REVIEW TRENCH DRAINS PRIOR TO REBAR SHOP DRAWING AND POURING OF CONCRETE ON SITE.
3. ALL REINFORCING SHOWN IS DIAGRAMIC. REFER TO STRUCTURAL DRAWINGS FOR REINFORCING SIZE AND PLACEMENT LOCATION.
4. ENSURE CONTINUITY OF REINFORCING FROM ADJACENT SLABS THROUGH TRENCH DRAIN SETTING PAD
5. PROTECT GRATES AND DRAIN BODY FROM DAMAGE AND OR DEFLECTION DURING SLAB PLACEMEN

## 7 TRENCH DRAIN DETAIL
1 : 10




***EXECUTION NOTES***

1. THE FOLLOWING SHALL BE READ IN CONJUCTION WITH STRUCTURAL DRAWINGS & PLACEMENT OF REINFORCEMENT REQUIREMENTS. THESE ARE SUPPLEMENT DETAILS TO STRUCTURAL AND LANDSCAPE DRAWINGS.
2. PROVIDE CONTROL & SAW CUT JOINTS WHERE SPECIFIED OR SHOWN IN DRAWINGS.
3. LOCATIONS SHALL NOT IMPAIR THE REQUIRED STRENGTH OF THE FLOOR ASSEMBLY.
4. CONTRACTOR SHALL SUBMIT JOINT LAYOUT FOR REVIEW A MINIMUM OF 4 WEEKS PRIOR TO POURING CONCRETE.
5. EXPANSION JOINT 1 (**EJ-1**) - ALL INTERIOR CONCRETE SLABS ON GRADE THAT WILL HAVE A FINISH AT COMPLETION.
6. EXPANSION JOINT 1 (**EJ-2**) - ALL INTERIOR CONCRETE SLABS ON GRADE THAT WILL REMAIN EXPOSED AT COMPLETION SHALL BE FINISHED WITH SEALANT AND FORMED WITH EXPANSION JOINT CAP.
7. CONCRETE SLABS ON GRADE SHALL HAVE CONTROL JOINTS (**CJ-3**) AT MAXIMUM 30m IN BOTH DIRECTIONS WITH SAW CUT JOINTS (**SJ-1**) INBETWEEN AT 25 TIMES CONCRETE THICKNESS BUT NOT MORE THAN 4.5M (15FT) MAXIMUM.
   1. 100mm CONCRETE SLAB = 2.5m BETWEEN SAW CUTS MAX.
   2. 125mm CONCRETE SLAB = 3.1m BETWEEN SAW CUTS MAX.
   3. 150mm CONCRETE SLAB = 3.7m BETWEEN SAW CUTS MAX.
   4. 200mm CONCRETE SLAB = 4.5m BETWEEN SAW CUTS MAX.
8. **SJ-1** APPLIES TO BOTH EXTERIOR & INTERIOR CONDITIONS. REFER TO OTHER DETAIL FOR SIDEWALK CONDITIONS.
9. **SJ-1** DEPTH (D) SHALL BE AS FOLLOWS:
   1. FOR SLABS LESS THAN 150mm - (T)/3 BUT NOT LESS THAN 38mm
   2. FOR SLABS GREATER THAN 150mm - (T)/3 BUT NOT LESS THAN 50mm
10. **SJ-1** SHALL BE COMPLETELY FILLED WITH APPROVED JOINT FILLER. REFER TO STRUCTURAL SPECIFICATIONS.
11. SNAP-CAP AS MANUFACTURED BY WR MEADOWS OR EQUIVALENT

## 4 TYPICAL CONCRETE SLAB JOINT DETAIL
1 : 10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SEALS

ONTARIO ASSOCIATION OF ARCHITECTS — DAVID PREMI — LICENCE 4315

MISSISSAUGA

**CITY OF MISSISSAUGA FIRE STATION 123**

3050 THE COLLEGEWAY MISSISSAUGA, ONTARIO CANADA

| | |
|---|---|
| **SITE PLAN APPLICATION #** | SP 24-3 |
| **DEVELOPMENT TYPE** | EMERGENCY SERVICES |
| **LEGAL DESCRIPTION** | PART OF BLOCK 124 REGISTERED PLAN 43M-745 |
| **APPLICANT INFO** | DAVID PREMI, 25 MAIN ST. W, SUITE 1800, HAMILTON, ON L8P 1H1<br>905.522.0220 |
| **OWNER INFO** | CITY OF MISSISSAUGA, ADRIANA TANTALO, 300 CITY CENTRE DRIVE<br>905.615.3200 X 3395 |

| NO. | ISSUES/REVISIONS | DATE |
|---|---|---|

DRAWING TITLE:

**FOUNDATION & SLAB DETAILS**

ISSUE DATE:

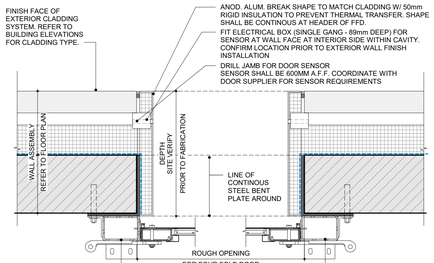
DRAWN BY: Author — CHECKED BY:Checker

PROJECT NO.: 12301 — SCALE: As indicated

DRAWING NO.: — REVISION:

**A03.03**

PLOT DATE: 2024-05-02 1:45:59 PM

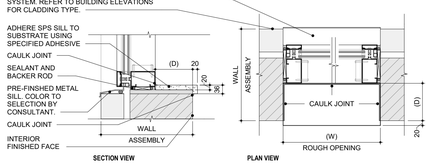



***EXECUTION NOTES:***

1. ALL STEEL GALVANIZED.
2. GRIND SMOOTH ALL WELDS
3. CONFIRM FOUR FOLD DOOR MOUNTING REQUIREMENTS WITH DOOR MANUFACTURER PRIOR TO INSTALLATION.

## 2 FOUR FOLD DOOR JAMB DETAIL

1 : 10

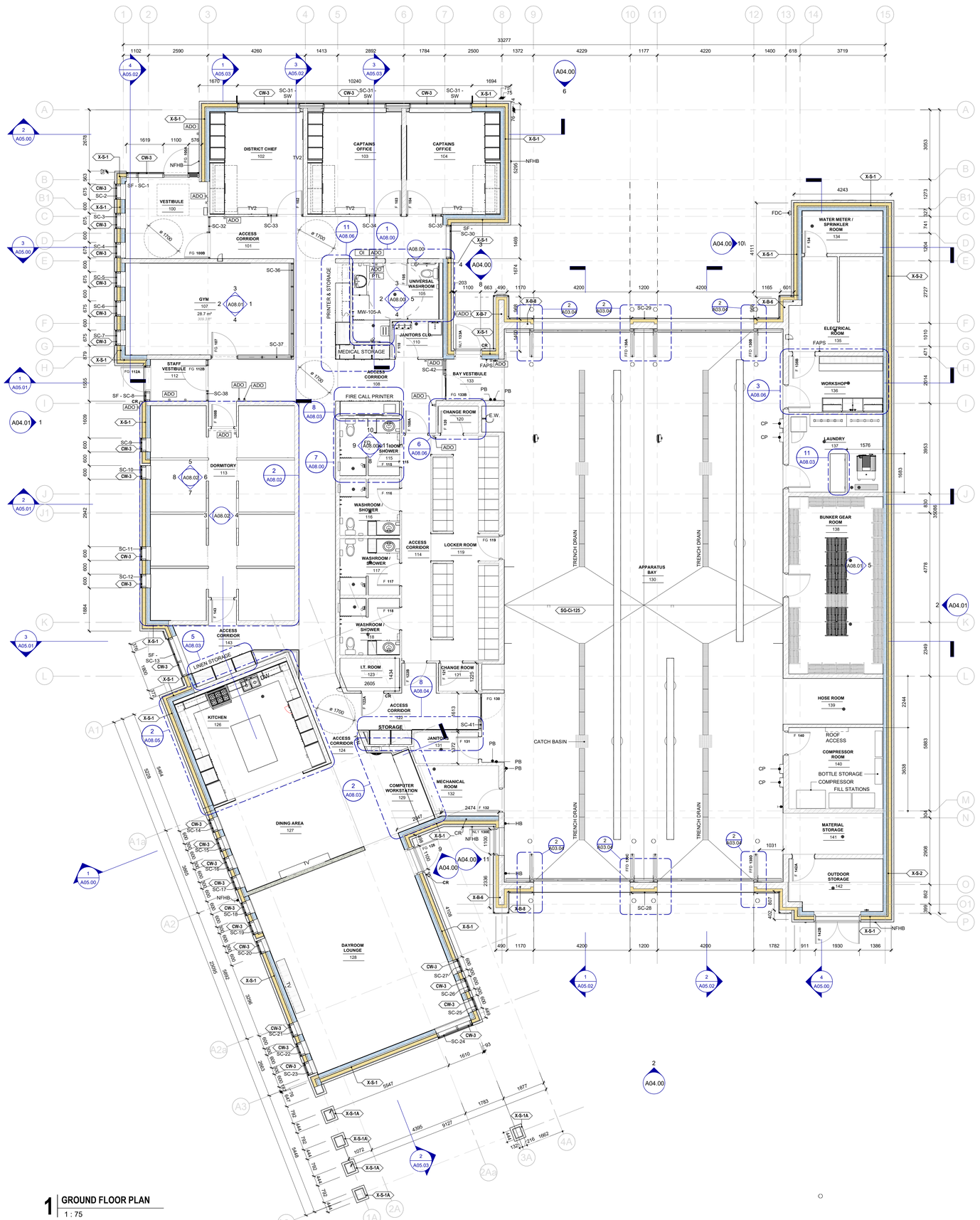



***EXECUTION NOTES***

1. ALL WINDOWS / GLAZING SHALL RECEIVE A SILL THAT ARE NOT FLUSH WITH THE FLOOR.
2. DEPTH (D) OF SOLID SURFACE SILL SHALL BE SITE CONFIRMED WHEN THE INSTALLATION OF THE WINDOW FRAME IS INSTALLED.
3. WIDTH (W) OF SILL SHALL BE SITE CONFIRMED WHEN THE ROUGH FINISHED OPENING IS COMPLETED (I.E BLOCK ROUGH OPENING, OR GYPSUM BOARD INSTALLED AT STUD ASSEMBLIES).
4. PRODUCT SAMPLE SUBMITTAL IS REQUIRED PRIOR TO FABRICATION, INCULSIVE OF LAYOUT SHOP DRAWING.
5. SILL SHALL BE PLACED LEVEL ON APPROPRIATE SUBSTRATE SUITABLE AT EACH WINDOW LOCATION.ENSURE SILL PLACED ON LEVEL, SOUND SUBSTRATE SUITABLE FOR THIS APPLICATION

## 3 WINDOW SILL DETAIL

1 : 10




## 1 GROUND FLOOR PLAN

1 : 75

## GENERAL NOTES - FLOOR PLAN

***1. GENERAL REQUIREMENTS***

1. ALL WORK SHALL CONFORM TO THE REQUIREMENTS OF ALL EXISTING BY-LAWS, CODES, MUNICIPAL GOVERNMENTS AND AUTHORITIES HAVING JURISDICTION. OBTAIN ALL PERMITS REQUIRED IN ACCORDANCE WITH THE CONTRACT.
2. CAREFUL EXAMINATION OF ALL TENDER DOCUMENTS IS REQUIRED TO DETERMINE THE FULL SCOPE OF THE WORK.
3. DO NOT SCALE THE DRAWINGS. VERIFY ALL CONDITIONS ON-SITE BEFORE PROCEEDING WITH WORK. ANY CONFLICT OR DISCREPANCY BETWEEN INFORMATION ON DRAWINGS AND ACTUAL FIELD CONDITIONS SHOULD BE BROUGHT TO THE ARCHITECT'S ATTENTION FOR RESOLUTION PRIOR TO COMMENCING WORK.
4. DIMENSIONS SHOWN ARE TAKEN TO FACE OF CMU, POURED CONCRETE, OR WALL STUD UNLESS NOTED OTHERWISE. ALL GWB OR CMU PARTITIONS TO EXTEND TIGHT TO U/S OF ROOF DECKS UNLESS NOTED OTHERWISE.
5. REFER TO STRUCTURAL DRAWINGS FOR LATERAL SUPPORT AT THE TOP OF CMU WALLS.
6. ALL INTERIOR ALUM SCREENS SHALL HAVE GWB AND METAL STUD ASSEMBLIES FROM TOP OF SCREEN/DOOR FRAME TO UNDERSIDE OF DECK UNLESS A LINTEL HAS BEEN PROVIDED BY STRUCTURAL WITH BLOCK WALL ABOVE TO U/S DECKS.
7. WHERE SCREENS OR DOORS OCCUR WITHIN WALLS CONSTRUCTED AS FIRE SEPARATIONS, THE WALL ABOVE SUCH SCREENS OR DOORS SHALL BE CONSTRUCTED TO PROVIDE THE REQUIRED FIRE RESISTANCE RATING INDICATED.
8. ON ALL EXPOSED CORNERS OF EXPOSED MASONRY WALLS PROVIDE BULLNOSE BLOCK AT ALL COURSES ABOVE THE FIRST COURSE UNLESS NOTED OTHERWISE.
9. WHERE DUCTS, PIPES, AND CONDUITS PENETRATE EXPOSED MASONRY PARTITIONS, CUT BLOCKS TO SUIT REQUIRED OPENINGS TO MINIMIZE PATCHING.
10. CONSTRUCT PARTITIONS AND WALLS AS FIRE SEPARATIONS WHERE INDICATED ON PLAN.
11. REVIEW PLANS, ELEVATIONS AND DETAILS FOR MILLWORK, SCREENS, DOORS AND ALL WALL HUNG ITEMS AND ENSURE THAT ADEQUATE BLOCKING IS PROVIDED WITHIN PARTITIONS AND CEILINGS.
12. CONTRACTOR TO PROVIDE ALL NECESSARY FASTENINGS, ANCHORS, BRACKETS, ACCESSORIES AND SUPPORTS REQUIRED TO EXECUTE THE WORK.
13. WHERE FIRE RATED PARTITIONS ABUT NON-RATED PARTITIONS THE CONTINUITY OF THE FIRE RATED ASSEMBLY SHALL BE MAINTAINED.
14. SEAL PERIMETER OF WALLS AND AROUND PENETRATIONS THROUGH WALLS WITH ACOUSTIC SEALANT WHERE SOUND ATTENUATION BATTS ARE CALLED FOR ON THE WALL TYPE.
15. SEAL PERIMETER OF FIRE RATED WALLS AND AROUND PENETRATIONS THROUGH FIRE RATED WALLS WITH APPROVED FIRESTOP MATERIALS.
16. UNLESS OTHERWISE INDICATED ALL DOORS SHALL BE INSTALLED SO THAT THE EDGE OF DOOR (NOT FRAME) ON HINGE SIDE IS 100MM FROM ANY ADJACENT INSIDE CORNER.
17. REFER TO ELECTRICAL DWGS FOR LOCATIONS OF PANELS, DOOR CONTROLS, SECURITY DEVICES ETC NOT SHOWN ON ARCHITECTURAL DRAWINGS.
18. WALL ACCESS PANELS - WHERE POSSIBLE, ACCESS PANELS IN WALLS ARE TO BE LOCATED ON SIDE WALLS OR IN LOCATIONS WITH MINIMAL VISUAL IMPACT. ACCESS PANELS ARE TO BE PAINTED TO MATCH ADJACENT WALL FINISHES UNLESS OTHERWISE NOTED. ALL ACCESS PANELS ARE TO BE KEYED AS DIRECTED BY OWNER.
19. WHERE MULTIPLE EXPOSED EQUIPMENT ITEMS ARE INDICATED ON THE SAME WALL, INSTALL EQUIPMENT WITH VERTICAL OR HORIZONTAL CENTRE LINES ALIGNED, AS APPLICABLE UNLESS OTHERWISE NOTED.
20. WHERE EXPOSED MECH. AND/OR ELECT. DEVICES AND EQUIP. SUCH AS FIRE EXTINGUISHER CABINETS, ELEC. PANELS, CABINET HEATER, CEILING MOUNTED DEVICES, ETC. ARE INDICATED IN THE SAME WALL OR CEILING, INSTALL EQUIPMENT WITH VERTICAL OR HORIZONTAL CENTER LINES ALIGNED, AS APPLICABLE.

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SEALS

ONTARIO ASSOCIATION OF ARCHITECTS 1 ARCHITECTURE LICENCE 4316

MISSISSAUGA

**CITY OF MISSISSAUGA FIRE STATION 123**

3050 THE COLLEGEWAY MISSISSAUGA, ONTARIO CANADA

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| 11 | BP-RESUBMISSION | 05/02/24 |
| 10 | BP-RESUBMISSION | 03/27/24 |
| 9 | SPA RESUBMISSION | 03/12/24 |
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| 1 | PRELIMINARY ZONING REVIEW RE-SUBMISSION | 08/02/23 |
| 0 | SPA PRE-CONSULTATION | 03/28/23 |

DRAWING TITLE:

**FLOOR PLAN**

| | |
|---|---|
| ISSUE DATE: | 05/06/24 |
| DRAWN BY: SRL/AF | CHECKED BY: SRL |
| PROJECT NO.: 12301 | SCALE: As indicated |

DRAWING NO.: **A03.04**

REVISION: **12**

PLOT DATE: 2024-05-06 4:06:14 PM

## GENERAL NOTES - PARTITIONS

1. ***GENERAL REQUIREMENTS***
   1. DRAWING TO BE READ IN CONJUNCTION WITH ARCHITECTURAL, MECHANICAL & ELECTRICAL ENGINEERING DRAWINGS SPECIFICATIONS. REPORT ANY DISCREPANCIES BETWEEN CONSULTANTS' DRAWINGS TO DPAI FOR CLARIFICATION.
   2. PARTITIONS ARE DISTINGUISHED ON THIS FLOOR PLAN BY SYMBOL DESIGNATION, GRAPHIC DESIGNATION OR A COMBINATION OF BOTH DESIGNATIONS.
   3. DETAILS MODIFYING THE CONFIGURATION OF PARTITION TYPES SHOWN ON PLANS SHALL GOVERN. VERIFY WITH CONSULTANT ON SITE EXACT WALL TYPES TO BE USED IF UNCLEAR, THE CONTRACTOR SHALL BE BOUND TO THE CONSULTANTS INTERPRETATION OF WALL TYPES
2. ***COORDINATION***
   1. IN AREAS WHERE INTERFERENCE BY OTHER TRADES MAKE IT IMPOSSIBLE TO ERECT PARTITIONS TO SPECIFIED HEIGHT, PROVIDE ANGLE AND TRAPEZE BRACING AT PARTITION ABOVE CEILING TO ENSURE STRUCTURAL STABILITY.
   2. COORDINATE WITH SECTION 06 10 53 FOR INSTALLATION OF ALL WOOD BLOCKING AND BACKING FOR WALL MOUNTED DEVICES, ACCESSORIES, AND MILLWORK, ETC. PROVIDE STUD LAYOUT/SPACING TO SUIT (COORDINATE WITH DRAWINGS FOR AREAS RECEIVING METAL BLOCKING/BACKING).
3. ***LAYOUT***
   1. ALL PARTITIONS ARE TO BE CHALKED ON SITE & APPROVED BY CONSULTANT PRIOR TO INSTALLATION OF FLOOR & CEILING TRACK.
   2. CONTRACTOR TO ENSURE THE FLOOR SLAB IS LEVEL PRIOR TO CONSTRUCTION OF PARTITIONS. PROVIDE SKIM COAT IF/AS REQUIRED. VARIANCE NOT TO EXCEED 20mm IN AREAS WHERE FILING CABINETS OR SHELVING UNITS ARE LOCATED. REFER TO FURNITURE PLAN FOR CABINET LAYOUTS.
   3. CONTRACTOR TO REVIEW MECHANICAL DRAWINGS TO ENSURE PROVISION FOR AIR TRANSFER OPENINGS ABOVE CEILING PARTITION CONSTRUCTION.
4. ***METAL STUD FRAMING***
   1. "METAL STUDS" INDICATED FOR INTERIOR PARTITIONS REFER TO THOSE SPECIFIED IN SECTION 09 22 00 - METAL SUPPORTS FOR GYPSUM AND CEMENT BOARD. REFER TO SPECIFICATIONS FOR ADDITIONAL CRITERIA SUCH AS MINIMUM STUD SPACING, MINIMUM GAUGE AND PERMISSIBLE DEFLECTION LIMITS.
   2. SEE SECTION 05 41 13 - LATERAL LOAD-BEARING COLD-FORMED METAL FRAMING. SUBMIT ENGINEERED SHOP DRAWINGS.
   3. CO-ORDINATE STUD LOCATIONS AND ADDITIONAL METAL FRAMING WITH DRAWINGS FOR WORK BY ELECT./ MECH. CONTRACTORS (RECESSED ELECTRICAL PANELS, DEVICE BOXES, SERVICE PENETRATIONS, GRILLES, TERMINALS, DUCTING, FRAMING AROUND FIRE DAMPERS, SERVICE PENETRATIONS ETC.)
   4. MECHANICALLY FASTEN INSULATION TO METAL STUDS TO PREVENT SAGGING WHERE METAL STUDS EXCEEDS 3-5/8".
   5. PROVIDE 14 GAUGE STRUCTURAL METAL STUDS FLOOR TO CEILING AT ALL DOOR JAMBS AND INTERMEDIATE BRACING ABOVE INTERMEDIATE POINT OF DOUBLE DOORS.
5. ***GYPSUM BOARD PARTITIONS***
   1. MOISTURE-RESISTANT (CEMENTITIOUS BOARD) TO BE PROVIDED FOR PARTITIONS IN AREAS OF HIGH HUMIDITY AND/OR WET AREAS, AND WALLS CONTAINING WATER LINES (WASHROOMS, HOUSEKEEPING, SOILED UTILITY, HAND HYGIENE STATIONS, EYEWASH SINKS, ETC.)
   2. TIGHTLY FIT ALL GYPSUM BOARD AND ACOUSTIC INSULATION AROUND DUCTS, PIPES, CONDUITS, AND STRUCTURAL MEMBERS PASSING THRU PARTITIONS. COORDINATE WITH MECHANICAL AND ELECTRICAL DIVISIONS. PROVIDE AIR TIGHT SEALS AT PENETRATIONS, FLOOR/WALL INTERFACE, U/S SLAB.
   3. PARTITIONS ARE INDICATED WITH CONVENTIONAL GYPSUM WALLBOARD U.N.O.; UPGRADE TO PREMIUM TYPES OF WALLBOARD (I.E., FIRE-RATED, MOISTURE-RESISTANT, TILE-BACKER BOARD, ACOUSTICALLY ENHANCED, ABUSE RESISTANT, ETC.) BASED ON THEIR LOCATION AND ACCORDING TO REQUIREMENTS OF SECTION 09 29 00.
6. ***STC PARTITIONS***
   1. SOUND TRANSMISSION CLASS (STC) IS A RATING SYSTEM THAT DESCRIBES THE ABILITY OF AN ASSEMBLY TO REDUCE THE TRANSMISSION OF SOUND. CONFIGURE SOUND-RATED WALL ASSEMBLIES ACCORDING TO THE MINIMUM REQUIREMENTS STIPULATED IN THE STC TESTS LISTED. STC RATINGS LISTED ARE BASED ON LABORATORY TESTING AND ARE NOT INDICATIVE OF RESULTS IN FIELD.
   2. REFER TO SECTION 09 29 00 FOR ACOUSTIC SEALANTS.
   3. SOUND ATTENUATION BATTS (SAB) ARE SPECIFIED IN SECTION 09 29 00. WHERE SAB ARE INDICATED, THEY SHALL EXTEND CONTINUOUSLY FROM FLOOR TO STRUCTURE ABOVE.
7. ***FIRE RATED PARTITIONS***
   1. FOR FIRE SEPARATION AND LIFE SAFETY DRAWING REFER TO A01 SERIES DRAWINGS.
   2. NON-RATED FIRE SEPARATIONS DENOTED WITH 0HR FIRE RATING TO BE SEALED TO PREVENT THE PASSAGE OF SMOKE. SMOKE SEPARATION (FIRE SEPARATION INDICATED). SEAL PENETRATIONS AND EDGES WITH SMOKE SEAL CAULKING. PROVIDE FOAMED IN-PLACE INSULATION AT INTERFACE OF TOP TRACK TO U/S OF STRUCTURE TO FILL VOIDS. COVER FOAMED IN-PLACE INSULATION WITH THERMAL BARRIER.
   3. SEALANTS INDICATED MAY BE FOR FIRE RATING, SMOKE RATING, AIR PRESSURE CONTAINMENT, ACOUSTIC RATING, VERMIN CONTROL, MOVEMENT (CRACK) CONTROL AND/OR BIOLOGICAL CONTAINMENT. SEALANT JOINTS ARE TO BE SIZED FOR EXPECTED MOVEMENT OF JOINT WITH EXPANSION/CONTRACTION CAPACITY OF SEALANT MATERIAL TO MAINTAIN THE INTEGRITY OF THE SEAL FOR THESE APPLICABLE PARAMETERS. SEE SPECIFICATION SECTION 07 92 00 FOR INTERIOR JOINT SEALANTS.
   4. REFER TO SECTION 07 84 00 FOR HEAD-OF-WALL FIRESTOPPING AND SEALING OF THRU-WALL PENETRATIONS. ALL PENETRATIONS THROUGH RATED PARTITIONS SHALL BE FIRE STOPPED BY ULC APPROVED MATERIAL AND BY THE ABOVE SECTION U.N.O.
   5. "LINE OF STRUCTURE" INDICATED FOR EACH PARTITION IS DIAGRAMMATIC ONLY AND DOES NOT INDICATE EXACT CONSTRUCTION CONDITIONS OR GEOMETRY.
   6. FIRE RESISTANT AND FIRE RESISTANT SMOKE BARRIER RATINGS ARE TO CONTINUE THROUGH ALL OPENINGS IN RATED PARTITIONS.
   7. SMOKE RESISTANT, FIRE RESISTANT, AND FIRE RESISTANT SMOKE BARRIER PARTITIONS SHALL EXTEND AND SEAL TO INSIDE FACE OF EXTERIOR SHEATHING, INCLUDING EXTENSIONS THROUGH SOFFITS.

## INTERIOR WALL ASSEMBLIES

- B-90-1
- B-140-1
- B-190-1
- B-240-1
- B-290-1
- P1-S-1
- P2-S-1
- P2-S-2
- P3-S-1
- P12-Si-2

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MISSISSAUGA

**CITY OF MISSISSAUGA FIRE STATION 123**

3050 THE COLLEGEWAY MISSISSAUGA, ONTARIO CANADA

| | |
|---|---|
| **SITE PLAN APPLICATION #** | SP 24-3 |
| **DEVELOPMENT TYPE** | EMERGENCY SERVICES |
| **LEGAL DESCRIPTION** | PART OF BLOCK 124 REGISTERED PLAN 43M-745 |
| **APPLICANT INFO** | DAVID PREMI, 25 MAIN ST. W, SUITE 1800, HAMILTON, ON L8P 1H1 905.522.0220 |
| **OWNER INFO** | CITY OF MISSISSAUGA, ADRIANA TANTALO, 300 CITY CENTRE DRIVE 905.615.3200 X 3395 |

| NO. | ISSUES/REVISIONS | DATE |
|---|---|---|
| 10 | TENDER | 05/06/24 |
| 9 | SPA RESUBMISSION | 03/12/24 |
| 8 | BP - RESUBMISSION | 02/23/24 |
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| 5 | 90% CD SUBMISSION | 1/22/24 |
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| 3 | MINOR VARIANCE APPLICATION | 09/08/23 |
| 2 | PAM 1 RE-SUBMISSION | 09/07/23 |
| 1 | PRELIMINARY ZONING REVIEW RE-SUBMISSION | 08/02/23 |
| 0 | SPA PRE-CONSULTATION | 03/28/23 |

DRAWING TITLE:

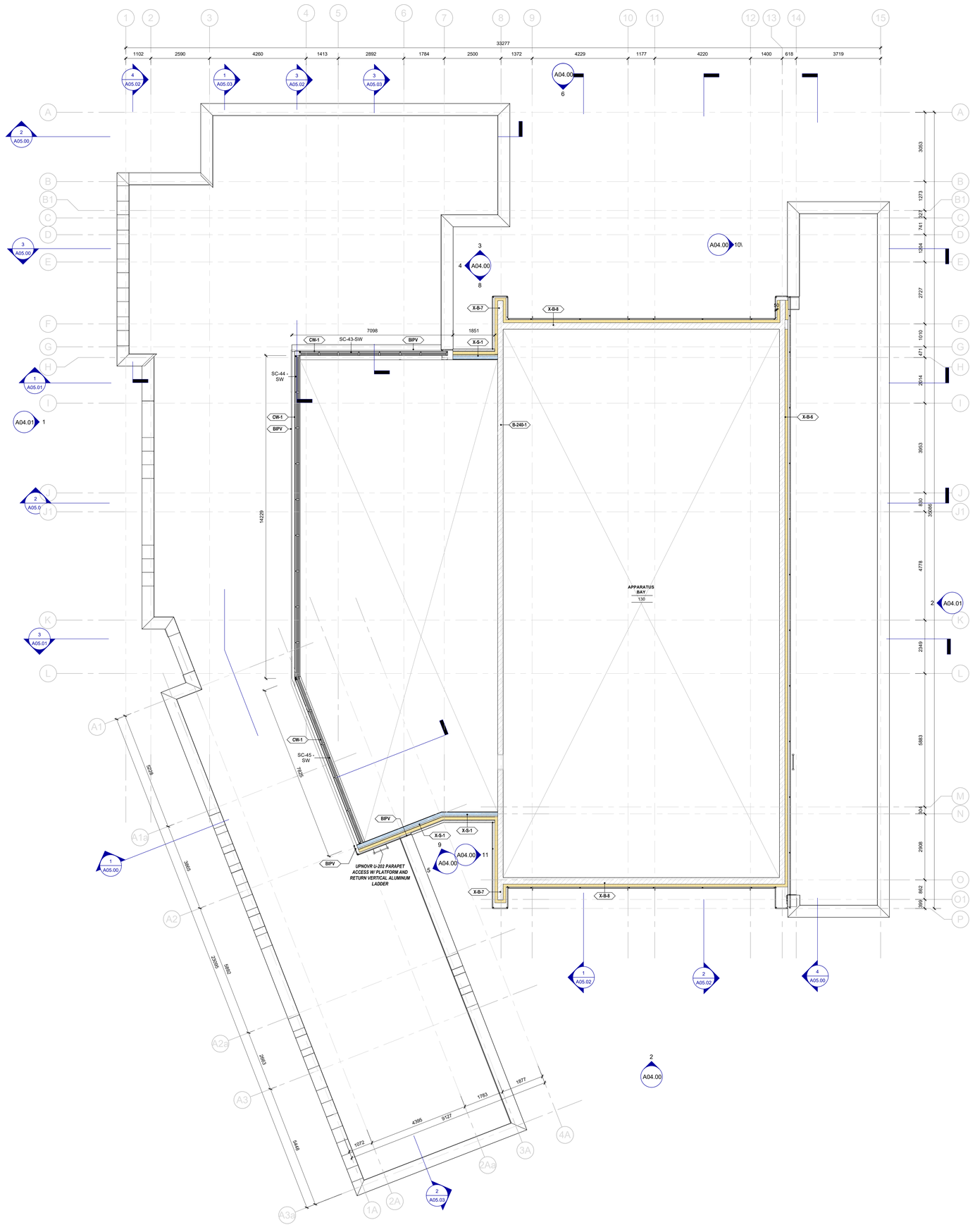
**FLOOR PLAN - INTERIOR PARTITION LAYOUT**

| | |
|---|---|
| ISSUE DATE: | 05/06/24 |
| DRAWN BY: SRL/AF | CHECKED BY: SRL |
| PROJECT NO.: 12301 | SCALE: As indicated |

DRAWING NO.: **A03.05**

REVISION: **10**

PLOT DATE: 2024-05-06 4:06:23 AM

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| **LEGAL DESCRIPTION** | PART OF BLOCK 124 REGISTERED PLAN 43M-745 |
| **APPLICANT INFO** | DAVID PREMI, 25 MAIN ST. W, SUITE 1800, HAMILTON, ON L8P 1H1 905.522.0220 |
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| NO. | ISSUES/REVISIONS | DATE |
|---|---|---|
| 0 | TENDER | 05/06/24 |

DRAWING TITLE:

**CLERESTORY PLAN**

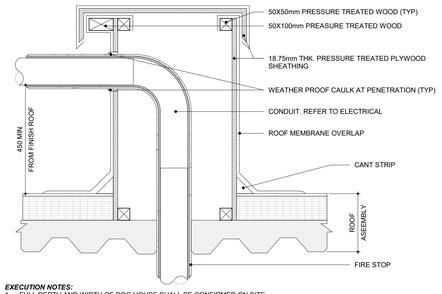
ISSUE DATE: 05/06/24

DRAWN BY: AR CHECKED BY: SL

PROJECT NO.: 12301 SCALE: 1 : 75

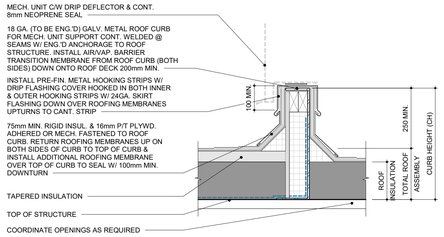
DRAWING NO.: **A03.06** REVISION: **0**

PLOT DATE: 2024-05-05 4:05:26 PM



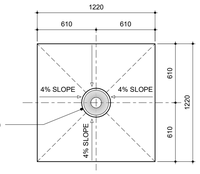

***EXECUTION NOTES:***
1. FULL DEPTH AND WIDTH OF DOG HOUSE SHALL BE CONFIRMED ON SITE

## 2 DOG HOUSE DETAIL
1 : 10



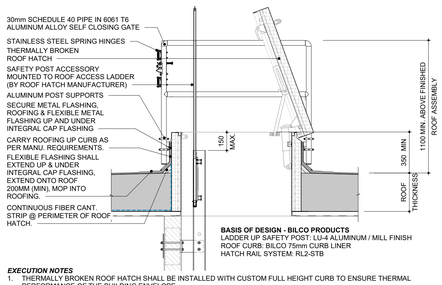

***EXECUTION REQUIREMENTS***
1. ROOF MOUNTED EQUIPMENT AND FITTINGS THAT REQUIRE A ROOF CURB SHALL BE SUPPORTED BY A CURB OF SUFFICIENT HEIGHT SO THAT THE TOP OF CURB IS AT MINIMUM 250mm ABOVE THE ADJACENT ROOF SURFACE.
2. ROOF CURB HEIGHT (CH) **SHALL BE** NOTED ON SHOP DRAWING SUBMITTALS. ROOF CURB HEIGHT SHALL BE THE THICKNESS OF THE ROOF ASSEMBLY + 250mm.
3. ALL CURB LOCATIONS SHALL BE COORDINATED WITH STRUCTURAL STEEL SUBMITTALS.
4. CONTRACTOR SHALL COORDINATE WITH SUPPLIERS / MANUFACTURERS ACCORDINGLY.

## 3 ROOF CURB DETAIL
1 : 10




***EXECUTION REQUIREMENTS***
1. UNLESS NOTED OTHERWISE, ALL ROOF DRAINS SHALL BE SUMPED IN ACCORDANCE WITH APPLICABLE CRCA DETAIL
2. MIN SLOPE OF SUMP FROM SUMP EDGE TO DRAIN - 4%
3. ROOF DRAIN TO BE INSTALLED IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATION

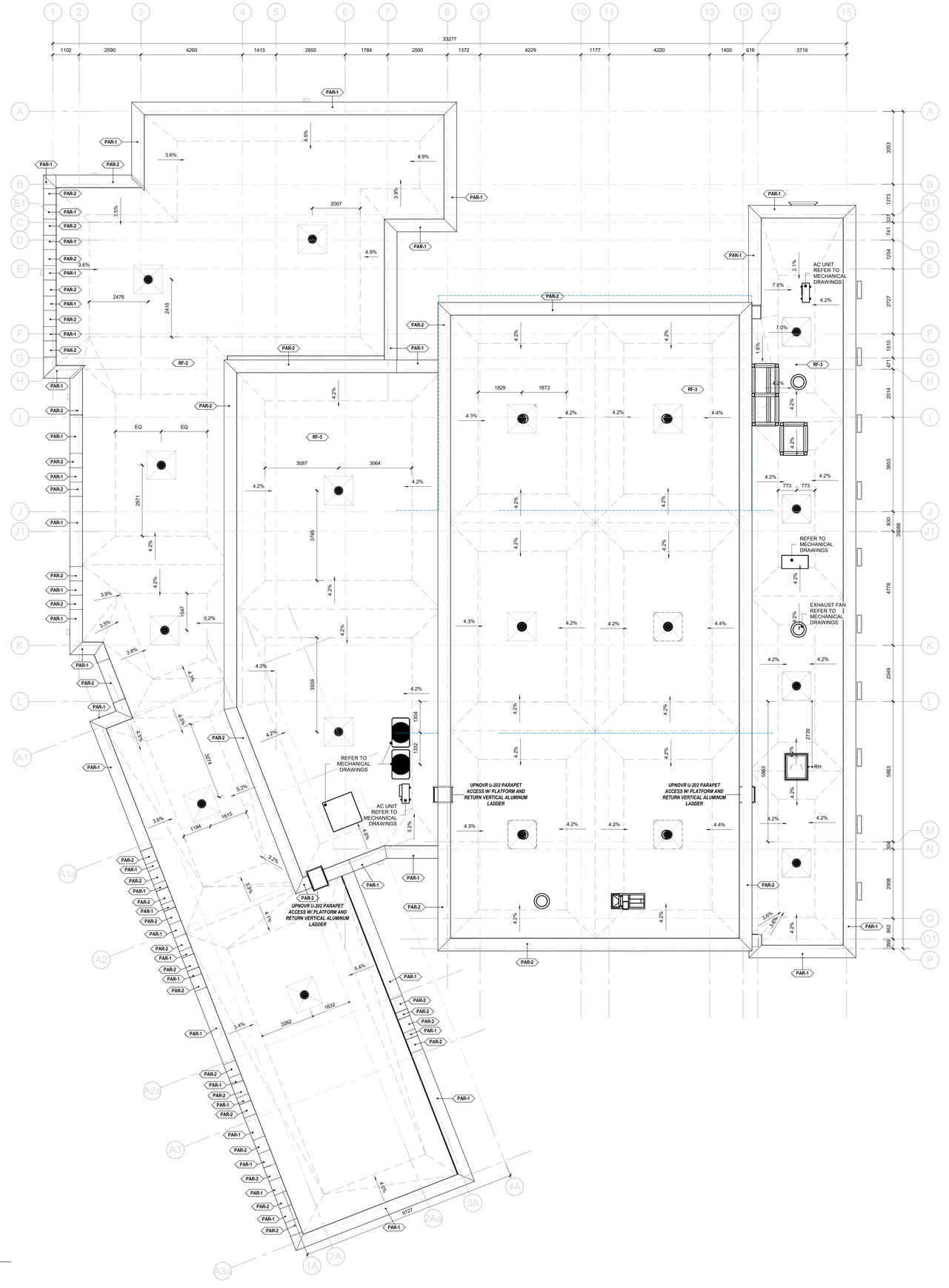
## 4 ROOF DRAIN SUMP
1 : 25




**BASIS OF DESIGN - BILCO PRODUCTS**
LADDER UP SAFETY POST: LU-4 ALUMINUM / MILL FINISH
ROOF CURB: BILCO 75mm CURB LINER
HATCH RAIL SYSTEM: RL2-STB

***EXECUTION NOTES***
1. THERMALLY BROKEN ROOF HATCH SHALL BE INSTALLED WITH CUSTOM FULL HEIGHT CURB TO ENSURE THERMAL PERFORMANCE OF THE BUILDING ENVELOPE.
2. TOP OF ROOF HATCH SHALL BE AT MINIMUM 350mm ABOVE THE ADJACENT FINISHED ROOF SURFACE.
3. TOP OF ROOF HATCH HEIGHT **MUST** BE NOTED ON SUBMITTALS.

## 5 ROOF HATCH DETAIL
1 : 20




## 1 ROOF
1 : 75

## GENERAL NOTES - ROOF PLAN

1. ***GENERAL REQUIREMENTS***
   1. ROOF PLAN DOES NOT SHOW ALL PENETRATIONS THROUGH ROOF.
   2. CONTRACTOR SHALL REVIEW ALL CONTRACT DRAWINGS AND SPECIFICATIONS TO DETERMINE FULL SCOPE OF WORK.
   3. MAKE PROVISIONS FOR ROOF PENETRATIONS WHERE INDICATED AND REQUIRED UNDER THE SCOPE OF THIS CONTRACT.
2. ***INSULATION***
   1. PROVIDE TAPERED INSULATION AT PERIMETER OF ALL ROOFS, SKYLIGHTS AND AS INDICATED. SLOPE SHALL BE NO LESS THAN 2%.
   2. UNLESS NOTED OTHERWISE, SUMP ALL ROOF DRAINS IN ACCORDANCE WITH APPLICABLE CRCA DETAIL. AS INDICATED OR AS REQUIRED, PROVIDE TAPERED CRICKETS OR SIMILAR TYPE MEASURES TO ENSURE THAT ROOF WATER FLOWS TO DRAINS.
3. ***PENETRATIONS***
   1. ALL ROOF PENETRATIONS SHALL BE SEALED USING TALL CONE FLASHING OR PITCH POCKETS AS REQUIRED. CONES SHALL BE SEAMLESS AND INCLUDE A STORM COLLAR.
4. ***EQUIPMENT***
   1. UPSTANDS ON ROOF FOR MECHANICAL UNITS, PARAPETS, SKYLIGHTS TO COME COMPLETE WITH CANT STRIPS.
   2. WITHOUT EXCEPTION, ROOF MOUNTED EQUIPMENT AND FITTINGS THAT REQUIRE A ROOF CURB SHALL BE SUPPORTED BY A CURB OF SUFFICIENT HEIGHT SO THAT THE TOP OF CURB IS AT LEAST 250mm ABOVE THE ADJACENT ROOF SURFACE. CONTRACTORTO COORDINATE WITH SUPPLIERS / MANUFACTURERS ACCORDINGLY.
5. ***MEMBRANES***
   1. CONTINUOUS VAPOUR RETARDER MEMBRANE COMPONENT OF ROOF ASSEMBLIES TO BE WRAPPED UP AT ALL PARAPETS, CURBS, EXTERIOR WALL ASSEMBLIES BY A MIN. 200mm OR AS DETAILED ON DRAWINGS. TIE INTO VAPOUR BARRIER & AVB MEMBRANES ON ALL VERTICAL SURFACES. PROVIDE 'PEEL & STICK' TYPE TRANSITION MEMBRANES IN ORDER TO ENSURE CONTINUITY OF AIR BARRIERS/BUILDING ENVELOPE.
6. ***ROOF ANCHORS***
   1. REFER TO SPECIFICATIONS FOR ROOF ANCHORS AND RELATED REQUIREMENTS.
   2. FULLY COORINDATE ROOF ANCHOR LOCATIONS WITH STRUCTURAL DRAWINGS & ROOF ANCHOR SHOP DRAWINGS TO ENSURE PROPER PLACEMENT OF ALL ROOF ANCHORS.
   3. LAYOUT SHOWN IS PERLIMINARY ONLY. FINAL LAYOUT TO BE CONFIRMED WITH ROOF ANCHOR SUPPLIER.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MISSISSAUGA

**CITY OF MISSISSAUGA FIRE STATION 123**

3050 THE COLLEGEWAY MISSISSAUGA, ONTARIO CANADA

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| **SITE PLAN APPLICATION #** | SP 24-3 |
| **DEVELOPMENT TYPE** | EMERGENCY SERVICES |
| **LEGAL DESCRIPTION** | PART OF BLOCK 124 REGISTERED PLAN 43M-745 |
| **APPLICANT INFO** | DAVID PREMI, 25 MAIN ST. W, SUITE 1800, HAMILTON, ON L8P 1H1<br>905.522.0220 |
| **OWNER INFO** | CITY OF MISSISSAUGA, ADRIANA TANTALO, 300 CITY CENTRE DRIVE<br>905.615.3200 X 3395 |

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| 5 | 90% CD SUBMISSION | 1/22/24 |
| 4 | FORMAL SPA | 12/05/23 |
| 3 | MINOR VARIANCE APPLICATION | 09/08/23 |
| 2 | PAM 1 RE-SUBMISSION | 09/07/23 |
| 1 | PRELIMINARY ZONING REVIEW RE-SUBMISSION | 08/02/23 |
| 0 | SPA PRE-CONSULTATION | 03/28/23 |

DRAWING TITLE:

**ROOF PLAN**

| | |
|---|---|
| ISSUE DATE: | 05/06/24 |
| DRAWN BY: SRL/AF | CHECKED BY: SRL |
| PROJECT NO.: 12301 | SCALE: As indicated |
| DRAWING NO.: | REVISION: |

**A03.07** | **10**

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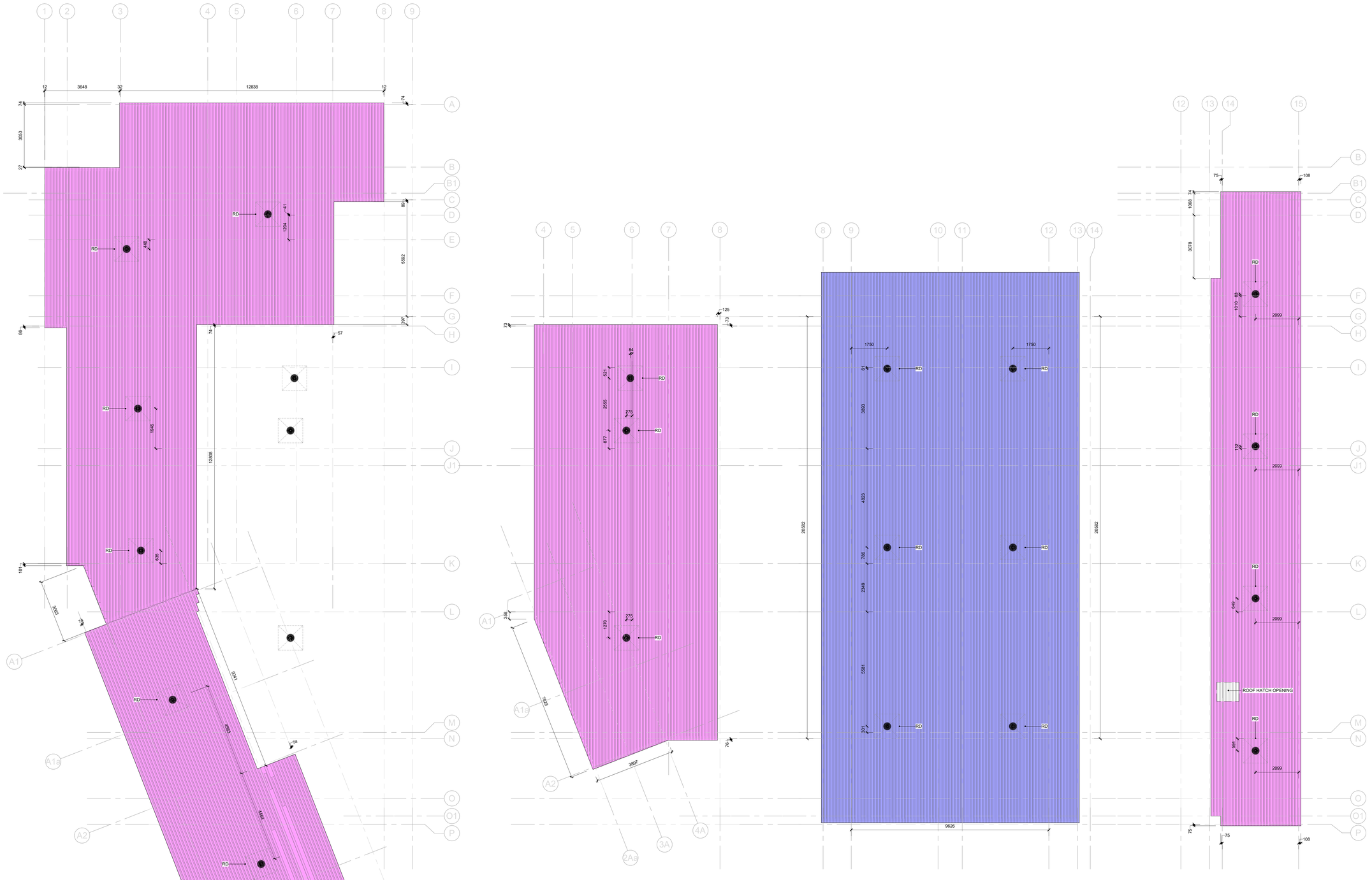


**4** LAYOUT PLAN - EDGE OF DECK
1 : 75

**3** LAYOUT PLAN - EDGE OF DECK
1 : 75

**2** LAYOUT PLAN - EDGE OF DECK
1 : 75

**1** LAYOUT PLAN - EDGE OF DECK
1 : 75

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MISSISSAUGA

## CITY OF MISSISSAUGA FIRE STATION 123

3050 THE COLLEGEWAY MISSISSAUGA, ONTARIO CANADA

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| **SITE PLAN APPLICATION #** | SP 24-3 |
| **DEVELOPMENT TYPE** | EMERGENCY SERVICES |
| **LEGAL DESCRIPTION** | PART OF BLOCK 124 REGISTERED PLAN 43M-745 |
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| NO. | ISSUES/REVISIONS | DATE |
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| 1 | TENDER | 05/06/24 |
| 0 | BP - RESUBMISSION | 02/23/24 |

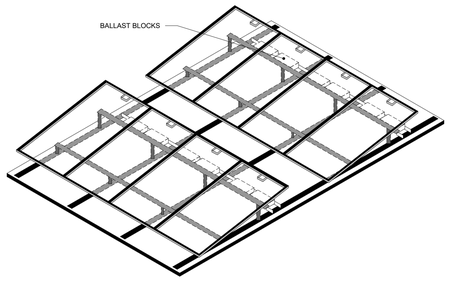
DRAWING TITLE:

**LAYOUT PLAN - EDGE OF DECK**

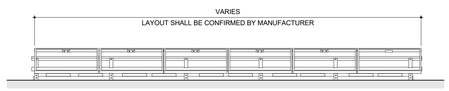
| | |
|---|---|
| ISSUE DATE: | 05/06/24 |
| DRAWN BY: AA | CHECKED BY: SL |
| PROJECT NO.: 12301 | SCALE: 1 : 75 |
| DRAWING NO.: | REVISION: |

**A03.09** **1**

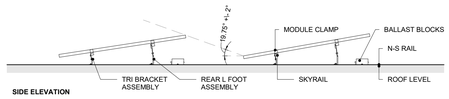
PLOT DATE: 2024-05-24 4:04:47 PM




**3D VIEW**




**FRONT ELEVATION**



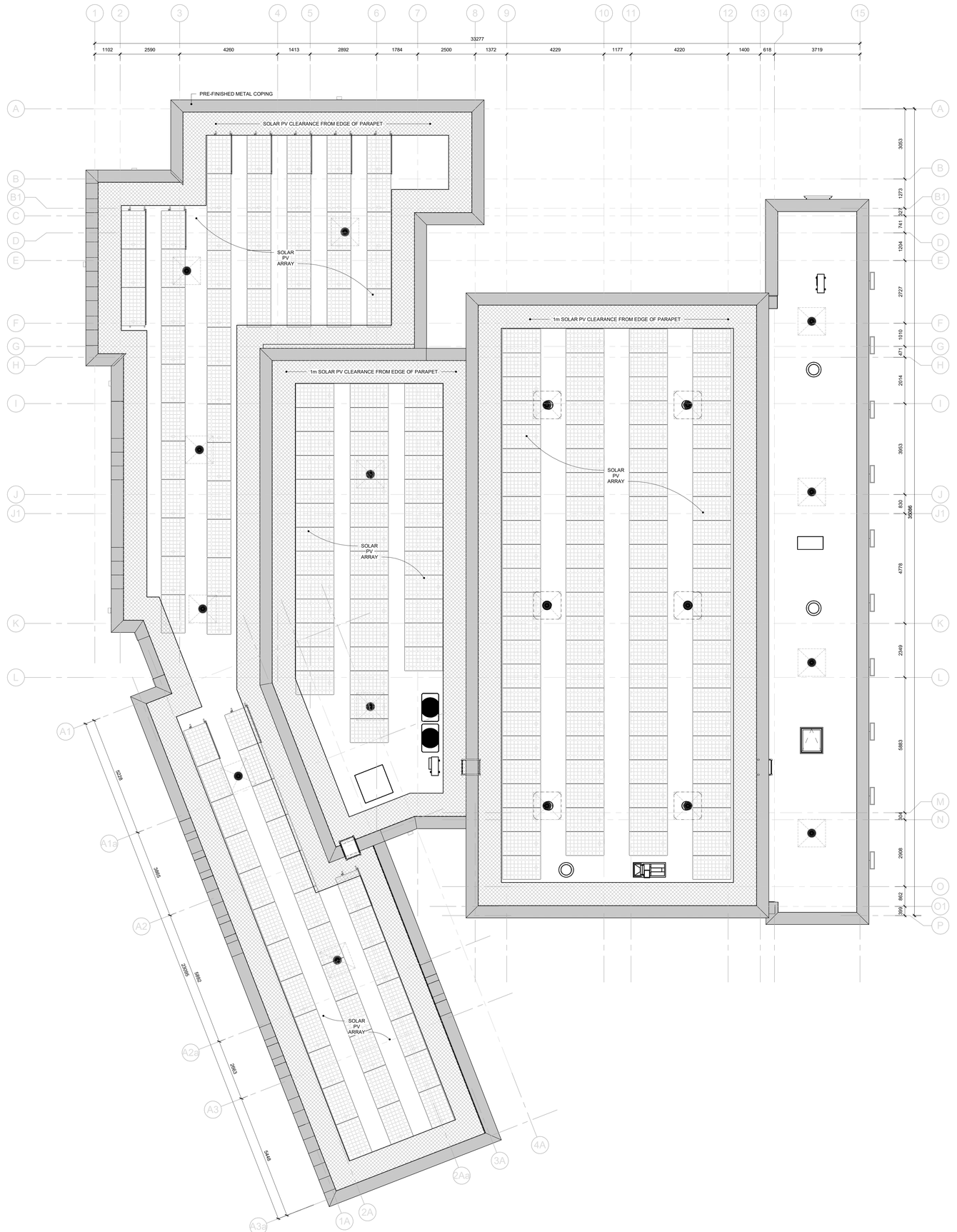

**SIDE ELEVATION**

***EXECUTION NOTES:***

1. PERLIMINARY RACKING LAYOUT SHOWN FOR ILLUSTRATION AND COORDINATION PURPOSES ONLY. SUBJECT TO CHANGE. EXACT LOCATION AND SPACING OF PHOTOVOLTAIC MODULES TO BE ESTABLISHED ACCORDING TO CONTRACTOR ROOF SURVEY AND FINAL MEASUREMENTS ON SITE.
2. FINAL STAMPED ENGINEERED CONFIGURATION TO BE DETERMINED BY CONTRACTOR AND RACKING MANUFACTURER.
3. PV MODULES SHOWN AS MINIMUM PV ARRAY SIZE.
4. ENSURE WIRING IS KEPT AWAY FROM SHARP EDGES THAT MAY HAVE RESULTED FROM RAIL CUTTING ETC. CONDUIT BRACKETS CAN BE USED FOR WIRE MANAGMENT, ATTACHED TO THE REAR SKYRAIL
5. LEAVE 25MM GAP BETWEEN RAIL ENDS FOR THERMAL EXPANSION
6. INSTALL ROOF PROTECTION PADS BETWEEN BASE RAIL AND ROOF AT ALL WEIGHT BEARING, BASE RAIL SPICE AND BASE RAIL END-CUT LOCATIONS. WHERE PADS ARE NOT FULLY PINNED BY RAIL ABOVE, USE 2 X 100MM STRIPS OF BUTYL TAPE.
7. LAY BALLAST BLOCKS BETWEEN BALLAST SUPPORT ANGLES.
8. SYSTEM GROUNDING MUST BE IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE, ANSI/NFPA 70.

## 3 SOLAR PANEL RACKING SYSTEM

1 : 25




**GENERAL NOTES - BIPV & PV SYSTEM**

1. ***GENERAL REQUIREMENTS***
   1. THIS DRAWING HAS BEEN PREPARED SOLELY FOR THE SOLAR PV ELECTRICAL WORK THAT WILL TAKE PLACE AS PART OF THIS PROJECT OF WHICH IS SUBJECT TO THE REQUIREMENTS OF THE ONTARIO ELECTRICAL SAFETY CODE. IT DOES NOT PROVIDE ANY INFORMATION REGARDING STRUCTURAL ASPECTS OF THE DESIGN, NOR SHOULD IT BE USED TO DEMONSTRATE COMPLIANCE WITH THE ONTARIO BUILDING CODE.
   2. ALL LOCATIONS, DIMENSIONS, AND SITE CONDITIONS INCLUDING ROOFTOP OBSTRUCTIONS AND SHADING PROFILES ARE TO BE FIELD VERIFIED BY CONTRACTOR.
   3. BIPV & PV SYSTEMS SHALL BE INSTALED BY A QUALIFIED INSTALLER.
   4. CONTRACTOR SHALL REVIEW ALL CONTRACT DRAWINGS AND SPECIFICATIONS TO DETERMINE FULL SCOPE OF WORK.
   5. ALL WORK RELATED TO BIPV & PV SYSTEM SHALL BE COORDIANTED WITH ELECTRICAL DRAWINGS.
   6. BIPV & PV SYSTEM SHALL BE IN COMPLIANCE WITH MINIMUM REQUIREMENTS LISTED FOR SOLAR PANELS, INVERTERS, AND ENERGY PRODUCTION AS OUTLINES IN THE OESC, REA, AND OTHER APPLICABLE LOCAL REGULATIONS.
2. ***INSTALLATION***
   1. INSTALLATION OF BIPV & PV SYSTEM SHALL BE COORDINATED WITH STRUCTURAL, ROOFING, ELECTRICAL AND OTHER DISCIPLINES.
   2. LAYOUT SHOWN IS DIAGRAMAIC AND SHALL BE VERFIED BY THE SOLAR PV MANUFACTUER. REFER TO ELECTRICAL DRAWINGS FOR SIZE OF SYSTEM. LAYOUT SHALL BE OPTIMIZED ENSURING CLEAR CIRCULATION SPACE IS PROVIDED. REVISED LAYOUT OF EQUIPMENT OR PANELS MUST BE APPROVED BY THE PROJECTS ELECTRICAL ENGINEER AND/OR ARCHITECT AND BE COORDINATED WITH OTHER TRADES.
   3. ALL CONSTRUCTION MUST BE CARRIED OUT IN AN APPROVED MANNER THAT DOES NOT VOID ANY EXISTING MANUFACTURER WARRANTY ON THE PROJECT SITE, SPECIFICALLY BUT NOT LIMITED TO THE BUILDING ROOF AND ANY/ALL WALL PENETRATIONS
   4. RACKING SYSTEM SHALL BE FREE
   5. UNLESS SPECIFIED, INSTALLERS SHALL IDENTIFY THE APPROPRIATE ATTACHMENT METHOD GIVEN THE REQUIREMENTS OF THE SYSTEM TO BE INSTALLED AND THE DESIGN CAPACITY OF THE ROOF STRUCTURE.
3. ***PENETRATIONS***
   1. PV CONDUIT TERMINATED ABOVE THE ROOF MUST BE SEALED AND FLASHED AROUND THE ROOF PENETRATION USING A RUBBER OR CORROSION-RESISTANT METAL FLENGE/BOOT WITH A GASKET AROUND THE CONDUIT, AND CAPPED (OR TERMINATE IN A SEALED JUNCTION BOX) TO MAINTAIN AIR AND WATER TIGHTNESS.
   2. ROOFING MEMBRANE PROTECTION WILL BE REQUIRED TO COMPLY WITH ROOF MANUFACTURERS WARRANTY REQUIREMENTS INCLUDING ANY SLIP SHEETS OR SACRIFICIAL LAYERS
4. ***RACKING SYSTEM***
   1. RACKING SYSTEM SHALL BE NON-PENETRATING
   2. RACKING SYSTEM SHALL BE MAUFACTUERED FROM ALUMINUM WITH STAINLESS STEEL FASTENERS

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MISSISSAUGA

**CITY OF MISSISSAUGA FIRE STATION 123**

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|---|---|
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| **DEVELOPMENT TYPE** | EMERGENCY SERVICES |
| **LEGAL DESCRIPTION** | PART OF BLOCK 124 REGISTERED PLAN 43M-745 |
| **APPLICANT INFO** | DAVID PREMI, 25 MAIN ST. W, SUITE 1800, HAMILTON, ON L8P 1H1<br>905.522.0220 |
| **OWNER INFO** | CITY OF MISSISSAUGA, ADRIANA TANTALO, 300 CITY CENTRE DRIVE<br>905.615.3200 X 3395 |

| NO. | ISSUES/REVISIONS | DATE |
|---|---|---|
| 10 | TENDER | 05/06/24 |
| 9 | SPA RESUBMISSION | 03/12/24 |
| 8 | BP - RESUBMISSION | 02/23/24 |
| 7 | PERMIT | 01/22/24 |
| 6 | CLASS A ESTIMATE | 01/22/24 |
| 5 | 90% CD SUBMISSION | 1/22/24 |
| 4 | FORMAL SPA | 12/05/23 |
| 3 | MINOR VARIANCE APPLICATION | 09/08/23 |
| 2 | PAM 1 RE-SUBMISSION | 09/07/23 |
| 1 | PRELIMINARY ZONING REVIEW RE-SUBMISSION | 08/02/23 |
| 0 | SPA PRE-CONSULTATION | 03/28/23 |

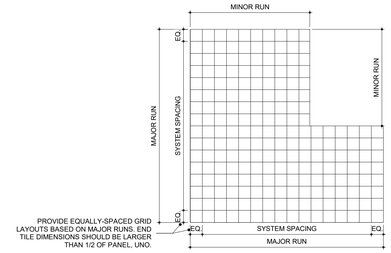
DRAWING TITLE:

**PV PANEL LAYOUT**

| | |
|---|---|
| ISSUE DATE: | 05/06/24 |
| DRAWN BY: SRL/AF | CHECKED BY: SRL |
| PROJECT NO.: 12301 | SCALE: As indicated |
| DRAWING NO.: | REVISION: |

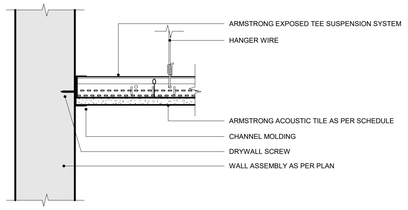
**A03.10** | **10**

PLOT DATE: 2024-06-05 4:01:54 PM

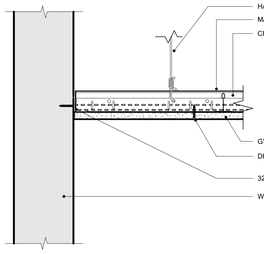



**NOTES:**
1. SCHEMATIC CEILING GRID ILLUSTRATED FOR CONTEXT. REFER TO REFLECTED CEILING PLANS.
2. WHERE DIMENSIONS ARE ILLUSTRATED, OR NOTES RELATE TO LAYOUT, THESE HAVE PRECEDENCE OVER THESE TYP. LAYOUT GUIDELINES.

## 2 GYPSUM BOARD BULKHEAD TO ADJACENT CEILINGS
1 : 10

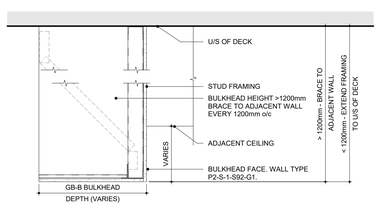



## 3 TYPICAL ACT TO PARTITION WALL
1 : 5




**CEILING GRID AND FRAMING SYSTEM BASIS OF DESIGN**
ARMSTRONG MAIN BEAM - ARMSTRONG HD8906
CROSS TEE - ARMSTRONG XL8945

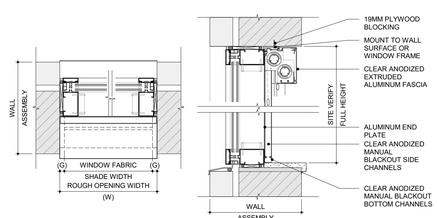
## 4 GYPSUM BOARD CEILING TO PARTITION WALL
1 : 5




TYPE 'A' - GYPSUM BOARD BULKHEAD (**GB-B**) TO ADJACENT CEILINGS

***EXECUTION REQUIREMENTS***
WHEN SETTING BULKHEAD HEIGHTS.
PRIOR TO FRAMING, CONFIRM HEIGHT REQUIREMENT OF ITEMS / CONSTRUCTION BELOW BULKHEAD AND MEASURE FROM FINISHED FLOOR TO ENSURE AQEDUATE CLEARANCE. NOTIFY CONSULTANT OF ANY DISCREPANCIES

## 5 GYPSUM BOARD BULKHEAD TO ADJACENT CEILINGS
1 : 10

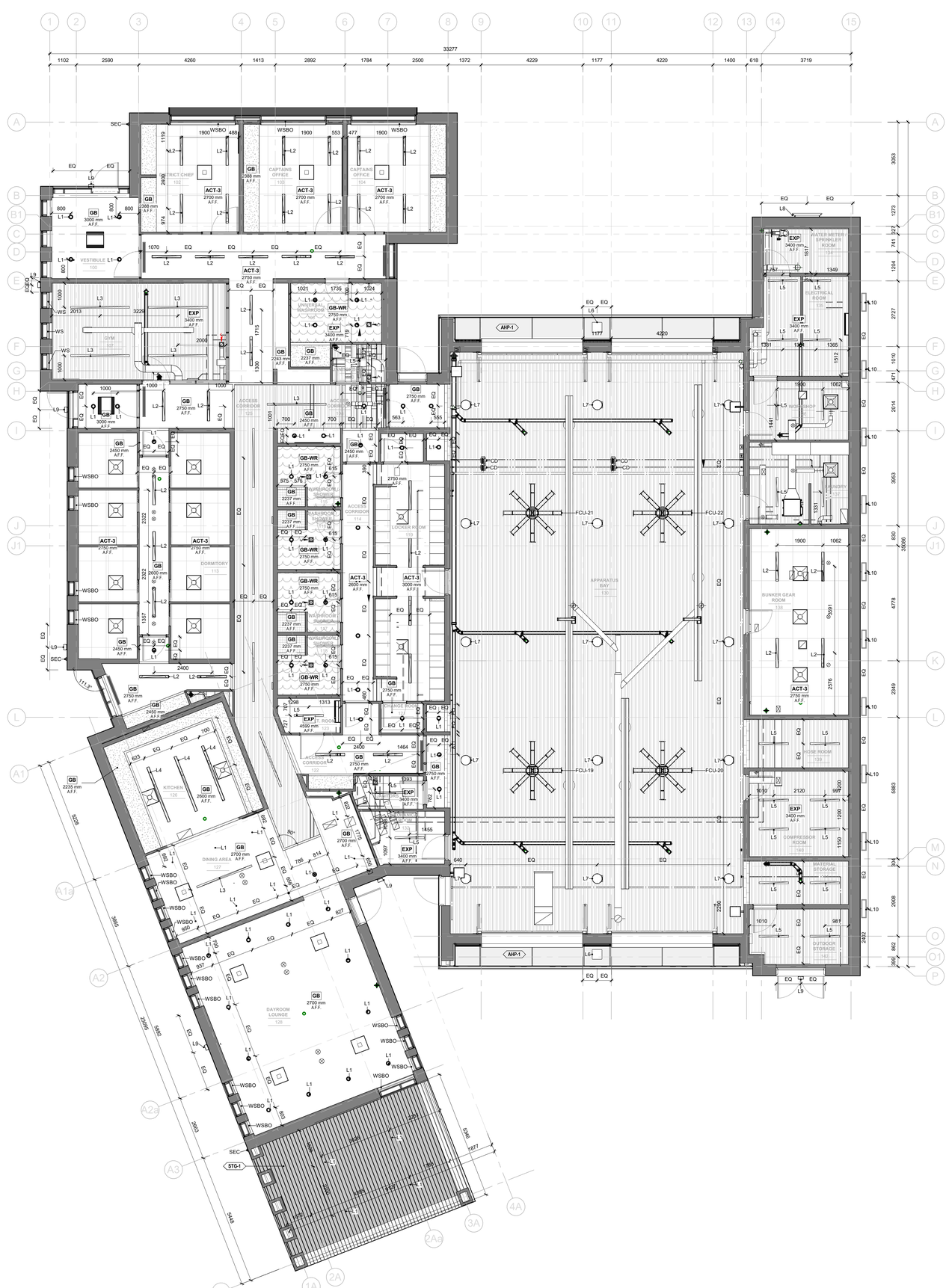



**PLAN VIEW**

**SECTION VIEW**
**WINDOW SHADE C/W BLACKOUT BLIND**
**WSBO**

***EXECUTION NOTES***
1. OVERALL WIDTH (W) OF SHADE CASSETTE SHALL BE MEASURED FROM FINISHED FACE OF WALL ASSEMBLY. MINIMIZE LIGHT GAP (G) ON EITHER END.
2. SUBMIT SHOP DRAWINGS AND FLOOR PLAN LAYOUT FOR REVIEW PRIOR TO FABRICATION.
3. REFER TO SPECIFICATIONS FOR WINDOW SHADE FABRIC AND BLACKOUT FABRIC. PROVIDE SAMPLES FOR REVIEW.
4. ILLUSTRATION SHOWN IS FOR WINDOW SHADES C/W BLACK OUT BLIND. GC SHALL PROVIDE BOTH SINGLE CASSETEE OPTIONS NOTED AS ***WS* (WINDOW SHADE)** AND DUAL CASSETTES NOTED AS ***WSBO***.

## 6 WINDOW SHADES
1 : 10




## GENERAL NOTES - REFLECTED CEILING PLAN

1. ***COORDINATION***
   1. REFER TO MECHANICAL AND ELECTRICAL DRAWINGS FOR ALL CEILING MOUNTED FIXTURES AND MECHANICAL AND ELECTRICAL EQUIPMENT. POSITIONING OF ALL MECHANICAL AND ELECTRICAL FIXTURES AND EQUIPMENT SHALL BE GOVERNED BY ARCHITECTURAL DRAWINGS SUBJECT TO FULL COMPLIANCE WITH ONTARIO BUILDING CODE REQUIREMENTS. REFLECTED CEILING PLANS MAY NOT SHOW ALL MECHANICAL AND ELECTRICAL FIXTURES OR EQUIPMENT. ARCHITECTURAL DRAWINGS SHALL BE READ IN CONJUNCTION WITH MECHANICAL AND ELECTRICAL DRAWINGS.
   2. GENERAL CONTRACTOR SHALL REPORT ANY DISCREPANCIES BETWEEN ENGINEERING AND ARCHITECTURAL DRAWINGS PRIOR TO COMMENCEMENT OF THE WORK.
   3. PRIOR TO COMMENCEMENT OF THE WORK, THE CONTRACTOR SHALL CONDUCT AN INTERFERENCE STUDY. THE OBJECTIVE OF THE STUDY IS TO IDENTIFY AND MITIGATE ISSUES WITH THE INSTALLATION OF MECHANICAL & ELECTRICAL SYSTEMS, FIXTURES AND EQUIPMENT.
      THE STUDY SHALL CONSIST OF THE FOLLOWING:
      1. MARK LOCATIONS AND ROUTES ON SITE OF ALL EQUIPMENT, PIPING, VENTS, DUCTS, CONDENSATES ETC. CONTRACTOR SHALL ESTABLISH MINIMUM CLEARANCES AND REPORT ANY INTERFERENCES WITH LIGHT FIXTURES, CONDUIT OR WIRE RUNS, STRUCTURE ETC.
      2. MARK LOCATIONS ON SITE OF ALL LIGHTING. CONTRACTOR SHALL ESTABLISH MINIMUM CLEARANCES AND REPORT ANY INTERFERENCES WITH DUCTS, PIPES, STRUCTURE ETC.
      3. LOCATE ALL FIXTURES IN ACCORDANCE WITH ARCHITECTURAL DRAWINGS.
      4. IDENTIFY ALL SERVICES INSTALLED WITHIN OR ABOVE CEILING SYSTEMS. COORDINATE ALL PENETRATIONS AND ACCESS PANELS WITH THE CEILING SUPPORT SYSTEMS.
      5. REPORT ANY DISCREPANCIES OR INTERFERENCES TO CONSULTANT IMMEDIATELY. OBTAIN INSTRUCTION FROM CONSULTANT BEFORE COMMENCING INSTALLATION.
      6. PROVIDE CONFIRMATION THAT INTERFERENCE STUDY HAS BEEN CONDUCTED AND THAT INTERFERENCES HAVE BEEN IDENTIFIED AND MITIGATED
2. ***FIXTURE INSTALLATION / LOCATION REQUIREMENTS***
   1. REFER TO ELECTRICAL DRAWINGS /SPECIFICATIONS FOR ALL LIGHTING FIXTURE TYPES & QUANTITY LAYOUTS
   2. UNLESS OTHERWISE NOTED, LOCATE LIGHT FIXTURES ON CENTER OF ACOUSTIC CEILING TILES.
   3. WHERE INDICATED, DIMENSIONS ARE TAKEN FROM CENTER OF LIGHT FIXTURES.
   4. REFER TO TOP OF WALL DEFLECTION TRACK DETAILS FOR TERMINATION OF WALLS AT FLOORS AND ROOFS.
   5. WHERE MECHANICAL AND ELECTRICAL FIXTURES PENETRATE A PARTITION, PATCH AND PROVIDE AN AIR-TIGHT SEAL AROUND PENETRATION. AT FIRE SEPARATIONS USE FIRESTOP SYSTEM MATERIAL AT PENETRATIONS TO MATCH THE FIRE RATING OF THE PARTITION, WALL, OR FLOOR ASSEMBLY
   6. LOCATE SPRINKLERS, DETECTORS, SPEAKERS, ETC. ON CENTER LINE OR MID-POINT OF LAY-IN CEILING PANELS UNLESS OTHERWISE NOTED.
   7. CONTRACTOR SHALL PROVIDE ALL NECESSARY SUPPORTS FOR ALL WINDOW TREATMENTS, ROLLER SHADES, ETC. AS RECOMMENDED BY MANUFACTURERS
   8. CONTRACTOR SHALL PROVIDE CONCEALED BRACING TO LATERALLY STABILIZE SUSPENDED CEILINGS WHERE CEILINGS ARE NOT FASTENED TO WALLS.
   9. REFER TO ELECTRICAL DRAWINGS AND SPECIFICATIONS FOR FIRE EXIT SIGNS, EMERGENCY LIGHTING AND OTHER LIFE SAFETY DEVICES (i.e. HEAT DETECTORS, SMOKE DETECTORS ETC).
   10. ALL EXPOSED ROUTING OF ELECTRICAL SERVICES ON CEILINGS/LEVELS ABOVE SHALL BE REVIEWED ONSITE WITH CONSULTANT PRIOR TO INSTALLATION.
   11. WHERE REQUIRED, PATCH, PAINT OR REPLACE ANY DAMAGED T-BAR AND REPLACE ANY DAMAGED OR SOILED CEILING TILES NOTED PRIOR TO OCCUPANCY.
   12. CONTROL JOINTS SHALL BE INSTALLED TO DIVIDE GYPSUM CEILINGS & WALLS INTO 20' MAX. LENGTHS & WIDTHS. JOINTS SHALL ALSO BE INSTALLED AT EXPANSION OR CONTRACTION JOINTS IN THE STRUCTURAL FRAMEWORK OVER WHICH GYPSUM BOARD IS REQUIRED.
   13. CONTRACTOR SHALL PROVIDE CUT-OUTS AND OPENINGS FOR ITEMS WHICH PENETRATE THROUGH CEILINGS SYSTEMS (INCLUDING SPECIAL EQUIPMENT HANGERS AND DEVICES, CONDUIT, PIPING, ELECTRICAL REQUIREMENTS, ETC.).
3. ***FIRE SEPERATIONS***
   1. FIRE SEPARATIONS ARE TO THE UNDERSIDE (U/S) OF THE DECK OR STRUCTURE COMPLETE WITH FIRESTOP SYSTEM MATERIAL AND SMOKE SEAL AS REQUIRED. REFER TO FIRE SEPERATION LEGEND.
   2. REFER TO TOP OF WALL DETAILS FOR TERMINATION OF WALLS AT FLOORS AND ROOFS THAT REQUIRE FIRE SEPARATION.
4. ***FINISHING***
   1. REFER TO FINISHES SCHEDULE FOR CEILING FINISHES.
   2. WHERE INDICATED, CEILINGS NOTED AS EXPOSED SHALL BE PAINTED.
   3. ALL EXPOSED CONDUIT, DUCT WORK, PIPING, ETC. SHALL BE PAINTED TO MATCH CEILING UNLESS OTHERWISE NOTED OR REQUIRED BY CODE.
   4. ALL EXPOSED STEEL BEAMS, JOISTS, DECK SHALL BE PAINTED PER CEILING FINISH SCHEDULE UNLESS OTHERWISE NOTED.
5. ***CEILING ACCESS PANELS***
   1. FOR EQUIPMENT THAT REQUIRES ACCESS THROUGH CEILINGS, LOCATE ABOVE ATC CEILINGS WHERE POSSIBLE. WHERE ACCESS IS REQUIRED THROUGH GYPSUM BOARD CEILINGS, CONTRACTOR SHALL PROVIDE ACCESS PANELS AS REQUIRED. CONSULTANT SHALL REVIEW LOCATIONS PRIOR TO CONTRACTOR PROCEEDING WITH INSTALLATION.
   2. IN AREAS WHERE ACCESS CAN NOT BE GAINED FROM ACT CEILINGS, ACCESS PANELS ARE TO BE PROVIDED.
   3. PROVIDE ACCESS PANELS OF APPROPRIATE SIZE, TYPE, AND FIRE RATING FOR ALL CONCEALED ITEMS THAT REQUIRE ADJUSTMENT, MAINTENANCE, MONITORING, ETC.
   4. ACCESS PANELS SHALL BE SIZED ACCORDING TO ACCESS REQUIREMENTS, PREFABRICATED OR ALTERNATIVELY, CONSTRUCTED OF MIN. 12.7MM MDF PANELS, FINISH FLUSH WITH ADJACENT CEILING AND FINISHED TO MATCH ADJACENT CEILING FINISH. PROVIDE 3MM REVEAL AROUND ENTIRE PANEL (TYP.).
   5. COORDINATE LOCATION AND FINISH WITH ARCHITECT.
   6. WHERE POSSIBLE, SERVICES TO BE GANGED TO LIMIT THE NUMBER OF PANELS REQUIRED.
   7. ALL ACCESS PANELS TO BE KEYED WITH THE SAME LOCK.
   8. ACCESS PANELS SHALL BE PREFABRICATED AND SIZED ACCORDING TO ACCESS REQUIREMENTS. FINISH FLUSH WITH ADJACENT CEILING AND COLOR SHALL MATCH ADJACENT CEILING FINISH.

## RCP LEGEND

**LIGHT FIXTURES AND ELECTRICAL DEVICES**

| | | |
|---|---|---|
| | L1 | POT LIGHTS |
| | L2 | RECESSED LED 1220mm |
| | L3 | SUSPENDED LED 2450mm |
| | L4 | RECESSED LED 2440mm |
| | L5 | SUSPENDED LED 1219mm |
| | L6 | SQUARE SURFACE MOUNTED LIGHT FIXTURE |
| | L7 | ROUND HIGH BAY LED |
| | L8 | WALL MOUNT EXTERIOR LED |
| | L9 | WALL MOUNT EXTERIOR LED |
| | L10 | WALL MOUNT EXTERIOR LED |

**MECHANICAL COMPONENTS**

| | |
|---|---|
| | SUPPLY AIR GRILLE |
| | RETURN AIR GRILLE |
| S | SMOKE DETECTOR |
| | AC UNIT |
| | WALL FIN HEATER |
| | CABINET UNIT HEATER |
| | CEILING FAN |

**OTHER**

| | |
|---|---|
| | SECURITY CAMERA |
| | WINDOW SHADE |

**CEILING FINISH**

| | |
|---|---|
| GB | GYPSUM BOARD |
| GB-WR | GYPSUM BOARD - WATER RESISTANT |
| ACT-3 | ACOUSTIC CEILING TILE |
| EXP | EXPOSED CEILING |

DPAI
Design Partners in Architecture and Interiors

DRAWINGS ARE NOT TO BE SCALED.

CONTRACTOR MUST VERIFY ALL DIMENSIONS ON THE JOB AND REPORT ANY DISCREPANCY TO ARCHITECTS BEFORE PROCEEDING WITH WORK.

ALL DRAWINGS AND SPECIFICATIONS ARE THE PROPERTY OF THE ARCHITECT AND MUST BE RETURNED AT THE COMPLETION OF THE WORK.

SEALS

ONTARIO ASSOCIATION OF ARCHITECTS
DAVID PREMI
LICENCE
4316

MISSISSAUGA

**CITY OF MISSISSAUGA FIRE STATION 123**
3050 THE COLLEGEWAY MISSISSAUGA, ONTARIO CANADA

| | |
|---|---|
| **SITE PLAN APPLICATION #** | SP 24-3 |
| **DEVELOPMENT TYPE** | EMERGENCY SERVICES |
| **LEGAL DESCRIPTION** | PART OF BLOCK 124 REGISTERED PLAN 43M-745 |
| **APPLICANT INFO** | DAVID PREMI, 25 MAIN ST. W, SUITE 1800, HAMILTON, ON L8P 1H1 905.522.0220 |
| **OWNER INFO** | CITY OF MISSISSAUGA, ADRIANA TANTALO, 300 CITY CENTRE DRIVE 905.615.3200 X 3395 |

| NO. | ISSUES/REVISIONS | DATE |
|---|---|---|
| 10 | TENDER | 05/06/24 |
| 9 | SPA RESUBMISSION | 03/12/24 |
| 8 | BP - RESUBMISSION | 02/23/24 |
| 7 | PERMIT | 01/22/24 |
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| 5 | 90% CD SUBMISSION | 1/22/24 |
| 4 | FORMAL SPA | 12/05/23 |
| 3 | MINOR VARIANCE APPLICATION | 09/08/23 |
| 2 | PAM 1 RE-SUBMISSION | 09/07/23 |
| 1 | PRELIMINARY ZONING REVIEW RE-SUBMISSION | 08/02/23 |
| 0 | SPA PRE-CONSULTATION | 03/28/23 |

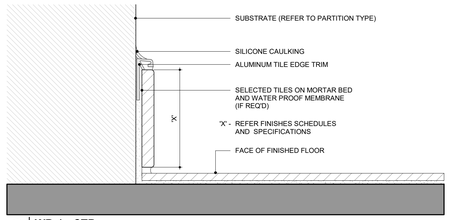
DRAWING TITLE:

**LEVEL 01 - REFLECTED CEILING PLAN**

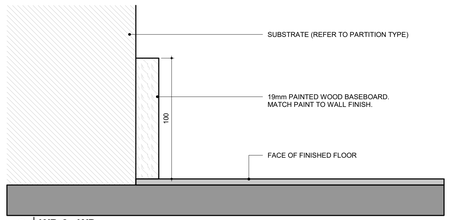
| | |
|---|---|
| ISSUE DATE: | 05/06/24 |
| DRAWN BY: SRL/AF | CHECKED BY: SRL |
| PROJECT NO.: 12301 | SCALE: As indicated |
| DRAWING NO.: | REVISION: |

**A03.11** | **10**

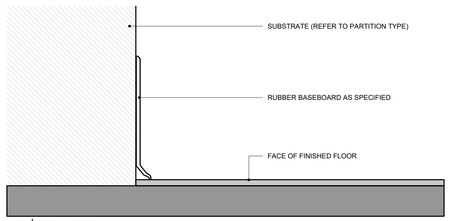
PLOT DATE: 2024-06-05 8:57:17 AM



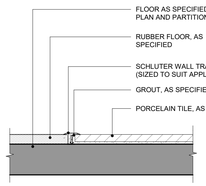

**2** WB-1 - CTB
1 : 2



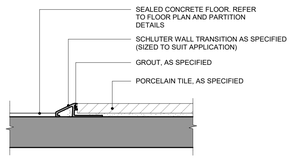

**3** WB-2 - WD
1 : 2



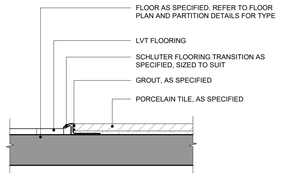

**4** WB-3 - RUB
1 : 2



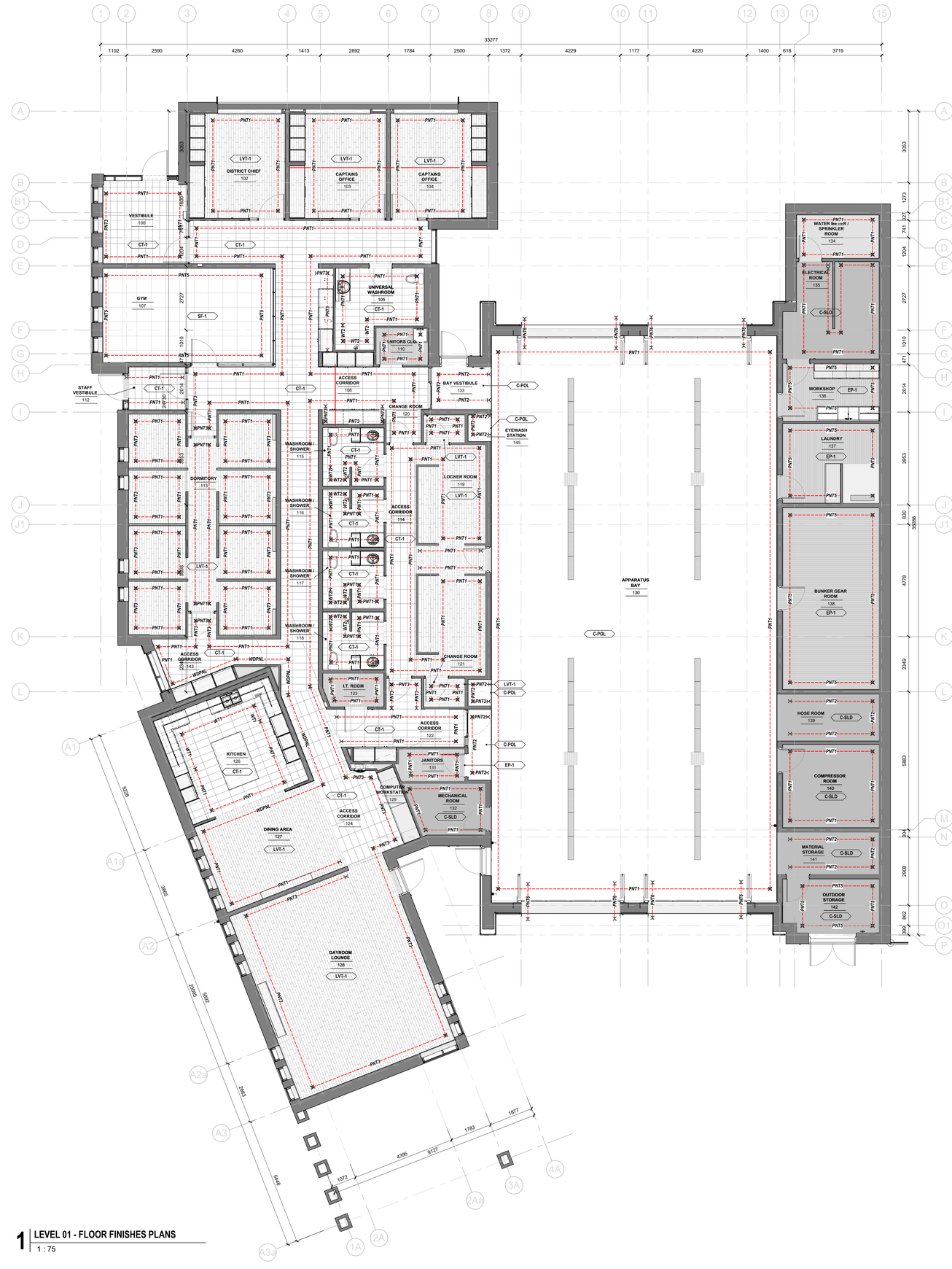

**5** FT-3 - SCHL - RENO-T - RUB-CT
1 : 2




**6** FT-2 - SCHL - RENO-U - CONC-CT
1 : 2




**7** FT-1 - SCHL - RENO-TK - LVT-CT
1 : 2




**1** LEVEL 01 - FLOOR FINISHES PLANS
1 : 75

## GENERAL NOTES - FLOOR FINISHES

***1. GENERAL REQUIREMENTS***

1. ALL INTERIOR FINISHES SHALL COMPLY WITH THE REQUIREMENTS OF THE BUILDING CODE (LATEST REVISION) THE TERRAZZO, TILE & MARBLE ASSOCIATION OF CANADA (TTMAC) AND AUTHORITIES HAVING JURISDICTION.
2. REFER TO ROOM FINISH SCHEDULE FOR FLOOR AND BASE FINISHES.
3. ALL FLOOR FINISHES TO BE INSTALLED IN ACCORDANCE WITH MANUFACTURERS INSTRUCTIONS AND PROJECT SPECIFICATION.
4. FLOOR TILES ARE TO BE INSTALLED IN PATTERNS AS INDICATED.
5. WHERE TILES ARE INDICATED TO BE INSTALLED IN A RUNNING BOND PATTERN, INSTALL IN A 1/3 RUNNING BOND PATTERN (20% OVERLAP) TO REDUCE LIPPAGE AS DEFINED BY TTMAC.
6. MOVEMENT JOINTS SHALL BE IN ACCORDANCE WITH TTMAC DOCUMENT 301MJ- (CURRENT REVISION).
7. UNLESS OTHERWISE NOTED, ALL FLOOR FINISHES TO BE INSTALLED PRIOR TO INSTALLATION OF MILLWORK.
8. NO SUBSTITUTIONS OF FLOOR FINISHES PERMITTED WITHOUT CONSULTANT WRITTEN APPROVAL.
9. CONTRACTOR IS RESPONSIBLE FOR THE PROTECTION OF ALL FLOOR FINISHES FOR THE DURATION OF THE WORK.
10. CONTRACTOR TO PROVIDE PROTECTION OF ALL FINISHED CONCRETE FLOORS USING PREMANUFACTURED CARDBOARD TEMPORARY FLOOR PROTECTION (OR APPROVED EQUIVALENT) FOR THE DURATION OF THE WORK.
11. CONTRACTOR TO PROVIDE PROTECTION OF ALL FINISHED TILED FLOORS USING PREMANUFACTURED CARDBOARD TEMPORARY FLOOR PROTECTION (OR APPROVED EQUIVALENT) FOR THE DURATION OF THE WORK.
12. CHANGES IN FLOOR FINISH AT DOOR OPENINGS SHALL OCCUR UNDERNEATH THE DOOR (IN THE CLOSED POSITION) UNLESS OTHERWISE NOTED. WHERE THERE IS AN OPENING WITH NO DOOR, CHANGES IN FLOOR FINISH SHALL OCCUR AT THE MIDPOINT OF THE OPENING.
13. UNLESS NOTED OTHERWISE, TILE BASES SHALL BE 100MM HIGH MEASURED FROM THE ADJACENT FINISHED FLOOR.
14. WHERE A CHANGE OF FLOORING MATERIAL THICKNESS OCCURS, FEATHER FLOOR AS REQUIRED.

## GENERAL NOTES - FLOOR FINISHES

LVT-1 — **FLOOR ASSEMBLY: LVT-1**
- LUXURY VINYL FLOOR TILE SIENA LVT BURIED SVP6006 6" x 36" X 1/8
- 4" WOOD MDF BASE

CT-1 — **FLOOR ASSEMBLY: CT-1**
- FLOOR TILE ADVANTAGE GREIGE NATURAL ADGRE2448 24" x 48"
- 4" BASE

C-SLD — **FLOOR ASSEMBLY: C-SLD**
- SEALANT APPLIED TO CONCRETE

C-POL — **FLOOR ASSEMBLY: C-POL**
- POLISHED CONCRETE

SF-1 — **FLOOR ASSEMBLY: SF-1**
- RESILIENT SPORTS FLOOR

EP-1 — **FLOOR ASSEMBLY: EP-1**
- EPOXY FLOORING

## GENERAL NOTES - FLOOR FINISHES

**PNT1** — PAINT FINISH — *PNT1* — FIELD PAINT

| | |
|---|---|
| MANUFACTURER | -BENJAMIN MOORE |
| PRODUCT NUMBER | -AF-35 |
| COLOUR NAME | -VAPOR |
| DESCRIPTION | -INTERIOR ACRYLIC PAINT |
| SIZE | -EGGSHELL FINISH |
| INSTALLATION NOTES | -ALL WALLS UNLESS OTHERWISE NOTED |
| LOCATION | -- |
| CONTACT | -- |
| PHONE | -- |
| EMAIL | -- |

**PNT2** — PAINT FINISH — *PNT2* — BAY ACCENT COLOR

| | |
|---|---|
| MANUFACTURER | -BENJAMIN MOORE |
| PRODUCT NUMBER | -AF-290 |
| COLOUR NAME | -CALIENTE |
| DESCRIPTION | -INTERIOR ACRYLIC PAINT |
| SIZE | -EGGSHELL FINISH |
| INSTALLATION NOTES | -BAY VESTIBULE, EYEWASH STATION, MATERIAL STORAGE, HOSE ROOM, AND OTHER WALLS NOTED |
| LOCATION | -- |
| CONTACT | -- |
| PHONE | -- |
| EMAIL | -- |

**PNT3** — PAINT FINISH — *PNT3* — CREW AREA ACCENT COLOUR

| | |
|---|---|
| MANUFACTURER | -BENJAMIN MOORE |
| PRODUCT NUMBER | -AF-460 |
| COLOUR NAME | -JOJOBA |
| DESCRIPTION | -INTERIOR ACRYLIC PAINT |
| SIZE | -EGGSHELL FINISH |
| INSTALLATION NOTES | -REFER TO PLAN |
| LOCATION | -- |
| CONTACT | -- |
| PHONE | -- |
| EMAIL | -- |

**PNT4** — PAINT FINISH — *PNT4* — CEILING FINISH - FIELD

| | |
|---|---|
| MANUFACTURER | -BENJAMIN MOORE |
| PRODUCT NUMBER | -CHANTILLY LACE |
| COLOUR NAME | -OC-65 |
| DESCRIPTION | -INTERIOR ACRYLIC PAINT |
| SIZE | -EGGSHELL FINISH |
| INSTALLATION NOTES | -CEILING, EXPOSED STEEL, UNLESS OTHERWISE NOTED |
| LOCATION | -- |
| CONTACT | -- |
| PHONE | -- |
| EMAIL | -- |

**PNT5** — PAINT FINISH — *PNT5* — WALL AND CEILING FINISH

| | |
|---|---|
| MANUFACTURER | -BENJAMIN MOORE |
| PRODUCT NUMBER | -2125-20 |
| COLOUR NAME | -DEEP SPACE |
| DESCRIPTION | -EXTERIOR / INTERIOR ACRYLIC PAINT |
| SIZE | -EGGSHELL FINISH |
| INSTALLATION NOTES | -ALL EXPOSED STEEL IN VEHICLE BAY CEILING (I.E. JOISTS AND DECK, CONDUITS, PIPES, ETC. REFER TO SPECIFICATIONS FOR COLOR FOR GAS AND SPRINKLER PIPES). GYM WALLS, FOUR FOLD DOOR JAMBS, |
| LOCATION | OUTDOOR STORAGE, BUNKER GEAR ROOM, LAUNDRY, WORKSHOP, |
| CONTACT | -- |
| PHONE | -- |
| EMAIL | -- |

**PNT6** — *PNT6* — HM DOOR & FRAME

| | |
|---|---|
| MANUFACTURER | -BENJAMIN MOORE |
| PRODUCT NUMBER | -2125-20 |
| COLOUR NAME | -DEEP SPACE |
| DESCRIPTION | -INTERIOR ACRYLIC PAINT |
| SIZE | -EGGSHELL FINISH |
| INSTALLATION NOTES | -HOLLOW METAL FRAME AND DOORS, FOUR FOLD DOOR JAMBS |
| LOCATION | -- |
| CONTACT | -- |
| PHONE | -- |
| EMAIL | -- |

**WT1** — TILE FINISH — *WT1* — KITCHEN

| | |
|---|---|
| MANUFACTURER | -OLYMPIA TILE |
| PRODUCT NUMBER | -COLOUR & DIMENSION SERIES |
| COLOUR NAME | -WARM WHITE MATTE |
| DESCRIPTION | -- |
| SIZE | -100 X 400 - STACK |
| INSTALLATION NOTES | -BOND GROUT SHALL BE MAPEI #38 AVALANCHE |
| LOCATION | -- |
| CONTACT | -- |
| PHONE | -- |
| EMAIL | -- |

**WT2** — TILE FINISH — *WT2* — SHOWERS

| | |
|---|---|
| MANUFACTURER | -CENTURA |
| PRODUCT NUMBER | -MBU1314 |
| COLOUR NAME | -SLATE GREY |
| DESCRIPTION | -PLAIN TECHNO, MATTE FINISH, RECTANGULAR PATTERNED MOSAIC |
| SIZE | -30CM X 30CM |
| INSTALLATION NOTES | -- |
| LOCATION | -- |
| CONTACT | -- |
| PHONE | -- |
| EMAIL | -- |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SEALS

ONTARIO ASSOCIATION OF ARCHITECTS — DAVID PREMI — LICENCE 4316

MISSISSAUGA

**CITY OF MISSISSAUGA FIRE STATION 123**

3050 THE COLLEGEWAY MISSISSAUGA, ONTARIO CANADA

| | |
|---|---|
| **SITE PLAN APPLICATION #** | SP 24-3 |
| **DEVELOPMENT TYPE** | EMERGENCY SERVICES |
| **LEGAL DESCRIPTION** | PART OF BLOCK 124 REGISTERED PLAN 43M-745 |
| **APPLICANT INFO** | DAVID PREMI, 25 MAIN ST. W, SUITE 1800, HAMILTON, ON L8P 1H1 905.522.0220 |
| **OWNER INFO** | CITY OF MISSISSAUGA, ADRIANA TANTALO, 300 CITY CENTRE DRIVE 905.615.3200 X 3395 |

| NO. | ISSUES/REVISIONS | DATE |
|---|---|---|
| 10 | TENDER | 05/06/24 |
| 9 | SPA RESUBMISSION | 03/12/24 |
| 8 | BP - RESUBMISSION | 02/23/24 |
| 7 | PERMIT | 01/22/24 |
| 6 | CLASS A ESTIMATE | 01/22/24 |
| 5 | 90% CD SUBMISSION | 1/22/24 |
| 4 | FORMAL SPA | 12/05/23 |
| 3 | MINOR VARIANCE APPLICATION | 09/08/23 |
| 2 | PAM 1 RE-SUBMISSION | 09/07/23 |
| 1 | PRELIMINARY ZONING REVIEW RE-SUBMISSION | 08/02/23 |
| 0 | SPA PRE-CONSULTATION | 03/28/23 |

DRAWING TITLE:

**LEVEL 01 - FINISHES PLAN**

| | |
|---|---|
| ISSUE DATE: | 05/06/24 |
| DRAWN BY: SRL/AF | CHECKED BY: SRL |
| PROJECT NO.: 12301 | SCALE: As indicated |
| DRAWING NO.: | REVISION: |

**A03.12** — **10**


2024-05-03 4:47:38
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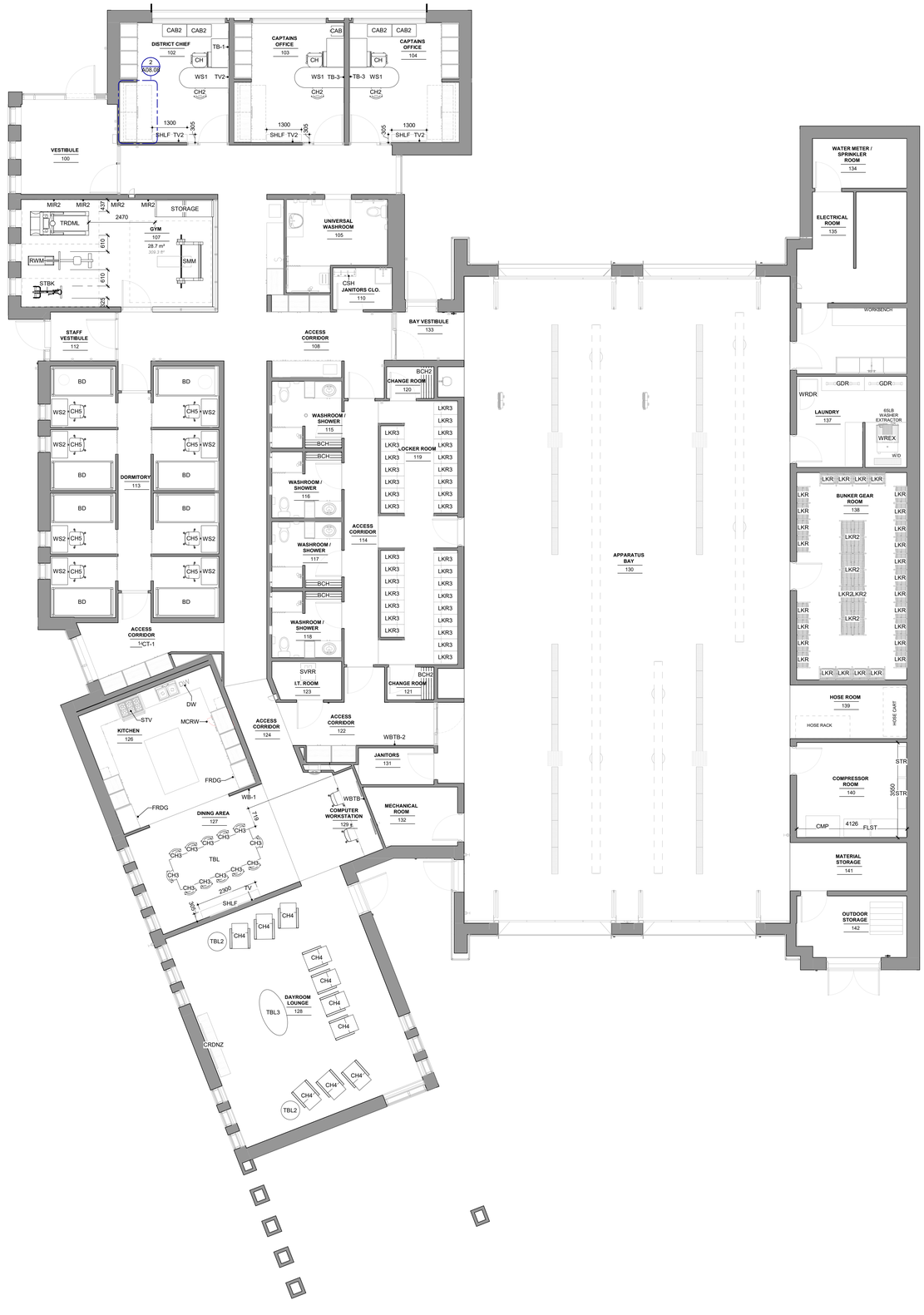


## FURNITURE, FIXTURE & EQUIPMENT SCHEDULE

**GENERAL NOTES**

REFER TO & COORDINATE WITH CONSULTANT DRAWINGS AND SPECIFICATIONS FOR FULL SPECS OF EQUIPMENT. COORDINATE WITH OWNER FOR SECURITY AND AV EQUIPMENT

| CODE | DESCRIPTION | SUPPLIER | MODEL NO. | QTY |
|---|---|---|---|---|
| BASE CONTRACT EQUIPMENT | | | | |
| LKR | 24x20x82 LOCKER, RED RACKS | READY RACK | RRWM-4/24, RRWM-5/24, RRWM-6/24 | 27 |
| LKR2 | 24x20x82 FREESTANDING RED RACK, DOUBLE SIDED UNITS | READY RACK | RFDS-4/24 | 5 |
| LKR3 | FIRST RESPONDER LOCKERS - SINGLE TIER FULL-HEIGHT | LINCORA INC | SERIES 61 | 32 |
| TB-1 | TACKBOARD 1200 x 900 | FORBO | REFER TO SPEC | 1 |
| TB-2 | TACKBOARD 1200 x 1200 | FORBO | REFER TO SPEC | 1 |
| TB-3 | TACKBOARD 1200 x 2400 | FORBO | REFER TO SPEC | 2 |
| WB-1 | WHITEBOARD 1200 x 980 | FORBO | REFER TO SPEC | 1 |
| WBTB | WHITEBOARD/TACKBOARD 1200 X 3240 | FORBO | REFER TO SPEC | 1 |
| WBTB-2 | WHITEBOARD/TACKBOARD 1200 x 2900 | FORBO | REFER TO SPEC | 1 |
| GYM EQUIPMENT | | | | |
| MIR2 | FLAT MIRROR | CONTRACTOR | MI | 4 |
| CASH ALLOWANCE EQUIPMENT | | | | |
| BD | TWIN XL BED | TBC | TBC | 8 |
| GYM EQUIPMENT | | | | 2 |
| RWM | ROWING MACHINE | TBC | TBC | 1 |
| SMM | SMITH MACHINE | TBC | TBC | 1 |
| STBK | STATIONARY BIKE | TBC | TBC | 1 |
| TRDML | TREADMILL | TBC | TBC | 1 |
| I.T EQUIPMENT | | | | |
| SVRR | ECONOMICAL UL-APPROVED PRO SERIES I VERTICAL RACKS | WINSTED CORPORATION | V8811 | 1 |
| KITCHEN APPLICANCES | | | | |
| DW | 300 SERIES 24" SMART BUILT-IN DISHWASHER, THIRD RACK, SS, 46 DBA | HOME CONNECT | SHE53C85N | 1 |
| FRDG | 36-INCH W 20 CU.FT. FRENCH DOOR REFRIGERATOR IN FINGERPRINT RESISTANT STAINLESS STEEL, COUNTER DEPTH, ENERGY STAR | WHIRLPOOL | WRF540CWHZ | 2 |
| MCRW | 0.9 CU.FT. COUNTERTOP MICROWAVE, 900 WATT | WHIRLPOOL | YWMC30309LS | 1 |
| STV | 36" ELECTRIC RANGE, CONVECTION, 5 BURNER, 1 OVEN, FRONT CONTROLS, STAINLESS STEEL | THOR KITCHEN | HRE3601 | 1 |
| LAUNDRY EQUIPMENT | | | | |
| GDR | 2-GEAR + 2 WETSUIT DRYER | H&R MACHINE INC | PHEONIX DRYER - ELITE | 2 |
| WRDR | FRONT LOAD EXTRA POWER STACKED WASHER AND ELECTRIC DRYER IN VOLCANO BLACK | MAYTAG | YMED6630MBK | 1 |
| WREX | WASHER EXTRACTOR | UNIMAC | UW065 TOUCH | 1 |
| SCBA EQUIPMENT | | | | |
| CMP | COMPRESSOR | MAKO | BAM99A | 1 |
| FLST | SCFS3-4HP - STATIONARY CONTAINMENT FILL STATIONS | MAKO | MKBSCH3C4 | 1 |
| STR | TM6004 BOTTLE STORAGE | MAKO | MKBVS44C4H | 2 |


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SEALS

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DAVID PREMI
LICENCE
4316

MISSISSAUGA

**CITY OF MISSISSAUGA FIRE STATION 123**

3050 THE COLLEGEWAY MISSISSAUGA, ONTARIO CANADA

| | |
|---|---|
| **SITE PLAN APPLICATION #** | SP 24-3 |
| **DEVELOPMENT TYPE** | EMERGENCY SERVICES |
| **LEGAL DESCRIPTION** | PART OF BLOCK 124 REGISTERED PLAN 43M-745 |
| **APPLICANT INFO** | DAVID PREMI, 25 MAIN ST. W, SUITE 1800, HAMILTON, ON L8P 1H1 905.522.0220 |
| **OWNER INFO** | CITY OF MISSISSAUGA, ADRIANA TANTALO, 300 CITY CENTRE DRIVE 905.615.3200 X 3395 |

| NO. | ISSUES/REVISIONS | DATE |
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| 3 | MINOR VARIANCE APPLICATION | 09/08/23 |
| 2 | PAM 1 RE-SUBMISSION | 09/07/23 |
| 1 | PRELIMINARY ZONING REVIEW RE-SUBMISSION | 08/02/23 |
| 0 | SPA PRE-CONSULTATION | 03/28/23 |

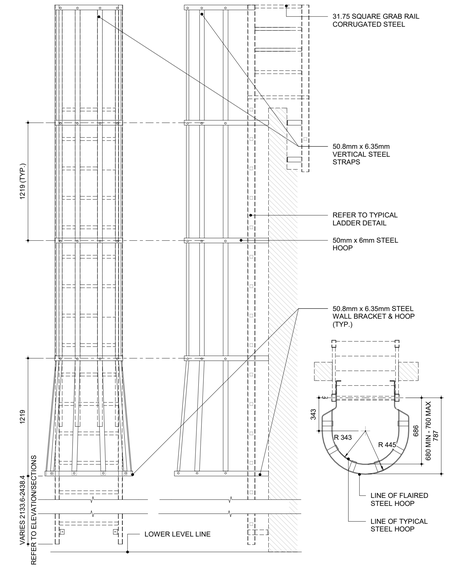
DRAWING TITLE:

**LEVEL 01 - FFE PLAN**

| | |
|---|---|
| ISSUE DATE: | 05/06/24 |
| DRAWN BY: SRL/AF | CHECKED BY: SRL |
| PROJECT NO.: 12301 | SCALE: 1 : 75 |
| DRAWING NO.: | REVISION: |

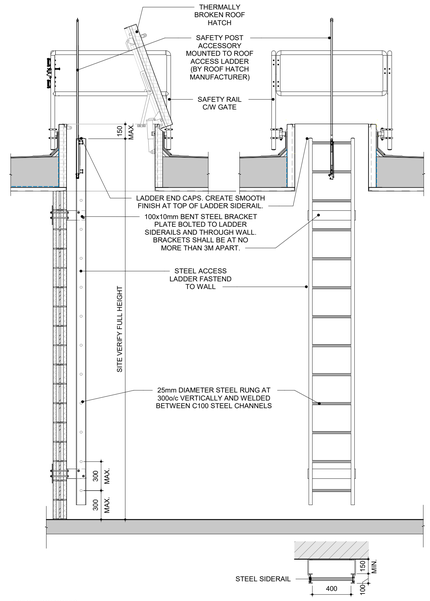
**A03.13** | **10**

PLOT DATE: 2024-05-09 4:47:53 PM



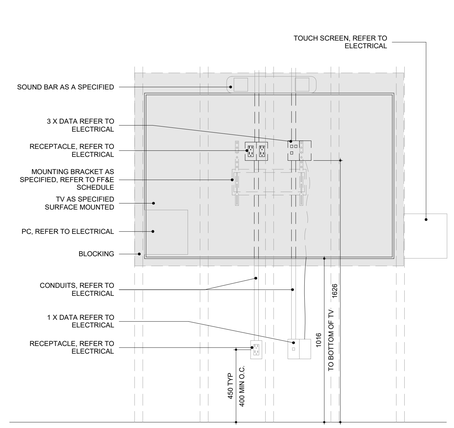

**NOTES:**
1. ALL STEEL GALVANIZED.
2. GRIND SMOOTH ALL WELDS
3. PROVIDE WEEP HOLES AS REQUIRED FOR ALL TUBULAR STEEL
4. ALL LADDERS TO BE DESIGNED IN ACCORDANCE WITH OBC AND OHSA REQUIREMENTS AND REGULATIONS. REF. OHSA ENG DATA SHEET 2-04 (CURRENT REVISION).
5. CAGE REQUIRED IF LADDER EXCEEDS 5m IN HEIGHT.
6. REFER TO LADDER DETAIL FOR NON-CAGE RELATED DIMENSIONS AND SPECIFICATIONS.

## 3 EXTERIOR ROOF CAGE ACCESS LADDER DETAIL
1 : 25



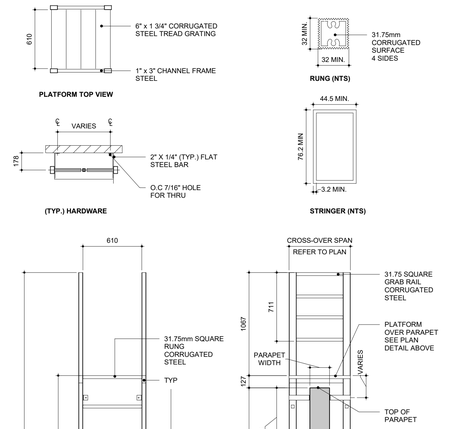

***EXECUTION NOTES:***
1. ALL STEEL GALVANIZED.
2. ALL LADDERS TO BE DESIGNED IN ACCORDANCE WITH OBC AND OHSA REQUIREMENTS AND REGULATIONS. REF. OHSA ENG DATA SHEET 2-04 (CURRENT REVISION).
3. GRIND SMOOTH ALL WELDS.
4. PRIME AND PAINT ALL STEEL.

## 1 INTERIOR ROOF ACCESS LADDER DETAIL
1 : 25




***NOTES:***
1. REFER TO ELECTRICAL FOR ELECTRICAL COMPONENT SPECIFICATIONS AND REQUIRMENTS.
2. FOR MOUNTING HEIGHTS SHOWN AS A RANGE. SELECT HEIGHT AND INSTALL ALL FIXTURES AT THAT HEIGHT (TYP.). FIXTURES THAT ARE WITHIN VISUAL SIGHTLINE OF EACH OTHER SHALL BE AT SAME HEIGHT.
3. FOR MOUNTING HEIGHTS NOT SHOWN. CONFIRM HEIGHT WITH CONSULTANT PRIOR TO INSTALLATION. NO CONTROLS, OPERATING OR DISPENSING COMPONENTS HIGHER THAN 1100mm AFF.
4. ALL DIMENSIONS SUBJECT TO SPECIFIC MUNICIPAL REQUIREMENTS. CONFIRM WITH CONSULTANT PRIOR TO INSTALLATION.
5. SECURE ALL WALLMOUNTED ITEMS TO PLYWOOD OR SHEET METAL BACKING/BLOCKING TYPICAL ALL LOCATIONS. FASTENING OF WALL MOUNTED ITEMS THROUGH GYPSUM ONLY WILL NOT BE PERMITTED
   A. SHADED AREAS INDICATE APPROXIMATE LOCATION OF 3/4" PLYWOOD OR SHEET METAL BACKING (18 GA.) UNLESS NOTED OTHERWISE. COORDINATE W/FIXTURE. TYPICAL 8" (200MM) WIDE STRIP.
   B. SHADED AREAS INDICATE APPROXIMATE LOCATION OF SHEET METAL (18 GA.) COMBINED WITH 3/4" PLYWOOD BACKING TO HELP RESIST AXIAL FORCES, UNLESS NOTED OTHERWISE. COORDINATE WITH FIXTURE. TYPICAL 8" (200MM) WIDE STRIP.

## 4 TV ON DRYWALL PARTITION DETAIL
1 : 15



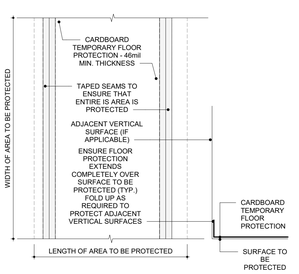




***INSTALLATION LOCATIONS***
1. SUPPLY AND INSTALL CARDBOARD TEMPORARY FLOOR PROTECTION ON ALL FINISHED CONCRETE FLOOR SURFACES UNTIL PROJECT COMPLETION
2. SUPPLY AND INSTALL CARDBOARD TEMPORARY FLOOR PROTECTION ON ALL FINISHED FLOOR SURFACES THAT MAY BE IMPACTED BY ALL REMAINING WORK TO BE COMPLETED.

***EXECUTION***
1. SWEEP OR VACUUM ALL DIRT AND DEBRIS OFF SURFACE TO BE COVERED.
2. ROLL OUT BOARD
3. CUT TO DESIRED LENGTH WITH UTILITY KNIFE.
4. TAPE THE SEAMS.
5. WHEN TAPING DIRECTLY TO THE FLOOR, CONSULT THE FLOORING MANUFACTURER FOR RECOMMENDED TAPE.
6. USE MULTIPLE ROLLS AS REQUIRED TO COVER ENTIRE SURFACE

***BASIS OF DESIGN***
1. RAM BOARD - HEAVY DUTY TEMPORARY FLOOR PROTECTION - 46mil MIN. THICKNESS




## 5 CARDBOARD TEMPORARY FLOOR PROTECTION
1 : 20

**NOTES:**
1. ALL STEEL GALVANIZED.
2. GRIND SMOOTH ALL WELDS
3. PROVIDE WEEP HOLES AS REQUIRED FOR ALL TUBULAR STEEL
4. ALL LADDERS TO BE DESIGNED IN ACCORDANCE WITH OBC AND OHSA REQUIREMENTS AND REGULATIONS. REF. OHSA ENG DATA SHEET 2-04 (CURRENT REVISION).
5. CAGE REQUIRED IF LADDER EXCEEDS 5m IN HEIGHT. REFER TO CAGE DETAILS.

## 2 EXTERIOR ROOF ACCESS LADDER DETAIL
1 : 25

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| 1 | PRELIMINARY ZONING REVIEW RE-SUBMISSION | 08/02/23 |
| 0 | SPA PRE-CONSULTATION | 03/28/23 |

DRAWING TITLE:

**EXTERIOR & INTERIOR TYPICAL DETAILS**

| | |
|---|---|
| ISSUE DATE: | 05/06/24 |
| DRAWN BY: SRL/AF | CHECKED BY: SRL |
| PROJECT NO.: 12301 | SCALE: As indicated |
| DRAWING NO.: | REVISION: |

**A03.14** | **10**

[ PLOT DATE: 2024-05-03 4:47:06 ]
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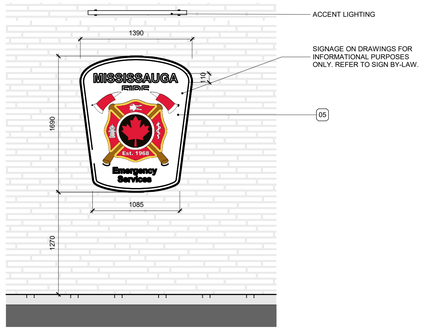
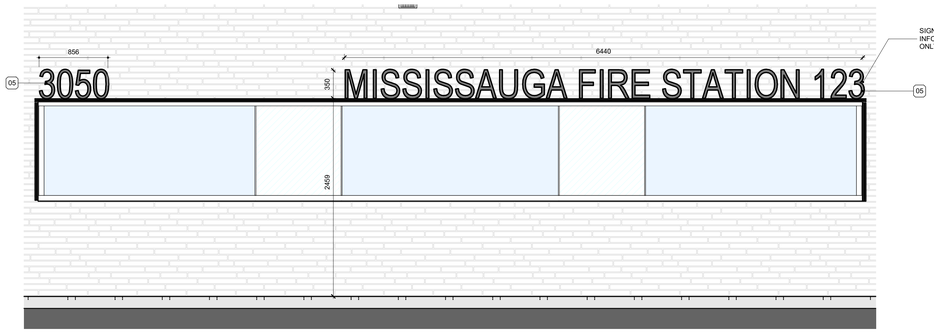



## 7 BUILDING SIGNAGE
1 : 30




## 6 BUILDING SIGNAGE
1 : 30

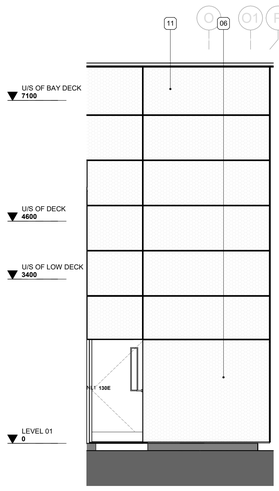
### NOTES

| No. | NOTE |
|---|---|
| 01 | BRICK CLADDING |
| 02 | THERMALLY BROKEN WINDOW |
| 03 | THERMALLY BROKEN CURTAIN WALL |
| 04 | GLAZING |
| 05 | BUILDING SIGNAGE - INCLUDED ON DRAWINGS FOR INFORMATION PURPOSES ONLY |
| 06 | ALUMINUM HONEYCOMB PANEL CLADDING |
| 07 | EXTERIOR INSULATED DOOR |
| 08 | FOUR FOLD DOOR |
| 09 | PREFABRICATED LOUVER |
| 10 | BOARD FENCING |
| 11 | BUILDING-INTEGRATED PHOTOVOLTAIC CLADDING |
| 12 | FIRE ROUTE SIGN |
| 13 | LIGHT - REFER TO RCP |
| 14 | TRANSFORMER |
| 15 | GENERATOR |

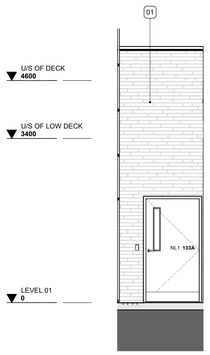
### GENERAL NOTES - BUILDING ELEVATIONS

1. ***GENERAL REQUIREMENTS***
   1. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH MECHANICAL AND ELECTRICAL DRAWINGS PREPARED BY THE MECHANICAL AND ELECTRICAL ENGINEERS TO DETERMINE LOCATIONS OF ALL MECHANICAL AND ELECTRICAL PENETRATIONS, FIXTURES, DEVICES ETC.
   2. ELEVATION DRAWINGS MAY NOT SHOW ALL PENETRATIONS. CONTRACTOR TO REVIEW ALL CONTRACT DRAWINGS AND SPECIFICATIONS TO DETERMINE FULL SCOPE OF WORK. MAKE PROVISIONS FOR PENETRATIONS WHERE INDICATED AND REQUIRED UNDER THE SCOPE OF THIS CONTRACT.
   3. ELEVATION DRAWINGS MAY NOT SHOW ALL FIXTURES, DEVICES ETC. CONTRACTOR TO REVIEW ALL CONTRACT DRAWINGS AND SPECIFICATIONS TO DETERMINE FULL SCOPE OF WORK. REPORT ANY DISCREPANCIES WITH MECHANICAL AND ELECTRICAL DRAWINGS TO CONSULTANT IMMEDIATELY. OBTAIN INSTRUCTION FROM CONSULTANT BEFORE COMMENCING INSTALLATION.
   4. LOCATION OF FIXTURES, DEVICES ETC. AS SHOWN ON ELEVATION DRAWINGS SHALL BE INSTALLED IN THE LOCATIONS INDICATED. UNLESS SPECIFICALLY DIMENSIONED, FIXTURES SUCH AS WALL MOUNTED LIGHTS SHALL BE CENTERED OVER OPENINGS.
   5. ALL DOOR AND WINDOW OPENINGS TO BE SITE MEASURED BY CONTRACTOR PRIOR TO FABRICATION.
   6. UNLESS OTHERWISE NOTED, ALL DIMENSIONS SHALL BE TAKEN FROM MASONRY OPENINGS.
   7. UNLESS OTHERWISE NOTED, ALL GLAZING WITHIN ALUMINUM ASSEMBLIES ARE TO BE DOUBLE-GLAZED, SEALED AND INSULATED UNITS.
   8. UNLESS OTHERWISE NOTED, ALL JOINT SEALANTS SEPARATING ALUMINUM ASSEMBLIES AND OTHER SUBSTRATE TO MATCH THE COLOUR OF THE ADJOINING ALUMINUM FINISHED ASSEMBLIES.

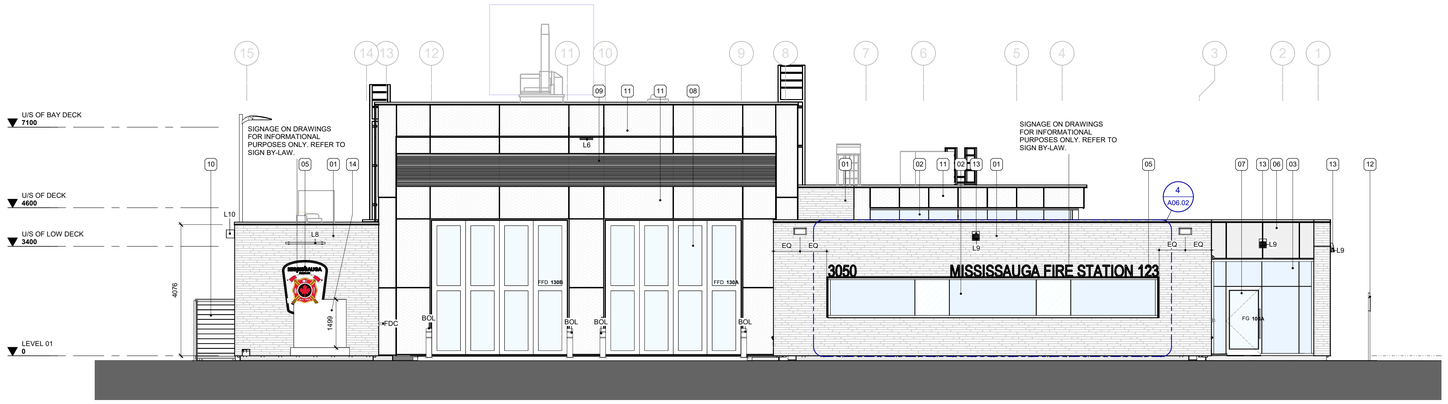
NOTE:
SIGNAGE IS INCLUDED ON THE ELEVATION DRAWING FOR INFORMATION PURPOSES ONLY. PLEASE CONTACT THE SIGN UNIT OF THE PLANNING AND BUILDING DEPARTMENT AT 905-615-4311 FOR THE SIGN PERMIT PROCESS.



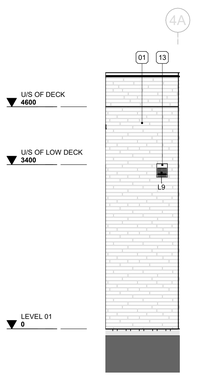

## 11 BUILDING ELEVATION
1 : 50



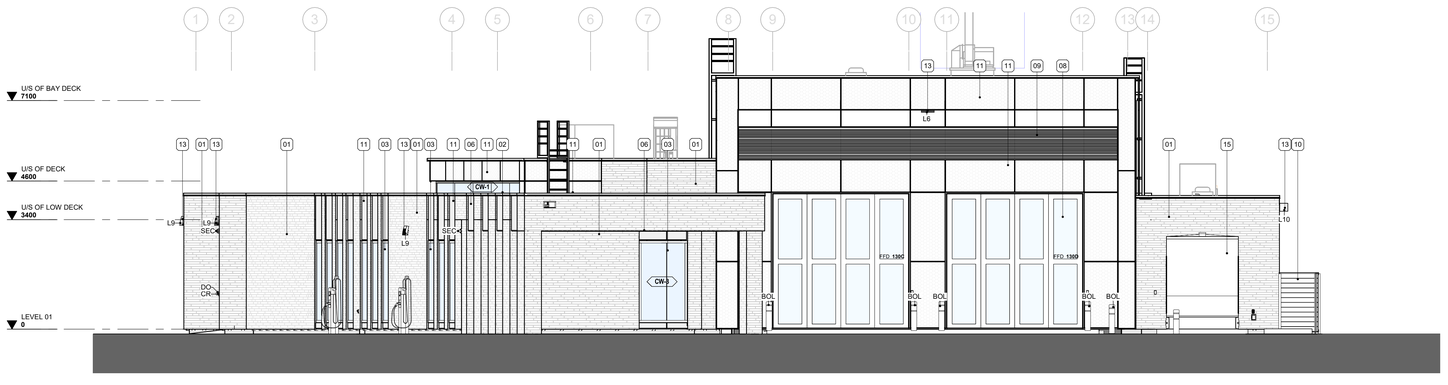

## 8 BUILDING ELEVATION
1 : 50



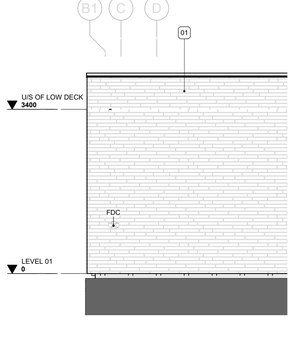

## 1 BUILDING ELEVATION
1 : 75




## 9 BUILDING ELEVATION
1 : 50




## 2 BUILDING ELEVATION
1 : 75

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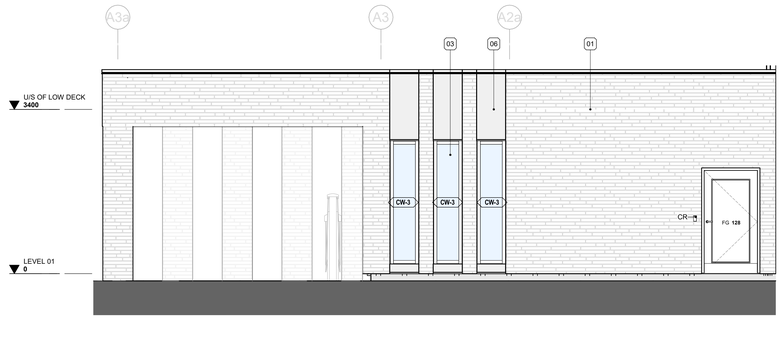
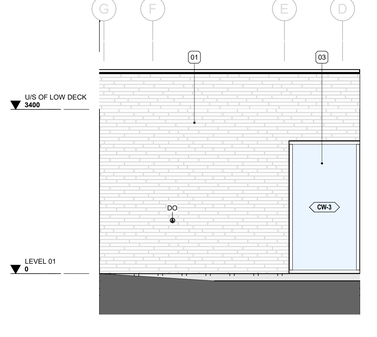
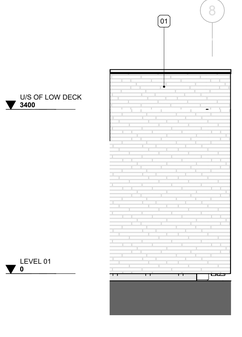
1 : 50




## 5 BUILDING ELEVATION
1 : 50




## 4 BUILDING ELEVATION
1 : 50




## 3 BUILDING ELEVATION
1 : 50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SEALS

ONTARIO ASSOCIATION OF ARCHITECTS
DAVID PREMI
LICENCE 4376

MISSISSAUGA

**CITY OF MISSISSAUGA FIRE STATION 123**

3050 THE COLLEGEWAY MISSISSAUGA, ONTARIO CANADA

| | |
|---|---|
| **SITE PLAN APPLICATION #** | SP 24-3 |
| **DEVELOPMENT TYPE** | EMERGENCY SERVICES |
| **LEGAL DESCRIPTION** | PART OF BLOCK 124 REGISTERED PLAN 43M-745 |
| **APPLICANT INFO** | DAVID PREMI, 25 MAIN ST. W, SUITE 1800, HAMILTON, ON L8P 1H1<br>905.522.0220 |
| **OWNER INFO** | CITY OF MISSISSAUGA, ADRIANA TANTALO, 300 CITY CENTRE DRIVE<br>905.615.3200 X 3395 |

| NO. | ISSUES/REVISIONS | DATE |
|---|---|---|
| 11 | TENDER | 05/06/24 |
| 10 | BP-RESUBMISSION | 05/02/24 |
| 9 | SPA RESUBMISSION | 03/12/24 |
| 8 | BP - RESUBMISSION | 02/23/24 |
| 7 | PERMIT | 01/22/24 |
| 6 | CLASS A ESTIMATE | 01/22/24 |
| 5 | 90% CD SUBMISSION | 1/22/24 |
| 4 | FORMAL SPA | 12/05/23 |
| 3 | MINOR VARIANCE APPLICATION | 09/08/23 |
| 2 | PAM 1 RE-SUBMISSION | 09/07/23 |
| 1 | PRELIMINARY ZONING REVIEW RE-SUBMISSION | 08/02/23 |
| 0 | SPA PRE-CONSULTATION | 03/28/23 |

DRAWING TITLE:

**EXTERIOR ELEVATIONS**

| | | | |
|---|---|---|---|
| ISSUE DATE: | 05/06/24 | | |
| DRAWN BY: | SRL/AF | CHECKED BY: | SRL |
| PROJECT NO.: | 12301 | SCALE: | As indicated |

DRAWING NO.: **A04.00**

REVISION: **11**

PLOT DATE: 2024-06-04 4:49:33 PM

## NOTES

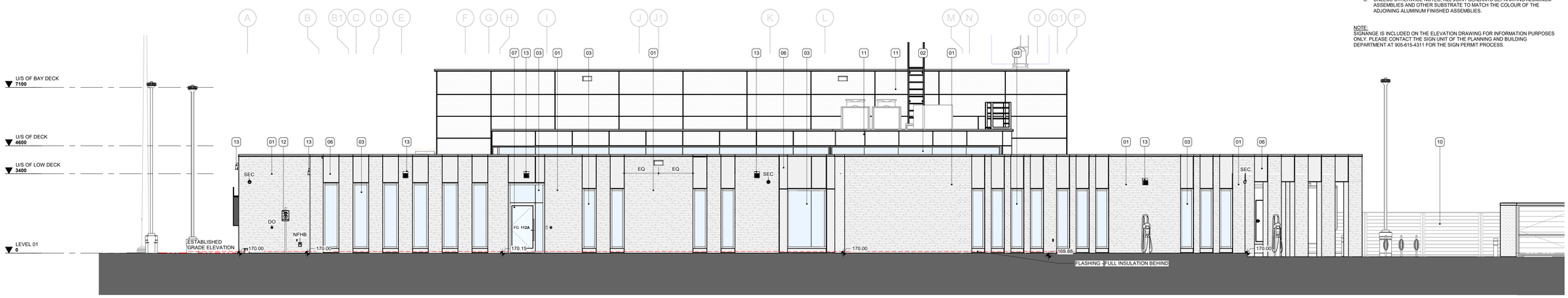
| No. | NOTE |
|---|---|
| 01 | BRICK CLADDING |
| 02 | THERMALLY BROKEN WINDOW |
| 03 | THERMALLY BROKEN CURTAIN WALL |
| 04 | GLAZING |
| 05 | BUILDING SIGNAGE - INCLUDED ON DRAWINGS FOR INFORMATION PURPOSES ONLY |
| 06 | ALUMINUM HONEYCOMB PANEL CLADDING |
| 07 | EXTERIOR INSULATED DOOR |
| 08 | FOUR FOLD DOOR |
| 09 | PREFABRICATED LOUVER |
| 10 | BOARD FENCING |
| 11 | BUILDING-INTEGRATED PHOTOVOLTAIC CLADDING |
| 12 | FIRE ROUTE SIGN |
| 13 | LIGHT - REFER TO RCP |
| 14 | TRANSFORMER |
| 15 | GENERATOR |

## GENERAL NOTES - BUILDING ELEVATIONS

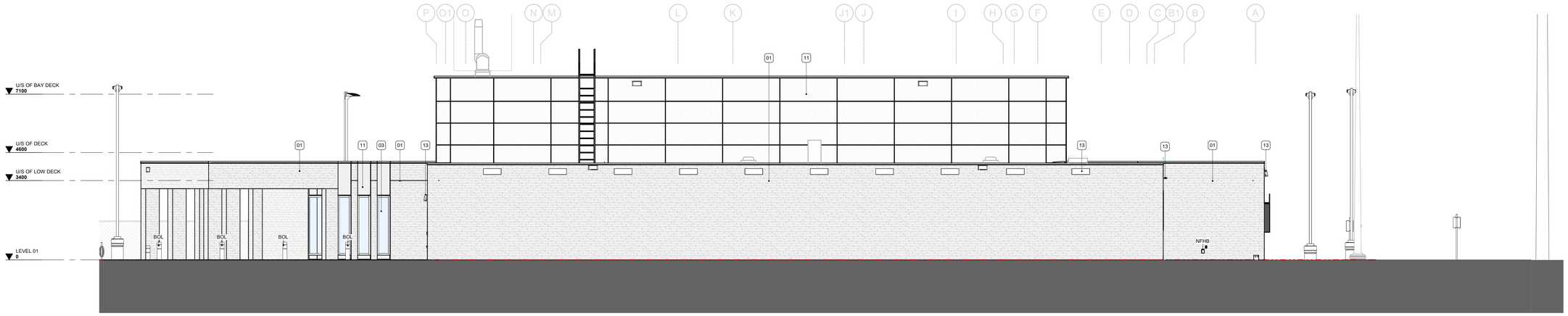
1. ***GENERAL REQUIREMENTS***

1. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH MECHANICAL AND ELECTRICAL DRAWINGS PREPARED BY THE MECHANICAL AND ELECTRICAL ENGINEERS TO DETERMINE LOCATIONS OF ALL MECHANICAL AND ELECTRICAL PENETRATIONS, FIXTURES, DEVICES ETC.
2. ELEVATION DRAWINGS MAY NOT SHOW ALL PENETRATIONS. CONTRACTOR TO REVIEW ALL CONTRACT DRAWINGS AND SPECIFICATIONS TO DETERMINE FULL SCOPE OF WORK. MAKE PROVISIONS FOR PENETRATIONS WHERE INDICATED AND REQUIRED UNDER THE SCOPE OF THIS CONTRACT.
3. ELEVATION DRAWINGS MAY NOT SHOW ALL FIXTURES, DEVICES ETC. CONTRACTOR TO REVIEW ALL CONTRACT DRAWINGS AND SPECIFICATIONS TO DETERMINE FULL SCOPE OF WORK. REPORT ANY DISCREPANCIES WITH MECHANICAL AND ELECTRICAL DRAWINGS TO CONSULTANT IMMEDIATELY. OBTAIN INSTRUCTION FROM CONSULTANT BEFORE COMMENCING INSTALLATION.
4. LOCATION OF FIXTURES, DEVICES ETC. AS SHOWN ON ELEVATION DRAWINGS SHALL BE INSTALLED IN THE LOCATIONS INDICATED. UNLESS SPECIFICALLY DIMENSIONED, FIXTURES SUCH AS WALL MOUNTED LIGHTS SHALL BE CENTERED OVER OPENINGS.
5. ALL DOOR AND WINDOW OPENINGS TO BE SITE MEASURED BY CONTRACTOR PRIOR TO FABRICATION.
6. UNLESS OTHERWISE NOTED, ALL DIMENSIONS SHALL BE TAKEN FROM MASONRY OPENINGS
7. UNLESS OTHERWISE NOTED, ALL GLAZING WITHIN ALUMINUM ASSEMBLIES ARE TO BE DOUBLE-GLAZED, SEALED AND INSULATED UNITS.
8. UNLESS OTHERWISE NOTED, ALL JOINT SEALANTS SEPARATING ALUMINUM ASSEMBLIES AND OTHER SUBSTRATE TO MATCH THE COLOUR OF THE ADJOINING ALUMINUM FINISHED ASSEMBLIES.

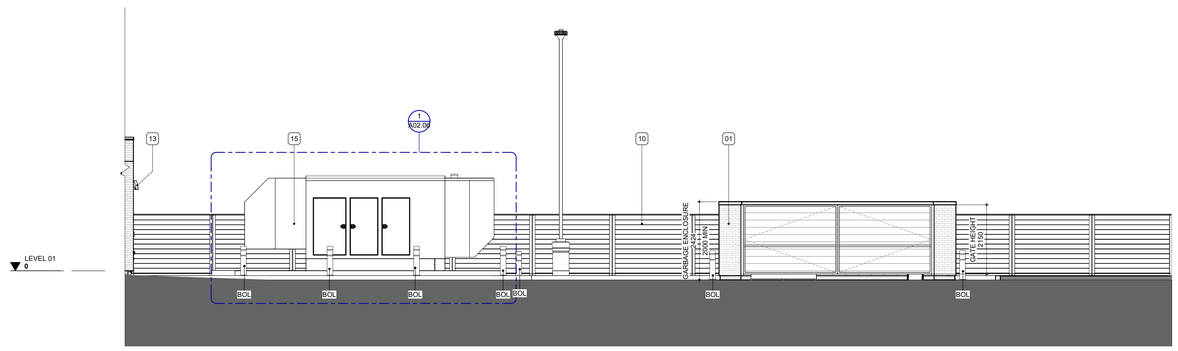
NOTE:
SIGNAGE IS INCLUDED ON THE ELEVATION DRAWING FOR INFORMATION PURPOSES ONLY. PLEASE CONTACT THE SIGN UNIT OF THE PLANNING AND BUILDING DEPARTMENT AT 905-615-4311 FOR THE SIGN PERMIT PROCESS.




