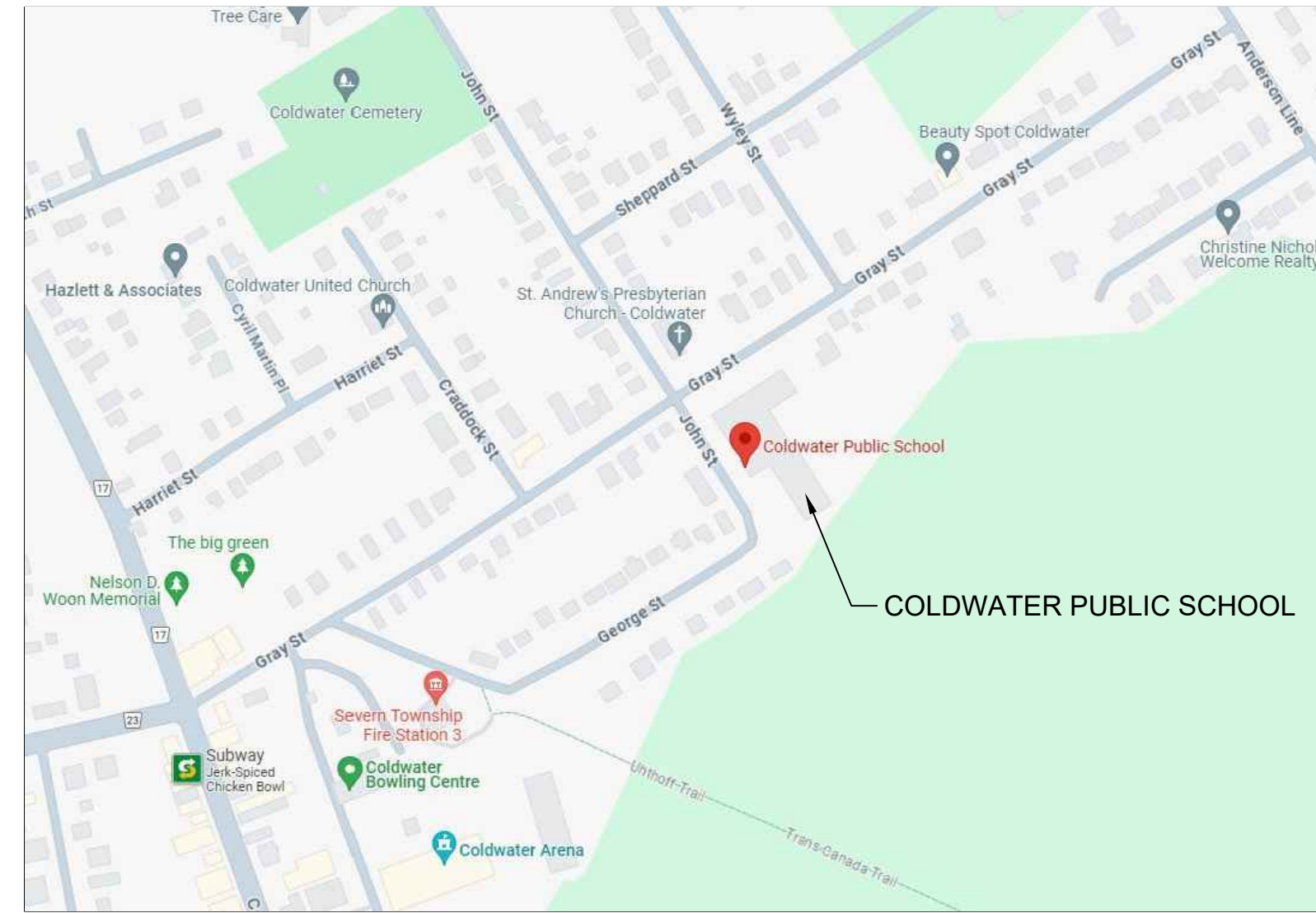


SIMCOE COUNTY DISTRICT SCHOOL BOARD COLDWATER PUBLIC SCHOOL INTERIOR RENOVATIONS

3 John St. West
Coldwater, ON



1 LOCATION MAP
A000 N.T.S.

LIST OF DRAWINGS

000 OBC MATRIX AND LIST OF DRAWINGS

ARCHITECTURAL

- A201 OVERALL AND ENLARGED GROUND FLOOR PLAN
- A202 ENLARGED GROUND FLOOR DEMO PLAN
- A203 ENLARGED GROUND FLOOR PLAN
- A204 ENLARGED GROUND FLOOR DEMO RCP PLAN
- A205 ENLARGED GROUND FLOOR RCP PLAN
- A701 INTERIOR ELEVATIONS
- A702 INTERIOR ELEVATIONS
- A703 INTERIOR ELEVATIONS
- A704 INTERIOR ELEVATIONS
- A801 MILLWORK SECTIONS
- A901 ROOM FINISH SCHEDULE

MECHANICAL

- M1.1 KEY PLAN, SCHEDULES & LEGEND
- M2.1 ENLARGED GROUND FLOOR PART PLAN MECHANICAL DEMO
- M2.2 ENLARGED GROUND FLOOR PART PLAN MECHANICAL RENO
- M3.0 MECHANICAL SPECIFICATION

ELECTRICAL

- E101 KEY PLAN, LEGEND, SCHEDULES AND DETAILS
- E201 PARTIAL GROUND FLOOR - LIGHTING DEMOLITION PLAN
- E202 PARTIAL GROUND FLOOR - POWER AND SYSTEMS DEMOLITION PLAN
- E301 PARTIAL GROUND FLOOR - LIGHTING RENOVATION PLAN
- E302 PARTIAL GROUND FLOOR - POWER AND SYSTEMS RENOVATION PLAN

| Ontario Building Code Data Matrix Part 11 - Renovation of Existing Building | | | | OBC Reference |
|---|---|--|--|--|
| <p>NAME OF PROJECT : BARRY BRYAN ASSOCIATES CERTIFICATE OF PRACTICE NUMBER : 6192 250 WATER STREET, SUITE 201 WHITBY, ONTARIO, CANADA L1N 0G5 TEL: (905) 666-5252 (Toronto) (905) 427-4495 FAX: (905) 666-5256</p> <p>NAME OF PROJECT : COLDWATER PUBLIC SCHOOL INTERIOR RENOVATIONS</p> <p>LOCATION OF PROJECT : 3 JOHN ST. WEST, COLDWATER, ON</p> <p>DATE : JAN. 2024</p> | | | | |
| 11.00 | Building Code Version: | Last Amendment: | | |
| 11.01 | Project Type: | <input type="checkbox"/> Addition <input type="checkbox"/> Change of use <input checked="" type="checkbox"/> Renovation <input type="checkbox"/> Addition and Renovation | | [A] 1.1.2. |
| 11.02 | Major Occupancy Classification: | Occupancy: Group A, Div. 2 Use: School | | 3.1.2.1.(1) |
| 11.03 | Superimposed Major Occupancies: | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | | 3.2.2.7 |
| 11.04 | Building Area (m ²) | Description: GROUND FLOOR Existing: 3131.7m ² New: N/A Total: 3131.7m ² | | [A] 1.4.1.2. |
| 11.05 | Building Height | 1 (One) Storeys above grade 0 (zero) Storeys below grade | | [A] 1.4.1.2 & 3.2.1.1 |
| 11.06 | Number of streets/ fire fighter access: | 1 street(s) | | 3.2.2.10 & 3.2.5 |
| 11.07 | Building Size: | <input type="checkbox"/> Small <input type="checkbox"/> Medium <input checked="" type="checkbox"/> Large <input type="checkbox"/> > Large | | T.11.2.1.1.B.-N. |
| 11.08 | Existing Building Classification: | Change in Major Occupancy: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> Not Applicable (no change of major occupancy) | | 11.2.1 T11.2.1.1A T11.2.1.1B to N. 4.2.1(3) & 5.2.2.1.(2) |
| 11.09 | Renovation Type: | <input checked="" type="checkbox"/> Basic Renovation <input type="checkbox"/> Extensive Renovation | | 11.3.3.1 & 11.3.3.2 |
| 11.10 | Occupant Load: | Floor Level/ Area: _____ Occupancy Type: _____ Based On: _____ Occup. Load: _____ | | 3.1.17 |
| 11.11 | Plumbing Fixture Requirements: | Ratio: Male/Female = 50:50 Except as noted otherwise Floor Level/ Area: _____ Occupant: _____ Fixtures: _____ Load: _____ OBC Reference Required: _____ Provided: _____ | | 3.7.4 |
| 11.12 | Barrier-free Design: | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Explanation: INTERIOR FINISH IMPROVEMENTS ONLY | | 11.3.3.2.(2) |
| 11.13 | Reduction in Performance Level: | Structural: <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes By Increase in occupant load: <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes By change of major occupancy: <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes Plumbing: <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes Sewage - system: <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes | | 11.4.2.1 11.4.2.2 11.4.2.3 11.4.2.4 11.4.2.5 |
| 11.14 | Compensating Construction: | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Structural: <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes By Increase in occupant load: <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes By change of major occupancy: <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes Plumbing: <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes Sewage - system: <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes Extension of Combustible Construction: <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes | | 11.4.2.1 11.4.2.2 11.4.2.3 11.4.2.4 11.4.2.5 11.4.2.6 11.4.2.7 |
| 11.15 | Compliance Alternatives Proposed: | <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes | | 11.5.1. |
| 11.16 | Notes: | Project Description: Interior renovations to Classrooms, corridors and offices. AREA OF WORK/RENOVATION: 920.7m ² BUILDING AREA: 3131.7m ² | | 11.5.1 |

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| NO. | ISSUES | DATE | BY |
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| 1 | CLIENT REVIEW | FEB. 12 2024 | BBA |
| 2 | ISSUED FOR REVIEW | FEB. 27 2024 | BBA |
| 3 | ISSUED FOR PERMIT & TENDER | APR. 18 2024 | BBA |

| NO. | REVISIONS | DATE | BY |
|-----|-----------|------|----|
|-----|-----------|------|----|

PROJECT:
**COLDWATER PUBLIC SCHOOL
 INTERIOR RENOVATIONS**
 3 JOHN ST. WEST, COLDWATER, ON
 SCDSB - COLDWATER PUBLIC SCHOOL

DRAWING:
**OBC MATRIX AND
 LIST OF DRAWINGS**

CONSULTANTS

ARCHITECTURAL/STRUCTURAL:

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 Project Managers
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 L1N 0G5
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 Fax: (905) 666-5256
 e-mail: bba@bba-archeng.com

MECHANICAL & ELECTRICAL:

DEI Consulting Engineers
 MECHANICAL | ELECTRICAL | AQUATIC



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 Engineers
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 Suite 201
 Whitby, Ontario
 L1N 0G5
 Tel: (905) 666-5252
 Fax: (905) 666-5256
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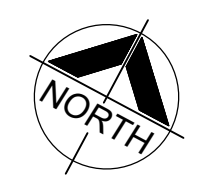
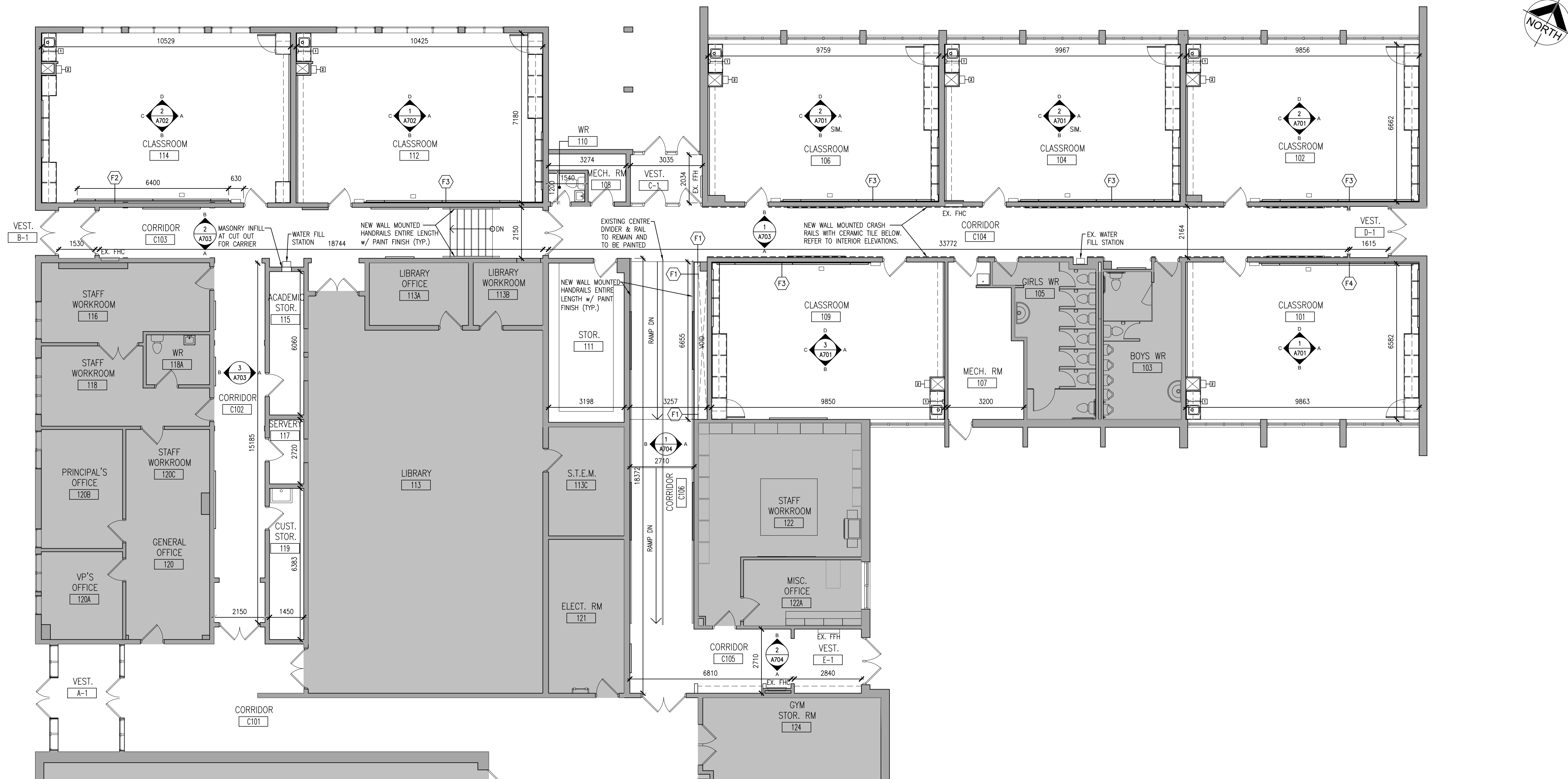
DESIGN BY: BBA
 DRAWN BY: DP
 CHECKED BY: DM
 DATE: JAN. 2024
 SCALE: AS NOTED
 FILE: 24009 A000.dwg

