

# CANADIAN MUSEUM OF NATURE NATURAL HERITAGE CAMPUS LABORATORY RENOVATION

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## GENERAL NOTES:

1. CMN PEST MANAGEMENT: ALL MATERIALS, TOOLS, AND EQUIPMENT TO BE USED TO COMPLETE THE SCOPE OF THIS PROJECT MUST BE SUBMITTED TO THE MUSEUM FOR FREEZING FOR A PERIOD OF SEVEN (7) DAYS OR FOR VISUAL INSPECTION. THIS INSPECTION AND/OR FREEZING PERIOD MUST BE ACCOUNTED FOR WITHIN THE PROJECT CONSTRUCTION SCHEDULE. ENSURE DELIVERY SCHEDULES ACCOMMODATE THIS REQUIREMENT AND DO NOT LEAD TO DELAYS.
2. NO FOOD IS PERMITTED IN THE COLLECTIONS AND LABORATORY AREAS AT ANY TIME.
3. A FIFTEEN (15) MINUTE TRAINING SESSION IS REQUIRED FOR ALL WORKERS WHO WILL ACCESS THE COLLECTIONS AND LABORATORIES.

Dimensions on drawing for estimating purposes only.  
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conditions on site prior to implementation.

KEY PLAN



N°	REVISION	DATE
4	ISSUED FOR TENDER	14/02/2014
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REVISIONS

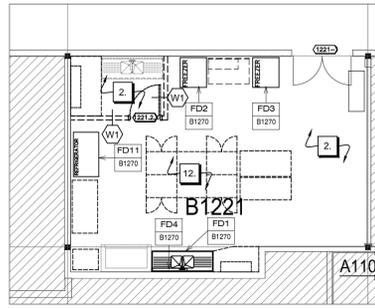
MUSEUM OF NATURE  
NATURAL HERITAGE  
CAMPUS  
1440 PINK ROAD, GATINEAU

COVER PAGE

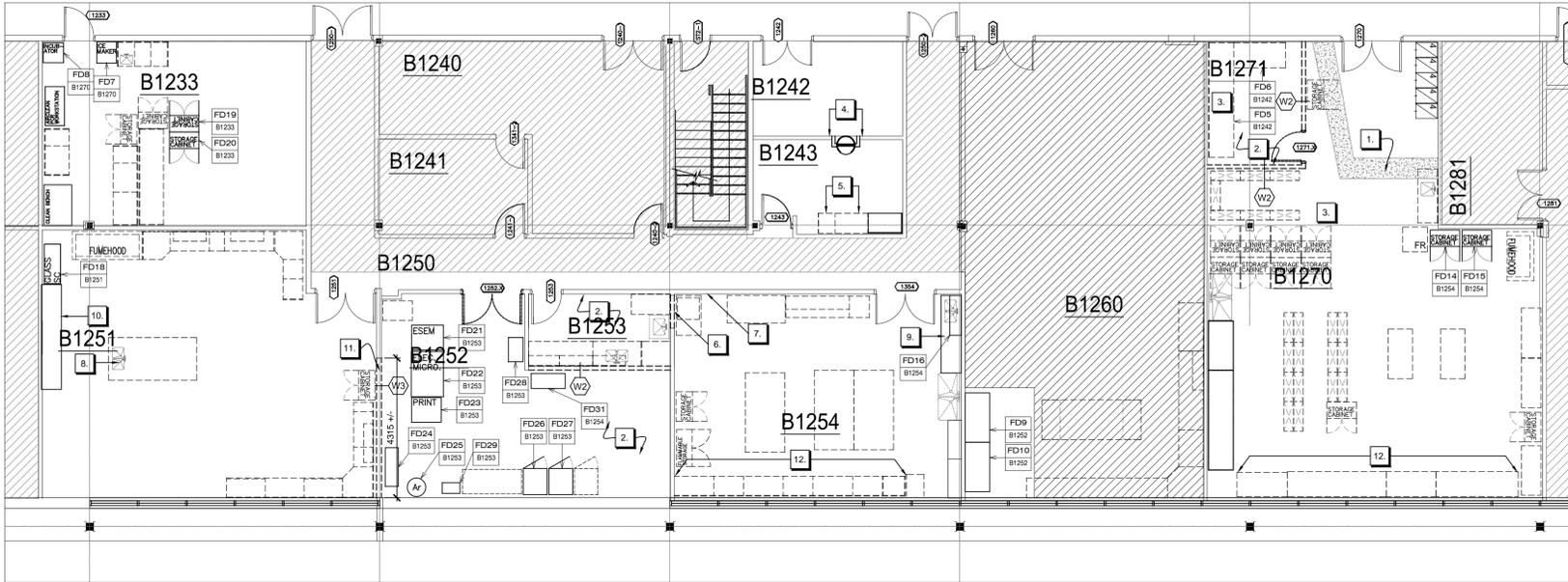
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project no.: RDPROJNO

C-101



01 DEMOLITION PLAN: B1221  
D101 SCALE: 1:100



02 DEMOLITION PLAN  
D101 SCALE: 1:100

**GENERAL NOTES FOR DEMOLITION PLAN:**

1. CONTRACTOR SHALL ENSURE THAT ALL WORK EXECUTED UNDER THIS CONTRACT IS IN KEEPING WITH ALL APPLICABLE NATIONAL, PROVINCIAL AND MUNICIPAL CODES.
2. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL WORK SPECIFIED ON ALL DRAWINGS AND SPECIFICATIONS.
3. CONTRACTOR SHALL SUPPLY ALL NECESSARY MATERIALS AND LABOUR REQUIRED TO COMPLETE THE WORK UNDER THIS CONTRACT.
4. CONTRACTOR SHALL VERIFY ALL DRAWINGS, SPECIFICATIONS, DIMENSIONS, MEASUREMENTS AS WELL AS SITE CONDITIONS, AND SHALL NOTIFY THE PROJECT MANAGER OF ALL DISCREPANCIES AND/OR OMISSIONS PRIOR TO BEGINNING ANY WORK. REFER TO THE ENGINEERING DRAWINGS FOR ALL MECHANICAL AND ELECTRICAL REQUIREMENTS AND SPECIFICATIONS.
5. CONTRACTOR TO PROVIDE PROPER DUST CONTROL AND USE DROP SHEETS OR OTHER MEANS TO LIMIT THE TRAVEL OF DUST AND DEBRIS.
6. CONTRACTOR TO REMOVE ANY OBSOLETE ARCHITECTURAL CONSTRUCTION ABOVE THE CEILINGS WHERE EXISTING PARTITIONS ARE TO BE REMOVED.
7. PROTECTION:
  - 7.1. CONTRACTOR SHALL PROTECT FINISHED AND UNFINISHED WORK OF THIS CONTRACT AND/OR WORK OF OTHERS ON SITE UNTIL WORK HAS BEEN COMPLETED AND ACCEPTED.
  - 7.2. PROTECT BUILDING SYSTEMS, SERVICES AND EQUIPMENT.
  - 7.3. PROVIDE TEMPORARY DUST SCREENS, COVERS, RAILINGS, SUPPORTS AND OTHER PROTECTION AS REQUIRED.
  - 7.4. CONTRACTOR SHALL PROTECT THE AREA OUTSIDE THE CONTRACT AREA FROM DEBRIS AND DUST RESULTING FROM DEMOLITION, AND TO KEEP SITE CLEAN AND ORGANIZED THROUGHOUT DEMOLITION TO MAXIMIZE THE RE-USE AND RECYCLING OF SALVAGED MATERIAL WITH MINIMUM DAMAGE.
8. CONTRACTOR TO CAREFULLY REMOVE, RETAIN AND REUSE MILLWORKS, DOORS, FRAMES AND HARDWARE AS SPECIFIED.
9. CONTRACTOR TO CO-ORDINATE WITH PROJECT MANAGER TO ENSURE EXISTING FURNITURE (SYSTEM, FREE STANDING AND ACCESSORIES) IN WORKING AREA ARE TO BE REMOVED AND/OR RELOCATED AS REQUIRED PRIOR TO PERFORMING DEMOLITION. CONTRACTOR TO PROTECT EXISTING FURNITURE AND EQUIPMENT FROM DAMAGE AND DIRT CAUSED BY DEMOLITION AND CONSTRUCTION.
10. CONTRACTOR TO CUT OPENING IN EXISTING WALL FOR A.M.E AS REQUIRED. NOTE: CONTRACTOR TO VERIFY WALL CONSTRUCTION AND PATCH & REPAIR WALL UPON COMPLETION OF WORK. FINISH TO MATCH EXISTING WALL CONSTRUCTION.
11. CONTRACTOR TO COMPLETE ALL REQUIRED FURNITURE REMOVALS AND RELOCATIONS WITH CARE.
12. DEMOLISHED WORK, DEBRIS, AND MATERIALS MUST BE REMOVED FROM THE CONSTRUCTION AREA ON A **DAILY** BASIS.

**DEMOLITION PLAN LEGEND**

**PARTITIONS**

- (W1) EXISTING PARTITION TO REMAIN
- (W2) PARTITION CONSTRUCTED FROM FLOOR TO U/S SUSPENDED CEILING TO BE REMOVED C/W ALL WALL MOUNTED POWER, VOICE, AND DATA.
- (W3) EXISTING 1 HOUR FIRE RATED PARTITION TO BE REMOVED C/W ALL WALL MOUNTED POWER, VOICE, AND DATA.
- (W4) EXISTING 2 HOUR FIRE RATED PARTITION TO BE REMOVED C/W ALL WALL MOUNTED POWER, VOICE, AND DATA.

**DOORS**

- (D1) EXISTING SINGLE WIDTH DOOR C/W FRAME AND HARDWARE (INCLUDING THRESHOLDS WHERE APPLICABLE) TO BE REMOVED.
- (D2) EXISTING DOUBLE DOOR C/W FRAME AND HARDWARE (INCLUDING THRESHOLDS WHERE APPLICABLE) TO BE REMOVED.
- (D3) DOOR NUMBER FOR REMOVED DOORS FOR INFORMATION AND COORDINATION PURPOSES ONLY.

**FURNITURE AND FIXTURES**

- REPAIR ALL SURFACES AFFECTED BY REMOVAL OF FURNITURE AND FIXTURE ITEMS.
- (FH) REMOVE EXISTING FUMEHOOD. REFER TO ENGINEER'S DRAWINGS FOR DETAILS. TURN OVER FUMEHOOD TO OWNER.
- (S) REMOVE EXISTING SINK UNIT C/W ALL PLUMBING. REFER TO ENGINEER'S DRAWINGS FOR DETAILS.
- (SU) EXISTING SINK UNIT (NUMBER OF BASINS AND SIZES VARY) TO BE REMOVED. REFER TO ENGINEER'S DRAWINGS FOR PLUMBING RELOCATION DETAILS.
- (F) DENOTES FURNITURE/EQUIPMENT ITEM TO BE RELOCATED. F# INDICATES FURNITURE ITEM N°. F### INDICATES FINAL LOCATION OF FURNITURE ITEM.
- (---) TYPICAL: UNLESS OTHERWISE SHOWN, DASHED LINE INDICATES FURNITURE/MILLWORK ITEMS TO BE REMOVED.

**PLAN NOTES**

1. CUT FLOOR SLAB AS REQUIRED AND PROVIDE TRENCH FOR NEW PLUMBING. REFER TO ENGINEER'S DRAWINGS FOR PLUMBING DETAILS. COORDINATE WITH MECHANICAL TRADE FOR EXACT PATH AND SIZE REQUIRED. UPON COMPLETION OF PLUMBING WORK, INFILL TRENCH WITH CONCRETE, TO MATCH EXISTING. LEVEL FLOOR AND MAKE READY TO RECEIVE NEW FLOOR FINISH.
2. REMOVE FLOORING AND COVE WALL BASE. SCRAPE FLOOR AND MAKE READY TO RECEIVE NEW RESILIENT FLOORING.
3. REMOVE 'ELEPHANT TRUNK'. CAP MECHANICAL AS REQUIRED. REFER TO ENGINEER'S DRAWINGS FOR DETAILS. ALL SURPLUS ELEPHANT TRUNKS ARE TO BE TURNED OVER TO OWNER.
4. REMOVE REVOLVING DARK ROOM DOOR AND RELATED PARTITION CONSTRUCTION. INFILL PARTITION WITH CONSTRUCTION TO MATCH EXISTING.
5. REMOVE AND RETAIN SINGLE WIDTH CABINET AND REMOVE AND DISPOSE OF ADJACENT DOUBLE WIDTH CABINET. REINSTALL SINGLE WIDTH CABINET ADJACENT TO REMAINING DOUBLE WIDTH CABINET. MODIFY EXISTING COUNTERTOP TO SUIT REVISIONS TO LAYOUT.
6. PROVIDE OPENING IN EXISTING 1HR FIRE RATED PARTITION TO ACCOMMODATE NEW SINGLE WIDTH DOOR. ADJUST FRAMING AS REQUIRED TO SUIT NEW DOOR ASSEMBLY. REFER TO PARTITION PLAN FOR DETAILS.
7. REMOVE AND CAP EXISTING GAS LINES. REFER TO ENGINEER'S DRAWINGS.
8. REMOVE EXISTING COUNTERTOP AND SINK. CAP PLUMBING. REFER TO ENGINEER'S DRAWINGS FOR DETAILS. EXISTING BASE CABINETS TO REMAIN. REFER TO PARTITION PLAN.
9. REMOVE EXISTING DOUBLE BOWL SINK AND REPLACE WITH NEW SINGLE BOWL SINK. REFER TO ENGINEER'S DRAWINGS FOR DETAILS. REPLACE COUNTERTOP. REFER TO PARTITION PLAN.
10. REMOVE EXISTING COUNTERTOP AND REPLACE WITH NEW COUNTERTOP. REFER TO PARTITION PLAN.
11. CONTRACTOR TO REMOVE EXISTING PARTITION ONLY TO 100mm (4") BELOW ACOUSTICAL CEILING. CONTRACTOR TO ADJUST FRAMING AS REQUIRED AND SUPPLY AND INSTALL NEW GYPSUM WALL BOARD TO CREATE CAPPED BULKHEAD. TAPE AND SAND ALL JOINTS. PAINT BULKHEAD TO MATCH EXISTING.
12. CONTRACTOR TO RETAIN LAB BENCHES NOTED AND RELOCATE AS DIRECTED BY CANADIAN MUSEUM OF NATURE.

Dimensions on drawing for estimating purposes only. It is the responsibility of each Contractor and Sub-Contractor to check all dimensions and conditions on site prior to implementation.

KEY PLAN



**IMPORTANT:**  
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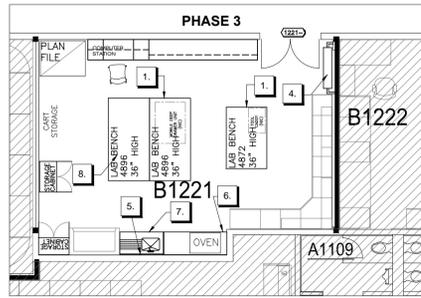
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MUSEUM OF NATURE  
NATURAL HERITAGE  
CAMPUS  
1440 PINK ROAD, GATINEAU

DEMOLITION PLAN

scale:	1:100
drawn:	LR/RB
reviewed:	LR
date:	NOV 2013

project no.: RDPROJND



01 PHASING, FURNITURE AND EQUIPMENT PLAN: B1221  
F101 SCALE: 1:100

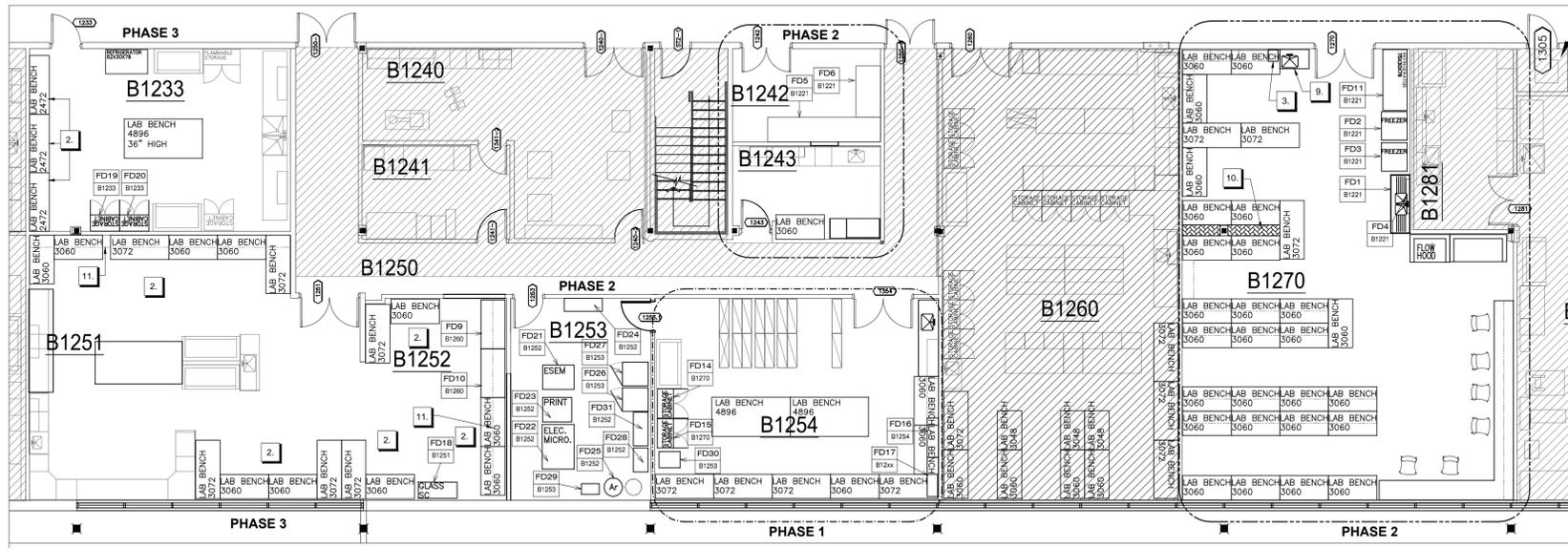
**FURNITURE LEGEND**

NOTE: ALL FURNITURE IS BY CONTRACTOR UNLESS OTHERWISE NOTED.