**1** BUILDING ELEVATION
1 : 75




**2** BUILDING ELEVATION
1 : 75




**3** SITE ELEVATION
1 : 75

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SEALS

ONTARIO ASSOCIATION OF ARCHITECTS
DAVID PREMI
LICENCE
4316

MISSISSAUGA

## CITY OF MISSISSAUGA FIRE STATION 123

3050 THE COLLEGEWAY MISSISSAUGA, ONTARIO CANADA

| | |
|---|---|
| **SITE PLAN APPLICATION #** | SP 24-3 |
| **DEVELOPMENT TYPE** | EMERGENCY SERVICES |
| **LEGAL DESCRIPTION** | PART OF BLOCK 124 REGISTERED PLAN 43M-745 |
| **APPLICANT INFO** | DAVID PREMI, 25 MAIN ST. W, SUITE 1800, HAMILTON, ON L8P 1H1<br>905.522.0220 |
| **OWNER INFO** | CITY OF MISSISSAUGA, ADRIANA TANTALO, 300 CITY CENTRE DRIVE<br>905.615.3200 X 3395 |

| NO. | ISSUES/REVISIONS | DATE |
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| 1 | PRELIMINARY ZONING REVIEW RE-SUBMISSION | 08/02/23 |
| 0 | SPA PRE-CONSULTATION | 03/28/23 |

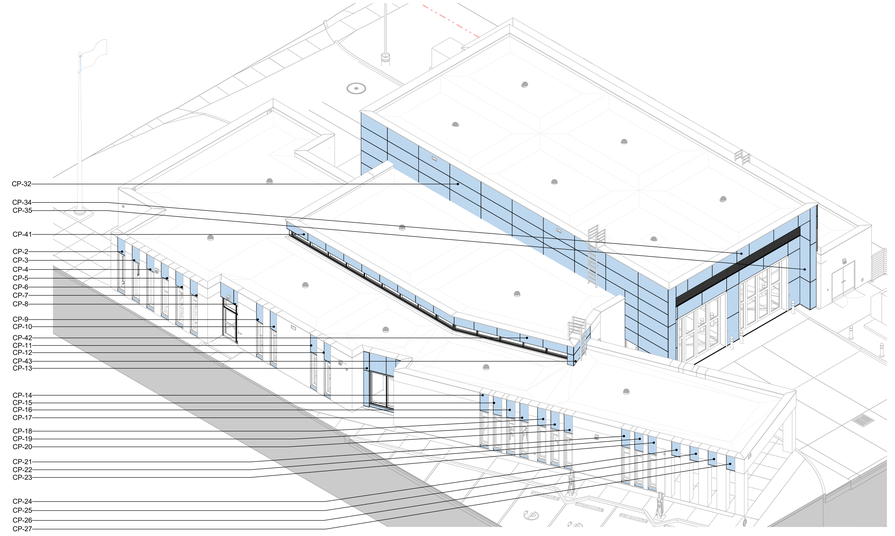
DRAWING TITLE:

**EXTERIOR ELEVATIONS**

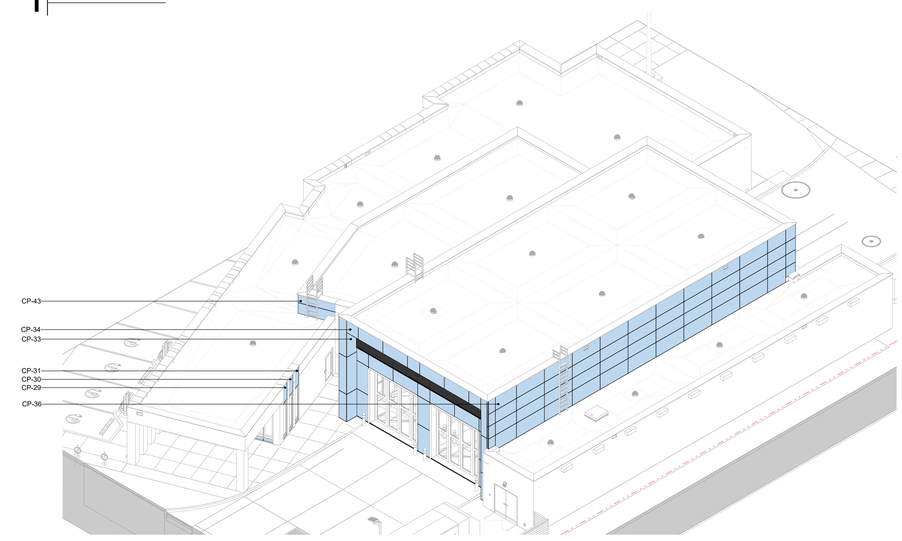
| | |
|---|---|
| ISSUE DATE: | 05/06/24 |
| DRAWN BY: SRL/AF | CHECKED BY: SRL |
| PROJECT NO.: 12301 | SCALE: As indicated |
| DRAWING NO.: | REVISION: |

**A04.01** | **11**

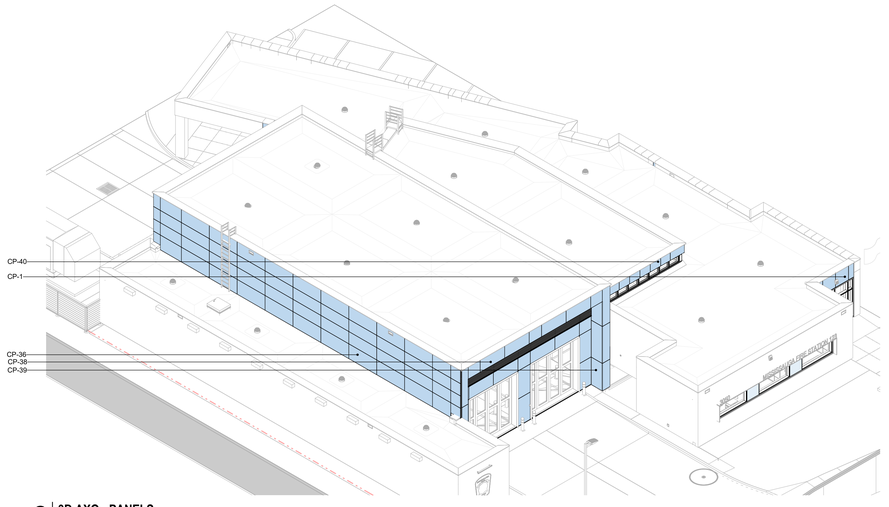
1 PLOT DATE 2024-05-03 4:09:44 PM




**1** 3D AXO - PANELS




**3** 3D AXO - PANELS




**2** 3D AXO - PANELS

[ PLOT DATE ] 2024-04-05 4:49:06 AM

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| NO. | ISSUES/REVISIONS | DATE |
|---|---|---|

DRAWING TITLE:

**CLADDING ELEVATIONS**

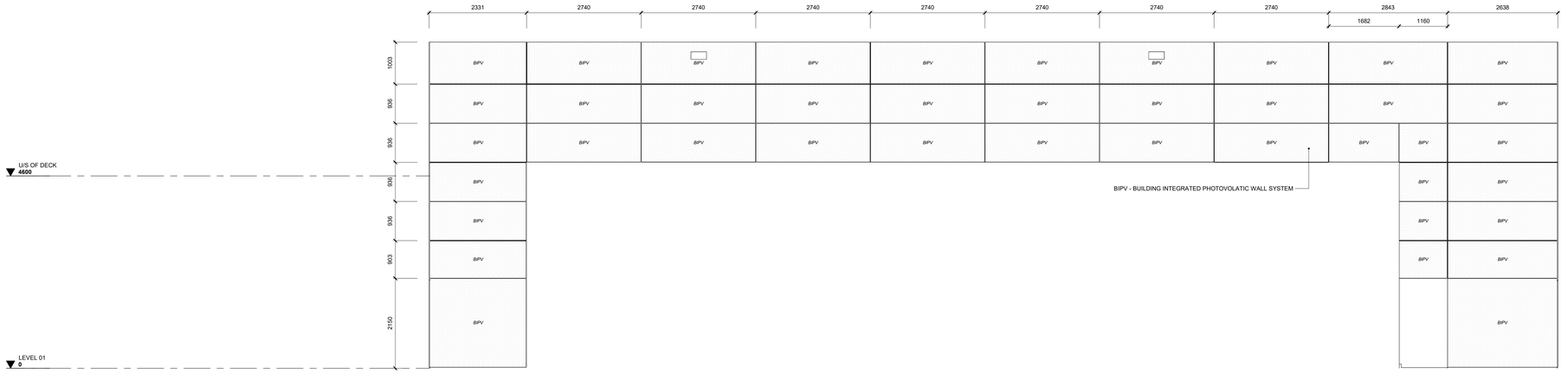
ISSUE DATE:

DRAWN BY: AR CHECKED BY: SRL

PROJECT NO.: 12301 SCALE:

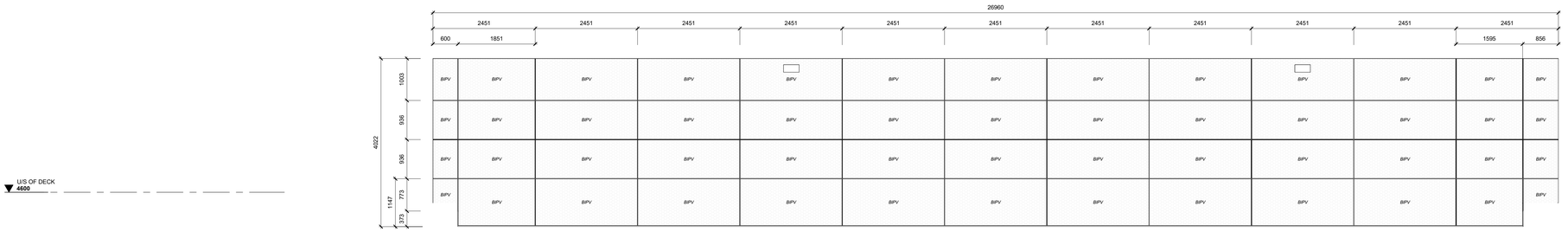
DRAWING NO.: REVISION:

**A04.02**




## 1 CLADDING ELEVATION: CP-32

1 : 50

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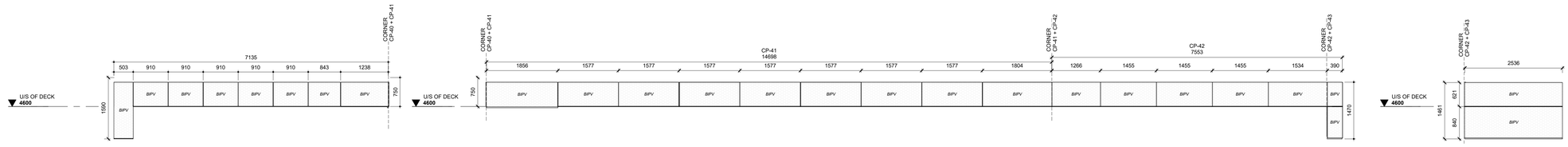
1 : 50




## 5 CLADDING ELEVATION: CP-40

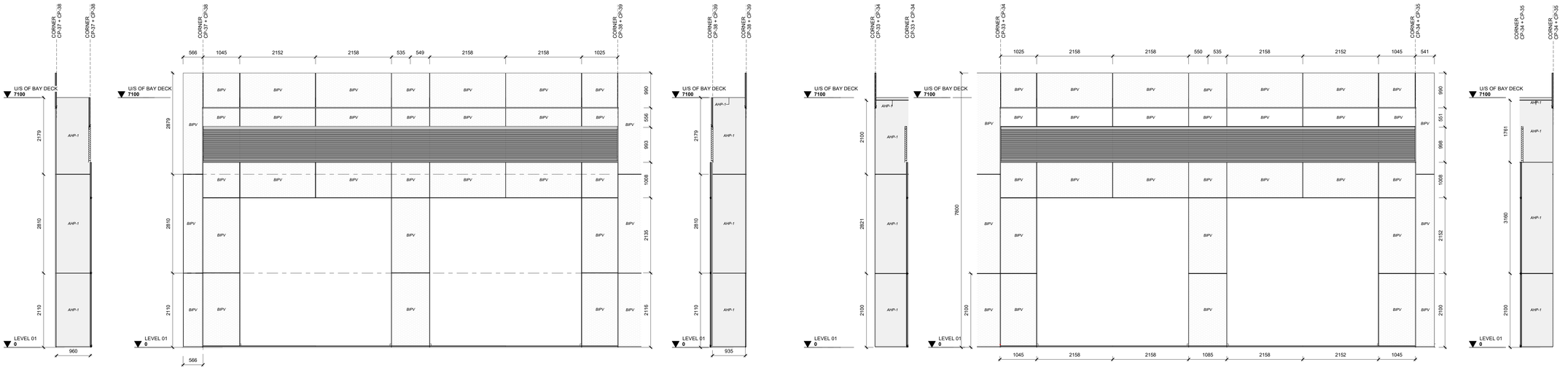
1 : 50

## 4 CLADDING ELEVATION: CP-41 + CP-42

1 : 50

## 3 CLADDING ELEVATION: CP-43

1 : 50




## 11 CLADDING ELEVATION: CP-37

1 : 50

## 10 CLADDING ELEVATION: CP-38

1 : 50

## 9 CLADDING ELEVATION: CP-39

1 : 50

## 8 CLADDING ELEVATION: CP-33

1 : 50

## 7 CLADDING ELEVATION: CP-34

1 : 50

## 6 CLADDING ELEVATION: CP-35

1 : 50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MISSISSAUGA

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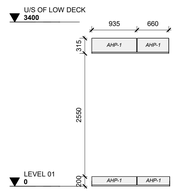
DRAWING TITLE:

**CLADDING ELEVATIONS**

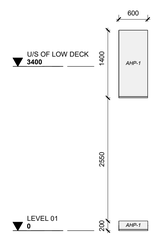
| | |
|---|---|
| ISSUE DATE: | 05/06/24 |
| DRAWN BY: AR | CHECKED BY: SRL |
| PROJECT NO.: 12301 | SCALE: 1 : 50 |
| DRAWING NO.: | REVISION: |

**A04.03** | **10**


PLOT DATE: 2024-05-03 4:49:35 PM




**28** CLADDING ELEVATION: CP-28
1 : 50

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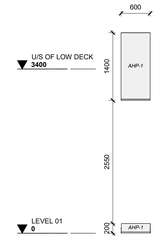
1 : 50

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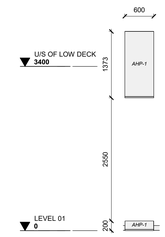


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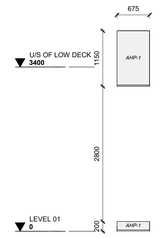


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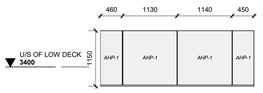
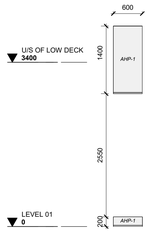



**1** CLADDING ELEVATION: CP-1
1 : 50

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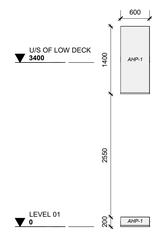


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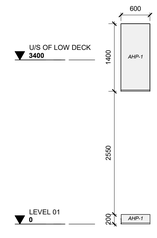


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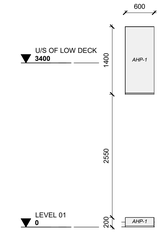


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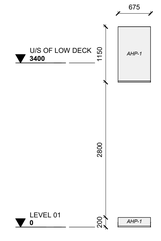


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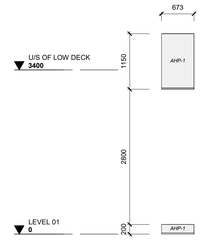
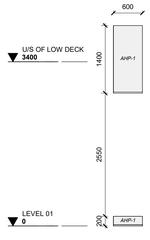



**2** CLADDING ELEVATION: CP-2
1 : 50

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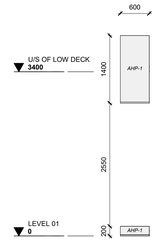


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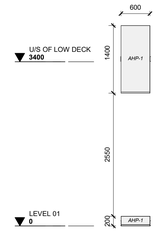


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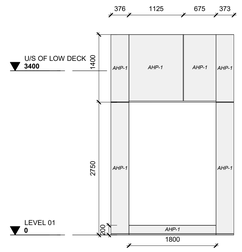


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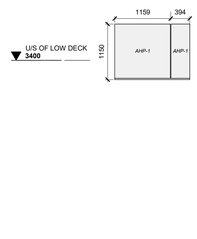


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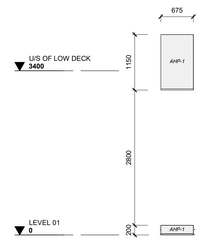
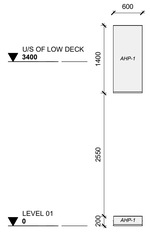



**3** CLADDING ELEVATION: CP-3
1 : 50

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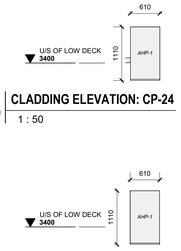


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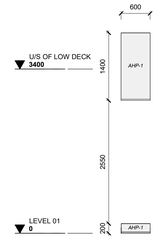
1 : 50

**25** CLADDING ELEVATION: CP-25
1 : 50

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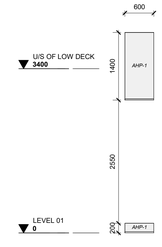


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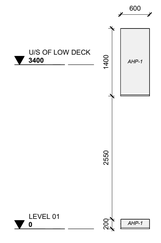


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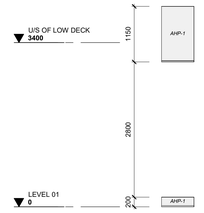


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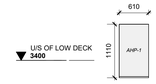
1 : 50




**26** CLADDING ELEVATION: CP-26
1 : 50

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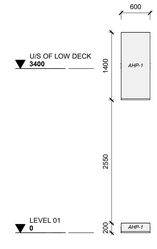


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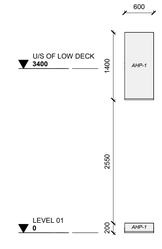


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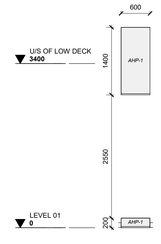
1 : 50

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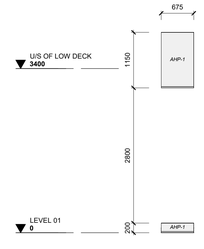
1 : 50




**5** CLADDING ELEVATION: CP-5
1 : 50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ONTARIO ASSOCIATION OF ARCHITECTS
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LICENCE
4316

MISSISSAUGA

**CITY OF MISSISSAUGA FIRE STATION 123**

3050 THE COLLEGEWAY MISSISSAUGA, ONTARIO CANADA

| | |
|---|---|
| **SITE PLAN APPLICATION #** | SP 24-3 |
| **DEVELOPMENT TYPE** | EMERGENCY SERVICES |
| **LEGAL DESCRIPTION** | PART OF BLOCK 124 REGISTERED PLAN 43M-745 |
| **APPLICANT INFO** | DAVID PREMI, 25 MAIN ST. W, SUITE 1800, HAMILTON, ON L8P 1H1<br>905.522.0220 |
| **OWNER INFO** | CITY OF MISSISSAUGA, ADRIANA TANTALO, 300 CITY CENTRE DRIVE<br>905.615.3200 X 3395 |

| NO. | ISSUES/REVISIONS | DATE |
|---|---|---|
| 0 | TENDER | 05/06/24 |

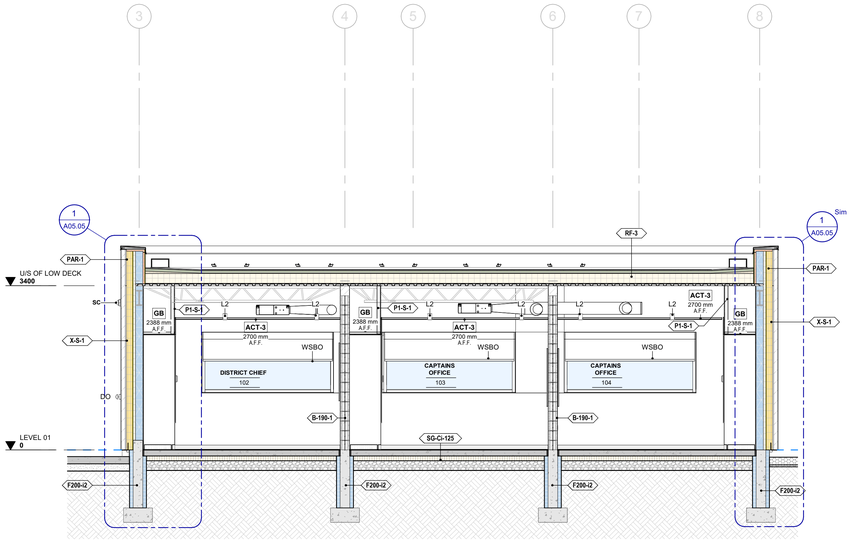
DRAWING TITLE:

**CLADDING ELEVATIONS**

| | |
|---|---|
| ISSUE DATE: | 05/06/24 |
| DRAWN BY: AR | CHECKED BY: SL |
| PROJECT NO.: 12301 | SCALE: 1 : 50 |
| DRAWING NO.: | REVISION: |

**A04.04** **0**


PLOT DATE 2024-06-04 4:49:39 PM

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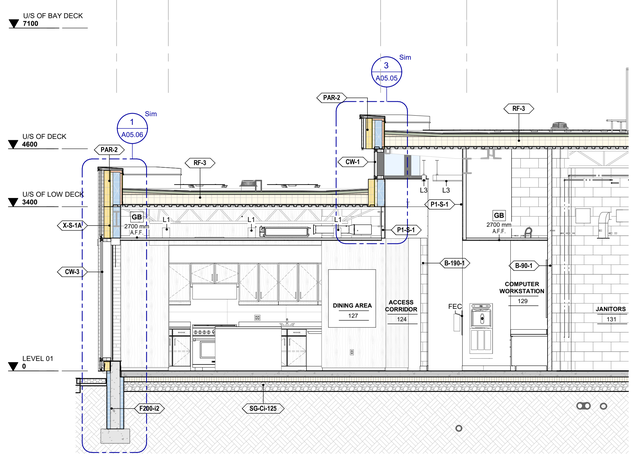


## 1 BUILDING SECTION
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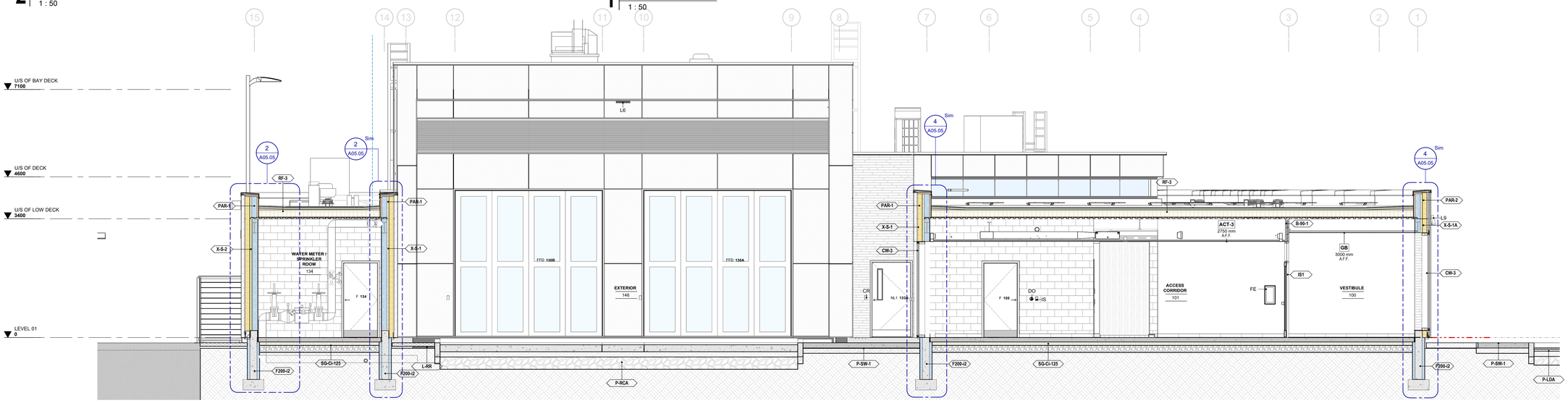


## 3 BUILDING SECTION
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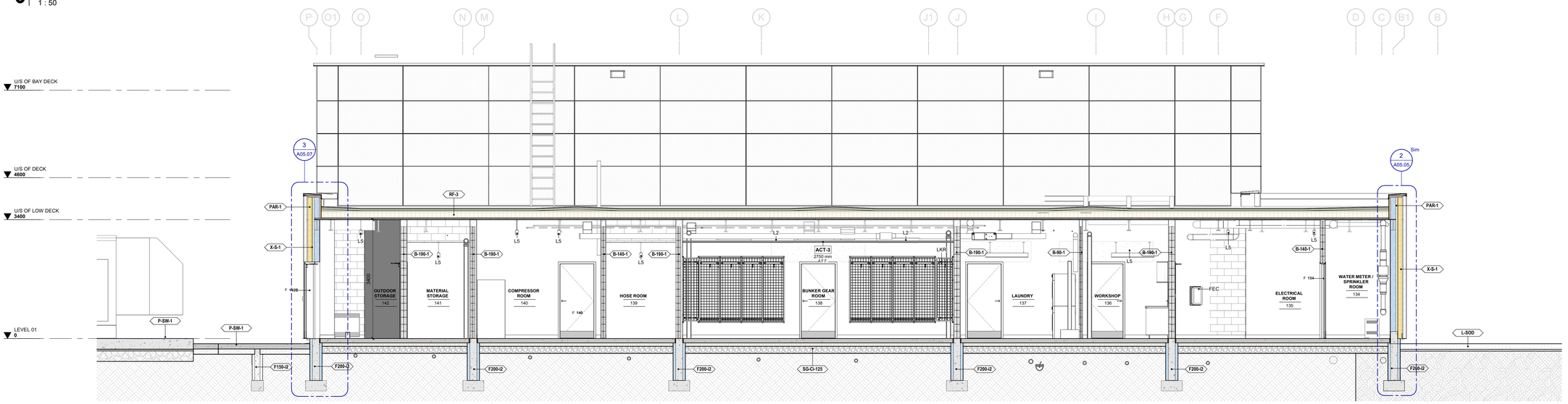


## 4 BUILDING SECTION
1 : 50


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MISSISSAUGA

# CITY OF MISSISSAUGA FIRE STATION 123

3050 THE COLLEGEWAY MISSISSAUGA, ONTARIO CANADA

| | |
|---|---|
| **SITE PLAN APPLICATION #** | SP 24-3 |
| **DEVELOPMENT TYPE** | EMERGENCY SERVICES |
| **LEGAL DESCRIPTION** | PART OF BLOCK 124 REGISTERED PLAN 43M-745 |
| **APPLICANT INFO** | DAVID PREMI, 25 MAIN ST. W, SUITE 1800, HAMILTON, ON L8P 1H1<br>905.522.0220 |
| **OWNER INFO** | CITY OF MISSISSAUGA, ADRIANA TANTALO, 300 CITY CENTRE DRIVE<br>905.615.3200 X 3395 |

| NO. | ISSUES/REVISIONS | DATE |
|---|---|---|
| 10 | TENDER | 05/06/24 |
| 9 | SPA RESUBMISSION | 03/12/24 |
| 8 | BP - RESUBMISSION | 02/23/24 |
| 7 | PERMIT | 01/22/24 |
| 6 | CLASS A ESTIMATE | 01/22/24 |
| 5 | 90% CD SUBMISSION | 1/22/24 |
| 4 | FORMAL SPA | 12/05/23 |
| 3 | MINOR VARIANCE APPLICATION | 09/08/23 |
| 2 | PAM 1 RE-SUBMISSION | 09/07/23 |
| 1 | PRELIMINARY ZONING REVIEW RE-SUBMISSION | 08/02/23 |
| 0 | SPA PRE-CONSULTATION | 03/28/23 |

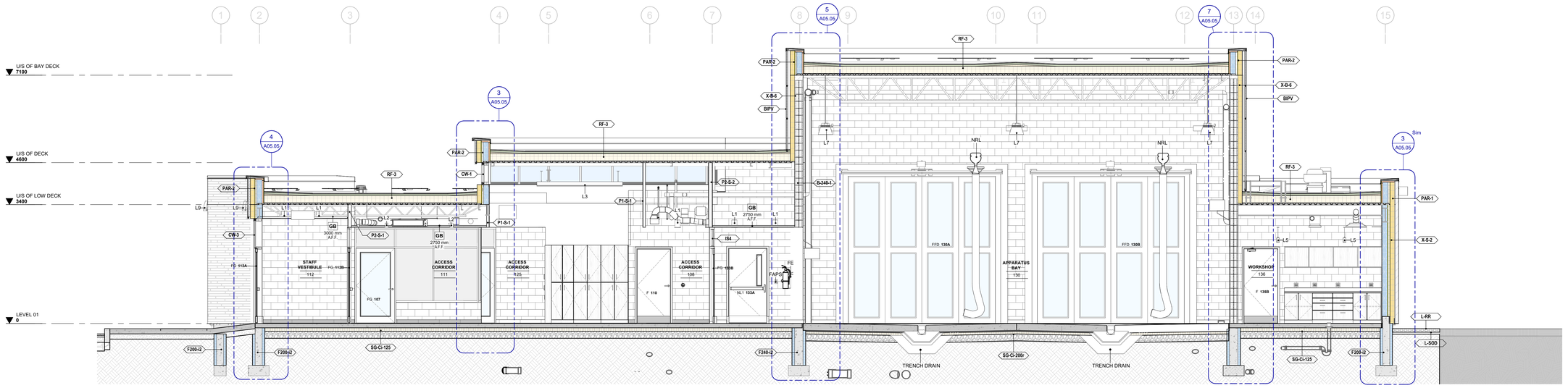
DRAWING TITLE:

## BUILDING SECTIONS

| | |
|---|---|
| ISSUE DATE: | 05/06/24 |
| DRAWN BY: SRL/AF | CHECKED BY: SRL |
| PROJECT NO.: 12301 | SCALE: 1 : 50 |
| DRAWING NO.: | REVISION: |

**A05.00** **10**

I PLOT DATE 2024-05-06 4:10:08 PM

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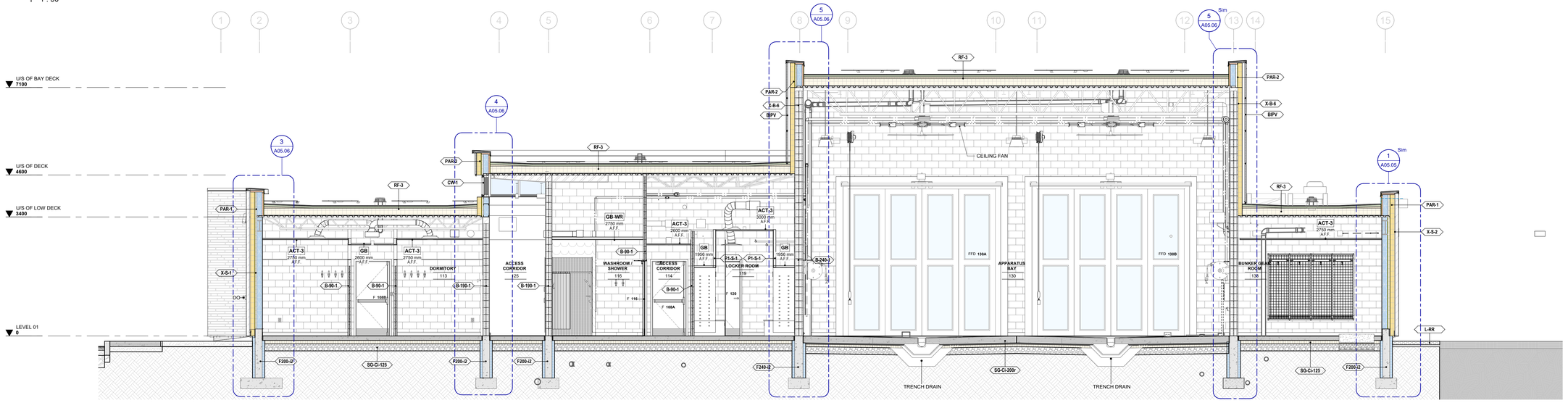


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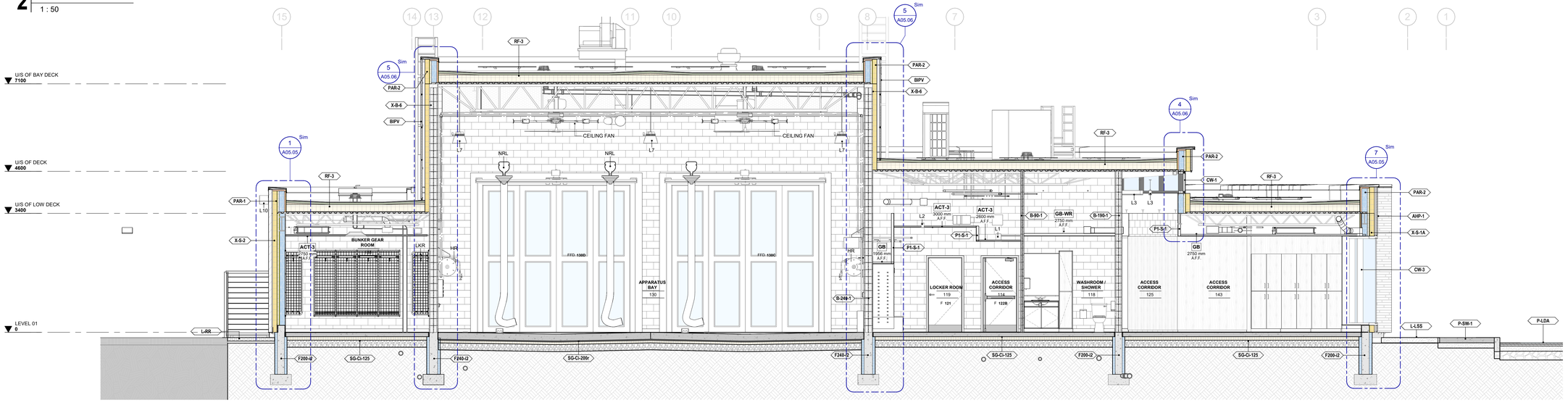


## 3 BUILDING SECTION 5
1 : 50

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MISSISSAUGA

# CITY OF MISSISSAUGA FIRE STATION 123

3050 THE COLLEGEWAY MISSISSAUGA, ONTARIO CANADA

| | |
|---|---|
| **SITE PLAN APPLICATION #** | SP 24-3 |
| **DEVELOPMENT TYPE** | EMERGENCY SERVICES |
| **LEGAL DESCRIPTION** | PART OF BLOCK 124 REGISTERED PLAN 43M-745 |
| **APPLICANT INFO** | DAVID PREMI, 25 MAIN ST. W, SUITE 1800, HAMILTON, ON L8P 1H1 905.522.0220 |
| **OWNER INFO** | CITY OF MISSISSAUGA, ADRIANA TANTALO, 300 CITY CENTRE DRIVE 905.615.3200 X 3395 |

| NO. | ISSUES/REVISIONS | DATE |
|---|---|---|
| 10 | TENDER | 05/06/24 |
| 9 | SPA RESUBMISSION | 03/12/24 |
| 8 | BP - RESUBMISSION | 02/23/24 |
| 7 | PERMIT | 01/22/24 |
| 6 | CLASS A ESTIMATE | 01/22/24 |
| 5 | 90% CD SUBMISSION | 1/22/24 |
| 4 | FORMAL SPA | 12/05/23 |
| 3 | MINOR VARIANCE APPLICATION | 09/08/23 |
| 2 | PAM 1 RE-SUBMISSION | 09/07/23 |
| 1 | PRELIMINARY ZONING REVIEW RE-SUBMISSION | 08/02/23 |
| 0 | SPA PRE-CONSULTATION | 03/28/23 |

DRAWING TITLE:

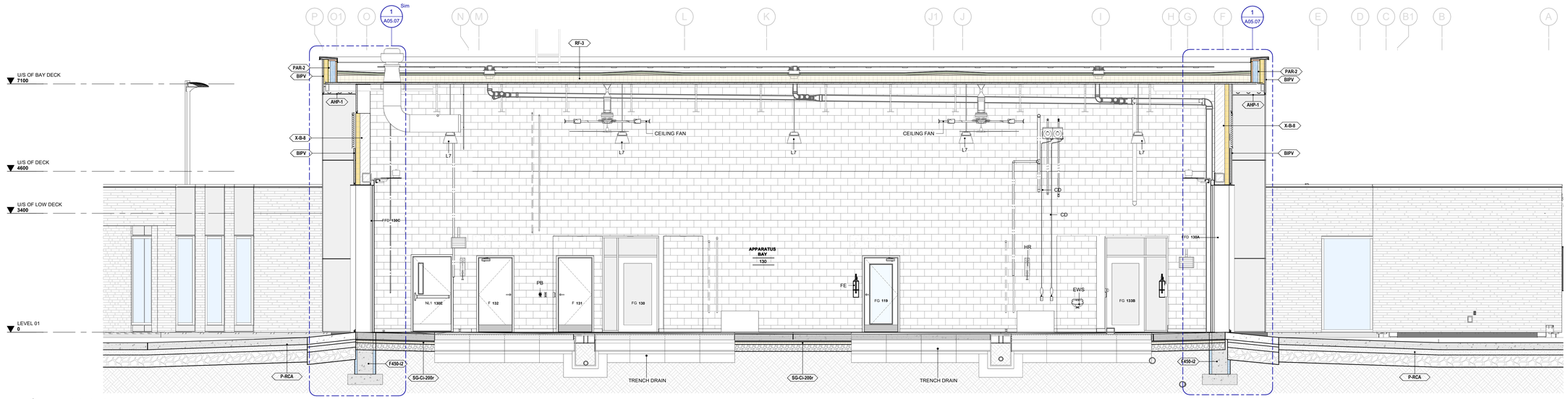
**BUILDING SECTIONS**

| | |
|---|---|
| ISSUE DATE: | 05/06/24 |
| DRAWN BY: SRL/AF | CHECKED BY: SRL |
| PROJECT NO.: 12301 | SCALE: 1 : 50 |

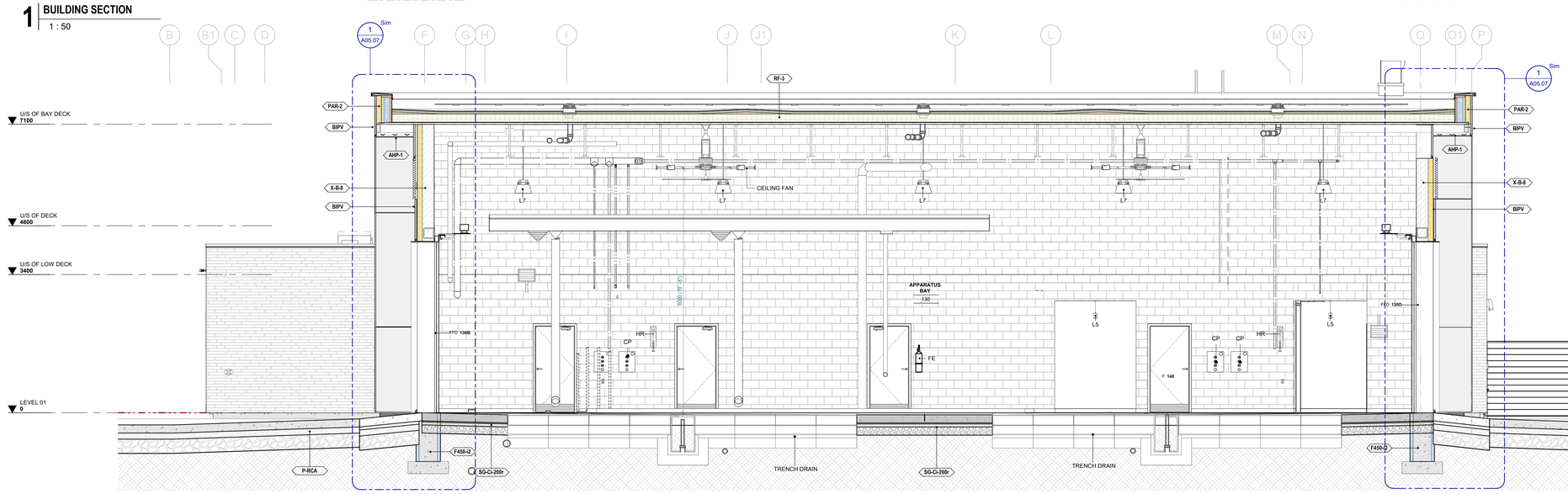
DRAWING NO.: **A05.01**

REVISION: **10**

PLOT DATE: 2024-05-05 4:53:8 PM




**1** BUILDING SECTION
1 : 50

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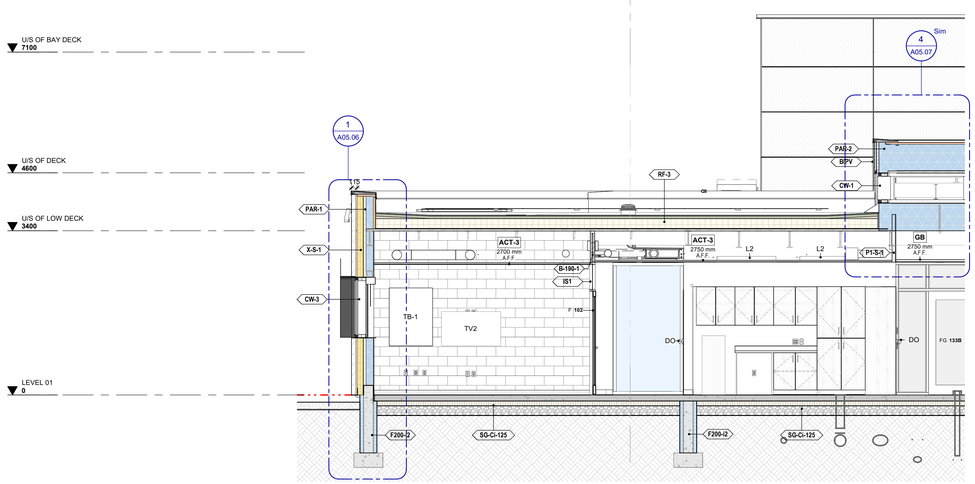


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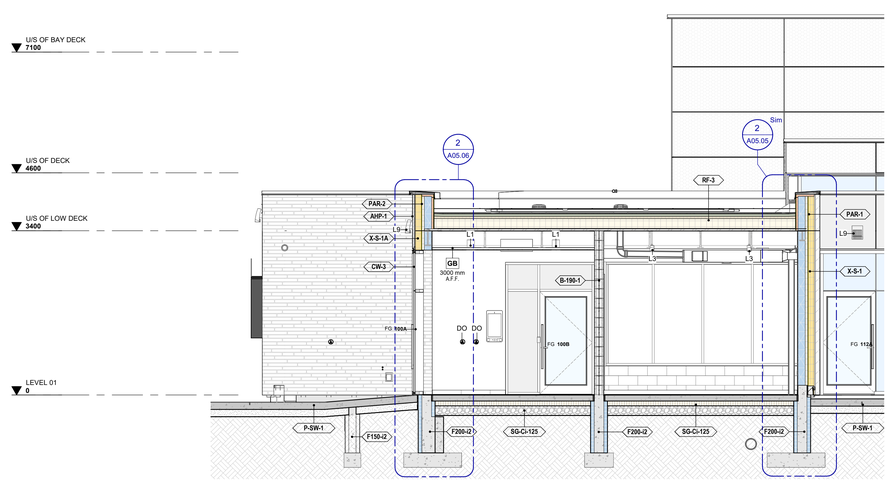


**4** BUILDING SECTION 12
1 : 50

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MISSISSAUGA

**CITY OF MISSISSAUGA FIRE STATION 123**

3050 THE COLLEGEWAY MISSISSAUGA, ONTARIO CANADA

| | |
|---|---|
| **SITE PLAN APPLICATION #** | SP 24-3 |
| **DEVELOPMENT TYPE** | EMERGENCY SERVICES |
| **LEGAL DESCRIPTION** | PART OF BLOCK 124 REGISTERED PLAN 43M-745 |
| **APPLICANT INFO** | DAVID PREMI, 25 MAIN ST. W, SUITE 1800, HAMILTON, ON L8P 1H1<br>905.522.0220 |
| **OWNER INFO** | CITY OF MISSISSAUGA, ADRIANA TANTALO, 300 CITY CENTRE DRIVE<br>905.615.3200 X 3395 |

| NO. | ISSUES/REVISIONS | DATE |
|---|---|---|
| 10 | TENDER | 05/06/24 |
| 9 | SPA RESUBMISSION | 03/12/24 |
| 8 | BP - RESUBMISSION | 02/23/24 |
| 7 | PERMIT | 01/22/24 |
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| 4 | FORMAL SPA | 12/05/23 |
| 3 | MINOR VARIANCE APPLICATION | 09/08/23 |
| 2 | PAM 1 RE-SUBMISSION | 09/07/23 |
| 1 | PRELIMINARY ZONING REVIEW RE-SUBMISSION | 08/02/23 |
| 0 | SPA PRE-CONSULTATION | 03/28/23 |

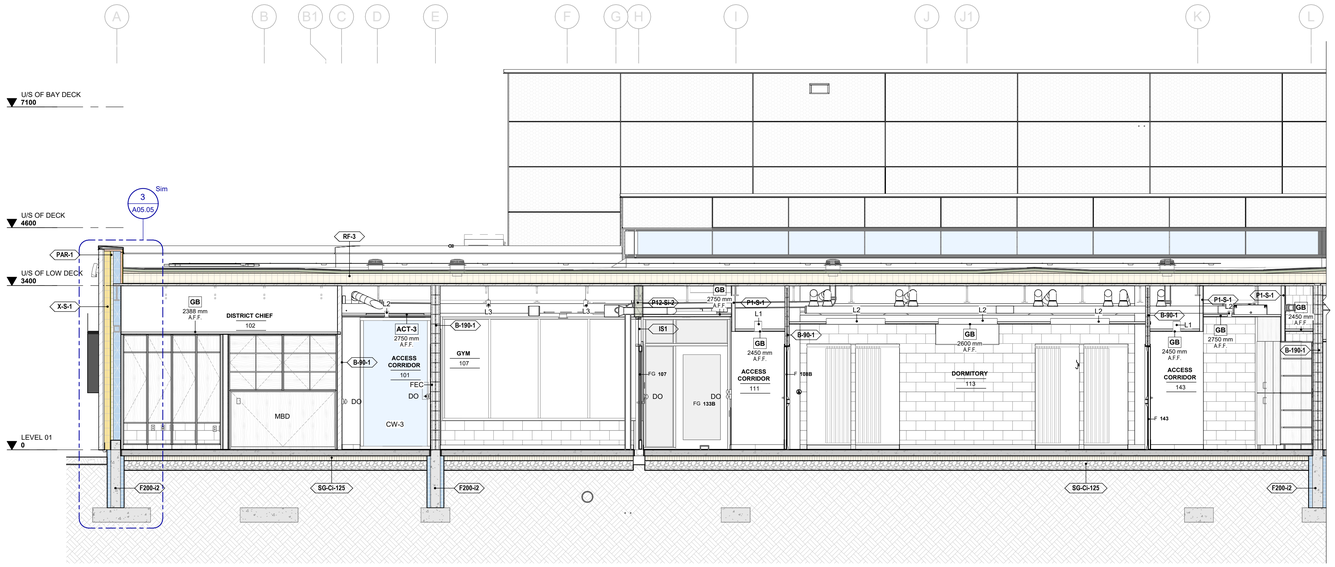
DRAWING TITLE:

**BUILDING SECTIONS**

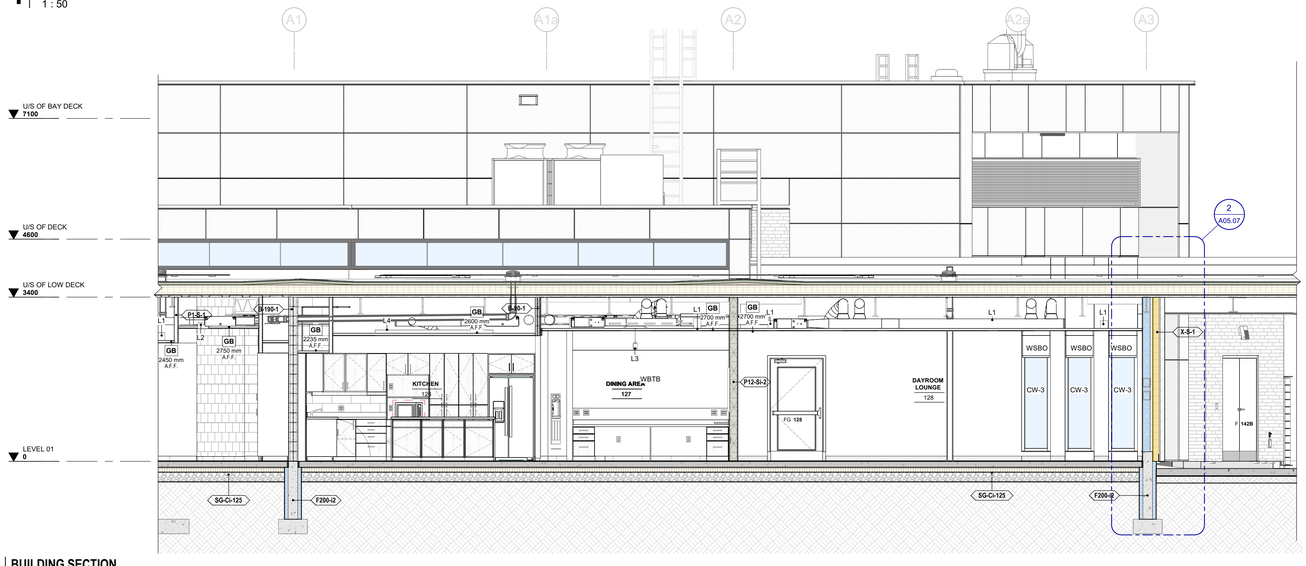
| | |
|---|---|
| ISSUE DATE: | 05/06/24 |
| DRAWN BY: SRL/AF | CHECKED BY: SRL |
| PROJECT NO.: 12301 | SCALE: 1 : 50 |
| DRAWING NO.: | REVISION: |

**A05.02** **10**

PLOT DATE: 2024-05-03 4:43:54 PM




**1** BUILDING SECTION
1 : 50

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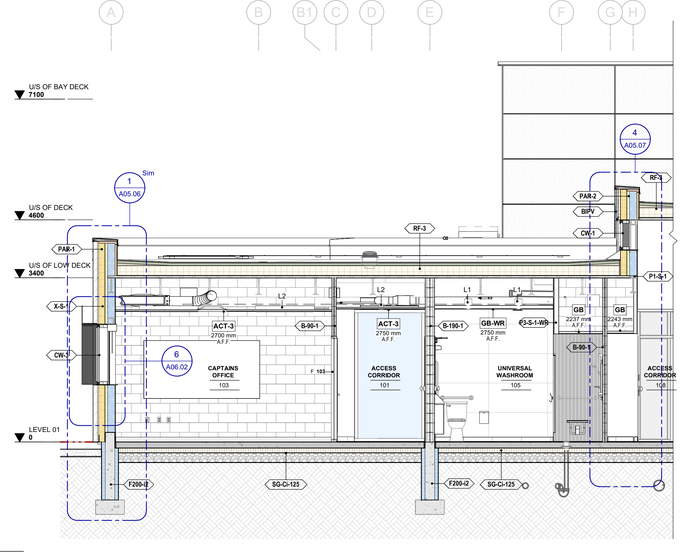
1 : 50




**3** BUILDING SECTION
1 : 50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MISSISSAUGA

**CITY OF MISSISSAUGA FIRE STATION 123**

3050 THE COLLEGEWAY MISSISSAUGA, ONTARIO CANADA

| | |
|---|---|
| **SITE PLAN APPLICATION #** | SP 24-3 |
| **DEVELOPMENT TYPE** | EMERGENCY SERVICES |
| **LEGAL DESCRIPTION** | PART OF BLOCK 124 REGISTERED PLAN 43M-745 |
| **APPLICANT INFO** | DAVID PREMI, 25 MAIN ST. W, SUITE 1800, HAMILTON, ON L8P 1H1<br>905.522.0220 |
| **OWNER INFO** | CITY OF MISSISSAUGA, ADRIANA TANTALO, 300 CITY CENTRE DRIVE<br>905.615.3200 X 3395 |

| NO. | ISSUES/REVISIONS | DATE |
|---|---|---|
| 1 | TENDER | 05/06/24 |
| 0 | BP - RESUBMISSION | 02/23/24 |

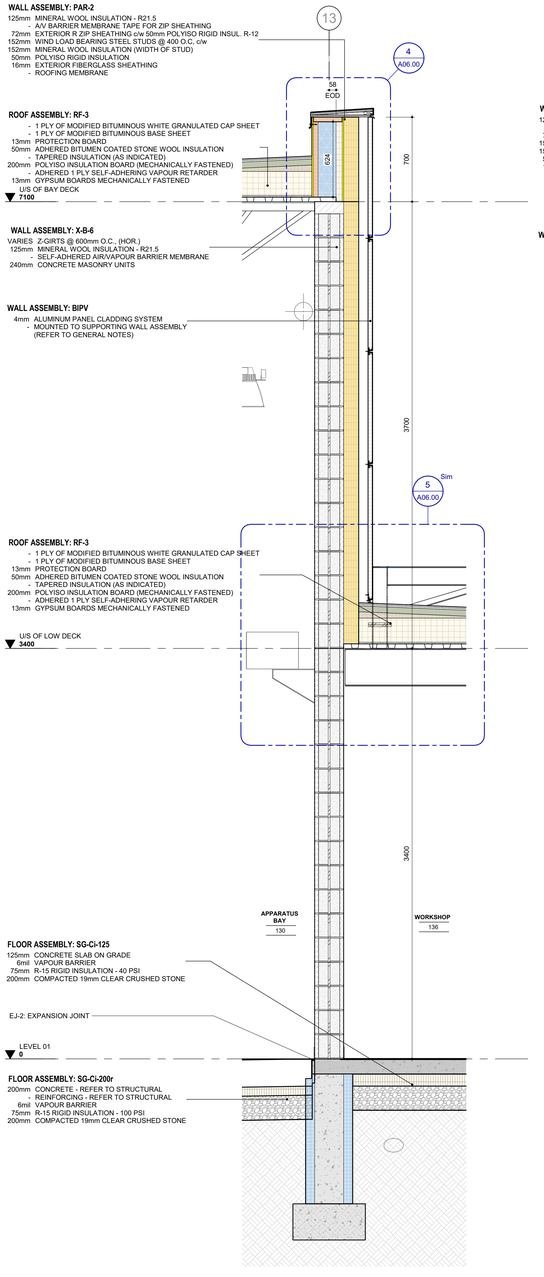
DRAWING TITLE:

**BUILDING SECTIONS**

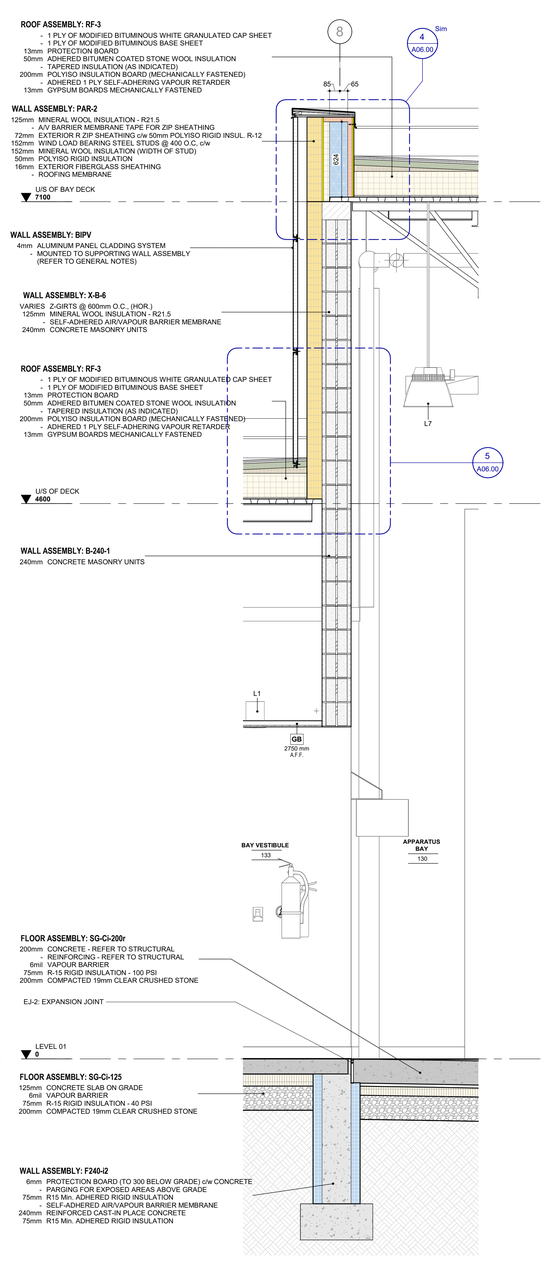
| | |
|---|---|
| ISSUE DATE: | 05/06/24 |
| DRAWN BY: Author | CHECKED BY:Checker |
| PROJECT NO.: 12301 | SCALE: 1 : 50 |
| DRAWING NO.: | REVISION: |

**A05.03** **1**

PLOT DATE: 2024-05-06 4:11:21 PM




## 7 WALL SECTION
1 : 20

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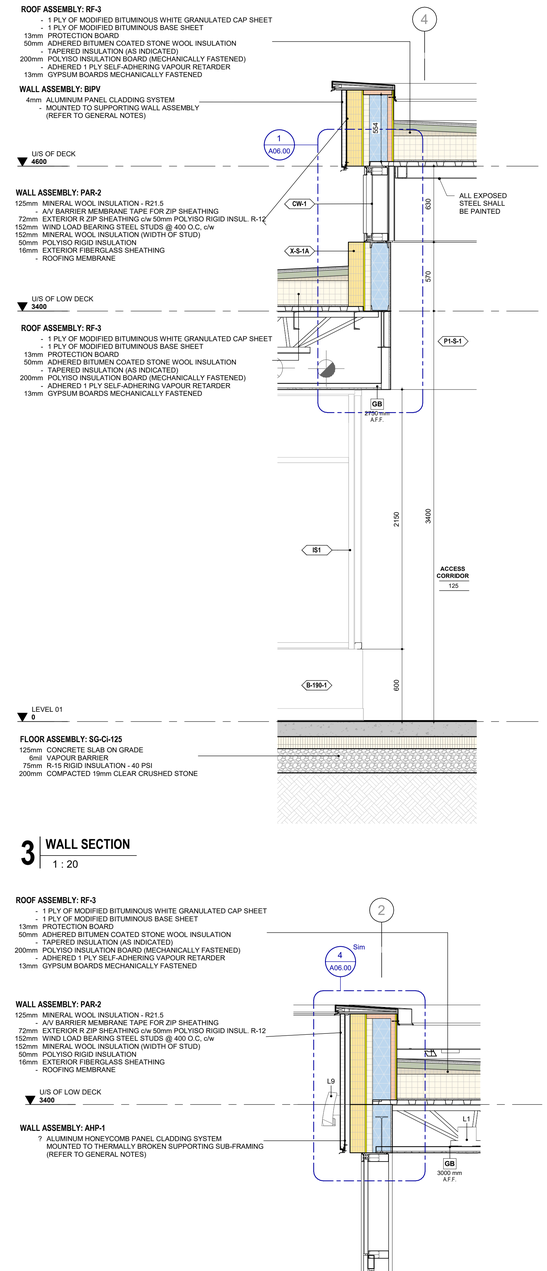
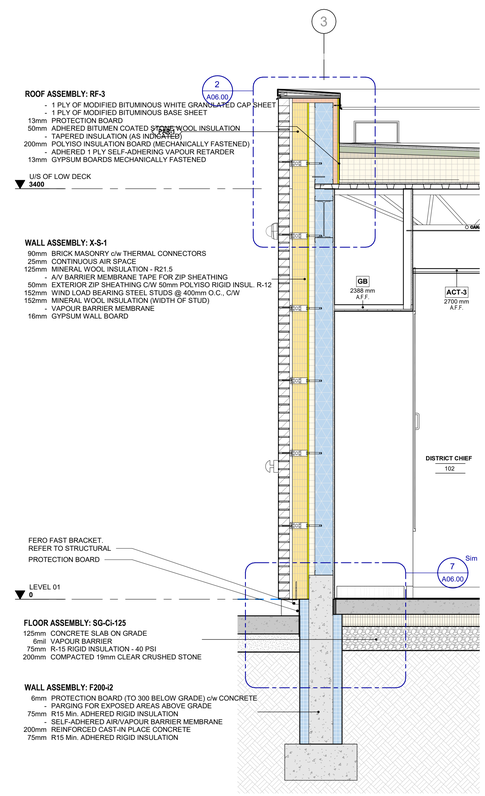
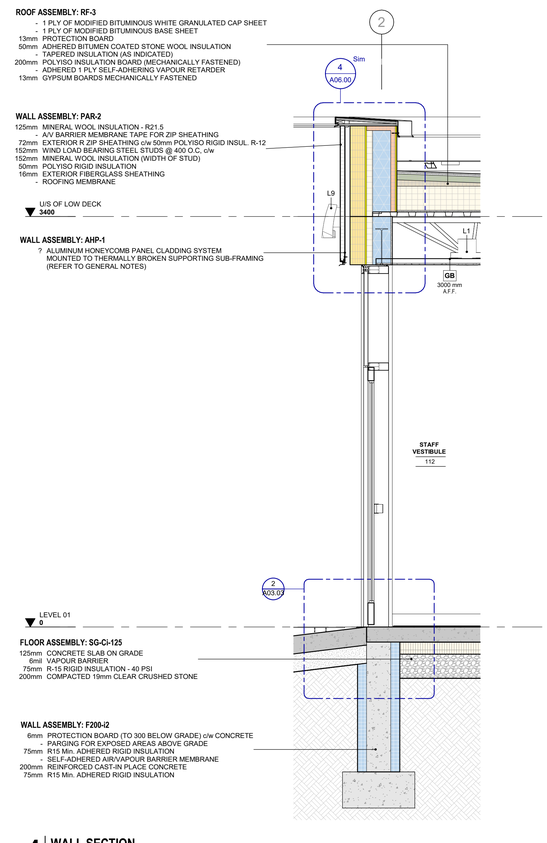
1 : 20




## 3 WALL SECTION
1 : 20




## 1 WALL SECTION
1 : 20

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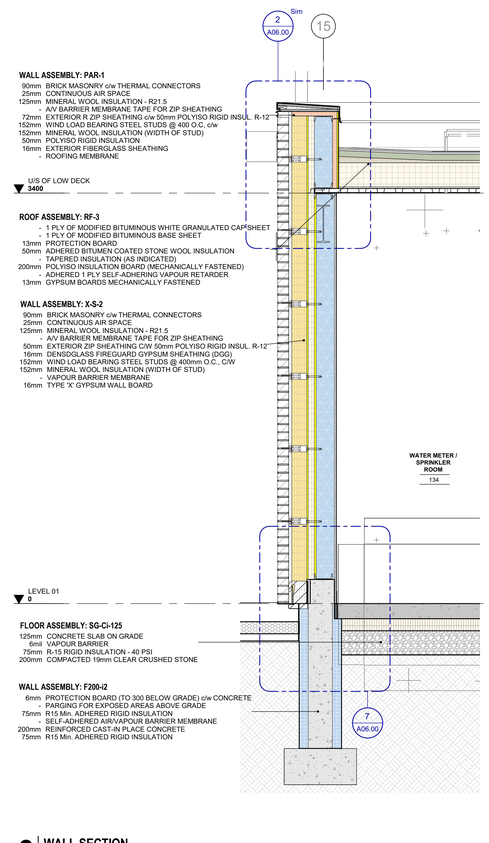
1 : 20




## 2 WALL SECTION
1 : 20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MISSISSAUGA

**CITY OF MISSISSAUGA FIRE STATION 123**

3050 THE COLLEGEWAY MISSISSAUGA, ONTARIO CANADA

| | |
|---|---|
| **SITE PLAN APPLICATION #** | SP 24-3 |
| **DEVELOPMENT TYPE** | EMERGENCY SERVICES |
| **LEGAL DESCRIPTION** | PART OF BLOCK 124 REGISTERED PLAN 43M-745 |
| **APPLICANT INFO** | DAVID PREMI, 25 MAIN ST. W, SUITE 1800, HAMILTON, ON L8P 1H1 905.522.0220 |
| **OWNER INFO** | CITY OF MISSISSAUGA, ADRIANA TANTALO, 300 CITY CENTRE DRIVE 905.615.3200 X 3395 |

| NO. | ISSUES/REVISIONS | DATE |
|---|---|---|
| 10 | TENDER | 05/06/24 |
| 9 | SPA RESUBMISSION | 03/12/24 |
| 8 | BP - RESUBMISSION | 02/23/24 |
| 7 | PERMIT | 01/22/24 |
| 6 | CLASS A ESTIMATE | 01/22/24 |
| 5 | 90% CD SUBMISSION | 1/22/24 |
| 4 | FORMAL SPA | 12/05/23 |
| 3 | MINOR VARIANCE APPLICATION | 09/08/23 |
| 2 | PAM 1 RE-SUBMISSION | 09/07/23 |
| 1 | PRELIMINARY ZONING REVIEW RE-SUBMISSION | 08/02/23 |
| 0 | SPA PRE-CONSULTATION | 03/28/23 |

DRAWING TITLE:

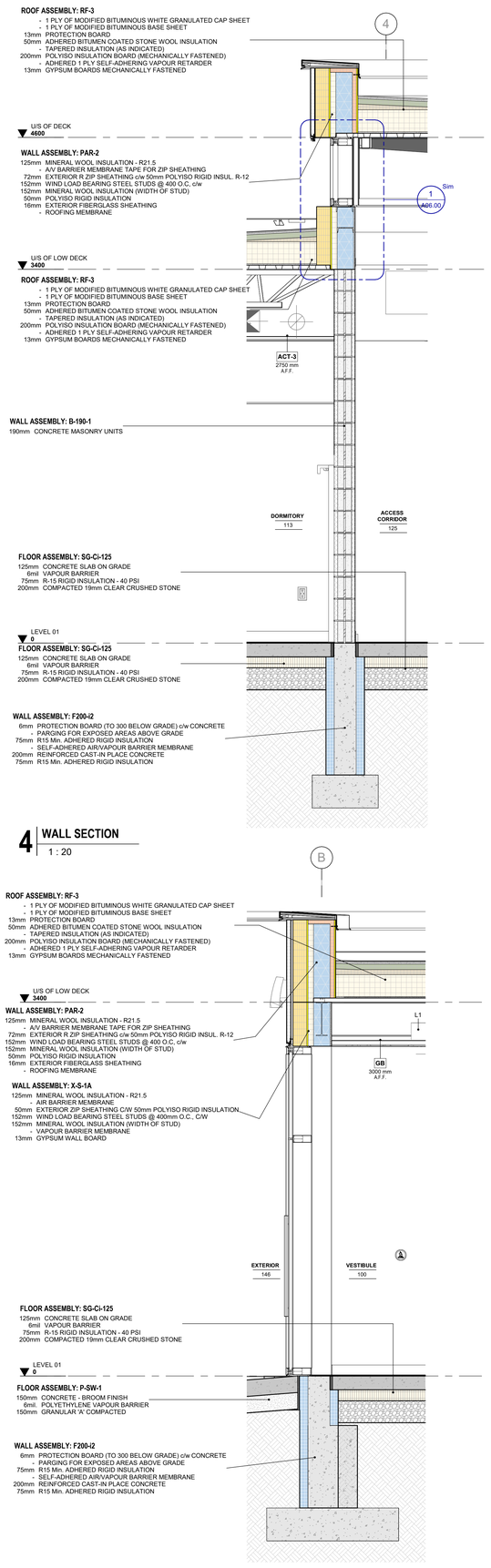
**WALL SECTIONS**

| | |
|---|---|
| ISSUE DATE: | 05/06/24 |
| DRAWN BY: SRL/AF | CHECKED BY: SRL |
| PROJECT NO.: 12301 | SCALE: 1 : 20 |

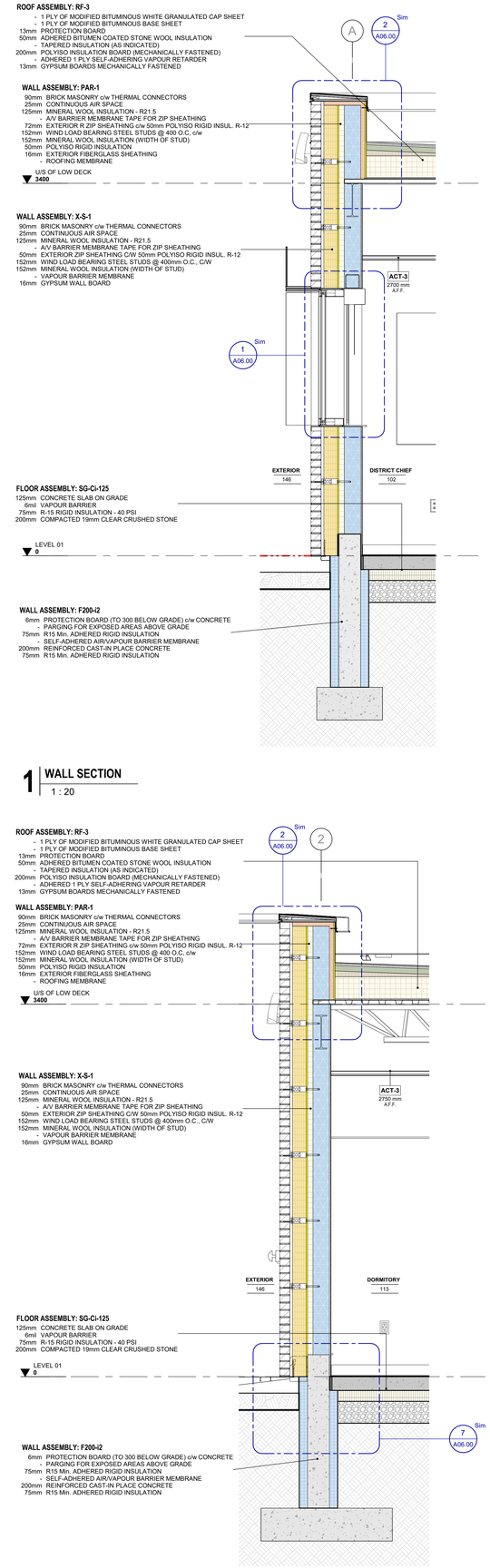
DRAWING NO.: **A05.05**

REVISION: **10**

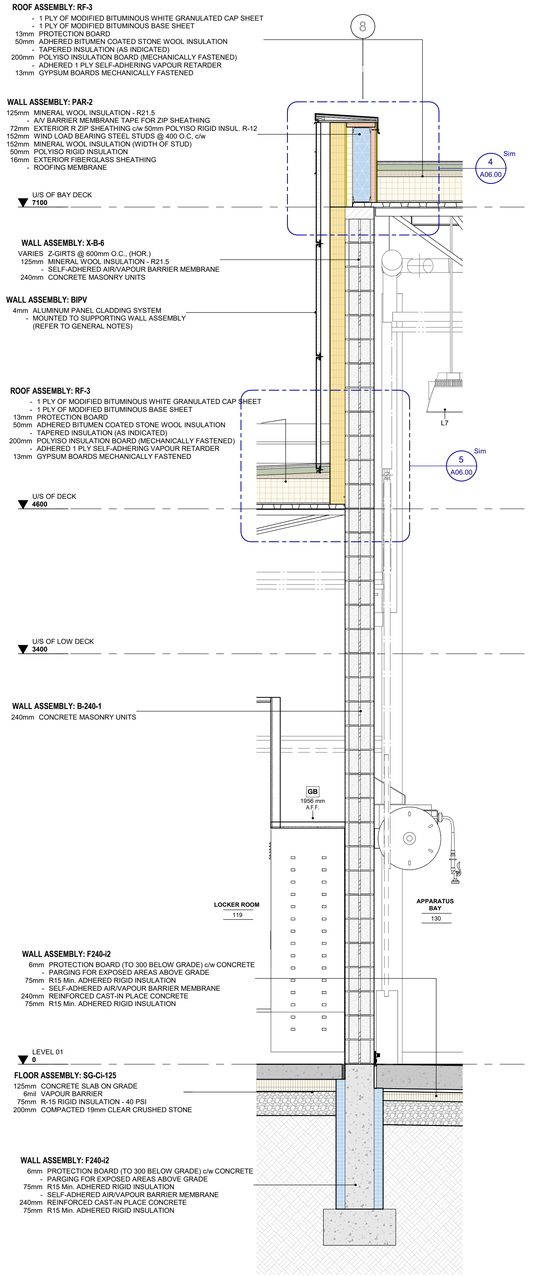

PLOT DATE 2024-06-06 4:11:30 PM

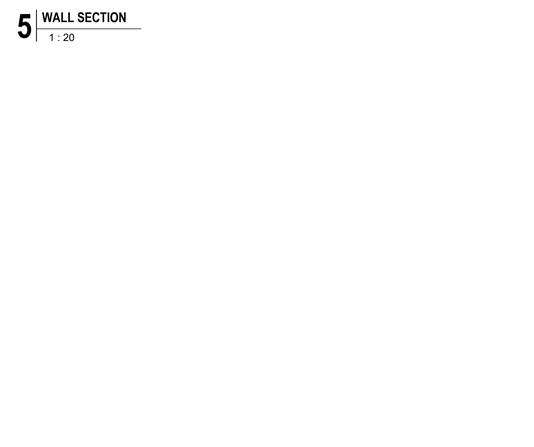



## 4 WALL SECTION
1 : 20




## 1 WALL SECTION
1 : 20




## 5 WALL SECTION
1 : 20




## 2 WALL SECTION
1 : 20




## 3 WALL SECTION
1 : 20

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SEALS

ONTARIO ASSOCIATION OF ARCHITECTS
DAVID PREMI
LICENCE
4316

MISSISSAUGA

**CITY OF MISSISSAUGA FIRE STATION 123**

3050 THE COLLEGEWAY MISSISSAUGA, ONTARIO CANADA

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| NO. | ISSUES/REVISIONS | DATE |
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| 1 | TENDER | 05/06/24 |
| 0 | BP - RESUBMISSION | 02/23/24 |

DRAWING TITLE:

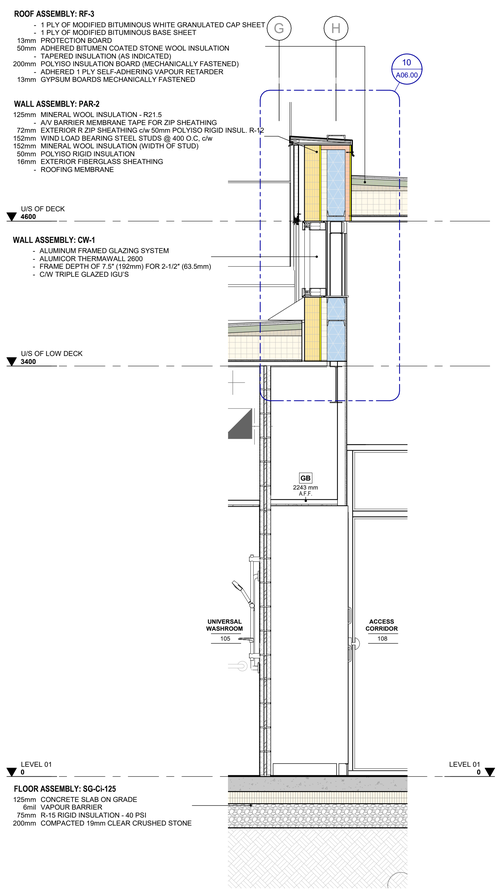
**WALL SECTIONS**

| | |
|---|---|
| ISSUE DATE: | 05/06/24 |
| DRAWN BY: AR | CHECKED BY: SRL |
| PROJECT NO.: 12301 | SCALE: 1 : 20 |

DRAWING NO.: **A05.06**

REVISION: **1**

PLOT DATE: 2024-06-05 11:38:11 AM




**ROOF ASSEMBLY: RF-3**
- 1 PLY OF MODIFIED BITUMINOUS WHITE GRANULATED CAP SHEET
- 1 PLY OF MODIFIED BITUMINOUS BASE SHEET

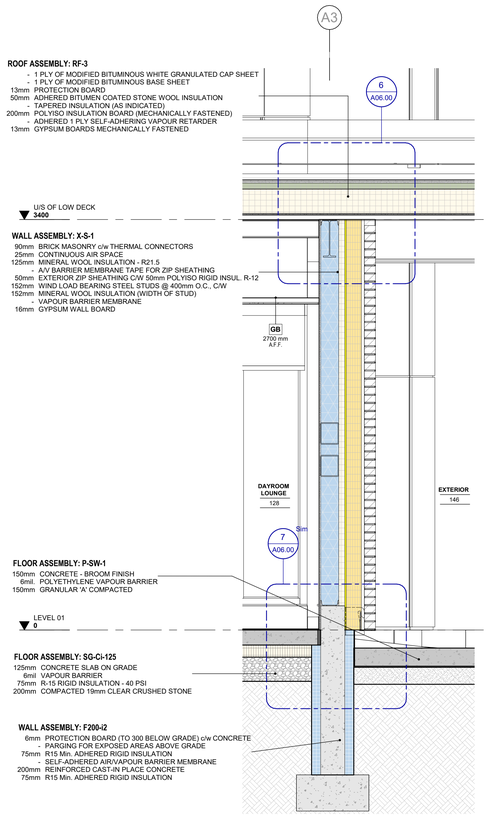
13mm PROTECTION BOARD
50mm ADHERED BITUMEN COATED STONE WOOL INSULATION
- TAPERED INSULATION (AS INDICATED)
200mm POLYISO INSULATION BOARD (MECHANICALLY FASTENED)
- ADHERED 1 PLY SELF-ADHERING VAPOUR RETARDER
13mm GYPSUM BOARDS MECHANICALLY FASTENED

**WALL ASSEMBLY: PAR-2**
125mm MINERAL WOOL INSULATION - R21.5
- A/V BARRIER MEMBRANE TAPE FOR ZIP SHEATHING
72mm EXTERIOR R ZIP SHEATHING c/w 50mm POLYISO RIGID INSUL. R-12
152mm WIND LOAD BEARING STEEL STUDS @ 400 O.C. c/w
152mm MINERAL WOOL INSULATION (WIDTH OF STUD)
50mm POLYISO RIGID INSULATION
16mm EXTERIOR FIBERGLASS SHEATHING
- ROOFING MEMBRANE

**WALL ASSEMBLY: CW-1**
- ALUMINUM FRAMED GLAZING SYSTEM
- ALUMICOR THERMAWALL 2600
- FRAME DEPTH OF 7.5" (192mm) FOR 2-1/2" (63.5mm)
- C/W TRIPLE GLAZED IGU'S

**FLOOR ASSEMBLY: SG-Ci-125**
125mm CONCRETE SLAB ON GRADE
6mil VAPOUR BARRIER
75mm R-15 RIGID INSULATION - 40 PSI
200mm COMPACTED 19mm CLEAR CRUSHED STONE

## 4 WALL SECTION
1 : 20




**ROOF ASSEMBLY: RF-3**
- 1 PLY OF MODIFIED BITUMINOUS WHITE GRANULATED CAP SHEET
- 1 PLY OF MODIFIED BITUMINOUS BASE SHEET

13mm PROTECTION BOARD
50mm ADHERED BITUMEN COATED STONE WOOL INSULATION
- TAPERED INSULATION (AS INDICATED)
200mm POLYISO INSULATION BOARD (MECHANICALLY FASTENED)
- ADHERED 1 PLY SELF-ADHERING VAPOUR RETARDER
13mm GYPSUM BOARDS MECHANICALLY FASTENED

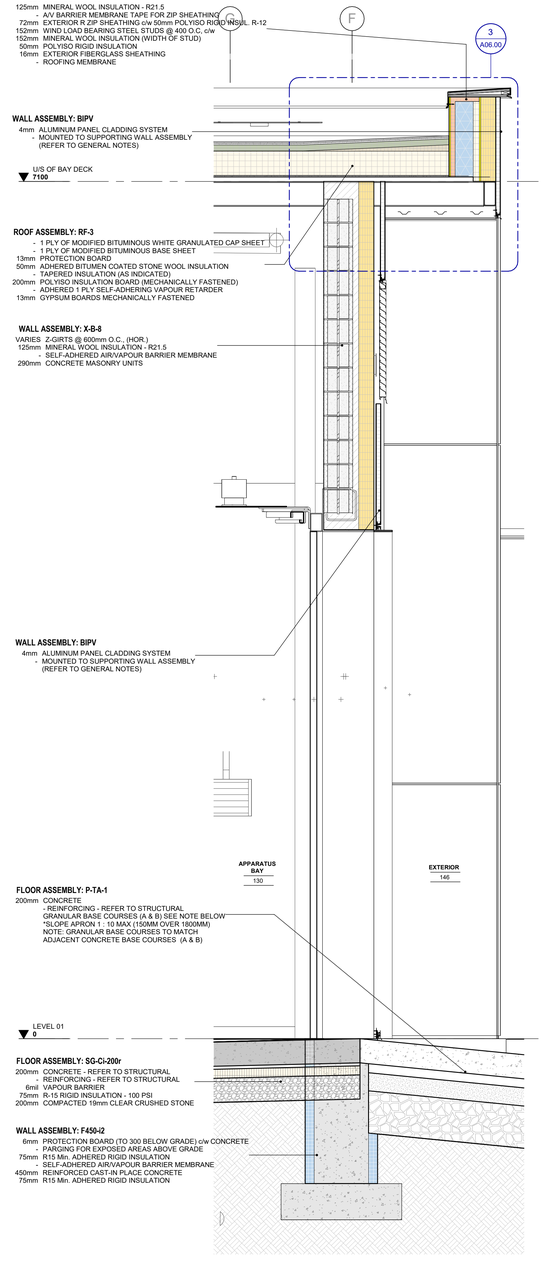
**WALL ASSEMBLY: X-S-1**
90mm BRICK MASONRY c/w THERMAL CONNECTORS
25mm CONTINUOUS AIR SPACE
125mm MINERAL WOOL INSULATION - R21.5
- A/V BARRIER MEMBRANE TAPE FOR ZIP SHEATHING
50mm EXTERIOR ZIP SHEATHING C/W 50mm POLYISO RIGID INSUL. R-12
152mm WIND LOAD BEARING STEEL STUDS @ 400mm O.C., C/W
152mm MINERAL WOOL INSULATION (WIDTH OF STUD)
- VAPOUR BARRIER MEMBRANE
16mm GYPSUM WALL BOARD

**FLOOR ASSEMBLY: P-SW-1**
150mm CONCRETE - BROOM FINISH
6mil POLYETHYLENE VAPOUR BARRIER
150mm GRANULAR 'A' COMPACTED

**FLOOR ASSEMBLY: SG-Ci-125**
125mm CONCRETE SLAB ON GRADE
6mil VAPOUR BARRIER
75mm R-15 RIGID INSULATION - 40 PSI
200mm COMPACTED 19mm CLEAR CRUSHED STONE

**WALL ASSEMBLY: F200-i2**
6mm PROTECTION BOARD (TO 300 BELOW GRADE) c/w CONCRETE
- PARGING FOR EXPOSED AREAS ABOVE GRADE
75mm R15 Min. ADHERED RIGID INSULATION
- SELF-ADHERED AIR/VAPOUR BARRIER MEMBRANE
200mm REINFORCED CAST-IN PLACE CONCRETE
75mm R15 Min. ADHERED RIGID INSULATION

## 2 WALL SECTION
1 : 20




**WALL ASSEMBLY: PAR-2**
125mm MINERAL WOOL INSULATION - R21.5
- A/V BARRIER MEMBRANE TAPE FOR ZIP SHEATHING
72mm EXTERIOR R ZIP SHEATHING c/w 50mm POLYISO RIGID INSUL. R-12
152mm WIND LOAD BEARING STEEL STUDS @ 400 O.C. c/w
152mm MINERAL WOOL INSULATION (WIDTH OF STUD)
50mm POLYISO RIGID INSULATION
16mm EXTERIOR FIBERGLASS SHEATHING
- ROOFING MEMBRANE

**WALL ASSEMBLY: BIPV**
4mm ALUMINUM PANEL CLADDING SYSTEM
- MOUNTED TO SUPPORTING WALL ASSEMBLY (REFER TO GENERAL NOTES)

U/S OF BAY DECK
7100

**ROOF ASSEMBLY: RF-3**
- 1 PLY OF MODIFIED BITUMINOUS WHITE GRANULATED CAP SHEET
- 1 PLY OF MODIFIED BITUMINOUS BASE SHEET

13mm PROTECTION BOARD
50mm ADHERED BITUMEN COATED STONE WOOL INSULATION
- TAPERED INSULATION (AS INDICATED)
200mm POLYISO INSULATION BOARD (MECHANICALLY FASTENED)
- ADHERED 1 PLY SELF-ADHERING VAPOUR RETARDER
13mm GYPSUM BOARDS MECHANICALLY FASTENED

**WALL ASSEMBLY: X-B-8**
VARIES Z-GIRTS @ 600mm O.C., (HOR.)
125mm MINERAL WOOL INSULATION - R21.5
- SELF-ADHERED AIR/VAPOUR BARRIER MEMBRANE
290mm CONCRETE MASONRY UNITS

**WALL ASSEMBLY: BIPV**
4mm ALUMINUM PANEL CLADDING SYSTEM
- MOUNTED TO SUPPORTING WALL ASSEMBLY (REFER TO GENERAL NOTES)

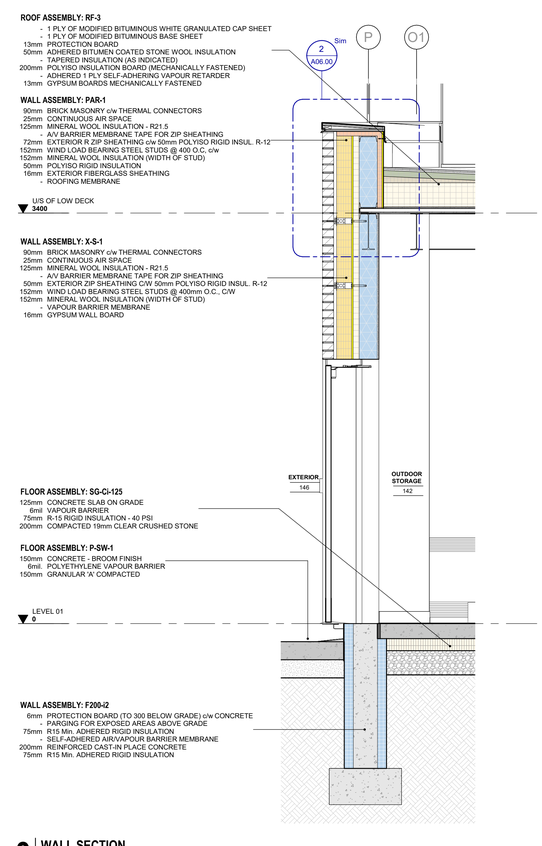
**FLOOR ASSEMBLY: P-TA-1**
200mm CONCRETE
- REINFORCING - REFER TO STRUCTURAL GRANULAR BASE COURSES (A & B) SEE NOTE BELOW
*SLOPE APRON 1 : 10 MAX (150MM OVER 1800MM)
NOTE: GRANULAR BASE COURSES TO MATCH ADJACENT CONCRETE BASE COURSES (A & B)

LEVEL 01
0

**FLOOR ASSEMBLY: SG-Ci-200r**
200mm CONCRETE - REFER TO STRUCTURAL
- REINFORCING - REFER TO STRUCTURAL
6mil VAPOUR BARRIER
75mm R-15 RIGID INSULATION - 100 PSI
200mm COMPACTED 19mm CLEAR CRUSHED STONE

**WALL ASSEMBLY: F450-i2**
6mm PROTECTION BOARD (TO 300 BELOW GRADE) c/w CONCRETE
- PARGING FOR EXPOSED AREAS ABOVE GRADE
75mm R15 Min. ADHERED RIGID INSULATION
- SELF-ADHERED AIR/VAPOUR BARRIER MEMBRANE
450mm REINFORCED CAST-IN PLACE CONCRETE
75mm R15 Min. ADHERED RIGID INSULATION

## 1 WALL SECTION
1 : 20




**ROOF ASSEMBLY: RF-3**
- 1 PLY OF MODIFIED BITUMINOUS WHITE GRANULATED CAP SHEET
- 1 PLY OF MODIFIED BITUMINOUS BASE SHEET

13mm PROTECTION BOARD
50mm ADHERED BITUMEN COATED STONE WOOL INSULATION
- TAPERED INSULATION (AS INDICATED)
200mm POLYISO INSULATION BOARD (MECHANICALLY FASTENED)
- ADHERED 1 PLY SELF-ADHERING VAPOUR RETARDER
13mm GYPSUM BOARDS MECHANICALLY FASTENED

**WALL ASSEMBLY: PAR-1**
90mm BRICK MASONRY c/w THERMAL CONNECTORS
25mm CONTINUOUS AIR SPACE
125mm MINERAL WOOL INSULATION - R21.5
- A/V BARRIER MEMBRANE TAPE FOR ZIP SHEATHING
72mm EXTERIOR R ZIP SHEATHING c/w 50mm POLYISO RIGID INSUL. R-12
152mm WIND LOAD BEARING STEEL STUDS @ 400 O.C. c/w
152mm MINERAL WOOL INSULATION (WIDTH OF STUD)
50mm POLYISO RIGID INSULATION
16mm EXTERIOR FIBERGLASS SHEATHING
- ROOFING MEMBRANE

U/S OF LOW DECK
3400

**WALL ASSEMBLY: X-S-1**
90mm BRICK MASONRY c/w THERMAL CONNECTORS
25mm CONTINUOUS AIR SPACE
125mm MINERAL WOOL INSULATION - R21.5
- A/V BARRIER MEMBRANE TAPE FOR ZIP SHEATHING
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152mm WIND LOAD BEARING STEEL STUDS @ 400mm O.C., C/W
152mm MINERAL WOOL INSULATION (WIDTH OF STUD)
- VAPOUR BARRIER MEMBRANE
16mm GYPSUM WALL BOARD

**FLOOR ASSEMBLY: SG-Ci-125**
125mm CONCRETE SLAB ON GRADE
6mil VAPOUR BARRIER
75mm R-15 RIGID INSULATION - 40 PSI
200mm COMPACTED 19mm CLEAR CRUSHED STONE

**FLOOR ASSEMBLY: P-SW-1**
150mm CONCRETE - BROOM FINISH
6mil. POLYETHYLENE VAPOUR BARRIER
150mm GRANULAR 'A' COMPACTED

LEVEL 01
0

**WALL ASSEMBLY: F200-i2**
6mm PROTECTION BOARD (TO 300 BELOW GRADE) c/w CONCRETE
- PARGING FOR EXPOSED AREAS ABOVE GRADE
75mm R15 Min. ADHERED RIGID INSULATION
- SELF-ADHERED AIR/VAPOUR BARRIER MEMBRANE
200mm REINFORCED CAST-IN PLACE CONCRETE
75mm R15 Min. ADHERED RIGID INSULATION

## 3 WALL SECTION
1 : 20


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SEALS

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DAVID PREMI
LICENCE
4315

MISSISSAUGA

# CITY OF MISSISSAUGA FIRE STATION 123

3050 THE COLLEGEWAY MISSISSAUGA, ONTARIO CANADA

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| **SITE PLAN APPLICATION #** | SP 24-3 |
| **DEVELOPMENT TYPE** | EMERGENCY SERVICES |
| **LEGAL DESCRIPTION** | PART OF BLOCK 124 REGISTERED PLAN 43M-745 |
| **APPLICANT INFO** | DAVID PREMI, 25 MAIN ST. W, SUITE 1800, HAMILTON, ON L8P 1H1<br>905.522.0220 |
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DRAWING TITLE:

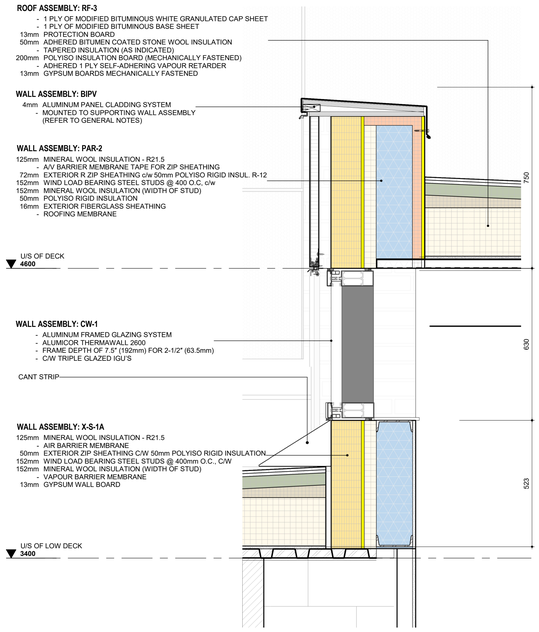
**WALL SECTIONS**

| | | | |
|---|---|---|---|
| ISSUE DATE: | 05/06/24 | | |
| DRAWN BY: | SRL/AF | CHECKED BY: | SRL |
| PROJECT NO.: | 12301 | SCALE: | 1 : 20 |

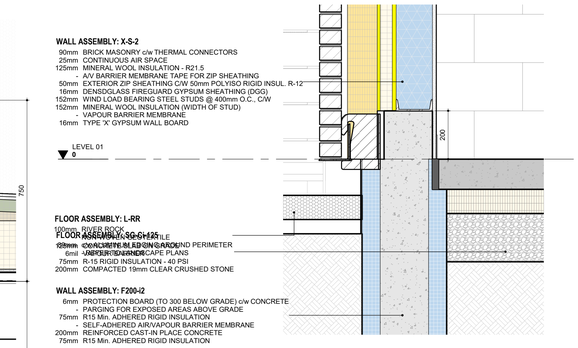
DRAWING NO.: **A05.07**

REVISION: **10**


PLOT DATE 2024-06-06 11:46




## 10 SECTION DETAIL
1 : 10

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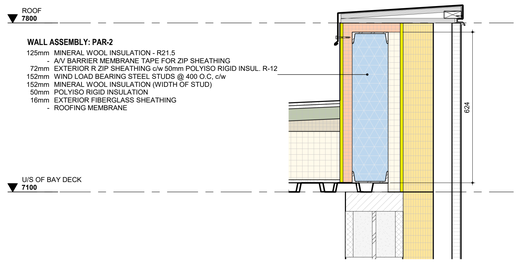


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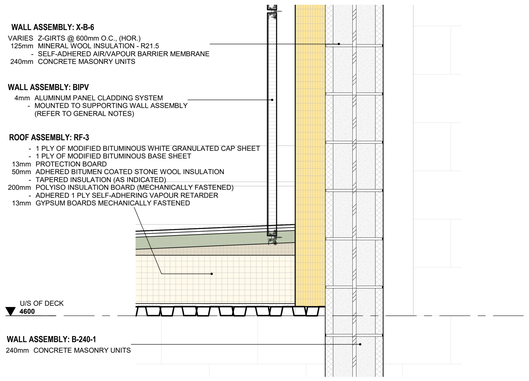


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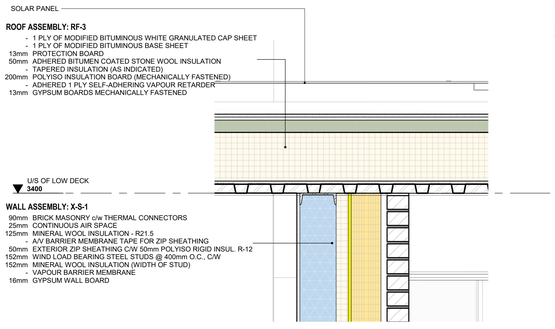
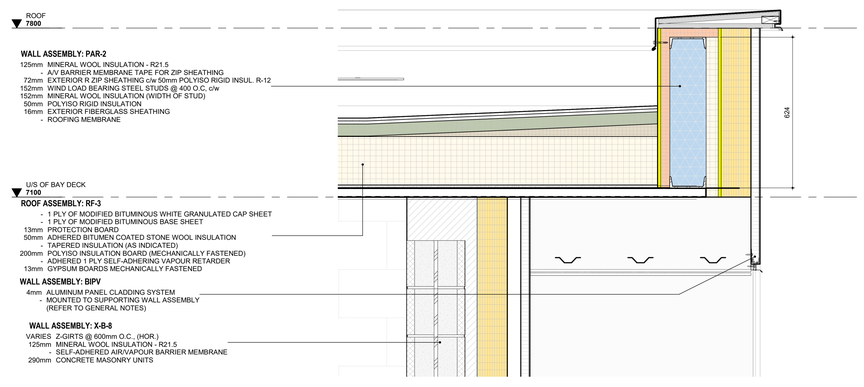
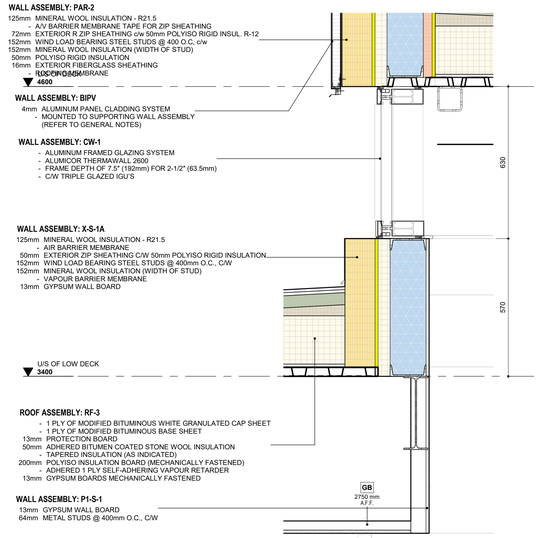
1 : 10



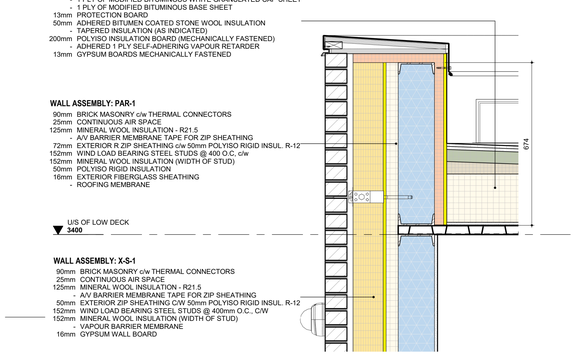

## 6 SECTION DETAIL
1 : 10




## 3 SECTION DETAIL
1 : 10




## 1 SECTION DETAIL
1 : 10




## 2 SECTION DETAIL
1 : 10

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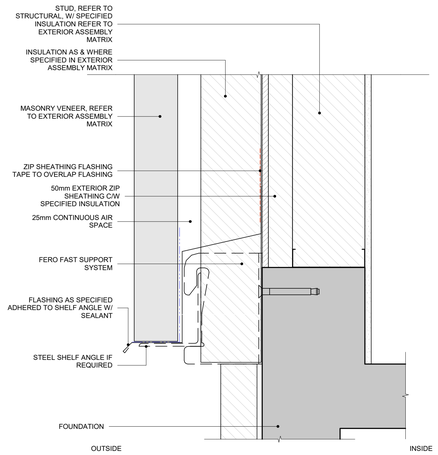
DRAWING TITLE:

**SECTION DETAILS**

| | |
|---|---|
| ISSUE DATE: | 05/06/24 |
| DRAWN BY: AR | CHECKED BY: SL |
| PROJECT NO.: 12301 | SCALE: 1 : 10 |

DRAWING NO.: **A06.00** REVISION: **1**

PLOT DATE: 2024-06-05 4:12:04 PM



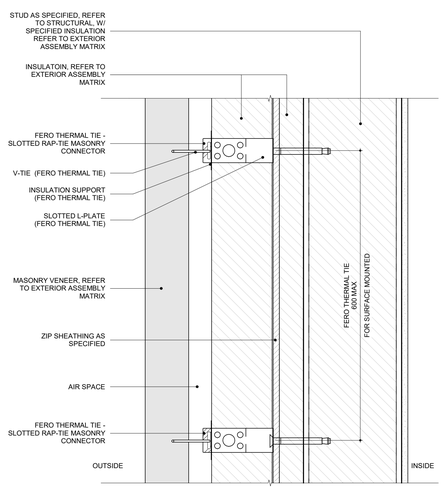

**FOUNDATION SECTION VIEW**

***NOTES:***

1. FAST THERMAL BRACKET TO NOT EXCEED MAXIMUM SPACING LISTED IN FERO PUBLISHED LOAD TABLE AND TECHNICAL INFORMATION, UNLESS DIRECTED OTHERWISE.
2. FAST THERMAL BRACKET DEPTH TO FILL WALL CAVITY OR AS SHOWN IN CONSTRUCTION DOCUMENTS, REFER TO EXTERIOR ASSEMBLY MATRIX.
3. FAST THERMAL BRACKET HEIGHT TO MEET ANCHOR TO SHELF AND DISTANCE.
4. FERO SHIM PLATES TO BE USED FOR MEETING CONSTRUCTION TOLERANCES.
5. INSTALLER TO INSTALL SYSTEM IN COMPLIANCE WITH PRODUCTS TECHNICAL DOCUMENTATION. REFER TO INSTALLATION MANUAL.
6. WEDGE SHIMS INSERTED BEHIND/FRONT OF ANGLE TO ENSURE DIRECT BEARING ON BRACKET AND PROVIDE LEVEL (IF NECESSARY).

## 3 FERO FAST THERMAL BRACKET DETAIL

1 : 5



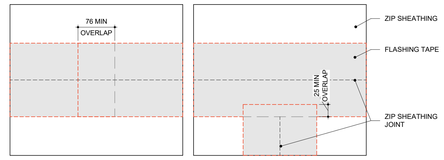

**WALL SECTION VIEW - SURFACE MOUNTED APPLICATION**

***NOTES:***

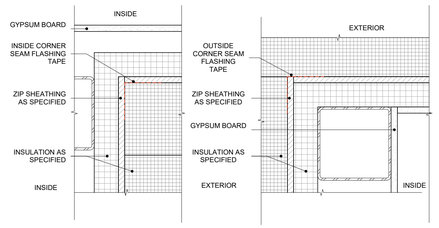
1. SLOTTED RAP-TIE MASONRY CONNECTOR AFFIXED AS SPECIFIED (TO A STRUCTURAL BACKING STUD DIRECTLY, OR BY SURFACE MOUNTING TO ANY SHEATHING SITTING OVER THE STUD).
2. WHERE VERTICAL ADJUSTMENT GREATER THAN 30MM IS REQUIRED, USE OF THE SLOTTED HEAVY-DUTY RAP-TIE SHOULD BE CONSIDERED.
3. FERO MAXIMUM RECOMMENDED SPACING IS 600MM VERTICAL FOR SURFACE MOUNT APPLICATION AND 820MM VERTICAL FOR DIRECT STUD MOUNT APPLICATION.
4. REFER TO SPECIFICATIONS AND PRODUCT INSTALLATION MANUAL.

## 4 FERO THERMAL TIE DETAILS

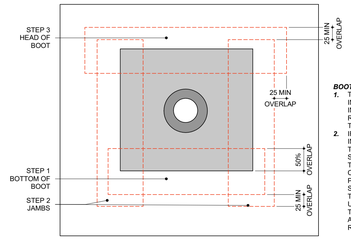
1 : 5




**ELEVATION VIEW**



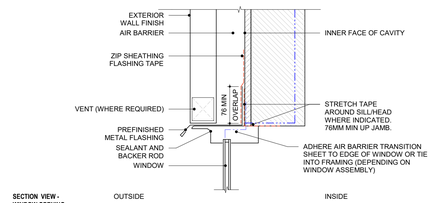

**PLAN VIEW**



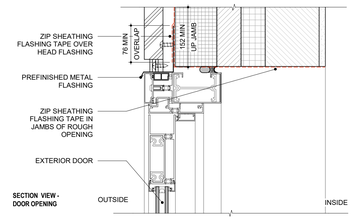

**BOOT FLASHING ELEVATION VIEW**

***BOOT FLASHING NOTES:***

1. TAPE TO OVERLAP AS INDICATED AND APPLIED IN CORRECT ORDER. ROLL ALL PIECES OF TAPE.
2. IF USING STRETCH TAPE INSTEAD OF FLASHING TAPE SHOWN HERE, START THE TAPE FROM THE TOP OF THE PIPE. CENTER THE TAPE AND PULL DOWN ON EITHER SIDE OF THE PIPE. PULL THE TAPE TOGETHER UNTIL IT OVERLAPS IN THE MIDDLE OF THE PIPE AT THE BOTTOM, THEN ROLL THE TAPE.




**SECTION VIEW - WINDOW OPENING**



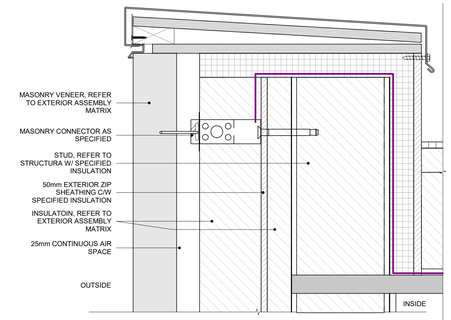

**SECTION VIEW - DOOR OPENING**

***EXECUTION NOTES:***

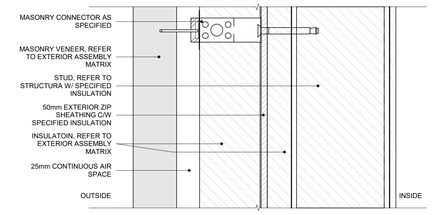
1. ZIP SHEATHING FLASHING TAPE TO BE LOCATED OVER EXTERIOR AND INTERIOR CORNERS, ALONG SEATHING SEAMS, FLASHINGS, FLANGES, AS WELL AS ANY FENESTRATIONS. REFER TO INSTALLATION MANUAL FOR SPECIFICATIONS PER APPLICATION TYPE.
2. ROLL (WITH REQUIRED ROLLER) ZIP SHEATHING FLASHING TAPE AROUND CORNERS AND JOINTS/SEAMS.
3. AVOID WRINKLES AND FISH MOUTHS. IF OCCURED, USE A ROLLER TO SMOOTH OUT. IF UNABLE TO REMOVE WRINKLES OR FISH MOUTH WITH ROLLER, REMOVE THE SECTION AND REPLACE WITH A NEW PIECE.
4. APPLY TAPE OVER CLEAN DRY SURFACES ONLY AND INCLUDE APPROPRIATE JOINT OVERLAPS WHERE TAPE STRANDS MEET.
5. APPLY SEALANT IN CONJUNCTION WITH TAPE WHERE REQUIRED.

## 2 SHEATHING TAPE DETAILS

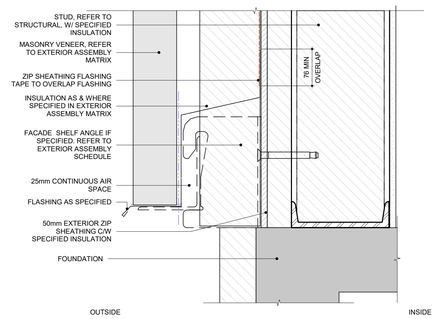
1 : 5



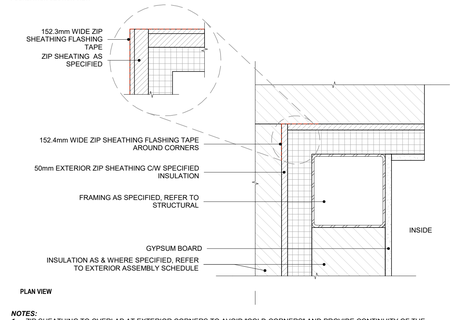

**PARAPET SECTION VIEW**




**WALL SECTION VIEW**




**FOUNDATION SECTION VIEW**




**PLAN VIEW**

***NOTES:***

1. ZIP SHEATHING TO OVERLAP AT EXTERIOR CORNERS TO AVOID "COLD-CORNERS" AND PROVIDE CONTINUITY OF THE CONTINUOUS INSULATION.
2. ROLL (WITH REQUIRED ROLLER) ZIP SHEATHING FLASHING TAPE AROUND CORNERS, JOINTS/SEAMS, AND FLASHINGS.
3. WATER-RESISTIVE BARRIER TO FACE OUTSIDE.
4. FOR ANY HOLES IN SHEATHING LES THAN 2", INSTALL FLASHING TAPE OVER THE HOLE WITH MIN 1" OVERLAP ON ALL SIDES. FOR HOLES LARGER THAN 2", CUT OUT THE SECTION AND FIT A NEW PIECE WITHIN THE SPACE THEN TAPE AS SPECIFIED. IF THE LARGE HOLE IS IN A SHEAR APPLICATION, HORIZONTAL BLOCKING MUST BE INSTALLED BETWEEN VERTICAL STUDS FOR LATERAL SUPPORT.
5. REMEDY SAW KERF AND CHIP DAMAGE WITH FLASHING TAPE. IF SIDING IS REMOVED FROM SHEATHING, THEN A WATER-RESISTIVE BARRIER MUST BE INSTALLED OVER AREA THE SIDING WAS REMOVED.
6. FOR NON-STRUCTURAL SHEATHING, ATTACH TO FRAMING WITH 0.113" DIAMETER SHANK NAILS FOLLOWING A 6"/12" (EDGE/FEILD) FASTENING PATTERN. NAILS MUST PENETRATE THE STUDS AT LEAST 1". OR AS OTHERWISE SPECIFIED. WITH SHEAR WALLS PRESCRIPTIVE, THE PANEL EDGES MUST BE BACKED BY SOLID WOOD FRAMING WITH A MINIMUM 1/2" THICK GYPSUM WALLBOARD.
7. REFER TO INSTALLATION MANUAL FOR SHEATHING AND TAPE.

## 1 ZIP SHEATHING DETAILS

1 : 5

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SEALS

ONTARIO ASSOCIATION OF ARCHITECTS
DAVID PREMI
LICENCE
4316

MISSISSAUGA

**CITY OF MISSISSAUGA FIRE STATION 123**

3050 THE COLLEGEWAY MISSISSAUGA, ONTARIO CANADA

| | |
|---|---|
| **SITE PLAN APPLICATION #** | SP 24-3 |
| **DEVELOPMENT TYPE** | EMERGENCY SERVICES |
| **LEGAL DESCRIPTION** | PART OF BLOCK 124 REGISTERED PLAN 43M-745 |
| **APPLICANT INFO** | DAVID PREMI, 25 MAIN ST. W, SUITE 1800, HAMILTON, ON L8P 1H1 905.522.0220 |
| **OWNER INFO** | CITY OF MISSISSAUGA, ADRIANA TANTALO, 300 CITY CENTRE DRIVE 905.615.3200 X 3395 |

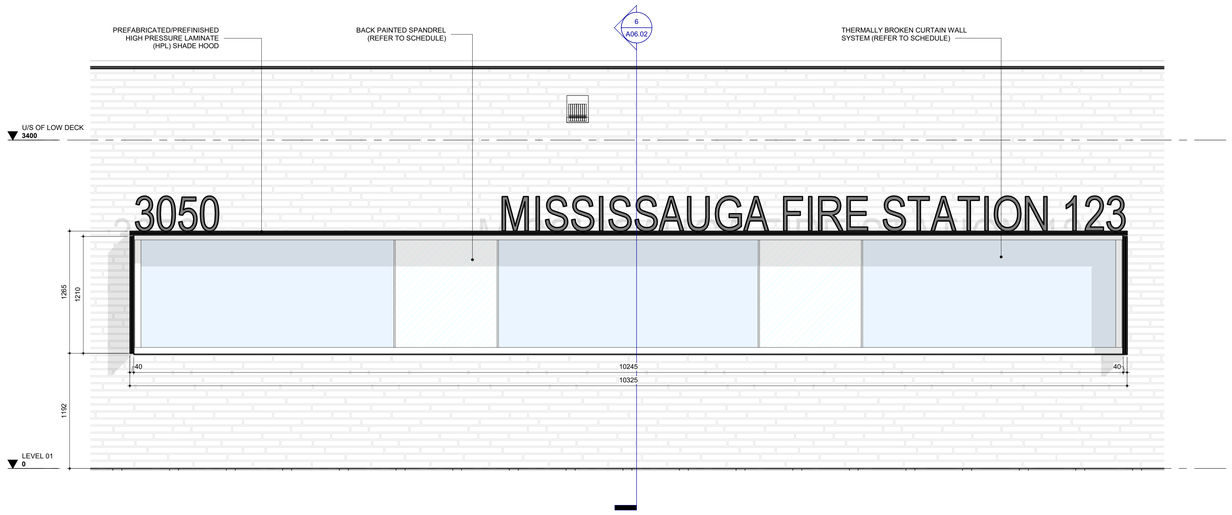
| NO. | ISSUES/REVISIONS | DATE |
|---|---|---|
| 0 | TENDER | 05/06/24 |

DRAWING TITLE:

**EXTERIOR ENVELOPE DETAILS**

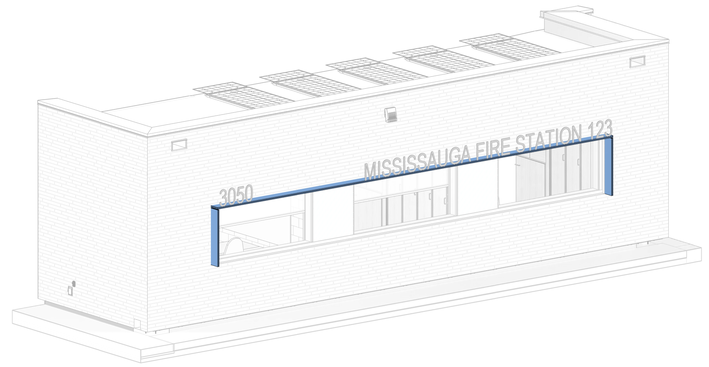
| | |
|---|---|
| ISSUE DATE: | 05/06/24 |
| DRAWN BY: AR | CHECKED BY: SL |
| PROJECT NO.: 12301 | SCALE: 1 : 5 |
| DRAWING NO.: A06.01 | REVISION: 0 |

( PLOT DATE: 2024-05-09 4:12:08 PM )

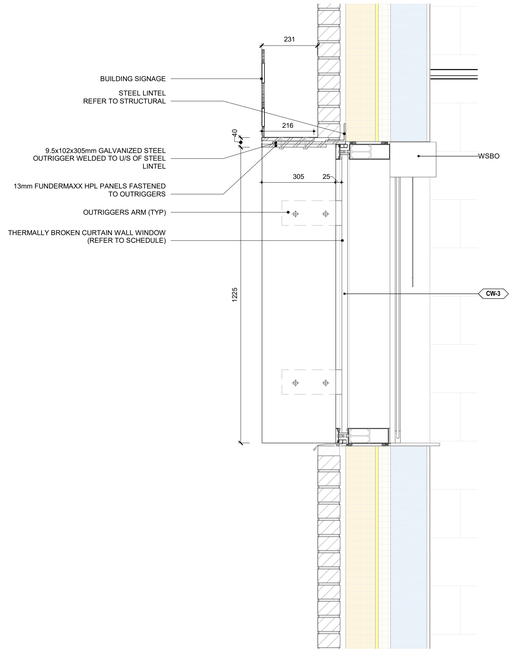



## 4 SHADE HOOD ELEVATION

1 : 25

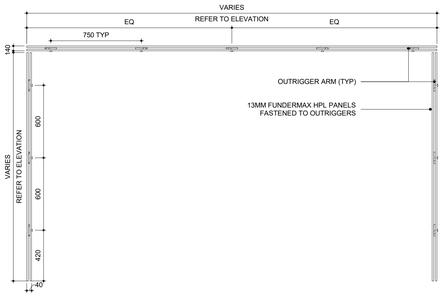



## 5 WINDOW SHADE HOOD 3D VIEW




## 6 WINDOW SHADE SECTION DETAIL

1 : 10




## 7 TYPICAL WINDOW SHADE HOOD ELEVATION

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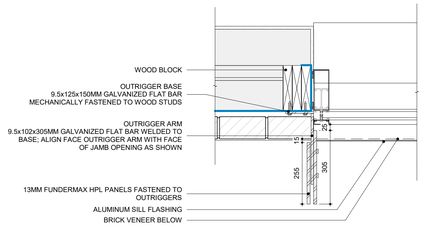


## 1 WINDOW SHADE HOOD

1 : 10


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MISSISSAUGA

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3050 THE COLLEGEWAY MISSISSAUGA, ONTARIO CANADA

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| NO. | ISSUES/REVISIONS | DATE |
|---|---|---|
| 0 | TENDER | 05/06/24 |

DRAWING TITLE:

**WINDOW SHADE DETAILS**

| | |
|---|---|
| ISSUE DATE: | 05/06/24 |
| DRAWN BY: AR | CHECKED BY: SL |
| PROJECT NO.: 12301 | SCALE: As indicated |
| DRAWING NO.: | REVISION: |

**A06.02** **0**


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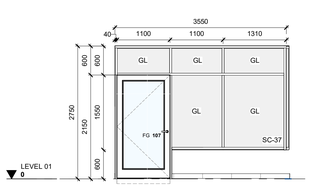
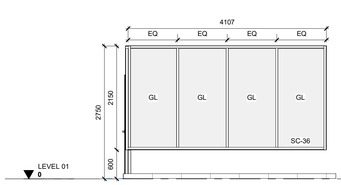



**15 GLAZING ELEVATION**
1 : 50

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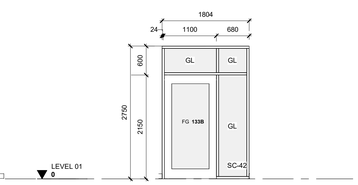


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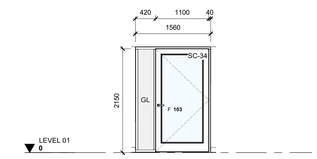


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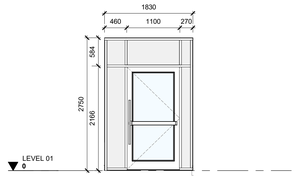


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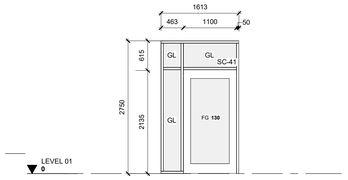


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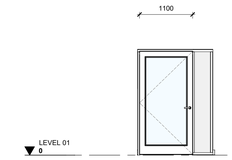


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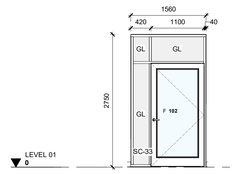


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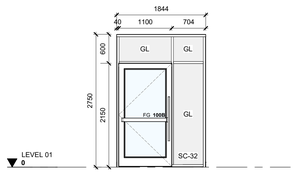


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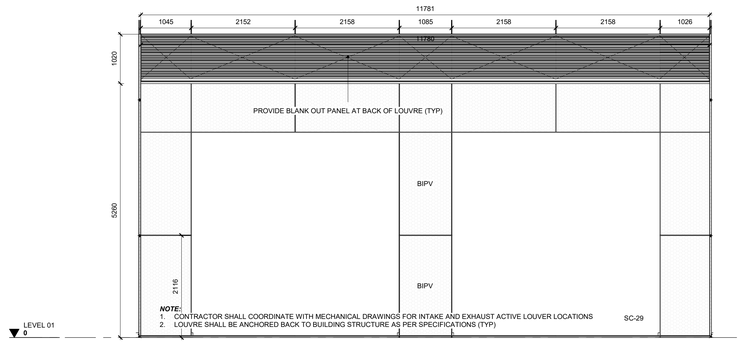


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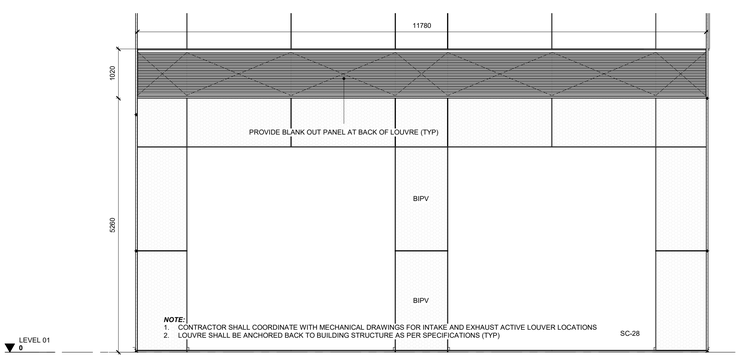


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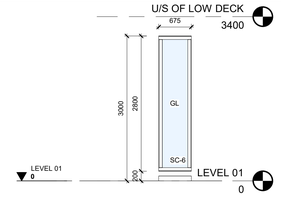


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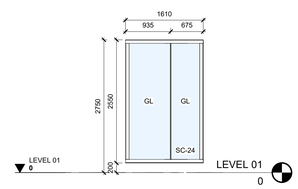


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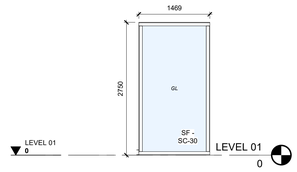


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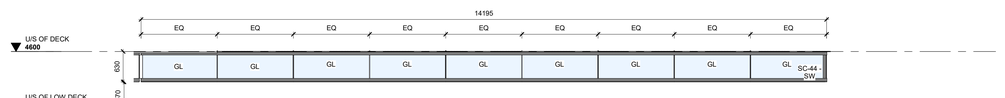


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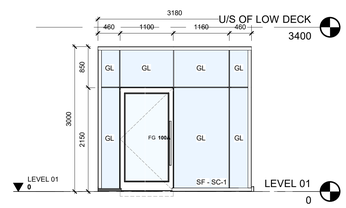
**8 GLAZING ELEVATION**
1 : 50

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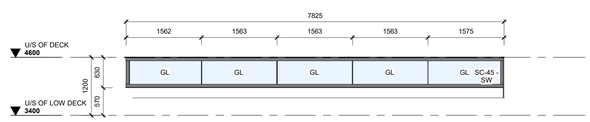


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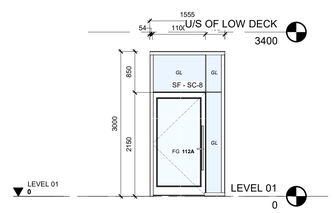


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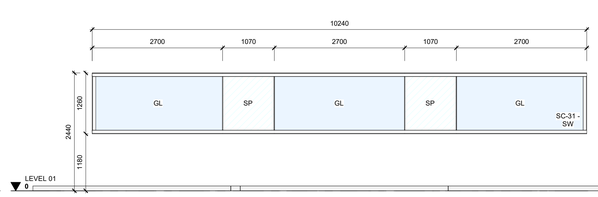


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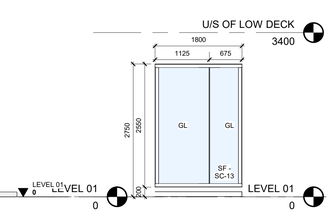



**3 GLAZING ELEVATION**
1 : 50

## CURTAIN WALL SCHEDULE

| FUNCTION | TYPE | MARK | WIDTH | HEIGHT | BASIS OF DESIGN | FINISH COLOR |
|---|---|---|---|---|---|---|
| EXTERIOR SCREEN | | | | | | |
| EXTERIOR SCREEN | CW-1 | SC-43-SW | 6,742 mm | 629.68 mm | THERMAWALL 2600, 63.5x152.4mm FRAME, TRIPLE-GLAZED IGUs | WHITE ANODIZED |
| EXTERIOR SCREEN | CW-1 | SC-44 - SW | 14,195 mm | 629.68 mm | THERMAWALL 2600, 63.5x152.4mm FRAME, TRIPLE-GLAZED IGUs | WHITE ANODIZED |
| EXTERIOR SCREEN | CW-1 | SC-45 - SW | 7,825 mm | 629.68 mm | THERMAWALL 2600, 63.5x152.4mm FRAME, TRIPLE-GLAZED IGUs | WHITE ANODIZED |
| | | | | | | |
| EXTERIOR SCREEN | CW-3 | SC-31 - SW | 10,240 mm | 1,260 mm | THERMAWALL 2600, 63.5x152.4mm FRAME, TRIPLE-GLAZED IGUs | BLACK ANODIZED |
| EXTERIOR SCREEN | CW-3 | SF - SC-1 | 3,180 mm | 3,000 mm | THERMAWALL 2600, 63.5x152.4mm FRAME, TRIPLE-GLAZED IGUs | BLACK ANODIZED |
| EXTERIOR SCREEN | CW-3 | SF - SC-8 | 1,555 mm | 3,000 mm | THERMAWALL 2600, 63.5x152.4mm FRAME, TRIPLE-GLAZED IGUs | BLACK ANODIZED |
| EXTERIOR SCREEN | CW-3 | SF - SC-13 | 1,800 mm | 2,550 mm | THERMAWALL 2600, 63.5x152.4mm FRAME, TRIPLE-GLAZED IGUs | BLACK ANODIZED |
| EXTERIOR SCREEN | CW-3 | SF - SC-30 | 1,469 mm | 2,750 mm | THERMAWALL 2600, 63.5x152.4mm FRAME, TRIPLE-GLAZED IGUs | BLACK ANODIZED |
| | | | | | | |
| EXTERIOR VERTICAL SCREEN | | | | | | |
| EXTERIOR VERTICAL SCREEN | CW-3 | SC-2 | 675 mm | 2,800 mm | THERMAWALL 2600, 63.5x152.4mm FRAME, TRIPLE-GLAZED IGUs | BLACK ANODIZED |
| EXTERIOR VERTICAL SCREEN | CW-3 | SC-3 | 675 mm | 2,800 mm | THERMAWALL 2600, 63.5x152.4mm FRAME, TRIPLE-GLAZED IGUs | BLACK ANODIZED |
| EXTERIOR VERTICAL SCREEN | CW-3 | SC-4 | 675 mm | 2,800 mm | THERMAWALL 2600, 63.5x152.4mm FRAME, TRIPLE-GLAZED IGUs | BLACK ANODIZED |
| EXTERIOR VERTICAL SCREEN | CW-3 | SC-5 | 675 mm | 2,800 mm | THERMAWALL 2600, 63.5x152.4mm FRAME, TRIPLE-GLAZED IGUs | BLACK ANODIZED |
| EXTERIOR VERTICAL SCREEN | CW-3 | SC-6 | 675 mm | 2,800 mm | THERMAWALL 2600, 63.5x152.4mm FRAME, TRIPLE-GLAZED IGUs | BLACK ANODIZED |
| EXTERIOR VERTICAL SCREEN | CW-3 | SC-7 | 675 mm | 2,800 mm | THERMAWALL 2600, 63.5x152.4mm FRAME, TRIPLE-GLAZED IGUs | BLACK ANODIZED |
| EXTERIOR VERTICAL SCREEN | CW-3 | SC-9 | 600 mm | 2,550 mm | THERMAWALL 2600, 63.5x152.4mm FRAME, TRIPLE-GLAZED IGUs | BLACK ANODIZED |
| EXTERIOR VERTICAL SCREEN | CW-3 | SC-10 | 600 mm | 2,550 mm | THERMAWALL 2600, 63.5x152.4mm FRAME, TRIPLE-GLAZED IGUs | BLACK ANODIZED |
| EXTERIOR VERTICAL SCREEN | CW-3 | SC-11 | 600 mm | 2,550 mm | THERMAWALL 2600, 63.5x152.4mm FRAME, TRIPLE-GLAZED IGUs | BLACK ANODIZED |
| EXTERIOR VERTICAL SCREEN | CW-3 | SC-12 | 600 mm | 2,550 mm | THERMAWALL 2600, 63.5x152.4mm FRAME, TRIPLE-GLAZED IGUs | BLACK ANODIZED |
| EXTERIOR VERTICAL SCREEN | CW-3 | SC-14 | 600 mm | 2,550 mm | THERMAWALL 2600, 63.5x152.4mm FRAME, TRIPLE-GLAZED IGUs | BLACK ANODIZED |
| EXTERIOR VERTICAL SCREEN | CW-3 | SC-15 | 600 mm | 2,550 mm | THERMAWALL 2600, 63.5x152.4mm FRAME, TRIPLE-GLAZED IGUs | BLACK ANODIZED |
| EXTERIOR VERTICAL SCREEN | CW-3 | SC-16 | 600 mm | 2,550 mm | THERMAWALL 2600, 63.5x152.4mm FRAME, TRIPLE-GLAZED IGUs | BLACK ANODIZED |
| EXTERIOR VERTICAL SCREEN | CW-3 | SC-17 | 600 mm | 2,550 mm | THERMAWALL 2600, 63.5x152.4mm FRAME, TRIPLE-GLAZED IGUs | BLACK ANODIZED |
| EXTERIOR VERTICAL SCREEN | CW-3 | SC-18 | 600 mm | 2,550 mm | THERMAWALL 2600, 63.5x152.4mm FRAME, TRIPLE-GLAZED IGUs | BLACK ANODIZED |
| EXTERIOR VERTICAL SCREEN | CW-3 | SC-19 | 600 mm | 2,550 mm | THERMAWALL 2600, 63.5x152.4mm FRAME, TRIPLE-GLAZED IGUs | BLACK ANODIZED |
| EXTERIOR VERTICAL SCREEN | CW-3 | SC-20 | 600 mm | 2,550 mm | THERMAWALL 2600, 63.5x152.4mm FRAME, TRIPLE-GLAZED IGUs | BLACK ANODIZED |
| EXTERIOR VERTICAL SCREEN | CW-3 | SC-21 | 600 mm | 2,550 mm | THERMAWALL 2600, 63.5x152.4mm FRAME, TRIPLE-GLAZED IGUs | BLACK ANODIZED |
| EXTERIOR VERTICAL SCREEN | CW-3 | SC-22 | 600 mm | 2,550 mm | THERMAWALL 2600, 63.5x152.4mm FRAME, TRIPLE-GLAZED IGUs | BLACK ANODIZED |
| EXTERIOR VERTICAL SCREEN | CW-3 | SC-23 | 600 mm | 2,550 mm | THERMAWALL 2600, 63.5x152.4mm FRAME, TRIPLE-GLAZED IGUs | BLACK ANODIZED |
| EXTERIOR VERTICAL SCREEN | CW-3 | SC-24 | 1,610 mm | 2,550 mm | THERMAWALL 2600, 63.5x152.4mm FRAME, TRIPLE-GLAZED IGUs | BLACK ANODIZED |
| EXTERIOR VERTICAL SCREEN | CW-3 | SC-25 | 600 mm | 2,550 mm | THERMAWALL 2600, 63.5x152.4mm FRAME, TRIPLE-GLAZED IGUs | BLACK ANODIZED |
| EXTERIOR VERTICAL SCREEN | CW-3 | SC-26 | 600 mm | 2,550 mm | THERMAWALL 2600, 63.5x152.4mm FRAME, TRIPLE-GLAZED IGUs | BLACK ANODIZED |
| EXTERIOR VERTICAL SCREEN | CW-3 | SC-27 | 600 mm | 2,550 mm | THERMAWALL 2600, 63.5x152.4mm FRAME, TRIPLE-GLAZED IGUs | BLACK ANODIZED |
| | | | | | | |
| INTERIOR SCREEN | | | | | | |
| INTERIOR SCREEN | IS1 | SC-32 | 1,984 mm | 2,750 mm | KAWNEER 451 | BLACK ANODIZED |
| INTERIOR SCREEN | IS1 | SC-33 | 1,655 mm | 2,750 mm | KAWNEER 451 | BLACK ANODIZED |
| INTERIOR SCREEN | IS1 | SC-34 | 1,655 mm | 2,191.28 mm | KAWNEER 451 | BLACK ANODIZED |
| INTERIOR SCREEN | IS1 | SC-35 | 1,655 mm | 2,191.28 mm | KAWNEER 451 | BLACK ANODIZED |
| INTERIOR SCREEN | IS1 | SC-36 | 4,202 mm | 2,150 mm | KAWNEER 451 | BLACK ANODIZED |
| INTERIOR SCREEN | IS1 | SC-37 | 3,550 mm | 2,150 mm | KAWNEER 451 | BLACK ANODIZED |
| INTERIOR SCREEN | IS1 | SC-38 | 2,020 mm | 2,750 mm | KAWNEER 451 | BLACK ANODIZED |
| | | | | | | |
| INTERIOR SCREEN | IS4 | SC-41 | 1,658 mm | 2,750 mm | FIREFRAME DESIGNER SERIES | BLACK ANODIZED |
| INTERIOR SCREEN | IS4 | SC-42 | 1,804 mm | 2,750 mm | FIREFRAME DESIGNER SERIES | BLACK ANODIZED |


DPAI
Design Partners in Architecture and Interiors



DRAWINGS ARE NOT TO BE SCALED.

CONTRACTOR MUST VERIFY ALL DIMENSIONS ON THE JOB AND REPORT ANY DISCREPANCY TO ARCHITECTS BEFORE PROCEEDING WITH WORK.

ALL DRAWINGS AND SPECIFICATIONS ARE THE PROPERTY OF THE ARCHITECT AND MUST BE RETURNED AT THE COMPLETION OF THE WORK.


