CONSEIL SCOLAIRE CATHOLIQUE MONAVENIR EEC SAINTE CROIX DAYCARE INTERIOR RENOVATIONS

351 LAFONTAINE ROAD, TINY, ONTARIO

PROJECT NO: 2018-0011B DATE: JANUARY 2021

PROGRESS DATES:

ISSUED FOR 66% DESIGN REVIEW:JUNE 08, 2018 ISSUED FOR 99% DESIGN REVIEW: JUNE 22, 2018 ISSUED FOR TENDER: JULY 5, 2018 REISSUED FOR TENDER: OCTOBER 19, 2018

ISSUED FOR 99% DESIGN REVIEW-SCOPE REDUCTION + LIFT: FEBRUARY 19, 2020 ISSUED FOR REVISED PERMIT/TENDER: FEBRUARY 25, 2020

ISSUED FOR RE-TENDER: JANUARY 11, 2021

PRIME CONSULTANT/ARCHITECT: LDM ARCHITECTS INC. STRUCTURAL ENGINEER: MAITLAND SPENCER P.ENG. MECHANICAL/ELECTRICAL ENGINEER: REGAL CONSULTING ENGINEERS INC.

DRAWING LIST

ARCHITECTURAL

AS-1 ARCHITECTURAL SITE PLAN A1-1 EXISTING LAYOUT & KEY PLAN

A1-2-1 SELECTIVE DEMOLITION LAYOUTS (ROOMS 120 & 121)

A1-2-2 SELECTIVE DEMOLITION LAYOUTS (KITCHEN & STAGE) A1-3-1 SELECTIVE NEW LAYOUTS (ROOMS 120 & 121)

A1-3-2 SELECTIVE NEW LAYOUTS (KITCHEN & STAGE)

A1-4-1 SELECTIVE REFLECTED CEILING PLANS, DEMOLITION LAYOUTS (ROOMS 120, 121, KITCHEN & WASHROOM) A1-4-2 SELECTIVE REFLECTED CEILING PALNS, NEW LAYOUTS (ROOMS 120, 121 & KITCHEN & LAUNDRY ROOM.)

A2-1 INTERIOR SECTION/ELEVATIONS

A2-2 INTERIOR SECTION/ELEVATIONS

A2-3 INTERIOR SECTION/ELEVATIONS A2-4 MILLWORK SECTIONS

A3-1 DOOR DETAILS/SCHEDULES

STRUCTURAL

S-1 PARTIAL ROOF FRAMING AND GROUND FLOOR PLANS, DETAILS & GENERAL NOTES

MECHANICAL

M0.0 MECHANICAL LEGENDS, NOTES, DRAWING LIST & SCHEDULES

M0.1 KEY PLAN

M1.0D DEMOLITION DRAINAGE AND PLUMBING FLOOR PLAN M2.0D DEMOLITION HVAC FLOOR PLAN

M1.0 NEW DRAINAGE FLOOR PLAN

M2.0 NEW PLUMBING FLOOR PLAN M3.0 NEW HVAC FLOOR PLAN

M4.0 MECHANICAL DETAILS

M5-0 MECHANICAL SPECIFICATIONS-1 M5.1 MECHANICAL SPECIFICATIONS-2

ELECTRICAL

E0.0 ELECTRICAL LEAD SHEET

E1.0 ELECTRICAL KEY PLAN

E2.0 DEMOLITION ELECTRICAL FLOOR PLAN E2.1 EXISTING FIRE ALARM & LIFE SAFETY FLOOR PLAN

E3.0 PROPOSED POWER FLOOR PLAN

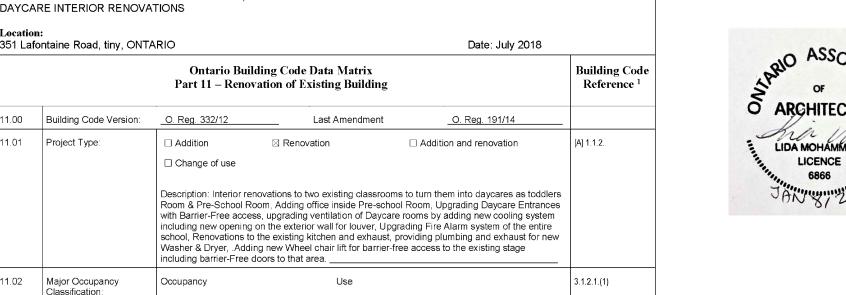
E3.1 PROPOSED LIGHTING FLOOR PLAN

E3.2 PROPOSED FIRE ALARM FLOOR PLAN E3.3 PROPOSED SAFETY & FIRE ALARM FLOOR PLAN

E4.0 ELECTRICAL SCHEDULE & SLD

E5.0 ELECTRICAL SPECIFICATIONS





	Classification.	Assembly-A2	;	<u>Schools</u>			
11.03	Superimposed Major Occupancies:	⊠ No □ Yes					3.2.2.7.
11.04	Building Area (m²)	Description:		Existing	New	Total	[A] 1.4.1.2.
		Ground Floor			0	2107	-
		Total		2,107	0	2,107	-
11.05	Building Height	1 Storeys	s above grade				[A] 1.4.1.2. & 3.2.1.1.
		0 Storeys	s below grade				
11.06	Number of Streets/ Firefighter access	1_street(s)					3.2.2.10. & 3.2.5.
11.07	Building Size	□ Small □ M	Medium	⊠ Large	□ > Large		T.11.2.1.1.BN.
11.08	Existing Building Classification:	Change in Major Occupand	oy: □ Yes ⊠ Not		major occupand	ey)	11.2.1.1. 11.5.1.1.A
		Construction Index:	6				T 11.2.1.1A
		Hazard Index:	6				T 11.2.1.1B to N
		Importance Category:	□ Low □ High	⊠ Normal □ Post-disaster			4.1.2.1, 5.2.2.1.(2)
11.09	Renovation type:	⊠ Basic Renovation	□ Extensive	Renovation			11.3.3.1. 11.3.3.2.
11.10	Occupant Load	As per original Design of th	<u></u>				3.1.17.

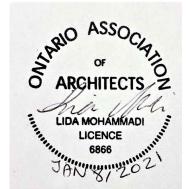
Name of Practice: LDM ARCHITECTS INC.

CERTIFICATE OF PRACTICE NO: 5734

CONSEIL SCOLAIRE CATHOLIQUE MONAVENIR, EEC SAINTE CROIX

11.09	Renovation type.	Basic Renovation	⊥ Extensive F	enovation		11.3.3.1
11.10	Occupant Load	As per original Design of the building				3.1.17.
11.11	Plumbing Fixture Requirements	Design for 39 children, fixtures re	quired 4, pro	posed 4		3.7.4.
11.12	Barrier-free Design:	As per existin	ıg- No change	<u> </u>		11.3.3.2
11.13	Reduction in	Structural:		⊠ No	☐ Yes	11.4.2.1
	Performance Level:	By Increase in occupant load:		⊠ No	☐ Yes	11.4.2.2
		By change of major occupancy:		⊠ No	☐ Yes	11.4.2.3
		Plumbing:		⊠ No	☐ Yes	11.4.2.4
		Sewage-systems:		⊠ No	☐ Yes	11.4.2.5
		Extension of combustible constru	ction:	⊠ No	☐ Yes	11.4.2.6
11.14	Compensating	⊠ No □ Yes				11.4.3.1
	Construction:	Structural:	⊠ No	⊠ Yes		11.4.3.2
		Increase in occupant load:	⊠ No	□ Yes		11.4.3.3
		Change of major occupancy:	⊠ No	□Yes		11.4.3.4
		Plumbing:	⊠ No	□ Yes		11.4.3.5
		Sewage systems:	⊠ No	□Yes		11.4.3.6
		Extension of combustible constru	oction:	⊠ No	□ Yes	11.4.3.7
11.15	Compliance Alternatives	⊠ No □ Yes				11.5.1.

rences are to Division B of the OBC unless preceded by [A] for Division A and [C] for Division



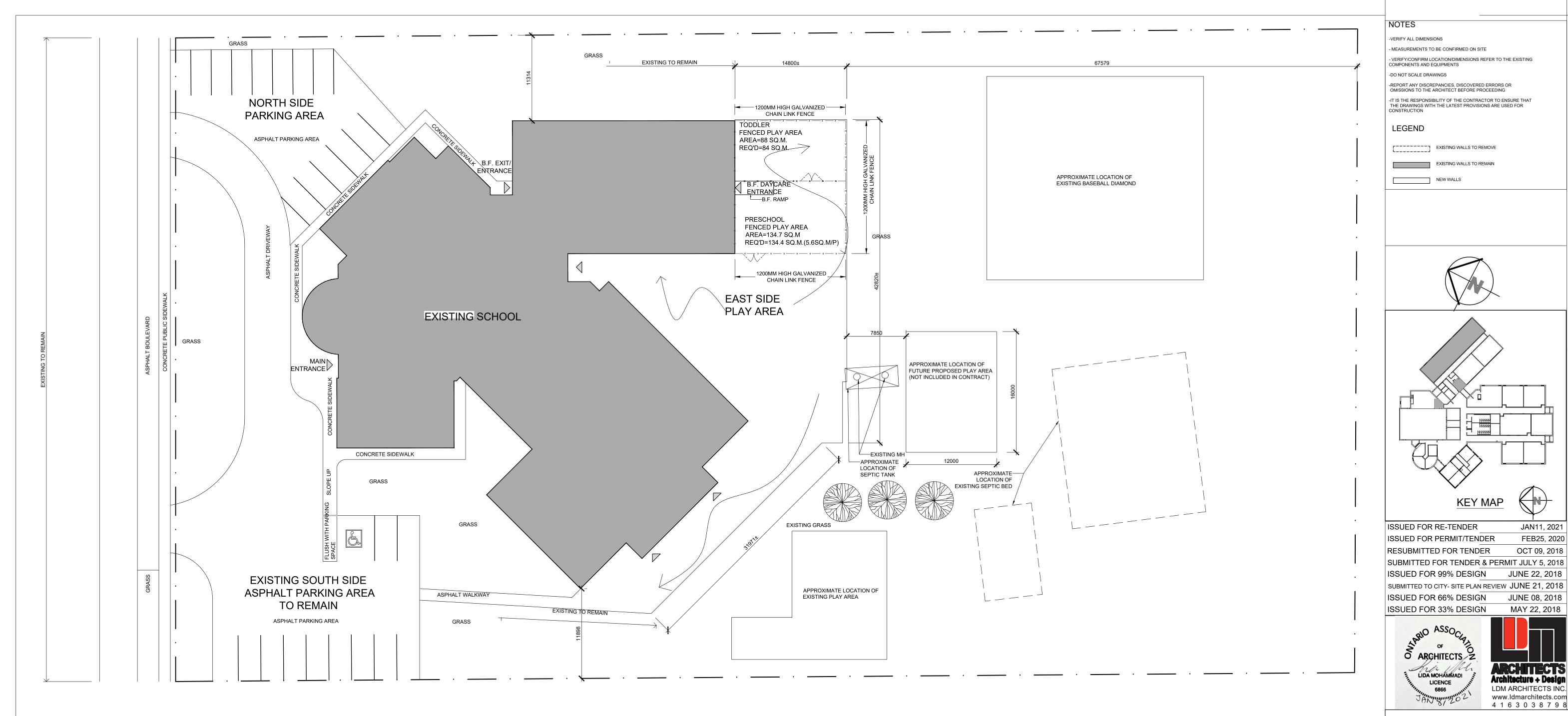




REGAL CONSULTING ENGINEERS INC.

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JANUARY 2021



1 SITE PLAN AS-1 SCALE 1:250

NEW PLAY AREA & ASPHALT

SITE PLAN AND INFORMATION BASED ON "AS-BUILT DRAWINGS" PROVIDED BY: "MCKNIGHT.CHARRON.LAUREN INC. ARCHITECTS", DATED DECEMBER 2009. LOCATION OF ITEMS SHOWN ARE TO BE CONSIDERED APPROXIMATE. CONFIRM ACTUAL LOCATIONS, DIMENSIONS AND CONDITIONS ON SITE. NUMBER OF FLOORS ABOVE GROUND: 1
NUMBER OF FLOORS BELOW GROUND: 0
MAXIMUM NUMBER OF OCCUPANTS(2018): 100 NON- SPRINKLERED BUILDING, COMBUSTIBLE

SITE INFORMATION
NUMBER OF CLASSROOMS: 11 (NO.)
SIZE OF GYM: 223 (SQ.M.) NUMBER OF PARKING SPACES: EXISTING: 26 REQUIRED: 59 NUMBER OF ACCESSIBLE PARKING SPACE: EXISTING: 1 REQUIRED: 2 SIZE OF PARKING:

EXISTING: 3MX6M & 2.7MX6M REQUIRED: 3MX6M SIZE OF ACCESSIBLE PARKING: 5MX6M

EEC- STE. CROIX DAYCARE INTERIOR RENOVATIONS

JAN11, 2021

FEB25, 2020

OCT 09, 2018

LDM ARCHITECTS INC. www.ldmarchitects.com 4 1 6 3 0 3 8 7 9 8

TINY, ON

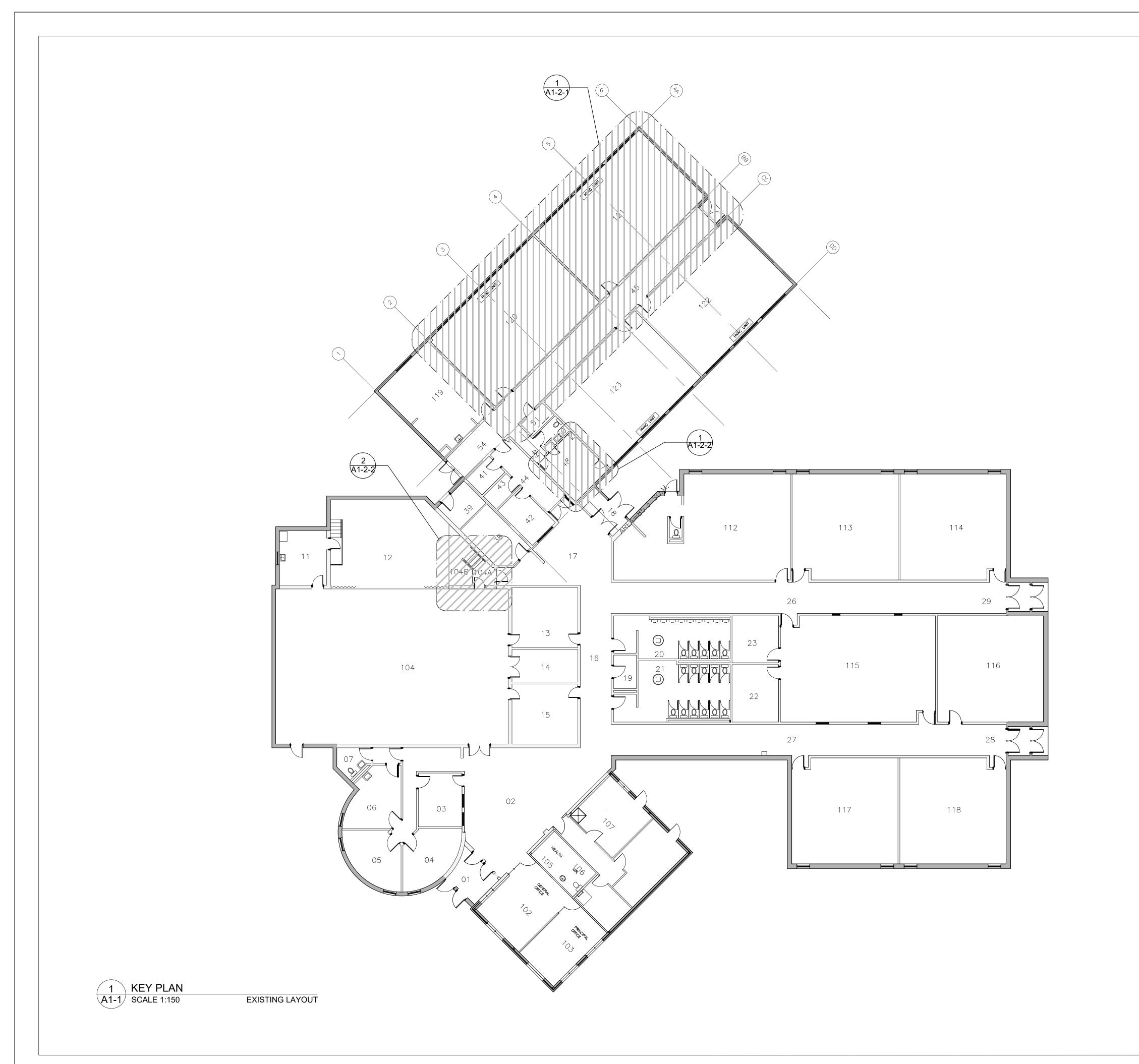


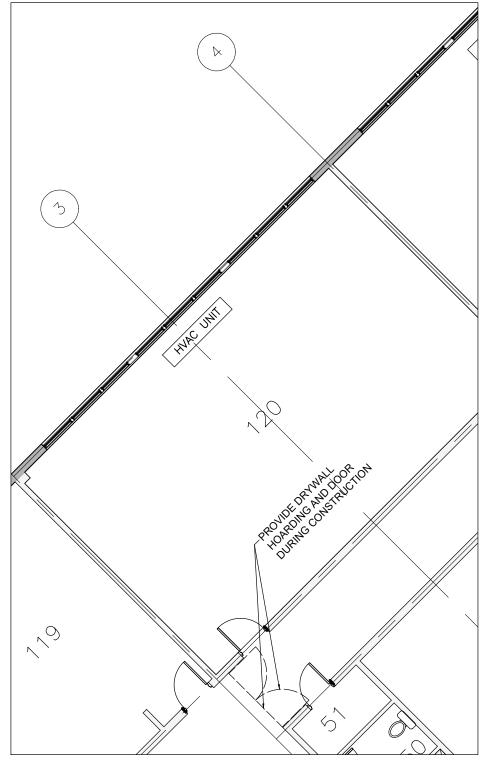
LIDA MOHAMMADI LICENCE

CONSEIL SCOLAIRE CATHOLIQUE MONAVENIR 110 DREWRY AVENUE TORONTO, ON

SITE PLAN

AS NOTED MAY 2018







GENERAL NOTES

1. ALL DIMENSIONS ARE TAKEN TO/FROM FACE OF EXISTING WALLS TO/FROM FACE OF PROPOSED FRAMING.

2. REFER TO MECHANICAL/ELECTRICAL DRAWINGS FOR MORE SPECIFIC INFORMATION.

3. COORDINATE WITH MECHANICAL/ ELECTRICAL ANY CUTTING AND PATCHING OF

EXISTING WALLS AS REQUIRED. PATCH AND MAKE GOOD WALL AFTER SERVICE

4. PATCH AND MAKE GOOD ALL GOUGES, HOLES AND MARKS ON EXISTING WALLS

TO REMAIN, PREPARE TO RECEIVE PRIMER AND PAINT.

5. MOVING OF FURNITURE AND EQUIPMENT TO BE COORDINATED BY CLIENT, UNLESS OTHERWISE INDICATED ON DRAWINGS.

6. UNLESS NOTED OTHERWISE ALL MILLWORKS BE CONSTRUCTED OF $^3\!/_{\!\!4}$ "-5PLY VENEER CORE PLYWOOD. 7. UNLESS NOTED OTHERWISE ALL CABINETS AND SHELVING SURFACES SHALL BE HARDWOOD VENEER WITH SOLID WOOD EDGE BANDING ON ALL EXPOSED EDGES. GABLE CLOSURE W/MATCHING VENEER CONTINUOUS AT ALL EXPOSED

8. ALL DIMENSIONS TO BE SITE VERIFIED BEFORE FABRICATION.

10. UNLESS NOTED OTHERWISE KEEP ALL WALL COVERINGS, FLOOR SURFACES/ BASES AND CEILINGS AS PER EXISTING.

9.PATCH AND MAKE GOOD WALLS/FLOORS/CEILINGS WHERE EXISTING WALL/BASE HAS BEEN REMOVED UNLESS NOTED.

10.UNLESS NOTED OTHERWISE NEW MATERIAL TO PATCH/ADD SHOULD MATCH

13.WHERE NEW PLUMBING FIXTURES ARE SHOWN, REMOVE DRYWALL AS REQ'D AND REPAIR AFTER PLUMBING COMPLETED.

11. CUT CONCRETE SLAB/ FLOORING FOR NEW PLUMBING AS REQ'D. REFER TO MECHANICAL DRAWINGS.

12. PROVIDE DUST HOARDING FOR EACH AREA OF WORK DURING DEMOLITION AND CONSTRUCTION.

13. CO-ORDINATE AS REQUIRED FOR RELOCATION OF OVER HEAD MECHANICAL

PIPES TO PASS ABOVE THE CEILING. 14. ENSURE CONTINUITY OF ALL FIRE SEPARATIONS. FIRE STOP ALL JOINTS AND

PENETRATIONS THROUGH FIRE SEPARATIONS W/ULC RATED FIRE STOPPING.

REFER TO MECHANICAL DRAWINGS FOR SIZE AND LOCATION OF THE DIFFUSERS, GRILLES AND LOUVERS.