- NEW LAB BENCH TO BE SUPPLIED AND INSTALLED BY CONTRACTOR. REFER TO F102 FOR LAB BENCH DETAILS.
- NEW 36" WIDE X 20" DEEP X 72" HIGH METAL STORAGE CABINET BY CONTRACTOR. COLOUR TO BE SELECTED BY CLIENT FROM MANUFACTURER'S STANDARD RANGE.
- CHAIR TO BE SUPPLIED AND INSTALLED BY CLIENT
- DENOTES NEW METAL HIGH DENSITY MOBILE SHELVING UNIT TO BE SUPPLIED AND INSTALLED BY OTHERS.
- DENOTES RELOCATED FURNITURE/EQUIPMENT ITEM. FID# INDICATES FURNITURE ITEM N° B### INDICATES "FROM" LOCATION OF FURNITURE ITEM.

**PLAN NOTES**

1. NO STORAGE BELOW LAB BENCH NOTED. LAB BENCHES ARE NOT TO BE SECURED TO THE FLOOR.
2. LAB BENCH 30" HIGH
3. SUPPLY AND INSTALL NEW 300mm X 380mm SHELF C/W SHELF BRACKETS TO SUPPORT 20L CARBOY. INCLUDE SUFFICIENT SUPPORTS AND BACKING TO SUPPORT WEIGHT OF WATER CARBOY
4. SUPPLY AND INSTALL NEW ROLLED STORAGE C/W DUST COVER BY MONTEL. SUBMIT PRODUCT MATERIAL FOR REVIEW/APPROVAL BY CMN.
5. SUPPLY AND INSTALL NEW PEG BOARD AND DRIP RACK: DURCON INCORPORATED OR SIMILAR. PEG MATERIAL POLYPROPYLENE, BLACK COLOUR. STYLE: 3030 (46 PEGS)
6. LAB BENCH WITH LOWER STORAGE AND STAINLESS STEEL COUNTERTOP AT WIDTH NOTED (BY OTHERS).
7. LAB BENCH WITH SINK AND STAINLESS STEEL COUNTERTOP. LOWER STORAGE TO BE CABINET UNITS. LAB BENCH UNIT BY OTHERS. COORDINATE WITH MECHANICAL TRADE FOR CONNECTION OF SINK.
8. LAB BENCH TO HAVE LOWER STORAGE INTEGRATED IN BENCH UNIT FOR ADDITIONAL PAPER ROLLS AND LARGE, FLAT STORAGE.
9. SUPPLY AND INSTALL NEW PEG BOARD AND DRIP RACK: DURCON INCORPORATED OR SIMILAR. PEG MATERIAL POLYPROPYLENE, BLACK COLOUR. STYLE: 3030 (60 PEGS)
10. HATCHED REGION INDICATES FILLER PANEL BETWEEN BENCHES.
11. SUPPLY AND INSTALL NEW SHELF C/W DECORATIVE SHELF SUPPORT. REFER TO A201 AND A202 FOR TYPICAL DETAILS.



02 PHASING, FURNITURE AND EQUIPMENT PLAN  
F101 SCALE: 1:100

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KEY PLAN



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REVISIONS

MUSEUM OF NATURE  
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CAMPUS  
1440 PINK ROAD, GATINEAU  
FURNITURE &  
EQUIPMENT PLAN  
PROJECT PHASING

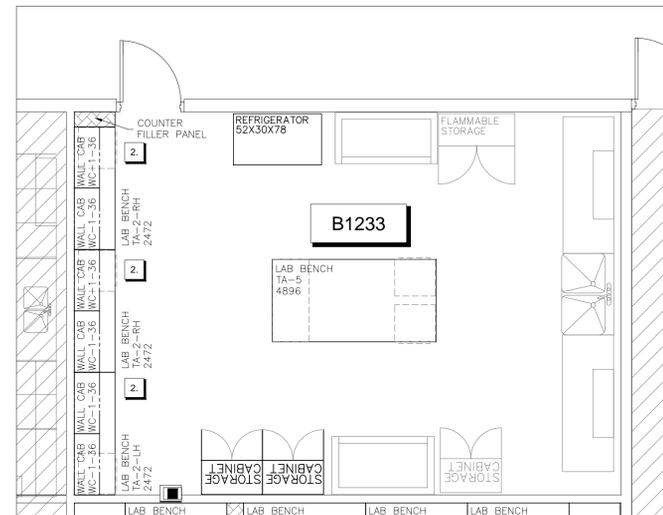
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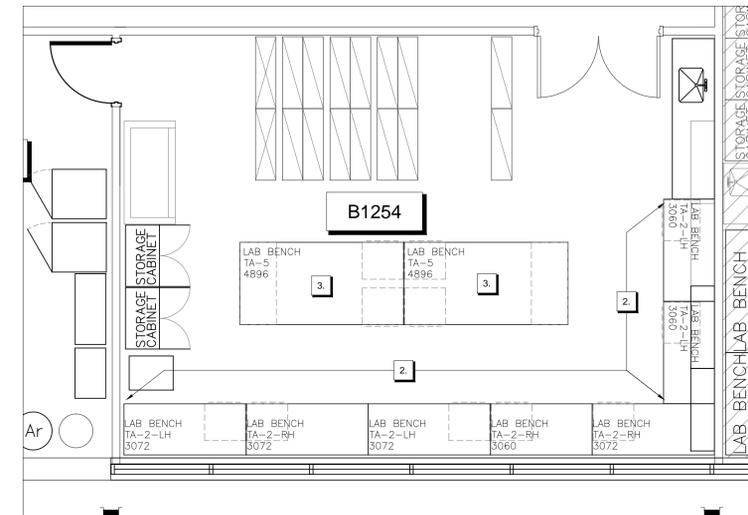
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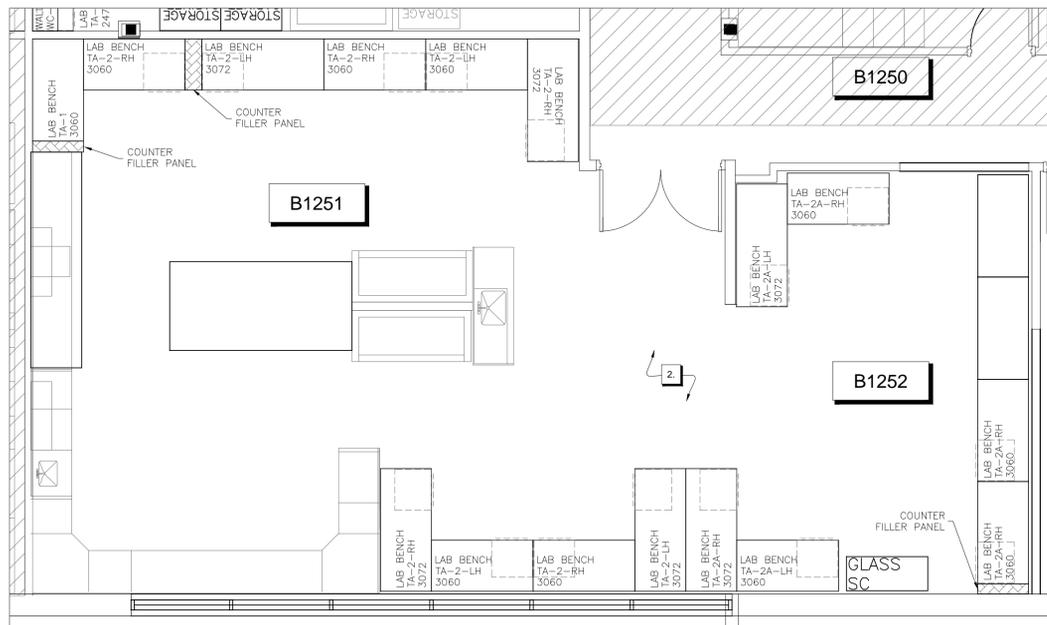
01 FURNITURE PLAN: B1221  
F102 SCALE: 1:50



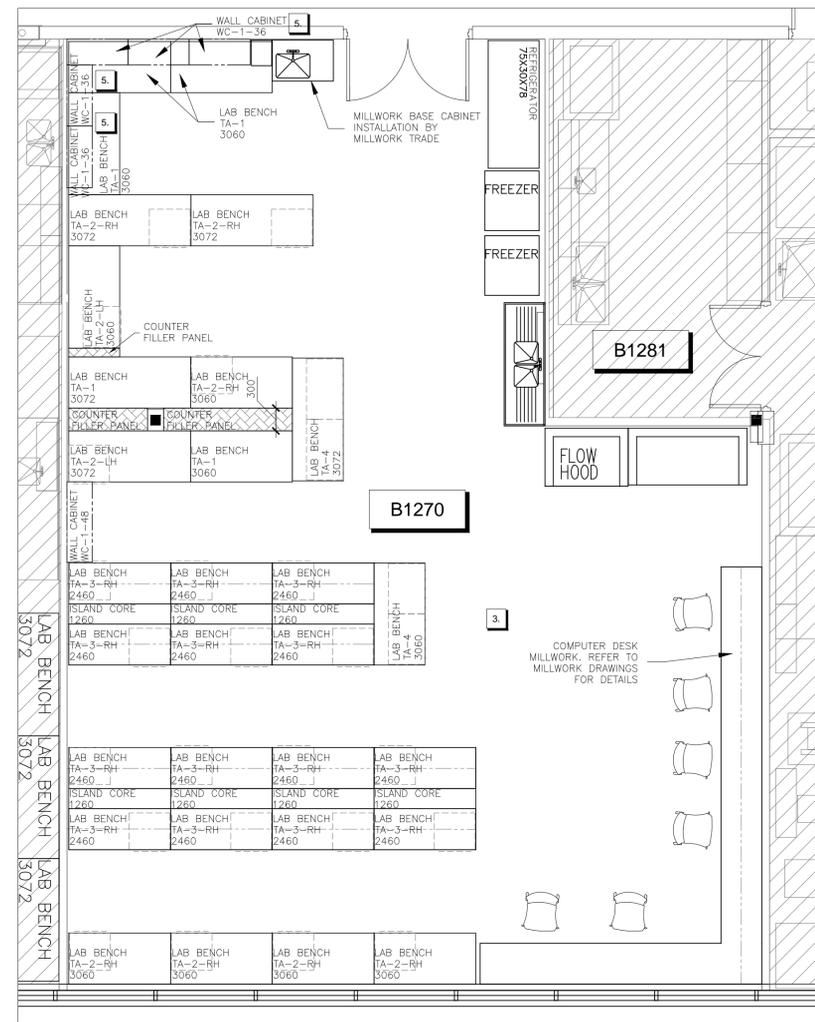
02 FURNITURE PLAN: B1233  
F102 SCALE: 1:50



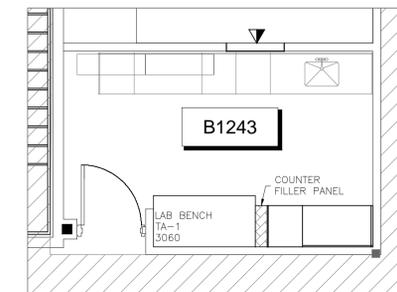
03 FURNITURE PLAN: B1254  
F102 SCALE: 1:50



04 FURNITURE PLAN: B1251/B1252  
F102 SCALE: 1:50



05 FURNITURE PLAN: B1270  
F102 SCALE: 1:50



06 FURNITURE PLAN: B1243  
F102 SCALE: 1:50

KEY PLAN



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FURNITURE PLAN

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F-102

FURNITURE LEGEND

NOTE: ALL FURNITURE IS BY FURNITURE CONTRACTOR UNLESS OTHERWISE NOTED.



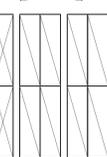
NEW LAB BENCH.  
TA-X-HH INDICATES TABLE TYPE AND LOCATION OF LOWER STORAGE WHERE APPLICABLE.  
WIDD INDICATES WIDTH AND DEPTH OF LAB BENCH.  
REFER TO PLAN NOTES FOR HEIGHTS AND ELEVATIONS FOR LAB BENCH DETAILS.



NEW WALL MOUNTED UPPER CABINET  
WC-X-WW INDICATES WALL CABINET TYPE AND WIDTH OF WALL CABINET. CABINET TO BE 400mm DEEP.  
COORDINATE WITH CMN FOR MOUNTING HEIGHT OF UPPER CABINET.  
REFER TO ELEVATION FOR DETAILS.



NEW 36" WIDE METAL STORAGE CABINET BY OTHERS

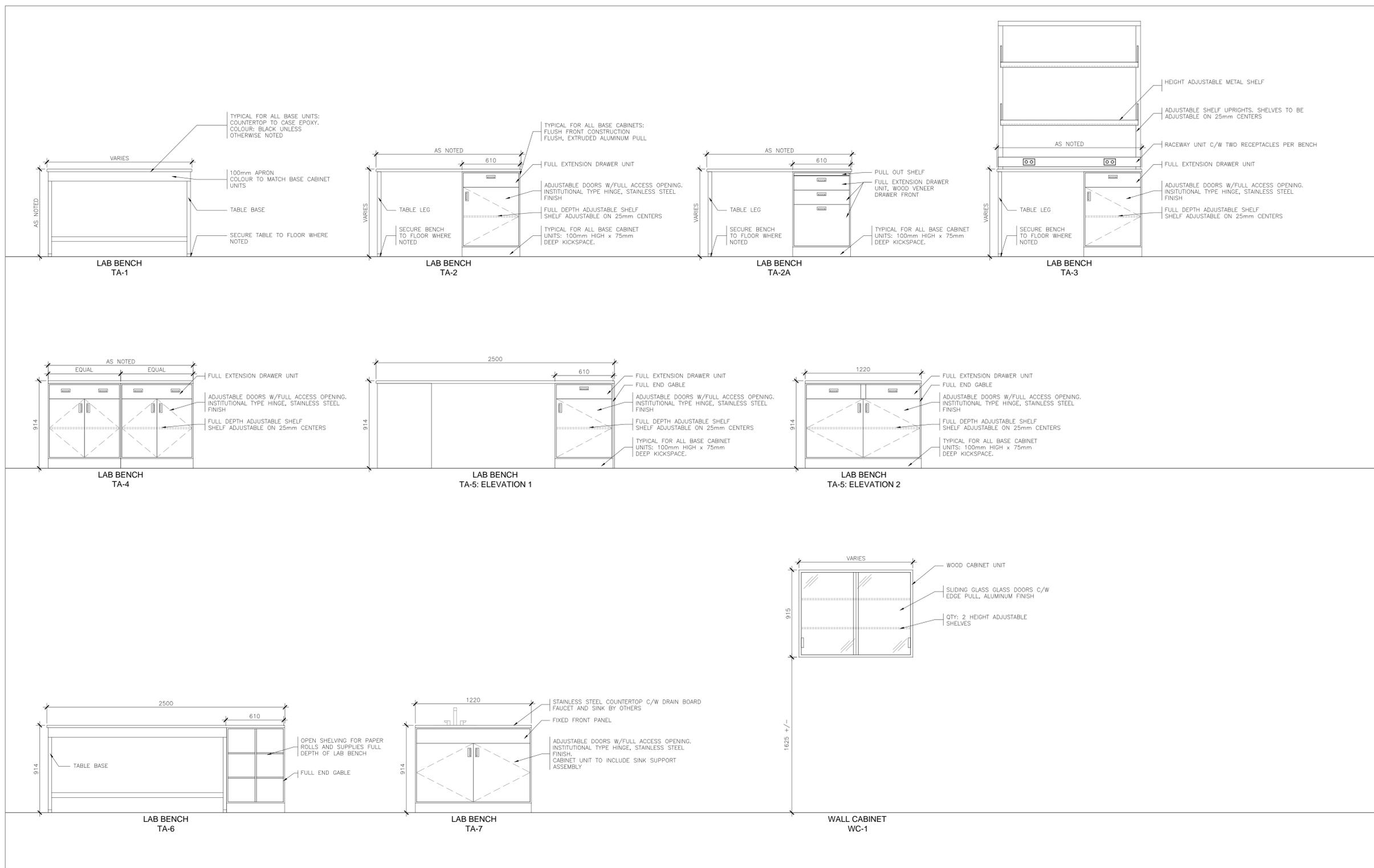


DENOTES NEW METAL HIGH DENSITY MOBILE SHELVING UNIT TO BE SUPPLIED AND INSTALLED BY OTHERS.