SEALS

ONTARIO ASSOCIATION OF ARCHITECTS
DAVID PREMI
LICENCE
4316

MISSISSAUGA

# CITY OF MISSISSAUGA FIRE STATION 123

3050 THE COLLEGEWAY MISSISSAUGA, ONTARIO CANADA

| | |
|---|---|
| **SITE PLAN APPLICATION #** | SP 24-3 |
| **DEVELOPMENT TYPE** | EMERGENCY SERVICES |
| **LEGAL DESCRIPTION** | PART OF BLOCK 124 REGISTERED PLAN 43M-745 |
| **APPLICANT INFO** | DAVID PREMI, 25 MAIN ST. W, SUITE 1800, HAMILTON, ON L8P 1H1<br>905.522.0220 |
| **OWNER INFO** | CITY OF MISSISSAUGA, ADRIANA TANTALO, 300 CITY CENTRE DRIVE<br>905.615.3200 X 3395 |

| NO. | ISSUES/REVISIONS | DATE |
|---|---|---|
| 10 | TENDER | 05/06/24 |
| 9 | SPA RESUBMISSION | 03/12/24 |
| 8 | BP - RESUBMISSION | 02/23/24 |
| 7 | PERMIT | 01/22/24 |
| 6 | CLASS A ESTIMATE | 01/22/24 |
| 5 | 90% CD SUBMISSION | 1/22/24 |
| 4 | FORMAL SPA | 12/05/23 |
| 3 | MINOR VARIANCE APPLICATION | 09/08/23 |
| 2 | PAM 1 RE-SUBMISSION | 09/07/23 |
| 1 | PRELIMINARY ZONING REVIEW RE-SUBMISSION | 08/02/23 |
| 0 | SPA PRE-CONSULTATION | 03/28/23 |

DRAWING TITLE:

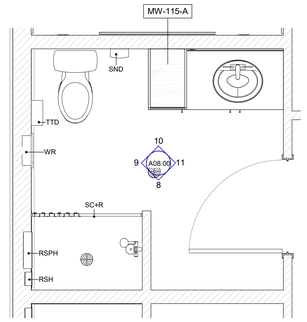
## INTERIOR & EXTERIOR GLAZING & LOUVRES ELEVATIONS

| | | | |
|---|---|---|---|
| ISSUE DATE: | | | 05/06/24 |
| DRAWN BY: | SRL/AF | CHECKED BY: | SRL |
| PROJECT NO.: | 12301 | SCALE: | 1 : 50 |

DRAWING NO.: **A07.00**

REVISION: **10**


[ PLOT DATE: 2024-05-03 4:13:26 ] AM

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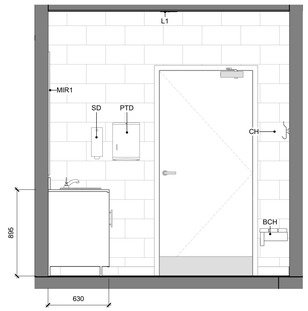
1 : 25

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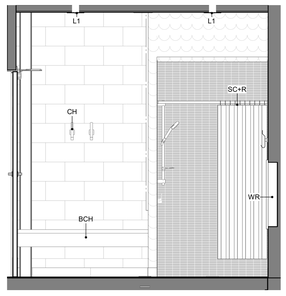
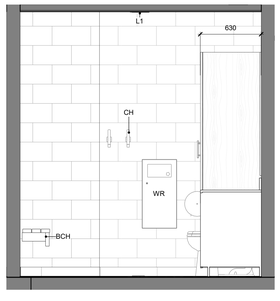
1 : 25




## 8 WASHROOM (TYPICAL)
1 : 25

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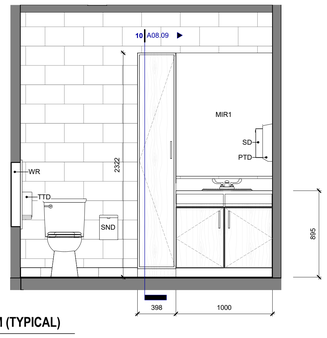
1 : 25

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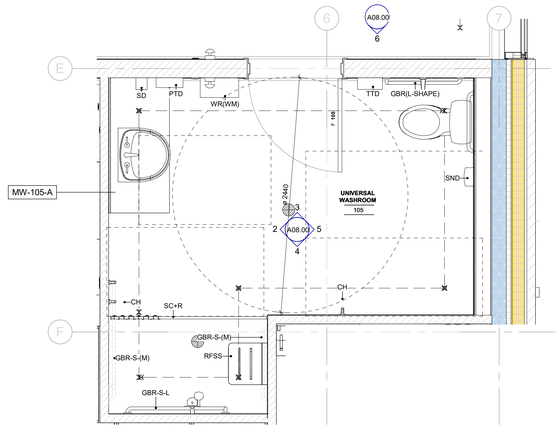
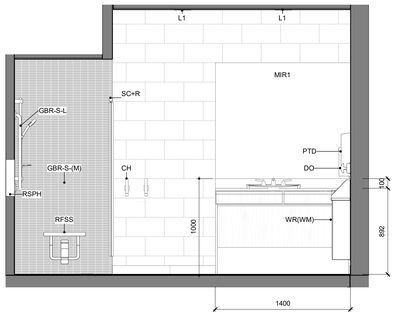
1 : 25




## 1 UNIVERSAL WASHROOM
1 : 25

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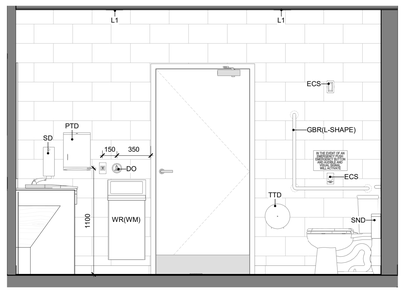
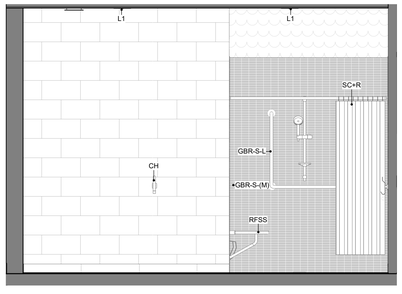
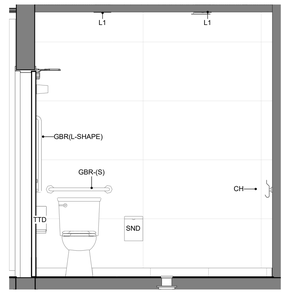
1 : 25



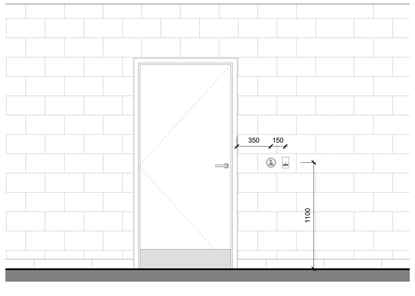

## 3 UNIVERSAL WASHROOM
1 : 25




## 4 UNIVERSAL WASHROOM
1 : 25




## 5 UNIVERSAL WASHROOM
1 : 25




## 6 UNIVERSAL WASHROOM
1 : 25

## WASHROOM ACCESSORIES SCHEDULE

**GENERAL NOTES:**
REFER TO & COORDINATE WITH CONSULTANT DRAWINGS AND SPECIFICATIONS FOR FULL SPECS OF EQUIPMENT

| CODE | DESCRIPTION | SUPPLIER | MODEL NO. | FINISH | QUANTITY |
|---|---|---|---|---|---|
| 105 | | | | | |
| UNIVERSAL WASHROOM | | | | | |
| CH | COAT HOOK | BOBRICK WASHROOM EQUIPMENT, INC. | B-6827 | SATIN STAINLESS STEEL | 3 |
| GBR(L-SHAPE) | GRAB BAR (762x762) - 38MM DIAMETER STAINLESS STEEL GRAB BARS WITH CONCEALED MOUNTING AND PEENED GRIPPING SURFACE | BOBRICK WASHROOM EQUIPMENT, INC | B-5898.99 | SATIN FINISH | 1 |
| GBR-(S) | GRAB BAR (600) - 38MM DIAMETER STAINLESS STEEL GRAB BARS WITH CONCEALED MOUNTING AND PEENED GRIPPING SURFACE | BOBRICK WASHROOM EQUIPMENT, INC. | B-5806.99x24 | SATIN FINISH | 1 |
| GBR-S-(M) | GRAB BAR (762) - 38MM DIAMETER STAINLESS STEEL GRAB BARS WITH CONCEALED MOUNTING AND PEENED GRIPPING SURFACE | BOBRICK WASHROOM EQUIPMENT, INC. | B-5806.99x30 | SATIN FINISH | 2 |
| GBR-S-L | GRAB BAR (750x1000) - 38MM DIAMETER STAINLESS STEEL GRAB BARS WITH CONCEALED MOUNTING AND PEENED GRIPPING SURFACE | BOBRICK WASHROOM EQUIPMENT, INC | B-5854.99-LEFT | SATIN FINISH | 1 |
| MIR1 | FRAMLESS WALL MOUNT MIRROR | CONTRACTOR | N/A | N/A | 1 |
| PTD | UNIVERSAL LEVER PAPER TOWEL ROLL DISPENSER | CASCADE PRO | DH37 | UNIVERSAL LEVER PAPER TOWEL ROLL DISPENSER | 1 |
| RFSS | REVERSIBLE FOLDING SHOWER SEAT | BOBRICK WASHROOM EQUIPMENT, INC | B-5191 | REVERSIBLE FOLDING SHOWER SEAT | 1 |
| RSH | RECESSED SOAP HOLDER | BOBRICK WASHROOM EQUIPMENT, INC. | B-4380 | RECESSED HEAVY-DUTY SOAP DISH | 1 |
| RSPH | SHOWER NICHE | VEVOR | BA-303010-BR | SATIN STAINLESS STEEL | 1 |
| SC+R | SHOWER ROD AND CURTAIN | AMERICAN SPECIALTIES INC. | 1204-1/2 + 1200-V CURTAIN | SATIN STAINLESS STEEL | 1 |
| SD | SOAP DISPENSER | BOBRICK WASHROOM EQUIPMENT, INC. | B-4112 | 40OZ CONTURA SERIES SURFACE MOUNTED STAINLESS STEEL LIQUID SOAP DISPENSER | 1 |
| SND | SURFACE-MOUNTED SANITARY NAPKIN DISPOSAL | FROST | 620 | SATIN FINISH | 1 |
| TTD | TWIN MINI JUMBO BATH TOILET TISSUE ROLL DISPENSER | TORK | 5555290 | BLACK | 1 |
| WR(WM) | WASTE RECEPTACLE | FROST | 303-3NL | WALL MOUNTED WASTE RECEPTACLE | 1 |
| 115 | | | | | |
| WASHROOM / SHOWER | | | | | |
| CH | COAT HOOK | BOBRICK WASHROOM EQUIPMENT, INC. | B-6827 | SATIN STAINLESS STEEL | 4 |
| MIR1 | FRAMLESS WALL MOUNT MIRROR | CONTRACTOR | N/A | N/A | 1 |
| PTD | UNIVERSAL LEVER PAPER TOWEL ROLL DISPENSER | CASCADE PRO | DH37 | UNIVERSAL LEVER PAPER TOWEL ROLL DISPENSER | 1 |
| RSH | RECESSED SOAP HOLDER | BOBRICK WASHROOM EQUIPMENT, INC. | B-4380 | RECESSED HEAVY-DUTY SOAP DISH | 1 |
| RSPH | SHOWER NICHE | VEVOR | BA-303010-BR | SATIN STAINLESS STEEL | 1 |
| SC+R | SHOWER ROD AND CURTAIN | AMERICAN SPECIALTIES INC. | 1204-1/2 + 1200-V CURTAIN | SATIN STAINLESS STEEL | 1 |
| SD | SOAP DISPENSER | BOBRICK WASHROOM EQUIPMENT, INC. | B-4112 | 40OZ CONTURA SERIES SURFACE MOUNTED STAINLESS STEEL LIQUID SOAP DISPENSER | 1 |
| SND | SURFACE-MOUNTED SANITARY NAPKIN DISPOSAL | FROST | 620 | SATIN FINISH | 1 |
| TTD | TWIN MINI JUMBO BATH TOILET TISSUE ROLL DISPENSER | TORK | 5555290 | BLACK | 1 |
| WR | RECESSED WASTE RECEPTACLE WITH DISPOSAL DOOR | BOBRICK WASHROOM EQUIPMENT, INC. | B-35633 | SATIN STAINLESS STEEL | 1 |
| 116 | | | | | |
| WASHROOM / SHOWER | | | | | |
| CH | COAT HOOK | BOBRICK WASHROOM EQUIPMENT, INC. | B-6827 | SATIN STAINLESS STEEL | 4 |
| MIR1 | FRAMLESS WALL MOUNT MIRROR | CONTRACTOR | N/A | N/A | 1 |
| PTD | UNIVERSAL LEVER PAPER TOWEL ROLL DISPENSER | CASCADE PRO | DH37 | UNIVERSAL LEVER PAPER TOWEL ROLL DISPENSER | 1 |
| RSH | RECESSED SOAP HOLDER | BOBRICK WASHROOM EQUIPMENT, INC. | B-4380 | RECESSED HEAVY-DUTY SOAP DISH | 1 |
| RSPH | SHOWER NICHE | VEVOR | BA-303010-BR | SATIN STAINLESS STEEL | 1 |
| SC+R | SHOWER ROD AND CURTAIN | AMERICAN SPECIALTIES INC. | 1204-1/2 + 1200-V CURTAIN | SATIN STAINLESS STEEL | 1 |
| SD | SOAP DISPENSER | BOBRICK WASHROOM EQUIPMENT, INC. | B-4112 | 40OZ CONTURA SERIES SURFACE MOUNTED STAINLESS STEEL LIQUID SOAP DISPENSER | 1 |
| SND | SURFACE-MOUNTED SANITARY NAPKIN DISPOSAL | FROST | 620 | SATIN FINISH | 1 |
| TTD | TWIN MINI JUMBO BATH TOILET TISSUE ROLL DISPENSER | TORK | 5555290 | BLACK | 1 |
| WR | RECESSED WASTE RECEPTACLE WITH DISPOSAL DOOR | BOBRICK WASHROOM EQUIPMENT, INC. | B-35633 | SATIN STAINLESS STEEL | 1 |
| 117 | | | | | |
| WASHROOM / SHOWER | | | | | |
| CH | COAT HOOK | BOBRICK WASHROOM EQUIPMENT, INC. | B-6827 | SATIN STAINLESS STEEL | 4 |
| MIR1 | FRAMLESS WALL MOUNT MIRROR | CONTRACTOR | N/A | N/A | 1 |
| PTD | UNIVERSAL LEVER PAPER TOWEL ROLL DISPENSER | CASCADE PRO | DH37 | UNIVERSAL LEVER PAPER TOWEL ROLL DISPENSER | 1 |
| RSH | RECESSED SOAP HOLDER | BOBRICK WASHROOM EQUIPMENT, INC. | B-4380 | RECESSED HEAVY-DUTY SOAP DISH | 1 |
| RSPH | SHOWER NICHE | VEVOR | BA-303010-BR | SATIN STAINLESS STEEL | 1 |
| SC+R | SHOWER ROD AND CURTAIN | AMERICAN SPECIALTIES INC. | 1204-1/2 + 1200-V CURTAIN | SATIN STAINLESS STEEL | 1 |
| SD | SOAP DISPENSER | BOBRICK WASHROOM EQUIPMENT, INC. | B-4112 | 40OZ CONTURA SERIES SURFACE MOUNTED STAINLESS STEEL LIQUID SOAP DISPENSER | 1 |
| SND | SURFACE-MOUNTED SANITARY NAPKIN DISPOSAL | FROST | 620 | SATIN FINISH | 1 |
| TTD | TWIN MINI JUMBO BATH TOILET TISSUE ROLL DISPENSER | TORK | 5555290 | BLACK | 1 |
| WR | RECESSED WASTE RECEPTACLE WITH DISPOSAL DOOR | BOBRICK WASHROOM EQUIPMENT, INC. | B-35633 | SATIN STAINLESS STEEL | 1 |
| 118 | | | | | |
| WASHROOM / SHOWER | | | | | |
| CH | COAT HOOK | BOBRICK WASHROOM EQUIPMENT, INC. | B-6827 | SATIN STAINLESS STEEL | 4 |
| MIR1 | FRAMLESS WALL MOUNT MIRROR | CONTRACTOR | N/A | N/A | 1 |
| PTD | UNIVERSAL LEVER PAPER TOWEL ROLL DISPENSER | CASCADE PRO | DH37 | UNIVERSAL LEVER PAPER TOWEL ROLL DISPENSER | 1 |
| RSH | RECESSED SOAP HOLDER | BOBRICK WASHROOM EQUIPMENT, INC. | B-4380 | RECESSED HEAVY-DUTY SOAP DISH | 1 |
| RSPH | SHOWER NICHE | VEVOR | BA-303010-BR | SATIN STAINLESS STEEL | 1 |
| SC+R | SHOWER ROD AND CURTAIN | AMERICAN SPECIALTIES INC. | 1204-1/2 + 1200-V CURTAIN | SATIN STAINLESS STEEL | 1 |
| SD | SOAP DISPENSER | BOBRICK WASHROOM EQUIPMENT, INC. | B-4112 | 40OZ CONTURA SERIES SURFACE MOUNTED STAINLESS STEEL LIQUID SOAP DISPENSER | 1 |
| SND | SURFACE-MOUNTED SANITARY NAPKIN DISPOSAL | FROST | 620 | SATIN FINISH | 1 |
| TTD | TWIN MINI JUMBO BATH TOILET TISSUE ROLL DISPENSER | TORK | 5555290 | BLACK | 1 |
| WR | RECESSED WASTE RECEPTACLE WITH DISPOSAL DOOR | BOBRICK WASHROOM EQUIPMENT, INC. | B-35633 | SATIN STAINLESS STEEL | 1 |


## WASHROOM ACCESSORIES SCHEDULE

**GENERAL NOTES:**
REFER TO & COORDINATE WITH CONSULTANT DRAWINGS AND SPECIFICATIONS FOR FULL SPECS OF EQUIPMENT


| CODE | DESCRIPTION | SUPPLIER | MODEL NO. | FINISH | QUANTITY |
|---|---|---|---|---|---|
| CH | COAT HOOK | BOBRICK WASHROOM EQUIPMENT, INC. | B-6827 | SATIN STAINLESS STEEL | 19 |
| GBR(L-SHAPE) | GRAB BAR (762x762) - 38MM DIAMETER STAINLESS STEEL GRAB BARS WITH CONCEALED MOUNTING AND PEENED GRIPPING SURFACE | BOBRICK WASHROOM EQUIPMENT, INC | B-5898.99 | SATIN FINISH | 1 |
| GBR-(S) | GRAB BAR (600) - 38MM DIAMETER STAINLESS STEEL GRAB BARS WITH CONCEALED MOUNTING AND PEENED GRIPPING SURFACE | BOBRICK WASHROOM EQUIPMENT, INC. | B-5806.99x24 | SATIN FINISH | 1 |
| GBR-S-(M) | GRAB BAR (762) - 38MM DIAMETER STAINLESS STEEL GRAB BARS WITH CONCEALED MOUNTING AND PEENED GRIPPING SURFACE | BOBRICK WASHROOM EQUIPMENT, INC. | B-5806.99x30 | SATIN FINISH | 2 |
| GBR-S-L | GRAB BAR (750x1000) - 38MM DIAMETER STAINLESS STEEL GRAB BARS WITH CONCEALED MOUNTING AND PEENED GRIPPING SURFACE | BOBRICK WASHROOM EQUIPMENT, INC | B-5854.99-LEFT | SATIN FINISH | 1 |
| MIR1 | FRAMLESS WALL MOUNT MIRROR | CONTRACTOR | N/A | N/A | 5 |
| PTD | UNIVERSAL LEVER PAPER TOWEL ROLL DISPENSER | CASCADE PRO | DH37 | UNIVERSAL LEVER PAPER TOWEL ROLL DISPENSER | 5 |
| RFSS | REVERSIBLE FOLDING SHOWER SEAT | BOBRICK WASHROOM EQUIPMENT, INC | B-5191 | REVERSIBLE FOLDING SHOWER SEAT | 1 |
| RSH | RECESSED SOAP HOLDER | BOBRICK WASHROOM EQUIPMENT, INC. | B-4380 | RECESSED HEAVY-DUTY SOAP DISH | 5 |
| RSPH | SHOWER NICHE | VEVOR | BA-303010-BR | SATIN STAINLESS STEEL | 5 |
| SC+R | SHOWER ROD AND CURTAIN | AMERICAN SPECIALTIES INC. | 1204-1/2 + 1200-V CURTAIN | SATIN STAINLESS STEEL | 5 |
| SD | SOAP DISPENSER | BOBRICK WASHROOM EQUIPMENT, INC. | B-4112 | 40OZ CONTURA SERIES SURFACE MOUNTED STAINLESS STEEL LIQUID SOAP DISPENSER | 5 |
| SND | SURFACE-MOUNTED SANITARY NAPKIN DISPOSAL | FROST | 620 | SATIN FINISH | 5 |
| TTD | TWIN MINI JUMBO BATH TOILET TISSUE ROLL DISPENSER | TORK | 5555290 | BLACK | 5 |
| WR | RECESSED WASTE RECEPTACLE WITH DISPOSAL DOOR | BOBRICK WASHROOM EQUIPMENT, INC. | B-35633 | SATIN STAINLESS STEEL | 4 |
| WR(WM) | WASTE RECEPTACLE | FROST | 303-3NL | WALL MOUNTED WASTE RECEPTACLE | 1 |

Grand total: 70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SEALS

ONTARIO ASSOCIATION OF ARCHITECTS
DAVID PREMI
LICENCE 4316

MISSISSAUGA

**CITY OF MISSISSAUGA FIRE STATION 123**

3050 THE COLLEGEWAY MISSISSAUGA, ONTARIO CANADA

| | |
|---|---|
| **SITE PLAN APPLICATION #** | SP 24-3 |
| **DEVELOPMENT TYPE** | EMERGENCY SERVICES |
| **LEGAL DESCRIPTION** | PART OF BLOCK 124 REGISTERED PLAN 43M-745 |
| **APPLICANT INFO** | DAVID PREMI, 25 MAIN ST. W, SUITE 1800, HAMILTON, ON L8P 1H1 905.522.0220 |
| **OWNER INFO** | CITY OF MISSISSAUGA, ADRIANA TANTALO, 300 CITY CENTRE DRIVE 905.615.3200 X 3395 |

| NO. | ISSUES/REVISIONS | DATE |
|---|---|---|
| 10 | TENDER | 05/06/24 |
| 9 | SPA RESUBMISSION | 03/12/24 |
| 8 | BP - RESUBMISSION | 02/23/24 |
| 7 | PERMIT | 01/22/24 |
| 6 | CLASS A ESTIMATE | 01/22/24 |
| 5 | 90% CD SUBMISSION | 1/22/24 |
| 4 | FORMAL SPA | 12/05/23 |
| 3 | MINOR VARIANCE APPLICATION | 09/08/23 |
| 2 | PAM 1 RE-SUBMISSION | 09/07/23 |
| 1 | PRELIMINARY ZONING REVIEW RE-SUBMISSION | 08/02/23 |
| 0 | SPA PRE-CONSULTATION | 03/28/23 |

DRAWING TITLE:

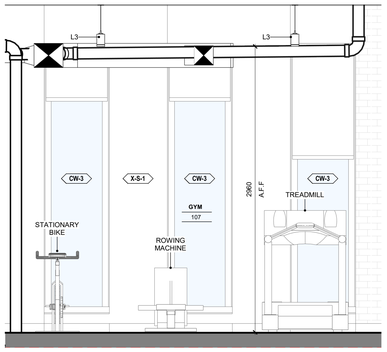
**WASHROOM PLANS, ELEVATIONS, SCHEDULES**

| | |
|---|---|
| ISSUE DATE: | 05/06/24 |
| DRAWN BY: SRL/AF | CHECKED BY: SRL |
| PROJECT NO.: 12301 | SCALE: 1 : 25 |

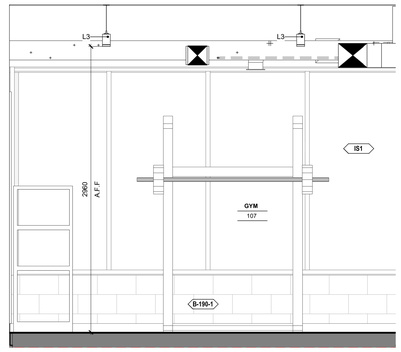
DRAWING NO.: **A08.00**

REVISION: **10**

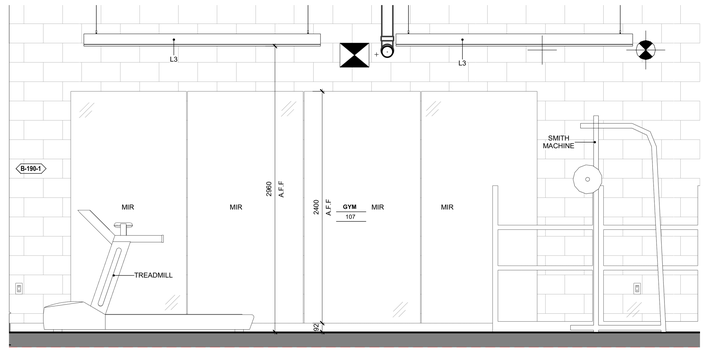

PLOT DATE: 2024/05/06 4:13:56 PM



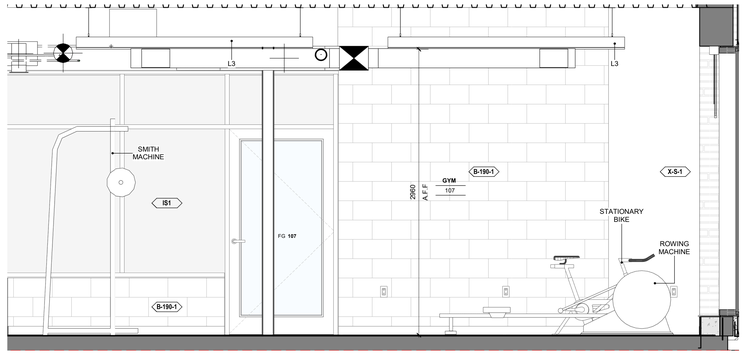

**2** GYM ELEVATION
1 : 25




**1** GYM ELEVATION
1 : 25




**3** GYM ELEVATION
1 : 25

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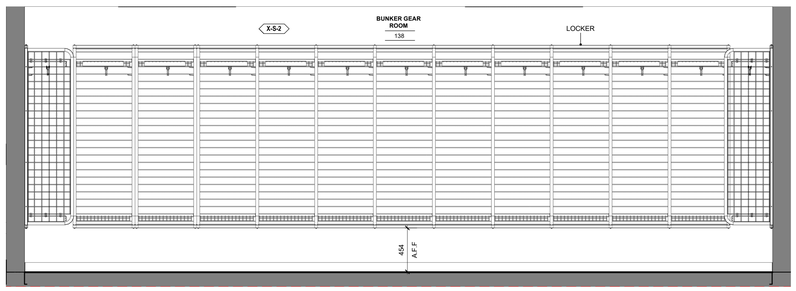
1 : 25




**5** BUNKER GEAR ELEVATION
1 : 25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SEALS

ONTARIO ASSOCIATION OF ARCHITECTS
DAVID PREMI
LICENCE
4315

MISSISSAUGA

**CITY OF MISSISSAUGA FIRE STATION 123**

3050 THE COLLEGEWAY MISSISSAUGA, ONTARIO CANADA

| | |
|---|---|
| **SITE PLAN APPLICATION #** | SP 24-3 |
| **DEVELOPMENT TYPE** | EMERGENCY SERVICES |
| **LEGAL DESCRIPTION** | PART OF BLOCK 124 REGISTERED PLAN 43M-745 |
| **APPLICANT INFO** | DAVID PREMI, 25 MAIN ST. W, SUITE 1800, HAMILTON, ON L8P 1H1<br>905.522.0220 |
| **OWNER INFO** | CITY OF MISSISSAUGA, ADRIANA TANTALO, 300 CITY CENTRE DRIVE<br>905.615.3200 X 3395 |

| NO. | ISSUES/REVISIONS | DATE |
|---|---|---|
| 1 | TENDER | 05/06/24 |
| 0 | BP - RESUBMISSION | 02/23/24 |

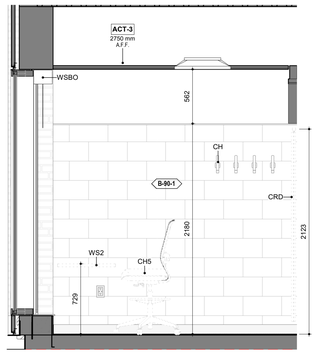
DRAWING TITLE:

**INTERIOR ELEVATIONS**

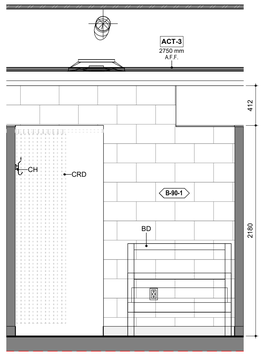
| | |
|---|---|
| ISSUE DATE: | 05/06/24 |
| DRAWN BY: AR | CHECKED BY: SL |
| PROJECT NO.: 12301 | SCALE: 1 : 25 |
| DRAWING NO.: | REVISION: |

**A08.01** **1**

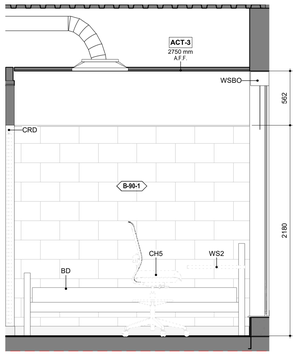

PLOT DATE: 2024-05-02 4:19:01 PM



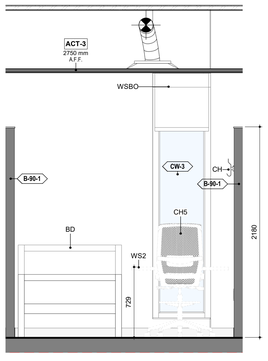

**5** DORM ROOM
1 : 25



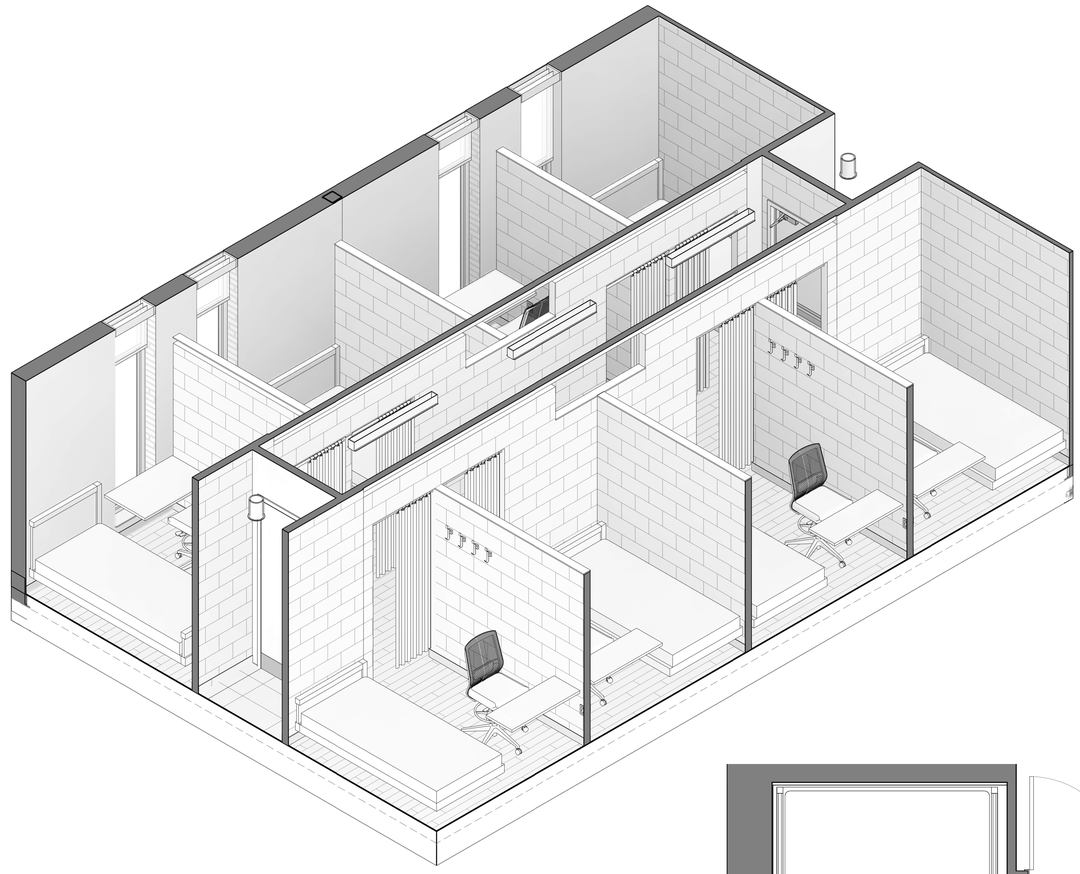

**6** DORM ROOM
1 : 25



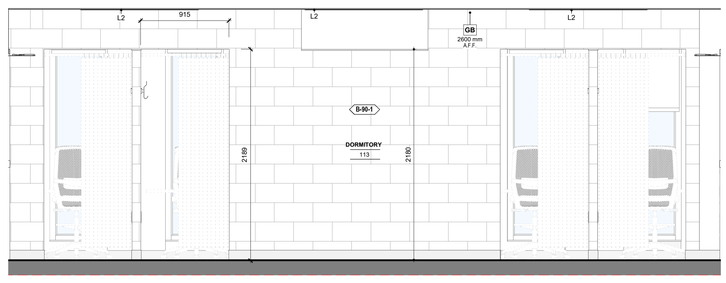

**7** DORM ROOM
1 : 25




**8** DORM ROOM
1 : 25



**1** DORMITORY

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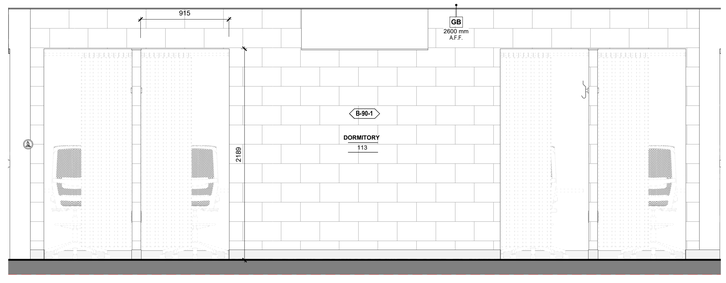
1 : 25

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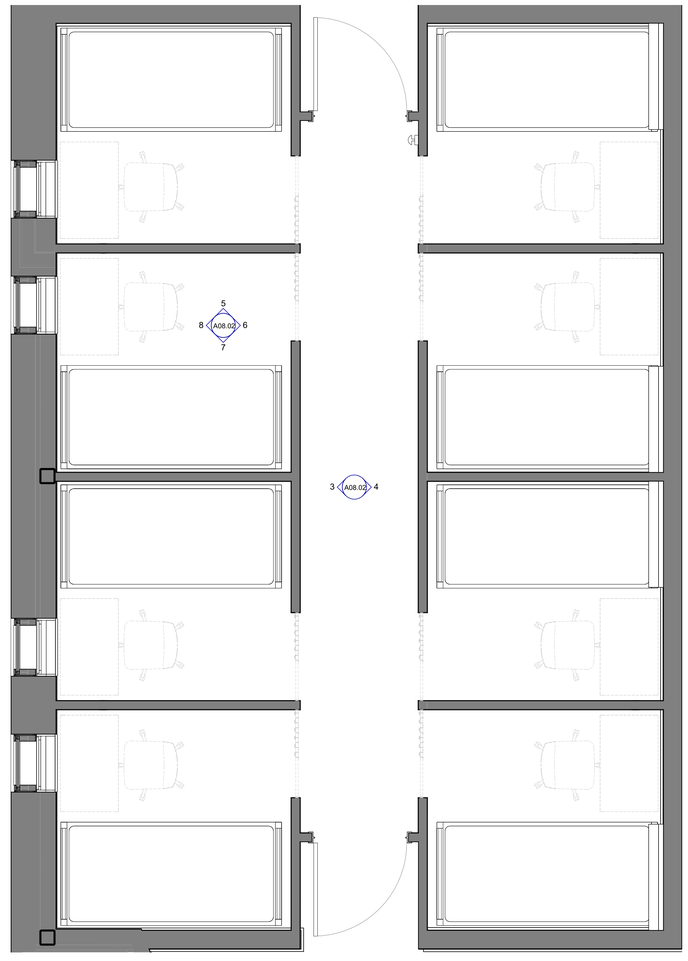


**2** DORMITORY PLAN
1 : 25

[PLOT DATE] 2024-04-05 4:10:21 PM
AR

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SEALS

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4315

MISSISSAUGA

## CITY OF MISSISSAUGA FIRE STATION 123

3050 THE COLLEGEWAY MISSISSAUGA, ONTARIO CANADA

| | |
|---|---|
| **SITE PLAN APPLICATION #** | SP 24-3 |
| **DEVELOPMENT TYPE** | EMERGENCY SERVICES |
| **LEGAL DESCRIPTION** | PART OF BLOCK 124 REGISTERED PLAN 43M-745 |
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| **OWNER INFO** | CITY OF MISSISSAUGA, ADRIANA TANTALO, 300 CITY CENTRE DRIVE<br>905.615.3200 X 3395 |

NO. ISSUES/REVISIONS DATE

DRAWING TITLE:

**DORMITORY PLANS & ELEVATIONS**

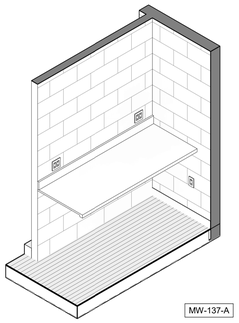
ISSUE DATE:

DRAWN BY: AR CHECKED BY: SL

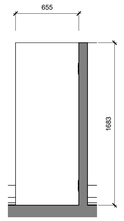
PROJECT NO.: 12301 SCALE: 1 : 25

DRAWING NO.: REVISION:

# A08.02




## 10 LAUNDRY




## 11 LAUNDRY
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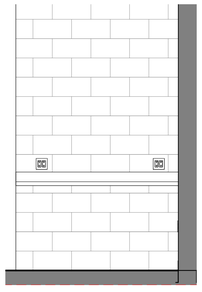

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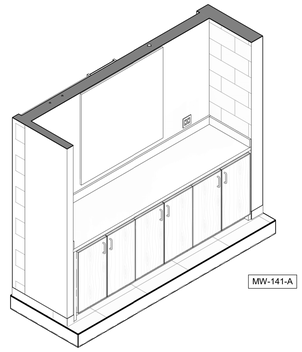
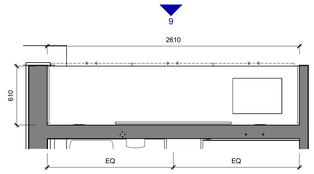
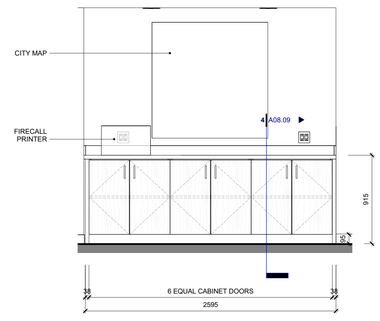


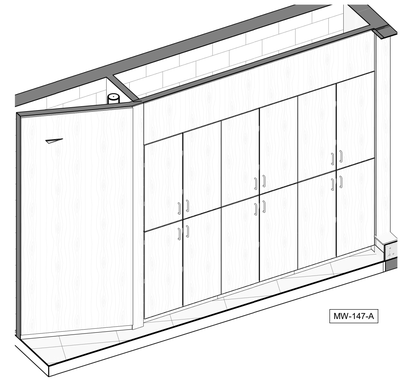

## 7 FIRECALL STATION



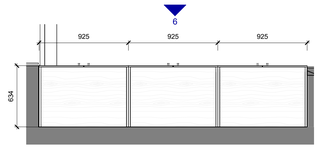

## 8 FIRE CALL PRINTER
1 : 25



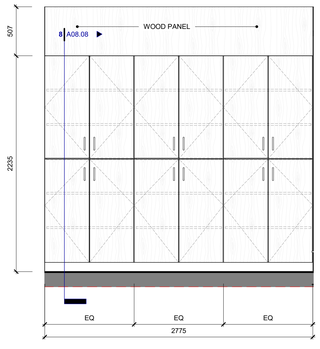

## 9 FIRE CALL PRINTER
1 : 25



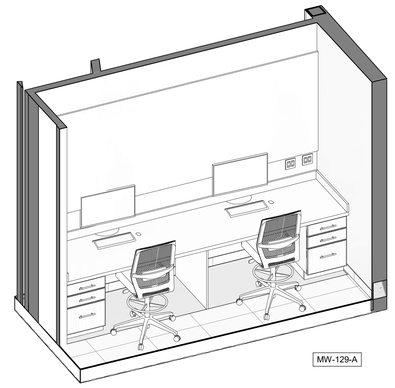

## 4 LINEN STORAGE



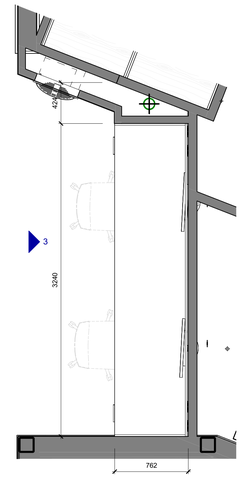

## 5 LINEN STORAGE
1 : 25



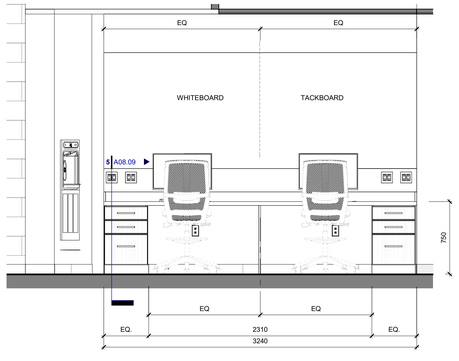

## 6 LINEN STORAGE
1 : 25




## 1 WORKSTATION




## 2 WORKSTATION
1 : 25




## 3 WORKSTATION
1 : 25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DAVID PREMI
LICENCE
4316

MISSISSAUGA

**CITY OF MISSISSAUGA FIRE STATION 123**

3050 THE COLLEGEWAY MISSISSAUGA, ONTARIO CANADA

| | |
|---|---|
| **SITE PLAN APPLICATION #** | SP 24-3 |
| **DEVELOPMENT TYPE** | EMERGENCY SERVICES |
| **LEGAL DESCRIPTION** | PART OF BLOCK 124 REGISTERED PLAN 43M-745 |
| **APPLICANT INFO** | DAVID PREMI, 25 MAIN ST. W, SUITE 1800, HAMILTON, ON L8P 1H1 905.522.0220 |
| **OWNER INFO** | CITY OF MISSISSAUGA, ADRIANA TANTALO, 300 CITY CENTRE DRIVE 905.615.3200 X 3395 |

| NO. | ISSUES/REVISIONS | DATE |
|---|---|---|
| 10 | TENDER | 05/06/24 |
| 9 | SPA RESUBMISSION | 03/12/24 |
| 8 | BP - RESUBMISSION | 02/23/24 |
| 7 | PERMIT | 01/22/24 |
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| 4 | FORMAL SPA | 12/05/23 |
| 3 | MINOR VARIANCE APPLICATION | 09/08/23 |
| 2 | PAM 1 RE-SUBMISSION | 09/07/23 |
| 1 | PRELIMINARY ZONING REVIEW RE-SUBMISSION | 08/02/23 |
| 0 | SPA PRE-CONSULTATION | 03/28/23 |

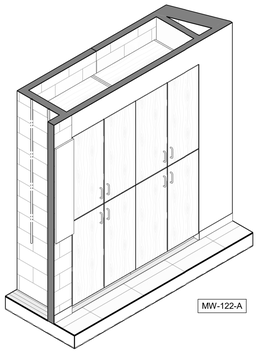
DRAWING TITLE:

**MmillWORK PLANS & ELEVATIONS**

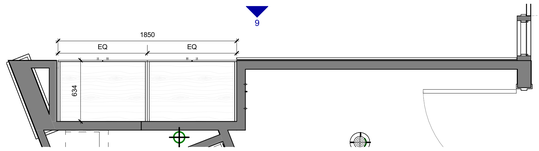
| | |
|---|---|
| ISSUE DATE: | 05/06/24 |
| DRAWN BY: SRL/AF | CHECKED BY: SRL |
| PROJECT NO.: 12301 | SCALE: 1 : 25 |
| DRAWING NO.: | REVISION: |

**A08.03** | **10**

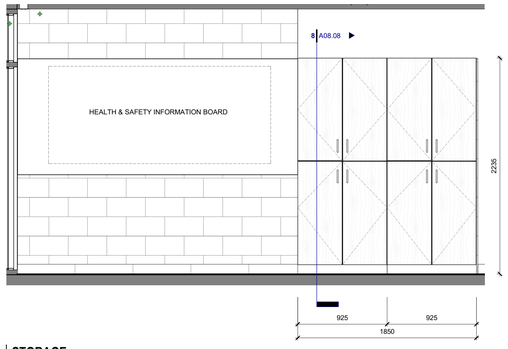
PLOT DATE: 2024-05-06 4:13:58 PM



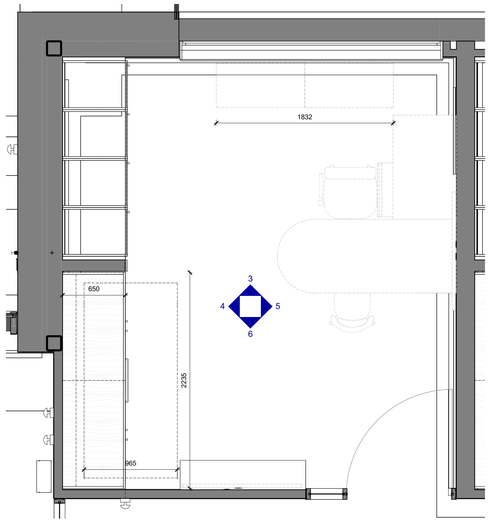

**7** STORAGE



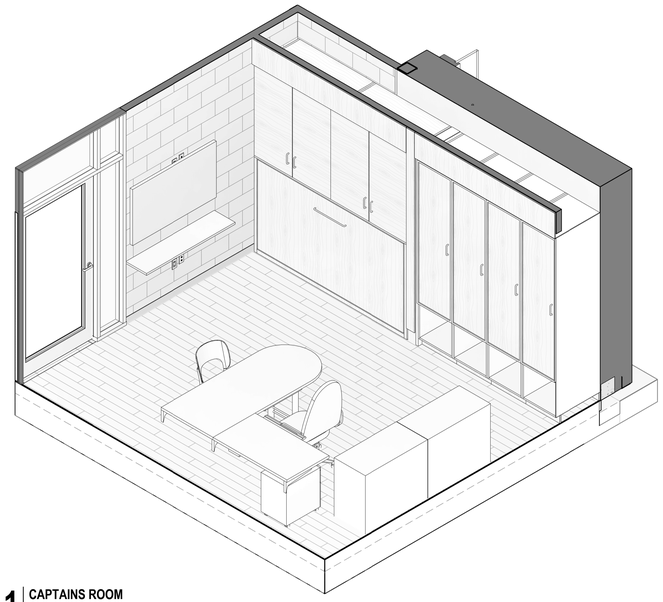

**8** STORAGE
1 : 25



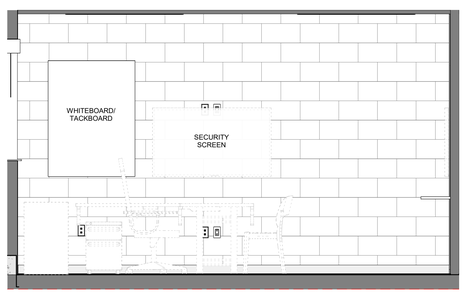

**9** STORAGE
1 : 25



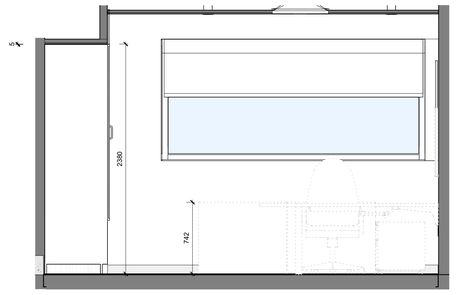

**2** CAPTAINS ROOM
1 : 25



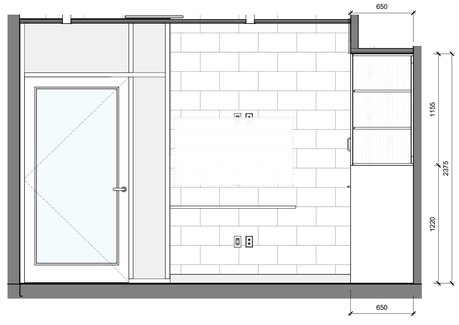
**1** CAPTAINS ROOM



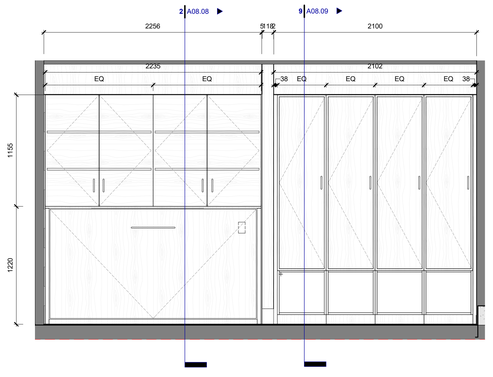

**5** CAPTAINS ROOM
1 : 25




**3** CAPTAINS ROOM
1 : 25




**6** CAPTAINS ROOM
1 : 25




**4** CAPTAINS ROOM
1 : 25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4315

MISSISSAUGA

**CITY OF MISSISSAUGA FIRE STATION 123**

3050 THE COLLEGEWAY MISSISSAUGA, ONTARIO CANADA

| | |
|---|---|
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| 6 | CLASS A ESTIMATE | 01/22/24 |
| 5 | 90% CD SUBMISSION | 1/22/24 |
| 4 | FORMAL SPA | 12/05/23 |
| 3 | MINOR VARIANCE APPLICATION | 09/08/23 |
| 2 | PAM 1 RE-SUBMISSION | 09/07/23 |
| 1 | PRELIMINARY ZONING REVIEW RE-SUBMISSION | 08/02/23 |
| 0 | SPA PRE-CONSULTATION | 03/28/23 |

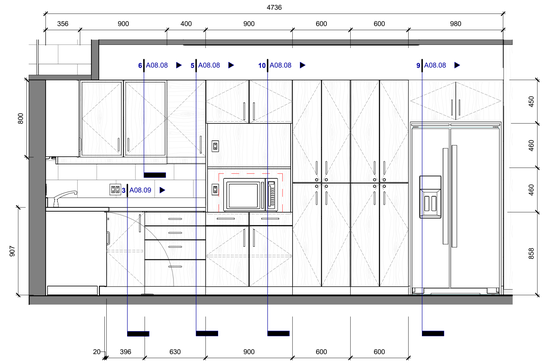
DRAWING TITLE:

**MILLWORK PLANS, ELEVATIONS, & DETAILS**

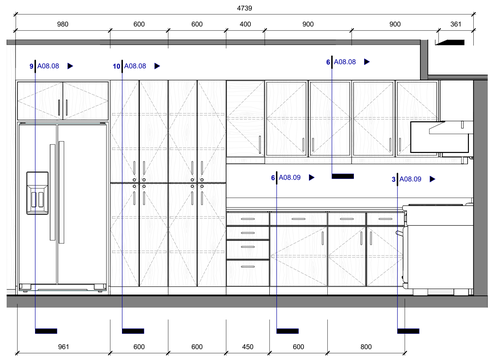
| | |
|---|---|
| ISSUE DATE: | 05/06/24 |
| DRAWN BY: SRL/AF | CHECKED BY: SRL |
| PROJECT NO.: 12301 | SCALE: 1 : 25 |
| DRAWING NO.: | REVISION: |

**A08.04** | **10**


PLOT DATE: 2024-05-08 4:14:02 PM




**3 KITCHEN MILLWORK**
1 : 25

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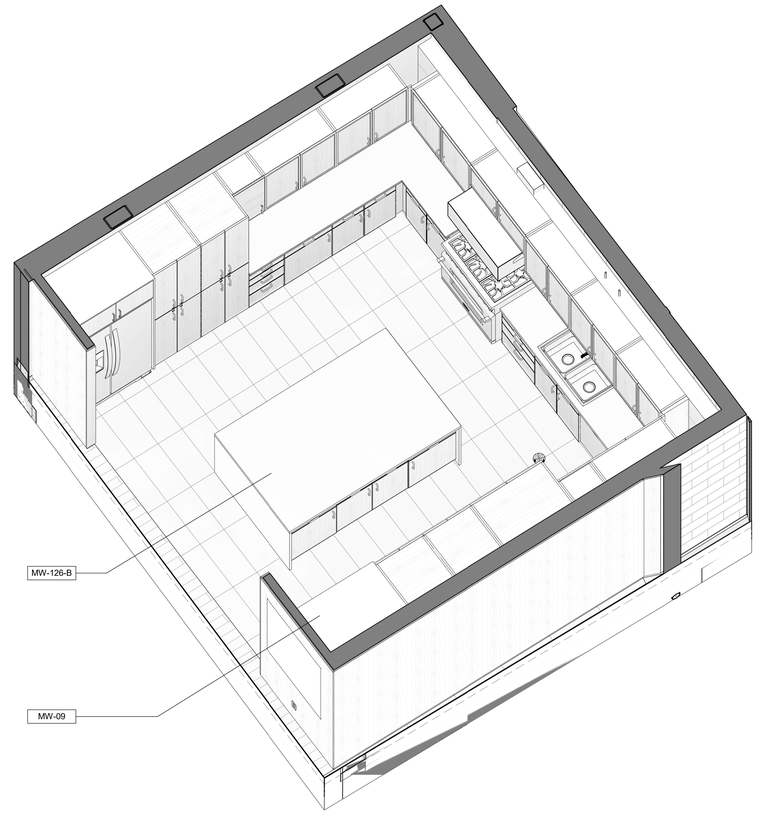
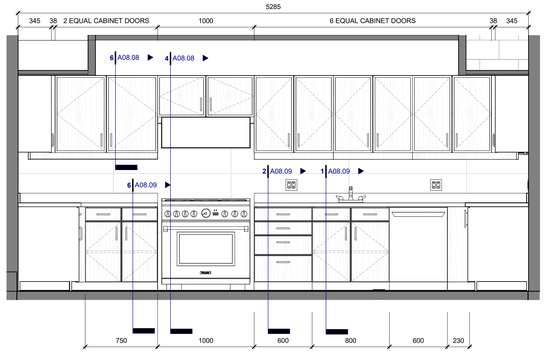
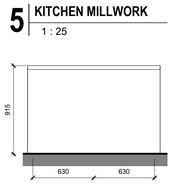
1 : 25



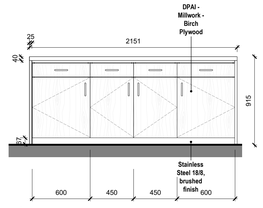

**1 KITCHEN**



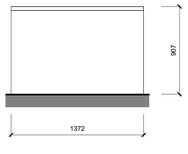

**5 KITCHEN MILLWORK**
1 : 25




**6 KITCHEN ISLAND**
1 : 25




**7 KITCHEN ISLAND**
1 : 25

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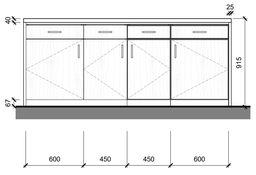
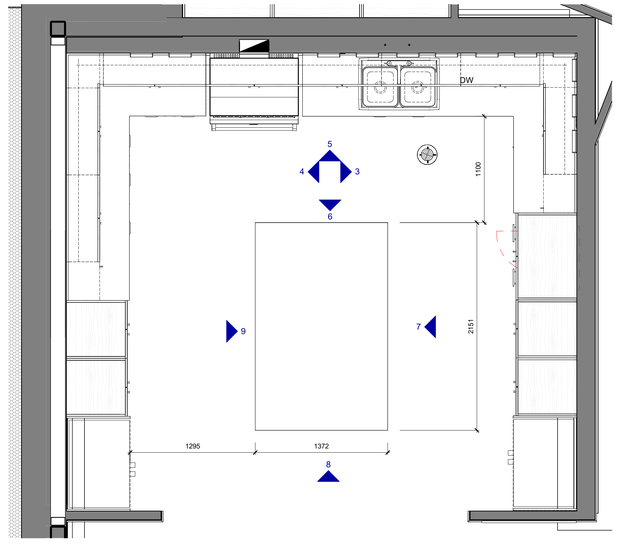
1 : 25




**9 KITCHEN ISLAND**
1 : 25




**2 KITCHEN**
1 : 25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SEALS

ONTARIO ASSOCIATION OF ARCHITECTS
DAVID PREMI
LICENCE
4765

MISSISSAUGA

**CITY OF MISSISSAUGA FIRE STATION 123**

3050 THE COLLEGEWAY MISSISSAUGA, ONTARIO CANADA

| | |
|---|---|
| **SITE PLAN APPLICATION #** | SP 24-3 |
| **DEVELOPMENT TYPE** | EMERGENCY SERVICES |
| **LEGAL DESCRIPTION** | PART OF BLOCK 124 REGISTERED PLAN 43M-745 |
| **APPLICANT INFO** | DAVID PREMI, 25 MAIN ST. W, SUITE 1800, HAMILTON, ON L8P 1H1<br>905.522.0220 |
| **OWNER INFO** | CITY OF MISSISSAUGA, ADRIANA TANTALO, 300 CITY CENTRE DRIVE<br>905.615.3200 X 3395 |

| NO. | ISSUES/REVISIONS | DATE |
|---|---|---|
| 10 | TENDER | 05/06/24 |
| 9 | SPA RESUBMISSION | 03/12/24 |
| 8 | BP - RESUBMISSION | 02/23/24 |
| 7 | PERMIT | 01/22/24 |
| 6 | CLASS A ESTIMATE | 01/22/24 |
| 5 | 90% CD SUBMISSION | 1/22/24 |
| 4 | FORMAL SPA | 12/05/23 |
| 3 | MINOR VARIANCE APPLICATION | 09/08/23 |
| 2 | PAM 1 RE-SUBMISSION | 09/07/23 |
| 1 | PRELIMINARY ZONING REVIEW RE-SUBMISSION | 08/02/23 |
| 0 | SPA PRE-CONSULTATION | 03/28/23 |

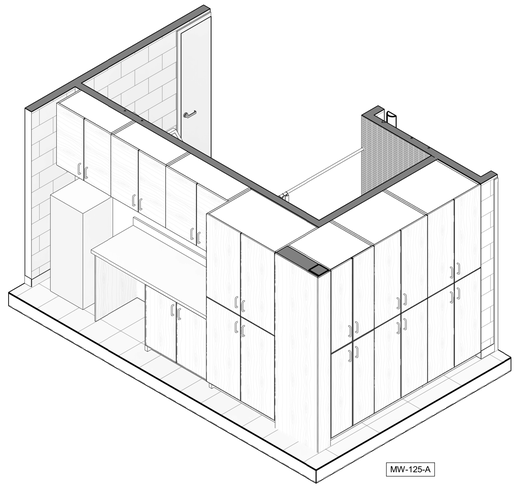
DRAWING TITLE:

**KITCHEN MILLWORK PLANS, ELEVATIONS, & DETAILS**

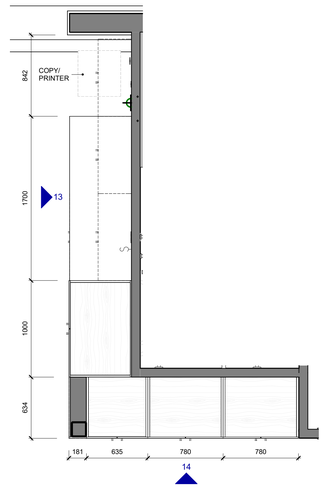
| | |
|---|---|
| ISSUE DATE: | 05/06/24 |
| DRAWN BY: SRL/AF | CHECKED BY: SRL |
| PROJECT NO.: 12301 | SCALE: 1 : 25 |
| DRAWING NO.: | REVISION: |

**A08.05** | **10**

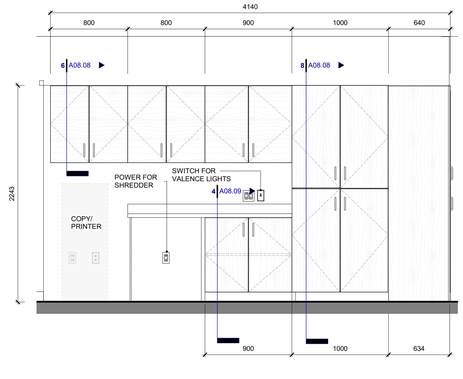

PLOT DATE: 2024-05-06 4:14:07 PM



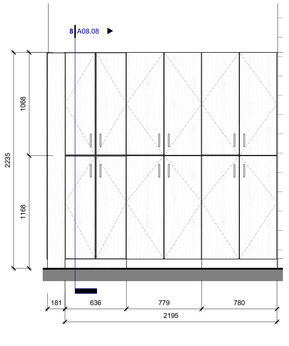

## 12 PRINTER/MEDICAL STORAGE



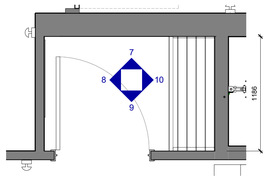

## 11 PRINTER/MEDICAL STORAGE
1 : 25



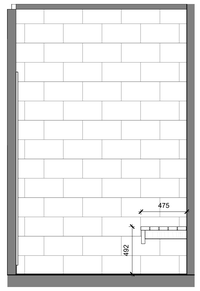

## 13 PRINTER/MEDICAL STORAGE
1 : 25



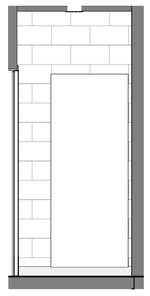

## 14 PRINTER/MEDICAL STORAGE
1 : 25



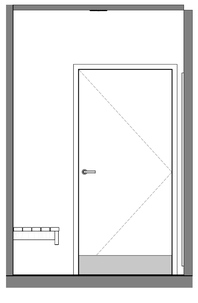

## 6 CHANGEROOM
1 : 25



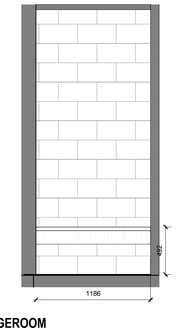

## 7 CHANGEROOM
1 : 25



## 8 CHANGEROOM
1 : 25



## 9 CHANGEROOM
1 : 25

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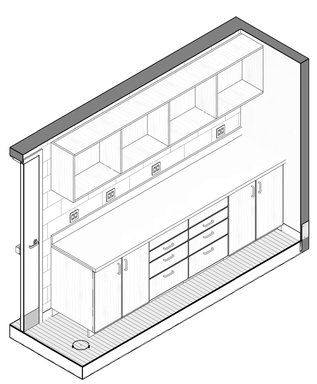
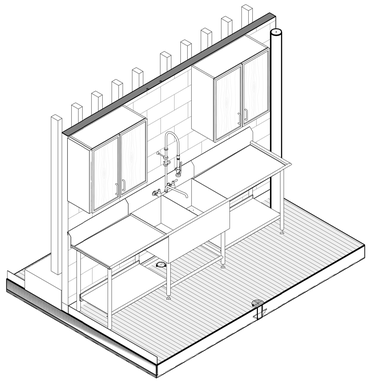
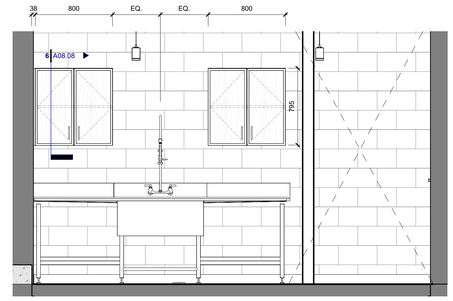
1 : 25



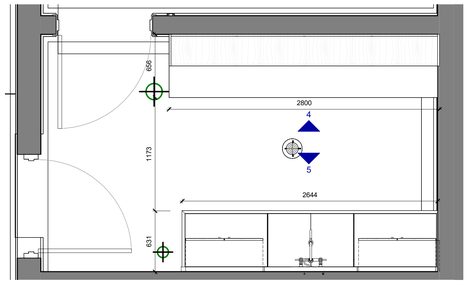
## 2 WORKSHOP



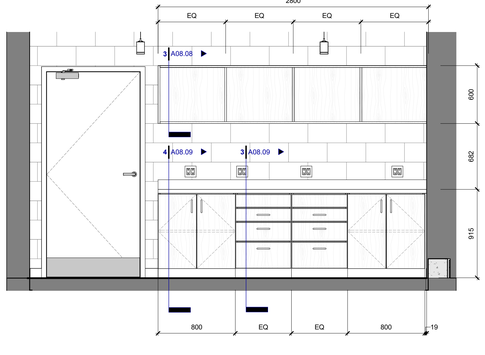
## 1 WORKSHOP




## 5 WORKSHOP
1 : 25




## 3 WORKSHOP
1 : 25




## 4 WORKSHOP
1 : 25

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SEALS

ONTARIO ASSOCIATION OF ARCHITECTS
DAVID PREMI
LICENCE
4315

MISSISSAUGA

**CITY OF MISSISSAUGA FIRE STATION 123**

3050 THE COLLEGEWAY MISSISSAUGA, ONTARIO CANADA

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| 1 | PRELIMINARY ZONING REVIEW RE-SUBMISSION | 08/02/23 |
| 0 | SPA PRE-CONSULTATION | 03/28/23 |

DRAWING TITLE:

**MILLWORK PLANS, ELEVATIONS, & DETAILS**

| | | | |
|---|---|---|---|
| ISSUE DATE: | 05/06/24 | | |
| DRAWN BY: | SRL/AF | CHECKED BY: | SRL |
| PROJECT NO.: | 12301 | SCALE: | 1 : 25 |

DRAWING NO.: **A08.06**

REVISION: **10**

PLOT DATE: 2024/06/14 4:43 PM

## MILLWORK SCHEDULE

REFER MILLWORK DRAWINGS FOR SIZES, DIMENSIONS AND DETAILS.

| ITEM CODE | ITEM TYPE | COUNTERTOP/WORK SURFACE FINISH | FINISHES: DOOR/DRAWER SURFACES | FINISHES: INTERIOR SURFACES | FINISHES: EXPOSED SURFACES | TOE KICK | COMMENTS |
|---|---|---|---|---|---|---|---|
| MW-126-A | UPPER | N/A | PLAM-1 | PLAM-1 | PLAM-1 | N/A | |
| **102** | | | | | | | |
| **DISTRICT CHIEF** | | | | | | | |
| MW-102-A | FULL HEIGHT | N/A | PLAM-1 | PLAM-1 | PLAM-1 | SST | |
| MW-102-A | PANEL | N/A | PLAM-1 | PLAM-1 | PLAM-1 | N/A | |
| **103** | | | | | | | |
| **CAPTAINS OFFICE** | | | | | | | |
| MW-103-A | FULL HEIGHT | N/A | PLAM-1 | PLAM-1 | PLAM-1 | SST | |
| MW-103-A | PANEL | N/A | PLAM-1 | PLAM-1 | PLAM-1 | N/A | |
| **104** | | | | | | | |
| **CAPTAINS OFFICE** | | | | | | | |
| MW-104-A | FULL HEIGHT | N/A | PLAM-1 | PLAM-1 | PLAM-1 | SST | |
| MW-104-A | PANEL | N/A | PLAM-1 | PLAM-1 | PLAM-1 | N/A | |
| **105** | | | | | | | |
| **UNIVERSAL WASHROOM** | | | | | | | |
| MW-105-A | BASE | N/A | PLAM-1 | PLAM-1 | PLAM-1 | SST | |
| MW-105-A | COUNTERTOP | SSUR1 | N/A | N/A | N/A | N/A | |
| **106** | | | | | | | |
| **ACCESS CORRIDOR** | | | | | | | |
| MW-125-A | BASE | N/A | PLAM-1 | PLAM-1 | PLAM-1 | SST | |
| MW-125-A | COUNTERTOP | SSUR1 | N/A | N/A | N/A | N/A | |
| MW-125-A | FULL HEIGHT | N/A | PLAM-1 | PLAM-1 | PLAM-1 | SST | |
| MW-125-A | PANEL | N/A | PLAM-1 | PLAM-1 | PLAM-1 | N/A | |
| MW-125-A | UPPER | N/A | PLAM-1 | PLAM-1 | PLAM-1 | N/A | |
| **108** | | | | | | | |
| **ACCESS CORRIDOR** | | | | | | | |
| MW-125-A | PANEL | N/A | PLAM-1 | PLAM-1 | PLAM-1 | N/A | |
| **115** | | | | | | | |
| **WASHROOM / SHOWER** | | | | | | | |
| MW-115-A | BASE | N/A | PLAM-1 | PLAM-1 | PLAM-1 | SST | |
| MW-115-A | COUNTERTOP | SSUR1 | N/A | N/A | N/A | N/A | |
| MW-115-A | FULL HEIGHT | N/A | PLAM-1 | PLAM-1 | PLAM-1 | SST | |
| **116** | | | | | | | |
| **WASHROOM / SHOWER** | | | | | | | |
| MW-116-A | BASE | N/A | PLAM-1 | PLAM-1 | PLAM-1 | SST | |
| MW-116-A | COUNTERTOP | SSUR1 | N/A | N/A | N/A | N/A | |
| MW-116-A | FULL HEIGHT | N/A | PLAM-1 | PLAM-1 | PLAM-1 | SST | |
| **117** | | | | | | | |
| **WASHROOM / SHOWER** | | | | | | | |
| MW-117-A | BASE | N/A | PLAM-1 | PLAM-1 | PLAM-1 | SST | |
| MW-117-A | COUNTERTOP | SSUR1 | N/A | N/A | N/A | N/A | |
| MW-117-A | FULL HEIGHT | N/A | PLAM-1 | PLAM-1 | PLAM-1 | SST | |
| **118** | | | | | | | |
| **WASHROOM / SHOWER** | | | | | | | |
| MW-118-A | BASE | N/A | PLAM-1 | PLAM-1 | PLAM-1 | SST | |
| MW-118-A | COUNTERTOP | SSUR1 | N/A | N/A | N/A | N/A | |
| MW-118-A | FULL HEIGHT | N/A | PLAM-1 | PLAM-1 | PLAM-1 | SST | |
| **122** | | | | | | | |
| **ACCESS CORRIDOR** | | | | | | | |
| MW-122-A | FULL HEIGHT | N/A | PLAM-1 | PLAM-1 | PLAM-1 | SST | |
| **126** | | | | | | | |
| **KITCHEN** | | | | | | | |
| MW-09 | COUNTERTOP | SSUR1 | N/A | N/A | N/A | N/A | |
| MW-09 | FULL HEIGHT | N/A | PLAM-1 | PLAM-1 | PLAM-1 | SST | |
| MW-09 | PANEL | N/A | PLAM-1 | PLAM-1 | PLAM-1 | N/A | |
| MW-09 | UPPER | N/A | PLAM-1 | PLAM-1 | PLAM-1 | N/A | |
| MW-126-A | BASE | N/A | PLAM-1 | PLAM-1 | PLAM-1 | SST | |
| MW-126-B | BASE | N/A | PLAM-1 | PLAM-1 | PLAM-1 | SST | |
| MW-126-B | COUNTERTOP | SSUR1 | N/A | N/A | N/A | N/A | |
| MW-126-B | PANEL | N/A | PLAM-1 | PLAM-1 | PLAM-1 | N/A | |
| **129** | | | | | | | |
| **COMPUTER WORKSTATION** | | | | | | | |
| MW-129-A | BASE | N/A | PLAM-1 | PLAM-1 | PLAM-1 | SST | |
| MW-129-A | COUNTERTOP | SSUR1 | N/A | N/A | N/A | N/A | |
| **136** | | | | | | | |
| **WORKSHOP** | | | | | | | |
| MW-136-A | UPPER | N/A | PLAM-1 | PLAM-1 | PLAM-1 | N/A | |
| MW-136-B | BASE | N/A | PLAM-1 | PLAM-1 | PLAM-1 | SST | |
| MW-136-B | COUNTERTOP | SST | N/A | N/A | N/A | N/A | |
| MW-136-B | UPPER | N/A | PLAM-1 | PLAM-1 | PLAM-1 | N/A | |
| **137** | | | | | | | |
| **LAUNDRY** | | | | | | | |
| MW-137-A | COUNTERTOP | SST | N/A | N/A | N/A | N/A | |
| **141** | | | | | | | |
| **FIRE CALL PRINTER** | | | | | | | |
| MW-141-A | BASE | N/A | PLAM-1 | PLAM-1 | PLAM-1 | SST | |
| MW-141-A | COUNTERTOP | SSUR1 | N/A | N/A | N/A | N/A | |
| **147** | | | | | | | |
| **LINEN STORAGE** | | | | | | | |
| MW-147-A | FULL HEIGHT | N/A | PLAM-1 | PLAM-1 | PLAM-1 | SST | |

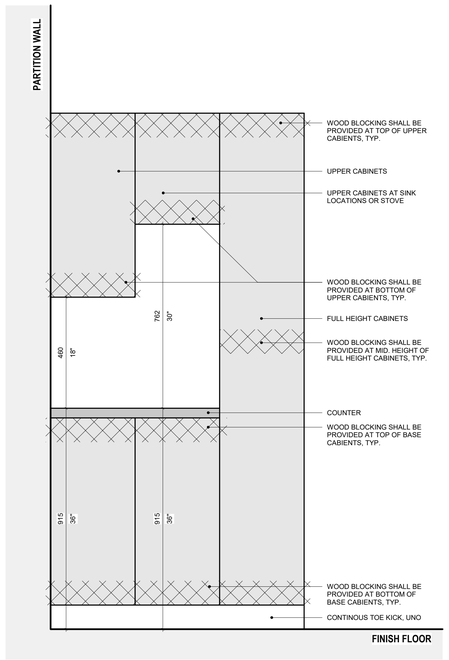
## MILLWORK FINISHES SCHEDULE

| CODE | MANUFACTURER | PRODUCT NUMBER | COLOUR NAME | DESCRIPTION | SIZE | INSTALLATION NOTES | LOCATION | CONTACT | PHONE | EMAIL |
|---|---|---|---|---|---|---|---|---|---|---|
| MILLWORK FINISH | | | | | | | | | | |
| **PLAM-1** | TAFISA | T2006 (VA) | TEA FOR TWO | HPL | VIVA TEXTURE | - | REFER TO MILLWORK DRAWINGS | | | |
| **SST** | STAINLESS STEEL | | | | AS REQUIRED | | REFER TO MILLWORK DRAWINGS | | | |
| **SSUR1** | CAESARSTONE | 4043 | PRIMORDIA | QUARTZ | 20mm | - | REFER TO MILLWORK DRAWINGS | | | |

## MILLWORK HARDWARE SCHEDULE

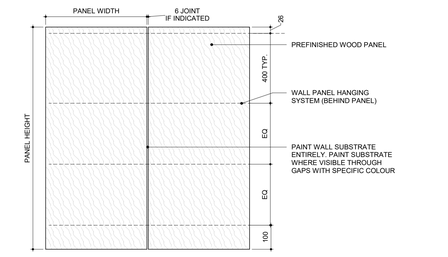
TO BE READ IN CONJUNCTION WITH MILLWORK GENERAL NOTES ON MILLWORK DRAWINGS

| HARDWARE | MANUFACTURER: NAME | MANUFACTURER: MODEL NO. | FINISHES: MATERIAL | FINISHES: FINISH | COMMENTS |
|---|---|---|---|---|---|
| METRO CONTEMPORARY PULL | BERENSON HARDWARE | 4118-1BPN-P | ZINC | BRUSHED NICKEL | QTY AS REQ'D. INSTALL VERTICALLY AS INDICATED IN DRAWINGS AND HORIZONTALLY, CENTRED IN DOORS; |
| COAT ROD | RICHELIEU | - | STEEL | CHROME | QTY AS REQ'D TO SUIT. |
| COAT ROD SUPPORTS - CLOSED | RICHELIEU | - | STEEL | CHROME | QTY AS REQ'D AND SIZED TO SUIT. |
| CAM LOCK | RICHELIEU | GC CHOICE | DIE-CAST ZINC | BRIGHT NICKEL | QTY AS REQ'D TO SUIT. |
| ALUMINUM Z-BAR HANGER | RICHELIEU | GC CHOICE | - | MILL FINISH | QTY AS REQ'D TO SUIT. |

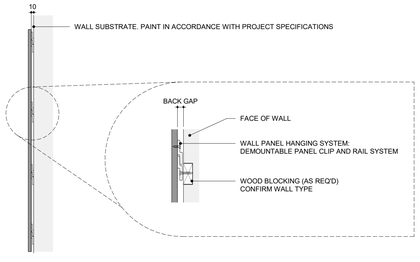



## 3 CW - CASEWORK BLOCKING REQUIREMENTS

1 : 10




ELEVATION




SECTION

1. SHOP DRAWING REQUIRED PRIOR TO FABRICATION
2. ALL WORK TO BE COMPLETED IN ACCORDANCE WITH AWMAC ARCHITECTURAL WOODWORK STANDARDS AS SPECIFIED
3. WALL PANEL HANGING SYSTEM TO BE INSTALLED IN ACCORDANCE WITH MANUFACTURERS RECCOMENDATIONS

## 4 CW - WOOD PANELING

1 : 10

## GENERAL NOTES - MILLWORK

1. ***GENERAL REQUIREMENTS***
   1. ALL ARCHITECTURAL WOODWORK SHALL BE FABRICATED AND INSTALLED IN ACCORDANCE WITH THE REQUIREMENTS OF THE ARCHITECTURAL WOODWORK MANUFACTURERS ASSOCIATION OF CANADA (AWMAC) MANUAL - CURRENT EDITION
   2. ALL ARCHITECTURAL WOODWORK SHALL BE CUSTOM GRADE AS DEFINED BY AWMAC.
   3. ALL CABINET STYLES SHALL BE FLUSH OVERLAY UNLESS SPECIFICALLY NOTED OTHERWISE.
   4. UNDERSIDE OF WALL CABINETS SHALL BE FINISHED TYPE 'A' FLUSH UNLESS OTHERWISE NOTED.
   5. SCRIBES AND FILLERS SHALL HAVE A MAXIMUM DIMENSION OF 75MM IN WIDTH.
   6. MATCHING EDGE BAND SHALL BE SOLID WOOD WITH MIN 6MM EDGE DEPTH OR WHEN MANUFACTURED PANELS ARE SPECIFIED, MATCHING EDGE BAND PROVIDED BY MANUFACTURER
2. ***CABINET CONSTRUCTION***
   1. TOPS, EXPOSED ENDS, BOTTOMS SHALL BE JOINED IN ACCORDANCE WITH CUSTOM GRADE METHODS
   2. EXPOSED END CORNER DETAILS SHALL BE JOINED IN ACCORDANCE WITH CUSTOM GRADE METHODS
   3. FACE FRAME ATTACHMENT SHALL BE JOINED IN ACCORDANCE WITH CUSTOM GRADE METHODS
   4. CABINET BACKS (WALL HUNG) SHALL BE JOINED IN ACCORDANCE WITH CUSTOM GRADE METHODS
   5. CABINET BACKS (FLOOR STANDING) SHALL BE JOINED IN ACCORDANCE WITH CUSTOM GRADE METHODS
3. ***DRAWER CONSTRUCTION***
   1. FRONTS, SIDES BOTTOMS SHALL BE JOINED IN ACCORDANCE WITH CUSTOM GRADE METHODS
4. ***MILLWORK PANEL NOTES***
   1. PANELS THAT HAVE A VISIBLE GRAIN (I.E. WOODS) SHALL BE ORIENTED VERTICALLY UNLESS OTHERWISE NOTED
   2. WHERE MULTIPLE PANELS ARE STACKED VERTICALLY CUT STOCK SO AS TO MAINTAIN CONTINUITY OF GRAIN FROM PANEL TO PANEL.
5. ***SUPPLY AND INSTALL HARDWARE AS FOLLOWS:***
   1. ALL HARDWARE SHALL BE IN ACCORDANCE WITH CUSTOM GRADE AS DEFINED BY AWMAC.
   2. CONCEALED SELF-CLOSING HINGES.
   3. STAINLESS STEEL ROD TYPE DOOR & DRAWER HANDLES AS SCHEDULED.
   4. ALL DRAWERS ON HEAVY DUTY TELESCOPING CUSHIONED ROLLING METAL SLIDES.
   5. RECESSED METAL STANDARDS - ADJUSTABLE C/W REQUIRED NUMBER OF SHELF CLIPS.
   6. PROVIDE KEY LOCKS WHERE INDICATED, EACH LOCK SHALL BE UNIQUE.
   7. ALL HARDWARE SHALL BE RICHELIEU OR EQUIVALENT
   8. ALL MILLWORK HARDWARE SUPPLIED & INSTALLED UNDER MILLWORK CONTRACT.
6. ***FOR DRAWERS DESIGNATED AS FILE DRAWERS:***
   1. CABINETS 450-600mm IN WIDTH - PROVIDE ONE (1) ADJUSTABLE HANGING FILE FRAME PER DRAWER
   2. CABINETS 750-1000mm IN WIDTH - PROVIDE TWO (2) LATERAL HANGING FILEBARS PER DRAWER
   3. NOTE: FILE FRAMES AND FILEBARS SHALL BE SUPPLIED BY LONG LIFE LTD., 407 BIRCHMOUNT ROAD, SCARBOROUGH, ON OR EQUIVALENT
7. ***ABBREVIATIONS:***

| | |
|---|---|
| CF - CABINET FACES | EP - EXPOSED PARTS |
| CB - CABINET BODY | SEP - SEMI-EXPOSED PARTS |
| TK - TOE KICK (LOWER CABINETS ONLY) | CS - CONCEALED SURFACES |
| VA - VALENCE (UPPER CABINETS ONLY) | CP - CABINET PULLS |
| ME(AS) - MATCHING EDGE BAND (ALL SIDES) | ME(ES) - MATCHING EDGE BAND (EXPOSED SIDES) |

1. ***MILLWORK LEGEND***

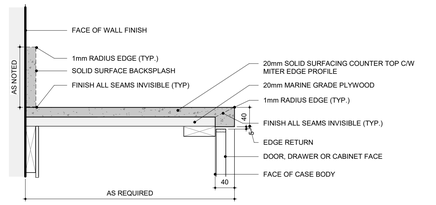
ON DETAIL DRAWINGS, THE FOLLOWING PARTS ARE INDICATED BY PATTERNS:

| | |
|---|---|
| EP - EXPOSED PARTS (PLYWOOD) | - |
| SEP - SEMI-EXPOSED PARTS (PLYWOOD) | - |
| CS - CONCEALED SURFACES (PLYWOOD) | - |
| EP - EXPOSED PARTS (MDF) | - |
| SEP - SEMI-EXPOSED PARTS (MDF) | - |
| CS - CONCEALED SURFACES (MDF) | - |

1. EXPOSED PARTS SHALL BE FINISHED ON BOTH SIDES OF PANELS WITH LIKE MATERIALS AND MATCHING EDGE BAND AS INDICATED
2. SEMI-EXPOSED PARTS SHALL BE FINISHED ON VISIBLE SIDES WITH MATCHING EDGE BAND AS INDICATED. NOTE: ENDS AND TOEKICKS SHALL BE TREATED AS EXPOSED SURFACES WHEN VISIBLE AFTER INSTALLATION.
3. NOTE: WHERE PANEL EDGES ABUT EXPOSED PARTS, EDGE BAND SHALL MATCH EXPOSED PART MATERIAL
4. CONCEALED PARTS CAN BE LEFT IN MILL FINISH.

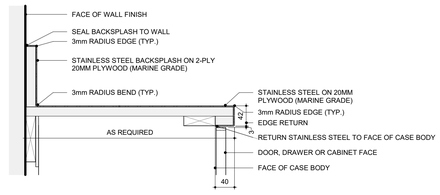
1. ***PANEL NOMINAL THICKNESSES (UNLESS NOTED OTHERWISE)***

| PART | | THICKNESS | MATERIAL |
|---|---|---|---|
| 1. ENDS (GABLES), DIVISIONS, FIXED SHELVES, BOTTOMS, TOPS | - | 19mm | MDF |
| 2. FACE FRAMES, RAILS, TOEKICKS, CABINET BASES, VALENCES | - | 19mm | PLYWOOD |
| 3. SHELVES ADJUSTABLE (ADJ.) | - | 19mm | MDF |
| 4. BACKS | - | 6.4mm | HARD BOARD BACKER |
| 5. MOUNTING OR HANGER STRIPS | - | 12.7mm | PLYWOOD |
| 6. DRAWER SIDES, BACKS, SUBFRONTS | - | 12.7mm | PLYWOOD |
| 7. DRAWER BOTTOMS | - | 6.4mm | PLYWOOD |
| 8. DRAWER FRONTS | - | 19mm | MDF |
| 9. DOORS | - | 19mm | MDF |




## 1 SOLID SURFACING COUNTER TOP

1 : 5




***EXECUTION NOTES***
1. ALL STAINLESS STEEL TO BE 316 GRADE
2. FABRICATE COUNTERTOPS TO MINIMIZE SEAMS. FINISH ALL SEAMS INVISIBLE
3. COORDINATE DIMENSIONS OF ALL APPLIANCES TO ENSURE MINIMUM CLEARANCES ARE MAINTAINED

## 2 STAINLESS STEEL COUNTER TOP

1 : 5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SEALS

ONTARIO ASSOCIATION OF ARCHITECTS — LICENCE 4316

MISSISSAUGA

**CITY OF MISSISSAUGA FIRE STATION 123**

3050 THE COLLEGEWAY MISSISSAUGA, ONTARIO CANADA

| | |
|---|---|
| **SITE PLAN APPLICATION #** | SP 24-3 |
| **DEVELOPMENT TYPE** | EMERGENCY SERVICES |
| **LEGAL DESCRIPTION** | PART OF BLOCK 124 REGISTERED PLAN 43M-745 |
| **APPLICANT INFO** | DAVID PREMI, 25 MAIN ST. W, SUITE 1800, HAMILTON, ON L8P 1H1<br>905.522.0220 |
| **OWNER INFO** | CITY OF MISSISSAUGA, ADRIANA TANTALO, 300 CITY CENTRE DRIVE<br>905.615.3200 X 3395 |

| NO. | ISSUES/REVISIONS | DATE |
|---|---|---|
| 10 | TENDER | 05/06/24 |
| 9 | SPA RESUBMISSION | 03/12/24 |
| 8 | BP - RESUBMISSION | 02/23/24 |
| 7 | PERMIT | 01/22/24 |
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| 5 | 90% CD SUBMISSION | 1/22/24 |
| 4 | FORMAL SPA | 12/05/23 |
| 3 | MINOR VARIANCE APPLICATION | 09/08/23 |
| 2 | PAM 1 RE-SUBMISSION | 09/07/23 |
| 1 | PRELIMINARY ZONING REVIEW RE-SUBMISSION | 08/02/23 |
| 0 | SPA PRE-CONSULTATION | 03/28/23 |

DRAWING TITLE:

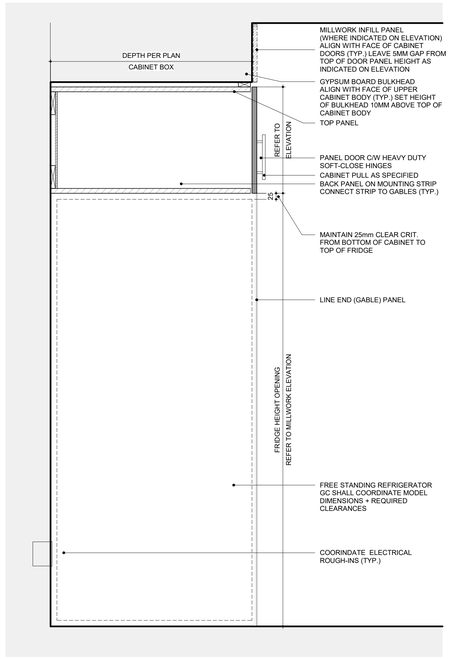
**MILLWORK DETAILS - GENERAL NOTES, COUNTER TOPS, TYPICAL DETAILS**

| | |
|---|---|
| ISSUE DATE: | 05/06/24 |
| DRAWN BY: SRL/AF | CHECKED BY: SRL |
| PROJECT NO.: 12301 | SCALE: As indicated |

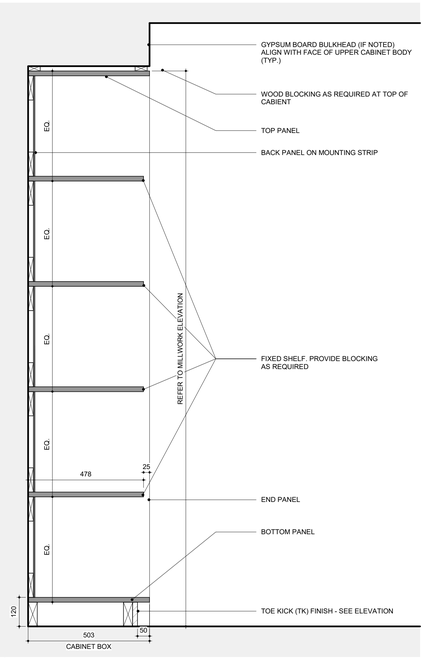
DRAWING NO.: **A08.07**

REVISION: **10**

[PLOT DATE] 2024-05-03 4:14:26 AM




**9** CW - FH - FRIDGE
1 : 10




**7** CW - FH - OPEN LINEN SHELF
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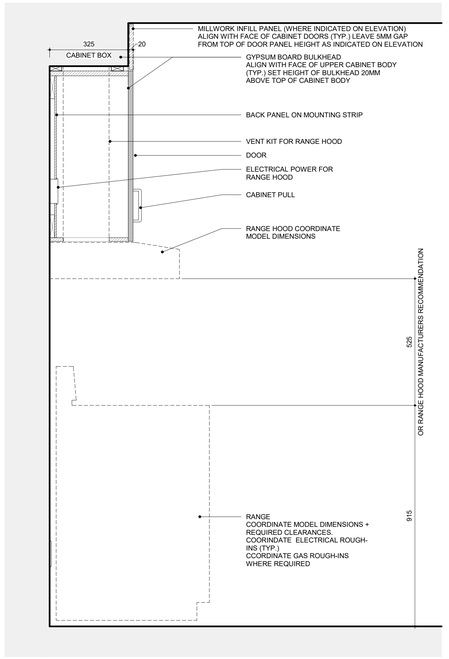
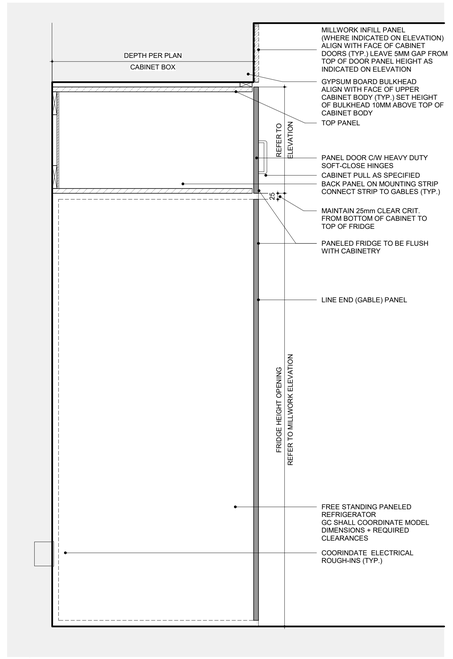



**4** CW - FH - OV - RNGHD - 1 UPPER
1 : 10




**1** CW - FH - FRIDGE - PNL
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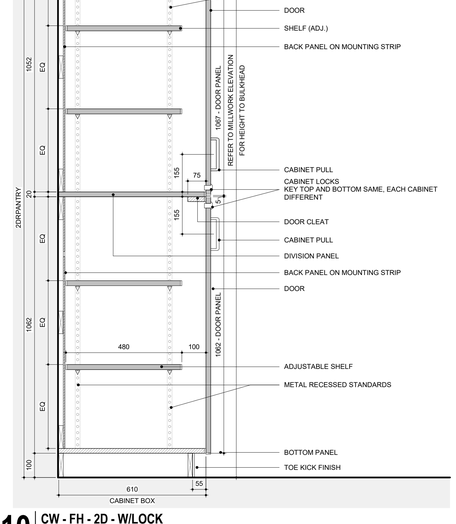
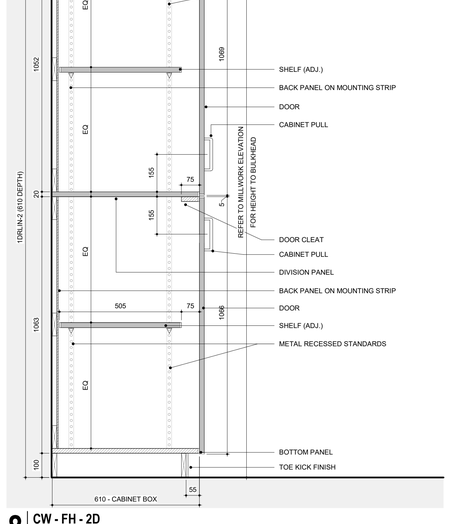



**10** CW - FH - 2D - W/LOCK
1 : 10

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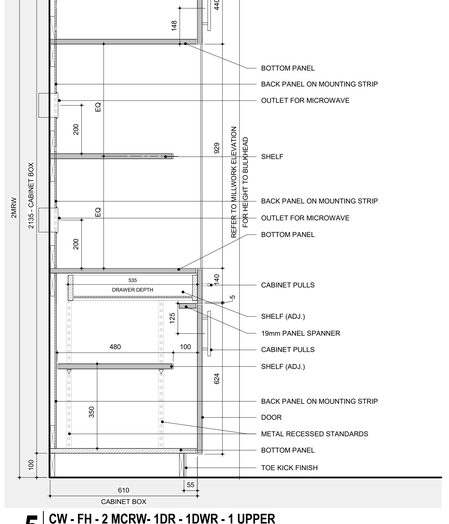
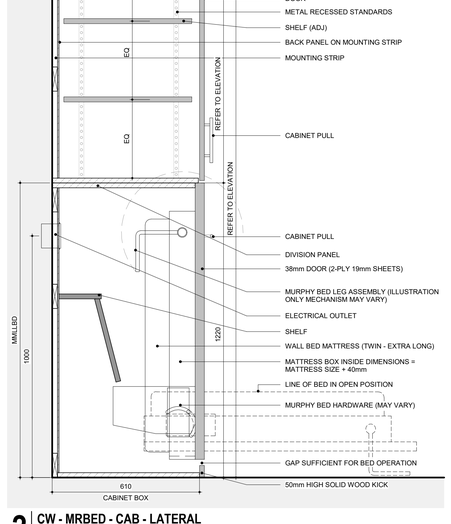
1 : 10




**5** CW - FH - 2 MCRW- 1DR - 1DWR - 1 UPPER
1 : 10

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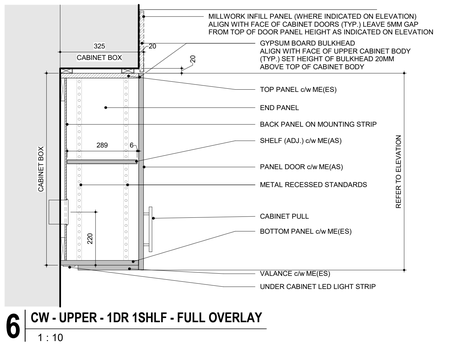
1 : 10

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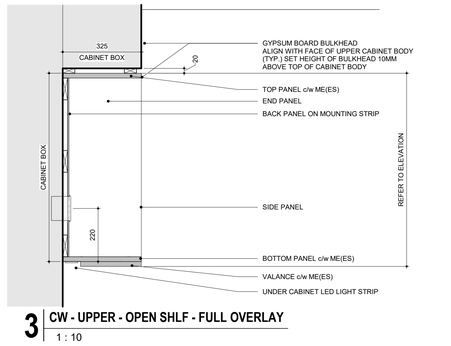
1 : 10




**3** CW - UPPER - OPEN SHLF - FULL OVERLAY
1 : 10

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SEALS

ONTARIO ASSOCIATION OF ARCHITECTS
DAVID PREMI
LICENCE
4705

MISSISSAUGA

**CITY OF MISSISSAUGA FIRE STATION 123**

3050 THE COLLEGEWAY MISSISSAUGA, ONTARIO CANADA

| | |
|---|---|
| **SITE PLAN APPLICATION #** | SP 24-3 |
| **DEVELOPMENT TYPE** | EMERGENCY SERVICES |
| **LEGAL DESCRIPTION** | PART OF BLOCK 124 REGISTERED PLAN 43M-745 |
| **APPLICANT INFO** | DAVID PREMI, 25 MAIN ST. W, SUITE 1800, HAMILTON, ON L8P 1H1 905.522.0220 |
| **OWNER INFO** | CITY OF MISSISSAUGA, ADRIANA TANTALO, 300 CITY CENTRE DRIVE 905.615.3200 X 3395 |

| NO. | ISSUES/REVISIONS | DATE |
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| 3 | MINOR VARIANCE APPLICATION | 09/08/23 |
| 2 | PAM 1 RE-SUBMISSION | 09/07/23 |
| 1 | PRELIMINARY ZONING REVIEW RE-SUBMISSION | 08/02/23 |
| 0 | SPA PRE-CONSULTATION | 03/28/23 |

DRAWING TITLE:

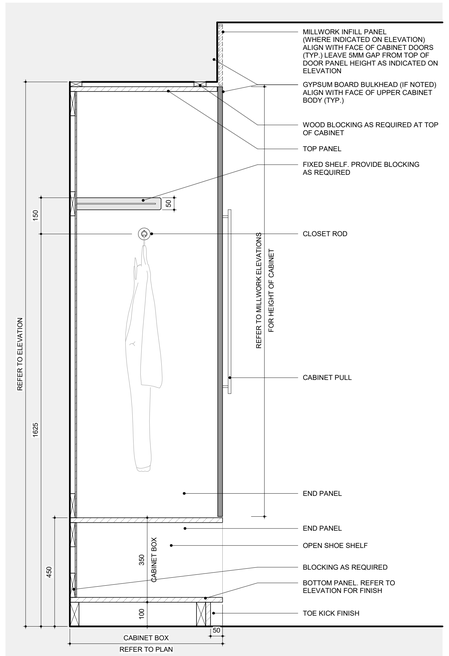
**MILLWORK DETAILS**

| | |
|---|---|
| ISSUE DATE: | 05/06/24 |
| DRAWN BY: SRL/AF | CHECKED BY: SRL |
| PROJECT NO.: 12301 | SCALE: 1 : 10 |

DRAWING NO.: **A08.08**

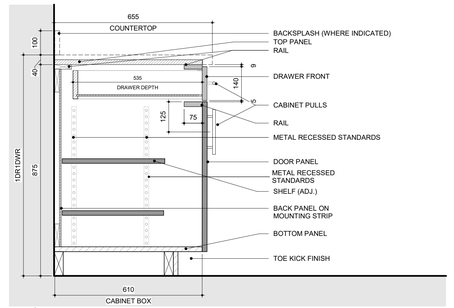
REVISION: **10**

LAST PLOT DATE 2024-05-02 4:14:35 AM



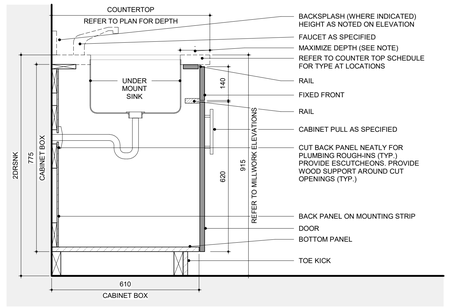

**9** CW - FH - 1DR CLOSET W/OPEN SHLF BASE

1 : 10



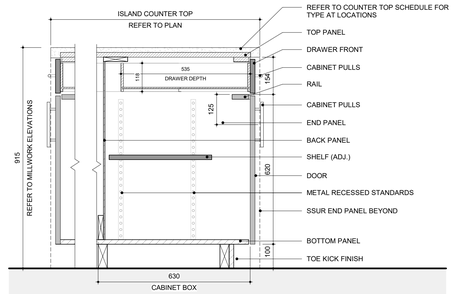

**6** CW - BASE - 1 DR 1 DWR - FULL OVERLAY

1 : 10



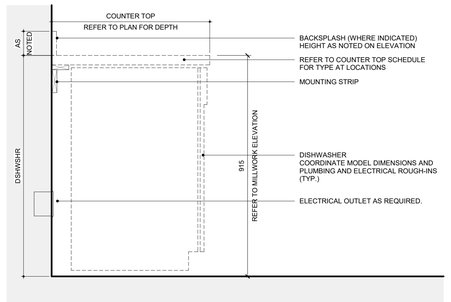

**1** CW - BASE - 2 DR 1 DWR UNDER-MOUNT SINK - FULL OVERLAY

1 : 10



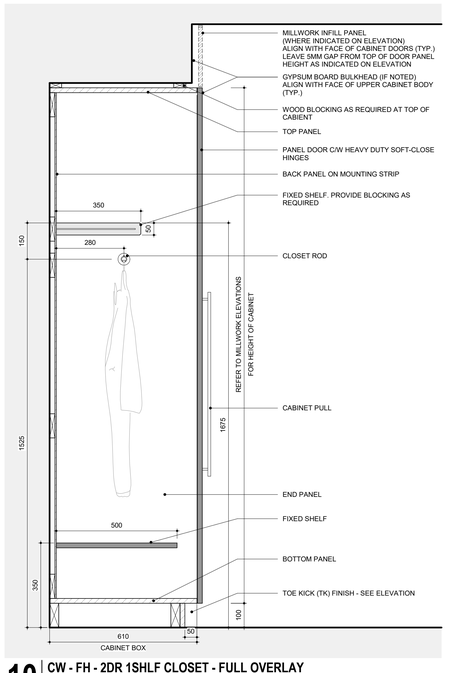

**7** CW - BASE - ISLAND - 1DR 1 DWR - DBL SIDED

1 : 10



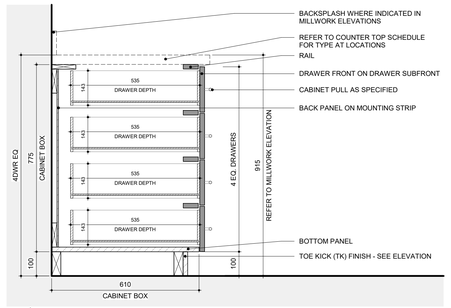

**2** CW - BASE - DSHWSHR

1 : 10



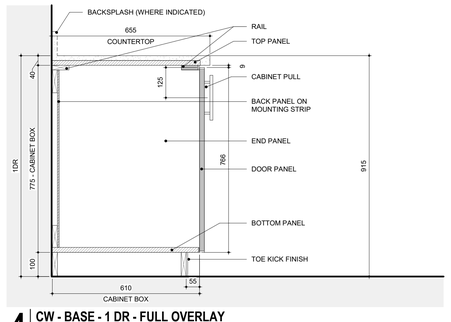

**10** CW - FH - 2DR 1SHLF CLOSET - FULL OVERLAY

1 : 10



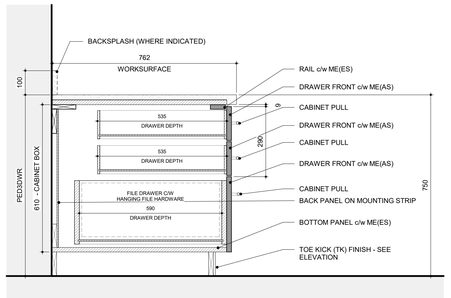

**3** CW - BASE - 4 DWR EQ. - FULL OVERLAY

1 : 10




**4** CW - BASE - 1 DR - FULL OVERLAY

1 : 10




**5** CW - BASE - WORKSURFACE

1 : 10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SEALS

ONTARIO ASSOCIATION OF ARCHITECTS — DAVID PREMI — LICENCE 4705

MISSISSAUGA

**CITY OF MISSISSAUGA FIRE STATION 123**

3050 THE COLLEGEWAY MISSISSAUGA, ONTARIO CANADA

| | |
|---|---|
| **SITE PLAN APPLICATION #** | SP 24-3 |
| **DEVELOPMENT TYPE** | EMERGENCY SERVICES |
| **LEGAL DESCRIPTION** | PART OF BLOCK 124 REGISTERED PLAN 43M-745 |
| **APPLICANT INFO** | DAVID PREMI, 25 MAIN ST. W, SUITE 1800, HAMILTON, ON L8P 1H1 905.522.0200 |
| **OWNER INFO** | CITY OF MISSISSAUGA, ADRIANA TANTALO, 300 CITY CENTRE DRIVE 905.615.3200 X 3395 |

| NO. | ISSUES/REVISIONS | DATE |
|---|---|---|
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| 9 | SPA RESUBMISSION | 03/12/24 |
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| 7 | PERMIT | 01/22/24 |
| 6 | CLASS A ESTIMATE | 01/22/24 |
| 5 | 90% CD SUBMISSION | 1/22/24 |
| 4 | FORMAL SPA | 12/05/23 |
| 3 | MINOR VARIANCE APPLICATION | 09/08/23 |
| 2 | PAM 1 RE-SUBMISSION | 09/07/23 |
| 1 | PRELIMINARY ZONING REVIEW RE-SUBMISSION | 08/02/23 |
| 0 | SPA PRE-CONSULTATION | 03/28/23 |

DRAWING TITLE:

**MILLWORK DETAILS**

| | |
|---|---|
| ISSUE DATE: | 05/06/24 |
| DRAWN BY: AR/AF | CHECKED BY: SRL |
| PROJECT NO.: 12301 | SCALE: 1 : 10 |

DRAWING NO.: **A08.09**

REVISION: **10**

PLOT DATE 2024-05-06 4:14:35 PM

### HM PARTITIONS & CONCRETE/CMU WRAP FRAMES

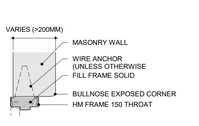
DETAIL FOR WALLS < 200MM
REFER TO WALL THICKNESS ON DOOR SCHEDULE

*HM FRAME TYPE - WRAP (FRAMED WALL)*

DETAIL FOR WALLS < 200MM
REFER TO WALL THICKNESS ON DOOR SCHEDULE

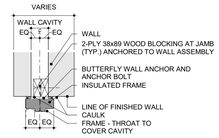
*HM FRAME TYPE - WRAP (MASONRY WALL)*

### HM PARTITIONS & CONCRETE/CMU BUTT FRAMES



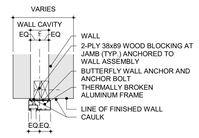

*FOR WALLS > 200MM
REFER TO WALL THICKNESS ON DOOR SCHEDULE

*HM FRAME TYPE - BUTT (MASONRY WALL)*

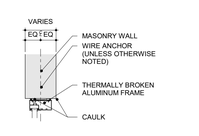



*HM FRAME TYPE - BUTT (EXTERIOR WALL)*

### ALUMINUM BUTT FRAMES




*ALUM FRAME TYPE - BUTT (EXTERIOR WALL)*



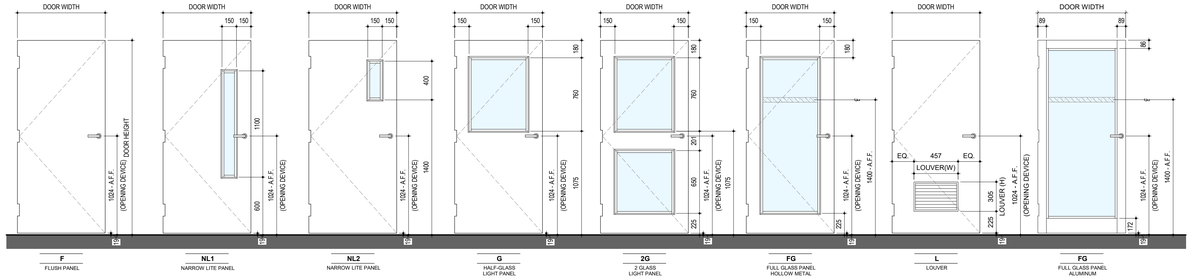

*ALUM FRAME TYPE - BUTT (INTERIOR WALL)*

**GENERAL NOTE**
WALLS SHOWN HERE ARE FOR REFERENCE ONLY. REFER TO FLOOR PLANS FOR WALL TYPES.
REFER TO LIFE SAFETY PLANS FOR LOCATIONS OF RATED WALLS AND DOORS/SCREENS THERE IN.

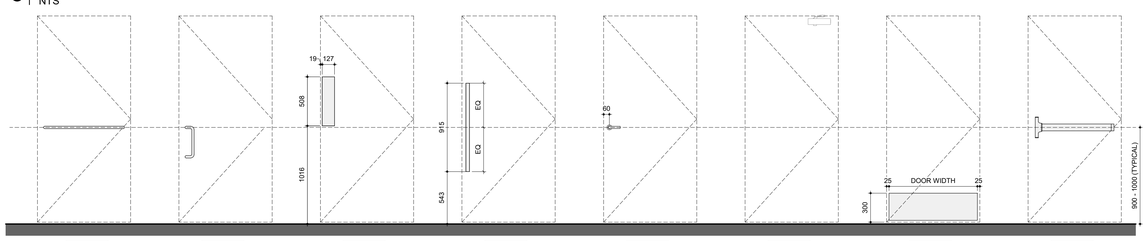
# DOOR & HARDWARE SCHEDULE

| No. | FROM | TO | DESCRIPTION | WIDTH | LEAF 1 | LEAF 2 | HEIGHT | RO WIDTH | RO HEIGHT | DOOR TYPE: TYPE | DOOR TYPE: THICKNESS | DOOR TYPE: DOOR MATERIAL | DOOR TYPE: DOOR FINISH | DOOR TYPE: INSULATION | DOOR TYPE: GLAZING | DOOR TYPE: LOUVER | FRAME TYPE | FRAME MATERIAL | FRAME FINISH | FIRE + SMOKE REQ.: FIRE RATING | FIRE + SMOKE REQ.: SMOKE SEAL | BF DOOR OPERATION: AUTODOOR OPERATOR | BF DOOR OPERATION: ELECTRIC STRIKE | BF DOOR OPERATION: ACTUATOR BUTTON | BF DOOR OPERATION: PUSH TO LOCK | DOOR OPERATION: DOOR CLOSER | DOOR OPERATION: DOOR LEVER | DOOR OPERATION: VERTICAL PULL | DOOR OPERATION: 'D' PULL | DOOR OPERATION: DOOR PUSH BAR | DOOR OPERATION: PANIC HARDWARE | DOOR OPERATION: KICK PLATE | DOOR OPERATION: PUSH PLATE | SECURITY: CARD READER | SECURITY: DOOR BELL | SECURITY: DOOR CONTACT | SECURITY: ELECTRIC STRIKE | SECURITY: KEY PAD | SECURITY: REX | ACCESSORIES: ASTRAGAL | ACCESSORIES: THRESHOLD | ACCESSORIES: TRANSITION STRIP | ACCESSORIES: WEATHER STRIP | ACCESSORIES: DOOR SWEEP | ACCESSORIES: WALL STOP | ACCESSORIES: FLOOR STOP | ACCESSORIES: SIGNAGE | LOCKSET: STOREROOM | LOCKSET: OFFICE / PRIVACY | LOCKSET: PASSAGE | COMMENTS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Exterior | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| AL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 100A | EXTERIOR | VESTIBULE | EXTERIOR SWING SINGLE | 1100 | 1100 | | 2150 | 1100 | 2150 | FG | 51 | AL | PREFIN | | ● | ● | BUTT | AL | AL | | | ● | ● | ● | | ● | | ● | | ● | | | | | | | | | | | | | | | ● | | ● | |
| 112A | STAFF VESTIBULE | EXTERIOR | EXTERIOR SWING SINGLE | 1100 | 1100 | | 2150 | 1100 | 2150 | FG | 51 | AL | PREFIN | | ● | ● | BUTT | AL | AL | | | ● | ● | ● | | ● | | ● | | | ● | ● | | ● | ● | ● | ● | | ● | | | | | | | |
| HM | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 128 | DAYROOM LOUNGE | EXTERIOR | EXTERIOR SWING SINGLE | 1100 | 1100 | | 2135 | 1208 | 2189 | FG | 44 | HM | PNT | ● | ● | | DFR 01 | HM | PNT | | | | | | | ● | ● | | | | ● | ● | | ● | ● | ● | | ● | | | | | | ● | | ● | |
| 130E | APPARATUS BAY | EXTERIOR | EXTERIOR SWING SINGLE | 1100 | 1100 | | 2150 | 1208 | 2204 | NL1 | 44 | HM | PNT | ● | ● | | DFR 01 | HM | PNT | | | | | | | | ● | | | | ● | ● | | ● | ● | ● | | ● | | | | | | ● | | ● | |
| 133A | BAY VESTIBULE | EXTERIOR | EXTERIOR SWING SINGLE | 1100 | 1100 | | 2150 | 1208 | 2204 | NL1 | 44 | HM | PNT | ● | ● | | DFR 01 | HM | PNT | | | ● | ● | ● | | | ● | | | | ● | ● | | ● | ● | ● | | ● | | | | | | ● | | ● | |
| 142B | OUTDOOR STORAGE | EXTERIOR | EXTERIOR SWING DOUBLE | 1930 | 965 | 965 | 2135 | 2038 | 2189 | F | 44 | HM | PNT | ● | | | DFR 01 | HM | PNT | | | | | | | ● | ● | | | | ● | ● | | ● | ● | ● | | ● | | | | | | ● | | ● | |
| MTL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 130A | APPARATUS BAY | EXTERIOR | FOUR-FOLD | 4200 | | | 4200 | 4230 | 4230 | FFD | 50 | MTL | PREFIN | ● | ● | | N/A | MTL | PNT | | | | | | | | ● | | | | | ● | | | | | | ● | | | | | | | | | | |
| 130B | APPARATUS BAY | EXTERIOR | FOUR-FOLD | 4200 | | | 4200 | 4230 | 4230 | FFD | 50 | MTL | PREFIN | ● | ● | | N/A | MTL | PNT | | | | | | | | ● | | | | | ● | | | | | | ● | | | | | | | | | | |
| 130C | APPARATUS BAY | EXTERIOR | FOUR-FOLD | 4200 | | | 4200 | 4230 | 4230 | FFD | 50 | MTL | PREFIN | ● | ● | | N/A | MTL | PNT | | | | | | | | ● | | | | | ● | | | | | | ● | | | | | | | | | | |
| 130D | APPARATUS BAY | EXTERIOR | FOUR-FOLD | 4200 | | | 4200 | 4230 | 4230 | FFD | 50 | MTL | PREFIN | ● | ● | | N/A | MTL | PNT | | | | | | | | ● | | | | | ● | | | | | | ● | | | | | | | | | | |
| Interior | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| AL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 100B | VESTIBULE | ACCESS CORRIDOR | INTERIOR SWING SINGLE | 1100 | 1100 | | 2150 | 1100 | 2150 | FG | 51 | AL | AL | | ● | | BUTT | AL | AL | | | ● | ● | ● | | ● | | ● | | | ● | ● | | ● | ● | ● | | ● | | | | | | ● | | ● | |
| 107 | GYM | ACCESS CORRIDOR | INTERIOR SWING SINGLE | 1100 | 1100 | | 2150 | 1100 | 2150 | FG | 51 | AL | AL | | ● | | BUTT | AL | AL | | | | | | | ● | ● | | | | | | | | | | | | ● | | | | | | ● | |
| 112B | ACCESS CORRIDOR | STAFF VESTIBULE | INTERIOR SWING SINGLE | 1100 | 1100 | | 2150 | 1100 | 2150 | FG | 51 | AL | AL | | ● | | BUTT | AL | AL | | | ● | ● | ● | | | ● | | ● | | | ● | | | | | | | | | | | | | ● | |
| HM | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 105 | ACCESS CORRIDOR | UNIVERSAL WASHROOM | INTERIOR SWING SINGLE | 965 | 965 | | 2135 | 999 | 2152 | F | 44 | HM | PNT | | | | DFR 02 | HM | PNT | | | ● | ● | ● | ● | ● | ● | | | | | ● | | | | | | | | | | | | | ● | | | |
| 108A | ACCESS CORRIDOR | ACCESS CORRIDOR | INTERIOR SWING SINGLE | 965 | 965 | | 2135 | 999 | 2152 | F | 44 | HM | PNT | | | | DFR 02 | HM | PNT | | | ● | ● | ● | | ● | ● | | | | | ● | | | | | | | | | | ● | | | ● | | |
| 108B | DORMITORY | ACCESS CORRIDOR | INTERIOR SWING SINGLE | 965 | 965 | | 2135 | 999 | 2152 | F | 44 | HM | PNT | ● | | | DFR 02 | HM | PNT | | | ● | ● | ● | | ● | ● | | | | | ● | | | | | | | | | | ● | | | ● | | |
| 110 | ACCESS CORRIDOR | JANITORS CLO. | INTERIOR SWING SINGLE | 965 | 965 | | 2135 | 999 | 2152 | F | 44 | HM | PNT | | | | DFR 02 | HM | PNT | 0hr | ● | | | | | ● | ● | | | | | ● | | | | | | | | | | ● | | | ● | | |
| 115 | ACCESS CORRIDOR | WASHROOM / SHOWER | INTERIOR SWING SINGLE | 965 | 965 | | 2135 | 999 | 2152 | F | 44 | HM | PNT | | | | DFR 02 | HM | PNT | | | | | | | ● | ● | | | | | ● | | | | | | | | | | | | ● | | | |
| 116 | ACCESS CORRIDOR | WASHROOM / SHOWER | INTERIOR SWING SINGLE | 965 | 965 | | 2135 | 999 | 2152 | F | 44 | HM | PNT | | | | DFR 02 | HM | PNT | | | | | | | ● | ● | | | | | ● | | | | | | | | | | | | ● | | | |
| 117 | ACCESS CORRIDOR | WASHROOM / SHOWER | INTERIOR SWING SINGLE | 965 | 965 | | 2135 | 999 | 2152 | F | 44 | HM | PNT | | | | DFR 02 | HM | PNT | | | | | | | ● | ● | | | | | ● | | | | | | | | | | | | ● | | | |
| 118 | ACCESS CORRIDOR | WASHROOM / SHOWER | INTERIOR SWING SINGLE | 965 | 965 | | 2135 | 999 | 2152 | F | 44 | HM | PNT | | | | DFR 02 | HM | PNT | | | | | | | ● | ● | | | | | ● | | | | | | | | | | | | ● | | | |
| 119 | APPARATUS BAY | LOCKER ROOM | INTERIOR SWING SINGLE | 965 | 965 | | 2135 | 1073 | 2189 | FG | 44 | HM | PNT | | ● | | DFR 01 | HM | PNT | 1.5hr | ● | | | | | ● | ● | | | | | ● | | | | | | | | | | ● | ● | | ● | | |
| 120 | LOCKER ROOM | CHANGE ROOM | INTERIOR SWING SINGLE | 965 | 965 | | 2135 | 999 | 2152 | F | 44 | HM | PNT | | | | DFR 02 | HM | PNT | | | | | | | ● | | | | | | ● | | | | | | | | | | | | ● | | | |
| 121 | LOCKER ROOM | CHANGE ROOM | INTERIOR SWING SINGLE | 965 | 965 | | 2135 | 999 | 2152 | F | 44 | HM | PNT | | | | DFR 02 | HM | PNT | | | | | | | ● | | | | | | ● | | | | | | | | | | | | ● | | | |
| 122A | I.T. ROOM | ACCESS CORRIDOR | INTERIOR SWING SINGLE | 965 | 965 | | 2135 | 999 | 2152 | F | 44 | HM | PNT | | | | DFR 02 | HM | PNT | | | | | | | ● | ● | | | | | ● | | | | | | | | | | | | ● | | | |
| 122B | ACCESS CORRIDOR | ACCESS CORRIDOR | INTERIOR SWING SINGLE | 965 | 965 | | 2135 | 999 | 2152 | F | 44 | HM | PNT | | | | DFR 02 | HM | PNT | | | | | | | ● | | | | | | ● | | | | | | | | | | | | ● | | | |
| 130 | ACCESS CORRIDOR | APPARATUS BAY | INTERIOR SWING SINGLE | 1100 | 1100 | 0 | 2150 | 1100 | 2150 | FG | 44 | HM | AL | | ● | ● | BUTT | HM | AL | | ● | | | | | ● | | | | | ● | ● | | | | | | | | | | | | ● | | | |
| 131 | APPARATUS BAY | JANITORS | INTERIOR SWING SINGLE | 965 | 965 | | 2135 | 999 | 2152 | F | 44 | HM | PNT | | | | DFR 02 | HM | PNT | 1.5hr | ● | | | | | ● | | | | | | ● | | | | | | | | | | ● | | | ● | | |
| 132 | MECHANICAL ROOM | APPARATUS BAY | INTERIOR SWING SINGLE | 965 | 965 | | 2135 | 1073 | 2189 | F | 44 | HM | PNT | | | | DFR 01 | HM | PNT | 1.5hr | ● | | | | | ● | | | | | | ● | | | | | | | | | | | | | | | |
| 133B | BAY VESTIBULE | ACCESS CORRIDOR | INTERIOR SWING SINGLE | 1074 | 1100 | 0 | 2150 | 1100 | 2150 | FG | 44 | HM | AL | | ● | ● | BUTT | HM | AL | 1hr | ● | ● | ● | ● | | ● | | | | | ● | ● | | | | | | | | | | | | ● | | | |
| 134 | ELECTRICAL ROOM | WATER METER / SPRINKLER ROOM | INTERIOR SWING SINGLE | 965 | 965 | | 2135 | 999 | 2152 | F | 44 | HM | PNT | | | | DFR 02 | HM | PNT | 45min | | | | | | ● | | | | | | ● | | | | | | | | | | | | ● | | | |
| 135B | ELECTRICAL ROOM | WORKSHOP | INTERIOR SWING SINGLE | 965 | 965 | | 2135 | 999 | 2152 | F | 44 | HM | PNT | | | | DFR 02 | HM | PNT | 45min | ● | | | | | ● | | | | | | ● | | | | | | | | | | | | ● | | | |
| 136A | APPARATUS BAY | WORKSHOP | INTERIOR SWING SINGLE | 965 | 965 | | 2135 | 1073 | 2189 | F | 44 | HM | PNT | | | | DFR 01 | HM | PNT | | | | | | | ● | | | | | | ● | | | | | | | | | | | | ● | | | |
| 137 | APPARATUS BAY | LAUNDRY | INTERIOR SWING SINGLE | 965 | 965 | | 2135 | 1073 | 2189 | F | 44 | HM | PNT | | | | DFR 01 | HM | PNT | | | | | | | ● | | | | | | ● | | | | | | | | | | | | ● | | | |
| 138 | BUNKER GEAR ROOM | APPARATUS BAY | INTERIOR SWING SINGLE | 965 | 965 | | 2135 | 1073 | 2189 | F | 44 | HM | PNT | | | | DFR 01 | HM | PNT | | | | | | | ● | | | | | | ● | | | | | | | | | | | | ● | | | |
| 140 | APPARATUS BAY | COMPRESSOR ROOM | INTERIOR SWING SINGLE | 965 | 965 | | 2135 | 1073 | 2189 | F | 44 | HM | PNT | | | | DFR 01 | HM | PNT | | | | | | | ● | | | | | | ● | | | | | | | | | | | | ● | | | |
| 142A | MATERIAL STORAGE | OUTDOOR STORAGE | INTERIOR SWING SINGLE | 965 | 965 | | 2135 | 999 | 2152 | F | 44 | HM | PNT | | | | DFR 02 | HM | PNT | | | | | | | ● | | | | | | ● | | | | | | | | | | | | ● | | | |
| 143 | DORMITORY | ACCESS CORRIDOR | INTERIOR SWING SINGLE | 965 | 965 | | 2135 | 999 | 2152 | F | 44 | HM | PNT | ● | | | DFR 02 | HM | PNT | | | | | | | ● | | | | | | ● | | | | | | | | | | | | ● | | | |
| SWC | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 102 | DISTRICT CHIEF | ACCESS CORRIDOR | INTERIOR SWING SINGLE | 1100 | 1100 | | 2150 | 1100 | 2150 | F | 51 | SWC | PLAM | | | | BUTT | AL | AL | | | ● | ● | ● | | | ● | | | | | | | | | | | | | | | | | ● | | ● | |
| 103 | CAPTAINS OFFICE | ACCESS CORRIDOR | INTERIOR SWING SINGLE | 1100 | 1100 | | 2150 | 1100 | 2150 | F | 51 | SWC | PLAM | | | | BUTT | AL | AL | | | | | | | | ● | | | | | | | | | | | | | | | | | ● | | ● | |
| 104 | ACCESS CORRIDOR | CAPTAINSOFFICE | INTERIOR SWING SINGLE | 1100 | 1100 | | 2150 | 1100 | 2150 | F | 51 | SWC | PLAM | | | | BUTT | AL | AL | | | | | | | | ● | | | | | | | | | | | | | | | | | ● | | ● | |

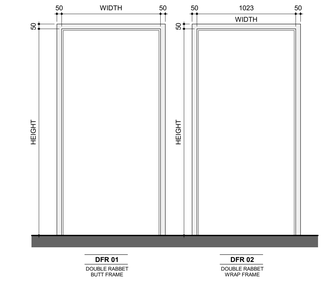
## 2 FRAME / JAMB TYPES
NTS



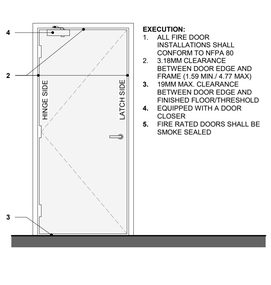

## 3 DOOR PANEL TYPES
NTS




## 4 DOOR HARDWARE TYPES & HEIGHTS
1 : 25

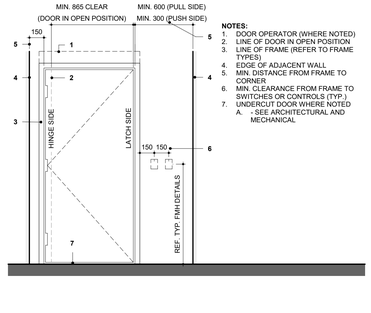



## 7 FRAME TYPES
NTS




**EXECUTION:**
1. ALL FIRE DOOR INSTALLATIONS SHALL CONFORM TO NFPA 80
2. 3.18MM CLEARANCE BETWEEN DOOR EDGE AND FRAME (1.59 MIN / 4.77 MAX)
3. 19MM MAX. CLEARANCE BETWEEN DOOR EDGE AND FINISHED FLOOR/THRESHOLD
4. EQUIPPED WITH A DOOR CLOSER
5. FIRE RATED DOORS SHALL BE SMOKE SEALED

## 6 FIRE RATED DOOR REQUIREMENTS
NTS

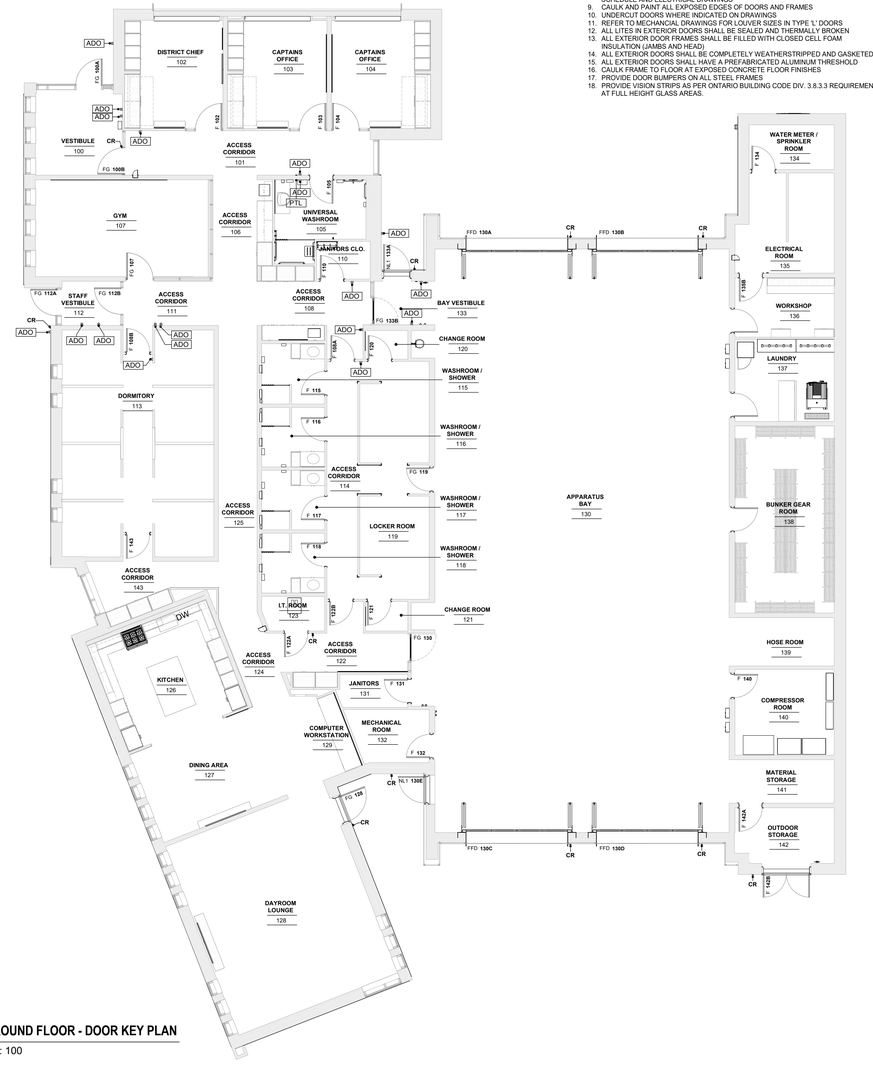



**NOTES:**
1. DOOR OPERATOR (WHERE NOTED)
2. LINE OF DOOR IN OPEN POSITION
3. LINE OF FRAME (REFER TO FRAME TYPES)
4. EDGE OF ADJACENT WALL
5. MIN. DISTANCE FROM FRAME TO CORNER
6. MIN. CLEARANCE FROM FRAME TO SWITCHES OR CONTROLS (TYP.)
7. UNDERCUT DOOR WHERE NOTED
   A. - SEE ARCHITECTURAL AND MECHANICAL

## 5 TYPICAL DOOR INSTALLATION DETAILS
NTS

### DOOR TYPE QTY

| TYPE | DOOR PANEL | QTY |
|---|---|---|
| Exterior | | |
| AL | | |
| Exterior | FG | 2 |
| HM | | |
| Exterior | F | 1 |
| Exterior | FG | 1 |
| Exterior | NL1 | 2 |
| MTL | | |
| Exterior | FFD | 4 |
| Interior | | |
| AL | | |
| Interior | FG | 3 |
| HM | | |
| Interior | F | 22 |
| Interior | FG | 3 |
| SWC | | |
| Interior | F | 3 |
| Grand total: 41 | | |




## 1 GROUND FLOOR - DOOR KEY PLAN
1 : 100

### ABBREVIATIONS

| | |
|---|---|
| AL | ALUMINUM |
| AN | ANODIZED |
| WD | WOOD (SOLID PARTICLE BOARD CORE) |
| HM | HOLLOW METAL |
| BUTT | BUTT-FRAME INSTALLATION |
| WRAP | WRAP-FRAME INSTALLATION |
| PNT | PAINTED |
| CSL | CONCEALED FRAME |
| CW | EXTERIOR ALUMINUM FRAMES |
| IS | INTERIOR ALUMINUM FRAMES |

### GENERAL NOTES - DOORS, FRAMES, & HARDWARE

1. *GENERAL REQUIREMENTS*
   1. IT IS THE RESPONSIBILITY OF THE DOOR, FRAME, WINDOW, CURTAIN WALL & HARDWARE MANUFACTURER TRADES TO CO-ORDINATE & EXECUTE THEIR WORK TOGETHER.
   2. DIMENSIONS INDICATED R.O - INDICATE ROUGH OPENING. GENERAL CONTRACTOR SHALL VERIFY ALL OPENINGS ON SITE PRIOR TO FRABRICATION AND ORDERING.
2. *SHOP DRAWINGS*
   1. SHOP DRAWINGS ARE REQUIRED PRIOR TO FABRICATION.
   2. IT IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO ENSURE; DOOR(S), SCREEN(S), WINDOW(S), CURTAIN WALL(S), FRAME(S), AND THIER HARDWARE MANUFACTURERS TRADES COORDINATE & EXECUTE THIER WORK TOGETHER & LABEL IDENTIFYING INFORMATION FOR ALL DOOR(S), SCREEN(S), WINDOW(S), CURTAIN WALL(S), FRAME(S) SCHEDULES TO MATCH THE IDENTIFICATION TAG LABLES HERE, NOT HAVING DIFFERENT LABELS & DIMENSIONAL UNITS ON SHOP DRAWINGS THAN TENDERED DOCUMENTS. (REVISE & RESUBMIT SHOP DRAWINGS WILL BE RETURNED IF THIS FORMAT IS NOT FOLLOWED WITH NO REVIEW UNDERTAKEN BY THE CONSULANT TEAM)
   3. SUBMIT SHOP DRAWINGS FOR DOORS, FRAMES AND SCREENS CLEARLY INDICATING PROFILES, ANCHORS, CONSTRUCTION, FIRE RATING, GLAZING STOPS DETAILS, PREPARATION AND REINFORCEMENT OF MANUAL AND ELECTRONIC HARDWARE AND SECURITY DEVICES AND OTHER INFORMATION REQUIRED FOR PROPER COORDINATION AND INSTALLATION OF DOORS, FRAMES AND SCREENS WITH THE WORK.
   4. SHOP DRAWINGS SHALL REFERENCE DOOR TYPE PANEL ELEVATIONS AS SHOWN.
   5. REFER TO SPECIFICATION FOR DOOR HARDWARE SCHEDULE. THIS SCHEDULE IS PROVIDED TO ASSIST THE CONTRACTOR WITH THE TENDER AND THE WORK. THE INFORMATION PERTAINING TO DOORS AND FRAMES ON DRAWINGS, HARDWARE SCHEDULE AND IN THE SPECIFICATIONS SHALL BE INCLUDED AS PART OF THE WORK. IN THE CARE OF DISCREPANCY BETWEEN ANY OF THE CONTRACT DOCUMENTS THE CONTRACTOR SHALL CLARIFY AND RECONCILE THE DISCREPANCY WITH THE CONSULTANT PRIOR TO COMMENCING THE WORK.
3. *FIRE RATING AND SMOLE SEALS*
   1. CONFIGURE FRAME AND DOOR PROTECTION FOR DOORS WITH DOOR SEALS SO AS TO NOT COMPROMISE SEAL.
   2. ALL DOORS AND FRAMES IN RATED ASSEMBLIES SHALL BE APPROPRIATELY LABELLED
   3. PROVIDE DOOR SEALS AT ALL FIRE RATED DOORS.
   4. PROVIDE RATED DOOR FRAMES, DOOR PANELS, GLAZING AND FRAMES AT INTERIOR SCREENS TO SUIT INDICATED FIRE SEPARATIONS. USE FIRELITE GLASS WHERE INDICATED GLASS SIZE EXCEEDS MAXIMUM AREAS FOR TEMPERED GLASS AT RATED DOORS.
   5. ALL FIRE RATED DOORS AND SCREENS W/ CLAZING SHALL HAVE "FIRELITE" GLAZING AS REQUIRED.
   6. ALL NON RATED GLAZING SHALL BE TEMPERED.
   7. ALL EXTERIOR DOOR GLAZING SHALL BE LAMINATED SAFETY GLASS
4. *EXECUTION*
   1. ALL NEW HOLLOW METAL FRAMES AND DOORS PANELS SHALL BE PAINTED.
   2. ALL DOORS AND FRAMES SHALL BE PREPARED AND REINFORCED FOR SPECIFIED HARDWARE AND ACCESSORIES.
   3. CONTRACTOR TO SITE VERIFY AS-BUILT ROUGH OPENING SIZES AND WALL THICKNESS FOR WRAP AROUND FRAMES PRIOR TO FABRICATION OF FRAMES.
   4. COORDINATE PREPARATION AND INSTALLATION OF DOORS AND HARDWARE WITH ELECTRICAL DIVISION AND CONCEALING OF ELECTRONIC JUNCTION BOXES, CONDUITS AND WIRING IN DOOR FRAMING.
   5. ALL DOORS DESIGNATED WITH ELECTRICAL AND SECURITY CLOSURE SHALL HAVE FRAMES PRE-DRILLED TO RECEIVE SUCH DEVICES.
   6. WHERE DOOR LITES ARE PRESENT, THEY SHALL NOT BE MORE THAN 900mm AFF UNLESS NOTED OTHERWISE
   7. PROVIDE PREFABRICATED LITES c/w STAINLESS STEEL FRAME AND INTEGRAL BLINDS WHERE SPECIFIED. SUBSTITUTIONS FOR HOLLOW METAL FRAMED LITES WILL NOT BE ACCEPTED
   8. PREPARE DOORS TO RECEIVE HARDWARE AS INDICATED ON FINISH HARDWARE SCHEDULE AND ELECTRICAL DRAWINGS
   9. CAULK AND PAINT ALL EXPOSED EDGES OF DOORS AND FRAMES
   10. UNDERCUT DOORS WHERE INDICATED ON DRAWINGS
   11. REFER TO MECHANICAL DRAWINGS FOR LOUVER SIZES IN TYPE 'L' DOORS
   12. ALL LITES IN EXTERIOR DOORS SHALL BE SEALED AND THERMALLY BROKEN
   13. ALL EXTERIOR DOOR FRAMES SHALL BE FILLED WITH CLOSED CELL FOAM INSULATION (JAMBS AND HEAD)
   14. ALL EXTERIOR DOORS SHALL BE COMPLETELY WEATHERSTRIPPED AND GASKETED
   15. ALL EXTERIOR DOORS SHALL HAVE A PREFABRICATED ALUMINUM THRESHOLD
   16. CAULK FRAME TO FLOOR AT EXPOSED CONCRETE FLOOR FINISHES
   17. PROVIDE DOOR BUMPERS ON ALL STEEL FRAMES
   18. PROVIDE VISION STRIPS AS PER ONTARIO BUILDING CODE DIV. 3.8.3.3 REQUIREMENTS AT FULL HEIGHT GLASS AREAS.

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SEALS

ONTARIO ASSOCIATION OF ARCHITECTS
DAVID PREMI
LICENCE 4316

MISSISSAUGA

**CITY OF MISSISSAUGA FIRE STATION 123**

3050 THE COLLEGEWAY MISSISSAUGA, ONTARIO CANADA

| | |
|---|---|
| **SITE PLAN APPLICATION #** | SP 24-3 |
| **DEVELOPMENT TYPE** | EMERGENCY SERVICES |
| **LEGAL DESCRIPTION** | PART OF BLOCK 124 REGISTERED PLAN 43M-745 |
| **APPLICANT INFO** | DAVID PREMI, 25 MAIN ST. W, SUITE 1800, HAMILTON, ON L8P 1H1 905.522.0220 |
| **OWNER INFO** | CITY OF MISSISSAUGA, ADRIANA TANTALO, 300 CITY CENTRE DRIVE 905.615.3200 X 3395 |

| NO. | ISSUES/REVISIONS | DATE |
|---|---|---|
| 10 | TENDER | 05/06/24 |
| 9 | SPA RESUBMISSION | 03/12/24 |
| 8 | BP - RESUBMISSION | 02/23/24 |
| 7 | PERMIT | 01/22/24 |
| 6 | CLASS A ESTIMATE | 01/22/24 |
| 5 | 90% CD SUBMISSION | 1/22/24 |
| 4 | FORMAL SPA | 12/05/23 |
| 3 | MINOR VARIANCE APPLICATION | 09/08/23 |
| 2 | PAM 1 RE-SUBMISSION | 09/07/23 |
| 1 | PRELIMINARY ZONING REVIEW RE-SUBMISSION | 08/02/23 |
| 0 | SPA PRE-CONSULTATION | 03/28/23 |

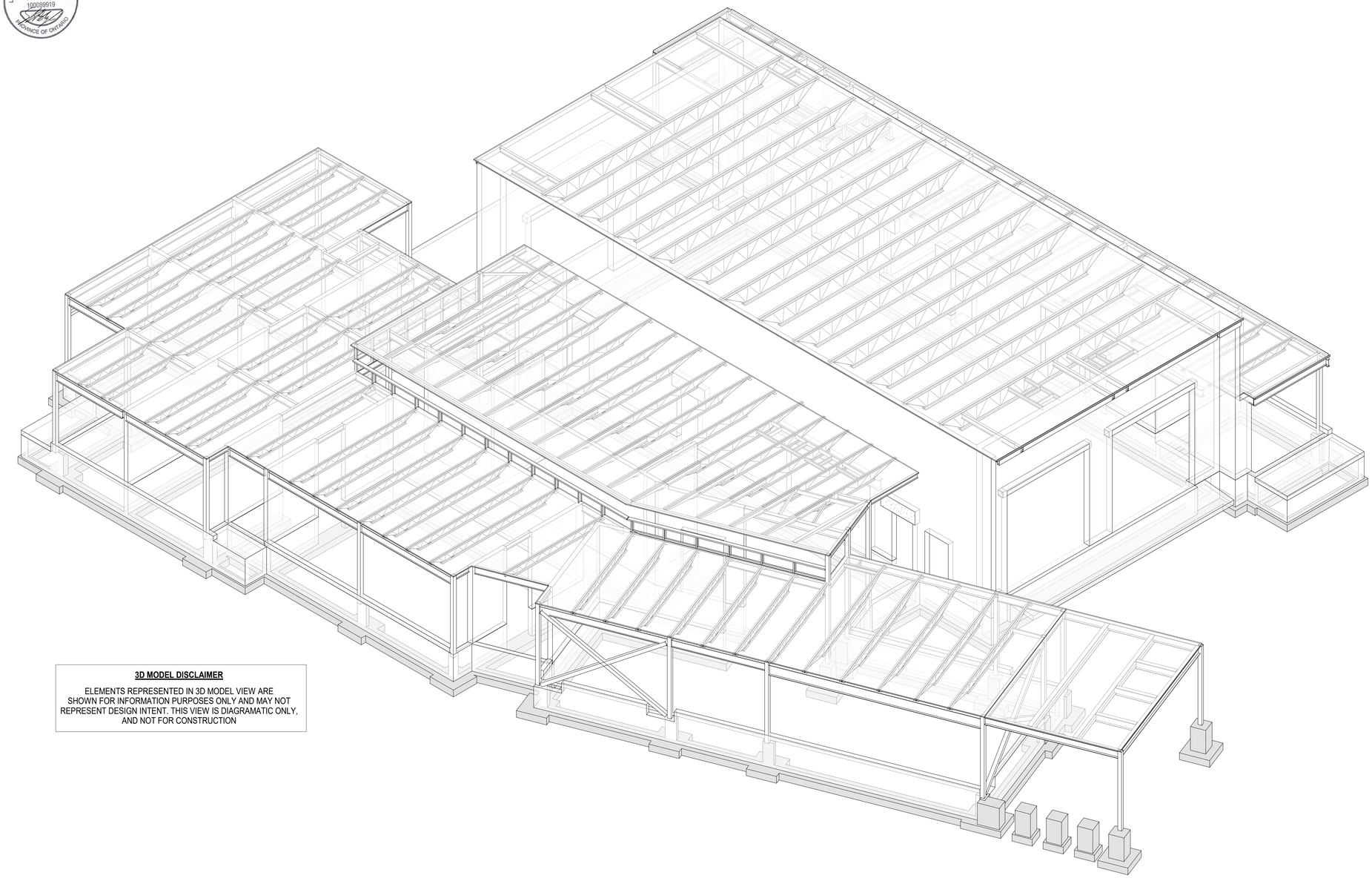
DRAWING TITLE:

**DOOR & FRAME TYPES, & SCHEDULE**

| | |
|---|---|
| ISSUE DATE: | 05/06/24 |
| DRAWN BY: AF | CHECKED BY: SRL |
| PROJECT NO.: 12301 | SCALE: As indicated |
| DRAWING NO.: | REVISION: |

**A10.00** **10**

LAST PLOT DATE 2024-05-02 4:51:10 PM



**3D MODEL DISCLAIMER**

ELEMENTS REPRESENTED IN 3D MODEL VIEW ARE SHOWN FOR INFORMATION PURPOSES ONLY AND MAY NOT REPRESENT DESIGN INTENT. THIS VIEW IS DIAGRAMATIC ONLY, AND NOT FOR CONSTRUCTION

## SHEET LIST


| SHEET NUMBER | SHEET NAME |
|---|---|
| S-000 | COVER PAGE |
| S-100 | GENERAL NOTES |
| S-101 | GENERAL NOTES |
| S-102 | TYPICAL DETAILS |
| S-103 | TYPICAL DETAILS |
| S-104 | TYPICAL DETAILS |
| S-105 | TYPICAL DETAILS |
| S-106 | TYPICAL DETAILS |
| S-107 | PROJECT DETAILS |
| S-200 | PARTIAL SITE REINFORCED PAVEMENT KEYPLAN |
| S-201 | FOUNDATION & LEVEL 1 PLAN |
| S-202 | LOW ROOF PLAN |
| S-203 | CLERESTORY ROOF PLAN |
| S-204 | APPARATUS BAY ROOF PLAN |
| S-300 | COLUMN SCHEDULE |
| S-301 | OTHER SCHEDULES |
| S-400 | ELEVATIONS |
| S-500 | FOUNDATION SECTIONS |
| S-510 | ROOF SECTIONS |
| S-511 | ROOF SECTIONS |


MISSISSAUGA

**CITY OF MISSISSAUGA FIRE STATION 123**

3050 THE COLLEGEWAY
MISSISSAUGA, ONTARIO
CANADA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Design Partners in Architecture and Interiors

25 Main Street West, Hamilton, Ontario, Canada L8P 1H1 T: 905-522-0220



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SEALS

LICENSED PROFESSIONAL ENGINEER
2024-05-01
S. K. HOLYK
100089919
PROVINCE OF ONTARIO


LEA Consulting Ltd.
40 University Avenue, Suite 503
Toronto, Ontario M5J 1T1

Tel: 905 470 0015
Fax: 905 470 0030
WWW.LEA.CA


| NO. | ISSUES/REVISIONS | DATE |
|---|---|---|
| 3 | ISSUED FOR TENDER | 2024-04-29 |
| 2 | ISSUED FOR BUILDING PERMIT | 2024-01-22 |
| 1 | ISSUED FOR CLASS A ESTIMATE | 2024-01-22 |

DRAWING TITLE:

COVER PAGE

ISSUE DATE: 2024-04-29

DRAWN BY: H.R. CHECKED BY: S.H.

PROJECT NO.: 23394 SCALE: 1 : 1

DRAWING NO.: S-000

REVISION: 3

PLOT DATE: 2024-05-01 11:43:44

## GENERAL NOTES — GN-001

1. PROVIDE ALL MATERIAL AND LABOUR REQUIRED FOR THE COMPLETION OF THE WORK. BREAKDOWN OF WORK BY TRADE IS FOR GUIDANCE ONLY AND IS NOT NECESSARILY COMPLETE.
2. THIS IS A METRIC PROJECT. ALL LENGTHS ARE IN MILLIMETERS, UNLESS OTHERWISE NOTED.
3. DO NOT SCALE THESE DRAWINGS.
4. COMPLY WITH THE REQUIREMENTS OF THE ONTARIO BUILDING CODE AND THE OCCUPATIONAL HEALTH AND SAFETY ACT AND REGULATIONS FOR CONSTRUCTION PROJECTS.
5. REVIEW STRUCTURAL DRAWINGS IN CONJUNCTION WITH THE DRAWINGS PREPARED BY ALL CONSULTANTS PRIOR TO CONSTRUCTION. REPORT DISCREPANCIES BEFORE PROCEEDING WITH THE WORK.
6. FOLLOW TYPICAL DETAILS (I.E. SD-001) SHOWN ON DRAWINGS S100 SERIES, UNLESS OTHERWISE NOTED ON DRAWINGS. TYPICAL DETAILS SHOW STRUCTURAL INTENT RATHER THAN ACTUAL CONDITIONS FOR THIS PROJECT. DETAILS NOTED IN TYPICAL DETAILS APPLY TO SIMILAR CONDITIONS THROUGHOUT THE PROJECT UNLESS OTHERWISE NOTED.
7. ALL SECTIONS, DETAILS, AND STATEMENTS NOTED AS "TYPICAL" APPLY TO LIKE/SIMILAR CONDITIONS IN THE STRUCTURE.
8. COORDINATE ALL OPENINGS, SLEEVES AND EMBEDDED ITEMS IN STRUCTURE WITH ARCHITECTURAL, MECHANICAL, ELECTRICAL, AND LANDSCAPE DRAWINGS. REPORT ANY ITEMS THAT ARE IN CONFLICT.
9. DO NOT CUT OR DRILL ANY OPENINGS IN STRUCTURAL MEMBERS WITHOUT WRITTEN PERMISSION FROM THE STRUCTURAL CONSULTANT UNLESS SPECIFICALLY NOTED ON THE STRUCTURAL DRAWINGS.
10. USE OF THESE DRAWINGS IS LIMITED TO THAT IDENTIFIED IN THE REVISIONS COLUMN. DO NOT CONSTRUCT FROM THESE DRAWINGS UNLESS MARKED "ISSUED FOR CONSTRUCTION".
11. DO NOT USE INFORMATION ON THESE DRAWINGS FOR ANY OTHER PROJECT OR WORKS.

## SUBMITTALS AND SHOP DRAWINGS — GN-003

1. SUBMIT FOR REVIEW ALL SUBMITTALS AND SHOP DRAWINGS REQUIRED BY THE SPECIFICATIONS, INCLUDING BUT NOT LIMITED TO THE FOLLOWING:
   - A. CONCRETE MIX DESIGNS
   - B. PROPOSED CONSTRUCTION AND CONTROL JOINT LOCATIONS IN CONCRETE ELEMENTS
   - C. CONCRETE AND MASONRY REINFORCING STEEL
   - D. STRUCTURAL STEEL (ERECTION DRAWINGS AND DETAILS SEALED AND SIGNED BY A PROFESSIONAL ENGINEER)
   - E. STEEL JOISTS (ERECTION DRAWINGS, DETAILS AND CALCULATIONS SEALED AND SIGNED BY A PROFESSIONAL ENGINEER)
   - F. STEEL DECK (SEALED AND SIGNED BY A PROFESSIONAL ENGINEER)
2. REVIEW OF SHOP DRAWINGS IS ON A RATIONAL SAMPLING BASIS. FOR GENERAL CONFORMITY WITH THE INTENT OF THE STRUCTURAL CONTRACT DOCUMENTS. IT IS NOT A DETAILED CHECK AND MUST NOT BE CONSTRUED AS RELIEVING THE CONTRACTOR OF RESPONSIBILITY FOR MAKING THE WORK ACCURATE AND IN CONFORMITY WITH THE CONTRACT DOCUMENTS.
3. REVIEW OF SHOP DRAWINGS DOES NOT IMPLY ANY CHANGE IN ANY OTHER CONSULTANTS' OR PROFESSIONALS' RESPONSIBILITIES RELATED TO DESIGN OF SPECIFIC ITEMS AS OUTLINED BY THE SPECIFICATIONS.
4. REVIEW OF A SPECIFIC COMPONENT ON NON-STRUCTURAL SHOP DRAWINGS (COMPONENTS ENGINEERED BY OTHERS) DOES NOT INCLUDE REVIEW OF THE ASSEMBLY OF WHICH THE ITEM MAY BE A COMPONENT
5. IF REQUIRED, CAD FILES OF THE FULL SET OF STRUCTURAL DRAWINGS ARE AVAILABLE "AS-IS", AT A COST OF $100.00 PER SHEET FOR USE IN THE PREPARATION OF SHOP DRAWINGS. PROVIDED THAT THE OWNER AND THE OWNER'S CONSULTANTS ARE NOT HELD RESPONSIBLE FOR ANY ERRORS OR OMISSIONS ON THE DRAWINGS. THESE CAD DRAWINGS ARE NOT TO BE SCALED.
6. ALLOW A MINIMUM OF 10 WORKING DAYS FOR REVIEW OF EACH SUBMISSION OF SHOP DRAWINGS IN THE STRUCTURAL OFFICE. ALLOW MORE TIME WHEN LARGE QUANTITIES OF SHOP DRAWINGS ARE SUBMITTED ALONG WITH A PRIORITY LIST OF SUBMITTALS. SUBMIT IN ORDER WITH THE INTENDED SEQUENCE OF CONSTRUCTION.
7. MAKE CORRECTIONS REQUIRED BY PREVIOUS REVIEW BEFORE RESUBMITTING DRAWINGS. CLEARLY INDICATE ALL CHANGES AND ADDITIONS TO PREVIOUS SUBMISSION. DO NOT ADD NEW DETAILS TO DRAWINGS WHICH HAVE BEEN STAMPED AS REVIEWED OR NOTED.
8. AFTER REVIEW, THE DRAWINGS WILL BE STAMPED AND RETURNED TO SHOW ONE OF THE FOLLOWING:

| | |
|---|---|
| REVIEWED | RELEASED FOR FABRICATION |
| REVIEWED AS NOTED | RELEASED FOR FABRICATION AFTER REVISIONS NOTED ARE MADE. |
| REVISE AND RESUBMIT | CORRECT AND RESUBMIT FOR REVIEW PRIOR TO FABRICATION. |
| NOT REVIEWED | SHOWS WORK WHICH IS NOT WITHIN THE SCOPE OF STRUCTURAL CONSULTING SERVICES. |

9. ALL SHOP DRAWINGS SHALL BEAR THE GENERAL CONTRACTOR'S REVIEW STAMP. SHOP DRAWINGS NOT STAMPED BY THE GENERAL CONTRACTOR WILL BE MARKED "REVISE AND RESUBMIT" AND RETURNED WITHOUT BEING REVIEWED.
10. SUBMIT ENGINEER SEALED SHOP DRAWINGS WHEN REQUIRED BY SPECIFICATIONS. SHOP DRAWINGS NOT SEALED, SIGNED, AND DATED WILL BE MARKED "REVISE AND RESUBMIT" AND RETURNED WITHOUT BEING REVIEWED.
11. DO NOT COMMENCE FABRICATION UNTIL RETURNED SHOP DRAWINGS HAVE BEEN EXAMINED.
12. PROVIDE FINAL RECORD DRAWINGS AFTER ALL CORRECTIONS ARE MADE.