PROJECT NO: **24009**
 DRAWING NO: **A000**

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| FLOOR PLAN NOTATION LEGEND | | FURRING TYPES | |
|--|-------------------------------------|---------------|---|
| | CLASSROOM | | 16mm ABUSE RESISTANT GYPSUM BOARD 152mm STEEL STUDS @ 400mm O.C. |
| | ROOM NAME & NUMBER | | 16mm ABUSE RESISTANT GYPSUM BOARD 16mm PLYWOOD SHEATHING 64mm FURRING CHANNELS @ 400mm O.C. EXIST. BLOCK WALL *BEHIND BOARDS ONLY |
| | INTERIOR PARTITION OR FURRING TYPE | | 16mm ABUSE RESISTANT GYPSUM BOARD 22mm FURRING CHANNELS EXIST. GYPSUM BOARD / STUD *BEHIND BOARDS ONLY |
| | INTERIOR ELEVATION REFERENCE NUMBER | | 16mm ABUSE RESISTANT GYPSUM BOARD 41mm FURRING CHANNELS EXIST. GYPSUM BOARD / STUD *BEHIND BOARDS ONLY |
| PARTITION & FURRING NOTES | | | |
| 1. UNLESS OTHERWISE NOTED, ALL PARTITIONS / FURRING TERMINATE AT UNDERSIDE OF METAL ROOF DECK ABOVE. | | | |
| 2. ALL ROOMS SCHEDULED TO BE PAINTED SHALL INCLUDE ALL WALLS, BULKHEADS, DOORS AND FRAMES. | | | |



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|-----|-----------|------|----|
| | | | |

PROJECT:
**COLDWATER PUBLIC SCHOOL
 INTERIOR RENOVATIONS**

3 JOHN ST. WEST, COLDWATER, ON
 SCDSB - COLDWATER PUBLIC SCHOOL

DRAWING:
**ENLARGED GROUND
 FLOOR PLAN**



BARRY BRYAN ASSOCIATES
 Architects
 Engineers
 Project Managers
 250 Water Street
 Suite 201
 Whitby, Ontario
 L1N 0G5
 Tel: (905) 666-5252
 Fax: (905) 666-5256
 e-mail: bba@bba-archeng.com

| | |
|-------------------------|-------------------|
| DESIGN BY: BBA | DOC CONTROL DATE: |
| DRAWN BY: DP | % COMPLETE: |
| CHECKED BY: DM | INITIAL: |
| DATE: JAN. 2024 | |
| SCALE: AS NOTED | |
| FILE: 24009 A203.dwg | |

PROJECT NO:
24009

DRAWING NO:
A203

1
A203 ENLARGED GROUND FLOOR PLAN
 1:100

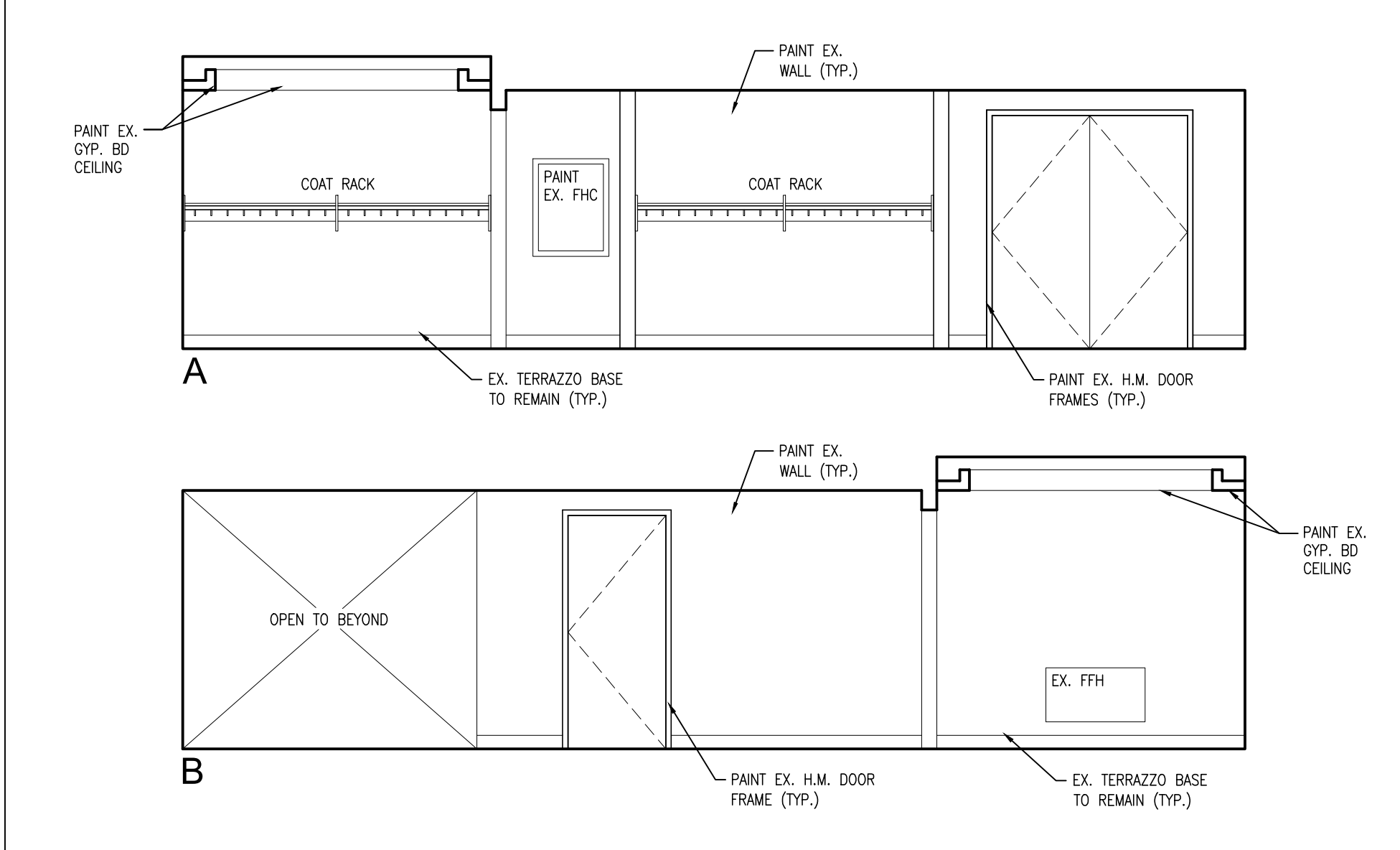
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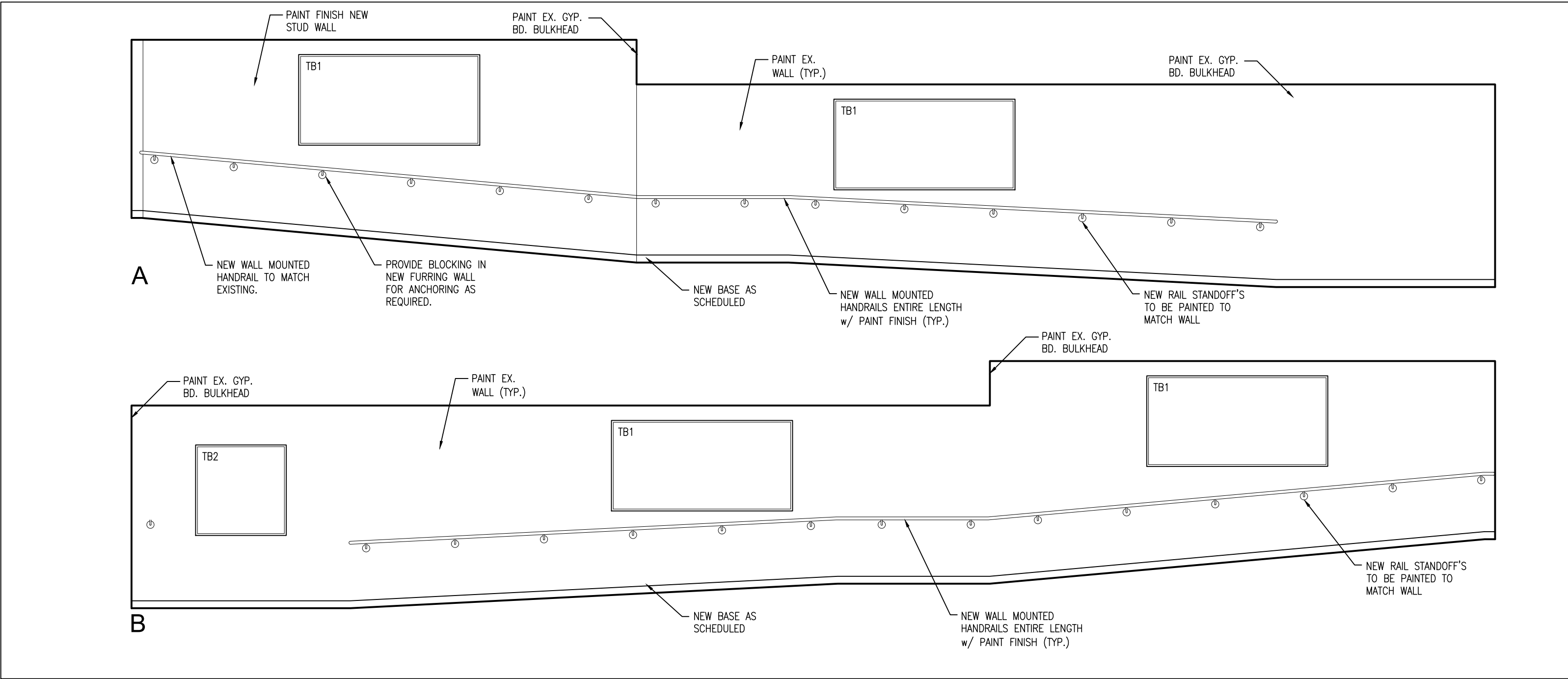
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| INTERIOR ELEVATION NOTES | |
|--------------------------|---|
| 1. | REFER TO ELECTRICAL DRAWINGS FOR ALL NEW RECEPTACLES. |
| 2. | REFER TO ELECTRICAL DRAWINGS FOR NEW CONTROL PANELS. |
| 3. | ALL SHELVES TO BE ADJUSTABLE U.N.O. |
| 4. | PROVIDE LOCKABLE B/F HARDWARE LATCH AT ALL NEW TEACHER'S CLOSETS. ("BEST" HARDWARE REMOVABLE CORES) |
| 5. | REPAIR BULKHEADS AS NEEDED BEFORE PAINTING |

| MAGNETIC WHITE BOARDS (LxW) | TACK BOARDS (LxW) |
|-----------------------------|-------------------|
| MWB1 - 2438x1219 | TB1 - 2438x1219 |
| MWB2 - 762x1219 | TB2 - 1219x1219 |
| | TB3 - 6400x406 |
| | TB4 - VARIOUSx610 |