-VERIFY ALL DIMENSIONS

MEASUREMENTS TO BE CONFIRMED ON SITE VERIFY/CONFIRM LOCATION/DIMENSIONS REFER TO THE EXISTING

COMPONENTS AND EQUIPMENTS -DO NOT SCALE DRAWINGS

-REPORT ANY DISCREPANCIES, DISCOVERED ERRORS OR OMISSIONS TO THE ARCHITECT BEFORE PROCEEDING

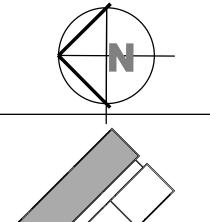
-IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO ENSURE THAT THE DRAWINGS WITH THE LATEST PROVISIONS ARE USED FOR CONSTRUCTION

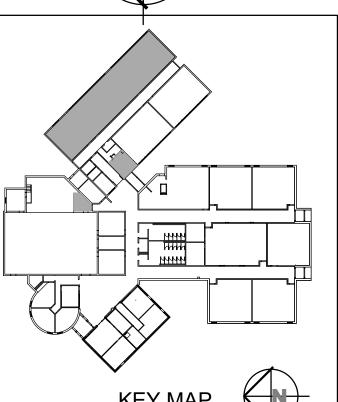
LEGEND

EXISTING WALLS TO REMOVE

EXISTING WALLS TO REMAIN

NEW WALLS





ISSUED FOR RE-TENDER

ISSUED FOR PERMIT/TENDER FEB25, 2020 SUBMITTED FOR TENDER & PERMIT JULY 5, 2018 ISSUED FOR 99% DESIGN JUNE 22, 2018

SUBMITTED TO CITY- SITE PLAN REVIEW JUNE 21, 2018 ISSUED FOR 66% DESIGN JUNE 08, 2018 ISSUED FOR 33% DESIGN MAY 22, 2018

S ARCHITECTS Z LICENCE



JAN11, 2021

EEC- STE. CROIX DAYCARE INTERIOR RENOVATIONS

TINY, ON

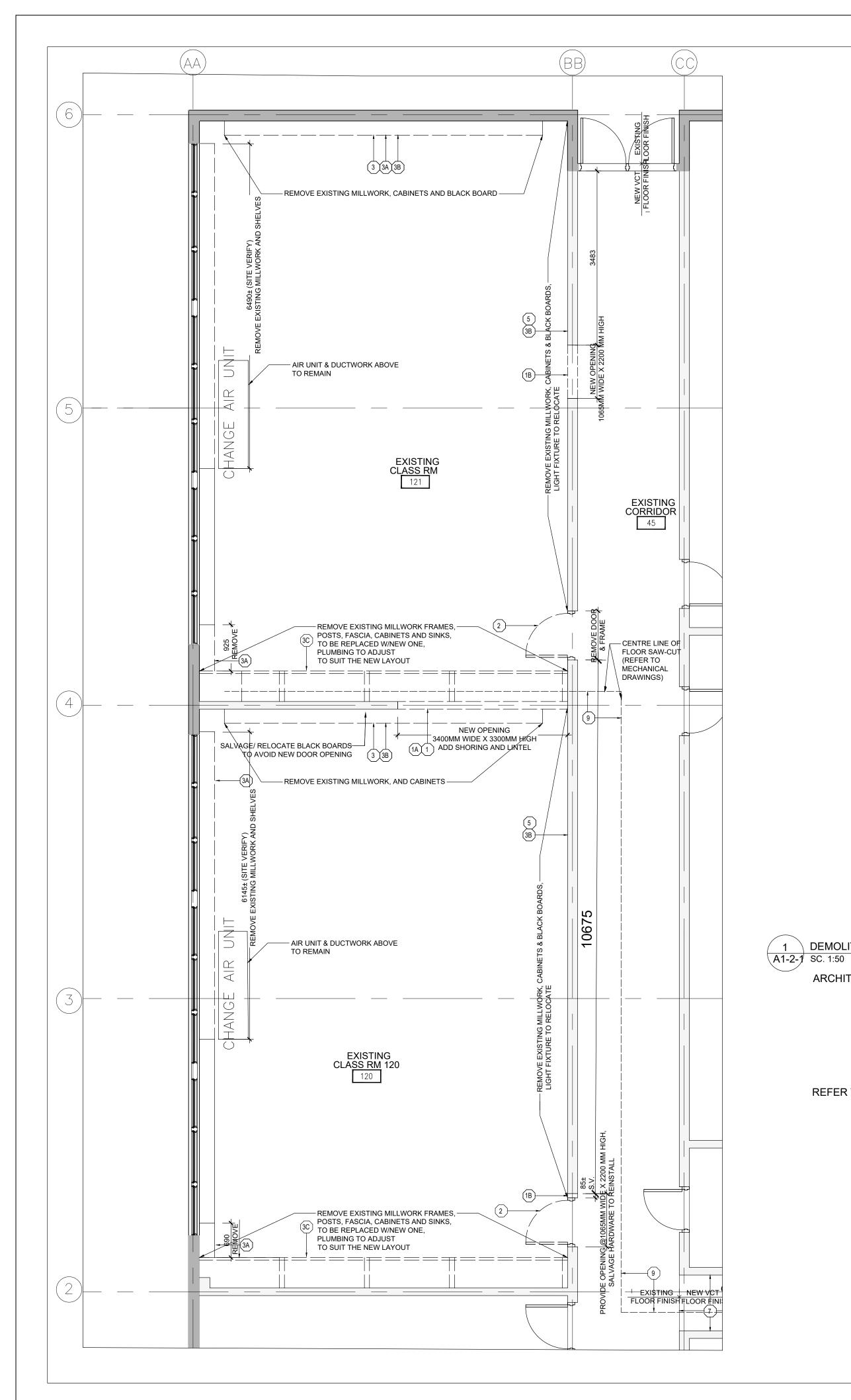


CONSEIL SCOLAIRE CATHOLIQUE MONAVENIR 110 DREWRY AVENUE TORONTO, ON

EXISTING LAYOUT & KEY PLAN

AS NOTED

MAY 2018



GENERAL NOTES

FACE OF PROPOSED FRAMING.

2. REFER TO MECHANICAL/ELECTRICAL DRAWINGS FOR MORE SPECIFIC INFORMATION.

3. COORDINATE WITH MECHANICAL/ ELECTRICAL ANY CUTTING AND PATCHING OF EXISTING WALLS AS REQUIRED. PATCH AND MAKE GOOD WALL AFTER SERVICE INSTALLATION.

4. PATCH AND MAKE GOOD ALL GOUGES, HOLES AND MARKS ON EXISTING WALLS TO REMAIN, PREPARE TO RECEIVE PRIMER AND PAINT.

5. MOVING OF FURNITURE AND EQUIPMENT TO BE COORDINATED BY CLIENT, UNLESS OTHERWISE INDICATED ON DRAWINGS.

6. UNLESS NOTED OTHERWISE ALL MILLWORKS BE CONSTRUCTED OF $\frac{3}{4}$ "-5PLY VENEER CORE PLYWOOD.

7. UNLESS NOTED OTHERWISE ALL CABINETS AND SHELVING SURFACES SHALL BE HARDWOOD VENEER WITH SOLID WOOD EDGE BANDING ON ALL EXPOSED EDGES. GABLE CLOSURE W/MATCHING VENEER CONTINUOUS AT ALL EXPOSED

8. ALL DIMENSIONS TO BE SITE VERIFIED BEFORE FABRICATION. 10. UNLESS NOTED OTHERWISE KEEP ALL WALL COVERINGS, FLOOR SURFACES/

BASES AND CEILINGS AS PER EXISTING. 9.PATCH AND MAKE GOOD WALLS/FLOORS/CEILINGS WHERE EXISTING

WALL/BASE HAS BEEN REMOVED UNLESS NOTED. 10.UNLESS NOTED OTHERWISE NEW MATERIAL TO PATCH/ADD SHOULD MATCH

13.WHERE NEW PLUMBING FIXTURES ARE SHOWN, REMOVE DRYWALL AS REQ'D AND REPAIR AFTER PLUMBING COMPLETED.

11. CUT CONCRETE SLAB/ FLOORING FOR NEW PLUMBING AS REQ'D. REFER TO MECHANICAL DRAWINGS.

12. PROVIDE DUST HOARDING FOR EACH AREA OF WORK DURING DEMOLITION

13. CO-ORDINATE AS REQUIRED FOR RELOCATION OF OVER HEAD MECHANICAL PIPES TO PASS ABOVE THE CEILING.

14. ENSURE CONTINUITY OF ALL FIRE SEPARATIONS. FIRE STOP ALL JOINTS AND PENETRATIONS THROUGH FIRE SEPARATIONS W/ULC RATED FIRE STOPPING.

REFER TO MECHANICAL DRAWINGS FOR SIZE AND LOCATION OF THE DIFFUSERS, GRILLES AND LOUVERS.

DEMOLITION NOTES NOTE: REFER TO DEMO NOTES AS IDENTIFIED ON EACH 1. ALL DIMENSIONS ARE TAKEN TO/FROM FACE OF EXISTING WALLS TO/FROM DRAWING. ALL DEMO NOTES MIGHT NOT APPEAR ON EVERY

-REMOVE EXISTING WALL, FRAMING TO U/S OF SLAB.

-PROVIDE REQ'D SUPPORT/SHORING BEFORE REMOVAL OF EXISTING WALL. B) -CUT OPENING (1065W X2100H) IN EXISTING WALL

-REMOVE EXISTING DOOR, FRAME AND HARDWARE, SALVAGE & DELIVER TO THE OWNER. -REMOVE EXISTING DOOR AND HARDWARE, SALVAGE

FOR INSTALLATION OF NEW BARRIER FREE DOOR.

TO REINSTALL OPPOSITE SIDE/SWING AS SHOWN. -REMOVE EXISTING CABINETS, SHELVES AND MILLWORK TO REPLACE WITH NEW ONES. (RELOCATE EXISTING OUTLETS TO SUIT NEW

3A -REMOVE EXISTING SHELF AND SUPPORT -FINISH EXPOSED SURFACE OF REMAINING W/ ABUSE & MOLD RESISTANT TYPE "X" DRYWALL.

MILLWORK/LAYOUT AS REQ'D. (REFER TO ELECTRICAL)

B) -REMOVE EXISTING TACK BOARDS, SALVAGE TO REFINISH AND REINSTALL WHERE INDICATED, ADJUST TO SUIT TO NEW LAYOUT. -CAP EXISTING UNUSED ELECTRICAL DEVICES, SPEAKERS AND FIRE ALARM TO PROVIDE WITH UPGRADED ONES.(REFER TO ELECTRICAL).

- REMOVE EXISTING CABINETS, SHELVES AND MILLWORK, SALVAGE TO REPLACE WITH NEW ONES. ALL MILLWORKS TO DELIVER TO THE OWNER. (RELOCATE EXISTING OUTLETS TO SUIT NEW MILLWORK/LAYOUT AS REQ'D. (REFER TO ELECTRICAL)

-REMOVE EXISTING CABINETS, SINK AND FAUCET, CAP DRAIN, DISCONNECT PLUMBING (REFER TO MECHANICAL)

-REMOVE EXISTING PLUMBING FIXTURE, CAP DRAIN, DISCONNECT PLUMBING, PREPARE FOR INSTALLATION OF NEW WASHER & DRYER.

-REMOVE & SAVAGE LIGHT FIXTURES, CAP EXISTING UNUSED ELECTRICAL SERVICES AND PROVIDE NEW OUTLETS (POWER, DATA, VOICE) TO SUIT NEW LAYOUT AS REQ'D. (REFER TO ELECTRICAL).

-DISCONNECT & REMOVE VENT PIPE AND WALL HUNG DRYER, PREPARE WALL FOR NEW KITCHEN CABINETS. (REFER TO MECHANICAL)

-REMOVE EXISTING LIGHT FIXTURE, CAP EXISTING UNUSED ELECTRICAL SERVICES AND PROVIDE NEW OUTLETS (POWER, DATA, VOICE) TO SUIT NEW LAYOUT AS REQ'D. (REFER TO ELECTRICAL).

(FRAMING ASSUMED WOODEN- CONTRACTOR TO CONFIRM). REFER TO DSR REPORT FOR ASBESTOS

-REMOVE EXISTING FLOORING C/W FRAMING UNDERNEATH,

7A -REMOVE AND SALVAGE EXISTING STAIRS & RAILING TO REINSTALL.

7R -REMOVE EXISTING TOP LAYER OF FLOORING C/W WITH BASE, CLEAN TO REACH TO SLAB OR UNDERLAYMENT. ASBESTOS REMOVAL AS REQ'D. CONTRACTOR TO CARRY ENVIRONMENTAL CONSULTANT FOR ABATEMENT

-REMOVE EXISTING FLOORING C/W FRAMING UNDERNEATH TO REACH TO SLAB. -CUT SLAB TO 3" DEEP FOR LIFT PIT, PREPARE FOR INSTALLATION OF VERTICAL WHEELCHAIR LIFT

(DIMENSIONS TO CONFIRM W/MANUFACTURER) 9 -SAW CUT EXISTING SLAB FOR NEW DRAIN PIPE

(REFER TO MECHANICAL).

NOTE WHERE REQUIRED: -PROVIDE SUPPORT/SHORING BEFORE REMOVAL OF EXISTING WALL. -REMOVE AND DISPOSE OF ALL DOORS, PARTITIONS AND ACCESSORIES WHERE INDICATED. -CAP ALL EXISTING ELECTRICAL SERVICES AS REQ'D.(REFER TO ELECTRICAL). -CAP DRAINS/DISCONNECT PLUMBING WHERE INDICATED.(REFER TO MECHANICAL). -REFER TO MECHANICAL & ELECTRICAL DRAWINGS FOR REMOVAL OF MECH/ELEC. ITEMS. -REMOVAL AND RELOCATION OF EXISTING CABINETS, BENCHES, TABLES AND FURNITURE TO CO-ORDINATE WITH THE OWNER.

VERIFY ALL DIMENSIONS

MEASUREMENTS TO BE CONFIRMED ON SITE VERIFY/CONFIRM LOCATION/DIMENSIONS REFER TO THE EXISTING OMPONENTS AND EQUIPMENTS

-DO NOT SCALE DRAWINGS REPORT ANY DISCREPANCIES, DISCOVERED ERRORS OR

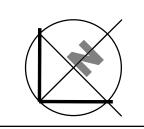
MISSIONS TO THE ARCHITECT BEFORE PROCEEDING T IS THE RESPONSIBILITY OF THE CONTRACTOR TO ENSURE THAT THE DRAWINGS WITH THE LATEST PROVISIONS ARE USED FOR

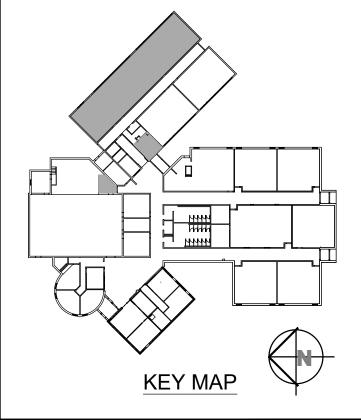
LEGEND

EXISTING WALLS TO REMOVE

EXISTING WALLS TO REMAIN

NEW WALLS





ISSUED FOR RE-TENDER JAN11, 2021 ISSUED FOR PERMIT/TENDER FEB25, 2020 SCOPE REDUCTION-CLIENT REVIEW APR26, 2019 SUBMITTED FOR TENDER & PERMIT JULY 5, 2018 ISSUED FOR 99% DESIGN JUNE 22, 2018 ISSUED FOR 66% DESIGN JUNE 08, 2018



ISSUED FOR 33% DESIGN



MAY 22, 2018

EEC- STE. CROIX DAYCARE INTERIOR RENOVATIONS

TINY, ON



CONSEIL SCOLAIRE CATHOLIQUE MONAVENIR 110 DREWRY AVENUE TORONTO, ON

SELECTIVE DEMOLITION LAYOUTS ROOMS 120 &121

AS NOTED MAY 2018

2018-11B

DEMOLITION LAYOUT

CLASS ROOMS 120 & 121

ARCHITECTURAL: - REMOVE DOOR AND EXISTING WALLS WHERE INDICATED. SALVAGE DOOR HARDWARE,

DELIVER TO THE OWNER AND REINSTALL ON THE NEW DOOR. - REMOVE DOOR, SALVAGE TO REINSTALL OPPOSITE SIDE.

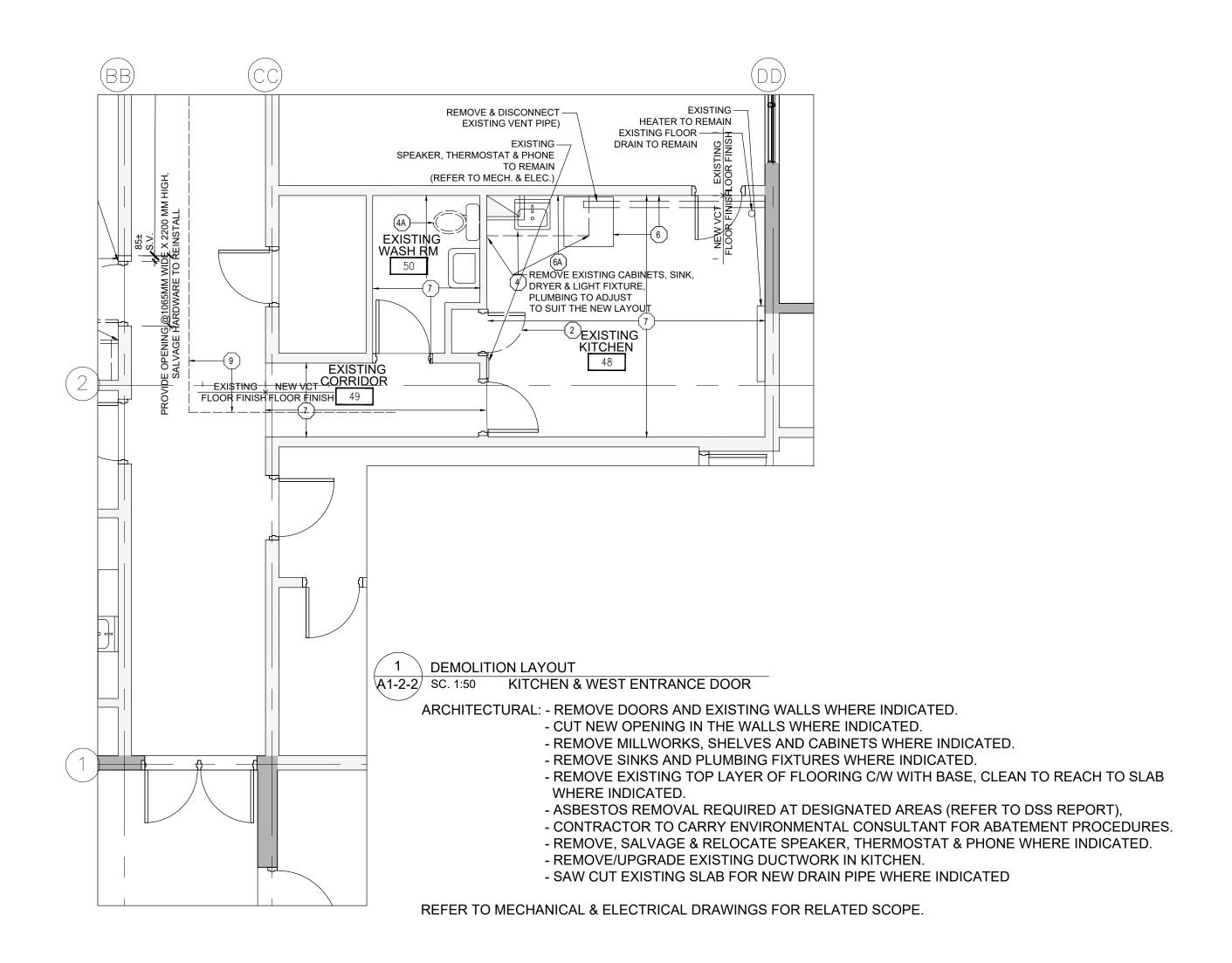
- CUT NEW OPENING IN THE WALLS WHERE INDICATED.

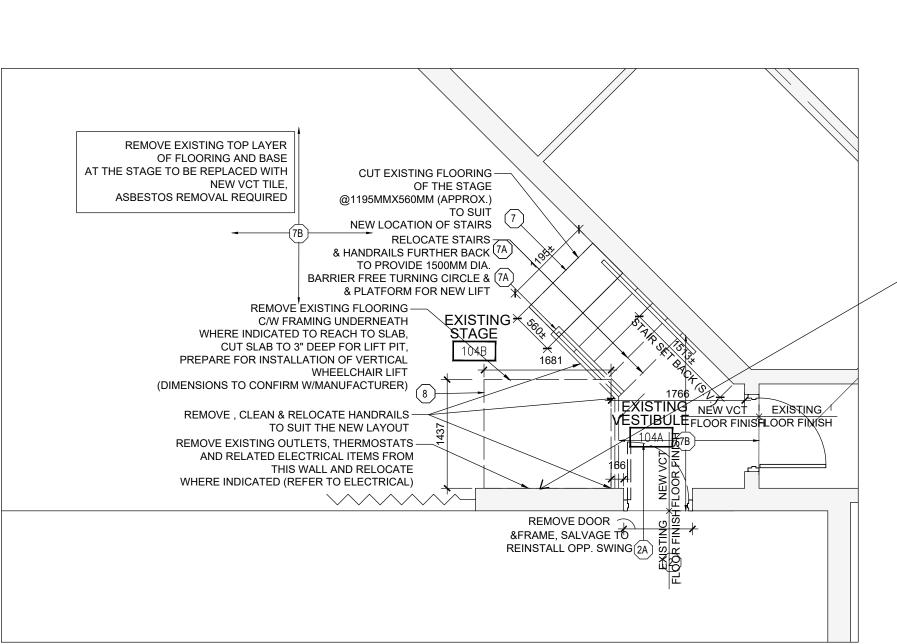
- REMOVE MILLWORK FRAMES, PASTS, FASCIA & CABINETS WHERE INDICATED.

- REMOVE SINKS WHERE INDICATED.

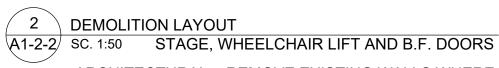
- SAW CUT EXISTING SLAB FOR NEW DRAIN PIPE. - REMOVE LIGHT FIXTURES WHERE INDICATED, REORGANIZE EXISTING CEILING.

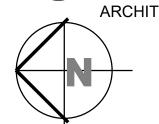
REFER TO MECHANICAL & ELECTRICAL DRAWINGS FOR RELATED SCOPE.











ARCHITECTURAL: - REMOVE EXISTING WALLS WHERE INDICATED. - REMOVE AND SALVAGE DOOR AND HARDWARE WHERE INDICATED TO REINSTALL AS SHOWN

- REMOVE STAIRS AS INDICATED TO RELOCATE FURTHER BACK AS SHOWN.

- REMOVE, SALVAGE AND CLEAN HANDRAILS TO RELOCATE WHERE

INDICATED.