## QUALITY ASSURANCE — GN-004

1. COOPERATE WITH CONSULTANTS DOING GENERAL REVIEW AND WITH ALL INSPECTION AND TESTING AGENCIES. ASSIST IN THEIR WORK AND PROVIDE SAFE ACCESS TO WORK AREAS AS REQUIRED. PROVIDE REASONABLE NOTICE (NOT LESS THAN TWO WORKING DAYS OR 48 HOURS, WHICHEVER IS GREATER,) PRIOR TO CONCEALING ANY WORK THAT REQUIRES INSPECTION, REVIEW, OR TESTING. SCHEDULE THIS WORK TO OCCUR DURING NORMAL BUSINESS HOURS. WORK TO BE GENERALLY COMPLETE AT THE TIME OF THE REVIEW.
2. THE STRUCTURAL CONSULTANT WILL PROVIDE PERIODIC GENERAL REVIEW OF A REPRESENTATIVE SAMPLE OF THE STRUCTURAL WORKS DESIGNED BY THE CONSULTANT TO CHECK GENERAL CONFORMANCE WITH THE STRUCTURAL DRAWINGS AND SPECIFICATIONS. THESE REVIEWS DO NOT ALLEVIATE THE CONTRACTOR'S RESPONSIBILITY TO IMPLEMENT AND MAINTAIN AN APPROPRIATE QUALITY CONTROL PROGRAM.
3. ENSURE THAT CONSTRUCTION REVIEW IS PROVIDED FOR ALL STRUCTURAL WORK DESIGNED BY PROFESSIONAL ENGINEERS RETAINED BY THE CONTRACTOR. CONSTRUCTION REVIEW TO BE BY THE ENGINEERS RESPONSIBLE FOR THE DESIGN, OR BY OTHER PROFESSIONAL ENGINEERS LICENSED AND INSURED IN THE PROVINCE OF ONTARIO AND DESIGNATED BY THE ENGINEER RESPONSIBLE FOR THE DESIGN. SUBMIT CONSTRUCTION REVIEW REPORTS FOR THE CONSULANT'S RECORDS UPON REQUEST.
4. MAINTAIN A QUALITY CONTROL PLAN FOR STRUCTURAL WORK AND MAKE IT AVAILABLE TO THE CONSULTANT UPON REQUEST. AT A MINIMUM, THE PLAN TO INCLUDE:
   1. NAMES OF PERSONNEL RESPONSIBLE FOR EXECUTION OF THE PLAN.
   2. MEANS AND METHODS FOR CONFIRMING MATERIAL COMPLIANCE WITH SPECIFICATIONS AND ASSOCIATED DOCUMENTATION PROCEDURES.
   3. PROGRAM FOR CONFIRMING AND DOCUMENTING COMPLIANCE OF SUB-TRADE QUALIFICATIONS AND THEIR INDIVIDUAL EMPLOYEES AND SUB-CONTRACTORS.
   4. PROCEDURES FOR REVIEWING COMPLIANCE IN THE FIELD WITH CONSTRUCTION DOCUMENTS INCLUDING DOCUMENTATION OF LOCATIONS REVIEWED, PHOTOGRAPHS TAKEN, AND TIMING FOR REVIEW. THE CONTRACTOR'S REVIEW MUST BE COMPLETED PRIOR TO REVIEW OF THE CONSULTANT.
   5. PROCEDURES FOR RECTIFYING DEFICIENCIES NOTED BY THE CONTRACTOR, CONSULTANTS AND INDEPENDENT INSPECTION AGENCIES.

## DESIGN CRITERIA — GN-005

1. STRUCTURAL DESIGN IS IN ACCORDANCE WITH THE 2012 ONTARIO BUILDING CODE (OBC), SUPPLEMENTED BY THE STRUCTURAL COMMENTARIES (USER'S GUIDE - NBC 2015: PART 4 OF DIVISION B).
2. CLIMATIC DATA USED TO DETERMINE THE DESIGN LOADS IS FROM THE MMAH SUPPLEMENTARY STANDARD OF THE OBC SPECIFICALLY FOR MISSISSAUGA, ONTARIO.
3. DESIGN LOADS SHOWN ON PLAN OR SECTION ARE SPECIFIED (UNFACTORED) LOADS TO BE USED FOR ULS DESIGN, UNLESS OTHERWISE NOTED. FOR POINT LOADS, CONSIDER IT A LIVE LOAD IF ONLY ONE LOAD IS GIVEN. LOAD FACTORS TO CONVERT LOADS TO SLS FOR WIND AND SNOW ARE SHOWN IN THEIR RESPECTIVE SECTIONS.
4. SELF WEIGHT IS DUE TO THE WEIGHT OF THE STRUCTURE ITSELF. IT VARIES WITH THE STRUCTURAL SYSTEM AND INCLUDES CONCRETE TOPPINGS ON STEEL DECK.
5. SUPERIMPOSED DEAD LOADS (SDL) ARE NON-STRUCTURAL DEAD LOADS DUE TO NON-STRUCTURAL TOPPINGS, FINISHES, PARTITIONS, ROOFING MATERIALS, SUSPENDED EQUIPMENT, PAVERS, SOIL, ETC.
6. DEAD LOAD (DL) IS THE SELF WEIGHT OF THE STRUCTURE PLUS THE SUPERIMPOSED DEAD LOAD.
7. GRAVITY LOADS ARE SHOWN ON PLANS. LIVE LOAD REDUCTION HAS NOT BEEN USED.
8. NET FACTORED UPLIFT LOADS ON ROOFS ARE SHOWN ON PLANS.
9. IMPORTANCE: POST-DISASTER
10. SNOW
    Ss = 1.1 kPa Sr = 0.4 kPa Is (ULS) = 1.25 Is (SLS) = 0.9
    MINIMUM SPECIFIED SNOW LOAD = 1.28 kPa x Is
11. RAIN
    24 HOUR RAINFALL = 113 mm
12. LATERAL LOADS IN THIS STRUCTURE ARE RESISTED BY SHEAR WALLS, AND ARE DETERMINED BASED ON THE WIND AND SEISMIC DATA BELOW.
    WIND
    q (1/50 YEAR) = 0.44 kPa
    Iw (ULS) = 1.25
    Iw (SLS) = 0.75
    CpCg = 1.95
    Ce = 0.7
    INTERNAL PRESSURE = CATEGORY: 3
    FACTORED BASE SHEARS
    V (NS) = 395 kN
    V (EW) = 500 kN
13. SEISMIC
    Sa (0.2) = 0.219
    Sa (0.5) = 0.115
    Sa (1.0) = 0.058
    Sa (2.0) = 0.028
    PGA = 0.141
    Ie = 1.5
    Mv = 1.0
    IeFaSa (0.2) = 0.33
    A. SITE CLASSIFICATION = C (DENSE SOIL AND SOFT ROCK)
    B. SEISIMIC FORCE RESISTING SYSTEM (SFRS):
       MODERATELY DUCTILE REINFORCED MASONRY SHEAR WALLS Rd = 2 Ro = 1.5
    C. TORSIONAL SENSITIVITY: N/A
    D. IRREGULARITIES: TYPE: N/A
    E. DYNAMIC ANALYSIS: NOT REQUIRED
    F. FUNDAMENTAL PERIOD: Ta= sec Ta = 0.22
       BASE SHEARS
       VMAX = (2/3) S(0.2) Ie
       W/ (RdRo) = 455 kN

## FOUNDATIONS — GN-007

1. STRUCTURAL DESIGN IS BASED ON THE GEOTECHNICAL REPORT PREPARED BY: G2SCONSULTING INC. REPORT NUMBER: G2S23256A DATED: NOVEMBER, 2023.
2. REFER TO THE GEOTECHNICAL REPORT FOR INFORMATION ON GEOTECHNICAL CONDITIONS, FOUNDATION RECOMMENDATIONS, AND FOR ALL EARTHWORK INCLUDING EXCAVATION, BACKFILL, AND SUBGRADE PREPARATION. ALSO REFER TO ARCHITECTURAL DRAWINGS AND SPECIFICATIONS
3. CONSTRUCT ALL FOOTINGS ON ENGINEERED FILL CAPABLE OF SUPPORTING THE DESIGN BEARING RESISTANCE NOTED
   - 225 kPa AT ULS (ULTIMATE LIMIT STATES DESIGN)
   - 150 kPa AT SLS (SERVICEABILITY LIMIT STATES DESIGN)

   AS PER THE GEOTECHNICAL RECOMMENDATIONS, EXISTING SOIL IS TO BE REPLACED WITH ENGINEERED FILL TO ACHIEVE THE DESIGN BEARING RESISTANCE NOTED.
4. FOR FROST PROTECTION, MINIMUM DISTANCE FROM FINISHED GRADE TO UNDERSIDE OF PERIMETER FOOTINGS AND FOOTINGS IN UNHEATED AREAS TO BE NOT LESS THAN 1200. BEARING ELEVATIONS SHOWN ON STRUCTURAL DRAWINGS ARE ANTICIPATED MINIMUM DEPTHS. FINAL BEARING ELEVATIONS AND CAPACITY MUST BE REVIEWED AND APPROVED BY THE GEOTECHNICAL CONSULTANT PRIOR TO CONSTRUCTING FOOTINGS. ANY DEVIATIONS FROM THE CONTRACT DOCUMENTS TO BE REVIEWED WITH THE STRUCTURAL CONSULTANT PRIOR TO PLACING FORMWORK
5. MODULUS OF SUBGRADE REACTIONS (ASSUMED FOR DESIGN OF SLABS ON GRADE) IS 0 kN/m3. CONSTRUCT SUBGRADE UNDER THE SLAB ON GRADE IN ACCORDANCE WITH THE GEOTECHNICAL REPORT.
6. CENTRE FOOTINGS AND PIERS UNDER CENTROID OF COLUMNS, OR WHERE THERE ARE NO COLUMNS ABOVE, CENTER UNDER WALLS OR GRADE BEAMS, UNLESS OTHERWISE NOTED.
7. UNLESS OTHERWISE NOTED, THE LONGER DIMENSION OF RECTANGULAR SPREAD FOOTINGS TO BE PARALLEL TO THE LONGER COLUMN DIMENSION.
8. LOCATE ALL EXISTING UNDERGROUND SERVICES PRIOR TO EXCAVATION.
9. THE LINE OF SLOPE BETWEEN ADJACENT EXCAVATIONS FOR FOOTINGS OR TRENCHES SHALL NOT EXCEED A RISE OF 7 IN A RUN OF 10 , UNLESS OTHERWISE APPROVED BY THE GEOTECHNICAL CONSULTANT. REFER TO TYPICAL DETAILS.
10. KEEP EXCAVATION DRAINED AND FREE OF WATER AT ALL TIMES. REFER TO GEOTECHNICAL REPORT FOR REQUIRED DEWATERING PROCESS.
11. PROTECT FOOTINGS, WALLS, SLABS-ON-GRADE AND ADJACENT SOIL AGAINST FREEZING AND FROST ACTION AT ALL TIMES DURING CONSTRUCTION. DO NOT POUR CONCRETE AGAINST FROZEN EARTH.
12. DO NOT USE EARTH FORMS UNLESS APPROVED THE GEOTECHNICAL ENGINEER AND THE STRUCTURAL CONSULTANT. FOR ELEMENTS CAST AGAINST SOIL, INCREASE SIZE SHOWN ON THE DRAWINGS AS REQUIRED TO OBTAIN 75 (3") CONCRETE COVER AGAINST SOIL.
13. DO NOT BACKFILL AGAINST WALLS RETAINING EARTH UNTIL ELEMENTS PROVIDING LATERAL SUPPORT, INCLUDING SLABS ON GRADE AND SUSPENDED LEVELS, ARE COMPLETED AND CONCRETE HAS REACHED 70% OF ITS DESIGN STRENGTH.
14. FOR ELEMENTS THAT ARE TO BE BACKFILLED ON BOTH SIDES, PLACE BACKFILL SIMULTANEOUSLY ON BOTH SIDES SUCH THAT HEIGHTS DO NOT VARY BY MORE THAN 300 (1'-0") FROM ONE SIDE TO THE OTHER.
15. FORM ALL SIDES OF FOOTINGS UNLESS OTHERWISE NOTED OR APPROVED BY GEOTECHNICAL ENGINEER. INCREASE COVER TO REINFORCING.

## CONCRETE — GN-008

December 22, 2021

1. CONFORM TO CSA A23.1: "CONCRETE MATERIALS AND METHODS OF CONCRETE CONSTRUCTION"
2. CONCRETE IS SPECIFIED PER ALTERNATIVE 1 - PERFORMANCE SPECIFICATION AS OUTLINED IN CAN/CSA A23.1. THE CONTRACTOR AND THE CONCRETE SUPPLIER TO MEET ALL CERTIFICATION, DOCUMENTATION, AND QUALITY CONTROL REQUIREMENTS.
3. THE CONCRETE SUPPLIER TO BE CERTIFIED BY "CONCRETE ONTARIO" (FORMERLY RMCAO CERTIFICATION).
4. THE CONTRACTOR AND THE CONCRETE SUPPLIER TO ENSURE THAT THE PLASTIC AND HARDENED MIX PROPERTIES MEET SITE REQUIREMENTS FOR PLACING, FINISHING, AND THE SPECIFIED PERFORMANCE REQUIREMENTS.
5. CEMENT TO BE PORTLAND CEMENT TYPE GU UNLESS NOTED OTHERWISE OR REQUIRED BY EXPOSURE CLASS.
6. CONCRETE TO BE NORMAL DENSITY, UNLESS NOTED OTHERWISE.
7. NOMINAL SIZE OF COURSE AGGREGATE TO BE 20 (3/4"), UNLESS NOTED OTHERWISE.
8. PLACE CONCRETE AS CLOSE AS POSSIBLE TO FINAL LOCATION TO AVOID SEGREGATION. VIBRATE ALL CONCRETE.
9. PROTECT CONCRETE FROM FREEZING. DO NOT PLACE CONCRETE AGAINST FROZEN GROUND. USE COLD WEATHER CONCRETING METHODS IN ACCORDANCE WITH CAN/CSA-A23.1.
10. PROTECT CONCRETE FROM EXCESSIVE HEAT AND DRYING. USE HOT WEATHER CONCRETING METHODS IN ACCORDANCE WITH CAN/CSA-A23.1.
11. COLUMNS.
    - A. WHERE APPLICABLE, COLUMN OFFSETS FROM GRIDLINES ARE NOTED ON DRAWINGS. UPPER COLUMNS ARE CENTRED ON COLUMNS BELOW UNLESS NOTED OTHERWISE.
12. SLABS
    - A. DO NOT STEEL TROWEL FINISH AIR-ENTRAINED CONCRETE, AS REQUIRED BY A23.1.
    - B. PROVIDE MINIMUM 100 (4") BEARING ON MASONRY WALLS.
    - C. SUBMIT LAYOUT DRAWINGS SHOWING SLEEVES AND OPENINGS REQUIRED BY ALL TRADES FOR THE CONSULTANT'S REVIEW. DO NOT LOCATE PENETRATIONS NEAR COLUMNS WITHOUT WRITTEN APPROVAL FROM THE STRUCTURAL CONSULTANT.
13. CONSTRUCTION & CONTROL JOINTS
    - A. PROVIDE JOINTS WHERE SPECIFIED OR SHOWN ON DRAWINGS. LOCATE SO AS NOT TO IMPAIR THE REQUIRED STRENGTH OF THE STRUCTURE. SUBMIT JOINT LAYOUT FOR REVIEW A MINIMUM OF 2 WEEKS PRIOR TO POURING CONCRETE. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.
    - B. SLABS ON GRADE: CONSTRUCTION JOINTS AT 30m (100ft) MAXIMUM IN BOTH DIRECTIONS, WITH CONTROL JOINTS (SAWCUT JOINTS) IN BETWEEN AT 25 TIMES CONCRETE THICKNESS, BUT NOT MORE THAN 4.5m (15ft) MAXIMUM.
    - C. FORMED SLABS: CONSTRUCTION JOINTS AT 30m (100ft) MAXIMUM IN BOTH DIRECTIONS.
    - D. FOUNDATION WALLS AND GRADE BEAMS: VERTICAL CONSTRUCTION JOINTS AT 30m (100ft) MAXIMUM.
    - E. INTERIOR WALLS (EXCEPT SHEAR WALLS), AND BASEMENT WALLS IN HEATED AREAS: VERTICAL CONSTRUCTION JOINTS AT 30m (100ft) MAXIMUM., WITH CONTROL JOINTS IN BETWEEN AT 9m (30ft) MAXIMUM.
    - F. SHEAR WALLS: NO CONSTRUCTION JOINTS NOR CONTROL JOINTS UNLESS SHOWN ON DRAWINGS.
    - G. HORIZONTAL CONSTRUCTION JOINTS IN CONCRETE WALLS ARE NOT PERMITTED, EXCEPT WHERE SHOWN ON THE STRUCTURAL DRAWINGS. CONSTRUCTION JOINTS ARE PERMITTED AT THE UNDERSIDE OF SLABS ABOVE.

| ELEMENT | MIN. COMPRESSIVE STRENGTH (MPa) 28 DAYS | EXPOSURE CLASS | SPECIAL REQUIREMENTS & REMARKS |
|---|---|---|---|
| FOOTINGS | 25 | N | |
| PIERS & PILASTERS | 25 | F2 | |
| GRADE BEAMS | 35 | F2 | |
| FOUNDATION WALLS | 35 | F2 | |
| SLAB-ON-GRADE (INTERIOR) | 35 | N | AT RESILIENT FINISHES, USE MAX W/CM <0.45 |
| SLAB-ON-GRADE (HEATED VEHICLE ACCESSIBLE AREAS) | 35 | C1 EQUIVALENT EXCEPT NO AIR ENTRAINMENT | REQUIRES A DURABLE CONCRETE WITH LOW PERMEABILITY TO PREVENT CHLORIDE INGRESS WITH CORROSION INHIBITOR (EQUIVALENT COULOMB RATING TO C1) BUT EASY TO FINISH FOR A POLISHED CONCRETE SURFACE. SINCE THE APPARATUS BAY IS HEATED, AIR ENTRAINMENT IS NOT REQUIRED. |
| SLAB-ON-GRADE (UNHEATED VEHICLE ACCESSIBLE AREAS, FROST SLABS, EXTERIOR EQUIPMENT PADS) | 35 | C1 | WITH CORROSION INHIBITOR |
| NON-STRUCTURAL TOPPINGS, HOUSEKEEEPING PADS | | N | NOMINAL SIZE OF COARSE AGGREGATE : 10mm FOR TOPPINGS BETWEEN 25 AND 35 THICK, 14mm FOR TOPPINGS BETWEEN 35 AND 50 THICK |
| LEAN CONCRETE, MUDSLABS | 10 | N | |

1. WHERE EXPOSURE CLASS IS NOTED "N / F2", USE F-2 EXPOSURE CLASS FOR PERIMETER AND EXTERIOR NON INSULATED ELEMENTS ABOVE THE FROST LINE, AND FOR ELEMENTS IN INTERIOR UNHEATED SPACES, WHICH ARE SUSCEPTIBLE TO FREEZING. USE N EXPOSURE CLASS FOR ELEMENTS PROTECTED FROM FREEZING.
2. LIMIT MAXIMUM AGGREGATE SIZE TO 10 (3/8") FOR COLUMNS WITH SMALLEST DIMENSION LESS THAN 300 (12"), FOR WALLS LESS THAN 200 (8") THICK, AND FOR TOPPINGS LESS THAN 75 (3") THICK.
3. MINIMUM DOSAGE = 10L/m3 OF 30% SOLUTION OF CALCIUM NITRATE, AS PER CSA-S413.
4. REFER TO CAN/CSA A23.1 FOR THE MAXIMUM WATER/CEMENT RATIO, MINIMUM COMPRESSIVE STRENGTH, AIR CONTENT, CURING REQUIREMENTS, CHLORIDE ION PENETRABILITY, AND ALTERNATE CEMENT TYPE TO MEET THE REQUIREMENTS FOR THE NOTED EXPOSURE CLASS.
5. WHERE REQUIRED BY SPECIFICATIONS, PROVIDE MINIMUM AMOUNT OF SUPPLEMENTAL CEMENTING MATERIALS SPECIFIED FOR THE OVERALL PROJECT.

## CONCRETE COVER TO REINFORCING STEEL — GN-009

December 22, 2021

CONCRETE COVER TABLE WITH 2 HOUR FIRE RATING, NOT PRESTRESSED

| STRUCTURAL ELEMENT | BAR SIZE (M) | BUILDING INTERIOR (WITHIN VAPOUR BARRIER) BELOW GRADE (EXCLUDE PARKING STRUCTURE) COVER (mm) | | |
|---|---|---|---|---|
| | | TOP | BOTTOM | SIDE |
| FOOTING (WITH FORMWORK) | ≤ 35 | 50 | 75 | 50 |
| GRADE BEAM AND PIER (WITH FORMWORK) | ≤ 35 | 50 | 50 | 50 |
| PERIMETER FOUNDATION WALL (EXTERIOR FACE NOT CAST AGAINST EARTH + INTERIOR FACE) | ≤ 25 | | | 40 |
| | ≤ 30 | | | 45 |
| | ≤ 35 | | | 55 |

## CONCRETE REINFORCEMENT — GN-009A

1. REINFORCEMENT IS TO CONFORM TO THE FOLLOWING STANDARDS:
   - A. DEFORMED BARS: CAN/CSA G30.18, GRADE 400R.
   - B. WELDED DEFORMED BARS: CAN/CSA G30.18, GRADE 400W.
   - C. WELDED WIRE FABRIC: ASTM A185/A185M.
   - D. EPOXY COATING: ASTM D3963
2. PROVIDE MIN. 24 HOURS NOTICE PRIOR TO CLOSING FORMS OR PLACING CONCRETE TO ALLOW FOR REINFORCING STEEL REVIEW.
3. BARS MARKED CONTINUOUS TO BE TERMINATED IN STANDARD HOOKS AT ENDS AND SPLICED USING CLASS B LAPS. DO NOT SHORTEN HOOKS TO ACCOMMODATE MEMBER DIMENSION.
4. ALL REBAR HOOKS TO BE STANDARD LENGTH 90° OR 180° HOOKS. REBAR LENGTHS LISTED ON DRAWINGS DO NOT INCLUDE THE HOOK LENGTH.
5. WHERE TWO BARS OF DIFFERENT SIZE ARE LAPPED IN TENSION, SPLICE LENGTH TO BE EQUAL TO THE SMALLER BAR'S TENSION LAP SPLICE, OR TO THE LARGER BAR'S TENSION DEVELOPMENT LENGTH, WHICHEVER IS LONGER.
6. WHERE TWO BARS OF DIFFERENT SIZE ARE LAPPED IN COMPRESSION, SPLICE LENGTH TO BE EQUAL TO THE SMALLER BAR'S COMPRESSION LAP SPLICE, OR TO THE LARGER BAR'S COMPRESSION DEVELOPMENT LENGTH, WHICHEVER IS LONGER.
7. PROVIDE ADDITIONAL SUPPORT BARS AS REQUIRED TO ADEQUATELY SUPPORT AND SECURE ALL REINFORCEMENT AND PREVENT MOVEMENT WHEN PLACING CONCRETE.
8. PROVIDE SUFFICIENT CHAIRS TO REINFORCING TO MAINTAIN SPECIFIED CONCRETE COVER.
9. ALL REINFORCING TO BE CLEAN, FREE OF LOOSE SCALE, OIL, DIRT, RUST, AND ANY OTHER FOREIGN COATING THAT AFFECT BONDING CAPACITY.
10. MINIMUM CLEAR CONCRETE COVER TO REINFORCEMENT CLOSEST TO THE SURFACE TO BE AS FOLLOWS UNLESS NOTED OTHERWISE ON THE DRAWINGS.
11. WALLS
    - A. UNLESS OTHERWISE NOTED ON DRAWINGS, SCHEDULES OR NOTES, MINIMUM REINFORCEMENT FOR CONCRETE WALLS TO BE AS FOLLOWS:
      - a. 150 MAXIMUM WALL: 10 @ 300 (12") H + 10 @ 400 (16") V IN CENTRE
      - b. 200 MAXIMUM WALL: 10 @ 250 (10") H + 10 @ 300 (12") V IN CENTRE
      - c. 250 MAXIMUM WALL: 10 @ 400 (16") HEF + 10 @ 500 (20") VEF
      - d. 300 MAXIMUM WALL: 10 @ 330 (13") HEF + 10 @ 440 (17") VEF
      - e. VERTICAL REINFORCING TO BE OUTSIDE LAYER
    - B. REFER TO TYPICAL DETAILS FOR REINFORCING REQUIRED AT WALL CORNERS, INTERSECTIONS AND OPENINGS, AND FOR MINIMUM DOWELING REQUIREMENTS BETWEEN WALLS AND SLABS.
12. SLABS
    - A. UNLESS OTHERWISE SPECIFIED ON PLANS, PROVIDE BOTTOM TEMPERATURE REINFORCEMENT IN BOTH DIRECTIONS FOR FRAMED SLABS IN ACCORDANCE WITH TYPICAL DETAILS.
    - B. DO NOT ELIMINATE, CUT, OR DISPLACE REINFORCING TO ACCOMMODATE MECHANICAL AND ELECTRICAL SLEEVES, OPENINGS OR HARDWARE. SPREAD REINFORCING AROUND SLEEVES. PROVIDE ADDITIONAL REINFORCING AS SHOWN IN TYPICAL DETAILS AND DRAWINGS FOROPENINGS LARGER THAN 450 x 450 (18"X18"). IF OPENINGS, SLEEVES, OR HARDWARE CANNOT BE LOCATED AS SPECIFIED, OBTAIN APPROVAL OF MODIFICATIONS FROM CONSULTANT PRIOR TO PLACING CONCRETE.

## POST-INSTALLED ANCHORS AND DOWELS — GN-011

1. UNLESS OTHERWISE NOTED, ANCHORAGE TO CONCRETE TO BE:
   - A. WHERE DRILLED CONCRETE ANCHORS (DCA) ARE NOTED ON DRAWINGS, PROVIDE HILTI KWIK BOLT – TZ2 EXPANSION ANCHORS.
   - B. WHERE ADHESIVE ANCHORS ARE NOTED ON DRAWINGS, PROVIDE HILTI HIT-HY 200 ADHESIVE ANCHORING SYSTEM WITH HILTI HIT-Z ANCHOR RODS USING HILTI SAFESET HOLLOW DRILL BIT TECHNOLOGY.
   - C. WHERE DRILLED REINFORCING STEEL DOWELS ARE NOTED ON DRAWINGS, PROVIDE HILTI HIT-HY 200 ADHESIVE ANCHORING SYSTEM INSTALLED USING HILTI SAFESET HOLLOW DRILL BIT TECHNOLOGY.
2. UNLESS OTHERWISE NOTED ON DRAWINGS, ANCHORAGE TO MASONRY TO BE:
   - A. FOR SOLID OR GROUTED MASONRY, WHERE DRILLED MASONRY ANCHORS (DMA) ARE NOTED ON DRAWINGS, PROVIDE HILTI KB-3 EXPANSION ANCHORS.
   - B. FOR SOLID OR GROUTED MASONRY, WHERE ADHESIVE ANCHORS ARE NOTED ON DRAWINGS, PROVIDE HILTI HIT-HY 270 ADHESIVE ANCHORING SYSTEM WITH HAS-E THREADED RODS.
   - C. FOR HOLLOW MASONRY, PROVIDE HILTI HIT-HY 270 ADHESIVE ANCHORING SYSTEM WITH HIT-SC MESH SLEEVE AND HAS-E THREADED RODS.
3. WHERE GALVANIZED ANCHORS ARE SPECIFIED, PROVIDE HOT DIPPED GALVANIZED (NOT ZINC PLATED) ANCHORS.
4. CONCRETE TO BE MINIMUM 28 DAYS OLD AT THE TIME OF ANCHOR INSTALLATION.
5. USE DRILLING AND INSTALLATION TOOLS AND PROCEDURES PER MANUFACTURERS' RECOMMENDATIONS. HOLE DIAMETERS NOT TO EXCEED THOSE REQUIRED BY MANUFACTURER.
6. ARRANGE FOR A MANUFACTURER'S TECHNICAL REPRESENTATIVE TO PROVIDE ONSITE INSTALLATION TRAINING FOR ALL THE PRODUCTS SPECIFIED, AND CONDITIONS ENCOUNTERED (E.G. HORIZONTAL, INCLINED, OVERHEAD). SUBMIT RECORD OF TRAINING LISTING ALL TRAINED PERSONNEL. IN ADDITION, PERSONNEL INSTALLING ADHESIVE ANCHORS IN A HORIZONTALLY OR UPWARDLY INCLINED DIRECTION THAT ARE REQUIRED TO SUPPORT SUSTAINED TENSION LOADS SHALL BE CERTIFIED IN ACCORDANCE WITH ACI/CSI/ AEHPI ONSITE INSTALLER CERTIFICATION PROGRAM AS PER CSA A23.3 ANNEX D.
7. ARRANGE FOR A MANUFACTURER'S TECHNICAL REPRESENTATIVE TO BE PRESENT DURING INSTALLATION OF FIRST FEW ANCHORS OF EACH SIZE AND TYPE. SUBMIT SITE REPORTS BY MANUFACTURER TO CONSULTANT WITHIN ONE WEEK OF EACH VISIT. REPORTS TO INDICATE ANCHOR TYPES AND SIZES INSTALLED, LOCATIONS AND INSTALLERS' NAMES.
8. DO NOT CUT REINFORCEMENT TO ACCOMMODATE DRILLED ANCHORS AND DOWELS. SCAN THE STRUCTURE TO LOCATE REINFORCEMENT PRIOR TO FABRICATING STRUCTURAL STEEL FASTENED BY DRILLED ANCHORS.
9. WHEN OBSTRUCTIONS PREVENT DRILLING HOLES IN SPECIFIED LOCATIONS TO THE REQUIRED DEPTH, RELOCATE AT NO EXTRA COST TO THE CONTRACT. OBTAIN CONSULTANT'S APPROVAL OF NEW LOCATIONS BEFORE DRILLING HOLES. FILL ALL ABANDONED HOLES WITH MIN. 30MPa GROUT. DO NOT TIGHTEN ANCHORS UNTIL GROUT IN ADJACENT ABANDONED HOLES REACHES 75% f'c.
10. DO NOT BEND POST INSTALLED DOWELS AND RODS AFTER INSTALLATION.
11. STANDARD EMBEDMENT LENGTHS FOR POST-INSTALLED ANCHORS:

| ANCHOR TYPE | HILTI KB-TZ2 | | ADHESIVE HY-200V3 | | ADHESIVE HY-270 +HIT-S SCREEN | |
|---|---|---|---|---|---|---|
| BASE MATERIAL | CONCRETE | GROUTED MASONRY | CONCRETE | GROUTED MASONRY | GROUTED MASONRY | HOLLOW MASONRY |
| 12 (1/2") | 64 (2 1/2") | 64 (2 1/2") | 114 (4 1/2") | 114 (4 1

## STRUCTURAL STEEL — GN-012

1. CONFORM TO CSA S16 "LIMIT STATES DESIGN OF STEEL STRUCTURES"
2. FABRICATOR SHALL BE CERTIFIED BY CANADIAN WELDING BUREAU UNDER REQUIREMENTS OF CSA W47.1, DIVISION 1 OR 2
3. MATERIALS: TO CSA G40.21 UNLESS OTHERWISE NOTED, WITH THE FOLLOWING GRADES:
   - A. WIDE FLANGE SECTIONS - 350W
   - B. CHANNELS, ANGLES - 350W
   - C. PLATES, BARS - 300W
   - D. HOLLOW STRUCTURAL SECTIONS (HSS) - 350W (CLASS 'C') OR ASTM A500, 345MPa (GRADE 'C')
   - E. GALVANIZED HSS 350W (CLASS 'H') OR STRESS-RELIEVED PRIOR TO GALVANIZING.
   - F. STEEL PIPE - ASTM A53, 240W
   - G. STRUCTURAL STEEL BOLTS - ASTM A325M, UNLESS NOTED
   - H. ANCHOR RODS - 300W
4. DETAILS ON STRUCTURAL DRAWINGS SHOW DESIGN INTENT. REFER TO SPECIFICATIONS FOR CONNECTION DESIGN, DETAILING, FABRICATION, AND ERECTION REQUIREMENTS.
5. DO NOT CUT HOLES OR OTHERWISE MODIFY STRUCTURAL MEMBERS ON SITE.
6. CLEAN SURFACES DOWN TO BARE METAL AND APPLY TWO COATS OF ZINC-RICH TOUCH-UP PAINT TO ANY GALVANIZED SURFACE THAT HAS BEEN DAMAGED OR FIELD WELDED.
7. PROVIDE ALL ERECTION BRACING REQUIRED TO KEEP THE STRUCTURE STABLE AND IN ALIGNMENT DURING CONSTRUCTION.
8. WHERE STRUCTURAL DRAWINGS INDICATE PROTECTED ZONES, DO NOT FASTEN OR OTHERWISE CONNECT ANY STRUCTURAL OR NON-STRUCTURAL ELEMENT TO THOSE ZONES, WITH EXCEPTION OF STEEL DECK CONNECTED WITH 19 (3/4") PUDDLE WELDS. FAILURE TO ADHERE WILL REQUIRE COMPLETE REPLACEMENT OF THE AFFECTED MEMBER.
9. WHERE MOMENT CONNECTIONS ARE SHOWN ON PLAN PROVIDE CONNECTION FOR FULL MEMBER CAPACITY UNLESS NOTED OTHERWISE.
10. DISTRIBUTE HANGER LOADS FROM MECHANICAL AND HEAVY ELECTRICAL SERVICES SUSPENDED FROM STEELWORK UNIFORMLY ALONG MEMBERS. DO NOT CAUSE TWISTING OF STEEL MEMBERS OR EXCESSIVE BENDING OF MEMBER FLANGES. ALTERNATE HANGER POSITION ON EITHER SIDE OF MEMBERS.
11. WHERE SEISMIC RESTRAINTS ARE REQUIRED FOR NON-STRUCTURAL ELEMENTS, APPLY LOADS IN THE PLANE OF PRIMARY STRUCTURAL ELEMENTS, AND DO NOT EXCEED 1.5kN.
12. DO NOT APPLY LATERAL LOADS TO MEMBERS UNLESS APPROVED BY THE CONSULTANT.
13. AESS MEMBERS: ERECT USING SOFTENED SLINGS OR OTHER METHODS SUCH THAT THEY ARE NOT DAMAGED. PROVIDE PADDING AS REQUIRED TO PROTECT WHILE RIGGING AND ALIGNING. WELD TABS FOR TEMPORARY BRACINGS AND SAFETY CABLING ONLY AT POINTS CONCEALED FROM VIEW IN THE COMPLETE STRUCTURE OR WHERE APPROVED BY THE CONSULTANT.
14. AESS MEMBERS: REMOVE ALL FIELD CONNECTION AIDS ADDED TO ALLOW ALIGNMENT, FIT UP AND WELDING. REMOVE WELDS AT RUN-OUT TABS TO MATCH ADJACENT SURFACE, AND GRIND SMOOTH. PLUG WELD AND GRIND SMOOTH HOLES FOR ERECTION BOLTS.
15. GROUT UNDER BASE PLATES AND BEARING PLATES USING PROCEDURES IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS. PROVIDE 100% CONTACT OVER GROUTED AREA.
16. GROUT COLUMN BASE PLATES AND BEAM BEARING PLATES AS SOON AS STEELWORK IS COMPLETED. DO NOT ADD LOAD ON STEELWORK UNTIL GROUTING IS COMPLETED AND GROUT STRENGTH HAS REACHED AT LEAST 20 MPA.

## STEEL JOISTS — GN-013

1. CONFORM TO CSA S16 "LIMIT STATES DESIGN OF STEEL STRUCTURES" AND CSA S136 "NORTH AMERICAN SPECIFICATION FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS".
2. MATERIALS: TO CSA G40.21 OR ASTM A500.
3. DESIGN STEEL JOISTS FOR THE LOADS AND STIFFNESS DESCRIBED ON THE STRUCTURAL DRAWINGS. LIMIT TOTAL DEFLECTIONS TO L/240 AND DEFLECTIONS UNDER LIVE OR SNOW LOADS TO L/360, UNLESS OTHERWISE NOTED.
4. DO NOT MODIFY STEEL JOISTS ON SITE.
5. ANCHOR BRIDGING TO FRAMING MEMBERS AND SUPPORTS AS PER TYPICAL DETAILS.
6. FOR JOISTS BEARING ON MASONRY OR CONCRETE WALLS, DESIGN BEARING PLATES AND ANCHORAGE TO SUIT JOIST REACTION FOR GRAVITY AND UPLIFT LOADS. COORDINATE WITH BEAM BEARING PLATE LOCATIONS. FOR COMMON BEARING, PROVIDE NECESSARY SEATS AND ENLARGE BEARING PLATES AS REQUIRED FOR THE ADDITIONAL LOAD.
7. WHEN SUSPENDING VERTICAL LOADS FROM TOP OR BOTTOM JOIST CHORDS, DISTRIBUTE HANGERS UNIFORMLY ALONG JOISTS. DO NOT CAUSE TWISTING OF JOISTS OR JOIST CHORDS. EXTEND HANGER RODS BETWEEN DOUBLE ANGLE CHORDS WHERE POSSIBLE; OTHERWISE ATTACH USING ONLY CLAMPS OR U-BOLTS. IF THE APPLIED LOAD IS MORE THAN 1.5 kN, LOCATE SUSPENSION POINT NOT MORE THAN 100 (4") FROM JOIST PANEL POINT.
8. WHERE SEISMIC RESTRAINTS ARE REQUIRED FOR NON-STRUCTURAL ELEMENTS, APPLY LOADS IN THE PLANE OF THE JOISTS, AND DO NOT EXCEED 1.5kN. DO NOT APPLY CONCENTRATED MOMENTS.
9. DO NOT APPLY LATERAL LOADS TO ANY JOISTS.
10. AESS JOISTS:1 ERECT USING SOFTENED SLINGS OR OTHER METHODS SUCH THAT THEY ARE NOT DAMAGED. PROVIDE PADDING AS REQUIRED TO PROTECT WHILE RIGGING AND ALIGNING.

## STEEL ROOF DECK & COMPOSITE FLOOR SLABS — GN-014

1. CONFORM TO S136 "NORTH AMERICAN SPECIFICATION FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS" FOR STEEL DECKING, AND TO CONCRETE AND CONCRETE REINFORCEMENT NOTES.
2. STEEL DECK MATERIAL: TO ASTM A653/653M OR ASTM A792/792M, GRADE 230.
3. DESIGN STEEL DECK AND CONNECTING FASTENERS FOR THE LOADS DESCRIBED ON THE STRUCTURAL DRAWINGS. LIMIT TOTAL DEFLECTIONS TO L/240 AND DEFLECTIONS UNDER LIVE OR SNOW LOADS TO L/360. REFER TO PLANS AND SPECIFICATIONS FOR LOADING AND PERFORMANCE REQUIREMENTS.
4. DECK THICKNESS AND DECK FASTENERS SHOWN ON THE DRAWINGS ARE MINIMUM REQUIREMENTS. ALTERNATIVE SOLUTIONS MAY BE PROPOSED BY DECK SUPPLIER'S ENGINEER.
5. MINIMUM DECK FASTENING REQUIREMENTS (IF DIAPHRAGM SHEAR AND / OR DECK FASTENERS ARE NOT NOTED ON PLAN) ARE AS FOLLOWS:
   DIAPHRAGM SHEAR: 5 kN/m (MINIMUM)
   TRANSVERSE FASTENERS
   19 (3/4") DIAMETER ARC SPOT WELDS, OR HILTI DIRECT FASTENERS, PLACED IN EVERY SECOND FLUTE. IN ADDITION, PLACE TWO FASTENERS IN FLUTES WHERE SIDE LAPS ARE MADE, ONE EACH SIDE OF LAP.
   LONGITUDINAL FASTENERS
   TYPE TO MATCH TRANSVERSE FASTENERS, SPACED AT 450 (18") ON CENTRE
   SIDELAPS
   MECHANICALLY CLINCHED (BUTTON PUNCHED) OR FASTENED WITH #10 SCREWS, SPACED AT 230 (9") ON CENTRE
6. STEEL ROOF DECK IS DESIGNED TO SUPPORT UNIFORMLY DISTRIBUTED LOADS INDICATED ON DRAWINGS AND MAY NOT BE ABLE TO RESIST CONCENTRATED LOADS. DO NOT HANG ANY CONCENTRATED LOADS FROM STEEL ROOF DECK, AND ATTACH TO STRUCTURAL STEEL FRAMING INSTEAD.

## LOAD BEARING MASONRY — GN-017

1. CONFORM TO CSA A371 "MASONRY CONSTRUCTION FOR BUILDINGS" AND CSA S304.1 "DESIGN OF MASONRY STRUCTURE
2. MATERIALS:
   - A. HOLLOW BLOCK: CSA A165.1 - H"15/A/M
   - B. SOLID BLOCK: CSA A165.1 - SP/15/A/M
   - C. MORTAR: CSA A179 - TYPE S
   - D. MASONRY GROUT: CSA A179M - COARSE GROUT, 1:3/2 - CEMENT: SAND: PEA-STONE BY VOLUME, WITH SLUMP, OR APPROVED PRE-BAGGED MATERIAL
3. MASONRY CONTRACTOR IS TO BE A MEMBER OF THE CANADIAN MASONRY CONTRACTORS ASSOCIATION.
4. NON LOAD-BEARING MASONRY WALLS ARE NOT NECESSARILY SHOWN ON STRUCTURAL DRAWINGS, SEE ARCHITECTURAL DRAWINGS
5. LAY UNITS IN RUNNING BOND. ALL FACE SHELLS TO BE FULLY BEDDED, UNLESS NOTED OTHERWISE.
6. DO NOT USE MORTAR WHERE GROUT IS SPECIFIED.
7. PROVIDE LADDER TYPE HORIZONTAL JOINT REINFORCING PER ARCHITECTURAL SPECIFICATIONS, UNLESS OTHERWISE NOTED. USE CORNER TYPE LADDER REINFORCING AT ALL MASONRY WALL CORNERS AND INTERSECTIONS.
8. PROVIDE LATERAL SUPPORT AT TOPS OF ALL WALLS, REFER TO TYPICAL DETAILS.
9. UNLESS OTHERWISE NOTED, PROVIDE MINIMUM 25 (1") DEFLECTION GAP AT TOP OF ALL NON LOAD BEARING MASONRY WALLS.
10. PROVIDE VERTICAL MOVEMENT JOINTS (MJ) IN LOAD BEARING WALLS AT LOCATIONS INDICATED ON PLANS, FILL WITH COMPRESSIBLE MATERIAL AS PER ARCHITECTURAL SPECIFICATIONS. EXTEND MOVEMENT JOINTS HEIGHT OF WALL, TERMINATING AT THE UNDERSIDE OF CONTINUOUS BOND BEAMS AT THE FLOOR OR ROOF (WHERE APPLICABLE).
11. PROVIDE VERTICAL MOVEMENT JOINTS (MJ) IN NON-LOAD BEARING WALLS AS INDICATED ON ARCHITECTURAL DRAWINGS AND SPECIFICATIONS.
12. PROVIDE STANDARD LINTELS OVER ALL OPENINGS IN NON-LOAD BEARING MASONRY WALLS AS SHOWN ON TYPICAL DETAILS. THE OPENINGS ARE NOT NECESSARILY SHOWN ON STRUCTURAL DRAWINGS, REFER TO ARCHITECTURAL, MECHANICAL AND ELECTRICAL DRAWINGS.
13. PROVIDE MIN. 190 (7-1/2") DEEP BOND BEAMS AT TOP OF WALLS. REINFORCE WITH MIN. 1-15 TOP AND BOTTOM CONTINUOUS AND GROUT SOLID. CARRY ALL VERTICAL REINFORCING BARS CONTINUOUSLY THROUGH BOND BEAM.WHERE DUCTILITY RD=2.0 IS REQUIRED (EXCEPT FOR SQUAT WALLS) : TERMINATE HORIZONTAL REINFORCING WITH 90 HOOKS.
14. REINFORCED MASONRY:
   - A. SEE PLANS AND DETAILS FOR STRUCTURAL MASONRY REINFORCING.
   - B. MASONRY CELLS TO BE REINFORCED ARE TO BE CLEAR OF CONDUITS AND OVER-HANGING MORTAR OR DEBRIS.
   - C. SPLICES FOR MASONRY WALL REINFORCING TO BE:

     | | |
     |---|---|
     | WIRE REINFORCING | 200 (8") |
     | 10M BARS | 450 (18") |
     | 15M BARS | 650 (26") |
     | 20M BARS | 900 (36") |
     | 25M BARS | 1300 (51") |

   - D. LOCATE VERTICAL BARS ACCURATELY WITHIN CELLS AS INDICATED ON DRAWINGS. HOLD IN POSITION AND BOTTOM. USE REBAR POSITIONERS AS REQUIRED.
   - E. PROVIDE VERTICAL DOWELS AT BASE OF WALLS TO MATCH VERTICAL REINFORCING. EMBED INTO SLAB WITH STANDARD HOOKS OR PROVIDE CLASS B LAP INTO FOUNDATION WALLS BELOW (AS APPLICABLE).
   - F. REINFORCE ALL SIDES OF WALL OPENINGS EXCEEDING 1000 (3'-6") IN WIDTH OR HEIGHT WITH ADDITIONAL 1-15 HORIZONTAL AND VERTICAL AS APPROPRIATE. EXTEND 600 (2'-0") BEYOND OPENING. PLACE HORIZONTAL BARS IN BLOCKS WITH PREFORMED CELLS WHICH ALLOW PASSING OF VERTICAL BARS. WHERE STEEL LINTELS ARE USED, OFFSET VERTICALS TO CLEAR LINTEL BEARING.
   - G. ADD 1-15 VERTICAL AT WALL ENDS AND ON EACH SIDE OF MOVEMENT JOINTS.
15. GROUTING MASONRY:
   - A. GROUT CELLS CONTAINING VERTICAL OR HORIZONTAL REINFORCEMENT ONLY. IF MASONRY WALLS ARE AS "GROUTED SOLID" ON PLAN, THEN GROUT ALL CELLS FULLY FOR FULL HEIGHT OF WALL.
   - B. USE LOW LIFT GROUTING PROCEDURE UNLESS OTHERWISE APPROVED IN WRITING BY THE STRUCTURAL CONSULTANT. PLACE GROUT IN LIFTS NOT EXCEEDING 1500 (5'-0") HEIGHT. TERMINATE EACH LIFT 40 (1 ½") BELOW TOP OF MASONRY UNIT.
   - C. UNLESS OTHERWISE NOTED, PREFILL VOIDS IN MASONRY UNITS BELOW BEAM AND JOIST SUPPORTS WITH GROUT FOR A MINIMUM VERTICAL DEPTH OF 600 (2'-0") AND A LENGTH EXTENDING MINIMUM 200 (8") BEYOND THE EDGES OF BEARING PLATES. SEE TYPICAL DETAILS FOR ADDITIONAL REINFORCING AND GROUTING UNDER ROOF BEAMS AND JOISTS.
   - D. FULLY GROUT ALL WALL POCKETS AFTER INSTALLATION OF STEEL BEAMS OR JOISTS.

## DRAWING ABBREVIATIONS

| | |
|---|---|
| AR | ANCHOR ROD |
| AESS | ARCHITECTURALLY EXPOSED STRUCTURAL STEEL |
| Af | FACTORED AXIAL LOAD IN kN |
| | (+ INDICATES TENSION, - INDICATES COMPRESSION) |
| ALT | ALTERNATE |
| ARCH | ARCHITECTURAL |
| B, BOT | BOTTOM |
| BCP | BORED CONCRETE PILE |
| BEW | BOTTOM EACH WAY |
| BLL | BOTTOM LOWER LAYER |
| BM | BEAM |
| BOF | BOTTOM OF FOOTING ELEVATION |
| BOP | BOTTOM OF PILE ELEVATION |
| BP | BEARING/BASE PLATE |
| BUL | BOTTOM UPPER LAYER |
| BUP | BOTTOM OF UNDERPINNING |
| CA | COLUMN ABOVE ONLY (NO COLUMN BELOW) |
| CAM | CAMBER |
| CANT | CANTILEVER |
| CB | COLUMN BELOW |
| C/C | CENTRE TO CENTRE |
| CEL | CUT OFF ELEVATION FOR PILES |
| CJ | CONTROL JOINT (CONCRETE) |
| CLR | CLEAR |
| ℄ | CENTRELINE |
| CNT | STEEL DECK CORE NOMINAL THICKNESS |
| CONSTR JT | CONSTRUCTION JOINT |
| COL | COLUMN |
| CONC | CONCRETE |
| CONT | CONTINUOUS |
| CP | CONNECTION PLATE |
| CWS | SEE GENERAL NOTES |
| CLS | SEE GENERAL NOTES |
| CSS | SEE GENERAL NOTES |
| C | STRUCTURAL STEEL CHANNEL |
| DCA | DRILLED CONCRETE ANCHOR |
| DET | DETAIL |
| DFL | DOUGLAS FIR-LARCH |
| DIA | DIAMETER |
| DIM | DIMENSION |
| DL | DEAD LOAD IN kN/m ² |
| DMA | DRILLED MASONRY ANCHOR |
| DO | DITTO |
| DP | DEEP |
| DWG | DRAWING |
| DWL | DOWEL |
| EA | EACH |
| ECR | EPOXY COATED REINFORCEMENT |
| EE | EACH END |
| EF | EACH FACE |
| EJ, | EXP JT EXPANSION JOINT |
| EL. | ELEV ELEVATION |
| EMBED | EMBEDMENT |
| EQ | EQUAL |
| EX, EXIST | EXISTING |
| FD | FLOOR DRAIN |
| FF | FAR FACE |
| FL | FLOOR |
| FMC | FULL MOMENT CONNECTION |
| FTG | FOOTING |
| fc | COMPRESSIVE STRENGTH OF CONC IN MPa |
| fy | YIELD STRENGTH IN MPa |
| GA | GAUGE |
| GALV | GALVANIZED STEEL |
| GB | GRADE BEAM |
| GL | GRIDLINE |
| h | TOTAL THICKNESS |
| HOR | HORIZONTAL |
| HEF | HORIZONTAL EACH FACE |
| HH | HOOK-HOOK (HOOK EACH END) |
| HIC | HORIZONTAL IN CENTRE |
| H | HOOK |
| HP | HIGH POINT |
| HSS | HOLLOW STRUCTURAL SECTION |
| IBA | INTEGRITY BARS ADDED |
| IBI | INTEGRITY BARS INTERIOR |
| IBE | INTEGRITY BARS EXTERIOR |
| ld | TENSION DEVELOPMENT LENGTH OF REBAR |
| ldc | COMPRESSION DEVELOPMENT LENGTH OF REBAR |
| L | SINGLE ANGLE |
| ,L ,2Ls | DOUBLE ANGLES |
| LE | LEFT END |
| LG | LONG/LENGTH 2 |
| LL | LIVE LOAD IN kN/m / LOWER LEVEL |
| LLH | LONG LEG HORIZONTAL |
| LLV | LONG LEG VERTICAL |
| LSV | LONG SIDE VERTICAL |
| LSH | LONG SIDE HORIZONTAL |
| LP | LOW POINT |
| L-1, L-2, etc. | SPECIAL LINTEL AS SHOWN IN SCHEDULE |
| MAX | MAXIMUM |
| Mf | FACTORED MOMENT IN kN.m |
| MJ | MOVEMENT JOINT (MASONRY) |
| MIN | MINIMUM |
| NF | NEAR FACE |
| NIC | NOT IN CONTRACT |
| NTS | NOT TO SCALE |
| O/C | ON CENTRE |
| O/O | OUT TO OUT |
| P | POINT LOAD IN kN |
| Pf | FACTORED POINT LOAD IN kN |
| PL | PLATE |
| RD | ROOF DRAIN |
| REINF | REINFORCEMENT |
| RE | RIGHT END |
| Rf | FACTORED VERTICAL REACTION IN kN |
| RHf | FACTORED HORIZONTAL REACTION IN kN |
| SDL | SUPERIMPOSED DL (EXCLUDING SELF-WEIGHT) IN kN/m |
| SECT | SECTION |
| SIM | SIMILAR |
| SLS | SERVICEABILITY LIMIT STATE |
| SL1, SL2, etc. | SHELF ANGLE 1, 2, ETC |
| SOG | SLAB ON GRADE |
| SPEC | SPECIFICATION |
| SPF | SPRUCE PINE FIR |
| STIR | STIRRUP |
| STIFF | STIFFENER |
| t | THICKNESS |
| T | TOP |
| T/O | TOP OF |
| TEW | TOP EACH WAY |
| TJ | TIE JOIST |
| TLL | TOP LOWER LAYER |
| TMf | FACTORED TORSION IN kN.m |
| TOC | TOP OF CONCRETE |
| TOF | TOP OF FOOTING |
| TOP | TOP OF PILE |
| TOS | TOP OF STEEL |
| TPC | TOP OF PILE CAP |
| TUL | TOP UPPER LAYER |
| TYP | TYPICAL |
| UL | UPPER LEVEL |
| ULS | ULTIMATE LIMIT STATE |
| U/S | UNDERSIDE |
| U/N | UNLESS NOTED |
| UPT | UPTURNED |
| VB | VERTICAL BRACING |
| VEF | VERTICAL EACH FACE |
| Vf | FACTORED SHEAR IN kN |
| V/C | VERTICAL IN CENTRE |
| VERT | VERTICAL |
| VSC | VERTICALLY SLOTTED CONNECTION TO ALLOW FOR DEFLECTION |
| VXB | VERTICAL CROSS BRACING ('X' SHAPE) |
| W | STRUCTURAL STEEL WIDE FLANGE BEAM |
| WC | WIND COLUMN |
| WWF | STRUCTURAL STEEL WELDED WIDE FLANGE BEAM |
| W.W.F | WELDED WIRE FABRIC |
| W / | WITH |
| ZRP | ZINC RICH PAINT |

## DRAWING LEGEND

- HOLE THROUGH CONCRETE BEAM
- HOLE THROUGH STEEL BEAM
- UL / LL — UPPER LEVEL BM/JOIST / LOWER LEVEL BM/JOIST
- MOMENT CONNECTION
- SDF — STEP DOWN FOOTING IN DIRECTION OF ARROW
- SIM. X / Y — X: SECTION NUMBER; Y: DRAWING REFERENCE
- CONCRETE MASONRY WALL
- FULLY GROUTED CONCRETE MASONRY WALL
- STRUCTURAL PRECAST CONCRETE
- CAST-IN PLACE CONCRETE
- LOAD BEARING WALL OR COLUMN BELOW
- G/L — NEW GRID LINE
- X — EXISTING GRID LINE REFERENCE
- ELEVATION / LEVEL NAME — ELEVATION SYMBOL
- STEP IN SLAB ON GRADE
- X — DRAWING REVISION NUMBER
- CURRENT REVISION CLOUD
- CONCRETE MASONRY LINTEL OR BOND BEAM BLOCK
- SOIL (SEE GEOTECH REPORT)
- GRANULAR SUBBASE (SEE GEOTECH REPORT)


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| 3 | ISSUED FOR TENDER | 2024-04-29 |
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DRAWING TITLE: GENERAL NOTES

ISSUE DATE: 2024-04-29

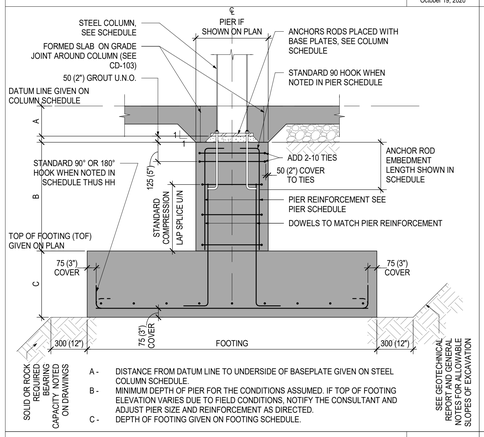
DRAWN BY: H.R. CHECKED BY: S.H.

PROJECT NO.: 23394 SCALE: As indicated

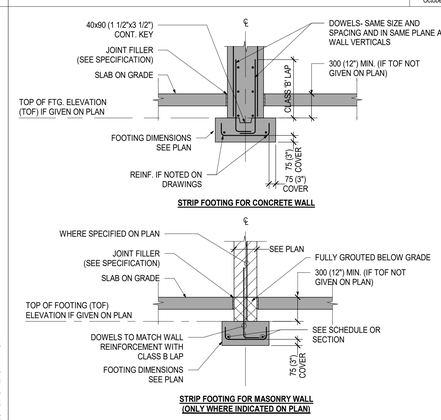
DRAWING NO.: S-101 REVISION: 3

LAST DATE: 2024-04-01 11:45:45 AM

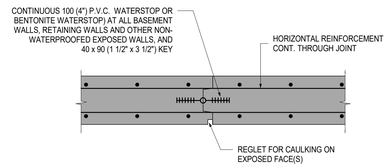
## FOOTING AT STEEL COLUMN — CD-002 — October 19, 2020



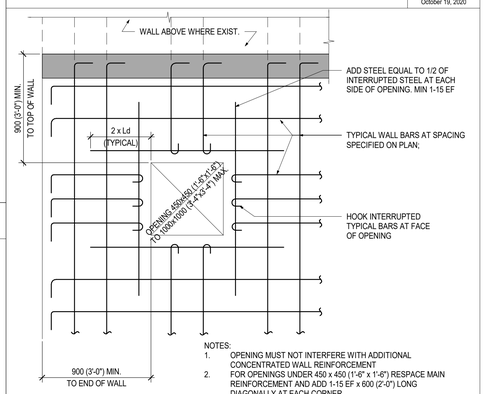

## STRIP FOOTING FOR WALLS — CD-007 — October 19, 2020



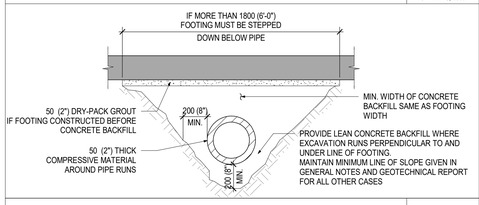

## CONSTRUCTION JOINT IN WALL — CD-502 — March 17, 2020



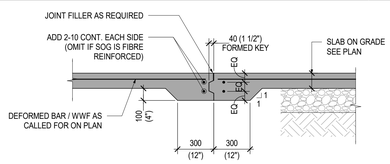

## ADDED REINFORCEMENT AROUND OPENING IN WALL — CD-505 — October 19, 2020



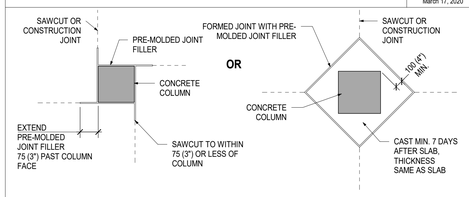

## BACKFILL AROUND PIPE UNDER STRIP FOOTING — CD-011 — October 19, 2020



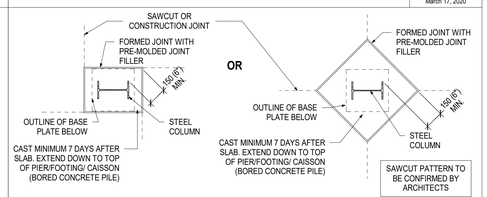

## CONSTRUCTION JOINT IN SLAB ON GRADE — CD-101 — October 19, 2020



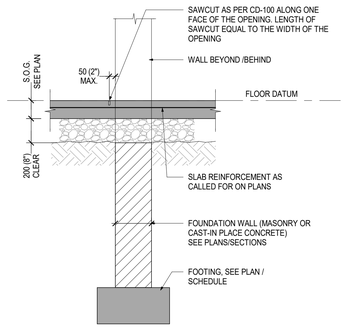

## SLAB ON GRADE JOINTS AROUND CONCRETE COLUMN — CD-102 — March 17, 2020



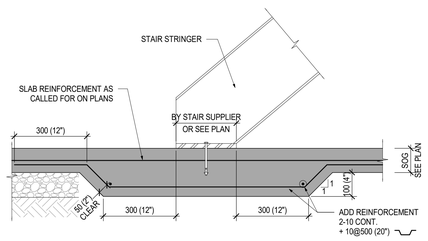

## TYPICAL SLAB ON GRADE JOINTS AROUND STEEL COLUMN — CD-103 — March 17, 2020




## SLAB ON GRADE CONTROL JOINT AT INTERIOR DOORWAY — CD-104 — March 17, 2020

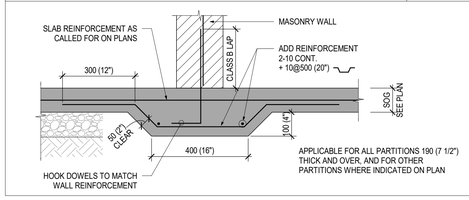



## SLAB ON GRADE THICKENING UNDER STEEL STAIRS — CD-108 — October 19, 2020

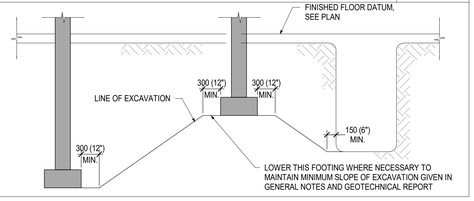



EXTEND SLAB ON GRADE THICKENING 300 (12") PAST STAIR EDGE (EACH SIDE)

## SLAB ON GRADE THICKENING UNDER MASONRY PARTITIONS — CD-105 — October 19, 2020




## SLOPE BETWEEN ADJACENT EXCAVATIONS — CD-012 — October 19, 2020





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DRAWING TITLE:

TYPICAL DETAILS

ISSUE DATE: 2024-04-29

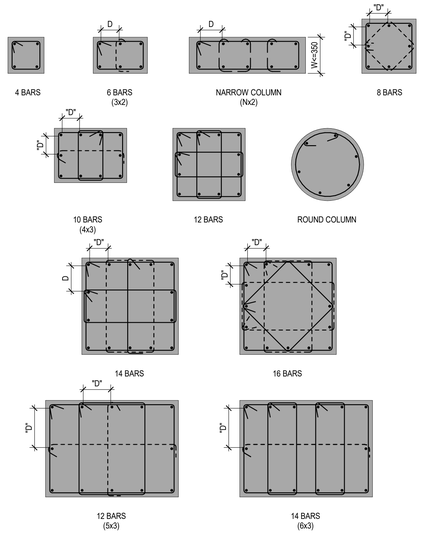
DRAWN BY: H.R. CHECKED BY: S.H.

PROJECT NO.: 23394 SCALE: 1 : 20

DRAWING NO.: S-102 REVISION: 3

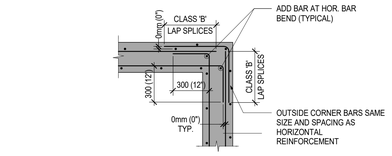

PLOT DATE: 2024-05-01 11:48:48

## TIE ARRANGEMENTS FOR COLUMNS, BORED CONCRETE PILES AND REINFORCED PIERS — CD-401

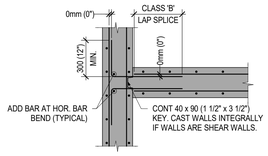



- FOR RECTANGULAR COLUMN, VERTICALS ARRANGEMENT IS GIVEN IN (YxZ) WITH Y BEING THE # OF VERTICALS PARALLEL TO THE LONG SIDE OF THE COLUMN AND Z BEING THE # OF VERTICALS PARALLEL TO THE SHORT SIDE OF THE COLUMN.
- FOR SQUARE COLUMNS, VERTICALS TO BE PLACED EQUALLY ON EACH SIDE OF COLUMN.
- IF DIMENSION "D" GREATER THAN 150(6") OR IF ADDITIONAL TIES ARE SPECIFIED, ADD TIES SHOWN DASHED.
- SEE CD-400 FOR "TYPICAL TIE SHAPES".
- FOR COLUMNS LESS THAN OR EQUAL TO 350 WIDE, REFER TO "NARROW COLUMN" DETAIL.

## INTERSECTING CONCRETE WALL REINFORCEMENT DETAILS — CD-500 March 17, 2020




**LAPPING AT CORNER WALL**

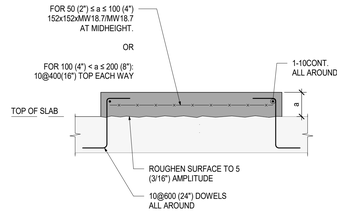



DOWELS SAME SIZE AND SPACING AS HORIZONTAL REINFORCEMENT. DOWELS NOT REQUIRED IF WALLS CAST TOGETHER AND HORIZONTAL REINFORCEMENT EXTENDED INTO INTERSECTING WALL AND HOOKED AS SHOWN.

**DOWELING OF INTERSECTING WALLS**

N.B. ALL WALL REINFORCEMENT TO BE SPLICED WITH CLASS 'B' LAPS

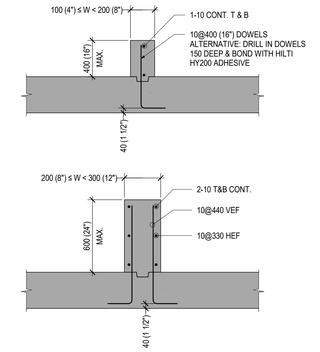
## HOUSEKEEPING PADS — CD-904 March 17, 2020




ALTERNATIVE: DRILL IN DOWELS 150 (6") DEEP & BOND WITH HILTI HY200 ADHESIVE

NOTES:
1. FOR PAD SIZES AND LOCATIONS, REFER TO MECHANICAL AND ELECTRICAL DRAWINGS.
2. FOR PADS MORE THAN 200 (8") THICK OBTAIN CONSULTANT'S APPROVAL PRIOR TO POURING.

## CURB DETAIL — CD-905 October 19, 2020




NOTE:
1. FOR CURB SIZES AND LOCATIONS, REFER TO ARCHITECTURAL AND MECHANICAL DRAWINGS.
2. UNLESS OTHERWISE NOTED, THIS DETAIL DOES NOT APPLY FOR CURBS SUPPORTING BALUSTRADE, RAILING, FALL ARREST ANCHORS OR WALL WITHOUT LATERAL SUPPORT AT TOP.
3. ALTERNATIVE: DRILL IN DOWELS 150 (6") DEEP & BOND WITH HILTI HY200 ADHESIVE.

## TENSION DEVELOPMENT LENGTHS AND TENSION LAP SPLICES - BAR GRADE 400 MPa — CD-900 March 17, 2020

FOR CONCRETE STRENGTHS NOT SHOWN BETWEEN 25 TO 50, VALUES ARE TO BE INTERPOLATED FROM NEAREST VALUES PROVIDED IN TABLE BELOW.

*TENSION DEVELOPMENT LENGTH FOR BAR GRADE 400 MPa, Ld, IN mm (in")*

- BLACK BARS (IN MEMBERS CONTAINING MINIMUM TIES OR STIRRUPS, A MINIMUM SPACING OF 2.0db, AND CLEAR COVER OF A MINIMUM OF 1.0db; OR ALL SLABS AND WALLS)
- FOR EPOXY BARS MULTIPLY VALUES IN TABLE BY 1.5 EXCEPT THAT A MULTIPLIER OF 1.2 CAN BE USED WHEN CLEAR COVER IS MORE THAN 3x BAR DIAMETER AND CLEAR SPACING BETWEEN BARS IS MORE THAN 6x BAR DIAMETER.
- FOR SEMI-LOW DENSITY CONCRETE MULTIPLY VALUES IN TABLE BY 1.2.
- FOR BUNDLED BARS, MULTIPLY VALUES IN TABLE BY 10% FOR A TWO BAR BUNDLE, 20% FOR A THREE BAR BUNDLE AND 33% FOR A FOUR BAR BUNDLE
- "TOP" MEANS THAT THERE IS MORE THAN 300 (12") OF CONCRETE BELOW, AND LESS THAN 300 (12") OF CONCRETE ABOVE THE HORIZONTAL BAR WITHIN THE INDIVIDUAL CONCRETE POUR.
- ALL VERTICAL BARS ARE CONSIDERED "BOTTOM" WITH MINIMUM STIRRUPS OR TRANSVERSE REINFORCEMENT AND A MIN SPACING OF 2.00b

| BAR SIZE | f'c = 25 | | f'c = 30 | | f'c = 35 | | f'c = 40 | | f'c = 50 | |
|---|---|---|---|---|---|---|---|---|---|---|
| | BOTTOM | TOP | BOTTOM | TOP | BOTTOM | TOP | BOTTOM | TOP | BOTTOM | TOP |
| 10 | 300 (12") | 380 (15") | 300 (12") | 350 (14") | 300 (12") | 320 (13") | 300 (12") | 300 (12") | 300 (12") | 300 (12") |
| 15 | 440 (17") | 570 (23") | 400 (16") | 520 (21") | 370 (14") | 480 (19") | 350 (14") | 450 (18") | 310 (12") | 400 (16") |
| 20 | 580 (23") | 750 (30") | 530 (21") | 690 (27") | 490 (19") | 640 (25") | 460 (18") | 600 (24") | 410 (16") | 530 (21") |
| 25 | 900 (36") | 1170 (46") | 830 (32") | 1070 (42") | 770 (30") | 990 (39") | 720 (28") | 930 (37") | 640 (25") | 830 (33") |
| 30 | 1080 (43") | 1410 (55") | 990 (39") | 1290 (51") | 920 (36") | 1190 (47") | 860 (34") | 1110 (44") | 770 (30") | 1000 (39") |
| 35 | 1260 (50") | 1640 (65") | 1160 (46") | 1500 (60") | 1070 (42") | 1390 (55") | 1000 (40") | 1300 (52") | 900 (35") | 1160 (46") |

*CLASS B TENSION LAP SPLICES LENGTH FOR BAR GRADE 400 MPa IN mm (in")*

- BLACK BARS (IN MEMBERS CONTAINING MINIMUM TIES OR STIRRUPS, A MINIMUM SPACING OF 2.0db, AND CLEAR COVER OF A MINIMUM OF 1.0db; OR ALL SLABS AND WALLS)
- FOR EPOXY BARS MULTIPLY VALUES IN TABLE BY 1.5 EXCEPT THAT A MULTIPLIER OF 1.2 CAN BE USED WHEN CLEAR COVER IS MORE THAN 3x BAR DIAMETER AND CLEAR SPACING BETWEEN BARS IS MORE THAN 6x BAR DIAMETER
- FOR SEMI LOW DENSITY CONCRETE MULTIPLY VALUES IN TABLE BY 1.2
- FOR BUNDLED BARS, MULTIPLY VALUES IN TABLE BY 10% FOR A TWO BAR BUNDLE, 20% FOR A THREE BAR BUNDLE AND 33% FOR A FOUR BAR BUNDLE
- "TOP" MEANS THAT THERE IS MORE THAN 300 (12") OF CONCRETE BELOW, AND LESS THAN 300 (12") OF CONCRETE ABOVE THE HORIZONTAL BAR WITHIN THE INDIVIDUAL CONCRETE POUR.
- ALL VERTICAL BARS ARE CONSIDERED "BOTTOM"

| BAR SIZE | f'c = 25 | | f'c = 30 | | f'c = 35 | | f'c = 40 | | f'c = 50 | |
|---|---|---|---|---|---|---|---|---|---|---|
| | BOTTOM | TOP | BOTTOM | TOP | BOTTOM | TOP | BOTTOM | TOP | BOTTOM | TOP |
| 10 | 380 (15") | 490 (19") | 350 (14") | 450 (18") | 320 (13") | 420 (17") | 300 (12") | 390 (15") | 300 (12") | 350 (14") |
| 15 | 570 (23") | 740 (29") | 520 (21") | 670 (27") | 480 (19") | 620 (25") | 450 (18") | 580 (23") | 400 (16") | 520 (20") |
| 20 | 750 (29") | 980 (39") | 690 (27") | 890 (35") | 640 (25") | 830 (33") | 600 (24") | 770 (30") | 530 (21") | 690 (27") |
| 25 | 1170 (46") | 1530 (61") | 1070 (42") | 1390 (55") | 990 (39") | 1290 (51") | 930 (37") | 1210 (48") | 830 (33") | 1080 (43") |
| 30 | 1410 (56") | 1830 (72") | 1290 (51") | 1670 (66") | 1190 (47") | 1550 (61") | 1110 (44") | 1450 (57") | 1000 (39") | 1300 (51") |
| 35 | 1640 (65") | 2130 (84") | 1500 (60") | 1950 (77") | 1390 (55") | 1800 (72") | 1300 (52") | 1690 (67") | 1160 (46") | 1510 (59") |

*MINIMUM TENSION EMBEDMENT LENGTH WITH STANDARD END HOOKS FOR BAR GRADE 400 MPa IN mm (in")*

- BLACK BARS
- FOR EPOXY BARS MULTIPLY VALUES IN TABLE BY 1.2
- FOR SEMI LOW DENSITY CONCRETE MULTIPLY VALUES IN TABLE BY 1.2
- IF SIDE COVER (PERPENDICULAR TO THE PLANE OF THE HOOK) IS < 60 (2.5") DIVIDE VALUES IN TABLE BY 0.70.

| BAR SIZE | f'c = 25 | f'c = 30 | f'c = 35 | f'c = 40 | f'c = 50 |
|---|---|---|---|---|---|
| 10 | 150 (6") | 150 (6") | 150 (6") | 150 (6") | 150 (6") |
| 15 | 210 (8") | 200 (8") | 180 (7") | 170 (7") | 150 (6") |
| 20 | 280 (11") | 260 (10") | 240 (10") | 230 (9") | 200 (8") |
| 25 | 350 (14") | 320 (13") | 300 (12") | 280 (11") | 250 (9") |
| 30 | 420 (17") | 390 (16") | 360 (14") | 340 (14") | 300 (11") |
| 35 | 490 (20") | 450 (18") | 420 (17") | 390 (16") | 350 (13") |

## COMPRESSION DEVELOPMENT LENGTHS AND LAP SPLICES LENGTHS - BAR GRADE 400 MPa — CD-901 March 17, 2020

**COMPRESSION DEVELOPMENT LENGTH FOR BAR GRADE 400 MPa, Ldc IN mm (in")**

| BAR SIZE | f'c = 25 | f'c = 30 | f'c = 35 | f'c = 40 | f'c = 50 |
|---|---|---|---|---|---|
| 10 | 220 (9") | 200 (8") | 200 (8") | 200 (8") | 200 (8") |
| 15 | 310 (12") | 280 (11") | 280 (11") | 280 (11") | 280 (11") |
| 20 | 380 (15") | 340 (13") | 340 (13") | 340 (13") | 340 (13") |
| 25 | 490 (19") | 440 (17") | 440 (17") | 440 (17") | 440 (17") |
| 30 | 580 (23") | 530 (21") | 530 (21") | 530 (21") | 530 (21") |
| 35 | 690 (27") | 630 (25") | 630 (25") | 630 (25") | 630 (25") |

**COMPRESSION LAP SPLICE LENGTHS IN mm (in")**

| BAR SIZE | STANDARD LAP |
|---|---|
| 10 | 300 (12") |
| 15 | 440 (17") |
| 20 | 590 (23") |
| 25 | 730 (29") |
| 30 | 880 (35") |
| 35 | 1030 (41") |

- IF VALUE NOT PROVIDED IN TABLE FOR ANY CONCRETE STRENGTH BETWEEN 25 TO 50, VALUES ARE TO BE INTERPOLATED FROM NEAREST VALUES PROVIDED.

- FOR BUNDLED BARS, MULTIPLY VALUES IN TABLE BY 10% FOR A TWO BAR BUNDLE, 20% FOR A THREE BAR BUNDLE AND 33% FOR A FOUR BAR BUNDLE

PLOT DATE: 2024-04-29 11:45:00 ; JOB

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**CITY OF MISSISSAUGA FIRE STATION 123**

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| NO. | ISSUES/REVISIONS | DATE |
|---|---|---|
| 3 | ISSUED FOR TENDER | 2024-04-29 |
| 2 | ISSUED FOR BUILDING PERMIT | 2024-01-22 |
| 1 | ISSUED FOR CLASS A ESTIMATE | 2024-01-22 |

DRAWING TITLE:

TYPICAL DETAILS

ISSUE DATE: 2024-04-29

DRAWN BY: H.R. CHECKED BY: S.H.

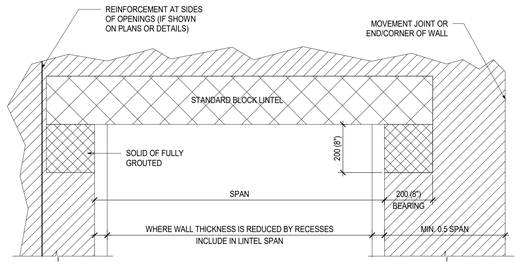
PROJECT NO.: 23394 SCALE: 1 : 20

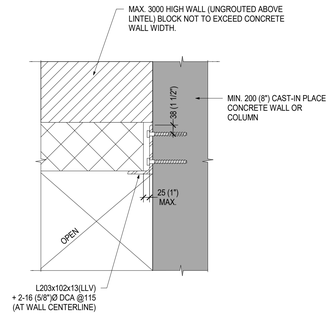
DRAWING NO.: S-103 REVISION: 3

## TYPICAL MASONRY LINTELS IN NON-LOAD BEARING WALLS

MD-300
October 29, 2020

SEE SD-312 FOR STANDARD STEEL LINTELS

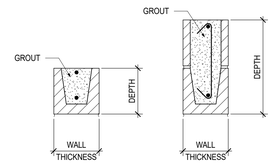



| WALL THICKNESS | SPAN | BLOCK LINTEL DEPTH | REINFORCEMENT TOP & BOTTOM |
|---|---|---|---|
| 90 (4") | UP TO 1200 (4'-0") | 190 | 1-10 |
| | 1200 (4'-0") TO 1800 (6'-0") | N/A | N/A |
| | 1800 (6'-0") TO 2400 (8'-0") | N/A | N/A |
| | 2400 (8'-0") TO 3000 (10'-0") | N/A | N/A |
| 140 (6") | UP TO 1200 (4'-0") | 190 | 1-10 |
| | 1200 (4'-0") TO 1800 (6'-0") | 190 | 1-10 |
| | 1800 (6'-0") TO 2400 (8'-0") | 390 | 1-10 +1-10@200 (8") STIRRUP |
| | 2400 (8'-0") TO 3000 (10'-0") | N/A | N/A |
| 190 (8") | UP TO 1200 (4'-0") | 190 | 1-15 |
| | 1200 (4'-0") TO 1800 (6'-0") | 190 | 1-15 |
| | 1800 (6'-0") TO 2400 (8'-0") | 390 | 1-10 +1-10@200 (8") STIRRUP |
| | 2400 (8'-0") TO 3000 (10'-0") | 390 | 1-10 +1-10@200 (8") STIRRUP |
| 240 (10") | UP TO 1200 (4'-0") | 190 | 1-15 |
| | 1200 (4'-0") TO 1800 (6'-0") | 190 | 1-15 |
| | 1800 (6'-0") TO 2400 (8'-0") | 390 | 1-10 +1-10@200 (8") STIRRUP |
| | 2400 (8'-0") TO 3000 (10'-0") | 390 | 1-10 +1-10@200 (8") STIRRUP |
| 290 (12") | UP TO 1200 (4'-0") | 190 | 1-15 |
| | 1200 (4'-0") TO 1800 (6'-0") | 190 | 1-15 |
| | 1800 (6'-0") TO 2400 (8'-0") | 390 | 1-10 +1-10@200 (8") STIRRUP |
| | 2400 (8'-0") TO 3000 (10'-0") | 390 | 1-10 +1-10@200 (8") STIRRUP |

NOTES:

1. DO NOT USE MASONRY LINTELS FOR OPENINGS WHERE MOVEMENT JOINT OR WALL END OR CORNER IS LOCATED LESS THAN 0.5 OF THE LINTEL SPAN AWAY FROM THE FACE OF THE OPENING.
2. STANDARD LINTELS ARE NOT NECESSARILY SHOWN ON STRUCTURAL DRAWINGS. REFER TO ARCHITECTURAL, MECHANICAL AND ELECTRICAL DRAWINGS FOR OPENING LOCATIONS.
3. SEE PLANS FOR SPECIAL LINTELS.
4. FILL LINTEL BLOCKS WITH 20MPa GROUT. IT IS NOT ACCEPTABLE TO FILL LINTELS WITH MORTAR.




**MASONRY LINTEL**

## SEISMIC REINFORCEMENT FOR NON-LOAD BEARING MASONRY WALLS (0.35≤IeFaSa(0.2)<0.75)

MD-500B
March 17, 2020

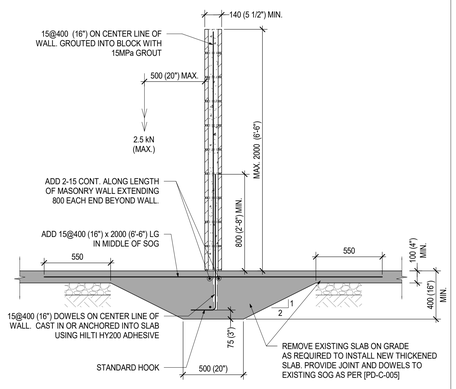
| WALL THICKNESS | VERTICAL REINFORCEMENT | HORIZONTAL JOINT REINFORCEMENT |
|---|---|---|
| 140 (6") | 1-15@800 (2'-8") | 2-3.66 @ 400 (16") |
| 190 OR 240 (8" OR 10") | 1-15@1200 (4'-0") | 2-3.66 @ 400 (16") |
| 290 (12") | 1-15@1000 (3'-4") | 2-3.66 @ 400 (16") |

- USE DEFORMED WIRE JOINT REINFORCEMENT.
- LAP SPLICE VERTICAL REINFORCEMENT 420 (16").
- LAP SPLICE JOINT REINFORCEMENT 300 (12").

SEISMIC REINFORCEMENT IS NOT REQUIRED FOR UNGROUTED INTERIOR WALLS 140 (6") OR LESS (EXCLUDING ELEVATOR SHAFT AND STAIRWELL WALLS), WHICH ARE NOT OVER 3000 (10'-0") IN HEIGHT AND ARE LATERALLY SUPPORTED AT THE TOP.

## FREE STANDING MASONRY PARTITION ON SLAB GRADE

MD-501
August 03, 2021

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DRAWING TITLE:

TYPICAL DETAILS

ISSUE DATE: 2024-04-29

DRAWN BY: H.R. CHECKED BY: S.H.

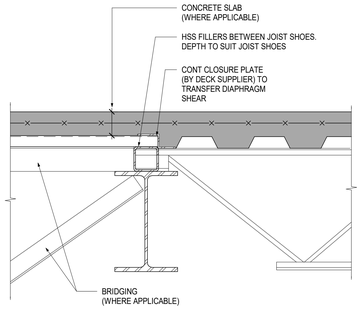
PROJECT NO.: 23394 SCALE: 1 : 20

DRAWING NO.: S-104

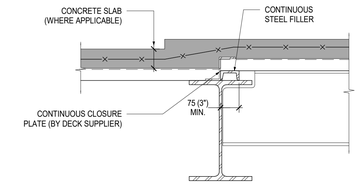
REVISION: 3


LAST PLOT DATE: 2024-05-01 11:48:51

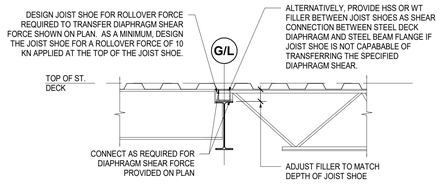
## STEEL DECK AT CHANGE OF SPAN DIRECTION — SD-200
October 29, 2020



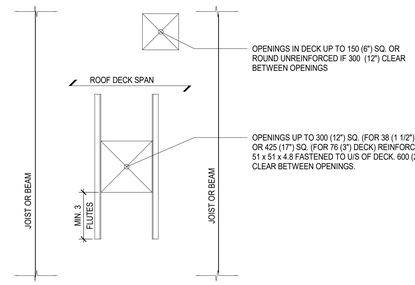

## STEEL DECK AT CHANGE IN LEVEL — SD-201
March 17, 2020




## TYPICAL DIAPHRAGM SHEAR CONNECTION DETAIL — SD-208
October 29, 2020

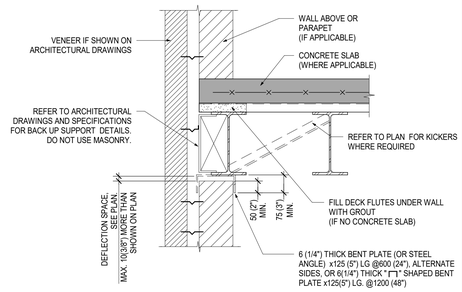



## ROOF DECK OPENINGS — SD-206
March 17, 2020




- ALL LARGER OPENINGS AND OPENINGS SPACED CLOSER THAN SPECIFIED ABOVE TO BE FRAMED BY STRUCTURAL STEEL, SEE DRAWING NOTES.

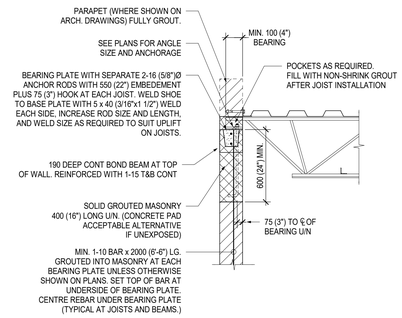
## LATERAL SUPPORT OF MASONRY AT PERIMETER STEEL BEAM — SD-301
October 29, 2020




## ROOF JOIST BEARING ON MASONRY (FROM ONE SIDE ONLY) — SD-302
October 29, 2020

MASONRY BEARING

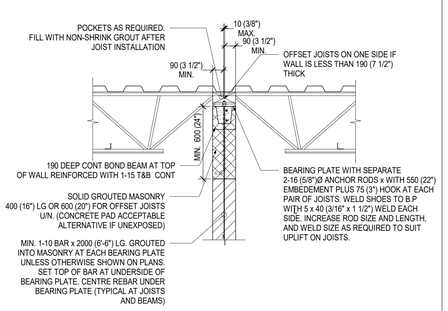
PROVIDE SOLID GROUT FILLED BLOCK CENTRED UNDER JOIST SHOES, LENGTH OF SHOE PERPENDICULAR TO WALL SHALL BE 100 (4") MIN., WITH C OF BEARING 75 (3") MINIMUM FROM FACE OF WALL UNLESS OTHERWISE SHOWN ON DWG'S. FACTORED BEARING STRESS UNDER JOIST BEARING PLATE SHALL NOT EXCEED 1.65 MPa.




## ROOF JOISTS BEARING ON MASONRY (FROM TWO SIDES) — SD-303
October 29, 2020

MASONRY BEARING

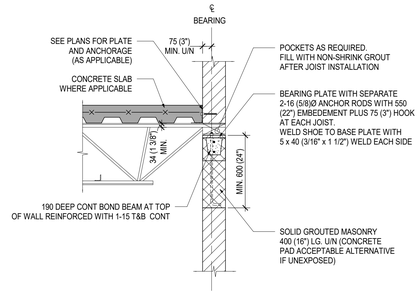
- PROVIDE SOLID GROUT FILLED BLOCK CENTRED UNDER JOIST SHOES, LENGTH OF SHOE PERPENDICULAR TO WALL SHALL BE 90 (3 1/2") MIN., WITH ℄ OF BEARING 45 (1 3/4") MINIMUM FROM FACE OF WALL UNLESS OTHERWISE SHOWN ON DWG'S. FACTORED BEARING STRESS UNDER JOIST BEARING PLATE SHALL NOT EXCEED 1.65 MPa.
- WHERE SPAN OF THE JOIST AT ONE SIDE OF THE WALL IS MORE THAN TWICE THE SPAN OF THE JOIST AT THE OTHER SIDE OF THE WALL, OFFSET JOISTS AND CENTER REACTION MIN. 75 (3") FROM FACE OF WALL.
- MAXIMUM JOIST OFFSET NOT TO EXCEED 150 (6").




## FLOOR JOIST BEARIING ON MASONRY (FROM ONE SIDE ONLY) — SD-304
October 29, 2020

MASONRY BEARING

PROVIDE SOLID FILLED BLOCK CENTRED UNDER JOIST SHOES, LENGTH OF SHOE PERPENDICULAR TO WALL SHALL BE 100 (4") MIN., WITH C OF BEARING 75 (3") MINIMUM FROM FACE OF WALL UNLESS OTHERWISE SHOWN ON DWG'S. FACTORED BEARING STRESS UNDER JOIST BEARING PLATE SHALL NOT EXCEED 1.65 MPa.

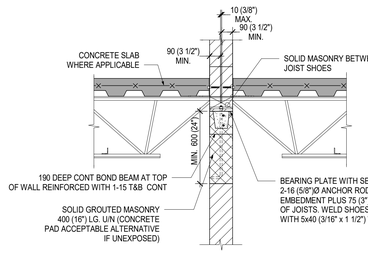



## FLOOR JOIST ON MASONRY (FROM TWO SIDES) — SD-305
October 29, 2020

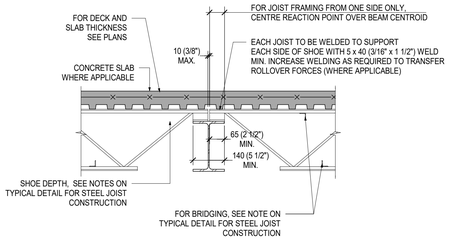
MASONRY BEARING

PROVIDE SOLID FILLED BLOCK CENTERED UNDER JOIST SHOES, LENGTH OF SHOE PERPENDICULAR TO WALL SHALL BE 90 (3 1/2") MIN., WITH C OF BEARING 45 (1 3/4") MINIMUM FROM FACE OF WALL UNLESS OTHERWISE SHOWN ON DWGS. FACTORED BEARING STRESS UNDER JOIST BEARING PLATE SHALL NOT EXCEED 1.65 MPa.

- WHERE SPAN OF THE JOIST AT ONE SIDE OF THE WALL IS MORE THAN TWICE THE SPAN OF THE JOIST AT THE OTHER SIDE OF THE WALL, OFFSET JOISTS AND CENTER REACTION MIN. 75 (3") FROM FACE OF WALL.
- MAXIMUM JOIST OFFSET NOT TO EXCEED 150 (6").



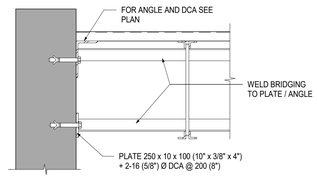

## TYPICAL JOIST BEARING ON STEEL BEAM — SD-306
October 29, 2020



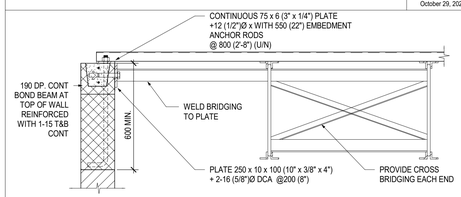

NOTES:

1. AT BEAMS SUPPORTING JOISTS FRAMING FROM BOTH SIDES, WHERE SPAN OF THE JOIST AT ONE SIDE OF THE BEAM IS MORE THAN TWICE THE SPAN OF THE JOIST AT THE OTHER SIDE OF THE BEAM, OFFSET JOISTS AND CENTRE REACTION POINTS OVER BEAM CENTROID.
2. IF THE SUPPORTING BEAM FLANGE WIDTH IS LESS THAN 140 (5 1/2"), OFFSET JOISTS AND CENTRE REACTION POINTS OVER BEAM CENTROID.
3. MAXIMUM JOIST OFFSET NOT TO EXCEED 150 (6").

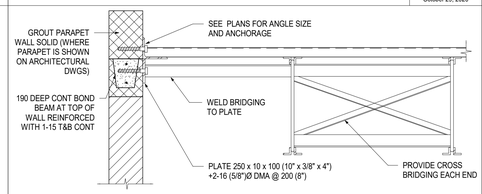
## ANCHORAGE OF BRIDGING AND STEEL DECK TO CONCRETE — SD-307
October 29, 2020



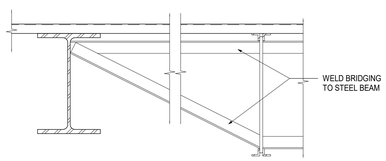

## ANCHORAGE OF BRIDGING AND STEEL DECK TO MASONRY — SD-308A
October 29, 2020



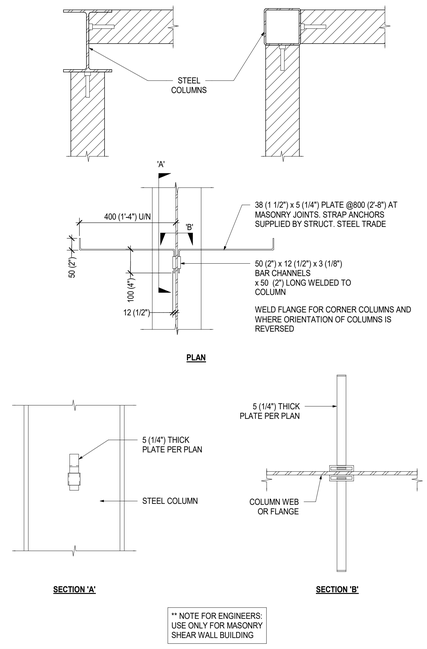

## ANCHORAGE OF BRIDGING AND STEEL DECK TO MASONRY — SD-308B
October 29, 2020




## ANCHORAGE OF BRIDGING TO STEEL — SD-309
March 17, 2020

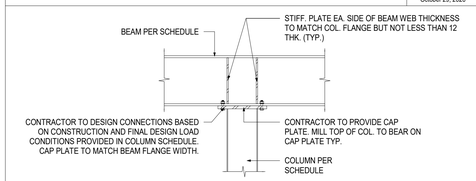



## ANCHORAGE OF ABUTTING LOAD BEARING MASONRY WALLS TO STEEL COLUMNS — SD-400

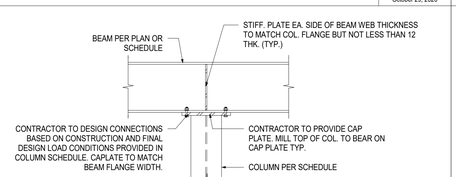



** NOTE FOR ENGINEERS:
USE ONLY FOR MASONRY
SHEAR WALL BUILDING

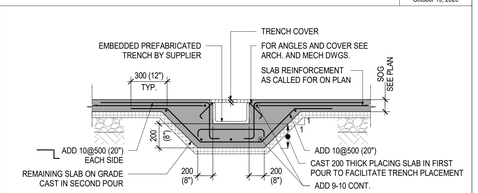
## TYPICAL STEEL BEAM BEARING ON COLUMN (PARALLEL WEB) — SD-311
October 29, 2020




## TYPICAL STEEL BEAM BEARING ON COLUMN (PERPENDICULAR WEB) — SD-312
October 29, 2020




## TRENCH DRAIN IN SLAB ON GRADE — PD-109
October 19, 2020





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|---|---|---|
| 3 | ISSUED FOR TENDER | 2024-04-29 |
| 2 | ISSUED FOR BUILDING PERMIT | 2024-01-22 |
| 1 | ISSUED FOR CLASS A ESTIMATE | 2024-01-22 |

DRAWING TITLE:

TYPICAL DETAILS

ISSUE DATE: 2024-04-29

DRAWN BY: H.R. CHECKED BY: S.H.

PROJECT NO.: 23394 SCALE: 1 : 20

DRAWING NO.: S-105 REVISION: 3

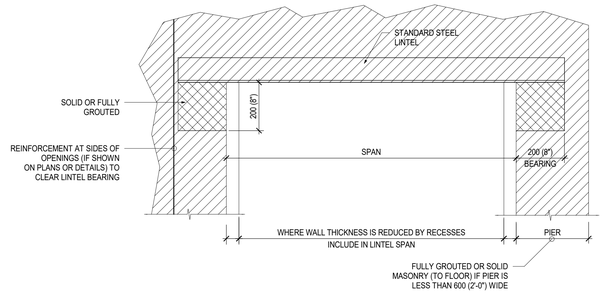

DR.DT.DATE 2024-05-01 11:44:53 J:

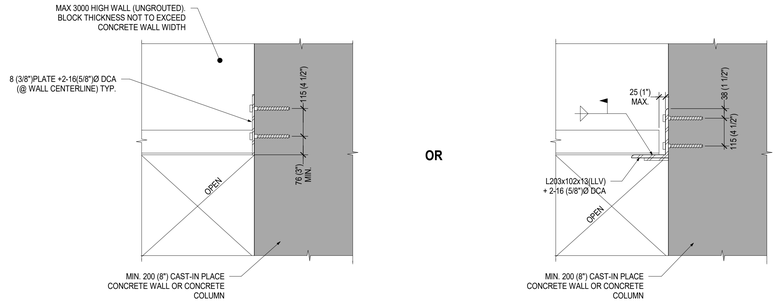
# TYPICAL STEEL LINTELS IN NON LOAD BEARING MASONRY WALLS

SD-310
March 17, 2020

NOTES:

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




**LINTEL SUPPORTED BY POURED CONCRETE WALL**

| WALL THICKNESS | SPAN | ANGLE SIZE | DETAIL |
|---|---|---|---|
| 90 (4") VENEER | UP TO 1200 (4'-0") | L89x89x6.4 | |
| | 1200 (4'-0") TO 1800 (6'-0") | L127x89x6.4 | |
| | 1800 (6'-0") TO 2400 (8'-0") | L127x89x6.4 | |
| | 2400 (8'-0") TO 3000 (10'-0") | L152x89x9.5 | |
| 140 (6") | UP TO 1200 (4'-0") | 2- L64x64x6.4 | |
| | 1200 (4'-0") TO 1800 (6'-0") | 2 - L89x64x6.4 | |
| | 1800 (6'-0") TO 2400 (8'-0") | 2 - L89x64x7.9 W/ 100x10 PLATE | |
| | 2400 (8'-0") TO 3000 (10'-0") | N/A | |
| 190 (8") | UP TO 1200 (4'-0") | 2 - L76x89x6.4 | |
| | 1200 (4'-0") TO 1800 (6'-0") | 2 - L89x89x6.4 | |
| | 1800 (6'-0") TO 2400 (8'-0") | 2 - L102x89x7.9 | |
| | 2400 (8'-0") TO 3000 (10'-0") | 2 - L152x89x7.9 | |
| 240 (10") | UP TO 1200 (4'-0") | 2 - L76x102x6.4 | |
| | 1200 (4'-0") TO 1800 (6'-0") | 2 - L102x102x6.4 | |
| | 1800 (6'-0") TO 2400 (8'-0") | 2 - L102x102x9.5 | |
| | 2400 (8'-0") TO 3000 (10'-0") | 2 - L152x102x7.9 | |
| 290 (12") | UP TO 1200 (4'-0") | 3 - L79x89x6.4 | |
| | 1200 (4'-0") TO 1800 (6'-0") | 3 - L89x89x6.4 | |
| | 1800 (6'-0") TO 2400 (8'-0") | 3 - L102x89x7.9 | |
| | 2400 (8'-0") TO 3000 (10'-0") | 3 - L127x89x7.9 | |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DRAWING TITLE:

TYPICAL DETAILS

ISSUE DATE: 2024-04-29

DRAWN BY: H.R. CHECKED BY: S.H.

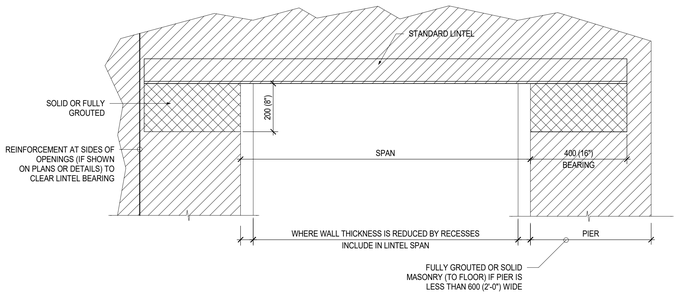
PROJECT NO.: 23394 SCALE: 1 : 20

DRAWING NO.: S-106

REVISION: 3

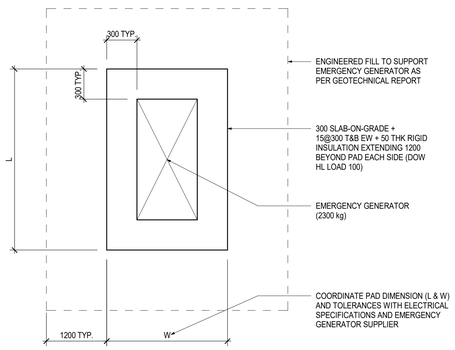
PLOT DATE: 2024-05-01 11:45:53

## TYPICAL STEEL LINTELS IN LOAD BEARING MASONRY WALLS — PD-001

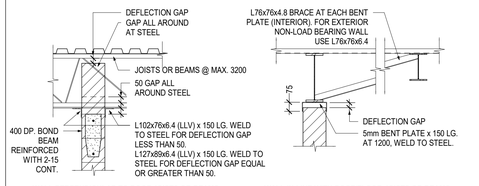



| WALL THICKNESS | LABEL | LINTEL SIZE | DETAIL |
|---|---|---|---|
| 240 | L1 | 590 DP FULLY GROUTED MASONRY BEAM REINFORCED WITH 1-15T & 2-15B +10@300 STIRRUP | PROVIDE MIN. 200 BEARING ON EITHER SIDE OF THE OPENING. BEARING TO BE SOLID OR FULLY GROUTED 200 WIDE AND 200 DEEP. |
| | L2 | W310x52 | 400x20x240 BEARING PLATE + 2-12 DIA ANCHOR RODS WITH 300 + 50 EMBED INTO SOLID OR FULLY GROUTED WALL. PROVIDE CONT. 240x12 PLATE TOP OF STEEL LINTEL. |
| | L3 | W460x89 | 400x20x240 BEARING PLATE + 2-12 DIA ANCHOR RODS WITH 300 + 50 EMBED INTO SOLID OR FULLY GROUTED WALL + 50x50x240 WD ROCKER BAR + 50 GROUT .PROVIDE CONT. 240x12 PLATE TOP OF STEEL LINTEL. |
| 290 | L4 | HSS 254x254x13 | 400x20x290 BEARING PLATE + 2-12 CAST-IN DIA ANCHOR RODS WITH 300 + 50 EMBED INTO SOLID OR FULLY GROUTED WALL + 50x60x290 WD ROCKER BAR + 50 GROUT. |

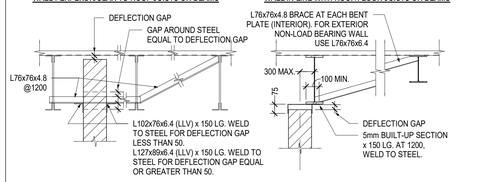
## TYPICAL ELECTRICAL GENERATOR OR TRANSFORMER PAD DETAIL — PD-002



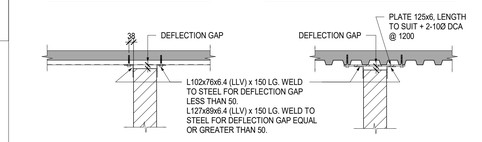

## LATERAL SUPPORT OF NON-BEARING INTERIOR MASONRY PARTITIONS — PD-M-001




**WALL PERPENDICULAR TO ROOF JOISTS OR BEAMS** — **WALL IN LINE WITH ROOF/FLOOR JOISTS OR BEAMS**




**WALL PARALLEL TO ROOF JOISTS OR BEAMS** — **WALL OFFSET FROM ROOF/FLOOR JOISTS OR BEAMS**




**WALL PERPENDICULAR TO FLOOR DECK FLUTES** — **WALL PARALLEL TO FLOOR DECK FLUTES**

1. DCA TO BE HILTI KB-3 WITH 64 EMBEDMENT.
2. PROVIDE 30mm DEFLECTION GAP TYPICAL U/N.
3. MINIMUM WALL THICKNESS IS 140 FOR INTERIOR WALLS AND 190 FOR EXTERIOR WALLS. WALL HEIGHT SHALL NOT EXCEED 36 TIMES WALL THICKNESS FOR INTERIOR WALLS AND 30 TIMES WALL THICKNESS FOR EXTERIOR WALLS. REFER TO DETAIL _____ FOR EXTERIOR NON-LOAD BEARING WALL REINFORCEMENT, TYPICAL U/N.
4. FOR EXTERIOR WALL LATERAL SUPPORT INCREASE 150 LG. ANGLE/BENT PLATE SHOWN IN THE DETAILS TO 250 LG. AND REPLACE 2-10Ø DCA WITH 2-13Ø DCA + INCREASE ALL BENT PLATES TO 6mm THICK.
5. FOR CONCEALED LATERAL SUPPORT REFER TO ARCH SPEC. AND DRAWINGS.

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DRAWING TITLE:

PROJECT DETAILS

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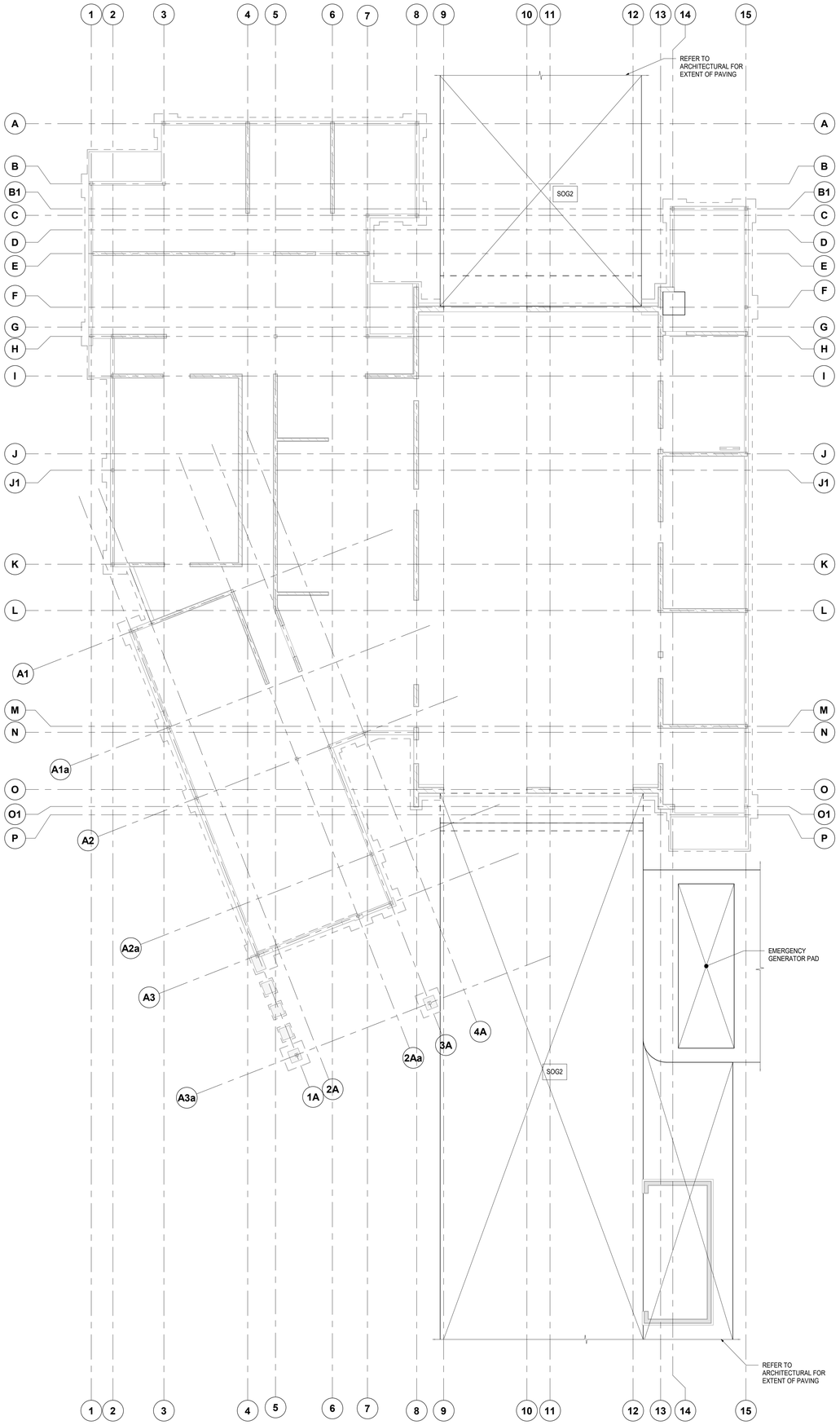
DRAWN BY: H.R. CHECKED BY: S.H.

PROJECT NO.: 23394 SCALE: 1 : 20

DRAWING NO.: S-107 REVISION: 3

PLOT DATE: 2024-05-01 11:45:53




1 / S-200 PARTIAL SITE REINFORCED PAVEMENT KEYPLAN

1 : 100

NOTES

1. SEE GENERAL REQUIREMENTS AND TYPICAL DETAILS ON DRAWINGS S100 SERIES AND READ IN CONJUNCTION WITH ALL FOOTING SCHEDULES.
2. ELEVATIONS AND GEOMETRY
   1. FLOOR DATUM ELEVATION IS 0 (GEODETIC EL. 170.0 m)
   2. TOP OF SLAB IS +-0 FROM DATUM ELEVATION EXCEPT AS CROSSED AND NOTED +/-X ON PLAN.
   3. "TOF" DENOTES TOP OF FOOTING ELEVATION. UNLESS NOTED SET TOF AT ELEVATION -1200.
3. DESIGN LOADING
   1. DESIGN LIVE LOAD IS 12 kPa.
   2. SUPERIMPOSED DEAD LOAD IS 1.5 kPa. THIS INCLUDES PARTITION ALLOWANCE OF 1 kPa.
4. FRAMING:
   1. SLAB ON GRADE:
      - A. SOG 1: 125 THICK WITH 152x152 MW 18.7/MW18.7 W.W.F. PLACED 50 BELOW TOP OF SLAB
      - B. SOG 2: 200 THICK 15@300 T&B EW
      - C. SOG 3: 200 THICK WITH 152x152 MW 18.7/MW18.7 W.W.F. PLACED 50 BELOW TOP OF SLAB
   2. COORDINATE WITH NEW (AND EXISTING SERVICES AND FOUNDATION PRIOR TO EXCAVATION FOR FOOTING. REFER TO ARCHITECTURAL, MECHANICAL, ELECTRICAL, AND SITE SERVICING DRAWINGS.

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DRAWING TITLE:

PARTIAL SITE REINFORCED PAVEMENT KEYPLAN

ISSUE DATE: 2024-04-29

DRAWN BY: H.R. CHECKED BY: S.H.

PROJECT NO.: 23394 SCALE: 1 : 100

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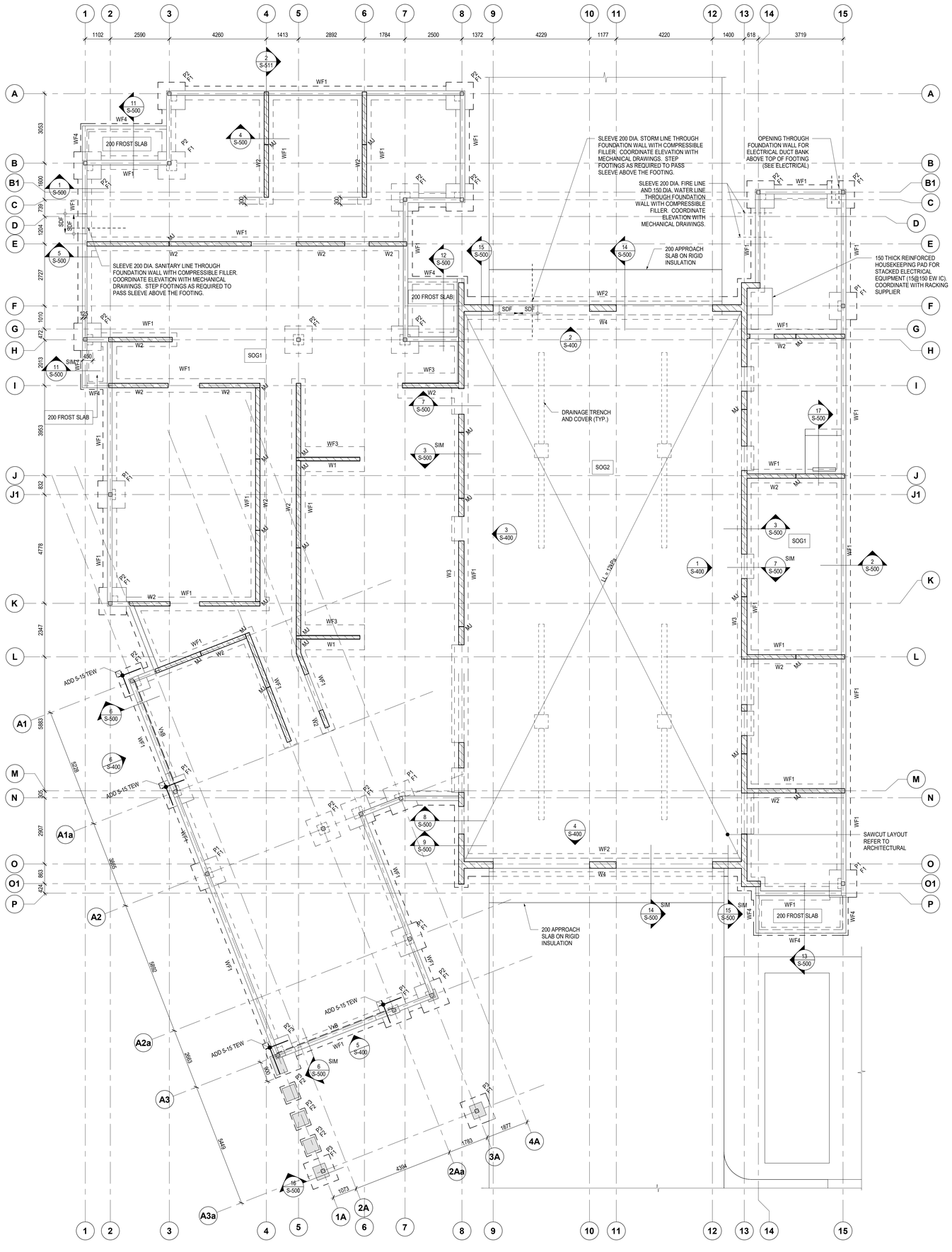



2 S-201 FOUNDATION & LEVEL 1 PLAN
1 : 75

NOTES

1. SEE GENERAL REQUIREMENTS AND TYPICAL DETAILS ON DRAWINGS S100 SERIES AND READ IN CONJUNCTION WITH ALL FOOTING SCHEDULES.
2. ELEVATIONS AND GEOMETRY
   1. FLOOR DATUM ELEVATION IS 0 (GEODETIC EL. 170.15 m)
   2. TOP OF SLAB IS +-0 FROM DATUM ELEVATION EXCEPT AS CROSSED AND NOTED +/-X ON PLAN.
   3. "TOF" DENOTES TOP OF FOOTING ELEVATION. UNLESS NOTED SET TOP AT ELEVATION -1200.
3. DESIGN LOADING, UNLESS OTHERWISE NOTED
   1. DESIGN LIVE LOAD IS 4.8 kPa.
   2. SUPERIMPOSED DEAD LOAD IS 1.5 kPa. THIS INCLUDES PARTITION ALLOWANCE OF 1 kPa.
4. FRAMING:
   1. SLAB ON GRADE:
      - A. SOG 1: 125 THICK WITH 152x152 MW 18.7/MW18.7 W.W.F. PLACED 50 BELOW TOP OF SLAB
      - B. SOG 2: 200 THICK 15@300 T&B EW
      - C. SOG 3: 200 THICK WITH 152x152 MW 18.7/MW18.7 W.W.F. PLACED 50 BELOW TOP OF SLAB
   2. COORDINATE WITH NEW AND EXISTING SERVICES AND FOUNDATION PRIOR TO EXCAVATION FOR FOOTING. REFER TO ARCHITECTURAL, MECHANICAL, ELECTRICAL AND SITE SERVICING DRAWINGS. SLEEVE ALL UNDERGROUND SERVICES PASSING THROUGH FOUNDATION WALLS WITH COMPRESSIBLE FILLER. NOTIFY CONSULTANT IF ANY SLEEVE IS REQUIRED TO BE LOWER THAN THE TOP OF FOOTING.

**SPREAD FOOTING SCHEDULE**

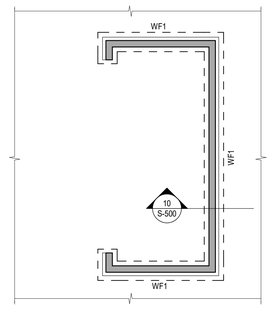
| MARK | SIZE (mm) | REINFORCING | REMARKS |
|---|---|---|---|
| F1 | 1200x1200x300 | 4-15 BEW HH | REFER TO PLAN FOR TOP REINFORCEMENT AT BRACES. |
| F2 | 800x700x300 | UNREINFORCED | |
| F3 | 1600x1200x300 | 5-15 BEW HH | REFER TO PLAN FOR TOP REINFORCEMENT AT BRACES. |

**STRIP FOOTING SCHEDULE**

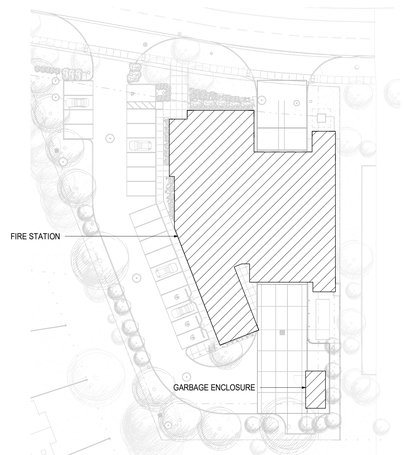
| MARK | SIZE (mm) | | REINFORCING | REMARKS |
|---|---|---|---|---|
| | WIDTH | DEPTH | | |
| WF1 | 600 | 300 | 15@400 BUL & CONT. 3-15 BLL | ADD 15@300 TEW WHERE FOOTING SUPPORTS A MASONRY SHEAR WALL. |
| WF2 | 1000 | 300 | 15@400 BUL & CONT. 4-15 BLL | ADD 15@300 TEW WHERE FOOTING SUPPORTS A MASONRY SHEAR WALL. |
| WF3 | 1100 | 300 | 15@300 BUL & CONT. 4-15 BLL | ADD 15@300 TEW WHERE FOOTING SUPPORTS A MASONRY SHEAR WALL. |
| WF4 | 350 | 300 | | |

**CONCRETE PIER SCHEDULE**

| MARK | SIZE (mm) | REINFORCING | | REMARKS |
|---|---|---|---|---|
| | | VERTICAL | TIES | |
| P1 | 350x450 | 8-15 | 10@300 | |
| P2 | 450x450 | 8-15 | 10@300 | |
| P3 | 570x610 | 10-15 | 10@300 | SET TOP OF PIER -150 (SEE ARCH.) |
| P4 | 515x875 | 10-15 | 10@300 | |




3 S-201 FOUNDATION PLAN - GARBAGE ENCLOSURE
1 : 75




1 S-201 KEY PLAN
1 : 500

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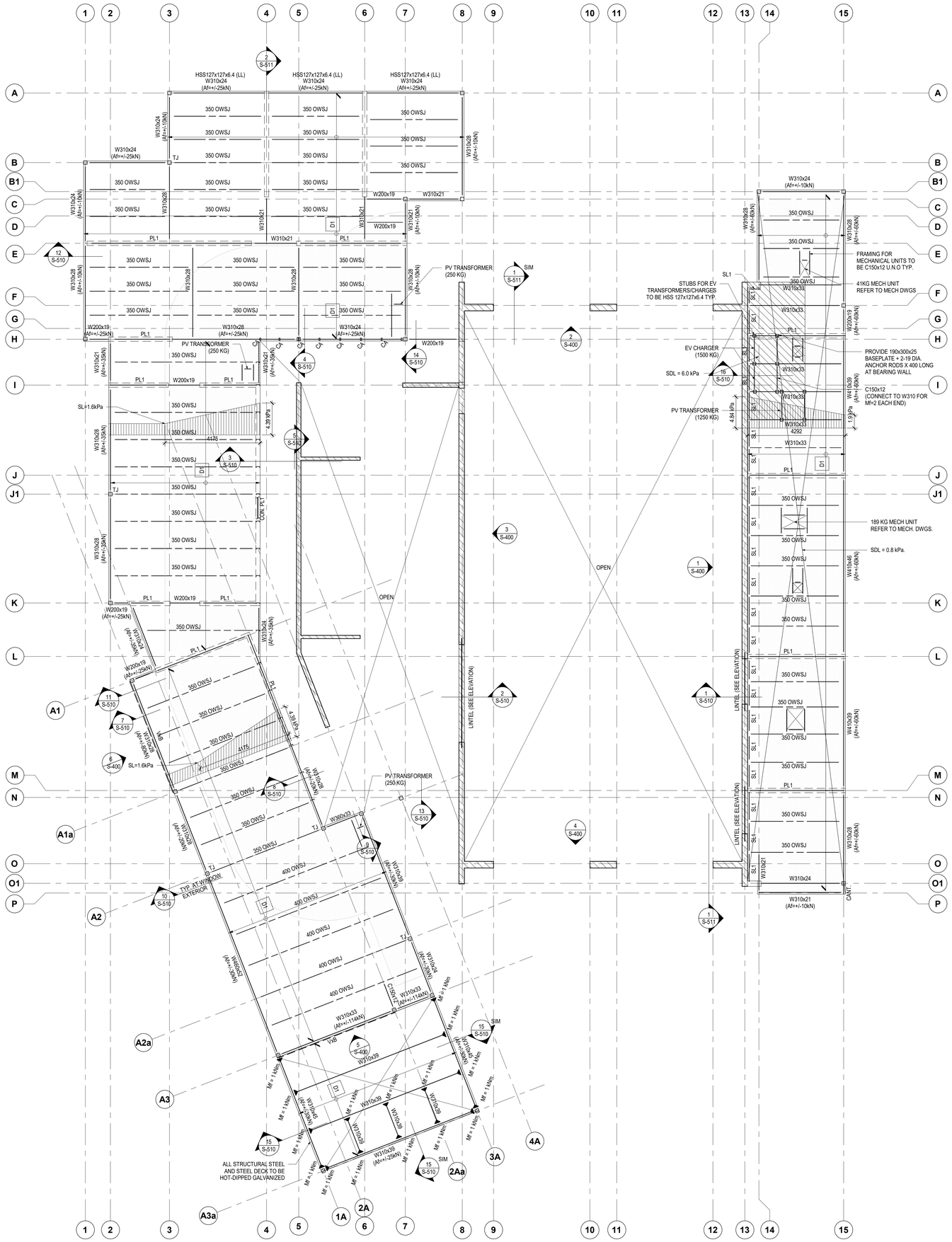
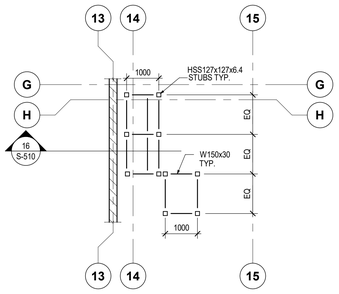



1 S-202 LOW ROOF PLAN
1 : 75

NOTES

1. SEE GENERAL REQUIREMENTS AND TYPICAL DETAILS ON DRAWING S100 SERIES.
2. ELEVATIONS AND GEOMETRY
   1. ROOF DATUM ELEVATION IS +3400.
   2. UNDERSIDE OF STEEL DECK IS +/-0 FROM DATUM AND NOTED ±X ON PLAN
   3. TOP OF STEEL BEAMS ARE AT UNDERSIDE OF STEEL DECK UNLESS BEAMS SUPPORT JOISTS, THEN SET TOP OF BEAMS AT UNDERSIDE OF JOIST SHOE
   4. TRIM ALL SIDES OF FRAMED OPENINGS AND ALL SIDES OF MECHANICAL OR ELECTRICAL EQUIPMENT WITH IN ROOF WITH C150x12 UNO. COORDINATE WITH OPENINGS BY OTHER TRADES.
   5. PROVIDE CONTINUOUS SHAPED BENT PLATES AS REQUIRED TO SUPPORT SLOPING DECK AT LOCATIONS SUCH AS CRANKS, RIDGES, VALLEY etc.
3. DESIGN LOADING
   1. SNOW: IS 1.6 kPa. SNOW PILING IS SHOWN ON PLAN
   2. DESIGN RAIN LOAD IS SHOWN ON PLAN IF HIGHER THAN SNOW LOAD.
   3. MINIMUM DESIGN WIND UPLIFT ON ROOF IS 2.1 kN/m².
   4. SUPERIMPOSED DEAD LOAD (SDL) IS 1.8 kPa. SDL INCLUDES 1 kPa PHOTOVOLTAIC WEIGHT ALLOWANCE. UNLESS NOTED OTHERWISE ON PLAN.
   5. FACTORED SHEAR FOR DIAPHRAGM ACTION IS 14.9 kN/m UNLESS OTHERWISE NOTED ON PLAN
   6. SEE PLANS INCLUDING MECHANICAL DRAWINGS FOR ADDITIONAL POINT LOADS.
   7. DESIGN OF THE SOLAR PV PANELS, RACKING AND ATTACHMENT TO THE STRUCTURE ARE TO BE ENGINEERED BY THE SUPPLIER. SUBMIT ALL LOADING TO THE CONSULTANT FOR REVIEW PRIOR TO STEEL FABRICATION.
4. FRAMING
   1. REFER TO DRAWING S-300 AND S-301 FOR SCHEDULES.
   2. DESIGN STEEL JOISTS, FOR DL=2.8 kN/m2 AND LL= SNOW OR RAIN UNLESS OTHERWISE NOTED
   3. DESIGN STEEL DECK, JOISTS AND BRIDGING FOR NET FACTORED UPLIFT OF 2.1 kN/m² DUE TO WIND
   4. DESIGN JOIST TOP AND BOTTOM CHORDS FOR 1.0 kN POINT LOAD APPLIED ANYWHERE ALONG THEIR LENGTH IN ADDITION TO ANY POINT LOADS INDICATED ON PLAN. SEE TD-5110 FOR LOADING FROM ROOF FALL ARREST ANCHORS.
   5. WHEN A JOIST IS CONNECTED AT AN INTERSECTION WITH A COLUMN, JOIST TOP CHORDS ARE ASSUMED TO BRACE COLUMNS. CONNECT FOR TOP CHORD AXIAL FORCE OF 29KN UNLESS OTHERWISE SPECIFIED.
   6. COORDINATE WITH MECHANICAL DRAWINGS FOR EQUIPMENT WEIGHT AND LOCATIONS FOR JOIST DESIGN.
   7. UNLESS OTHERWISE NOTED, PROVIDE ALL ROOF BEAMS AND JOISTS WITH 2-20Ø x 600 LONG ANCHOR RODS AT EACH WALL BEARING
   8. 'SL1' AND 'PL1' REFERS TO SHELF ANGLE AND CONTINUOUS TOP WALL PLATE, REFER TO S-301 FOR SHELF ANGLE AND PLATE SCHEDULE.
   9. COLLECTOR AXIAL FORCES SHOWN ON PLAN CORRESPOND TO RdRo = 2 x 1.5 AND SHALL BE AMPLIFIED AS PER S16.
   10. 11. MECHANICAL DUCTS PASSING THROUGH LOAD BEARING MASONRY WALLS NOT EXCEEDING 400 WIDE, SHALL BE SET AT THE UNDERSIDE OF THE CONTINUOUS BOND BEAM. IF TOP OF DUCT OPENING IS GREATER THAN 200 BELOW BOND BEAM, PROVIDE MASONRY REINFORCED LINTEL ABOVE OPENING




2 S-202 PARTIAL ROOF PLAN
1 : 75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DRAWING TITLE:
LOW ROOF PLAN

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PROJECT NO.: 23394 SCALE: 1 : 75
DRAWING NO.: S-202 REVISION: 3


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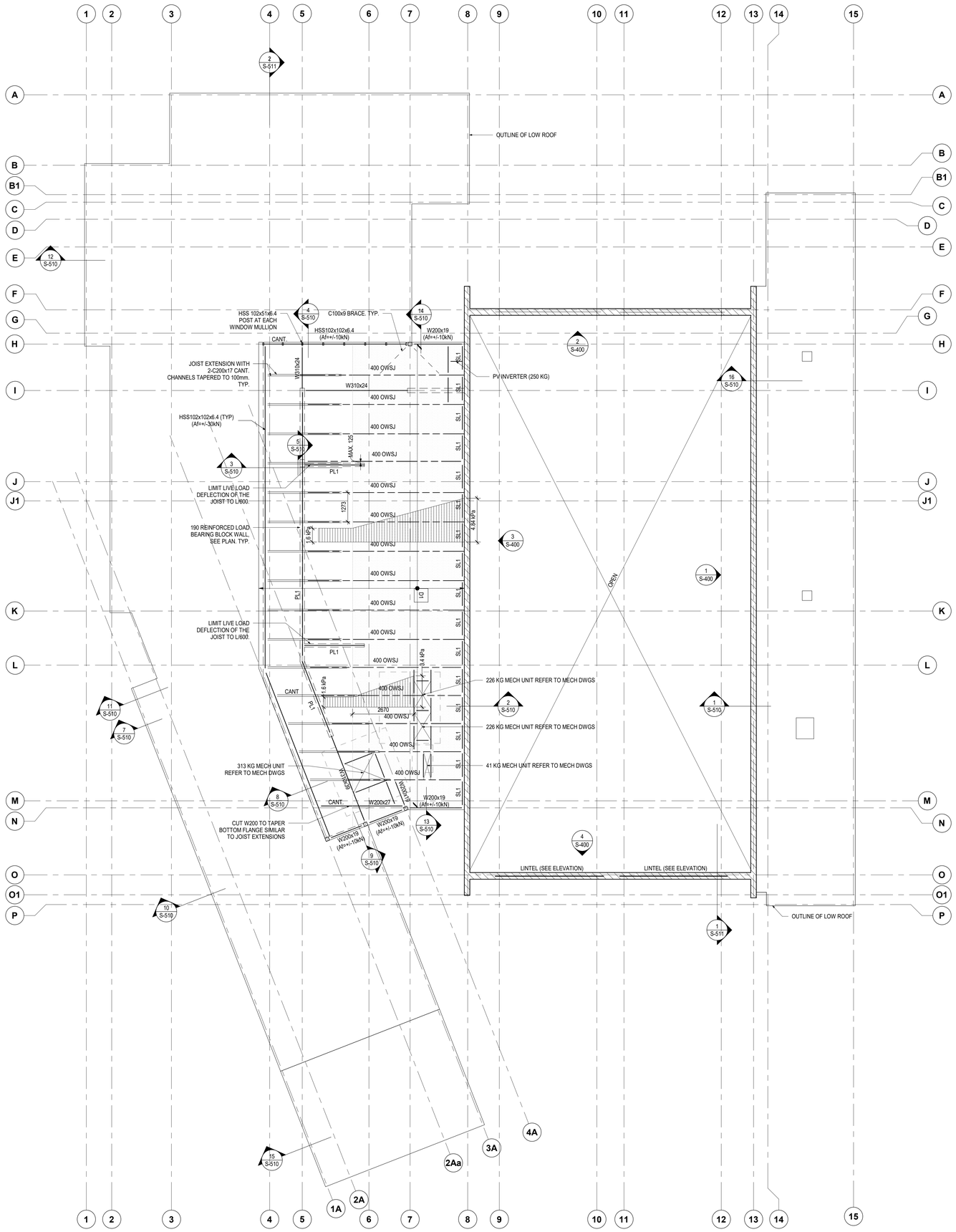


1 / S-203 CLERESTORY ROOF PLAN

1 : 75

NOTES

1. SEE GENERAL REQUIREMENTS AND TYPICAL DETAILS ON DRAWING S100 SERIES.
2. ELEVATIONS AND GEOMETRY
   1. ROOF DATUM ELEVATION IS +4600.
   2. UNDERSIDE OF STEEL DECK IS +/-0 FROM DATUM AND NOTED ±X ON PLAN
   3. TOP OF STEEL BEAMS ARE AT UNDERSIDE OF STEEL DECK UNLESS BEAMS SUPPORT JOISTS, THEN SET TOP OF BEAMS AT UNDERSIDE OF JOIST SHOE
   4. TRIM ALL SIDES OF FRAMED OPENINGS AND ALL SIDES OF MECHANICAL OR ELECTRICAL EQUIPMENT WITH IN ROOF WITH C150x12 UNO. COORDINATE WITH OPENINGS BY OTHER TRADES.
   5. PROVIDE CONTINUOUS SHAPED BENT PLATES AS REQUIRED TO SUPPORT SLOPING DECK AT LOCATIONS SUCH AS CRANKS, RIDGES, VALLEY etc.
3. DESIGN LOADING
   1. SNOW: IS 1.6 kPa. SNOW PILING IS SHOWN ON PLAN
   2. DESIGN RAIN LOAD IS SHOWN ON PLAN IF HIGHER THAN SNOW LOAD.
   3. MINIMUM DESIGN WIND UPLIFT ON ROOF IS 2.1 kN/m².
   4. SUPERIMPOSED DEAD LOAD (SDL) IS 1.8 kPa. SDL INCLUDES 1 kPa PHOTOVOLTAIC WEIGHT ALLOWANCE. UNLESS NOTED OTHERWISE ON PLAN.
   5. FACTORED SHEAR FOR DIAPHRAGM ACTION IS 14.9 kN/m UNLESS OTHERWISE NOTED ON PLAN
   6. SEE PLANS INCLUDING MECHANICAL DRAWINGS FOR ADDITIONAL POINT LOADS.
   7. DESIGN OF THE SOLAR PV PANELS, RACKING AND ATTACHMENT TO THE STRUCTURE ARE TO BE ENGINEERED BY THE SUPPLIER. SUBMIT ALL LOADING TO THE CONSULTANT FOR REVIEW PRIOR TO STEEL FABRICATION.
4. FRAMING
   1. REFER TO DRAWING S-300 AND S-301 FOR SCHEDULES.
   2. DESIGN STEEL JOISTS, FOR DL=2.8 kN/m2 AND LL= SNOW OR RAIN UNLESS OTHERWISE NOTED
   3. DESIGN STEEL DECK, JOISTS AND BRIDGING FOR NET FACTORED UPLIFT OF 2.1 kN/m² DUE TO WIND
   4. DESIGN JOIST TOP AND BOTTOM CHORDS FOR 1.0 kN POINT LOAD APPLIED ANYWHERE ALONG THEIR LENGTH IN ADDITION TO ANY POINT LOADS INDICATED ON PLAN. SEE TD-5110 FOR LOADING FROM ROOF FALL ARREST ANCHORS.
   5. WHEN A JOIST IS CONNECTED AT AN INTERSECTION WITH A COLUMN, JOIST TOP CHORDS ARE ASSUMED TO BRACE COLUMNS. CONNECT FOR TOP CHORD AXIAL FORCE OF 29KN UNLESS OTHERWISE SPECIFIED.
   6. COORDINATE WITH MECHANICAL DRAWINGS FOR EQUIPMENT WEIGHT AND LOCATIONS FOR JOIST DESIGN.
   7. UNLESS OTHERWISE NOTED, PROVIDE ALL ROOF BEAMS AND JOISTS WITH 2-20Ø x 600 LONG ANCHOR RODS AT EACH WALL BEARING.
   8. 'SL1' AND 'PL1' REFERS TO SHELF ANGLE AND CONTINUOUS TOP WALL PLATE, REFER TO S-301 FOR SHELF ANGLE AND PLATE SCHEDULE.
   9. REFER TO S-202 FOR ROOF ANCHOR REQUIREMENTS.
   10. COLLECTOR FORCES SHOWN ON PLAN CORRESPOND TO RdRo = 2 x 1.5
   11. MECHANICAL DUCTS PASSING THROUGH LOAD BEARING MASONRY WALLS NOT EXCEEDING 400 WIDE, SHALL BE SET AT THE UNDERSIDE OF THE CONTINUOUS BOND BEAM. IF TOP OF DUCT OPENING IS GREATER THAN 200 BELOW BOND BEAM, PROVIDE MASONRY REINFORCED LINTEL ABOVE OPENING

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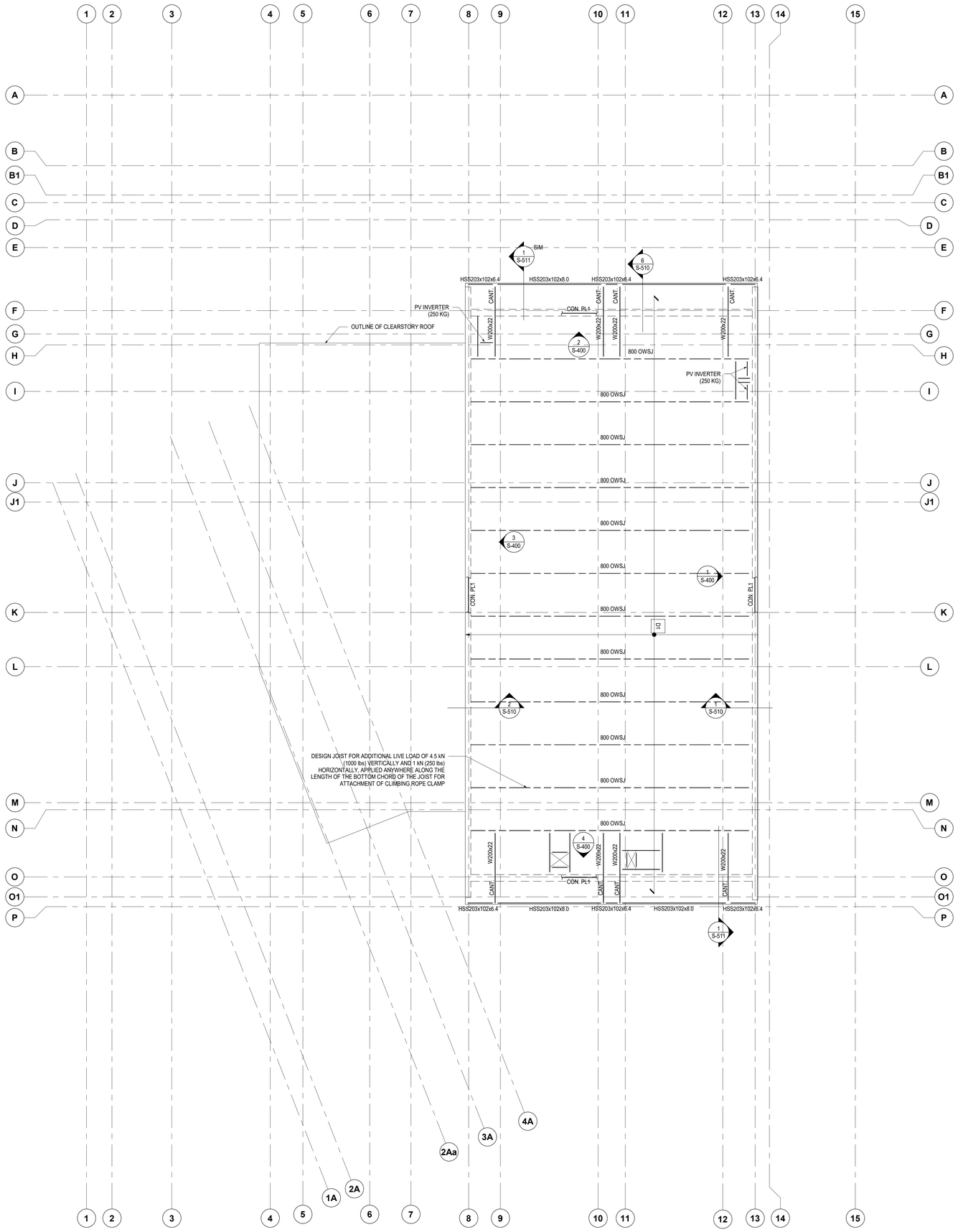
| 2 | ISSUED FOR BUILDING PERMIT | 2024-01-22 |
| 1 | ISSUED FOR CLASS A ESTIMATE | 2024-01-22 |

DRAWING TITLE:

CLERESTORY ROOF PLAN

| | |
|---|---|
| ISSUE DATE: | 2024-04-29 |
| DRAWN BY: H.R. | CHECKED BY: S.H. |
| PROJECT NO.: 23394 | SCALE: 1 : 75 |
| DRAWING NO.: | REVISION: |

S-203 | 3




2 S-204 APPARATUS BAY DECK

1 : 75

NOTES

***SET ROOF DATUM ELEVATION AT +7100

1. SEE GENERAL REQUIREMENTS AND TYPICAL DETAILS ON DRAWING S100 SERIES.
2. ELEVATIONS AND GEOMETRY
   1. ROOF DATUM ELEVATION IS +7100.
   2. UNDERSIDE OF STEEL DECK IS +/-0 FROM DATUM AND NOTED ±X ON PLAN
   3. TOP OF STEEL BEAMS ARE AT UNDERSIDE OF STEEL DECK UNLESS BEAMS SUPPORT JOISTS, THEN SET TOP OF BEAMS AT UNDERSIDE OF JOIST SHOE
   4. TRIM ALL SIDES OF FRAMED OPENINGS AND ALL SIDES OF MECHANICAL OR ELECTRICAL EQUIPMENT WITH IN ROOF WITH C150x12 UNO. COORDINATE WITH OPENINGS BY OTHER TRADES.
   5. PROVIDE CONTINUOUS SHAPED BENT PLATES AS REQUIRED TO SUPPORT SLOPING DECK AT LOCATIONS SUCH AS CRANKS, RIDGES, VALLEY etc.
3. DESIGN LOADING
   1. SNOW: IS 1.6 kPa. SNOW PILING IS SHOWN ON PLAN
   2. DESIGN RAIN LOAD IS SHOWN ON PLAN IF HIGHER THAN SNOW LOAD.
   3. MINIMUM DESIGN WIND UPLIFT ON ROOF IS 2.1 kN/m².
   4. SUPERIMPOSED DEAD LOAD (SDL) IS 1.8 kPa. SDL INCLUDES 1 kPa PHOTOVOLTAIC WEIGHT ALLOWANCE. UNLESS NOTED OTHERWISE ON PLAN.
   5. FACTORED SHEAR FOR DIAPHRAGM ACTION IS 14.9 kN/m UNLESS OTHERWISE NOTED ON PLAN
   6. SEE PLANS INCLUDING MECHANICAL DRAWINGS FOR ADDITIONAL POINT LOADS.
   7. DESIGN OF THE SOLAR PV PANELS, RACKING AND ATTACHMENT TO THE STRUCTURE ARE TO BE ENGINEERED BY THE SUPPLIER. SUBMIT ALL LOADING TO THE CONSULTANT FOR REVIEW PRIOR TO STEEL FABRICATION.
4. FRAMING
   1. REFER TO DRAWING S-300 AND S-301 FOR SCHEDULES.
   2. DESIGN STEEL JOISTS, FOR DL=2.8 kN/m2AND LL= SNOW OR RAIN UNLESS OTHERWISE NOTED
   3. DESIGN STEEL DECK, JOISTS AND BRIDGING FOR NET FACTORED UPLIFT OF 2.1 kN/m² DUE TO WIND
   4. DESIGN JOIST TOP AND BOTTOM CHORDS FOR 1.0 kN POINT LOAD APPLIED ANYWHERE ALONG THEIR LENGTH IN ADDITION TO ANY POINT LOADS INDICATED ON PLAN. SEE TD-5110 FOR LOADING FROM ROOF / FALL ARREST ANCHORS.
   5. WHEN A JOIST IS CONNECTED AT AN INTERSECTION WITH A COLUMN, JOIST TOP CHORDS ARE ASSUMED TO BRACE COLUMNS. CONNECT FOR TOP CHORD AXIAL FORCE OF 25KN UNLESS OTHERWISE SPECIFIED.
   6. COORDINATE WITH MECHANICAL DRAWINGS FOR EQUIPMENT WEIGHT AND LOCATIONS FOR JOIST DESIGN
   7. UNLESS OTHERWISE NOTED, PROVIDE ALL ROOF BEAMS AND JOISTS WITH 2-20Ø x 600 LONG ANCHOR RODS AT EACH WALL BEARING.
   8. "SLT AND "PL1" REFERS TO SHELF ANGLE AND CONTINUOUS TOP WALL PLATE, REFER TO S-301 FOR SHELF ANGLE AND PLATE SCHEDULE.
   9. REFER TO S-202 FOR ROOF ANCHOR REQUIREMENTS.
   10. COLLECTOR FORCES SHOWN ON PLAN CORRESPOND TO RdRo = 2 x 1.5
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DRAWING TITLE:

APPARATUS BAY ROOF PLAN

ISSUE DATE: 2024-04-29

DRAWN BY: H.R. CHECKED BY: S.H.

