

ELECTRICAL DRAWING LIST	
DRAWING NO.	DRAWING NAME
E001	SYMBOL LIST AND DETAILS
E100	GROUND FLOOR KEY PLAN
E200	GROUND FLOOR (SOUTH EAST WING) DEMOLITION LAYOUT
E201	GROUND FLOOR (SOUTH EAST WING) MODIFICATION LAYOUT
E202	GROUND FLOOR ELECTRICAL ROOMS MODIFICATION LAYOUT
E300	PARTIAL ROOF PLAN MODIFICATION LAYOUT
E400	SINGLE LINE DIAGRAM & FIRE ALARM RISER
E500	PANEL SCHEDULE

1. ELECTRICAL OUTLETS AND TELEPHONE OUTLETS: 400mm A.F.F. TO BOTTOM OF OUTLET UNLESS OTHERWISE NOTED.
2. LIGHT SWITCHES: 1000mm A.F.F. TO TOP OF SWITCHES
3. TEMPERATURE SENSING DEVICES: 1200mm A.F.F. TO TOP OF OUTLET BOX. (SEE MECHANICAL).
4. WALL MOUNTED TELEPHONE: 1200mm A.F.F. TO TOP OF OUTLET
5. FIRE ALARM PULL STATIONS: 1200mm A.F.F. TO TOP OF OUTLET
6. WALL MOUNTED P/A SPEAKER BOXES: 2200mm A.F.F. TO BOTTOM OF BOX
7. ELECTRICAL PANELS: 1800mm A.F.F. TO TOP OF PANEL
8. FIRE ALARM SPEAKER/STROBES: 2400mm A.F.F. TO TOP OF OUTLET BOX
9. COORDINATE ALL MOUNTING HEIGHTS WITH ARCHITECT/OWNER PRIOR TO ANY ROUGH-IN.

1. FOR EXACT LOCATION OF LIGHTING FIXTURES REFER TO ARCH. DRAWINGS.
2. EXACT LOCATION FOR ALL OUTLETS SHALL BE COORDINATED WITH ARCHITECT PRIOR TO ROUGH-IN.
3. FOR EXACT LOCATION OF ALL A/C UNITS, PUMPS, FANS, MOTORS, HEATERS, ETC. SEE MECHANICAL DRAWINGS.
4. ALL RECEPTACLES IF LOCATED FARTHER THAN 30,000mm FROM THE RESPECTIVE ELECTRICAL PANEL SHALL BE WIRED WITH #10 AWG AND FARTHER THAN 60,000mm SHALL BE WIRED WITH #8 AWG.
5. CO-ORDINATE ALL WORK WITH MECHANICAL CONTRACTOR.
6. STARTERS FOR FANS SHALL BE LOCATED ADJACENT TO CORRESPONDING PANEL BOARDS UNLESS OTHERWISE SHOWN.
7. ELECTRICAL CONTRACTOR SHALL CO-ORDINATE THEIR WORK TO SUIT THE PROJECT PHASE SCHEDULE.
8. ALL DUPLEX RECEPTACLES, F.A. FULL STATIONS AND SWITCHES SHALL BE FLUSH MOUNTED EXCEPT IN MECHANICAL ROOMS WHERE SURFACE MOUNTED INSTALLATION IS ACCEPTABLE.
9. ALL SYSTEMS (CONDUITS) SHALL BE INSTALLED CONCEALED IN WALL(S) IN ALL AREAS. IF THE WALL(S) ARE NOT ACCESSIBLE/FEASIBLE FOR CONDUITS TO INSTALL INSIDE THE WALL(S) SURFACE MOUNTING SHALL BE USED. UNLESS OTHERWISE STATED, SURFACE MOUNTING OF CONDUITS SHALL BE ACCEPTABLE.
10. PROVIDE BUSHINGS AT BOTH ENDS OF EACH CONDUIT/SLEEVE TERMINATED IN CEILING SPACE.
11. PROVIDE BLANK COVER PLATES FOR ALL UNUSED NEW AND EXISTING OUTLET BOXES.
12. PROVIDE PROTECTIVE COVER FOR ALL SMOKE DETECTORS IN EACH CLASSROOM, SCIENCE ROOMS, ETC. THAT IS AFFECT BY THE RENOVATION WORK. REMOVE THE COVER AT THE END OF CONSTRUCTION.