- CUT NEW OPENINGS ON THE EXISTING FLOORING OF THE STAGE

WHERE INDICATED. - CUT SLAB AT NEW LOCATION OF LIFT TO PROVIDE 3" DEEP PIT. - REMOVE ELECTRICAL OUTLETS. CONTROL PANEL AND TEMPERATURE

REFER TO MECHANICAL & ELECTRICAL DRAWINGS FOR RELATED SCOPE.

SENSORS FROM WEST WALL WHERE INDICATED.

GENERAL NOTES

1. ALL DIMENSIONS ARE TAKEN TO/FROM FACE OF EXISTING WALLS TO/FROM FACE OF PROPOSED FRAMING.

2. REFER TO MECHANICAL/ELECTRICAL DRAWINGS FOR MORE SPECIFIC INFORMATION.

3. COORDINATE WITH MECHANICAL/ ELECTRICAL ANY CUTTING AND PATCHING OF EXISTING WALLS AS REQUIRED. PATCH AND MAKE GOOD WALL AFTER SERVICE

4. PATCH AND MAKE GOOD ALL GOUGES, HOLES AND MARKS ON EXISTING WALLS TO REMAIN, PREPARE TO RECEIVE PRIMER AND PAINT.

5. MOVING OF FURNITURE AND EQUIPMENT TO BE COORDINATED BY CLIENT, UNLESS OTHERWISE INDICATED ON DRAWINGS.

6. UNLESS NOTED OTHERWISE ALL MILLWORKS BE CONSTRUCTED OF $\frac{3}{4}$ "-5PLY VENEER CORE PLYWOOD.

7. UNLESS NOTED OTHERWISE ALL CABINETS AND SHELVING SURFACES SHALL BE HARDWOOD VENEER WITH SOLID WOOD EDGE BANDING ON ALL EXPOSED EDGES. GABLE CLOSURE W/MATCHING VENEER CONTINUOUS AT ALL EXPOSED

10. UNLESS NOTED OTHERWISE KEEP ALL WALL COVERINGS, FLOOR SURFACES/ BASES AND CEILINGS AS PER EXISTING.

8. ALL DIMENSIONS TO BE SITE VERIFIED BEFORE FABRICATION.

9.PATCH AND MAKE GOOD WALLS/FLOORS/CEILINGS WHERE EXISTING WALL/BASE HAS BEEN REMOVED UNLESS NOTED.

10.UNLESS NOTED OTHERWISE NEW MATERIAL TO PATCH/ADD SHOULD MATCH

13.WHERE NEW PLUMBING FIXTURES ARE SHOWN, REMOVE DRYWALL AS REQ'D AND REPAIR AFTER PLUMBING COMPLETED.

11. CUT CONCRETE SLAB/ FLOORING FOR NEW PLUMBING AS REQ'D. REFER TO MECHANICAL DRAWINGS.

12. PROVIDE DUST HOARDING FOR EACH AREA OF WORK DURING DEMOLITION AND CONSTRUCTION.

13. CO-ORDINATE AS REQUIRED FOR RELOCATION OF OVER HEAD MECHANICAL PIPES TO PASS ABOVE THE CEILING.

14. ENSURE CONTINUITY OF ALL FIRE SEPARATIONS. FIRE STOP ALL JOINTS AND PENETRATIONS THROUGH FIRE SEPARATIONS W/ULC RATED FIRE STOPPING.

REFER TO MECHANICAL DRAWINGS FOR SIZE AND LOCATION OF THE DIFFUSERS, GRILLES AND LOUVERS.

DEMOLITION NOTES NOTE: REFER TO DEMO NOTES AS IDENTIFIED ON EACH DRAWING. ALL DEMO NOTES MIGHT NOT APPEAR ON EVERY

> -REMOVE EXISTING WALL, FRAMING TO U/S OF SLAB. -PROVIDE REQ'D SUPPORT/SHORING BEFORE

REMOVAL OF EXISTING WALL. 3 -CUT OPENING (1065W X2100H) IN EXISTING WALL FOR INSTALLATION OF NEW BARRIER FREE DOOR.

-REMOVE EXISTING DOOR, FRAME AND HARDWARE, SALVAGE & DELIVER TO THE OWNER. -REMOVE EXISTING DOOR AND HARDWARE, SALVAGE

-REMOVE EXISTING CABINETS, SHELVES AND MILLWORK TO REPLACE WITH NEW ONES. (RELOCATE EXISTING OUTLETS TO SUIT NEW MILLWORK/LAYOUT AS REQ'D. (REFER TO ELECTRICAL)

TO REINSTALL OPPOSITE SIDE/SWING AS SHOWN.

3A -REMOVE EXISTING SHELF AND SUPPORT -FINISH EXPOSED SURFACE OF REMAINING W/ ABUSE & MOLD RESISTANT TYPE "X" DRYWALL.

B) -REMOVE EXISTING TACK BOARDS, SALVAGE TO REFINISH AND REINSTALL WHERE INDICATED, ADJUST TO SUIT TO NEW LAYOUT. -CAP EXISTING UNUSED ELECTRICAL DEVICES, SPEAKERS AND FIRE ALARM TO PROVIDE WITH UPGRADED ONES.(REFER TO ELECTRICAL).

- REMOVE EXISTING CABINETS, SHELVES AND MILLWORK, SALVAGE TO REPLACE WITH NEW ONES. ALL MILLWORKS TO DELIVER TO THE OWNER. (RELOCATE EXISTING OUTLETS TO SUIT NEW MILLWORK/LAYOUT AS REQ'D. (REFER TO ELECTRICAL)

-REMOVE EXISTING CABINETS, SINK AND FAUCET, CAP DRAIN, DISCONNECT PLUMBING.(REFER TO MECHANICAL)

-REMOVE EXISTING PLUMBING FIXTURE, CAP DRAIN, DISCONNECT PLUMBING, PREPARE FOR INSTALLATION OF NEW WASHER & DRYER.

-REMOVE & SAVAGE LIGHT FIXTURES, CAP EXISTING UNUSED ELECTRICAL SERVICES AND PROVIDE NEW OUTLETS (POWER, DATA, VOICE) TO SUIT NEW LAYOUT AS REQ'D. (REFER TO ELECTRICAL).

-DISCONNECT & REMOVE VENT PIPE AND WALL HUNG DRYER, PREPARE WALL FOR NEW KITCHEN CABINETS. (REFER TO MECHANICAL)

-REMOVE EXISTING LIGHT FIXTURE, CAP EXISTING UNUSED ELECTRICAL SERVICES AND PROVIDE NEW OUTLETS (POWER, DATA, VOICE) TO SUIT NEW LAYOUT AS REQ'D. (REFER TO ELECTRICAL). -REMOVE EXISTING FLOORING C/W FRAMING UNDERNEATH,

(FRAMING ASSUMED WOODEN- CONTRACTOR TO CONFIRM). REFER TO DSR REPORT FOR ASBESTOS

7A -REMOVE AND SALVAGE EXISTING STAIRS & RAILING TO

REMOVE EXISTING TOP LAYER OF FLOORING C/W WITH BASE, CLEAN TO REACH TO SLAB OR UNDERLAYMENT. ASBESTOS REMOVAL AS REQ'D. CONTRACTOR TO CARRY ENVIRONMENTAL CONSULTANT FOR ABATEMENT

-REMOVE EXISTING FLOORING C/W FRAMING UNDERNEATH TO REACH TO SLAB. -CUT SLAB TO 3" DEEP FOR LIFT PIT, PREPARE FOR INSTALLATION OF VERTICAL WHEELCHAIR LIFT

(DIMENSIONS TO CONFIRM W/MANUFACTURER) 9 -SAW CUT EXISTING SLAB FOR NEW DRAIN PIPE

(REFER TO MECHANICAL). NOTE WHERE REQUIRED -PROVIDE SUPPORT/SHORING BEFORE REMOVAL OF EXISTING WALL -REMOVE AND DISPOSE OF ALL DOORS, PARTITIONS AND ACCESSORIES WHERE INDICATED. -CAP ALL EXISTING ELECTRICAL SERVICES AS REQ'D.(REFER TO ELECTRICAL). -CAP DRAINS/DISCONNECT PLUMBING WHERE INDICATED.(REFER TO MECHANICAL). -REFER TO MECHANICAL & ELECTRICAL DRAWINGS FOR REMOVAL OF MECH/ELEC. ITEMS. -REMOVAL AND RELOCATION OF EXISTING CABINETS, BENCHES, TABLES AND FURNITURE TO CO-ORDINATE WITH THE OWNER.

VERIFY ALL DIMENSIONS MEASUREMENTS TO BE CONFIRMED ON SITE

VERIFY/CONFIRM LOCATION/DIMENSIONS REFER TO THE EXISTING OMPONENTS AND EQUIPMENTS DO NOT SCALE DRAWINGS

REPORT ANY DISCREPANCIES, DISCOVERED ERRORS OR MISSIONS TO THE ARCHITECT BEFORE PROCEEDING IS THE RESPONSIBILITY OF THE CONTRACTOR TO ENSURE THAT

THE DRAWINGS WITH THE LATEST PROVISIONS ARE USED FOR

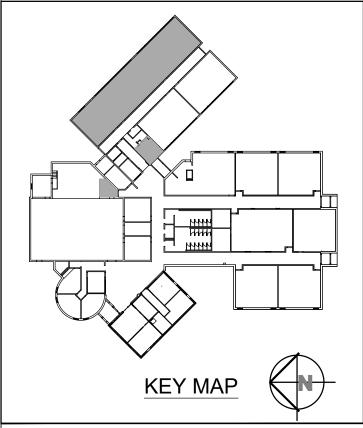
LEGEND

EXISTING WALLS TO REMOVE

EXISTING WALLS TO REMAIN

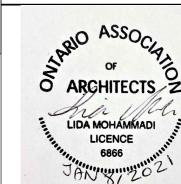
NEW WALLS





ISSUED FOR RE-TENDER JAN11, 2021 ISSUED FOR PERMIT/TENDER FEB25, 2020 SCOPE REDUCTION-CLIENT REVIEW APR26, 2019 SUBMITTED FOR TENDER & PERMIT JULY 5, 2018 ISSUED FOR 99% DESIGN JUNE 22, 2018

JUNE 08, 2018 ISSUED FOR 66% DESIGN ISSUED FOR 33% DESIGN MAY 22, 2018 ISSUED FOR CLIENT REVIEW MAY 14, 2018





EEC- STE. CROIX DAYCARE INTERIOR RENOVATIONS

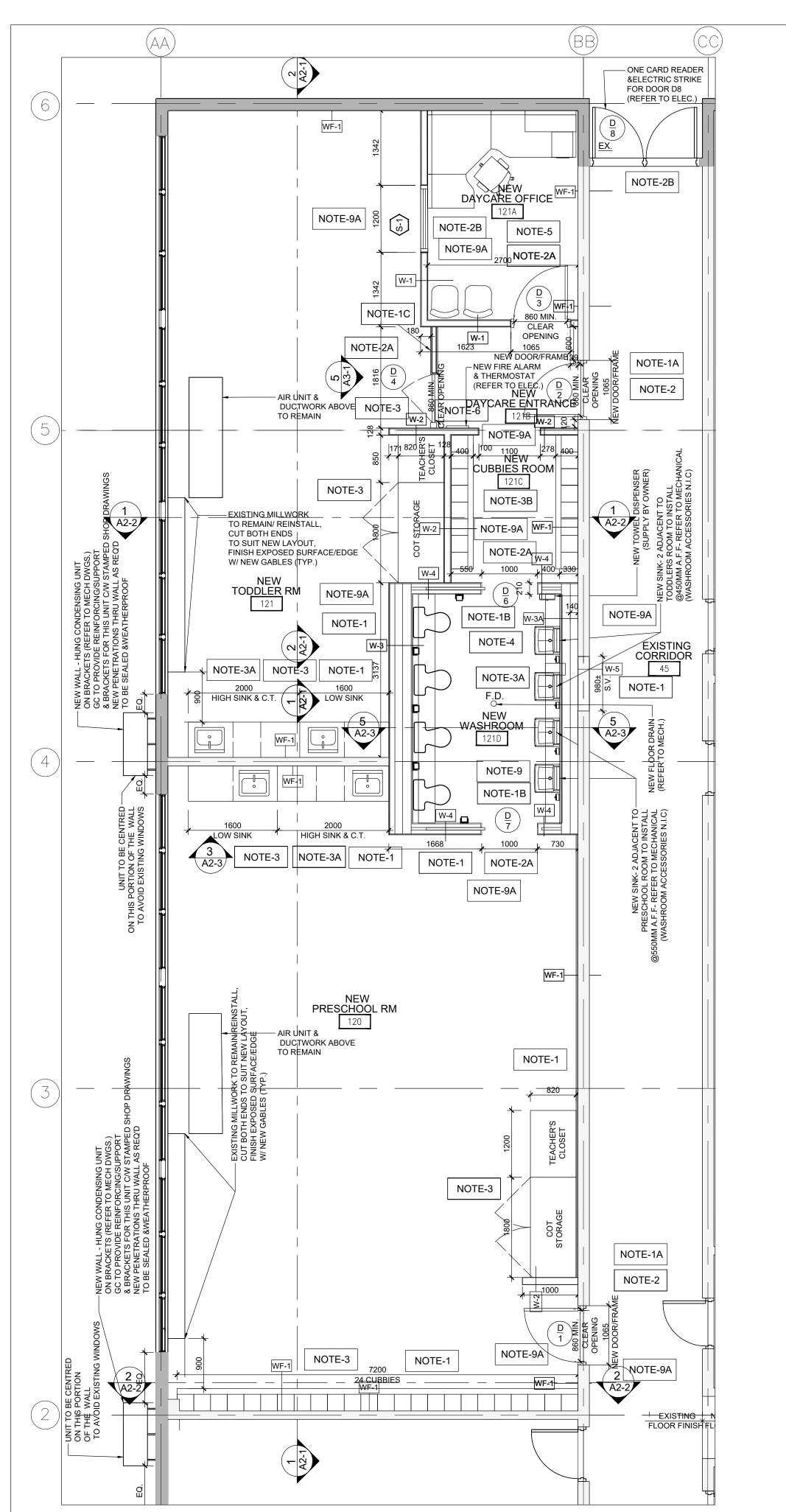
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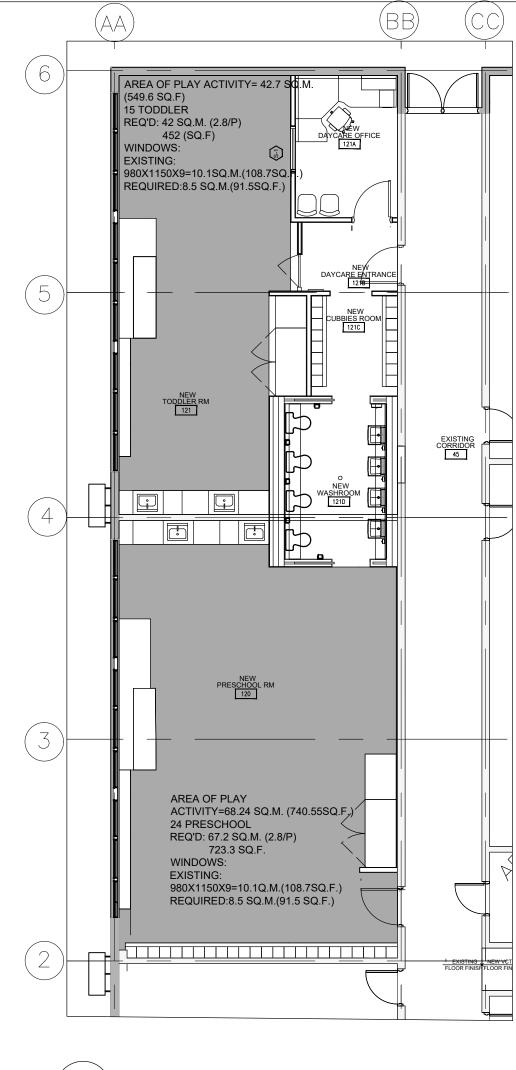


CONSEIL SCOLAIRE CATHOLIQUE MONAVENIR 110 DREWRY AVENUE TORONTO, ON

SELECTIVE DEMOLITION LAYOUTS KITCHEN & STAGE

AS NOTED MAY 2018





NEW LAYOUT

DAYCARE AREA CALCULATIONS

SC. 1:50 PRESCHOOL RM 120 & TODDLER RM 121

ARCHITECTURAL - SUPPLY & INSTALL NEW DOOR, FRAME AND HARDWARE WHERE INDICATED

- REINSTALL EXISTING DOOR C/W HARDWARE AS SHOWN WHERE INDICATED, PATCH & FINISH AS REQ'D.

NEW DOORS SERVING PUBLIC CORRIDOR TO BE 45 MIN. FIRE RATED.

- INFILL EXISTING OPENING WITH ONE HOUR FIRE RATED WALL, THICKNESS TO MATCH TO EXISTING.

-SUPPLY & INSTALL NEW SLIDING DOORS BETWEEN ROOM 120& 121 WHERE INDICATED.

-SUPPLY & INSTALL NEW 4' HIGH ENTRANCE GATE (WOOD) AND ADJACENT HALF WALL WHERE INDICATED.

- ADD NEW MILLWORKS INCLUDING CABINETS, HIGH & LOW SINK, LOW SINKS EQUIPPED W/ MIXING VALVES, CHANGING

TABLES, COT STORAGE AND TEACHER'S CLOSET WHERE INDICATED. LOW AND HIGH SINKS TO HAVE CLEANOUTS ACCESSIBLE. - CONSTRUCT NEW OFFICE INSIDE ROOM 121, INCLUDING VISION SCREENS AND B.F.DOOR.

- SUPPLY & INSTALL NEW TACK BOARDS & WHITE BOARDS WHERE INDICATED.

- ADD REMOVABLE BACK PANELS, SUPPORT PANELS/BRACKETS, ELEC. & DATA CONDUIT, PHONE, WIFI C/W

PASS THROUGH GROMMET AND POP UP OUTLET ON/BELOW COUNTER AT OFFICE SIDE WHERE INDICATED.

- CONSTRUCT NEW WASHROOM FOR CHILDREN INCLUDING 4 TOILETS, 4 SINKS EQUIPPED W/ MIXING VALVES

BETWEEN ROOMS 120 & 121 WITH ACCESS FROM BOTH ROOMS AS PER LAYOUT. INSTALL WASHROOM ACCESSORIES (TO BE

SUPPLIED BY OWNER (N.I.C.))

- SUPPLY & INSTALL NEW VCT FLOORING IN THE WASHROOM AND WHERE INDICATED.

- PATCH FLOORING TO MATCH TO EXISTING AT SAW CUTS. - PROVIDE PLUMBING, POWER AND EXHAUST FOR NEW WASHROOM.

- INSTALL WASHER & DRYER INSIDE LAUNDRY CLOSET, PROVIDE PLUMING, POWER AND EXHAUST TO OUTSIDE.

- PROVIDE AIPHONE INTERCOM AND ONE CARD READER OUTSIDE EXTERIOR DOOR LOCATED AT

WEST ENTRANCE & ONE CARD READER FOR EAST ENTRANCE WHERE INDICATED.

- UPGRADE VENTILATION, AND FIRE ALARM SYSTEM FOR DESIGNATED AREAS.

- PATCH FLOORING TO MATCH TO EXISTING WHERE INDICATED AND AT SAW CUTS - CLEAN & REINSTALL LIGHT FIXTURES AND SUSPENSION CEILING AS PER THE NEW LAYOUT.

- UPGRADE VENTILATION/ COOLING SYSTEM BY ADDING NEW REMOTE CONDENSING UNITS FOR ROOMS 120 & 121 &

ADJUSTMENTS TO EXISTING BAS CONTROLS (REFER TO MECHANICAL)

- PROVIDE REINFORCING/ SUPPORT & BRACKETS FOR NEW WALL-HUNG CONDENSING UNITS, ENGINEERING STAMPED

SHOP DRAWINGS REQUIRED TO REVIEW.

- NEW PENETRATIONS THRU EXISTING WALL TO BE SEALED &WEATHERPROOF.

- NEW EXPOSED DUCTWORK PAINT TO MATCH TO EXISTING.

- RELOCATE/ADD FIRE ALARMS (REFER TO ELECTRICAL). - UPGRADE SPEAKERS FOR THE AREA OF WORK.

REFER TO MECHANICAL, ELECTRICAL AND STRUCTURAL DRAWINGS FOR RELATED SCOPE OF WORK.

PARTITION TYPES

A. ALL NEW PARTITIONS TO U/S/ OF SLAB, UNLESS OTHERWISE NOTED. B. REFER TO ROOM SCHEDULE FOR FINISHES.

C. ALL ELECTRICAL/MECHANICAL DEVICES TO BE

MOVED TO FACE OF NEW PARTITION. W-1 INTERIOR NON-LOAD BEARING WALL

1 HOUR F.R.R. ULC #W407 -15.9MM TYPE X GYPSUM WALL BOARD

-89MM ACOUSTIC BATT INSULATION -31MM X 92MM STEEL STUD @400mm O.C -15.9MM TYPE X GYPSUM WALL BOARD

-FLOOR TO U/S OF STRUCTURE -FINISH AS PER FINISH SCHEDULE, PERIMETER CAULKED

W-2 INTERIOR NON-LOAD BEARING WALL -15.9MM GYPSUM WALL BOARD -31MM X 92MM STEEL STUD @400mm O.C.