2
A704
CORRIDOR C105
1:50



1
A704
CORRIDOR C106
1:50

PROJECT:
**COLDWATER PUBLIC SCHOOL
 INTERIOR RENOVATIONS**

3 JOHN ST. WEST, COLDWATER, ON
 SCDSB - COLDWATER PUBLIC SCHOOL

DRAWING:
INTERIOR ELEVATIONS



BARRY BRYAN ASSOCIATES
 Architects
 Engineers
 Project Managers
 250 Water Street
 Suite 201
 Whitby, Ontario
 L1N 0G5
 Tel: (905) 666-6252
 Fax: (905) 666-6256
 e-mail: bba@bba-archeng.com

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| DESIGN BY: BBA | DOC CONTROL DATE: |
| DRAWN BY: DP | % COMPLETE: |
| CHECKED BY: DM | INITIAL: |
| DATE: JAN. 2024 | |
| SCALE: AS NOTED | |
| FILE: 24009 A701.dwg | |

PROJECT NO:
24009

DRAWING NO:
A704

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| ROOM SCHEDULE | | | | | | | | | | | |
|---------------|-------------------|-------|------|-------|----------------------|----------------------|----------------------|----------------------|----------------|---------|--|
| ROOM NO. | ROOM NAME | FLOOR | BASE | WALLS | | | | CEILING | CEILING HEIGHT | REMARKS | |
| | | | | NORTH | EAST | SOUTH | WEST | | | | |
| 101 | CLASSROOM | MAT. | EX. | — | EX. | EX. | EX. | EX. | ACT. | 2650 | |
| | | FIN. | VCT | RB | P | P | P | P | PREFIN. | — | |
| | | COL. | — | — | — | — | — | — | — | — | |
| 102 | CLASSROOM | MAT. | EX. | — | EX. | EX. | EX. | EX. | ACT. | 2650 | |
| | | FIN. | VCT | RB | P | P | P | P | PREFIN. | — | |
| | | COL. | — | — | — | — | — | — | — | — | |
| 104 | CLASSROOM | MAT. | EX. | — | EX. | EX. | EX. | EX. | ACT. | 2650 | |
| | | FIN. | VCT | RB | P | P | P | P | PREFIN. | — | |
| | | COL. | — | — | — | — | — | — | — | — | |
| 106 | CLASSROOM | MAT. | EX. | — | EX. | EX. | EX. | EX. | ACT. | 2650 | |
| | | FIN. | EX. | RB | P | P | P | P | PREFIN. | — | |
| | | COL. | — | — | — | — | — | — | — | — | |
| 107 | MECH. RM | MAT. | EX. | — | EX. | EX. | EX. | EX. | ACT. | 3200 | |
| | | FIN. | EX. | EX. | P | P | P | P | P | — | |
| | | COL. | — | — | — | — | — | — | — | — | |
| 108 | MECH. RM | MAT. | EX. | — | EX. | EX. | EX. | EX. | ACT. | 3200 | |
| | | FIN. | EX. | EX. | P | P | P | P | P | — | |
| | | COL. | — | — | — | — | — | — | — | — | |
| 109 | CLASSROOM | MAT. | EX. | — | EX. | EX. | EX. | EX. | ACT. | 2650 | |
| | | FIN. | VCT | RB | P | P | P | P | PREFIN. | — | |
| | | COL. | — | — | — | — | — | — | — | — | |
| 110 | WASHROOM | MAT. | EX. | — | EX. | EX. | EX. | EX. | ACT. | 2850 | |
| | | FIN. | PCT2 | PCT2 | P | P | P | P | PREFIN. | — | |
| | | COL. | — | — | — | — | — | — | — | — | |
| 111 | STORAGE | MAT. | EX. | — | EX. | EX. | EX. | EX. | ACT. | 2650 | |
| | | FIN. | EX. | EX. | P | P | P | P | P | — | |
| | | COL. | — | — | — | — | — | — | — | — | |
| 112 | CLASSROOM | MAT. | EX. | — | EX. | EX. | EX. | EX. | ACT. | 2650 | |
| | | FIN. | VCT | RB | P | P | P | P | PREFIN. | — | |
| | | COL. | — | — | — | — | — | — | — | — | |
| 114 | CLASSROOM | MAT. | EX. | — | EX. | EX. | EX. | EX. | ACT. | 2650 | PROVIDE NEW PLYWOOD FURRING ON SOUTH WALL OF CLASSROOM IN AND AROUND COLUMN BUMP OUTS FOR FLUSH INSTALLATION OF NEW WALL MOUNTED BOARDS. SITE VERIFY BUMP OUT THICKNESS. |
| | | FIN. | VCT | RB | P | P | P | P | PREFIN. | — | |
| | | COL. | — | — | — | — | — | — | — | — | |
| 115 | ACADEMIC STORAGE | MAT. | EX. | — | EX. | EX. | EX. | EX. | ACT. | 3040 | |
| | | FIN. | EX. | EX. | P | P | P | P | P | — | |
| | | COL. | — | — | — | — | — | — | — | — | |
| 117 | SERVERY | MAT. | EX. | — | EX. | EX. | EX. | EX. | ACT. | 3040 | |
| | | FIN. | EX. | EX. | P | P | P | P | P | — | |
| | | COL. | — | — | — | — | — | — | — | — | |
| 119 | CUSTODIAL STORAGE | MAT. | EX. | — | EX. | EX. | EX. | EX. | ACT. | 3040 | |
| | | FIN. | EX. | EX. | P | P | P | P | P | — | |
| | | COL. | — | — | — | — | — | — | — | — | |
| C101 | CORRIDOR | MAT. | EX. | — | EX. | EX. | EX. | EX. | ACT. | 2420 | |
| | | FIN. | EX. | EX. | P | P | P | P | PREFIN. | — | |
| | | COL. | — | — | — | — | — | — | — | — | |
| C102 | CORRIDOR | MAT. | EX. | — | EX. | EX. | EX. | EX. | ACT. | 2420 | |
| | | FIN. | EX. | EX. | P | P | P | P | PREFIN. | — | |
| | | COL. | — | — | — | — | — | — | — | — | |
| C103 | CORRIDOR | MAT. | EX. | — | EX. | EX. | EX. | EX. | ACT. | VARIES | |
| | | FIN. | EX. | EX. | P | P | P | P | PREFIN. | — | |
| | | COL. | — | — | — | — | — | — | — | — | |
| C104 | CORRIDOR | MAT. | EX. | — | EX. | EX. | EX. | EX. | ACT. | 2400 | SEE ALSO INTERIOR ELEVATIONS. EXISTING MASONRY TO BE PARGED WITH SKIM COAT AND PAINTED EXCEPT BELOW CRASH RAIL WHERE TILE FINISH IS REQUIRED. |
| | | FIN. | EX. | EX. | PRG/P(HIGH CT1)(LOW) | PRG/P(HIGH CT1)(LOW) | PRG/P(HIGH CT1)(LOW) | PRG/P(HIGH CT1)(LOW) | PREFIN. | — | |
| | | COL. | — | — | — | — | — | — | — | — | |
| C105 | CORRIDOR | MAT. | EX. | — | EX. | EX. | EX. | EX. | ACT. | 2400 | SEE ALSO INTERIOR ELEVATIONS. |
| | | FIN. | EX. | EX. | P | P | P | P | PREFIN. | — | |
| | | COL. | — | — | — | — | — | — | — | — | |
| C106 | CORRIDOR | MAT. | EX. | — | EX. | EX. | EX. | EX. | ACT. | VARIES | NEW FLOORING AND WALL BASE AT RAMP AREA. |
| | | FIN. | PCT1 | PCT1 | P | P | P | P | PREFIN. | — | |
| | | COL. | — | — | — | — | — | — | — | — | |
| C108 | CORRIDOR | MAT. | EX. | — | EX. | EX. | EX. | EX. | ACT. | 2420 | |
| | | FIN. | EX. | EX. | P | P | P | P | PREFIN. | — | |
| | | COL. | — | — | — | — | — | — | — | — | |
| A-1 | VESTIBULE | MAT. | EX. | — | EX. | EX. | EX. | EX. | ACT. | 2500 | |
| | | FIN. | EX. | EX. | P | P | P | P | P | — | |
| | | COL. | — | — | — | — | — | — | — | — | |
| B-1 | VESTIBULE | MAT. | EX. | — | EX. | EX. | EX. | EX. | ACT. | 2500 | |
| | | FIN. | EX. | EX. | P | P | P | P | P | — | |
| | | COL. | — | — | — | — | — | — | — | — | |
| C-1 | VESTIBULE | MAT. | EX. | — | EX. | EX. | EX. | EX. | ACT. | 2390 | NEW PAINT FINISH TO EXISTING RECESSED FORCE FLOW HEATER TO MATCH WALL. |
| | | FIN. | EX. | EX. | P | P | P | P | P | — | |
| | | COL. | — | — | — | — | — | — | — | — | |
| D-1 | VESTIBULE | MAT. | EX. | — | EX. | EX. | EX. | EX. | ACT. | 2525 | |
| | | FIN. | EX. | EX. | P | P | P | P | P | — | |
| | | COL. | — | — | — | — | — | — | — | — | |
| E-1 | VESTIBULE | MAT. | EX. | — | EX. | EX. | EX. | EX. | ACT. | 2690 | NEW PAINT FINISH TO EXISTING WALL MOUNTED FORCE FLOW HEATER TO MATCH WALL. |
| | | FIN. | EX. | EX. | P | P | P | P | P | — | |
| | | COL. | — | — | — | — | — | — | — | — | |

- NOTES:
1. ALL MILLWORK TO BE FINISHED WITH RUBBER BASE TO MATCH BASE FINISH ON ADJACENT WALLS.
2. PAINT ALL EXISTING METAL DOOR FRAMES IN AREAS OF WORK.
3. PROVIDE NEW FLOOR TRANSITIONS BETWEEN DIFFERENT FLOORING FINISHES AS REQUIRED.
4. ALL WALLS w/ NEW PAINT FINISH TO BE PAINTED FULL HEIGHT TO U/S BULKHEADS - CEILINGS U.N.O.

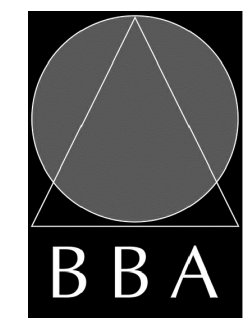
ABBREVIATION LEGEND

| | |
|-------|----------------------|
| CONT. | CONTINUOUS |
| EX. | EXISTING |
| TYP. | TYPICAL |
| P | PAINT |
| FRG | PARGE |
| GB | GYPSPUM BOARD |
| ACT. | ACOUSTIC TILE |
| VCT | VINYL COMPOSITE TILE |
| RB | RUBBER BASEBOARD |
| CB | CONCRETE BLOCK |
| CT | CERAMIC TILE |

PROJECT:
**COLDWATER PUBLIC SCHOOL
INTERIOR RENOVATIONS**

3 JOHN ST. WEST , COLDWATER, ON
SCDSB - COLDWATER PUBLIC SCHOOL

DRAWING:
ROOM FINISH SCHEDULE



**BARRY BRYAN
ASSOCIATES**
Architects
Engineers
Project Managers
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Tel: (905) 666-6252
Fax: (905) 666-6256
e-mail: bba@bba-archeng.com

| | |
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| DESIGN BY: BBA | DOC CONTROL: DATE: |
| DRAWN BY: DP | % COMPLETE: |
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| DATE: JAN. 2024 | SCALE: AS NOTED |
| FILE: 24009 A201.dwg | |