PROJECT NO.: 23394 SCALE: 1 : 75

DRAWING NO.: S-204

REVISION: 3


PLOT DATE: 2024-05-01 11:47:25

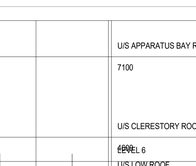
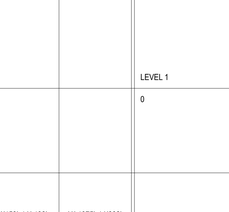
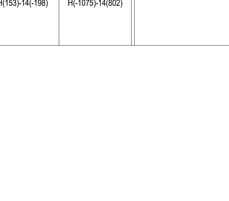
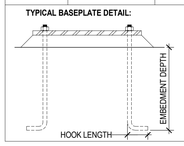
## COLUMN SCHEDULE

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| U/S APPARATUS BAY ROOF | | | | | | | | | | | | | | | | | | | | | | | | | | U/S APPARATUS BAY ROOF |
| 7100<br>U/S CLERESTORY ROOF | | | | | | | | | | | | | | | | | | | | | | | | | | 7100<br>U/S CLERESTORY ROOF |
| 4600<br>LEVEL 6 | | | | | | HSS152x152x6.4 | HSS152x152x6.4 | | | | | | | | | | | | | | | HSS152x152x6.4 | | | | 4600<br>LEVEL 6 |
| U/S LOW ROOF<br>3850 | | | | | | | | | | | | | | | | | | | | | | | | | | U/S LOW ROOF<br>3850 |
| 3400<br>LEVEL 1 | HSS152x152x6.4 U/S B.P.L. -200 TYP. U.N.O. | HSS152x152x6.4 | HSS152x152x6.4 | HSS152x152x6.4 | HSS152x152x6.4 | | | HSS152x152x6.4 | HSS152x152x6.4 | HSS152x152x6.4 | HSS152x152x6.4 | HSS152x152x6.4 U/S B.P.L. -100 | HSS152x152x6.4 U/S B.P.L. -100 | HSS152x152x6.4 | HSS152x152x6.4 | HSS152x152x6.4 | HSS152x152x6.4 | HSS152x152x6.4 | HSS152x152x6.4 | HSS152x152x6.4 | HSS152x152x6.4 | HSS152x152x6.4 | HSS152x152x6.4 | | | 3400<br>LEVEL 1 |
| 0 | BP3 | BP3 | BP3 | BP2 | BP2 | BP1 | BP3 | BP2 | BP3 | BP2 | BP3 | BP1 | BP1 | BP3 | BP3 | BP3 | BP3 | BP3 | BP3 | BP2 | BP3 | BP1 | BP3 | | | 0 |
| Column Locations | A-3 | A-8 | A1-1A | A1a-1A | A2-1A | A2-2Aa | A2-3A | A2a-3A | A3-1A | A3-2Aa | A3-3A | A3a-1A | A3a-3A | B-1 | B-3 | B1-14 | B1-15 | C-7 | C-8 | F-15 | H-1 | H-5 | H-7 | H(153)-14(802) | H(153)-14(-198) | H(-1075)-14(802) | |

## COLUMN SCHEDULE

| | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| U/S APPARATUS BAY ROOF | | | | | | | | | | | | U/S APPARATUS BAY ROOF |
| 7100<br>U/S CLERESTORY ROOF | | | | | | | | | | | | 7100<br>U/S CLERESTORY ROOF |
| 4600<br>LEVEL 6 | | | | | | | | | | | | 4600<br>LEVEL 6 |
| U/S LOW ROOF<br>3850 | | | | | | | | | | | | U/S LOW ROOF<br>3850 |
| 3400<br>LEVEL 1 | | | | | | | | HSS152x152x6.4 | HSS152x152x6.4 | HSS152x152x6.4 | HSS152x152x6.4 | 3400<br>LEVEL 1 |
| 0 | | | | | | | | BP2 | BP3 | BP2 | BP2 | 0 |
| Column Locations | H(-1075)-14(-198) | H(-2303)-14(802) | H(-2303)-14(1002) | H(-2303)-14(-173) | H(-2303)-15(-1717) | J(2435)-14(1002) | J(2435)-15(-1717) | J1-2 | K-2 | N-4A | O1-15 | |

## BASEPLATE SCHEDULE

| MARK | SIZE | ANCHORS | DETAILS |
|---|---|---|---|
| BP1 | 300x20x300 | 4-19Ø ANCHOR RODS x 350 LG. EMBED + 75 HOOK REFER TO S-201 FOR PIER SIZES |   |
| BP2 | 300x20x300 | 4-19Ø ANCHOR RODS x 350 LG. EMBED + 75 HOOK REFER TO S-201 FOR PIER SIZES |   |
| BP3 | 300x20x300 | 3-19Ø ANCHOR RODS x 350 LG. EMBED + 75 HOOK REFER TO S-201 FOR PIER SIZES |   |
| TYPICAL BASEPLATE DETAIL: | | |   |

STEEL COLUMN SCHEDULE NOTES:

1. SEE GENERAL REQUIREMENTS AND TYPICAL DETAILS ON DRAWINGS S100 SERIES.
2. ALL LOADS ARE ULTIMATE LIMIT STATE (ULS) UNLESS NOTED OTHERWISE.
3. PROVIDE 4-19Ø ANCHOR RODS (400 EMBEDMENT PLUS 75 HOOK) FOR EACH BASE PLATE, UNLESS OTHERWISE NOTED IN SCHEDULE.
4. COLUMN BASES TO BE GROUTED WITH 50mm OF GROUT.
5. W-COLUMNS: BASE PLATE DIMENSION GIVEN FIRST TO BE PARALLEL TO COLUMN WEB.
6. HSS COLUMNS: BASE PLATE DIMENSION GIVEN FIRST TO BE IN NORTH-SOUTH DIRECTION.
7. PROVIDE LEVELLING SCREWS FOR BASE PLATES.
8. WELD BASE PLATES TO COLUMNS TO DEVELOP ANCHOR RODS.
9. PROVIDE CAP PLATES ON ALL HSS COLUMNS. PROVIDE CAP PLATES ON ALL OTHER COLUMNS WHERE REQUIRED FOR SUPPORT OF JOISTS, DECK, WINDOW WASHING ANCHORS ETC.
10. PROVIDE CONNECTIONS FOR TIE JOISTS TO COLUMNS.
11. WHERE MOMENTS OR SHEAR FORCES ARE PRESENTED SINGULARLY: THE MOMENT/SHEAR FORCE IS IN THE STRONG DIRECTION. IF THE COLUMN IS SQUARE, THE MOMENT/SHEAR FORCE IS IN BOTH DIRECTIONS UNLESS NOTED OTHERWISE.
12. WHERE MOMENTS OR SHEARS ARE PRESENTED ABOUT TWO AXES: THE FIRST MOMENT/SHEAR FORCE IS IN THE STRONG DIRECTION AND THE SECOND IN THE WEAK DIRECTION. IF THE COLUMN IS SQUARE, THE FIRST MOMENT/SHEAR FORCE IS PARALLEL TO THE PROJECT NORTH NORTH-SOUTH DIRECTION.

STEEL COLUMN SCHEDULE LEGEND:

COLUMN TAG(S):

| | |
|---|---|
| W360x60 | COLUMN SECTION |
| COMMENTS | COLUMN-SPECIFIC COMMENTS (IF APPLICABLE) |

BASE TAG:

| | |
|---|---|
| BP1 | BASE PLATE (REFER TO BASE PLATE SCHEDULE) |
| SLS P=1000 (600) | SLS (UNFACTORED) AXIAL REACTION (UPLIFT IN BRACKETS, IF APPLICABLE) |
| ULS Pf=1800 (800) | ULS (FACTORED) AXIAL REACTION (UPLIFT IN BRACKETS, IF APPLICABLE) |
| Vf=250 / 150 | ULS (FACTORED) SHEAR REACTION(S), IF APPLICABLE (REFER TO NOTES) |
| Mf=150 / 120 | ULS (FACTORED) BENDING MOMENT REACTION(S), IF APPLICABLE (REFER TO NOTES) |
| Tmf=80 | ULS (FACTORED) TORSIONAL MOMENT REACTION, IF APPLICABLE |

STEEL COLUMN SYMBOL LEGEND

BASE CONNECTIONS:

- BASE PLATE
- STEEL BEAM BEARING
- CONCRETE BEAM BEARING

TOP CONNECTIONS:

- COLUMN SPLICE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DRAWING TITLE:

COLUMN SCHEDULE

ISSUE DATE: 2024-04-29

DRAWN BY: H.R. CHECKED BY: S.H.

PROJECT NO.: 23394 SCALE: As indicated

DRAWING NO.: S-300 REVISION: 3

PLOT DATE: 2024-05-01 11:47:04

## MASONRY WALL REINFORCEMENT SCHEDULE UNLESS NOTED OTHERWISE

| TYPE | THICKNESS | REINFORCEMENT | | COMMENTS |
|---|---|---|---|---|
| | | VERTICAL | HORIZONTAL | |
| W1 | 140 | 20@800 | GALV. LADDER TYPE 2-4.8 DIA. WIRES @200 O/C | GROUT REINFORCED CORES |
| W2 | 190 | 15@800 | GALV. LADDER TYPE 2-4.8 DIA. WIRES @200 O/C | GROUT REINFORCED CORES |
| W3 | 240 | 15@600 | GALV. LADDER TYPE 2-4.8 DIA. WIRES @200 O/C | GROUT REINFORCED CORES |
| W4 | 290 | 15@400 | GALV. LADDER TYPE 2-4.8 DIA. WIRES @ 200 O/C | GROUT REINFORCED CORES |

NOTES:

1. TRIM OPENINGS IN MASONRY WALLS WITH 1-15M VERTICAL HEIGHT EACH SIDE OPENING
2. ADD 1-15V AT ENDS OF WALLS

MASONRY WALL NOTES

1. FOR GENERAL REQUIREMENTS AND TYPICAL DETAILS SEE DRAWINGS S100 SERIES.
2. FOR LOCATIONS OF SCHEDULED WALLS SEE DRAWING S-201.
3. MASONRY VENEERS ARE NOT NOTED IN THE SCHEDULE. SEE ARCHITECTURAL DRAWINGS.

## SHELF ANGLE AND PLATE SCHEDULE

| MARK | DESCRIPTION | ANCHORS | REMARKS |
|---|---|---|---|
| SL1 | CONT. L76x76x6.4 | 16Ø HILTI KWIK BOLT TZ @ 200 (70 EMBEDMENT) | MAINTAIN MIN. 100 EDGE DISTANCE TO THE TOP AND EDGE OF THE WALL |
| PL1 | CONT. PL150x12 | 16Ø @ 500 W/ 600 EMBEDMENT + 50 HOOK INTO FULLY GROUTED CORE | |

## BEARING PLATE SCHEDULE

| MARK | SIZE | ANCHORS | REMARKS |
|---|---|---|---|
| BPL1 | 240x16x240 | 2-20Ø ANCHOR ROD x 600 LG + 50 HOOK | AT ALL JOIST SHOES WHERE BEARING ON 240 WALL. |
| BPL2 | 190x16x240 | 2-20Ø ANCHOR ROD x 600 LG + 50 HOOK | AT ALL JOIST SHOES WHERE BEARING ON 190 WALL. |
| BPL3 | 190x20x300 | 2-20Ø ANCHOR ROD x 600 LG + 50 HOOK | AT ALL BEAMS WHERE BEARING ON 190 WALL. |

## STEEL DECK SCHEDULE

| MARK | DESCRIPTION | MIN. C.N.T. | DESIGN LOADS | | | | | REMARKS |
|---|---|---|---|---|---|---|---|---|
| | | | DL (kPa) | LL (kPa) | SNOW OR RAIN (kPa) | WIND UPLIFT | SEISMIC DIAPHRAGM (kN/m) | |
| D1 | 38mm DEEP STEEL DECK. | 0.91 | 2.5 | N/A | 1.6 | 2.1 kPa | 8.2 kN/m | THIS FORCE CORRESPONDS TO RdRo = 2 x 1.5 |


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DRAWING TITLE:

OTHER SCHEDULES

ISSUE DATE: 2024-04-29

DRAWN BY: H.R. CHECKED BY: S.H.

PROJECT NO.: 23394 SCALE: 1 : 10

DRAWING NO.: S-301

REVISION: 3

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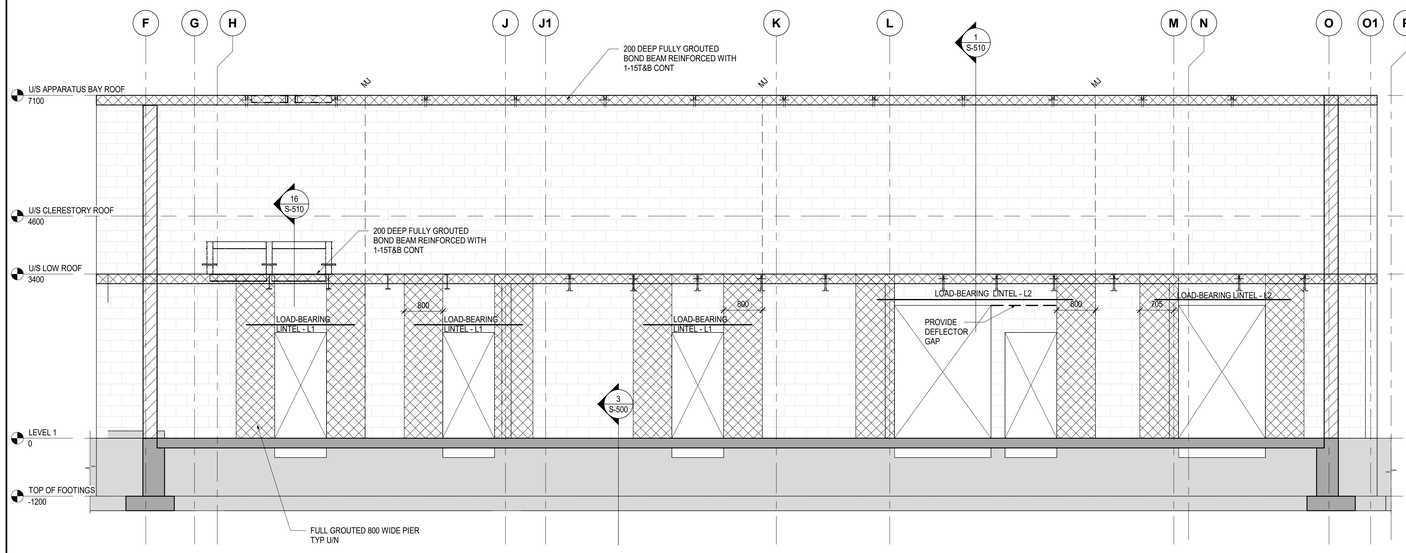
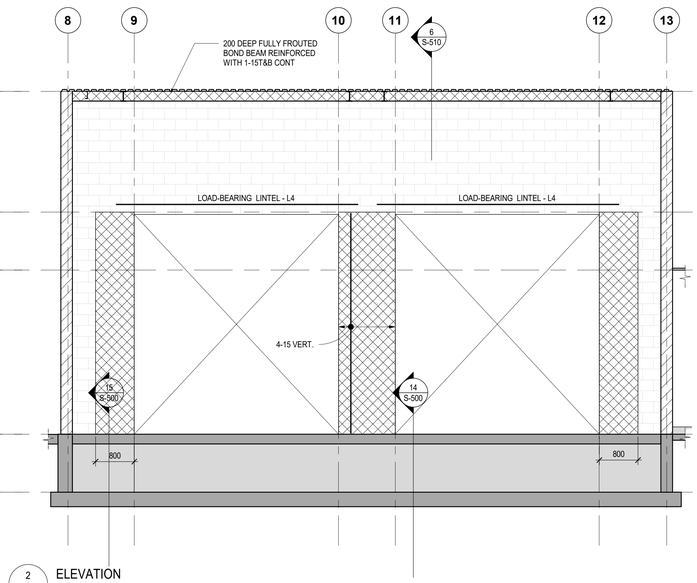
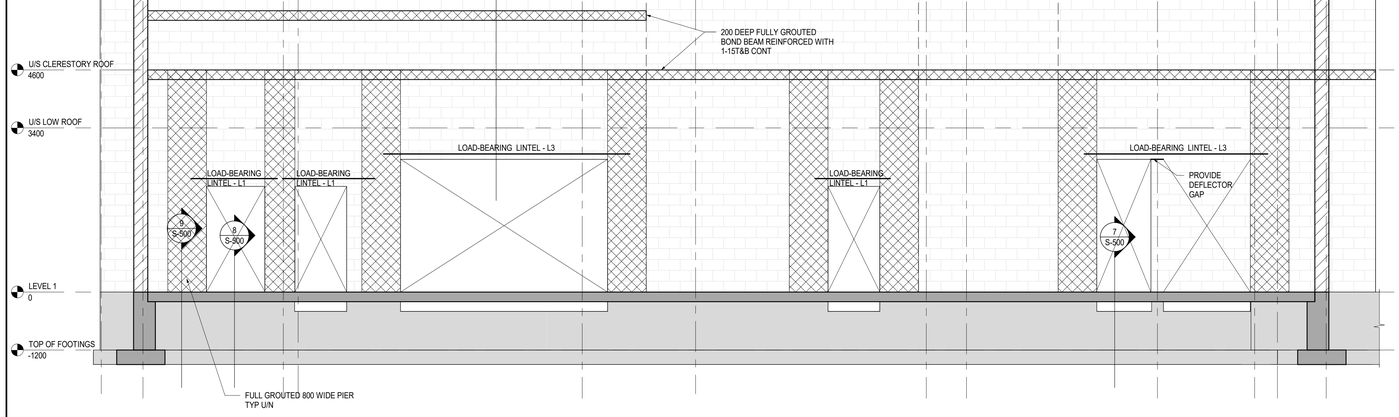


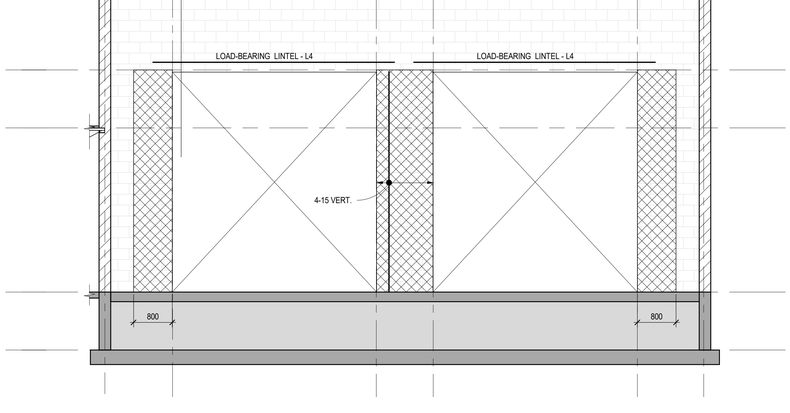

1 S-400 ELEVATION
1 : 50



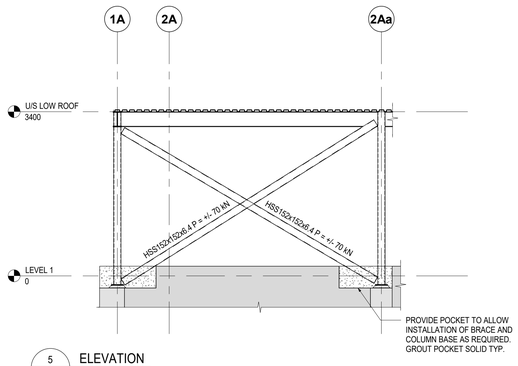

2 S-400 ELEVATION
1 : 50




3 S-400 ELEVATION
1 : 50

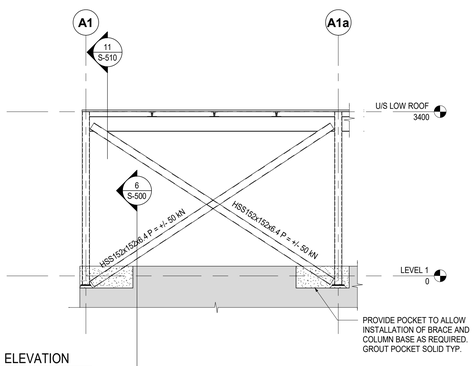



4 S-400 ELEVATION
1 : 50




5 S-400 ELEVATION
1 : 50

NOTE:
1. BRACE AXIAL FORCE CORRESPONDS TO RdRo = 2 x 1.5




6 S-400 ELEVATION
1 : 50

NOTE:
1. BRACE AXIAL FORCE CORRESPONDS TO RdRo = 2 x 1.5

MISSISSAUGA

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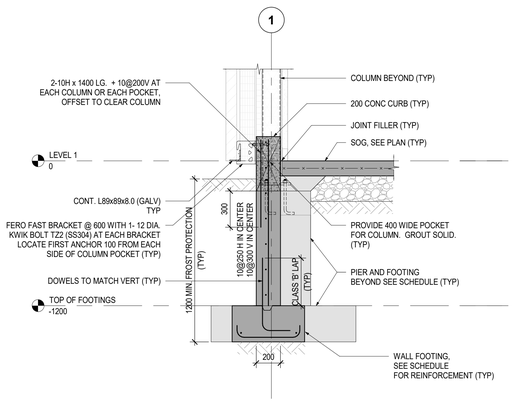
|---|---|---|
| 3 | ISSUED FOR TENDER | 2024-04-29 |
| 2 | ISSUED FOR BUILDING PERMIT | 2024-01-22 |
| 1 | ISSUED FOR CLASS A ESTIMATE | 2024-01-22 |

DRAWING TITLE:

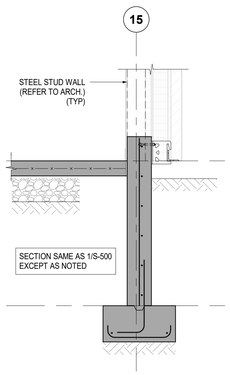
ELEVATIONS

ISSUE DATE: 2024-04-29
DRAWN BY: H.R. CHECKED BY: S.H.
PROJECT NO.: 23394 SCALE: 1 : 50
DRAWING NO.: S-400 REVISION: 3

PLOT DATE: 2024-05-01 11:47:08




1 SECTION S-500 1 : 20

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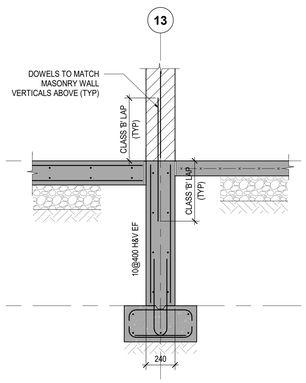


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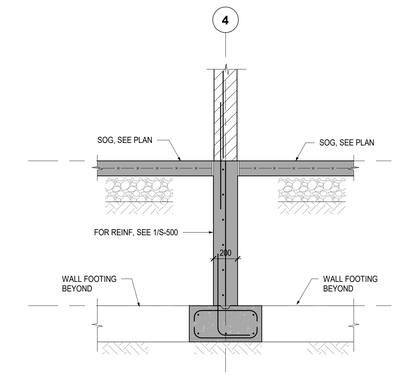
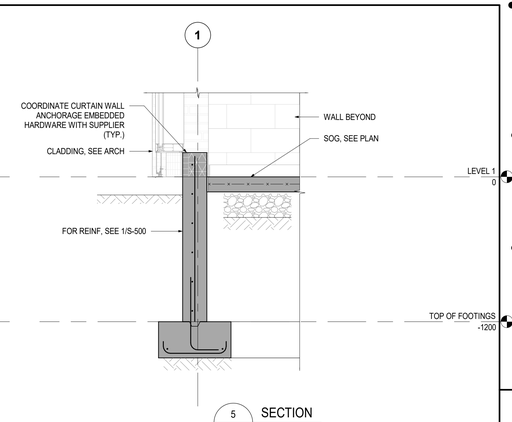



4 SECTION S-500 1 : 20

TYPICAL AT ALL INTERIOR LOAD-BEARING MASONRY WALLS

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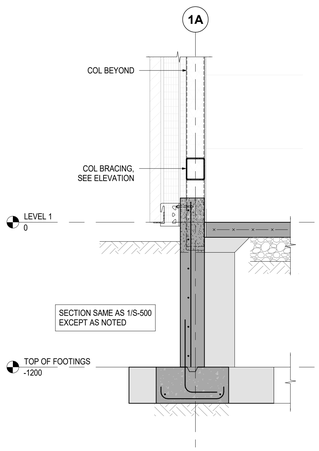


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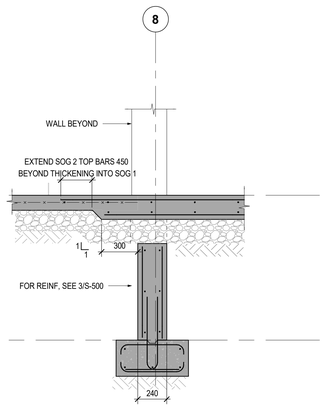


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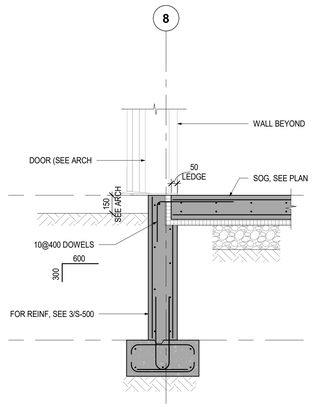


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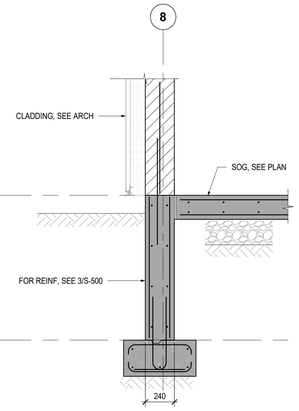


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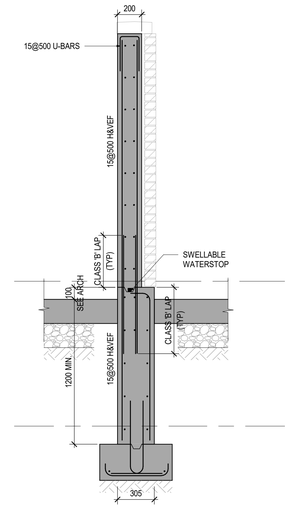


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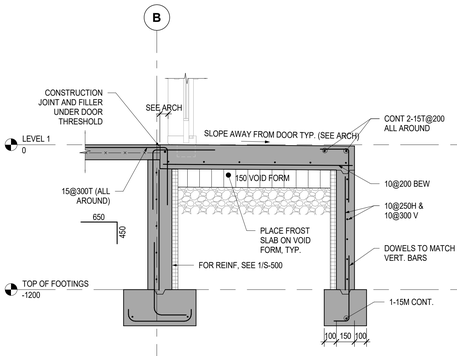


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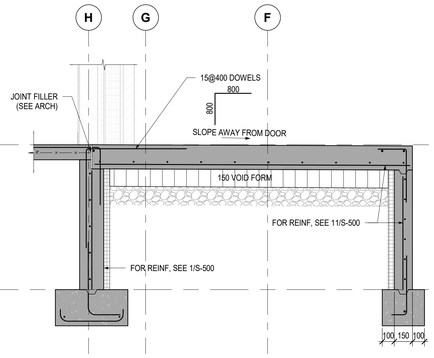


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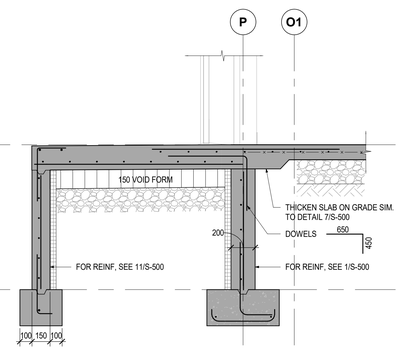


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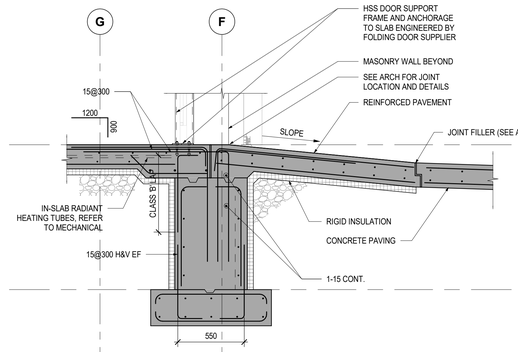


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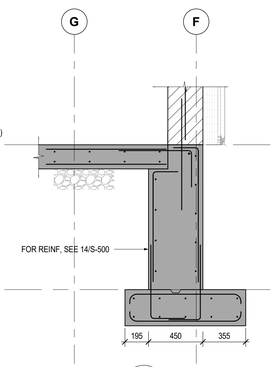


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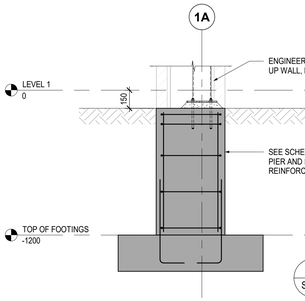


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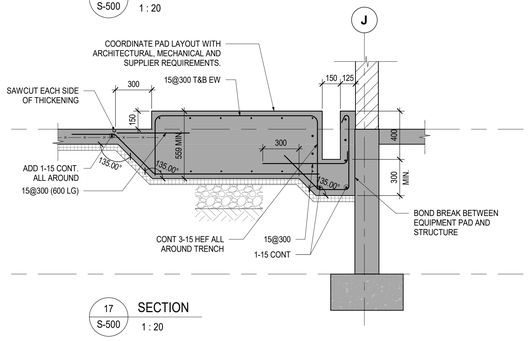


17 SECTION S-500 1 : 20

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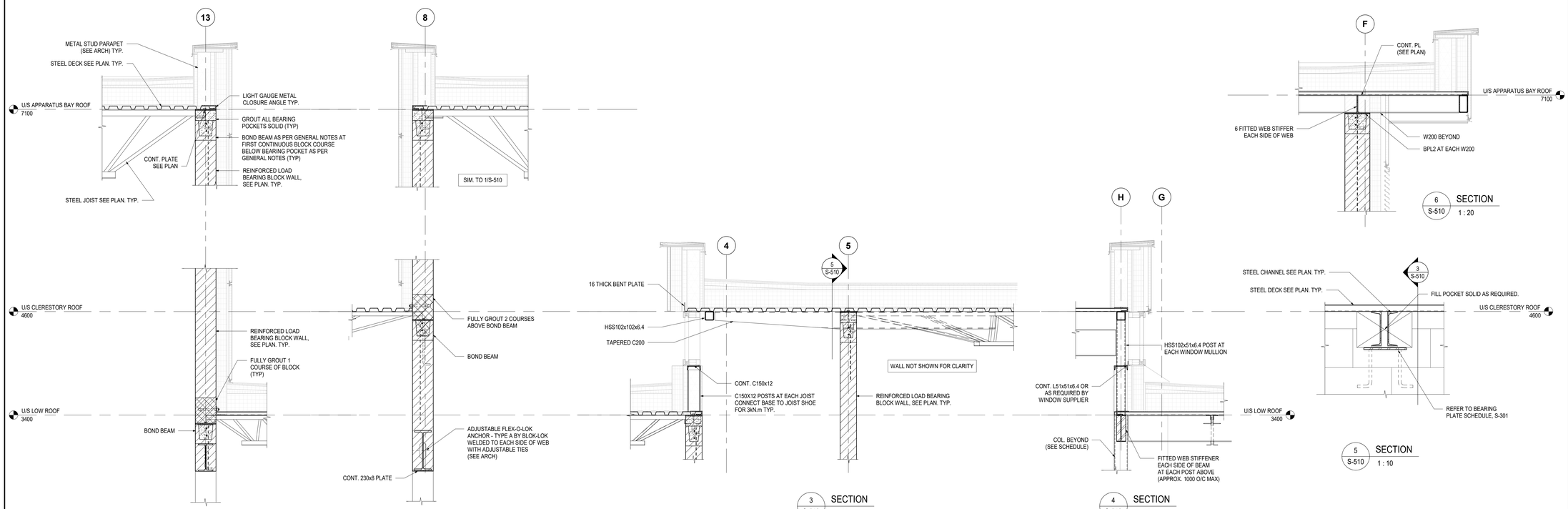
|---|---|---|
| 3 | ISSUED FOR TENDER | 2024-04-29 |
| 2 | ISSUED FOR BUILDING PERMIT | 2024-01-22 |
| 1 | ISSUED FOR CLASS A ESTIMATE | 2024-01-22 |

DRAWING TITLE:
FOUNDATION SECTIONS

ISSUE DATE: 2024-04-29
DRAWN BY: H.R. CHECKED BY: S.H.
PROJECT NO.: 23394 SCALE: 1 : 20
DRAWING NO.: S-500 REVISION: 3

PLOT DATE: 2024-04-29 11:47:12

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DRAWING TITLE:

ROOF SECTIONS

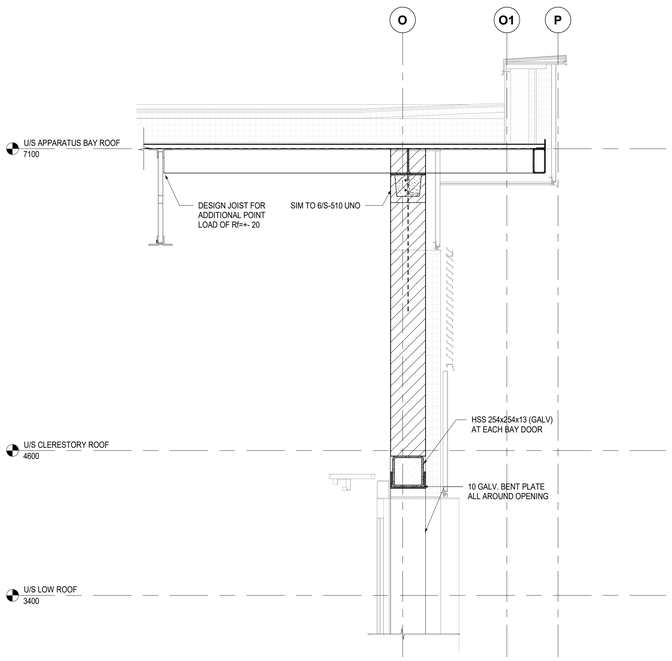
ISSUE DATE: 2024-04-29

DRAWN BY: H.R. CHECKED BY: S.H.

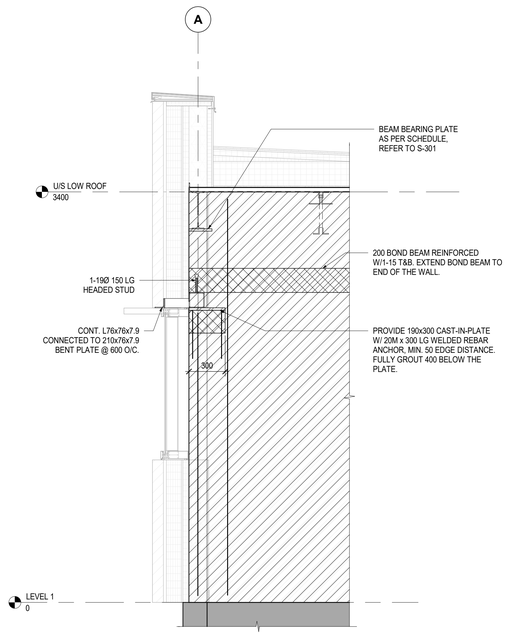
PROJECT NO.: 23394 SCALE: As indicated

DRAWING NO.: S-510 REVISION: 3


PLOT DATE: 2024-05-01 11:47:13




1 S-511 SECTION
1 : 20




2 S-511 SECTION
1 : 20

MISSISSAUGA

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DRAWING TITLE:

ROOF SECTIONS

ISSUE DATE: 2024-04-29

DRAWN BY: H.R. CHECKED BY: S.H.

PROJECT NO.: 23394 SCALE: 1 : 20

DRAWING NO.: S-511

REVISION: 3

PLOT DATE: 2024-05-01 11:47:15

# CITY OF MISSISSAUGA
# FIRE STATION 123

250 ROWNTRE DAIRY RD.
WOODBRDIGE, ONTARIO
TEL: 905-507-0800
WEB: www.quasarcg.com

PROJECT NO: CM-22-281

## ELECTRICAL LEGEND

| SYMBOL | DESCRIPTION |
|---|---|
| | |
| LINETYPES | |
| ——— | NEW WORK |
| ——— | WORK TO BE DEMOLISHED, OR REMOVED |
| ——— | EXISTING MATERIAL/EQUIPMENT/SERVICES TO REMAIN. |
| – – – – | FUTURE WORK (NOT IN SCOPE) |
| ——— | EXTENTS OF FIRE ALARM ZONE, WET LOCATION, OR OTHER AREA AS NOTED ON PLANS |
| | ABBREVIATIONS |
| E | EXISTING TO REMAIN |
| R | EXISTING TO BE DEMOLISHED/REMOVED |
| ER | EXISTING IN RELOCATED POSITION |
| RR | REMOVE AND RELOCATE |
| C | CEILING MOUNTED CONNECTION |
| W | WALL MOUNTED CONNECTION |
| F | FLOOR MOUNTED CONNECTION |
| ¢ | CENTRE LINE |
| AFF | ABOVE FINISHED FLOOR |
| AFG | ABOVE FINISHED GRADE |
| O/C | OVER COUNTER |
| U/C | UNDER CABINET |
| U/F | UNDER RAISED FLOOR |
| CCT | CIRCUIT |
| CTE | CONNECT TO EXISTING |
| AFCI | ARC FAULT CIRCUIT INTERRUPTER |
| GFCI | GROUND FAULT CIRCUIT INTERRUPTER |
| GFI | GROUND FAULT INTERRUPTER |
| IG | ISOLATED GROUND |
| TL | TWIST LOCK |
| TR | TAMPER RESISTANT |
| WG | WIRE GUARD |
| WP | WEATHER PROOF |
| EX | EXPLOSION PROOF |
| HZ | HAZARDOUS LOCATION |
| R/I | ROUGH-IN ONLY |
| N/C | NOT IN CONTRACT |
| SIM. | SIMILAR TO |
| TYP. | TYPICAL |
| | ABBREVIATIONS - CODES AND STANDARDS |
| OBC | ONTARIO BUILDING CODE |
| OESC | ONTARIO ELECTRICAL SAFETY CODE |
| OFC | ONTARIO FIRE CODE |
| | ABBREVIATIONS - CEILING TYPES |
| ACT | ACOUSTIC CEILING TILE (T-BAR) |
| EXP | EXPOSED CEILING |
| OWSJ | OPEN WEB STEEL JOISTS |
| PCC | PAINTED OR POPCORN CEILING ON EXPOSED CONCRETE |
| WD | WOOD CEILING |
| | ANNOTATIONS |
| CL | CLOSET |
| WR | WASHROOM |
| | PLUMBING |
| PTP | ELECTRONIC TRAP PRIMER |
| PSC | PLUMBING SENSOR CONTROL (TOUCHLESS FAUCETS) |
| | HVAC |
| T | THERMOSTAT OR TEMPERATURE SENSOR |
| T | TIMER CONTROL |
| BBH | ELECTRIC BASEBOARD HEATER (BBH) |
| FFH | FORCED FLOW HEATER |
| ERV | ENERGY RECOVERY VENTILATOR |
| HRU | HEAT RECOVERY UNIT |
| MUA | MAKE-UP AIR UNIT |
| | CONDUIT AND BOXES |
| | CONDUIT WITH END BUSHING |
| | CONDUIT UP |
| | CONDUIT DOWN |
| | CONDUIT CONTINUES |
| JB | JUNCTION BOX |
| PB | PULL BOX |
| HH | HAND HOLE |
| | CONNECTIONS TO EQUIPMENT |
| DW | DISHWASHER |
| FR | FRIDGE |
| MW | MICROWAVE |
| HD | HAND DRYER. ALLOW UP TO 208V-1PH-20A |
| | 1-PHASE DIRECT CONNECTION OUTLET AS NOTED. |
| | 3-PHASE DIRECT CONNECTION OUTLET AS NOTED. |

THIS LEGEND IS GENERIC. ALL SYMBOLS LISTED MAY NOT BE APPLICABLE FOR THIS PROJECT. REFER TO FLOOR PLANS TO DETERMINE USED DEVICES AND EQUIPMENT.

## ELECTRICAL LEGEND

| SYMBOL | DESCRIPTION |
|---|---|
| | SYSTEM FURNITURE WALL FEED FOR POWER AND TELECOMMUNICATIONS UNLESS NOTED OTHERWISE. 'C' ADJACENT TO SYMBOL DENOTES CEILING FEED, 'F' ADJACENT TO SYMBOL DENOTES FLOOR FEED. |
| W | ADJACENT TO 3-PHASE DIRECT CONNECTION, DENOTES WALL SYSTEM FURNITURE FEED FOR POWER AND COMMUNICATIONS. |
| | FLOOR RECEPTACLE OR RECEPTACLE IN FLOOR BOX (POWER ONLY) |
| | SERVICE POLE. PROVIDE POWER TO JUNCTION BOX IN CEILING SPACE ABOVE. DEVICES ON POLE AS NOTED ON PLANS. |
| FB1 | ADJACENT TO FLOOR RECEPTACLE, DENOTES FLOOR BOX TYPE |
| * | ADJACENT TO DEVICE, DENOTES DEVICE CONNECTED TO EMERGENCY POWER |
| | LIGHTING FIXTURES<br>SYMBOLS IN ACCORDANCE WITH IES DG-3-00 AND IES HB-10-11 WHERE NOT DETAILED OTHERWISE HERE.<br>REFER TO LIGHTING FIXTURE SCHEDULE FOR FURTHER DETAILS AND EXACT FIXTURE REQUIREMENTS. |
| | LINEAR LUMINAIRE, SURFACE MOUNTED TO CEILING |
| | LINEAR LUMINAIRE, RECESSED IN CEILING |
| | LINEAR LUMINAIRE, SUSPENDED, PENDANT, CHAIN, STEM, OR AIRCRAFT CABLE HUNG TO SUIT APPLICATION, OR AS NOTED IN SCHEDULE. "X", WHEN USED DENOTES POWER FEED LOCATION. |
| | LINEAR LUMINAIRE, WALL MOUNTED |
| | AS ABOVE, CONNECTED TO EMERGENCY OR NIGHT LIGHTING CIRCUIT AS INDICATED. |
| | ROUND OR SQUARE DOWNLIGHT, RECESSED |
| | RECESSED DOWNLIGHTS, CONNECTED TO EMERGENCY OR NIGHT LIGHT CIRCUIT |
| | ROUND SUSPENDED LUMINAIRE |
| | WALL SCONCE OR OTHER WALL MOUNTED LUMINAIRES. |
| EM | CONNECTED TO EMERGENCY NIGHT LIGHT CIRCUIT (24 HOUR) |
| CE | CONNECTED TO EMERGENCY CIRCUIT. PROVIDE CUL 924 LISTED SHUNT TRIP RELAY OR EQUAL TO PERMIT CONTROL OF LUMINAIRE WITH ZONING BASED ON LOCAL LIGHTING CONTROLS. |
| NL | LUMINAIRE CONNECTED TO NON-EMERGENCY NIGHT LIGHT CIRCUIT (24 HOUR) |
| A, B, Z1, Z2, ETC. | DENOTES ZONING/CIRCUITING ASSIGNMENTS FOR LUMINAIRES AND CONTROLS IN THE SAME SPACE. |
| | EMERGENCY LIGHTING<br>REFER TO EMERGENCY LIGHTING FIXTURE SCHEDULE FOR EXACT FIXTURE REQUIREMENTS. |
| | CEILING OR WALL MOUNTED ILLUMINATED EXIT SIGN. SHADED AREA INDICATES ILLUMINATED FACE. PROVIDE DIRECTIONAL ARROWS AS INDICATED ON PLANS. |
| | CEILING OR WALL MOUNTED ILLUMINATED EXIT SIGN. SHADED AREA INDICATES ILLUMINATED FACE. PROVIDE DIRECTIONAL ARROWS AS INDICATED ON PLANS. |
| SL | DENOTES 'SELF-LUMINOUS' EXIT SIGN |
| PL | PHOTOLUMINOUS EXIT SIGN |
| | EMERGENCY LIGHTING BATTERY UNIT, WITH AND WITHOUT HEADS. |
| | ONE AND TWO HEAD WALL MOUNTED EMERGENCY LIGHTING REMOTE UNITS. |
| | ONE AND TWO HEAD CEILING MOUNTED EMERGENCY LIGHTING REMOTE UNITS. |
| | RECESSED EMERGENCY REMOTE HEAD. |
| EM | DENOTES 'EMERGENCY' |
| CCT | CORRELATED COLOUR TEMPERATURE |
| CRI | COLOUR RENDERING INDEX |
| | EXTERIOR LIGHTING |
| | ARM MOUNTED LUMINAIRE ON POLE. DIRECTIONAL ARROW, WHERE INDICATED DENOTES PRIMARY LUMEN ORIENTATION. |
| | POST TOP LUMINAIRE ON POLE. DIRECTIONAL ARROW, WHERE INDICATED DENOTES PRIMARY LUMEN ORIENTATION. |
| | LIGHTING BOLLARD, DIRECTIONAL ARROW, WHERE INDICATED DENOTES PRIMARY LUMEN ORIENTATION. |
| | GROUND MOUNTED FLOOD LIGHT |
| | TELECOMMUNICATIONS |
| | SYSTEM FURNITURE FEED. |
| W | ADJACENT TO SYSTEM FURNITURE FEED, DENOTES WALL SYSTEM FURNITURE FEED FOR COMMUNICATIONS. |
| F | ADJACENT TO SYSTEM FURNITURE FEED, DENOTES FLOOR SYSTEM FURNITURE FEED FOR COMMUNICATIONS. |
| C | ADJACENT TO SYSTEM FURNITURE FEED, DENOTES CEILING SYSTEM FURNITURE FEED FOR COMMUNICATIONS (SERVICE POLE OR DROP CORD AS NOTED). |
| | CABLE TRAY (LADDER TYPE) |
| | CABLE TRAY (BASKET TYPE) |
| | WALL MOUNTED DATA (D) OR VOICE (V) OUTLET. PROVIDE 1V AND 1D UNLESS NOTED OTHERWISE. |
| | WALL MOUNTED VOICE (TELEPHONE) OUTLET. PROVIDE 1V UNLESS NOTED OTHERWISE. |

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| SYMBOL | DESCRIPTION |
|---|---|
| | LS-30R SPECIAL RECEPTACLE. VERIFY OUTLET REQUIREMENTS PRIOR TO ROUGH-IN. |
| | SPECIAL RECEPTACLE. VERIFY OUTLET REQUIREMENTS PRIOR TO ROUGH-IN. |
| | FLOOR RECEPTACLE OR RECEPTACLE IN FLOOR BOX (POWER ONLY) |
| | SERVICE POLE. PROVIDE POWER TO JUNCTION BOX IN CEILING SPACE ABOVE. DEVICES ON POLE AS NOTED ON PLANS. |
| FB1 | ADJACENT TO FLOOR RECEPTACLE, DENOTES FLOOR BOX TYPE |
| * | ADJACENT TO DEVICE, DENOTES DEVICE CONNECTED TO EMERGENCY POWER |
| | LIGHTING FIXTURES<br>SYMBOLS IN ACCORDANCE WITH IES DG-3-00 AND IES HB-10-11 WHERE NOT DETAILED OTHERWISE HERE.<br>REFER TO LIGHTING FIXTURE SCHEDULE FOR FURTHER DETAILS AND EXACT FIXTURE REQUIREMENTS. |
| | LINEAR LUMINAIRE, SURFACE MOUNTED TO CEILING |
| | LINEAR LUMINAIRE, RECESSED IN CEILING |
| | LINEAR LUMINAIRE, SUSPENDED, PENDANT, CHAIN, STEM, OR AIRCRAFT CABLE HUNG TO SUIT APPLICATION, OR AS NOTED IN SCHEDULE. "X", WHEN USED DENOTES POWER FEED LOCATION. |
| | LINEAR LUMINAIRE, WALL MOUNTED |
| | AS ABOVE, CONNECTED TO EMERGENCY OR NIGHT LIGHTING CIRCUIT AS INDICATED. |
| | ROUND OR SQUARE DOWNLIGHT, RECESSED |
| | RECESSED DOWNLIGHTS, CONNECTED TO EMERGENCY OR NIGHT LIGHT CIRCUIT |
| | ROUND SUSPENDED LUMINAIRE |
| | WALL SCONCE OR OTHER WALL MOUNTED LUMINAIRES. |
| EM | CONNECTED TO EMERGENCY NIGHT LIGHT CIRCUIT (24 HOUR) |
| CE | CONNECTED TO EMERGENCY CIRCUIT. PROVIDE CUL 924 LISTED SHUNT TRIP RELAY OR EQUAL TO PERMIT CONTROL OF LUMINAIRE WITH ZONING BASED ON LOCAL LIGHTING CONTROLS. |
| NL | LUMINAIRE CONNECTED TO NON-EMERGENCY NIGHT LIGHT CIRCUIT (24 HOUR) |
| A, B, Z1, Z2, ETC. | DENOTES ZONING/CIRCUITING ASSIGNMENTS FOR LUMINAIRES AND CONTROLS IN THE SAME SPACE. |
| | EMERGENCY LIGHTING<br>REFER TO EMERGENCY LIGHTING FIXTURE SCHEDULE FOR EXACT FIXTURE REQUIREMENTS. |
| | CEILING OR WALL MOUNTED ILLUMINATED EXIT SIGN. SHADED AREA INDICATES ILLUMINATED FACE. PROVIDE DIRECTIONAL ARROWS AS INDICATED ON PLANS. |
| | CEILING OR WALL MOUNTED ILLUMINATED EXIT SIGN. SHADED AREA INDICATES ILLUMINATED FACE. PROVIDE DIRECTIONAL ARROWS AS INDICATED ON PLANS. |
| SL | DENOTES 'SELF-LUMINOUS' EXIT SIGN |
| PL | PHOTOLUMINOUS EXIT SIGN |
| | EMERGENCY LIGHTING BATTERY UNIT, WITH AND WITHOUT HEADS. |
| | ONE AND TWO HEAD WALL MOUNTED EMERGENCY LIGHTING REMOTE UNITS. |
| | ONE AND TWO HEAD CEILING MOUNTED EMERGENCY LIGHTING REMOTE UNITS. |
| | RECESSED EMERGENCY REMOTE HEAD. |
| EM | DENOTES 'EMERGENCY' |
| CCT | CORRELATED COLOUR TEMPERATURE |
| CRI | COLOUR RENDERING INDEX |
| | EXTERIOR LIGHTING |
| | ARM MOUNTED LUMINAIRE ON POLE. DIRECTIONAL ARROW, WHERE INDICATED DENOTES PRIMARY LUMEN ORIENTATION. |
| | POST TOP LUMINAIRE ON POLE. DIRECTIONAL ARROW, WHERE INDICATED DENOTES PRIMARY LUMEN ORIENTATION. |
| | LIGHTING BOLLARD, DIRECTIONAL ARROW, WHERE INDICATED DENOTES PRIMARY LUMEN ORIENTATION. |
| | GROUND MOUNTED FLOOD LIGHT |
| | TELECOMMUNICATIONS |
| | SYSTEM FURNITURE FEED. |
| W | ADJACENT TO SYSTEM FURNITURE FEED, DENOTES WALL SYSTEM FURNITURE FEED FOR COMMUNICATIONS. |
| F | ADJACENT TO SYSTEM FURNITURE FEED, DENOTES FLOOR SYSTEM FURNITURE FEED FOR COMMUNICATIONS. |
| C | ADJACENT TO SYSTEM FURNITURE FEED, DENOTES CEILING SYSTEM FURNITURE FEED FOR COMMUNICATIONS (SERVICE POLE OR DROP CORD AS NOTED). |
| | CABLE TRAY (LADDER TYPE) |
| | CABLE TRAY (BASKET TYPE) |
| | WALL MOUNTED DATA (D) OR VOICE (V) OUTLET. PROVIDE 1V AND 1D UNLESS NOTED OTHERWISE. |
| | WALL MOUNTED VOICE (TELEPHONE) OUTLET. PROVIDE 1V UNLESS NOTED OTHERWISE. |

THIS LEGEND IS GENERIC. ALL SYMBOLS LISTED MAY NOT BE APPLICABLE FOR THIS PROJECT. REFER TO FLOOR PLANS TO DETERMINE USED DEVICES AND EQUIPMENT.

## ELECTRICAL LEGEND

| SYMBOL | DESCRIPTION |
|---|---|
| | WALL MOUNTED DATA OUTLET. PROVIDE 1D UNLESS NOTED OTHERWISE. |
| | WALL MOUNTED TELEVISION OUTLET. |
| | VOICE, DATA, OR TV OUTLET AS DESCRIBED ABOVE, MOUNTED ABOVE COUNTER TOP OR AS INSTRUCTED ON SITE. |
| B | ADJACENT TO COMMUNICATIONS OUTLET, INDICATES BLANK-OFF PLATE. |
| HDMI | HDMI OUTLET. |
| AV | AUDIO VIDEO GANG, AS NOTED. |
| WAP | WIRELESS ACCESS POINT (WIFI) |
| | AUDIO VISUAL SYSTEM SPEAKER, CEILING MOUNTED. |
| | AUDIO VISUAL SYSTEM SPEAKER, WALL MOUNTED. |
| | PUBLIC ADDRESS SYSTEM SPEAKER, CEILING MOUNTED. |
| | PUBLIC ADDRESS SYSTEM SPEAKER, WALL MOUNTED. |
| | PUBLIC ADDRESS SPEAKER, WALL MOUNTED HORN SPEAKER. |
| HS | PUBLIC ADDRESS SYSTEM HANDSET |
| AOC | PUBLIC ADDRESS SYSTEM ADMIN CONTROL CONSOLE |
| VOL | PUBLIC ADDRESS SPEAKER VOLUME CONTROL SWITCH. |
| | INTERCOM |
| IDC | INSULATION DISPLACEMENT CONNECTION |
| | CLOCK |
| MTX | GPS CLOCK SYSTEM MASTER TRANSMITTER |
| | GPS CLOCK SYSTEM GPS RECEIVER |
| RTX | GPS CLOCK SSTEM SETTELITE TRANSMITTER ( RECEIVER) |
| | GPS CLOCK SYSTEM RECEIVER SWITCH |
| | ACCESS CONTROL AND DOOR HARDWARE |
| CR | CARD READER |
| DA | DOOR ALARM SOUNDER |
| DC | DOOR CONTACT |
| OHDC | OVERHEAD DOOR CONTACT |
| EL | ELECTRIC LATCH |
| ES | ELECTRIC STRIKE |
| PTC | ELECTRIC POWER TRANSFER CABLE |
| PTH | POWER TRANSFER HINGE |
| SB | KEY SWITCH |
| SL | ELECTROMAGNETIC LOCK |
| MLR | MOTORIZED LATCH RETRACTION. PROVIDE 120 V. |
| REX | REQUEST TO EXIT SENSOR |
| | MUSHROOM HEAD PUSH BUTTON FOR 'REQUEST TO EXIT' MAGLOCK RELEASE, OR OTHER PUSH BUTTON AS INDICATED |
| | BARRIER FREE DOOR OPERATOR PUSH BUTTON |
| | BARRIER FREE DOOR OPERATOR PUSH BUTTON |
| WS | TOUCHLESS "WAVE SWITCH" FOR DOOR OPERATOR CONTROL |
| DB | DOOR BELL C/W SOUNDER AND STROBE |
| DB | DOOR BELL (SOUNDER ONLY) |
| | INTRUSION DETECTION |
| | GLASS BREAK (GB) |
| MD | MOTION DETECTOR (MD) |
| KP | KEYPAD (KP) |
| | VIDEO SURVEILLANCE |
| | CCTV CAMERA |
| C/P | CCTV CAMERA, CEILING OR POLE MOUNTED |
| | CCTV CAMERA, WALL MOUNTED |
| PTZ | PAN-TILT-ZOOM |
| | DURESS SYSTEM |
| DB | DURESS BUTTON (MOUNTED ON UNDERSIDE OF TABLETOP) |
| DB-W | WALL MOUNTED DURESS BUTTON WITH POLYCARBONATE ANTI-TAMPER COVER |
| | DURESS SYSTEM STROBE LIGHT |
| | FIRE DETECTION AND ALARM - GENERAL |
| CACF | CENTRAL ALARM AND CONTROL FACILITY |
| FACP | FIRE ALARM CONTROL PANEL |
| FAAP | FIRE ALARM ANNUNICATOR PANEL |
| FAAG | FIRE ALARM ACTIVE ANNUNCIATOR C/W GRAPHIC |
| FAPG | FIRE ALARM PASSIVE GRAPHIC |
| DGP | DATA GATHERING PANEL |
| FAZ | FIRE ALARM ZONE |
| FSZ | FIRE ALARM SUPERVISORY ZONE |
| FDSPCP | FIRE DETECTION, SUPPRESSION, AND PRE-ACTION CONTROL PANEL |
| FDSCP | FIRE DETECTION AND SUPPRESSION CONTROL PANEL |
| | FIRE ALARM PANEL (FACP, FAAP, FAMP) AS DENOTED ON PLANS |

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## ELECTRICAL LEGEND

| SYMBOL | DESCRIPTION |
|---|---|
| | FIRE DETECTION - INITIATION DEVICES |
| | MANUAL PULL STATION (MPS) |
| LX | WHERE NOTED ADJACENT TO MANUAL PULL STATIONS, DENOTES PULL STATION C/W POLYCARBONATE (LEXAN) COVER. |
| WG | WHERE NOTED ADJACENT TO MANUAL PULL STATIONS, DENOTES PULL STATION C/W WIRE GUARD COVER. |
| A | WHERE NOTED ADJACENT TO MANUAL PULL STATIONS, DENOTES MANUAL PULL STATION C/W AUXILIARY CONTACT. |
| | PHOTOELECTRIC SMOKE DETECTOR |
| | SAME AS ABOVE, WALL MOUNTED |
| SA | WHEN ADJACENT TO PHOTOELECTRIC SMOKE DETECTOR, INDICATES RESIDENTIAL SMOKE ALARM |
| | RESIDENTIAL SMOKE ALARM, 120 VOLT, COMPLETE WITH STROBE. FOR AREAS AS INDICATED ON PLANS BY "CO", PROVIDE INTEGRAL CARBON MONOXIDE DETECTION. |
| | SAME AS ABOVE, WALL MOUNTED |
| | DUCT MOUNTED SMOKE DETECTOR |
| CO | CARBON MONOXIDE DETECTOR |
| VESDA | VERY EARLY SMOKE DETECTING APPARATUS |
| BSDT | BEAM SMOKE DETECTOR TRANSMITTER |
| BSDR | BEAM SMOKE DETECTOR RECEIVER (OR REFLECTOR) |
| ASD | ASPIRATING SMOKE DETECTOR |
| EOL | END OF LINE (EOL) DEVICE ON ZONE INITIATION OR SIGNAL CIRCUITS |
| | HEAT DETECTOR - FIXED TEMPERATURE |
| | SAME AS ABOVE, WALL MOUNTED |
| HT | ADJACENT TO HEAT DETECTOR, DENOTES "HIGH TEMPERATURE" |
| | HEAT DETECTOR - 94 DEGREES C (200 DEGREES F) FIXED TEMPERATURE |
| | HEAT DETECTOR - 58 DEGREES C (135 DEGREES F) FIXED TEMPERATURE AND RATE OF RISE |
| | LINEAR HEAT DETECTION CABLE |
| FS | FLOW SWITCH |
| | FIRE DETECTION AND ALARM - SUPERVISORY DEVICES |
| LL | LOW TANK LEVEL |
| LP | LOSS OF POWER |
| LT | LOW TEMPERATURE |
| PS | PRESSURE SWITCH |
| SV | SUPERVISED VALVE |
| MON | SUPERVISED VALVE |
| | FIRE DETECTION AND ALARM - SIGNALLING DEVICES |
| | FIRE ALARM BELL. WALL MOUNTED. |
| C | ADJACENT TO BELL OR HORN, DENOTES CEILING MOUNTED. |
| | FIRE ALARM HORN |
| M | ADJACENT TO FIRE ALARM HORN, DENOTES 'MINI' HORN |
| | FIRE ALARM HORN/STROBE, WALL MOUNTED. |
| EV | FIRE ALARM EVACUATION SPEAKER, CEILING MOUNTED |
| | FIRE ALARM EVACUATION SPEAKER, COMPLETE WITH STROBE LIGHT, CEILING MOUNTED |
| EV | FIRE ALARM EVACUATION SPEAKER, WALL MOUNTED |
| EVC | FIRE ALARM EVACUATION SPEAKER COMPLETE WITH STROBE LIGHT, WALL MOUNTED |
| SS | SILENCE SWITCH |
| | FIRE ALARM WALL MOUNTED STROBE LIGHT |
| | FIRE DETECTION AND ALARM - VOICE COMMUNICATION DEVICES |
| FF | EMERGENCY TELEPHONE FOR FIREFIGHTER'S USE |
| | FIRE DETECTION AND ALARM - OTHER DEVICES |
| EOL | END OF LINE DEVICE |
| WG | WIRE GUARD |
| DNE | "DO NOT ENTER" SIGN |
| KS | KEY SWITCH FOR FIREFIGHTER CONTROL OF ELEVATOR RECALL, OR AS NOTED |
| AM | ISOLATOR MODULE |
| R | OUTPUT RELAY, FUNCTION AS INDICATED |
| CM | CONTROL MODULE |
| MM | MONITOR MODULE |
| HO | MAGNETIC DOOR HOLDER AND RELEASING DEVICE ("HOLD OPEN") |
| | FIRE SUPPRESSION RELEASING STATION |
| | FIRE SUPPRESSION ABORT STATION |
| | SINGLE LINE DIAGRAM |
| | AIR CIRCUIT BREAKER |
| | MOLDED CASE CIRCUIT BREAKER |
| | DISCONNECT (UNFUSED) |
| | FUSE |
| M | METERING CABINET |
| | TRANSFORMER |
| | BUS DUCT |

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## ELECTRICAL LEGEND

| SYMBOL | DESCRIPTION |
|---|---|
| G | GENERATOR |
| | AUTOMATIC TRANSFER SWITCH |
| | AUTOMATIC TRANSFER SWITCH COMPLETE WITH SINGLE SIDED BYPASS ISOLATION |
| | AUTOMATIC TRANSFER SWITCH COMPLETE WITH SINGLE SIDED BYPASS ISOLATION |
| ATS | AUTOMATIC TRANSFER SWITCH |
| C | CONTACTOR |
| DP | DISTRIBUTION PANELBOARD |
| LP | LIGHTING PANELBOARD |
| MCB | MOBILE CONNECTION BOX |
| MCC | MOTOR CONTROL CENTRE |
| MTS | MANUAL TRANSFER SWITCH |
| RP | RECEPTACLE PANELBOARD |
| SPD | SURGE PROTECTIVE DEVICE |
| STS | STATIC TRANSFER SWITCH |
| SWBD | SWITCHBOARD |
| TX | TRANSFORMER |
| UPS | UNINTERRUPTIBLE POWER SUPPLY |
| | DETAIL REFERENCES |
| 1 | SHEET KEYNOTE |
| 1 | REVISION NUMBER |

THIS LEGEND IS GENERIC. ALL SYMBOLS LISTED MAY NOT BE APPLICABLE FOR THIS PROJECT. REFER TO FLOOR PLANS TO DETERMINE USED DEVICES AND EQUIPMENT.

## ELECTRICAL ENERGY EFFICIENT NOTES FOR PERMIT (ONTARIO)

| ITEM | DESCRIPTION | CODE REFERENCE | SPECIFICATION REFERENCE | REMARKS |
|---|---|---|---|---|
| 1A. | FEEDER CONDUCTORS TO BE SIZED FOR MAXIMUM VOLTAGE DROP OF 2% AT DESIGN LOAD. | OBC SB-10 2017, ASHRAE 90.1-2013, 8.4.1. | 26 05 19 | |
| 1B. | BRANCH CIRCUIT CONDUCTORS TO BE SIZED FOR MAXIMUM VOLTAGE DROP OF 3% AT DESIGN LOAD. | OBC SB-10 2017, ASHRAE 90.1-2013, 8.4.1. | 26 05 19 | |
| 2. | 50% RECEPTACLE CONTROLS IN CONFERENCE ROOMS, COPY ROOMS, BREAK ROOMS, CLASSROOMS, AND INDIVIDUAL WORKSTATIONS. | OBC SB-10 2017, ASHRAE 90.1-2013, 8.4.2. | 26 09 23 | |
| 3. | MEASUREMENT DEVICES ROUGHED IN TO MONITOR THE ELECTRICAL ENERGY USE FOR EACH OF THE FOLLOWING UNLESS EXCEMPT: A. TOTAL ELECTRICAL ENERGY; B. HVAC; C. INTERIOR LIGHTING; D. EXTERIOR LIGHTING, E. RECEPTACLE CIRCUITS. | OBC SB-10 2017, ASHRAE 90.1-2013, 8.4.3. | 26 27 13 | |
| 4. | NEW LOW-VOLTAGE TRANSFORMERS TO MEET THE NOMINAL EFFICIENCIES SHOWN IN ASHRAE 90.1-2013, TABLE 8.4.4. UNLESS EXEMPT | OBC SB-10 2017, ASHRAE 90.1-2013, 8.4.4. | 26 22 13 | |
| 5. | PROVIDE LIGHTING CONTROL FUNCTIONS FOR EACH SPACE IN THE BUILDING PER PER ASHRAE 90.1-2013 TABLE 9.6.1. | OBC SB-10 2017, ASHRAE 90.1-2013, 9.4.1.1. | 26 09 23 | 90.1 EXEMPTIONS:<br>-NORMALLY OFF EMERGENCY LIGHTING<br>-DWELLING UNITS<br>-LIFE SAFETY OR OTHER ORDINANCE |
| 5.1. | SPACES PROVIDED WITH READILY ACCESSIBLE LOCAL CONTROLS. | OBC SB-10 2017, ASHRAE 90.1-2017, 9.4.1.1A. | 26 09 23 | |
| 5.2. | MAXIMUM OCCUPANCY SENSOR TIMEOUT 20 MINUTES. | OBC SB-10 2017, ASHRAE 90.1-2013, 9.4.1.1G. ASHRAE 90.1-2013, 9.4.1.1H. | 26 09 23 | |
| 6.1 | PARKING GARAGE LIGHTING TO BE PROVIDED WITH AUTOMATIC CONTROLS PER ASHRAE 90.1-2017 SECTION 9.4.1.2. | OBC SB-10 2017, ASHRAE 90.1-2013, 9.4.1.2 | | NOT APPLICABLE |
| 6.2 | PARKING GARAGE LIGHTING TO AUTOMATICALLY REDUCE LIGHTING POWER BY AT LEAST 30% BASED ON OCCUPANCY | OBC SB-10 2017, ASHRAE 90.1-2013, 9.4.1.2 | | NOT APPLICABLE |
| 6.3 | PARKING GARAGE DAYLIGHT TRANSITION ZONE TO BE ON A SEPARATE SCHEDULE. | OBC SB-10 2017, ASHRAE 90.1-2013, 9.4.1.2 | | NOT APPLICABLE |
| 6.4 | PARKING GARAGE LUMINAIRES TO BE PROVIDED WITH DAYLIGHT HARVESTING, IF NET OPENING-TO WALL RATIO IS GREATER THAN 40% UNLESS EXEMPT | OBC SB-10 2017, ASHRAE 90.1-2013, 9.4.1.2 | | NOT APPLICABLE |
| 7. | PROVIDE ADDITIONAL CONTROLS FOR SPECIAL APPLICATIONS LISTED ASHRAE 90.1 SECTION 9.4.1.3. | OBC SB-10 2017, ASHRAE 90.1-2013, 9.4.1.3 | 26 09 23 | |
| 8. | INTERIOR LIGHTING POWER COMPLIES WITH ASHRAE 90.1-2013 9.2.2.3 AS MODIFIED BY SB-10. | OBC SB-10 2017, ASHRAE 90.1-2013, 9.2.2.3 | 26 51 00 | |
| 9.1 | PROVIDE A PHOTOSENSOR FOR AUTOMATIC SHUTOFF OF EXTERIOR LIGHTS WHEN AVAILABLE DAYLIGHT IS SUFFICIENT | OBC SB-10 2017, ASHRAE 90.1-2013, 9.4.1.4 | 26 09 23 | |
| 9.2 | PROVIDE A SHUTOFF FOR LANDSCAPE AND FACADE LIGHTING BETWEEN THE HOURS OF MIDNIGHT AND 6:00 A.M. | OBC SB-10 2017, ASHRAE 90.1-2013, 9.4.1.4 | 26 09 26 | |
| 9.3 | PROVIDE CONTROL TO REDUCE ILLUMINATED SIGNAGE POWER BY AT LEAST 30% BETWEEN MIDNIGHT AND 6:00 A.M. | OBC SB-10 2017, ASHRAE 90.1-2013, 9.4.1.4 | 26 09 26 | |
| 10. | EXTERIOR LIGHTING POWER COMPLIES WITH ASHRAE 90.1-2013 9.4.2. AS MODIFIED BY SB-10. | OBC SB-10 2017, ASHRAE 90.1-2013, 9.4.2. | 26 53 00 | |
| 11. | LIGHTING CONTROLS MANUFACTURER'S REPRESENTATIVE TO PROVIDE FUNCTIONAL TESTING AND REPORT IN ACCORDANCE WITH ASHRAE 90.1-2013 | OBC SB-10, ASHRAE 90.1-2013, 9.4.3. | 26 09 23 | |

## ELECTRICAL DRAWING LIST



| DRAWING # | DRAWING NAME |
|---|---|
| E-000 | COVER PAGE |
| E-001 | ELECTRICAL LEGEND AND DRAWING LIST |
| E-002 | ELECTRICAL SITE PLAN |
| E-003 | ELECTRICAL SITE PHOTOMETRIC PLAN |
| E-004 | ELECTRICAL SITE DETAILS |
| E-005 | ELECTRICAL UTILITY DETAILS I |
| E-006 | ELECTRICAL UTILITY DETAILS II |
| E-101 | POWER AND SYSTEMS PLAN |
| E-102 | ROOF POWER AND SYSTEMS PLAN |
| E-111 | LIGHTING PLAN |
| E-120 | FIRE ALARM KEY PLAN |
| E-131 | AUXILIARY SYSTEMS PLAN |
| E-401 | LARGE SCALE ELECTRICAL PLANS |
| E-501 | ELECTRICAL DETAILS I |
| E-502 | ELECTRICAL DETAILS II |
| E-503 | ELECTRICAL DETAILS III |
| E-504 | FIRE ALARM SCHEDULE AND DETAILS |
| E-601 | SINGLE LINE DIAGRAM |
| E-602 | ELECTRICAL PANELBOARD SCHEDULES I |
| E-603 | ELECTRICAL PANELBOARD SCHEDULES II |
| E-604 | EQUIPMENT WIRING SCHEDULE |
| E-605 | SCHEDULES FOR LIGHTING |



### GENERAL NOTES

1. WHERE DIMENSIONS ARE PROVIDED IN MILLIMETERS AND IN IMPERIAL UNITS, METRIC DIMENSIONS GOVERN.
2. EMERGENCY POWER FOR LIGHTING AND FIRE ALARM: MINIMUM 30 MINUTES (2012 OBC 3.2.7.4.(1)(b)(v) "30 MIN FOR ANY OTHER BUILDING"). 2 HOURS MIN RUN TIME REQUESTED BY OWNER.
3. FIRE ALARM INSTALLATION IN ACCORDANCE WITH CAN/ULC-524-14.
4. VERIFY FIRE ALARM SYSTEM IN ACCORDANCE WITH CAN/ULC-537-13.
5. COMMISSION INTERCONNECTED LIFE SAFETY SYSTEMS IN ACCORDANCE WITH CAN/ULC-S1001-11.
6. PROVIDE SEISMIC RESTRAINTS IN ACCORDANCE WITH SECTION 26 05 48. THIS IS A POST-DISASTER BUILDING. SEISMIC RESTRAINTS ARE REQUIRED PER 2012 OBC 4.1.8.18.(1) AND ARE NOT EXEMPT PER 2012 OBC 4.1.8.18.(2).
7. EXTRA MATERIALS. REFER TO THE FOLLOWING SPECIFICATIONS SECTIONS.
   - EXIT SIGNS: 26 52 13.16
   - EMERGENCY LIGHTING 26 52 13.13
   - FIRE ALARM: 28 46 13

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DRAWINGS ARE NOT TO BE SCALED.

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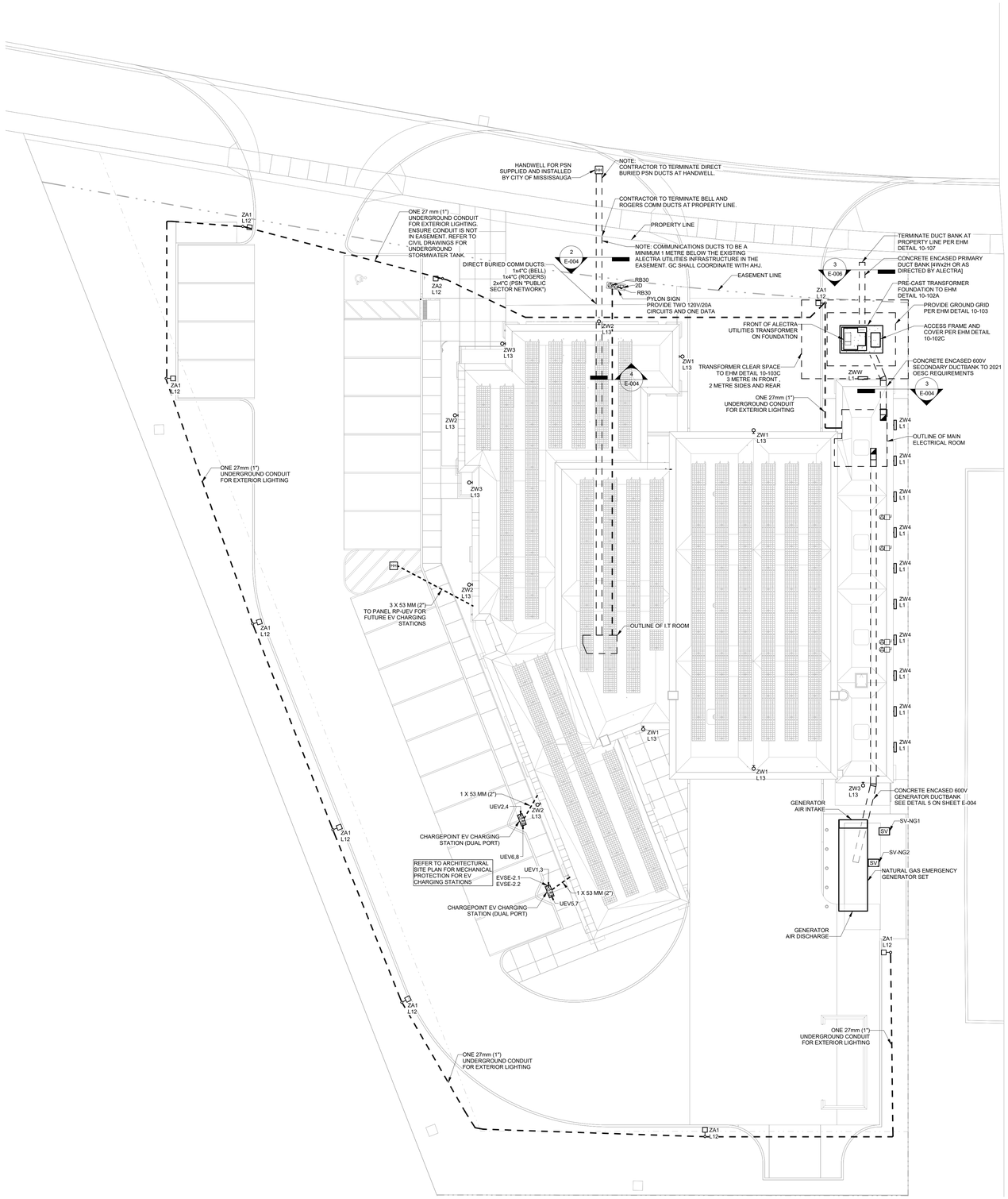
SEALS

| NO. | ISSUES/REVISIONS | DATE |
|---|---|---|
| 8 | ISSUED FOR TENDER | 2024-05-01 |
| 7 | ISSUED FOR TENDER | 2024-04-29 |
| 6 | ISSUED FOR TENDER REVIEW | 2024-03-08 |
| 5 | ISSUED FOR PERMIT | 2024-01





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| 5 | ISSUED FOR PERMIT | 2024-01-24 |
| 4 | ISSUED FOR 99% CD | 2024-01-19 |
| 3 | ALECTRA COORDINATION | 2023-12-18 |
| 2 | ISSUED FOR DESIGN DEVELOPMENT | 2023-10-06 |
| 1 | ALECTRA SERVICE REQUEST | 2023-08-11 |

DRAWING TITLE:

# ELECTRICAL SITE PLAN

ISSUE DATE: 2024-05-01

DRAWN BY: MS CHECKED BY: CB

PROJECT NO.: CM-22-281 SCALE: 1 : 150

DRAWING NO.: E-002

REVISION: 8

PLOT DATE: 2024-05-01 8:58:37 PM

## GENERAL NOTES

1. CITY OF MISSISSAUGA NUISANCE LIGHTING BY-LAW 626-12. "THE CITY IS EXEMPT FROM THE REQUIREMENTS OF THIS BY-LAW."
2. CITY OF MISSISSAUGA PROPERTY STANDARDS BY-LAW 654-89, SECTION 18 - LIGHTING:
   1. LIGHTING FIXTURES SHALL BE INSTALLED AND MAINTAINED IN ALL AREAS INSIDE AND OUTSIDE EVERY BUILDING OR STRUCTURE OR PART THEREOF SO THAT WORK, USE OR OCCUPATION NORMALLY CARRIED OUT IN SUCH AREAS CAN BE UNDERTAKEN SAFELY
   2. ALL FIXTURES AND ALL CONNECTIONS THERETO SHALL BE KEPT IN A SAFE WORKING CONDITION.
   3. EXTERIOR LIGHTING FIXTURES SHALL BE INSTALLED AND MAINTAINED SO AS TO PREVENT THE LIGHT SOURCE FROM SHINING DIRECTLY INTO A DWELLING UNIT.
3. CITY OF MISSISSAUGA SITE PLAN APPLICATION: PROCESS GUIDELINES, SECTION 2.1.1.2 - ENGINEER CERTIFIED LIGHTING PLAN REQUIREMENTS: ENGINEER CERTIFIED LIGHTING PLANS ARE REQUIRED FOR THE EXTERIOR LIGHTING ON A PROPERTY FOR ALL SITE PLAN APPLICATIONS WITHIN 60 m (196.8 FT.) OF A RESIDENTIALLY ZONED PROPERTY. SITE PLAN APPLICATIONS FOR DETACHED AND SEMI-DETACHED DWELLINGS ARE EXCLUDED.
   THE ENGINEER CERTIFIED LIGHTING PLAN MUST ILLUSTRATE:
   - THE LOCATION, NUMBER, TYPE, POSITION, ELEVATION AND MOUNTING HEIGHT OF ALL EXTERIOR LIGHT FIXTURES INCLUDING EXTERIOR LIGHTING ON TIMERS.
   - THE ELEVATION DRAWINGS MUST SHOW THE HEIGHT AND TYPE OF "SHIELDED" LIGHTING FIXTURE. ALL PROPOSED EXTERIOR LIGHTING IS REQUIRED TO BE "SHIELDED" (EXAMPLES OF ACCEPTABLE/UNACCEPTABLE LIGHTING FIXTURES).
   - THE LIGHT SPREAD PATTERN DRAWING ALONG WITH ALL THE EXTERIOR LIGHT FIXTURE INFORMATION MUST BE SHOWN ON THE ENGINEERING CERTIFIED LIGHTING PLAN.
   - THE ENGINEER CERTIFIED LIGHTING PLAN MUST CONFORM TO THE SITE PLAN.
   - SITE WORKS SECURITIES ARE REQUIRED TO ENSURE THAT THE LIGHTING IS "SHIELDED" AND INSTALLED CORRECTLY AS PER THE APPROVED SITE PLAN AND ENGINEER CERTIFIED LIGHTING PLAN. THE SITE PLAN SECURITIES FOR EXTERIOR LIGHTING INCLUDE THE EXTERNAL TREESTANDING FIXTURES, INCLUDING POLE MOUNTED LIGHTING, BOLLARDS, IN-GROUND LIGHTING, FLOOD-LIGHTS, ETC. A LUMP SUM SECURITY WILL BE REQUIRED FOR WALL MOUNTED FIXTURES.
4. LIGHTING DESIGN CRITERIA PER IES RP-8-18, CHAPTER 17: MINIMUM 5 LUX IN PARKING AREAS AND DRIVES, WITH A MAX:MIN UNIFORMITY OF 15:1 OR BETTER.
5. PHOTOMETRIC DATA POINTS ARE PROVIDED IN LUX. ANALYSIS PERFORMED WITH 0.9 LIGHT LOSS FACTOR (LLF) FOR ALL LUMINAIRES. PHOTOMETRIC ANALYSIS PERFORMED BY CREE WITH AGI32 SOFTWARE.
6. CITY OF MISSISSAUGA CORPORATE GREEN BUILDING (CGB) STANDARD:
   1. - ALL EXTERIOR FIXTURES MUST BE DARK SKY COMPLAINT, AS PER THE INTERNATIONAL DARK SKY ASSOCIATION (IDA).
   2. - ANY ROOFTOP AND FACADE ARCHITECTURAL ILLUMINATION MUST BE DIRECTED DOWNWARD AND TURNED OFF AFTER FACILITY OPERATING HOURS.
7. INTERNATIONAL DARK SKY ASSOCIATION SPECIFIES MAXIMUM 3000K CCT FOR ALL DARK SKY COMPLIANT LUMINAIRES.
8. EXTERIOR LIGHTING MANUFACTURER TO SUBMIT PHOTOMETRIC ANALYSIS PLAN OF PROPOSED LUMINAIRES SHOWING DELIVERED LIGHT LEVELS (MEASURED IN LUX), AND DEMONSTRATING MINIMIZING LIGHT TRESPASS.
9. UNDERGROUND LIGHTING CONDUCTORS MINIMUM #6 AWG.
10. EXTERIOR LIGHTING CONTROL SEQUENCE OF OPERATION TO ASHRAE-90.1-2013 9.4.1.4, AS AMENDED BY 2012 OBC SB-10 VERSION EFFECTIVE JANUARY 1, 2017
    - POLE MOUNTED LIGHTING TURNS OFF AUTOMATICALLY BY PHOTOCELL SENSOR WHEN SUFFICIENT DAYLIGHT IS AVAILABLE OR BY TIME SCHEDULE.
    - ALL BUILDING FACADE AND LANDSCAPE LIGHTING (TYPE ZZW1) SHALL BE AUTOMATICALLY SHUT OFF BETWEEN MIDNIGHT AND 6AM.
    - EACH LUMINAIRE SHALL BE CONTROLLED BY A PHOTOCELL DEVICE THAT AUTOMATICALLY TURNS OFF THE LIGHTING WHEN SUFFICIENT DAYLIGHT IS AVAILABLE. (ASHRAE 90.1-2013 9.4.1.4.a.)
11. SITE CLASSIFIED LIGHTING ZONE "LZ2" BASED ON ASHRAE 90.1-2013, TABLE 9.4.2-1: "AREAS PREDOMINANTLY CONSISTING OF RESIDENTIAL ZONING, NEIGHBOURHOOD BUSINESS DISTRICTS, LIGHT INDUSTRIAL WITH LIMITED NIGHTTIME USE AND RESIDENTIAL MIXED USE AREAS."
12. ALL EXTERIOR LIGHTING TO BE MINIMUM 80 CRI IN ACCORDANCE WITH IES G-1-16, AND OPTED PRINCIPALS.

## LUMINAIRE SCHEDULE

ZA1 LED AREA LUMINAIRE ON 18 FOOT HIGH, 5 INCH SQUARE METAL POLE, BACKLIGHT CONTROL DISTRIBUTION. MOUNTED ON CONCRETE "ARTFORMS KELLAMY 610R" BASE EXTENDING 36 INCHES ABOVE FINISHED GRADE.
18 FOOT OVERALL MOUNTING HEIGHT ABOVE FINISHED GRADE.
THE EDGE SERIES BY CREE:
LUMINAIRE: ARE-EDR-4MB-04-E-350-30K
120 VOLT, 3000 K CCT, 80 CRI, 46 INPUT WATTS, 5003 LUMENS
B-U-G RATING B0-U0-G1. DARK SKY FRIENDLY, ZERO UPLIGHT.

ZA2 LED AREA LUMINAIRE ON 12 FOOT HIGH, 5 INCH SQUARE METAL POLE, BACKLIGHT CONTROL DISTRIBUTION. MOUNTED ON CONCRETE "ARTFORMS KELLAMY 610R" BASE EXTENDING 36 INCHES ABOVE FINISHED GRADE.
18 FOOT OVERALL MOUNTING HEIGHT ABOVE FINISHED GRADE.
THE EDGE SERIES BY CREE:
LUMINAIRE: ARE-EDR-4M-04-E-350-30K
120 VOLT, 3000 K CCT, 80 CRI, 46 INPUT WATTS, 5003 LUMENS
B-U-G RATING B0-U0-G1. DARK SKY FRIENDLY, ZERO UPLIGHT.

ZW1 LED WALL MOUNT LUMINAIRE WITH TYPE 4 DISTRIBUTION.
XPS SERIES BY CREE:
LUMINAIRE: SEC-EDG-4M-02-E-525-30K
120 VOLT, 3000 K, MIN 80 CRI, 37 INPUT WATTS, 3550 LUMENS
B-U-G RATING B1-U0-G1. DARK SKY FRIENDLY, ZERO UPLIGHT.

ZW2 LED WALL MOUNT LUMINAIRE WITH TYPE 4 DISTRIBUTION.
XPS SERIES BY CREE:
LUMINAIRE: SEC-EDG-3M-02-E-525-30K
120 VOLT, 3000 K, MIN 80 CRI, 37 INPUT WATTS, 3385 LUMENS
B-U-G RATING B1-U0-G1. DARK SKY FRIENDLY, ZERO UPLIGHT.

ZW3 LED WALL MOUNT LUMINAIRE WITH TYPE 4 DISTRIBUTION.
XPS SERIES BY CREE:
LUMINAIRE: SEC-EDG-3M-02-E-525-30K
120 VOLT, 3000 K, MIN 80 CRI, 25 INPUT WATTS, 2501 LUMENS
B-U-G RATING B1-U0-G1. DARK SKY FRIENDLY, ZERO UPLIGHT.

ZW4 LED WALL WASHER.
TROV SERIES BY ECOSENSE LIGHTING:
LUMINAIRE: L50-I-12-02-30-80-MULT-9x59
120 VOLT, 3000 K, MIN 80 CRI, 2 INPUT WATTS, 139 LUMENS
B-U-G RATING B1-U0-G1. DARK SKY FRIENDLY, ZERO UPLIGHT.

ZWW LED WALL WASHER.
TROV SERIES BY ECOSENSE LIGHTING:
LUMINAIRE: L50-I-12-02-30-80-MULT-70x70
120 VOLT, 3000 K, MIN 80 CRI, 6 INPUT WATTS, 614 LUMENS
B-U-G RATING B1-U0-G1. DARK SKY FRIENDLY, ZERO UPLIGHT.

NOTES:

1. WHERE AN INCOMPLETE MODEL CAT NO. IS LISTED, MANUFACTURERS/SUPPLIERS MUST CONFIRM THE PROPOSED FIXTURE WITH THE CONSULTANT A MINIMUM OF ONE WEEK PRIOR TO TENDER CLOSE.
2. WHERE NOTED ABOVE THAT FIXTURES ARE TO HAVE FINISH TO SUIT ARCHITECT THE FINISH WILL BE SELECTED FROM MANUFACTURER'S OPTIONAL COLOUR CHART (I.E. RAL COLOURS OR EQUAL). PROVIDE THIS COLOUR CHART WITH SHOP DRAWING SUBMITTAL.
3. SUBMIT SHOP DRAWINGS FOR CONSULTANT'S REVIEW PRIOR TO PLACING ANY ORDER.
4. SEQUENCE OF OPERATION
   EACH LUMINAIRE SHALL BE CONTROLLED BY A PHOTOCELL DEVICE THAT AUTOMATICALLY TURNS OFF THE LIGHTING WHEN SUFFICIENT DAYLIGHT IS AVAILABLE. (ASHRAE 90.1-2013 9.4.1.4.a.)
5. PROVIDE NEMA 7-PIN RECEPTACLE C/W SHORTING CAP AND ROUGH-IN FOR FUTURE ZHAGA SOCKET.
6. LIGHTING MANUFACTURER TO SUBMIT PHOTOMETRIC ANALYSIS DEMONSTRATING COMPLIANCE WITH LIGHTING DESIGN CRITIERA, AND MUNICIPAL LIGHTING ORDINANCE.

FIXTURE TYPE ZA1

FIXTURE TYPE ZW1

FIXTURE TYPE ZW1

FIXTURE TYPE ZW2

FIXTURE TYPE ZW3

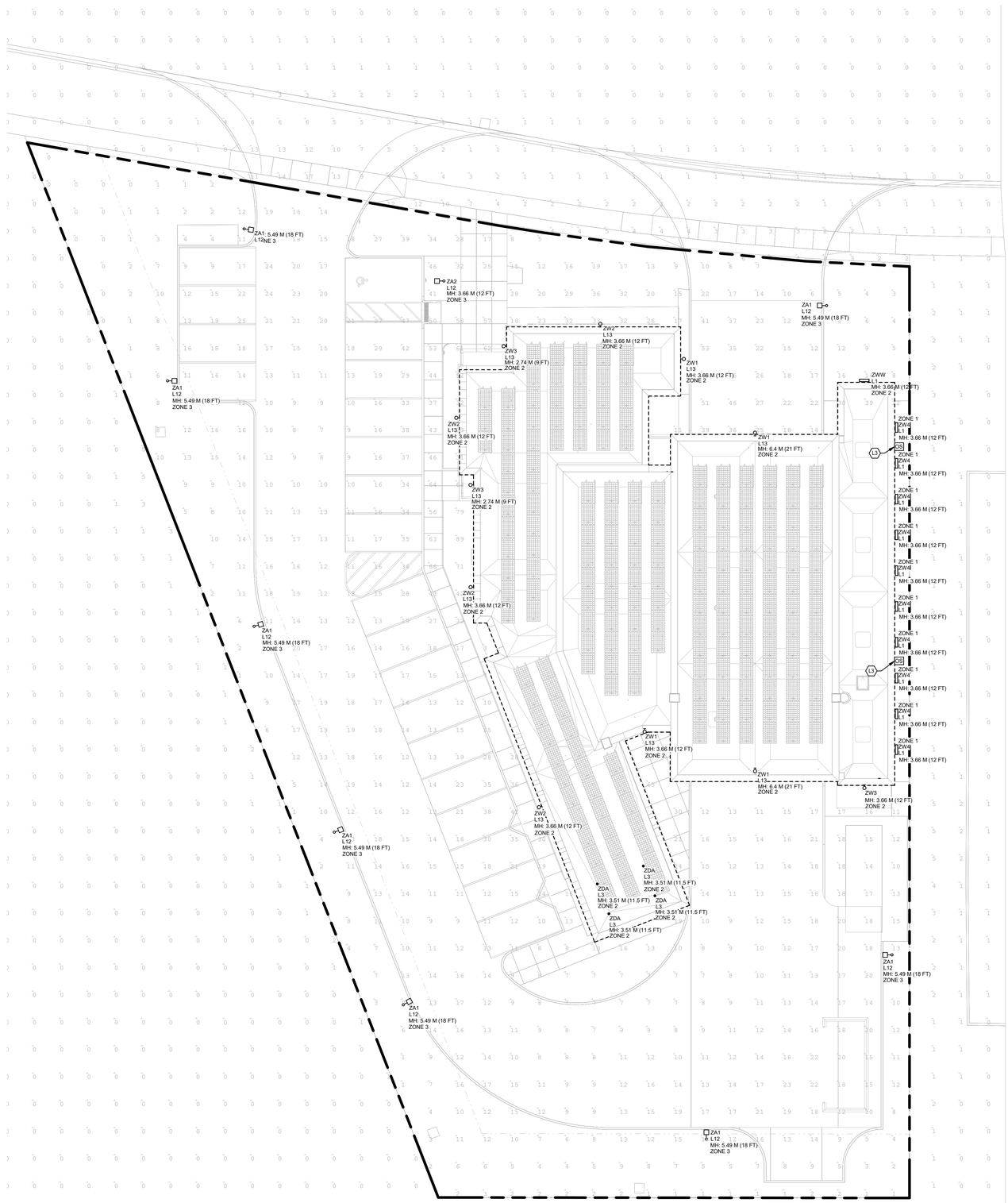
FIXTURE TYPE ZW4

FIXTURE TYPE ZWW

| LEGEND | |
|---|---|
| SYMBOL | DESCRIPTION |
| ↑□ | AREA LUMINAIRE ON POLE C/W CONCRETE BASE. DIRECTIONAL ARROW, WHERE NOTED DENOTES PRIMARY LUMEN ORIENTATION |
| ↑○ | WALL MOUNT LUMINAIRE |

| CALCULATION SUMMARY | | | | | | | |
|---|---|---|---|---|---|---|---|
| LABEL | CALC TYPE | UNITS | AVG | MAX | MIN | AVG/MIN | MAX/MIN |
| SPILL LIGHT | ILLUMINANCE | LUX | 0.11 | 14 | 0.0 | N.A. | N.A. |
| WHOLE SITE | ILLUMINANCE | LUX | 10.04 | 36.7 | 0.0 | N.A. | N.A. |
| PAVEMENT | ILLUMINANCE | LUX | 14.59 | 36.7 | 6.3 | 2.32 | 5.83 |

| KEYNOTE LEGEND | |
|---|---|
| Key Value | Keynote Text |
| L3 | PROVIDE OUTDOOR RATED 24 V OCCUPANCY SENSOR, WATTSTOPPER FSP-201B C/W FSP-L2 LENS, AND POWER PACK. ZW4 LUMINAIRES ALONG EAST WALL OF BUILDING TO BE ON ASTRONOMICAL TIME CLOCK+SENSOR OPERATION. |




| | | |
|---|---|---|
| 8 | ISSUED FOR TENDER | 2024-05-01 |
| 7 | ISSUED FOR TENDER | 2024-04-29 |
| 6 | ISSUED FOR TENDER REVIEW | 2024-03-08 |
| 5 | ISSUED FOR PERMIT | 2024-01-24 |
| 4 | ISSUED FOR 90% CD | 2024-01-19 |
| 3 | ALECTRA COORDINATION | 2023-12-18 |
| 2 | ISSUED FOR DESIGN DEVELOPMENT | 2023-10-06 |
| 1 | ALECTRA SERVICE REQUEST | 2023-08-11 |
| NO. | ISSUES/REVISIONS | DATE |

DRAWING TITLE:

ELECTRICAL SITE PHOTOMETRIC PLAN

ISSUE DATE: 2024-05-01

DRAWN BY: MS CHECKED BY: CB

PROJECT NO.: CM-22-281 SCALE: As indicated

DRAWING NO.: E-003 REVISION: 8

MISSISSAUGA

**CITY OF MISSISSAUGA**
**FIRE STATION 123**

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CONTRACTOR MUST VERIFY ALL DIMENSIONS ON THE JOB AND REPORT ANY DISCREPANCY TO ARCHITECTS BEFORE PROCEEDING WITH WORK.

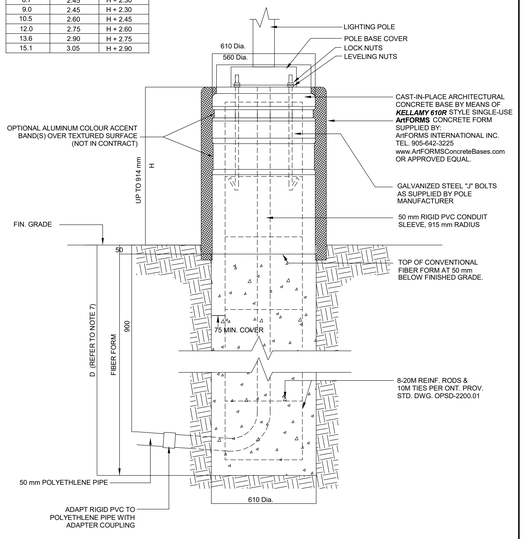
ALL DRAWINGS AND SPECIFICATIONS ARE THE PROPERTY OF THE ARCHITECT AND MUST BE RETURNED AT THE COMPLETION OF THE WORK.


SEALS

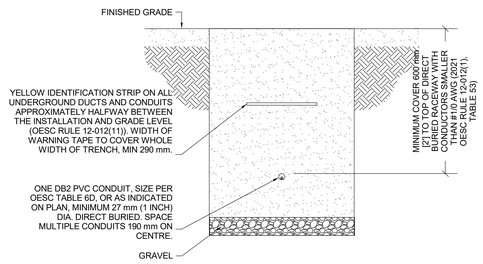

[PLOT DATE: 2024-05-01 9:08:46 PM]

| POLE LENGTH (m) | BASE BURIAL DEPTH D (m) | REINF. ROD LENGTH (m) |
|---|---|---|
| 3.0 | 1.50 | H + 1.35 |
| 5.6 | 2.15 | H + 2.00 |
| 7.0 | 2.15 | H + 2.00 |
| 7.5 | 2.15 | H + 2.00 |
| 8.7 | 2.45 | H + 2.30 |
| 9.0 | 2.45 | H + 2.30 |
| 10.5 | 2.60 | H + 2.45 |
| 12.0 | 2.75 | H + 2.60 |
| 13.6 | 2.90 | H + 2.75 |
| 15.1 | 3.05 | H + 2.90 |

NOTES:
1. ALL DIMENSIONS ARE IN MILLIMETRES OR METRES.
2. TOP OF FOUNDATION SHALL BE TROWELLED SMOOTH & LEVEL.
3. CLASS OF CONCRETE SHALL BE 25 MPa. CONCRETE SHALL BE VIBRATED.
4. MINIMUM OF TWO SLEEVES REQUIRED FOR EACH CONC. FOUNDATION UNLESS OTHERWISE SHOWN.
5. NOT USED.
6. CONTRACTOR TO VERIFY OPENING SIZE IN POLE BASE PLATE PRIOR TO SETTING CONDUIT SLEEVES.
7. SUBJECT TO SOIL CONDITIONS, REFER TO SOIL REPORT.
8. FORM RELEASE AGENT HAS BEEN FACTORY-APPLIED TO INSIDE SURFACE OF "ArtForm".




1 Lighting Standard High Arch Base
SCALE: N.T.S

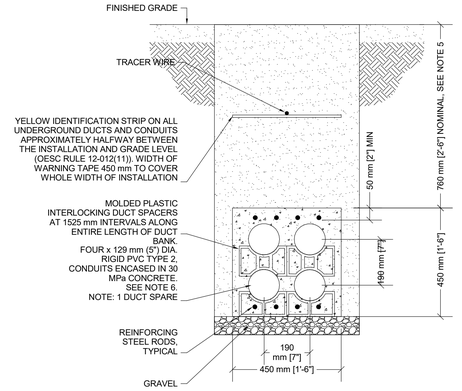



## DIRECT BURIED RACEWAY SECTION, 750 V OR LESS

NOTES:

1. METRIC DIMENSIONS GOVERN.
2. DIRECT BURIED RACEWAY DUCTS TO BE IN COMPLIANCE WITH 2021 ONTARIO ELECTRICAL SAFETY CODE (OESC) TABLE 53. MINIMUM COVER DEPTH MAY BE REDUCED BASED ON CRITERIA DESCRIBED IN TABLE 53.
3. DIRECT BURIED RACEWAY DUCTS TO BE INSPECTED PRIOR BACKFILL. COORDINATE WITH AUTHORITY HAVING JURISDICTION (ESA) AND RECEIVE ALL NECESSARY APPROVALS.
4. THIS DETAIL DOES NOT APPLY WHERE CONDUCTOR SIZE IS #1/0 OR GREATER IN A DIRECT BURIED RACEWAY. PROVIDE AN AMPACITY CALCULATION IN ACCORDANCE WITH IEEE 835.
5. WHERE MULTIPLE BRANCH CIRCUITS ARE ADJACENT, PROVIDE 190 mm SPACING BETWEEN CONDUITS.

2 1WX1H X 1IN DIRECT BURIED BRANCH CIRCUIT DUCTS
SCALE: N.T.S

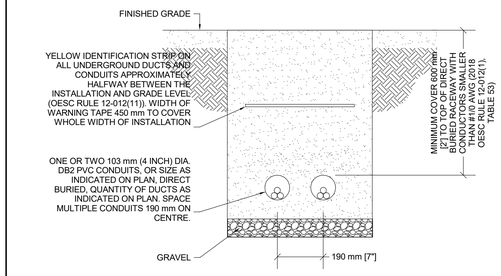



## LOW VOLTAGE (BELOW 750 VOLT) DUCT BANK SECTION

NOTES:

1. DUCT BANK TO BE IN COMPLIANCE WITH 2021 ONTARIO ELECTRICAL SAFETY CODE (OESC), DIAGRAM D11, DETAIL 4, OR LATEST EDITION. WHERE ANY CONTRADICTION EXISTS BETWEEN THIS DETAIL AND THE OESC, THE OESC DIMENSIONS GOVERN.
2. DUCT BANK TO BE INSPECTED PRIOR TO POURING OF CONCRETE AND PRIOR TO BACKFILL. COORDINATE WITH AUTHORITY HAVING JURISDICTION AND RECEIVE ALL NECESSARY APPROVALS.
3. AMPACITY OF 3/PHASE COPPER 3-PHASE + NEUTRAL + GROUND FEEDER BASED ON 2021 OESC TABLES LISTED BELOW, LOWER OF TWO VALUES (LESS APPLICABLE VOLTAGE DROP):
   3.1. TABLE D11A, "4/PHASE DETAIL 4", SIZE 350 MCM: 3 x 310 AMPS = 930 AMPS.
   3.2. TABLE 2, SIZE SIZE 350 MCM: 3 x 299 AMPS = 897 AMPS.
4. ALTERNATE DUCT BANK CONFIGURATION MAY ONLY BE CONSIDERED BY THE CONSULTANT IF THE SAME FEEDER METHODOLOGY ABOVE IS CONSIDERED, OR AN AMPACITY CALCULATION IS PROVIDED IN ACCORDANCE WITH IEEE 835.
5. GREATER DEPTH THAN THE NOTED DIMENSION WILL RESULT IN A DECREASE IN THE DUCT BANK AMPACITY. REDUCTION IN THE DEPTH REQUIRES COORDINATION WITH OESC TABLE 53.
6. CONDUIT FILL IN ACCORDANCE WITH 2021 OESC RULE 12-910.

3 2WX1H X 4IN CONCRETE ENCASED DUCT BANK
SCALE: N.T.S

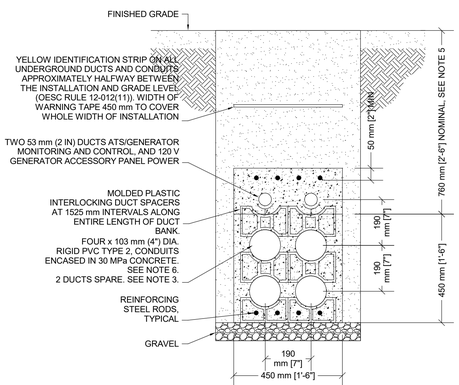



## DIRECT BURIED 2-DUCT RACEWAY SECTION, 750 V OR LESS

NOTES:

1. METRIC DIMENSIONS GOVERN.
2. DIRECT BURIED RACEWAY DUCTS TO BE IN COMPLIANCE WITH 2021 ONTARIO ELECTRICAL SAFETY CODE (OESC) TABLE 53. MINIMUM COVER DEPTH MAY BE REDUCED BASED ON CRITERIA DESCRIBED IN TABLE 53.
3. DIRECT BURIED RACEWAY DUCTS TO BE INSPECTED PRIOR BACKFILL. COORDINATE WITH AUTHORITY HAVING JURISDICTION (ESA) AND RECEIVE ALL NECESSARY APPROVALS.
4. THIS DETAIL DOES NOT APPLY WHERE CONDUCTOR SIZE IS #1/0 OR GREATER IN A DIRECT BURIED RACEWAY. PROVIDE AN AMPACITY CALCULATION IN ACCORDANCE WITH IEEE 835.

4 2WX1H X 4IN DIRECT BURIED BRANCH CIRCUIT DUCTS
SCALE: N.T.S

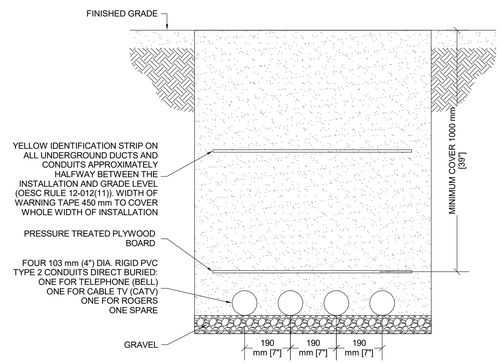



## LOW VOLTAGE (BELOW 750 VOLT) GENERATOR DUCT BANK SECTION

NOTES:

1. DUCT BANK TO BE IN COMPLIANCE WITH 2021 ONTARIO ELECTRICAL SAFETY CODE (OESC), DIAGRAM D11, DETAIL 2, OR LATEST EDITION. WHERE ANY CONTRADICTION EXISTS BETWEEN THIS DETAIL AND THE OESC, THE OESC DIMENSIONS GOVERN.
2. DUCT BANK TO BE INSPECTED PRIOR TO POURING OF CONCRETE AND PRIOR TO BACKFILL. COORDINATE WITH AUTHORITY HAVING JURISDICTION AND RECEIVE ALL NECESSARY APPROVALS.
3. PROVIDE 2/PHASE 550 A FEEDER TO SUIT GENERATOR BREAKER, AND RETAIN THE BOTTOM TWO DUCTS AS SPARE (C/W PULL STRING) FOR FUTURE GENERATOR UPGRADE. AMPACITY OF COPPER 3-PHASE + NEUTRAL + GROUND FEEDER BASED ON 2021 OESC TABLES LISTED BELOW, LOWER OF TWO VALUES (LESS APPLICABLE VOLTAGE DROP):
   3.1. TABLE D11A, "4/PHASE DETAIL 4", SIZE 350 MCM: 2 x 299 AMPS = 598 AMPS.
   3.2. TABLE 2, SIZE 350 MCM: 2 x 310 AMPS = 610 AMPS.
4. ALTERNATE DUCT BANK CONFIGURATION MAY ONLY BE CONSIDERED BY THE CONSULTANT IF THE SAME FEEDER METHODOLOGY ABOVE IS CONSIDERED, OR AN AMPACITY CALCULATION IS PROVIDED IN ACCORDANCE WITH IEEE 835.
5. GREATER DEPTH THAN THE NOTED DIMENSION WILL RESULT IN A DECREASE IN THE DUCT BANK AMPACITY. REDUCTION IN THE DEPTH REQUIRES COORDINATION WITH OESC TABLE 53.
6. CONDUIT FILL IN ACCORDANCE WITH 2021 OESC RULE 12-910.
7. UPPER 53 mm DUCTS (120 VOLT ACCESSORIES, AND MONITORING/CONTROL, LOW VOLTAGE) INSTALLATION PER OESC RULE 12-012(3)(d).

5 2WX2H X 4IN CONCRETE ENCASED GENERATOR DUCT BANK
SCALE: N.T.S




NOTES:

## DIRECT BURIED COMM DUCTS

1. METRIC DIMENSIONS GOVERN.
2. DIRECT BURIED COMM DUCTS TO BE INSPECTED PRIOR TO BACKFILL. COORDINATE WITH ELECTRICAL SAFETY AUTHORITY INSPECTOR, AND COMMUNICATIONS UTILITIES PROVIDERS (BELL, CABLE TV, ETC.) AND RECEIVE ALL NECESSARY APPROVALS.

6 UNDERGROUND COMMUNICATIONS FOUR DUCTS
SCALE: N.T.S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QUASAR CONSULTING GROUP
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TEL: 905-507-0800
WEB: WWW.QUASARCG.COM



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SEALS

| NO. | ISSUES/REVISIONS | DATE |
|---|---|---|
| 8 | ISSUED FOR TENDER | 2024-05-01 |
| 7 | ISSUED FOR TENDER | 2024-04-29 |
| 6 | ISSUED FOR TENDER REVIEW | 2024-03-08 |
| 5 | ISSUED FOR PERMIT | 2024-01-24 |
| 4 | ISSUED FOR 99% CD | 2024-01-19 |
| 3 | ALECTRA COORDINATION | 2023-12-18 |
| 2 | ISSUED FOR DESIGN DEVELOPMENT | 2023-10-06 |
| 1 | ALECTRA SERVICE REQUEST | 2023-08-11 |

DRAWING TITLE:

ELECTRICAL SITE DETAILS

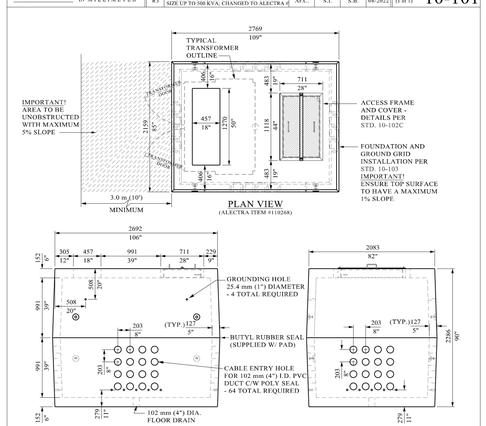
| | |
|---|---|
| ISSUE DATE: | 2024-05-01 |
| DRAWN BY: MS | CHECKED BY: CB |
| PROJECT NO.: CM-22-281 | SCALE: As indicated |
| DRAWING NO.: | REVISION: |

E-004 | 8

PLOT DATE: 2024-05-01 08:51 :]

# METRIC LINEAR DIMENSIONS IN MILLIMETER — 10-101

| No. | Revision | Drawn by | Checked by | Approvd by | Date | Std. No. |
|---|---|---|---|---|---|---|
| R3 | TITLE REVISED; REDUCED TRANSFORMER SIZE UP TO 500 KVA; CHANGED TO ALECTRA | AC. | S.I. | S.B. | 08/2022 | (1 of 1) |




| BROOKLIN CONCRETE PRODUCTS | UTILICON |
|---|---|
| ( BCP - 104SM ) | ( UV85109MM ) |
| NEWMARKET | BRADFORD |
| Tel. No. 1-888-407-6443 | Tel. No. (905) 778-8400 |

NOTES:
1. CONCRETE SHALL BE MINIMUM 30 MPa, AIR-ENTRAINED AND LOW SLUMP
2. TO BE CONSTRUCTED AS PER CSA A23.1 AND TESTED AS PER CSA A23.2 (LATEST EDITION)
3. CABLE OPENING ON TOP AND SIDE CABLE ENTRY HOLES SHALL HAVE SMOOTH-FINISHED SURFACES AND EDGES
4. HOLES MAY SLIGHTLY VARY FROM ONE MANUFACTURER TO ANOTHER
5. APPROXIMATE WEIGHT (TOTAL) = 9,680 kg / 21,300 lbs

| Construction Standard Certificate of Approval | ORIGINAL | Title: |
|---|---|---|
| The Construction Standard meets the safety requirements of Section 4 of Regulation 22/04 | Drawn by: A.C. | TWO PIECE PRE-CAST CONCRETE FOUNDATION FOR 3-PHASE PAD MOUNTED TRANSFORMER, UP TO 500 kVA UP TO 27.6/16 kV |
| Shareez Ali — Name — 01/2023 — Date | Checked by: G.S. | |
| P.Eng., PMP — Signature & Professional Designation | Approved by: D.C. | |
| | Date: Mar-2004 | |

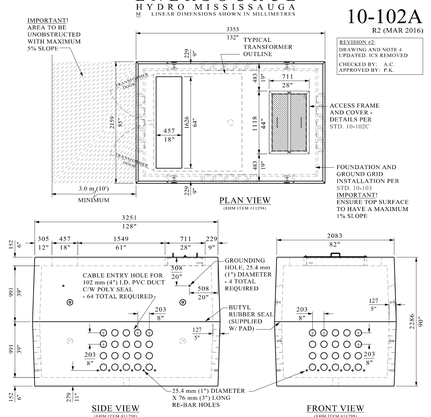
enersource | alectra utilities

# ENERSOURCE HYDRO MISSISSAUGA — 10-102A

M LINEAR DIMENSIONS SHOWN IN MILLIMETRES

R2 (MAR 2016)

REVISION #2: DRAWING AND NOTE 4 UPDATED. ICS REMOVED
CHECKED BY: A.C. APPROVED BY: P.K.




| BROOKLIN CONCRETE PRODUCTS | UTILICON |
|---|---|
| ( BCP - 115SM ) | ( UV85132MM ) |
| NEWMARKET | BRADFORD |
| Tel. No. 1-888-407-6443 | Tel. No. (905) 778-8400 |

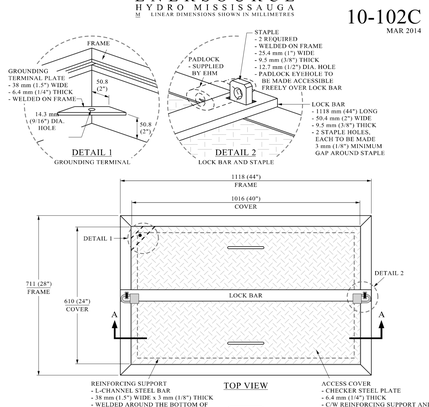
NOTES:
1. CONCRETE SHALL BE MINIMUM 30 MPa, AIR-ENTRAINED AND LOW SLUMP
2. TO BE CONSTRUCTED AS PER CSA A23.1 AND TESTED AS PER CSA A23.2 (LATEST EDITION)
3. CABLE OPENING ON TOP AND SIDE CABLE ENTRY HOLES SHALL HAVE SMOOTH-FINISHED SURFACES AND EDGES
4. HOLES MAY SLIGHTLY VARY FROM ONE MANUFACTURER TO ANOTHER
5. APPROXIMATE WEIGHT (TOTAL) = 13,160 kg / 29,000 lbs

| ORIGINAL: | TWO PIECE PRE-CAST CONCRETE FOUNDATION FOR 3-PHASE PAD MOUNTED TRANSFORMER, 750 kVA TO 3000 kVA 13.8 kV AND 27.6 GrdY/16000 kV | IDE KITS: |
|---|---|---|
| CHECKED BY: G.S. | | R10-1024-4TDN-3PH-3000 KVA (10451) |
| APPROVED BY: D.C. | | |
| DATE : Mar-2004 | | |

# ENERSOURCE HYDRO MISSISSAUGA — 10-102C

M LINEAR DIMENSIONS SHOWN IN MILLIMETRES

MAR 2014




NOTES:
- FRAME SHALL BE MADE OF MINIMUM 6.4 mm (1/4") THICK STEEL
- WELDING AS PER CSA W47.1 (LATEST EDITION)
- ALL POINTS STEEL TO HAVE SMOOTH AND FREE OF SHARP EDGES
- AFTER FABRICATION, HOT DIP GALVANIZED AS PER CSA G164 (LATEST EDITION)
- PRE-CAST CONCRETE FOUNDATION AS PER STD. 10-102 AND 10-102A
- THIS DRAWING SUPERSEDES STD. 37-224C REVISION 2, ISSUED ON FEB. 2010.

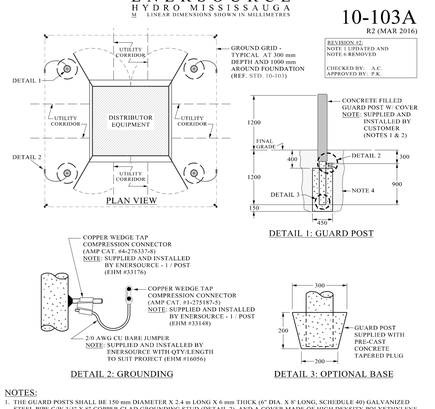
| ORIGINAL: | ACCESS FRAME AND COVER FOR PAD-MOUNTED, 3-PHASE TRANSFORMER FOUNDATION | IDE KITS: |
|---|---|---|
| CHECKED BY: A.H. | | N/A |
| APPROVED BY: R.B. | | |
| DATE : Mar-2014 | | |

# ENERSOURCE HYDRO MISSISSAUGA — 10-103A

M LINEAR DIMENSIONS SHOWN IN MILLIMETRES

R2 (MAR 2016)

REVISION #2: NOTE 1 UPDATED AND NOTE 4 REMOVED
CHECKED BY: A.C. APPROVED BY: P.K.

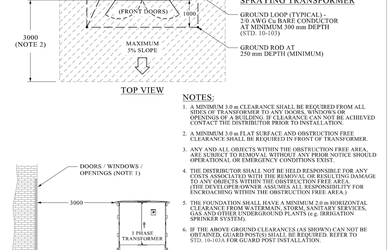



NOTES:
1. THE GUARD POSTS SHALL BE 150 mm DIAMETER X 2.4 m LONG X 6 mm THICK (6" DIA. X 8' LONG, SCHEDULE 40) GALVANIZED STEEL PIPE C/W 3/4" X 8" COPPER CLAD GROUNDING STUD (DETAIL 2), AND A COVER MADE OF HIGH DENSITY POLYETYLENE (HDPE) WITH BUILT-IN ULTRAVIOLET AND HIGH IMPACT RESISTANCE AND COLOUR IN SAFETY YELLOW.
2. THE LOCATION AND NUMBER OF GUARD POSTS SHALL BE DETERMINED AND CONFIRMED BY ENERSOURCE'S FIELD INSPECTOR AND SHALL MEET THE FOLLOWING CRITERIA:
   2.1. ALLOW EQUIPMENT DOORS (INCLUDING SUB-COMPARTMENT'S DOORS) TO BE OPENED THROUGH THEIR FULL RANGE.
   2.2. ALLOW ENERSOURCE'S AUTHORIZED PERSONNEL UNIMPEDED ACCESS TO THE EQUIPMENT AND PERMIT SAFE OPERATION OF THE EQUIPMENT.
   2.3. ALLOW A 500 mm MINIMUM CLEARANCE BETWEEN THE GUARD POST'S CONCRETE ENCASEMENT AND THE UTILITY CORRIDOR.
   2.4. ALLOW A 100 mm MINIMUM CLEARANCE BETWEEN THE GUARD POST'S CONCRETE ENCASEMENT AND THE GROUND GRID.
3. THE GUARD POSTS SHALL BE ENCASED AND FILLED WITH CONCRETE (30 MPa) AS PER DETAIL 1, OR TO BE SUPPLIED WITH PRE-CAST CONCRETE TAPERED PLUG (DETAIL 3).
4. WHERE GUARD POSTS ARE INSTALLED IN BACKFILL OR DISTURBED EARTH, ENSURE BACKFILL MATERIAL IS THOROUGHLY COMPACTED
5. ALL GUARD POSTS SHALL BE BONDED TO GROUND GRID AS PER DETAIL 2.

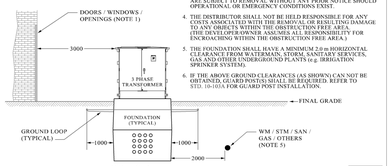
| ORIGINAL: | TYPICAL GUARD POST INSTALLATION | IDE KITS: |
|---|---|---|
| CHECKED BY: G.S. | | R130-103A-AMPACT-1POST (14375) R130-103A-CADWELD-1POST (14376) |
| APPROVED BY: D.C. | | Note: 1 Kit / Post |
| DATE : Mar-2004 | | |

# METRIC LINEAR DIMENSIONS IN MILLIMETER — 10-103C

| No. | Revision | Drawn by | Checked by | Approvd by | Date | Std. No. |
|---|---|---|---|---|---|---|
| R3 | OBSTRUCTION FREE AREA ADJUSTED SIDES & BACK CLEARANCES TO 2000mm | AC. | P.D. | A.F. | 01/2023 | (1 of 1) |




NOTES:
1. A MINIMUM 1.0 m CLEARANCE SHALL BE REQUIRED FROM ALL SIDES OF TRANSFORMER TO ANY DOORS, WINDOWS OR OPENINGS OF A BUILDING. IF CLEARANCE CAN NOT BE ACHIEVED CONTACT THE DISTRIBUTOR PRIOR TO INSTALLATION.
2. A MINIMUM 3.0 m FLAT SURFACE AND OBSTRUCTION FREE CLEARANCE SHALL BE REQUIRED IN FRONT OF TRANSFORMER.
3. ANY AND ALL OBJECTS WITHIN THE OBSTRUCTION FREE AREA, SHALL BE REMOVABLE OR PORTABLE, WITHOUT THE USE OF FORCE SHOULD OPERATIONAL OR EMERGENCY CONDITIONS EXIST.
4. THE DISTRIBUTOR SHALL NOT BE HELD RESPONSIBLE FOR ANY COSTS ASSOCIATED WITH THE REMOVAL OR RESULTING DAMAGE TO ANY OBJECTS WITHIN THE OBSTRUCTION FREE AREA, (THE DEVELOPER/OWNER ASSUMES ALL RESPONSIBILITY FOR ENCROACHING WITHIN THE OBSTRUCTION FREE AREA.)
5. THE FOUNDATION SHALL HAVE A MINIMUM 2.0 m HORIZONTAL CLEARANCE FROM WATERMAIN, STORM, SANITARY SERVICES, GAS AND OTHER UNDERGROUND PLANTS (e.g. IRRIGATION SPRINKER SYSTEMS).
6. IF THE ABOVE GROUND CLEARANCES (AS SHOWN) CAN NOT BE OBTAINED, GUARD POST(S) SHALL BE REQUIRED. REFER TO STD. 10-103A FOR GUARD POST INSTALLATION.




JDE KITS: N/A

| Construction Standard Certificate of Approval | ORIGINAL | Title: |
|---|---|---|
| The Construction Standard meets the safety requirements of Section 4 of Regulation 22/04 | Drawn by: A.C. | THREE PHASE PAD-MOUNTED TRANSFORMER CLEARANCES |
| Shareez Ali — Name — 01/2023 — Date | Checked by: G.S. | |
| P.Eng., PMP — Signature & Professional Designation | Approved by: D.C. | |
| | Date: Mar-2004 | |

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# ENERSOURCE HYDRO MISSISSAUGA — 10-107

M LINEAR DIMENSIONS SHOWN IN MILLIMETRES

R2 (JUN 2015)

REVISION 2: REDRAWN TO SCALE
CHECKED BY: G.S. APPROVED BY: R.B.

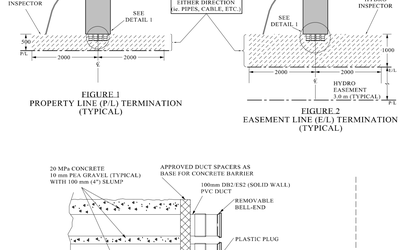
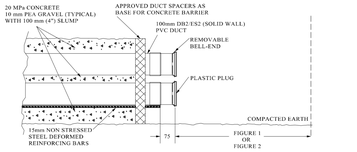



FIGURE 1
PROPERTY LINE (P/L) TERMINATION (TYPICAL)

FIGURE 2
EASEMENT LINE (E/L) TERMINATION (TYPICAL)




DETAIL 1
100 mm ( 4") DUCTS EXTENSION

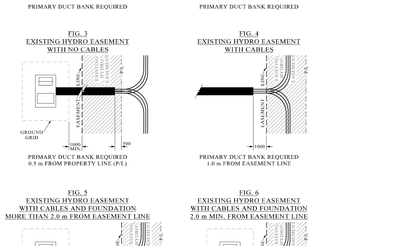
| ORIGINAL: | TERMINATION OF DUCT BANK AT PROPERTY / EASEMENT LINE | IDE KITS: |
|---|---|---|
| CHECKED BY: M.H. | | N/A |
| APPROVED BY: D.C. | | |
| DATE : Mar-2004 | | |

# ENERSOURCE HYDRO MISSISSAUGA — 10-107A

M LINEAR DIMENSIONS SHOWN IN MILLIMETRES

R2 (MAR 2016)

REVISION 1: FONT CHANGED
CHECKED BY: G.S. APPROVED BY: P.K.

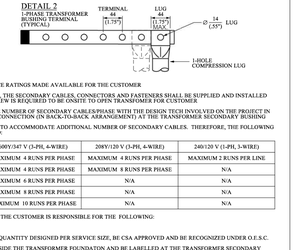



| ORIGINAL: | TYPICAL DUCT BANK TERMINATION AT PROPERTY/EASEMENT LINE 2.4/4.16 kV TO 16/27.6 kV | IDE KITS: |
|---|---|---|
| CHECKED BY: M.H. | | N/A |
| APPROVED BY: D.C. | | |
| DATE : Jan-2001 | | |

# METRIC LINEAR DIMENSIONS IN MILLIMETER — 10-128

| No. | Revision | Drawn by | Checked by | Approvd by | Date | Std. No. |
|---|---|---|---|---|---|---|
| R1 | 1-PHASE SERVICES ADDED | AC. | P.D. | A.F. | 08/2020 | (1 of 1) |

| SERVICE SIZE | |
|---|---|
| 1-PHASE, 3-WIRE | 3-PHASE, 4-WIRE |
| 200 A | 200 A |
| 400 A | 400 A |
| 600 A | 600 A |
| | 800 A |
| | 1000 A |
| | 1200 A |
| | 1600 A |
| | 2000 A |
| | 2500 A |
| | 3000 A |




NOTES:
1. ABOVE IS A LIST OF SECONDARY SERVICE RATINGS MADE AVAILABLE FOR THE CUSTOMER
2. BASED ON THE CONDITIONS OF SERVICE, THE SECONDARY CABLES, CONNECTORS AND FASTENERS SHALL BE SUPPLIED AND INSTALLED BY THE CUSTOMER. ALECTRA LINES CREW IS REQUIRED TO BE ONSITE TO OPEN TRANSFORMER FOR CUSTOMER
3. THE CUSTOMER MUST COORDINATE THE NUMBER OF SECONDARY CABLES/PHASE WITH THE DESIGN TECH INVOLVED ON THE PROJECT IN ORDER NOT TO EXCEED THE ALLOWED CONNECTION (IN BACK-TO-BACK ARRANGEMENT) AT THE TRANSFORMER SECONDARY BUSHING

   BUSHING EXTENDER IS NOT PERMITTED TO ACCOMMODATE ADDITIONAL NUMBER OF SECONDARY CABLES. THEREFORE, THE FOLLOWING REQUIREMENTS ARE TO BE CONSIDERED:

| TRANSFORMER SIZE, kVA | 600Y/347 V (3-PH, 4-WIRE) | 208Y/120 V (3-PH, 4-WIRE) | 240/120 V (1-PH, 3-WIRE) |
|---|---|---|---|
| 75 - 300 (3-PH), 75 - 167 (1-PH) | MAXIMUM 4 RUNS PER PHASE | MAXIMUM 4 RUNS PER PHASE | MAXIMUM 2 RUNS PER LINE |
| 500 | MAXIMUM 4 RUNS PER PHASE | MAXIMUM 8 RUNS PER PHASE | N/A |
| 750 | MAXIMUM 6 RUNS PER PHASE | N/A | N/A |
| 1000 - 2500 | MAXIMUM 8 RUNS PER PHASE | N/A | N/A |
| 3000 | MAXIMUM 10 RUNS PER PHASE | N/A | N/A |

4. FOR PROPER ELECTRICAL CONNECTION, THE CUSTOMER IS RESPONSIBLE FOR THE FOLLOWING:
   a) SECONDARY CABLES
      i) SHALL BE OF A TYPE, SIZE AND QUANTITY DESIGNED PER SERVICE SIZE, BE CSA APPROVED AND BE RECOGNIZED UNDER O.E.S.C.
      ii) SHALL BE PROPERLY COILED INSIDE THE TRANSFORMER FOUNDATION AND BE LABELLED AT THE TRANSFORMER SECONDARY BUSHINGS (i.e. A/B/C OR R/W/B FOR 3-PHASE AND L1/L2/L0 FOR 1-PHASE OR EQUIVALENT)
      iii) SHALL BE PROPERLY TRAINED AND TERMINATED TO MINIMIZE THE FORCE EXERTED ONTO TRANSFORMER SECONDARY BUSHINGS
   b) CONNECTORS
      i) SHALL BE OF A TYPE MATCHING THE CONDUCTOR (i.e. COPPER TO COPPER, ALUMINUM TO ALUMINUM), HIGH CURRENT RATED AND TIN PLATED
      ii) SHALL BE A COMPRESSION STYLE SECONDARY LUGS COMPATIBLE WITH CSA DIES FOR HEX-STYLE CRIMPING
      iii) SHALL BE A 1-HOLE/ 2-HOLE N.E.M.A. SPADE MATCHING THE TRANSFORMER SECONDARY BUSHING TERMINAL ARRANGEMENT (SEE DETAIL 1 AND 2)
   c) FASTENERS
      i) SHALL BE OF A SIZE 1/2" HEX BOLT AND ASSOCIATED HARDWARE (i.e. NUT, FLAT WASHER AND BELLVILLE WASHER)
      ii) SHALL BE OF A TYPE AND LENGTH DESIGNED FOR ELECTRICAL (HIGH CURRENT) CONNECTION (REF. STD. 15-182)

| Certificate of Approval | ORIGINAL | Title: |
|---|---|---|
| The installation work covered by this standard meets the safety requirements of Section 4 of Regulation 22/04 | Drawn by: AC. | INDUSTRIAL/COMMERCIAL SECONDARY SERVICE REQUIREMENTS (UP TO 3000 AMP SERVICE) |
| Shareez Ali — Name — 08/2020 — Date | Checked by: P.D. | |
| P. Eng., PMP — Signature & Professional Designation | Approved by: A.F. | |
| | Date: Jul-2020 | |

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MISSISSAUGA

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TEL: 905-507-0800
WEB: WWW.QUASARCG.COM



DRAWINGS ARE NOT TO BE SCALED.

CONTRACTOR MUST VERIFY ALL DIMENSIONS ON THE JOB AND REPORT ANY DISCREPANCY TO ARCHITECTS BEFORE PROCEEDING WITH WORK.

ALL DRAWINGS AND SPECIFICATIONS ARE THE PROPERTY OF THE ARCHITECT AND MUST BE RETURNED AT THE COMPLETION OF THE WORK.


SEALS

| NO. | ISSUES/REVISIONS | DATE |
|---|---|---|
| 8 | ISSUED FOR TENDER | 2024-05-01 |
| 7 | ISSUED FOR TENDER | 2024-04-29 |
| 6 | ISSUED FOR TENDER REVIEW | 2024-03-08 |
| 5 | ISSUED FOR PERMIT | 2024-01-24 |
| 4 | ISSUED FOR 99% CD | 2024-01-19 |
| 3 | ALECTRA COORDINATION | 2023-12-18 |
| 2 | ISSUED FOR DESIGN DEVELOPMENT | 2023-10-06 |
| 1 | ALECTRA SERVICE REQUEST | 2023-08-11 |

DRAWING TITLE:

ELECTRICAL UTILITY DETAILS I

ISSUE DATE: 2024-05-01

DRAWN BY: MS CHECKED BY: CB

PROJECT NO.: CM-22-281 SCALE:

DRAWING NO.: E-005 REVISION: 8


{ PLOT DATE: 2024/05/1 08:54 }

| METRIC LINEAR DIMENSIONS IN MILLIMETER | No. | Revision | Drawn by | Checked by | Apprvd by | Date | Std. No (1 of 2) 37-2011 |
|---|---|---|---|---|---|---|---|
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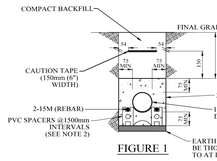


FIGURE 1

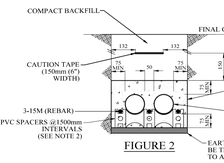


FIGURE 2

NOTES:

1. THE CAUTION TAPE SHALL BE A RED PLASTIC, 152 mm (6") WIDE x 0.1 mm (0.004") THICK C/W BLACK BOLD LETTERING "CAUTION BURIED ELECTRIC LINE BELOW" (ALECTRA ITEM #990242).
2. THE APPROVED 3 & 4-POSITION DUCT SPACERS ARE ROYAL CATALOGUE #DMB42233 & #DMB42234 (ALECTRA ITEMS #110654 & 110655). THE SPACERS SHALL BE PLACED AT 1500mm INTERVALS AND CUT TO SUIT THE DESIGN.
3. FOR GLUING DUCT JOINTS AND BENDS USE APPROVED S40 CEMENT AT LEAST 30 MINUTES PRIOR TO POURING CONCRETE.
4. DUCTS SHALL BE ENCASED IN 20 MPa CONCRETE WITH 10-20mm PEA GRAVEL AND SLUMP NOT TO EXCEED 100mm (4") UNDER STANDARD SLUMP TEST.
5. DUCT BANKS ALONG BOULEVARDS OR ACROSS ROADS SHALL HAVE BACKFILL MATERIALS AND TRENCH RESTORATION TO CONFORM WITH THE MUNICIPAL OR REGIONAL AUTHORITY, AS REQUIRED.
6. ALL DUCT BANKS SHALL BE REINFORCED WITH 15M(16mm) NON-PRESTRESSED DEFORMED STEEL REINFORCING BARS GRADE 400 (YIELD STRESS OF 413 MPa) AND CONFORM TO CSA G30.12 (LATEST REVISION). THE NUMBER PRECEDING THE REINFORCING BARS INDICATES THE QUANTITY OF REINFORCING BARS IN THAT ROW.
7. STEEL REINFORCING BARS SHALL BE INSTALLED CONTINUOUSLY, WITH A MINIMUM OF 600mm OVERLAP AND TIED TOGETHER. THE TIE-WIRE SHALL BE ANNEALED FERROUS WIRE, AS PER CSA-G30.14, ASTM A82/A82M-07.
8. DUCTS SHALL BE A MINIMUM 900mm BELOW GRADE AND IN ACCORDANCE WITH LOCAL MUNICIPAL GUIDELINES.
9. THIS STANDARD IS NOT TO BE USED FOR HIGHWAY OR RAILWAY CROSSINGS.
10. THIS DESIGN IS APPLICABLE TO A FAIRLY GOOD UNDISTURBED SOIL-TYPE 3 OR BETTER. FOR SOIL TYPES THAT DO NOT MEET THIS REQUIREMENT APPROPRIATE GEOTECHNICAL STUDIES MUST BE COMPLETED.
11. DUCTS SHALL BE ROUTED TO AVOID RAILWAYS, UNDERGROUND STRUCTURES, CATCH BASINS AND PIPELINES.
12. TO MITIGATE DIFFERENTIAL SETTLEMENT DUE TO UNSTABLE SOILS, CONSULT CSA C22.3 NO. 7 LATEST REVISION CLAUSE A.4.5.4 FOR POSSIBLE SOLUTIONS IN ADDITION TO A GEOTECHNICAL ENGINEER'S ADVICE.
13. FOR DUCT BANKS ENTERING A BUILDING OR FOUNDATION WHERE A DIFFERENTIAL IN SETTLEMENT MAY OCCUR, THE DESIGN SHALL ENSURE PROPER SUPPORT BY ADDING RE-BARS.

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Construction Standard Certificate of Approval
This Construction Standard meets the safety requirements of Section 4 of Regulation 22/04
Shereez Ali — 09/2022
Name — Date
P. Eng., PMP
Signature & Professional Designation

ORIGINAL
Drawn by: P.D.
Checked by: A.F.
Approved by: A.I.
Date: Sept-2022

Title: TYPICAL ARRANGEMENT FOR DUCTS ENCASED IN CONCRETE FOR ONE LAYER ARRANGEMENTS (1 AND 2 DUCTS)

| METRIC LINEAR DIMENSIONS IN MILLIMETER | No. | Revision | Drawn by | Checked by | Apprvd by | Date | Std. No (2 of 2) 37-2011 |
|---|---|---|---|---|---|---|---|
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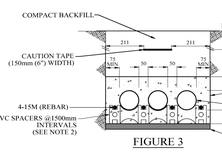


FIGURE 3

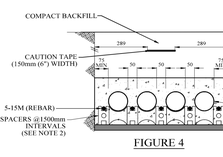


FIGURE 4

NOTES:

1. THE CAUTION TAPE SHALL BE A RED PLASTIC, 152 mm (6") WIDE x 0.1 mm (0.004") THICK C/W BLACK BOLD LETTERING "CAUTION BURIED ELECTRIC LINE BELOW" (ALECTRA ITEM #990242).
2. THE APPROVED 3 & 4-POSITION DUCT SPACERS ARE ROYAL CATALOGUE #DMB42233 & #DMB42234 (ALECTRA ITEMS #110654 & 110655). THE SPACERS SHALL BE PLACED AT 1500mm INTERVALS AND CUT TO SUIT THE DESIGN.
3. FOR GLUING DUCT JOINTS AND BENDS USE APPROVED S40 CEMENT AT LEAST 30 MINUTES PRIOR TO POURING CONCRETE.
4. DUCTS SHALL BE ENCASED IN 20 MPa CONCRETE WITH 10-20mm PEA GRAVEL AND SLUMP NOT TO EXCEED 100mm (4") UNDER STANDARD SLUMP TEST.
5. DUCT BANKS ALONG BOULEVARDS OR ACROSS ROADS SHALL HAVE BACKFILL MATERIALS AND TRENCH RESTORATION TO CONFORM WITH THE MUNICIPAL OR REGIONAL AUTHORITY, AS REQUIRED.
6. ALL DUCT BANKS SHALL BE REINFORCED WITH 15M(16mm) NON-PRESTRESSED DEFORMED STEEL REINFORCING BARS GRADE 400 (YIELD STRESS OF 413 MPa) AND CONFORM TO CSA G30.12 (LATEST REVISION). THE NUMBER PRECEDING THE REINFORCING BARS INDICATES THE QUANTITY OF REINFORCING BARS IN THAT ROW.
7. STEEL REINFORCING BARS SHALL BE INSTALLED CONTINUOUSLY, WITH A MINIMUM OF 600mm OVERLAP AND TIED TOGETHER. THE TIE-WIRE SHALL BE ANNEALED FERROUS WIRE, AS PER CSA-G30.14, ASTM A82/A82M-07.
8. DUCTS SHALL BE A MINIMUM 900mm BELOW GRADE AND IN ACCORDANCE WITH LOCAL MUNICIPAL GUIDELINES.
9. THIS STANDARD IS NOT TO BE USED FOR HIGHWAY OR RAILWAY CROSSINGS.
10. THIS DESIGN IS APPLICABLE TO A FAIRLY GOOD UNDISTURBED SOIL-TYPE 3 OR BETTER. FOR SOIL TYPES THAT DO NOT MEET THIS REQUIREMENT APPROPRIATE GEOTECHNICAL STUDIES MUST BE COMPLETED.
11. DUCTS SHALL BE ROUTED TO AVOID RAILWAYS, UNDERGROUND STRUCTURES, CATCH BASINS AND PIPELINES.
12. TO MITIGATE DIFFERENTIAL SETTLEMENT DUE TO UNSTABLE SOILS, CONSULT CSA C22.3 NO. 7 LATEST REVISION CLAUSE A.4.5.4 FOR POSSIBLE SOLUTIONS IN ADDITION TO A GEOTECHNICAL ENGINEER'S ADVICE.
13. FOR DUCT BANKS ENTERING A BUILDING OR FOUNDATION WHERE A DIFFERENTIAL IN SETTLEMENT MAY OCCUR, THE DESIGN SHALL ENSURE PROPER SUPPORT BY ADDING RE-BARS.