-89MM ACOUSTIC BATT INSULATION -15.9MM GYPSUM WALL BOARD -FLOOR TO U/S OF STRUCTURE -FINISH AS PER FINISH SCHEDULE -PERIMETER CAULKED

W-F1 INTERIOR FURRING

TO UNDERNEATH OF THE EXISTING CEILING -22MM METAL FURRING CHANEL @610mm O.C. -12.7MM GYPSUM WALL BOARD -FINISH AS PER FINISH SCHEDULE

W-3 INTERIOR NON-LOAD BEARING WALL -CERAMIC TILE UP TO 1000MM ABOVE FINISHED FLOOR

(INSIDE WASHROOM) -16MM CEMENT BACKER BOARD (C.B.U) FLOOR TO U/S OF STRUCTURE -16MM PLYWOOD BLOCKING AS REQ'D FOR MILLWORK AND WASHROOM ACCESSORIES INSTALLATION -WATER PROOFING MEMBRANE -152MM METAL STUDS AT 400MM O.C

-140MM AIR/PLUMBING SPACE -89MM ACOUSTIC BATT INSULATION -92mmMM METAL STUDS AT 400MM O.C. -15.9MM GYPSUM WALL BOARD TO U/S OF STRUCTURE -FINISH AS PER FINISH SCHEDULE

W-3A INTERIOR NON-LOAD BEARING WALL -CERAMIC TILE UP TO 1000MM ABOVE FINISHED FLOOR (INSIDE WASHROOM)

-PERIMETER CAULKED

-16MM CEMENT BACKER BOARD (C.B.U) FLOOR TO U/S OF STRUCTURE -16MM PLYWOOD BLOCKING AS REQ'D FOR MILLWORK AND WASHROOM ACCESSORIES INSTALLATION -WATER PROOFING MEMBRANE -152MM METAL STUDS AT 400MM O.C

-150MM ACOUSTIC BATT INSULATION

-140MM AIR/PLUMBING SPACE -EXISTING WALL -FINISH AS PER FINISH SCHEDULE -PERIMETER CAULKED

W-4 INTERIOR NON-LOAD BEARING WALL -CERAMIC TILE UP TO 1000MM ABOVE FINISHED FLOOR (INSIDE WASHROOM)

-16MM CEMENT BACKER BOARD (C.B.U) FLOOR TO U/S OF STRUCTURE -16MM PLYWOOD BLOCKING AS REQ'D FOR MILLWORK AND WASHROOM ACCESSORIES INSTALLATION -WATER PROOFING MEMBRANE

-31MM X 64 MM STEEL STUD @400MM O.C -500 AIR SPACE FOR POCKET DOOR -31MM X 64 MM STEEL STUD @400MM O.C -15.9MM GYPSUM WALL BOARD

-FLOOR TO U/S OF STRUCTURE -FINISH AS PER FINISH SCHEDULE -PERIMETER CAULKED

W-5 INTERIOR NON-LOAD BEARING WALL-INFILL 1 HOUR F.R.R. OBC#B2C -12.7MM GYPSUM WALL BOARD (ON CORRIDOR SIDE)

-140MM CONCRETE MASONRY UNIT -FLOOR TO U/S OF STRUCTURE -FINISH AS PER FINISH SCHEDULE, PERIMETER CAULKED -ENSURE MORTAR IS PACKED COMPLETELY AND FIRE SEPARATION IS CONTINUOUS THICKNESS TO MATCH TO EXISTING

CONSTRUCTION NOTES

NOTE-1 -PATCH +M.G. WALL/CEILING/FLOOR SURFACES PROVIDE STAMPED SHOP DRAWINGS FOR NEW STEEL STUD FRAMING -TO INFILL THE OPENINGS AT LOCATIONS WITH CMU

ALLOW FOR TOOTING-IN OF NEW BLOCK -FINISH EDGES OF EXPOSED WALLS TO MATCH TO NOTE-1A EXISTING, WHERE APPLICABLE AT BLOCK WALL → W/BULLNOSE END BLOCKS. C/W MATCHING. MATERIAL, ALLOW FOR TOOTING-IN OF NEW BLOCKS, -REPORT ANY DISCREPANCIES, DISCOVERED ERRORS OR -PATCH +M.G. WALL/CEILING/FLOOR SURFACES,

WHERE WALLS REMOVED AT NEW OPENINGS. 7-FINISH EDGES OF OPENING SURROUND WITH PLAM
ON MOISTURE RESISTANT MDE PATCH +M.C.

THE DRAWINGS WITH THE LATEST PROVISIONS ARE USED FOR CONSTRUCTION NOTE-1B ON MOISTURE RESISTANT MDF, PATCH +M.G. WALL/CEILING/FLOOR SURFACES.

NOTE-1C 12.7MM DRYWALL ON BOTH SIDES OF 31MM X 64 MM STEEL STUD FRAMING @400MMO.C, C/W MELAMINE FINISH ON 19MM HDF CORE TO MATCH TO ADJACENT SWING GATE/POST - SUPPLY & INSTALL NEW DOOR/FRAME/HARDWARE

NOTE-2 | AS PER SCHEDULE. I-INSTALL JAMBS + HEAD (LINTELS TO COMPLY TO LINTEL SCHEDULE), REFER TO STRUC, DWGS. -DOOR TO BE EQUIPPED WITH DOOR CLOSER AS PER DOOR SCHEDULE -FOR DOOR AND DOOR FRAMES COLOUR CONTRAST REQ'D, REFER TO FINISH SCHEDULE

-FOR DOOR AND DOOR FRAMES COLOUR CONTRAST

- INSTALL NEW DOOR/FRAME/HARDWARE WHERE NOTE-2A INDICATED.] -INSTALL JAMBS + HEAD (W/2X4 FRAMING @16"O.C. AND GYPSUM BOARD -DOOR TO BE EQUIPPED WITH DOOR CLOSER

REQ'D, REFER TO FINISH SCHEDULE - INSTALL NEW ONE CARD READER, DOOR CLOSER & NOTE-2B ELECTRIC STRIKE FOR THE EXISTING DOOR

- INSTALL NEW AIPHONE AND ONE CARD READER NOTE-2C FOR THE EXISTING DOOR. AIPHONE TO CONNECT TO THE MAIN OFFICE.

- SUPPLY AND INSTALL NEW MILLWORKS INCLUDING NOTE-3 CABINETS, HIGH & LOW SINKS, CHANGING TABLES. COT STORAGE AND TEACHER'S CLOSET WHERE INDICATED (REFER TO MILL WORK DRAWINGS) -PROVIDE NEW OUTLETS. (REFER TO ELECTRICAL)

- SUPPLY & INSTALL SINKS & FAUCETS, CONNECT TO NOTE-3A EXISTING PLUMBING. (REFER TO MECHANICAL) PROVIDE NEW OUTLETS. (REFER TO ELECTRICAL)

NOTE-3B -SUPPLY AND INSTALL CUBBIES AND BENCH. (REFER TO MILLWORK DWG.S)

I-INSTALL WASHER & DRYER, CONNECT TO EXISTING NOTE-3C PLUMBING (REFER TO MECHANICAL) PROVIDE POWER (REFER TO ELECTRICAL) -PROVIDE EXHAUST DUCT TO EXTERIOR (REFER TO MECHANICAL)

NOTE-3D | CABINETS & SHELVES & COUNTERTOP C/W BACK SPLASH. (REFER TO MILLWORK DRAWINGS) -PROVIDE NEW OUTLETS. (REFER TO ELECTRICAL) -SUPPLY & INSTALL NEW TOILET FIXTURE,

NOTE-4 INSTALL WASHROOM ACCESSORIES (TO BE

- SUPPLY AND INSTALL NEW MILLWORKS INCLUDING

SUPPLIED BY OWNER.) - CONNECT TO EXISTING PLUMBING (REFER TO MECHANICAL). -PROVIDE CONDUIT FOR ELECTRICAL AND DATA NOTE-5 | BEHIND THE NEW BACK PANEL, C/W NEW OUTLET PASS THRU GROMMET FOR NEW OFFICE. (REFER TO ELECTRICAL). - INSTALL PA. THERMOSTAT & FIRE ALARM.

NOTE-7 - REINSTALL THE EXISTING DOOR W /OPPOSITE

NOTE-6 (REFER TO ELECTRICAL)

- INSTALL NEW WHEELCHAIR LIFT AS PER MANUAL NOTE-8 AND STRUCTURAL DRAWINGS. - REINSTALL EXISTING STAIRS AND RAILING WHERE

NOTE-8A INDICATED. ADJUST RAILING TO SUIT NEW LAYOUT. -PATCH AND MAKE GOOD FLOOR WHERE EXISTING NOTE-9 | SLAB FOR NEW DRAIN, LIFT AND OTHER AREAS HAS | ISSUED FOR CLIENT REVIEW | MAY 14, 2018 BEEN CUT OR REMOVED. - MAKE IT LEVEL AND READY FOR NEW FLOORING.

-SUPPLY & INSTALL NEW VCT TILES ON FLOOR. NOTE-9A CUTS. -PATCH FLOORING TO MATCH TO EXISTING AT SAW

-PATCH AND MAKE GOOD GOUGES, HOLES AND MARKS ON EXISTING WALLS TO REMAIN. ENSURE CONTINUITY OF ALL FIRE SEPARATIONS. FIRE STOP ALL JOINTS AND PENETRATIONS THROUGH FIRE SEPARATIONS.

WHERE THERE IS DIFFERENCE IN CEILING HEIGHTS. COVER VERTICALS EDGES OF THE RECESSED CELLING WITH DRYWALL CEILING FRAMING/PANELS, PREPARE TO RECEIVE PRIMER AND PAINT.

-REFER TO MECHANICAL DRAWINGS FOR RELOCATION OF EXISTING DUCTWORK, DIFFUSERS AND PIPES ABOVE THE CEILING. REFER TO MECHANICAL DRAWINGS FOR LOCATION OF

SMOKE DETECTORS. -CONTRACTOR TO VERIFY AND COORDINATE LOCATION, HEIGHT AND ORIENTATION OF CEILINGS.

MEASUREMENTS TO BE CONFIRMED ON SITE

VERIFY/CONFIRM LOCATION/DIMENSIONS REFER TO THE EXISTING COMPONENTS AND EQUIPMENTS

OMISSIONS TO THE ARCHITECT BEFORE PROCEEDING T IS THE RESPONSIBILITY OF THE CONTRACTOR TO ENSURE THAT

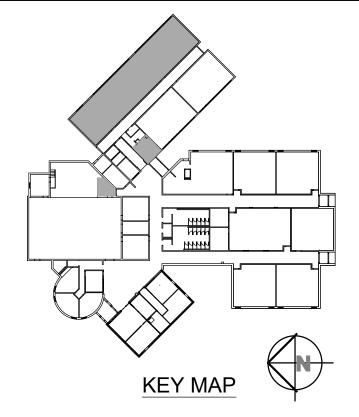
- INSTALL NEW HALF WALL (854±WIDEX1200MMHIGH) LEGEND

EXISTING WALLS TO REMOVE

EXISTING WALLS TO REMAIN

NEW WALLS





ISSUED FOR RE-TENDER JAN11, 2021 ISSUED FOR PERMIT/TENDER FEB25, 2020 SWING, PATCH, PAINT AND FINISH AS PER SCHEDULE SCOPE REDUCTION-CLIENT REVIEW APR26, 2019 SUBMITTED FOR TENDER & PERMIT JULY 5, 2018 ISSUED FOR 99% DESIGN JUNE 22, 2018 ISSUED FOR 66% DESIGN JUNE 08, 2018



SSUED FOR 33% DESIGN



MAY 22, 2018

-REFER TO LINTEL SCHEDULE FOR SIZE OF CHANNEL. | EEC- STE. CROIX DAYCARE INTERIOR RENOVATIONS

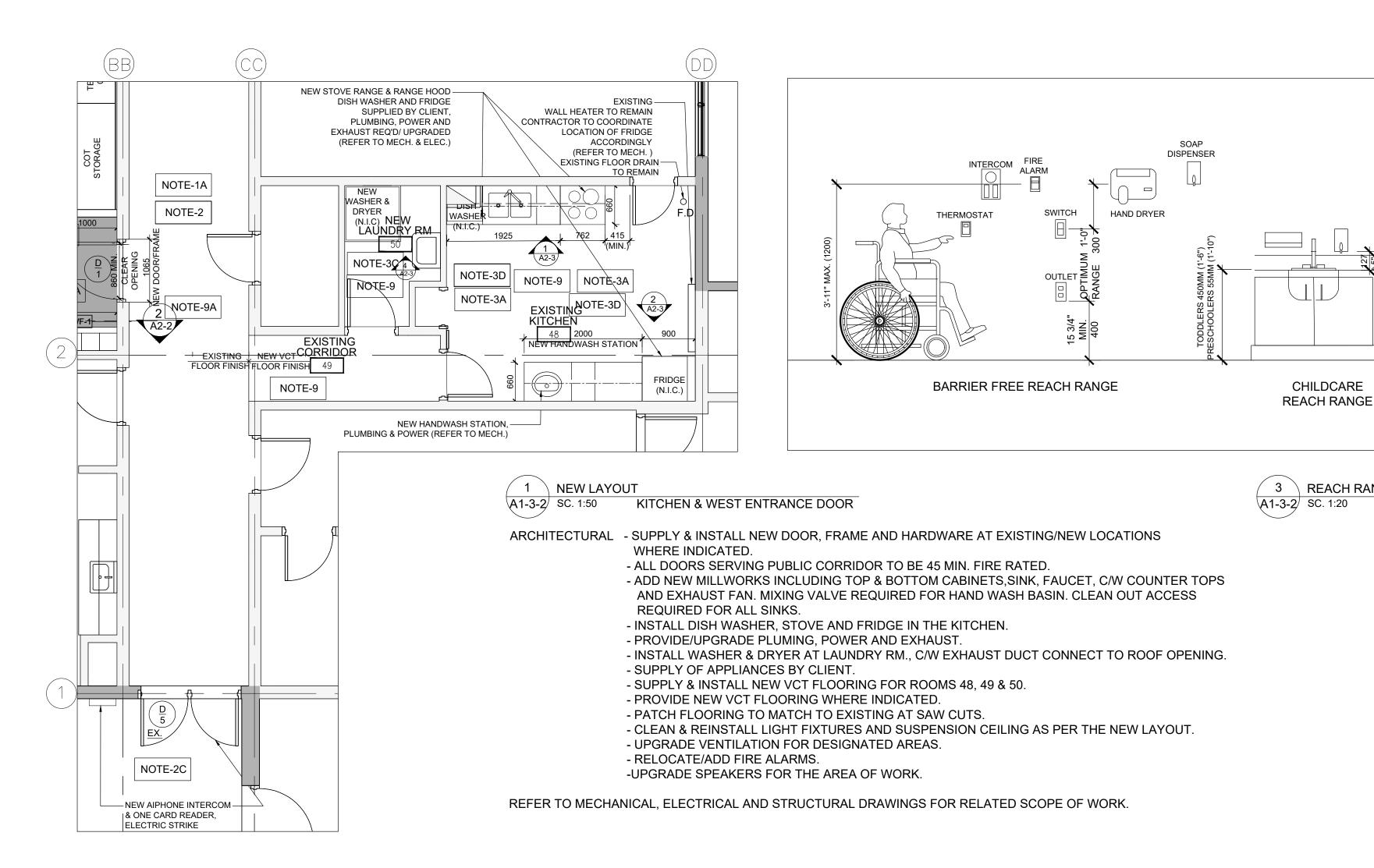
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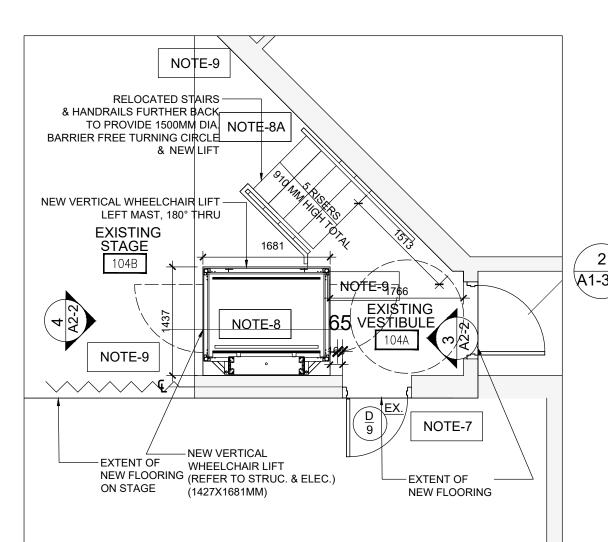


CONSEIL SCOLAIRE CATHOLIQUE MONAVENIR 110 DREWRY AVENUE TORONTO, ON

SELECTIVE NEW LAYOUTS ROOMS 120 & 121

AS NOTED MAY 2018





2 NEW LAYOUT STAGE & WHEELCHAIR LIFT A1-3-2/ SC. 1:50

ARCHITECTURAL - SUPPLY & INSTALL NEW DOOR HARDWARE AT EXISTING/ NEW LOCATION WHERE INDICATED. - REINSTALL EXISTING DOOR/HARDWARE WITH DIFFERENT SWING AS SHOWN,

-INSTALL RELOCATED STAIR AND HANDRAILS AS SHOWN. - ALL DOORS SERVING PUBLIC CORRIDOR TO BE 45 MIN. FIRE RATED. - SUPPLY & INSTALL NEW WHEEL CHAIR LIFT WHERE INDICATED.

- SUPPLY AND INSTALL NEW VCT ON THE STAGE AND VESTIBULE(104A & 104B) - REINSTALL AND RECONNECT ELECTRICAL ITEMS AND SENSORS RELOCATED FROM

WEST WALL OF THE STAGE WHERE SHOWN ON MECHANICAL AND ELECTRICAL DRAWINGS.

- UPGRADE SPEAKERS FOR THE AREA OF WORK.

ADD DOOR CLOSER AS REQUIRED.

REFER TO MECHANICAL, ELECTRICAL AND STRUCTURAL DRAWINGS FOR RELATED SCOPE OF WORK.

PARTITION TYPES

CHILDCARE

A. ALL NEW PARTITIONS TO U/S/ OF SLAB, UNLESS OTHERWISE NOTED. B. REFER TO ROOM SCHEDULE FOR FINISHES.

C. ALL ELECTRICAL/MECHANICAL DEVICES TO BE MOVED TO FACE OF NEW PARTITION.

W-1 INTERIOR NON-LOAD BEARING WALL 1 HOUR F.R.R. ULC #W407 -15.9MM TYPE X GYPSUM WALL BOARD

-89MM ACOUSTIC BATT INSULATION -31MM X 92MM STEEL STUD @400mm O.C. -15.9MM TYPE X GYPSUM WALL BOARD -FLOOR TO U/S OF STRUCTURE -FINISH AS PER FINISH SCHEDULE, PERIMETER CAULKED

W-2 INTERIOR NON-LOAD BEARING WALL -15.9MM GYPSUM WALL BOARD

-31MM X 92MM STEEL STUD @400mm O.C. -89MM ACOUSTIC BATT INSULATION -15.9MM GYPSUM WALL BOARD -FLOOR TO U/S OF STRUCTURE -FINISH AS PER FINISH SCHEDULE -PERIMETER CAULKED

W-F1 INTERIOR FURRING TO UNDERNEATH OF THE EXISTING CEILING -22MM METAL FURRING CHANEL @610mm O.C. -12.7MM GYPSUM WALL BOARD -FINISH AS PER FINISH SCHEDULE

W-3 INTERIOR NON-LOAD BEARING WALL -CERAMIC TILE UP TO 1000MM ABOVE FINISHED FLOOR (INSIDE WASHROOM) -16MM CEMENT BACKER BOARD (C.B.U) FLOOR TO U/S OF STRUCTURE -16MM PLYWOOD BLOCKING AS REQ'D FOR MILLWORK AND WASHROOM ACCESSORIES INSTALLATION -WATER PROOFING MEMBRANE -152MM METAL STUDS AT 400MM O.C -140MM AIR/PLUMBING SPACE -89MM ACOUSTIC BATT INSULATION -92mmMM METAL STUDS AT 400MM O.C -15.9MM GYPSUM WALL BOARD TO U/S OF STRUCTURE -FINISH AS PER FINISH SCHEDULE

W-3A INTERIOR NON-LOAD BEARING WALL -CERAMIC TILE UP TO 1000MM ABOVE FINISHED FLOOR

(INSIDE WASHROOM) -16MM CEMENT BACKER BOARD (C.B.U) FLOOR TO U/S OF STRUCTURE -16MM PLYWOOD BLOCKING AS REQ'D FOR MILLWORK AND WASHROOM ACCESSORIES INSTALLATION -WATER PROOFING MEMBRANE -152MM METAL STUDS AT 400MM O.C -150MM ACOUSTIC BATT INSULATION -140MM AIR/PLUMBING SPACE -EXISTING WALL -FINISH AS PER FINISH SCHEDULE

-PERIMETER CAULKED

-PERIMETER CAULKED W-4 INTERIOR NON-LOAD BEARING WALL -CERAMIC TILE UP TO 1000MM ABOVE FINISHED FLOOR (INSIDE WASHROOM) -16MM CEMENT BACKER BOARD (C.B.U) FLOOR TO U/S OF STRUCTURE -16MM PLYWOOD BLOCKING AS REQ'D FOR MILLWORK AND WASHROOM ACCESSORIES INSTALLATION -WATER PROOFING MEMBRANE -31MM X 64 MM STEEL STUD @400MM O.C. -500 AIR SPACE FOR POCKET DOOR -31MM X 64 MM STEEL STUD @400MM O.C. -15.9MM GYPSUM WALL BOARD -FLOOR TO U/S OF STRUCTURE -FINISH AS PER FINISH SCHEDULE

-PERIMETER CAULKED W-5 INTERIOR NON-LOAD BEARING WALL-INFILL 1 HOUR F.R.R. OBC#B2C -12.7MM GYPSUM WALL BOARD (ON CORRIDOR SIDE) -140MM CONCRETE MASONRY UNIT -FLOOR TO U/S OF STRUCTURE

-FINISH AS PER FINISH SCHEDULE, PERIMETER CAULKED -ENSURE MORTAR IS PACKED COMPLETELY AND FIRE SEPARATION IS CONTINUOUS -THICKNESS TO MATCH TO EXISTING

CONSTRUCTION NOTES

NOTE-1 -PATCH +M.G. WALL/CEILING/FLOOR SURFACES -PROVIDE STAMPED SHOP DRAWINGS FOR NEW STEEL STUD FRAMING -TO INFILL THE OPENINGS AT LOCATIONS WITH CMU

ALLOW FOR TOOTING-IN OF NEW BLOCK -FINISH EDGES OF EXPOSED WALLS TO MATCH TO NOTE-1A EXISTING, WHERE APPLICABLE AT BLOCK WALL → W/BULLNOSE END BLOCKS. C/W MATCHING. MATERIAL, ALLOW FOR TOOTING-IN OF NEW BLOCKS, -REPORT ANY DISCREPANCIES, DISCOVERED ERRORS OR -PATCH +M.G. WALL/CEILING/FLOOR SURFACES, WHERE WALLS REMOVED AT NEW OPENINGS.