1. DEMOLITION OF EXISTING MATERIALS AND/OR EQUIPMENT AS SHOWN ON DRAWINGS BY ELECTRICAL CONTRACTOR. WORK SHALL BE CARRIED OUT IN STRICT ACCORDANCE WITH ALL APPLICABLE PROSECUTORIAL AND REGULATORY LAWS AND ORDINANCES.
2. DISCONNECT AND REMOVE ALL EQUIPMENT DESIGNATED FOR REMOVAL, RECONNECT ALL EQUIPMENT WHERE REQUIRED AND DISCONNECT AND CAP, OR ARRANGE FOR DISCONNECTING AND CAPPING. ALL MAIN SERVICES IN ACCORDANCE WITH THE AUTHORITIES HAVING JURISDICTION.
3. ALL MATERIALS AND/OR EQUIPMENT DESIGNATED FOR SALVAGE SHALL BE TURNED OVER TO THE OWNER. ALL OTHER MATERIALS AND/OR EQUIPMENT DESIGNATED FOR REMOVAL BECOMES THE PROPERTY OF THE DEMOLITION CONTRACTOR AND SHALL BE PROMPTLY REMOVED FROM THE SITE. UNDER NO CIRCUMSTANCES SHALL THE MATERIALS AND/OR EQUIPMENT BE SOLD DIRECTLY FROM THE SITE.
4. CONTACT OWNER PRIOR TO ANY DEMOLITION WORK. THE OWNER WILL DESIGNATE WHAT EQUIPMENT AND MATERIALS ARE TO BE SALVAGED. DEMOLITION WORK IS TO PROCEED ONLY AFTER OWNER'S APPROVAL HAS BEEN OBTAINED.
5. FOR EXACT LOCATION OF MECHANICAL EQUIPMENT WHICH SHALL BE REMOVED, COORDINATE WITH MECHANICAL DIVISION DRAWINGS.
6. FOR ALL EXISTING EQUIPMENT WHICH SHALL BE REMOVED, ELECTRICAL CONTRACTOR SHALL MAKE WIRING SAFE.
7. FOR EXACT LOCATION OF ALL EXISTING EQUIPMENT COORDINATE ON SITE.
8. MAKE REMAINING WIRING SAFE AND REMOVE ALL REDUNDANT CONDUITS AND WIRES OF THE SYSTEM BEING DISCONNECTED UNDER THIS SECTION. IF, IN DOUBT, CONTACT THE PROJECT ENGINEER. THE CONTRACTOR SHALL BE RESPONSIBLE TO ACCOMMODATE LAYOUT CHANGES AND TO KEEP OPERATIONAL EXISTING ELECTRICAL EQUIPMENT AND DEVICES.
9. COORDINATE WITH OWNER THE DISPOSAL OF ALL REDUNDANT DEVICES AND/OR MATERIALS RESULTED FROM ELECTRICAL DEMOLITION.
10. VISIT SITE, EXAMINE EXISTING CONDITIONS, FULLY UNDERSTAND THE FUNCTIONING OF THE SYSTEM BEING DISCONNECTED UNDER THIS SECTION. IF, IN DOUBT, CONTACT THE PROJECT ENGINEER BEFORE SUBMITTING THE TENDER PRICE. NO ALLOWANCE WILL ALLOWED LATER DUE TO FAILURE OF THIS DIVISION TO MAKE THIS EXAMINATION.
11. EXISTING ELECTRICAL EQUIPMENT WHICH BECOMES REDUNDANT SHALL BE COMPLETELY DISCONNECTED AND REMOVED FROM THE SITE.
12. FOR EXISTING EQUIPMENT WHICH SHALL BE RELOCATED ADJUST CONDUITS AND WIRES TO SUIT. EXISTING EQUIPMENT TO REMAIN ARE SHOWN FOR CLARIFICATION ONLY.
13. WHENEVER EXISTING ELECTRICALLY OPERATED EQUIPMENT IS REMOVED FROM ITS PRESENT LOCATION OR RE-INSTALLED ELSEWHERE, REMOVE REDUNDANT EXISTING CONDUITS, BOXES, CABLES, FIXTURES, ETC. OPENINGS IN BOXES, RACEWAYS, PANELS, ETC. SHALL BE REPAIR OR PATCHED TO MATCH THE ORIGINAL. ALL OPENINGS TO BE CLOSED IN PROPER MANNER AND ALL CABLES AND WIRES PROPERLY TERMINATED AND INSULATED TO RESTORE THE SYSTEM TO A SAFE AND SOUND CONDITION AND TO THE ADEQUATE SATISFACTION.
14. IN EVERY INSTANCE WHERE IT IS REQUIRED IN THE SPECIFICATION OR DRAWING THAT EQUIPMENT AND MATERIAL TO BE REMOVED FROM EXISTING LOCATIONS AND RE-INSTALLED, EITHER IN WHOLE OR IN PART, IN NEW LOCATIONS, ALL SUCH EQUIPMENT AND MATERIALS SHALL BE THOROUGHLY CLEANED AND WHERE NECESSARY PUT INTO GOOD OPERATING CONDITION BEFORE BEING RE-INSTALLED IN THE NEW LOCATION.
15. WHERE THE EXISTING EQUIPMENT IS NOT TO BE ULTIMATELY RELOCATED BUT INTERFERES WITH THE CONSTRUCTION, THE EQUIPMENT SHALL BE TEMPORARILY RELOCATED UNTIL SUCH TIME AS THE NEW CONSTRUCTION IS COMPLETED. TEMPORARILY RELOCATED EQUIPMENT SHALL BE MAINTAINED AT ALL TIMES.
16. WHEN A DEVICE OR EQUIPMENT IS REMOVED, ALL ASSOCIATED SURFACE CONDUITS, PULL BOXES SHALL BE TERMINATED AND ABANDONED IN CEILING SPACE AND SHALL BE MADE SAFE. ALL ASSOCIATED CONDUITS AND OUTLET BOXES/PULL BOXES INSIDE THE RELOCATED EQUIPMENT SHALL REMAIN AND PROVIDE SLANK COVERING FOR UNUSED BOXES. ALL ASSOCIATED WIRING/DATA CABLES/VOICE CABLES SHALL BE REMOVED FROM SOURCE.
17. TEST ALL PARTS OF THE RE-USED OR RELOCATED ELECTRICAL EQUIPMENT AND CORRECT ALL FAULTS AND GROUNDS.
18. ELECTRICAL CONTRACTOR SHALL COORDINATE ALL WORK TO SUIT THE PROJECT PROGRAM SCHEDULE.
19. ELECTRICAL CONTRACTOR SHALL DISCONNECT AND REMOVE ALL CONDUIT AND WIRING OF MECHANICAL EQUIPMENT TO BE REMOVED UNLESS OTHERWISE NOTED.
20. ALL REDUNDANT OBSOLETE COMMUNICATION AND POWER WIRING, CONDUIT AND JUNCTION BOXES SHALL BE REMOVED.























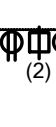

































## ELECTRICAL EQUIPMENT MOUNTING HEIGHTS

(HANDICAP ACCESSIBLE AREAS)

1. ELECTRICAL OUTLETS AND TELEPHONE OUTLETS: 400mm A.F.F. TO BOTTOM OF OUTLET UNLESS OTHERWISE NOTED.
2. LIGHT SWITCHES: 1000mm A.F.F. TO TOP OF SWITCHES
3. TEMPERATURE SENSING DEVICES: 1200mm A.F.F. TO TOP OF OUTLET BOX. (SEE MECHANICAL).
4. WALL MOUNTED TELEPHONE: 1200mm A.F.F. TO TOP OF OUTLET
5. FIRE ALARM PULL STATIONS: 1200mm A.F.F. TO TOP OF OUTLET
6. WALL MOUNTED P/A SPEAKER BOXES: 2200mm A.F.F. TO BOTTOM OF BOX
7. ELECTRICAL PANELS: 1800mm A.F.F. TO TOP OF PANEL
8. FIRE ALARM SPEAKER/STROBES: 2400mm A.F.F. TO TOP OF OUTLET BOX
9. COORDINATE ALL MOUNTING HEIGHTS WITH ARCHITECT/OWNER PRIOR TO ANY ROUGH-IN.