PLAN NOTES

- LAB BENCHES ARE NOT TO BE SECURED TO THE FLOOR.
- LAB BENCH 30" HIGH
- LAB BENCHES 36" HIGH
- STAINLESS STEEL COUNTERTOP ON LAB BENCH NOTED.
- UPPER CABINETS TO BE INSTALLED 405mm (16") ABOVE LAB BENCHES

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01 ELEVATIONS  
F201 SCALE: 1:20

KEY PLAN



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LAB BENCH FURNITURE  
ELEVATIONS

scale:	1:20
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reviewed:	LR
date:	NOV 2013

project no.: RDPROJND

F-201

SPECIFICATIONS FOR LAB FURNITURE

1. GENERAL
  - 1.1. SPECIFICATION IS BASED ON HAMILTON SCIENTIFIC MAX/LAB FOR PENINSULA STATIONS IN B1270 AND INSET STEEL FOR ALL OTHERS. ACCEPTABLE ALTERNATE MANUFACTURERS ARE BEDCOLAB (CHORUS AND HARMONY) AND MOTT LAB.
  - 1.2. THE FURNITURE CONTRACTOR SHALL FURNISH ALL MATERIAL, LABOUR, EQUIPMENT, TOOLS AND INSURANCE REQUIRED TO PERFORM A COMPLETE INSTALLATION IN ACCORDANCE WITH THE SPECIFICATIONS AND DRAWINGS.
  - 1.3. FURNISH ALL LABORATORY FURNITURE, DELIVER TO SITE, ASSEMBLE, LEVEL, SCRIBE, AND SECURE TO FLOORS OR WALLS AS SPECIFIED.
  - 1.4. ALL LABORATORY FURNITURE IS TO BE PROVIDED BY ONE MANUFACTURER. MANUFACTURERS FURNISHING EQUIPMENT SHALL HAVE BEEN ENGAGED IN WORK OF THIS TYPE FOR AT LEAST FIVE (5) YEARS AND HAVE COMPLETED FIVE (5) INSTALLATIONS OF EQUIVALENT SIZE.
  - 1.5. SAMPLES:
    - 1.5.1. THE SUCCESSFUL PROPONENT SHALL SUBMIT A SAMPLE CABINET MADE IN ACCORDANCE WITH THIS SPECIFICATION. SAMPLES SHALL BE DELIVERED AT NO COST TO THE CLIENT OR DESIGNER, FOR APPROVAL.
    - 1.5.2. SAMPLES SHALL BE FULL SIZE, PRODUCTION TYPE SAMPLES WITH APPROXIMATE DIMENSIONS OF 610mm WIDE x 890mm HIGH x 560mm DEEP, WITH ONE DRAWER AND ONE DOOR.
    - 1.5.3. IF APPROVED, SAMPLE MAY BE USED WITHIN FINAL INSTALLATION.
  - 1.6. SHOP DRAWINGS:
    - 1.6.1. THE LABORATORY FURNITURE CONTRACTOR SHALL FURNISH ONE (1) ELECTRONIC AND THREE (3) HARD COPY SETS OF DRAWINGS FOR REVIEW, DESCRIBING AND/OR ILLUSTRATING ALL FURNITURE COVERED UNDER THIS CONTRACT. FABRICATION MUST NOT BE STARTED UNTIL PRINTS HAVE BEEN REVIEWED WITHOUT REQUIREMENT FOR RESUBMISSION BY DESIGNER.
    - 1.6.2. MANUFACTURER TO PROVIDE SAMPLES OF FULL RANGE OF STANDARD FINISHES FOR SELECTION. SAMPLES ARE TO BE, CONSTRUCTED OF THE SAME MATERIAL FROM WHICH THE FURNITURE WILL BE CONSTRUCTED, STAINED, AND CLEARLY IDENTIFIED. STAIN AND FINISH SAMPLES WILL BE RETAINED BY THE OWNER'S REPRESENTATIVE.
  - 1.7. FIELD MEASUREMENTS: IN THE INSTANCE IN WHICH FURNITURE IS INDICATED TO FIT TO OTHER CONSTRUCTION, DIMENSIONS ARE TO BE VERIFIED BY FIELD MEASUREMENTS BEFORE FABRICATION AND REFLECTED ON SHOP DRAWINGS.
  - 1.8. THE CONTRACTOR SHALL GUARANTEE ALL MATERIALS AND WORKMANSHIP OF FURNITURE PROVIDED UNDER THIS CONTRACT FOR A PERIOD OF ONE (1) YEAR.
2. MATERIALS
  - 2.1. SOLID LUMBER:
    - 2.1.1. ALL HARDWOODS SHALL BE CAREFULLY AND THOROUGHLY AIR-DRIED, AND THEN KILN DRIED TO A MOISTURE CONTENT OF 6-9% BEFORE USE.
    - 2.1.2. ALL EXTERIOR WOOD FURNITURE SURFACES EXPOSED TO VIEW AFTER INSTALLATION, EXPOSED EXTERIOR ENDS AND TOPS AND BOTTOMS OF OPEN CASES HAVING GLAZED DOORS SHALL BE PLAIN SLICED SAP MAPLE. PROVIDE GRADE 1 'FIRSTS' ONLY.
    - 2.1.3. THE SOLID WOOD USED FOR ALL SURFACES EXPOSED TO VIEW AFTER COMPLETION OF INSTALLATION SHALL BE CLEAR, WITH COLOUR AND GRAINING TO AESTHETICALLY MATCH THE ADJACENT VENEER SURFACES.
    - 2.1.4. ALL INTERIOR PARTS FABRICATED OF HARDWOOD SHALL BE PLAIN SLICED SAP MAPLE, GRADE 1.
  - 2.2. EXPOSED VENEERS:
    - 2.2.1. VENEER USED FOR EXTERIOR SURFACES EXPOSED TO VIEW AFTER INSTALLATION, AND THE EXPOSED INTERIOR ENDS, TOPS, AND BOTTOMS OF OPEN CASES SHALL BE CONSTRUCTED OF GRADE AA (WITH MODIFICATIONS TO THE GRADE), PLAIN SLICED SAP MAPLE, BOOK MATCHED OF AT LEAST 1/2" INCH THICK VENEER MODIFIED FOR APPEARANCE AND MANUFACTURING OF FACES AS INDICATED, MANUFACTURER SHALL STRICTLY FOLLOW THE VERBIAGE OF ANSI STANDARD HP-1-2004 PARAGRAPH 3.3.3.
    - 2.2.1.1. DEVIATIONS AND CLARIFICATIONS OF STANDARDS:
      - 2.2.1.1.1. COLOUR, MATCHING, FABRICATION: 100% SAFWOOD, NO HEAR-TWOOD, NO SHARP CONTRASTS AT VENEER JOINTS, 5'-8" NOMINAL COMPONENT FACES WITH SLIGHT COLOUR VARIATION ONCE GROUPED, FACES IN EXCESS OF 8' NOMINAL SHALL BE SPLIT AND REMANUFACTURED CATHEDRAL ACHIEVED TO FALL WITHIN THE COMPONENT FACE WIDTH REQUIREMENT.
      - 2.2.1.1.2. NATURAL CHARACTERISTICS: SMALL CONSPICUOUS BURLS AND PIN KNOTS A TOTAL OF 2 PER EXPOSED SIX SQUARE FEET NO SCATTERED SOUND OR REPAIR KNOTS, NO BARK POCKETS.
      - 2.2.1.1.3. MANUFACTURING CHARACTERISTICS: ROUGH CUT OR RUPTURED GRAIN IS NOT ALLOWED AND REPAIRS MUST BE BLENDED SO AS NOT TO DETRACT FROM THE AESTHETIC APPEARANCE OF THE EXPOSED CABINET PART.
    - 2.2.2. ALL DOOR AND DRAWER FRONTS WILL BE VERTICALLY GRAIN MATCHED PER DOOR/DRAWER SETS, BLOCK CUT PER CABINET FACE. ALL CUTS SHALL LEAVE CATHEDRALS IN THE VERTICAL POSITION ON THE FACE OF THE CABINET.
  - 2.3. SEMI-EXPOSED VENEER:
    - 2.3.1. VENEER FACES USED FOR SEMI-EXPOSED AREAS SHALL BE CONSTRUCTED OF PLAIN SLICED SAP MAPLE, COMPONENT FACES, GRADE C, RANDOM MATCHED.
    - 2.3.2. INTERIOR SHELVING SHALL BE Banded WITH 1/2" PLAIN SLICED SAP MAPLE ON FRONT EDGE ONLY.
    - 2.3.2.1. PLYWOOD CORE CONSTRUCTION FOR FURNITURE BODY, INTERIOR SHELVING, WALL SHELVING:
      - 2.4.1. ALL 3/4" PLYWOOD PANELS SHALL BE CONSTRUCTED AS 7 PLY COMBINATION CORE HARDWOOD PLYWOOD WITH COMPOSITE CROSSBANDS.
      - 2.4.2. ALL 1" PANELS SHALL BE CONSTRUCTED AS 9 PLY COMBINATION CORE HARDWOOD PLYWOOD WITH COMPOSITE CROSSBANDS.
      - 2.4.3. ALL FACE AND BACK PANELS MUST BE PRODUCED FROM DOMESTIC SOURCES, IMPORT PANELS ARE NOT ALLOWED FOR ANY EXPOSED/SEMI-EXPOSED SURFACES.
      - 2.4.4. ALL PANELS SHALL BE MANUFACTURED WITHOUT THE USE OF ADDED UREA FORMALDEHYDE.
      - 2.4.5. PLYWOOD FOR ALL SHELVING SHALL BE 9 PLY 1/2" HARDWOOD PLYWOOD CONSTRUCTED IN SAME MANNER AS 3/4" PLYWOOD.
    - 2.3.2.2. PLYWOOD CORE CONSTRUCTION FOR DOORS/DRAWER HEADS/APPLIED PANELS:
      - 2.5.1. ALL 1/2" PLYWOOD PANELS SHALL BE CONSTRUCTED AS 3 PLY M2 PARTICLEBOARD. ALL FACE AND BACK (EXPOSED AND SEMI-EXPOSED) PANELS MUST BE PRODUCED FROM DOMESTIC SOURCES.
      - 2.5.2. ALL PANELS SHALL BE MANUFACTURED WITHOUT THE USE OF ADDED UREA FORMALDEHYDE.
  - 2.4. HARDWARE AND TRIMS:
    - 2.6.1. DOOR AND DRAWER PULLS: MODERN DESIGN, OFFER COMFORTABLE HAND-GRIP, AND BE SECURELY FASTENED TO DOORS AND DRAWERS WITH SCREWS. ALL PULLS SHALL BE CHROME WIRE TYPE WITH 4" CENTRES AND WITHOUT ESCUTCHEONS. TWO PULLS SHALL BE REQUIRED ON ALL DRAWERS OVER 24" WIDE.
    - 2.6.2. LOCKS:
      - 2.6.2.1. FURNITURE DRAWERS AND HINGED DOORS: PROVIDED WHERE SHOWN ON THE DRAWINGS. EXPOSED SURFACE OF LOCKS SHALL BE DULL CHROME. ALL LOCKS, FOR THE PURPOSE OF COORDINATING KEYING SYSTEMS SHALL BE NATIONAL FIVE TUMBLER.
      - 2.6.2.2. SLIDING GLASS DOORS: LOCKS SHALL BE RATCHET TYPE SLIDING SHOWCASE LOCKS WHICH ARE TO BE OF THE SAME MAKE AS THOSE SELECTED ABOVE.
    - 2.6.3. DOOR CATCHES: ROLLER CATCHES SHALL BE USED ON ALL HINGED DOORS. CATCHES SHALL HAVE A SPRING-LOADED DUAL POLYETHYLENE ROLLER AND ARE PROVIDED WITH A STEEL STRIKE PLATE. DOUBLE DOORS WITH IT LOCKS SHALL HAVE A CATCH ON EACH DOOR. ON CABINETS EQUIPPED WITH LOCKS, THE LEFT HAND DOOR SHALL HAVE A POSITIVE CATCH AND THE RIGHT HAND DOOR SHALL HAVE A ROLLER TYPE CATCH.
    - 2.6.4. DRAWER SLIDES: GRADE 1, 100 POUND BALL BEARING FULL EXTENSION. ALL DRAWERS OVER 36" OR DRAWERS USED FOR HEAVY DUTY PAPER STORAGE SHALL BE GRADE 1, 150 POUND FULL EXTENSION.
    - 2.6.5. LEG SHOES: PROVIDE ON ALL TABLE LETS, TO CONCEAL LEVELING DEVICE. SHOES SHALL BE 2.5" HIGH AND CONSTRUCTED OF PLIABLE, ABS PLASTIC.
    - 2.6.6. SUPPORT STRUTS: TWO, 16ga CHANNEL UPRIGHTS FASTENED TOP AND BOTTOM BY TWO ADJUSTABLE "U" SHAPED SPREADERS, EACH 1/2" INCH BY 1-1/2" BY LENGTH REQUIRED.
    - 2.6.7. SHELF SUPPORT CLIPS: PLASTIC TWIN PIN SEISMIC TYPE, FOR MOUNTING ON INTERIOR OF CABINETS. CLIPS SHALL BE CORROSION RESISTANT AND RETAIN SHELVES FROM ACCIDENTAL REMOVAL. SHELVES ARE TO BE ADJUSTABLE ON 32mm CENTRES.
  - 2.7. GLASS:
    - 2.7.1. 3/4" THICK CLEAR LAMINATED SAFETY GLASS, COMPLYING WITH ASTM C1172, KIND 1T, CONDITION A, TYPE 1, CLASS 1
    - 2.8. COUNTERTOPS: 1" THICK EPOXY RESIN, BLACK MATTE FINISH.
3. FABRICATION
  - 3.1. OPEN LEG TABLES: 1 PIECE PLAIN SLICED SAP MAPLE HARDWOOD CONSTRUCTION, 2-1/4" SQUARE WITH ALL CORNERS EASED SLIGHTLY. LEGS SHALL BE SECURED TO THE APRON FRAME WITH A HEAVY DUTY CORNER BOLT AND A 16ga METAL CORNER BRACE. ALL APRON RAILS SHALL BE 3/4" THICK SOLID PLAIN SLICED SAP MAPLE HARDWOOD. ALL LAB BENCHES ALONG THE PERIMETER ARE REQUIRED TO BE A METAL FRAME TO ENSURE STABILITY FOR MICROSCOPE WORK.
  - 3.2. BASE CABINETS (HINGED DOOR AND DRAWER)
    - 3.2.1. CABINET END PANELS: 3/4" PLAIN SLICED SAP MAPLE WITH 1/2" X 3/4" HARDWOOD FACE.
    - 3.2.2. UNEXPOSED CABINET BACKS: 3/4" GRADE 'C' PLAIN SLICED OR ROTARY SAP MAPLE PLYWOOD, CUPBOARD AND SINK UNITS SHALL BE PROVIDED WITH REMOVABLE BACK PANELS ALLOWING ACCESS TO PLUMBING CHASE. BACK PANELS IN CUPBOARDS SHALL BE REMOVABLE WITHOUT THE USE OF HAND TOOLS OR FASTENERS; SINKS SHALL BE PROVIDED WITH 12" HIGH REMOVABLE BACK ATTACHED WITH 1/8" SCREWS AND WASHERS. BACKS BEHIND SOLID PANEL DOORS SHALL BE 3/4" PLYWOOD AND BACKS SEMI-EXPOSED BEHIND PANEL DOORS SHALL BE 1/2" PLYWOOD.
    - 3.2.3. CABINET BACKS EXPOSED TO VIEW SHALL BE 3/4" PLAIN SLICED SAP MAPLE HARDWOOD PLYWOOD.
    - 3.2.4. CABINET BOTTOMS: 3/4" PLYWOOD. ALL UNITS LESS THAN 36" WIDE SHALL HAVE FULL DEPTH ADJUSTABLE SHELVES, 3/4" PLYWOOD WITH 1/2" RED OAK EDGE BANDING.
    - 3.2.5. ADJUSTABLE SHELVES FOR CABINETS OVER 36" SHALL BE 1" THICK.
    - 3.2.5.1. FURNITURE TOE SPACES SHALL BE 3/4" PLYWOOD, 3-1/2" DEEP X 4" HIGH.
  - 3.3. DOORS AND DRAWER FRONTS: 3/4" PLAIN SLICED SAP MAPLE. SHOWING EDGES SHALL BE EDGE BANDED WITH 1/2" PLAIN SLICED SAP MAPLE HARDWOOD, GRAIN DIRECTION FOR KNEE SPACE FALS- FRONTS TO MATCH ADJACENT. DRAWER FRONT WILL BE MACHINED WITH INTEGRAL ADJUSTERS MORTISED INTO THE BODY FOR FIELD ALIGNMENT.
  - 3.4. DRAWER BOXES: 3/4" SOLID BIRCH, 9 PLY BIRCH OR MAPLE PLYWOOD WITH DOVETAIL JOINTS ALL FOUR CORNERS. BOTTOMS SHALL BE 3/4" GRADE C SAP MAPLE OR BIRCH HARDWOOD PLYWOOD, SET AND GLUED INTO 3/4" GROOVES ON ALL FOUR SIDES. DRAWER HEADS SHALL BE REPLACEABLE IN CASE OF DAMAGE AND SHALL BE AFFIXED WITH WOOD SCREWS.
  - 3.5. WALL HUNG SLIDING DOOR CASES, TOPS AND BOTTOMS MIN. 1" THICK PLAIN SLICED SAP MAPLE HARDWOOD PLYWOOD. SOLID SLIDING GLASS DOORS SHALL BE 3/4" THICK FLOAT GLASS WITH POLISHED EDGES AND GROUND FINGER GROOVE. DOORS SHALL BE SET IN AN ALUMINUM BOTTOM FRAME CONTAINING ROLLER BEARINGS AND HELD IN POSITION WITH AN ALUMINUM GUIDE AT THE TOP OF THE CASES.
4. FINISHES
  - 4.1. CHEMICAL RESISTANT WOOD FINISH: HIGHLY CHEMICAL RESISTANT FINISH THAT IS EQUALLY SUITABLE FOR AN AWI PREMIUM FINISH APPLICATION.
5. INSTALLATION
  - 5.1. FURNITURE INSTALLATION:
    - 5.1.1. FURNITURE SHOULD BE SET WITH COMPONENTS PLUMB, STRAIGHT AND SQUARE, SECURELY ANCHORED TO BUILDING STRUCTURE WITHOUT DISTORTION. CONCEALED SHIMS SHOULD BE USED AS REQUIRED.
    - 5.1.2. CABINETS IN CONTINUOUS RUNS SHOULD BE BOLTED TOGETHER WITH JOINTS FLUSH, UNIFORM, AND TIGHT, WITH AN ALIGNMENT OF ADJACENT UNITS NOT TO EXCEED 1/16".
    - 5.1.3. WALL FURNITURE SHOULD BE SECURED TO SOLID MATERIAL.
    - 5.1.4. FURNITURE AND HARDWARE SHALL BE ADJUSTED AND ALIGNED TO ALLOW FOR ACCURATE CONNECTION OF CONTACT POINTS AND EFFICIENT OPERATION OF DOORS AND DRAWERS WITHOUT ANY WARPING OR BINDING.
  - 5.2. CLEANING:
    - 5.2.1. ENSURE ALL PRODUCTS ARE UNSOILED AND MATCH FACTORY FINISH. REMOVE OR REPAIR DAMAGED OR DEFECTIVE UNITS.
    - 5.2.2. CLEAN ALL FINISHED SURFACES, INCLUDING DRAWERS AND CABINET SHELVES, AND TOUCH UP AS NECESSARY.
    - 5.2.3. COUNTERTOPS SHOULD BE CLEANED AND FREE OF GREASE OR STREAKS.