PROJECT NO:
24009

DRAWING NO:
A901

MECHANICAL SPECIFICATION

PART A GENERAL NOTES

- PROVIDE LABOUR, MATERIAL AND EQUIPMENT REQUIRED TO PROVIDE A COMPLETE INSTALLATION WITH QUALITY WORKMANSHIP ACCEPTABLE TO OWNER AND CONSULTANT.
- OBTAIN ALL PERMITS AND PAY ALL TAXES, FEES, AND OTHER COSTS INCURRED WITH THIS WORK. FILE ALL PLANS. OBTAIN ALL NECESSARY APPROVALS, CERTIFICATES, SUBMIT ALL FINAL CERTIFICATES TO THE CONSULTANT. COMPLY WITH RULES AND RECOMMENDATIONS OF THE BOARD OF FIRE UNDERWRITERS, THE CANADIAN GAS ASSOCIATION, THE LOCAL BUILDING CODE, AND ALL REQUIREMENTS OF THE LOCAL UTILITY COMPANY AND BY-LAWS. POST BUILDING PERMIT AT SITE IN ACCORDANCE WITH O.B.C. REQUIREMENTS.
- VISIT THE SITE BEFORE SUBMITTING TENDERS TO EVALUATE ANY SITE CONDITIONS THAT MIGHT ARISE. INCLUDE ALL SITE CONDITIONS IN TENDER, EXTRAS WILL NOT BE ACCEPTED UNLESS BELIEVED TO BE REASONABLE BY THE OWNER AND CONSULTANT.
- COORDINATE WITH OTHER CONTRACTOR INSTALLING EQUIPMENT OR MATERIAL AND ARRANGE EQUIPMENT IN PROPER RELATION WITH ALL OTHER TRADES. ENSURE SYSTEMS ARE SERVICEABLE.
- CUTTING AND PATCHING SHALL BE BY THE CONTRACTOR REQUIRED TO INSTALL THE SERVICE.
- THE DRAWINGS ARE DIAGRAMMATIC. THE SERVICES SHALL BE INSTALLED TO CONSERVE HEADROOM AND INTERFERE AS LITTLE AS POSSIBLE WITH THE FREE USE OF THE SPACES THROUGH WHICH THEY PASS.
- PROVIDE TWO MARKED COPIES OF "RECORD DRAWINGS" SHOWING THE SYSTEM AS INSTALLED. THE CAD DRAWINGS FILES WILL BE PROVIDED TO THE OWNER AS PART OF THE MAINTENANCE MANUALS.
- THE MECHANICAL SYSTEMS OF THIS BUILDING MUST ACHIEVE THE ENERGY EFFICIENCY LEVELS BY CONFORMING TO ANSI/ASHRAE/IESNA 90.1 "ENERGY STANDARD FOR BUILDINGS EXCEPT LOW-RISE RESIDENTIAL BUILDINGS" AND CHAPTER 2 OF DIVISION 3 OF 58-10 PRESCRIPTIVE METHOD FROM THE ONTARIO BUILDING CODE.
- ALL EQUIPMENT AND MATERIAL SHALL BE NEW. REPLACE ALL DAMAGED EQUIPMENT.
- MATERIAL AND EQUIPMENT ARE NAMED IN THE SPECIFICATION TO ESTABLISH AN ACCEPTABLE STANDARD OF MATERIALS AND THE QUALITY OF WORKMANSHIP BY WHICH TO ADHERE.
- SUBMIT SIX (6) COPIES OF SHOP DRAWINGS FOR ALL EQUIPMENT. THESE WILL BE REVIEWED BY THE CONSULTANT. RESUBMIT AS OFTEN AS MAY BE FOUND NECESSARY.
- PROVIDE ALL NECESSARY PROTECTION FOR FINISHED OR UNFINISHED WORK. ALL OPENINGS IN PIPES, DUCTS AND EQUIPMENT SHALL BE CAPPED TO ENSURE SERVICES ARE KEPT CLEAN WHEN NOT IN USE.
- MAINTAIN INSURANCE TO FULLY PROTECT THE CONTRACTOR, OWNER AND CONSULTANT FROM ANY AND ALL CLAIMS SUCH AS UNDER THE WORKMEN'S COMPENSATION ACT, ETC. POST PROJECT NOTIFICATION AT THE SITE IN ACCORDANCE WITH THE MINISTRY OF LABOUR REQUIREMENTS.
- EXCAVATION AND BACK FILLING SHALL BE BY THE TRADE INSTALLING THE SERVICE. PROVIDE COMPACTED 'A' GRAVEL FOR BEDDING AND BACKFILLING AS INDICATED. REMOVE SURPLUS MATERIAL FROM SITE.
- PROVIDE STRUCTURAL SUPPORTS, PLATFORMS, SUPPORTING RODS, HANGERS, INSERTS AND BRACKETS FOR EQUIPMENT AND SERVICES. DO NOT SUPPORT SERVICES FROM STEEL DECK.
- INSTRUCT THE OWNER'S STAFF IN THE CARE, MAINTENANCE AND OPERATION OF THE SYSTEMS.
- SUBMIT THREE (3) COPIES OF OPERATING AND MAINTENANCE INSTRUCTIONS IN A 3 RING BINDER LABELED FOR THE PROJECT. PROVIDE ADDITIONAL ELECTRONIC COPY.
- REMOVE ALL PROTECTIVE COVERINGS, CLEAN AND POLISH ALL EQUIPMENT, FREE ALL OBSTRUCTIONS, CLEAN AND REPLACE ALL FILTERS WITH NEW, AND LEAVE ALL KEYS AND WRENCHES WITH THE OWNER.
- ALL SURPLUS AND WASTE MATERIALS SHALL BE PROMPTLY REMOVED FROM THE PREMISES.
- ALL AREAS NOT AFFECTED BY RENOVATION OR DEMOLITION SHALL REMAIN AS PRESENTLY INSTALLED UNLESS NOTED OTHERWISE.
- THE OWNER WILL DECIDE WHICH ITEMS OR EQUIPMENT SLATED FOR REMOVAL THAT THEY WISH TO RETAIN AS THEIR PROPERTY AND THIS CONTRACTOR SHALL REMOVE ALL OTHER MATERIALS FROM THE PREMISES.
- PROVIDE LAMICOID TAGS FOR IDENTIFICATION OF NEW EQUIPMENT ADDED.
- ALL ELECTRICAL LINE AND LOW VOLTAGE WIRING WHICH IS TO BE PROVIDED BY THE MECHANICAL CONTRACTOR AS SPECIFIED ELSEWHERE HEREIN SHALL BE RUN IN EMT CONDUIT TO STANDARDS OF THE ELECTRICAL DIVISION.
- WARRANTY ALL MATERIAL AND EQUIPMENT FOR A PERIOD OF ONE (1) YEAR AFTER FINAL ACCEPTANCE OF SYSTEM.
- PIPE SLEEVES
PROVIDE SCHEDULE 40 STEEL PIPE SLEEVES AT POINTS WHERE PIPES PASS THROUGH MASONRY, CONCRETE OR FIRE RATED ASSEMBLIES AND AS INDICATED. GROUT SLEEVES IN PLACE. MINIMUM 6 MM (1/4") CLEARANCE ALL AROUND, BETWEEN SLEEVE AND UNINSULATED PIPE OR BETWEEN SLEEVE AND INSULATION. CAULK BETWEEN SLEEVE AND PIPE IN FOUNDATION WALLS AND BELOW GRADE FLOORS WITH WATERPROOF FIRE RETARDANT NON-HARDENING MASTIC. WHERE SLEEVES PASS THROUGH WALLS OR FLOORS, PROVIDE SPACE FOR FIRESTOPPING. WHERE PIPES PASS THROUGH FIRE RATED WALLS, FLOORS AND PARTITIONS, MAINTAIN FIRE RATING INTEGRITY. ENSURE NO CONTACT BETWEEN COPPER TUBE OR PIPE AND FERROUS SLEEVE. FILL FUTURE-USE SLEEVES WITH LIME PLASTER OR OTHER EASILY REMOVABLE FILLER. COAT EXPOSED EXTERIOR SURFACES OF FERROUS SLEEVES WITH HEAVY APPLICATION OF ZINC RICH PAINT TO CSSB 1-GP-181M+AMD1-MAR-78.

26. DUCT SLEEVES
PROVIDE MINIMUM 20 GAUGE DUCT SLEEVES WHERE DUCTS PASS THROUGH MASONRY, CONCRETE OR FIRE RATED ASSEMBLIES. MAINTAIN MINIMUM 25 MM CLEARANCE ALL AROUND OR TO THE REQUIREMENTS OF THE AUTHORITY HAVING JURISDICTION. SEAL AT WALL AS INDICATED. WHERE DUCTS PASS THROUGH FIRE RATED WALLS, FLOORS AND PARTITIONS, MAINTAIN FIRE RATING INTEGRITY.

27. ACCESS DOORS
PROVIDE ACCESS DOORS TO CONCEALED MECHANICAL EQUIPMENT FOR OPERATING, INSPECTING, ADJUSTING AND SERVICING. FLUSH MOUNTED 600 X 600 MM (24" X 24") FOR BODY ENTRY AND 300 X 300 MM (12" X 12") FOR HAND ENTRY UNLESS OTHERWISE NOTED. DOORS TO OPEN 180°, HAVE ROUNDED SAFETY CORNERS, CONCEALED HINGES, SCREWDRIVER LATCHES AND ANCHOR STRAPS.

MATERIAL: SPECIAL AREAS SUCH AS TILED OR MARBLE SURFACES: USE STAINLESS STEEL WITH BRUSHED SATIN OR POLISHED FINISH AS DIRECTED BY CONSULTANT. REMAINING AREAS: USE PRIME COATED STEEL. FIRE RATED AREAS: PROVIDE ULC LISTED ACCESS DOORS

INSTALLATION: LOCATE SO THAT CONCEALED ITEMS ARE ACCESSIBLE. LOCATE SO THAT HAND OR BODY ENTRY (AS APPLICABLE) IS ACHIEVED.

ACCEPTABLE MATERIALS:
LE HAGE
ZURN
ACUDOR
NAILOR INDUSTRIES INC.

PART B DEMOLITION NOTES

- THIS PROJECT IS ONE OF A RETROFIT NATURE IN PART, AND WHICH WILL REQUIRE SOME DEMOLITION. ALLOW FOR ALL REMEDIAL WORK IN AREAS INDICATED ON THE DRAWINGS AND AS GENERALLY DEFINED IN THE RELEVANT SECTIONS OF THE SPECIFICATIONS.
- THE SCOPE OF WORK IS ESSENTIALLY THE SELECTED DISCONNECTION AND/OR REMOVAL OF SERVICES AND/OR EQUIPMENT, PIPING, DUCTWORK ETC. AS INDICATED OR REQUIRED TO COMPLETE THE WORK.
- THIS DIVISION IS TO LIAISE WITH THE OWNERS OR CONSULTANT FOR EQUIPMENT BEING REMOVED THAT MAY BE SUITABLE FOR REUSE TO THAT SPECIFIED OR HANDED OVER TO THE OWNER.
- THIS DIVISION TO TAKE FULL RESPONSIBILITY FOR ANY SPECIAL TOOLS OR EQUIPMENT REQUIRED TO DISASSEMBLE OR REMOVE MATERIAL FROM BUILDING.
- THE GENERAL EXECUTION OF THE DEMOLITION IS TO BE CARRIED OUT IN A CLEAN AND EFFICIENT MANNER.
- DEMOLITION OF EXISTING CEILING, WALLS ETC., TO FACILITATE REMOVAL OF EXISTING SERVICES OR EQUIPMENT OR INSTALLATION OF NEW TO BE KEPT TO A MINIMUM AND THEN RESTORED TO MATCH EXISTING.
- ALL OPENINGS OR HOLES CREATED BY REMOVAL OF EXISTING MECHANICAL SYSTEMS WHICH ARE NOT BEING REUSED ARE TO BE PATCHED WITH THE SAME MATERIAL SURROUNDING SURFACES.
- PROTECT ALL EXISTING FURNISHINGS MATERIALS AND EQUIPMENT. ANY DAMAGE OCCURRING AS A RESULT OF THE WORK OF THIS DIVISION SHALL BE REPAIRED OR REPLACED AT THE EXPENSE OF THIS DIVISION.
- WHERE WORK INVOLVES BREAKING INTO OR CONNECTING TO EXISTING SERVICES, CARRY OUT WORK AT TIMES DIRECTED BY THE OWNERS IN AN EXPEDIENT MANNER WITH MINIMUM DISRUPTION TO THE FACILITY AND SYSTEMS DOWNTIME.
- WHERE UNKNOWN SERVICES ARE ENCOUNTERED, IMMEDIATELY ADVISE CONSULTANT AND CONFIRM FINDINGS IN WRITING.
- WHERE THE LOCATION OF ANY SERVICES HAS BEEN SHOWN ON THE PLANS, SUCH INFORMATION IS NOT GUARANTEED. IT IS THIS DIVISION'S RESPONSIBILITY TO VERIFY LOCATIONS, INVERT ELEVATIONS, ETC., IMMEDIATELY AFTER MOVING ON SITE. SHOULD FOR ANY REASON THE INFORMATION OBTAINED NECESSITATES CHANGES IN PROCEDURE OR DESIGN, ADVISE THE CONSULTANT AT ONCE. IF VERIFICATION OF EXISTING CONDITIONS IS NOT DONE AT THE OUTSET AND ANY PROBLEMS ARISE, THE RESPONSIBILITY FOR SAME IS ENTIRELY THIS DIVISION'S.
- DISCONNECT AND/OR REMOVE EQUIPMENT PIPING, DUCTWORK, ETC. AS INDICATED.
- CAP AND CONCEAL ALL REDUNDANT AND OBSOLETE CONNECTIONS.
- PROVIDE A LIST OF EQUIPMENT TO BE REMOVED TO THE OWNER, FOR HIS ACCEPTANCE OF SAME. REMOVE ALL EQUIPMENT FROM SITE WHICH THE OWNER DOES NOT RETAIN.
- MAINTAIN EQUIPMENT TO BE RETAINED BY OWNER ON SITE WHERE DIRECTED BY CONSULTANT.
- DEMOLITION OF ALL PARTS OF THE WORK MUST BE COMPLETED WITHIN THE CONFINES OF THE WORK AREA AND IN SUCH A WAY AS THE DUST PRODUCED AND RISK TO INJURY OF LIFE NOT ADVERSELY AFFECT THE BUILDING USERS.
- DEMOLISHED AREAS OF THE EXISTING BUILDING WILL REMAIN IN THEIR CURRENT USE IN SOME CASES. DEMOLITION IN THESE AREAS MUST BE KEPT TO THE MINIMUM REQUIRED TO COMPLETE THE WORK.
- DEMOLITION SHALL TAKE PLACE WITHIN AREAS ISOLATED FROM ALL OTHER AREAS WITH APPROPRIATE HOARDING, SCAFFOLDING, NETTING, FENCING OR OTHER MEANS OF SECURITY BETWEEN BUILDING USERS AND THE WORK.
- CO-ORDINATE MAKING SAFE ELECTRICAL DEVICES, CAPPING PLUMBING AND REMOVAL OF FIXTURES PRIOR TO COMMENCEMENT OF DEMOLITION.
- ALL PIPING AND EQUIPMENT TO BE REMOVED AND/OR ABANDONED SHALL BE DRAINED PRIOR TO CAPPING AND/OR ABANDONING. DISPOSAL OF ALL LIQUIDS SHALL BE TO THE APPROVAL OF AUTHORITY OF HAVING JURISDICTION AND/OR PROVINCIAL REGULATIONS.
- DRAIN ALL EXISTING PIPING AND DRAINAGE SYSTEMS INCLUDING ALL RELATED EQUIPMENT AS REQUIRED TO FACILITATE SYSTEM RENOVATIONS.
- DISPOSAL OF EXISTING SYSTEM SHALL BE TO THE REQUIREMENTS OF THE LOCAL AND/OR PROVINCIAL REGULATIONS.