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Construction Standard Certificate of Approval
This Construction Standard meets the safety requirements of Section 4 of Regulation 22/04
Shereez Ali — 09/2022
Name — Date
P. Eng., PMP
Signature & Professional Designation

ORIGINAL
Drawn by: P.D.
Checked by: A.F.
Approved by: A.I.
Date: Sept-2022

Title: TYPICAL ARRANGEMENT FOR DUCTS ENCASED IN CONCRETE FOR ONE LAYER ARRANGEMENTS (3 AND 4 DUCTS)

| METRIC LINEAR DIMENSIONS IN MILLIMETER | No. | Revision | Drawn by | Checked by | Apprvd by | Date | Std. No (1 of 4) 37-2012 |
|---|---|---|---|---|---|---|---|
| | - | - | - | - | - | - | |

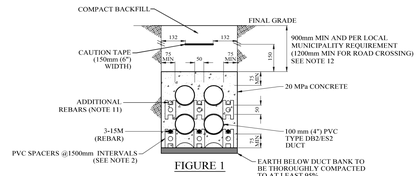


FIGURE 1

NOTES:

1. THE CAUTION TAPE SHALL BE A RED PLASTIC, 152 mm (6") WIDE x 0.1 mm (0.004") THICK C/W BLACK BOLD LETTERING "CAUTION BURIED ELECTRIC LINE BELOW" (ALECTRA ITEM #990242).
2. THE APPROVED 3 & 4-POSITION DUCT SPACERS ARE ROYAL CATALOGUE #DMB42233 & #DMB42234 (ALECTRA ITEMS #110654 & 110655). THE SPACERS SHALL BE PLACED AT 1500mm INTERVALS AND CUT TO SUIT THE DESIGN.
3. FOR GLUING DUCT JOINTS AND BENDS USE APPROVED S40 CEMENT AT LEAST 30 MINUTES PRIOR TO POURING CONCRETE.
4. DUCTS SHALL BE ENCASED IN 20 MPa CONCRETE WITH 10-20mm PEA GRAVEL AND SLUMP NOT TO EXCEED 100mm (4") UNDER STANDARD SLUMP TEST.
5. DUCT BANKS ALONG BOULEVARDS OR ACROSS ROADS SHALL HAVE BACKFILL MATERIALS AND TRENCH RESTORATION TO CONFORM WITH THE MUNICIPAL OR REGIONAL AUTHORITY, AS REQUIRED.
6. ALL DUCT BANKS SHALL BE REINFORCED WITH 15M(16mm) NON-PRESTRESSED DEFORMED STEEL REINFORCING BARS GRADE 400 (YIELD STRESS OF 413 MPa) AND CONFORM TO CSA G30.12 (LATEST REVISION). THE NUMBER PRECEDING THE REINFORCING BARS INDICATES THE QUANTITY OF REINFORCING BARS IN THAT ROW.
7. STEEL REINFORCING BARS SHALL BE INSTALLED CONTINUOUSLY, WITH A MINIMUM OF 600mm OVERLAP AND TIED TOGETHER. THE TIE-WIRE SHALL BE ANNEALED FERROUS WIRE, AS PER CSA-G30.14, ASTM A82/A82M-07.
8. DUCTS SHALL BE A MINIMUM 900mm BELOW GRADE AND IN ACCORDANCE WITH LOCAL MUNICIPAL GUIDELINES.
9. THIS STANDARD IS NOT TO BE USED FOR HIGHWAY OR RAILWAY CROSSINGS.
10. THIS DESIGN IS APPLICABLE TO A FAIRLY GOOD UNDISTURBED SOIL-TYPE 3 OR BETTER. FOR SOIL TYPES THAT DO NOT MEET THIS REQUIREMENT APPROPRIATE GEOTECHNICAL STUDIES MUST BE COMPLETED.
11. FOR ROAD CROSSING DESIGNS REBAR SHALL BE USED IN THE TOP MOST SPACER IN ADDITION TO THE REBAR SHOWN ABOVE IN THE BOTTOM MOST SPACER.
12. DUCTS SHALL BE ROUTED TO AVOID RAILWAYS, UNDERGROUND STRUCTURES, CATCH BASINS AND PIPELINES.
13. TO MITIGATE DIFFERENTIAL SETTLEMENT DUE TO UNSTABLE SOILS, CONSULT CSA C22.3 NO. 7 LATEST REVISION CLAUSE A.4.5.4 FOR POSSIBLE SOLUTIONS IN ADDITION TO A GEOTECHNICAL ENGINEER'S ADVICE.
14. FOR DUCT BANKS ENTERING A BUILDING OR FOUNDATION WHERE A DIFFERENTIAL IN SETTLEMENT MAY OCCUR, THE DESIGN SHALL ENSURE PROPER SUPPORT BY ADDING RE-BARS.

alectra utilities

Construction Standard Certificate of Approval
This Construction Standard meets the safety requirements of Section 4 of Regulation 22/04
Shereez Ali — 09/2022
Name — Date
P. Eng., PMP
Signature & Professional Designation

ORIGINAL
Drawn by: P.D.
Checked by: A.F.
Approved by: A.I.
Date: Sept-2022

Title: TYPICAL ARRANGEMENT FOR DUCTS ENCASED IN CONCRETE FOR TWO LAYER ARRANGEMENTS (2 x 2 DUCTS)

| METRIC LINEAR DIMENSIONS IN MILLIMETRES | No. | Revision | Drawn by | Checked by | Apprvd by | Date | Std. No. (1 of 3) 37-2010 |
|---|---|---|---|---|---|---|---|
| | - | - | - | - | - | - | |

**1. GENERAL**

This section covers the typical arrangement, installation and construction of Concrete Encased Duct Banks

All standards in this section are shown with minimum acceptable dimensions and materials. Underground system should be designed and constructed to provide adequate reliability and safety. Supply systems shall have ampacity adequate to operate under normal and emergency conditions without posing a risk to nearby facilities.

**CONCRETE ENCASED DUCT BANK SYSTEM**

Concrete encased duct bank installation provides mechanical protection to the underground cables from external forces. The external mechanical forces, that may damage the insulation of the cable, may consist of, but are not limited to water, insects/animals, and tree roots or mechanical "dig in" incidents. Such damages may lead to ground faults, outages, and other undesirable system conditions.

Duct banks are also installed to allow for less costly and easier conductor replacement. It is possible to replace a damaged, aged, or substandard cable in a duct bank with considerably less excavation. Alectra's requirements for installing conductors in conduits or ducts, depend on a number of project factors which may include:

- Where conductors are located in a high-traffic area.
- Where conductors are installed in an area that is likely to have future excavations taking place.
- Where the conductor is crossing a roadway, highway or a railway.
- Where the conductor is of high significance (i.e. primary egress from a transformer station, key customer etc.).

**2. Design Criteria**

2.1 Deviations on a duct run shall be accomplished by a gradual sweep. All 90-degree changes in horizontal and vertical directions shall be made of 1500 mm (60") radius elbows. The number of 90 degree bends shall be determined by pulling calculations.

2.2 The duct banks shall have a minimum cover of 900 mm (36") throughout the top of the concrete shell and have a minimum slope of 1% away from the building. If the slope cannot be accomplished as described, please contact Alectra Utilities' Designs Department to discuss alternatives (i.e. drain pit).

2.3 The duct bank shall be terminated below future soft landscaped area free of trees, bushes, or shrubs, at the location given by Alectra Utilities and be 1.0 m away from the property line or easement line. The area within 1.5 m from the face of the duct bank on either side shall be free of any foreign objects (i.e. cables, pipes, shoring etc.) within a property line. There shall be no object or structures on top or below of the duct bank within the easement area. This area shall be reserved for Alectra Utilities' trenching, installation of cables and/or cable splices. The ductbank termination at property or easement line shall have maximum cover of 1.2 m.

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Name — Date
P. Eng., PMP
Signature & Professional Designation

ORIGINAL
Drawn by: S.B.
Checked by: A.I.
Approved by: A.F.
Date: Sept-2022

CONCRETE ENCASED DUCTBANK GENERAL REQUIREMENTS

| METRIC LINEAR DIMENSIONS IN MILLIMETRES | No. | Revision | Drawn by | Checked by | Apprvd by | Date | Std. No. (2 of 3) 37-2010 |
|---|---|---|---|---|---|---|---|
| | - | - | - | - | - | - | |

**3. Duct Bank Construction**

3.1 The ducts shall be 100 mm (4") diameter, PVC type DB2/ES2 (Solid Wall) and be CSA approved.

3.2 All ducts at the face of the duct bank, at property or easement line locations, shall be terminated with bell ends, capped with plastic plugs and to protrude 150 mm (6") from concrete encasement for Alectra Utilities' continuation (confirm with Alectra Utilities' Inspector).

3.3 All ducts at hydro equipment foundations and vault trenches shall be terminated with flush mounted bell ends.

3.4 All ducts at junction box and switchboard's wireway shall be terminated with bell ends. The bell ends shall have 1/2" spacing over concrete shell.

3.5 Where reinforcing bars enter buildings (i.e. transformer vault), bars are to enter full thickness of wall opening.

3.6 In a situation where the duct bank is not poured in one continuous run (i.e. driveway length, half & half), the reinforcing bars shall be made continuous from one duct bank to the other (with a minimum 1.0 m overlap).

3.7 All ducts shall be mandrelled, be cleaned after installation, and be equipped with polypropylene rope - minimum 3/8" diameter for service size up to 3000 AMP. In some installation, subject to the discretion of Alectra Utilities Inspector, it may require 3/4" mule tape with a minimum tensile strength of 2500 lbs.

3.8 All duct ends that require immediate covers shall be marked with a 2" x 4" x 6" stake at property line for later identification by Alectra Utilities.

3.9 Pouring the concrete is not permitted if the dry air temperature is less than minus five degrees Celsius (-5˚) or more than thirty degrees Celsius (30˚) unless otherwise instructed by an Alectra representative.

3.10 Concrete curing shall be as per CSA-A23.1. If the concrete will be poured during the winter season, the contractor shall submit for approval a proposal to keep the concrete temperature, during curing time, to be above ten degrees Celsius (10˚) for the first 72 hours of concrete pouring.

3.11 If the vertical distance between the concrete shot and the bottom of the duct bank exceeds 1.5 m; it is recommended to use a concrete pump to avoid any concrete segregation unless otherwise instructed by an Alectra representative.

3.12 Due to possible presence of groundwater, the contractor may require the use of construction methods to maintain the hole dry during excavation and setting of the concrete which may include, but not limited to, casing the hole, drilling fluids, and/or dewatering.

3.13 Use a concrete vibrator during concrete pouring as per concrete vibrator manufacturer's recommendations.

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CONCRETE ENCASED DUCTBANK GENERAL REQUIREMENTS

| METRIC LINEAR DIMENSIONS IN MILLIMETRES | No. | Revision | Drawn by | Checked by | Apprvd by | Date | Std. No. (3 of 3) 37-2010 |
|---|---|---|---|---|---|---|---|
| | - | - | - | - | - | - | |

3.14 The PVC pipe shall be joined together with an approved coupling, to provide a sound and watertight joint. The joints in adjacent ducts shall be staggered by at least 200mm.

3.15 For face of boulevard of 5m or more, duct bank shall be terminated 1.0m beyond the face of curb. If the face of boulevard is less than 5m, duct bank shall be terminated 0.5m beyond the face of curb

3.16 The Contractor shall supply and maintain approved ducts to permit the installation of the cables by Alectra Utilities Corporation.

3.17 Ducts located in the primary duct bank, required to provide electrical service to the customer, that are constructed, owned and maintained by the customer, are exclusive for the provision of distribution services for Alectra Only.

3.18 Ducts to be supported with Alectra Utilities approved spacers. The spacers shall be installed within 600mm on both sides where couplings are used.

3.19 A rebar located in the upper zone of duct bank might be required due to the following factors or conditions and would be typically designed by an engineer:

a. Soft soils, loose soils or soils that could be subjected to movement.
b. In special cases where the duct bank is located too close to the finished grade where adequate cover is not provided or difficult to achieve.
c. Under heavy vehicle traffic (industrial plants, rail yards etc.) top reinforcement and shear reinforcement maybe required.
d. Crossing of existing underground facilities.

**4. Customer Obligations**

4.1 Customer's duct bank installation shall be subjected to Alectra Utilities inspection and acceptance prior to pouring of concrete. The Customer shall arrange the necessary inspection as per Alectra Utilities policies and procedures.

4.2 The Customer shall follow directions given by the Alectra Utilities Inspector or Project Design Technologist for any situation not covered in this specification.

4.3 All ducts must be probed prior to cable installation. The cables shall not be installed in ducts which do not allow passage of a mandrel sized to 95% of the diameter of the PVC Type DB2 / ES2.

4.4 Landscaping, paving and curbs installation/restoration shall not be completed until Alectra Utilities cable installation is complete. Otherwise, the Customer at their expense shall do all restorations.

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Shereez Ali — 09/2022
Name — Date
P. Eng., PMP
Signature & Professional Designation

ORIGINAL
Drawn by: S.B.
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Approved by: A.F.
Date: Sept-2022

CONCRETE ENCASED DUCTBANK GENERAL REQUIREMENTS

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SEALS

| NO. | ISSUES/REVISIONS | DATE |
|---|---|---|
| 8 | ISSUED FOR TENDER | 2024-05-01 |
| 7 | ISSUED FOR TENDER | 2024-04-29 |
| 6 | ISSUED FOR TENDER REVIEW | 2024-03-08 |
| 5 | ISSUED FOR PERMIT | 2024-01-24 |
| 4 | ISSUED FOR 99% CD | 2024-01-19 |
| 3 | ALECTRA COORDINATION | 2023-12-18 |
| 2 | ISSUED FOR DESIGN DEVELOPMENT | 2023-10-06 |
| 1 | ALECTRA SERVICE REQUEST | 2023-08-11 |

DRAWING TITLE:

ELECTRICAL UTILITY DETAILS II

ISSUE DATE: 2024-05-01

DRAWN BY: MS — CHECKED BY: CB

PROJECT NO.: CM-22-281 — SCALE: 1 : 1

DRAWING NO.: E-006 — REVISION: 8

[PLOT DATE: 2024-05-01 8:48:56 PM]

| KEYNOTE LEGEND | |
|---|---|
| Key Value | Keynote Text |
| EI1 | PROVIDE ONE DATA DROP TO WIRELESS ACCESS POINT (WAP) MODEL C9130. MOUNT WAP DIRECTLY ON CEILING (DRYWALL OR DROP CEILING, AS NOTED ON RCP). |
| EI2 | PROVIDE ONE DATA DROP TO WAP MODEL C9120. MOUNT WAP ON WALL APPROXIMATLEY 9 ft to 11 ft AFF. |
| P2 | TWO TRANSFORMERS STACKED ONE ON TOP OF THE OTHER, COMPLETE WITH ENGINEERED STRUCT CHANNEL SUPPORT. CONTRACTOR TO HIRE STRUCTURAL ENGINEER TO PROVIDE SEALED DETAIL DURING SUBMITTAL REVIEW PHASE. |
| P3 | CONFIRM EXACT LOCATION OF DEVICE WITH THE OWNER PRIOR TO ROUGH-IN. PROVIDE LAMACOID NAMEPLATE INDICATING FUNCTION OF THE BUTTON. |
| P4 | PROVIDE AUDIBLE ALARM FOR NOTIFICATION VIA PA SYSTEM TO THE IN-STATION STAFF. SEQUENCE OF OPERATION: INITIATE AUDIBLE ALARM WHEN ENTRY IS MADE INTO THE BUILDING. DO NOT INITIATE AUDIBLE ALARM WHEN AN EXIT IS MADE. |
| P6 | CONTRACTOR TO REVIEW FOUR FOLD DOOR SHOP DRAWINGS AND CONFIRM CONDUIT REQUIREMENTS FOR DOOR STATUS, WHETHER PROVIDED BY DOOR CONTACTS SENSOR ON THE DOOR, OR BY STATUS CONTACT IN THE CONTROL PANEL FOR EACH RESPECTIVE DOOR. CONTRACTOR TO INCLUDE FOR CONDUIT ROUGH-IN BASED ON EITHER SCENARIO. |
| P7 | FOR TV IN DAY ROOM, PROVIDE LEGRAND EFSB4 4-GANG WALL BOX TO CONSOLIDATE POWER AND DATA BEHIND TV. PROVIDE DUPLEX RECEPTACLE AND AV PASS THRU BELOW TV SIMILAR TO DETAIL FOR TV AND DINING ROOM. |
| P8 | ALTERNATIVE PRICE NO.1: CREDIT TO DELETE IN-FLOOR RADIANT HEATING SYSTEM. DELETE BREAKERS, FEEDERS AND LOCAL DISCONNECTS FOR THE FOLLOWING EQUIPMENT. RFH-1, RFH-2, B-1, P-2 and P-3. |
| P9 | ALTERNATIVE PRICE NO.2: DELETE 4-FOLD DOOR, AND IN LIEU, ADD OVERHEAD SECTIONAL DOOR. FOR POWER, DELETE 15A/3P CIRCUIT AND ADD 20A/2P CIRCUIT (BREAKER, FEEDER AND LOCAL DISCONNECT) TO SUIT 1HP, 208V/1PH OHD. |

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| 3 | ALECTRA COORDINATION | 2023-12-18 |
| 2 | ISSUED FOR DESIGN DEVELOPMENT | 2023-10-06 |
| 1 | ALECTRA SERVICE REQUEST | 2023-08-11 |

DRAWING TITLE:

POWER AND SYSTEMS PLAN

| | |
|---|---|
| ISSUE DATE: | 2024-05-01 |
| DRAWN BY: MS | CHECKED BY: CB |
| PROJECT NO.: CM-22-281 | SCALE: 1 : 75 |
| DRAWING NO.: | REVISION: |

E-101 | 8

PLOT DATE: 2024/05/01 09:03 | jag

| KEYNOTE LEGEND | |
|---|---|
| Key Value | Keynote Text |
| P1 | PROVIDE WP GFI 5-20R @ 750mm (30") ABOVE FINISHED ROOF LEVEL C/W WET LOCATION COVER PLATE FOR POWER TO ROOF MOUNTED HVAC EQUIPMENT. TYPICAL. LOCATE WITHIN 7500mm (25 FEET) OF NEW HVAC EQUIPMENT, AND AT LEAST 200mm (6.5 FEET) AWAY FROM ROOF LINE. COVER PLATE TO BE MARKED "EXTRA DUTY". REFER TO 2021 OESC RULES 2-316, 26-709, AND 26-710, AND OESC BULLETIN 26-27^, OR LATEST EDITION LABEL: RECEPTACLE WITH PHENOLIC (LAMACOID) NAMEPLATE WITH PANELBOARD ID, CIRCUIT NUMBER, AND PANELBOARD LOCATION. |

MB48,50
CND-2

RB7
WP
P1
FUTURE EVPC-2

MB52,54
EF-3

FIRE TRUCK LEVEL 3
EV CHARGER EVPC-1
WP ENCLOSURE

DP-PV

PVI-1

PVI-6

PVI-4

PVI-2

PVI-5

PVI-3

CORD REEL
CORD REEL

CORD REEL
CORD REEL

MB44,46
ERV-2

P1
RB7
WP

MB45,47
EF-4

MA7,9,11
HP-1
P1
WP
RB7
WP
WP

MA2,4,6
HP-2

MA20,22,24
ERV-1
WP

MB41,43
CND-1

RESERVE 2mx2m FOR MACH
ALERT ANTENNA. KELCOM TO
CONFIRM THE EXACT LOCATION
AND AREA REQUIRED.
PROVIDE 3x2in CONDUITS
TO THE IT ROOM

P1
RB7
WP

MA13,15,17
EF-2

SOLAR PV LAYOUT SHOWN IS
SCHEMATIC AND TO BE
DETERMINED BY THE SOLAR PV
MANUFACTURER (TYPICAL)

PVI-7

BIPV
CLADDING
(TYPICAL)

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| 4 | ISSUED FOR 99% CD | 2024-01-19 |
| 3 | ALECTRA COORDINATION | 2023-12-18 |
| 2 | ISSUED FOR DESIGN DEVELOPMENT | 2023-10-06 |
| 1 | ALECTRA SERVICE REQUEST | 2023-08-11 |

DRAWING TITLE:

ROOF POWER AND SYSTEMS PLAN

ISSUE DATE: 2024-05-01

DRAWN BY: MS CHECKED BY: CB

PROJECT NO.: CM-22-281 SCALE: 1 : 75

DRAWING NO.: E-102 REVISION: 8

[PLOT DATE: 2024/05/1 6:09:07 ]

| KEYNOTE LEGEND | |
|---|---|
| Key Value | Keynote Text |
| L1 | CONTROLLED RECEPTACLES IN DAYROOM LOUNGE TO MEET OBC SB-10/ASHRAE 90.1-2015 REQUIREMENTS, TYPICAL. RECEPTACLES ARE INTERLOCKED WITH LIGHTING OCCUPANCY SENSORS. |
| L4 | LUMINAIRE TYPE STA - OCCUPANCY MODE ON SENSOR, AND OFF WHEN TYPE D8D IS ON VIA MANUAL CONTROL. BOTH OFF AFTER 20 MINUTES OF NO OCCUPANCY DETECTED. |
| L5 | PROVIDE TWO DAYLIGHT HARVESTING ZONES FOR APPARATUS BAY LUMINAIRES, NORTH AND SOUTH ROW OF LUMINAIRES RESPECTIVELY. |
| L6 | LUMINAIRES MOUNTED ON NON-FULL HEIGHT PARTITIONS. |

## GENERAL NOTES

1. ALL THE EMERGENCY SINGLE AND DOUBLE HEADS WILL BE FED FROM THE NEAREST BATTERY UNIT.
2. PROVIDE 120 VOLT CIRCUIT TO ALL EXIT SIGNS. FEED FROM SAME CIRCUIT AS THAT WHICH FEEDS THE NEAREST BATTERY UNIT.

ONE DIMMER CONTROLS EAST HALF OF THE ROOM. OTHER DIMMER CONTROLS WEST HALF OF THE ROOM.

STANDALONE 120V LINE VOLTAGE ON/OFF SENSOR SWITCH WATTSTOPPER DSW-301, LUTRON MS-A102, OR EQUAL, TYPICAL.

1 LIGHTING PLAN
SCALE:1 : 75


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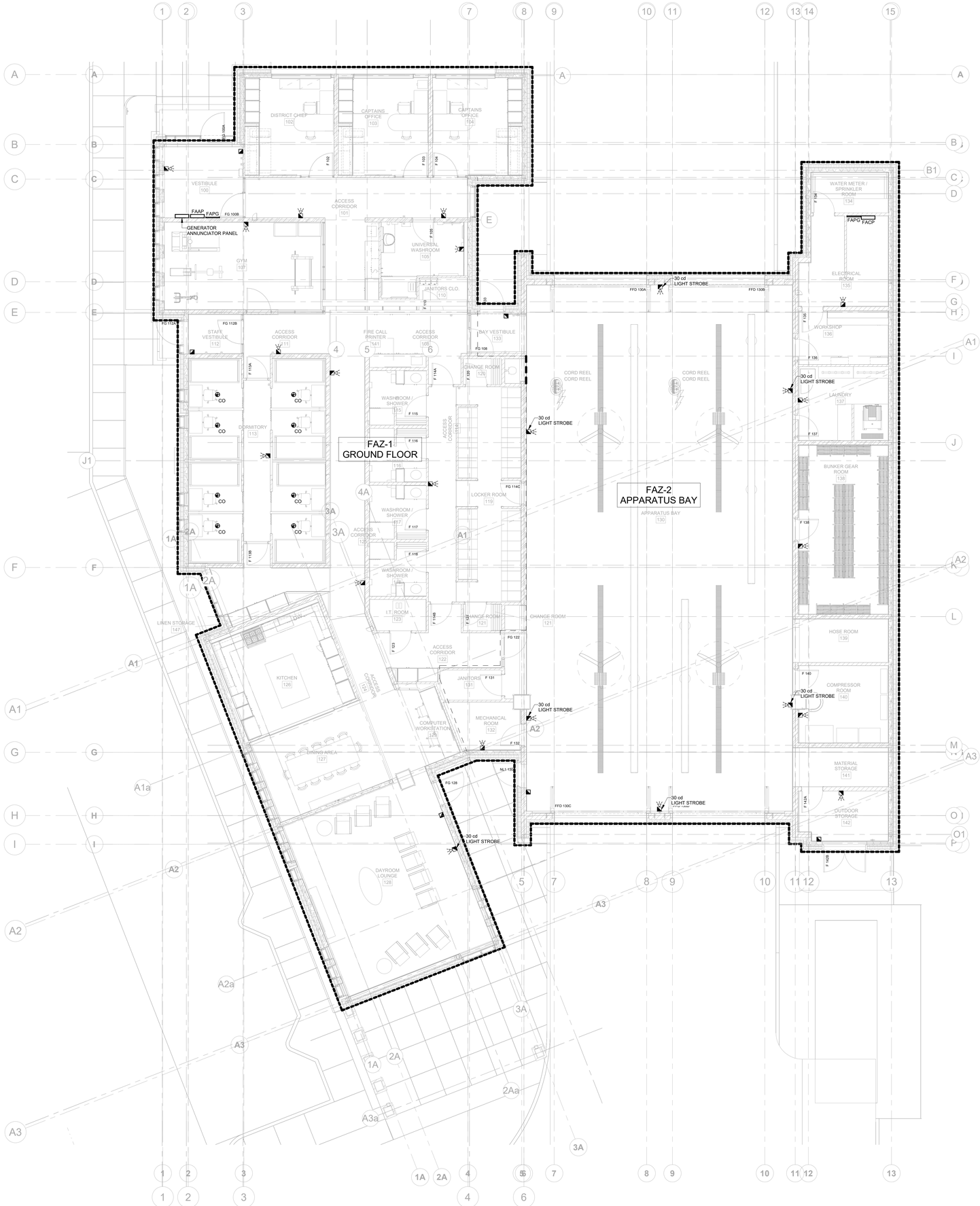
| NO. | ISSUES/REVISIONS | DATE |
|---|---|---|
| 9 | ISSUED FOR TENDER | 2024-05-01 |
| 8 | ISSUED FOR TENDER | 2024-04-29 |
| 7 | RESPONSE TO PERMIT COMMENTS | 2024-03-26 |
| 6 | ISSUED FOR TENDER REVIEW | 2024-03-08 |
| 5 | ISSUED FOR PERMIT | 2024-01-24 |
| 4 | ISSUED FOR 95% CD | 2024-01-19 |
| 3 | ALECTRA COORDINATION | 2023-12-18 |
| 2 | ISSUED FOR DESIGN DEVELOPMENT | 2023-10-06 |
| 1 | ALECTRA SERVICE REQUEST | 2023-06-11 |

DRAWING TITLE:

LIGHTING PLAN

| | |
|---|---|
| ISSUE DATE: | 2024-05-01 |
| DRAWN BY: MS | CHECKED BY: CB |
| PROJECT NO.: CM-22-281 | SCALE: As indicated |
| DRAWING NO.: E-111 | REVISION: 9 |

[PLOT DATE: 2024-05-01 8:08:18 PM]





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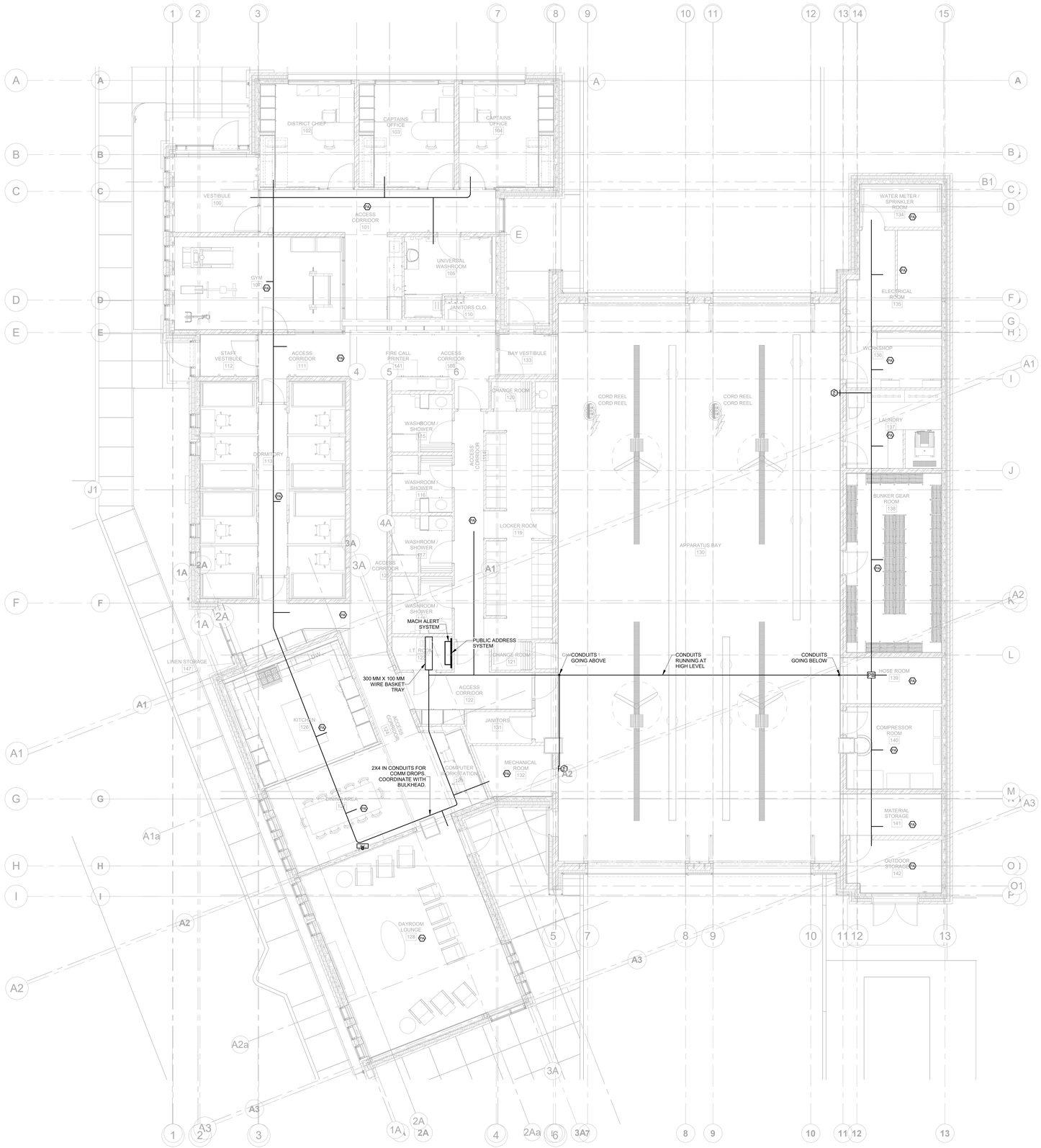
| 2 | ISSUED FOR DESIGN DEVELOPMENT | 2023-10-06 |
| 1 | ALECTRA SERVICE REQUEST | 2023-08-11 |

DRAWING TITLE:

FIRE ALARM KEY PLAN

| | |
|---|---|
| ISSUE DATE: | 2024-05-01 |
| DRAWN BY: Author | CHECKED BY:Checker |
| PROJECT NO.: CM-22-281 | SCALE: 1 : 75 |
| DRAWING NO.: E-120 | REVISION: 9 |

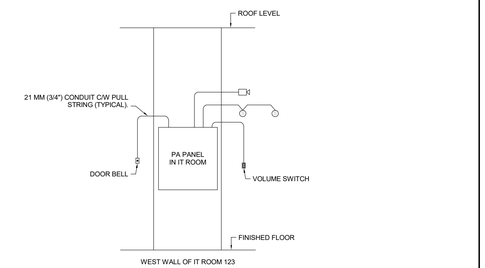
PLOT DATE: 2024/5/1 3:09:24 PM



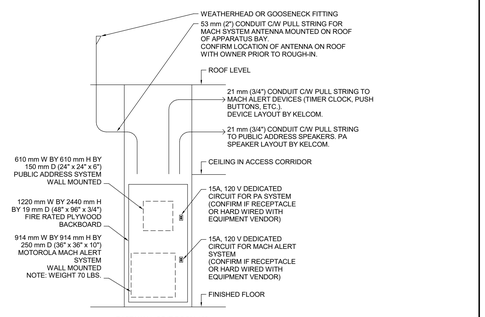

1 AUXILIARY SYSTEMS - LEVEL 1 - NEW WORK
SCALE:1 : 75

## GENERAL NOTES

1. PATHWAYS FOR VOICE AND DATA HORIZONTAL CABLING: PROVIDE WIRE BASKET CABLE TRAY PER LAYOUT NOTED ON DRAWING E-131. WHERE SHOWN IN AREAS WITH LAY-IN SUSPENDED CEILING, INSTALL ABOVE SUSPENDED CEILING. PROVIDE J-HOOKS ABOVE SUSPENDED CEILING WHERE TRAY IS NOT INDICATED, AND PROVIDE CONDUIT WHERE THERE IS NO SUSPENDED CEILING. PROVIDE CONDUITS AT HIGH LEVEL IN APPARATUS BAY FOR VOICE AND DATA HORIZONTAL CABLING. PROVIDE "BELL END" SLEEVES THROUGH WALL TRANSITIONS BETWEEN CABLE TRAYS AND CONDUITS, TYPICAL.
2. DRAWING INDICATES ROUTING OF CONDUITS 2 IN OR GREATER. PROVIDE ADDITIONAL PULL BOXES, JUNCTION BOXES ETC., TO SUIT FINAL CONNECTIONS TO INDIVIDUAL DEVICES.
3. PROVIDE CONDUIT FOR ALL DATA DROPS AND COMMUNICATIONS DROPS WHERE ROUTED THROUGH AREAS OF GYPSUM BOARD CEILINGS OR EXPOSED CEILINGS. PAINT CONDUIT TO SUIT EXPOSED CEILING FINISH COLOUR.




3 PA SYSTEM RISER
SCALE: N.T.S




2 MACH ALERT AND PUBLIC ADDRESS BACKBOARD ELEVATION
SCALE: N.T.S

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SEALS

| NO. | ISSUES/REVISIONS | DATE |
|---|---|---|
| 8 | ISSUED FOR TENDER | 2024-05-01 |
| 7 | ISSUED FOR TENDER | 2024-04-29 |
| 6 | ISSUED FOR TENDER REVIEW | 2024-03-08 |
| 5 | ISSUED FOR PERMIT | 2024-01-24 |
| 4 | ISSUED FOR 99% CD | 2024-01-19 |
| 3 | ALECTRA COORDINATION | 2023-12-18 |
| 2 | ISSUED FOR DESIGN DEVELOPMENT | 2023-10-06 |
| 1 | ALECTRA SERVICE REQUEST | 2023-08-11 |

DRAWING TITLE:
AUXILIARY SYSTEMS PLAN

ISSUE DATE: 2024-05-01
DRAWN BY: MS CHECKED BY: CB
PROJECT NO.: CM-22-281 SCALE: As indicated
DRAWING NO.: E-131 REVISION: 8

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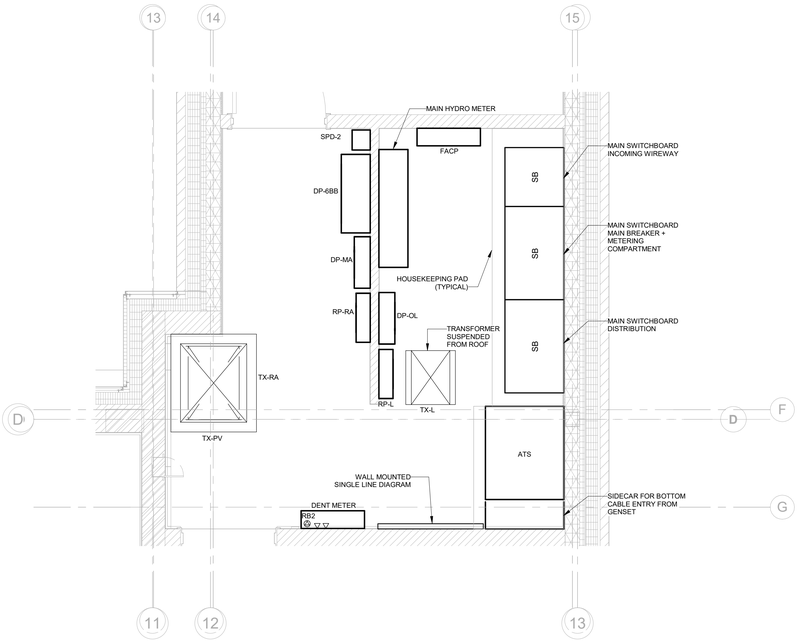
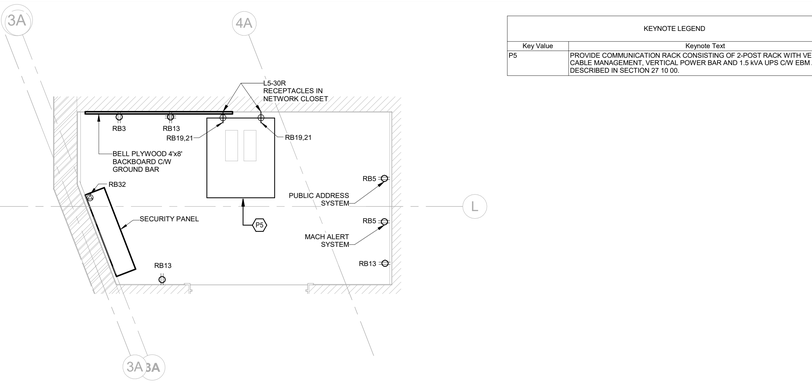



1 ENLARGED VIEW OF ELECTRICAL ROOM

SCALE: 1 : 25




| KEYNOTE LEGEND | |
|---|---|
| Key Value | Keynote Text |
| P5 | PROVIDE COMMUNICATION RACK CONSISTING OF 2-POST RACK WITH VERTICAL CABLE MANAGEMENT, VERTICAL POWER BAR AND 1.5 kVA UPS C/W EBM AS DESCRIBED IN SECTION 27 10 00. |

2 ENLARGED VIEW OF I.T ROOM

SCALE: 1 : 20

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| 3 | ALECTRA COORDINATION | 2023-12-18 |
| 2 | ISSUED FOR DESIGN DEVELOPMENT | 2023-10-06 |
| 1 | ALECTRA SERVICE REQUEST | 2023-08-11 |

DRAWING TITLE:

LARGE SCALE ELECTRICAL PLANS

| | |
|---|---|
| ISSUE DATE: | 2024-05-01 |
| DRAWN BY: MS | CHECKED BY: CB |
| PROJECT NO.: CM-22-281 | SCALE: As indicated |
| DRAWING NO.: | REVISION: |

E-401 | 8

PLOT DATE: 2024-05-01 5:08:39 PM

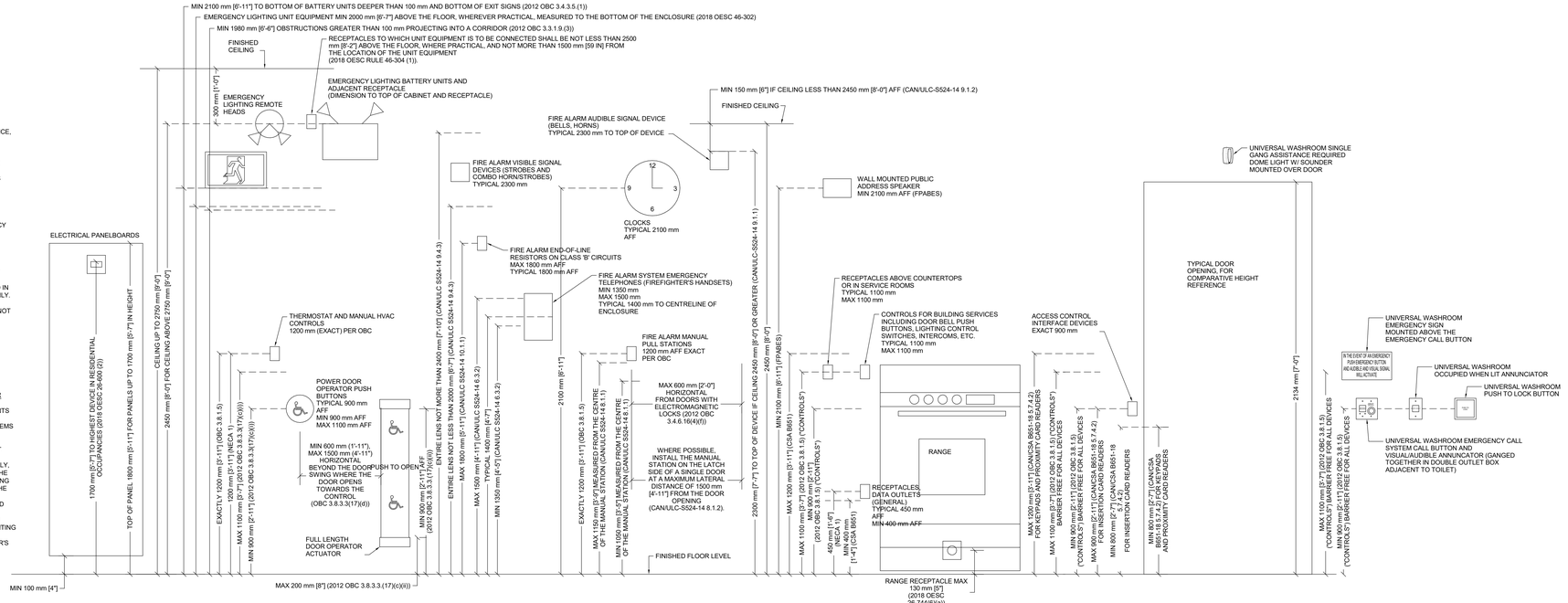
GENERAL NOTES:

1. DEVICE DIMENSIONS TO THE CENTRELINE OF THE DEVICE, UNLESS NOTED OTHERWISE. METRIC DIMENSIONS GOVERN.
2. DEVICES, INCLUDING ACCESS CONTROL INTERFACE DEVICES, DOOR OPERATOR PUSH BUTTONS, AND FIRE ALARM MANUAL PULL STATIONS ARE NOT TO BE INSTALLED ON HOLLOW METAL DOOR FRAMES UNLESS OTHERWISE NOTED.
3. DEVICE MOUNTING HEIGHT RULES:
   - 3.1. EXACT DIMENSIONS, WHERE INDICATED, MUST BE FOLLOWED, AND NO DEVIANCE IS PERMITTED.
   - 3.2. TYPICAL DIMENSIONS, WHERE INDICATED, ARE A PREFERENCE OF THE DESIGNER FOR CONSISTENCY OF INSTALLATION.
   - 3.3. WHERE CIRCUMSTANCES PREVENT A TYPICAL DIMENSION FROM BEING MET, DEVICES MAY BE INSTALLED WITHIN THE RANGE OF MINIMUM AND MAXIMUM THAT MEETS ALL THE REFERENCED DOCUMENTS. CONFIRM EXACT MOUNTING HEIGHT WITH THE CONSULTANT.
4. METRIC DIMENSIONS GOVERN. DIMENSIONS PROVIDED IN OTHER UNITS PROVIDED FOR EASE OF REFERENCE ONLY.
5. REFER TO ARCHITECT OR INTERIOR DESIGNER'S DRAWINGS FOR ELEVATIONS OR MOUNTING HEIGHTS NOT DETAILED HERE.

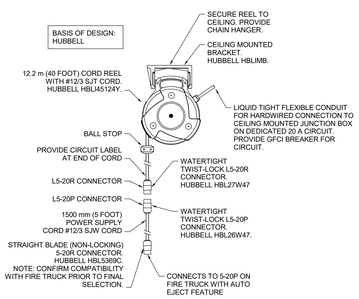
THIS DETAIL IS SPECIFIC TO INSTALLATIONS IN ONTARIO. OWNER'S ACCESSIBILITY DESIGN GUIDELINES MAY BE MORE STRINGENT.

REFERENCES AND DOCUMENT ORDER OF PRECEDENCE FOR ACCESSIBLE DESIGN:

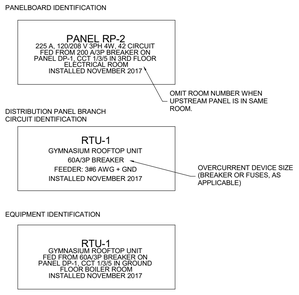
1. 2012 ONTARIO BUILDING CODE (OBC), WITH AMENDMENTS EFFECTIVE JAN 1, 2015 (MANDATORY)
2. CAN/ULC S524-14 - INSTALLATION OF FIRE ALARM SYSTEMS (MANDATORY)
3. 2021 ONTARIO ELECTRICAL SAFETY CODE (OESC).
4. CAN/CSA B651-18 - ACCESSIBLE DESIGN FOR THE BUILT ENVIRONMENT (VOLUNTARY STANDARD).
5. FINAL PROPOSED ACCESSIBLE DESIGN STANDARD - JULY, 2010 (FPABES). THIS DOCUMENT WAS SUBMITTED TO THE ONTARIO MINISTRY OF MUNICIPAL AFFAIRS AND HOUSING FOR CONSIDERATION IN AN UPCOMING REVISION TO THE ONTARIO BUILDING CODE. TO DATE, THE RECOMMENDATIONS HAVE NOT BEEN ACTED UPON AND THE FPABES IS THEREFORE NOT MANDATORY.
6. NECA 1-2010: STANDARD FOR GOOD WORKMANSHIP IN ELECTRICAL CONSTRUCTION (TABLE 3 - TYPICAL MOUNTING HEIGHTS).
7. GOOD ENGINEERING JUDGEMENT AND MANUFACTURER'S RECOMMENDATIONS.




## 3 MOUNTING HEIGHTS
SCALE: N.T.S.




## 8 FIRE STATION CORD REEL
SCALE:N.T.S.



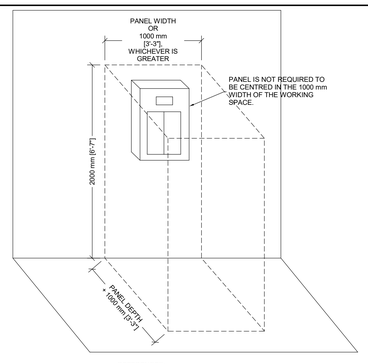

## 5 ELECTRICAL IDENTIFICATION NAMEPLATE SAMPLES
SCALE:N.T.S.

MAXIMUM BRANCH WIRING DISTANCE FOR 120 V SYSTEM AT 2% VOLTAGE DROP

| WIRE SIZE | BREAKER SIZE (AMPERES) | 15 | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 100 |
|---|---|---|---|---|---|---|---|---|---|---|
| | MAX. LOAD AT 80% (AMPERES) | 12 | 16 | 24 | 32 | 40 | 48 | 56 | 68 | 80 |
| NO. 12 | - | 16.8 | 12.2 | - | - | - | - | - | - | - |
| NO. 10 | - | 25.9 | 19.0 | 12.9 | - | - | - | - | - | - |
| NO. 8 | - | 39.6 | 30.4 | 20.5 | 15.2 | - | - | - | - | - |
| NO. 6 | - | 62.4 | 47.2 | 32.0 | 23.6 | 19.0 | 16.0 | - | - | - |
| NO. 4 | - | 99.0 | 73.1 | 50.2 | 38.1 | 30.4 | 24.3 | 21.3 | 19.0 | - |
| NO. 2 | - | - | 114.3 | 77.2 | 57.9 | 47.2 | 38.8 | 33.5 | 28.9 | 22.8 |
| NO. 1 | - | - | - | 96.0 | 73.1 | 57.9 | 47.2 | 42.6 | 36.5 | 27.4 |
| NO. 1/0 | - | - | - | - | 85.3 | 68.5 | 56.3 | 48.7 | 41.9 | 33.5 |
| NO. 2/0 | - | - | - | - | 102.8 | 80.7 | 67.0 | 57.9 | 50.2 | 40.3 |
| NO. 3/0 | - | - | - | - | - | 95.2 | 79.2 | 68.5 | 59.4 | 47.2 |
| NO. 4/0 | - | - | - | - | - | - | 92.9 | 79.2 | 70.1 | 56.3 |
| 250 MCM | - | - | - | - | - | - | 102.8 | 86.8 | 76.2 | 60.9 |
| 300 MCM | - | - | - | - | - | - | - | 100.5 | 88.3 | 70.1 |

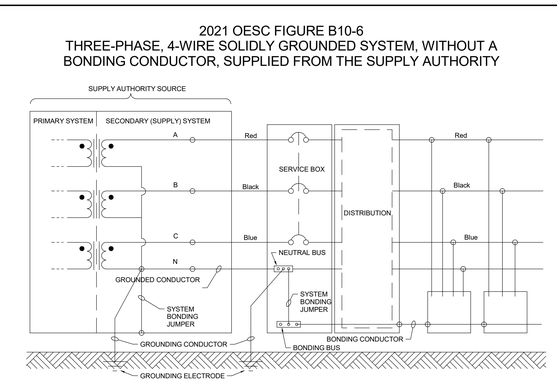
NOTE: DISTANCES INDICATED IN METRES FROM PANEL TO LOAD FOR SINGLE PHASE.

## 2 MAX BRANCH WIRING DISTANCE FOR 120 V SYSTEM AT 2 PER CENT VOLTAGE DROP
SCALE: N.T.S.

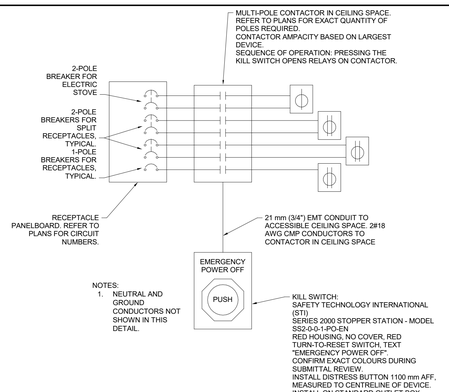



REFERENCES:
1. 2018 ONTARIO ELECTRICAL SAFETY CODE (OESC), RULE 2-308(1) (OR LATEST EDITION)
2. OESC BULLETIN 2-9-*(LATEST VERSION)

## 7 CLEAR SPACE AROUND PANELBOARDS
SCALE:N.T.S.




## 4 MAIN SWITCHBOARD GROUNDING
SCALE:N.T.S.




## 1 RECEPTACLE POWER KILL SWITCH
SCALE: N.T.S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| 1 | ALECTRA SERVICE REQUEST | 2023-08-11 |

DRAWING TITLE:

ELECTRICAL DETAILS I

ISSUE DATE: 2024-05-01

DRAWN BY: MS CHECKED BY: CB

PROJECT NO.: CM-22-281 SCALE: As indicated

DRAWING NO.: E-501 REVISION: 8

PLOT DATE: 2024-05-01 8:08:45 PM

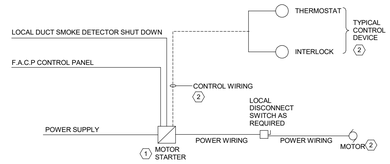
## SCHEDULE 26 06 30.13 - STANDBY POWER SYSTEM CONTROL AND MONITORING WIRING SCHEDULE

| ROW | WORK RESULT | TERMINATION POINT (START) | EQUIPMENT LOCATION | TERMINATION POINT (END) | EQUIPMENT LOCATION | SIGNAL | CONDUCTOR (C/W CONDUIT SUPPLIED AND INSTALLED BY THIS CONTRACTOR) | REMARKS |
|---|---|---|---|---|---|---|---|---|
| 1 | 26 32 13.16 | GAS-ENGINE-DRIVEN EMERGENCY GENERATOR | GENERATOR ENCLOSURE OUTSIDE | REMOTE GENERATOR ANNUNCIATOR | VESTIBULE 100 | REMOTE ANNUNCIATOR POWER (24VDC) | 1-PAIR #16AWG STRANDED | |
| 2 | 26 32 13.16 | GAS-ENGINE-DRIVEN EMERGENCY GENERATOR | GENERATOR ENCLOSURE OUTSIDE | REMOTE GENERATOR ANNUNCIATOR | VESTIBULE 100 | REMOTE ANNUNICATOR SIGNAL | 4-PAIR #16 AWG STRANDED, OR TO SUIT MANUFACTURER'S REQUIREMENTS | |
| 3 | 26 32 13.16 | GAS-ENGINE-DRIVEN EMERGENCY GENERATOR | GENERATOR ENCLOSURE OUTSIDE | FIRE ALARM SYSTEM - SUPERVISORY SIGNAL | MAIN ELECTRICAL ROOM | MONITORING: GENERATOR RUNNING | 1-PAIR #18AWG STRANDED | NON-LATCHING FIRE ALARM ZONE |
| 4 | 26 32 13.16 | GAS-ENGINE-DRIVEN EMERGENCY GENERATOR | GENERATOR ENCLOSURE OUTSIDE | FIRE ALARM SYSTEM - SUPERVISORY SIGNAL | MAIN ELECTRICAL ROOM | MONITORING: GENERATOR COMMON ALARM | 1-PAIR #18AWG STRANDED | CSA C282:19, TABLE 1 |
| 5 | 26 32 13.16 | GAS-ENGINE-DRIVEN EMERGENCY GENERATOR | GENERATOR ENCLOSURE OUTSIDE | BUILDING AUTOMATION SYSTEM | [ ] | MONITORING | 1 x CAT 6 (BACNET/IP) (BACNET MS/TP) | |
| 6 | 26 32 13.16 | GENERATOR GAS SUPPLY VALVE(S) | GROUND LEVEL OUTSIDE BUILDING AT MAIN REGULATOR STATION | GAS-ENGINE DRIVEN EMERGENCY GENERATOR | GENERATOR ENCLOSURE OUTSIDE | GENERATOR FUEL SUPPLY POSITION-INDICATING CONTACT, TYPICAL OF EACH VALVE | 1-PAIR #18 AWG STRANDED | CSA C282:19, 7.3.7(a)(iv). INDICATE TROUBLE AT GENERATOR CONTROL PANEL WHEN VALVE IS CLOSED. |
| 7 | 26 32 13.16 | GENERATOR GAS SUPPLY VALVE(S) | ADJACENT TO GENERATOR SET | GAS-ENGINE DRIVEN EMERGENCY GENERATOR | GENERATOR ENCLOSURE OUTSIDE | GENERATOR FUEL SUPPLY POSITION-INDICATING CONTACT, TYPICAL OF EACH VALVE | 1-PAIR #18 AWG STRANDED | CSA C282:19, 7.3.7(a)(iv). INDICATE TROUBLE AT GENERATOR CONTROL PANEL WHEN VALVE IS CLOSED. |
| 8 | 26 36 23 | AUTOMATIC TRANSFER SWITCH (NON-LIFE SAFETY) | MAIN ELECTRICAL ROOM | GENERATOR | GENERATOR ENCLOSURE OUTSIDE | START/STOP | 1-PAIR #18AWG STRANDED | |
| 9 | 26 36 23 | AUTOMATIC TRANSFER SWITCH (NON-LIFE SAFETY) | MAIN ELECTRICAL ROOM | GAS-ENGINE DRIVEN EMERGENCY GENERATOR | GENERATOR ENCLOSURE OUTSIDE | MONITORING: "ATS NOT IN AUTO" | 1-PAIR #18AWG STRANDED | CSA C282:19, 9.5.2. "NOT IN AUTO" INCLUDES "ATS IN BYPASS MODE" |
| 10 | 26 36 23 | AUTOMATIC TRANSFER SWITCH (NON-LIFE SAFETY) | MAIN ELECTRICAL ROOM | EMERGENCY GENERATOR - LOAD BANK BREAKER | GENERATOR ENCLOSURE OUTSIDE | CONTROL: LOAD BANK BREAKER SHUNT TRIP | 1-PAIR #18AWG STRANDED | CSA C282:19, 6.15.2. |

NOTE: ALL POWER, CONTROL, AND COMMUNICATION CONDUCTORS BETWEEN AN EMERGENCY GENERATOR AS DESCRIBED IN 2018 OESC RULE 46-202 3), AND ASSOCIATED ELECTRICAL EQUIPMENT REQUIRED TO BE INSTALLED AS PART OF THE EMERGENCY POWER SUPPLY AND LOCATED OUTSIDE THE GENERATOR ROOM SUCH AS THE TRANSFER SWITCH(ES), BYPASS SWITCHES, ENGINE CONTROL PANEL, ETC., SHALL BE PROTECTED AGAINST FIRE EXPOSURE IN COMPLIANCE WITH THE 2012 OBC 3.2.7.10. (REFER TO 2018 OESC RULE 46-204).

## 5 STANDBY POWER WIRING SCHEDULE

SCALE: N.T.S



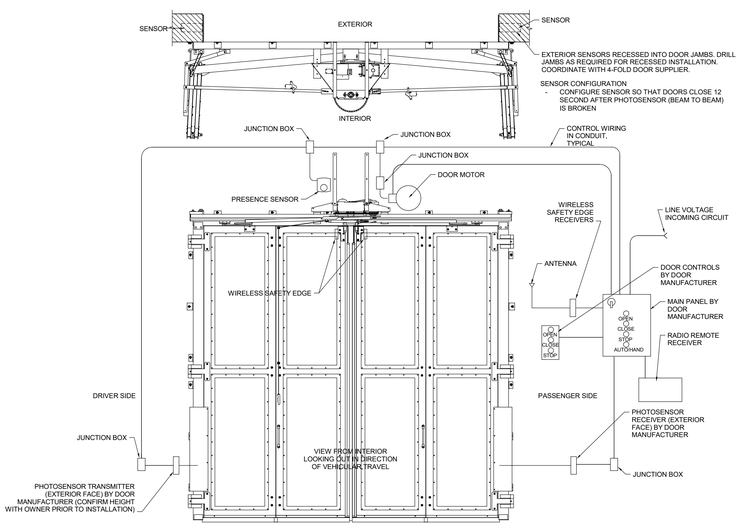

LEGEND
——— BY ELECTRICAL TRADE
- - - - - BY SUPPLYING TRADE

NOTES:(#)
1. STARTER SHALL BE SUPPLIED BY TRADE SUPPLYING EQUIPMENT/MOTOR AND INSTALLED BY ELECTRICAL TRADE.
2. MOTOR AND CONTROLS SHALL BE PROVIDED BY TRADE SUPPLYING EQUIPMENT.
3. CONTROL WIRING AND CONDUIT FOR CONTROL WIRING BY TRADE SUPPLYING EQUIPMENT UNLESS NOTED OTHERWISE.

TYPICAL DIAGRAM FOR LOCAL LOOSE STARTER CONTROL DEVICES

## 3 TYPICAL WIRING DIAGRAM FOR LOOSE STARTERS

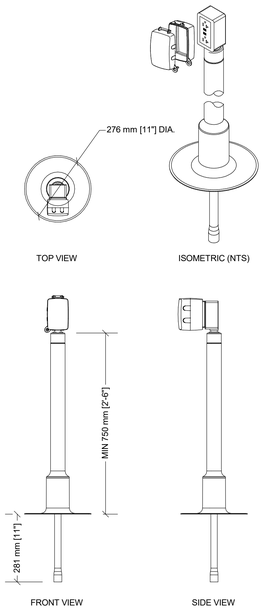
SCALE: N.T.S




NOTES:
1. PROVIDE ALL CONDUIT AND JUNCTION BOXES REQUIRED FOR INTERCONNECTION BETWEEN COMPONENTS OF 4-FOLD DOORS. PROVIDE PULL STRINGS IN ALL CONDUITS. MINIMUM CONDUIT SIZE 27 mm (1") UNLESS DICTATED OTHERWISE BY 4-FOLD DOOR MANUFACTURER.
2. ALL WIRING FOR DOORS (INCLUDING LOW VOLTAGE WIRING) TO BE INSTALLED IN SURFACE MOUNTED EMT (CONDUIT). WIRING SHOWN IS SCHEMATIC ACTUAL INSTALLATION TO SUIT SITE CONDITIONS. ALLOW FOR EMT OR FLEXIBLE CONDUIT FOR FINAL CONNECTIONS.
3. PROVIDE ALL LOW VOLTAGE CONDUCTORS REQUIRED FOR INTERCONNECTION BETWEEN CONTROL COMPONENTS OF 4-FOLD DOORS.
4. LOCATIONS OF DEVICES ARE SCHEMATIC. REFER TO FLOOR PLANS FOR LOCATION OF CONTROL PANELS.
5. CONCEAL CONDUITS WHEREVER POSSIBLE IN WALLS.
6. COORDINATE EXACT CONDUIT ROUGH-IN REQUIREMENTS WITH EQUIPMENT SHOP DRAWINGS.
7. GENERAL CONTRACTOR TO SCHEDULE A MEETING BETWEEN THE 4-FOLD DOOR, ELECTRICAL CONTRACTOR, AND SECURITY CONTRACTOR TO CONFIRM EXACT DELINEATION OF ROUGH-IN WORK BETWEEN TRADES PRIOR TO START OF INSTALLATION.

## 7 4-Fold Door Conduit Rough-In Detail

SCALE: N.T.S

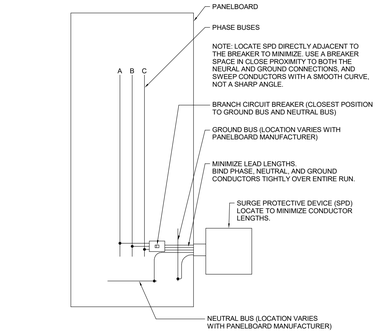



NOTES:
1. PROVIDE WP GFI 5-20R @ 750 mm (30") ABOVE FINISHED ROOF LEVEL C/W WET LOCATION COVER PLATE, TYPICAL. LOCATE WITHIN 7500 mm (25 FT) OF NEW HVAC EQUIPMENT, AND AT LEAST 2000 mm (6.5 FEET) AWAY FROM ROOF LINE. COVER PLATE TO BE MARKED "EXTRA DUTY". REFER TO 2021 OESC RULES 2-316, 26-708, AND 26-710, AND OESC BULLETIN 26-27-*, OR LATEST EDITION.
2. LABEL RECEPTACLE WITH PHENOLIC (LAMACOID) NAMEPLATE WITH PANELBOARD ID, CIRCUIT NUMBER, AND PANELBOARD LOCATION.
3. BASIS OF DESIGN FOR ELECTRICAL SOCKET POST: LEXCOR FLASH-TITE EOP SERIES.
   3.1. APPROVED EQUALS INCLUDE HUBBELL "GREY ALUM OUTDOOR POWER PEDESTAL".
      3.1.1. HUBBELL NOTES: SECURE UNIT THROUGH THE 4 BOLT HOLES ON THE BASE OF THE PEDESTAL AND MOUNT TO A RAISED PAVER OR SIMILAR. INSTALL HOUSING OVER A CONDUIT STUB RUNNING UP THROUGH THE PAVER.
   3.2. OTHER MANUFACTURERS PER SECTION 26 27 26.

CODE REFERENCES (REFER TO 2021 OESC RULES 2-316, 26-708, AND 26-710, AND OESC BULLETIN 26-27-*), OR LATEST CODE EDITION:
1. HVAC EQUIPMENT MAINTENANCE RECEPTACLE INSTALLED ON ROOF (2021 OESC RULE 2-316).
2. GFCI PROTECTED (2021 OESC 26-710(a)).
3. DEDICATED FOR "HVAC MAINTENANCE" (2021 OESC 26-710(b)).
4. CSA CONFIGURATION 5-20R (2021 OESC 26-710(c)).
5. LOCATED WITHIN 7500 mm OF THE ROOFTOP EQUIPMENT (2021 OESC 26-710(d)).
6. NOT LESS THAN 750 mm (30") ABOVE THE FINISHED ROOF LEVEL (2021 OESC 26-710(e)).
7. PROTECT FROM MECHANICAL DAMAGE (2021 OESC 26-710(f)).
8. LOCATE MINIMUM 1800 mm (6 FEET) AWAY FROM ROOF LINE. REFER TO FALL ARREST LEGISLATION.
9. WET LOCATION COVER PLATE TO BE "WHILE IN USE TYPE", MARKED "EXTRA DUTY" (2021 OESC 26-708(2)).
10. SECURE COVER PLATE TO OUTLET BOX BY FOUR SCREWS OR EQUIVALENT MEANS (2021 OESC 26-708(4)).

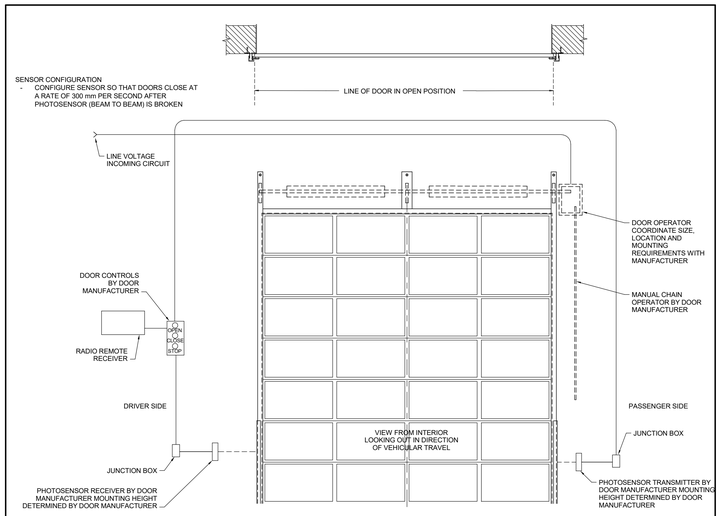
## 6 Maintenance Receptacle for Roof Mounted HVAC Equipment

SCALE: N.T.S




## 4 EXTERNALLY MOUNTED SURGE PROTECTIVE DEVICE

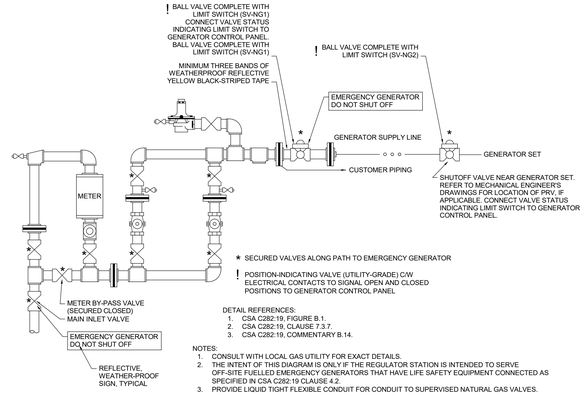
SCALE:N.T.S.




NOTES:
1. PROVIDE ALL CONDUIT AND JUNCTION BOXES REQUIRED FOR INTERCONNECTION BETWEEN COMPONENTS OF OVERHEAD SECTIONAL DOORS. PROVIDE PULL STRINGS IN ALL CONDUITS. MINIMUM CONDUIT SIZE 27 mm (1") UNLESS DICTATED OTHERWISE BY OVERHEAD SECTIONAL DOOR MANUFACTURER.
2. ALL WIRING FOR DOORS (INCLUDING LOW VOLTAGE WIRING) TO BE INSTALLED IN SURFACE MOUNTED EMT (CONDUIT). WIRING SHOWN IS SCHEMATIC ACTUAL INSTALLATION TO SUIT SITE CONDITIONS. ALLOW FOR EMT OR FLEXIBLE CONDUIT FOR FINAL CONNECTIONS.
3. PROVIDE ALL LOW VOLTAGE CONDUCTORS REQUIRED FOR INTERCONNECTION BETWEEN CONTROL COMPONENTS OF OVERHEAD SECTIONAL DOORS.
4. LOCATIONS OF DEVICES ARE SCHEMATIC. REFER TO FLOOR PLANS FOR LOCATION OF CONTROL PANELS.
5. CONCEAL CONDUITS WHEREVER POSSIBLE IN WALLS.
6. COORDINATE EXACT CONDUIT ROUGH-IN REQUIREMENTS WITH EQUIPMENT SHOP DRAWINGS.
7. GENERAL CONTRACTOR TO SCHEDULE A MEETING BETWEEN THE 4-FOLD DOOR, ELECTRICAL CONTRACTOR, AND SECURITY CONTRACTOR TO CONFIRM EXACT DELINEATION OF ROUGH-IN WORK BETWEEN TRADES PRIOR TO START OF INSTALLATION.

## 8 Overhead Sectional Door Conduit Rough-In Detail

SCALE: N.T.S




★ SECURED VALVES ALONG PATH TO EMERGENCY GENERATOR

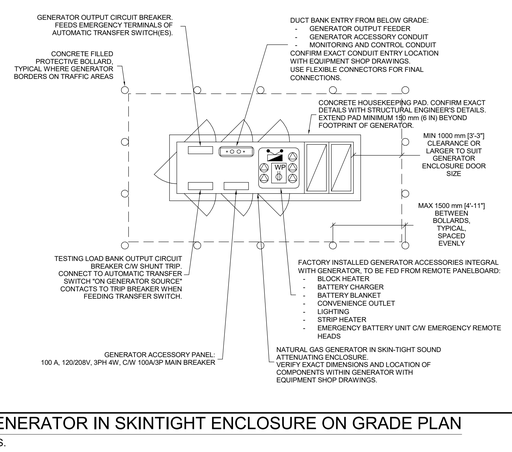
! POSITION-INDICATING VALVE (UTILITY-GRADE) C/W ELECTRICAL CONTACTS TO SIGNAL OPEN AND CLOSED POSITIONS TO GENERATOR CONTROL PANEL

DETAIL REFERENCES:
1. CSA C282:19, FIGURE B.1.
2. CSA C282:19, CLAUSE 7.3.7.
3. CSA C282:19, COMMENTARY B.14.

NOTES:
1. CONSULT WITH LOCAL GAS UTILITY FOR EXACT DETAILS.
2. THE INTENT OF THIS DIAGRAM IS ONLY IF THE REGULATOR STATION IS INTENDED TO SERVE OFF-SITE FUELLED EMERGENCY GENERATORS THAT HAVE LIFE SAFETY EQUIPMENT CONNECTED AS SPECIFIED IN CSA C282:19 CLAUSE 4.2.
3. PROVIDE LIQUID TIGHT FLEXIBLE CONDUIT FOR CONDUIT TO SUPERVISED NATURAL GAS VALVES.

## 2 UTILITY-FED EMERGENCY GENERATOR GAS REGULATOR STATION

SCALE:N.T.S.




## 1 GAS GENERATOR IN SKINTIGHT ENCLOSURE ON GRADE PLAN

SCALE:N.T.S.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SEALS

| NO. | ISSUES/REVISIONS | DATE |
|---|---|---|
| 8 | ISSUED FOR TENDER | 2024-05-01 |
| 7 | ISSUED FOR TENDER | 2024-04-29 |
| 6 | ISSUED FOR TENDER REVIEW | 2024-03-08 |
| 5 | ISSUED FOR PERMIT | 2024-01-24 |
| 4 | ISSUED FOR 95% CD | 2024-01-19 |
| 3 | ALECTRA COORDINATION | 2023-12-18 |
| 2 | ISSUED FOR DESIGN DEVELOPMENT | 2023-10-06 |
| 1 | ALECTRA SERVICE REQUEST | 2023-08-11 |

DRAWING TITLE:

ELECTRICAL DETAILS II

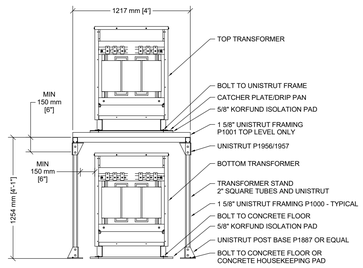
ISSUE DATE: 2024-05-01

DRAWN BY: Author CHECKED BY:Checker

PROJECT NO.: CM-22-281 SCALE: As indicated

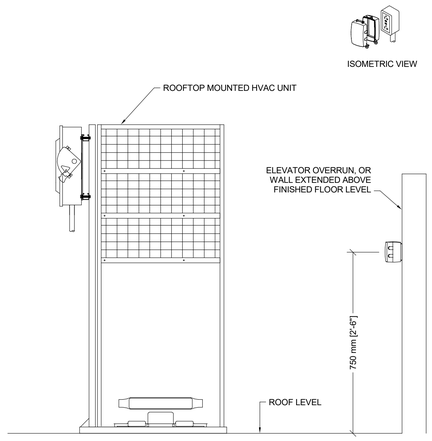
DRAWING NO.: E-502 REVISION: 8


J:\R.OT.DATE 2024\04-01\08-E 1




NOTES:
1. PROVIDED DIMENSIONS ARE BASED ON A 300 kVA DRY-TYPE TRANSFORMER MOUNTED ON TOP OF A 250 kVA DRY-TYPE TRANSFORMER, AND ARE INTENDED TO DEMONSTRATE THE DESIGN CONCEPT.
2. CLEAR SPACE AROUND SIDES AND REAR OF TRANSFORMERS IN ACCORDANCE WITH 2021 OESC RULE 26-246.
3. CONFIRM WEIGHTS AND EQUIPMENT DIMENSIONS WITH STRUCTURAL ENGINEER.
4. WHERE SEISMIC RESTRAINTS ARE REQUIRED, CONTRACTOR'S SEISMIC CONSULTANT AND STRUCTURAL ENGINEER IS TO REVIEW AND PROVIDE A DETAIL THAT MEETS THE INTENT OF THIS THIS DETAIL.

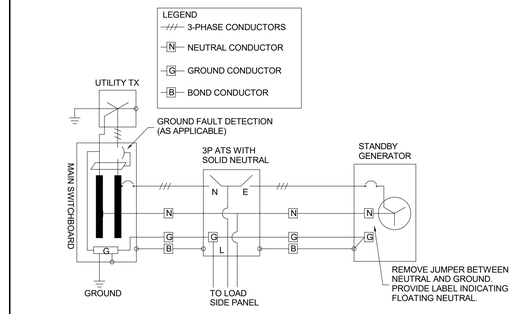
## 4 TRANSFORMER STAND
SCALE: N.T.S




NOTES:
1. PROVIDE WP GFI 5-20R @ 750 mm (30") ABOVE FINISHED ROOF LEVEL C/W WET LOCATION COVER PLATE, TYPICAL. LOCATE WITHIN 7500 mm (25 FT) OF NEW HVAC EQUIPMENT, AND AT LEAST 1800 mm (6 FEET) AWAY FROM ROOF LINE. COVER PLATE TO BE MARKED "EXTRA DUTY". REFER TO 2021 OESC RULES 2-316, 26-708, AND 26-710, AND OESC BULLETIN 26-27-*, OR LATEST EDITION.
2. LABEL RECEPTACLE WITH PHENOLIC (LAMACOID) NAMEPLATE WITH PANELBOARD ID, CIRCUIT NUMBER, AND PANELBOARD LOCATION.

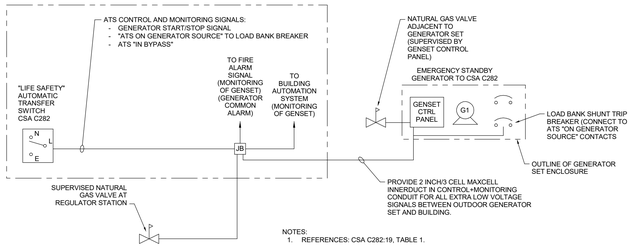
CODE REFERENCES (REFER TO 2021 OESC RULES 2-316, 26-708, AND 26-710, AND OESC BULLETIN 26-27-*), OR LATEST CODE EDITION:
1. HVAC EQUIPMENT MAINTENANCE RECEPTACLE INSTALLED ON ROOF (2021 OESC RULE 2-316).
2. GFCI PROTECTED (2021 OESC 26-710(a)).
3. DEDICATED FOR "HVAC MAINTENANCE" (2021 OESC 26-710(b)).
4. CSA CONFIGURATION 5-20R (2021 OESC 26-710(c)).
5. LOCATED WITHIN 7500 mm OF THE ROOFTOP EQUIPMENT (2021 OESC 26-710(d)).
6. NOT LESS THAN 750 mm (30") ABOVE THE FINISHED ROOF LEVEL (2021 OESC 26-710(e)).
7. PROTECT FROM MECHANICAL DAMAGE (2021 OESC 26-710(f)).
8. LOCATE MINIMUM 1800 mm (6 FEET) AWAY FROM ROOF LINE. REFER TO FALL ARREST LEGISLATION.
9. WET LOCATION COVER PLATE TO BE "WHILE IN USE TYPE", MARKED "EXTRA DUTY" (2021 OESC 26-708(2)).
10. SECURE COVER PLATE TO OUTLET BOX BY FOUR SCREWS OR EQUIVALENT MEANS (2021 OESC 26-708(4)).

## 8 MAINTENANCE RECEPTACLE FOR ROOF MOUNTED HVAC EQUIPMENT
SCALE: N.T.S



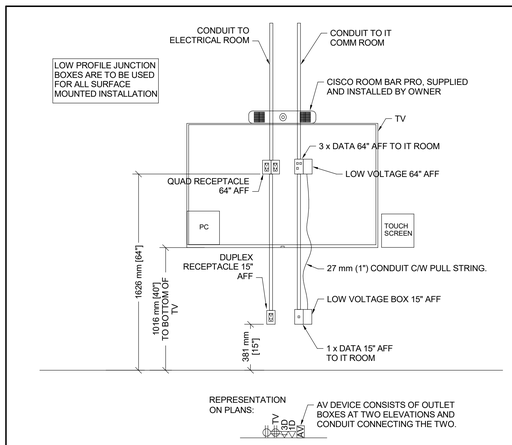

NOTES:
1. BOND CONDUCTOR TO BE SIZED IN ACCORDANCE WITH OESC TABLE 16.

## 3 3-POLE TRANSFER SWITCH GENERATOR SCHEMATIC
SCALE: N.T.S



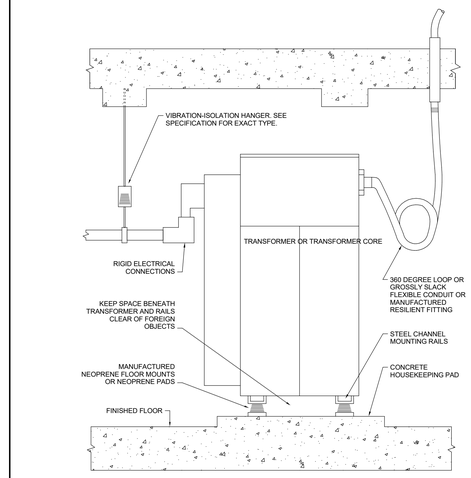

NOTES:
1. REFERENCES: CSA C282:19, TABLE 1.

## 1 EMERGENCY POWER CONTROL WIRING INTERCONNECTIONS
SCALE: N.T.S.

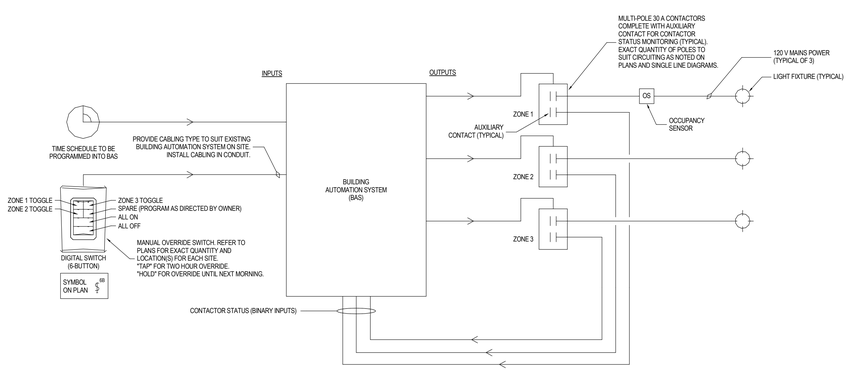



NOTES:
1. REFER TO ARCHITECTURAL DRAWINGS FOR BLOCKING AND MOUNTING REQUIREMENTS DEPENDING ON THE WALL TYPE (GYPSUM BOARD ON STUD OR BLOCK WALLS).
2. DIMENSIONS ON THIS DETAIL ARE TO THE BOTTOM OF THE FACEPLATE (NOT TO THE CENTRELINE OF THE DEVICE).
3. WHERE INSTALLED ON BLOCK WALLS, RECEPTACLE DIMENSIONS ARE NOMINAL AND CAN BE ADJUSTED TO SUIT BLOCK AND GROUT LINE DIMENSIONS FOR EASE OF INSTALLATION.
4. COORDINATE RECEPTACLE PLACEMENT BEHIND TV SCREENS WITH TV WALL MOUNT BRACKET.
5. REFER TO CITY OF MISSISSAUGA AUDIO VISUAL ROUGH-IN DETAILS FOR EXACT EQUIPMENT BILL OF MATERIAL.
6. TOUCH SCREEN AND PC IS ONLY APPLICABLE TO DINING ROOM (TRAINING AREA).
7. ALL CONDUIT AND OUTLET BOXES TO BE RECESSED.

## 7 AV ELEVATION AT TV'S
SCALE:N.T.S




## 2 VIBRATION ISOLATION OF TRANSFORMERS
SCALE: N.T.S




### INTEGRATED AUTOMATION POINTS SUMMARY SCHEDULE

| DESCRIPTION OF DEVICE/EQUIPMENT | INPUT SIGNAL FROM DEVICE TO AUTOMATION SYSTEM | | OUTPUT SIGNAL TO DEVICE | | | |
|---|---|---|---|---|---|---|
| | DIGITAL (BINARY) INPUT (DI) | ANALOGUE INPUT (AI) | DIGITAL (BINARY) OUTPUT (DI) | ANALOGUE OUTPUT (AO) | BACnet MS/TP | REMARKS |
| MANUAL SWITCH BUTTON 1 | MANUAL OVERRIDE TOGGLE - EXTERIOR LIGHTING ZONE 1 (1 x DI) | | | | | TYPICAL OF NUMBER OF QUANTITY OF SWITCHES ON PLANS. PROGRAM TO RECOGNIZE "TAP" AND "TAP AND HOLD" |
| MANUAL SWITCH BUTTON 2 | MANUAL OVERRIDE TOGGLE - EXTERIOR LIGHTING ZONE 2 (1 x DI) | | | | | TYPICAL OF NUMBER OF QUANTITY OF SWITCHES ON PLANS. PROGRAM TO RECOGNIZE "TAP" AND "TAP AND HOLD" |
| MANUAL SWITCH BUTTON 3 | MANUAL OVERRIDE TOGGLE - EXTERIOR LIGHTING ZONE 3 (1 x DI) | | | | | TYPICAL OF NUMBER OF QUANTITY OF SWITCHES ON PLANS. PROGRAM TO RECOGNIZE "TAP" AND "TAP AND HOLD" |
| MANUAL SWITCH BUTTON 4 | SPARE | | | | | TYPICAL OF NUMBER OF QUANTITY OF SWITCHES ON PLANS. PROGRAM TO RECOGNIZE "TAP" AND "TAP AND HOLD" |
| MANUAL SWITCH BUTTON 5 | MANUAL OVERRIDE - EXTERIOR LIGHTING ALL ZONES ON | | | | | TYPICAL OF NUMBER OF QUANTITY OF SWITCHES ON PLANS. PROGRAM TO RECOGNIZE "TAP" AND "TAP AND HOLD" |
| MANUAL SWITCH BUTTON 6 | MANUAL OVERRIDE - EXTERIOR LIGHTING ALL ZONES OFF | | | | | TYPICAL OF NUMBER OF QUANTITY OF SWITCHES ON PLANS. PROGRAM TO RECOGNIZE "TAP" AND "TAP AND HOLD" |
| SCHEDULE (ASTRONOMICAL TIMER) INTEGRATED INTO BUILDING AUTOMATION SYSTEM | | | | | | |
| CONTACTOR ZONE 1 | CONTACTOR STATUS (CONNECT TO AUX CONTACT) | | ZONE A ON/OFF | | | |
| CONTACTOR ZONE 2 | CONTACTOR STATUS (CONNECT TO AUX CONTACT) | | ZONE B ON/OFF | | | |
| CONTACTOR ZONE 3 | CONTACTOR STATUS (CONNECT TO AUX CONTACT) | | ZONE C ON/OFF | | | |

## 5 INTEGRATED AUTOMATION CONTROL OF EXTERIOR LIGHTING
SCALE: N.T.S

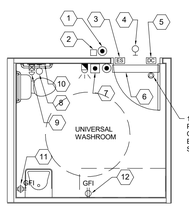
### DETAIL KEYNOTES

| | |
|---|---|
| 1. | BARRIER FREE DOOR OPERATOR PUSH BUTTON, TYPICAL OF TWO, ONE ON EACH SIDE OF DOOR. |
| 2. | "OCCUPIED WHEN LIT" LED ANNUNCIATOR |
| 3. | ELECTRIC STRIKE INTERLOCKED WITH POWERED DOOR OPERATOR AND EMERGENCY CALL SYSTEM REF 2012 OBC, DIV B, 3.8.3.12.(1)(b) |
| 4. | SINGLE GANG DOME LIGHT, WITH SOUNDER INSTALLED ABOVE DOOR. SEE GENERAL NOTE 3. REF 2012 OBC, DIV B, 3.8.3.12.(1)(b) CAMDEN DOOR CONTROLS CM-AF140SO |
| 5. | MAGNETIC DOOR CONTACT SWITCH. DOOR CONTACT IS REQUIRED TO RELEASE THE ELECTRIC STRIKE IF DOOR IS OPENED FROM THE INTERIOR SIDE USING THE DOOR HANDLE. |
| 6. | POWERED DOOR OPERATOR AND CONTROLLER. PROVIDE 120 VOLT CIRCUIT AS NOTED. REF 2012 OBC, DIV B, 3.8.3.12.(1)(i) CAMDEN DOOR CONTROLS BARRIER FREE RESTROOM CONTROL KIT (CX-WC11, 12, 13, OR 14), TO SUIT DOOR HARDWARE SCHEDULE |
| 7. | "PUSH TO LOCK" BUTTON |
| 8. | SINGLE GANG ANNUNCIATOR, WITH SOUNDER "ASSISTANCE REQUESTED" REF 2012 OBC, DIV B, 3.8.3.12.(2)(a) PROVIDE DOUBLE GANG OUTLET BOX FOR ANNUNCIATOR AND MUSHROOM PUSH BUTTON C/W GANGED FACEPLATE. |
| 9. | MUSHROOM PUSH BUTTON, "PRESS FOR EMERGENCY ASSISTANCE" REF 2012 OBC, DIV B, 3.8.3.12.(2)(e). PROVIDE DOUBLE GANG OUTLET BOX FOR ANNUNCIATOR AND MUSHROOM PUSH BUTTON C/W GANGED FACEPLATE. |
| 10. | SIGN ABOVE PUSH BUTTON: "IN THE EVENT OF AN EMERGENCY PUSH EMERENCY BUTTON AND AUDIBLE AND VISUAL SIGNAL WILL ACTIVATE" REF 2012 OBC, DIV B, 3.8.3.12.(2)(b) CAMDEN DOOR CONTROLS CM-SE21 |
| 11. | GFI RECEPTACLE ADJACENT TO SINK (AT COUNTER HEIGHT). |
| 12. | 5-15R RECEPTACLE FOR POWERED ADULT SIZED CHANGE TABLE. GFI RECEPTACLE WITHIN 1500 mm OF SINK REF 2012 OBC, DIV B, 3.8.3.12.(3) |

UNIVERSAL RESTROOM "EMERGENCY ASSISTANCE" SIGNAL ACTIVATION, ANNUNCIATION AND SUPPORTING SIGNAGE SHALL BE CAMDEN DOOR CONTROLS MODEL CX-WEC1-BK2 UNIVERSAL RESTROOM CONTROL KIT.

KIT SHALL INCLUDE:
1. CM-AF140SO.
   1.1. SINGLE GANG MUSHROOM PUSH BUTTON, 1/4" THICK BRUSHED DOUBLE GANG ALUMINUM FACEPLATE AND RED BUTTON, MAINTAINED PUSH/PULL OPERATION WITH "PRESS FOR EMERGENCY ASSISTANCE" PERMANENTLY LASER ETCHED ON THE FACEPLATE.
   1.2. LED ANNUNCIATOR WITH SOUNDER, RATED 85 dB AT 100 mm, WEATHER AND VANDAL RESISTANT CONSTRUCTION, WITH "ASSISTANCE REQUIRED" MESSAGE TEXT, THAT IS NOT LEGIBLE UNLESS THE ANNUNCIATOR IS ENERGIZED.
   1.3. BRUSHED STAINLESS STEEL DOUBLE GANG FACEPLATE.
2. CM-AF142SO SINGLE GANG DOME LIGHT WITH PIEZO SOUNDER, RATED 93 dB AT 1 METRE, BRUSHED STAINLESS STEEL FACEPLATE AND 24 V INCANDESCENT BULB.
3. CM-SE21 SIGN, TO BE LOCATED ABOVE THE ACTIVATION SWITCH, 1.6 mm (1/16"), 381 mm BY 381 mm (15" BY 15"), FIRE RATED EXPANDED PVC WHITE, WITH 25 mm BLACK LETTERING. TEXT SHALL BE: "IN THE EVENT OF AN EMERGENCY PUSH EMERGENCY BUTTON AND AUDIBLE AND VISUAL SIGNAL WILL ACTIVATE"
4. INTERCONNECTED WITH DOOR HARDWARE, INCLUDING DOOR OPERATOR, PUSH TO LOCK BUTTON, ELECTRIC STRIKE, DOOR CONTACT.

NOTES:
1. CONFIRM EXACT HARDWARE AND ROUGH-IN REQUIREMENTS WITH EMERGENCY CALL SYSTEM VENDOR.
2. CONFIRM EXACT EQUIPMENT LOCATIONS WITH ARCHITECTURAL DRAWINGS PRIOR TO ROUGH-IN.




### GENERAL DETAIL NOTES

| | |
|---|---|
| 1. | REFER TO DOOR HARDWARE SCHEDULE FOR EXACT COMPONENTS REQUIRED. |
| 2. | COORDINATE EXACT EQUIPMENT LOCATIONS WITH ARCHITECT AND UNIVERSAL WASHROOM PLAN ON ARCHITECTURAL DRAWINGS. |
| 3. | CONFIRM IF DOME LIGHT AND SOUNDER ARE SUPPLIED SEPARATE, OR AS A COMBINED DEVICE. |
| 4. | CAMDEN CX-WC1SXSM BARRIER FREE CONTROL KIT SPECIFIED IN ARCHITECTURAL SPECS (DOOR HARDWARE SECTION). |
| 5. | PROVIDE ALL CONDUIT AND BOXES REQUIRED FOR ROUGH-IN OF UNIVERSAL WASHROOM KIT. PROVIDE ALL CABLING REQUIRED FOR INSTALLATION OF UNIVERSAL WASHROOM KIT. |

## 6 UNIVERSAL WASHROOM EMERGENCY CALL SYSTEM
SCALE: N.T.S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| 3 | ALECTRA COORDINATION | 2023-12-18 |
| 2 | ISSUED FOR DESIGN DEVELOPMENT | 2023-10-06 |
| 1 | ALECTRA SERVICE REQUEST | 2023-08-11 |

DRAWING TITLE:

ELECTRICAL DETAILS III

ISSUE DATE: 2024-05-01

DRAWN BY: Author CHECKED BY:Checker

PROJECT NO.: CM-22-281 SCALE: As indicated

DRAWING NO.: E-503 REVISION: 8


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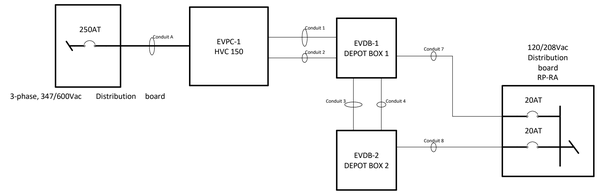
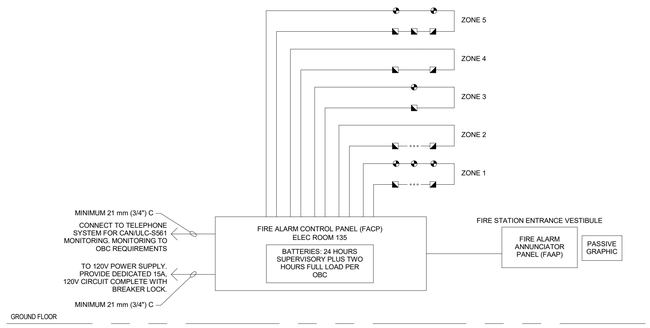


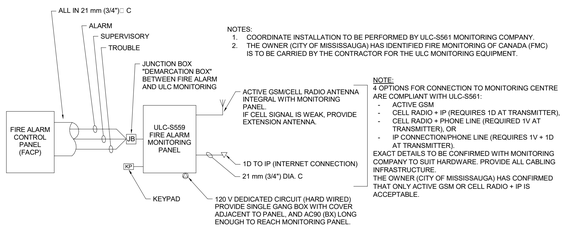

*** Design engineer must verify cables are sized correctly to ensure no issues with voltage drop**

| CONDUIT IDs | FUNCTION OF INTERNAL CABLES | CABLE SELECTION | COMMENTS |
|---|---|---|---|
| A | AC PRIMARY POWER | (3) 250 KCMIL (CU, THWN, 75°C, 600V) + (1) #4 (CU, EGC, 600V) | UPSTREAM OCPD RATED 250A |
| 1, 3 | DC POWER (200A) | (2) 3/0 (CU, DLO, 90°C, 1KV) + (1) #6 (CU, EGC, 600V) | |
| 2 | INTERLOCK (SHIELDED) | (1) CABLE THAT HAS (1) TWISTED PAIR OF #18 (SHIELDED, 600V) | ST CONNECTORS ON ALL ENDS |
| | FIBER CAN<br>ETHERNET CAN | (1) MULTIMODE FIBER (OM3, 8 STRANDS) | |
| 4 | FIBER CAN | (1) MULTIMODE FIBER (OM3, 4 STRANDS) | |
| | ETHERNET | (1) ETHERNET (S/FTP, CAT6/CAT5e) | RJ45 CONNECTORS ON ALL ENDS |
| | INTERLOCK (SHIELDED)<br>DC GUARD | (1) CABLE THAT HAS (2) TWISTED PAIR OF #18 (SHIELDED, 600V) | |
| 7, 8 | AC AUXILIARY POWER | (1) CABLE THAT HAS #12 (CU, THWN, 75°C, 600V) + (1) #12 CU EGC | UPSTREAM OCPD RATED 20A. 1-PHASE 120V |
| 5,6,9 | CONDUIT DESIGNATION NOT USED | | |

3 ABB HVC DEPOT BOX
SCALE: N.T.S




2 FIRE ALARM RISER
SCALE: N.T.S




4 FIRE ALARM INTERFACE TO ULC-S561 MONITORING
SCALE: N.T.S

## FIRE ALARM ZONE AND SUPERVISORY ZONE SCHEDULE

| | SD SMOKE DETECTOR<br>DSD DUCT SMOKE DETECTOR<br>HD HEAT DETECTOR | MPS MANUAL PULL STATION<br>FS FLOW SWITCH<br>SV SUPERVISED VALVE | | PS WATER FLOW INDICATING PRESSURE SWITCH | | LAPS - LOW AIR PRESSURE SWITCH | | | | FAZ- ALARM<br>FSZ - SUPERVISORY |
|---|---|---|---|---|---|---|---|---|---|---|
| ZONE (2012 OBC 3.2.4.9) | DESCRIPTION | ALARM | ANNUNCIATOR<br>A-ALARM<br>S-SUPERVISORY<br>M-BUILDING MONITOR<br>R-ANCILLARY RELAY | FA DEVICES | | | | | | REMARKS |
| | | | | SD | DSD | HD | MPS | FS | SV | PS | |
| | POWER ON | | GREEN | | | | | | | | |
| | COMMON TROUBLE | | YELLOW | | | | | | | | |
| FAZ-1 | GROUND FLOOR OFFICE | | A | X | | | X | | | | 2012 OBC 3.2.4.9(2)(B) |
| FAZ-2 | GROUND FLOOR APPARATUS BAY | | A | X | | | X | | | | 2012 OBC 3.2.4.9(2)(B) |
| FAZ-3 | SPARE | | A | | | | | | | | |
| FAZ-4 | GROUND FLOOR SPRINKLER FLOW | FS-1 | A | | | | | X | | | 2012 OBC 3.2.4.17 (1), 3.2.6.7.(2)(K) |
| FAZ-5 TO 10 | SPARE ALARM ZONES | | A | | | | | | | | |
| | | | | | | | | | | | |
| FSZ-1 | BYPASS OF ANY ANCILLARY OUTPUT RELAY | | S | | | | | | | | |
| FSZ-2 | SPRINKLER DOUBLE CHECK VALVE ASSEMBLY | SV-1 | S | | | | | | X | | 2012 OBC 3.2.4.10.(2) |
| FSZ-3 | SPRINKLER DOUBLE CHECK VALVE ASSEMBLY | SV-3 | S | | | | | | X | | 2012 OBC 3.2.4.10.(2) |
| FSZ-4 | GROUND CONTROL VALVE (WET ZONE 1) | SV-3 | S | | | | | | X | | 2012 OBC 3.2.4.10.(3)(A) |
| FSZ-5 | GROUND CONTROL VALVE (WET ZONE 2) | SV-4 | S | | | | | | X | | 2012 OBC 3.2.4.10.(3)(A) |
| FSZ-6 | MAIN SPRINKLER LOW PRESSURE (LOSS OF EXCESS PRESSURE) | PS-1 | S | | | | | | | X | 2012 OBC 3.2.4.10.(3)(B) |
| FSZ-7 | GENERATOR MONITORING (CSA C282) (COMMON ALARM) | SV-5 | S | | | | | | | | |
| FSZ-8 | SPRINKLER ZONE 1 | FS-1 | S | | | | | | | | 2012 OBC 3.2.4.17 |
| FSZ-9 | SPRINKLER ZONE 1 | FS-2 | S | | | | | | | | 2012 OBC 3.2.4.17 |
| FSZ-10 | SPARE | | S | | | | | | | | |
| FSZ-11 TO FSZ-15 | SPARE SUPERVISORY ZONES | | S | | | | | | | | |
| | | | | | | | | | | | |
| FMZ-1 | EMERGENCY GENERATOR RUNNING | | M | | | | | | | | NON-LATCHING SIGNAL |
| | | | | | | | | | | | |
| RELAY-1 | ALARM SIGNAL TO ULC MONITORING | | R | | | | | | | | |
| RELAY-2 | SUPERVISORY SIGNAL TO ULC MONITORING | | R | | | | | | | | 2012 OBC 3.2.4.10.(6) |
| RELAY-3 | TROUBLE SIGNAL TO ULC MONITORING | | R | | | | | | | | |
| RELAY-14 | HVLS FAN SHUTDOWN ON SPRINKLER FLOW | | R | | | | | | | | |

NOTES:
1. REFER TO FLOOR PLANS FOR EXACT LOCATIONS QUANTITY OF DEVICES.
2. CONTRACTOR IS TO CONFIRM WIRE SIZE (BASED UPON LENGTH OF CIRCUIT RUN AND QUANTITY OF SIGNALS) FOR SIGNAL CIRCUIT WITH MANUFACTURER.
3. PROVIDE THE REQUIRED NUMBER OF SIGNAL CIRCUITS TO SUIT THE QUANTITY OF STROBES. SIGNAL CIRCUITS ARE TO BE ALTERNATED.
4. LOCATE END OF LINE RESISTORS AND ISOLATOR MODULES IN SERVICE ROOMS AT ±1.8M AFF. PROVIDE LAMICOID LABEL INDICATING ZONE LABEL AND NUMBER.
5. PROVIDE BY-PASS SWITCH FOR ALL ANCILLARY RELAYS. PROVIDE AUDIBLE AND VISUAL SIGNAL (SUPERVISION) OF OPERATION OF ANY BY-PASS SWITCH.

1 FIRE ALARM ZONE SCHEDULE
SCALE: N.T.S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DRAWINGS ARE NOT TO BE SCALED.

CONTRACTOR MUST VERIFY ALL DIMENSIONS ON THE JOB AND REPORT ANY DISCREPANCY TO ARCHITECTS BEFORE PROCEEDING WITH WORK.

ALL DRAWINGS AND SPECIFICATIONS ARE THE PROPERTY OF THE ARCHITECT AND MUST BE RETURNED AT THE COMPLETION OF THE WORK.


SEALS

| NO. | ISSUES/REVISIONS | DATE |
|---|---|---|
| 9 | ISSUED FOR TENDER | 2024-05-01 |
| 8 | ISSUED FOR TENDER | 2024-04-29 |
| 7 | RESPONSE TO PERMIT COMMENTS | 2024-03-26 |
| 6 | ISSUED FOR TENDER REVIEW | 2024-03-08 |
| 5 | ISSUED FOR PERMIT | 2024-01-24 |
| 4 | ISSUED FOR 90% CD | 2024-01-19 |
| 3 | ALECTRA COORDINATION | 2023-12-18 |
| 2 | ISSUED FOR DESIGN DEVELOPMENT | 2023-10-06 |
| 1 | ALECTRA SERVICE REQUEST | 2023-08-11 |

DRAWING TITLE:

FIRE ALARM SCHEDULE AND DETAILS

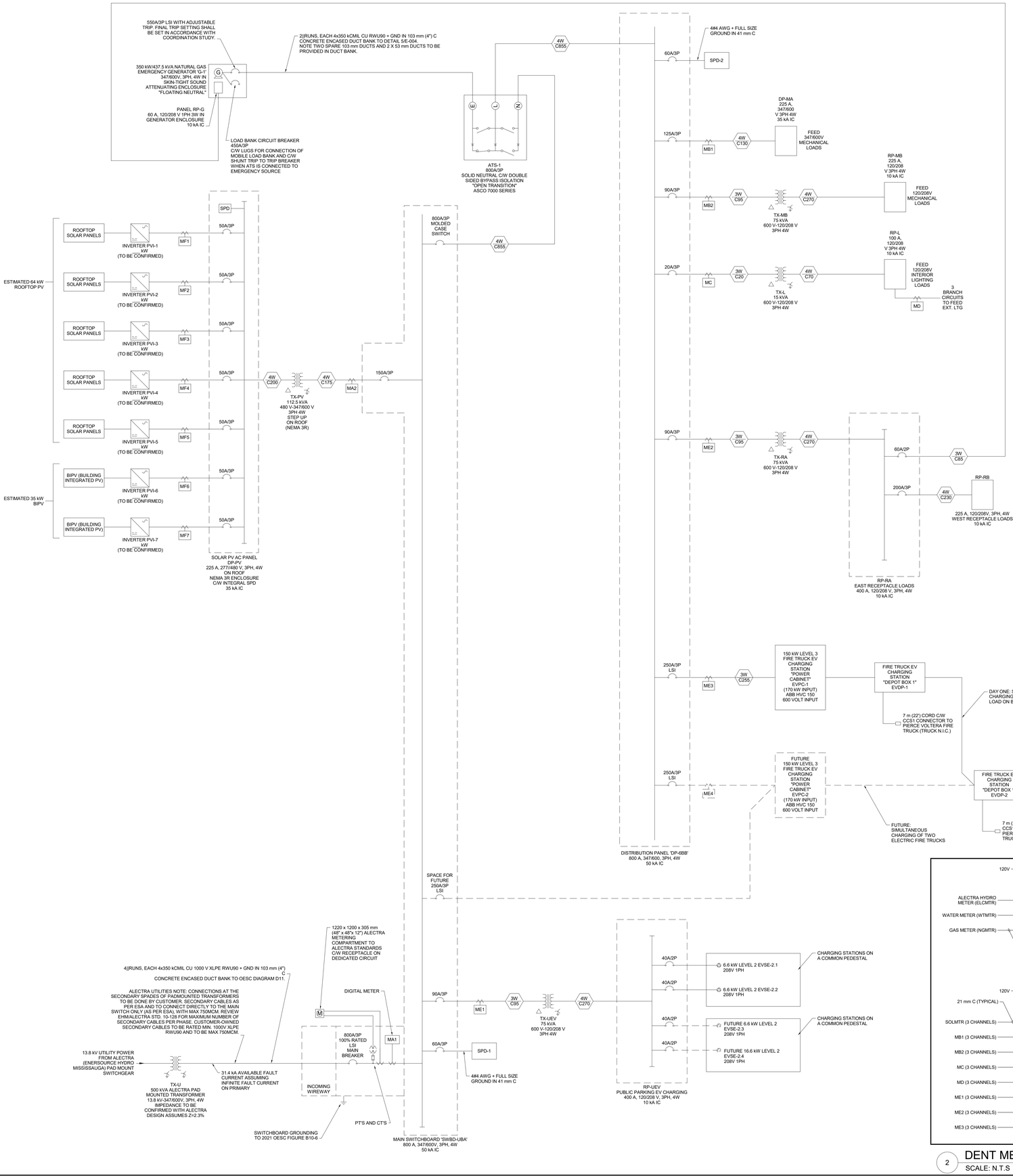
ISSUE DATE: 2024-05-01

DRAWN BY: MS CHECKED BY: CB

PROJECT NO.: CM-22-281 SCALE: As indicated

DRAWING NO.: E-504 REVISION: 9


PLOT DATE: 2024-05-01 8:09:48 PM




ELECTRICAL DISTRIBUTION DESIGNATION DIAGRAM

DP-UMA-11.1
- U - UTILITY POWER ONLY
- LIGHTING CIRCUIT NUMBER/ZONE IDENTIFIER
- CIRCUIT NUMBER
- PANEL NUMBER (SEQUENTIALLY LETTERED). "O" RESERVED FOR EXTERIOR "OUTSIDE" LIGHTING.
- LOAD TYPE:

PANEL OR EQUIPMENT TYPE:
ATS - AUTOMATIC TRANSFER SWITCH
SWBD - SWITCHBOARD (600 VOLT)
DP - 347/600 V DISTRIBUTION PANELBOARD
G - STANDBY GENERATOR
LPS - 347/600 V LIGHTING PANELBOARD
LP - 120/208 V LIGHTING PANELBOARD
RP - 120/208 V RECEPTACLE PANELBOARD
SPD - SURGE PROTECTIVE DEVICE
PVI - SOLAR PV INVERTER

NOTE: "DP", "LP", "RP" MAY BE OMITTED FROM CIRCUIT NUMBERS ON PLANS.

LOAD TYPE:
B - BUILDING
L - LIGHTING
OL - OUTSIDE (EXTERIOR) LIGHTING
M - HVAC
PV - PHOTOVOLTAIC
R - RECEPTACLE

## ELECTRICAL ENERGY MONITORING/METERING SCHEDULE

| | |
|---|---|
| WTMTR | TOTAL DOMESTIC WATER UTILIZATION - UTILITY |
| NGMTR | TOTAL NATURAL GAS UTILIZATION - UTILITY |
| ELCMTR | TOTAL ELECTRICAL ENERGY - UTILITY |
| SOLMTR | TOTAL ELECTRICAL ENERGY - SOLAR PV |
| MB1<br>MB2 | HVAC SYSTEMS |
| MC | INTERIOR LIGHTING |
| MD | EXTERIOR LIGHTING |
| ME1<br>ME2<br>ME3 | RECEPTACLE CIRCUITS |
| ME4 | FUTURE RECEPTACLE CIRCUIT |
| MF1<br>MF2<br>MF3<br>MF4<br>MF5 | ROOFTOP SOLAR ENERGY GENERATION |
| MF6<br>MF7 | BIPV ENERGY GENERATION |
| REFER TO SECTION 26 27 13 FOR ELECTRICITY METERING REQUIREMENTS. | |

## 3-WIRE COPPER FEEDER SCHEDULE

CONDUCTOR TYPE C = COPPER A = ALUMINUM
3W = QUANTITY OF CONDUCTORS PER RUN
C = AMPACITY

| ROW | FEEDER ID | QTY OF PARALLEL RUNS | CONDUCTORS QTY | CONDUCTORS SIZE | BONDING SIZE | CONDUIT SIZE (mm) | CONDUIT SIZE (IN) | CONDUCTOR MATERIAL | AMPACITY PER RUN | AMPACITY TOTAL ALL RUNS | REFERENCE (75 DEG C UNLESS NOTED OTHERWISE) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 3W/C20 | 1 | 3 | #12 AWG | #12 AWG | 21 | 3/4 | COPPER | 20 | 20 | OESC TABLE 2 (60 DEG C) |
| 2 | 3W/C30 | 1 | 3 | #10 AWG | #12 AWG | 21 | 3/4 | COPPER | 30 | 30 | OESC TABLE 2 (60 DEG C) |
| 3 | 3W/C40 | 1 | 3 | #8 AWG | #10 AWG | 27 | 1 | COPPER | 40 | 40 | OESC TABLE 2 (60 DEG C) |
| 4 | 3W/C55 | 1 | 3 | #6 AWG | #10 AWG | 27 | 1 | COPPER | 55 | 55 | OESC TABLE 2 (60 DEG C) |
| 5 | 3W/C70 | 1 | 3 | #4 AWG | #8 AWG | 35 | 1-1/4 | COPPER | 70 | 70 | OESC TABLE 2 (60 DEG C) |
| 6 | 3W/C85 | 1 | 3 | #3 AWG | #8 AWG | 35 | 1-1/4 | COPPER | 85 | 85 | OESC TABLE 2 (60 DEG C) |
| 7 | 3W/C95 | 1 | 3 | #2 AWG | #8 AWG | 35 | 1-1/4 | COPPER | 95 | 95 | OESC TABLE 2 (60 DEG C) |
| 8 | 3W/C130 | 1 | 3 | #1 AWG | #6 AWG | 41 | 1-1/2 | COPPER | 130 | 130 | OESC TABLE 2 |
| 9 | 3W/C150 | 1 | 3 | #1/0 AWG | #6 AWG | 53 | 2 | COPPER | 150 | 150 | OESC TABLE 2 |
| 10 | 3W/C175 | 1 | 3 | #2/0 AWG | #6 AWG | 53 | 2 | COPPER | 175 | 175 | OESC TABLE 2 |
| 11 | 3W/C200 | 1 | 3 | #3/0 AWG | #6 AWG | 53 | 2 | COPPER | 200 | 200 | OESC TABLE 2 |
| 12 | 3W/C230 | 1 | 3 | #4/0 AWG | #4 AWG | 63 | 2-1/2 | COPPER | 230 | 230 | OESC TABLE 2 |
| 13 | 3W/C255 | 1 | 3 | 250 MCM | #4 AWG | 63 | 2-1/2 | COPPER | 255 | 255 | OESC TABLE 2 |
| 14 | 3W/C285 | 1 | 3 | 300 MCM | #4 AWG | 63 | 2-1/2 | COPPER | 285 | 285 | OESC TABLE 2 |
| 15 | 3W/C300 | 2 | 3 | #1/0 AWG | #6 AWG | 53 | 2 | COPPER | 150 | 300 | OESC TABLE 2 |
| 16 | 3W/C310 | 1 | 3 | 350 MCM | #3 AWG | 78 | 3 | COPPER | 310 | 310 | OESC TABLE 2 |
| 17 | 3W/C350 | 2 | 3 | #2/0 AWG | #6 AWG | 53 | 2 | COPPER | 175 | 350 | OESC TABLE 2 |
| 18 | 3W/C380 | 1 | 3 | 500 MCM | #3 AWG | 103 | 4 | COPPER | 380 | 380 | OESC TABLE 2 |
| 19 | 3W/C400 | 2 | 3 | #3/0 AWG | #6 AWG | 53 | 2 | COPPER | 200 | 400 | OESC TABLE 2 |
| 20 | 3W/C460 | 2 | 3 | #4/0 AWG | #4 AWG | 63 | 2-1/2 | COPPER | 230 | 460 | OESC TABLE 2 |
| 21 | 3W/C475 | 1 | 3 | 750 MCM | #2 AWG | 103 | 4 | COPPER | 380 | 475 | OESC TABLE 2 |
| 22 | 3W/C510 | 2 | 3 | 250 MCM | #4 AWG | 63 | 2-1/2 | COPPER | 255 | 510 | OESC TABLE 2 |
| 23 | 3W/C570 | 2 | 3 | 300 MCM | #4 AWG | 63 | 2-1/2 | COPPER | 285 | 570 | OESC TABLE 2 |
| 24 | 3W/C620 | 2 | 3 | 350 MCM | #3 AWG | 78 | 3 | COPPER | 310 | 620 | OESC TABLE 2 |
| 25 | 3W/C760 | 3 | 3 | 250 MCM | #4 AWG | 63 | 2-1/2 | COPPER | 255 | 765 | OESC TABLE 2 |
| 26 | 3W/C855 | 3 | 3 | 300 MCM | #4 AWG | 63 | 2-1/2 | COPPER | 285 | 855 | OESC TABLE 2 |
| 27 | 3W/C855 | 3 | 3 | 300 MCM | #4 AWG | 63 | 2-1/2 | COPPER | 285 | 855 | OESC TABLE 2 |

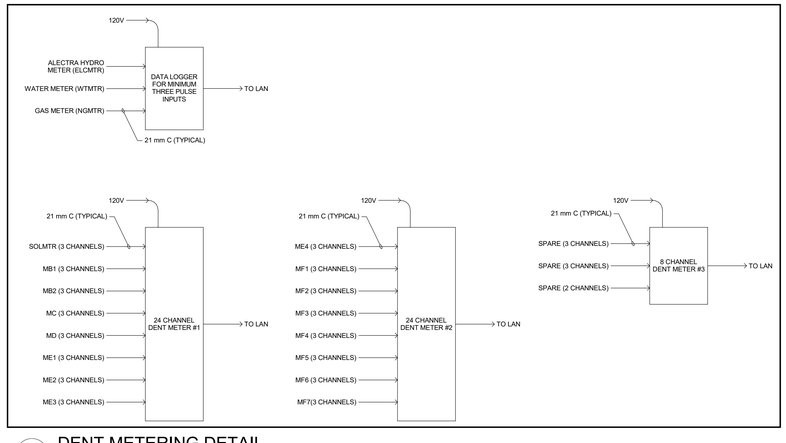
REMARKS:
1. SCHEDULE ASSUMES NO TEMPERATURE RATING INDICATED ON BREAKER LUGS.

## 4-WIRE COPPER FEEDER SCHEDULE

CONDUCTOR TYPE C = COPPER A = ALUMINUM
4W = QUANTITY OF CONDUCTORS PER RUN
C = AMPACITY

| ROW | FEEDER ID | QTY OF PARALLEL RUNS | CONDUCTORS QTY | CONDUCTORS SIZE | BONDING SIZE | CONDUIT SIZE (mm) | CONDUIT SIZE (IN) | CONDUCTOR MATERIAL | AMPACITY PER RUN | AMPACITY TOTAL ALL RUNS | REFERENCE (75 DEG C UNLESS NOTED OTHERWISE) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 4W/C20 | 1 | 4 | #12 AWG | #12 AWG | 21 | 3/4 | COPPER | 20 | 20 | OESC TABLE 2 (60 DEG C) |
| 2 | 4W/C30 | 1 | 4 | #10 AWG | #12 AWG | 21 | 3/4 | COPPER | 30 | 30 | OESC TABLE 2 (60 DEG C) |
| 3 | 4W/C40 | 1 | 4 | #8 AWG | #10 AWG | 27 | 1 | COPPER | 40 | 40 | OESC TABLE 2 (60 DEG C) |
| 4 | 4W/C55 | 1 | 4 | #6 AWG | #10 AWG | 27 | 1 | COPPER | 55 | 55 | OESC TABLE 2 (60 DEG C) |
| 5 | 4W/C70 | 1 | 4 | #4 AWG | #8 AWG | 35 | 1-1/4 | COPPER | 70 | 70 | OESC TABLE 2 (60 DEG C) |
| 6 | 4W/C85 | 1 | 4 | #3 AWG | #8 AWG | 35 | 1-1/4 | COPPER | 85 | 85 | OESC TABLE 2 (60 DEG C) |
| 7 | 4W/C95 | 1 | 4 | #2 AWG | #8 AWG | 35 | 1-1/4 | COPPER | 95 | 95 | OESC TABLE 2 (60 DEG C) |
| 8 | 4W/C130 | 1 | 4 | #1 AWG | #6 AWG | 41 | 1-1/2 | COPPER | 130 | 130 | OESC TABLE 2 |
| 9 | 4W/C150 | 1 | 4 | #1/0 AWG | #6 AWG | 53 | 2 | COPPER | 150 | 150 | OESC TABLE 2 |
| 10 | 4W/C175 | 1 | 4 | #2/0 AWG | #6 AWG | 53 | 2 | COPPER | 175 | 175 | OESC TABLE 2 |
| 11 | 4W/C200 | 1 | 4 | #3/0 AWG | #6 AWG | 53 | 2 | COPPER | 200 | 200 | OESC TABLE 2 |
| 12 | 4W/C230 | 1 | 4 | #4/0 AWG | #4 AWG | 63 | 2-1/2 | COPPER | 230 | 230 | OESC TABLE 2 |
| 13 | 4W/C255 | 1 | 4 | 250 MCM | #4 AWG | 63 | 2-1/2 | COPPER | 255 | 255 | OESC TABLE 2 |
| 14 | 4W/C285 | 1 | 4 | 300 MCM | #4 AWG | 63 | 2-1/2 | COPPER | 285 | 285 | OESC TABLE 2 |
| 15 | 4W/C300 | 2 | 4 | #1/0 AWG | #6 AWG | 53 | 2 | COPPER | 150 | 300 | OESC TABLE 2 |
| 16 | 4W/C310 | 1 | 4 | 350 MCM | #3 AWG | 78 | 3 | COPPER | 310 | 310 | OESC TABLE 2 |
| 17 | 4W/C350 | 2 | 4 | #2/0 AWG | #6 AWG | 53 | 2 | COPPER | 175 | 350 | OESC TABLE 2 |
| 18 | 4W/C380 | 1 | 4 | 500 MCM | #3 AWG | 103 | 4 | COPPER | 380 | 380 | OESC TABLE 2 |
| 19 | 4W/C400 | 2 | 4 | #3/0 AWG | #6 AWG | 53 | 2 | COPPER | 200 | 400 | OESC TABLE 2 |
| 20 | 4W/C460 | 2 | 4 | #4/0 AWG | #4 AWG | 63 | 2-1/2 | COPPER | 230 | 460 | OESC TABLE 2 |
| 21 | 4W/C475 | 1 | 4 | 750 MCM | #2 AWG | 103 | 4 | COPPER | 380 | 475 | OESC TABLE 2 |
| 22 | 4W/C510 | 2 | 4 | 250 MCM | #4 AWG | 63 | 2-1/2 | COPPER | 255 | 510 | OESC TABLE 2 |
| 23 | 4W/C570 | 2 | 4 | 300 MCM | #4 AWG | 63 | 2-1/2 | COPPER | 285 | 570 | OESC TABLE 2 |
| 24 | 4W/C620 | 2 | 4 | 350 MCM | #3 AWG | 78 | 3 | COPPER | 310 | 620 | OESC TABLE 2 |
| 25 | 4W/C760 | 2 | 4 | 500 MCM | #3 AWG | 103 | 4 | COPPER | 380 | 760 | OESC TABLE 2 |
| 26 | 4W/C765 | 3 | 4 | 250 MCM | #4 AWG | 63 | 2-1/2 | COPPER | 255 | 765 | OESC TABLE 2 |
| 27 | 4W/C855 | 3 | 4 | 300 MCM | #4 AWG | 63 | 2-1/2 | COPPER | 285 | 855 | OESC TABLE 2 |
| 28 | 4W/C1860 | 6 | 4 | 350 MCM | #3 AWG | 78 | 3 | COPPER | 310 | 1860 | OESC TABLE 2 |

REMARKS:
1. SCHEDULE ASSUMES NO TEMPERATURE RATING INDICATED ON BREAKER LUGS.




2 DENT METERING DETAIL
SCALE: N.T.S


CITY OF MISSISSAUGA
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TEL: 905-507-0800
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SEALS

| NO. | ISSUES/REVISIONS | DATE |
|---|---|---|
| 8 | ISSUED FOR TENDER | 2024-05-01 |
| 7 | ISSUED FOR TENDER | 2024-04-29 |
| 6 | ISSUED FOR TENDER REVIEW | 2024-03-08 |
| 5 | ISSUED FOR PERMIT | 2024-01-24 |
| 4 | ISSUED FOR 95% CD | 2024-01-19 |
| 3 | ALECTRA COORDINATION | 2023-12-18 |
| 2 | ISSUED FOR DESIGN DEVELOPMENT | 2023-10-06 |
| 1 | ALECTRA SERVICE REQUEST | 2023-08-11 |

DRAWING TITLE:
SINGLE LINE DIAGRAM

ISSUE DATE: 2024-05-01
DRAWN BY: MS CHECKED BY: CB
PROJECT NO.: CM-22-281 SCALE: As indicated
DRAWING NO.: E-601 REVISION: 8

[PLOT DATE: 2024-05-01 09:54 ]

## Branch Panel: RP-L

**Location:** ELECTRICAL ROOM 135
**Supply From:**
**Mounting:**
**Enclosure:**

**Volts:** 120/208 Wye
**Phases:** 3
**Wires:** 4

**A.I.C. Rating:**
**Mains Type:**
**Mains Rating:**
**MCB Rating:**

**Notes:**

| CKT | Circuit Description | QTY | Trip | Poles | A | B | C | A | B | C | Poles | Trip | QTY | Circuit Description | CKT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| L1 | LIGHTING - EXTERIOR | 11 | 15 A | 1 | 352 VA | | | 442 VA | | | 1 | 15 A | 22 | LIGHTING | L2 |
| L3 | LIGHTING | 4 | 15 A | 1 | | 88 VA | | | 1824 VA | | 1 | 15 A | 60 | LIGHTING | L4 |
| L5 | LIGHTING | 25 | 15 A | 1 | | | 847 VA | | | 731 VA | 1 | 15 A | 34 | LIGHTING | L6 |
| L7 | LIGHTING | 3 | 15 A | 1 | 30 VA | | | 1284 VA | | | 1 | 15 A | 6 | LIGHTING | L8 |
| L9 | LIGHTING | 25 | 15 A | 1 | | 1040 VA | | | 80 VA | | 1 | 15 A | 8 | LIGHTING | L10 |
| L11 | LIGHTING | 6 | 15 A | 1 | | | 1284 VA | | | 414 VA | 1 | 15 A | 9 | LIGHTING - EXTERIOR | L12 |
| L13 | LIGHTING - EXTERIOR | 11 | 15 A | 1 | 220 VA | | | | -- | | 1 | -- | -- | SPACE | L14 |
| L15 | SPARE | -- | 15 A | 1 | | 0 VA | | | -- | | 1 | -- | -- | SPACE | L16 |
| L17 | SPARE | -- | 15 A | 1 | | | 0 VA | | | -- | 1 | -- | -- | SPACE | L18 |
| L19 | SPARE | -- | 15 A | 1 | 0 VA | | | | | | | | | | L20 |
| L21 | | | | | | | | | | | | | | | L22 |
| L23 | | | | | | | | | | | | | | | L24 |
| L25 | | | | | | | | | | | | | | | L26 |
| L27 | | | | | | | | | | | | | | | L28 |
| L29 | | | | | | | | | | | | | | | L30 |
| L31 | | | | | | | | | | | | | | | L32 |
| L33 | | | | | | | | | | | | | | | L34 |
| L35 | | | | | | | | | | | | | | | L36 |
| L37 | | | | | | | | | | | | | | | L38 |
| L39 | | | | | | | | | | | | | | | L40 |
| L41 | | | | | | | | | | | | | | | L42 |
| | | | | **Total Load:** | 2319 VA | | 3021 VA | | 3254 VA | | | | | | |
| | | | | **Total Amps:** | 19 A | | 26 A | | 28 A | | | | | | |

**Legend:**

| Load Classification | Connected Load | Demand Factor | Estimated Demand | Panel Totals | |
|---|---|---|---|---|---|
| Other | 2568 VA | 100.00% | 2568 VA | | |
| LIGHTING | 5131 VA | 100.00% | 5131 VA | **Total Conn. Load:** | 8580 VA |
| Lighting - Exterior | 414 VA | 125.00% | 518 VA | **Total Est. Demand:** | 8682 VA |
| POWER | 500 VA | 100.00% | 500 VA | **Total Conn.:** | 24 A |
| | | | | **Total Est. Demand:** | 24 A |
| | | | | | |
| | | | | | |

**Notes:**

## Branch Panel: RP-RB

**Location:**
**Supply From:**
**Mounting:**
**Enclosure:**

**Volts:** 120/208 Wye
**Phases:** 3
**Wires:** 4

**A.I.C. Rating:**
**Mains Type:**
**Mains Rating:**
**MCB Rating:** 1 A

**Notes:**

| CKT | Circuit Description | QTY | Trip | Poles | A | | B | | C | | Poles | Trip | QTY | Circuit Description | CKT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| RB1 | KITCHEN RECEPTACLE | 1 | 20 A | 1 | 180 VA | 500 VA | | | | | 1 | 20 A | 1 | DENT METER POWER | RB2 |
| RB3 | RECEPTACLE | 1 | 15 A | 1 | | | 180 VA | 540 VA | | | 1 | 15 A | 3 | KITCHEN RECEPTACLE | RB4 |
| RB5 | RECEPTACLE | 2 | 15 A | 1 | | | | | 360 VA | 720 VA | 1 | 15 A | 4 | KITCHEN RECEPTACLE | RB6 |
| RB7 | R: HVAC MAINTENANCE ON ROOF | 4 | 20 A | 1 | 720 VA | 1500 VA | | | | | 1 | 20 A | 1 | KITCHEN DISHWASHER | RB8 |
| RB9 | KITCHEN FRIDGE | 1 | 20 A | 1 | | | 1000 VA | 1260 VA | | | 1 | 15 A | 7 | RECEPTACLE | RB10 |
| RB11 | KITCHEN FRIDGE | 1 | 20 A | 1 | | | | | 1000 VA | 1500 VA | 1 | 20 A | 3 | PDO-F 105, PDO- 133, PDO-FC 108 | RB12 |
| RB13 | RECEPTACLE | 14 | 15 A | 1 | 2520 VA | 3240 VA | | | | | 1 | 15 A | 18 | RECEPTACLE | RB14 |
| RB15 | RECEPTACLE | 13 | 15 A | 1 | | | 2340 VA | 3328 VA | | | 2 | 50 A | 1 | KITCHEN STOVE | RB16 |
| RB17 | RECEPTACLE | 13 | 15 A | 1 | | | | | 2340 VA | 3328 VA | | | | | RB18 |
| RB19 | MB-1 | 2 | 20 A | 2 | 180 VA | 180 VA | | | | | 1 | 20 A | 1 | RECEPTACLE WEATHERPROOF | RB20 |
| RB21 | | | | | | | 180 VA | 180 VA | | | 1 | 20 A | 1 | UNIVERSAL WASHROOM POWER | RB22 |
| RB23 | WATER BOTTLE FILLER | 1 | 15 A | 1 | | | | | 180 VA | 540 VA | 1 | 15 A | 3 | RECEPTACLE | RB24 |
| RB25 | RECEPTACLE | 3 | 15 A | 1 | 540 VA | 900 VA | | | | | 1 | 20 A | 1 | KITCHEN MICROWAVE | RB26 |
| RB27 | RECEPTACLE | 3 | 15 A | 1 | | | 540 VA | 900 VA | | | 1 | 20 A | 5 | RECEPTACLE WEATHERPROOF | RB28 |
| RB29 | RECEPTACLE | 5 | 15 A | 1 | | | | | 900 VA | 1000 VA | 1 | 20 A | 2 | PYLON SIGN POWER | RB30 |
| RB31 | PDO-FG 100A, PDO-FG 100B | 2 | 15 A | 1 | 1000 VA | 500 VA | | | | | 1 | 15 A | 1 | SECURITY PANEL | RB32 |
| RB33 | PDO-FG 112A, PDO-FG 112B | 2 | 15 A | 1 | | | 1000 VA | -- | | | 1 | -- | -- | SPACE | RB34 |
| RB35 | PDO-FG 113A, PDO-FG 114A | 2 | 15 A | 1 | | | | | 1000 VA | -- | 1 | -- | -- | SPACE | RB36 |
| RB37 | SPARE | -- | 15 A | 1 | 0 VA | -- | | | | | 1 | -- | -- | SPACE | RB38 |
| RB39 | SPARE | -- | 15 A | 1 | | | 0 VA | -- | | | 1 | -- | -- | SPACE | RB40 |
| RB41 | SPARE | -- | 15 A | 1 | | | | | 0 VA | -- | 1 | -- | -- | SPACE | RB42 |
| RB43 | SPARE | -- | 20 A | 1 | 0 VA | -- | | | | | 1 | -- | -- | SPACE | RB44 |
| RB45 | SPARE | -- | 20 A | 1 | | | 0 VA | | | | | | | | RB46 |
| RB47 | SPARE | -- | 20 A | 1 | | | | | 0 VA | | | | | | RB48 |
| RB49 | | | | | | | | | | | | | | | RB50 |
| RB51 | | | | | | | | | | | | | | | RB52 |
| RB53 | | | | | | | | | | | | | | | RB54 |
| RB55 | | | | | | | | | | | | | | | RB56 |
| RB57 | | | | | | | | | | | | | | | RB58 |
| RB59 | | | | | | | | | | | | | | | RB60 |
| RB61 | | | | | | | | | | | | | | | RB62 |
| RB63 | | | | | | | | | | | | | | | RB64 |
| RB65 | | | | | | | | | | | | | | | RB66 |
| RB67 | | | | | | | | | | | | | | | RB68 |
| RB69 | | | | | | | | | | | | | | | RB70 |
| RB71 | | | | | | | | | | | | | | | RB72 |
| RB73 | | | | | | | | | | | | | | | RB74 |
| RB75 | | | | | | | | | | | | | | | RB76 |
| RB77 | | | | | | | | | | | | | | | RB78 |
| RB79 | | | | | | | | | | | | | | | RB80 |
| RB81 | | | | | | | | | | | | | | | RB82 |
| RB83 | | | | | | | | | | | | | | | RB84 |
| | | | | **Total Load:** | 11960 VA | | 11448 VA | | 12868 VA | | | | | | |
| | | | | **Total Amps:** | 100 A | | 95 A | | 108 A | | | | | | |

**Legend:**

| Load Classification | Connected Load | Demand Factor | Estimated Demand | Panel Totals | |
|---|---|---|---|---|---|
| POWER | 36276 VA | 100.00% | 36276 VA | | |
| | | | | **Total Conn. Load:** | 36276 VA |
| | | | | **Total Est. Demand:** | 36276 VA |
| | | | | **Total Conn.:** | 101 A |
| | | | | **Total Est. Demand:** | 101 A |
| | | | | | |
| | | | | | |

**Notes:**

## Branch Panel: RP-MB

**Location:** MECHANICAL ROOM 132
**Supply From:**
**Mounting:**
**Enclosure:**

**Volts:** 120/208 Wye
**Phases:** 3
**Wires:** 4

**A.I.C. Rating:**
**Mains Type:**
**Mains Rating:**
**MCB Rating:** 1 A

**Notes:**

| CKT | Circuit Description | QTY | Trip | Poles | A | | B | | C | | Poles | Trip | QTY | Circuit Description | CKT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MB1 | FC-13 | 1 | 20 A | 1 | 500 VA | 800 VA | | | | | 1 | 20 A | 4 | CF-1, CF-2, CF-3, CF-4 | MB2 |
| MB3 | FC-10, FC-11 | 2 | 20 A | 2 | | | 500 VA | 750 VA | | | 2 | 20 A | 3 | FC-7, FC-8, FC-9 | MB4 |
| MB5 | | | | | | | | | 500 VA | 750 VA | | | | | MB6 |
| MB7 | UH-4 | 1 | 20 A | 2 | 250 VA | 250 VA | | | | | 2 | 20 A | 1 | UH-3 | MB8 |
| MB9 | | | | | | | 250 VA | 250 VA | | | | | | | MB10 |
| MB11 | P-1 | 1 | 20 A | 1 | | | | | 500 VA | 750 VA | 2 | 20 A | 3 | FC-3, FC-4, FC-5 | MB12 |
| MB13 | UH-2 | 1 | 20 A | 2 | 250 VA | 750 VA | | | | | | | | | MB14 |
| MB15 | | | | | | | 250 VA | 750 VA | | | | | | | MB16 |
| MB17 | P-2 | 1 | 20 A | 1 | | | | | 500 VA | 750 VA | 2 | 20 A | 3 | FC-1, FC-2, FC-6 | MB18 |
| MB19 | TSP-1 | 1 | 20 A | 1 | 500 VA | 500 VA | | | | | 1 | 20 A | 1 | FC-14 | MB20 |
| MB21 | TSP-2 | 1 | 20 A | 1 | | | 500 VA | 500 VA | | | 1 | 20 A | 1 | RH-1 | MB22 |
| MB23 | P-3 | 1 | 20 A | 1 | | | | | 500 VA | 250 VA | 2 | 20 A | 1 | UH-4 | MB24 |
| MB25 | UH-1 | 1 | 20 A | 2 | 250 VA | 250 VA | | | | | | | | | MB26 |
| MB27 | | | | | | | 250 VA | 250 VA | | | 2 | 20 A | 1 | DWHT-1 | MB28 |
| MB29 | | | | | | | | | 167 VA | 250 VA | | | | | MB30 |
| MB31 | UH-7 | 1 | 20 A | 3 | 167 VA | 167 VA | | | | | | | | | MB32 |
| MB33 | | | | | | | 167 VA | 167 VA | | | 3 | 20 A | 1 | UH-8 | MB34 |
| MB35 | | | | | | | | | 167 VA | 167 VA | | | | | MB36 |
| MB37 | UH-6 | 1 | 20 A | 3 | 167 VA | 167 VA | | | | | | | | | MB38 |
| MB39 | | | | | | | 167 VA | 167 VA | | | 3 | 20 A | 1 | UH-9 | MB40 |
| MB41 | CND-1 | 1 | 20 A | 2 | | | | | 1500 VA | 167 VA | | | | | MB42 |
| MB43 | | | | | 1500 VA | 500 VA | | | | | | | | | MB44 |
| MB45 | POWER | 1 | 20 A | 2 | | | 250 VA | 500 VA | | | 2 | 20 A | 1 | ERV-2 | MB46 |
| MB47 | | | | | | | | | 250 VA | 1500 VA | | | | | MB48 |
| MB49 | FC-12 | 1 | 20 A | 2 | 250 VA | 1500 VA | | | | | 2 | 20 A | 1 | CND-2 | MB50 |
| MB51 | | | | | | | 250 VA | 250 VA | | | | | | | MB52 |
| MB53 | DWRPMP-1 | 1 | 20 A | 1 | | | | | 500 VA | 250 VA | 2 | 20 A | 1 | EF-3 | MB54 |
| MB55 | L5 (MOTORIZED DAMPER) | 1 | 20 A | 1 | 500 VA | 2500 VA | | | | | 1 | 20 A | 1 | POWER | MB56 |
| MB57 | L1,2,3 (MOTORIZED DAMPER) | 3 | 20 A | 1 | | | 300 VA | 2500 VA | | | 1 | 20 A | 1 | POWER | MB58 |
| MB59 | POWER | 1 | 20 A | 1 | | | | | 2500 VA | 500 VA | 1 | 20 A | 1 | POWER | MB60 |
| MB61 | POWER | 1 | 20 A | 1 | 500 VA | 500 VA | | | | | 1 | 20 A | 1 | POWER | MB62 |
| MB63 | POWER | 1 | 20 A | 1 | | | 2500 VA | -- | | | 1 | -- | -- | SPACE | MB64 |
| MB65 | SPARE | -- | 15 A | 1 | | | | | 0 VA | -- | 1 | -- | -- | SPACE | MB66 |
| MB67 | SPARE | -- | 15 A | 1 | 0 VA | -- | | | | | 1 | -- | -- | SPACE | MB68 |
| MB69 | SPARE | -- | 15 A | 1 | | | 0 VA | -- | | | 1 | -- | -- | SPACE | MB70 |
| MB71 | SPARE | -- | 20 A | 1 | | | | | 0 VA | -- | 1 | -- | -- | SPACE | MB72 |
| MB73 | SPARE | -- | 20 A | 1 | 0 VA | -- | | | | | 1 | -- | -- | SPACE | MB74 |
| MB75 | SPARE | -- | 20 A | 1 | | | 0 VA | -- | | | 1 | -- | -- | SPACE | MB76 |
| MB77 | SPARE | -- | 20 A | 1 | | | | | 0 VA | -- | 1 | -- | -- | SPACE | MB78 |
| MB79 | SPARE | -- | 20 A | 1 | 0 VA | -- | | | | | 1 | -- | -- | SPACE | MB80 |
| MB81 | SPARE | -- | 20 A | 1 | | | 0 VA | -- | | | 1 | -- | -- | SPACE | MB82 |
| MB83 | SPARE | -- | 20 A | 1 | | | | | 0 VA | -- | 1 | -- | -- | SPACE | MB84 |
| | | | | **Total Load:** | 12717 VA | | 11467 VA | | 12417 VA | | | | | | |
| | | | | **Total Amps:** | 107 A | | 96 A | | 105 A | | | | | | |

**Legend:**

| Load Classification | Connected Load | Demand Factor | Estimated Demand | Panel Totals | |
|---|---|---|---|---|---|
| POWER | 36600 VA | 100.00% | 36600 VA | | |
| | | | | **Total Conn. Load:** | 36600 VA |
| | | | | **Total Est. Demand:** | 36600 VA |
| | | | | **Total Conn.:** | 102 A |
| | | | | **Total Est. Demand:** | 102 A |
| | | | | | |
| | | | | | |

**Notes:**

## Branch Panel: RP-UEV

**Location:** MECHANICAL ROOM 132
**Supply From:**
**Mounting:**
**Enclosure:**

**Volts:** 120/208 Wye
**Phases:** 3
**Wires:** 4

**A.I.C. Rating:**
**Mains Type:**
**Mains Rating:**
**MCB Rating:**

**Notes:**

| CKT | Circuit Description | QTY | Trip | Poles | A | B | C | A | B | C | Poles | Trip | QTY | Circuit Description | CKT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| UEV1 | EV CHARGER | 1 | 40 A | 2 | 250 VA | | | 250 VA | | | 2 | 40 A | 1 | EV CHARGER | UEV2 |
| UEV3 | | | | | | 250 VA | | | 250 VA | | | | | | UEV4 |
| UEV5 | EV CHARGER | 1 | 40 A | 2 | | | 250 VA | | | 250 VA | 2 | 40 A | 1 | EV CHARGER | UEV6 |
| UEV7 | | | | | 250 VA | | | 250 VA | | | | | | | UEV8 |
| UEV9 | SPARE | -- | 15 A | 1 | | 0 VA | | | -- | | 1 | -- | -- | SPACE | UEV10 |
| UEV11 | SPARE | -- | 20 A | 1 | | | 0 VA | | | -- | 1 | -- | -- | SPACE | UEV12 |
| UEV13 | | | | | | | | | | | | | | | UEV14 |
| UEV15 | | | | | | | | | | | | | | | UEV16 |
| UEV17 | | | | | | | | | | | | | | | UEV18 |
| UEV19 | | | | | | | | | | | | | | | UEV20 |
| UEV21 | | | | | | | | | | | | | | | UEV22 |
| UEV23 | | | | | | | | | | | | | | | UEV24 |
| UEV25 | | | | | | | | | | | | | | | UEV26 |
| UEV27 | | | | | | | | | | | | | | | UEV28 |
| UEV29 | | | | | | | | | | | | | | | UEV30 |
| UEV31 | | | | | | | | | | | | | | | UEV32 |
| UEV33 | | | | | | | | | | | | | | | UEV34 |
| UEV35 | | | | | | | | | | | | | | | UEV36 |
| UEV37 | | | | | | | | | | | | | | | UEV38 |
| UEV39 | | | | | | | | | | | | | | | UEV40 |
| UEV41 | | | | | | | | | | | | | | | UEV42 |
| | | | | **Total Load:** | 1000 VA | | 500 VA | | 500 VA | | | | | | |
| | | | | **Total Amps:** | 8 A | | 4 A | | 4 A | | | | | | |

**Legend:**

| Load Classification | Connected Load | Demand Factor | Estimated Demand | Panel Totals | |
|---|---|---|---|---|---|
| POWER | 2000 VA | 100.00% | 2000 VA | | |
| | | | | **Total Conn. Load:** | 2000 VA |
| | | | | **Total Est. Demand:** | 2000 VA |
| | | | | **Total Conn.:** | 6 A |
| | | | | **Total Est. Demand:** | 6 A |
| | | | | | |
| | | | | | |

**Notes:**


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SEALS

| NO. | ISSUES/REVISIONS | DATE |
|---|---|---|
| 8 | ISSUED FOR TENDER | 2024-05-01 |
| 7 | ISSUED FOR TENDER | 2024-04-29 |
| 6 | ISSUED FOR TENDER REVIEW | 2024-03-08 |
| 5 | ISSUED FOR PERMIT | 2024-01-24 |
| 4 | ISSUED FOR 99% CD | 2024-01-19 |
| 3 | ALECTRA COORDINATION | 2023-12-18 |
| 2 | ISSUED FOR DESIGN DEVELOPMENT | 2023-10-06 |
| 1 | ALECTRA SERVICE REQUEST | 2023-08-11 |

DRAWING TITLE:

ELECTRICAL PANELBOARD SCHEDULES I

ISSUE DATE: 2024-05-01

DRAWN BY: MS CHECKED BY: CB

PROJECT NO.: CM-22-281 SCALE:

DRAWING NO.: E-602 REVISION: 8


PLOT DATE: 2024-05-01 5:10:04 PM

# Branch Panel: DP-MA

**Location:** ELECTRICAL ROOM 135
**Supply From:**
**Mounting:**
**Enclosure:**

**Volts:** 347/600V
**Phases:** 3
**Wires:** 4

**A.I.C. Rating:**
**Mains Type:**
**Mains Rating:**
**MCB Rating:**

**Notes:**

| CKT | Circuit Description | QTY | Trip | Poles | A | B | C | A | B | C | Poles | Trip | QTY | Circuit Description | CKT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MA1 | | | | | 167 VA | | | 5000 VA | | | | | | | MA2 |
| MA3 | B-1 | 1 | 20 A | 3 | | 167 VA | | | 5000 VA | | 3 | 20 A | 1 | HP-2 | MA4 |
| MA5 | | | | | | | 167 VA | | | 5000 VA | | | | | MA6 |
| MA7 | | | | | 5000 VA | | | 1667 VA | | | | | | | MA8 |
| MA9 | HP-1 | 1 | 20 A | 3 | | 5000 VA | | | 1667 VA | | 3 | 20 A | 1 | EF-1 | MA10 |
| MA11 | | | | | | | 5000 VA | | | 1667 VA | | | | | MA12 |
| MA13 | | | | | 500 VA | | | 167 VA | | | | | | | MA14 |
| MA15 | EF-2 | 1 | 20 A | 3 | | 500 VA | | | 167 VA | | 3 | 20 A | 1 | ENGINE EXHAUST CONTROL PANEL (PCI) | MA16 |
| MA17 | | | | | | | 500 VA | | | 167 VA | | | | | MA18 |
| MA19 | | | | | 6667 VA | | | 6167 VA | | | | | | | MA20 |
| MA21 | AIR COMPRESSOR | 1 | 20 A | 3 | | 6667 VA | | | 6167 VA | | 3 | 20 A | 1 | ERV-1 | MA22 |
| MA23 | | | | | | | 6667 VA | | | 6167 VA | | | | | MA24 |
| MA25 | SPARE | -- | 15 A | 1 | 0 VA | | | -- | | | 1 | -- | -- | SPACE | MA26 |
| MA27 | SPARE | -- | 15 A | 1 | | 0 VA | | | -- | | 1 | -- | -- | SPACE | MA28 |
| MA29 | SPARE | -- | 15 A | 1 | | | 0 VA | | | -- | 1 | -- | -- | SPACE | MA30 |
| MA31 | SPARE | -- | 20 A | 1 | 0 VA | | | -- | | | 1 | -- | -- | SPACE | MA32 |
| MA33 | SPARE | -- | 20 A | 1 | | 0 VA | | | -- | | 1 | -- | -- | SPACE | MA34 |
| MA35 | | | | | | | | | | | | | | | MA36 |
| MA37 | | | | | | | | | | | | | | | MA38 |
| MA39 | | | | | | | | | | | | | | | MA40 |
| MA41 | | | | | | | | | | | | | | | MA42 |
| | | | **Total Load:** | | 25333 VA | | 25333 VA | | 25333 VA | | | | | | |
| | | | **Total Amps:** | | 73 A | | 73 A | | 73 A | | | | | | |

**Legend:**

| Load Classification | Connected Load | Demand Factor | Estimated Demand | Panel Totals | |
|---|---|---|---|---|---|
| POWER | 76000 VA | 100.00% | 76000 VA | | |
| | | | | **Total Conn. Load:** | 76000 VA |
| | | | | **Total Est. Demand:** | 76000 VA |
| | | | | **Total Conn.:** | 73 A |
| | | | | **Total Est. Demand:** | 73 A |

**Notes:**

# Branch Panel: RP-RA

**Location:** ELECTRICAL ROOM 135
**Supply From:**
**Mounting:**
**Enclosure:**

**Volts:** 120/208 Wye
**Phases:** 3
**Wires:** 4

**A.I.C. Rating:**
**Mains Type:**
**Mains Rating:**
**MCB Rating:** 1 A

**Notes:**

| CKT | Circuit Description | QTY | Trip | Poles | A | | B | | C | | Poles | Trip | QTY | Circuit Description | CKT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| RA1 | CORD REEL (GFCI BREAKER) | 1 | 20 A | 1 | 500 VA | 167 VA | | | | | | | | | RA2 |
| RA3 | CORD REEL (GFCI BREAKER) | 1 | 20 A | 1 | | | 500 VA | 167 VA | | | 3 | 200 A | 1 | RP-RB | RA4 |
| RA5 | BAS PANEL - 2 | 1 | 20 A | 1 | | | | | 500 VA | 167 VA | | | | | RA6 |
| RA7 | CORD REEL (GFCI BREAKER) | 1 | 20 A | 1 | 500 VA | 500 VA | | | | | 1 | 20 A | 1 | CORD REEL (GFCI BREAKER) | RA8 |
| RA9 | RECEPTACLE | 12 | 15 A | 1 | | | 2160 VA | 540 VA | | | 1 | 20 A | 3 | POWER | RA10 |
| RA11 | LAUNDRY DRYER | 1 | 20 A | 2 | | | | | 2496 VA | 720 VA | 1 | 15 A | 4 | RECEPTACLE | RA12 |
| RA13 | | | | | 2496 VA | 180 VA | | | | | 1 | 20 A | 1 | GEAR DRYER 1 | RA14 |
| RA15 | | | | | | | 167 VA | 180 VA | | | 1 | 20 A | 1 | GEAR DRYER 2 | RA16 |
| RA17 | FFD 130B POWER | 1 | 15 A | 3 | | | | | 167 VA | 180 VA | 1 | 20 A | 1 | LAUNDRY WASHER | RA18 |
| RA19 | | | | | 167 VA | 167 VA | | | | | | | | | RA20 |
| RA21 | | | | | | | 167 VA | 167 VA | | | 3 | 15 A | 1 | FFD 130A POWER | RA22 |
| RA23 | FFD 130D POWER | 1 | 15 A | 3 | | | | | 167 VA | 167 VA | | | | | RA24 |
| RA25 | | | | | 167 VA | 167 VA | | | | | | | | | RA26 |
| RA27 | | | | | | | 833 VA | 167 VA | | | 3 | 15 A | 1 | FFD 130C POWER | RA28 |
| RA29 | WASHER/EXTRACTOR | 1 | 20 A | 3 | | | | | 833 VA | 167 VA | | | | | RA30 |
| RA31 | | | | | 833 VA | -- | | | | | 1 | -- | -- | SPACE | RA32 |
| RA33 | RECEPTACLE | 6 | 15 A | 1 | | | 1080 VA | -- | | | 1 | -- | -- | SPACE | RA34 |
| RA35 | SPARE | -- | 15 A | 1 | | | | | 0 VA | -- | 1 | -- | -- | SPACE | RA36 |
| RA37 | SPARE | -- | 15 A | 1 | 0 VA | -- | | | | | 1 | -- | -- | SPACE | RA38 |
| RA39 | SPARE | -- | 15 A | 1 | | | 0 VA | -- | | | 1 | -- | -- | SPACE | RA40 |
| RA41 | SPARE | -- | 20 A | 1 | | | | | 0 VA | -- | 1 | -- | -- | SPACE | RA42 |
| RA43 | SPARE | -- | 20 A | 1 | 0 VA | | | | | | | | | | RA44 |
| RA45 | SPARE | -- | 20 A | 1 | | | 0 VA | | | | | | | | RA46 |
| RA47 | | | | | | | | | | | | | | | RA48 |
| RA49 | | | | | | | | | | | | | | | RA50 |
| RA51 | | | | | | | | | | | | | | | RA52 |
| RA53 | | | | | | | | | | | | | | | RA54 |
| RA55 | | | | | | | | | | | | | | | RA56 |
| RA57 | | | | | | | | | | | | | | | RA58 |
| RA59 | | | | | | | | | | | | | | | RA60 |
| | | | **Total Load:** | | 5843 VA | | 6127 VA | | 5563 VA | | | | | | |
| | | | **Total Amps:** | | 49 A | | 51 A | | 46 A | | | | | | |

**Legend:**

| Load Classification | Connected Load | Demand Factor | Estimated Demand | Panel Totals | |
|---|---|---|---|---|---|
| POWER | 17532 VA | 100.00% | 17532 VA | | |
| | | | | **Total Conn. Load:** | 17532 VA |
| | | | | **Total Est. Demand:** | 17532 VA |
| | | | | **Total Conn.:** | 49 A |
| | | | | **Total Est. Demand:** | 49 A |

**Notes:**


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SEALS

| NO. | ISSUES/REVISIONS | DATE |
|---|---|---|
| 8 | ISSUED FOR TENDER | 2024-05-01 |
| 7 | ISSUED FOR TENDER | 2024-04-29 |
| 6 | ISSUED FOR TENDER REVIEW | 2024-03-08 |
| 5 | ISSUED FOR PERMIT | 2024-01-24 |
| 4 | ISSUED FOR 99% CD | 2024-01-19 |
| 3 | ALECTRA COORDINATION | 2023-12-18 |
| 2 | ISSUED FOR DESIGN DEVELOPMENT | 2023-10-06 |
| 1 | ALECTRA SERVICE REQUEST | 2023-08-11 |

DRAWING TITLE:

ELECTRICAL PANELBOARD SCHEDULES II

ISSUE DATE: 2024-05-01

DRAWN BY: Author CHECKED BY: Checker

PROJECT NO.: CM-22-281 SCALE:

DRAWING NO.: E-603 REVISION: 8

[PLOT DATE: 2024-05-01 5:10:13 PM]

| Section | Title | Tag | Floor | Location | Function | Qty if >1 | Volts | Phase | Qty Eqpm If >1 | HP | Watts | kW | FLA | MCA | LRA | MOCP | Hardwired | Receptacle | Supplied with Local Disconnect by Mfgr | Em. Power LS | Em Power NLS | Fire Alarm Shutdown | Remarks |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 22 11 23 | Domestic Hot Water Pumps | DHWT-1 | 1 | Mechanical Room 132 | Domestic Booster Pump | | 208 | 1 | | | | 4.5 | | | | | X | | | | X | | |
| 22 11 23 | Domestic Hot Water Re-Circulation Pump | DWRPMP-1 | 1 | Mechanical Room 132 | Re-Circulation Pump | | 120 | 1 | | | | 4.5 | | | | | X | | | | X | | |
| 22 47 00 | Bottle Filling Station | BF-1 | 1 | Computer Workstation 129 | wall mounted | | 120 | 1 | | | | | | | | 15 | | X | | | | | |
| 23 21 23 | In-floor Heating Pump | P-2 | 1 | Mechanical Room 132 | | | 120 | 1 | | | | 0.1 | | | | | X | | | | X | | |
| 23 21 23 | In-floor Heating Pump | P-3 | 1 | Mechanical Room 132 | | | 120 | 1 | | | | 0.3 | | | | | | | | | | | |
| 23 34 00 | Kitchen Range Hood | RH-1 | 1 | Kitchen 126 | | | 115 | 1 | | | | | | | | | X | | | | X | | |
| 23 34 00 | Exhaust Fans | EF-1 | R | Engine Exhaust | | | 575 | 3 | | | | 0.373 | | | | | X | | | | | | |
| 23 34 00 | Exhaust Fans | EF-2 | R | Garage Exhaust | | | 575 | 3 | | | | 1.491 | | | | | X | | | | | | |
| 23 34 00 | Exhaust Fans | EF-3 | R | Laundry Exhaust | | | 575 | 3 | | | | 0.186 | | | | | X | | | | | | |
| 23 34 00 | Exhaust Fans | EF-4 | R | Bunker Gear Room Exhaust | | | 575 | 3 | | | | 0.186 | | | | | X | | | | X | | |
| 23 34 00 | Wall Mounted Fans | WF-1 | R | Bunker Gear Room | | | 575 | 3 | | | | 0.373 | | | | | X | | | | | | |
| 23 34 00 | Wall Mounted Fans | WF-2 | R | Bunker Gear Room | | | 575 | 3 | | | | 1.491 | | | | | X | | | | | | |
| 23 34 00 | Wall Mounted Fans | WF-3 | R | Hose Room | | | 575 | 3 | | | | 0.186 | | | | | X | | | | | | |
| 23 34 00 | Wall Mounted Fans | WF-4 | R | Laundry Room | | | 575 | 3 | | | | 0.186 | | | | | X | | | | | X | | |
| 23 34 00 | Garage Ceiling Fan | CF-1 | 1 | Apparatus Bay - 130 | Celling Fan | | 208 | 1 | | | | | | | | | X | | | | | X | X | |
| 23 34 00 | Garage Ceiling Fan | CF-2 | 1 | Apparatus Bay - 130 | Celling Fan | | 208 | 1 | | | | | | | | | X | | | | | X | X | |
| 23 34 00 | Garage Ceiling Fan | CF-3 | 1 | Apparatus Bay - 130 | Celling Fan | | 208 | 1 | | | | | | | | | X | | | | | | X | |
| 23 34 00 | Garage Ceiling Fan | CF-4 | 1 | Apparatus Bay - 130 | Celling Fan | | 208 | 1 | | | | | | | | | X | | | | | | X | |
| 23 52 13 | Electric Boiler | B-1 | 1 | Mechanical Room 132 | | | 575 | 3 | | | | 47 | 47.19... | | | 60 | X | | | | | | |
| 23 81 26 | Outdoor AC Unit | CND-1 | R | Roof | Roof Mounted Condensing Unit | | 208 | 1 | | | | 2.3 | 11 | 11 | | 30 | X | | | | X | | |
| 23 81 26 | Outdoor AC Unit | CND-2 | R | Roof | Roof Mounted Condensing Unit | | 208 | 1 | | | | 2.3 | 11 | 11 | | 30 | X | | | | X | | |
| 23 81 26 | VRF Condensing units | HP-1 | R | Roof | Roof Mounted Condensing Unit | | 575 | 3 | | | | | | 15 | | 20 | X | | | | X | | |
| 23 81 26 | VRF Condensing units | HP-2 | R | Roof | Roof Mounted Condensing Unit | | 575 | 3 | | | | | | 15 | | 20 | X | | | | X | | |
| 23 81 29 | Variable Refrigerant Flow Systems | FC-1 | 1 | Captains Office - 103 | VRF Fan Coil Units | | 208 | 1 | | | | | | 2.94 | | | X | | | | X | | |
| 23 81 29 | Variable Refrigerant Flow Systems | FC-2 | 1 | District Chief - 102 | VRF Fan Coil Units | | 208 | 1 | | | | | | 1.75 | | 15 | X | | | | X | | |
| 23 81 29 | Variable Refrigerant Flow Systems | FC-3 | 1 | Access Corridor - 111 | VRF Fan Coil Units | | 208 | 1 | | | | | | 2.94 | | 15 | X | | | | X | | |
| 23 81 29 | Variable Refrigerant Flow Systems | FC-4 | 1 | Linen Storage - 147 | VRF Fan Coil Units | | 208 | 1 | | | | | | 2.88 | | 15 | X | | | | X | | |
| 23 81 29 | Variable Refrigerant Flow Systems | FC-5 | 1 | Locker Room -119 | VRF Fan Coil Units | | 208 | 1 | | | | | | 2.94 | | 15 | X | | | | X | | |
| 23 81 29 | Variable Refrigerant Flow Systems | FC-6 | 1 | Access Corridor - 101 | VRF Fan Coil Units | | 208 | 1 | | | | | | 2.13 | | 15 | X | | | | X | | |
| 23 81 29 | Variable Refrigerant Flow Systems | FC-7 | 1 | Kitchen -126 | VRF Fan Coil Units | | 208 | 1 | | | | | | 2.13 | | 15 | X | | | | X | | |
| 23 81 29 | Variable Refrigerant Flow Systems | FC-8 | 1 | Dinning Area - 127 | VRF Fan Coil Units | | 208 | 1 | | | | | | 2.94 | | 15 | X | | | | X | | |
| 23 81 29 | Variable Refrigerant Flow Systems | FC-9 | 1 | Day Room Lounge - 144 | VRF Fan Coil Units | | 208 | 1 | | | | | | 4.38 | | 15 | X | | | | X | | |
| 23 81 29 | Variable Refrigerant Flow Systems | FC-10 | 1 | Bunker Room - 138 | VRF Fan Coil Units | | 208 | 1 | | | | | | 2.94 | | 15 | X | | | | X | | |
| 23 81 29 | Variable Refrigerant Flow Systems | FC-11 | 1 | Lundry - 137 | VRF Fan Coil Units | | 208 | 1 | | | | | | 1.75 | | 15 | X | | | | X | | |
| 23 81 29 | Variable Refrigerant Flow Systems | FC-12 | 1 | Captains Office - 104 | VRF Fan Coil Units | | 208 | 1 | | | | | | 2.13 | | 15 | X | | | | X | | |
| 23 81 29 | Variable Refrigerant Flow Systems | FC-13 | 1 | I.T. Room 123 | VRF Fan Coil Units | | 208 | 1 | | | | | | 11 | | 30 | X | | | | X | | |
| 23 81 29 | Variable Refrigerant Flow Systems | FC-14 | 1 | Electrical Room 135 | VRF Fan Coil Units | | 208 | 1 | | | | | | 11 | | 30 | X | | | | X | | |
| 23 82 39 | Cabinet Unit Heaters | UH-1 | 1 | Vestibule-100 | wall mounted - Recessed | | 208 | 1 | | | | 2 | | | | | X | | | | | | |
| 23 82 39 | Cabinet Unit Heaters | UH-2 | 1 | Vestibule-133 | wall mounted- Recessed | | 208 | 1 | | | | 2 | | | | | X | | | | | | |
| 23 82 39 | Cabinet Unit Heaters | UH-3 | 1 | Staff Vestibule - 112 | Ceiling mounted- Recessed | | 208 | 1 | | | | 2 | | | | | X | | | | | | |
| 23 82 39 | Cabinet Unit Heaters | UH-4 | 1 | Dayroom Lounge -128 | wall mounted | | 208 | 1 | | | | 2 | | | | | X | | | | | | |
| 23 82 39 | Cabinet Unit Heaters | UH-5 | 1 | Outdoor Storage - 142 | wall mounted- Recessed | | 208 | 1 | | | | 5 | | | | | X | | | | | | |
| 23 82 39 | Cabinet Unit Heaters | UH-6 | 1 | Apparatus Bay - 130 | Ceiling Hung | | 208 | 3 | | | | 7.5 | | | | | X | | | | | | |
| 23 82 39 | Cabinet Unit Heaters | UH-7 | 1 | Apparatus Bay - 130 | Ceiling Hung | | 208 | 3 | | | | 7.5 | | | | | X | | | | | | |
| 23 82 39 | Cabinet Unit Heaters | UH-8 | 1 | Apparatus Bay - 130 | Ceiling Hung | | 208 | 3 | | | | 7.5 | | | | | X | | | | | | |
| 23 82 39 | Cabinet Unit Heaters | UH-9 | 1 | Apparatus Bay - 130 | Ceiling Hung | | 208 | 3 | | | | 7.5 | | | | | X | | | | | | |
| 25 05 01 | Building Automation System | BAS-1 | 1 | Mechanical Room 132 | wall mounted | | 120 | 1 | | | | | | | | 15 | X | | | | X | | |
| 25 05 01 | Building Automation System | BAS-2 | 1 | Water Meter/Sprinkler Room 134 | wall mounted | | 120 | 1 | | | | | | | | 15 | X | | | | X | | |


MISSISSAUGA

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DRAWINGS ARE NOT TO BE SCALED.