SPECIFICATION FOR LAB FURNITURE WITH 'ISLAND CORE' NOTED IN 1270 ONLY.  
PART 1 GENERAL

1.01 ALTERNATE PROPOSALS

PROPOSALS ARE INVITED FROM ALTERNATE MANUFACTURERS ONLY IF THEY COMPLY WITH THE MINIMUM DESIGN REQUIREMENTS AND THE MINIMUM PERFORMANCE REQUIREMENTS. A NOTARIZED LETTER STATING FULL COMPLIANCE MUST BE INCLUDED IN ALTERNATE PROPOSALS SIGNED BY AN OFFICER OF THE MANUFACTURER TO ENSURE COMPLIANCE.

1.02 SYSTEM DESIGN REQUIREMENTS

- A. MODULAR DIMENSIONED SYSTEM OF CORE AND PANEL STYLE SUPPORT STRUCTURES AND TABLES.
- B. CORES: SUPPORT STRUCTURES FOR TABLES, STORAGE UNITS AND SHELVES.
1. MODULAR UNITS SHALL BE SUITABLE FOR ISLAND CONFIGURATIONS.
2. CORES CAN BE SUPPORTED WITH FLOOR PLATES BOLTED TO FLOOR OR WITH STRUCTURAL TABLES.
3. EQUIPPED WITH EASY TO REMOVE ACCESS PANELS WITH INTEGRAL FASTENERS.
- C. TABLES: MODULAR, INTERCHANGEABLE WORK SURFACE SUPPORT STRUCTURES IN FIXED HEIGHT CONFIGURATIONS.
1. FIXED HEIGHT TABLES INCLUDE TWO-LEG, STRUCTURAL, AND EXTENDED FRAME CONFIGURATIONS.
2. CASTER AND LEVELER OPTIONS ARE AVAILABLE FOR FIXED HEIGHT TABLES. ALL OTHER TABLES ARE AVAILABLE WITH LEVELERS ONLY.
- D. SYSTEM REQUIREMENTS:
  1. INDEPENDENTLY SUPPORT WORK SURFACES, UNDER-COUNTER CABINETS, AND OVERHEAD STORAGE COMPONENTS.
  2. STRUCTURAL COMPONENTS ARE ESSENTIALLY SELF-SUPPORTING AND INDEPENDENT OF THE BUILDING STRUCTURE.
  3. CABINET FASTENING DEVICES CANNOT BE ACCIDENTALLY RELEASED FROM FRAMING SYSTEM. INTENTIONAL RELEASE CAN BE EASILY ACCOMPLISHED WITHOUT DISTURBING THE CABINET CONTENTS BY SIMPLY LOOSENING TWO BOLTS.
  4. SUSPENDED BASE CABINETS CAN BE REMOVED WITHOUT REMOVAL OF THE WORK SURFACE.
  5. WALL CABINETS ARE ADJUSTABLE VERTICALLY AND Laterally AND CAN BE REMOVED WITHOUT THE USE OF TOOLS.
  6. SUSPENDED BASE CABINETS CAN BE RELOCATED WHILE FULLY LOADED AND INSTALLED IN ANY POSITION BETWEEN TABLE LEGS.
  7. VERTICAL HEIGHT OF TABLE WORK SURFACES, WALL CASES AND SHELVES CAN BE ADJUSTED WITH SIMPLE, BUT POSITIVE MECHANISMS.

1.03 SUBMITTALS

A. SHOP DRAWINGS: AS PER 'SPECIFICATION FOR LAB FURNITURE'

PART 2 PRODUCTS

2.01 MANUFACTURER

A. DESIGN, MATERIALS, CONSTRUCTION AND FINISH OF CASEWORK SPECIFIED IS THE MINIMUM ACCEPTABLE STANDARD OF QUALITY FOR ADAPTABLE LABORATORY CASEWORK. THE BASIS OF THIS SPECIFICATION IS HAMILTON SCIENTIFIC, 1716 LAWRENCE DRIVE, STE 1, DE PERE, WI 54115. ALTERNATIVE APPROVED MANUFACTURERS INCLUDE BEDCOLAB AND CANADIAN SCIENTIFIC.

2.02 TABLES

A. GENERAL REQUIREMENTS FOR TABLES:

1. WORK SURFACE SUPPORT FRAME: 11 GAUGE COLD ROLLED STEEL TUBING. CABINET SUPPORT CHANNELS: 14 GAUGE COLD ROLLED STEEL. WELD MEMBERS USING THE INERT GAS PROCESS.
2. SUPPORT ARMS:
  - A. CANTILEVER SUPPORT ARMS: 11 GAUGE COLD ROLLED STEEL.
  - B. END CAPS: FLAME RESISTANT ABS PLASTIC, COLOR MATCHED.
  - C. FINISH: CHEMICAL RESISTANT POWDER PAINT FINISH IN MANUFACTURER'S STANDARD COLOR TO BE SELECTED.

B. STRUCTURAL TABLE BASE:

1. NOMINAL BASE DIMENSIONS:
  - A. WIDTH: AS NOTED ON DRAWINGS
  - B. DEPTH: AS NOTED ON DRAWINGS
  - C. HEIGHT: 29" OR 36" AS NOTED ON DRAWINGS
2. CAPABLE OF ATTACHING TO AND PROVIDING SUPPORT FOR CORES AND PANELS.
3. LEG MEMBERS SHALL HAVE TWO FINGER LOCKING HOOKS.
4. BASE UNIT SHALL PROVIDE SUPPORT CHANNELS FROM WHICH SUSPENDED CABINETS CAN BE HUNG AND ADJUSTED HORIZONTALLY. 29" DEEP BASES SHALL ALLOW SUSPENDED CABINETS TO BE HUNG DIRECTLY IN FRONT OF THE LEG MEMBER FOR COMPLETE CABINET UTILIZATION (E.G. 48" SUSPENDED CABINET HANGING FROM 48" ADDON TABLE BASE). 29" DEEP BASES SHALL ALLOW CABINETS TO STRADDLE LEG MEMBERS, RESULTING IN SUSPENDED CABINETS HANGING FROM TWO ADJACENT TABLE BASES. 29" DEEP BASES SHALL ALLOW CABINET TO BE HUNG ONLY BETWEEN TABLE ARM SUPPORTS.
5. WEIGHT CAPACITY: WORK SURFACE PLUS 600 POUNDS.

C. VED HEIGHT TABLE:

1. NOMINAL BASE DIMENSIONS:
  - A. WIDTH: AS NOTED ON DRAWINGS
  - B. DEPTH: AS NOTED ON DRAWINGS
  - C. HEIGHT: 29" OR 36" AS NOTED ON DRAWINGS
2. FREESTANDING TABLE CAPABLE OF SUPPORTING SUSPENDED BASE CABINETS.
3. RECTANGULAR AND 90 CORNER CONFIGURATIONS.
4. STRUCTURAL MEDIUM STY PANEL. BOX CONSTRUCTION OF 18 GAUGE COLD ROLLED STEEL.
5. LEG UPRIGHT: 18 GAUGE ROLLED STEEL.
6. FEET: DIE CAST ALUMINUM.
7. WEIGHT CAPACITY: WORK SURFACE PLUS 600 POUNDS.

2.03 SUPPORT STRUCTURES

- A. GENERAL REQUIREMENTS FOR CORES AND PANEL TYPE SUPPORT STRUCTURES:
  1. RISER UPRIGHTS: 18 GAUGE ROLLED STEEL SUPPLIED WITH LEVELING GUIDES.
  2. FRAMES: ROLLED STEEL, RESISTANCE WELDED, FRAME MEMBERS AND TIE RAIL BRACKETS: 16 GAUGE; CORNER GUSSETS: 14 GAUGE.
  3. TIE RAILS: 18 GAUGE COLD ROLLED STEEL.
  4. BASE COVER: 18 GAUGE COLD ROLLED STEEL.
  5. SLOTTED ADJUSTMENT PUNCHED INTO RISER UPRIGHT: NOTCHED FOR ONE INCH ADJUSTMENT OF COMPONENTS SUPPORTED OFF RISER UPRIGHT.
  6. RISER CAP: FLAME RESISTANT ABS PLASTIC, COLOR MATCHED.
  7. CLOSURE PANELS: 20 GAUGE COLD ROLLED STEEL.
  8. CLOSURE PANEL FASTENERS: "DUAL LOCK".
  9. ADJUSTABLE FLOOR CLAMPS: TWO PER CORE OR FRAME, 80-55-06 DUCTILE CAST IRON.
  10. PLUG CAPS: ABS FLAME RETARDANT PLASTIC, COLOR MATCHED.
- B. ISLAND CORES:
  1. NOMINAL DIMENSIONS:
    - A. WIDTH: AS NOTED ON DRAWINGS
    - B. DEPTH: 12"
    - C. HEIGHT: 84"
  2. SERVICE AREA: MINIMUM 5-1/2" x 18-1/4" BETWEEN UPRIGHTS AND THE RAILS FOR SERVICE INSTALLATION.
  3. FLOOR CLAMPS: #8559 DUCTILE CAST IRON, SUPPLIED WITH THREE RAWL BOLTS FOR FLOOR ANCHORAGE.
  4. CORE SHALL BE CAPABLE OF HAVING REMOVABLE UPRIGHTS AND REAGENT SHELF, AND BE CAPABLE OF HAVING THESE ITEMS ADDED AFTER INSTALLATION.
  5. CORE, WHEN SECURED TO FLOOR, SHALL BE CAPABLE OF SUPPORTING "WORST CASE" LOADING CONDITIONS WITHOUT ENDRIGGERS.
  6. HANGING COMPONENTS SHALL BE ADJUSTABLE VERTICALLY IN 1" INCREMENTS.
  7. CLOSURE PANELS SHALL SNAP ON WITHOUT TOOLS AND SHALL BE REMOVABLE WITHOUT REMOVAL OF CANTILEVER FRAMES OR SUSPENDED CABINERY.
  8. INSTALLED 84" HIGH CORE SHALL SUPPORT FOLLOWING COMPONENTS, EACH LOADED TO ITS MAXIMUM RATING FOR A TOTAL OF 2 820 LBS:
    - A. INSIDE AND OUTSIDE SHELVES - 6", 8", 12" - 180 LBS, 18" - 130LBS, 24" - 100LBS.
    - B. TWO CANTILEVER WORK SURFACES, 600 LBS EACH SIDE.

C. SERVICE COLUMN:

1. NOMINAL DIMENSIONS:
  - A. WIDTH: 18"
  - B. DEPTH: 6"
  - C. HEIGHT: 86"
2. UPRIGHTS: 20 GAUGE COLD ROLLED STEEL.
3. ANGLES: 18 GAUGE COLD ROLLED STEEL.
4. COLUMN SHALL BE CAPABLE OF ENCLOSING SERVICES WHICH ENTER THROUGH THE CENTER OF AN ISLAND CORE.
5. COLUMN SHALL BE CAPABLE OF BEING CONSTRUCTED AROUND EXISTING SERVICES.
6. CLOSURE PANELS SHALL SNAP ON WITHOUT TOOLS.

2.04 SHELVES

- A. GENERAL REQUIREMENTS FOR SHELVES:
  1. SHELVES, HAT CHANNEL SUPPORTS, AND SEPARATE SHELF LIP: 18 GAUGE ROLLED STEEL.
  2. SHELF BRACKETS: 11 GAUGE ROLLED STEEL.
  3. VERTICAL SHELF ADJUSTMENT, ONE INCH INCREMENTS.
  4. DEPTH AND WEIGHT CAPACITY: 12" = 180 LBS., 18" = 130 LBS.

2.05 SUSPENDED BASE CABINETS

A. DESIGN REQUIREMENTS, PERFORMANCE REQUIREMENTS, MATERIALS, FABRICATION, AND HARDWARE SHALL COMPLY IN ALL RESPECTS WITH FIXED WOOD CASEWORK SPECIFICATIONS IN THIS SECTION.

2.06 FINISHES

- A. METAL FINISH:
  1. PREPARATION: SPRAY CLEAN METAL WITH A HEATED CLEANER/PHOSPHATE SOLUTION. PRE-TREAT WITH IRON PHOSPHATE SPRAY, WATER RINSE, AND NEUTRAL FINAL SEAL. IMMEDIATELY DRY IN HEATED OVENS, GRADUALLY COOLED. PRIOR TO APPLICATION OF FINISH.
  2. APPLICATION: ELECTROSTATICALLY APPLY URETHANE POWDER COAT OF SELECTED COLOR AND BAKE IN CONTROLLED HIGH TEMPERATURE OVEN TO ASSURE A SMOOTH, HARD SATIN FINISH. SURFACES SHALL HAVE A CHEMICAL RESISTANT, HIGH GRADE LABORATORY FURNITURE QUALITY FINISH OF THE FOLLOWING THICKNESS:
    - A. EXTERIOR AND INTERIOR EXPOSED SURFACES: 1.5 MIL AVERAGE AND 1.2 MIL MIN.
    - B. BACKS OF CABINETS AND OTHER SURFACES NOT EXPOSED TO VIEW: 1.2 MIL AVERAGE.

B. CABINET SURFACE FINISH TESTS:

A. CASEWORK CONSTRUCTION AND PERFORMANCE CHARACTERISTICS SHALL BE IN FULL COMPLIANCE WITH SEFA 8 STANDARDS. AT THE OWNER'S REQUEST, INDEPENDENT, THIRD PARTY PERFORMANCE TESTING MUST BE SUBMITTED VALIDATING COMPLIANCE AND ADHERES TO THE FINISH SPECIFICATIONS.

PART 3 EXECUTION

3.01 INSTALLATION

A. FURNITURE SYSTEM INSTALLATION:
 

1. INSTALL SYSTEM IN STRICT ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.
2. SET SYSTEM COMPONENTS PLUMB, SQUARE, AND STRAIGHT WITH NO DISTORTION AND SECURELY ANCHORED TO BUILDING STRUCTURE. SHIM AS REQUIRED USING CONCEALED SHIMS.