PART C PLUMBING NOTES

- CONTRACTOR TO PROVIDE POTABLE WATER CERTIFICATE FOR E. COLI AND COLIFORM FROM A RECOGNIZED TESTING LABORATORY UPON COMPLETION OF THE PROJECT. WATER IS TO BE TAKEN FROM A NEW FIXTURE TO TEST THE NEW PIPING INSTALLED.
- SERVICES
CONNECT TO EXISTING SERVICES WHERE SHOWN ON DRAWINGS.
- CODES AND REGULATIONS
SANITARY, SOIL WASTE, VENT, AND ALL WATER PIPING SHALL CONFORM AND BE INSTALLED TO THE ONTARIO PLUMBING CODE AND THE CANADIAN PLUMBING CODE, LATEST EDITION.
- TESTING
SANITARY PIPING: ALL SANITARY PIPING SHALL BE TESTED WITH WATER UNDER THE GUIDANCE OF THE LOCAL PLUMBING INSPECTOR. SMOKE TESTS OR ANY OTHER TEST REQUIRED BY THE PLUMBING INSPECTOR SHALL ALSO BE MADE. WATER PIPING: ALL WATER PIPING SHALL BE TESTED TO 150 PSI. PRESSURE FOR NOT LESS THAN FOUR HOURS WITHOUT A LOSS IN PRESSURE.

FLUSHING AND DISINFECTING
MAINTAIN TESTABLE RP BACKFLOW PREVENTER BETWEEN MUNICIPAL WATER AND NEW PLUMBING SYSTEM. ENSURE A MINIMUM OF 90% OF PLUMBING FIXTURES ARE INSTALLED. FLUSH WATER MAINS THROUGH AVAILABLE OUTLETS WITH A SUFFICIENT FLOW OF POTABLE WATER TO PRODUCE A VELOCITY OF 1.5 M/S, WITHIN PIPE FOR 10 MIN, OR UNTIL FOREIGN MATERIALS HAVE BEEN REMOVED AND FLUSHED WATER IS CLEAR WITH BACKFLOW PROTECTION. PROVIDE CONNECTIONS AND PUMPS FOR FLUSHING AS REQUIRED. OPEN AND CLOSE VALVES, AND OPERATE FIXTURES TO ENSURE THOROUGH FLUSHING. TAKE WATER SAMPLES AT REMOTE FIXTURES AND SERVICE CONNECTIONS.

- PIPE AND FITTINGS
SANITARY AND VENT DRAINS: (ABOVE GRADE), IPEX: PVC-XFR DRAIN WASTE AND VENT PIPE TO CAN/CSA-B181.2 . STORM, SANITARY AND VENT PIPING: (BELOW GRADE) PVC DRAINAGE PIPE TO SDR 35 WITH SOLVENT WELDED JOINTS. ABS DRAINAGE PIPE WITH SOLVENT WELDED JOINTS. WATER PIPING: TYPE L COPPER WITH LEAD FREE SOLDER JOINTS.
- VALVES
ISOLATION VALVES: HOT AND COLD WATER BRONZE BODY, CLASS 150, STAINLESS STEEL BALL, FULL PORT, PTFE SEAT AND PACKING, STEEL LEVER HANDLE. MILWAUKEE BA-455, CRANE, TOYO CHECK VALVES: HOT AND COLD WATER SIZES 1/2" DIAMETER TO 2" DIAMETER CRANE FIG. 1342, OR EQUAL JENKINS, BRONZE SWING CHECK, SOLDER ENDS. CRANE FIG. 29 OR EQUAL JENKINS VERTICAL LIFT CHECK VALVE, SCREWED ENDS ON VERTICAL PIPING.
- CLEANOUTS
CLEANOUTS: PROVIDE AND SET CLEANOUT PLUGS IN ALL DRAINS AND SOIL PIPE LINES WHERE OBSTRUCTIONS MAY BE FOUND, AT CHANGES OF DIRECTION, AT THE BASE OF ALL SANITARY STACKS AND AT INTERVALS. LENGTHS TO THE ONTARIO PLUMBING CODE. CLEANOUTS SHALL BE FULL SIZES OF PIPES UP TO 4" DIAMETER AND NOT LESS THAN 4" DIAMETER FOR LARGER PIPES. ANCON CO-100-R OR EQUAL.
- INDIVIDUAL THERMOSTATIC WATER CONTROLLER
1/2" INLETS AND OUTLETS, CHECK STOPS, REMOVABLE CARTRIDGE WITH STRAINER, ROUGH BRONZE FINISH, SHUT-OFF VALVES. ACCEPTABLE MANUFACTURER: POWERS LM490 OR EQUAL.
- TRAP PRIMERS
TRAP PRIMERS: ALL TRAPS WHERE REQUIRED BY THE CODE TO BE PRIMED OR WHERE SHOWN ON THE DRAWINGS SHALL HAVE ZURN Z-1022 OR EQUAL TRAP SEAL PRIMER INSTALLED IN THE NEAREST COLD WATER LINE TO THE TRAP. TRAP PRIMER SHALL BE CONGEALED, PROVIDE ACCESS DOOR.
- PLUMBING FIXTURES
FIXTURES AS LISTED ON THE DRAWINGS. ALL FIXTURES MUST BE NEW AND CLEAN WHEN THE WORK IS TAKEN OVER BY THE OWNER. ALL PLUMBING FIXTURES SHALL BE EQUIPPED WITH SUPPLY VALVES, FAUCETS, TRAPS, SUPPORTS, WATER CONNECTIONS, ESCUTCHEONS, HANGERS, BOLTS, ETC. FIXTURES SHALL BE CRANE OR EQUAL AMERICAN STANDARD, KOHLER. TRAPS: 2" DIAMETER AND SMALLER, SHALL BE CAST BRASS AND CHROME PLATED IN EXPOSED AREAS. ALL SINK TRAPS SHALL BE TWO PIECE CONSTRUCTION. ALL TRIM MUST BE CAMBRIDGE BRASS OR EQUAL. ON COMPLETION ALL FIXTURES, ACCESSORIES AND EXPOSED PIPING SHALL BE THOROUGHLY CLEANED AND LEFT READY FOR USE. AFTER FINAL INSPECTION BY THE PLUMBING INSPECTOR CALK AROUND BASE OF ALL FIXTURES TO THE WALL OR FLOOR WITH SILICONE CALKING.
- PIPE INSULATION
INSULATE ALL DOMESTIC HOT AND COLD WATER PIPING AND STORM PIPING ABOVE GRADE, WITH 1" (FOR PIPING UNDER 1 1/2" DIAMETER) OR 1 1/2" (FOR PIPING 1 1/2" DIAMETER AND HIGHER) FIBERGLASS INSULATION WITH VAPOUR BARRIER. INSTALL AS PER MANUFACTURERS RECOMMENDATIONS. RECOVER EXPOSED PIPING WITH PVC JACKET.

PART E HEATING, AIR CONDITIONING, AND VENTILATION NOTES

- DUCTWORK TO BE CONSTRUCTED TO SMACNA STANDARDS, MEDIUM STATIC PRESSURE WITH LEAKAGE RATE OF 5% MAXIMUM. FABRICATED IN ACCORDANCE WITH RECOMMENDATIONS OF SMACNA AND ASHRAE. SEAL ALL TRANSVERSE AND LONGITUDINAL JOINTS WITH DUCT SEALER.
- DUCT CONSTRUCTION:
ROUND AND OVAL: DUCTS: FACTORY FABRICATED, SPIRAL WOUND, WITH MATCHING FITTINGS AND SPECIALS TO SMACNA. TRANSVERSE JOINTS UP TO 900 MM (36"): SLIP TYPE WITH TAPE AND SEALANTS.
- SQUARE AND RECTANGULAR:
DUCT: TO SMACNA. TRANSVERSE JOINTS, LONGEST SIDE: UP TO AND INCLUDING 750 MM (30"): SMACNA PROPRIETARY DUCT JOINTS.
SHOWER EXHAUST ALUMINUM: TO ASHRAE AND SMACNA. ALUMINUM TYPE: 3003-H-14.
THICKNESS, FABRICATION AND REINFORCEMENT: TO ASHRAE AND SMACNA OR AS INDICATED.
JOINTS: TO ASHRAE AND SMACNA
ACCEPTABLE MATERIAL: DUCTMATE CANADA LTD.
- DAMPERS
SPLITTER DAMPERS WITH CONTROL ROD WITH LOCKING DEVICE ON EXTERIOR OF DUCT. DAMPERS TO BE SINGLE THICKNESS ONE GAUGE HEAVIER THAN CUT AIRFOIL SHAPE DOUBLE THICKNESS ONE GAUGE HEAVIER THAN DUCT. BALANCING SINGLE BLADE BALANCING DAMPERS WITH LOCKING QUADRANT. ROUND BALANCING DAMPERS TO BE 1/16" THICK.
RECTANGULAR BALANCING DAMPERS TO BE 1/16" THICK. MULTI-LEAF OPPOSED BLADE DAMPERS DESIGNED TO SMACNA DETAILS WITH LOCKING QUADRANT. MANUFACTURED ADJUSTABLE EXTRACTORS TO BE WITH ADJUSTMENT ROD. ACCEPTABLE PRODUCTS: TITUS, NAILOR APPROVED DAMPERS OF THICKNESS' AND TYPES OF CONSTRUCTION IN ACCORDANCE WITH SMACNA DUCT CONSTRUCTION STANDARDS.
- FLEXIBLE CONNECTIONS
AT ALL DUCT CONNECTIONS TO FANS AND AIR HANDLING UNITS. NEOPRENE COATED GLASS FABRIC, NOT MORE THAN 6" LONG BETWEEN METAL PARTS INSTALLED SUFFICIENT SLACK TO PREVENT VIBRATION TRANSMISSION. ALLOW MOVEMENT (2") TO LOW PRESSURE FANS.
- GRILLES/DIFFUSERS
GRILLES/DIFFUSERS SHALL BE THE SAME MANUFACTURER. TYPE AS SHOWN ON THE DRAWING.
ACCEPTABLE MATERIALS: KRUEGER, E.H. PRICE, TITUS, NAILOR, TUTTLE & BAILEY, METALAIR.
- DUCTWORK INSULATION
ON THE LAST 5'-0" OF ALL EXHAUST DUCTS, INCLUDING PLENUM AND ALL AIR INTAKE DUCTWORK. FIBERGLASS FOIL FACED RIGID DUCT INSULATION 1" THICK TYPE PF-335-3/4 LB. DENSITY WITH RFRFK FACING. GLUE AND PIN AS PER MANUFACTURERS RECOMMENDATIONS.
ON ALL OUTDOOR AIR DUCTWORK, FIBREGLASS FOIL FORCED RIGID DUCT INSULATION 3" THICK TYPE PF-335-3/4 LB DENSITY WITH RFRFK FACING, GLUE AND PIN.
RECOVER ALL EXTERIOR DUCTWORK WITH TWO COATS OF MASTIC SEALER AND 2B GAUGE PREFINISHED METAL FLASHING WITH CROSSBREAKS AND STANDING SEAMS AND BUTTWOOK JOINTS. COLOUR TO MATCH BUILDING FLASHINGS. LABEL DUCTWORK WITH STAMPED LABEL INDICATING TYPE AND FLOW DIRECTION. LABEL IN EACH ROOM VISIBLE FROM ACCESS POINTS.
- SYSTEM BALANCING
BALANCE AIR AND WATER SYSTEMS USING NEBB CERTIFIED FIRM AND AS PER NEBB REQUIREMENTS TO WITHIN 5% OF TOTAL SYSTEM CAPACITY. PROVIDE 3 COPIES OF BALANCING REPORTS C/W SYSTEM SCHEMATICS.