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SEALS

| NO. | ISSUES/REVISIONS | DATE |
|---|---|---|
| 8 | ISSUED FOR TENDER | 2024-05-01 |
| 7 | ISSUED FOR TENDER | 2024-04-29 |
| 6 | ISSUED FOR TENDER REVIEW | 2024-03-08 |
| 5 | ISSUED FOR PERMIT | 2024-01-24 |
| 4 | ISSUED FOR 99% CD | 2024-01-19 |
| 3 | ALECTRA COORDINATION | 2023-12-18 |
| 2 | ISSUED FOR DESIGN DEVELOPMENT | 2023-10-06 |
| 1 | ALECTRA SERVICE REQUEST | 2023-08-11 |

DRAWING TITLE:

EQUIPMENT WIRING SCHEDULE

ISSUE DATE: 2024-05-01

DRAWN BY: MS CHECKED BY: CB

PROJECT NO.: CM-22-281 SCALE:

DRAWING NO.: REVISION:

E-604 8


PLOT DATE: 2024-05-01 5:10:02 PM

## Lighting Controls Matrix

| | | | | Controls Philosophy | | | | | Local Control... | | | | | Occupancy Sensor | | | | | | | Time Schedule | | | Daylight... | | | Other | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Room # | Room Name or Type | ASHRAE 90.1-2013 Space Type | Same as | Controls Integrated into Luminaires | Line Voltage Controls | Standalone Control Devices | Network Lighting Controls | Building Automation System Lighting Controls | Manual (On/Off) One zone only for space | Manual (On/Off) a, b Zoned switching | Manual Dimming Control | Key Switch (KS) | Scene Control (SC) or Graphic Touchscreen | Vacancy Mode (Manual On) (ASHRAE 90.1 2013 9.4.1.1b) | Occupancy Mode (Auto On) (Full On) | Occuancy Mode (Auto On) (Partial on to Max 50%) | Automatic Partial Off Sensor Time Out (Minutes) (ASHRAE 90.1-2013 9.4.1.1g) | Automatic Partial Off Luminaire Dimming Level | Full Off Sensor Time Out (Minutes) (ASHRAE 90.1-2013 9.4.1.1h) | Scheduled On Time | Scheduled Off Time | Scheudle Override Switch | Open Loop (Switching On/Off) | Closed Loop (Dimming) | Target Lighting Levels (lux or fc) | Reduce light levels by 50% between midnight at 6am | Exterior Location | Plug Load Control | Controlled Emergency | Remarks |
| 100 | Vestibule | Corridor, all other corridors | | | X | | | | | | | | | | X | | | | 20 mins | | | | | | | | | | | |
| 101 | Access Corridor | Corridor, all other corridors | 100 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 102 | District Chief | Office and Dorm | | | | | | X | | | X | | | X | | | | | N/A | | | | | | | | | | | Disable Sensor. |
| 103 | Captain's Office 103 | Office and Dorm | 102 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 104 | Captain's Office 104 | Office and Dorm | 102 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 105 | Universal Washroom 105 | Restroom, all other restrooms | | | X | | | | X | | | | | | X | | | | 20 mins | | | | | | | | | | | |
| 106 | Access Corridor 106 | Corridor, all other corridors | 100 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 107 | Gym 107 | Gymnasium/Fitness Centre, exercise area | | | X | | | | X | | | | | | X | | | | 20 mins | | | | | | | X | | | | |
| 108 | Access Corridor 108 | Corridor, all other corridors | 100 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 109 | Clean Laundry 109 | Laundry/Washing Area | | | | | | | X | | | | | | | | | | | | | | | | | | | | | |
| 110 | Janitor's Closet 110 | Storage | | | X | | | | X | | | | | | | | | | 20 mins | | | | | | | | | | | |
| 111 | Access Corridor 111 | Corridor, all other corridors | 100 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 112 | Staff Vestibule 112 | Corridor, all other corridors | 100 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 113 | Dormitory 113 | Fire Station - Sleeping Quarters | | | X | | | | | | X | | | | | | | | | | | | | | | | | | | |
| 114 | Access Corridor 114 | Corridor, all other corridors | 100 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 115 | Washroom/Shower 115 | Restroom, all other restrooms | 105 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 116 | Washroom/Shower 116 | Restroom, all other restrooms | 105 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 117 | Washroom/Shower 117 | Restroom, all other restrooms | 105 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 118 | Washroom/Shower 118 | Restroom, all other restrooms | 105 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 119 | Locker Room 119 | Locker Room | | | | | | X | X | | | | | | | X | | | 20 mins | | | | | | | | | | | |
| 120 | Change Room 120 | Locker Room | 119 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 121 | Change Room 121 | Locker Room | 119 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 122 | Access Corridor 122 | Corridor, all other corridors | 100 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 123 | I.T. Room 123 | Computer Room | | | | | | X | X | | | | | | | X | | | 20 mins | | | | | | | | | | | |
| 124 | Access Corridor 124 | Corridor, all other corridors | 100 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 125 | Access Corridor 125 | Corridor, all other corridors | 100 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 126 | Kitchen 126 | Food Preparation Area | | | | | | X | X | | | | | | | X | | | 20 mins | | | | | | | | | | | |
| 127 | Dining Area 127 | Dining area, all other dining areas | | | | | | X | X | | | | | | | X | | | 20 mins | | | | | | | | | | | |
| 128 | Dayroom Lounge 128 | Lounge/Breakroom, all other | | | | | | X | X | | | | | | | X | | | 20 mins | | | | | | | | | X | | |
| 129 | Computer Workstation 129 | | | | | | | X | | | | | | | | | | | | | | | | | | | | | | Part of adjacent space. Use sensor in Dining Room. |
| 130 | Apparatus Bay 130 | Emergency Vehicle Garage | | | | | | X | | X | | | | | X | | | | 20 mins | | | | | X | 800 lux | | | | | |
| 131 | Janitors 131 | Storage | 110 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 132 | Mechanical Room 132 | Electrical/Mechanical Room | | | X | | | | X | | | | | | | | | | | | | | | | | | | | | |
| 133 | Bay Vestibule 133 | Corridor, all other corridors | 100 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 134 | Water Meter/Sprinkler Room 134 | Electrical/Mechanical Room | | | X | | | | X | | | | | | | | | | | | | | | | | | | | | |
| 135 | Electrical Room 135 | Electrical/Mechanical Room | | | X | | | | | | | | | | | | | | | | | | | | | | | | | |
| 136 | Workshop 136 | Workshop | | | | | | X | X | | | | | | | X | | | 20 mins | | | | | | | | | | | |
| 137 | Laundry 137 | Laundry/Washing Area | | | | | | X | X | | | | | | | X | | | 20 mins | | | | | | | | | | | |
| 138 | Bunker Gear Room 138 | Storage Room | | | X | | | | X | | | | | | | | | | 20 mins | | | | | | | | | | | |
| 139 | Hose Room 139 | Storage Room | 138 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 140 | Compressor Room 140 | Storage Room | 138 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 141 | Material Storage 141 | Storage Room | 138 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 142 | Outdoor Storage 142 | Storage Room | 138 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| E1 | Exterior Parking Areas and Drives | Exterior | | | | X | | | | | | | | | | | | | | Sunset | Sunrise | | | | | | | | | Provide photocell with contactor |
| E2 | Exterior Illuminated Signage | Exterior | | | | X | | | | | | | | | | | | | | Sunset | Sunrise | | | | | | | | | Provide photocell with contactor |
| E3 | Exterior Wall Packs East Wall | Exterior | | | | X | | | | | | | | | | | | | | Sunset | Sunrise | | | | | | | | | Provide photocell with contactor.... |

## Lighting Fixture Schedule

LIGHTING FIXTURE SCHEDULE NOTES:
1. UNLESS NOTED OTHERWISE, ACCEPTABLE SUBSTITUTE MANUFACTURES AND SUPPLIERS:
   - COOPER LIGHTING SOLUTIONS
   - CREE (TPL LIGHTING)
   - CURRENT LIGHTING (FORMERLY HUBBELL) (OMNILUMEN)
   - SIGNIFY (FORMERLY PHILIPS) (SALEX)
   - LUMENPULSE (TORONTO LIGHTWORKS)
2. WHERE AN INCOMPLETE MODEL/CAT NO. IS LISTED, MANUFACTURERS/SUPPLIERS MUST CONFIRM THE PROPOSED FIXTURE WITH THE CONSULTANT A MINIMUM OF ONE WEEK PRIOR TO TENDER CLOSE.
3. SUBMIT SHOP DRAWINGS FOR CONSULTANT'S REVIEW PRIOR TO PLACING ANY ORDER.
4. ALL LIGHT FIXTURES MUST BEAR A CERTIFICATION OR LISTING MARK FROM A CERTIFICATION BODY ACCREDITED BY THE STANDARDS COUNCIL OF CANADA. I.E., CSA, cUL, cETL, ETC.

| Type | DESCRIPTION | MANUFACTURER | CATALOG NO. | VOLTAGE | WATTS | LUMEN PACKAGE | CONTROLS | CRI | CCT | MOUNTING | MOUNTING HEIGHT | SUBSTITUTIONS | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| D6B | 4.5" Recessed Downlight (Suitable for Wet Locations) | 3G LIGHTING | 3G-DL45RF-22-H90-35K-60D (Wet Location Rated) | 120 V | 22 W | 1827 | 0-10V | 90 | 3500 K | RECESSED | <varies> | Alphabet NU4-20LM, COOPER HALO HC6 | |
| D6C | 4.5" Recessed Downlight | 3G LIGHTING | 3G-DL45RF-10-H90-35K-60D | 120 V | 10 W | 1031 | 0-10V | 90 | 3500 K | RECESSED | <varies> | Alphabet NU4-10LM, COOPER HALO HC6 | |
| D6D | 3.3" Recessed Downlight | 3G LIGHTING | 3G-DL33RF70-15-H90-35K-60D | 120 V | 14 W | 1212 | 0-10V | 90 | 3500 K | RECESSED | 2750 mm | Alphabet NU3-15LM, COOPER HALO HC4 | |
| HBA | Round Highbay Fixtures | CREE LIGHTING | VUE-A-UV-24L-35K9-M-UL-10V | 120 V | 151 W | 23500 | 0-10V | 90 | 3500 K | SUSPENDED | 5450 mm | CURRENT LIGHTING/Albeo ABN1 Series, COOPER METALUX UHBS Series | |
| SP4A | 4ft Pendant Linear LED | CREE LIGHTING | LS4-40L-35K | 120 V | 31 W | 4000 | 0-10V | 90 | 3500 K | SUSPENDED | <varies> | CURRENT LIGHTING/COLUMBIA MPS, COOPER METALUX SNX Lensed | |
| SP4B | 4ft Pendant Linear LED | CREE LIGHTING | LS4-60L-35K | 120 V | 45 W | 6000 | 0-10V | 90 | 3500 K | SUSPENDED | <varies> | CURRENT LIGHTING/COLUMBIA MOD 3L-P-D, COOPER METALUX SNX Lensed | |
| SP8A | 8ft Pendant Linear LED | 3G LIGHTING | 3G-4PLI-D-L1000-H90-35K-FL-8FT | 120 V | 65 W | 7990 | 0-10V | 90 | 3500 K | SUSPENDED | 3900 mm | CURRENT LIGHTING/COLUMBIA MOD 3L-P-D, COOPER Neo-Ray Define 4 | |
| SP8B | 8ft Pendant Linear LED | 3G LIGHTING | 3G-4PLI-D-L750-H90-35K-FL-8FT | 120 V | 48 W | 6000 | 0-10V | 90 | 3500 K | SUSPENDED | 2340 mm | CURRENT LIGHTING/COLUMBIA MOD 3L-P-D, COOPER Neo-Ray Define 4 | |
| SR4A | 4ft Recessed Linear LED | 3G LIGHTING | 3G-4RLI-L750-H90-35K-FL-4FT | 120 V | 24 W | 3004 | 0-10V | 90 | 3500 K | RECESSED | 2750 mm | CURRENT LIGHTING/COLUMBIA MOD 3L-R-D, COOPER Neo-Ray Define 4 | |
| SR4B | 4ft Recessed Linear LED | 3G LIGHTING | 3G-4RLI-L1000-H90-35K-FL-4FT | 120 V | 32 W | 4005 | 0-10V | 90 | 3500 K | RECESSED | 2750 mm | CURRENT LIGHTING/COLUMBIA MOD 3L-R-D, COOPER Neo-Ray Define 4 | |
| SR8 | 8ft Recessed Linear LED | 3G LIGHTING | 3G-4PLI-D-L1000-H90-35K-FL-8FT | 120 V | 65 W | 7990 | 0-10V | 90 | 3500 K | RECESSED | 3900 mm | CURRENT LIGHTING/COLUMBIA MOD 3L-R-D, COOPER Neo-Ray Define 4 | |
| STA | LED Step Light | MP LIGHTING | L36-3-W30S | 120 V | 3 W | 200 | 0-10V | 90 | 3500 K | SURFACE | 300 mm | AMICO LUNAR SERIES | |
| UCL1 | Under Cabinet LED fixture | SOLID STATE LUMINAIRES | UNLE-2-35K-WH | 120 V | 12 W | 300lm/ft | 0-10V | 80 | 3500 K | SURFACE | <varies> | CURRENT LIGHTING/COLUMBIA CUC, COOPER HALO HU30M | |
| WSA | 3ft Wall Sconce | 3G LIGHTING | 3G-4WLI-D-L500-H90-35K-DASY-3FT | 120 V | 12 W | 1500 | 0-10V | 90 | 3500 K | WALL | 2136 mm | CURRENT LIGHTING/COLUMBIA MOD 3L-W-D, COOPER Neo-Ray Define 4 | |
| ZA1 | Pole Mounted LED Fixture | CREE LIGHTING | ARE-EDR-4MB-04-E-350-30K | 120 V | 46 W | 5003 | 0-10V | 80 | 3000 K | POLE-MOUNTED | REFER TO PLAN | CURRENT LIGHTING/BEACON VIPER, COOPER Invue MSA MESA | |
| ZA2 | Pole Mounted LED Fixture | CREE LIGHTING | ARE-EDR-4M-04-E-350-30K | 120 V | 46 W | 5003 | 0-10V | 80 | 3000 K | POLE-MOUNTED | REFER TO PLAN | CURRENT LIGHTING/BEACON VIPER, COOPER Invue MSA MESA | |
| ZDA | 6" Recessed Downlight | 3G LIGHTING | 3G-DL45RF-22-H90-35K-60D | 120 V | 22 W | 1827 | 0-10V | 90 | 3500 K | RECESSED | REFER TO PLAN | Alphabet NU4-20LM, COOPER HALO HC6 | |
| ZW1 | Wall Mounted LED Fixture | CREE LIGHTING | SEC-EDG-4M-02-E-525-30K | 120 V | 37 W | 3550 | 0-10V | 80 | 3000 K | WALL | REFER TO PLAN | CURRENT LIGHTING/BEACON QSP2, COOPER McGraw-Edison | |
| ZW2 | Wall Mounted LED Fixture | CREE LIGHTING | SEC-EDG-3M-02-E-525-30K | 120 V | 37 W | 3365 | 0-10V | 80 | 3000 K | WALL | REFER TO PLAN | CURRENT LIGHTING/BEACON QSP2, COOPER McGraw-Edison | |
| ZW3 | Wall Mounted LED Fixture | CREE LIGHTING | SEC-EDG-3M-02-E-525-30K | 120 V | 25 W | 2501 | 0-10V | 80 | 3000 K | WALL | REFER TO PLAN | CURRENT LIGHTING/BEACON QSP2, COOPER McGraw-Edison | |
| ZW4 | Wall Washer | ECOSENSE LIGHTING | L50-I-12-06-30-80-MULT-9x59 | 120 V | 2 W | 139 | 0-10V | 80 | 3000 K | WALL | REFER TO PLAN | ACCLAIM XTR SERIES, COOPER iO LED CoviO Graze | |
| ZWW | Wall Washer | ECOSENSE LIGHTING | L50-I-12-06-30-80-MULT-70x70 | 120 V | 6 W | 614 | 0-10V | 80 | 3000 K | WALL | REFER TO PLAN | ACCLAIM XTR SERIES, COOPER iO LED CoviO Graze | |

## SCHEDULE 26 06 50.19 - EMERGENCY LIGHTING AND EXIT SIGN SCHEDULE

| SYMBOL | TYPE | DESCRIPTION | MANUFACTURER AND PRODUCT SERIES | VOLTAGE | LAMPS | MOUNTING | SPEC SECTION | REMARKS |
|---|---|---|---|---|---|---|---|---|
| | E1 | SINGLE REMOTE HEAD. | -LUMACELL MQM-1-24V20W-CSA SERIES<br>-EMERGILITE EF9M SERIES | 24V | 1x6W MR16 | WALL SURFACE | 26 52 13.13 | |
| | E2 | DOUBLE REMOTE HEAD. | -LUMACELL MQM-2-24V20W-CSA SERIES<br>-EMERGILITE EF9M SERIES | 24V | 2x6W MR16 | WALL SURFACE | 26 52 13.13 | |
| | BU-1<br>BU-2 | EMERGENCY LIGHTING BATTERY UNIT C/W AUTO TEST, TWO REMOTE HEADS, AND SIX-ZONE VOLTAGE SENSING RELAY. | -LUMACELL RG24S-360-AT-VSR SERIES<br>-EMERGILITE ESL SERIES | 120V-347V IN 24V OUT | 2x6W MR16 | WALL SURFACE | 26 52 13.13 | |
| | X1 | PLASTIC PICTOGRAM EXIT SIGN, UNIVERSAL MOUNTING, FACTORY WHITE FINISH. | -LUMACELL LP SERIES<br>-STANPRO RMPN SERIES | SEE NOTE 2 | 3W LED | CEILING OR WALL, SURFACE | 26 52 13.16 | |
| | X2 | SAME AS X1, DOUBLE FACE | | SEE NOTE 2 | 3W LED | CEILING OR WALL, SURFACE | 26 52 13.16 | |

EMERGENCY LIGHTING FIXTURE AND EXIT SIGN SCHEDULE NOTES:
1. WHERE AN INCOMPLETE MODEL/CAT NO. IS LISTED, MANUFACTURERS/SUPPLIES MUST CONFIRM THE PROPOSED FIXTURE WITH THE CONSULTANT A MINIMUM OF ONE WEEK PRIOR TO TENDER CLOSE.
2. EXIT SIGNS SHALL BE CAPABLE OF UNIVERSAL 120/347V AC AND 6 TO 48V DC INPUT. BATTERY UNITS SHALL BE CAPABLE OF UNIVERSAL 120/347V AC INPUT.
3. FOR EXIT SIGNS, REFER TO ARROWS AND NUMBER OF SHADED FACES AS DIRECTED ON LIGHTING LAYOUT. WHERE ARROWS INDICATE TWO DIRECTIONS, PROVIDE TWO PICTOGRAM STYLE EXIT SIGNS.
4. SUBMIT SHOP DRAWINGS FOR CONSULTANT'S REVIEW PRIOR TO PLACING ANY ORDER.
5. ACCEPTABLE MANUFACTURERS AS NOTED IN SECTION 26 52 13.13 AND SECTION 26 52 13.16.
6. REMOTE HEADS CERTIFIED TO CSA C22.2 No. 141.
7. CBCB - "CENTRE BEAM CANDLE POWER."
8. CONFIRM RECOMMENDED SPACING WITH EMERGENCY LIGHTING MANUFACTURER PRIOR TO START OF ROUGH-IN.
9. WHERE AN EXIT SIGN IS TO BE INSTALLED IN AN AREA WITH NO CEILING, PROVIDE SUITABLE PENDANT MOUNT SUCH THAT THE SIGN IS VISIBLE AND NOT OBSCURED.


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| 2 | ISSUED FOR DESIGN DEVELOPMENT | 2023-10-06 |
| 1 | ALECTRA SERVICE REQUEST | 2023-08-11 |

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SCHEDULES FOR LIGHTING

ISSUE DATE: 2024-05-01

DRAWN BY: MS CHECKED BY: CB

PROJECT NO.: CM-22-281 SCALE: 1 : 100

DRAWING NO.: REVISION:

E-605 9


PLOT DATE: 2024-05-01 5:10:54 PM

| GENERAL | |
|---|---|
| SYMBOL | DESCRIPTION |
| | EXISTING TO REMAIN |
| | EXISTING TO BE DEMOLISHED |
| R | EXISTING TO BE REMOVED FOR RELOCATION |
| R | EXISTING RELOCATED IN NEW WORK |
| | NEW WORK |
| CTE | CONNECT TO EXISTING |
| | AIRFLOW / PIPE FLOW DIRECTION |
| | PIPE TURNING DOWN |
| | PIPE TURNING UP |
| | PRESSURE REDUCING VALVE |
| | ROOM THERMOSTAT |
| | ROOM HUMIDISTAT |
| | PUMP |
| | CONTROL VALVE - TWO WAY |
| | CONTROL VALVE - THREE WAY |
| | ISOLATION VALVE |
| | BALANCING VALVE |
| | CHECK VALVE |
| | STRAINER - OVER 50MM WITH VALVED FLUSHING DRAIN |
| | PIPE BRANCH OFF TOP |
| | PIPE BRANCH OFF BOTTOM |
| | RELIEF VALVE |
| | PRESSURE GAUGE |
| | TEMPERATURE GAUGE |
| CAP | CAP |
| | SOLENOID VALVE |
| | FUSIBLE LINK VALVE |
| | HEAT TRACING |

## EQUIPMENT ABBREVIATIONS

| SYMBOL | DESCRIPTION |
|---|---|
| AC | AIR COMPRESSOR |
| ARC | AIR CURTAIN |
| AHU | AIR HANDLING UNIT |
| BB | BASEBOARD HEATER |
| B | BOILER |
| CUH | CABINET UNIT HEATER |
| CH | CHILLER |
| C | CONDENSER |
| CAV | CONSTANT AIR VOLUME BOX |
| CC | COOLING COIL |
| DWH | DOMESTIC WATER HEATER |
| EF | EXHAUST FAN |
| FCU | FAN COIL UNIT |
| FFH | FORCED FLOW HEATER |
| GSHP | GROUND SOURCE HEAT PUMP |
| HEX | HEAT EXCHANGER |
| HP | HEAT PUMP |
| HC | HEATING COIL |
| P | PUMP |
| PHC | PRE-HEAT COIL |
| RP | RADIANT PANEL |
| RHC | RE-HEAT COIL |
| RF | RETURN FAN |
| RTU | ROOFTOP UNIT |
| SF | SUPPLY FAN |
| UH | UNIT HEATER |
| VAV | VARIABLE AIR VOLUME BOX |

NOTE: REFER TO FLOOR PLANS FOR EQUIPMENT PROFILES, DIMENSIONS AND ORIENTATIONS

| HEATING & COOLING PIPING | |
|---|---|
| SYMBOL | DESCRIPTION |
| CNDR | CONDENSATE DRAIN |
| PC | PUMPED CONDENSATE |
| REFR | REFRIGERANT GAS |
| REFS | REFRIGERANT LIQUID |
| V | VENT |
| | UNION |
| | MANUAL AIR VENT |
| | AUTOMATIC AIR VENT |
| | EXPANSION COMPENSATOR |
| | EXPANSION LOOP |
| | PIPE ANCHOR |
| | PIPE GUIDE |
| | PIPE SLEEVE |
| | STEAM CONDENSATE TRAP |
| BBH- # | BASEBOARD HEATER |
| CUH | CABINET UNIT HEATER |
| UH | UNIT HEATER |

| PLUMBING | |
|---|---|
| SYMBOL | DESCRIPTION |
| SAN | SANITARY DRAINAGE - ABOVE GROUND |
| SAN | SANITARY DRAINAGE - UNDERGROUND |
| SAN(AR) | SANITARY DRAINAGE (ACID RESISTANT) - ABOVE GROUND |
| SAN(AR) | SANITARY DRAINAGE (ACID RESISTANT) - UNDERGROUND |
| STM | STORM DRAINAGE - ABOVE GROUND |
| STM | STORM DRAINAGE - UNDERGROUND |
| PD | PUMPED DISCHARGE |
| | DOMESTIC COLD WATER SUPPLY |
| | DOMESTIC HOT WATER SUPPLY |
| | DOMESTIC HOT WATER RECIRC. |
| TW | TEMPERED WATER |
| AWV | ACID RESISTANT VENT |
| V | VENT |
| G | GAS |
| RO | REVERSE OSMOSIS PIPING |
| ISO | RADIO ISOTOPE DRAIN |
| CA | COMPRESSED AIR |
| RT | RUNNING TRAP |
| | P-TRAP |
| ES-1 | EMERGENCY SHOWER |
| EW-1 | EYE WASH |
| CO | CLEANOUT IN FLOOR/BELOW GRADE |
| CO | CLEANOUT IN CEILING |
| HB | HOSE BIBB |
| NFHB | NON FREEZE HOSE BIBB |
| G | SINGLE GAS OUTLET |
| G | DOUBLE GAS OUTLET |
| CA | COMPRESSED AIR OUTLET |
| RH | ROOF HYDRANT |
| GH | GROUND HYDRANT |
| RD | ROOF DRAIN |
| CFRD | CONTROL FLOW ROOF DRAIN |
| VTR | VENT THROUGH ROOF |
| RWL | RAIN WATER LEADER |
| TSP | TRAP SEAL PRIMER |
| | SCUPPER DRAIN |
| MH | MANHOLE |
| CB | CATCH BASIN |
| TD | TRENCH GRATE & FRAME |
| AD | AREA DRAIN |
| FFD | FUNNEL FLOOR DRAIN |
| FD | FLOOR DRAIN |
| HD | HUB DRAIN |
| FS | FLOOR SINK |
| FRD | FLOOR DRAIN - FLUSHING RIM |
| M | WATER METER ASSEMBLY |
| G | GAS METER |
| | BACK WATER VALVE |
| BFP | BACKFLOW PREVENTER |
| "WC-1" | DENOTES FIXTURE TYPE PER SPECIFICATION |

| FIRE PROTECTION | |
|---|---|
| SYMBOL | DESCRIPTION |
| SP | SPRINKLER LINE |
| FM | FIRE MAIN |
| F | STANDPIPE |
| SV | SUPERVISED VALVE |
| WFA | WATER FLOW ALARM |
| PS | PRESSURE SWITCH |
| TM | TEST CONNECTION |
| | SPRINKLER FIRE DEPARTMENT CONNECTION |
| | PRESSURE SWITCH<br>WATER FLOW ALARM<br>EXCESS PRESSURE PUMP<br>WET ALARM CHECK VALVE<br>TEST & DRAIN VALVE |
| | WATER FLOW ALARM<br>PRESSURE SWITCH<br>DRY ALARM CHECK VALVE<br>TEST & DRAIN VALVE |
| | AIR COMPRESSOR |
| SVC | SPRINKLER VALVE CABINET |
| FEC | FIRE EXTINGUISHER CABINET |
| FHC | FIRE HOSE CABINET |
| F | FIRE EXTINGUISHER C/W WALL BRACKET |
| PIV | POST-INDICATOR VALVE |
| | FIRE HYDRANT C/W SHUT-OFF VALVE |
| | PENDENT SPRINKLER HEAD |
| | UPRIGHT SPRINKLER HEAD |
| | CONCEALED SPRINKLER HEAD |
| | FIRE SUPPRESSION (CLEAN AGENT) SPRINKLER HEAD |
| | SIDEWALL SPRINKLER HEAD |
| | FIRE DEPARTMENT CONNECTION |

| VENTILATION | |
|---|---|
| SYMBOL | DESCRIPTION |
| FD | FUSIBLE LINK FIRE DAMPER (DOUBLE LINE) |
| FD | FUSIBLE LINK FIRE DAMPER (SINGLE LINE) |
| BDD | BACK DRAFT DAMPER (DOUBLE LINE) |
| BDD | BACK DRAFT DAMPER (SINGLE LINE) |
| BD | BALANCING DAMPER (DOUBLE LINE) |
| BD | BALANCING DAMPER (SINGLE LINE) |
| M | MOTORIZED DAMPER (DOUBLE LINE) |
| M | MOTORIZED DAMPER (SINGLE LINE) |
| 600x300 | RECTANGULAR DUCTWORK - DIMENSIONS AS SHOWN |
| 600Ø | ROUND DUCTWORK - DIMENSION AS SHOWN |
| 600x300 | DUCTWORK (SINGLE LINE) - DIMENSION AS SHOWN |
| | RECTANGULAR SUPPLY/OUTDOOR AIR DUCT UP |
| | RECTANGULAR EXHAUST/RETURN AIR DUCT UP |
| | CIRCULAR SUPPLY/OUTDOOR AIR DUCT UP |
| | RECTANGULAR SUPPLY/OUTDOOR AIR DUCT DOWN |
| | RECTANGULAR EXHAUST/RETURN AIR DUCT DOWN |
| | CIRCULAR SUPPLY/OUTDOOR AIR DUCT DOWN |
| | CIRCULAR EXHAUST/RETURN AIR DUCT DOWN |
| | MITRED ELBOW WITH TURNING VANES |
| | DUCT RISE (DOUBLE LINE) |
| | DUCT RISE (SINGLE LINE) |
| | SUPPLY GRILLE - DIMENSIONS AS SHOWN ON SCHEDULE |
| | EXHAUST/RETURN GRILLE - DIMENSIONS AS SHOWN ON SCHEDULE |
| | CEILING SUPPLY AIR DIFFUSER - DIMENSIONS AS SHOWN ON SCHEDULE |
| | LINEAR SLOT DIFFUSER - DIMENSIONS AS SHOWN ON SCHEDULE |
| | CEILING EXHAUST/RETURN GRILLE - DIMENSIONS AS SHOWN ON SCHEDULE |
| | SUPPLY AIR ROUND DIFFUSER |
| | BRANCH TAKE-OFF WITH ADJUSTABLE SPLITTER DAMPER IN SUPPLY DUCT (DOUBLE LINE) |
| | BRANCH TAKE-OFF WITH ADJUSTABLE SPLITTER DAMPER IN SUPPLY DUCT (SINGLE LINE) |
| O.E.D. | OPEN ENDED DUCT WITH BALANCING DAMPER AND BELLMOUTH. DIRECTION AS SHOWN (DOUBLE LINE) |
| O.E.D. | OPEN ENDED DUCT WITH BALANCING DAMPER AND BELLMOUTH. DIRECTION AS SHOWN (SINGLE LINE) |
| | FLEXIBLE DUCT CONNECTION |
| | ACOUSTICALLY LINED DUCTWORK (DOUBLE LINE) |
| | DUCT SILENCER |
| | FLEXIBLE DUCT (DOUBLE LINE)<br>FLEXIBLE DUCT (SINGLE LINE) |
| | FLEXIBLE DUCT CONNECTION WITH BALANCING DAMPER ON TAKE-OFF |
| 400x400 400Ø | DUCT TRANSITION FROM RECTANGULAR TO ROUND |
| | RECTANGULAR DUCT BREAK |
| | ROUND DUCT BREAK |
| | SINGLE LINE DUCT BREAK |
| | TRANSFER AIR DUCT |
| U/C | 75mm (3/4") DOOR UNDERCUT |

| CONTROLS | |
|---|---|
| SYMBOL | DESCRIPTION |
| SF | SUPPLY FAN |
| RF | RETURN FAN |
| EF | EXHAUST FAN |
| H/C | HEATING COIL |
| C/C | COOLING COIL |
| P/C | PRE-HEAT COIL |
| | FILTERS |
| | HUMIDIFIER |
| | AIRFLOW / FLUID DIRECTION |
| MD | MOTORIZED DAMPER |
| | MANUAL ISOLATION DAMPER |
| MCC | MOTOR CONTROL CENTRE |
| LDU | LOCAL DISPLAY UNIT |
| CONTROLLER | MANUFACTURER SUPPLIED EQUIPMENT CONTROLLER |
| STARTER | MOTOR STARTER |
| VFD | VARIABLE FREQUENCY DRIVE |
| NO | NORMALLY OPEN |
| NC | NORMALLY CLOSED |
| | NORMALLY CLOSED CONTACT |
| | NORMALLY OPEN CONTACT |
| FS | FLOW SWITCH |
| LS | LEVEL SWITCH |
| TS | TEMPERATURE SWITCH |
| PS | PRESSURE SWITCH |
| DP | DIFFERENTIAL PRESSURE SWITCH |
| DS | DOOR SWITCH |
| NC | ACTUATOR NORMALLY CLOSED DE-ENERGIZED POSITION |
| NO | ACTUATOR NORMALLY OPEN DE-ENERGIZED POSITION |
| | ACTUATOR FAIL OPEN POSITION |
| | ACTUATOR FAIL CLOSED POSITION |
| FL | ACTUATOR FAIL LAST POSITION |
| | TWO-POSITION ACTUATOR |
| | MODULATING ACTUATOR |
| P | PRESSURE SENSOR |
| DP | DIFFERENTIAL PRESSURE SENSOR |
| VS | VELOCITY SENSOR |
| VP | VELOCITY PRESSURE SENSOR |
| H | HUMIDITY SENSOR |
| T | TEMPERATURE SENSOR |
| OS | OCCUPANCY SENSOR |
| CO | CARBON MONOXIDE SENSOR |
| $CO_2$ | CARBON DIOXIDE SENSOR |
| $NO_x$ | DIESEL NITROGEN OXIDE SENSOR |
| $O_2$ | OXYGEN SENSOR |
| AS | AIRFLOW STATION |
| GS | GAS SENSOR (GENERAL) |
| GDP | GAS DETECTION & ALARM PANEL |
| ZVB/AP | ZONE VALVE BOX & ALARM PANEL |
| | VISUAL INDICATOR ALARM |
| | AUDIBLE INDICATOR ALARM |
| BAS | BUILDING AUTOMATION SYSTEM |
| AI | ANALOG INPUT |
| AO | ANALOG OUTPUT |
| DI | DIGITAL INPUT |
| DO | DIGITAL OUTPUT |
| AP | BAS ADJUSTABLE SET POINT |
| BV | BACNET VARIABLE |
| HOA | HAND-OFF-AUTO |
| | CONTROL WIRING |

## MECHANICAL DRAWING LIST



| DRAWING # | DRAWING NAME |
|---|---|
| M-001 | MECHANICAL LEGEND & DRAWING LIST |
| M-101 | MECHANICAL SITE PLAN |
| M-200 | FOUNDATION PLAN - PLUMBING AND DRAINAGE |
| M-201 | LEVEL 01 PLAN - PLUMBING AND DRAINAGE |
| M-202 | ROOF PLAN - PLUMBING AND DRAINAGE |
| M-301 | LEVEL 01 PLAN - VENTILATION |
| M-302 | ROOF PLAN - VENTILATION |
| M-303 | ALTERNATIVE PRICE #1 |
| M-304 | REFRIGERANT PIPING |
| M-401 | LEVEL 01 PLAN - FIRE PROTECTION |
| M-602 | HYDRONIC SYSTEM SCHEMATIC |
| M-603 | VRF SCHEMATIC |
| M-610 | MECHANICAL EQUIPMENT SCHEDULE I |
| M-611 | MECHANICAL EQUIPMENT SCHEDULE II |
| M-641 | MECHANICAL DETAILS I |
| M-642 | MECHANICAL DETAILS II |
| M-643 | MECHANICAL DETAILS III |
| M-644 | MECHANICAL DETAILS IV |
| M-645 | MECHANICAL DETAILS V |
| M-650 | CONTROL SEQUENCES I |



## CONTROLS

| SYMBOL | DESCRIPTION |
|---|---|
| SF | SUPPLY FAN |
| RF | RETURN FAN |
| EF | EXHAUST FAN |
| H/C | HEATING COIL |
| C/C | COOLING COIL |
| P/C | PRE-HEAT COIL |
| | FILTERS |
| | HUMIDIFIER |
| | AIRFLOW / FLUID DIRECTION |
| MD | MOTORIZED DAMPER |
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| LDU | LOCAL DISPLAY UNIT |
| CONTROLLER | MANUFACTURER SUPPLIED EQUIPMENT CONTROLLER |
| STARTER | MOTOR STARTER |
| VFD | VARIABLE FREQUENCY DRIVE |
| NO | NORMALLY OPEN |
| NC | NORMALLY CLOSED |
| | NORMALLY CLOSED CONTACT |
| | NORMALLY OPEN CONTACT |
| FS | FLOW SWITCH |
| LS | LEVEL SWITCH |
| TS | TEMPERATURE SWITCH |
| PS | PRESSURE SWITCH |
| DP | DIFFERENTIAL PRESSURE SWITCH |
| DS | DOOR SWITCH |
| NC | ACTUATOR NORMALLY CLOSED DE-ENERGIZED POSITION |
| NO | ACTUATOR NORMALLY OPEN DE-ENERGIZED POSITION |
| | ACTUATOR FAIL OPEN POSITION |
| | ACTUATOR FAIL CLOSED POSITION |
| FL | ACTUATOR FAIL LAST POSITION |
| | TWO-POSITION ACTUATOR |
| | MODULATING ACTUATOR |
| P | PRESSURE SENSOR |
| DP | DIFFERENTIAL PRESSURE SENSOR |
| VS | VELOCITY SENSOR |
| VP | VELOCITY PRESSURE SENSOR |
| H | HUMIDITY SENSOR |
| T | TEMPERATURE SENSOR |
| OS | OCCUPANCY SENSOR |
| CO | CARBON MONOXIDE SENSOR |
| $CO_2$ | CARBON DIOXIDE SENSOR |
| $NO_x$ | DIESEL NITROGEN OXIDE SENSOR |
| $O_2$ | OXYGEN SENSOR |
| AS | AIRFLOW STATION |
| GS | GAS SENSOR (GENERAL) |
| GDP | GAS DETECTION & ALARM PANEL |
| ZVB/AP | ZONE VALVE BOX & ALARM PANEL |
| | VISUAL INDICATOR ALARM |
| | AUDIBLE INDICATOR ALARM |
| BAS | BUILDING AUTOMATION SYSTEM |
| AI | ANALOG INPUT |
| AO | ANALOG OUTPUT |
| DI | DIGITAL INPUT |
| DO | DIGITAL OUTPUT |
| AP | BAS ADJUSTABLE SET POINT |
| BV | BACNET VARIABLE |
| HOA | HAND-OFF-AUTO |
| | CONTROL WIRING |


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| 4 | ISSUED FOR 99% CD | 2024-01-19 |
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| 2 | ISSUED FOR DESIGN DEVELOPMENT | 2023-10-06 |
| 1 | ALECTRA SERVICE REQUEST | 2023-08-11 |

DRAWING TITLE:

MECHANICAL LEGEND & DRAWING LIST

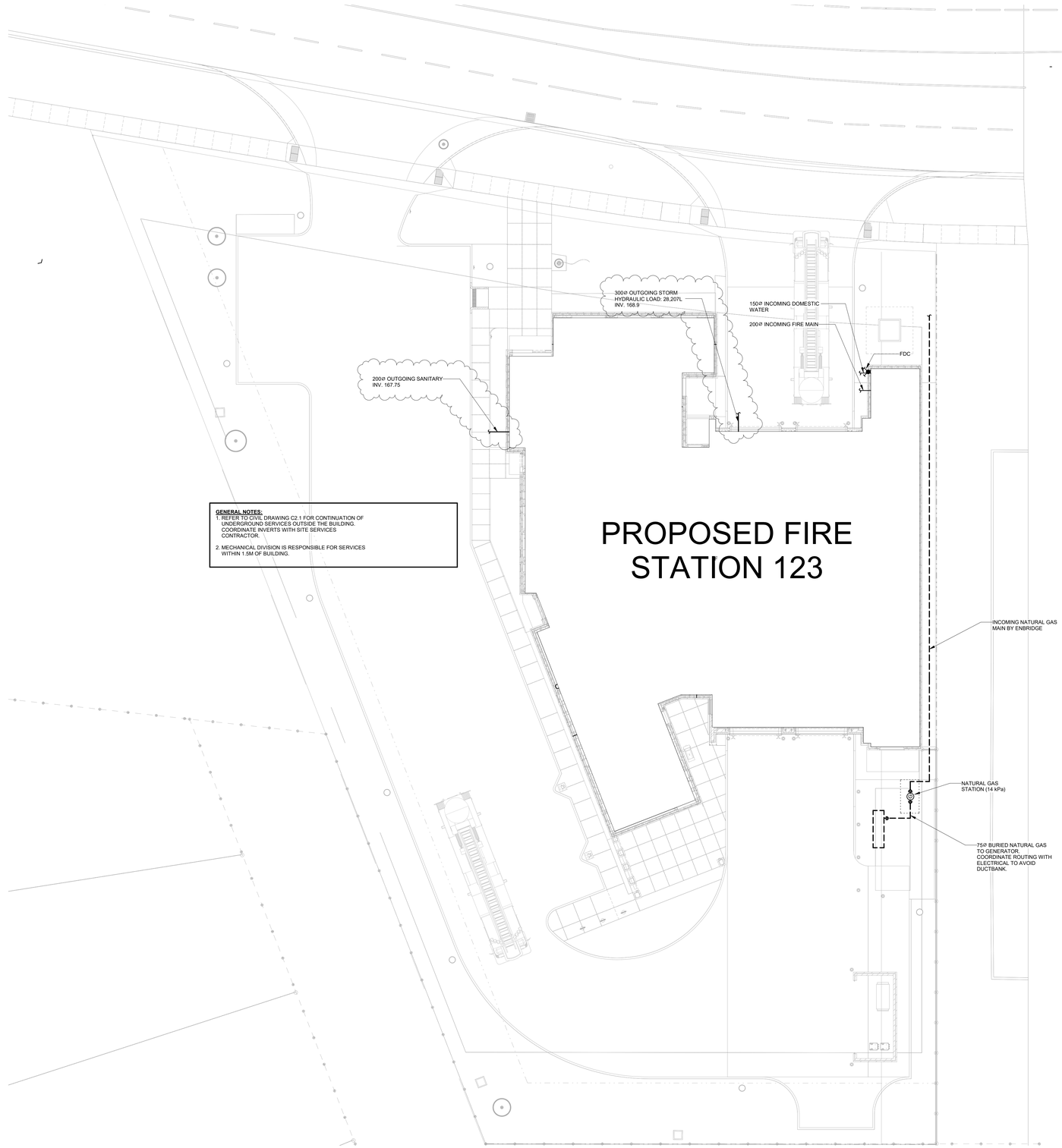
ISSUE DATE: 2024-05-01

DRAWN BY: Author CHECKED BY:Checker

PROJECT NO.: CM-22-281 SCALE: 1 : 1

DRAWING NO.: M-001 REVISION: 8

PLOT DATE: 5/1/2024 4:46:54 PM




**GENERAL NOTES:**

1. REFER TO CIVIL DRAWING C2.1 FOR CONTINUATION OF UNDERGROUND SERVICES OUTSIDE THE BUILDING. COORDINATE INVERTS WITH SITE SERVICES CONTRACTOR.
2. MECHANICAL DIVISION IS RESPONSIBLE FOR SERVICES WITHIN 1.5M OF BUILDING.

[ PLOT DATE: 5/1/2024 8:46:58 PM ]

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| 5 | ISSUED FOR PERMIT | 2024-01-24 |
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| 2 | ISSUED FOR DESIGN DEVELOPMENT | 2023-10-06 |
| 1 | ALECTRA SERVICE REQUEST | 2023-08-11 |

DRAWING TITLE:

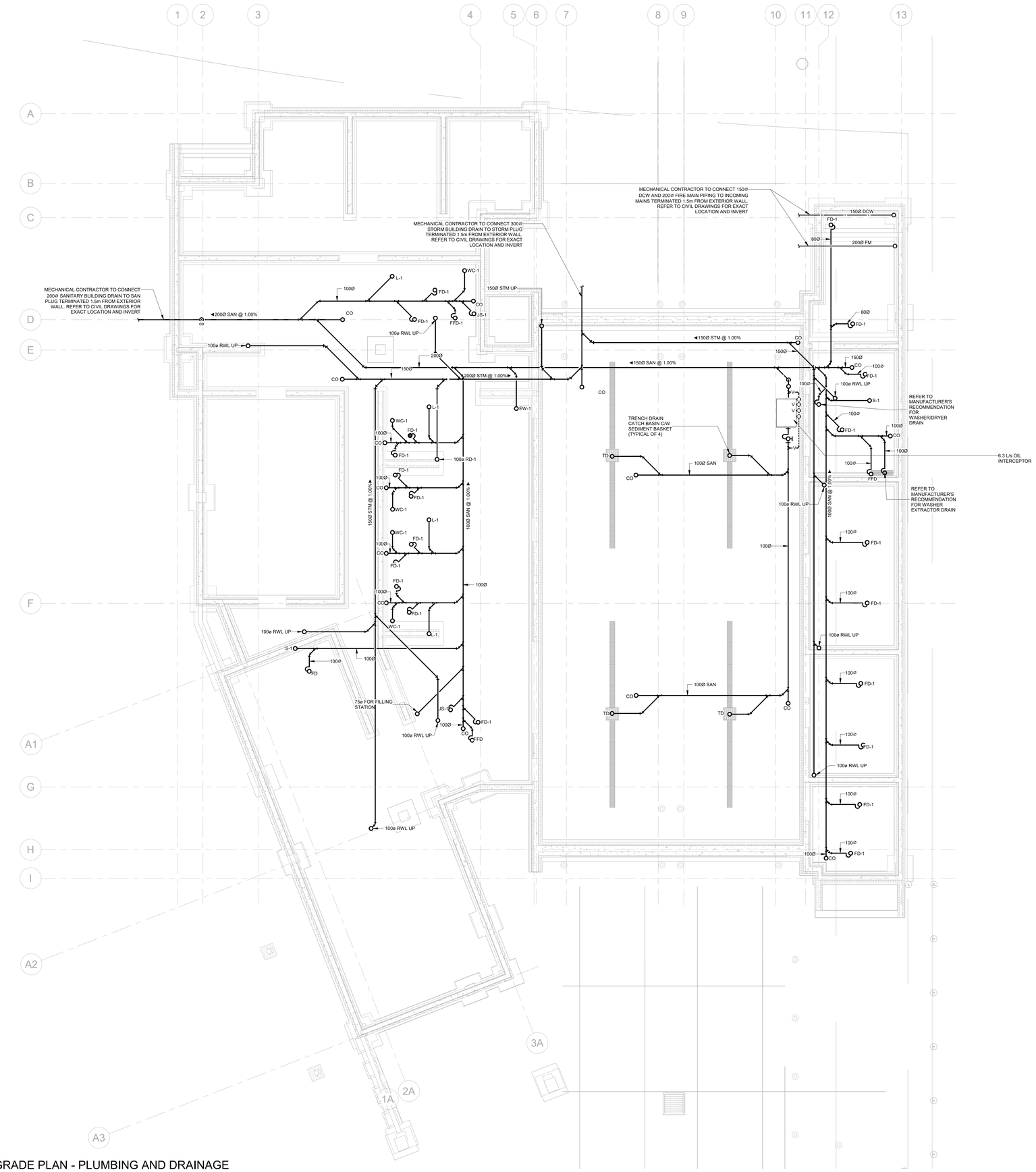
# MECHANICAL SITE PLAN

ISSUE DATE: 2024-05-01

DRAWN BY: Author CHECKED BY:Checker

PROJECT NO.: CM-22-281 SCALE: As indicated

DRAWING NO.: M-101 REVISION: 9




1 BELOW GRADE PLAN - PLUMBING AND DRAINAGE
SCALE:1 : 75

**GENERAL NOTES:**
1. DRAWINGS ARE DIAGRAMMATIC AND INDICATE GENERAL LOCATIONS OF EQUIPMENT AND CONNECTING SERVICES. DRAWINGS ARE NOT TO BE DIMENSIONED OR SCALED.
2. NOTE THAT ANY REFERENCE TO CONTRACTOR ON MECHANICAL DRAWINGS IS NOT EXCLUSIVE TO MECHANICAL CONTRACTOR OR ON PARTICULAR SUB-TRADE. IT IS UNDERSTOOD THAT THE PRIME CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATE OF ALL TRADES' WORK AND AS SUCH SHALL BE RESPONSIBLE FOR REVIEW OF DOCUMENTS PREPARED BY ALL DISCIPLINES (I.E. MECHANICAL AND ELECTRICAL) AND INCLUDING ALL ASSOCIATED COSTS FOR THE SCOPE OF WORK AS IDENTIFIED IN ALL SUB-DISCIPLINE'S DOCUMENTS.
3. ALL WORK TO BE DONE IN ACCORDANCE WITH THE ONTARIO BUILDING CODE AND ALL OTHER REGULATORY REQUIREMENTS.
4. SUPPLY ALL LABOUR AND MATERIALS TO PROVIDE A COMPLETE MECHANICAL INSTALLATION. ITEMS NOT EXPLICITLY ILLUSTRATED ON THE DRAWINGS ARE NOT TO BE EXCLUDED FROM THE SCOPE OF WORK IF REQUIRED AS PART OF A PROPER INSTALLATION. PERMITS, TESTING, BALANCING, AND OCCUPANT OPERATIONAL TRAINING WILL BE PART OF THE WORK.
5. COORDINATE PLUMBING WITH WORK OF OTHER TRADES PRIOR TO FABRICATION OR INSTALLATION. PROVIDE ALL FITTINGS, OFFSETS AND TRANSITIONS REQUIRED FOR COMPLETE WORKABLE INSTALLATION.
6. COORDINATE LOCATIONS OF ALL ROOF OPENINGS WITH STRUCTURAL, MECHANICAL AND ARCHITECTURAL PLANS PRIOR TO ANY INSTALLATION.
7. PROVIDE FULL VENTING SYSTEM IN ACCORDANCE TO PART 7 OF THE OBC. COORDINATE LOCATION OF VTRS WITH AIR INTAKES.
8. ALL EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S WRITTEN GUIDELINES. PROVIDE ALL FITTINGS, OFFSETS AND TRANSITIONS AS REQUIRED FOR COMPLETE INSTALLATION.
9. TRAP, PRIME AND VENT ALL FLOOR DRAINS.
10. ALL DRAINAGE PIPING 100Ø AND LARGER TO BE SLOPED AT 1%. ALL DRAINAGE PIPING 75Ø AND LESS TO BE SLOPED AT 2%.
11. MINIMUM PIPE SIZE IS 12Ø UNLESS NOTED OTHERWISE.
12. PROVIDE ISOLATION VALVES AT EACH PLUMBING FIXTURE.
13. ALL JANITOR'S SINKS, WALL HYDRANTS AND HOSE BIBBS TO BE PROVIDED C/W CSA VACUUM BREAKER PER OBC REQUIREMENTS

DRAWING NOTE:
1. REFER TO CIVIL DRAWING C2.1 FOR CONTINUATION OF UNDERGROUND SERVICES OUTSIDE THE BUILDING. COORDINATE INVERTS WITH SITE SERVICES CONTRACTOR.
2. SANITARY / STORM PIPING INVERT ELEVATION IS APPROXIMATE. CONTRACTOR TO COORDINATE WITH GROUND WATER DRAINAGE LAYOUT.

MISSISSAUGA

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SEALS

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| 7 | RESPONSE TO PERMIT COMMENTS | 2024-03-26 |
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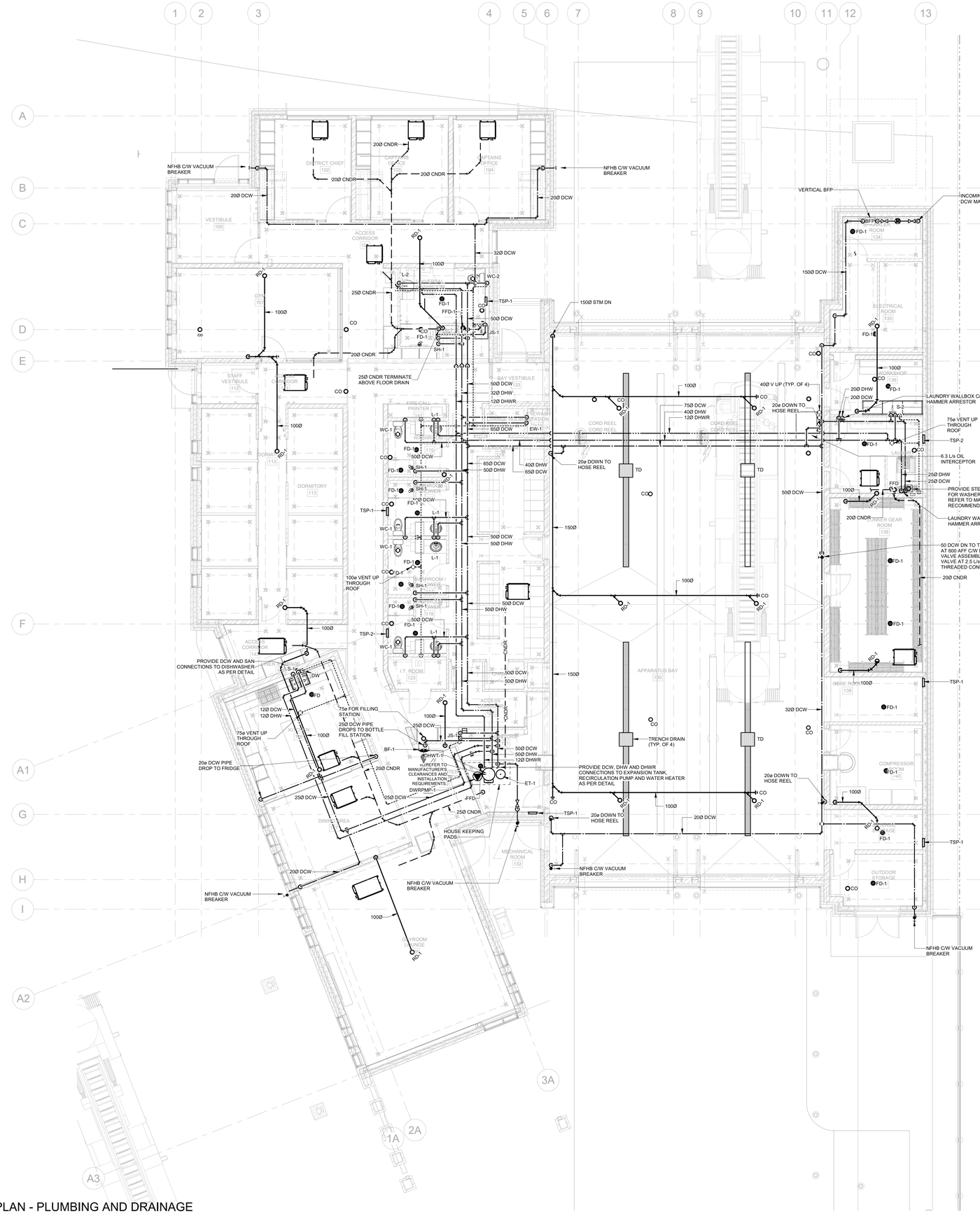
| 5 | ISSUED FOR PERMIT | 2024-01-24 |
| 4 | ISSUED FOR 99% CD | 2024-01-19 |
| 3 | ALECTRA COORDINATION | 2023-12-18 |
| 2 | ISSUED FOR DESIGN DEVELOPMENT | 2023-10-06 |
| 1 | ALECTRA SERVICE REQUEST | 2023-08-11 |

DRAWING TITLE:
FOUNDATION PLAN - PLUMBING AND DRAINAGE

ISSUE DATE: 2024-05-01
DRAWN BY: Author CHECKED BY:Checker
PROJECT NO.: CM-22-281 SCALE: As indicated
DRAWING NO.: M-200 REVISION: 8


PLOT DATE: 5/1/2024 8:47:20 PM

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6. COORDINATE LOCATIONS OF ALL ROOF OPENINGS WITH STRUCTURAL, MECHANICAL AND ARCHITECTURAL PLANS PRIOR TO ANY INSTALLATION.
7. PROVIDE FULL VENTING SYSTEM IN ACCORDANCE TO PART 7 OF THE OBC. COORDINATE LOCATION OF VTRS WITH AIR INTAKES.
8. ALL EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S WRITTEN GUIDELINES. PROVIDE ALL FITTINGS, OFFSETS AND TRANSITIONS AS REQUIRED FOR COMPLETE INSTALLATION.
9. TRAP, PRIME AND VENT ALL FLOOR DRAINS.
10. ALL DRAINAGE PIPING 100Ø AND LARGER TO BE SLOPED AT 1%. ALL DRAINAGE PIPING 75Ø AND LESS TO BE SLOPED AT 2%.
11. MINIMUM PIPE SIZE IS 12Ø UNLESS NOTED OTHERWISE.
12. PROVIDE ISOLATION VALVES AT EACH PLUMBING FIXTURE.
13. ALL JANITOR'S SINKS, WALL HYDRANTS AND HOSE BIBBS TO BE PROVIDED C/W CSA VACUUM BREAKER PER OBC REQUIREMENTS

1 LEVEL 01 PLAN - PLUMBING AND DRAINAGE
SCALE:1 : 75


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| 2 | ISSUED FOR DESIGN DEVELOPMENT | 2023-10-06 |
| 1 | ALECTRA SERVICE REQUEST | 2023-08-11 |

DRAWING TITLE:

LEVEL 01 PLAN - PLUMBING AND DRAINAGE

ISSUE DATE: 2024-05-01

DRAWN BY: Author CHECKED BY:Checker

PROJECT NO.: CM-22-281 SCALE: As indicated

DRAWING NO.: M-201 REVISION: 8

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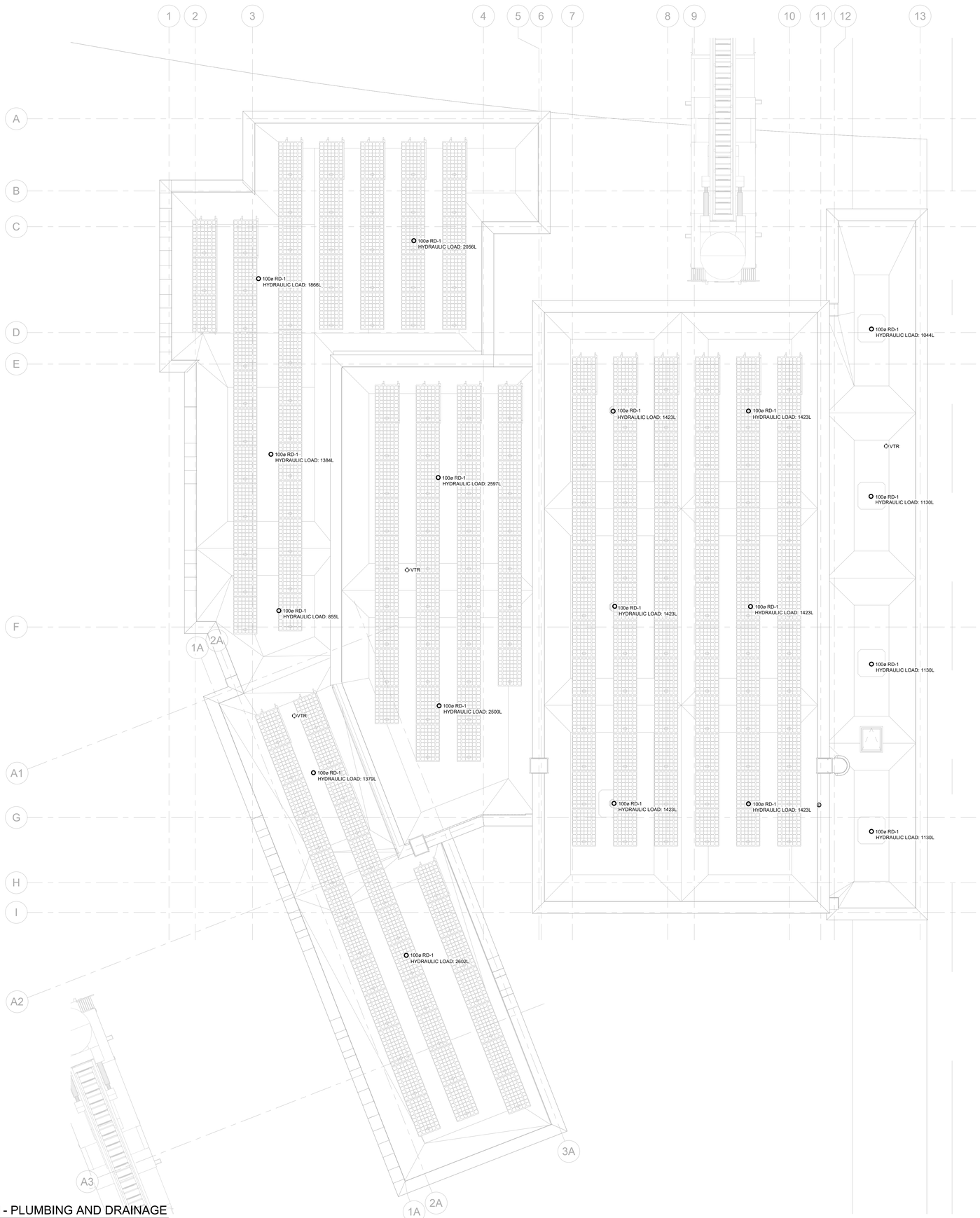


1 ROOF PLAN - PLUMBING AND DRAINAGE
SCALE:1 : 75

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11. MINIMUM PIPE SIZE IS 120 UNLESS NOTED OTHERWISE.
12. PROVIDE ISOLATION VALVES AT EACH PLUMBING FIXTURE.
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| 1 | ALECTRA SERVICE REQUEST | 2023-08-11 |

DRAWING TITLE:

ROOF PLAN - PLUMBING AND DRAINAGE

ISSUE DATE: 2024-05-01

DRAWN BY: Author CHECKED BY:Checker

PROJECT NO.: CM-22-281 SCALE: As indicated

DRAWING NO.: REVISION:

M-202 8

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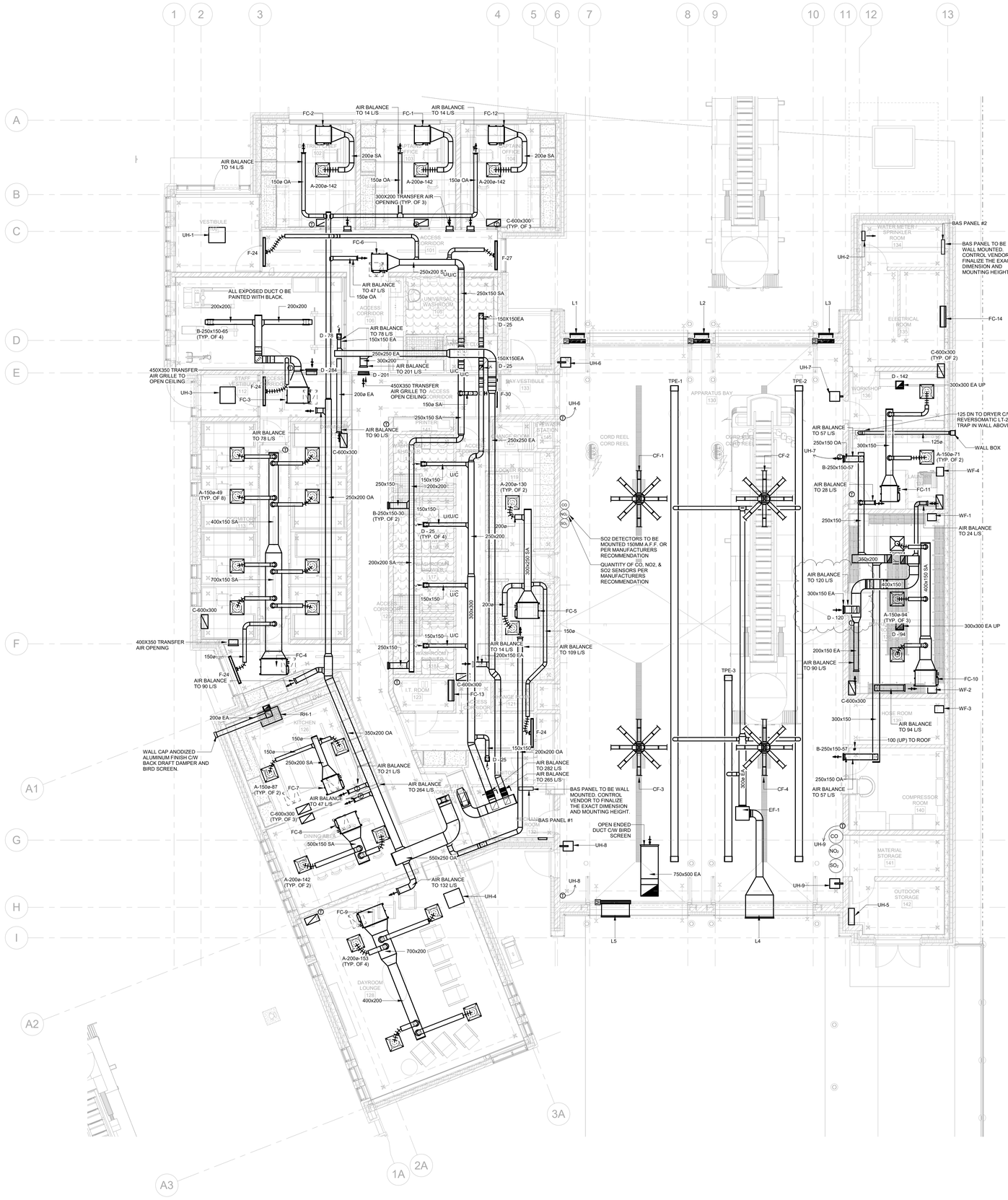


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8. DUCTWORK SHALL BE INSULATED OR LINED PER SPECIFICATIONS AND/OR AS NOTED ON DRAWINGS. ALL DUCT JOINTS AND SEAMS SHALL BE SEAL PER SPECIFICATIONS.
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10. MANUAL BALANCING DAMPERS SHALL BE PROVIDED IN ALL DUCT BRANCHES AND IN ALL BRANCHES TO INDIVIDUAL DIFFUSERS, GRILLES AND REGISTERS, WHETHER SHOWN OR NOT.
11. ALL DUCTWORK LOCATED OUTSIDE THE BUILDING SHALL BE WEATHERPROOFED.
12. CONTRACTOR SHALL INSTALL ANY DUCT MOUNTED SMOKE DETECTORS FURNISHED BY THE ELECTRICAL CONTRACTOR.
13. LIMIT LENGTHS OF FLEXIBLE DUCT TO 1200mm
14. COORDINATE LOCATIONS OF WALL MOUNTED SENSORS WITH ARCHITECTURAL DRAWINGS.
15. MINIMUM DUCT SIZE TO DIFFUSERS TO MATCH DIFFUSER NEXT SIZE UNLESS OTHERWISE INDICATED.

1 LEVEL 01 PLAN - VENTILATION
SCALE:1 : 75

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| 8 | ISSUED FOR TENDER | 2024-05-01 |
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| 6 | ISSUED FOR TENDER REVIEW | 2024-03-08 |
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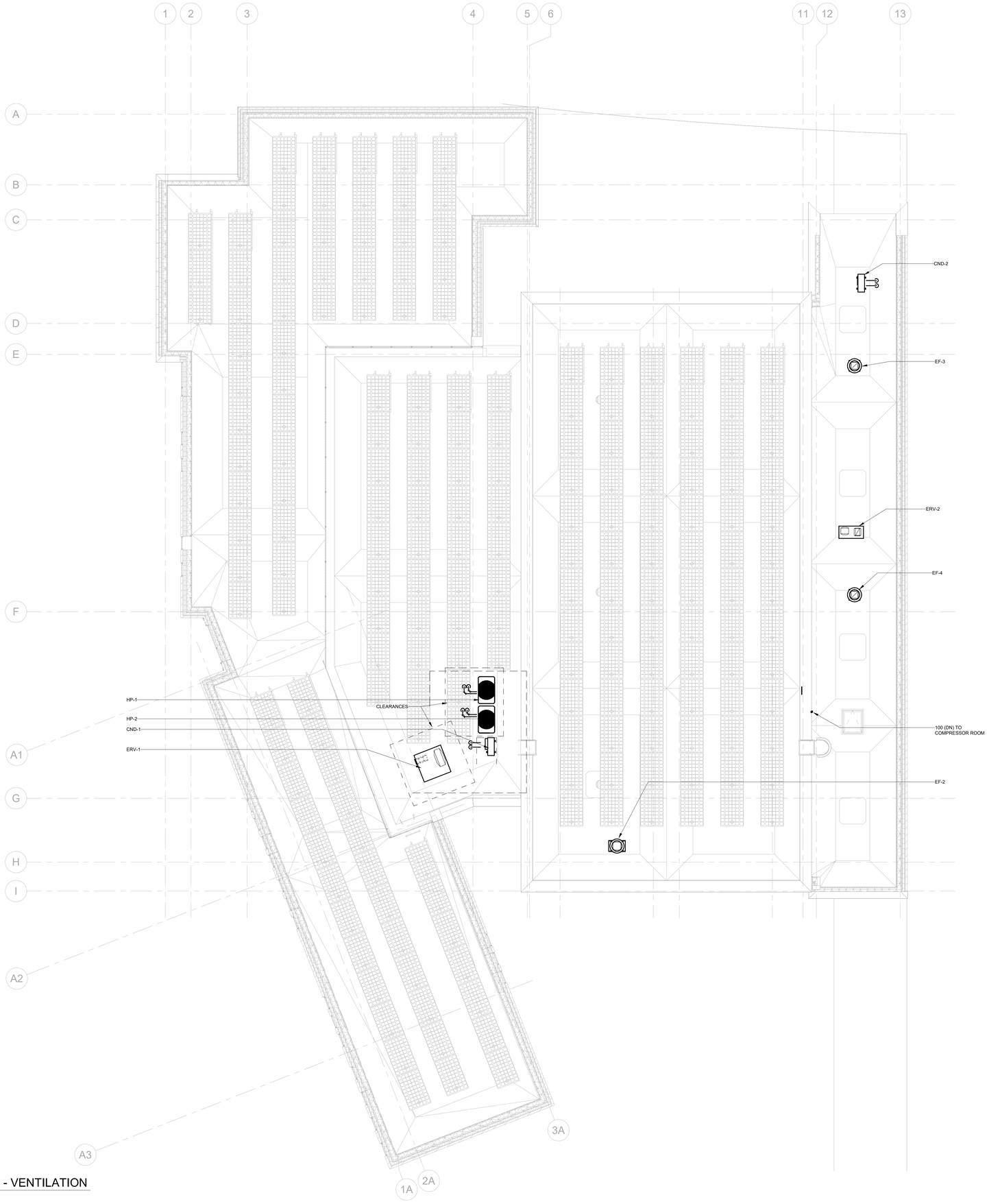
| 3 | ALECTRA COORDINATION | 2023-12-18 |
| 2 | ISSUED FOR DESIGN DEVELOPMENT | 2023-10-06 |
| 1 | ALECTRA SERVICE REQUEST | 2023-08-11 |

DRAWING TITLE:

LEVEL 01 PLAN - VENTILATION

| | |
|---|---|
| ISSUE DATE: | 2024-05-01 |
| DRAWN BY: Author | CHECKED BY:Checker |
| PROJECT NO.: CM-22-281 | SCALE: As indicated |
| DRAWING NO.: M-301 | REVISION: 9 |

[ PLOT DATE: 5/1/2024 8:47:26 AM ]

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15. MINIMUM DUCT SIZE TO DIFFUSERS TO MATCH DIFFUSER NEXT SIZE UNLESS OTHERWISE INDICATED.
16. REFRIGERANT PIPING TO BE SIZED AN INSTALLED AS PER MANUFACTURER'S RECOMMENDATIONS BASED ON CAPACITY AND ROUTING OF PIPES.

1 ROOF PLAN - VENTILATION
SCALE:1 : 75

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| 1 | ALECTRA SERVICE REQUEST | 2023-08-11 |

DRAWING TITLE:

ROOF PLAN - VENTILATION

ISSUE DATE: 2024-05-01

DRAWN BY: Author CHECKED BY:Checker

PROJECT NO.: CM-22-281 SCALE: As indicated

DRAWING NO.: M-302 REVISION: 8


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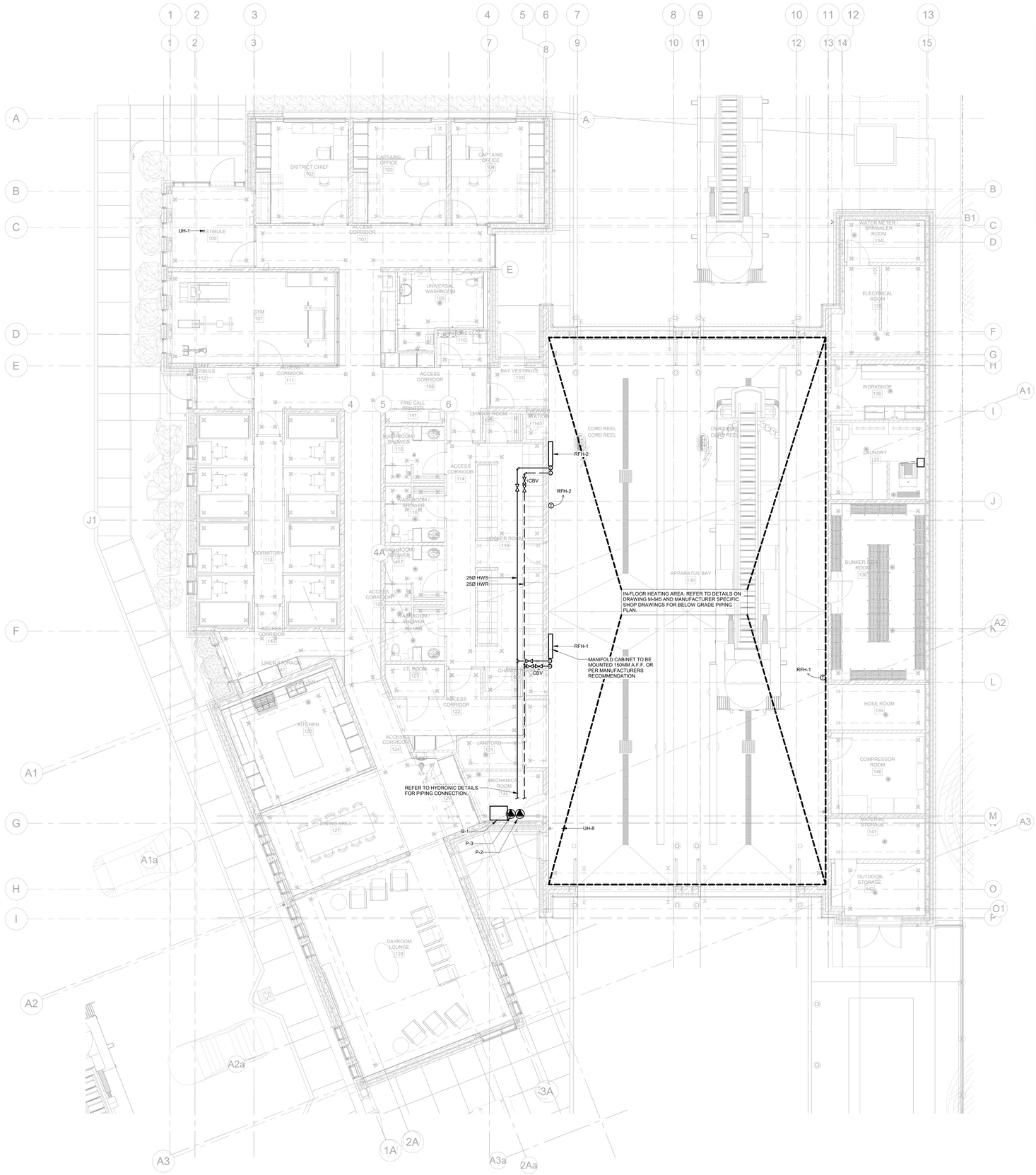


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1 LEVEL 01 PLAN - HEATING
SCALE:1 : 75

[PLOT DATE: 5/1/2024 8:47:40 PM ]

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DRAWING TITLE:

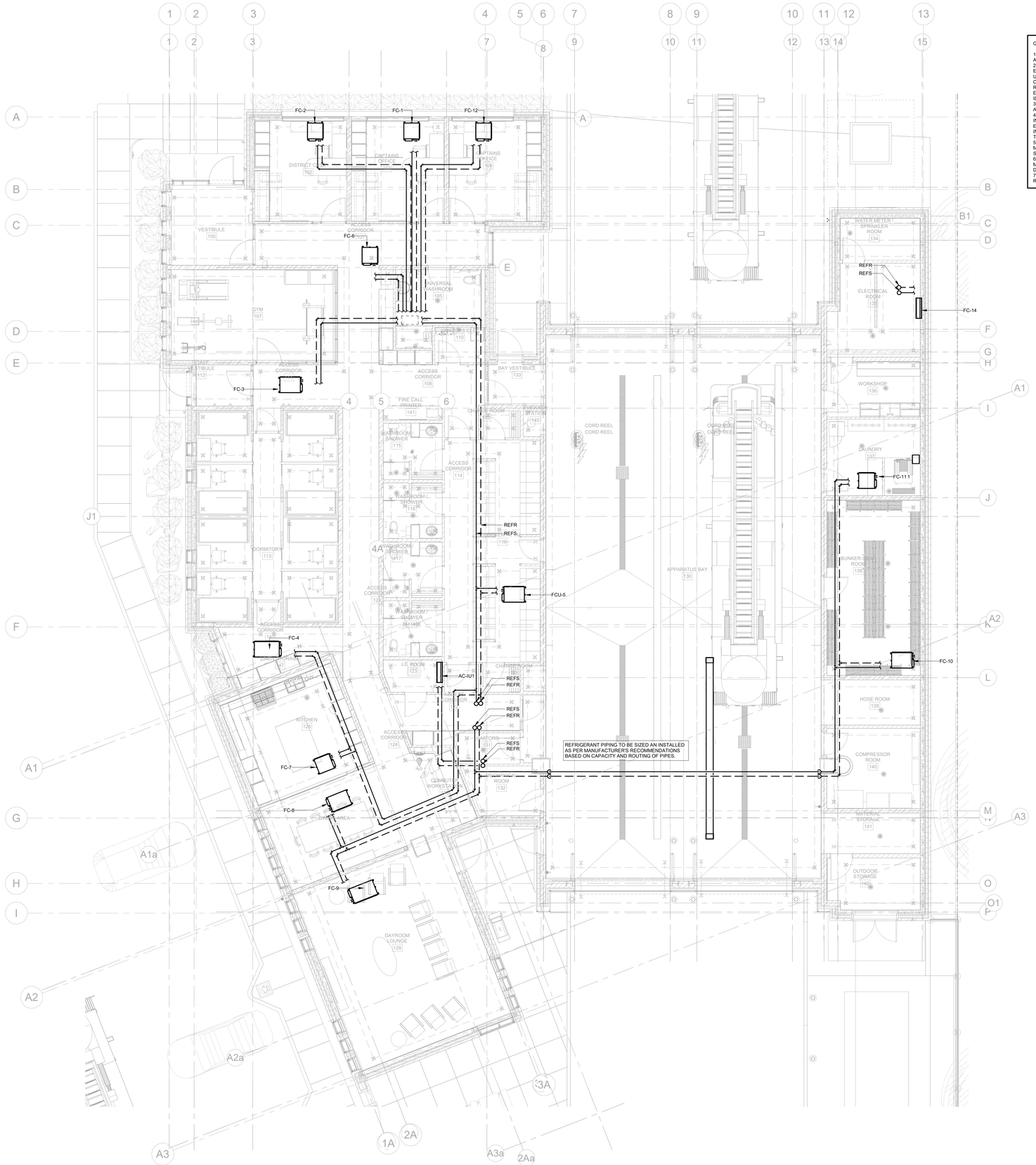
ALTERNATIVE PRICE #1

ISSUE DATE: 2024-05-01

DRAWN BY: Author CHECKED BY:Checker

PROJECT NO.: CM-22-281 SCALE: As indicated

DRAWING NO.: M-303 REVISION: 8

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2. NOTE THAT ANY REFERENCE TO CONTRACTOR ON MECHANICAL DRAWINGS IS NOT EXCLUSIVE TO MECHANICAL CONTRACTOR OR ON PARTICULAR SUB-TRADE. IT IS UNDERSTOOD THAT THE PRIME CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATE OF ALL TRADES' WORK AND AS SUCH SHALL BE RESPONSIBLE FOR REVIEW OF DOCUMENTS PREPARED BY ALL DISCIPLINES (I.E. MECHANICAL AND ELECTRICAL) AND INCLUDING ALL ASSOCIATED COSTS FOR THE SCOPE OF WORK AS IDENTIFIED IN ALL SUB-DISCIPLINE'S DOCUMENTS.
3. ALL WORK TO BE DONE IN ACCORDANCE WITH THE ONTARIO BUILDING CODE AND ALL OTHER REGULATORY REQUIREMENTS.
4. SUPPLY ALL LABOUR AND MATERIALS TO PROVIDE A COMPLETE MECHANICAL INSTALLATION. ITEMS NOT EXPLICITLY ILLUSTRATED ON THE DRAWINGS ARE NOT TO BE EXCLUDED FROM THE SCOPE OF WORK IF REQUIRED AS PART OF A PROPER INSTALLATION. PERMITS, TESTING, BALANCING, AND OCCUPANT OPERATIONAL TRAINING WILL BE PART OF THE WORK.
5. THE LOCATION OF ALL ROOF OPENINGS SHALL BE AS INDICATED ON THE MECHANICAL, STRUCTURAL AND ARCHITECTURAL DRAWINGS. COORDINATE EXACT SIZES OF OPENINGS AS REQUIRED.
6. ALL EQUIPMENT SHALL BE INSTALLED IN STRICT ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS. PROVIDE ALL FITTINGS, TRANSITIONS, DAMPERS ETC AS REQUIRED FOR COMPLETE WORKABLE INSTALLATION.
7. REFRIGERANT PIPING TO BE SIZED AN INSTALLED AS PER MANUFACTURER'S RECOMMENDATIONS BASED ON CAPACITY AND ROUTING OF PIPES.

1 LEVEL 01 PLAN - REFRIGERANT PIPING
SCALE:1 : 75

MISSISSAUGA

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| NO. | ISSUES/REVISIONS | DATE |
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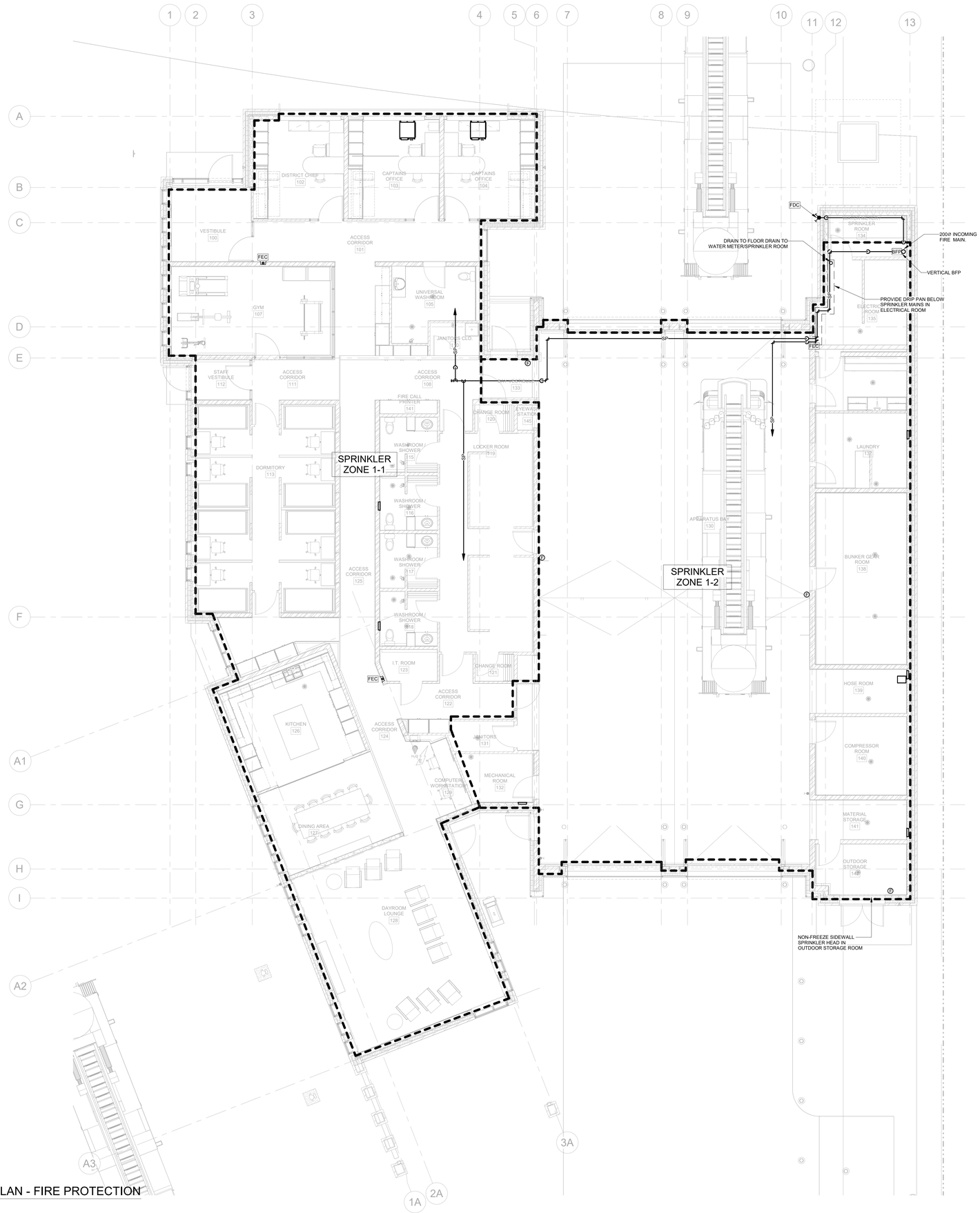
| 8 | ISSUED FOR TENDER | 2024-05-01 |
| 7 | RESPONSE TO PERMIT COMMENTS | 2024-03-26 |
| 6 | ISSUED FOR TENDER REVIEW | 2024-03-08 |
| 5 | ISSUED FOR PERMIT | 2024-01-24 |
| 4 | ISSUED FOR 99% CD | 2024-01-19 |
| 3 | ALECTRA COORDINATION | 2023-12-18 |
| 2 | ISSUED FOR DESIGN DEVELOPMENT | 2023-10-06 |
| 1 | ALECTRA SERVICE REQUEST | 2023-08-11 |

DRAWING TITLE:
REFRIGERANT PIPING

ISSUE DATE: 2024-05-01
DRAWN BY: Author
CHECKED BY:Checker
PROJECT NO.: CM-22-281
SCALE: As indicated
DRAWING NO.: M-304
REVISION: 8

[PLOT DATE: 5/1/2024 8:47:34 PM ]




1 LEVEL 01 PLAN - FIRE PROTECTION
SCALE:1 : 75

**GENERAL NOTES:**

1. DRAWINGS ARE DIAGRAMMATIC AND INDICATE GENERAL LOCATIONS OF EQUIPMENT AND CONNECTING SERVICES. DRAWINGS ARE NOT TO BE DIMENSIONED OR SCALED.
2. NOTE THAT ANY REFERENCE TO CONTRACTOR ON MECHANICAL DRAWINGS IS NOT EXCLUSIVE TO MECHANICAL CONTRACTOR OR ON PARTICULAR SUB-TRADE. IT IS UNDERSTOOD THAT THE PRIME CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATE OF ALL TRADES' WORK AND AS SUCH SHALL BE RESPONSIBLE FOR REVIEW OF DOCUMENTS PREPARED BY ALL DISCIPLINES (I.E. MECHANICAL AND ELECTRICAL) AND INCLUDING ALL ASSOCIATED COSTS FOR THE SCOPE OF WORK AS IDENTIFIED IN ALL SUB-DISCIPLINE'S DOCUMENTS.
3. ALL WORK TO BE DONE IN ACCORDANCE WITH THE ONTARIO BUILDING CODE AND ALL OTHER REGULATORY REQUIREMENTS.
4. SUPPLY ALL LABOUR AND MATERIALS TO PROVIDE A COMPLETE MECHANICAL INSTALLATION. ITEMS NOT EXPLICITLY ILLUSTRATED ON THE DRAWINGS ARE NOT TO BE EXCLUDED FROM THE SCOPE OF WORK IF REQUIRED AS PART OF A PROPER INSTALLATION. PERMITS, TESTING, BALANCING, AND OCCUPANT OPERATIONAL TRAINING WILL BE PART OF THE WORK.
5. COORDINATE FIRE PROTECTION WITH WORK OF OTHER TRADES PRIOR TO FABRICATION OR INSTALLATION. PROVIDE ALL FITTINGS, OFFSETS AND TRANSITIONS REQUIRED FOR COMPLETE WORKABLE INSTALLATION.
6. THIS SPRINKLER DRAWING IS PREPARED TO GIVE THE CONTRACTOR THE DESIGN INTENT. THE SCOPE OF WORK AND TO ASSIST IN PRICING THE SPRINKLER WORK. THE SUCCESSFUL SPRINKLER CONTRACTOR SHALL PREPARE SHOP DRAWINGS AND HYDRAULIC CALCULATIONS AND SUBMIT TO THE CITY FIRE DEPARTMENT AND TO THE CONSULTANT FOR APPROVAL. CONTRACTOR SHALL OBTAIN COPIES OF CALCULATIONS AND ANY DRAWINGS REQUIRED FROM THE OWNER AND/OR THE ORIGINAL INSTALLING CONTRACTOR IN ORDER TO COMPLETE THIS DESIGN. THE CONTRACTOR SHALL INCLUDE FOR ALL NECESSARY REQUIREMENTS TO COMPLETE THE DESIGN IF THE ABOVE INFORMATION IS NOT AVAILABLE OR ACCEPTABLE.
7. UPON COMPLETION OF SPRINKLER WORKS, CONTRACTOR SHALL TEST REVISED SPRINKLER ZONES TO THE LATEST REQUIREMENTS OF NFPA 13 "INSTALLATION OF SPRINKLER SYSTEM".
8. CONTRACTOR SHALL COORDINATE WITH MECHANICAL AND ELECTRICAL TRADES FOR FINAL LOCATION OF SPRINKLER HEADS IN ORDER TO PREVENT CONFLICTS.
9. CONTRACTOR SHALL CO-ORDINATE SPRINKLER HEAD LOCATIONS IN AREAS WITH SUSPENDED CEILINGS WITH THE LOCATION OF LIGHTING, GRILLES, DIFFUSERS, AND SIMILAR ITEMS RECESSED IN OR SURFACE MOUNTED ON THE CEILING. IN AREAS WITH LAY-IN TILE, CENTRE THE SPRINKLER HEAD BOTH WAYS IN THE LAY-IN TILE.

**SPRINKLER DESIGN CRITERIA SUMMARY**

| | |
|---|---|
| AREA # | SPRINKLER ZONE 1-1 |
| DESCRIPTION | OFFICE/RESIDENTIAL |
| STANDARD | NFPA 13 2013 ED |
| SYSTEM TYPE | WET |
| HAZARD CLASS | LIGHT |
| DESIGN CRITERIA | 0.1 GPM/FT2 OVER 1500 FT2 |
| MAX AREA/SPK | 200FT2 |
| MIN PRESS/SPK | 7 PSI |
| K-FACTOR | TBD QUICK RESPONSE |
| INSIDE HOSE | 0 GPM |
| OUTSIDE HOSE | 0 GPM |

NOTE:
a. PIPING TO BE HYDRAULICALLY CALCULATED.
b. AREA REDUCTIONS WITH USE OF QUICK RESPONSE SPRINKLER HEADS MAY BE CONSIDERED.

**SPRINKLER DESIGN CRITERIA SUMMARY**

| | |
|---|---|
| AREA # | SPRINKLER ZONE 1-2 |
| DESCRIPTION | APPARATUS & SUPPORT |
| STANDARD | NFPA 13 2013 ED |
| SYSTEM TYPE | WET |
| HAZARD CLASS | ORDINARY HAZARD I |
| DESIGN CRITERIA | 0.15 GPM/FT2 OVER 1500 FT2 |
| MAX AREA/SPK | 130 FT2 |
| MIN PRESS/SPK | 7 PSI |
| K-FACTOR | TBD QUICK RESPONSE |
| INSIDE HOSE | 0 GPM |
| OUTSIDE HOSE | 0 GPM |

NOTE:
a. PIPING TO BE HYDRAULICALLY CALCULATED.
b. NO AREA REDUCTIONS WITH USE OF QUICK RESPONSE SPRINKLER HEADS.

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| 2 | ISSUED FOR DESIGN DEVELOPMENT | 2023-10-06 |
| 1 | ALECTRA SERVICE REQUEST | 2023-08-11 |

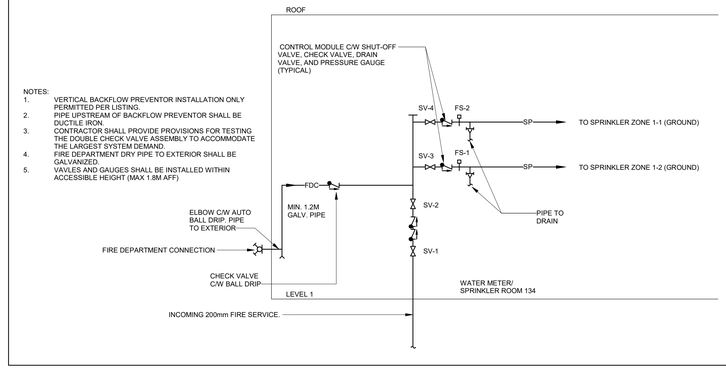
DRAWING TITLE:
LEVEL 01 PLAN - FIRE PROTECTION

ISSUE DATE: 2024-05-01
DRAWN BY: Author CHECKED BY:Checker
PROJECT NO.: CM-22-281 SCALE: As indicated
DRAWING NO.: M-401 REVISION: 8

[ PLOT DATE: 5/1/2024 8:46:20 PM ]

| SUPERVISED VALVE SCHEDULE | | |
|---|---|---|
| VALVE NO. | VALVE LOCATION | SERVICE |
| SV-1 | INCOMING MECHANICAL & SPRINKLE ROOM | SPRINKLER DOUBLE CHECK ISOLATION |
| SV-2 | INCOMING MECHANICAL & SPRINKLE ROOM | SPRINKLER DOUBLE CHECK ISOLATION |
| SV-3 | GROUND (ZONE 1-1) | GROUND CONTROL VALVE (WET ZONE 1-1) |
| SV-4 | GROUND (ZONE 1-2) | GROUND CONTROL VALVE (WET ZONE 1-2) |

NOTES:
1. VERTICAL BACKFLOW PREVENTOR INSTALLATION ONLY PERMITTED PER LISTING.
2. PIPE UPSTREAM OF BACKFLOW PREVENTOR SHALL BE DUCTILE IRON.
3. CONTRACTOR SHALL PROVIDE PROVISIONS FOR TESTING THE DOUBLE CHECK VALVE ASSEMBLY TO ACCOMMODATE THE LARGEST SYSTEM DEMAND.
4. FIRE DEPARTMENT DRY PIPE TO EXTERIOR SHALL BE GALVANIZED.
5. VAVLES AND GAUGES SHALL BE INSTALLED WITHIN ACCESSIBLE HEIGHT (MAX 1.8M AFF)




2 FIRE PROTECTION SCHEMATIC
SCALE:N.T.S.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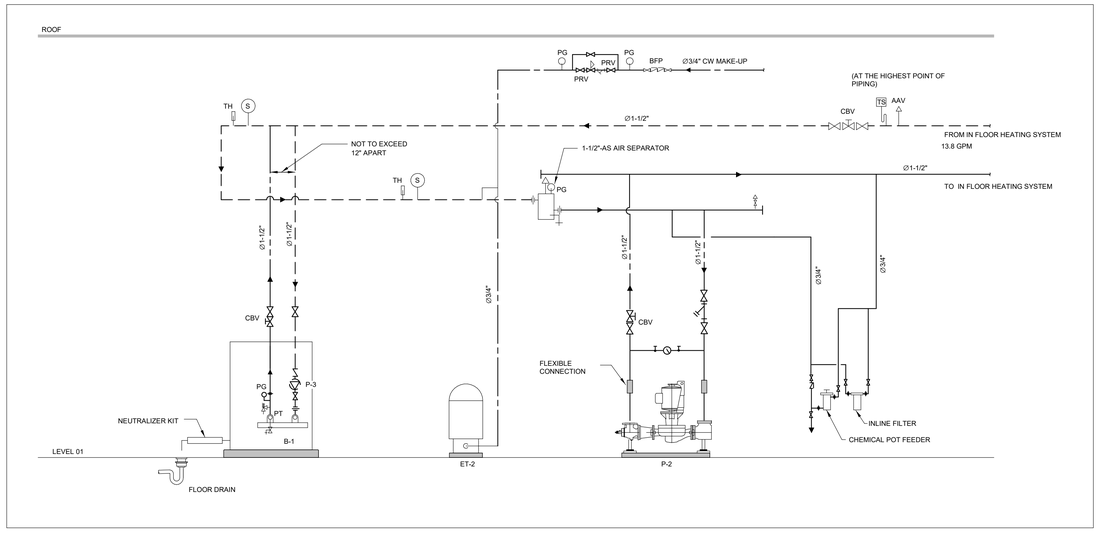
| 2 | ISSUED FOR DESIGN DEVELOPMENT | 2023-10-06 |
| 1 | ALECTRA SERVICE REQUEST | 2023-08-11 |

DRAWING TITLE:
FIRE PROTECTION SCHEMATIC

ISSUE DATE: 2024-05-01
DRAWN BY: Author
CHECKED BY:Checker
PROJECT NO.: CM-22-281
SCALE: N.T.S.
DRAWING NO.: M-601
REVISION: 8


PLOT DATE: 5/1/2024 8:48:08 PM




1 HYDRONIC SYSTEM SCHEMATIC

SCALE:N.T.S.

[PLOT DATE: 5/1/2024 8:48:38 PM ]

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| 1 | ALECTRA SERVICE REQUEST | 2023-08-11 |

DRAWING TITLE:

HYDRONIC SYSTEM SCHEMATIC

ISSUE DATE: 2024-05-01

DRAWN BY: Author CHECKED BY:Checker

PROJECT NO.: CM-22-281 SCALE: N.T.S.

DRAWING NO.: M-602

REVISION: 8

| DIAGRAM SYMBOL LEGEND | |
|---|---|
| DISPLAY | DESCRIPTION |
| -//- -///- | POWER WIRE |
| ——— | CONTROL WIRE |
| – – – – – – | REF. PIPE / WATER PIPE |
| -///- | POWER SIGNAL WIRE |

| The symbol of replace judgment | |
|---|---|
| Symbol | Definition |
| #1 | Standard |
| #2 | Usable (Unit performance will be affected.) |
| #3 | Usable (Refrigerant charge will be limited.) |
| #4 | Usable (Piping length will be limited.) |
| #5 | Piping length and vertical separation will be limited. |

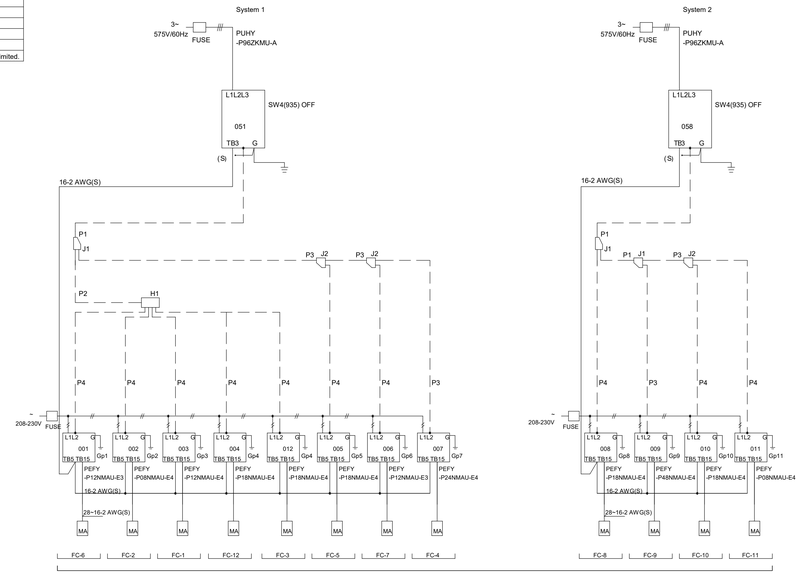
| PIPING LIST | |
|---|---|
| SYMBOL | BRANCH PIPE MODEL NAME |
| J1 | CMY-Y102LS-G2 |
| J2 | CMY-Y102SS-G2 |
| H1 | CMY-Y108C-G |
| SYMBOL | LIQUID PIPE/GAS PIPE SIZE |
| P1 | 3/8 / 7/8 |
| P2 | 3/8 / 3/4 |
| P3 | 3/8 / 5/8 |
| P4 | 1/4 / 1/2 |

| Address | Additional Refrigerant |
|---|---|

1/2inch for liquid pipe of
P96 unit over 295ft.

CITY MULTI
SYSTEM SCHEMATIC DWG.

Appropriate Circuit Protection Device in accordance with logal government regulations are mandatory required such as GFI(Inverter type) and WB etc. Please refer the amount of pre-charge and the formula of calculation which is mentioned on the data book. 1.25mm² (16 AWG) : 1.25mm² (16 AWG) or more. 1.25mm² (16 AWG) : 1.25mm² (16 AWG) or more. Warning: HVRF pipe size is dependent on pipe length, please confirm before implementation.




1 VRF SCHEMATIC
SCALE:NTS

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| 1 | ALECTRA SERVICE REQUEST | 2023-08-11 |

DRAWING TITLE:

VRF SCHEMATIC

ISSUE DATE: 2024-05-01

DRAWN BY: Author CHECKED BY:Checker

PROJECT NO.: CM-22-281 SCALE: NTS

DRAWING NO.: M-603 REVISION: 8

[ PLOT DATE: 5/1/2024 8:46:14 PM ]

## Air Cooled Condenser (Split AC)

| Tag | Manufacturer | Model | Cooling Capacity (kW) | Refrigerant Type | Electrical V/Ph/Hz | Electrical MCA | Electrical MOCP | Weight | Notes |
|---|---|---|---|---|---|---|---|---|---|
| CND-1 | Mitsubishi | PUY-A12NKA7 | 3.52 | R104A | 208/1/60 | 11 | 28 | 41 | |
| CND-2 | Mitsubishi | PUY-A12NKA7 | 3.52 | R104A | 208/1/60 | 11 | 28 | 41 | |

## Fan Coil Unit (Split AC)

| Tag | Manufacturer | Model | Cooling Capacity (kW) | Refrigerant Type | Electrical V/Ph/Hz | Electrical MCA | Electrical FLA | Weight (Kg) | Notes |
|---|---|---|---|---|---|---|---|---|---|
| FC-13 | Mitsubishi | PKA-A12HA7 | 3.52 | R104A | 208/1/60 | 1 | .33 | 41 | |
| FC-14 | Mitsubishi | PKA-A12HA7 | 3.52 | R104A | 208/1/60 | 1 | .33 | 41 | |

## Heat Pumps (VRF)

| Tag | Manufacturer | Model | Cooling capacity (kW) | Heating Capacity (kW) | Refrigerant Type | Electrical V/Ph/Hz | Electrical MCA | Electrical MOCP | Weight (kg) | Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| HP-1 | Mitsubishi | PUHY-P96ZKMU-A | 28.13 | 31.65 | R104A | 575/3/60 | 15 | 20 | 226 | |
| HP-2 | Mitsubishi | PUHY-P96ZKMU-A | 28.13 | 31.65 | R104A | 575/3/60 | 15 | 20 | 226 | |

## Fan Coil Unit (VRF)

| Tag | Associated Condeser | Manufacturer | Model | Type | Service | Refrigerant | Airflow High (L/s) | Airflow Medium | Airflow low | Airflow ESP (Pa) | Cooling total capacity... | Cooling Sensible capacity | Cooling EAT (DB) | Cooling EAT (WB) | Heating Capacity | Heating EAT (DB) | Sound Pressure (dB(A)) | Electrical MCA | Electrical V/Ph/Hz | Weight (Kg) | Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FC-1 | HP-1 | Mitsubishi | PEFY-P08NMAU-E4 | Medium Static Ceiling Concealed Ducted | Heating/Cooling | R104A | 141.58 | 125.066 | 100.053 | 149.304 | 2.34 | | 26.7 | 19.4 | 2.64 | 21.1 | 24-28-30 | 1.75 | 208/1/60 | 21 | |
| FC-2 | HP-1 | Mitsubishi | PEFY-P08NMAU-E4 | Medium Static Ceiling Concealed Ducted | Heating/Cooling | R104A | 141.58 | 125.066 | 100.053 | 149.304 | 2.34 | | 26.7 | 19.4 | 2.64 | 21.1 | 24-28-30 | 1.75 | 208/1/60 | 21 | |
| FC-3 | HP-1 | Mitsubishi | PEFY-P18NMAU-E4 | Medium Static Ceiling Concealed Ducted | Heating/Cooling | R104A | 283.17 | 241.637 | 200.106 | 149.304 | 5.28 | | 26.7 | 19.4 | 5.86 | 21.1 | 29-33-37 | 2.94 | 208/1/60 | 26 | |
| FC-4 | HP-1 | Mitsubishi | PEFY-P24NMAU-E4 | Medium Static Ceiling Concealed Ducted | Heating/Cooling | R104A | 416.73 | 350.185 | 291.664 | 149.304 | 7.03 | | 26.7 | 19.4 | 7.91 | 21.1 | 31-35-39 | 2.88 | 208/1/60 | 30 | |
| FC-5 | HP-1 | Mitsubishi | PEFY-P18NMAU-E4 | Medium Static Ceiling Concealed Ducted | Heating/Cooling | R104A | 283.17 | 241.637 | 200.106 | 149.304 | 5.28 | | 26.7 | 19.4 | 5.86 | 21.1 | 29-33-37 | 2.94 | 208/1/60 | 26 | |
| FC-6 | HP-1 | Mitsubishi | PEFY-P12NMAU-E4 | Medium Static Ceiling Concealed Ducted | Heating/Cooling | R104A | 175.09 | 150.079 | 125.066 | 149.304 | 3.52 | | 26.7 | 19.4 | 3.96 | 21.1 | 26-30-34 | 2.13 | 208/1/60 | 21 | |
| FC-7 | HP-1 | Mitsubishi | PEFY-P12NMAU-E4 | Medium Static Ceiling Concealed Ducted | Heating/Cooling | R104A | 175.09 | 150.079 | 125.066 | 149.304 | 3.52 | | 26.7 | 19.4 | 3.96 | 21.1 | 26-30-34 | 2.13 | 208/1/60 | 21 | |
| FC-8 | HP-2 | Mitsubishi | PEFY-P18NMAU-E4 | Medium Static Ceiling Concealed Ducted | Heating/Cooling | R104A | 283.17 | 241.637 | 200.106 | 149.304 | 5.28 | | 26.7 | 19.4 | 5.86 | 21.1 | 29-33-37 | 2.94 | 208/1/60 | 26 | |
| FC-9 | HP-2 | Mitsubishi | PEFY-P48NMAU-E4 | Medium Static Ceiling Concealed Ducted | Heating/Cooling | R104A | 616.36 | 524.806 | 433.248 | 149.304 | 14.07 | | 26.7 | 19.4 | 15.83 | 21.1 | 35-40-44 | 4.38 | 208/1/60 | 39 | |
| FC-10 | HP-2 | Mitsubishi | PEFY-P18NMAU-E4 | Medium Static Ceiling Concealed Ducted | Heating/Cooling | R104A | 283.17 | 241.637 | 200.106 | 149.304 | 5.28 | | 26.7 | 19.4 | 5.86 | 21.1 | 29-33-37 | 2.94 | 208/1/60 | 26 | |
| FC-11 | HP-2 | Mitsubishi | PEFY-P08NMAU-E4 | Medium Static Ceiling Concealed Ducted | Heating/Cooling | R104A | 141.58 | 125.066 | 100.053 | 149.304 | 2.34 | | 26.7 | 19.4 | 2.64 | 21.1 | 24-28-30 | 1.75 | 208/1/60 | 21 | |
| FC-12 | HP-1 | Mitsubishi | PEFY-P12NMAU-E4 | Medium Static Ceiling Concealed Ducted | Heating/Cooling | R104A | 175.09 | 150.079 | 125.066 | 149.304 | 3.52 | | 26.7 | 19.4 | 3.96 | 21.1 | 26-30-34 | 2.13 | 208/1/60 | 21 | |

## Electric Heaters

| Tag | Type | Manufacturer | Model | Location | Capacity (kW) | Airflow (L/s) | Electrical V/Ph/Hz | Notes |
|---|---|---|---|---|---|---|---|---|
| UH-1 | Cabinet Unit Heater | Ouellet | OCA02008 | Vestibule-100 | 2 | 250 | 208/1/60 | Ceiling mounted- Recessed |
| UH-2 | Wall Fan Heater | Ouellet | OAC01500-T | Water Meter/Sprinkler Room - 134 | 1.5 | 160 | 208/1/60 | Wall mounted- Recessed |
| UH-3 | Cabinet Unit Heater | Ouellet | OCA02008 | Staff Vestibule - 112 | 2 | 250 | 208/1/60 | Ceiling mounted- Recessed |
| UH-4 | Cabinet Unit Heater | Ouellet | OCA02008 | Dayroom Lounge -128 | 2 | 250 | 208/1/60 | Ceiling mounted- Recessed |
| UH-5 | Cabinet Unit Heater | Ouellet | OCA05008 | Outdoor Storage - 141 | 5 | 250 | 208/1/60 | Wall mounted- Recessed |
| UH-6 | Electric Unit Heater | Ouellet | OAS07538AM | Apparatus Bay - 130 | 7.5 | 330.36 | 208/3/60 | Ceiling Hung |
| UH-7 | Electric Unit Heater | Ouellet | OAS07538AM | Apparatus Bay - 130 | 7.5 | 330.36 | 208/3/60 | Ceiling Hung |
| UH-8 | Electric Unit Heater | Ouellet | OAS07538AM | Apparatus Bay - 130 | 7.5 | 330.36 | 208/3/60 | Ceiling Hung |
| UH-9 | Electric Unit Heater | Ouellet | OAS07538AM | Apparatus Bay - 130 | 7.5 | 330.36 | 208/3/60 | Ceiling Hung |

## Energy Recovery Ventilator

| Tag | Manufacturer | Model | Supply fan Airflow (L/s) | Supply fan E.S.P (Pa) | Supply fan Motor (Hp) | Exhaust Fan Airflow (L/s) | Exhaust Fan E.S.P (Pa) | Exhaust Fan Motor (Hp) | Electrical FLA | Electrical MCA | Electrical MOCP | Electrical V/Ph/Hz | Weight | Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ERV-1 | Renew Aire | HE-2XJRTV-S15UU | 566.34 | 248.84 | 1.5 | 566.34 | 248.84 | 1.5 | 8.2-7.6 | 18.5 | 25 | 575/3/60 | 312.525 | |
| ERV-2 | Renew Aire | HE10-JRTV-S15EE-DGNT-L | 236 | 235.97 | 1/3 | 236 | 248.84 | 1/3 | 1.73 | 3.9 | 15 | 208/1/60 | 188.241 | |

## Grilles and Diffusers

| Tag | Type | Manufacturer | Model | Notes |
|---|---|---|---|---|
| A | Square Plaque Diffuser | E.H. Price | SPD | 600 x 600 mm nominal face, frame style to suite ceiling type and color to be selected by architect. Size indicated on drawings. |
| B | Supply Air Grille | E.H. Price | 520 Series | Color to be selected by architect. Size indicated on drawings. |
| C | Return Air Grille | E.H. Price | 80 Series | 13 x 13 x 13 mm Aluminum egg crate and color to be selected by architect. Size indicated on drawings. |
| D | Transfer/Exhaust Grille | E.H. Price | 530 Series | 19 mm spacing and color to be selected by architect. Size indicated on drawings. |
| E | Door Grille | E.H. Price | STG Series | Aluminum construction, mounted on door at lower lever. Blades Down towards to the floor. Size indicated on drawings. |
| F | Linear Supply Diffuser | E.H. Price | SDB 100 | 1200 mm long, 1 slot with 1" slot complete with plenum and damper. Color to be selected by architect. |

## Exhaust Fans

| Tag | Service | Location | Manufact... | Model | Airflow (L/s) | E.S.P (Pa) | Motor(Hp) | Motor RPM | V/Ph/Hz | Speed control | Sound Power | Weight (kg) | Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| EF-1 | Vehicle Exhaust | Roof | PCI | SQBI-120 | 1132.67 | 1493 | 5 | 3500 | 575/3/60 | - | - | 120 | Cash Allowance |
| EF-2 | Garage Exhaust | Roof | Greenheck | GB-220 | 2359.73 | 248.84 | 1.49 | 891 | 575/3/60 | - | - | 61.24 | |
| EF-3 | Laundry Exhaust | Roof | Greenheck | G-100HP-A | 143.94 | 248.84 | 0.19 | 1725 | 208/1/60 | - | - | 22.23 | |
| EF-4 | Bunker Gear Room Exhaust | Roof | Greenheck | G-097-A | 94.389 | 248.84 | 0.19 | 1725 | 208/1/60 | - | - | 22.23 | |

## Pumps

| TAG | SERVICE | LOCATION | MANUFACTURER | TYPE/SERIES | MODEL | FLUID TYPE | RPM | CAPACITY (L/s) | HEAD (kPa) | MOTOR SIZE POWER (Hp) | VFD (Y/N) | ELECTRICAL (V/Ph/Hz) | PRESSURE RATING (kPa) | COMMENTS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DWRPMP -1 | DHW RECIRC | MECHANICAL ROOM | Bell & Gossett | EcoCIRC | XL N 20-35 | DOMESTIC WATER | 2,950 | 0.3 | 44.8 | 1/12 | N | 120/1/60 | 1,206.6 | STAINLESS STEEL BODY |
| P-2 | IN-FLOOR HEATING | MECHANICAL ROOM | Bell & Gossett | PL | PL-55 | DOMESTIC WATER | 3,250 | 0.95 | 104.6 | 2/5 | N | 120/1/60 | - | |
| P-3 | IN-FLOOR HEATING | MECHANICAL ROOM | Bell & Gossett | PL | PL-45 | DOMESTIC WATER | 3,300 | 0.95 | 59.78 | 1/6 | N | 120/1/60 | - | REFER TO HYDRONIC SYSTEM SCHEMATIC |

## Domestic Hot Water Heater (Hybrid- Heat Pump)

| Tag | Manufacturer | Model | Storage Capacity (L) | First Hour Rating Hybrid Mode (LPH) | Input (KW) | V/Ph/Hz | Notes |
|---|---|---|---|---|---|---|---|
| DHWT-1 | AO Smith | HPTU-80N | 303 | 325 | 4.5/4.5 | 208/1/60 | |

## Kitchen Range Hood

| Tag | Manufacturer | Model | Air Flow(L/s) | S.P.(Pa) | L x W x H (mm) | V/Ph/Hz | Notes |
|---|---|---|---|---|---|---|---|
| RH-1 | Broan | E6436SSLC | 94.4 | 124 | 914.4 x 558.8 x 254 | 115/1/60 | C/W INTERIOR BLOWERS, LIGHTS, ADAPTOR, BACK DRAFT DAMPER, TRANSITION AND WALL CAP. |

## Engine Exhaust System

| Tag | Service | Location | Manufacturer | Model | Airflow (L/s) | E.S.P (Pa) | Notes |
|---|---|---|---|---|---|---|---|
| TPE-1 | Firetruck Engine Exhaust | Apparatus Bay - 130 (Rail System) | PCI | | 330.36 | 845 | COORDINATE PCI |
| TPE-2 | Firetruck Engine Exhaust | Apparatus Bay - 130 (Rail System) | PCI | | 330.36 | 845 | COORDINATE PCI |
| TPE-3 | Firetruck Engine Exhaust | Apparatus Bay - 130 (Rail System) | PCI | | - | - | COORDINATE PCI |

## Air Circulator Fan

| Tag | Manufacturer | Model | Diameter (m) | Location | Electrical V/Ph/Hz | Electrical Max Watts | Weight (Kg) | Notes |
|---|---|---|---|---|---|---|---|---|
| CF-1 | Big Ass Fans | Haiku | 2.13 | Apparatus Bay | 120/1/60 | 42.3 | 11.8 | C/W Cage |
| CF-2 | Big Ass Fans | Haiku | 2.13 | Apparatus Bay | 120/1/60 | 42.3 | 11.8 | C/W Cage |
| CF-3 | Big Ass Fans | Haiku | 2.13 | Apparatus Bay | 120/1/60 | 42.3 | 11.8 | C/W Cage |
| CF-4 | Big Ass Fans | Haiku | 2.13 | Apparatus Bay | 120/1/60 | 42.3 | 11.8 | C/W Cage |
| WF-1 | Hessaire | 12HAFO | 0.3048 | Bunker Gear Room | 120/1/60 | - | 7.7 | C/W Mounting |
| WF-2 | Hessaire | 12HAFO | 0.3048 | Bunker Gear Room | 120/1/60 | - | 7.7 | C/W Mounting |
| WF-3 | Hessaire | 12HAFO | 0.3048 | Hose Room | 120/1/60 | - | 7.7 | C/W Mounting |
| WF-4 | Hessaire | 12HAFO | 0.3048 | Laundry Room | 120/1/60 | - | 7.7 | C/W Mounting |

## Louvres

| Tag | Type | Manufacturer | Model | Length (mm) | Height (mm) | Airflow (L/s) | Notes |
|---|---|---|---|---|---|---|---|
| L1 | Inlet Louvre | E.H. PRICE | DE439 | 600 | 750 | 802.31 | 0.22 m^2 Free Area Minimum |
| L2 | Inlet Louvre | E.H. PRICE | DE439 | 600 | 750 | 802.31 | 0.22 m^2 Free Area Minimum |
| L3 | Inlet Louvre | E.H. PRICE | DE439 | 600 | 750 | 802.31 | 0.22 m^2 Free Area Minimum |
| L4 | Exhaust Louvre | E.H. PRICE | DE439 | 1200 | 450 | 1132.67 | 0.25 m^2 Free Area Minimum |
| L4 | Inlet Louvre | E.H. PRICE | DE439 | 1200 | 450 | 1132.67 | 0.25 m^2 Free Area Minimum |

## PLUMBING FIXTURE SCHEDULE

| FIXTURE TAG | DESCRIPTION | CONNECTION SIZES DCW | DHW | SAN | VENT | REMARKS |
|---|---|---|---|---|---|---|
| WC-1/WC-2 | WC - Flush Tank | 25 | n/a | 100 | 38 | |
| L-1/L-2 | Lavatory | 12 | 12 | 32 | 32 | |
| S-1 | Kitchen Two Comp. Sink | 12 | 12 | 38 | 32 | |
| S-2 | Three Comp. Sink | 12 | 12 | 50 | 38 | |
| JS-1 | Mop / Janitor's Sink | 20 | 20 | 75 | 38 | |
| SH-1 | Shower | 12 | 12 | 50 | 38 | |
| DW-1 | Dishwasher (Domestic) | n/a | 12 | 38 | 32 | INDIRECT CONNECTION TO SINK TAILPIECE |
| HB-1 | Hose Bibb | 20 | n/a | n/a | n/a | C/W ATMOSPHERIC VACUUM BREAKER |
| FD-1 | 4" F.D | n/a | n/a | 100 | 38 | |
| FD-1 | 3" F.D | n/a | n/a | 75 | 38 | |
| FD-1 | 2" F.D | n/a | n/a | 50 | 38 | |
| EW-1 | Eyewash Station | 12 | 12 | 38 | 32 | TEMPERED WATER FROM T.M.V |


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| 6 | ISSUED FOR TENDER REVIEW | 2024-03-08 |
| 5 | ISSUED FOR PERMIT | 2024-01-24 |
| 4 | ISSUED FOR 90% CD | 2024-01-19 |
| 3 | ALECTRA COORDINATION | 2023-12-18 |
| 2 | ISSUED FOR DESIGN DEVELOPMENT | 2023-10-06 |
| 1 | ALECTRA SERVICE REQUEST | 2023-08-11 |

DRAWING TITLE:

MECHANICAL EQUIPMENT SCHEDULE I

ISSUE DATE: 2024-05-01

DRAWN BY: Author CHECKED BY:Checker

PROJECT NO.: CM-22-281 SCALE: 1 : 1

DRAWING NO.: REVISION:

M-610 8


LD_OT DATE: 3/1/2024 4:45:26 PM J:

| Radiant Floor Heating Capacity Output Schedule (Klimatrol Environmental Systems) (ALTERNATIVE PRICE #1) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Zone | Manufacturer | Total Output (KW) | Flow (L/S) | EWT (°C) | LWT (°C) | Fluid Pressure Drop (kPA) | Pipe Spacing (mm) | Area (m2) | Output per Area (KW/m2) | Surface Temperature (°C) | Comment |
| Apparatus Bay | Klimatrol | 32.34 | 0.9 | 54.4 | 43.3 | 104.51 | 228.6 | 292.9 | 110.4 | 26.1 | 16.1°C Ambient |

- Klimatrol Environmental Systems Ltd. (905) 454-1742 Is the basis of design. Alternate acceptable Uponor.
- Supply Klimatrol Hydronic System consisting of - 2 x 'ANURAV CABINETS' c/w (5/8" Raupex PEXa, Heat exchanger, pumps, BACnet Controllers, Manifolds, Cabinets, Zone Valves, Actuators and Transformer, Pipe Ties, Bend Guides, ).
- Supplier must rep their provided product and prove 10 years in business experience with proven 10 successfully completed jobs of similar size.
- Secure RAUPEX piping to dedicated circuits to wire mesh grid. Wire mesh and insulation provided by General Contractor.
- Minimum 11/2" concrete covering over 5/8" Raupex pipes at 9" and 6" cc.
- Sleeve Raupex across expansion joints and wherever pipe passes out of the slab.
- Install manifolds in serviceable location as indicate on floor plan, ensure cabinets are level and square, purge all air from system when filling
- Only Everloc couplers shall be used if pipe splice is required.
- Only as per Klimatrol design. Klimatrol shall provide detailed system Loop Design Shop Drawings for submittal and construction. Contractor shall not deviate from approved drawings.
- Apply a 68 lb air pressure test to manifolds and pipe field for concrete pours and the duration of building construction.
- Contact Klimatrol to witness installation and provide inspection report for each area immediately prior to concrete emplacement.
- Fluid fill is base building treated 40% PG.

| Boiler | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Tag | Manufacturer | Model | Service | Location | Rating (KW) | V/Ph/Hz | Weight (Kg) | Remarks |
| B-1 | PRECISION BOILER | PCW1-047B-600-150 | In-Floor Heating | Mechanical Room | 47 | 575/3/60 | 272.15 | - |

| Expansion Tank | | | | | | | |
|---|---|---|---|---|---|---|---|
| Tag | Servicing | Manufacturer | Model | Fluid | Tank Size (L) | Max. Working Pressure (Kpa) | Max/Min Temperature (C) |
| ET-1 | Domestic Hot Water | Armtrol | ST-12 | Water | 26.7 | 1034 | 60/4.4 |
| ET-2 | Radiant Floor Heating | Armtrol | ST-12 | Water | 26.7 | 1034 | 60/4.4 |

| Trap Seal Primer | | | | | | |
|---|---|---|---|---|---|---|
| Tag | Servicing | Manufacturer | Model | Voltage | Amps | Notes |
| TSP-1 | Floor Drains | Precision Plumbing | PT-4 | 120/1/60 | 0.1 | Refer to plan for location. Install 3/4" reduced pressure type back flow preventer on inlet to meet CSA B64.10 requirements. |
| TSP-2 | Floor Drains | Precision Plumbing | PT-6 | 120/1/60 | 0.1 | |

| Bottle Filling Station | | | | | |
|---|---|---|---|---|---|
| Tag | Manufacturer | Model | Voltage | Rated Watts | Notes |
| BF-1 | Elkay | EZWSSM | 115/1/60 | 15 | Surface Mount Bottle Filling Station c/w filter. |


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| 4 | ISSUED FOR 99% CD | 2024-01-19 |
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| 2 | ISSUED FOR DESIGN DEVELOPMENT | 2023-10-06 |
| 1 | ALECTRA SERVICE REQUEST | 2023-08-11 |

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DRAWN BY: Author CHECKED BY:Checker

PROJECT NO.: CM-22-281 SCALE: 1 : 1

DRAWING NO.: M-611

REVISION: 8

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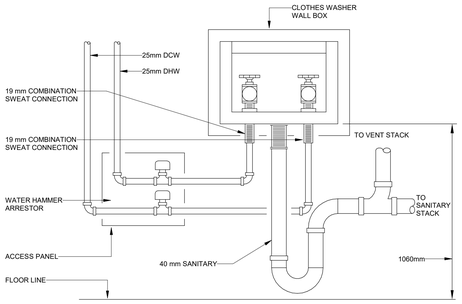


NOTE:
REFER TO WASHER EXTRACTOR'S INSTALLATION DETAILS FOR COMPLETE AND ADDITIONAL INFORMATION FOR PIPING CONNECTION.