## NOTES: (RE-DEMOLITION LAYOUT)

1. DEMOLITION OF EXISTING MATERIALS AND/OR EQUIPMENT AS SHOWN ON DRAWINGS BY ELECTRICAL CONTRACTOR WORK SHALL BE CARRIED OUT IN STRICT ACCORDANCE WITH THE RELEVANT PROVINCIAL AND MUNICIPAL BY-LAWS AND REGULATIONS.
2. DISCONNECT AND REMOVE ALL EQUIPMENT DESIGNATED FOR REMOVAL. RECONNECT ALL EQUIPMENT WHERE REQUIRED AND DISCONNECT AND CAP, OR ARRANGE FOR DISCONNECTING AND CAPPING, ALL MAIN SERVICES IN ACCORDANCE WITH THE AUTHORITIES HAVING JURISDICTION.
3. ALL MATERIALS AND/OR EQUIPMENT DESIGNATED FOR SALVAGE SHALL BE TURNED OVER TO THE OWNER. ALL MATERIALS AND/OR EQUIPMENT DESIGNATED FOR REMOVAL BECOMES THE PROPERTY OF THE DEMOLITION CONTRACTOR AND SHALL BE PROMPTLY REMOVED FROM THE SITE. UNDER NO CIRCUMSTANCES SHALL THE MATERIALS AND/OR EQUIPMENT BE SOLD DIRECTLY BY THE CONTRACTOR.
4. CONTRACT OWNER PRIOR TO ANY DEMOLITION WORK, THE OWNER WILL DESIGNATE WHICH EQUIPMENT AND/OR MATERIALS ARE TO BE SALVAGED. DEMOLITION WORK IS TO PROCEED ONLY AFTER OWNER'S APPROVAL. HAS BEEN OBTAINED.
5. FOR EXACT LOCATION OF MECHANICAL EQUIPMENT WHICH SHALL BE REMOVED, COORDINATE WITH MECHANICAL DIVISION DRAWINGS.
6. FOR ALL EXISTING EQUIPMENT WHICH SHALL BE REMOVED, ELECTRICAL CONTRACTOR SHALL MAKE WIRING SAFE.
7. FOR EXACT LOCATION OF ALL EXISTING EQUIPMENT COORDINATE ON SITE.
8. MAKE REMAINING WIRING SAFE AND REMOVE ALL REDUNDANT CONDUITS AND WIRES BACK TO PANEL OF ORIGIN. ADJUST ALL EXISTING WIRES TO ACCOMMODATE LAOYD CHANGES AND TO KEEP OPERATIONAL EXISTING ELECTRICAL EQUIPMENT AND DEVICES.
9. COORDINATE WITH OWNER THE DISPOSAL OF ALL REDUNDANT DEVICES AND/OR MATERIALS RESULTED FROM ELECTRICAL DEMOLITION.
10. VISIT SITE, EXAMINE EXISTING CONDITIONS, FULLY UNDERSTAND THE FUNCTIONING OF THE SYSTEM DESCRIBED AND SPECIFIED UNDER THIS SECTION. IF IN DOUBT, CONTACT ENGINEER BEFORE SUBMITTING THE TENDER PRICE. NO ALLOWANCE WILL BE ALLOWED LATER DUE TO FAILURE OF THIS DECISION TO MAKE THIS EXAMINATION.
11. EXISTING ELECTRICAL EQUIPMENT WHICH BECOMES REDUNDANT SHALL BE COMPLETELY DISCONNECTED AND REMOVED FROM THE SITE.
12. FOR EXISTING EQUIPMENT WHICH SHALL BE RELOCATED ADJUST CONDUITS AND WIRES TO SUIT. EXISTING EQUIPMENT TO REMAIN ARE SHOWN FOR CLARIFICATION ONLY.
13. WHENEVER EXISTING ELECTRICALLY OPERATED EQUIPMENT IS REMOVED FROM ITS PRESENT LOCATION OR RE-INSTALLED TO A NEW LOCATION, REMOVE REDUNDANT EXISTING CONDUITS, BOXES, CABLES, FIXTURES, ETC. OPENINGS IN BOXES, RACEWAYS, PANELS, ETC. WHICH MAY RESULT FROM SUCH REMOVAL OF EQUIPMENT, SHALL BE CLOSED IN SUCH A MANNER AS TO PREVENT THE ENTRY OF WEATHER. ALL WEATHER TERMINATED AND INSULATED TO RESTORE THE SYSTEM TO A SAFE AND SOUND CONDITION AND TO THE ARCHITECT'S SATISFACTION.
14. IN EVERY INSTANCE WHERE IT IS REQUIRED IN THE SPECIFICATION OR DRAWING THAT EQUIPMENT AND MATERIALS TO BE REMOVED FROM EXISTING LOCATIONS AND RE-INSTALLED EITHER IN THE SAME OR IN ANOTHER PART OF THE PROJECT, SUCH EQUIPMENT AND MATERIALS SHALL BE THOROUGHLY CLEANED AND WHERE NECESSARY PUT INTO GOOD OPERATING CONDITION BEFORE BEING RE-INSTALLED IN THE NEW LOCATION.
15. WHERE THE EXISTING EQUIPMENT IS NOT TO BE ULTIMATELY RELOCATED BUT INSTALLED WITH THE CONSTRUCTION, THE EQUIPMENT SHALL BE TEMPORARILY RELOCATED UNTIL SUCH TIME AS THE NEW WORK IS COMPLETED SERVICES TO TEMPORARILY RELOCATED EQUIPMENT SHALL BE MAINTAINED AT ALL TIMES.
16. WHERE A DEVICE OR EQUIPMENT IS REMOVED, ALL ASSOCIATED SURFACE CONDUITS, PULL BOXES SHALL BE TERMINATED AND ABANDONED IN CEILING SPACE AND SHALL BE REMOVED. ALL ASSOCIATED SURFACE CONDUITS AND PULL BOXES, PULL BOXES INSIDE THE REMAINING WALLS SHALL REMAIN AND PROVIDE BLANK COVERS FOR UNUSED BOXES. ALL ASSOCIATED WIRING/DATA CABLES/VOLTS CABLES SHALL BE REMOVED FROM SOURCE.
17. TEST ALL PORTS OF THE RE-USED OR RELOCATED ELECTRICAL EQUIPMENT AND CORRECT ALL FAULTS AND GROUNDS.
18. ELECTRICAL CONTRACTOR SHALL COORDINATE ALL WORK TO SUIT THE PROJECT PHASE SCHEDULE.
19. ELECTRICAL CONTRACTOR SHALL DISCONNECT AND REMOVE ALL CONDUIT AND WIRING OF MECHANICAL EQUIPMENT TO BE REMOVED UNLESS OTHERWISE NOTED.
20. ALL REDUNDANT, OBSOLETE COMMUNICATION AND POWER WIRING, CONDUIT AND JUNCTION BOXES SHALL BE REMOVED.