The contractor shall verify all dimensions and report all errors and discrepancies to the Consultant before commencement of the work.
The drawings show general arrangement of services. Follow as closely as actual building construction will permit. Obtain approval for relocation of service from Consultant before commencement of the work.
The drawings do not indicate all offsets fitting and accessories which may be required. Provide the same to meet the required conditions.
Drawings and specifications, etc., prepared and issued by the consultant are the property of the consultant and must be returned at the completion of the project. These documents are not to be duplicated or copied without the consent of the Consultant.
Do not scale this drawing.
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| NO. | ISSUES | DATE | BY |
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| 1 | ISSUED FOR REVIEW | 24/03/08 | MW |
| 2 | ISSUED FOR PERMIT & TENDER | 24/04/18 | MW |
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PROJECT:
COLDWATER PUBLIC SCHOOL INTERIOR RENOVATIONS

3 JOHN ST. WEST , COLDWATER, ON
SCDSB - COLDWATER PUBLIC SCHOOL

DRAWING:
MECHANICAL SPECIFICATION

BARRY BRYAN ASSOCIATES

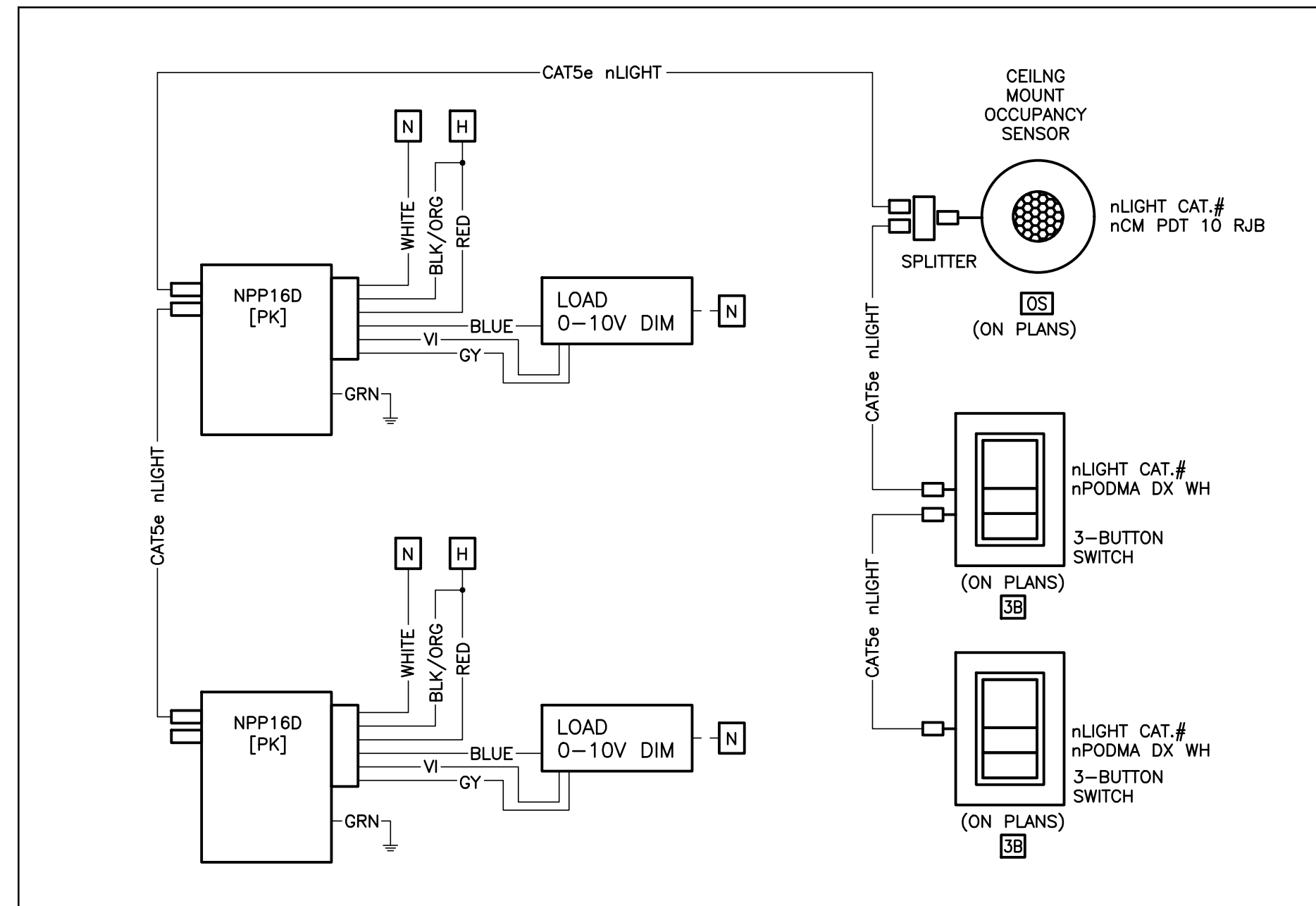
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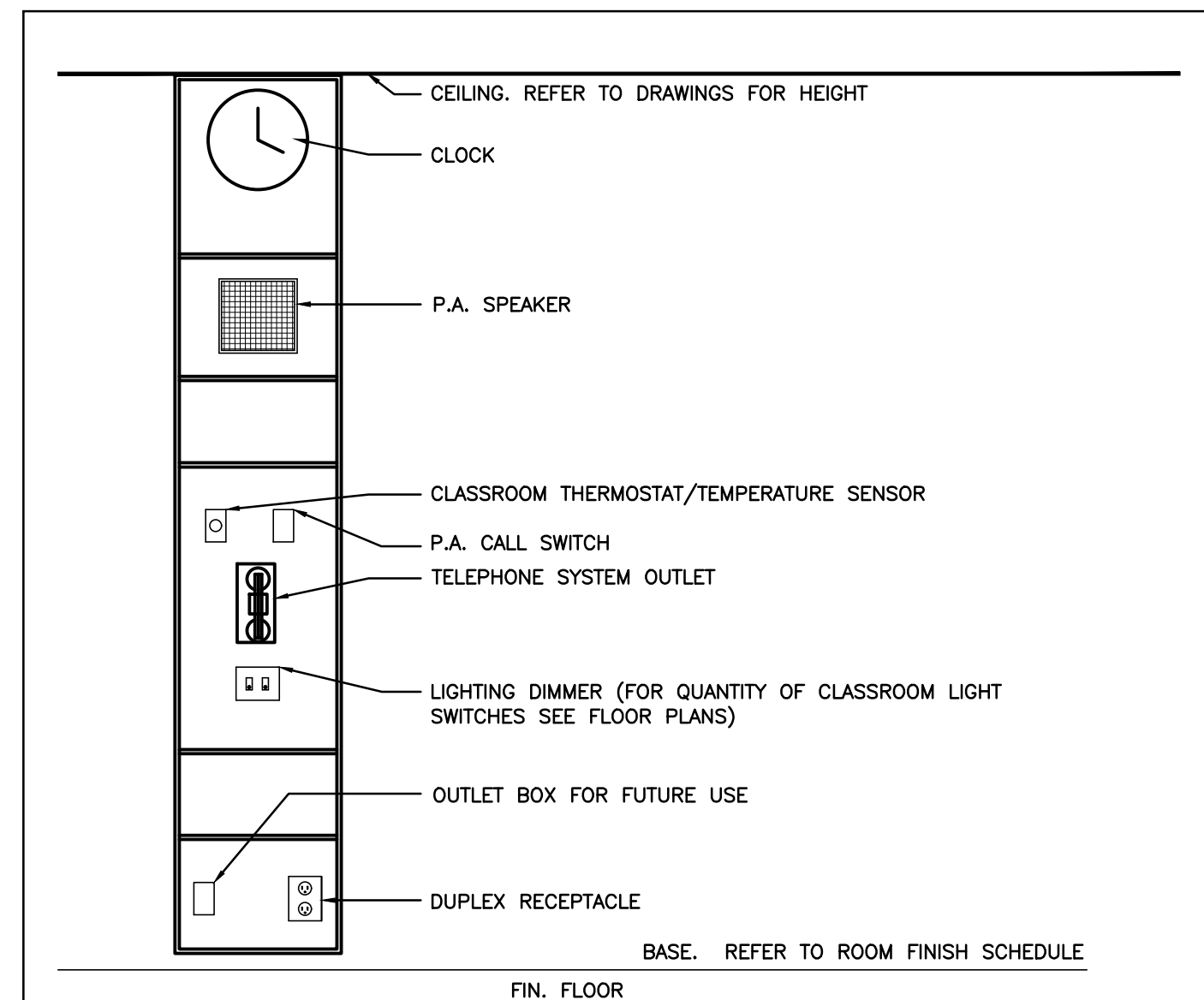
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NOTES:

- POWER PACKS ARE TO BE MOUNTED ON A JUNCTION BOX IN CEILING SPACE.
- CONTROL WIRING AS INDICATED BY MANUFACTURER IS TO BE PLENUM RATED CAT5E CABLE C/W RJ45 CONNECTORS.
- ENSURE CEILING MOUNTED OCCUPANCY SENSOR IS INSTALLED IN AN OUTLET BOX AND IS MOUNTED A MINIMUM OF 605mm (24") FROM DIFFUSERS AND 300mm (12") FROM LIGHT FIXTURES.
- SWITCHES SHALL BE AS NOTED ON DRAWINGS.
- REFER TO FLOOR PLANS FOR QUANTITIES OF INDICATED DEVICES.
- INDICATED CATALOGUE NUMBERS ARE FOR nLIGHT PRODUCTS. EQUALS ARE ACCEPTABLE FROM THE FOLLOWING MANUFACTURERS:
- WATSTOPPER
- GREENGATE
- THE MANUFACTURER'S REPRESENTATIVE IS TO PROVIDE AN ON SITE COMMISSIONING SESSION WITH THE CONTRACTOR AND/OR CONSULTANT TO CONFIRM OPERATION.
- AS AN OPTION, THE CONTRACTOR/SUPPLIER MAY REVISE THESE DEVICES TO A SINGLE DIGITAL ROOM CONTROLLER. IF SO, POWER MUST BE PROVIDED TO THE CONTROLLER FROM THE LINE SIDE OF THE ROOM'S LIGHTING CIRCUIT. IF AN ADDITIONAL WIRING METHOD IS REQUIRED BY THE MANUFACTURER THE CONTRACTOR MUST INCLUDE ALL COSTS IN TENDER.
- LOW VOLTAGE, 0-10V PLENUM RATED CONTROL WIRING AS INDICATED BY MANUFACTURER.
- COMMISSIONING REPORT IS TO BE INCLUDED IN THE OWNER'S MANUAL.

A-CLASSROOM LIGHTING WIRING DIAGRAM
SCALE: N.T.S.



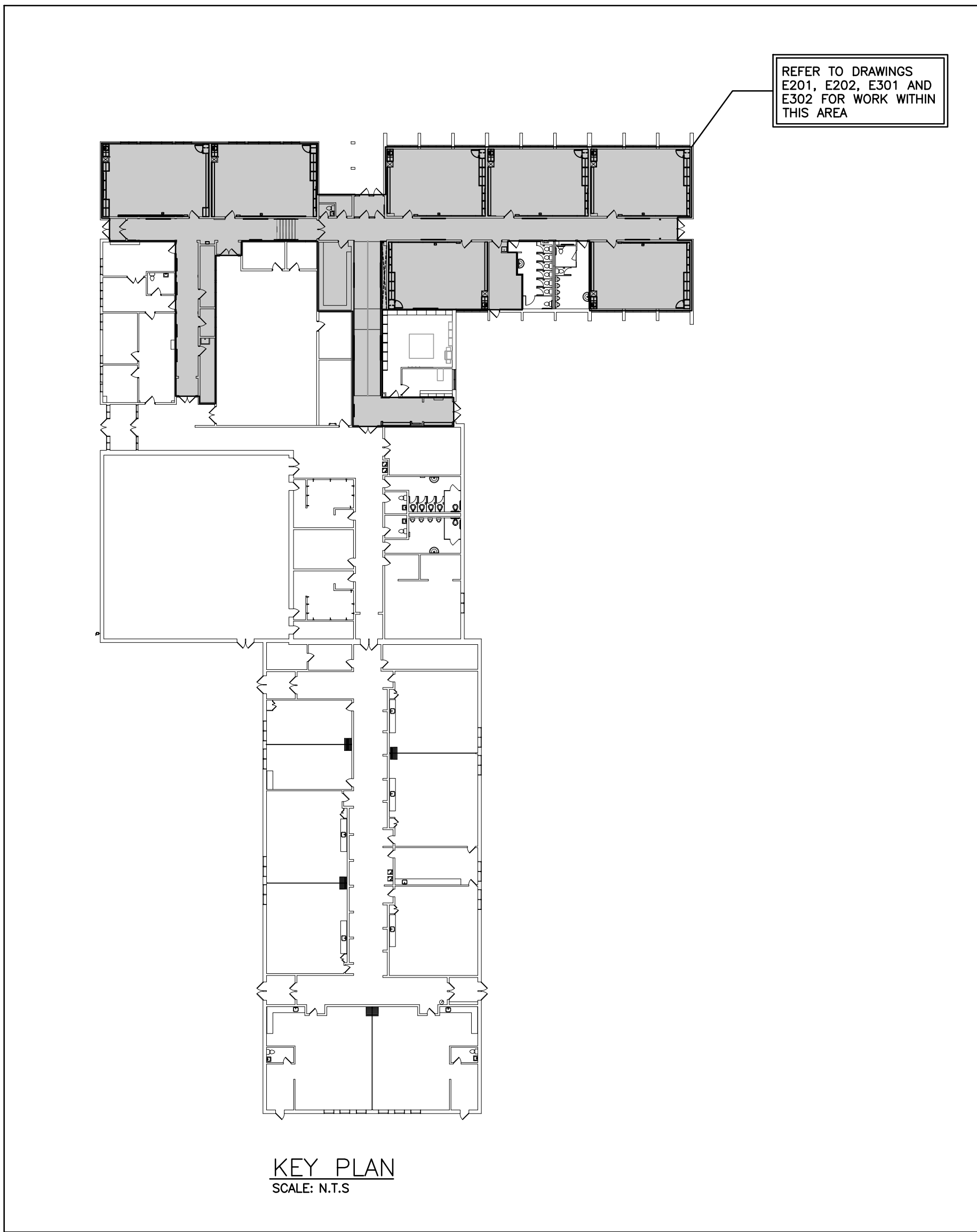
B-EXISTING CONTROL PANEL DETAIL
SCALE: NTS