B. INSTALL SUSPENDED CASEWORK, WORK SURFACES, SINKS AND ACCESSORY ITEMS

3.02 ADJUSTING

A. REPAIR OR REMOVE AND REPLACE DEFECTIVE WORK, AS DIRECTED BY DESIGNER UPON COMPLETION OF INSTALLATION.

3.03 CLEANING

A. CLEAN SHOP FINISHED LABORATORY FURNITURE SYSTEM SURFACES AND TOUCH UP AS REQUIRED.

3.04 PROTECTION OF FINISHED WORK

A. PROVIDE ALL NECESSARY PROTECTIVE MEASURES TO PREVENT EXPOSURE OF LABORATORY FURNITURE SYSTEM AND ATTACHED COMPONENTS FROM EXPOSURE TO OTHER CONSTRUCTION ACTIVITY.

B. ADVISE CONTRACTOR OF PROCEDURES AND PRECAUTIONS FOR PROTECTION OF MATERIAL, INSTALLED LABORATORY FURNITURE SYSTEM, CASEWORK AND FIXTURES FROM DAMAGE BY WORK OF OTHER TRADES.

Dimensions on drawing for estimating purposes only. It is the responsibility of each Contractor and Sub-Contractor to check all dimensions and conditions on site prior to implementation.

KEY PLAN



N°	REVISION	DATE
3	ISSUED FOR TENDER	14/02/2014
2	ISSUED FOR 99% REVIEW	27/11/2013
1	ISSUED FOR REVIEW	08/11/2013
REVISIONS		

MUSEUM OF NATURE  
NATURAL HERITAGE  
CAMPUS

1440 PINK ROAD, GATINEAU

SPECIFICATIONS

scale:	NTS
drawn:	RB/LR
reviewed:	LR
date:	NOV 2013

project no.: RDRPROJND

Dimensions on drawing for estimating purposes only. It is the responsibility of each Contractor and Sub-Contractor to check all dimensions and conditions on site prior to implementation.

KEY PLAN



N°	REVISION	DATE
4	ISSUED FOR TENDER	14/02/2014
3	ISSUED FOR COORDINATION	11/12/2013
2	ISSUED FOR 99% REVIEW	27/11/2013
1	ISSUED FOR REVIEW	08/11/2013

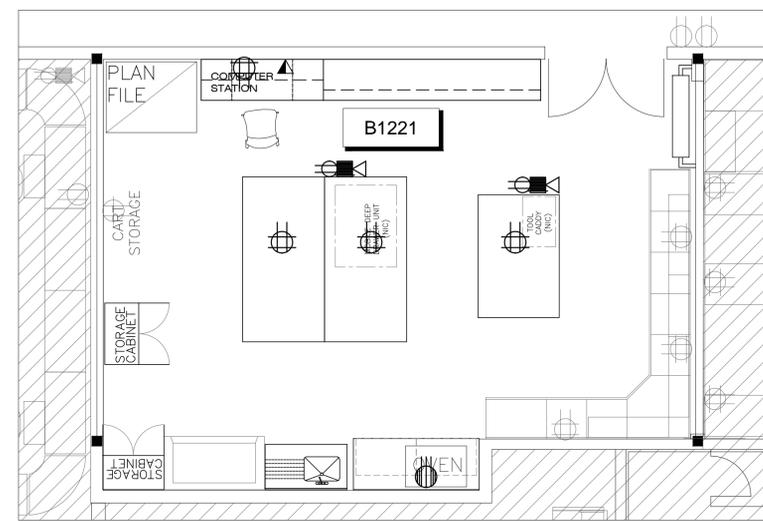
MUSEUM OF NATURE  
NATURAL HERITAGE  
CAMPUS  
1440 PINK ROAD, GATINEAU

VOICE AND DATA PLAN

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drawn:	RB/LR
reviewed:	LR
date:	NOV_2013

project no.: RDPROJND

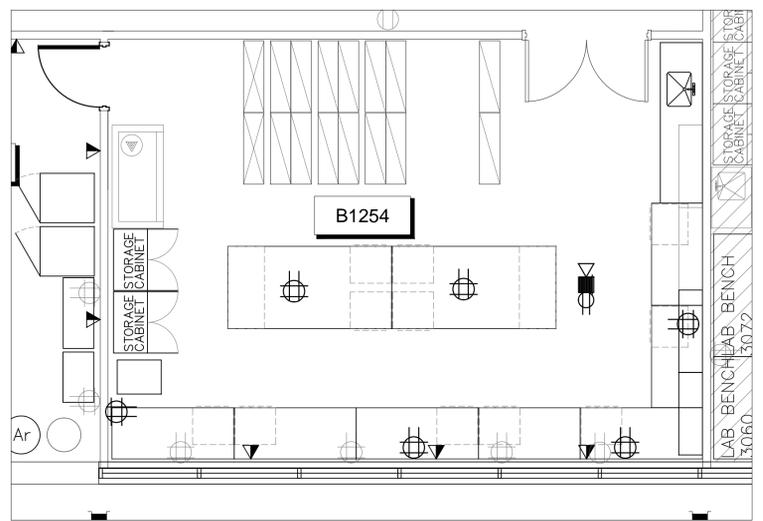
F-401



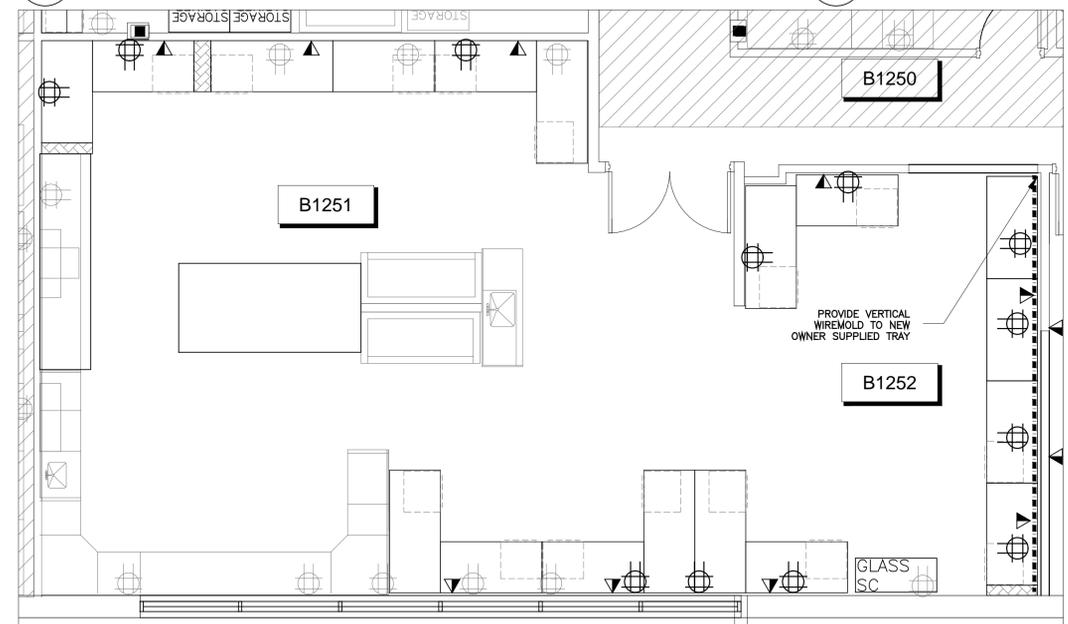
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F401 SCALE: 1:50



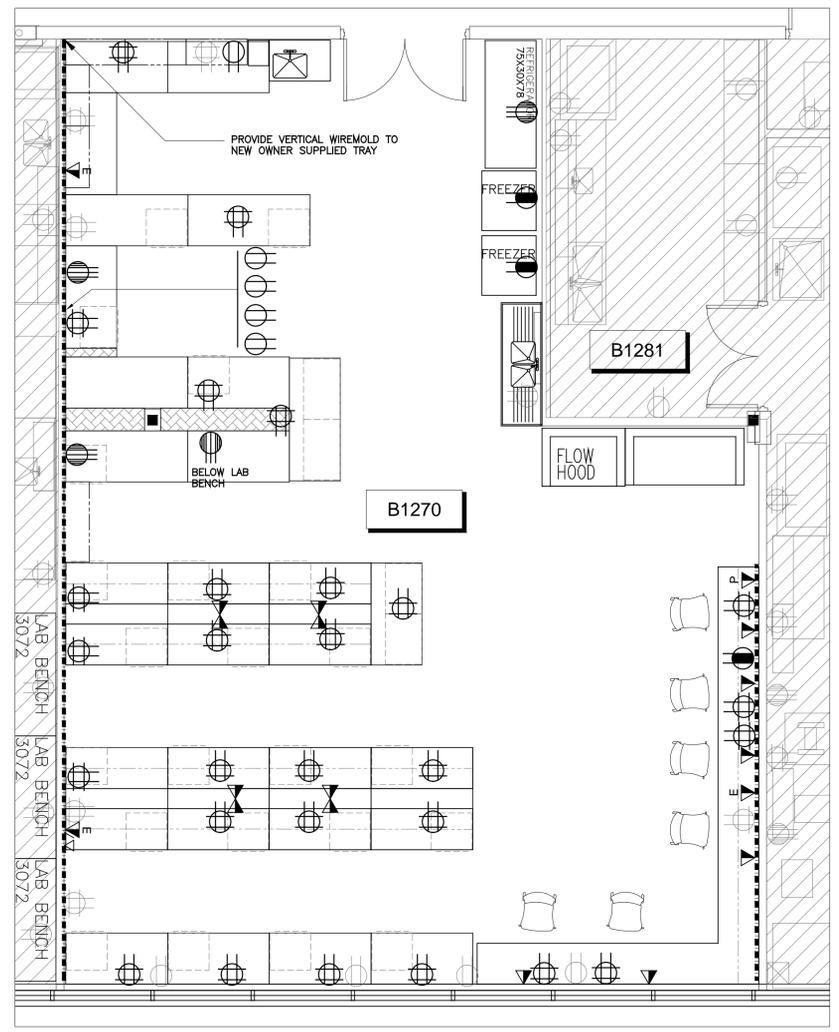
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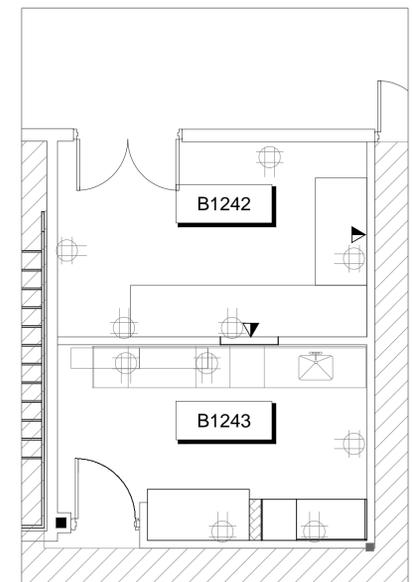
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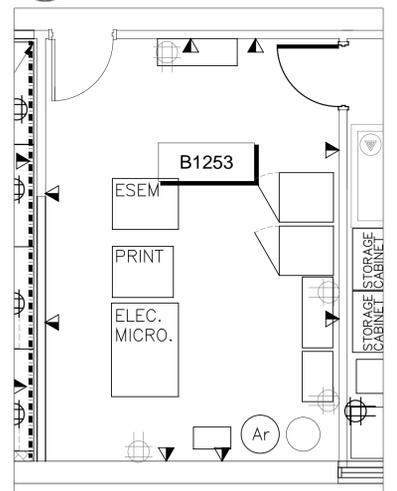
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F401 SCALE: 1:50



05 VOICE AND DATA PLAN: B1270  
F401 SCALE: 1:50



06 VOICE AND DATA PLAN: B1242 & B1243  
F401 SCALE: 1:50



07 VOICE AND DATA PLAN: B1253  
F401 SCALE: 1:50

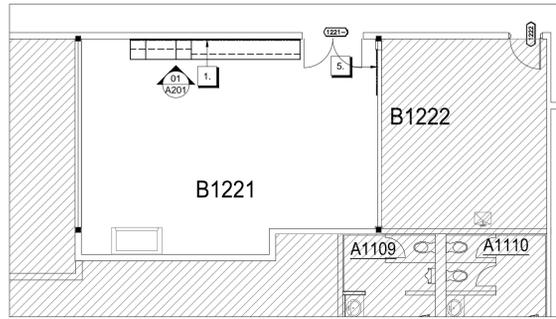
POWER, VOICE, & DATA LEGEND  
NOTE: FOR INFORMATION ONLY. REFER TO ENGINEERS' DRAWINGS FOR CIRCUITING AND SPECIFICATION DETAILS.

**POWER**

- ⊕ EXISTING QUADRAPLEX OUTLET TO REMAIN.
- ⊕ EXISTING SPECIAL RECEPTACLE TO REMAIN.
- ⊕ NEW QUADRAPLEX OUTLET TO BE INSTALLED ABOVE LAB BENCH.
- ⊕ NEW SPECIAL RECEPTACLE TO BE INSTALLED ABOVE LAB BENCH OR AT HEIGHT TO SERVICE EQUIPMENT.
- ⊕ NEW DUPLEX ELECTRICAL RECEPTACLE.
- ⊕ NEW DEDICATED DUPLEX ELECTRICAL RECEPTACLE.
- NEW SURFACE MOUNTED RACEWAY AS SPECIFIED ON ELECTRICAL DRAWINGS.

**VOICE AND DATA**

- ⊕ NEW DATA OUTLET FOR COMPUTER UNLESS OTHERWISE NOTED OUTLETS TO BE LOCATED ABOVE COUNTER/LAB BENCH UNLESS OTHERWISE NOTED.
- \*P\* INDICATES DATA OUTLET FOR PRINTER
- \*E\* INDICATES ETHERNET JACK
- △ NEW VOICE OUTLET. INSTALLATION HEIGHT TO BE ABOVE COUNTER/LAB BENCH



01 PARTITION PLAN  
A101 SCALE: 1:100

**GENERAL NOTES FOR PARTITION PLAN:**

1. THE CONTRACTOR SHALL ENSURE THAT ALL WORK EXECUTED UNDER THIS CONTRACT IS IN KEEPING WITH ALL APPLICABLE NATIONAL, PROVINCIAL AND MUNICIPAL CODES.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL WORK SPECIFIED ON ALL DRAWINGS AND SPECIFICATIONS.
3. THE CONTRACTOR SHALL SUPPLY ALL NECESSARY MATERIALS AND LABOUR REQUIRED TO COMPLETE THE WORK OF THIS CONTRACT.
4. THE CONTRACTOR SHALL VERIFY ALL DRAWINGS, SPECIFICATIONS, DIMENSIONS, MEASUREMENTS AS WELL AS SITE CONDITIONS, AND SHALL NOTIFY THE PROJECT MANAGER OF ALL DISCREPANCIES AND/OR OMISSIONS PRIOR TO BEGINNING ANY WORK. REFER TO THE ENGINEERING DRAWINGS FOR ALL MECHANICAL AND ELECTRICAL REQUIREMENTS AND SPECIFICATIONS.
5. ALL DIMENSIONS ARE METRIC IN THIS DRAWING. ALL NEW PARTITIONS ARE CENTERED ON CEILING GRID UNLESS OTHERWISE NOTED. ALL DIMENSIONS ARE TAKEN FACE TO FACE OF PARTITIONS OR COLUMNS UNLESS OTHERWISE NOTED.
6. ALL NEW DOOR FRAMES ARE TO BE INSTALLED 100mm FROM PARTITION UNLESS NOTED OTHERWISE.
7. THE CONTRACTOR SHALL PROTECT FINISHED AND UNFINISHED WORK OF THIS CONTRACT AND/OR WORK OF OTHERS ON SITE UNTIL WORK HAS BEEN COMPLETED AND ACCEPTED.
8. THE CONTRACTOR SHALL PROTECT THE AREA OUTSIDE THE CONTRACT AREA FROM DEBRIS AND DUST RESULTING FROM RENOVATIONS BY INSTALLING A TEMPORARY BARRIER FROM FLOOR TO CEILING.
9. THE CONTRACTOR SHALL PATCH AND REPAIR ALL WALL, FLOOR AND CEILING SURFACES AFFECTED BY CONSTRUCTION. FINISH AS PER FINISHES PLANS.
10. CHALK ALL NEW PARTITION LOCATIONS AND OBTAIN APPROVAL OF PARTITION LAYOUT FROM DESIGNER PRIOR TO INSTALLING METAL TRACKS AND STUDS.
11. THIS IS AN OCCUPIED BUILDING. CONTRACTOR IS REQUIRED TO NOTIFY BUILDING MANAGEMENT & PROJECT MANAGER MINIMUM 24 HOURS PRIOR TO STARTING ANY AFTER HOURS WORK AND WORK THAT CREATES NOISE & DIRT. CLEANING PUBLIC ACCESS SPACE IS REQUIRED AT THE END OF EACH WORKING SHIFT.
12. CONTRACTOR IS TO COORDINATE WITH MECHANICAL AND ELECTRICAL DRAWINGS AND REVIEW SITE CONDITIONS TO IDENTIFY JUNCTION BOXES, DUCTWORK, ETC., THAT RUN IN LINE WITH NEW PARTITIONS THAT EXTEND TO CEILING SLAB. CONTRACTOR TO OFFSET PARTITIONS WITHIN THE CEILING PLENUM AS REQUIRED TO SUIT THESE INTERFERENCES.