7-FINISH EDGES OF OPENING SURROUND WITH PLAM
ON MOISTURE RESISTANT MDE PATCH +M.C.

THE DRAWINGS WITH THE LATEST PROVISIONS ARE USED FOR CONSTRUCTION NOTE-1B ON MOISTURE RESISTANT MDF, PATCH +M.G. WALL/CEILING/FLOOR SURFACES.

- INSTALL NEW HALF WALL (854±WIDEX1200MMHIGH) LEGEND NOTE-1C 12.7MM DRYWALL ON BOTH SIDES OF 31MM X 64 MM STEEL STUD FRAMING @400MMO.C, C/W MELAMINE FINISH ON 19MM HDF CORE TO MATCH TO ADJACENT SWING GATE/POST - SUPPLY & INSTALL NEW DOOR/FRAME/HARDWARE NOTE-2 | AS PER SCHEDULE.

I-INSTALL JAMBS + HEAD (LINTELS TO COMPLY TO LINTEL SCHEDULE), REFER TO STRUC. DWGS. -DOOR TO BE EQUIPPED WITH DOOR CLOSER AS PER DOOR SCHEDULE -FOR DOOR AND DOOR FRAMES COLOUR CONTRAST REQ'D, REFER TO FINISH SCHEDULE - INSTALL NEW DOOR/FRAME/HARDWARE WHERE

NOTE-2A INDICATED. I-INSTALL JAMBS + HEAD (W/2X4 FRAMING @16"O.C. AND GYPSUM BOARD -DOOR TO BE EQUIPPED WITH DOOR CLOSER -FOR DOOR AND DOOR FRAMES COLOUR CONTRAST

REQ'D, REFER TO FINISH SCHEDULE - INSTALL NEW ONE CARD READER, DOOR CLOSER & NOTE-2B | ELECTRIC STRIKE FOR THE EXISTING DOOR

- INSTALL NEW AIPHONE AND ONE CARD READER NOTE-2C FOR THE EXISTING DOOR. AIPHONE TO CONNECT TO THE MAIN OFFICE. - SUPPLY AND INSTALL NEW MILLWORKS INCLUDING NOTE-3 CABINETS, HIGH & LOW SINKS, CHANGING TABLES.

COT STORAGE AND TEACHER'S CLOSET WHERE INDICATED.(REFER TO MILLWORK DRAWINGS) -PROVIDE NEW OUTLETS. (REFER TO ELECTRICAL) - SUPPLY & INSTALL SINKS & FAUCETS, CONNECT TO

NOTE-3A EXISTING PLUMBING. (REFER TO MECHANICAL) PROVIDE NEW OUTLETS. (REFER TO ELECTRICAL) NOTE-3B -SUPPLY AND INSTALL CUBBIES AND BENCH. (REFER TO MILLWORK DWG.S)

I-INSTALL WASHER & DRYER, CONNECT TO EXISTING NOTE-3C PLUMBING (REFER TO MECHANICAL) PROVIDE POWER (REFER TO ELECTRICAL) -PROVIDE EXHAUST DUCT TO EXTERIOR (REFER TO MECHANICAL)

NOTE-3D CABINETS & SHELVES & COUNTERTOP C/W BACK SPLASH. (REFER TO MILLWORK DRAWINGS) -PROVIDE NEW OUTLETS. (REFER TO ELECTRICAL) -SUPPLY & INSTALL NEW TOILET FIXTURE, NOTE-4 INSTALL WASHROOM ACCESSORIES (TO BE

SUPPLIED BY OWNER.) - CONNECT TO EXISTING PLUMBING (REFER TO MECHANICAL). |-PROVIDE CONDUIT FOR ELECTRICAL AND DATA NOTE-5 | BEHIND THE NEW BACK PANEL, C/W NEW OUTLET $^{
m J}$ PASS THRU GROMMET FOR NEW OFFICE. (REFER TO ELECTRICAL). - INSTALL PA, THERMOSTAT & FIRE ALARM.

NOTE-6 (REFER TO ELECTRICAL) NOTE-7 - REINSTALL THE EXISTING DOOR W /OPPOSITE

- INSTALL NEW WHEELCHAIR LIFT AS PER MANUAL NOTE-8 AND STRUCTURAL DRAWINGS. - REINSTALL EXISTING STAIRS AND RAILING WHERE

NOTE-8A INDICATED. ADJUST RAILING TO SUIT NEW LAYOUT. -PATCH AND MAKE GOOD FLOOR WHERE EXISTING NOTE-9 | SLAB FOR NEW DRAIN, LIFT AND OTHER AREAS HAS | ISSUED FOR CLIENT REVIEW | MAY 14, 2018 BEEN CUT OR REMOVED. - MAKE IT LEVEL AND READY FOR NEW FLOORING. -SUPPLY & INSTALL NEW VCT TILES ON FLOOR.

NOTE-9A CUTS. -PATCH FLOORING TO MATCH TO EXISTING AT SAW -PATCH AND MAKE GOOD GOUGES, HOLES AND

MARKS ON EXISTING WALLS TO REMAIN. -ENSURE CONTINUITY OF ALL FIRE SEPARATIONS. FIRE STOP ALL JOINTS AND PENETRATIONS THROUGH FIRE SEPARATIONS. -WHERE THERE IS DIFFERENCE IN CEILING HEIGHTS.

COVER VERTICALS EDGES OF THE RECESSED CEILING WITH DRYWALL CEILING FRAMING/PANELS, PREPARE TO RECEIVE PRIMER AND PAINT. -REFER TO MECHANICAL DRAWINGS FOR RELOCATION OF EXISTING DUCTWORK, DIFFUSERS AND PIPES ABOVE THE CEILING.

-REFER TO MECHANICAL DRAWINGS FOR LOCATION OF SMOKE DETECTORS. -CONTRACTOR TO VERIFY AND COORDINATE LOCATION, HEIGHT AND ORIENTATION OF CEILINGS.

MEASUREMENTS TO BE CONFIRMED ON SITE

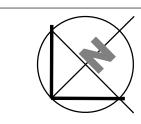
VERIFY/CONFIRM LOCATION/DIMENSIONS REFER TO THE EXISTING COMPONENTS AND EQUIPMENTS

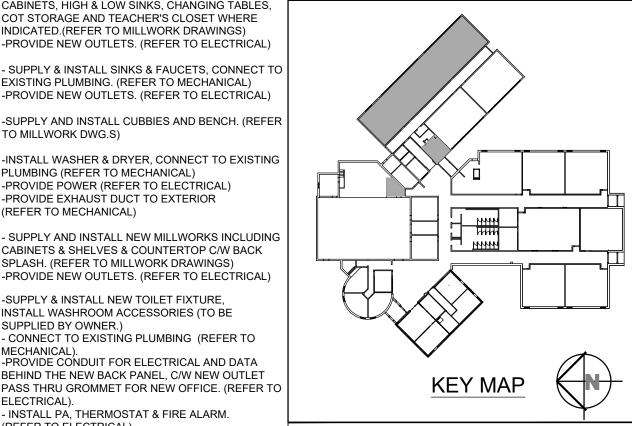
OMISSIONS TO THE ARCHITECT BEFORE PROCEEDING T IS THE RESPONSIBILITY OF THE CONTRACTOR TO ENSURE THAT

EXISTING WALLS TO REMOVE

EXISTING WALLS TO REMAIN

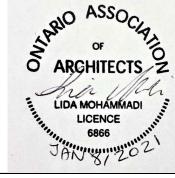
NEW WALLS





ISSUED FOR RE-TENDER JAN11, 2021 ISSUED FOR PERMIT/TENDER FEB25, 2020 SWING, PATCH, PAINT AND FINISH AS PER SCHEDULE SCOPE REDUCTION-CLIENT REVIEW APR26, 2019 SUBMITTED FOR TENDER & PERMIT JULY 5, 2018 ISSUED FOR 99% DESIGN JUNE 22, 2018 ISSUED FOR 66% DESIGN JUNE 08, 2018

> SSUED FOR 33% DESIGN MAY 22, 2018





-REFER TO LINTEL SCHEDULE FOR SIZE OF CHANNEL. EEC- STE. CROIX DAYCARE INTERIOR RENOVATIONS

TINY, ON

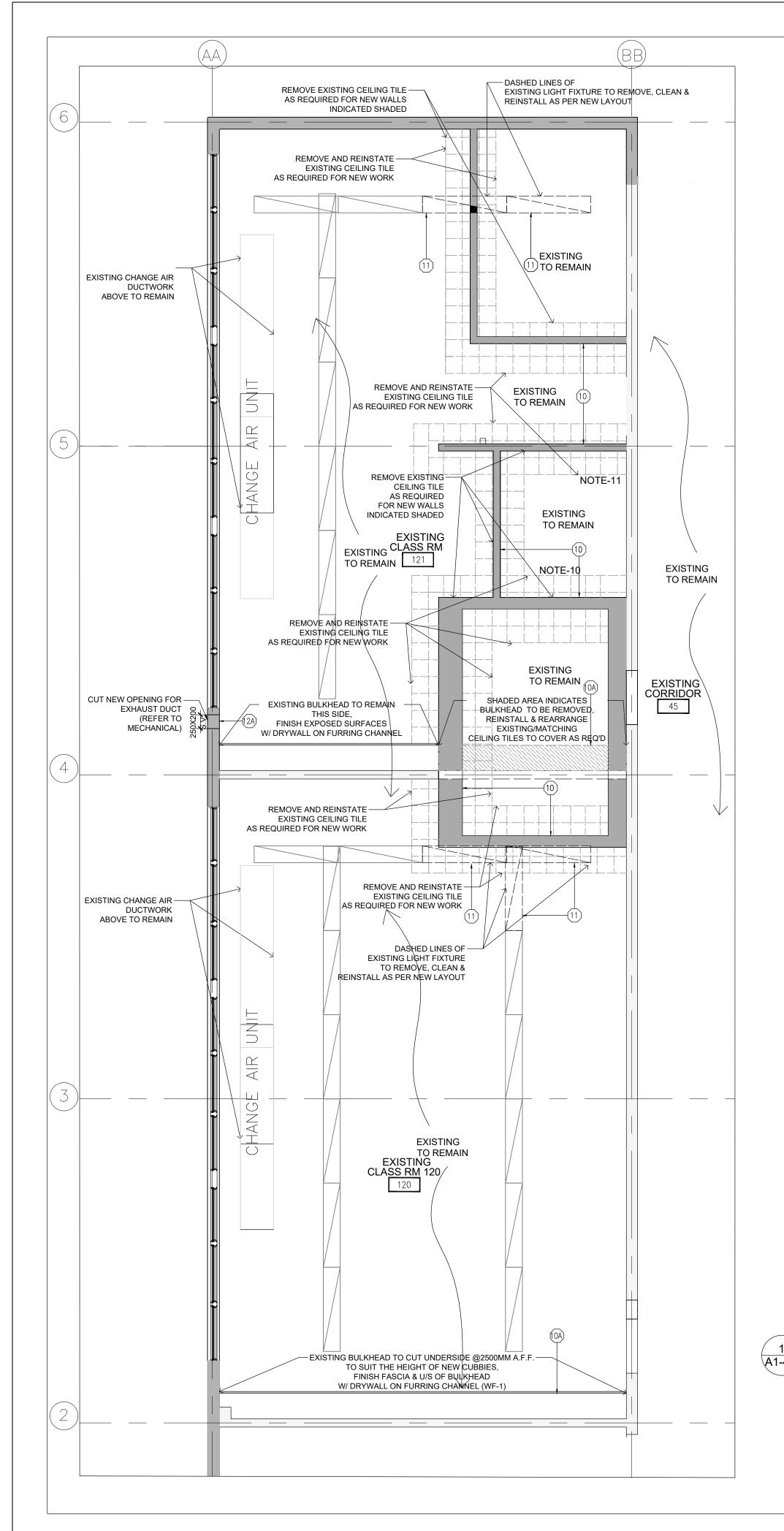


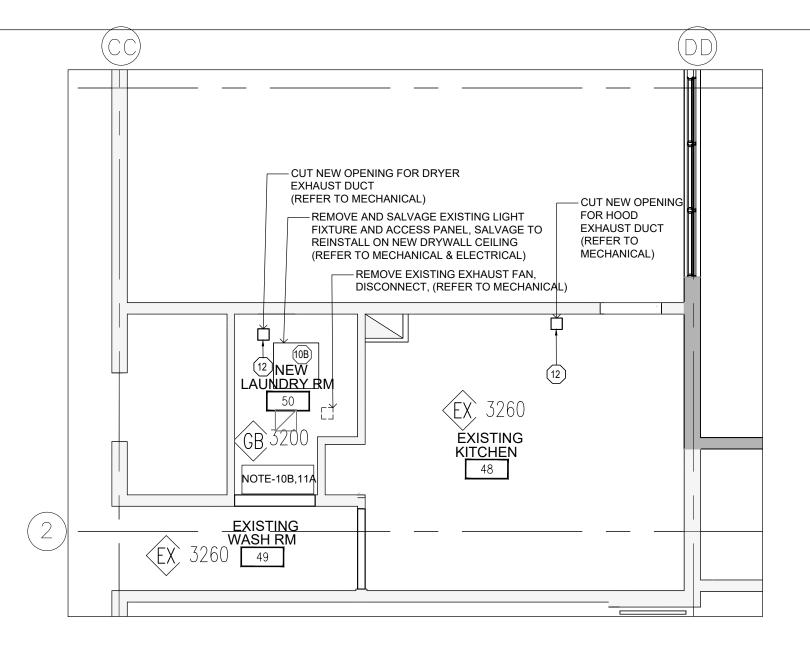
CONSEIL SCOLAIRE CATHOLIQUE MONAVENIR 110 DREWRY AVENUE

SELECTIVE NEW LAYOUTS KITCHEN & STAGE

TORONTO, ON

AS NOTED MAY 2018





RCP- DEMOLITION LAYOUT KITCHEN & LAUNDRY RM

ARCHITECTURAL: - CUT NEW OPENINGS ON THE CEILING OF KITCHEN TO THE ROOF

FOR NEW HOOD EXHAUST DUCT.

- CUT NEW OPENINGS ON THE CEILING OF LAUNDRY ROOM FOR INSTALLATION OF NEW EXHAUST HOOD, CONNECT TO EXISTING OPENING

ON THE ROOF.

- REMOVE EXISTING EXHAUST FAN, DISCONNECT, FINISH CEILING.

- MODIFY EXISTING OPENING ON THE ROOF FOR INSTALLATION & CONNECTION OF NEW DRYER EXHAUST DUCT.

REFER TO MECHANICAL DRAWINGS FOR RELATED SCOPE OF WORK.

DEMOLITION NOTES

- (0B) -REMOVE, SALVAGE AND REINSTATE EXISTING CEILING LIGHT FIXTURE & ACCESS PANEL, LOCATION ADJUST TO SUIT NEW LAYOUT. (REFER TO RCP).
- FIXTURES WHERE INDICATED.
- CONNECT TO THE OPENINGS ON ROOF
- (2A) -CUT NEW OPENING ON EXTERIOR WALL FOR NEW EXHAUST DUCT, (REFER TO MECHANICAL)
- NOTE WHERE REQUIRED: -PROVIDE SUPPORT/SHORING BEFORE REMOVAL OF EXISTING WALL. -REMOVE AND DISPOSE OF ALL DOORS, PARTITIONS AND ACCESSORIES WHERE INDICATED. -CAP ALL EXISTING ELECTRICAL SERVICES AS REQ'D.(REFER TO ELECTRICAL). -CAP DRAINS/DISCONNECT PLUMBING WHERE INDICATED.(REFER TO MECHANICAL). -REFER TO MECHANICAL & ELECTRICAL DRAWINGS FOR REMOVAL OF MECH/ELEC. ITEMS. -REMOVAL AND RELOCATION OF EXISTING CABINETS, BENCHES, TABLES AND FURNITURE TO CO-ORDINATE WITH THE OWNER.

GENERAL NOTES

MECHANICAL & ELECTRICAL FIXTURES ARE SHOWN FOR REFERENCE ONLY. REFER TO ELECTRICAL & MECHANICAL DRAWINGS.

PATTERN OF ACT CEILINGS TO BE CENTERED IN THE ROOM UNLESS NOTED OTHERWISE

FOR LIGHTING IN SERVICE ROOMS SEE ELECTRICAL DRAWINGS

AT ALL EXPOSED MECHANICAL DUCT PENETRATIONS THROUGH SUSPENDED GYPSUM BOARD CEILINGS PROVIDE ANOD. ALUM. COLLAR REVEALS. REFER TO MECHANICAL DRAWINGS FOR DIAMETER AND LOCATION.

IN AREAS WITH PARTIAL AND/OR FLOATING CEILINGS ENTIRE ARCHITECTURAL CONC. SLAB ABOVE TO BE SEALED WITH WALL GLAZE AS PER ROOM FINISH SCHEDULE.

- -REMOVE, SALVAGE AND REINSTALL EXISTING LIGHT (REFER TO RCP & ELECTRICAL).
- (12) -CUT NEW OPENING ON CEILING FOR EXHAUST DUCT, (REFER TO MECHANICAL)

LEGEND EXISTING WALLS TO REMOVE

EXISTING WALLS TO REMAIN

CEILING LEGEND

ACT ACOUSTIC CEILING TILE

GB GYPSUM BOARD

VERIFY ALL DIMENSIONS

COMPONENTS AND EQUIPMENTS

-DO NOT SCALE DRAWINGS

MEASUREMENTS TO BE CONFIRMED ON SITE

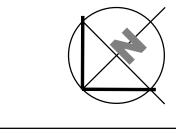
VERIFY/CONFIRM LOCATION/DIMENSIONS REFER TO THE EXISTING

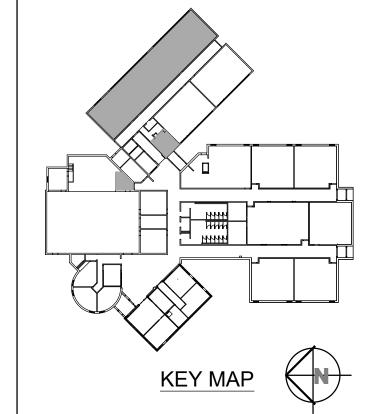
-REPORT ANY DISCREPANCIES, DISCOVERED ERRORS OR

-IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO ENSURE THAT THE DRAWINGS WITH THE LATEST PROVISIONS ARE USED FOR CONSTRUCTION

OMISSIONS TO THE ARCHITECT BEFORE PROCEEDING

(EX) EXISTING

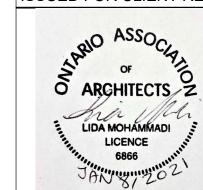




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SCOPE REDUC.+LIFT,CLIENT REVIEW OCT25, 2019 SUBMITTED FOR TENDER & PERMIT JULY 5, 2018 ISSUED FOR 99% DESIGN JUNE 22, 2018 JUNE 08, 2018 ISSUED FOR 66% DESIGN

ISSUED FOR 33% DESIGN MAY 22, 2018 ISSUED FOR CLIENT REVIEW MAY 14, 2018





EEC- STE. CROIX DAYCARE INTERIOR RENOVATIONS

TINY, ON



CONSEIL SCOLAIRE CATHOLIQUE MONAVENIR 110 DREWRY AVENUE TORONTO, ON

SELECTIVE RCP DEMOLITION LAYOUTS ROOMS 120, 121, KITCHEN & WASHRM



AS NOTED JUNE 2018

2018-11B

1 RCP-DEMOLITION LAYOUT

ROOMS 120 & 121

ARCHITECTURAL: - REMOVE AND REINSTATE EXISTING CEILING TILES AT PERIMETER OF

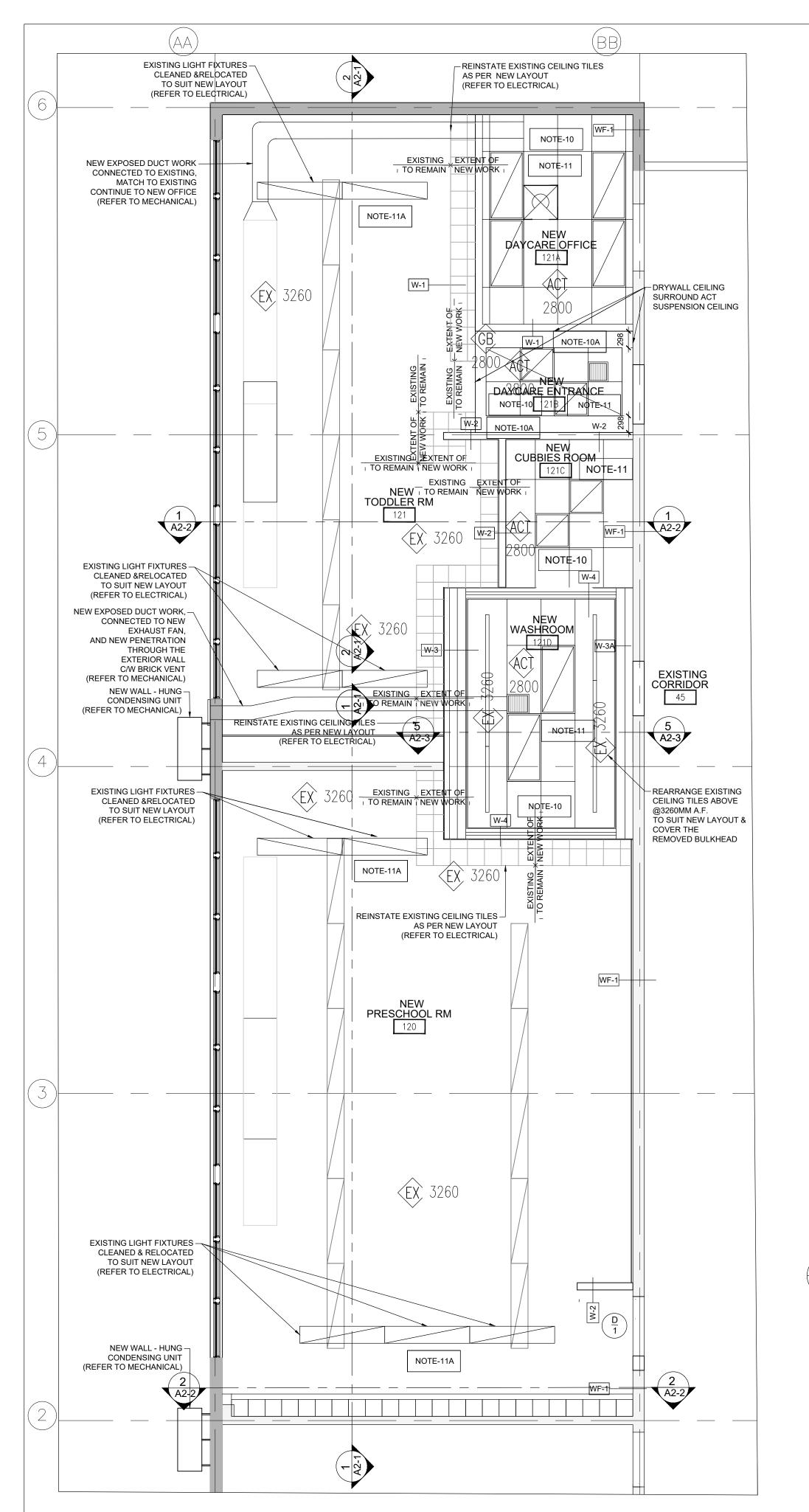
NEW WALLS AS REQUIRED FOR CONSTRUCTION OF NEW WALL TO STRUCTURE.