LIGHTING CONTROL SYSTEMS SEQUENCE OF OPERATION

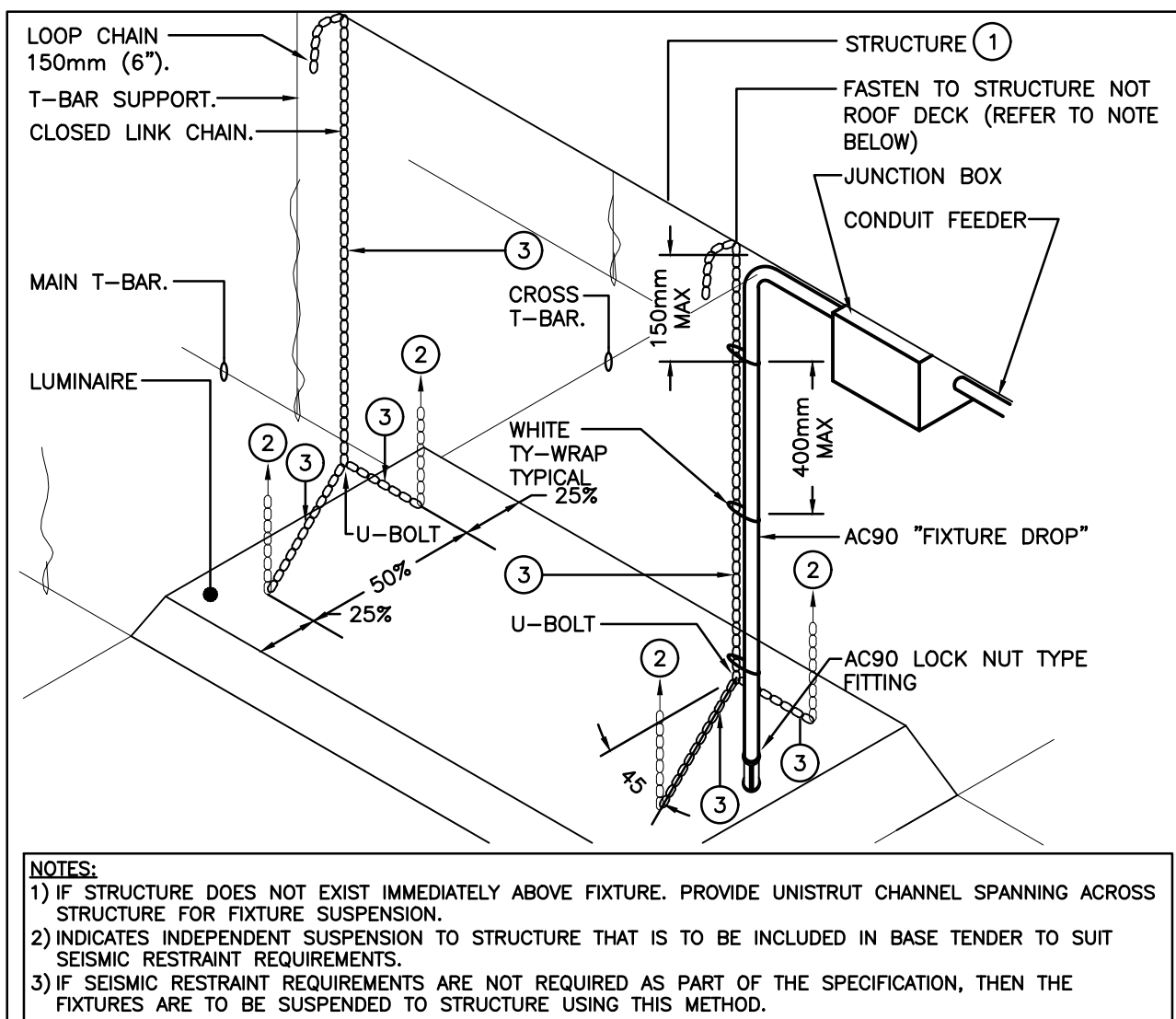
| Space Type | Room Names | Control Sequence / Control Device(s): | Control System | DETAIL REFERENCE |
|------------|------------|---|-----------------------------------|------------------|
| Classrooms | TYPICAL | Sequence: MANUAL ON: LZ-1 AND LZ-2 MANUAL ON THROUGH WALL SWITCH/AUTOMATIC OFF THROUGH OCCUPANCY SENSOR/MANUAL OFF - RAISE/LOWER DIMMER THROUGH WALL SWITCH - LIGHTS SET TO 70% LIGHT OUTPUT. AUTO OFF: 5 MINUTES AFTER THE ROOM HAS BEEN VACATED, THE LIGHTS WILL AUTOMATICALLY TURN OFF. | DIGITAL OCCUPANCY CONTROL SYSTEM | (A) E101 |
| Storage | TYPICAL | Sequence: AUTOMATIC ON/AUTOMATIC OFF: OCCUPANCY SENSOR SET TO 30 MINUTES. DELAY ONCE THE ROOM HAS BEEN VACATED, THE LIGHTS WILL AUTOMATICALLY TURN OFF. | OCCUPANCY CONTROL SYSTEM AS SHOWN | |

NOTES:

- ALL INDICATED TIMES SHALL BE COORDINATED WITH SCHOOL BOARD REPRESENTATIVE. REPORT ANY DISCREPANCIES BETWEEN SEQUENCE AND CONTROL DEVICES TO ENGINEER PRIOR TO PROGRAMMING. COORDINATE PROGRAMMING OF ANY SPACES NOT LISTED WITH BOARD REPRESENTATIVE (EXCLUDING SERVICE ROOMS).
- REFER TO SPECIFICATIONS FOR FURTHER INFORMATION REGARDING COMMISSIONING AND 3RD PARTY FUNCTIONAL TESTING OF LIGHTING CONTROL SYSTEMS.



KEY PLAN
SCALE: N.T.S.



- NOTES:**
- IF STRUCTURE DOES NOT EXIST IMMEDIATELY ABOVE FIXTURE, PROVIDE UNISTRUT CHANNEL SPANNING ACROSS STRUCTURE FOR FIXTURE SUSPENSION.
 - INDICATES INDEPENDENT SUSPENSION TO STRUCTURE THAT IS TO BE INCLUDED IN BASE TENDER TO SUIT SEISMIC RESTRAINT REQUIREMENTS.
 - IF SEISMIC RESTRAINT REQUIREMENTS ARE NOT REQUIRED AS PART OF THE SPECIFICATION, THEN THE FIXTURES ARE TO BE SUSPENDED TO STRUCTURE USING THIS METHOD.

C-LUMINAIRE SUSPENSION DETAIL
SCALE: NTS

| ELECTRICAL SYMBOLS | | NOTE: ALL SYMBOLS MAY NOT BE USED | |
|---|---|-----------------------------------|---|
| GENERAL | | LIGHTING | |
| ER | INDICATED EXISTING ITEM TO REMAIN | [Symbol] | LIGHT FIXTURE TYPE AS INDICATED |
| D | INDICATES EXISTING ITEM TO BE DELETED | [Symbol] | CEILING MOUNTED EXIT LIGHT ARROW DENOTES DIRECTION SHADING INDICATES FACE |
| R | INDICATES EXISTING ITEM TO BE RELOCATED/IN RELOCATED POSITION | [Symbol] | TWIN EMERGENCY LIGHTING FIXTURE |
| GF | GROUND FAULT | [Symbol] | BATTERY UNIT WITH INTEGRAL TWIN EMERGENCY FIXTURE (EM-X INDICATES BATTERY UNIT TYPE, DC-X INDICATES DC CIRCUIT, AND X-X INDICATES AC SOURCE CIRCUIT) |
| WP | WEATHERPROOF | [Symbol] | SINGLE POLE SWITCH (3=3 WAY, 4=4 WAY, P=PILOT LIGHT, K=KEYED, DM=DIMMER, M=MOTOR RATED) |
| WG | WIREGUARD | [Symbol] | WALL SWITCH OCCUPANCY SENSOR W/ PASSIVE DUAL TECHNOLOGY - LINE VOLTAGE, WHITE FINISH. |
| CLG | CEILING MOUNTED | [Symbol] | CEILING MOUNTED MOTION SENSOR |
| (X) | NOTE INDICATOR | [Symbol] | POWER PACK LOCATED IN CEILING SPACE |
| (X) | MECHANICAL ITEM NO. | [Symbol] | DENOTES NUMBER OF BUTTONS. AS NOTED ON DRAWING. |
| STANDARD CIRCUIT LABELING | | [Symbol] | LZ-# LIGHTING ZONE (# INDICATES ZONE NUMBER) |
| POWER PANEL LABEL CIRCUIT INDICATION SWITCH LEG (IF APPLICABLE) | | [Symbol] | COMMUNICATIONS |
| POWER | | [Symbol] | SINGLE WALL MOUNTED TELEPHONE OUTLET C/W 3/4" (13mm) C TO CABLE MANAGEMENT SYSTEM. |
| [Symbol] | DIRECT CONNECTION | [Symbol] | SINGLE COMPUTER OUTLET C/W 3/4" (21mm) C TO CABLE MANAGEMENT SYSTEM. |
| [Symbol] | PANEL AS INDICATED | [Symbol] | COMBINATION SINGLE VOICE/ SINGLE COMPUTER OUTLET UNLESS OTHERWISE NOTED C/W 1" (27mm) C TO CABLE MANAGEMENT SYSTEM. # INDICATES THE QUANTITY OF ACTIVE PARTS. LEFT VALUE ALWAYS INDICATES VOICE |
| [Symbol] | FUSED DISCONNECT | [Symbol] | WIRELESS ACCESS POINT, PROVIDE 3/4" (21mm) C TO CABLE MANAGEMENT SYSTEM |
| [Symbol] | UNFUSED DISCONNECT | [Symbol] | AV OUTLET AS NOTED |
| [Symbol] | MANUAL STARTER | [Symbol] | FIRE ALARM |
| [Symbol] | MAGNETIC STARTER | [Symbol] | SMOKE DETECTOR (RL-RELAY BASE) |
| [Symbol] | COMBINATION MAGNETIC STARTER | [Symbol] | ALARM HORN |
| [Symbol] | TRANSFORMER | [Symbol] | COMBINATION HORN/STROBE |
| SECURITY | | [Symbol] | HEAT DETECTOR (135 DEGREE RATE OF RISE AND FIXED TEMPERATURE) |
| [Symbol] | SECURITY DETECTOR (SURFACE MOUNTED) | [Symbol] | END-OF-LINE RESISTOR |