**PARTITION PLAN**

**PARTITIONS**

EXISTING PARTITION TO REMAIN  
PARTITION TYPE W1: 1 HOUR FIRE RATED PARTITION  
SLAB TO SLAB CONSTRUCTION:  
1 LAYER 15.9mm TYPE "X" GYPSUM WALL BOARD  
92mm METAL STUDS @ 400mm O.C. SOUND ATTENUATION BLANKETS  
INSTALLED WITHIN THE STUD CAVITY  
1 LAYER 15.9mm TYPE "X" GYPSUM WALL BOARD.  
ALL WALL BOARD JOINTS TAPED AND SANDED.  
CONTRACTOR TO SEAL WHERE THE PARTITION MEETS ADJACENT  
WALL, FLOOR SLAB, AND CEILING SLABS AND AT ALL SERVICE  
PENETRATIONS WITH FIRE CAULKING.

**DOORS**

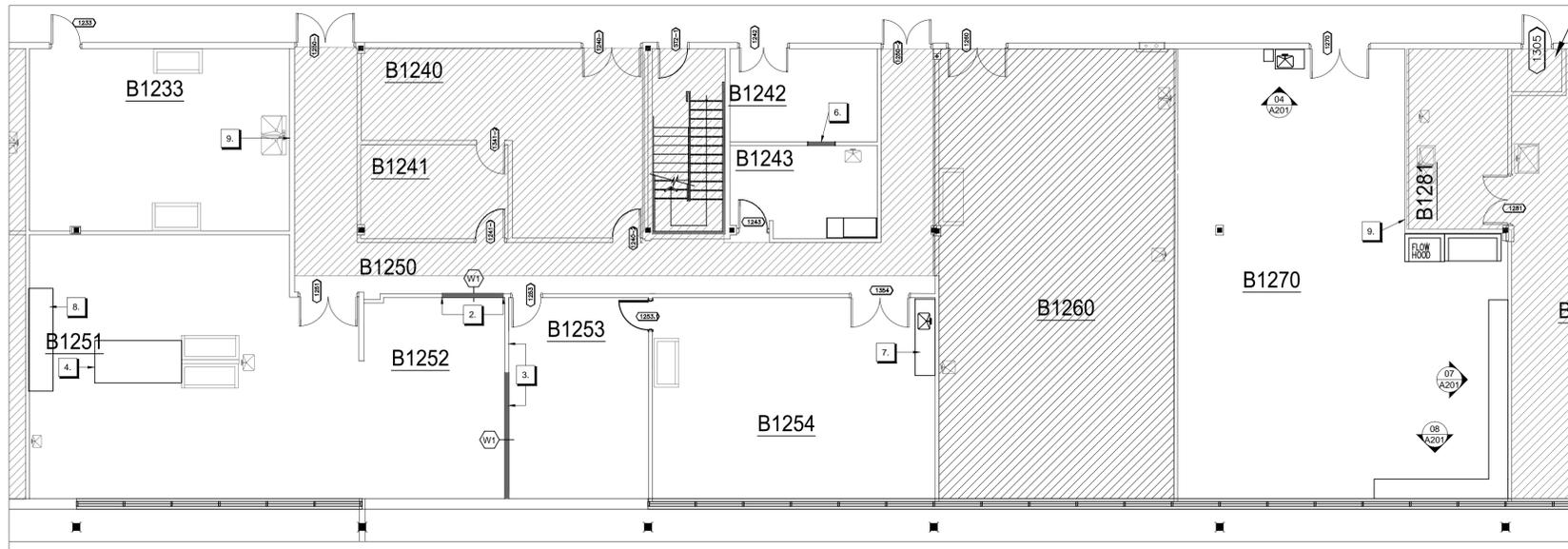
NEW SINGLE WIDTH DOOR C/W FRAME AND  
HARDWARE. REFER TO DOOR AND HARDWARE  
SCHEDULE FOR DETAILS.

DOOR NUMBER FOR INFORMATION AND  
COORDINATION PURPOSES ONLY.

EXISTING DOORS TO REMAIN

**PLAN NOTES**

1. INSTALL SURFACE MOUNTED PLYWOOD BLOCKING TO SUPPORT NEW WALL MOUNTED UPPER CABINETS. PLYWOOD BLOCKING TO BE PAINTED TO MATCH WALL COLOUR.
2. INFILL PARTITION WHERE DOOR WAS REMOVED DURING DEMOLITION ACTIVITIES. CONSTRUCTION TO MATCH EXISTING (1 HOUR FIRE RATED).
3. NEW PARTITION TO ALIGN WITH EXISTING.
4. NEW COUNTERTOP WITH POST-FORMED BULLNOSE EDGE TO BE INSTALLED TO REPLACE EXISTING REMOVED WITH SINK. PLASTIC LAMINATE FINISH.
5. SURFACE MOUNTED BLOCKING TO BE PROVIDED FOR NEW WALL MOUNTED WRAP PAPER DISPENSER. BLOCKING TO BE PAINTED TO MATCH WALL COLOUR.
6. INFILL PARTITION WHERE REVOLVING DARK ROOM DOOR AND RELATED PARTITION CONSTRUCTION WAS REMOVED WITH CONSTRUCTION TO MATCH EXISTING (1 HOUR FIRE RATED). REPAIR ADJACENT SURFACES AFFECTED BY DEMOLITION ACTIVITIES. FINISH AS PER FINISHES PLAN.
7. NEW COUNTERTOP WITH POST-FORMED BULLNOSE EDGE. C/W 100mm BACKSPLASH TO BE INSTALLED. REFER TO ENGINEER'S DRAWINGS FOR SPECIFICATIONS FOR NEW SINGLE BOWL SINK.
8. NEW 76mm DEEP COUNTERTOP WITH POST-FORMED BULLNOSE EDGE C/W 100mm BACKSPLASH TO BE INSTALLED AT EXISTING MILLWORK.
9. RELOCATED WATER DE-IONIZING SYSTEM (WALL MOUNTED) TO BE INSTALLED. PROVIDE WATER RESISTANT BACKING AS REQUIRED. REFER TO ENGINEER'S DRAWINGS FOR ELECTRICAL AND MECHANICAL REQUIREMENTS.
10. CONTRACTOR TO REPLACE CEILING GRID AS REQUIRED WHERE AFFECTED BY DEMOLITION AND CONSTRUCTION ACTIVITIES. CONTRACTOR TO SUPPLY AND INSTALL NEW CEILING TILES AS REQUIRED AND RESEAL THE CEILING TILES.



02 PARTITION PLAN  
A101 SCALE: 1:100

DOOR & HARDWARE SCHEDULE - 19TH FLOOR											
DOOR NO.	FROM	TO	SWING	DOOR TYPE	DOOR DIMENSIONS (w x h x d)	CONSTRUCTION	HARDWARE	FRAME TYPE	FRAME CONSTRUCTION	FINISH DOOR / FRAME	NOTES/COMMENTS
1253.1	1254	1253	RH	1	915X2134X45	HOLLOW METAL 3/4 HOUR FACTORY LABELLED	HG-01	A	PRESSED STEEL 3/4 HOUR FACTORY LABELLED	P-2 / P-2	NEW FACTORY LABELLED 3/4 HOUR FIRE RATED DOOR

**DOOR & HARDWARE LEGEND**

THE CONTRACTOR IS RESPONSIBLE FOR THE SUPPLY & INSTALLATION OF THE FOLLOWING:

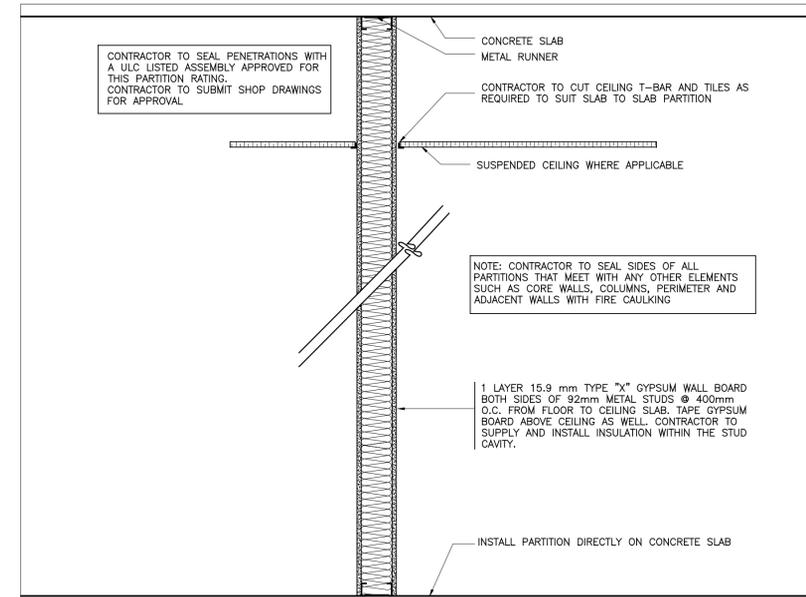
- HARDWARE**  
HG-01
- LOCKSET: TO MATCH EXISTING ADJACENT HARDWARE (MORTISED SARGENT MULTI-FUNCTION)
  - HINGES: BALL BEARING STANDARD WEIGHT FULL MORTISE HINGE, STANLEY CB179 OR APPROVED EQUIVALENT
  - HEAVY DUTY DOOR CLOSER: ULC LISTED, TO MATCH BUILDING STANDARD
  - AUTOMATIC DOOR BOTTOM: KN CROWDER MORTISED TYPE, BLACK NEOPRENE SEAL
  - KICKPLATE: STAINLESS STEEL FINISH, 305mm TALL X WIDTH OF DOOR, INSTALLED ON BOTH SIDES OF THE DOOR
  - DOOR STOP: DOME STYLE GSH 200B, C26D FINISH OR APPROVED EQUIVALENT

**FINISHES:**  
P-2 — DOOR AND FRAME PAINT COLOUR TO MATCH EXISTING, SATIN FINISH.

**GENERAL NOTES**

1. NEW DOOR, FRAME & HARDWARE TO BE SUPPLIED, INSTALLED & FINISHED AS PER DOOR & HARDWARE SCHEDULE. ENSURE PROPER FUNCTION OF ALL DOOR & HARDWARE COMPONENTS.
2. REFER TO PARTITION TYPES TO DETERMINE FRAME THROAT SIZE.
3. IF FLOOR SLAB IS UNEVEN, SHIM DOOR FRAMES TO SUIT AS REQUIRED & PAINT SHIM TO MATCH FRAME.
4. ALL FRAMES TO BE PREPARED TO RECEIVE ALL HARDWARE NOTED.
5. DOOR CLOSERS TO BE ADJUSTED SO THAT THEY REQUIRE NO MORE THAN 4.9 POUNDS/22 NEWTONS OF FORCE TO OPEN.

03 DOOR AND HARDWARE SCHEDULE  
A101



04 WALL SECTION: TYPE W1  
A101 SCALE: 1:10

Dimensions on drawing for estimating purposes only. It is the responsibility of each Contractor and Sub-Contractor to check all dimensions and conditions on site prior to implementation.

KEY PLAN



**IMPORTANT:**  
CMN PEST MANAGEMENT: ALL MATERIALS, TOOLS, AND EQUIPMENT TO BE USED TO COMPLETE THE SCOPE OF THIS PROJECT MUST BE SUBMITTED TO THE MUSEUM FOR FREEZING FOR A PERIOD OF SEVEN (7) DAYS OR FOR VISUAL INSPECTION. THIS INSPECTION AND/OR FREEZING PERIOD MUST BE ACCOUNTED FOR WITHIN THE PROJECT CONSTRUCTION SCHEDULE. ENSURE DELIVERY SCHEDULES ACCOMMODATE THIS REQUIREMENT AND DO NOT LEAD TO DELAYS.



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2	ISSUED FOR 99% REVIEW	05/11/2013
1	ISSUED FOR 66% REVIEW	16/10/2013
N*	REVISION	DATE

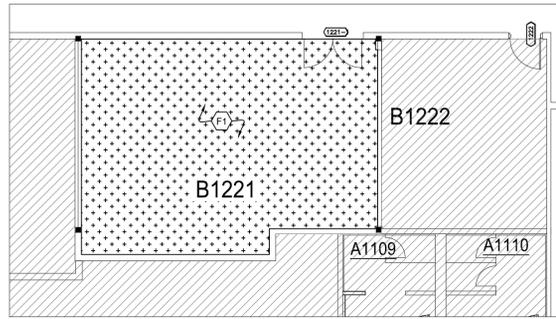
MUSEUM OF NATURE  
NATURAL HERITAGE  
CAMPUS

1440 PINK ROAD, GATINEAU

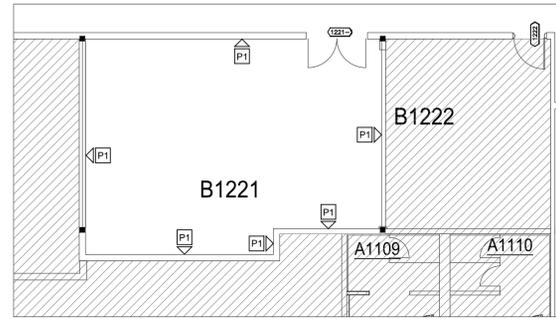
PARTITION PLAN  
DOOR & HARDWARE  
WALL SECTION

scale:	AS NOTED
drawn:	LR/RB
reviewed:	LR
date:	NOV 2013

project no.: RDPROJND



01 FLOOR FINISHES PLAN  
A102 SCALE: 1:100



02 WALL FINISHES PLAN  
A102 SCALE: 1:100

**FINISHES PLAN**

**FLOOR FINISHES**

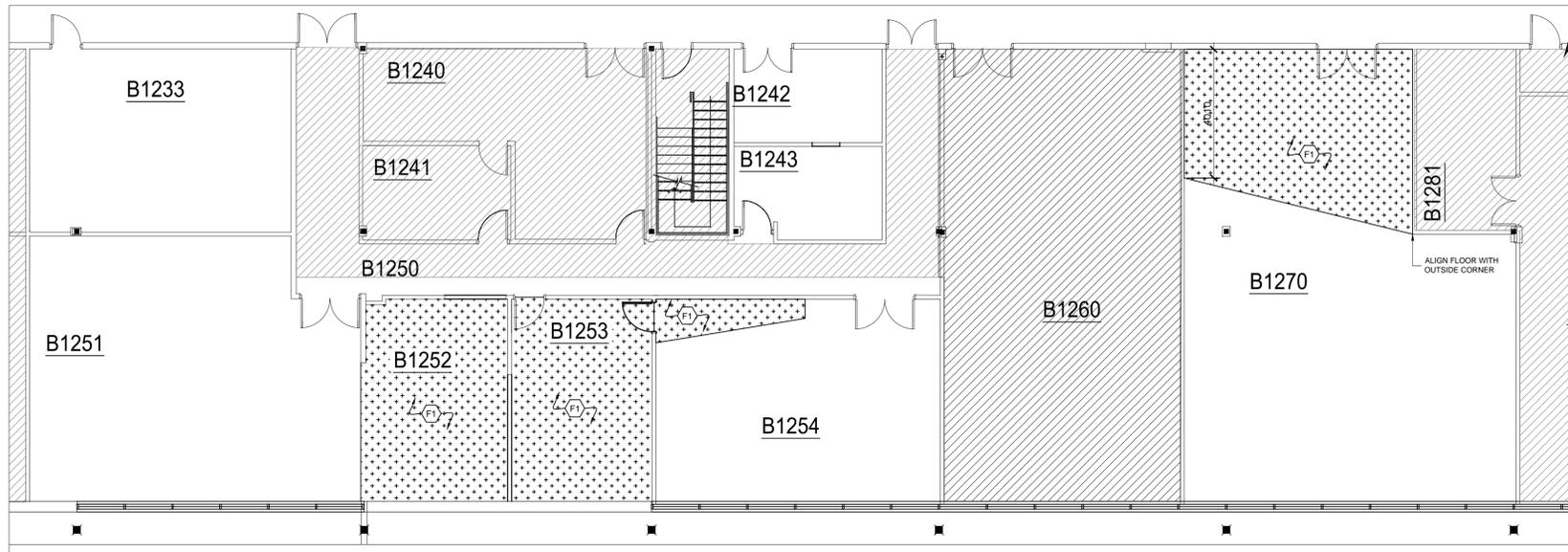
NEW RESILIENT FLOOR FINISH:  
MANUFACTURER: FORBO  
COLLECTION: MARMOLEUM REAL  
COLOUR: 3250 LOAM GROOVE

CONTRACTOR TO REMOVE EXISTING RESILIENT FLOOR FINISH CW COVE BASE IN AREA AS REQUIRED. SCRAPE FLOOR AND MAKE READY TO RECEIVE NEW FLOOR FINISH PRIOR TO INSTALLATION. CHALK FLOOR PATTERN FOR REVIEW AND APPROVAL BY DESIGNER PRIOR TO INSTALLATION OF FLOORING INSERTS. COVE BASE TO MATCH EXISTING CW ANODIZED ALUMINUM EDGE PROTECTION AT TOP OF BASE.