	RECESSED OR SURFACE MOUNTED LED FIXTURE
	LED FIXTURE WALL OR CEILING MOUNTED
	EMERGENCY BATTERY UNIT C/W ASSOCIATED RECEPTACLE & HEAD(S) AS SHOWN
	EMERGENCY BATTERY UNIT
	REMOTE EMERGENCY LIGHTING HEAD(S) (CONNECT TO EMERGENCY BATTERY UNIT)
	EXIT SIGN WALL OR CEILING MOUNTED - ARROW DENOTES DIRECTION OF TRAVEL (CONNECT TO CORRESPONDING BATTERY UNIT)
	120 VOLT LIGHTING TOGGLE SWITCH (K DENOTES KEY-OPERATED, 3 DENOTES THREE WAY, 4 DENOTES FOUR WAY, WP DENOTES WEATHERPROOF, C DENOTES PA SYSTEM CALL SWITCH)
	120V LIGHT SWITCH MOUNTED IN CONTROL PANEL (K DENOTES KEY-OPERATED, 3 DENOTES THREE WAY)
	120 VOLT MOTOR RATED SWITCH COMPLETE WITH PILOT LIGHT, SUPPLIED AND INSTALLED BY ELECTRICAL DIV.
	CEILING OR WALL MOUNTED OCCUPANCY SENSOR FOR LIGHTING CONTROL
	15A, 120V DUPLEX RECEPTACLE ( W - WASHER)
	15A, 120V DUPLEX RECEPTACLE COMPLETE WITH USB CHARGER (HUBBELL #USB15X2)
	15A, 120V DUPLEX RECEPTACLE MOUNTED ABOVE COUNTER (MW - MICROWAVE, MWS - SHELF MOUNTED MICROWAVE)
	15A, 120V GROUND FAULT INTERRUPTER DUPLEX RECEPTACLE (HUBBELL #GF5262), MOUNTED ABOVE COUNTER (150mm ABOVE BACK SPLASH)
	15A, 120V WEATHERPROOF GFI TYPE DUPLEX RECEPTACLE
	15A, 120V QUAD RECEPTACLE
	15/20A, 120V, 1Ø COMBINATION GROUND FAULT INTERRUPTER COMBINATION DUPLEX RECEPTACLE (WP - DENOTES WEATHERPROOF)
	15A, 208V, 1Ø RECEPTACLE
	240V, 1Ø RECEPTACLE
	120V JUNCTION BOX
	SPECIAL OUTLET (SIZE AND EQUIPMENT AS NOTED, CONNECT TO EQUIPMENT)
	15A, 120V OUTLET FOR C - CONTROLS; MD - MOTORIZED DAMPER (CONNECT TO EQUIPMENT)
	SURFACE MOUNTED TWO-CELL RACEWAY (ONE CELL FOR POWER AND ONE CELL FOR COMPUTER WIRING) C/W RECEPTACLES AND COMPUTER OUTLETS AS SHOWN ON FLOOR PLANS. RUN ASSOCIATED CONDUIT FOR COMPUTER WIRING AND TERMINATE IN ACCESSIBLE CEILING SPACE. TERMINATION OF CONDUITS IN EXPOSED OR IN GYPSUM BOARD CEILINGS IS NOT ACCEPTABLE.
	WALL OR PLUGMOLD MOUNTED SINGLE JACK COMPUTER OUTLET FOR SCHOOL COMPUTER SYSTEM.
	WALL OR PLUGMOLD MOUNTED OUTLET BOX C/W BLANK COVER FOR FUTURE COMPUTER OUTLET.
	WALL OR PLUGMOLD MOUNTED DUPLEX JACK COMPUTER OUTLET FOR SCHOOL COMPUTER SYSTEM.
	WALL OR PLUGMOLD MOUNTED TRIPLE JACK COMPUTER OUTLET FOR SCHOOL COMPUTER SYSTEM.
	WALL OR PLUGMOLD MOUNTED QUAD JACK COMPUTER OUTLET FOR SCHOOL COMPUTER SYSTEM.
	OUTLET FOR WIRELESS ACCESS POINT.
	OUTLET FOR CEILING MOUNTED PROJECTOR
	2 GANG OUTLET BOX C/W SINGLE GANG COVER FOR SHORT THROW PROJECTOR AUXILIARY INPUT/OUTPUT. MOUNTED AT 400MM A.F.F TO TOP OF BOX. .
	4" X 4" X 4" OUTLET BOX C/W A/V CABLE PASS THROUGH GROMMET MOUNTED AT HIGHT LEVEL.
	HEATER C/W BUILT-IN THERMOSTAT
	ELECTRIC MOTOR (WIRING & EQUIPMENT AS NOTED)
	EMERGENCY PUSH BUTTON (RED MUSHROOM TYPE) LABELED "POWER" SHALL BE CONNECTED TO CORRESPONDING LIGHTING PANEL FOR SHUT DOWN OF POWER.
	DISCONNECT SWITCH (WP DENOTES WEATHERPROOF, RT DENOTES RAINLIGHT, EXP DENOTES EXPLOSION PROOF)
	MANUAL MOTOR STARTER SUPPLIED BY MECHANICAL DIV., INSTALLED/WIRED BY ELECTRICAL DIV. (P - DENOTES PILOT LIGHT)
	SPEED CONTROLLER FOR CEILING FAN (SUPPLIED BY MECHANICAL DIV., INSTALLED/WIRED BY ELECTRICAL DIV.)
	MAGNETIC MOTOR STARTER SUPPLIED BY MECHANICAL DIV., INSTALLED/WIRED BY ELECTRICAL DIV. (P - DENOTES PILOT LIGHT)
	FUSED COMBINATION MAGNETIC MOTOR STARTER (SUPPLIED BY MECHANICAL DIV., INSTALLED/WIRED BY ELECTRICAL DIV.)
	TIMESWITCH
	H.O.A. CONTACTOR C/W PILOT LIGHT
	FLUSH WALL MOUNTED OUTLET BOX (FOR TEMPERATURE SENSOR) COMPLETE WITH 16MM EMPTY CONDUIT TERMINATED IN ACCESSIBLE CEILING SPACE UNLESS OTHERWISE NOTED (TEMPERATURE SENSOR AND WIRING BY MECHANICAL DIV.)
	OUTLET FOR HANDICAPPED PUSH BUTTON
	SURFACE OR FLUSH MOUNTED ELECTRICAL PANELS
	DISTRIBUTION PANEL OR SPLITTER TROUGH
	DRY TYPE TRANSFORMER
	CONDUIT RUN CONCEALED IN WALL & CEILING ETC.
	CONDUIT RUN IN OR UNDER FLOOR SLAB OR GRADE
	FIRE ALARM MANUAL PULL STATION - WP DENOTES WEATHERPROOF
	FLUSH MOUNTED FIRE ALARM CONE SPEAKER. (WG DENOTES C/W WIREGUARD, S DENOTES C/W STROBE LIGHT)
	FIRE ALARM SMOKE DETECTOR (W DENOTES C/W WIREGUARD)
	FIRE ALARM HEAT DETECTOR (W DENOTES C/W WIREGUARD)
	FIRE ALARM SMOKE DETECTOR MOUNTED IN RETURN AND/OR SUPPLY DUCT C/W PILOT LIGHT (WP-DENOTES COMPLETE WITH HEATER AND WEATHER PROOF ENCLOSURE)
	WALL MOUNTED LOCK DOWN SPEAKER, S - DENOTES C/W STROBE, WP- WEATHERPROOF, UNLESS OTHERWISE NOTED, RUN 19mm CONDUIT AND TERMINATE IN CORRIDOR CABLE DUAL HANGERS, TERMINATION OF CONDUIT IN EXPOSED OR DRYWALL CEILING AREAS IS NOT ACCEPTABLE. ELK-1RT SPEAKER WITH ELK-SL1A STROBE (AMBER).
	FLUSH WALL/CEILING MOUNTED P.A. SPEAKER BACK BOX, UNLESS OTHERWISE NOTED, RUN 19mm CONDUIT AND TERMINATE IN CORRIDOR CABLE DUAL HANGERS, TERMINATION OF CONDUIT IN EXPOSED OR DRYWALL CEILING AREAS IS NOT ACCEPTABLE.