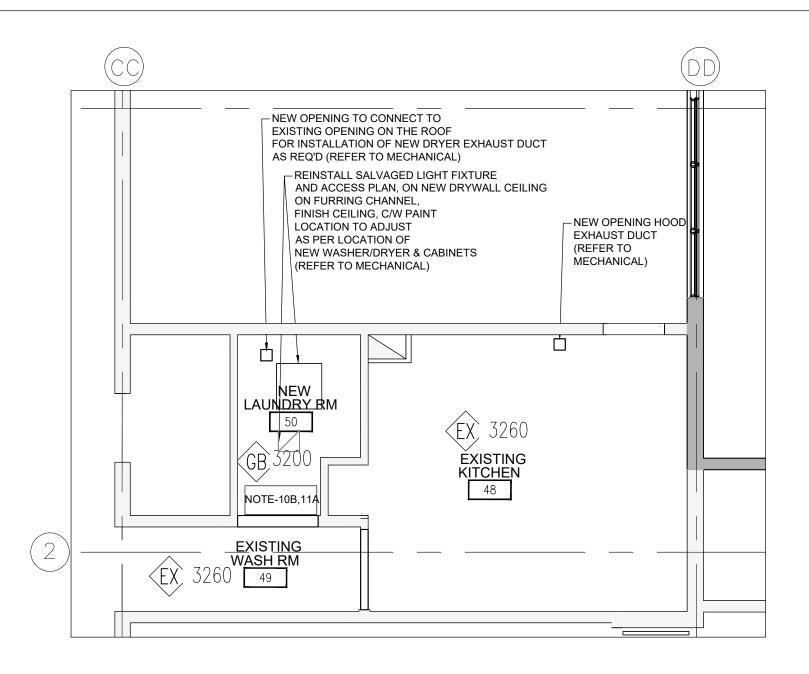
- REMOVE CEILING TILES & BULKHEAD AT LOCATION OF NEW WALLS AS REQ'D.

- CUT UNDERSIDE OF BULKHEAD WHERE NEW CUBBIES WILL BE LOCATED.

-CUT OPENING ON EXTERIOR WALL FOR EXHAUST DUCT. - REMOVE, SALVAGE, CLEAN AND RELOCATE EXISTING LIGHT FIXTURE.

REFER TO MECHANICAL AND ELECTRICAL DRAWINGS FOR RELATED SCOPE OF WORK.





RCP- NEW LAYOUT KITCHEN & LAUNDRY RM

ARCHITECTURAL: - PROVIDE NEW OPENINGS ON THE CEILING OF KITCHEN TO THE ROOF

FOR NEW HOOD EXHAUST DUCT.

- PROVIDE NEW OPENINGS ON THE CEILING OF LAUNDRY ROOM FOR INSTALLATION OF NEW EXHAUST DUCT FOR DRYER, CONNECT TO EXISTING OPENING

ON THE ROOF. EXISTING ROOF CURB TO MODIFY FOR NEW EXHAUST DUCT. - FINISH CEILING WHERE EXHAUST FAN, REMOVED.

- MODIFY EXISTING OPENING ON THE ROOF FOR INSTALLATION &

CONNECTION OF NEW DRYER EXHAUST DUCT. - ADD NEW DRYWALL CEILING ON FURRING CHANNEL ON THE EXISTING

CEILING OF LAUNDRY ROOM.

REFER TO MECHANICAL DRAWINGS FOR RELATED SCOPE OF WORK.

CONSTRUCTION NOTES

-SUPPLY AND INSTALL SUSPENSION CEILING NOTE-10 (ACOUSTIC CEILING TILE) AS PER RCP.

-CONSTRUCT NEW DRYWALL CEILING ON BULKHEAD AROUND ACT CEILING IN NEW VESTIBULE TO DAYCARE.

NOTE-10B -CONSTRUCT NEW DRYWALL CEILING ON FURRING CHANNELS.

NOTE-11 (REFER TO RCP & ELECTRICAL)

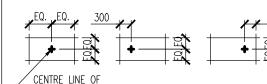
-PATCH AND MAKE GOOD GOUGES, HOLES AND NOTE MARKS ON EXISTING WALLS TO REMAIN. -ENSURE CONTINUITY OF ALL FIRE SEPARATIONS. FIRE STOP ALL JOINTS AND PENETRATIONS THROUGH FIRE

> -WHERE THERE IS DIFFERENCE IN CEILING HEIGHTS, COVER VERTICALS EDGES OF THE RECESSED CEILING TO RECEIVE PRIMER AND PAINT.

-REFER TO MECHANICAL DRAWINGS FOR RELOCATION OF EXISTING DUCTWORK, DIFFUSERS AND PIPES ABOVE THE CEILING. -REFER TO MECHANICAL DRAWINGS FOR LOCATION OF SMOKE DETECTORS.

LOCATION, HEIGHT AND ORIENTATION OF CEILINGS.

CEILING FIXTURES ARRANGEMENT ACT CEILINGS AS PER THE DIAGRAMS BELOW UNLESS OTHERWISE



GENERAL NOTES

DIRECTIONS TYP.

-SUPPLY AND INSTALL NEW LIGHT FIXTURES.

── -SUPPLY AND INSTALL NEW DIFFUSERS. (REFER TO RCP & MECHANICAL)

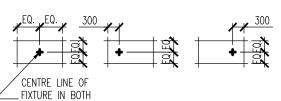
REINSTALL EXISTING LIGHT FIXTURES C/W NEW LED NOTE-11A BULBS. -REINSTALL SPEAKERS AND EMERGENCY LIGHTING.
(REFER TO RCP & ELECTRICAL
-REINSTALL ACCESS PANEL WHERE INDICATED.

SEPARATIONS.

WITH DRYWALL CEILING FRAMING/PANELS, PREPARE -REFER TO LINTEL SCHEDULE FOR SIZE OF CHANNEL.

-CONTRACTOR TO VERIFY AND COORDINATE

THE ELECTRICAL AND MECHANICAL FIXTURES SHOULD BE LOCATED IN



MECHANICAL & ELECTRICAL FIXTURES ARE SHOWN FOR REFERENCE ONLY. REFER TO ELECTRICAL & MECHANICAL DRAWINGS.

PATTERN OF ACT CEILINGS TO BE CENTERED IN THE ROOM UNLESS NOTED OTHERWISE

FOR LIGHTING IN SERVICE ROOMS SEE ELECTRICAL DRAWINGS

AT ALL EXPOSED MECHANICAL DUCT PENETRATIONS THROUGH SUSPENDED GYPSUM BOARD CEILINGS PROVIDE ANOD. ALUM. COLLAR REVEALS. REFER TO MECHANICAL DRAWINGS FOR DIAMETER

IN AREAS WITH PARTIAL AND/OR FLOATING CEILINGS ENTIRE GLAZE AS PER ROOM FINISH SCHEDULE.



VERIFY ALL DIMENSIONS

MEASUREMENTS TO BE CONFIRMED ON SITE VERIFY/CONFIRM LOCATION/DIMENSIONS REFER TO THE EXISTING

COMPONENTS AND EQUIPMENTS DO NOT SCALE DRAWINGS

-REPORT ANY DISCREPANCIES, DISCOVERED ERRORS OR OMISSIONS TO THE ARCHITECT BEFORE PROCEEDING

-IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO ENSURE THAT THE DRAWINGS WITH THE LATEST PROVISIONS ARE USED FOR CONSTRUCTION

LEGEND

EXISTING WALLS TO REMOVE

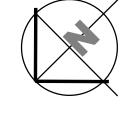
EXISTING WALLS TO REMAIN

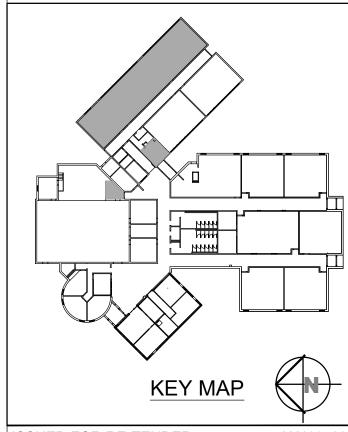
CEILING LEGEND

(ACT) ACOUSTIC CEILING TILE

GB GYPSUM BOARD

(EX) EXISTING

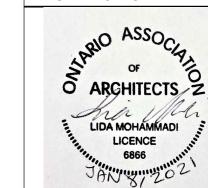




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ISSUED FOR 33% DESIGN MAY 22, 2018 ISSUED FOR CLIENT REVIEW MAY 14, 2018





EEC- STE. CROIX DAYCARE INTERIOR RENOVATIONS

TINY, ON



CONSEIL SCOLAIRE CATHOLIQUE MONAVENIR 110 DREWRY AVENUE TORONTO, ON

SELECTIVE RCP

NEW LAYOUTS ROOMS 120, 121, KITCHEN & LAUNDRY

AS NOTED JUNE 2018

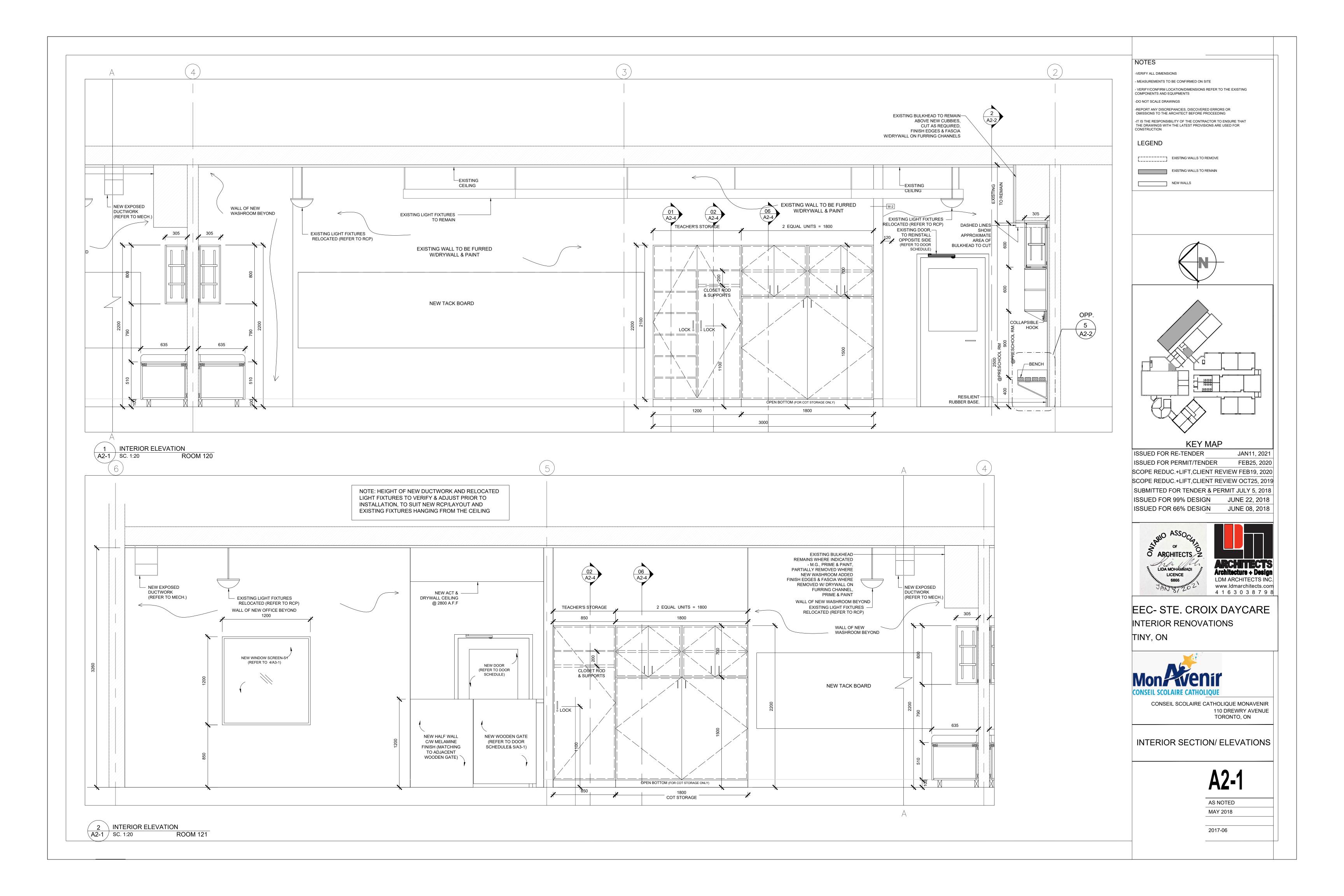
2018-11B

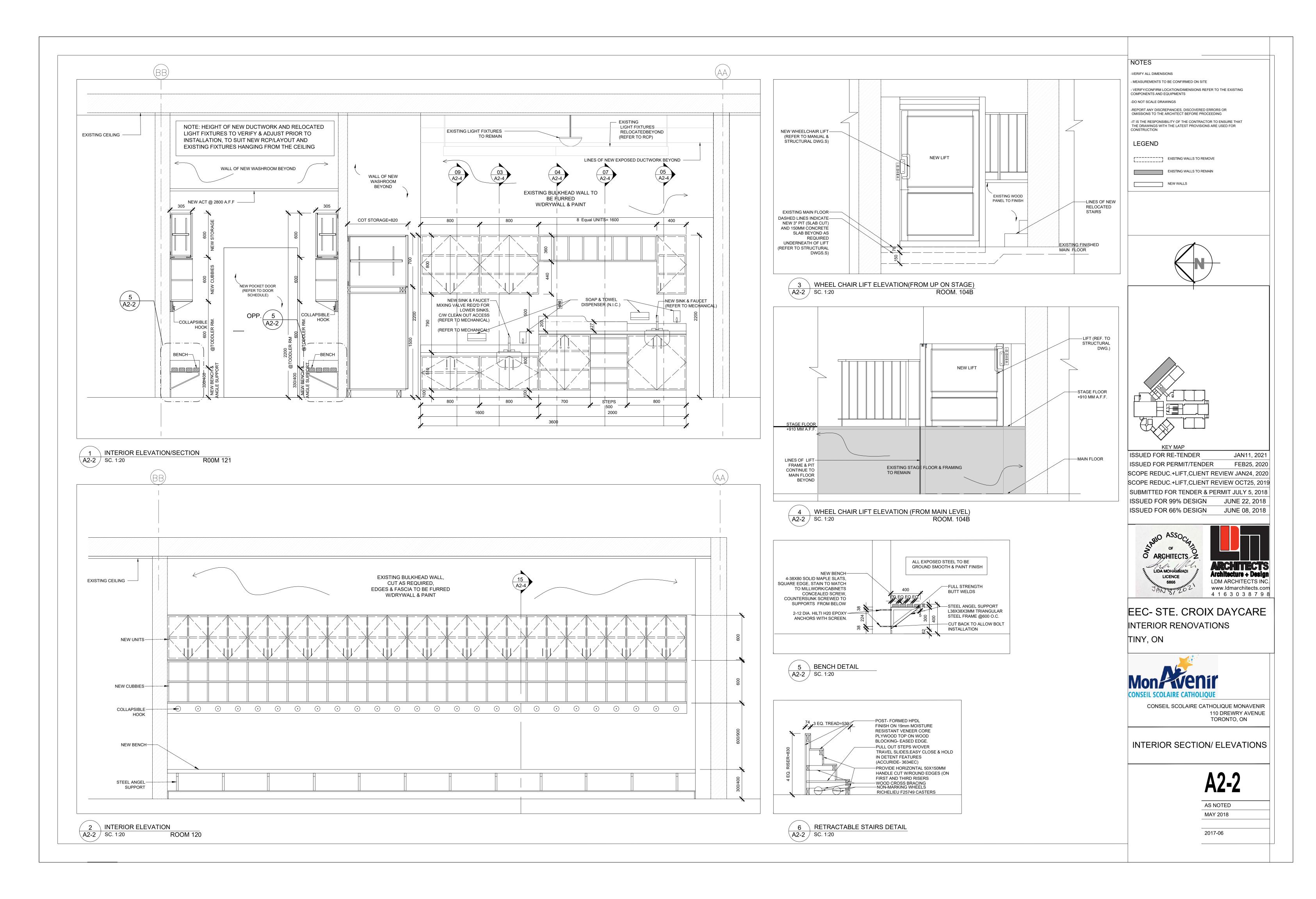
RCP- NEW LAYOUT NEW DAY CARE 120 & 121

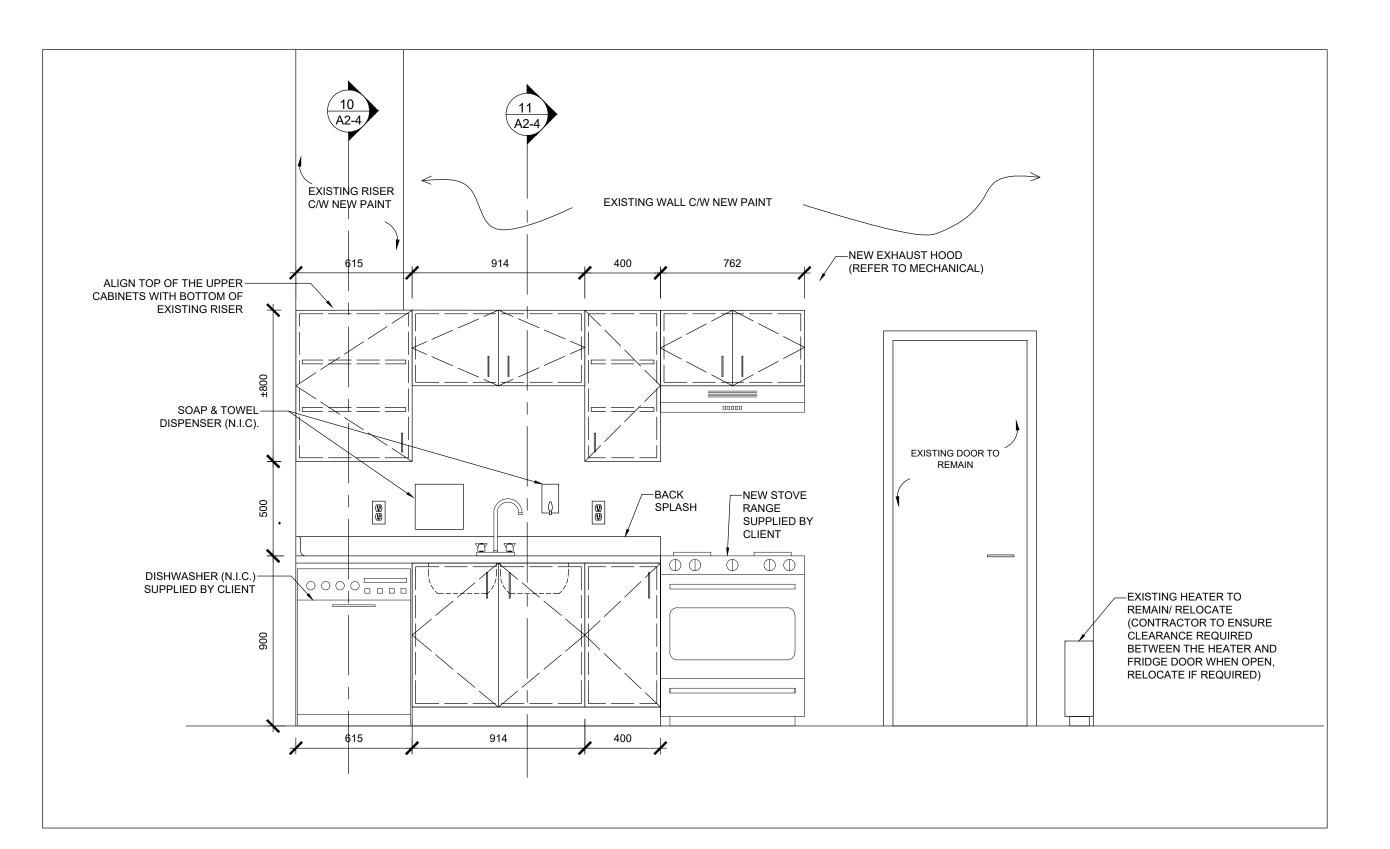
ARCHITECTURAL: - REINSTALL EXISTING CEILING TILES, REARRANGE TO SUIT NEW LAYOUT, ADD NEW, MATCHING CEILING TILES AS REQ'D.