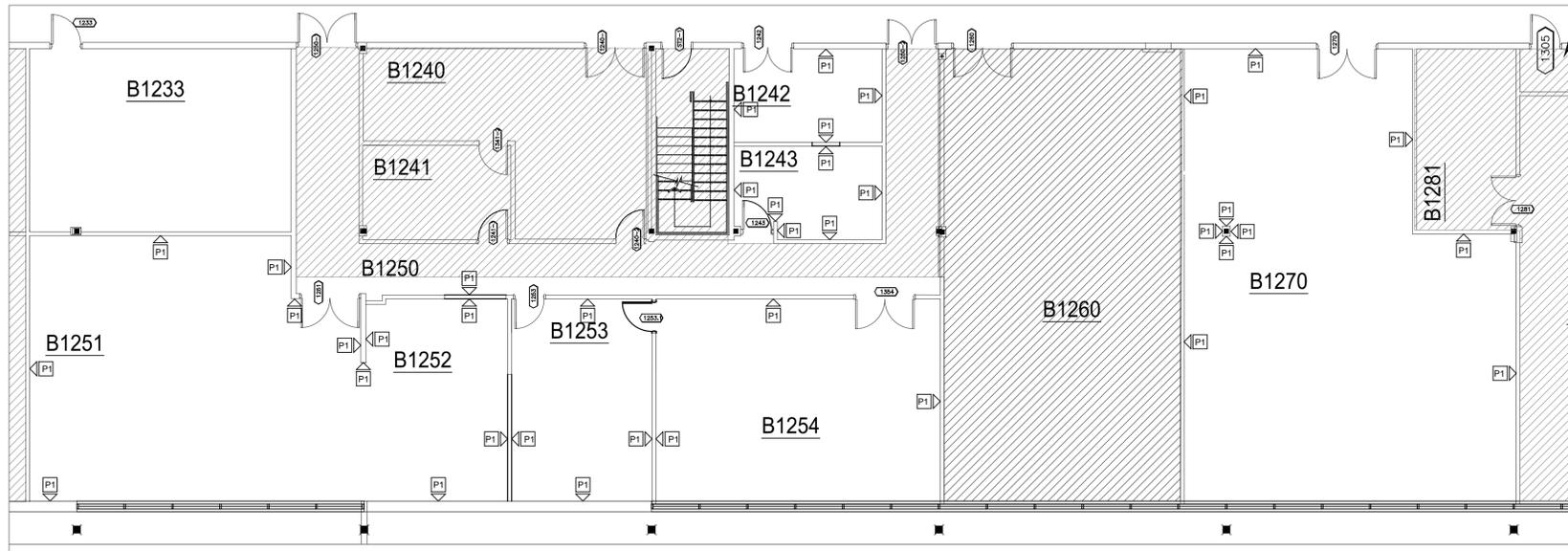
**WALL FINISHES**

GENERAL PAINT "P1"  
COLOUR: WHITE TO MATCH EXISTING  
FINISH: ACRYLIC BASED LATEX PAINT AS APPROVED BY OWNER

- GENERAL NOTES FOR FLOOR FINISHES:**
- ALL MATERIALS ARE TO BE ORDERED UPON APPROVAL OF SHOP DRAWINGS AND/OR SAMPLES. AT THIS TIME THE CONTRACTOR IS TO CONFIRM THAT ALL DELIVERIES WILL MEET CONSTRUCTION SCHEDULE. SUBSTITUTIONS WILL NOT BE ACCEPTED DUE TO LATE ORDERING. IN THE EVENT THAT MATERIALS ARE NOT AVAILABLE IN TIME TO MEET SCHEDULED COMPLETION DATES, THE CONTRACTOR SHALL PROVIDE PROOF OF DATE OF ORDER OF MATERIALS PRIOR TO REQUESTING SUBSTITUTIONS.
  - CONTRACTOR TO PREPARE FLOOR SLAB TO RECEIVE FLOORING IN ACCORDANCE WITH MANUFACTURER'S WRITTEN RECOMMENDATIONS. FLOOR SLAB TO BE SMOOTH AND SLOPED FOR PROPER DRAINAGE.
  - CONTRACTOR TO CHALK ALL FLOORING INSERT LOCATIONS AND PATTERNS ON SUBFLOOR AND OBTAIN APPROVAL FROM DESIGNER BEFORE COMMENCING WORK.
  - CONTRACTOR TO PROTECT FLOOR USING 6 mil POLY. POLY JOINTS ARE TO BE TAPED; ADHESIVE FROM TAPE IS NOT TO COME IN CONTACT WITH FLOORING. MAINTAIN PROTECTION FOR THE DURATION OF CONSTRUCTION ACTIVITIES.
  - CONTRACTOR TO PATCH AND REPAIR FLOOR FINISHES AS REQUIRED DUE TO DEMOLITION AND CONSTRUCTION ACTIVITIES.
  - CONTRACTOR SHALL PROVIDE SUITABLE TRANSITION STRIPS AT ALL FLOORING CHANGES. CONTRACTOR IS TO PROVIDE A SAMPLE FOR APPROVAL BY DESIGNER BEFORE PROCEEDING WITH INSTALLATION.
  - RESILIENT FLOORING
    - ALL FLOORING WITHIN ONE ROOM/AREA TO BE FROM THE SAME BATCH NUMBER.
    - SUBMIT SAMPLE OF PROPOSED WELDING RODS FOR REVIEW AND APPROVAL.
    - FLOORING, AND ALL NECESSARY COMPONENTS, ARE TO BE INSTALLED AS PER MANUFACTURER'S INSTRUCTIONS.
    - CONTINUE FLOORING OVER AREAS WHICH WILL BE UNDER BUILT-IN FURNITURE AND/OR MILLWORKS.
    - SCRIBE AND CUT FLOORING TO SUIT SITE CONDITIONS.
    - COMPLETE INITIAL CLEANING AS PER MANUFACTURER'S INSTRUCTIONS.
    - INCLUDE MANUFACTURER'S CLEANING AND MAINTENANCE INSTRUCTIONS IN OPERATIONS AND MAINTENANCE MANUAL.
    - CONTINUE FLOORING TO CREATE COVE WALL BASE. MATCH EXISTING HEIGHT. USE MANUFACTURER'S STANDARD COVE BASE COMPONENTS. TOP EDGE PROTECTION TO BE ANODIZED ALUMINUM.
  - CONTRACTOR TO PROVIDE SAMPLES OF PROPOSED FLOOR SAMPLES FOR REVIEW AND APPROVAL.



03 FLOOR FINISHES PLAN  
A102 SCALE: 1:100



04 WALL FINISHES PLAN  
A102 SCALE: 1:100

- GENERAL NOTES FOR WALL FINISHES:**
- ALL MATERIALS ARE TO BE ORDERED WHEN THE CONSTRUCTION CONTRACT IS AWARDED. AT THIS TIME THE CONTRACTOR IS TO CONFIRM THAT ALL DELIVERIES WILL MEET CONSTRUCTION SCHEDULE. SUBSTITUTIONS WILL NOT BE ACCEPTED DUE TO LATE ORDERING. IN THE EVENT THAT MATERIALS ARE NOT AVAILABLE IN TIME TO MEET SCHEDULED COMPLETION DATES, THE CONTRACTOR SHALL PROVIDE PROOF OF DATE OF ORDER OF MATERIALS PRIOR TO REQUESTING SUBSTITUTIONS.
  - CONTRACTOR TO PROVIDE COLOUR CONTROL SAMPLES FOR REVIEW AND APPROVAL BY DESIGNER FOR ALL PAINT SPECIFIED IN CONTRACT AREA. SAMPLES TO BE 305MM X 305MM AND BE TAGGED ACCORDING TO PAINT FINISHES LEGEND.
  - UNLESS OTHERWISE NOTED, ALL PAINT FINISHES ARE TO BE LATEX PAINT, EGGSHELL FINISH.
  - UNLESS OTHERWISE NOTED, ALL SURFACES WHERE PAINT IS APPLIED, CONTRACTOR TO PRIME WITH ONE COAT LATEX SEALER, SAND ALL SURFACES, REPAIR DEPRESSIONS, ETC. WITH DRYWALL COMPOUND. SPOT PRIME ALL PATCHED AREAS. SAND, APPLY ONE FINISH PAINT COAT (COLOUR AS SPECIFIED) AND AFTER COAT HAS DRIED RE-SAND AND FINISH WITH FINAL COAT OF PAINT.
  - DO NOT PAINT ANY SPRINKLERS OR FIRE SAFETY EQUIPMENT. REMOVE ALL SPLASHES.
  - SHOULD ANY DISCREPANCY OR UNCERTAINTY ARISE, CONTACT DESIGNER BEFORE PROCEEDING WITH APPLICATION OF FINISH.

Dimensions on drawing for estimating purposes only. It is the responsibility of each Contractor and Sub-Contractor to check all dimensions and conditions on site prior to implementation.

KEY PLAN



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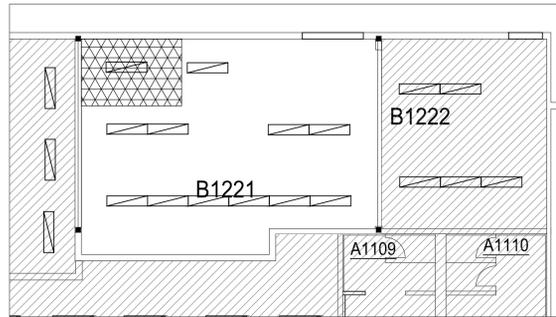
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1	ISSUED FOR 66% REVIEW	16/10/2013

MUSEUM OF NATURE  
NATURAL HERITAGE  
CAMPUS  
1440 PINK ROAD, GATINEAU

FLOOR FINISHES PLAN  
WALL FINISHES PLAN

scale: 1:100  
drawn: LR  
reviewed: LR  
date: AUG 2013

project no.: RDPROJND



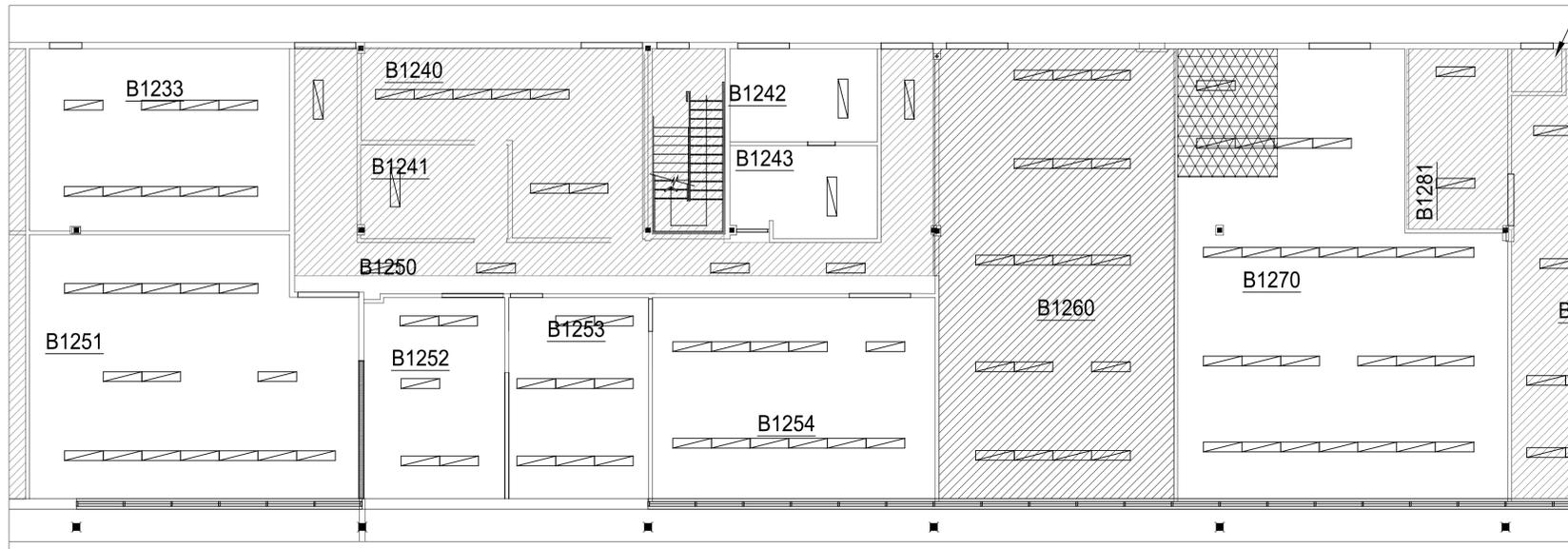
01 REFLECTED CEILING PLAN: B1221  
A103 SCALE: 1:100

**REFLECTED CEILING PLAN**

- NEW AND EXISTING PARTITIONS
- DOOR HEADERS
- FINAL LOCATION OF BASE BUILDING LIGHT FIXTURES FOR INFORMATION AND COORDINATION PURPOSES ONLY. REFER TO ENGINEERS DRAWINGS FOR LIGHTING SPECIFICATIONS AND CIRCUITING DETAILS.
- CONTRACTOR TO REPLACE EXISTING CEILING GRID AND TILES WHERE AFFECTED BY DEMOLITION ACTIVITIES. CONTRACTOR TO ENSURE ALL TILES & PENETRATIONS ARE SEALED WITH CAULKING APPROVED FOR THE FIRE RESISTANCE RATING REQUIRED.
- CEILING TO MATCH EXISTING: ARMSTRONG GYPSUM TILES. SUBMIT SHOP DRAWINGS FOR REVIEW AND APPROVAL BY DESIGNER BEFORE ORDERING TILES AND SYSTEM COMPONENTS.
- CONTRACTOR TO ADJUST FRAMING AND CAP EXISTING PARTITION 100mm BELOW SUSPENDED ACOUSTICAL CEILING WITH GYPSUM WALL BOARD. TAPE AND SAND ALL JOINTS. PAINT BULKHEAD TO MATCH EXISTING.

**GENERAL NOTES FOR REFLECTED CEILING PLAN:**

1. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL OTHER DRAWINGS AND SPECIFICATIONS. REFLECTED CEILING PLAN SHOWS FIXTURE LOCATIONS ONLY. REFER TO ELECTRICAL AND MECHANICAL ENGINEER'S DRAWINGS FOR SPECIFICATIONS, CIRCUITING, SWITCHING, SPRINKLER HEAD, EXIT SIGN, FIRE ALARM, SUPPLY AND RETURN AIR SOURCE LOCATIONS, ETC.
2. SUPPLY AND INSTALL NEW T-BAR SYSTEM AND CEILING TILES WHERE AFFECTED BY DEMOLITION, CONSTRUCTION, REMOVING AND RELOCATING LIGHT FIXTURES, ETC. SUPPLY & INSTALL ADDITIONAL CROSS-TS AS REQUIRED TO ENSURE PROPER FIT OF CEILING TILES. REFER TO M&E DRAWINGS AND SPECIFICATIONS FOR INSTRUCTION OF SUPPLYING & INSTALLING DIFFUSERS, RETURN AIR GRILLS, SPRINKLERS, ETC.
3. ADEQUATELY PROTECT THE T-BAR AND CEILING TILES DURING DEMOLITION AND CONSTRUCTION ACTIVITIES. PATCH, REPAIR OR REPLACE ANY MISSING, STAINED OR DAMAGED CEILING T-BAR AND OR CEILING TILES AS REQUIRED AND LEAVE THE CEILING IN A "LIKE NEW" CONDITION. CLEAN THE CEILING GRID OF ALL DIRT, STAINS, ADHESIVES, ETC.
4. REMOVE AND REPLACE CEILING TILES FOR ACCESS BY OTHER TRADES (MECHANICAL, ELECTRICAL AND CABLING)
5. CONTRACTOR TO ENSURE THAT ALL WORK COMPLIES WITH BUILDING STANDARDS, & RELEVANT MUNICIPAL, PROVINCIAL AND NATIONAL CODES.
6. CONTRACTOR TO COORDINATE WITH ELECTRICAL TRADES FOR LOCATIONS WHERE CEILING TILES ARE REQUIRED TO BE REMOVED, STOCKPILED, AND REINSTALLED FOLLOWING RUNNING CONDUIT FOR NEW CIRCUITS.
7. CONTRACTORS TO REMOVE THEIR OWN DEBRIS AS WORK PROGRESSES. ARCHITECTURAL CONTRACTOR TO REMOVE ALL NEW AND EXISTING DEBRIS REMAINING ON TOP OF ALL CEILING TILES AND FIXTURES WITHIN THE AREA OF WORK AT THE COMPLETION OF THE CONSTRUCTION PHASE. DEBRIS INCLUDES BUT IS NOT LIMITED TO: FIRE RETARDANT, CEILING TILES, ELECTRICAL AND MECHANICAL DEBRIS, GYPSUM WALL BOARD AND FRAMING MATERIALS.
8. CONTRACTOR TO RESEAL ALL TILES AND PENETRATIONS. FIRE RESISTANCE RATING OF SEALANT AS REQUIRED TO MEET EXISTING SEPARATION REQUIREMENTS.