## ELECTRICAL EQUIPMENT MOUNTING HEIGHTS

(HANDICAP ACCESSIBLE AREAS)

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3. TEMPERATURE SENSING DEVICES: 1200mm A.F.F. TO TOP OF OUTLET BOX. (SEE MECHANICAL).
4. WALL MOUNTED TELEPHONE: 1200mm A.F.F. TO TOP OF OUTLET
5. FIRE ALARM PULL STATIONS: 1200mm A.F.F. TO TOP OF OUTLET
6. WALL MOUNTED P/A SPEAKER BOXES: 2200mm A.F.F. TO BOTTOM OF BOX
7. ELECTRICAL PANELS: 1800mm A.F.F. TO TOP OF PANEL
8. FIRE ALARM SPEAKER/STROBES: 2400mm A.F.F. TO TOP OF OUTLET BOX
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## NOTES: (RE-DEMOLITION LAYOUT)

1. DEMOLITION OF EXISTING MATERIALS AND/OR EQUIPMENT AS SHOWN ON DRAWINGS BY ELECTRICAL CONTRACTOR WORK SHALL BE CARRIED OUT IN STRICT ACCORDANCE WITH THE RELEVANT PROVINCIAL AND MUNICIPAL BY-LAWS AND REGULATIONS.
2. DISCONNECT AND REMOVE ALL EQUIPMENT DESIGNATED FOR REMOVAL. RECONNECT ALL EQUIPMENT WHERE REQUIRED AND DISCONNECT AND CAP, OR ARRANGE FOR DISCONNECTING AND CAPPING, ALL MAIN SERVICES IN ACCORDANCE WITH THE AUTHORITIES HAVING JURISDICTION.
3. ALL MATERIALS AND/OR EQUIPMENT DESIGNATED FOR SALVAGE SHALL BE TURNED OVER TO THE OWNER. ALL MATERIALS AND/OR EQUIPMENT DESIGNATED FOR REMOVAL BECOMES THE PROPERTY OF THE DEMOLITION CONTRACTOR AND SHALL BE PROMPTLY REMOVED FROM THE SITE. UNDER NO CIRCUMSTANCES SHALL THE MATERIALS AND/OR EQUIPMENT BE SOLD DIRECTLY BY THE CONTRACTOR.
4. CONTRACT OWNER PRIOR TO ANY DEMOLITION WORK, THE OWNER WILL DESIGNATE WHICH EQUIPMENT AND/OR MATERIALS ARE TO BE SALVAGED. DEMOLITION WORK IS TO PROCEED ONLY AFTER OWNER'S APPROVAL. HAS BEEN OBTAINED.
5. FOR EXACT LOCATION OF MECHANICAL EQUIPMENT WHICH SHALL BE REMOVED, COORDINATE WITH MECHANICAL DIVISION DRAWINGS.
6. FOR ALL EXISTING EQUIPMENT WHICH SHALL BE REMOVED, ELECTRICAL CONTRACTOR SHALL MAKE WIRING SAFE.
7. FOR EXACT LOCATION OF ALL EXISTING EQUIPMENT COORDINATE ON SITE.
8. MAKE REMAINING WIRING SAFE AND REMOVE ALL REDUNDANT CONDUITS AND WIRES BACK TO PANEL OF ORIGIN. ADJUST ALL EXISTING WIRES TO ACCOMMODATE LAOYD CHANGES AND TO KEEP OPERATIONAL EXISTING ELECTRICAL EQUIPMENT AND DEVICES.
9. COORDINATE WITH OWNER THE DISPOSAL OF ALL REDUNDANT DEVICES AND/OR MATERIALS RESULTED FROM ELECTRICAL DEMOLITION.
10. VISIT SITE, EXAMINE EXISTING CONDITIONS, FULLY UNDERSTAND THE FUNCTIONING OF THE SYSTEM DESCRIBED AND SPECIFIED UNDER THIS SECTION. IF IN DOUBT, CONTACT ENGINEER BEFORE SUBMITTING THE TENDER PRICE. NO ALLOWANCE WILL BE ALLOWED LATER DUE TO FAILURE OF THIS DECISION TO MAKE THIS EXAMINATION.
11. EXISTING ELECTRICAL EQUIPMENT WHICH BECOMES REDUNDANT SHALL BE COMPLETELY DISCONNECTED AND REMOVED FROM THE SITE.
12. FOR EXISTING EQUIPMENT WHICH SHALL BE RELOCATED ADJUST CONDUITS AND WIRES TO SUIT. EXISTING EQUIPMENT TO REMAIN ARE SHOWN FOR CLARIFICATION ONLY.
13. WHENEVER EXISTING ELECTRICALLY OPERATED EQUIPMENT IS REMOVED FROM ITS PRESENT LOCATION OR RE-INSTALLED TO A NEW LOCATION, REMOVE REDUNDANT EXISTING CONDUITS, BOXES, CABLES, FIXTURES, ETC. OPENINGS IN BOXES, RACEWAYS, PANELS, ETC. WHICH MAY RESULT FROM SUCH REMOVAL OF EQUIPMENT, SHALL BE CLOSED IN SUCH A MANNER AS TO PREVENT THE ENTRY OF WEATHER. ALL WEATHER TERMINATED AND INSULATED TO RESTORE THE SYSTEM TO A SAFE AND SOUND CONDITION AND TO THE ARCHITECT'S SATISFACTION.
14. IN EVERY INSTANCE WHERE IT IS REQUIRED IN THE SPECIFICATION OR DRAWING THAT EQUIPMENT AND MATERIALS TO BE REMOVED FROM EXISTING LOCATIONS AND RE-INSTALLED EITHER IN THE SAME OR IN ANOTHER PART OF THE PROJECT, SUCH EQUIPMENT AND MATERIALS SHALL BE THOROUGHLY CLEANED AND WHERE NECESSARY PUT INTO GOOD OPERATING CONDITION BEFORE BEING RE-INSTALLED IN THE NEW LOCATION.
15. WHERE THE EXISTING EQUIPMENT IS NOT TO BE ULTIMATELY RELOCATED BUT INSTALLED WITH THE CONSTRUCTION, THE EQUIPMENT SHALL BE TEMPORARILY RELOCATED UNTIL SUCH TIME AS THE NEW WORK IS COMPLETED SERVICES TO TEMPORARILY RELOCATED EQUIPMENT SHALL BE MAINTAINED AT ALL TIMES.
16. WHERE A DEVICE OR EQUIPMENT IS REMOVED, ALL ASSOCIATED SURFACE CONDUITS, PULL BOXES SHALL BE TERMINATED AND ABANDONED IN CEILING SPACE AND SHALL BE REMOVED. ALL ASSOCIATED SURFACE CONDUITS AND PULL BOXES, PULL BOXES INSIDE THE REMAINING WALLS SHALL REMAIN AND PROVIDE BLANK COVERS FOR UNUSED BOXES. ALL ASSOCIATED WIRING/DATA CABLES/VOLTS CABLES SHALL BE REMOVED FROM SOURCE.
17. TEST ALL PORTS OF THE RE-USED OR RELOCATED ELECTRICAL EQUIPMENT AND CORRECT ALL FAULTS AND GROUNDS.
18. ELECTRICAL CONTRACTOR SHALL COORDINATE ALL WORK TO SUIT THE PROJECT PHASE SCHEDULE.
19. ELECTRICAL CONTRACTOR SHALL DISCONNECT AND REMOVE ALL CONDUIT AND WIRING OF MECHANICAL EQUIPMENT TO BE REMOVED UNLESS OTHERWISE NOTED.
20. ALL REDUNDANT, OBSOLETE COMMUNICATION AND POWER WIRING, CONDUIT AND JUNCTION BOXES SHALL BE REMOVED.