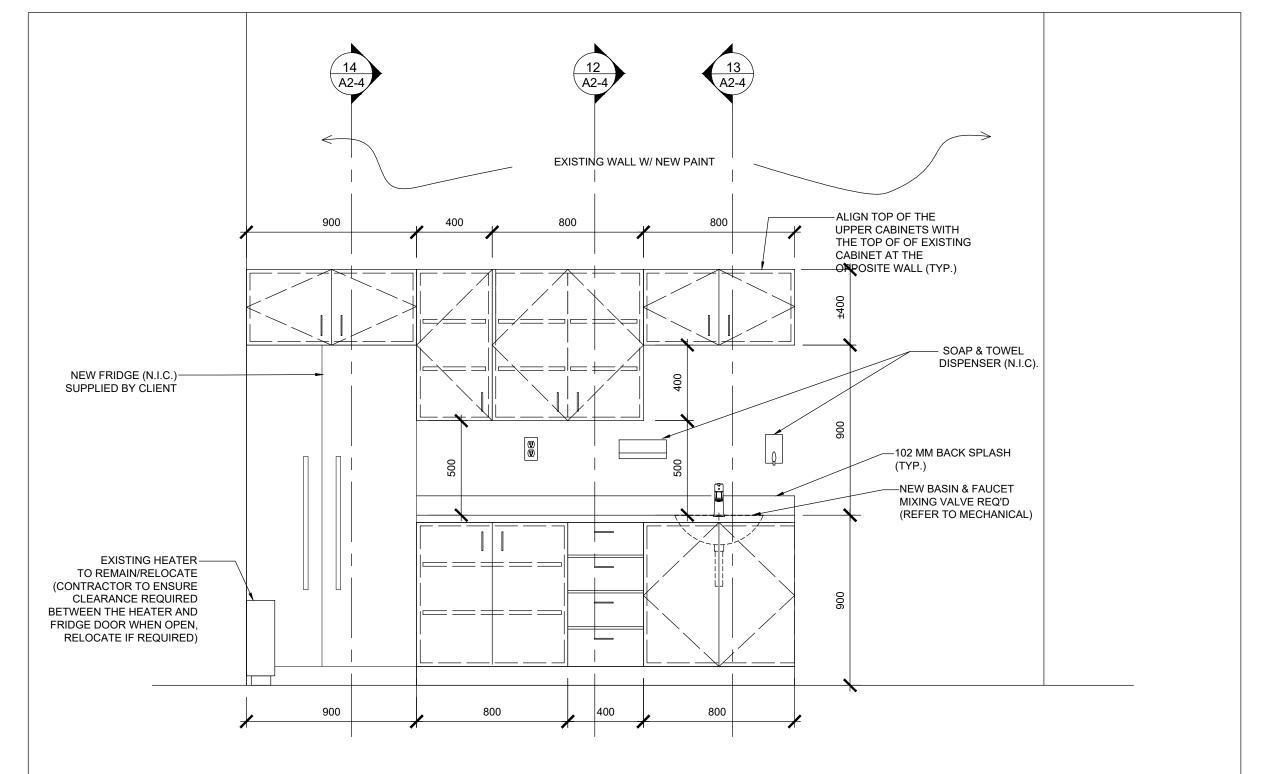
- REINSTALL EXISTING LIGHT FIXTURE TO SUIT NEW LAYOUT, WHERE INDICATED.
- SUPPLY & INSTALL NEW LIGHT FIXTURE, NEW SUSPENSION CEILING, TILES &
- GRIDS AS PER NEW LAYOUT.
- ADD NEW EXPOSED DUCTWORKS FOR COOLING SYSTEM C/W DIFFUSERS &
- GRILLES WHERE INDICATED.
- FINISH SURFACES OF EXISTING BULKHEADS TO REMAIN W/ DRYWALL ON FURRING CHANNELS.

REFER TO MECHANICAL AND ELECTRICAL DRAWINGS FOR RELATED SCOPE OF WORK.









1 INTERIOR ELEVATION-KITCHEN
A2-3 SC. 1:20 R00M 48

3 INTERIOR ELEVATION

R00M 120

A2-3 SC. 1:20

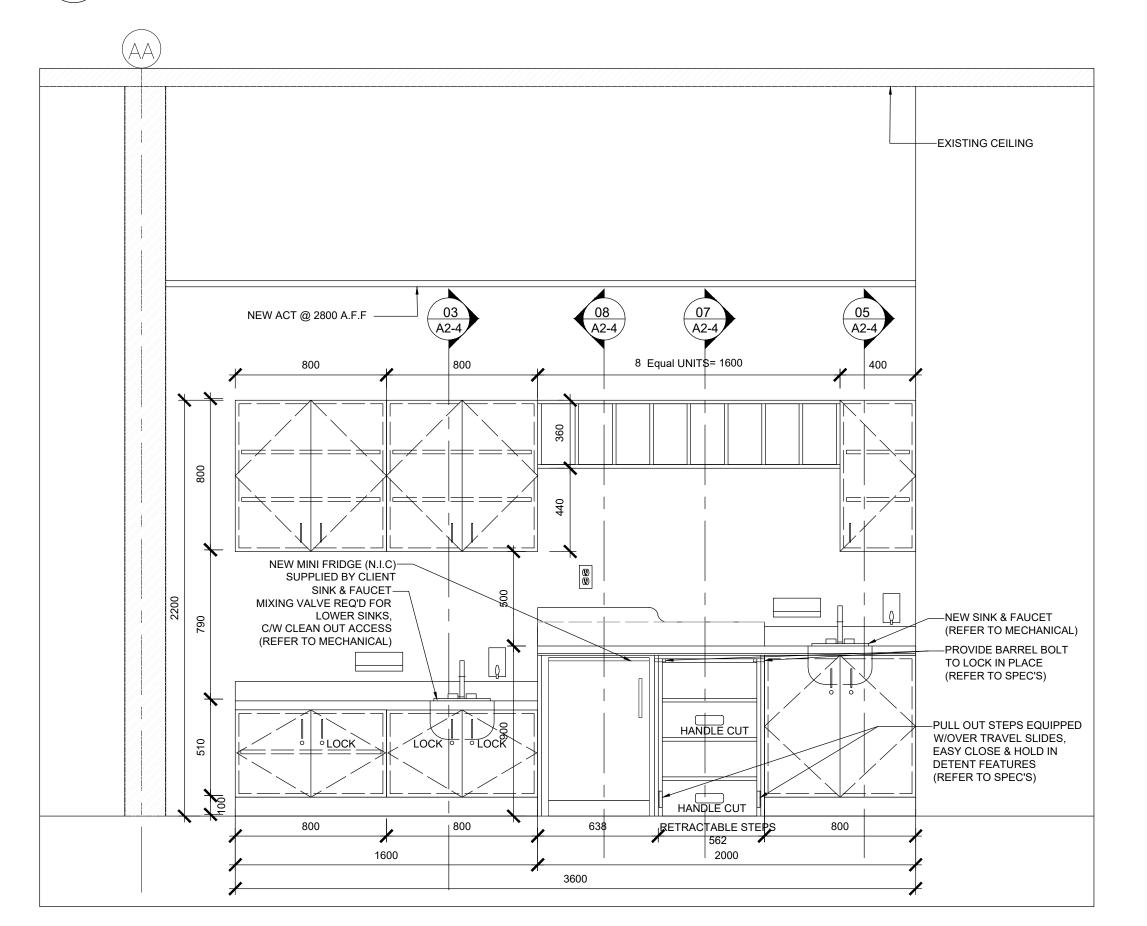


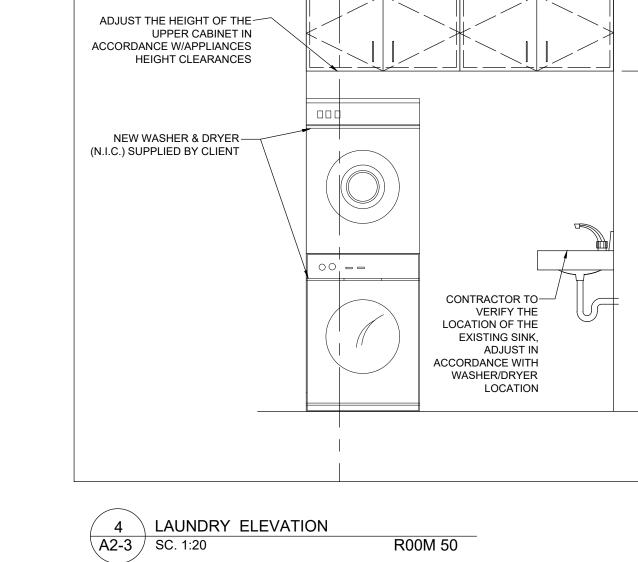
U/S OF NEW GB. CEILING@ -3200 A.F.F. (REFER TO RCP)

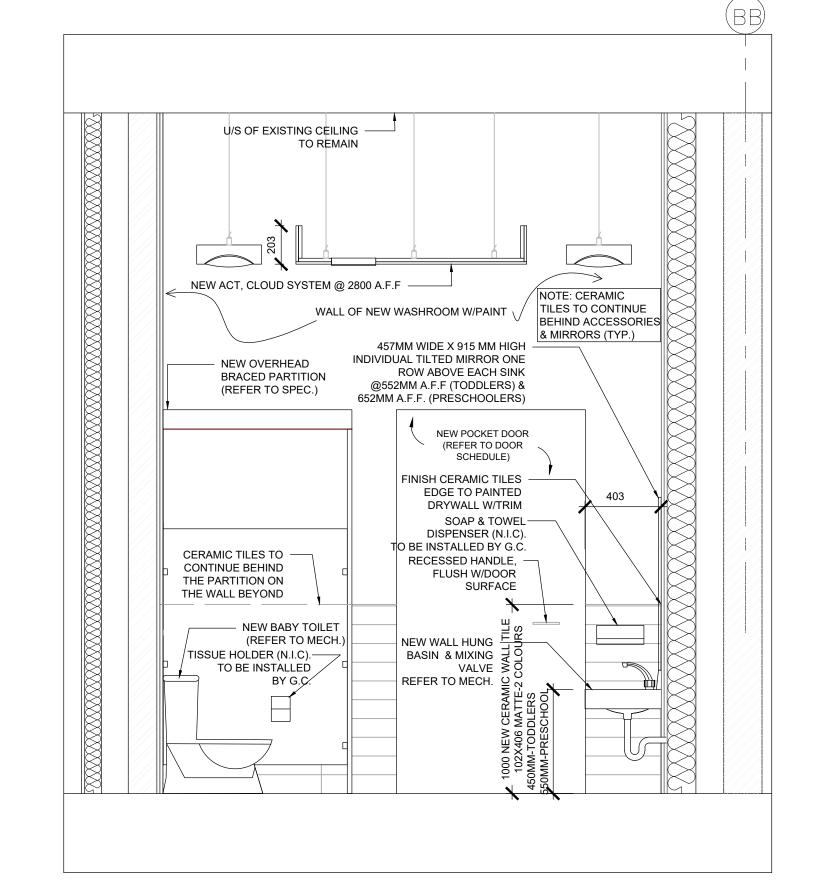
EXISTING WALL W/ NEW PAINT

1626±

SITE VERIFY







5 NEW WASHROOM A2-3 SC. 1:20 R00M 121D NOTES

-VERIFY ALL DIMENSIONS

- MEASUREMENTS TO BE CONFIRMED ON SITE

- VERIFY/CONFIRM LOCATION/DIMENSIONS REFER TO THE EXISTING COMPONENTS AND EQUIPMENTS

-DO NOT SCALE DRAWINGS

-REPORT ANY DISCREPANCIES, DISCOVERED ERRORS OR OMISSIONS TO THE ARCHITECT BEFORE PROCEEDING

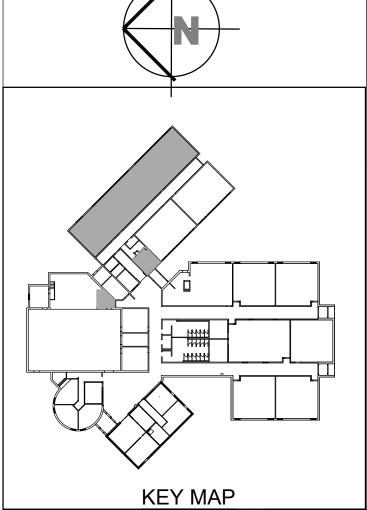
-IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO ENSURE THAT THE DRAWINGS WITH THE LATEST PROVISIONS ARE USED FOR CONSTRUCTION

LEGEND

EXISTING WALLS TO REMOVE

EXISTING WALLS TO REMAIN

NEW WALLS



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ISSUED FOR PERMIT/TENDER FEB25, 2020
SCOPE REDUC.+LIFT,CLIENT REVIEW JAN24, 2020
SCOPE REDUC.+LIFT,CLIENT REVIEW OCT25, 2019
SUBMITTED FOR TENDER & PERMIT JULY 5, 2018
ISSUED FOR 99% DESIGN JUNE 22, 2018
ISSUED FOR 66% DESIGN JUNE 08, 2018





EEC- STE. CROIX DAYCARE INTERIOR RENOVATIONS

TINY, ON



CONSEIL SCOLAIRE CATHOLIQUE MONAVENIR 110 DREWRY AVENUE TORONTO, ON

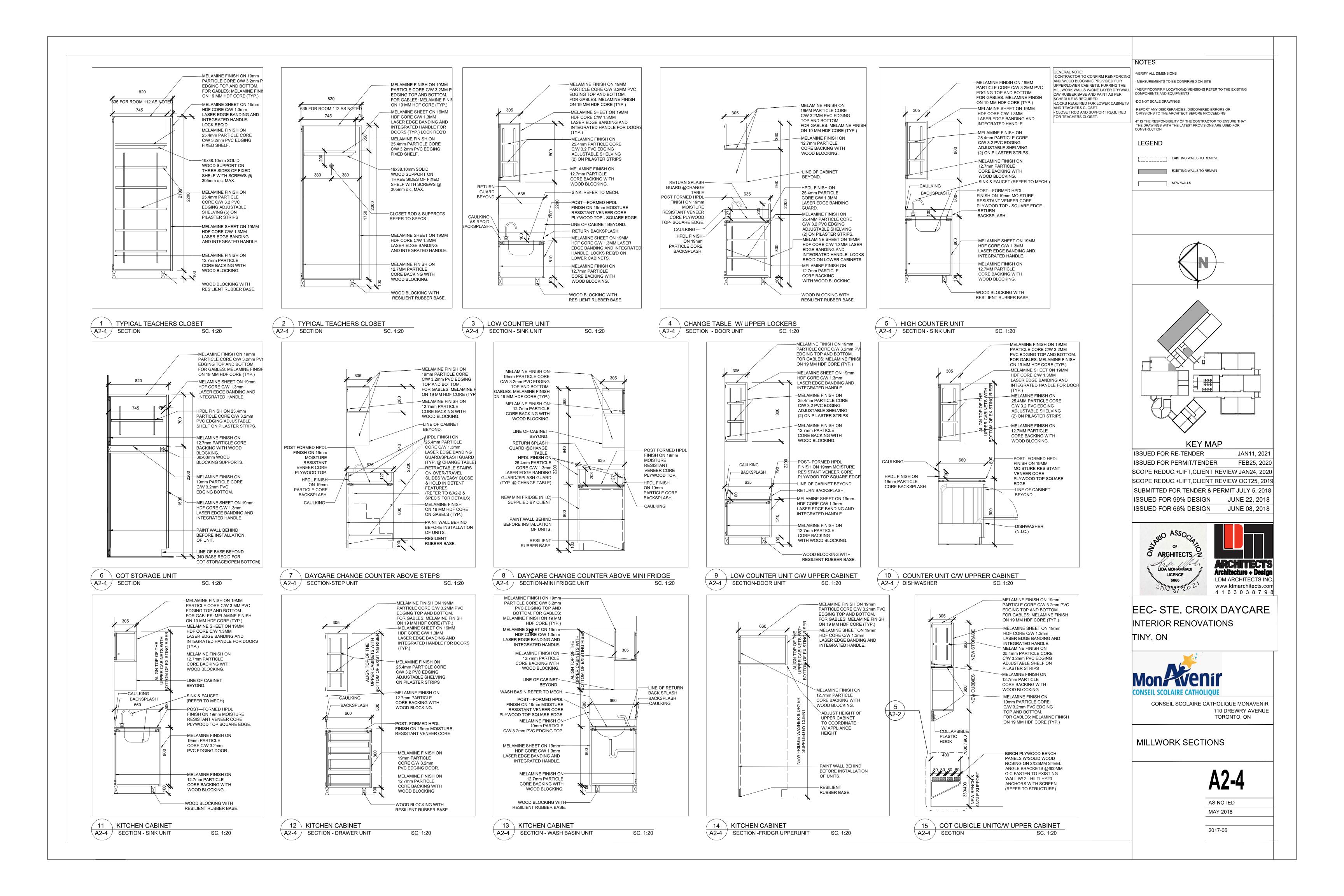
INTERIOR SECTION/ ELEVATIONS

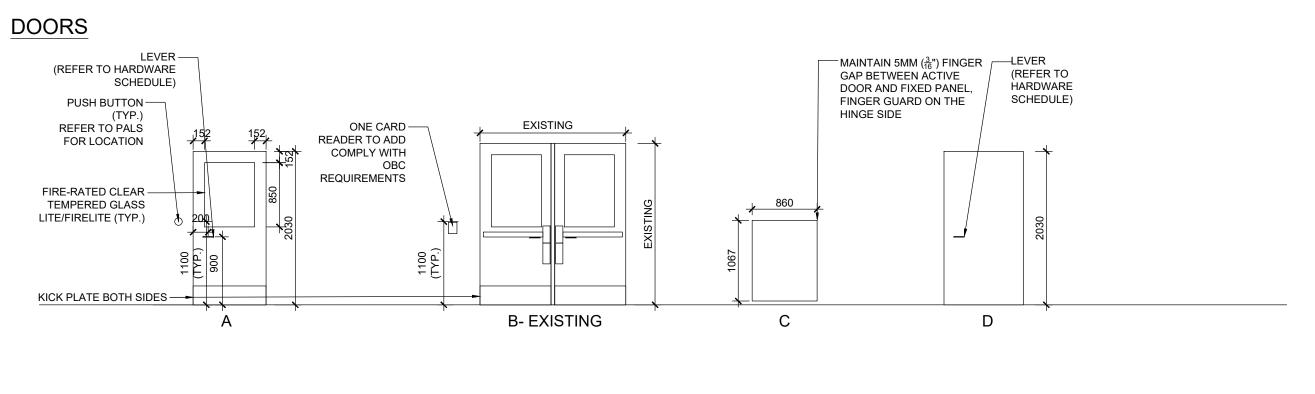


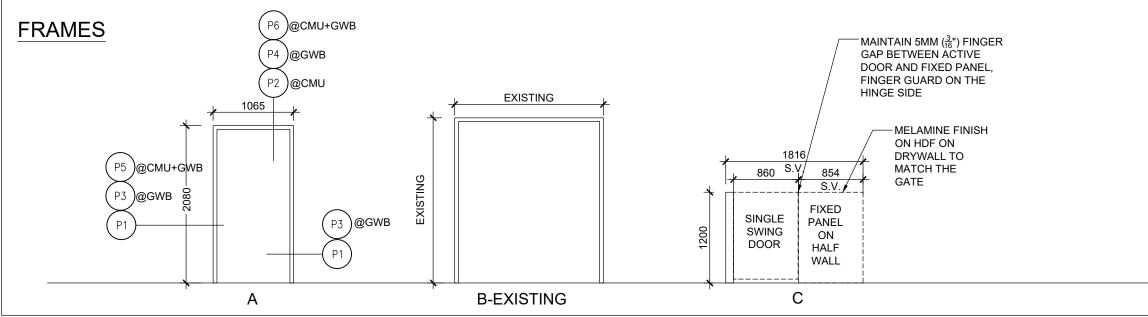
AS NOTED

MAY 2018

2017-06









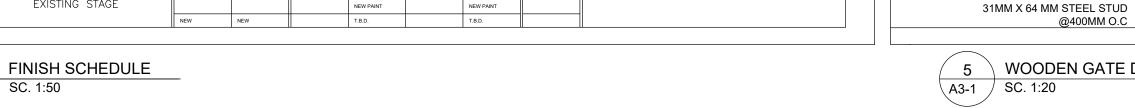
DOOR							_	FRAME	FRAME							
DOOR#	WIDTH	HEIGHT	THICKNESS	ELEVATION	MATERIAL	FINISH	GLASS	ELEVATION	SECTION	SIZE	MATERIAL	FINISH	O/A SIZE	REMARKS		
D1	965	2030	45	А	WD	S+V	FIRELITE	А	P5	50X140	н.м.	PAINT	1065X2080	25 MM UNDERCUT REQUIRED. DOORS TO BE EQUIPPED WI DOOR CLOSER.		
D2	965	2030	45	А	WD	S+V	FIRELITE	А	P5	50X140	н.м.	PAINT	1065X2080	45 MN FIRE RATED. 25 MN UNDEXCUT REQUIRED. DOORS TO BE EQUIPED WI DOOR CLOSER.		
D3	965	2030	45	А	WD	S+V	FIRELITE	А	P3	50X140	н.м.	PAINT	1065X2080	45 MM FIRE RATED. 25 MM INDERCUT REQUIRED. DOORS TO BE EQUIPPED WI DOOR CLOSER.		
D4	860	1150	45	С	WD	S+V	_	С	-	102X102	WD	S+V	965X1200	WOODEN CATE. SINGLE SYINGT TOWARD THE CLASS ROOM, MATCHING FIXED PANEL ON DRYWALL ON STEEL STUD FRAMING ON RIGHT-HA EQUIPPED W FINGER GAP BETWEEN DOORS AND FRIGER GUARD ON HINGE SIDE.		
D5	EXSTG	EXSTG	EXSTG	EXSTG	H.M.	PAINT	EXSTG	EXSTG	EXSTG	EXSTG	н.м.	PAINT	EXSTG	AIPHONE INTERCOM TO INSTALL BESIDE THE LEFT HAND DOOR. EXISTING DOORTMAE & HARDWARE TO REBAIN, ADDITIONAL HARDWARE TO ADD. DOORS TO PATCH, FILL, FINISH & PAIN RICH! HAND DOOR TO BE EQUIPPED WICARD READER, & LEFTICE STRIKE AND NEW DOOR CLOSER. REFER TO ELECTRICAL DRAWINGS & HARDWARE SCHEDULE.		
D6	1050	2030	45	D	WD	S+V	_	_	_	_	_	_	_	HEIGHT OF THE DOOR TO BE MORE THAN THE OPENING, REFER TO THE SLIDING TRACK MANUAL & INSTALLATION. POCKET DOOR POCKET DOOR TO BE EQUIPPED WITH "CACHN CLOSE" SYSTEM.		
D7	1050	2030	45	D	WD	S+V	_	_	_	_	_	_	_	HEIGHT OF THE DOOR TO BE MORE THAN THE OPENING, REFER TO THE SLIDING TRACK MANUAL & INSTALLATION. POCKET DOOR POOR TO DOE EQUIPPED WITH "CACHIN CLOSE" SYSTEM.		
D8	EXSTG	EXSTG	EXSTG	EXSTG	H.M.	PAINT	EXSTG	EXSTG	EXSTG	EXSTG	н.м.	PAINT	EXSTG	EXISTING DOOFFRAME & HARDWARE TO REMAIN, ADDITIONAL HARDWARE TO ADD. DOORS TO PATCH, FILL, FINISH & PAIN RICHT HAND DOOR TO BE EQUIPPED W/CARD READER & ELECTRIC STRIKE AND NEW DOOR CLOSER. REFERS TO ELECTRICAL DRAWINGS & HARDWARE SCHEDULE.		
D9	EXSTG	EXSTG	EXSTG	EXSTG	WD	S+V	EXSTG	EXSTG	EXSTG	WD	H.M.	PAINT	EXSTG	EXISTING DOOR & HARDWARE TO REINSTALL OPPOSITE SWING, PATCH & FINISH TO MATCH TO EXISTING. DOORS TO BE EQUIPPED WI DOOR CLOSER.		