02 FLOOR FINISHES PLAN  
A103 SCALE: 1:100

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KEY PLAN



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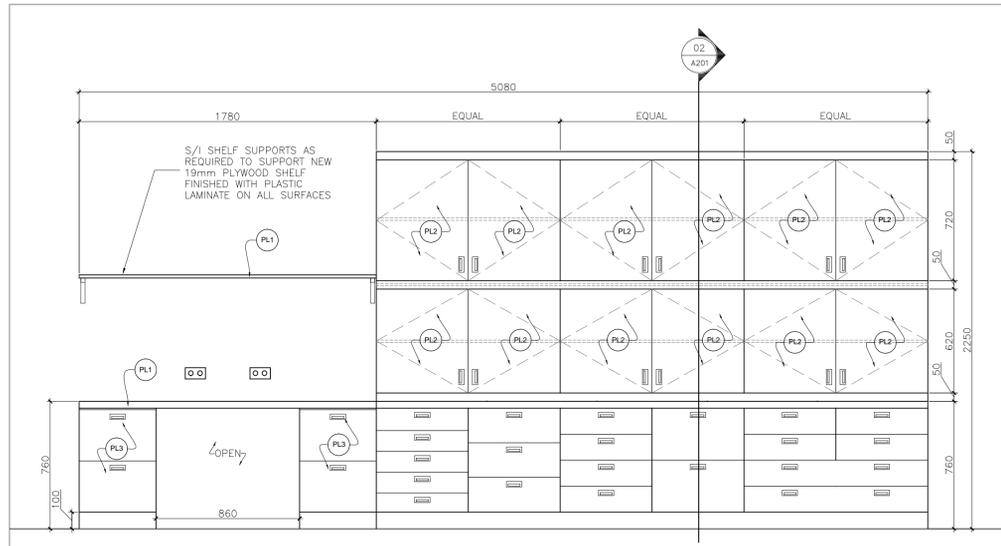
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MUSEUM OF NATURE  
NATURAL HERITAGE  
CAMPUS  
1440 PINK ROAD, GATINEAU  
**REFLECTED  
CEILING PLAN**

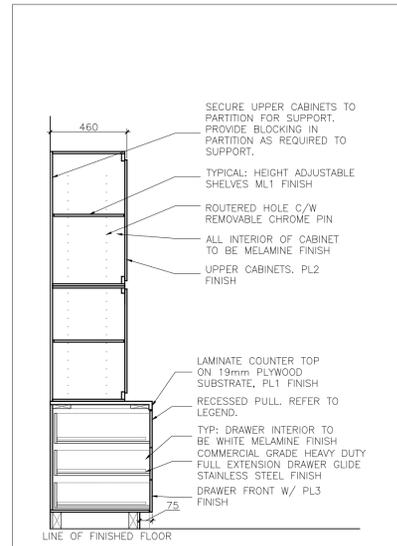
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reviewed:	LR
date:	AUG 2013

project no.: RDPROJND

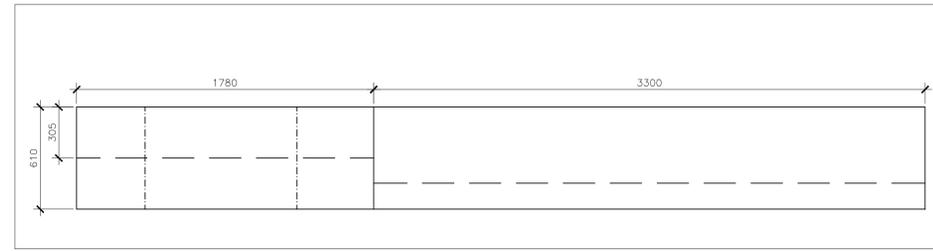
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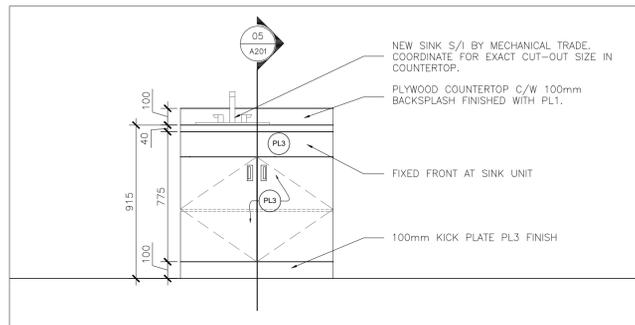
01 ELEVATION: B1221 MILLWORK  
A201 SCALE: 1:20



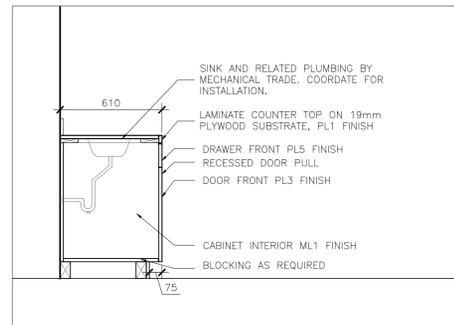
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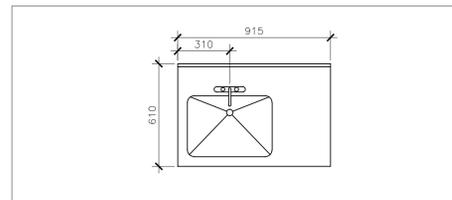
03 PLAN VIEW: B1221 MILLWORK  
A201 SCALE: 1:20



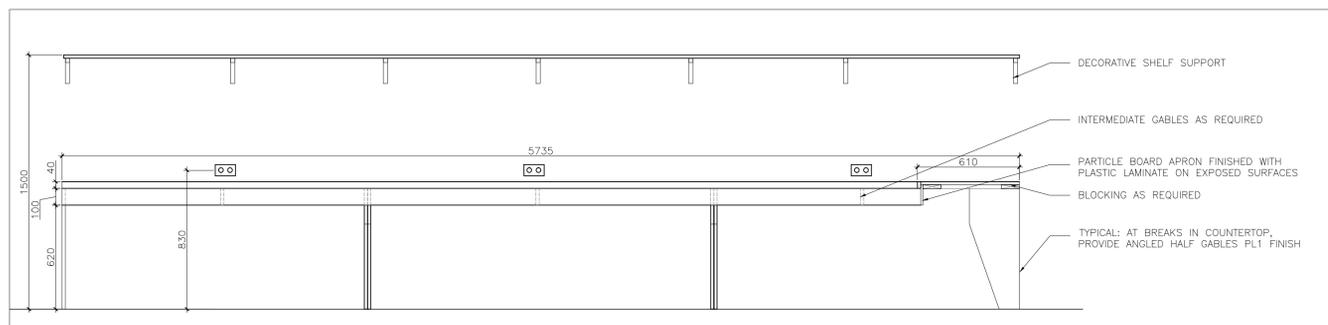
04 ELEVATION: B1270 MILLWORK  
A201 SCALE: 1:20



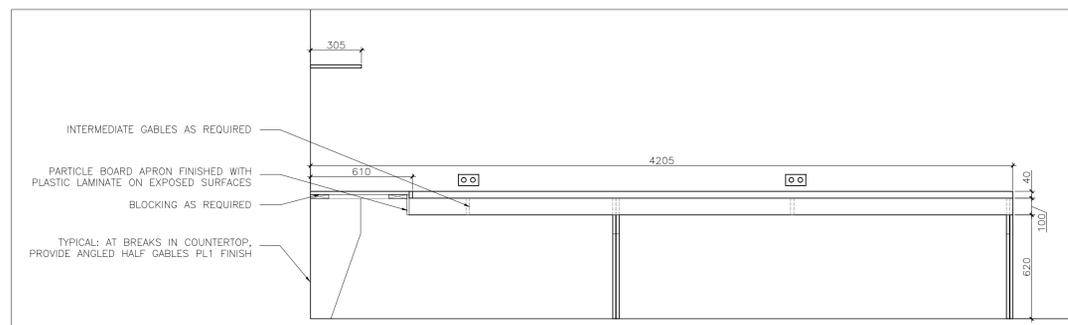
05 SECTION: B1270 MILLWORK  
A201 SCALE: 1:20



06 PLAN VIEW: B1270 MILLWORK  
A201 SCALE: 1:20



07 ELEVATION: B1270 COMPUTER DESK MILLWORK  
A201 SCALE: 1:20



08 ELEVATION: B1270 COMPUTER DESK MILLWORK  
A201 SCALE: 1:20

KEY PLAN



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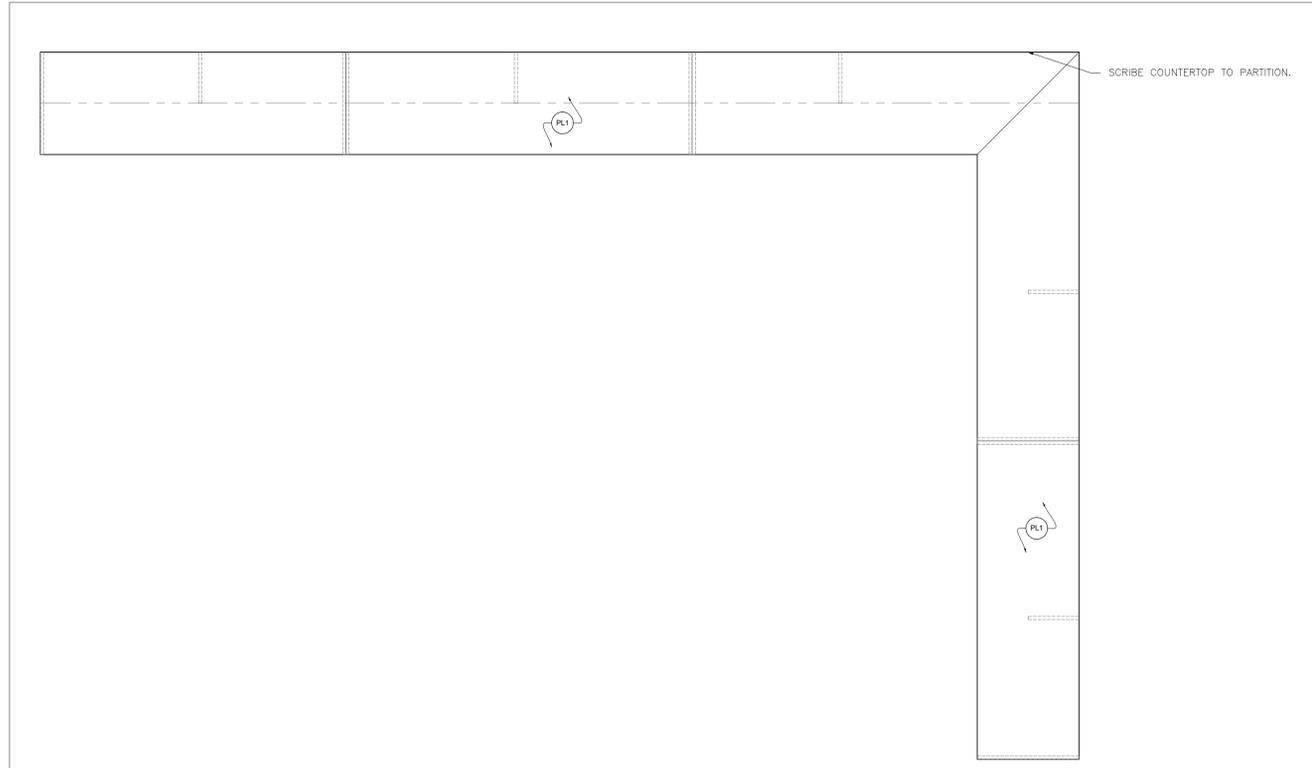
**MUSEUM OF NATURE  
NATURAL HERITAGE  
CAMPUS**  
1440 PINK ROAD, GATINEAU

**MILLWORK  
ELEVATIONS  
& SECTIONS**

scale:	1:20
drawn:	LR/RB
reviewed:	LR
date:	AUG 2013

project no.: RDPROJND

A-201



01 PLAN VIEW: COMPUTER DESK MILLWORK ROOM B1220  
A202 SCALE: 1:20

MILLWORK FINISHES LEGEND & NOTES

- PL1** PLASTIC LAMINATE (HORIZONTAL SURFACES)  
 MANUFACTURER: WILSONART  
 CHEMSURF OF APPROVED EQUIVALENT CHEMICAL  
 RESISTANT LAMINATE  
 COLOUR: BLACK  
 OR APPROVED EQUIVALENT
- PL2** PLASTIC LAMINATE (VERTICAL SURFACES - UPPER)  
 TO MATCH FURNITURE SPECIFICATIONS
- PL3** PLASTIC LAMINATE (VERTICAL SURFACES - LOWER)  
 TO MATCH FURNITURE SPECIFICATIONS (WOOD  
 PATTERN TO MATCH VENEER)
- ML1** MELAMINE  
 MANUFACTURER: PANOLAM  
 COLOUR NAME: GLACIER WHITE  
 COLOUR NO.: 205; CHAMOS FINISH  
 OR APPROVED EQUIVALENT
- DECORATIVE HARDWARE**  
 RECESSED DOOR AND DRAWER PULL:  
 RICHELIEU CONTEMPORARY METAL RECESSED PULL  
 PRODUCT NUMBER: 686900  
 MATTE BLACK FINISH  
 SIZE: 92mm x 32mm  
 OR APPROVED EQUIVALENT
- DECORATIVE SHELF SUPPORT:**  
 RICHELIEU DECORATIVE SHELF SUPPORT  
 PRODUCT NUMBER: 300A90  
 FINISH: BLACK  
 SIZE: 150mm HIGH x 235mm DEEP  
 OR APPROVED EQUIVALENT

MILLWORK GENERAL NOTES

1. CONTRACTOR TO PROVIDE SHOP DRAWINGS (1 SET, ELECTRONIC FORMAT) FOR ALL MILLWORK.
2. ALL MILLWORK TO HAVE CONCEALED FASTENERS.
3. SURFACES TO BE CONSTRUCTED AS NOTED:  
 A) COUNTERTOP WITH 50mm SELF EDGED FRONT EDGE. PLYWOOD. FINISH AS NOTED.  
 B) CABINET DOORS & DRAWER FRONTS: 13mm UNIBOARD NUGREEN PARTICLE BOARD OR APPROVED EQUIVALENT (NO ADDED UREA FORMALDEHYDE).  
 C) TOE SPACE: 13mm UNIBOARD NUGREEN PARTICLE BOARD OR APPROVED EQUIVALENT (NO ADDED UREA FORMALDEHYDE). FINISH AS NOTED.  
 D) SHELVES: 13mm UNIBOARD NUGREEN PARTICLE BOARD OR APPROVED EQUIVALENT (NO ADDED UREA FORMALDEHYDE). FINISH AS NOTED.
4. CABINET DOORS TO HAVE HEAVY DUTY, SELF CLOSING HINGES.
5. DRAWER GLIDES TO BE FULL EXTENSION DRAWER GLIDES. RICHELIEU 38322G20 OR SIMILAR.
6. PULLS AS NOTED IN LEGEND
7. CONTRACTOR TO SII FULL GABLES AT END OF UNITS FOR STABILITY AS REQUIRED. GABLE FINISH TO MATCH CUPBOARD DOORS.
8. CONTRACTOR TO SII BLOCKING IN PARTITIONS AS REQUIRED TO SUPPORT MILLWORK INSTALLATION.
9. REFER TO ENGINEERS' DRAWINGS FOR DETAILS ON PLUMBING FIXTURES & EQUIPMENT AND ELECTRICAL CONNECTIONS.

Dimensions on drawing for estimating purposes only.  
 It is the responsibility of each Contractor and  
 Sub-Contractor to check all dimensions and  
 conditions on site prior to implementation.

KEY PLAN



**IMPORTANT:**  
 CMN PEST MANAGEMENT: ALL  
 MATERIALS, TOOLS, AND EQUIPMENT  
 TO BE USED TO COMPLETE THE  
 SCOPE OF THIS PROJECT MUST BE  
 SUBMITTED TO THE MUSEUM FOR  
 FREEZING FOR A PERIOD OF SEVEN  
 (7) DAYS OR FOR VISUAL  
 INSPECTION. THIS INSPECTION  
 AND/OR FREEZING PERIOD MUST BE  
 ACCOUNTED FOR WITHIN THE  
 PROJECT CONSTRUCTION  
 SCHEDULE. ENSURE DELIVERY  
 SCHEDULES ACCOMMODATE THIS  
 REQUIREMENT AND DO NOT LEAD  
 TO DELAYS.



N*	REVISION	DATE
4	ISSUED FOR TENDER	14/02/2014
3	REISSUED FOR 99% REVIEW	27/11/2013
2	ISSUED FOR 99% REVIEW	05/11/2013
1	ISSUED FOR 66% REVIEW	16/10/2013
N*	REVISION	DATE

REVISIONS

MUSEUM OF NATURE  
 NATURAL HERITAGE  
 CAMPUS

1440 PINK ROAD, GATINEAU

MILLWORK  
 ELEVATIONS  
 MILLWORK DETAILS

scale:	1:20
drawn:	LR/RB
reviewed:	LR
date:	AUG 2013

project no.: RDPROJND

A-202