## 1 LAUNDRY BOX
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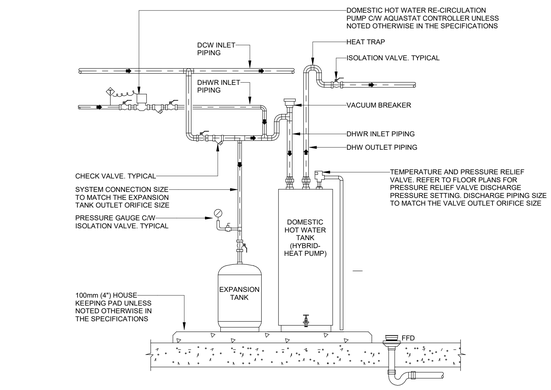


NOTE:
REFER TO HYBRID-HEAT PUMP DHWT INSTALLATION DETAILS FOR COMPLETE AND ADDITIONAL INFORMATION FOR PIPING CONNECTION.

## 2 DOMESTIC HOT WATER TANK
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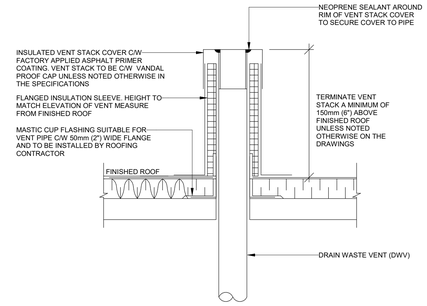


## 3 DWV ROOF PENETRATION & VENT CAP COVER
SCALE:N.T.S.




## 4 SANITARY & STORM WATER CLEANOUTS
SCALE:N.T.S.




## 5 HVAC PIPE ROOF PENETRATION & FLASHING
SCALE:N.T.S.




## 6 DUCTWORK ROOF PENETRATION & FLASHING
SCALE:N.T.S.




## 7 PIPE PENETRATION THROUGH FIRE RATED WALL
SCALE:N.T.S.




## 8 PIPING HANGERS AND SUPPORT
SCALE:N.T.S.




| REQUIRED CLEARANCES FOR PRESSURE VACUUM BREAKER DEVICES | | | | |
|---|---|---|---|---|
| CENTRELINE HEIGHT ABOVE FLOOR | | MINIMUM CLEARANCE (mm) | | |
| MINIMUM (mm) | MAXIMUM (mm) | ABOVE DEVICE | IN FRONT | BEHIND |
| N/A | 1500 | 300 | 750 | 20 |

## 9 INTERIOR HOSE BIBB PRESS. VAC. BREAKER
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| 2 | ISSUED FOR DESIGN DEVELOPMENT | 2023-10-06 |
| 1 | ALECTRA SERVICE REQUEST | 2023-08-11 |

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MECHANICAL DETAILS I

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PROJECT NO.: CM-22-281 SCALE: N.T.S.

DRAWING NO.: M-641 REVISION: 8

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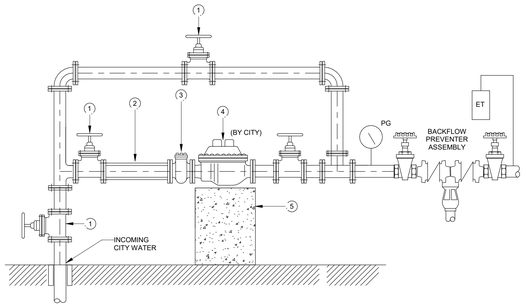
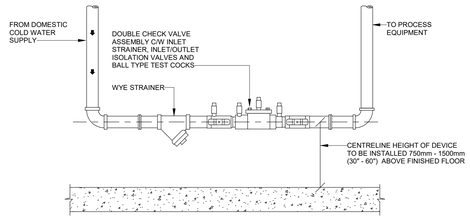



1. BUTTERFLY VALVE
2. STYLE 912 FLANGED ADAPTER ROCKWELL MIN. 4-13/2 GALV. ANCHOR RODS, GALV. NUTS 8 GALV. WASHERS
3. STRAINER
4. WATER METER, COMPOUND
5. CONCRETE BASE

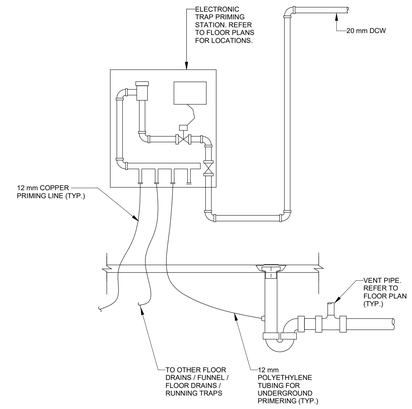
NOTE:
- METER TO BE SET A MINIMUM OF 3" CLEAR OF WALLS
- APPROVED PIPE JOINT COMPOUND TO BE USED ON ALL THREADED JOINTS
- USE DUCTILE IRON PIPE WITH 125 LB FLANGES FOR WATER METER PIPING WITH BY-PASS.
- METER INSTALLATION TO BE IN ACCORDANCE TO LOCAL CODE

## 1 WATER METER ASSEMBLY
SCALE:N.T.S.




| REQUIRED CLEARANCES FOR DOUBLE CHECK VALVE ASSEMBLY | | | | |
|---|---|---|---|---|
| CENTRELINE HEIGHT ABOVE FLOOR | | MINIMUM CLEARANCE (mm) | | |
| MINIMUM (mm) | MAXIMUM (mm) | ABOVE DEVICE | IN FRONT | BEHIND |
| 750 | 1500 | 300 | 750 | 20 |

## 2 DOUBLE CHECK VALVE ASSEMBLY
SCALE:N.T.S.




## 3 ELECTRONIC TRAP PRIMING STATION
SCALE:N.T.S.




## 4 DISHWASHER PLUMBING
SCALE:N.T.S.




## 5 21 13 00.01 FIRE DEPARTMENT CONNECTION
SCALE:N.T.S.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MECHANICAL DETAILS II

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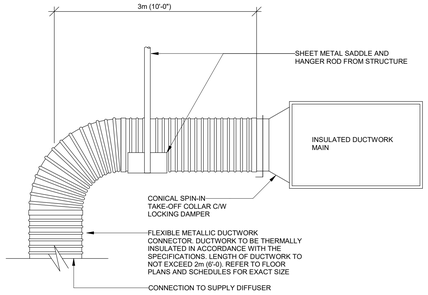
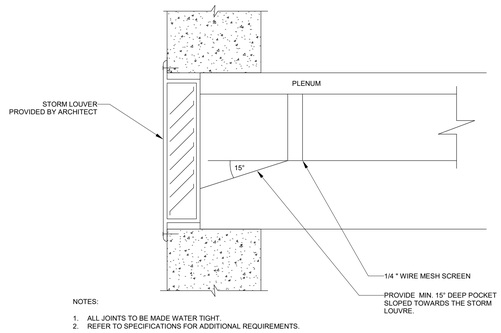
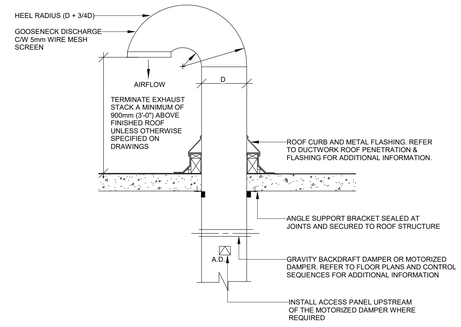
[ PLOT DATE: 5/1/2024 8:46:44 AM ]



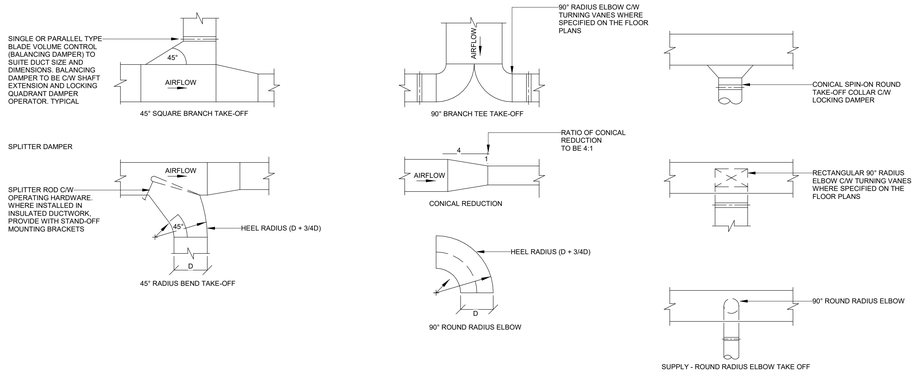

1 FLEXIBLE METALLIC DUCTWORK
SCALE:N.T.S.




2 DUCTWORK CONNECTION TO STORM LOUVRE
SCALE:N.T.S.




3 DUCT THROUGH ROOF PENETRATION & TERMINATION
SCALE:N.T.S.




4 DUCTWORK FITTINGS & TAKE-OFF'S
SCALE:N.T.S.

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FIRE STATION 123

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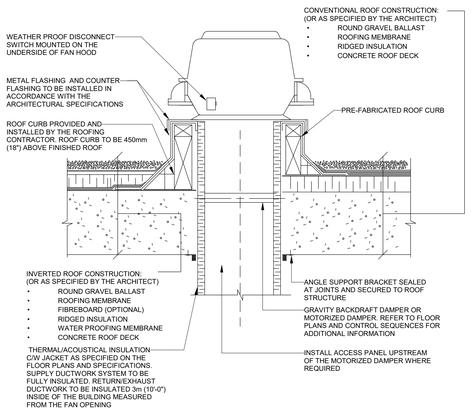
SEALS

| NO. | ISSUES/REVISIONS | DATE |
|---|---|---|
| 8 | ISSUED FOR TENDER | 2024-05-01 |
| 7 | RESPONSE TO PERMIT COMMENTS | 2024-03-26 |
| 6 | ISSUED FOR TENDER REVIEW | 2024-03-08 |
| 5 | ISSUED FOR PERMIT | 2024-01-24 |
| 4 | ISSUED FOR 99% CD | 2024-01-19 |
| 3 | ALECTRA COORDINATION | 2023-12-18 |
| 2 | ISSUED FOR DESIGN DEVELOPMENT | 2023-10-06 |
| 1 | ALECTRA SERVICE REQUEST | 2023-08-11 |

DRAWING TITLE:
MECHANICAL DETAILS III

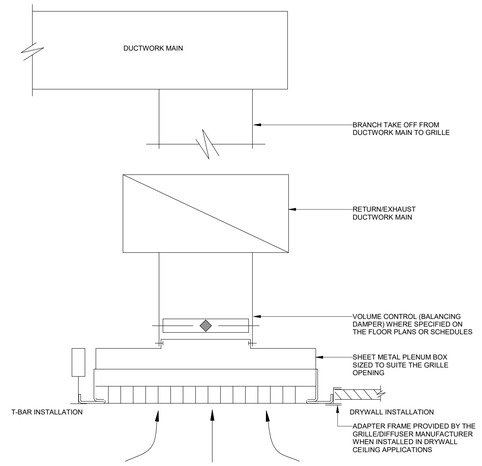
ISSUE DATE: 2024-05-01
DRAWN BY: Author CHECKED BY:Checker
PROJECT NO.: CM-22-281 SCALE: N.T.S.
DRAWING NO.: M-643 REVISION: 8

[ PLOT DATE: 5/1/2024 8:48:48 PM ]



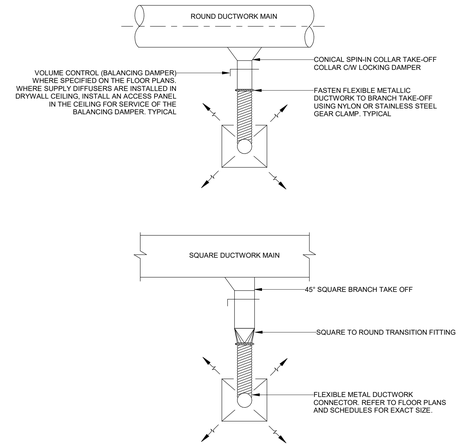

1 23 34 00.08 ROOF MOUNTED EXHAUST FAN

SCALE:N.T.S.




2 23 30 42.02 CEILING MOUNTED GRILLE

SCALE:N.T.S.




3 23 30 09.02 FLEXIBLE METALLIC DUCTWORK CONNECTION

SCALE:N.T.S.




4 23 30 42.01 CEILING MOUNTED DIFFUSER

SCALE:N.T.S.




5 23 30 29.01 FUSIBLE LINK DAMPER

SCALE:N.T.S.

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| 2 | ISSUED FOR DESIGN DEVELOPMENT | 2023-10-06 |
| 1 | ALECTRA SERVICE REQUEST | 2023-08-11 |

DRAWING TITLE:

MECHANICAL DETAILS IV

ISSUE DATE: 2024-05-01

DRAWN BY: Author CHECKED BY:Checker

PROJECT NO.: CM-22-281 SCALE: N.T.S.

DRAWING NO.: M-644

REVISION: 8

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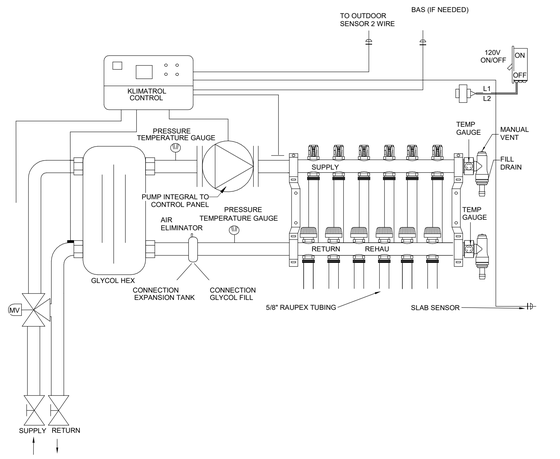
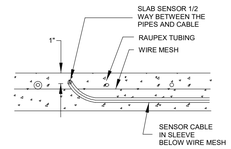


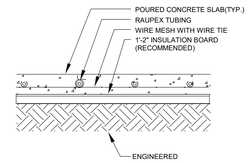

1 KILAMATROL PRE-BUILT RFH CABINET DETAILS

SCALE:N.T.S.




2 KILAMATROL FLOOR HEAT SLAB SENSOR

SCALE:N.T.S.




3 KILAMATROL SLAB ON GRADE APPLICATION

SCALE:N.T.S.




4 KLIMATROL SLEEVING DETAIL

SCALE:N.T.S.




5 KILAMATROL SLEEVING AND NAIL GUARD APPLICATION

SCALE:N.T.S.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| 2 | ISSUED FOR DESIGN DEVELOPMENT | 2023-10-06 |
| 1 | ALECTRA SERVICE REQUEST | 2023-08-11 |

DRAWING TITLE:

MECHANICAL DETAILS V

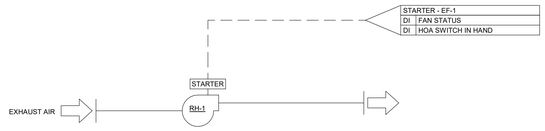
ISSUE DATE: 2024-05-01

DRAWN BY: Author CHECKED BY:Checker

PROJECT NO.: CM-22-281 SCALE: N.T.S.

DRAWING NO.: M-645 REVISION: 8

PLOT DATE: 5/1/2024 4:46:30 PM



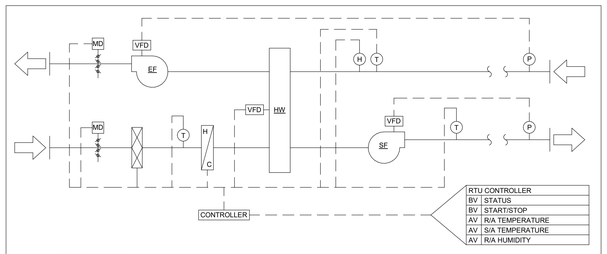

OPERATING MODE:
1. THE SYSTEM SHALL OPERATE INDEPENDENTLY USING CONTROLLER SUPPLIED WITH HOOD. BAS TO MONITOR STATUS OF EXHAUST FAN.

FIRE ALARM MODE:
1. EXHAUST FAN SHALL FAIL LAST (CONTINUE TO RUN IF RUNNING) DURING FIRE ALARM.

SYSTEM ALARMS & PRIORITY AT BAS:
- FAN FAILURE: ALARM TROUBLE SIGNAL FROM CONTROLLER

SYSTEM TRENDS AT BAS:
- FAN UNIT STATUS
- EQUIPMENT OPERATING HOURS

## 1 KITCHEN EXHAUST FAN CONTROL SEQUENCE
SCALE:N.T.S.




OPERATING MODE:
1. THE SYSTEM SHALL BE ENABLED ACCORDING TO THE FOLLOWING MODE:
   - SCHEDULED RUN TIME MODE

INITIAL SET UP:
1. DOAS SHALL BE NORMALLY DISABLED.
2. MOTORIZED DAMPERS SHALL BE NORMALLY CLOSED.
3. FANS SHALL BE BALANCED TO A FIELD DETERMINED AIRFLOW & STATIC PRESSURE AS PER THE VALUES INDICATED ON THE DRAWINGS DURING SYSTEM BALANCING AND COMMISSIONING.
4. P1 SHALL BE LOCATED APPROXIMATELY TWO-THIRDS DOWNSTREAM OF SUPPLY FAN. P2 SHALL BE LOCATED APPROXIMATELY TWO-THIRDS UPSTREAM OF EXHAUST FAN. FINAL LOCATION SHALL BE COORDINATED WITH THE BALANCING CONTRACTOR AND THE CONTROLS CONTRACTOR.
5. VFD SPEED SHALL BE FIELD OPTIMIZED TO AVOID FAN (TORQUE AND CURRENT) STALL CONDITIONS AND SHALL NOT OPERATE BELOW 30% SPEED
6. SYSTEM SHALL BE ENABLED BASED ON SCHEDULED RUN TIME AT VRV BAS.
7. FAN SHALL BE ENABLED/DISABLED LOCALLY AT THE UNIT CONTROLLER/VFD OR REMOTELY THROUGH THE BAS.

DOAS MODULE:
1. THE DOAS OA AND EA FANS WILL RUN CONTINUOUSLY WHEN UNIT IS ENABLED.
2. UNIT TO CONTROL PREHEAT TO PREVENT FROST.
3. ENTHALPY WHEEL SHALL RUN WHEN SYSTEM IS ENABLED.

FAN CONTROL:
1. ON COMMAND TO START MOTORIZED DAMPERS SHALL OPEN. UPON PROOF OF MOTORIZED DAMPER POSITION FAN SHALL BE ENABLED. MD1 SHALL BE HARD WIRED INTERLOCKED WITH F1 TO ENSURE CONTROLS OPERATION WHEN FAN IS OPERATING IN "HAND" OR "AUTO" MODE. CONTROLS SIGNAL SHALL BE DUPLICATED AT THE BAS.
2. FANS SHALL MODULATE TO MAINTAIN THE STATIC PRESSURE SET POINT DETERMINED BY P1 AND P2.

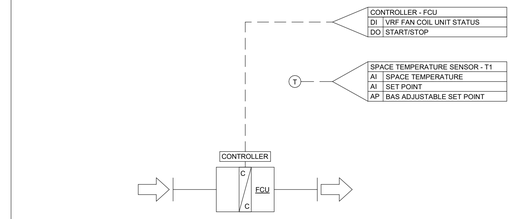
FIRE ALARM MODE:
1. FAN SHALL SHUT DOWN DURING FIRE ALARM.

FAN FAILURE:
1. UPON FAN FAILURE, RESPECTIVE DAMPER SHALL REMAIN OPEN.

SYSTEM ALARMS & PRIORITY AT BAS:
- UNIT FAILURE : AS DETERMINED BY CONTROLLER

SYSTEM TRENDS AT BAS:
- UNIT STATUS
- UNIT FAULT
- RUN AMPS
- STATIC PRESSURE
- EQUIPMENT OPERATING HOURS

## 2 ENERGY RECOVERY VENTILATOR CONTROL SEQUENCE
SCALE:N.T.S.




OPERATING MODE:
1. THE SYSTEM SHALL BE ENABLED ACCORDING TO THE FOLLOWING MODE:
   - SPACE TEMPERATURE CONTROL MODE

INITIAL SET UP:
1. VRF FAN COIL UNIT SHALL BE NORMALLY DISABLED.
2. T1 SHALL MAINTAIN THE SPACE TEMPERATURE SET POINT.

VRF FAN COIL UNIT CONTROL:
1. PROVIDE STAND ALONE PACKAGE DX FAN COIL UNIT AND CONTROL PANEL.
2. VRF SHALL PROVIDE DUAL COOLING AND HEATING FUNCTIONS.

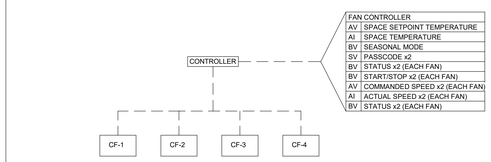
TEMPERATURE CONTROL:
- T1 SHALL BE SET TO (24)°C IN COOLING MODE.
- T1 SHALL BE SET TO (22)°C IN HEATING MODE.

1. WHEN IN COOLING MODE:
   - IF THE SPACE TEMPERATURE RISES ABOVE SET POINT, COOLING MODE WILL BE INITIATED AND VRF FAN COIL UNIT SHALL BE ENABLED TO MAINTAIN THE T1 SET POINT.
2. WHEN IN HEATING MODE:
   - IF THE SPACE TEMPERATURE DROPS BELOW SET POINT, HEATING MODE WILL BE INITIATED AND VRF FAN COIL UNIT SHALL BE ENABLED TO MAINTAIN THE T1 SET POINT.

SYSTEM ALARMS & PRIORITY AT BAS:
- VRF FAN COIL UNIT FAILURE: COMMANDED ON/CLOSED FEEDBACK
- SPACE TEMPERATURE OUT OF RANGE (+/- 2°C)

SYSTEM TRENDS AT BAS:
- VRF FAN COIL UNIT STATUS
- SPACE TEMPERATURE
- EQUIPMENT OPERATING HOURS

## 3 VRV FAN COIL UNIT CONTROL SEQUENCE
SCALE:N.T.S.



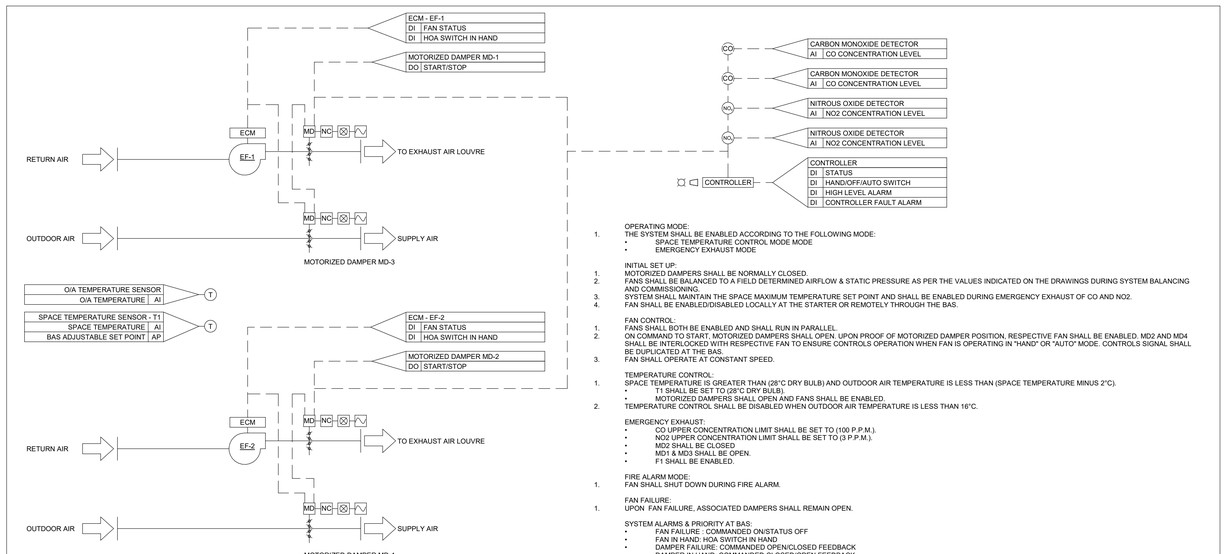

OPERATING MODE:
1. THE SYSTEM SHALL OPERATE INDEPENDENTLY USING FACTORY SUPPLIED INTELLIGENT CONTROLLER. THE SYSTEM SHALL OPERATE IN WINTER AND SUMMER MODES.
2. SPACE TEMPERATURE SETPOINT RESET TO BE POSSIBLE THROUGH BAS.

FIRE ALARM MODE:
1. FAN SHALL SHUT DOWN DURING FIRE ALARM.

SYSTEM ALARMS & PRIORITY AT BAS:
- FAN FAILURE: ALARM TROUBLE SIGNAL FROM CONTROLLER
- SPACE TEMPERATURE OUT OF RANGE (+/- 2°C)

SYSTEM TRENDS AT BAS:
- FAN UNIT STATUS
- SPACE TEMPERATURE
- EQUIPMENT OPERATING HOURS

## 4 CEILING MOUNTED DESTRATIFICATION FAN CONTROL SEQUENCE
SCALE:N.T.S.




OPERATING MODE:
1. THE SYSTEM SHALL BE ENABLED ACCORDING TO THE FOLLOWING MODE:
   - SPACE TEMPERATURE CONTROL MODE MODE
   - EMERGENCY EXHAUST MODE

INITIAL SET UP:
1. MOTORIZED DAMPERS SHALL BE NORMALLY CLOSED.
2. FANS SHALL BE BALANCED TO A FIELD DETERMINED AIRFLOW & STATIC PRESSURE AS PER THE VALUES INDICATED ON THE DRAWINGS DURING SYSTEM BALANCING AND COMMISSIONING.
3. SYSTEM SHALL MAINTAIN THE SPACE MAXIMUM TEMPERATURE SET POINT AND SHALL BE ENABLED DURING EMERGENCY EXHAUST OF CO AND NO2.
4. FAN SHALL BE ENABLED/DISABLED LOCALLY AT THE STARTER OR REMOTELY THROUGH THE BAS.

FAN CONTROL:
1. FANS SHALL BOTH BE ENABLED AND SHALL RUN IN PARALLEL.
2. ON COMMAND TO START, MOTORIZED DAMPERS SHALL OPEN. UPON PROOF OF MOTORIZED DAMPER POSITION, RESPECTIVE FAN SHALL BE ENABLED. MD2 AND MD4 SHALL BE INTERLOCKED WITH RESPECTIVE FAN TO ENSURE CONTROLS OPERATION WHEN FAN IS OPERATING IN "HAND" OR "AUTO" MODE. CONTROLS SIGNAL SHALL BE DUPLICATED AT THE BAS.
3. FAN SHALL OPERATE AT CONSTANT SPEED.

TEMPERATURE CONTROL:
1. SPACE TEMPERATURE IS GREATER THAN (28°C DRY BULB) AND OUTDOOR AIR TEMPERATURE IS LESS THAN (SPACE TEMPERATURE MINUS 2°C).
   - T1 SHALL BE SET TO (28°C DRY BULB).
   - MOTORIZED DAMPERS SHALL OPEN AND FANS SHALL BE ENABLED
2. TEMPERATURE CONTROL SHALL BE DISABLED WHEN OUTDOOR AIR TEMPERATURE IS LESS THAN 16°C.

EMERGENCY EXHAUST:
- CO UPPER CONCENTRATION LIMIT SHALL BE SET TO (100 P.P.M.).
- N02 UPPER CONCENTRATION LIMIT SHALL BE SET TO (3 P.P.M.).
- MD2 SHALL BE CLOSED
- MD1 & MD3 SHALL BE OPEN.
- F1 SHALL BE ENABLED.

FIRE ALARM MODE:
1. FAN SHALL SHUT DOWN DURING FIRE ALARM.

FAN FAILURE:
1. UPON FAN FAILURE, ASSOCIATED DAMPERS SHALL REMAIN OPEN.

SYSTEM ALARMS & PRIORITY AT BAS:
- FAN FAILURE : COMMANDED ON/STATUS OFF
- FAN IN HAND: HOA SWITCH IN HAND
- DAMPER FAILURE: COMMANDED OPEN/CLOSED FEEDBACK
- DAMPER IN HAND: COMMANDED CLOSED/OPEN FEEDBACK

## 5 23 34 00.03 - APPARATUS BAY FAN CONTROL SEQUENCE
SCALE:N.T.S.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| 1 | ALECTRA SERVICE REQUEST | 2023-08-11 |

DRAWING TITLE:

CONTROL SEQUENCES I

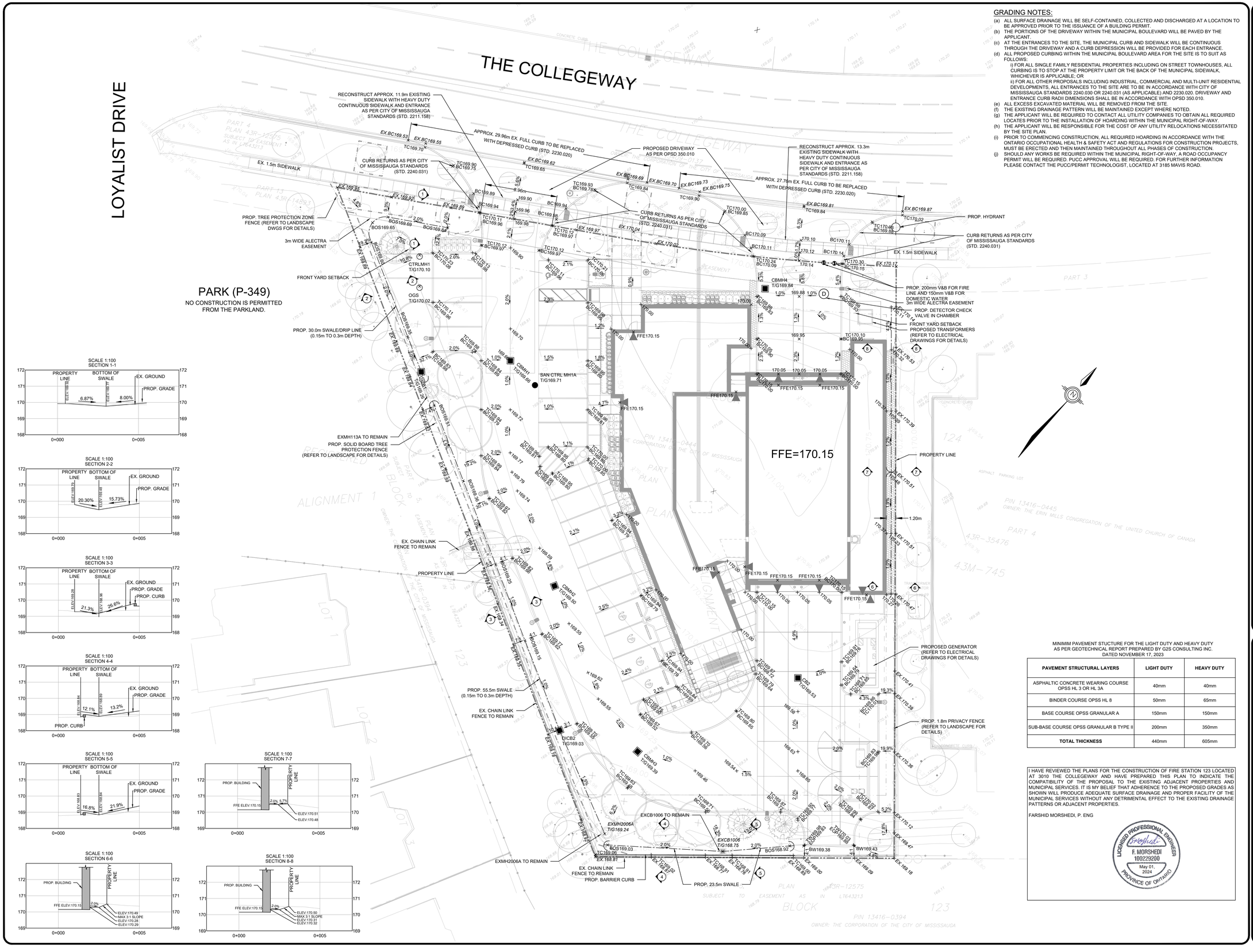
ISSUE DATE: 2024-05-01

DRAWN BY: Author CHECKED BY:Checker

PROJECT NO.: CM-22-281 SCALE: N.T.S.

DRAWING NO.: M-650 REVISION: 8

[ 15.07.DATE 5/1/2024 6:48:05 PM ]




SCALE 1:100
SECTION 1-1




SCALE 1:100
SECTION 2-2




SCALE 1:100
SECTION 3-3




SCALE 1:100
SECTION 4-4




SCALE 1:100
SECTION 5-5




SCALE 1:100
SECTION 6-6




SCALE 1:100
SECTION 7-7




SCALE 1:100
SECTION 8-8




## GRADING NOTES:

(a) ALL SURFACE DRAINAGE WILL BE SELF-CONTAINED, COLLECTED AND DISCHARGED AT A LOCATION TO BE APPROVED PRIOR TO THE ISSUANCE OF A BUILDING PERMIT.
(b) THE PORTIONS OF THE DRIVEWAY WITHIN THE MUNICIPAL BOULEVARD WILL BE PAVED BY THE APPLICANT.
(c) AT THE ENTRANCES TO THE SITE, THE MUNICIPAL CURB AND SIDEWALK WILL BE CONTINUOUS THROUGH THE DRIVEWAY AND A CURB DEPRESSION WILL BE PROVIDED FOR EACH ENTRANCE.
(d) ALL PROPOSED CURBING WITHIN THE MUNICIPAL BOULEVARD AREA FOR THE SITE IS TO SUIT AS FOLLOWS:
  i) FOR ALL SINGLE FAMILY RESIDENTIAL PROPERTIES INCLUDING ON STREET TOWNHOUSES, ALL CURBING IS TO STOP AT THE PROPERTY LIMIT OR THE BACK OF THE MUNICIPAL SIDEWALK, WHICHEVER IS APPLICABLE; OR
  ii) FOR ALL OTHER PROPOSALS INCLUDING INDUSTRIAL, COMMERCIAL AND MULTI-UNIT RESIDENTIAL DEVELOPMENTS, ALL ENTRANCES TO THE SITE ARE TO BE IN ACCORDANCE WITH CITY OF MISSISSAUGA STANDARDS 2240.030 OR 2240.031 (AS APPLICABLE) AND 2230.020. DRIVEWAY AND ENTRANCE CURB RADII DIMENSIONS SHALL BE IN ACCORDANCE WITH OPSD 350.010.
(e) ALL EXCESS EXCAVATED MATERIAL WILL BE REMOVED FROM THE SITE.
(f) THE EXISTING DRAINAGE PATTERN WILL BE MAINTAINED EXCEPT WHERE NOTED.
(g) THE APPLICANT WILL BE REQUIRED TO CONTACT ALL UTILITY COMPANIES TO OBTAIN ALL REQUIRED LOCATES PRIOR TO THE INSTALLATION OF HOARDING WITHIN THE MUNICIPAL RIGHT-OF-WAY.
(h) THE APPLICANT WILL BE RESPONSIBLE FOR THE COST OF ANY UTILITY RELOCATIONS NECESSITATED BY THE SITE PLAN.
(i) PRIOR TO COMMENCING CONSTRUCTION, ALL REQUIRED HOARDING IN ACCORDANCE WITH THE ONTARIO OCCUPATIONAL HEALTH & SAFETY ACT AND REGULATIONS FOR CONSTRUCTION PROJECTS, MUST BE ERECTED AND THEN MAINTAINED THROUGHOUT ALL PHASES OF CONSTRUCTION.
(j) SHOULD ANY WORKS BE REQUIRED WITHIN THE MUNICIPAL RIGHT-OF-WAY, A ROAD OCCUPANCY PERMIT WILL BE REQUIRED. PUCC APPROVAL WILL BE REQUIRED. FOR FURTHER INFORMATION PLEASE CONTACT THE PUCC/PERMIT TECHNOLOGIST, LOCATED AT 3185 MAVIS ROAD.

MINIMIM PAVEMENT STUCTURE FOR THE LIGHT DUTY AND HEAVY DUTY AS PER GEOTECHNICAL REPORT PREPARED BY G2S CONSULTING INC. DATED NOVEMBER 17, 2023

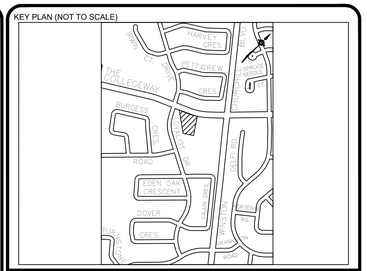
| PAVEMENT STRUCTURAL LAYERS | LIGHT DUTY | HEAVY DUTY |
|---|---|---|
| ASPHALTIC CONCRETE WEARING COURSE OPSS HL 3 OR HL 3A | 40mm | 40mm |
| BINDER COURSE OPSS HL 8 | 50mm | 65mm |
| BASE COURSE OPSS GRANULAR A | 150mm | 150mm |
| SUB-BASE COURSE OPSS GRANULAR B TYPE II | 200mm | 350mm |
| **TOTAL THICKNESS** | 440mm | 605mm |

I HAVE REVIEWED THE PLANS FOR THE CONSTRUCTION OF FIRE STATION 123 LOCATED AT 3010 THE COLLEGEWAY AND HAVE PREPARED THIS PLAN TO INDICATE THE COMPATIBILITY OF THE PROPOSAL TO THE EXISTING ADJACENT PROPERTIES AND MUNICIPAL SERVICES. IT IS MY BELIEF THAT ADHERENCE TO THE PROPOSED GRADES AS SHOWN WILL PRODUCE ADEQUATE SURFACE DRAINAGE AND PROPER FACILITY OF THE MUNICIPAL SERVICES WITHOUT ANY DETRIMENTAL EFFECT TO THE EXISTING DRAINAGE PATTERNS OR ADJACENT PROPERTIES.

FARSHID MORSHEDI, P. ENG

LICENSED PROFESSIONAL ENGINEER F. MORSHEDI 100229200 May 01, 2024 PROVINCE OF ONTARIO

KEY PLAN (NOT TO SCALE)




## LEGEND:

- MH1 PROPOSED STORM MANHOLE
- MH1A PROPOSED SANITARY MANHOLE
- PROPOSED VALVE BOX & WATER SERVICE
- PROPERTY LINE
- OUTLINE OF UNDERGROUND PARKING GARAGE
- EXISTING CATCHBASIN
- EXISTING AREA DRAIN
- EXISTING MANHOLE
- EXISTING TREE
- PROPOSED TREE
- EXISTING FIRE HYDRANT
- EXISTING HYDRO POLE
- EXISTING LIGHT POLE
- BOS169.25 PROPOSED BOTTOM OF SWALE
- EM.23 PROPOSED GRADE
- MH.154.15 PROPOSED TOP OF CURB
- BM.154.25 PROPOSED BOTTOM OF CURB
- 154.22 EX. EXISTING GRADE TO REMAIN
- TGW.141.50 EX. PROPOSED TOP OF RETAINING WALL EXISTING ELEVATION TO REMAIN
- CB1.56.100 TOP ELEVATION OF PROPOSED MANHOLE/AREA DRAIN/CATCH BASIN
- BOS.154.25 PROPOSED BOTTOM OF TOE / RETAINING WALL ELEVATION
- AD PROPOSED AREA DRAIN
- CB PROPOSED CATCH BASIN/DITCH INLET CATCHBASIN
- 2.0% FLOW DIRECTION & SLOPE
- BUILDING DOOR
- PROPOSED TREE PROTECTION ZONE (REFER TO LANDSCAPE DRAWINGS FOR DETAILS)
- PROPOSED SOLID BOARD TREE PROTECTION FENCE (REFER TO LANDSCAPE FOR DETAILS)
- EXISTING CHAIN LINK FENCE TO REMAIN (REFER TO LANDSCAPE FOR DETAILS)
- PROPOSED 1.8m PRIVACY FENCE (REFER TO LANDSCAPE FOR DETAILS)
- PROPOSED TREE PROTECTION FENCE (REFER TO LANDSCAPE FOR DETAILS)

## BENCHMARK:

1. ELEVATIONS ARE REFERRED TO THE CANADIAN GEODETIC DATUM-1928 AND WERE DERIVED FROM THE CITY OF MISSISSAUGA BENCHMARK NO. 824, HAVING A PUBLISHED ELEVATION OF 170.552.

## GENERAL NOTES:

1. ALECTRA TO BE NOTIFIED AND BE ON SITE TO ENCASE THE HYDRO CABLES THAT RUN BELOW THE CONCRETE APRON. THIS WORK MAY OCCUR AT THE SAME TIME AS CONSTRUCTION.

| No. | Revision | Date | By | App. |
|---|---|---|---|---|
| 9 | ISSUED FOR TENDER | 2024-05-01 | GB | FM |
| 8 | ISSUED FOR SITE SERVICES PERMIT | 2024-05-01 | GB | FM |
| 7 | ISSUED FOR BUILDING PERMIT | 2024-05-01 | GB | FM |
| 6 | RE-ISSUED FOR SPA | 2024-05-01 | GB | FM |
| 5 | RE-ISSUED FOR SPA | 2024-03-08 | GB | FM |
| 4 | ISSUED FOR CLASS A ESTIMATE | 2024-01-22 | GB | FM |
| 3 | ISSUED FOR BUILDING PERMIT | 2024-01-22 | GB | FM |

LICENSED PROFESSIONAL ENGINEER F. MORSHEDI 100229200 May 01, 2024 PROVINCE OF ONTARIO

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L3R 9R9, Canada
Tel: (905)470-0015
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Owner/Client:
CITY OF MISSISSAUGA FIRE STATION 123

APPLICANT INFO
DAVID PREMI, 24 MAIN ST. W., SUITE 1800, HAMILTON, ON L8P 1H1
(905)522-0220

OWNER INFO
CITY OF MISSISSAUGA, ADRIANA TANTALO, 300 CITY CENTRE DRIVE
(905)615-3200 EXT. 3395

Location:
3010 THE COLLEGEWAY

Title:
SITE GRADING PLAN

| | | | |
|---|---|---|---|
| Designed By: G.B. | Drawn By: G.B. | Checked By: F.M. | |
| Scale: 1:200 | Date: MAY, 2023 | Drawing No.: C-01 | |
| Project No.: 23394.01 | Site Plan Application No.: SP 24-3 | | |

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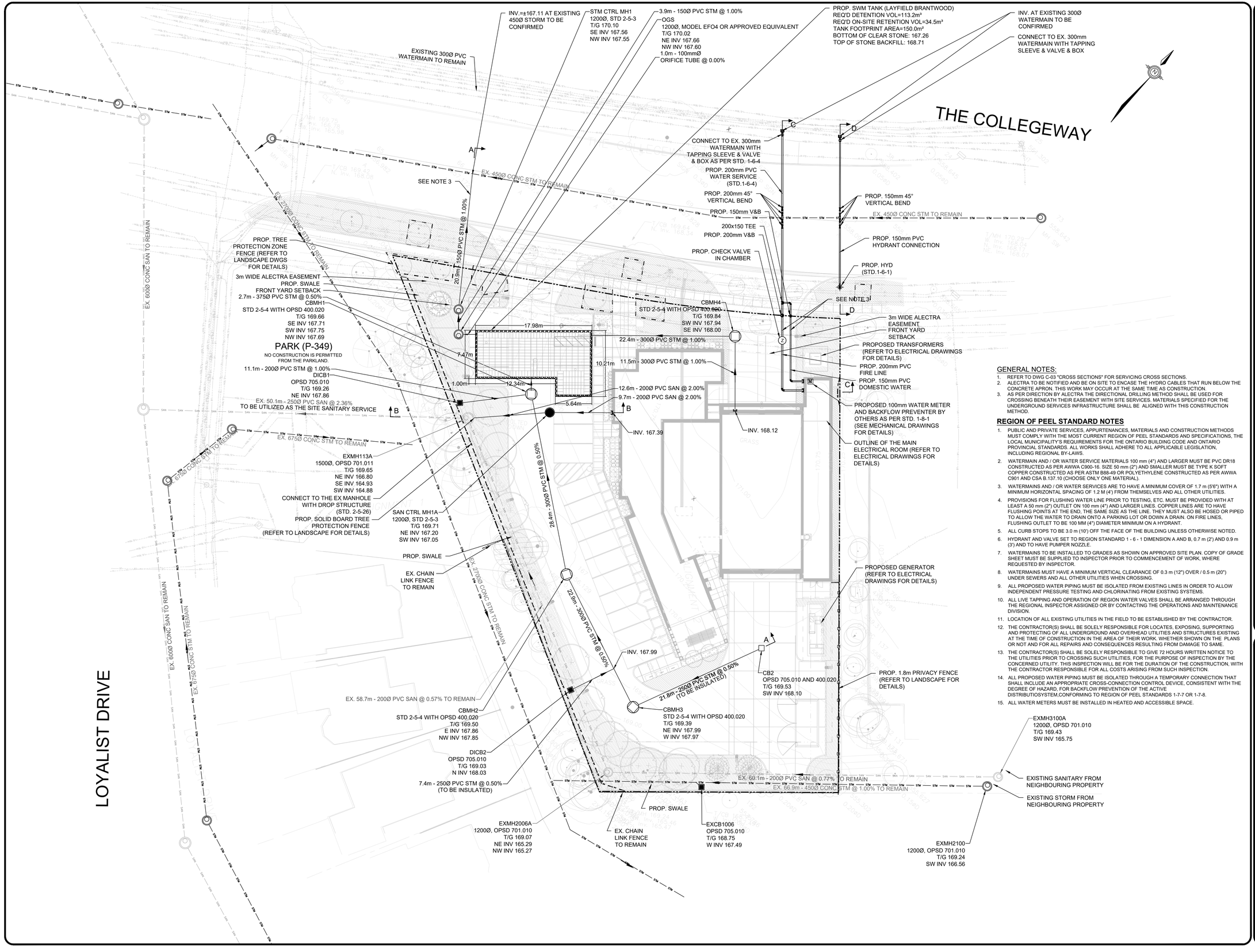
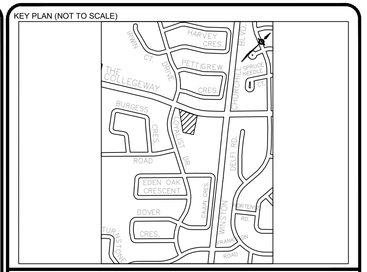



KEY PLAN (NOT TO SCALE)




## LEGEND:

- PROPOSED STORM MANHOLE
- PROPOSED SANITARY MANHOLE
- PROPOSED OIL GRIT SEPARATOR
- PROPOSED V & B
- PROPOSED CHECK VALVE CHAMBER AS PER STD. 1-3-1 WITHOUT BYPASS AND METER
- PROPOSED CATCHBASIN
- PROPOSED AREA DRAIN
- PROPERTY LINE
- BUILDING OUTLINE ABOVE
- EXISTING CATCHBASIN
- EXISTING SANITARY MANHOLE
- EXISTING STORM MANHOLE
- EXISTING FIRE HYDRANT
- EXISTING HYDRO POLE
- EXISTING WATERMAIN
- EXISTING SANITARY SEWER
- EXISTING STORM SEWER
- EXISTING GAS MAIN
- EXISTING HYDRO
- EXISTING BELL CABLE
- EXISTING TV CABLE
- EXISTING BELL CONDUIT
- EXISTING BURIED BELL CABLE
- EXISTING AERIAL ROGERS CABLE
- PROPOSED TREE PROTECTION ZONE (REFER TO LANDSCAPE DRAWINGS FOR DETAILS)
- PROPOSED SOLID BOARD TREE PROTECTION FENCE (REFER TO LANDSCAPE FOR DETAILS)
- EXISTING CHAIN LINK FENCE TO REMAIN (REFER TO LANDSCAPE FOR DETAILS)
- PROPOSED 1.8m PRIVACY FENCE (REFER TO LANDSCAPE FOR DETAILS)
- PROPOSED TREE PROTECTION FENCE (REFER TO LANDSCAPE FOR DETAILS)

## GENERAL NOTES:

1. REFER TO DWG C-03 "CROSS SECTIONS" FOR SERVICING CROSS SECTIONS.
2. ALECTRA TO BE NOTIFIED AND BE ON SITE TO ENCASE THE HYDRO CABLES THAT RUN BELOW THE CONCRETE APRON. THIS WORK MAY OCCUR AT THE SAME TIME AS CONSTRUCTION.
3. AS PER DIRECTION BY ALECTRA THE DIRECTIONAL DRILLING METHOD SHALL BE USED FOR CROSSING BENEATH THEIR EASEMENT WITH SITE SERVICES. MATERIALS SPECIFIED FOR THE UNDERGROUND SERVICES INFRASTRUCTURE SHALL BE ALIGNED WITH THIS CONSTRUCTION METHOD.

## REGION OF PEEL STANDARD NOTES

1. PUBLIC AND PRIVATE SERVICES, APPURTENANCES, MATERIALS AND CONSTRUCTION METHODS MUST COMPLY WITH THE MOST CURRENT REGION OF PEEL STANDARDS AND SPECIFICATIONS, THE LOCAL MUNICIPALITY'S REQUIREMENTS FOR THE ONTARIO BUILDING CODE AND ONTARIO PROVINCIAL STANDARDS. ALL WORKS SHALL ADHERE TO ALL APPLICABLE LEGISLATION, INCLUDING REGIONAL BY-LAWS.
2. WATERMAIN AND / OR WATER SERVICE MATERIALS 100 mm (4") AND LARGER MUST BE PVC DR18 CONSTRUCTED AS PER AWWA C900-16. SIZE 50 mm (2") AND SMALLER MUST BE TYPE K SOFT COPPER CONSTRUCTED AS PER ASTM B88-49 OR POLYETHYLENE CONSTRUCTED AS PER AWWA C901 AND CSA B.137.10 (CHOOSE ONLY ONE MATERIAL).
3. WATERMAINS AND / OR WATER SERVICES ARE TO HAVE A MINIMUM COVER OF 1.7 m (5'6") WITH A MINIMUM HORIZONTAL SPACING OF 1.2 M (4') FROM THEMSELVES AND ALL OTHER UTILITIES.
4. PROVISIONS FOR FLUSHING WATER LINE PRIOR TO TESTING, ETC. MUST BE PROVIDED WITH AT LEAST A 50 mm (2") OUTLET ON 100 mm (4") AND LARGER LINES. COPPER LINES ARE TO HAVE FLUSHING POINTS AT THE END, THE SAME SIZE AS THE LINE. THEY MUST ALSO BE HOSED OR PIPED TO ALLOW THE WATER TO DRAIN ONTO A PARKING LOT OR DOWN A DRAIN. ON FIRE LINES, FLUSHING OUTLET TO BE 100 MM (4") DIAMETER MINIMUM ON A HYDRANT.
5. ALL CURB STOPS TO BE 3.0 m (10') OFF THE FACE OF THE BUILDING UNLESS OTHERWISE NOTED.
6. HYDRANT AND VALVE SET TO REGION STANDARD 1 - 6 - 1 DIMENSION A AND B, 0.7 m (2') AND 0.9 m (3') AND TO HAVE PUMPER NOZZLE.
7. WATERMAINS TO BE INSTALLED TO GRADES AS SHOWN ON APPROVED SITE PLAN. COPY OF GRADE SHEET MUST BE SUPPLIED TO INSPECTOR PRIOR TO COMMENCEMENT OF WORK, WHERE REQUESTED BY INSPECTOR.
8. WATERMAINS MUST HAVE A MINIMUM VERTICAL CLEARANCE OF 0.3 m (12") OVER / 0.5 m (20") UNDER SEWERS AND ALL OTHER UTILITIES WHEN CROSSING.
9. ALL PROPOSED WATER PIPING MUST BE ISOLATED FROM EXISTING LINES IN ORDER TO ALLOW INDEPENDENT PRESSURE TESTING AND CHLORINATING FROM EXISTING SYSTEMS.
10. ALL LIVE TAPPING AND OPERATION OF REGION WATER VALVES SHALL BE ARRANGED THROUGH THE REGIONAL INSPECTOR ASSIGNED OR BY CONTACTING THE OPERATIONS AND MAINTENANCE DIVISION.
11. LOCATION OF ALL EXISTING UTILITIES IN THE FIELD TO BE ESTABLISHED BY THE CONTRACTOR.
12. THE CONTRACTOR(S) SHALL BE SOLELY RESPONSIBLE FOR LOCATES, EXPOSING, SUPPORTING AND PROTECTING OF ALL UNDERGROUND AND OVERHEAD UTILITIES AND STRUCTURES EXISTING AT THE TIME OF CONSTRUCTION IN THE AREA OF THEIR WORK. WHETHER SHOWN ON THE PLANS OR NOT AND FOR ALL REPAIRS AND CONSEQUENCES RESULTING FROM DAMAGE TO SAME.
13. THE CONTRACTOR(S) SHALL BE SOLELY RESPONSIBLE TO GIVE 72 HOURS WRITTEN NOTICE TO THE UTILITIES PRIOR TO CROSSING SUCH UTILITIES, FOR THE PURPOSE OF INSPECTION BY THE CONCERNED UTILITY. THIS INSPECTION WILL BE FOR THE DURATION OF THE CONSTRUCTION, WITH THE CONTRACTOR RESPONSIBLE FOR ALL COSTS ARISING FROM SUCH INSPECTION.
14. ALL PROPOSED WATER PIPING MUST BE ISOLATED THROUGH A TEMPORARY CONNECTION THAT SHALL INCLUDE AN APPROPRIATE CROSS-CONNECTION CONTROL DEVICE, CONSISTENT WITH THE DEGREE OF HAZARD, FOR BACKFLOW PREVENTION OF THE ACTIVE DISTRIBUTIOSYSTEM,CONFORMING TO REGION OF PEEL STANDARDS 1-7-7 OR 1-7-8.
15. ALL WATER METERS MUST BE INSTALLED IN HEATED AND ACCESSIBLE SPACE.

## BENCHMARK:

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| 4 | ISSUED FOR CLASS A ESTIMATE | 2024-01-22 | GB | FM |
| 3 | ISSUED FOR BUILDING PERMIT | 2024-01-22 | GB | FM |

LICENSED PROFESSIONAL ENGINEER — Finished — F. MORSHEDI 100229200 — May 01, 2024 — PROVINCE OF ONTARIO

625 Cochrane Drive, Suite 900
Markham, Ontario
L3R 9R9, Canada
Tel: (905)470-0015
Fax: (905)470-0030

Owner/Client:

CITY OF MISSISSAUGA FIRE STATION 123

| APPLICANT INFO | OWNER INFO |
|---|---|
| DAVID PREMI, 24 MAIN ST. W., SUITE 1800, HAMILTON, ON L8P 1H1 (905)522-0220 | CITY OF MISSISSAUGA, ADRIANA TANTALO, 300 CITY CENTRE DRIVE (905)615-3200 EXT. 3395 |

Location:

3010 THE COLLEGEWAY

Title:

PRELIMINARY SITE SERVICING PLAN

| | | | |
|---|---|---|---|
| Designed By: G.B. | Drawn By: G.B. | Checked By: F.M. | |
| Scale: 1:250 | Date: MAY, 2023 | Drawing No.: C-02 | |
| Project No.: 23394.01 | Site Plan Application No.: SP 24-3 | | |

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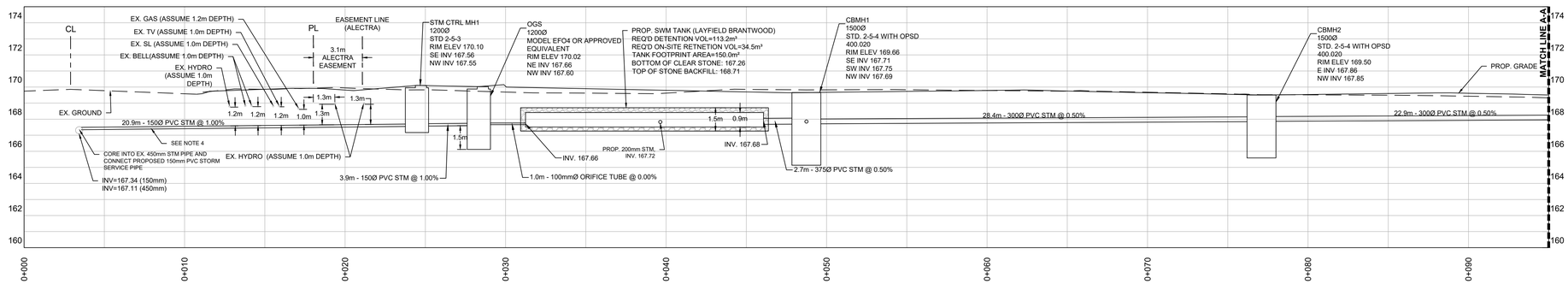
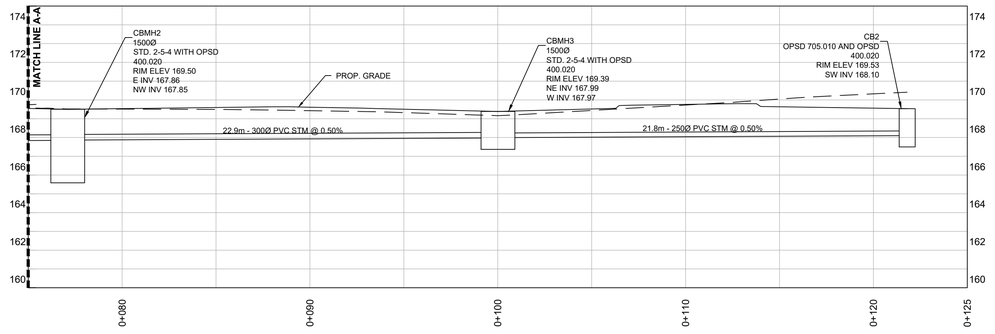


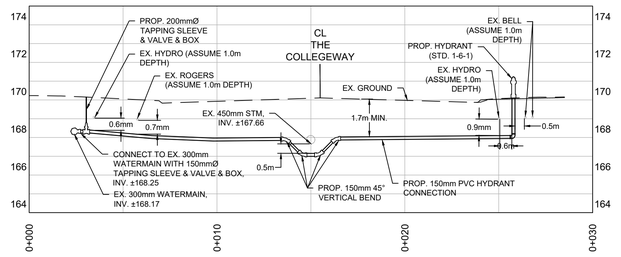

## PROPOSED STORM PROFILE (A-A) (STA. 000 TO STA. 095)

**SC 1:150**



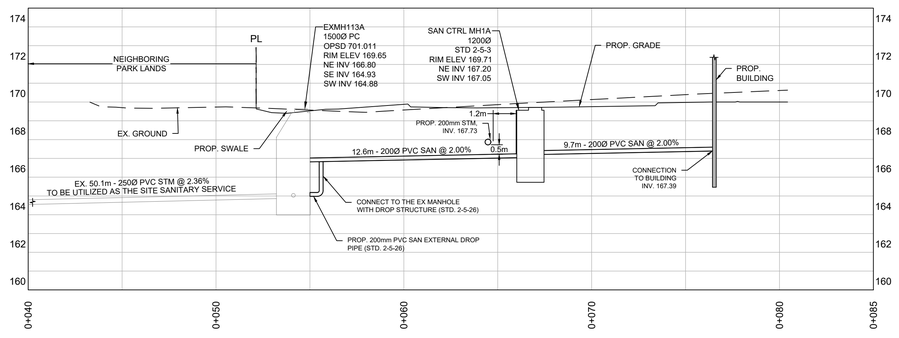

## PROPOSED STORM PROFILE (A-A) (STA. 075 TO STA. 125)

**SC 1:150**



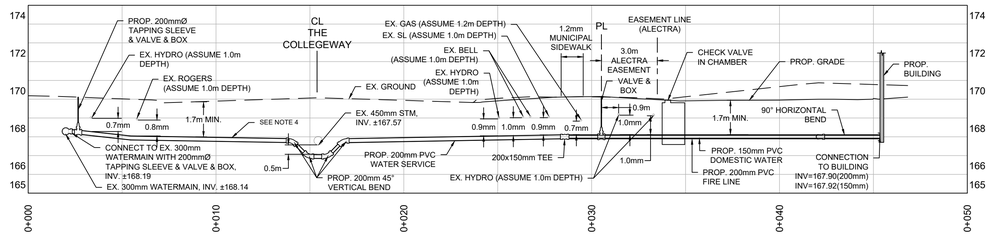

## PROPOSED WATERMAIN PROFILE (D-D) (STA. 000 TO STA. 030)

**SC 1:150**




## PROPOSED SANITARY PROFILE (B-B) (STA. 040 TO STA. 085)

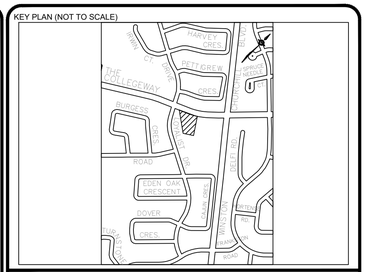
**SC 1:150**




## PROPOSED WATERMAIN PROFILE (C-C) (STA. 000 TO STA. 050)

**SC 1:150**

KEY PLAN (NOT TO SCALE)




GENERAL NOTES:

1. ELEVATIONS ARE REFERRED TO THE CANADIAN GEODETIC DATUM-1928 AND WERE DERIVED FROM THE CITY OF MISSISSAUGA BENCHMARK NO. 824, HAVING A PUBLISHED ELEVATION OF 170.562.
2. REFER TO DWG C-02 FOR SITE SERVICING PLAN.
3. ALECTRA TO BE NOTIFIED AND BE ON SITE TO ENCASE THE HYDRO CABLES THAT RUN BELOW THE CONCRETE APRON. THIS WORK MAY OCCUR AT THE SAME TIME AS CONSTRUCTION.
4. AS PER DIRECTION BY ALECTRA THE DIRECTIONAL DRILLING METHOD SHALL BE USED FOR CROSSING BENEATH THEIR EASEMENT WITH SITE SERVICES. MATERIALS SPECIFIED FOR THE UNDERGROUND SERVICES INFRASTRUCTURE SHALL BE ALIGNED WITH THIS CONSTRUCTION METHOD.

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LICENSED PROFESSIONAL ENGINEER
F. MORSHEDI
100229200
May 01, 2024.
PROVINCE OF ONTARIO

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Markham, Ontario
L3R 9R9, Canada
Tel: (905)470-0015
Fax: (905)470-0030

Owner/Client:

CITY OF MISSISSAUGA FIRE STATION 123

| APPLICANT INFO | OWNER INFO |
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| DAVID PREMI, 24 MAIN ST. W., SUITE 1800, HAMILTON, ON L8P 1H1 (905)522-0220 | CITY OF MISSISSAUGA, ADRIANA TANTALO, 300 CITY CENTRE DRIVE (905)615-3200 EXT. 3395 |

Location:

3010 THE COLLEGEWAY

Title:

CROSS SECTIONS

| | | | | | |
|---|---|---|---|---|---|
| Designed By: | G.B. | Drawn By: | G.B. | Checked By: | F.M. |
| Scale: | 1:150 | Date: | MAY, 2023 | Drawing No.: | C-03 |
| Project No.: | 23394.01 | Site Plan Application No.: | SP 24-3 | | |

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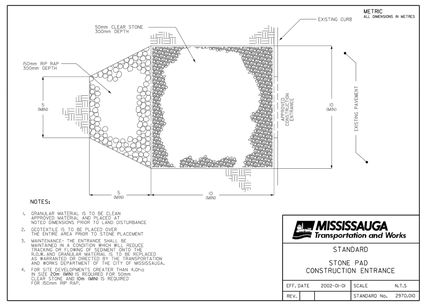

METRIC
ALL DIMENSIONS IN METRES
50mm CLEAR STONE
300mm DEPTH
150mm RIP RAP
300mm DEPTH
EXISTING CURB
EXISTING PAVEMENT
3.0
(MIN)
6.0
(MIN)
NOTES:
1. GRANULAR MATERIAL IS TO BE CLEAN CRUSHED STONE, SIZE NO. 1 OR 2 AS NOTED. DIMENSIONS PRIOR TO LAND DISTURBANCE
2. GEOTEXTILE IS TO BE PLACED OVER THE ENTIRE AREA PRIOR TO STONE PLACEMENT
3. MAINTENANCE: THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO THE R.O.W. ANY DRAINAGE MATERIAL IS TO BE REPLACED IMMEDIATELY. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHT-OF-WAY MUST BE REMOV

## GENERAL NOTES

1. ALL SITE LAYOUT INFORMATION, INCLUDING BUILDING DIMENSIONS, SETBACKS, CURBS, DEPRESSED CURB LOCATIONS, SIDEWALKS, PARKING AND LANDSCAPE FEATURES MUST BE REFERENCED FROM THE ARCHITECT'S PLANS.
2. PRIOR TO THE START OF CONSTRUCTION, THE CONTRACTOR MUST VERIFY ALL DIMENSIONS AND LAYOUT INFORMATION. ANY DISCREPANCIES MUST BE REPORTED TO THE CONSULTANT BEFORE RESUMING CONSTRUCTION OPERATIONS.
3. ALL SERVICES MUST BE INSTALLED TO THE CURRENT CITY OF MISSISSAUGA STANDARDS, REGION OF PEEL STANDARDS, ONTARIO PROVINCIAL STANDARD DRAWINGS (OPSD), ONTARIO PROVINCIAL STANDARD SPECIFICATION (OPSS), AND ONTARIO BUILDING CODE (OBC) UNLESS OTHERWISE SPECIFIED, TO THE SPECIFICATION OF THE CITY AND CONSULTANT.
4. THE REGION OF PEEL AND CITY OF MISSISSAUGA STANDARD DRAWINGS, MATERIAL SPECIFICATIONS AND CONSTRUCTION SPECIFICATIONS, ONTARIO PROVINCIAL STANDARD DRAWINGS (OPSD) AND ONTARIO PROVINCIAL STANDARD SPECIFICATION (OPSS) SHALL FORM PART OF THE CONTRACT DOCUMENTS.
5. THE POSITION OF EXISTING POLE LINES, CONDUITS, WATERMAINS, SEWERS AND OTHER UNDERGROUND AND ABOVEGROUND UTILITIES, STRUCTURES AND APPURTENANCES IS NOT NECESSARILY SHOWN ON THE DRAWING, AND WHERE SHOWN, THE ACCURACY OF THE POSITION OF SUCH UTILITIES AND STRUCTURES IS NOT GUARANTEED. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL SATISFY HIMSELF OF THE EXACT LOCATION OF ALL SUCH UTILITIES AND STRUCTURES, AND SHALL ASSUME ALL LIABILITY FOR DAMAGE TO THEM DURING THE COURSE OF CONSTRUCTION. THIS MAY REQUIRE EXCAVATION TO EXPOSE UTILITIES AS REQUIRED BY CONTRACTORS.
6. ALL TRENCHING TO BE IN ACCORDANCE WITH THE LATEST REVISIONS OF THE OCCUPATIONAL HEALTH AND SAFETY ACT AND REGULATIONS FOR CONSTRUCTION PROJECTS.
7. ALL TRENCHES SHALL BE BACKFILLED TO THE CITY'S OF STANDARDS AND IN ACCORDANCE WITH THE GEOTECHNICAL REPORT OR AS OTHERWISE NOTED ON THE DRAWINGS.
8. ALL DIMENSIONS ARE IN METRES(m) AND ALL DIAMETERS ARE IN MILLIMETERS (mm) UNLESS OTHERWISE NOTED.
9. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL TRAFFIC CONTROL AND SAFETY MEASURES DURING THE CONSTRUCTION PERIOD, INCLUDING THE SUPPLY, INSTALLATION AND REMOVAL OF ALL NECESSARY SIGNAGE, DELINEATORS, MARKERS AND BARRIERS. ALL SIGNS, ETC. SHALL CONFORM TO THE STANDARDS AND SPECIFICATIONS FOR THE CITY AND ONTARIO TRAFFIC MANUAL FOR TEMPORARY CONDITIONS AND MTO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES.
10. THE CONTRACTOR SHALL RECTIFY ALL DISTURBED AREAS TO THE ORIGINAL CONDITION OR BETTER AND TO THE SATISFACTION OF THE CITY.
11. EXISTING STRUCTURES ARE NOT TO BE DISTURBED, NOR ENCROACHMENT ON ADJACENT PROPERTIES UNLESS INSTRUCTED BY THE ENGINEER.
12. DEWATERING, IF REQUIRED, SHALL BE THE RESPONSIBILITY AND SOLE EXPENSE OF THE CONTRACTOR. REFER TO THE GEOTECHNICAL REPORT FOR EXISTING SITE CONDITIONS.
13. CONTRACTOR TO EXPOSE AND VERIFY LOCATION, ELEVATION, AND SIZE OF ALL SERVICE CONNECTIONS PRIOR TO CONSTRUCTION. THE OWNER SHALL BE NOTIFIED IMMEDIATELY OF ANY CONFLICTS WITH EXISTING SERVICES
14. CONTRACTOR SHALL RED-LINE ALL AS CONSTRUCTED INFORMATION ON A SET OF DRAWINGS AND PROVIDE TO THE OWNER AT THE END OF CONSTRUCTION, SEALED BY AN OLS OR P.ENG.
15. CONTRACTOR SHALL SUPPORT AND PROTECT ALL EXISTING UTILITIES DURING CONSTRUCTION AS PER OPSD AND CITY OF MISSISSAUGA STANDARDS AND SPECIFICATIONS.
16. THE APPROVAL OF THIS PLAN DOES NOT EXEMPT THE OWNERS CONTRACTOR FROM OBTAINING AND PAYING FOR, BUT NOT LIMITED TO THE FOLLOWING PERMITS, ROAD CUTS, SEWER PERMITS, RELOCATION OF SERVICES, ENCROACHMENT AGREEMENTS, APPROACH APPROVAL PERMITS, ETC. ALL RESTORATION AS PER CITY STANDARDS.
17. THE CONTRACTOR SHALL ENDEAVOR TO PREVENT MUD TRACKING ONTO EXISTING RIGHT-OF-WAYS AND SHALL PROVIDE FOR CLEANUP AT HIS OWN EXPENSE AS DIRECTED BY THE CITY. THE CONTRACTOR SHALL ALSO BE RESPONSIBLE TO CONTROL DUST ON THE PROJECT AND HE SHALL PROVIDE AT HIS OWN EXPENSE, CONTROLLING MEASURES AS DIRECTED BY THE CITY.
18. FOR ELECTRICAL, ARCHITECTURAL AND MECHANICAL DETAILS BY OTHERS, SEE RESPECTIVE DRAWINGS. WORKS SHOWN ON THESE DRAWINGS ARE TO BE READ IN CONJUNCTION WITH ALL OTHER PLANS.
19. ALL EXISTING SERVICES ARE TO REMAIN IN SERVICE AT ALL TIMES DURING CONSTRUCTION.
20. ITEMS DESIGNATED TO BE REMOVED SHALL BE DISPOSED OFF-SITE.
21. CONSTRUCTION LAYOUT SHALL BE UNDERTAKEN BY CONTRACTOR'S SURVEYOR AT THE CONTRACTOR'S EXPENSE.
22. CONTRACTOR SHALL REVIEW THE GEOTECHNICAL REPORT FOR THE SITE TO CONFIRM EXISTING SOIL CONDITIONS AND TO CONFIRM RECOMMENDED GEOTECHNICAL PROCEDURES FOR THE ADDITION.

## CONSTRUCTION & RESTORATION WORKS FOR MUNICIPAL R.O.W.S. - THE COLLEGEWAY

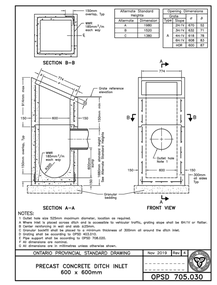
1. PROPOSED STORM AND WATER SERVICE CONNECTIONS WITHIN EXISTING MUNICIPAL R.O.W.S ARE TO BE BACKFILLED WITH UNSHRINKABLE FILL UP TO BASE OF EXISTING ROAD GRANULAR. AND ASPHALT TO BE MATCHED WITH MINIMUM THICKNESS IN ACCORDANCE WITH CITY STANDARD 2220.03.
2. TRENCH CONSTRUCTION / RESTORATION SHALL BE IN ACCORDANCE WITH CITY STANDARDS 2220.03, 2220.031, AND 2220.032.
3. BOULEVARD AREAS SHALL BE RESTORED TO EXISTING CONDITIONS OR BETTER.

## SANITARY, STORM AND WATERMAIN NOTES

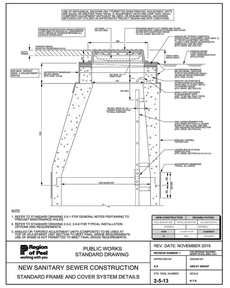
1. FULL LENGTH PERFORATED SUB-DRAIN PIPES OF 150mm DIA. TO BE INSTALLED AROUND THE PERIMETER OF PARKING LOT.
2. ALL UTILITY COMPANIES WILL BE NOTIFIED BY CONTRACTOR FOR LOCATES PRIOR TO THE INSTALLATION OF PROPOSED SERVICE CONNECTIONS.
3. ALL PIPE MATERIALS SHALL BE IN ACCORDANCE WITH THE CURRENT MANUFACTURERS APPROVED PRODUCT LIST, SANITARY SEWER AND APPURTENANCES.
4. ALL SANITARY MAINTENANCE HOLES SHALL CONFORM TO THE CURRENT MANUFACTURER'S APPROVED PRODUCT LIST, SANITARY SEWER AND APPURTENANCES, REGIONAL STANDARD DRAWING 2-1-1 WHICH MUST BE MODIFIED IN THE FIELD TO PREVENT INFLOW AND INFILTRATION.
5. SANITARY SERVICE CONNECTION MATERIAL MUST BE PVC SDR28.
6. STORM SERVICE CONNECTION MATERIAL MUST BE PVC DR35.
7. ALL MAINTENANCE HOLE ARE TO BE SUPPLIED OR CONSTRUCTED IN ACCORDANCE WITH OPSD 701 SERIES.
8. CATCH BASINS SHALL BE PRECAST AS PER OPSD 705 SERIES.
9. SANITARY SEWERS SHALL BE INSTALLED WITH BEDDING AS PER REGIONAL STANDARD DRAWING 2-3-1.
10. BEDDING FOR PVC STORM SEWER PIPE SHALL BE IN ACCORDANCE WITH CITY OF MISSISSAUGA STANDARD DRAWING NO. 2112.080.
11. SEWER BEDDING SHALL CONFORM WITH OPSS 1010 FOR GRANULAR "A" OR CITY STANDARD DRAWING NO. 2112.100 OR 2112.140.
12. ALL GRANULAR BEDDING AND BACKFILL MATERIAL SHALL CONFORM TO THE REQUIREMENTS OF OPSS 1010 AND MUST NOT CONTAIN RCM/RAP.
13. ALL VALVE 300MM DIAMETER AND SMALLER SHALL BE EQUIPPED WITH VALVE BOXES AND RESTRAINED AND VALVE FITTING WRAPPED IN CORROSION PROTECTION TAPE.
14. ALL APPROVED NATIVE MATERIAL SHALL BE FREE OF FROZEN LUMPS, CINDERS, ASHES, ASPHALT REFUSE, ORGANIC MATTER, ROCKS AND BOULDERS OR OTHER DELETERIOUS MATERIALS.
15. ALL WATERMAIN FITTINGS SHALL BE MECHANICALLY RESTRAINED. DETAILS OF RESTRAINTS SHALL BE DESIGNED, STAMPED AND SIGNED BY A PROFESSIONAL ENGINEER AS PART OF SHOP DRAWINGS BY THE CONTRACTOR.
16. THE CONTRACTOR SHALL RETAIN THE SERVICES OF A MOECC LICENSED CONTRACTOR SPECIALIZING IN THE PROVISION OF DISINFECTION SERVICES FOR ALL WATERMAIN TESTING REQUIRED IN THIS CONTRACT.
17. TRACER WIRE IS TO BE INSTALLED ON ALL NEW PVC WATERMAIN PIPES.
18. THE TOP OF VALVE BOX AND CHAMBER COVERS SHALL BE SET FLUSH WITH FINISHED GRADE AND REMAIN ACCESSIBLE AT ALL TIMES.
19. WATER SERVICES, A 12-GAUGE TWU STANDARD COPPER, LIGHT COLORED, PLASTIC COATED TRACER WIRE MUST BE INSTALLED WITH AND ALONG THE PIPE AND BROUGHT TO THE SURFACE AT EACH SERVICE BOX. TRACER WIRE IS TO BE ATTACHED TO THE PIPE AND OUTSIDE OF EACH SERVICE BOX BY MEANS OF TAPE OR RUBBER GROMMET.
20. CHAMBER AS PER REGION STANDARD DRAWING NUMBER 1-1-5.
21. PROPOSED WATER CONNECTION AS PER REGION STANDARD NUMBER 1-6-4 AND 1-8-3
22. FOR DETAILS OF THE PROPOSED TRENCH DRAIN, ROOF DRAIN, SERVICE CONNECTIONS, WATER METER AND BACKFLOW PREVENTER REFER TO MECHANICAL DRAWING.
23. CONTRACTOR TO PROVIDE SITE GRADING AND SITE SERVCIING "AS-BUILT" AND "RECORD DRAWINGS" AND "SEWERS CCTV SURVEY" FOR THE PROJECT CLOSEOUT SUBMITTALS, AT NO EXTRA COST TO THE OWNER.
24. "SEWERS CCTV SURVEY" FOR THE PROJECT CLOSEOUT SUBMITTAL SHALL BE IN ACCORDANCE WITH OPSS 409 "CLOSED CIRCUIT TELEVISION (CCTV) INSPECTION OF PIPELINES".
25. STORM TANK MODEL AS PER LAYFIELD'S BRANTWOOD MODULE. FOR ADDITIONAL INFORMATION, PLEASE CONTACT JON FEENSTRA AT JON.FEENSTRA@LAYFIELDGROUP.COM OR (780) 451-7232. CONTRACTOR MUST PREPARE SHOP DRAWINGS PRIOR TO CONSTRUCTION FOR REVIEW BY ENGINEER.
26. OIL GRIT SEPARATOR MODEL AS PER STORMCEPTOR EFO4. FOR ADDITIONAL INFORMATION, PLEASE CONTACT JESSICA STEFFLER AT JESSICA.STEFFLER@RINKERPIPE.COM. CONTRACTOR MUST PREPARE SHOP DRAWINGS PRIOR TO CONSTRUCTION FOR REVIEW BY ENGINEER.

## REGION OF PEEL STANDARD NOTES

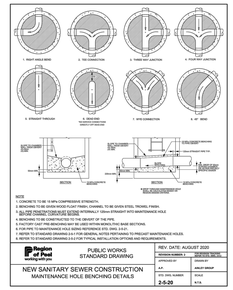
1. PUBLIC AND PRIVATE SERVICES, APPURTENANCES, MATERIALS AND CONSTRUCTION METHODS MUST COMPLY WITH THE MOST CURRENT REGION OF PEEL STANDARDS AND SPECIFICATIONS, THE LOCAL MUNICIPALITY'S REQUIREMENTS FOR THE ONTARIO BUILDING CODE AND ONTARIO PROVINCIAL STANDARDS. ALL WORKS SHALL ADHERE TO ALL APPLICABLE LEGISLATION, INCLUDING REGIONAL BY-LAWS.
2. WATERMAIN AND / OR WATER SERVICE MATERIALS 100 mm (4") AND LARGER MUST BE PVC DR18 CONSTRUCTED AS PER AWWA C900-16. SIZE 50 mm (2") AND SMALLER MUST BE TYPE K SOFT COPPER CONSTRUCTED AS PER ASTM B88-49 OR POLYETHYLENE CONSTRUCTED AS PER AWWA C901 AND CSA B.137.10 (CHOOSE ONLY ONE MATERIAL).
3. WATERMAINS AND / OR WATER SERVICES ARE TO HAVE A MINIMUM COVER OF 1.7 m (5'6") WITH A MINIMUM HORIZONTAL SPACING OF 1.2 M (4') FROM THEMSELVES AND ALL OTHER UTILITIES.
4. PROVISIONS FOR FLUSHING WATER LINE PRIOR TO TESTING, ETC. MUST BE PROVIDED WITH AT LEAST A 50 mm (2") OUTLET ON 100 mm (4") AND LARGER LINES. COPPER LINES ARE TO HAVE FLUSHING POINTS AT THE END, THE SAME SIZE AS THE LINE. THEY MUST ALSO BE HOSED OR PIPED TO ALLOW THE WATER TO DRAIN ONTO A PARKING LOT OR DOWN A DRAIN. ON FIRE LINES, FLUSHING OUTLET TO BE 100 MM (4") DIAMETER MINIMUM ON A HYDRANT.
5. ALL CURB STOPS TO BE 3.0 m (10') OFF THE FACE OF THE BUILDING UNLESS OTHERWISE NOTED.
6. HYDRANT AND VALVE SET TO REGION STANDARD 1 - 6 - 1 DIMENSION A AND B, 0.7 m (2') AND 0.9 m (3') AND TO HAVE PUMPER NOZZLE.
7. WATERMAINS TO BE INSTALLED TO GRADES AS SHOWN ON APPROVED SITE PLAN. COPY OF GRADE SHEET MUST BE SUPPLIED TO INSPECTOR PRIOR TO COMMENCEMENT OF WORK, WHERE REQUESTED BY INSPECTOR.
8. WATERMAINS MUST HAVE A MINIMUM VERTICAL CLEARANCE OF 0.3 m (12") OVER / 0.5 m (20") UNDER SEWERS AND ALL OTHER UTILITIES WHEN CROSSING.
9. ALL PROPOSED WATER PIPING MUST BE ISOLATED FROM EXISTING LINES IN ORDER TO ALLOW INDEPENDENT PRESSURE TESTING AND CHLORINATING FROM EXISTING SYSTEMS.
10. ALL LIVE TAPPING AND OPERATION OF REGION WATER VALVES SHALL BE ARRANGED THROUGH THE REGIONAL INSPECTOR ASSIGNED OR BY CONTACTING THE OPERATIONS AND MAINTENANCE DIVISION.
11. LOCATION OF ALL EXISTING UTILITIES IN THE FIELD TO BE ESTABLISHED BY THE CONTRACTOR.
12. THE CONTRACTOR(S) SHALL BE SOLELY RESPONSIBLE FOR LOCATES, EXPOSING, SUPPORTING AND PROTECTING OF ALL UNDERGROUND AND OVERHEAD UTILITIES AND STRUCTURES EXISTING AT THE TIME OF CONSTRUCTION IN THE AREA OF THEIR WORK. WHETHER SHOWN ON THE PLANS OR NOT AND FOR ALL REPAIRS AND CONSEQUENCES RESULTING FROM DAMAGE TO SAME.
13. THE CONTRACTOR(S) SHALL BE SOLELY RESPONSIBLE TO GIVE 72 HOURS WRITTEN NOTICE TO THE UTILITIES PRIOR TO CROSSING SUCH UTILITIES, FOR THE PURPOSE OF INSPECTION BY THE CONCERNED UTILITY. THIS INSPECTION WILL BE FOR THE DURATION OF THE CONSTRUCTION, WITH THE CONTRACTOR RESPONSIBLE FOR ALL COSTS ARISING FROM SUCH INSPECTION.
14. ALL PROPOSED WATER PIPING MUST BE ISOLATED THROUGH A TEMPORARY CONNECTION THAT SHALL INCLUDE AN APPROPRIATE CROSS-CONNECTION CONTROL DEVICE, CONSISTENT WITH THE DEGREE OF HAZARD, FOR BACKFLOW PREVENTION OF THE ACTIVE DISTRIBUTIOSYSTEM,CONFORMING TO REGION OF PEEL STANDARDS 1-7-7 OR 1-7-8.
15. ALL WATER METERS MUST BE INSTALLED IN HEATED AND ACCESSIBLE SPACE.



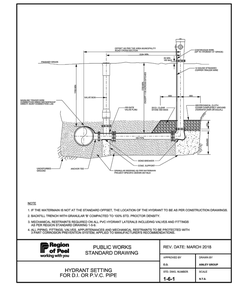
PRECAST CONCRETE DITCH INLET 600 x 600mm — OPSD 705.030



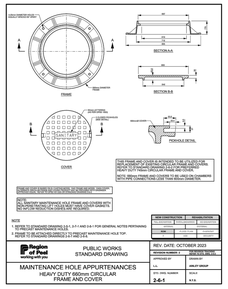
NEW SANITARY SEWER CONSTRUCTION STANDARD FRAME AND COVER SYSTEM DETAILS — 2-5-1



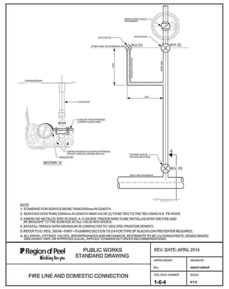
NEW SANITARY SEWER CONSTRUCTION MAINTENANCE HOLE BENCHING DETAILS — 2-6-28



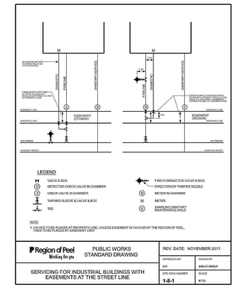
HYDRANT SETTING FOR D.I. OR P.V.C. PIPE — 1-6-1



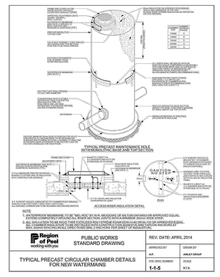
NEW SANITARY SEWER CONSTRUCTION MAINTENANCE HOLE DROP STRUCTURE EXTERNAL ASSEMBLY — 2-5-26



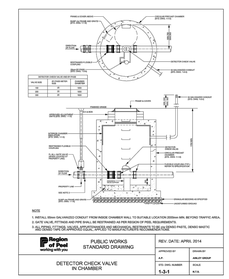
FIRE HYDRANT AND DOMESTIC CONNECTION — 1-8-4



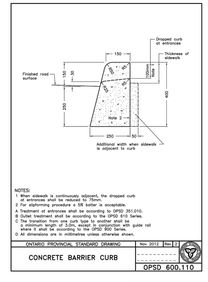
SERVICING FOR INDUSTRIAL BUILDINGS WITH EASEMENTS AT THE STREET LINE — 1-8-1



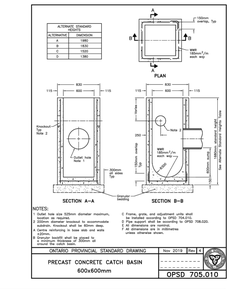
TYPICAL PRECAST CIRCULAR CHAMBER DETAILS FOR NEW WATERMAINS — 1-1-5



DETECTOR CHECK VALVE IN CHAMBER — 1-3-1



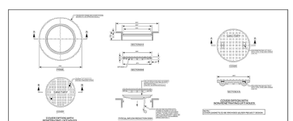
CONCRETE BARRIER CURB — OPSD 600.110



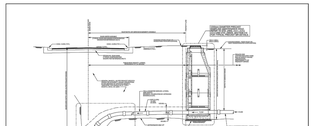
PRECAST CONCRETE CATCH BASIN 600x600mm — OPSD 705.010



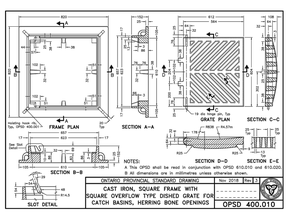
PRECAST CONCRETE ADJUSTMENT UNITS FOR MAINTENANCE HOLES, CATCH BASINS, AND VALVE CHAMBERS — OPSD 704.010



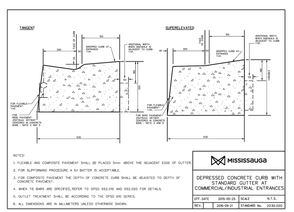
NEW SANITARY SEWER CONSTRUCTION MAINTENANCE HOLE BENCHING DETAILS — 2-6-28



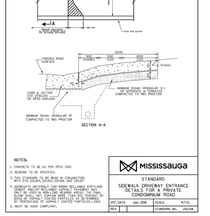
SERVICE CONNECTIONS FOR INDUSTRIAL, COMMERCIAL, INSTITUTIONAL OR MULTI-RESIDENTIAL UNITS — 2-8-3



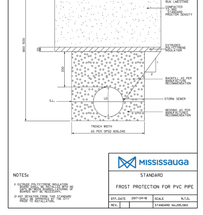
NEW SANITARY SEWER CONSTRUCTION MAINTENANCE HOLE DROP STRUCTURE EXTERNAL ASSEMBLY — 2-5-26



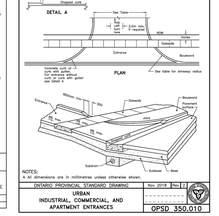
DEPRESSED CONCRETE CURB WITH STANDARD GUTTER AT COMMERCIAL/INDUSTRIAL ENTRANCES — 2016-09-01



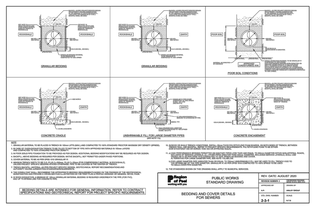
SIDEWALK DRIVEWAY ENTRANCE DETAILS FOR A PRIVATE DRIVEWAY CROSSING — 2016-09-01



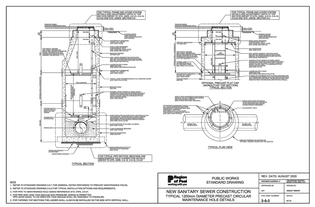
FROST PROTECTION FOR PVC PIPE — STANDARD



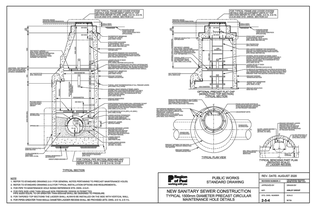
URBAN INDUSTRIAL, COMMERCIAL, AND APARTMENT ENTRANCES — OPSD 350.010

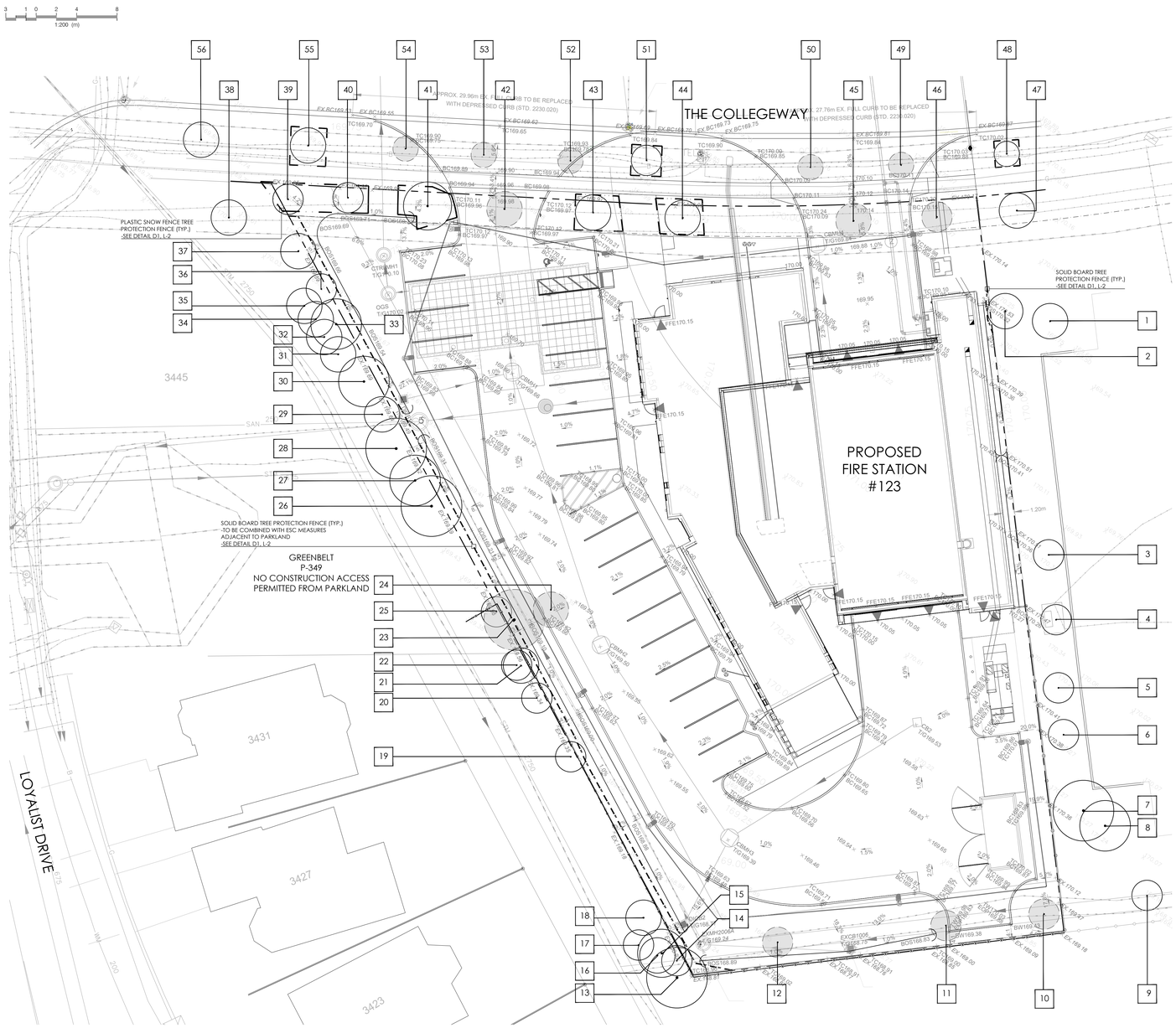


BEDDING AND COVER DETAILS FOR SEWERS — 2-3-1



NEW SANITARY SEWER CONSTRUCTION TYPICAL 1200mm DIAMETER PRECAST CIRCULAR MAINTENANCE HOLE DETAILS — 2-6-3


TYPICAL SECTION
TYPICAL PLAN VIEW
NOTE
1. REFER TO STANDARD DRAWING 2-6-1 FOR GENERAL NOTES P




TREE PROTECTION NOTE:

The applicant is responsible for ensuring that tree protection hoarding is maintained throughout all phases of demolition and construction in the location and condition as approved by the Planning and Building Department. No materials (building materials, soil, etc.) may be stockpiled within the area of hoarding. Failure to maintain the hoarding as originally approved or the storage of materials within the hoarding will be cause for the Letter of Credit to be held for two years following completion of all site works. Hoarding must be inspected prior to the removal of any tree hoarding from the site.

Owner's Signature: _____

Date: _____

PROJECTS ADJACENT TO PARKLAND NOTE:

The Applicant is responsible for the installation of hoarding to protect the adjacent parkland (includes parks, greenbelts, woodlots) to Community Services' standards.

The Applicant accepts responsibility for arranging all necessary permits to enter and perform the required works on parkland, as approved through the development application. The Applicant will provide a minimum of one (1) week written notice to the Manager of Park Planning, and the Manager of Parks Operations, City of Mississauga, prior to initiating any construction activities within the adjoining parkland, which had been approved through the development application.

The Applicant accepts the responsibility for arranging all necessary repairs to and the reinstatement of, the adjoining parkland, due to damages incurred by the construction works associated with this application.

These works will be completed prior to submitting the Request for Inspection and the subsequent request for the release of securities from the Community Services Department.

The Applicant acknowledges that securities being held by the City will be released only upon completion of all construction activities and the repair/reinstatement works for the parkland, to the satisfaction of the Community Services Department.

Signature of Owner: _____

Name of Owner: _____

Address: _____

Date: _____

Trees 1 & 2

Tree 4

Trees 7 & 8

Tree 10

Trees 20-25

Trees 26-28

Trees 29-33

Trees 32-36

Tree 38

Trees 39 & 40

Trees 51-56

Trees 41-44

Trees 45-47

Trees 48-50

Trees 53-56

adesso design inc.
landscape architecture

69 John Street South, Suite 250
Hamilton, ON L8N 2B9
t. 905.526.8876
www.adessodesigninc.ca

DRAWINGS ARE NOT TO BE SCALED.

CONTRACTOR MUST VERIFY ALL DIMENSIONS ON THE JOB AND REPORT ANY DISCREPANCY TO ARCHITECTS BEFORE PROCEEDING WITH WORK.

ALL DRAWINGS AND SPECIFICATIONS ARE THE PROPERTY OF THE ARCHITECT AND MUST BE RETURNED AT THE COMPLETION OF THE WORK.

SEALS

LEGEND

- property line
- 2 — existing tree number (refer to chart)
- existing vegetation to remain
- existing vegetation to be removed
- existing elevations
- solid board tree protection fence (with silt fence) - see detail D1, L-2
- plastic snow fence tree protection fence (with silt fence) - see detail D1, L-2

NOTE:
Vegetation inventory undertaken by Jeremy Jackson, ISA Certified Arborist (ON-1089A) on 2023-04-19.

KEY MAP - N.T.S.

City of Mississauga
Fire Station #123
3050 The Collegeway
Mississauga

| NO. | ISSUES/REVISIONS | DATE |
|---|---|---|
| 9 | Issued for submission | 2024-04-30 |
| 8 | Issued for tender | 2024-03-07 |
| 7 | Issued for permit submission | 2024-02-27 |
| 6 | Issued for submission | 2024-02-27 |
| 5 | Issued for submission | 2023-11-23 |
| 4 | Issued for submission | 2023-08-31 |
| 3 | Issued for client review | 2023-07-17 |
| 2 | Issued for client review | 2023-06-28 |
| 1 | Issued for client review | 2023-06-07 |

DRAWING TITLE:

Tree Protection Plan

ISSUE DATE:

DRAWN BY: CP | CHECKED BY: SH

PROJECT NO.: 22-293 | SCALE: 1:200

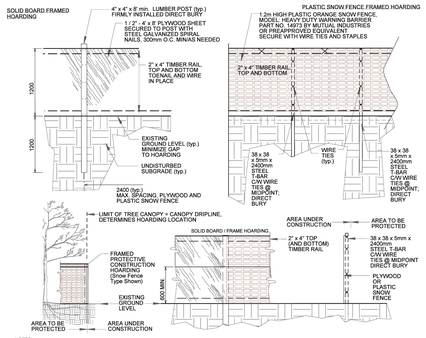
DRAWING NO.: L100 | REVISION:

[ PLOT DATE: ]

# 02830-6

## Hoarding
## Framed Protective Construction Hoarding
## Solid Board- Plastic Snow Fence

NOTE:
TO BE USED AS A GUIDELINE ONLY.
NOT TO SCALE. REMOVE CITY TITLE BLOCK AND REDRAW TO REPRESENT SITE SPECIFIC CONDITIONS. ALL SITE SPECIFIC CONDITIONS ARE TO BE CONFIRMED BY THE PROJECT CONSULTANT.




NOTES:
1. HOARDING LOCATION AS PER DRAWINGS HOARDING INSTALLATIONS ARE TO INCLUDE WOVEN GEOTEXTILE FABRIC FOR SEDIMENT CONTROL.
2. NO MOBILIZATION OR CONSTRUCTION WORK TO OCCUR UNTIL HOARDING HAS BEEN INSPECTED AND APPROVED BY COMMUNITY SERVICES PROJECT MANAGER (CSPM). CONTRACTOR TO ARRANGE FOR A HOARDING INSPECTION WITH CSPM), 48 HOUR NOTICE REQUIRED.
3. HOARDING TO BE SUPPLIED, INSTALLED AND MAINTAINED BY THE CONTRACTOR THROUGH ALL PHASES OF WORK ON SITE.
4. THE CONTRACTOR IS TO REMOVE AND DISPOSE THE HOARDING OFF SITE WHEN DIRECTED BY THE CSPM.
5. ALL WOOD PRODUCTS TO BE NEW AND LUMBER AND SECURELY INSTALLED. WIRE TIES MIN 3.5mm DIA. GALVANIZED STEEL.
6. ALL FASTENERS TO BE NEW AND SECURELY INSTALLED.
7. DO NOT ALLOW WATER TO COLLECT AND/OR POND ON EITHER SIDE OF THE HOARDING.
8. WHEN INSTALLING DIRECT BURY TIMBER POSTS AND T-BARS, TAKE CARE TO AVOID VISIBLE AND ASCERTAINABLE TREE ROOTS.
9. PLACE HOARDING AT LIMIT OF TREE CANOPY DRIP LINE OR BEYOND (E.G. FURTHER AWAY FROM TRUNK) OF TREE.
10. HOARDED OFF AREA TO REMAIN UNDISTURBED. NO STOCKPILING, STAGING OR MOVEMENT OF VEHICLES TO OCCUR WITHIN PROTECTED AREA.
11. FOR PROTECTION OF TREES AND ROOT SYSTEM, CONTRACTOR MAY BE REQUIRED TO PROVIDE WATERING, MULCHING, FERTILIZING, PRUNING OR OTHER ACTIVITIES TO ENSURE THE HEALTH OF THE TREE(S)
12. ALL MEASUREMENTS IN MILLIMETRES UNLESS NOTED OTHERWISE (E.G. DIMENSIONAL LUMBER).
13. CONTRACTOR RESPONSIBLE FOR LOCATES

N.T.S.

Detail: 02830-6

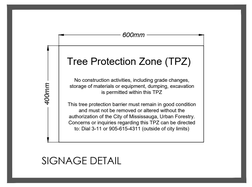
ORIGINAL DATE: Mar 08/18
REVISION DATE: Mar 08/18

MISSISSAUGA

Tree Preservation Hoarding (as per City of Mississauga detail)

SCALE: NTS

I
L-2




SIGNAGE DETAIL

NOTE
TREE PRESERVATION SIGN AS PER CITY OF MISSISSAUGA TEMPLATE.
REFER TO TREE PRESERVATION & PROTECTION STANDARDS BY THE URBAN TREE MANAGEMENT GROUP (2017-05-15)

## NOTES:

1. The area within the dripline of all existing trees shall be properly protected with temporary fencing.
2. The area within the protective fencing shall remain undisturbed with no construction activity, grade changes, surface treatment, compaction, or excavation. Area shall not be used for the storage of building materials or equipment access/storage or project related garbage.
3. Tree protection measures shall be installed prior to any demolition, tree removal or construction and shall remain until the completion of fine grading and sodding or seeding.
4. Prune all trees for dead, diseased, weak or hazardous branches only, also trim back branches which will interfere with construction, prune for structural restoration where necessary.
5. No stockpiles and/or excavated material shall be placed within the tree preservation area.
6. No rigging cable shall be wrapped around or installed to trees.
7. Where root systems of protected trees are exposed directly adjacent to or damaged by construction work they are to be root pruned and the area back filled with topsoil to prevent root desiccation.
8. Any fine grading within the preservation area is to be done by hand, no heavy equipment is permitted within the preservation zone.
9. Sediment accumulations to be removed by subdivider/builder when sediment deposits reach within 150mm of top of filter fabric barrier.
10. A copy of the approved and signed Vegetation Management Plan will be on site for the duration of construction and available upon request.
11. This detail does not represent any particular tree species.

## MIGRATORY BIRDS AND NESTS:

1. The Owner and Contractor must be aware of the Migratory Birds Convention Act, 1994 - specifically:
   - No tree removal or construction activity shall contravene the Act.
   - Construction activities with the potential to harm migratory birds or their nest should be restricted from March 15 to August 31.
   - If work must occur during the migratory bird breeding season, a nest survey should be taken by a qualified avian biologist.
   - A mitigation plan (showing active nests and appropriate buffers) may be required for review and approval by the Canadian Wildlife Services.

## TREE REMOVAL:

1. No trees shall be removed prior to municipal approvals of the Tree Management/Tree Preservation Plan.

## BOUNDARY TREES:

2. Note that boundary trees are protected under the Ontario Forestry Act. Boundary trees are defined in the Forestry Act (Section 10.2) and are considered shared or co-owned property. The Forestry Act indicates that it is a prosecutable offense for one co-owner to injure or cut down a boundary tree without the other co-owner's permission.
3. Written permission from the neighbouring property owner is required prior to removal or injury of any boundary tree(shared ownership) or any tree that is not fully on the subject property.
4. An ISA certified Arborist should be on site prior to any work being performed within the rootzone of a boundary or neighbouring tree to perform root pruning as required.

## TREE PROTECTION NOTE:

The applicant is responsible for ensuring that tree protection hoarding is maintained throughout all phases of demolition and construction in the location and condition as approved by the Planning and Building Department. No materials (building materials, soil, etc.) may be stockpiled within the area of hoarding. Failure to maintain the hoarding as originally approved or the storage of materials within the hoarding will be cause for the Letter of Credit to be held for two years following completion of all site works. Hoarding must be inspected prior to the removal of any tree hoarding from the site.

Owner's Signature: _____

Date: _____

## PROJECTS ADJACENT TO PARKLAND NOTE:

The Applicant is responsible for the installation of hoarding to protect the adjacent parkland (includes parks, greenbelts, woodlots) to Community Services' standards.

The Applicant accepts responsibility for arranging all necessary permits to enter and perform the required works on parkland, as approved through the development application. The Applicant will provide a minimum of one (1) week written notice to the Manager of Park Planning, and the Manager of Parks Operations, City of Mississauga, prior to initiating any construction activities within the adjoining parkland, which had been approved through the development application.

The Applicant accepts the responsibility for arranging all necessary repairs to and the reinstatement of, the adjoining parkland, due to damages incurred by the construction works associated with this application.

These works will be completed prior to submitting the Request for Inspection and the subsequent request for the release of securities from the Community Services Department.

The Applicant acknowledges that securities being held by the City will be released only upon completion of all construction activities and the repairs/reinstatement works for the parkland, to the satisfaction of the Community Services Department.

Signature of Owner: _____

Name of Owner: _____

Address: _____

Date: _____

## EXISTING VEGETATION IDENTIFICATION TABLE

| Tree # | Common Name | Scientific Name | DBH | DL | TI | CS | CV | mTPZ | CC | Comments | Potential Impacts from Construction | Ownership | Recommendation |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Blue Spruce | *Picea pungens* | 24 | 3 | G | G | G | 1.8 | CD | | | Private - Neighbouring | SAVE |
| 2 | Blue Spruce | *Picea pungens* | 29 | 3 | F | P | P | 1.8 | CD | 50% crown dieback | | Private - Neighbouring | SAVE |
| 3 | Manitoba Maple | *Acer negundo* | 15, 13, 13, 11 | 4 | F | F | G | 1.5 | D | Unions at 0.3 m and 1 m | | Private - Neighbouring | SAVE |
| 4 | European Larch | *Larix decidua* | 12 | 2 | F | G | G | 1.5 | CD | Stem wounds at flare | | Private - Neighbouring | SAVE |
| 5 | Manitoba Maple | *Acer negundo* | 10, 9, 8, 7 | 3 | F | FG | G | 1.5 | CD | Unions at ground and 0.8 m, epicormic branching | | Private - Neighbouring | SAVE |
| 6 | Green Ash | *Fraxinus pennsylvanica* | 11, 8 | 3 | P | P | P | 1.5 | CD | Ash flower gall, peeling bark, epicormic branching, EAB infestation | | Private - Neighbouring | SAVE |
| 7 | Austrian Pine | *Pinus nigra* | 41, 11 | 4 | FG | G | G | 3.0 | CD | Union at ground and 2 m | | Private - Neighbouring | SAVE |
| 8 | Austrian Pine | *Pinus nigra* | 34 | 4 | G | G | G | 2.4 | CD | | | Private - Neighbouring | SAVE |
| 9 | Green Ash | *Fraxinus pennsylvanica* | 16 | 2 | P | P | P | 1.5 | D | Epicormic branching, peeling bark, 70% crown dieback, EAB infestation | | Private - Neighbouring | SAVE |
| 10 | Green Ash | *Fraxinus pennsylvanica* | 19 | 2 | P | P | P | 1.5 | D | 50% crown dieback, peeling bark, epicormic branching, EAB infestation | | Private - Subject Site | REMOVE |
| 11 | Green Ash | *Fraxinus pennsylvanica* | 20 | 2 | P | P | P | 1.5 | D | 50% crown dieback, peeling bark, epicormic branching, EAB infestation | | Private - Subject Site | REMOVE |
| 12 | Green Ash | *Fraxinus pennsylvanica* | 19 | 2 | P | P | P | 1.5 | D | 50% crown dieback, peeling bark, epicormic branching, EAB infestation | | Private - Subject Site | REMOVE |
| 13 | Black Locust | *Robinia pseudoacacia* | ~35, 45 | 6 | F | FG | G | 3.0 | CD | Union at ground, 1 stem leaning south | | Neighbouring - Parkland | SAVE |
| 14 | Silver Maple | *Acer saccharinum* | ~11 | 5 | G | F | G | 1.5 | S | Bowed east | | Neighbouring - Parkland | SAVE |
| 15 | Silver Maple | *Acer saccharinum* | ~31 | 6 | FG | FG | G | 2.4 | CD | Bowed east | | Neighbouring - Parkland | SAVE |
| 16 | Silver Maple | *Acer saccharinum* | ~21 | 6 | FG | FG | G | 1.8 | CD | Bowed east | | Neighbouring - Parkland | SAVE |
| 17 | Silver Maple | *Acer saccharinum* | ~16, 18 | 4 | FG | G | G | 1.5 | S | Union at ground | | Neighbouring - Parkland | SAVE |
| 18 | Silver Maple | *Acer saccharinum* | ~24 | 6 | F | FG | G | 1.8 | CD | Bowed east | | Neighbouring - Parkland | SAVE |
| 19 | Cherry species | *Prunus s.* | ~18 | 2 | G | G | G | 1.5 | D | | | Neighbouring - Parkland | SAVE |
| 20 | Norway Maple | *Acer platanoides* | ~15, 14 | 3 | FG | G | G | 1.5 | I | Union at ground | | Neighbouring - Parkland | SAVE |
| 21 | Norway Maple | *Acer platanoides* | ~21 | 3 | G | G | G | 1.8 | S | | | Neighbouring - Parkland | SAVE |
| 22 | Eastern Cottonwood | *Populus deltoides* | ~12 | 3 | FG | P | P | 1.5 | S | Most of crown failed/missing, lean south | | Neighbouring - Parkland | SAVE |
| 23 | Eastern Cottonwood | *Populus deltoides* | 49 | 6 | PF | PF | PF | 3.0 | CD | Heavy stem wounds at flare | mTPZ encroachment due to proposed grading; tree unlikely to survive impacts due to condition | Private - Subject Site | REMOVE |
| 24 | Eastern Cottonwood | *Populus deltoides* | 30 | 6 | FG | FG | G | 1.8 | CD | Union at base of crown | mTPZ encroachment due to proposed drive aisle | Private - Subject Site | REMOVE |
| 25 | Eastern Cottonwood | *Populus deltoides* | 17 | 7 | F | FG | G | 1.5 | I | Lean north, included wire fence | | Neighbouring - Parkland | SAVE |
| 26 | Austrian Pine | *Pinus nigra* | 43 | 5 | G | G | G | 3.0 | CD | | | Neighbouring - Parkland | SAVE |
| 27 | Austrian Pine | *Pinus nigra* | 38 | 5 | G | G | G | 2.4 | CD | Crook | | Neighbouring - Parkland | SAVE |
| 28 | Austrian Pine | *Pinus nigra* | 47 | 5 | F | F | G | 3.0 | CD | Union at 2 m | | Neighbouring - Parkland | SAVE |
| 29 | Austrian Pine | *Pinus nigra* | 29 | 5 | G | G | G | 1.8 | CD | Union at 2 m | | Neighbouring - Parkland | SAVE |
| 30 | Austrian Pine | *Pinus nigra* | 32 | 5 | G | G | G | 2.4 | CD | | | Neighbouring - Parkland | SAVE |
| 31 | Austrian Pine | *Pinus nigra* | 29 | 4 | G | G | G | 1.8 | CD | | | Neighbouring - Parkland | SAVE |
| 32 | Austrian Pine | *Pinus nigra* | 29 | 5 | G | G | G | 1.8 | CD | | | Neighbouring - Parkland | SAVE |
| 33 | Austrian Pine | *Pinus nigra* | 33 | 5 | G | G | G | 2.4 | CD | | | Neighbouring - Parkland | SAVE |
| 34 | Blue Spruce | *Picea pungens* | 21 | 3 | G | G | G | 1.8 | CD | | | Neighbouring - Parkland | SAVE |
| 35 | Blue Spruce | *Picea pungens* | 26 | 3 | G | G | G | 1.8 | CD | | | Neighbouring - Parkland | SAVE |
| 36 | Honey Locust cultivar | *Gleditsia triacanthos* var. *inermis'* | 18 | 4 | G | G | G | 1.5 | CD | | | Neighbouring - Parkland | SAVE |
| 37 | Honey Locust cultivar | *Gleditsia triacanthos* var. *inermis'* | 21 | 4 | G | G | G | 1.8 | CD | | | Neighbouring - Parkland | SAVE |
| 38 | Honey Locust cultivar | *Gleditsia triacanthos* var. *inermis'* | 21 | 4 | G | G | G | 1.8 | CD | | | Neighbouring - Parkland | SAVE |
| 39 | Norway Maple | *Acer platanoides* | 17 | 3 | FG | G | G | 1.5 | CD | Seam | | Private - Subject Site | SAVE |
| 40 | Norway Maple | *Acer platanoides* | 20 | 3 | G | G | G | 1.5 | D | | | Private - Subject Site | SAVE |
| 41 | Norway Maple | *Acer platanoides* | 32 | 4 | F | G | G | 2.4 | D | Seam, girdling roots | | Private - Subject Site | SAVE |
| 42 | Norway Maple | *Acer platanoides* | 27 | 4 | G | G | G | 1.8 | D | | Direct conflict with proposed driveway, 100% mTPZ encroachment | Private - Subject Site | REMOVE |
| 43 | Norway Maple | *Acer platanoides* | 23 | 3 | F | G | G | 1.8 | D | Girdling roots, exposed roots | | Private - Subject Site | SAVE |
| 44 | Norway Maple | *Acer platanoides* | 21 | 4 | F | G | G | 1.8 | D | Girdling root, seam | | Private - Subject Site | SAVE |
| 45 | Norway Maple | *Acer platanoides* | 25 | 3 | G | G | G | 1.8 | D | | Direct conflict with proposed driveway, 100% mTPZ encroachment | Private - Subject Site | REMOVE |
| 46 | Norway Maple | *Acer platanoides* | 18 | 3 | G | G | G | 1.5 | D | | Direct conflict with proposed transformer duct bank | Private - Subject Site | REMOVE |
| 47 | Norway Maple | *Acer platanoides* | 23 | 4 | FG | G | G | 1.8 | D | Seam | | Private - Neighbouring | SAVE |
| 48 | Kentucky Coffeetree | *Gymnocladus diocius* | 3 | 0.5 | G | G | G | 1.2 | D | | | Public - Municipal ROW | SAVE |
| 49 | Kentucky Coffeetree | *Gymnocladus diocius* | 4 | 1 | G | G | G | 1.2 | D | | Direct conflict with proposed driveway, 100% mTPZ encroachment | Public - Municipal ROW | REMOVE (with permission) |
| 50 | Kentucky Coffeetree | *Gymnocladus diocius* | 4 | 0.5 | G | G | G | 1.2 | D | | Direct conflict with proposed driveway, 50% mTPZ encroachment | Public - Municipal ROW | REMOVE (with permission) |
| 51 | Silver Maple | *Acer saccharinum* | 18 | 5 | FG | PF | PF | 1.5 | D | Stem wound at flare, 30% crown dieback | | Public - Municipal ROW | SAVE |
| 52 | Honey Locust cultivar | *Gleditsia triacanthos* var. *inermis'* | 4 | 0.5 | G | G | G | 1.2 | D | | conflict with driveway visibility, removal recommended by City of Mississauga Traffic Review | Public - Municipal ROW | REMOVE (with permission) |
| 53 | Honey Locust cultivar | *Gleditsia triacanthos* var. *inermis'* | 4 | 0.5 | G | G | G | 1.2 | D | | Direct conflict with proposed driveway, 100% mTPZ encroachment | Public - Municipal ROW | REMOVE (with permission) |
| 54 | Honey Locust cultivar | *Gleditsia triacanthos* var. *inermis'* | 4 | 0.5 | G | G | G | 1.2 | D | | conflict with driveway visibility, removal recommended by City of Mississauga Traffic Review | Public - Municipal ROW | REMOVE (with permission) |
| 55 | Silver Maple | *Acer saccharinum* | 21 | 3 | F | P | P | 1.8 | D | Girdling root, 40% crown dieback | | Public - Municipal ROW | SAVE |
| 56 | Silver Maple | *Acer saccharinum* | 25 | 4 | F | F | F | 1.8 | D | Union at 2 m, girdling root, 20% crown dieback | | Public - Municipal ROW | SAVE |

## CHART LEGEND/CODES

***DBH:*** *Diameter at Breast Height (cm)*

***Trunk Integrity (TI):*** *G = Good, F = Fair, P = Poor*

***Crown Structure (CS):*** *G = Good, F = Fair, P = Poor*

***Crown Vigor (CV):*** *G = Good, F = Fair, P = Poor*

***Crown Class:*** *D = Dominant, CD = Codominant, I = Intermediate, S = Suppressed*

** CROWN CLASS*
*Dominant- (D) Emergent canopy (receives full sunlight)*
*Co-dominant - (C) Not fully emergent (top of canopy receives sunlight)*
*Intermediate - (I) Sub-canopy tree (receives partial sunlight)*

*** CONDITION - consideration of trunk integrity, crown structure and crown vigor*
*Good - few or no issues related to trunk integrity, crown structure or crown vigor*
*Fair - minor issues related to trunk integrity, crown structure (form, some dead or damged branches) or crown vigor (20-80% healthy foliage)*
*Poor - issues with trunk integrity such as cavities or exposed dead wood, poor crown structure (poor form, no clear leader, significant dead or damaged branches) or poor crown vigor (<20% healthy foliage)*

*CONDITION OF TREES*
*The decision to remove or retain a tree is subject to the forecasted development impacts, the structural condition of the tree (e.g. cracks, cavities, decay, weak branching, leaning, hazard potential), the biological condition of the tree (e.g. pest or disease concerns, overall health) and the suitability of the tree in its location (e.g. hardiness, soil conditions, salt tolerance, visual distruction, available soil volume)*

## MINIMUM TREE PROTECTION ZONES AS PER CITY OF MISSISSAUGA TREE PRESERVATION AND PROTECTION STANDARDS:

| TRUNK DIAMETER (DBH) | MINIMUM TREE PROTECTION ZONE (MTPZ)[1] DISTANCE REQUIRED |
|---|---|
| <10 cm | 1.2m |
| 10-20 cm | 1.5m |
| 21-30 cm | 1.8m |
| 31-40 cm | 2.4m |
| 41-50 cm | 3.0m |
| 51-60 cm | 3.6m |
| 61-70 cm | 4.2m |
| 71-80 cm | 4.8m |
| 81-90 cm | 5.4m |
| 91-100 cm | 6.0m |
| >100 cm | 6 cm per 1 cm DBH |

*[1] MTPZ distance to be measured from outside edge of a tree towards the dripline*


adesso design inc.
landscape architecture

69 John Street South, Suite 250
Hamilton, ON L8N 2B9
t. 905.526.8876
www.adessodesigninc.ca



DRAWINGS ARE NOT TO BE SCALED.

CONTRACTOR MUST VERIFY ALL DIMENSIONS ON THE JOB AND REPORT ANY DISCREPANCY TO ARCHITECTS BEFORE PROCEEDING WITH WORK.

ALL DRAWINGS AND SPECIFICATIONS ARE THE PROPERTY OF THE ARCHITECT AND MUST BE RETURNED AT THE COMPLETION OF THE WORK.


SEALS

NOTE:
Vegetation inventory undertaken by Jeremy Jackson, ISA Certified Arborist (ON-1089A) on 2023-04-19.

City of Mississauga
Fire Station #123
3050 The Collegeway
Mississauga

| NO. | ISSUES/REVISIONS | DATE |
|---|---|---|
| 9 | Issued for submission | 2024-04-30 |
| 8 | Issued for tender | 2024-03-07 |
| 7 | Issued for permit submission | 2024-02-27 |
| 6 | Issued for submission | 2024-02-27 |
| 5 | Issued for submission | 2023-11-23 |
| 4 | Issued for submission | 2023-08-31 |
| 3 | Issued for client review | 2023-07-17 |
| 2 | Issued for client review | 2023-06-28 |
| 1 | Issued for client review | 2023-06-07 |

DRAWING TITLE:

Tree Protection Plan Chart

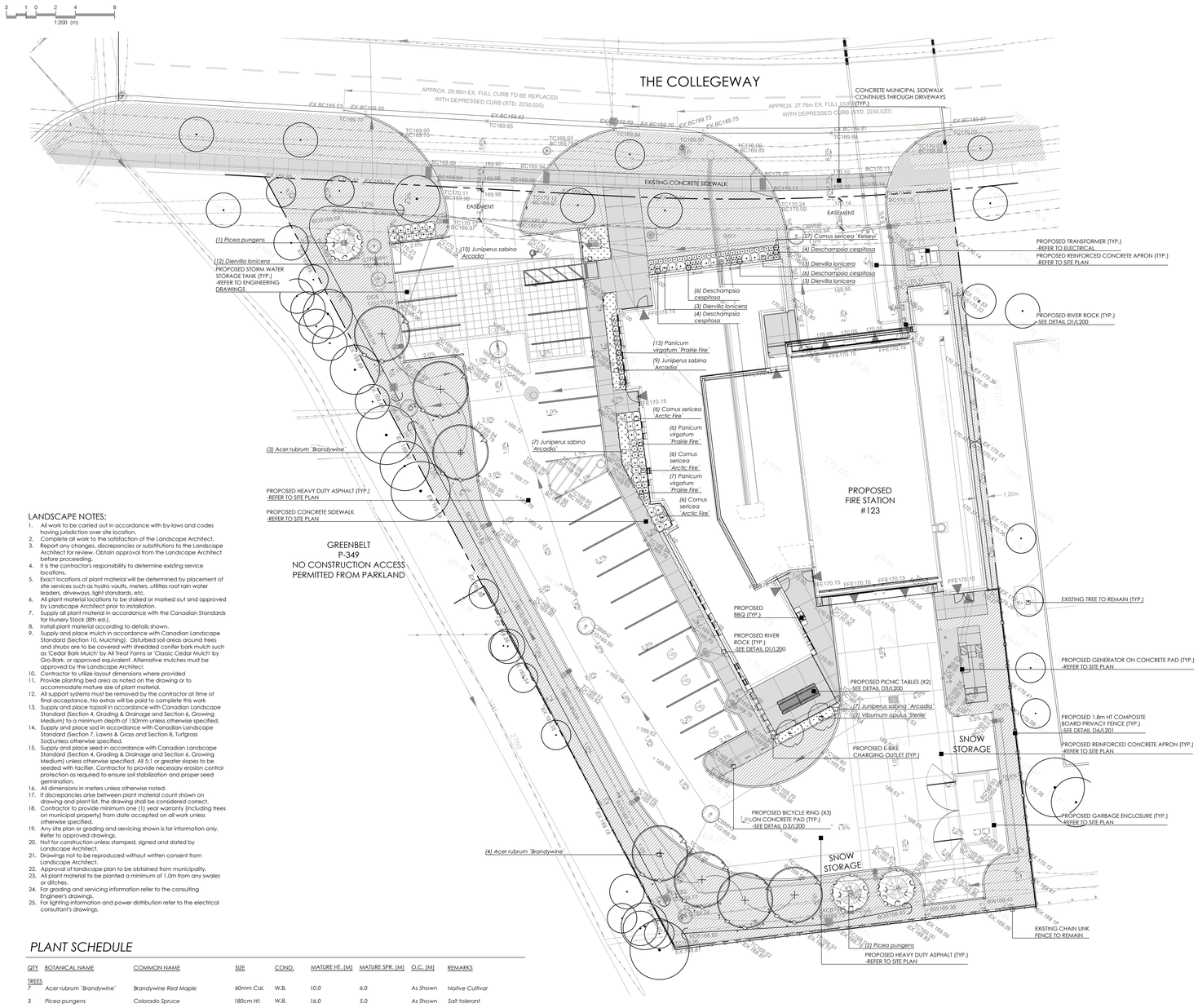
ISSUE DATE:

DRAWN BY: CP CHECKED BY: SH

PROJECT NO.: 22-293 SCALE: As Shown

DRAWING NO.: L101 REVISION:

[ PLOT DATE ]




## LANDSCAPE NOTES:

1. All work to be carried out in accordance with by-laws and codes having jurisdiction over site location.
2. Complete all work to the satisfaction of the Landscape Architect.
3. Report any changes, discrepancies or substitutions to the Landscape Architect for review. Obtain approval from the Landscape Architect before proceeding.
4. It is the contractor's responsibility to determine existing service locations.
5. Exact locations of plant material will be determined by placement of site services such as hydro vaults, meters, utilities roof rain water leaders, driveways, light standards, etc.
6. All plant material locations to be staked or marked out and approved by Landscape Architect prior to installation.
7. Supply all plant material in accordance with the Canadian Standards for Nursery Stock (8th ed.).
8. Install plant material according to details shown.
9. Supply and place mulch in accordance with Canadian Landscape Standard (Section 10, Mulching). Disturbed soil areas around trees and shrubs are to be covered with shredded conifer bark mulch such as 'Cedar Bark Mulch' by All Treat Farms or 'Classic Cedar Mulch' by Gro-Bark, or approved equivalent. Alternative mulches must be approved by the Landscape Architect.
10. Contractor to utilize layout dimensions where provided
11. Provide planting bed area as noted on the drawing or to accommodate mature size of plant material.
12. All support systems must be removed by the contractor at time of final acceptance. No extras will be paid to complete this work
13. Supply and place topsoil in accordance with Canadian Landscape Standard (Section 4, Grading & Drainage and Section 6, Growing Medium) to a minimum depth of 150mm unless otherwise specified.
14. Supply and place sod in accordance with Canadian Landscape Standard (Section 7, Lawns & Grass and Section 8, Turfgrass Sod)unless otherwise specified.
15. Supply and place seed in accordance with Canadian Landscape Standard (Section 4, Grading & Drainage and Section 6, Growing Medium) unless otherwise specified. All 5:1 or greater slopes to be seeded with tacifier. Contractor to provide necessary erosion control protection as required to ensure soil stabilization and proper seed germination.
16. All dimensions in meters unless otherwise noted.
17. If discrepancies arise between plant material count shown on drawing and plant list, the drawing shall be considered correct.
18. Contractor to provide minimum one (1) year warranty (including trees on municipal property) from date accepted on all work unless otherwise specified.
19. Any site plan or grading and servicing shown is for information only. Refer to approved drawings.
20. Not for construction unless stamped, signed and dated by Landscape Architect.
21. Drawings not to be reproduced without written consent from Landscape Architect.
22. Approval of landscape plan to be obtained from municipality.
23. All plant material to be planted a minimum of 1.0m from any swales or ditches.
24. For grading and servicing information refer to the consulting Engineer's drawings.
25. For lighting information and power distribution refer to the electrical consultant's drawings.

## PLANT SCHEDULE

| QTY | BOTANICAL NAME | COMMON NAME | SIZE | COND. | MATURE HT. (M) | MATURE SPR. (M) | O.C. (M) | REMARKS |
|---|---|---|---|---|---|---|---|---|
| **TREES** | | | | | | | | |
| 7 | *Acer rubrum 'Brandywine'* | *Brandywine Red Maple* | *60mm Cal.* | *W.B.* | *10.0* | *6.0* | *As Shown* | *Native Cultivar* |
| 3 | *Picea pungens* | *Colorado Spruce* | *180cm Ht.* | *W.B.* | *16.0* | *5.0* | *As Shown* | *Salt tolerant* |
| **SHRUBS** | | | | | | | | |
| 18 | *Cornus sericea 'Arctic Fire'* | *Arctic Fire Dogwood* | *60cm* | *#3 cont.* | *1.0* | *1.0* | *0.80* | *Native cultivar, salt tolerant* |
| 27 | *Cornus sericea 'Kelsey'* | *Kelsey's Dwarf Red Osier Dogwood* | *60cm* | *#3 cont.* | *0.50* | *0.50* | *0.40* | *Native cultivar* |
| 21 | *Dierville lonicera* | *Bush Honeysuckle* | *60cm* | *#3 cont.* | *1.0* | *1.0* | *0.90* | *Native to Ontario* |
| 2 | *Viburnum opulus 'Sterile'* | *European Cranberrybush* | *175cm* | *#10 cont.* | *2.5* | *3.0* | *2.75* | *Tree form, salt tolerant* |
| **GRASSES** | | | | | | | | |
| 20 | *Deschampsia cespitosa* | *Tufted Hair Grass* | *--* | *#1 cont.* | *0.70* | *0.70* | *0.60* | *Native to Ontario* |
| 28 | *Panicum virgatum 'Prairie Fire'* | *Prairie Fire Switch Grass* | *--* | *#1 cont.* | *1.3* | *0.70* | *0.60* | *Native cultivar, salt tolerant* |
| **GROUND COVERS** | | | | | | | | |
| 33 | *Juniperus sabina 'Arcadia'* | *Arcadia Juniper* | *60cm* | *#3 cont.* | *0.20* | *1.0* | *0.80* | *Salt tolerant* |

## PROJECTS ADJACENT TO PARKLAND NOTE:

The Applicant is responsible for the installation of hoarding to protect the adjacent parkland (includes parks, greenbelts, woodlots) to Community Services' standards.

The Applicant accepts responsibility for arranging all necessary permits to enter and perform the required works on parkland, as approved through the development application. The Applicant will provide a minimum of one (1) week written notice to the Manager of Park Planning, and the Manager of Parks Operations, City of Mississauga, prior to initiating any construction activities within the adjoining parkland, which had been approved through the development application.

The Applicant accepts the responsibility for arranging all necessary repairs to and the reinstatement of, the adjoining parkland, due to damages incurred by the construction works associated with this application.

These works will be completed prior to submitting the Request for Inspection and the subsequent request for the release of securities from the Community Services Department.

The Applicant acknowledges that securities being held by the City will be released only upon completion of all construction activities and the repairs/reinstatement works for the parkland, to the satisfaction of the Community Services Department.

Signature of Owner: _____

Name of Owner: _____

Address: _____

Date: _____

## PROTECTION AND PRESERVATION OF EXISTING VEGETATION NOTE:

All existing trees (singles and groups) which are to remain shall be fully protected with hoarding erected beyond the drip line of the tree canopy to the satisfaction of the Planning and Building Department prior to the issuance of the building permit. Areas within the hoarding shall remain undisturbed and shall not be used for the storage of building materials and equipment.

The Planning and Building Department will inspect the hoarding of trees on private property, while the Community Services Department will inspect the hoarding of public trees. Hoarding must remain in place until an inspection by the City and an appropriate removal time has been agreed upon.

The developer or agents shall take every precaution necessary to prevent damage to the existing vegetation to be retained. Where limbs or portions of trees are removed to accommodate construction, they will be removed in accordance with accepted arboriculture practice. Where root systems of protected trees adjacent to construction are exposed or damaged they shall be neatly trimmed and the area backfilled with appropriate material to prevent desiccation.

No open trenching shall occur through tree preservation zones (TPZ). Only directional boring can be used for service installation in these areas.

Where necessary, vegetation will be given an overall pruning to restore the balance between roots and top growth, or to restore its appearance.

Trees that have died or have been damaged beyond repair shall be removed and replaced at the owners' expense with trees of a size and species approved by the Planning and Building Department.

## GRADING NOTE:

I hereby certify that the Landscape Plan conforms to the approved Site Grading Plan for this application.

Signature of Landscape Architect

Scott Henderson

Print Name of Landscape Architect

February 27, 2024

Date

## OWNER'S NOTE:

We agree to implement the approved Site and Landscape Plans within 18 months after the execution of the Site Plan Undertaking and will retain the Landscape Architect to make periodic site inspections. Upon completion of the works we will forward to the City of Mississauga a copy of the Completion Notification Certificate from the Landscape Architect and the applicable inspection fee.

The Landscape Architect or Consulting Engineer will provide certification to indicate that:
- the recommendations outlined in the Acoustic Vibration Study have been implemented in accordance with the study;
- the Engineering Certificate lighting Plan and the LID techniques for this project have been install in accordance with the approved plans

Any revision to the Site Plan, Landscape Plans and Engineer Certified Lighting Plan (if applicable) will be submitted to the Planning and Building Department, Development and Design Division, City of Mississauga for review and approval, prior to the commencement of the works.

We hereby authorize the City, it's authorized agents, servants or employees to enter upon our land to carryout inspections from time to time and agree to indemnity the City and its authorized agents and save them harmless from any and all actions arising out of the exercise by the City, its authorized agents, servants or employees of the rights hereby given to them. We undertake to notify the City forthwith of any change of ownership of the said lands.

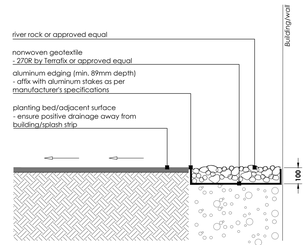
Signature of Owner: _____

Name of Owner: _____

Address: _____

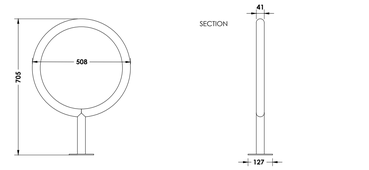
Date: _____

## SECTION




RIVER ROCK SPLASH STRIP — 1 L200

N.T.S




Maglin Bicycle Rack - MBR 150-S

COLOUR: Black (or approved equal)
UNITS: 3, see landscape plan for layout
CAPACITY: 2 Bikes per Rack

SUPPLIED BY: Maglin Furniture Systems Ltd.
Woodstock, ON
T: 1.800.716.5506
E: sales@maglin.com

BIKE RACK BY MAGLIN (OR APPROVED EQUAL) — 2 L200

N.T.S.

**APEX Picnic Table With Ipe Wood Slat Top & Benches**

US-199-23-WD3C-WD3C-B4

APEX Picnic Table with Ipe Slat Top & Benches with Chamfered Corners

66"W x 84"L x 31"H
UNITS: 2 - REFER TO PLAN FOR LOCATION
COLOUR: TBD

APEX Picnic Table with Brazilian Ipe and Aluminum. APEX is a direct result of our Zero-Waste production policy. APEX is made from leftover material, utilizing the off-cuts from our Pergola shade structures. We cut the tubing into various geometric shapes and weld them together to form the base frame. The result is a contemporary take on the traditional picnic table.

HAUSER SITE FURNITURE

Width: 66" (167.6 cm)
Depth: 84" (213.4 cm)
Height: 31" (78.7 cm)

sales@hausersite.com | 1-800-268-7328 | hausersite.com

APEX PICNIC TABLE BY HAUSER (OR APPROVED EQUAL) — 3 L200

N.T.S.

adesso design inc.
landscape architecture

69 John Street South, Suite 250
Hamilton, ON L8N 2B9
t. 905.526.8876
www.adessodesigninc.ca

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SEALS

LEGEND

- property line
- existing tree to remain
- proposed deciduous tree
- proposed shrub
- proposed perennial
- existing elevation
- proposed elevation
- min. 150mm topsoil, fine grade & sod
- cast-in-place concrete paving
- proposed transformer
- proposed light standard

KEY MAP - N.T.S.

City of Mississauga
Fire Station #123
3050 The Collegeway
Mississauga

| NO. | ISSUES/REVISIONS | DATE |
|---|---|---|
| 9 | Issued for submission | 2024-04-30 |
| 8 | Issued for tender | 2024-03-07 |
| 7 | Issued for permit submission | 2024-02-27 |
| 6 | Issued for submission | 2024-02-27 |
| 5 | Issued for submission | 2023-11-23 |
| 4 | Issued for submission | 2023-08-31 |
| 3 | Issued for client review | 2023-07-17 |
| 2 | Issued for client review | 2023-06-28 |
| 1 | Issued for client review | 2023-06-07 |

DRAWING TITLE:

Landscape Plan

ISSUE DATE:

DRAWN BY: CP CHECKED BY: SH

PROJECT NO.: 22-293 SCALE: 1:200

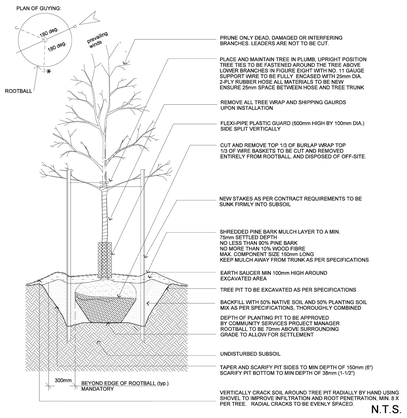
DRAWING NO.: L200 REVISION:

J

[ PLOT DATE

# 02950-1
## Planting
## Tree Deciduous

**NOTE:**
TO BE USED AS A GUIDELINE ONLY
NOT TO SCALE. REMOVE CITY TITLE BLOCK AND REDRAW TO REPRESENT SITE SPECIFIC CONDITIONS. ALL SITE SPECIFIC CONDITIONS ARE TO BE CONFIRMED BY THE PROJECT CONSULTANT.




N.T.S.

Detail: 02950-1 | ORIGINAL DATE: Oct 09/15 | REVISION DATE: month xx/1x | MISSISSAUGA

CITY OF MISSISSAUGA - DECIDUOUS TREE PLANTING DETAIL | 1 L201

N.T.S.

# 02950-2
## Planting
## Tree Coniferous

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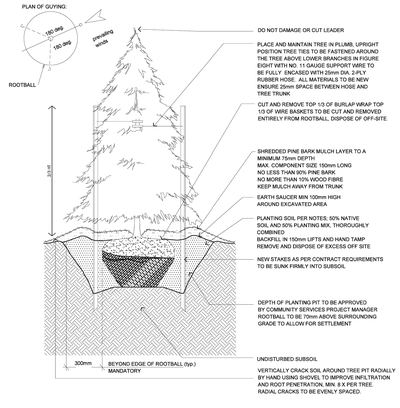


Details: 02950-2 | ORIGINAL DATE: Oct 09/15 | REVISION DATE: month xx/1x | MISSISSAUGA

CITY OF MISSISSAUGA - CONIFEROUS TREE PLANTING | 2 L201

N.T.S.

# 02950-8
## Planting
## Tree On Slope

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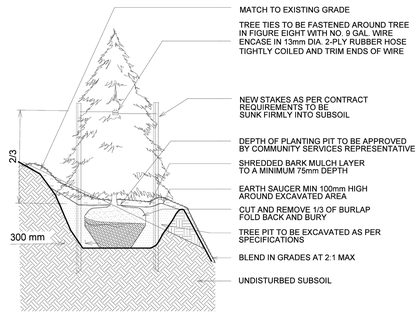


Detail: 02950-8 | ORIGINAL DATE: Oct 09/15 | REVISION DATE: month xx/1x | MISSISSAUGA

CITY OF MISSISSAUGA - TREE PLANTING ON SLOPE DETAIL | 3 L201

N.T.S.

# 02950-6
## Planting
## Shrub

**NOTE:**
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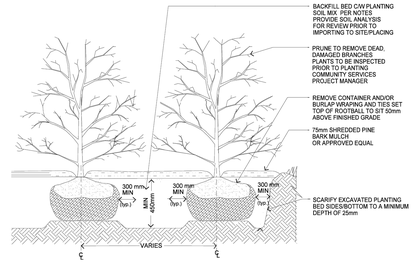
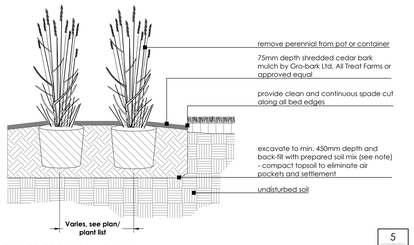



Detail: 02950-6 | ORIGINAL DATE: Oct 09/15 | REVISION DATE: month xx/1x | MISSISSAUGA

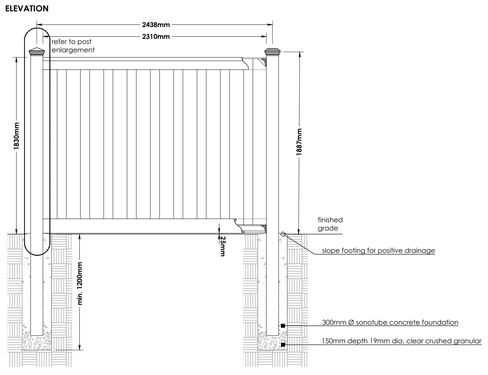
CITY OF MISSISSAUGA - SHRUB PLANTING DETAIL | 4 L201

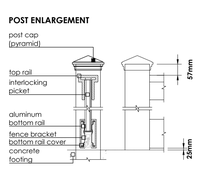
N.T.S.




CONTAINER GROWN PERENNIAL | 5 L201

N.T.S




**NOTES:**

1. Fence board and post colour to be Woodland Brown.
2. Installation to be completed per manufacturer's specification.
3. All materials, components and workmanship to conform to building and local by-laws.
4. All fences adjacent to road allowances and walkways to be erected 0.15m onto private property. Fencing is not to be erected on the lot line or into any road allowance or easement.
5. Footing and excavation to be entirely on proposed development lands.
6. This drawing is provided for planning purposes, refer to manufacturer's installations for construction details.
7. Refer to manufacturer's website for product information.
8. Concrete to have minimum compressive strength of 25MPa @ 28days with 5-7% air entrainment.
9. See landscape plan for fence location.

TREX COMPOSITE FENCING - 1.8M HT SECLUSIONS PRIVACY FENCE | 6 L201

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DRAWING TITLE:
Details

ISSUE DATE:

DRAWN BY: CP | CHECKED BY: SH

PROJECT NO.: 22-293 | SCALE: As Shown

DRAWING NO.: L201 | REVISION:

PLOT DATE: 1