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Architect

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## Consultants

## Mechanical and Electrical Consultants

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Tel: - -

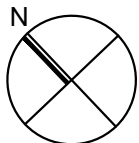
## Structural Consultants

**Kalos Engineering Inc.**

300 York Boulevard,  
Mississauga, Ontario L4R 9K6

Tel: 905-333-9119

Key Plan N.T.S.



## Project North

True North

[illegible]

General Contractor shall check and verify all dimensions and report all errors and omissions to the Architect. Do not scale the drawings. Drawings shall not be used for construction purposes until issued by the Architect for construction.

Drawing Title:

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Drawn by: FH | Checked by: TM

Job No.	Drawing No.
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E001



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True North

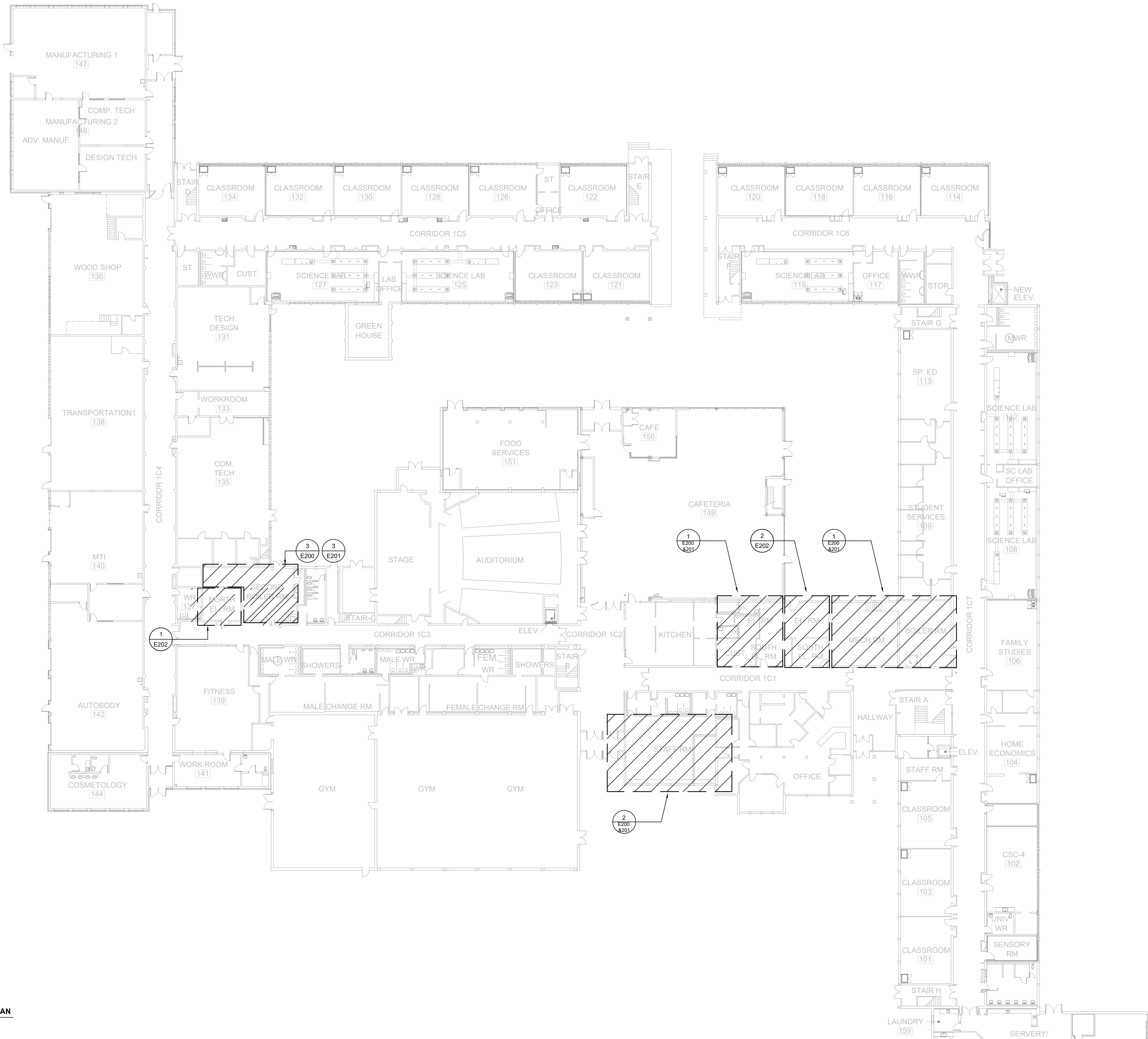
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## GROUND FLOOR KEY PLAN