LIGHT FIXTURE SCHEDULE

| Item | Manufacturer/Catalog Number | Voltage | Lamp | Mounting | Description |
|--------------|---|----------|------------------------------------|--------------|---|
| A | LITHONA CAT. #2BLT4-40L-ADP-GZ1-LP840 | 120V | LED 4312 LUMENS 4000K 30.5W | RECESSED | 2'x4' (610mmx1220mm) SHALLOW VOLUMETRIC LED FIXTURE C/W RIBBED FROSTED ACRYLIC LENS AND 0-10V DIMMING DRIVER. |
| B | LITHONA CAT. #LBR6-ALD1-SWV1-AR-LSS-MWD-1VOLT-UGZ-LBRGR78 | 120V | LED 1000 LUMENS 4000K 10.4W | RECESSED | 6" (152.4mm) ROUND LED DOWNLIGHT C/W CLEAR REFLECTOR, ADJUSTABLE LUMEN OUTPUT AND 0-10V DIMMING DRIVER. |
| C | LITHONA CAT. #BLT4-40L-ADP-GZ1-LP840 C/W 1X4SMKSHIP PAF | 120V | LED 4049 LUMENS 4000K 32.1W | SURFACE | 1'x4' (305mmx1220mm) SHALLOW VOLUMETRIC LED FIXTURE C/W RIBBED FROSTED ACRYLIC LENS, 0-10V DIMMING DRIVER AND SURFACE MOUNT TROFFER KIT. |
| E | LITHONA CAT. #CSS-L48-AL03-1VOLT-SWV3-BOCR | 120V | LED 3931 LUMENS 4000K 21.3W | SURFACE | 4' (1220mm) SWITCHABLE LED STRIP LIGHT C/W DIFFUSE ACRYLIC LENS. SET FIXTURES TO "LOW" AND 4000K SETTINGS |
| F | LITHONA CAT. #WL2-218L-GZ1-LP840 | 120V | LED 1889 LUMENS 4000K 17.5W | WALL MOUNTED | 2' (610mm) WALL BRACKET AND SURFACE MOUNTED LED C/W WHITE FINISH. |
| EXIT LIGHTS | BEGHELLI CAT. #ORLUMSWMRMLR STANPRO CAT. #RMXLOWHJDC AMLITE CAT. #PALUMWHTUNDC | 12V/120V | 2.5 WATT (MAX) JAC 2 WATT (MAX) DC | SURFACE | LED EXTRUDED ALUMINUM PICTOGRAM FIXTURE C/W GREEN FACE AND WHITE LEGEND, UNIVERSAL MOUNTING TO SUIT WALL, END OR CEILING AND MAXIMUM 63mm (2.5") THICKNESS. |
| EMERG LIGHTS | BEGHELLI CAT. #SR-10LED & SR-20LED STANPRO CAT. #N112V4WLJ & N213V4WLJ AMLITE CAT. #RMSM1124WLJWHT & RMSM2124WLJWHT | 12V | 4W MR16 | SURFACE | LED FIXTURE C/W COMPACT DESIGN WITH VARIABLE LIGHT PATTERN, WHITE COLOUR AND 360° ROTATION. |

- NOTES:**
- EQUAL MANUFACTURERS ARE LISTED IN THE SPECIFICATION. MANUFACTURERS/SUPPLIERS MUST CONFIRM THE PROPOSED FIXTURE BY EMAIL WITH CONSULTANTS OFFICE A MINIMUM OF ONE WEEK PRIOR TO TENDER CLOSE.
 - LED LUMEN VALUES QUOTED FOR FIXTURES ARE TO BE CONSIDERED MINIMUM, AND AS ABSOLUTE OR DELIVERED LUMENS. LUMEN VALUES SHOULD NOT EXCEED MORE THAN 10% OF SPECIFIED OUTPUT.
 - EQUAL MANUFACTURERS FOR THIS FIXTURE MUST CONTACT THE CONSULTANTS OFFICE A MINIMUM OF 10 CALENDAR DAYS PRIOR TO TENDER CLOSE TO OBTAIN AN ELECTRONIC VERSION OF THE SITE PLAN. THEY MUST THEN PROVIDE PHOTOMETRIC ANALYSIS FOR THE EXTERIOR FIXTURE LAYOUT INDICATED USING THEIR PROPOSED FIXTURE.

EQUIPMENT SCHEDULE

| ITEM | DESCRIPTION | POWER REQUIREMENTS | HARD WIRED | RECEPTACLE | WIRING/REMARKS |
|----------|--------------------|--------------------|------------|------------|--|
| (Symbol) | EXISTING PROJECTOR | 115/1/60 | N/A | 5-15R | EXISTING PROJECTOR TO BE RELOCATED BY THE C.C. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATION. |

The contractor shall verify all dimensions and report all errors and discrepancies to the Consultant before commencement of the work. The drawings show general arrangement of services. Follow as closely as actual building construction will permit. Obtain approval for relocation of service from Consultant before commencement of the work. The drawings do not indicate offsets fitting and accessories which may be required. Provide the same to meet the required conditions. Drawings and specifications, etc., prepared and issued by the consultant are the property of the consultant and must be returned at the completion of the project. These documents are not to be duplicated or copied without the consent of the Consultant. Do not scale this drawing. © 2024 DEI Consulting Engineers Inc.

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Simcoe County
District School Board

| NO. | ISSUES | DATE | BY |
|-----|----------------------------|----------|----|
| 1 | ISSUED FOR REVIEW | 24/03/08 | RV |
| 2 | ISSUED FOR PERMIT & TENDER | 24/04/18 | RV |

| NO. | REVISIONS | DATE | BY |
|-----|-----------|------|----|
|-----|-----------|------|----|

PROJECT:
COLDWATER PUBLIC SCHOOL INTERIOR RENOVATIONS

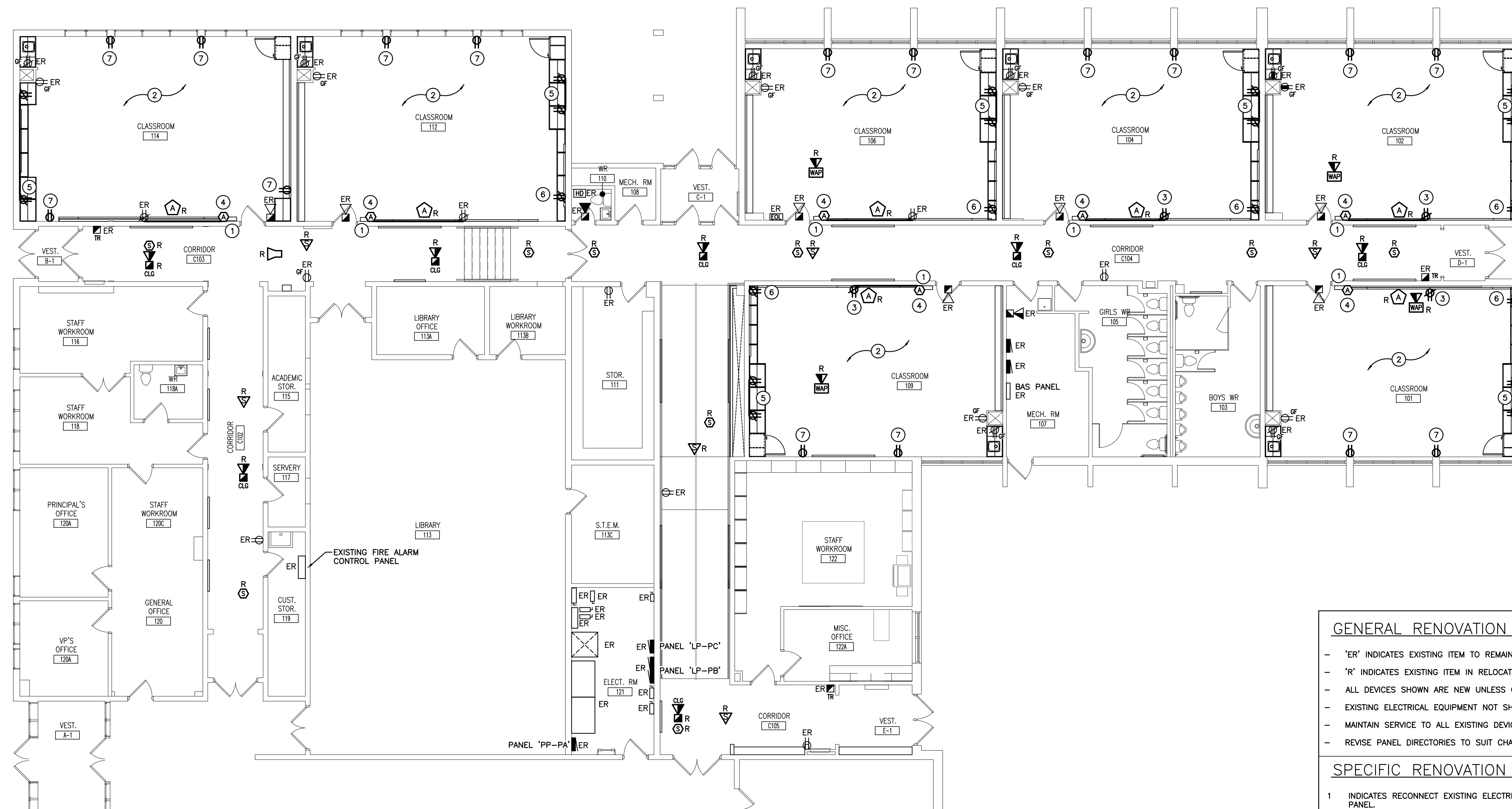
3 JOHN ST. WEST , COLDWATER, ON
SCDSB - COLDWATER PUBLIC SCHOOL

DRAWING:
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CHECKED BY: RV
DATE: APRIL 2024
SCALE: AS NOTED
FILE:

PROJECT NO: 24009
DRAWING NO: E101



PARTIAL GROUND FLOOR PLAN – POWER AND SYSTEMS RENOVATION PLAN
SCALE: 1:100

GENERAL RENOVATION NOTES

- 'ER' INDICATES EXISTING ITEM TO REMAIN.
- 'R' INDICATES EXISTING ITEM IN RELOCATED POSITION.
- ALL DEVICES SHOWN ARE NEW UNLESS OTHERWISE NOTED.
- EXISTING ELECTRICAL EQUIPMENT NOT SHOWN SHALL REMAIN UNLESS OTHERWISE NOTED.
- MAINTAIN SERVICE TO ALL EXISTING DEVICES TO REMAIN.
- REVISE PANEL DIRECTORIES TO SUIT CHANGES (TYPED).

SPECIFIC RENOVATION NOTES

- 1 INDICATES RECONNECT EXISTING ELECTRICAL DEVICES LOCATED ON CLASSROOM CONTROL PANEL.
- 2 CONNECT NEW DEVICES TO CIRCUIT MADE AVAILABLE DURING DEMOLITION. UPDATE PANEL DIRECTORIES AS REQUIRED.
- 3 PROVIDE SURFACE MOUNTED NON-METALLIC RACEWAY LOW-PROFILE, WIREMOLD 800BAC MOUNTED VERTICALLY ABOVE WHITEBOARD FOR RELOCATED PROJECTOR, TERMINATE IN CEILING SPACE. PROVIDE DUPLEX RECEPTACLE AS INDICATED. PROVIDE ALL ACCESSORIES AND HARDWARE FOR PROPER INSTALLATION.
- 4 PROVIDE SURFACE MOUNTED NON-METALLIC RACEWAY LOW-PROFILE, WIREMOLD 2300BAC MOUNTED HORIZONTAL ABOVE WHITEBOARD, FROM PROJECTOR TO TWO-GANG DEEP BOX FOR AV ROUGH-IN. LOCATION OF AV OUTLET TO BE IN LINE WITH THE BOTTOM OF THE WHITEBOARD. PROVIDE ALL ACCESSORIES AND HARDWARE FOR A PROPER INSTALLATION.
- 5 PROVIDE SURFACE MOUNTED NON-METALLIC RACEWAY LOW-PROFILE, WIREMOLD 800BAC MOUNTED HORIZONTAL ABOVE COUNTER AND RUN UP TO ACCESSIBLE CEILING SPACE WITH RACEWAY (TO BE RUN BESIDE THE TACKBOARD). PROVIDE TWO DUPLEX RECEPTACLES AS INDICATED. PROVIDE ALL ACCESSORIES AND HARDWARE FOR A PROPER INSTALLATION.
- 6 PROVIDE SURFACE MOUNTED NON-METALLIC RACEWAY LOW-PROFILE, WIREMOLD 800BAC MOUNTED VERTICALLY ABOVE COUNTER AND RUN UP TO ACCESSIBLE CEILING SPACE. PROVIDE ONE DUPLEX RECEPTACLE AS INDICATED. PROVIDE ALL ACCESSORIES AND HARDWARE FOR A PROPER INSTALLATION.
- 7 PROVIDE SURFACE MOUNTED NON-METALLIC RACEWAY LOW-PROFILE, WIREMOLD 800BAC MOUNTED AT REGULAR HEIGHT TO ACCESSIBLE CEILING SPACE. PROVIDE DUPLEX RECEPTACLE AS INDICATED. PROVIDE ALL ACCESSORIES AND HARDWARE FOR A PROPER INSTALLATION.

The contractor shall verify all dimensions and report all errors and discrepancies to the Consultant before commencement of the work.
The drawings show general arrangement of services. Follow as closely as actual building construction will permit. Obtain approval for relocation of service from Consultant before commencement of the work.
The drawings do not indicate all offsets, fittings and accessories which may be required. Provide the same to meet the required conditions.
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|-----|-----------|------|----|

PROJECT:
COLDWATER PUBLIC SCHOOL INTERIOR RENOVATIONS
3 JOHN ST. WEST, COLDWATER, ON
SCDSB - COLDWATER PUBLIC SCHOOL

DRAWING:
PARTIAL GROUND FLOOR - POWER AND SYSTEMS RENOVATION PLAN

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SCALE: AS NOTED
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PROFESSIONAL ENGINEER
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100011324
4/18/24
PROVINCE OF ONTARIO

DOC CONTROL DATE:
% COMPLETE: RV
DATE: APRIL 2024
SCALE: AS NOTED
FILE:

PROJECT NO: **24009**
DRAWING NO: **E302**