Job No.	Drawing No.
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**1 GROUND FLOOR KEY PLAN**  
**E100** 1:250



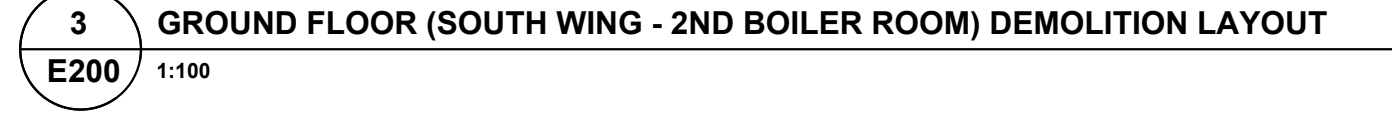
2050 Guelph Line  
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N.T.S.

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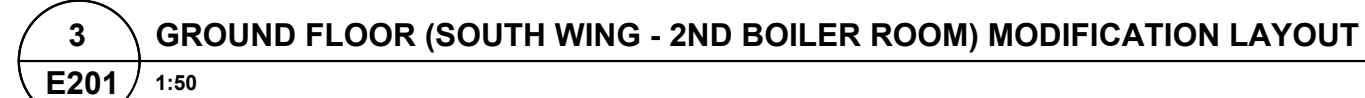
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23178A

# E200





1. PROVIDE FIRE STANDING(BOLTED TO THE FLOOR) UNISTRUTS/ MOUNTING BRACKETS FOR INSTALLATION OF UN-FUSED DISCONNECT SWITCH. EXACT LOCATION SHALL BE COORDINATED WITH MECHANICAL CONTRACTOR AND ON SITE.
2. ELECTRICAL CONTRACTOR SHALL COORDINATE EXACT LOCATION OF DUCT SMOKE DETECTOR(S) MOUNTED ON SUPPLY AIR DUCT WITH MECHANICAL CONTRACTOR TO AVOID FALSE FIRE ALARMS.
3. EXISTING PENDANT MOUNTED LINEAR FIXTURE SHALL BE RELOCATED AS SHOWN TO SUIT NEW MECHANICAL WORK. REWORK EXISTING CONDUIT & WIRING AND EXTEND TO SUIT. COORDINATE ALL WORK WITH MECHANICAL CONTRACTOR ON SITE.
4. REWORK AND EXTEND SWITCHING WIRING TO MAINTAIN THE SAME SWITCH CONTROL FOR THE RELOCATED LIGHTING.
5. EXISTING RECESSED MOUNTED 2X4 LITXURE SHALL BE RELOCATED AS SHOWN TO SUIT NEW MECHANICAL WORK. REWORK EXISTING CONDUIT & WIRING AND EXTEND TO SUIT. COORDINATE ALL WORK WITH MECHANICAL CONTRACTOR ON SITE.
6. PROVIDE FREE STANDING (BOLTED TO THE FLOOR) UNISTRUTS/ MOUNTING BRACKETS FOR INSTALLATION OF COMBINATION STARTER & DISCONNECT SWITCH. EXACT LOCATION SHALL BE COORDINATED WITH MECHANICAL CONTRACTOR AND ON SITE.
7. EXISTING LOCK DOWN DEVICE, CAMERA, SMOKE DETECTOR, REMOTE HEADS SHALL BE DISCONNECTED TO SUIT CEILING REPLACEMENT. MAKE SAFE OF EXISTING WIRING. UPON COMPLETION OF NEW CEILING, REINSTALL EXISTING DEVICES AT THE SAME PLACE, AND RECONNECT TO EXISTING WIRING. INCLUDE FOR TESTING AND VERIFICATION OF ALL RE-INSTALLED DEVICES.
8. PROVIDE NEW SURFACE MOUNTED TYPE 'A' AND RECESS MOUNTED TYPE 'B' LED FIXTURE AND RECONNECT TO EXISTING LIGHTING CIRCUIT PREVIOUSLY FEEDING THE REMOVED LIGHT FIXTURE AT THE SAME LOCATION
9. PROVIDE NEW PICTORGRAM AND RE-CONNECT TO EXISTING SIGN CIRCUIT OBTAINED FROM DEMOLITION
10. ILLUMINATED EMERGENCY PUSH BUTTON (RED RESHROOM TYPE) FOR SHUT DOWN OF BOILERS, HOT WATER TANK GAS BURNERS & HWIT RECIRC. PUMPS ON CIRCUIT CCT #56-72 & SG-78/0 & SG-85-87 & SG-86,88,90. PROVIDE 4-3P CONTACTORS (COORDINATE SUITABLE INSTALLATION LOCATION ON SITE) AND CONNECT TO BOILERS & CONTROLS OF HOT WATER TANK. COORDINATE WITH MECHANICAL CONTRACTOR FOR ALL WORK ON SITE). REFER TO DRAWING E400 FOR FURTHER DETAIL.
11. ILLUMINATED EMERGENCY PUSH BUTTON (RED RESHROOM TYPE) FOR SHUT DOWN OF BOILERS, ON CIRCUIT CCT #1FN-49,53 & 1FN-43,45-47. PROVIDE 2-3P CONTACTORS (COORDINATE SUITABLE INSTALLATION LOCATION ON SITE), WITH COIL VOLTAGE ON CCT #1FN-46 AND CONNECT TO BOILERS CONTROL PANEL. (COORDINATE WITH MECHANICAL CONTRACTOR ON SITE FOR ALL WORK ON SITE). REFER TO DRAWING E400 FOR FURTHER DETAIL.
12. PROVIDE NEW TYPE 1 FIXTURE INSTALLED BELOW THE NEW DRYWALL CEILING. CONNECT TO NEAREST EXISTING LIGHTING CIRCUIT. REWORK EXISTING CONDUIT, WIRING AND EXTEND TO SUIT.
13. PROVIDE NEW LIGHT FIXTURE SHALL BE DISCONNECTED AND REMOVED TO SUIT INSTALLATION OF NEW ARCHITECTURAL DRYWALL CEILING. RE-INSTALL THE LIGHT FIXTURES AT THE SAME LOCATION BELOW THE NEW DRYWALL CEILING. REWORK EXISTING CONDUIT AND WIRING TO SUIT.

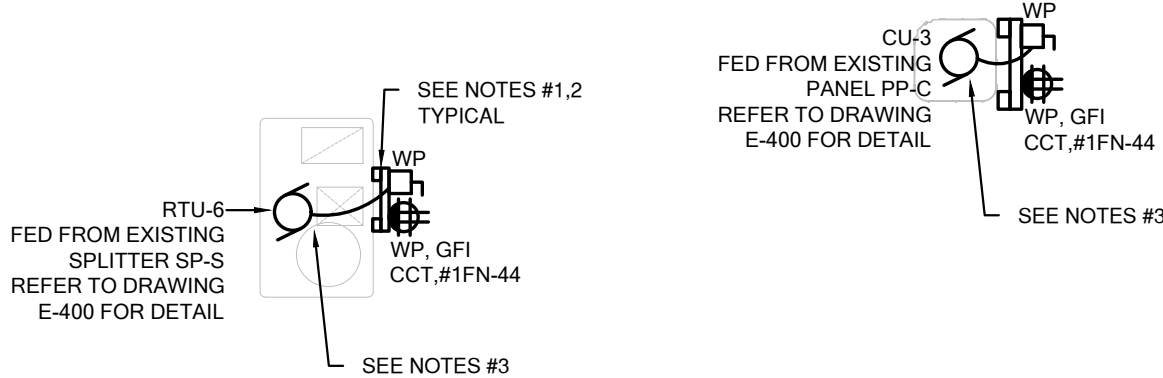


# E201









- ## NOTES
1. PROVIDE FREE STANDING (BOLTED TO THE FLOOR) UNISTRUTS/ MOUNTING BRACKETS FOR INSTALLATION OF WEATHERPROOF DISCONNECT SWITCH/WEATHERPROOF GFI SERVICE DUCKLET RECEPTACLE. EXACT LOCATION SHALL BE COORDINATED WITH MECHANICAL CONTRACTOR AND ON SITE.
  2. 1502A 120V COMBINATION WEATHERPROOF GFI SERVICE DUCKLET RECEPTACLE C/W WEATHERPROOF IN-USE COVER AND "EXTRA DUTY" LABEL, SIMILAR TO HUBBELL CAT#MX3200.
  3. COORDINATE WITH MECHANICAL CONTRACTOR FOR EXACT LOCATION OF MECHANICAL EQUIPMENT ON SITE.

Halton District School Board

2050 Guelph Line  
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# NELSON HIGH SCHOOL BOILER REPLACEMENT

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## Consultants

## Mechanical and Electrical Consultants

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Ontario, L4K 4A5

Tel: - -

## Structural Consultants

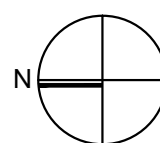
**Kalos Engineering Inc.**

300 York Boulevard,

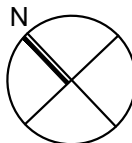
Milton, Ontario, L8R

tel: 905-333-9111

Key Plan N.T.S.



## Project North



True North

[illegible]

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Drawing Title

## PARTIAL ROOF PLAN MODIFICATION LAYOUT

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Drawn by: FH Checked by: TM

FH | Checked by: TM

Job No

Drawing No.

23178A

E30C





- NOTES:**
1. PROVIDE ALL ASSOCIATED FIRE ALARM SYSTEM DEVICES, CONDUIT/WIRING, PROGRAMMING AND TEST/VERIFICATION FOR THE CONNECTION TO THE SPRINKLER SUPERVISORY VALVE.
  2. EXISTING FIRE ALARM CONTROL PANEL (MIRCOM FX-2000) AND FIRE ALARM ANNUNCIATOR SHALL BE MODIFIED/EXTENDED TO SUIT EXISTING AND ADDITION OF NEW ZONES. PROVIDE ALL ASSOCIATED COMPONENTS AND ADJUST TO SUIT. COORDINATE WITH PROJECT PHASE SCHEDULE.
  3. ALL WIRING SHALL BE RUN IN CONDUIT AND IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
  4. AFTER COMPLETION OF F.A. SYSTEM, PROVIDE F.A. SYSTEM VERIFICATION BY F.A. SYSTEM MANUFACTURER/INSTALLER (PART OF HIS CONTRACT).
  5. FIRE ALARM ZONE NUMBERS/AUXILIARY CONTACT NUMBERS ARE SHOWN FOR REFERENCE AND INTENT ONLY. ELECTRICAL CONTRACTOR SHALL VERIFY ON SITE EXACT NUMBERS. ADJUST ALL COMPONENTS TO SUIT.
  6. EXISTING F.A. SYSTEM IN EXISTING BUILDING SHALL BE OPERATIONAL AT ALL TIMES DURING CONSTRUCTION.
  7. ALL EXISTING CONNECTIONS TO EXISTING F.A. SYSTEM NOT AFFECTED BY THIS RENOVATION SHALL REMAIN AND OPERATIONAL. COORDINATE ON SITE.
  8. PROVIDE NEW CONDUIT COMPLETE WITH NEW WIRING IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATION.
  9. IN ACTUATION OF ANY FIRE ALARM ZONE, AUXILIARY CONTACTS AC-N1 TO AC-N5 SHALL BE ENERGIZED AND SHALL SHUT DOWN CORRESPONDING ROOF TOP UNITS.
  10. DVR RELAYS FOR AC-N1 TO AC-N5 SHALL BE COMPLETE WITH THE TIME DELAY PROVISIONS (ROOF TOP UNITS CAN NOT START SIMULTANEOUSLY) COORDINATE WITH MECHANICAL CONTRACTOR.
  11. PROVIDE ALL NECESSARY RELAYS AND COMPONENTS TO ACHIEVE LOSS OF POWER (CIRCUIT FAILURE) OF EACH CIRCUIT FOR RESPECTIVE PANEL.
  12. CONDUCT COMMISSIONING, TESTING, OPERATION AND VERIFICATION OF ALL FIRE/SMOKE DAMPERS AND ASSOCIATED DUCT SMOKE DETECTORS AS PART OF INTEGRATED LIFE SAFETY SYSTEM TESTING.
  13. FOR MORE INFORMATION REFER TO ELECTRICAL SPECIFICATION.
  14. CONTRACTOR SHALL UTILIZE EXISTING SPARE ZONES (PREVIOUSLY DELETED DURING DEMOLITION WORK) FOR NEW ZONES.

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Key Plan N.T.S.

[illegible]

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Drawing Title:  
**SINGLE LINE DIAGRAM  
& FIRE ALARM RISER**

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Drawn by:	FH	Checked by:	TM
Job No.	Drawing No.		

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