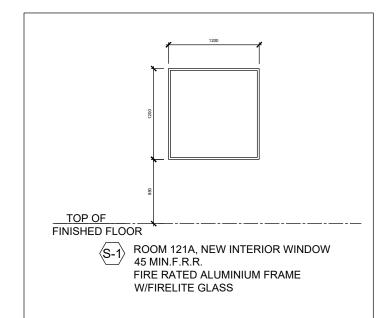
NOTE: DOORS TO BE EQUIPPED WITH DOOR CLOSER.(REFER TO SPEC'S)

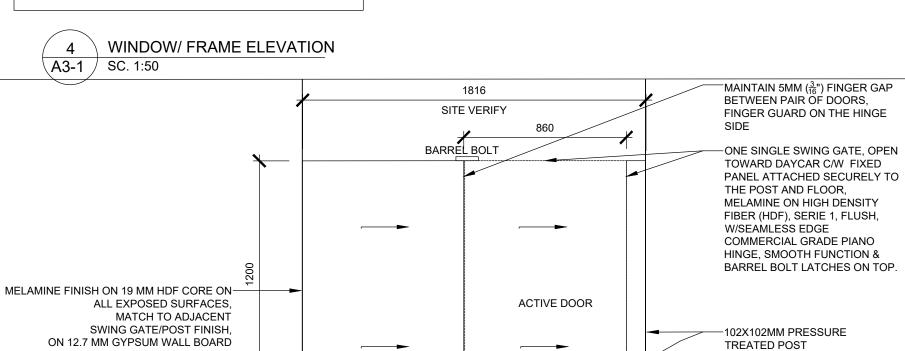
H.M.=HOLLOW METAL WD=SOLID CORE WOOD S+V=STAIN & VARNISH

DOOR SCHEDULE

FINISH SCHE	DULE								
ROOM #	ROOM NAME	FLOOR	BASE	NORTH WALL	EAST WALL	SOUTH WALL	WEST WALL	CEILING	REMARKS
120	PRE-SCHOOL ROOM	V.C.T.	RUBBER	EXTG. / WIN FRAME NEW PAINT	DRYWALL+PAINT	DRYWALL+PAINT	DRYWALL+PAINT	CEILING TILE	SEE RCP LAYOUT FOR REINSTALLATION OF EXISTING/NEW CEILING.
		EXISTING	EXISTING	T.B.D.	T.B.D.	T.B.D.	T.B.D.	EXISTING	
121	TODDLERS ROOM	V.C.T	RUBBER	EXTG. / WIN FRAME NEW PAINT	DRYWALL+PAINT	DRYWALL+PAINT	DRYWALL+PAINT	CEILING TILE	SEE RCP LAYOUT FOR REINSTALLATION OF EXISTING/NEW CEILING.
		EXISTING	EXISTING	T.B.D.	T.B.D.	T.B.D.	T.B.D.	EXISTING	
121A	DAYCARE OFFICE	V.C.T.	EXITG./ NEW RUBBER	DRYWALL + PAINT	DRYWALL + PAINT	DRYWALL/WIN FRAM +PAINT	E DRYWALL/NEW DOOR +PAINT	A.C.T	
		EXISTING	EXISTING	T.B.D.	T.B.D.	T.B.D.	T.B.D.	T.B.D.	
121B	DAYCARE ENTRANCE	V.C.T.	RUBBER	NEW WOODEN GATE +PAINT	DRYWALL+PAINT	DRYWALL/NEW DOOR +PAINT	R DRYWALL + PAINT	A.C.T. & DRYWALL PAINT	REFER TO NEW RCP LAYOUT FOR CONJUNCTION OF CEILINGS.
		EXISTING	EXISTING	T.B.D.	T.B.D.	T.B.D.	T.B.D.	T.B.D.	
121C	CUBBIES ROOM	V.C.T.	RUBBER	DRYWALL+PAINT	DRYWALL+PAINT	DRYWALL+PAINT	DRYWALL/NEW DOOR +PAINT	A.C.T.	
		EXISTING	EXISTING	T.B.D.	T.B.D.	T.B.D.	T.B.D.	NEW	
121D	DAYCARE WASHROOM	V.C.T.	EXTG./ NEW RUBBER	DRYWALL+PAINT +CERAMIC TILE	DRYWALL+PAINT +CERAMIC TILE	DRYWALL+PAINT +CERAMIC TILE	DRYWALL+PAINT +CERAMIC TILE	A.C.T. + EXPOSED	REFER TO NEW RCP LAYOUT FOR CONJUNCTION OF CEILINGS.
		EXISTING	EXISTING	T.B.D.	T.B.D.	T.B.D.	T.B.D.	T.B.D	
48	KITCHEN	V.C.T.	RUBBER	EXTG/NEW DOOR	EXISTING+ DOOR	EXISTING NEW PAINT	EXISTING NEW PAINT	EXISTING NEW PAINT	
	THIOTIET	NEW	NEW	T.B.D.	T.B.D.	T.B.D.	T.B.D.	T.B.D.	
45	EXISTING CORRIDOR	V.C.T.	RUBBER	EXTG./NEW DOOR	EXTG/NEW DOOR	EXTG.	EXTG./NEW DOOR	EXISTING	SEE RCP LAYOUT FOR REINSTALLATION OF EXISTING/NEW CEILING.
		EXISTING	EXISTING						
49	EVICTING CORRIDOR	V.C.T.	RUBBER	N/A	EXTG/NEW DOOR	EXTG./NEW DOOR	EXISTING	EXISTING	SEE RCP LAYOUT FOR REINSTALLATION OF EXISTING/NEW CEILING.
73	EXISTING CORRIDOR	<u> </u>			NEW PAINT	NEW PAINT	NEW PAINT	NEW PAINT	SEEKS STOCK STREETHER OF ENGINEER SEERS.
		NEW	NEW		T.B.D.		T.B.D.	T.B.D.	
50	NEW LAUNDRY ROOM	V.C.T.	RUBBER	EXISTING NEW PAINT	EXISTING NEW PAINT	EXISTING NEW PAINT	EXTG/NEW DOOR NEW PAINT	DRYWALL	INSTALL NEW DRYWALL CEILING.
		NEW	NEW	T.B.D.	T.B.D.	T.B.D.	T.B.D.	T.B.D.	
104A	EXISTING VESTIBULE	V.C.T.	RUBBER	N/A	EXISTING NEW PAINT	EXTG/NEW DOOR NEW PAINT	EXTG/NEW DOOR NEW PAINT	EXISTING PAINT	INSTALL NEW DRYWALL CEILING.
	22	NEW	NEW		T.B.D.	T.B.D.	T.B.D.	T.B.D.	
		V.C.T.	RUBBER	EXISTING	EXISTING	N/A	EXISTING	EXISTING	
104B	EXISTING STAGE	V.O.1.	NODEN	CAIGTING	NEW PAINT	·VO	NEW PAINT	ZAIGTING	
		NEW	NEW		T.B.D.		T.B.D.		







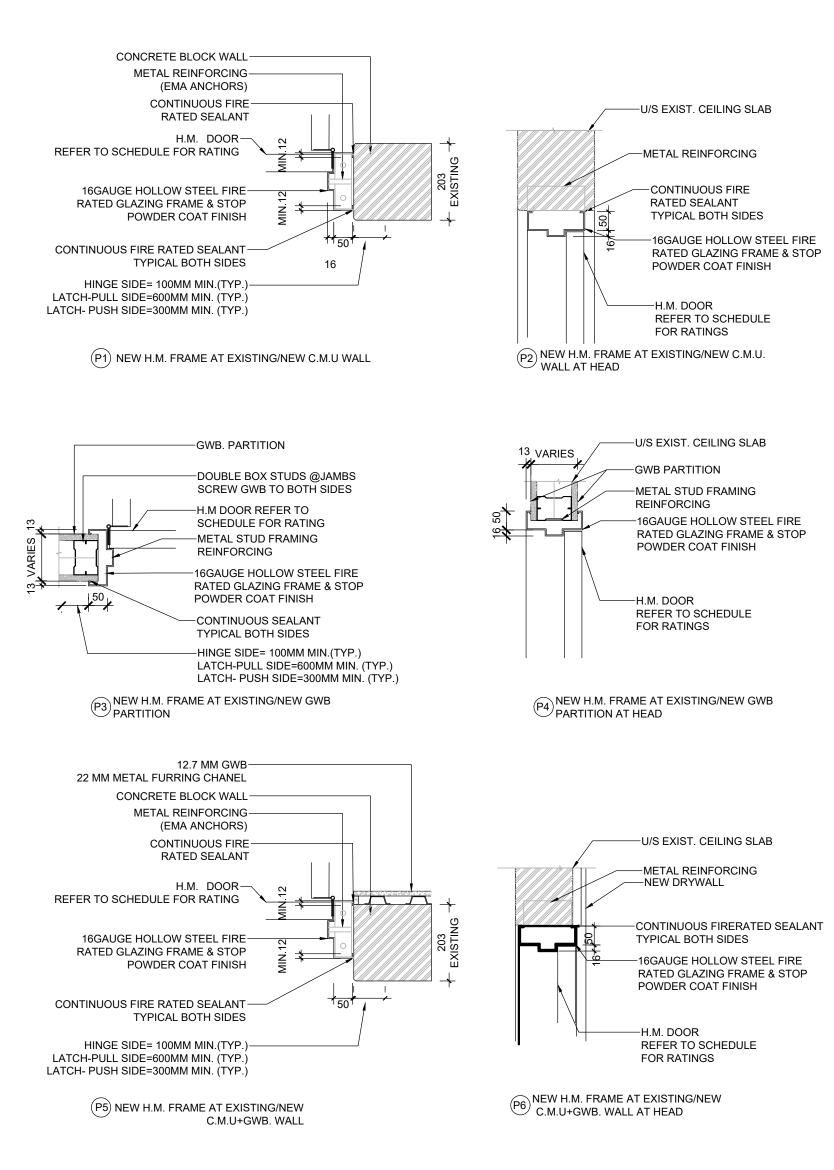
DOOR DETAILS

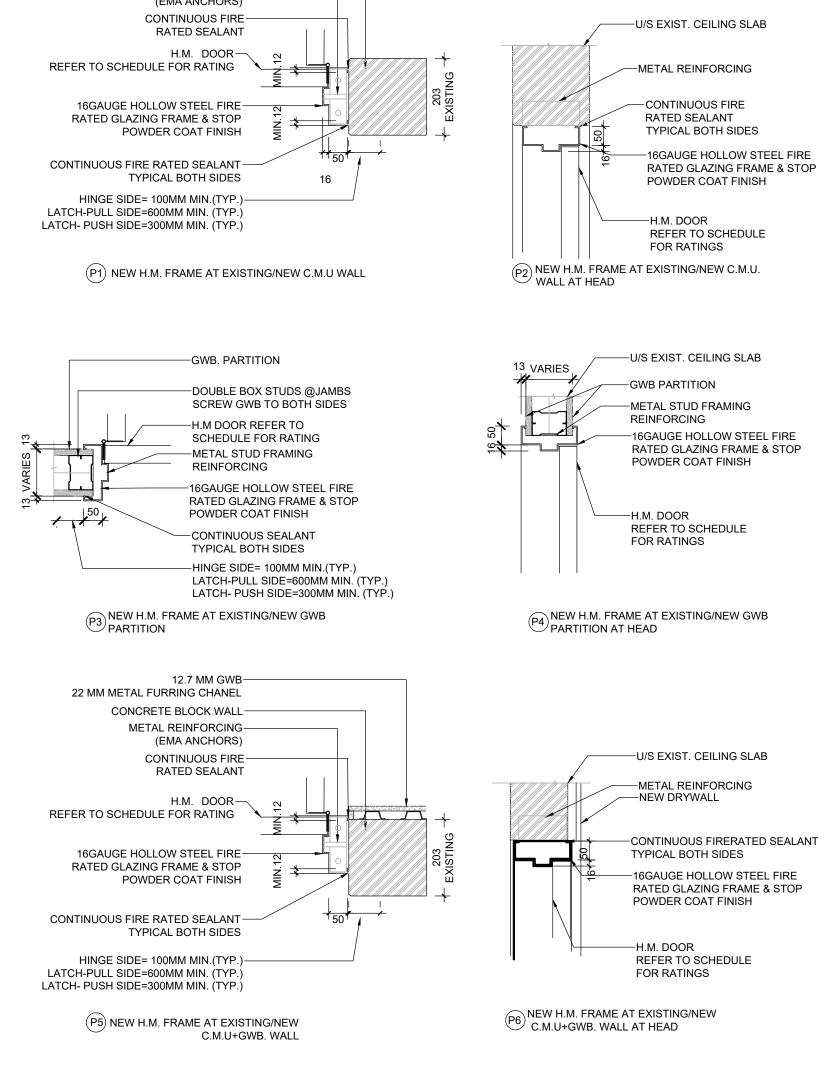
A3-1 SC. 1:10

5 WOODEN GATE DETAIL A3-1 SC. 1:20

BOTH SIDES OF

@400MM O.C





FASTENED TO THE FLOOR

W/T-BLADE ANCHOR C/W CAP

DOOR GENERAL NOTES:

- 1. VERIFY ALL ROUGH OPENING DIMENSIONS ON SITE.
- 2. REFER TO DOOR & HARDWARE SCHEDULE FOR GLAZING AND DOOR TYPES.
- 3. REFER TO DOOR & HARDWARE SCHEDULE FOR DIRECTION OF DOOR SWING.
- 4. DOOR PUSH/PULL: REFER TO HARDWARE SCHEDULE, UNLESS NOTED, OTHERWISE MATCH TO EXISTING.
- 5. SPECIAL HARDWARE: REMOVE, SALVAGE, CLEAN AND REINSTALL
- 6. DOOR HEIGHTS TO MATCH TO EXISTING UNLESS OTHERWISE NOTED.
- 7. ALL FIRE DOORS ARE REQUIRED TO CLOSE AND LATCH FROM AN OPEN POSITION AUTOMATICALLY; TO BE EQUIPPED WITH DOOR CLOSER AT MINIMUM. REFER TO DOOR/HARDWARE SCHEDULE FOR THE LIST OF SPECIAL HARDWARE.
- 8. I.C. CORE TO MATCH TO EXISTING SCHOOL KEYING SYSTEM.

PARTITION TYPES A. ALL NEW PARTITIONS TO U/S/ OF SLAB, UNLESS OTHERWISE NOTED. B. REFER TO ROOM SCHEDULE FOR FINISHES.

C. ALL ELECTRICAL/MECHANICAL DEVICES TO BE

MOVED TO FACE OF NEW PARTITION. W-1 INTERIOR NON-LOAD BEARING WALL 1 HOUR F.R.R. ULC #W407 -15.9MM TYPE X GYPSUM WALL BOARD -89MM ACOUSTIC BATT INSULATION -31MM X 92MM STEEL STUD @400mm O.C. -15.9MM TYPE X GYPSUM WALL BOARD -FLOOR TO U/S OF STRUCTURE -FINISH AS PER FINISH SCHEDULE, PERIMETER CAULKED

W-2 INTERIOR NON-LOAD BEARING WALL -15.9MM GYPSUM WALL BOARD -31MM X 92MM STEEL STUD @400mm O.C. -89MM ACOUSTIC BATT INSULATION -15.9MM GYPSUM WALL BOARD -FLOOR TO U/S OF STRUCTURE -FINISH AS PER FINISH SCHEDULE

-PERIMETER CAULKED W-F1 INTERIOR FURRING TO UNDERNEATH OF THE EXISTING CEILING -22MM METAL FURRING CHANEL @610mm O.C. -12.7MM GYPSUM WALL BOARD -FINISH AS PER FINISH SCHEDULE

W-3 INTERIOR NON-LOAD BEARING WALL -CERAMIC TILE UP TO 1000MM ABOVE FINISHED FLOOR (INSIDE WASHROOM) -16MM CEMENT BACKER BOARD (C.B.U) FLOOR TO U/S OF STRUCTURE -16MM PLYWOOD BLOCKING AS REQ'D FOR MILLWORK AND WASHROOM ACCESSORIES INSTALLATION -WATER PROOFING MEMBRANE -152MM METAL STUDS AT 400MM O.C. -140MM AIR/PLUMBING SPACE -89MM ACOUSTIC BATT INSULATION -92mmMM METAL STUDS AT 400MM O.C. -15.9MM GYPSUM WALL BOARD TO U/S OF STRUCTURE -FINISH AS PER FINISH SCHEDULE -PERIMETER CAULKED

W-3A INTERIOR NON-LOAD BEARING WALL -CERAMIC TILE UP TO 1000MM ABOVE FINISHED FLOOR (INSIDE WASHROOM) -16MM CEMENT BACKER BOARD (C.B.U) FLOOR TO U/S OF STRUCTURE -16MM PLYWOOD BLOCKING AS REQ'D FOR MILLWORK AND WASHROOM ACCESSORIES INSTALLATION -WATER PROOFING MEMBRANE -152MM METAL STUDS AT 400MM O.C. -150MM ACOUSTIC BATT INSULATION -140MM AIR/PLUMBING SPACE -EXISTING WALL -FINISH AS PER FINISH SCHEDULE

-PERIMETER CAULKED W-4 INTERIOR NON-LOAD BEARING WALL -CERAMIC TILE UP TO 1000MM ABOVE FINISHED FLOOR (INSIDE WASHROOM) -16MM CEMENT BACKER BOARD (C.B.U) FLOOR TO U/S OF STRUCTURE -16MM PLYWOOD BLOCKING AS REQ'D FOR MILLWORK AND WASHROOM ACCESSORIES INSTALLATION -WATER PROOFING MEMBRANE -31MM X 64 MM STEEL STUD @400MM O.C. -500 AIR SPACE FOR POCKET DOOR -31MM X 64 MM STEEL STUD @400MM O.C -15.9MM GYPSUM WALL BOARD -FLOOR TO U/S OF STRUCTURE -FINISH AS PER FINISH SCHEDULE -PERIMETER CAULKED

W-5 INTERIOR NON-LOAD BEARING WALL-INFILL 1 HOUR F.R.R. OBC#B2C -12.7MM GYPSUM WALL BOARD (ON CORRIDOR SIDE) -140MM CONCRETE MASONRY UNIT -FLOOR TO U/S OF STRUCTURE -FINISH AS PER FINISH SCHEDULE, PERIMETER CAULKED -ENSURE MORTAR IS PACKED COMPLETELY AND FIRE SEPARATION IS CONTINUOUS -THICKNESS TO MATCH TO EXISTING

A3-1



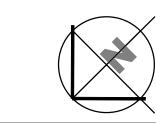
VERIFY ALL DIMENSIONS MEASUREMENTS TO BE CONFIRMED ON SITE VERIFY/CONFIRM LOCATION/DIMENSIONS REFER TO THE EXISTING COMPONENTS AND EQUIPMENTS -DO NOT SCALE DRAWINGS

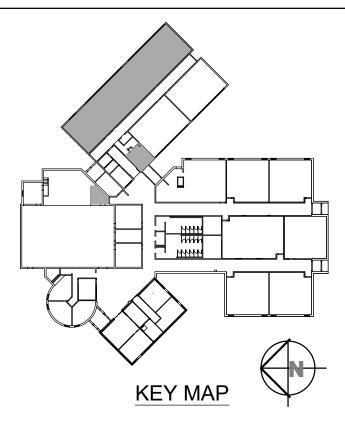
-REPORT ANY DISCREPANCIES, DISCOVERED ERRORS OR OMISSIONS TO THE ARCHITECT BEFORE PROCEEDING T IS THE RESPONSIBILITY OF THE CONTRACTOR TO ENSURE THAT THE DRAWINGS WITH THE LATEST PROVISIONS ARE USED FOR CONSTRUCTION

LEGEND

EXISTING WALLS TO REMOVE

EXISTING WALLS TO REMAIN





ISSUED FOR RE-TENDER JAN11, 2021 ISSUED FOR PERMIT/TENDER FEB25, 2020 SCOPE REDUCTION-CLIENT REVIEW APR26, 2019 SUBMITTED FOR TENDER & PERMIT JULY 5, 2018 JUNE 22, 2018 ISSUED FOR 99% DESIGN ISSUED FOR 66% DESIGN JUNE 08, 2018 ISSUED FOR 33% DESIGN MAY 22, 2018 ISSUED FOR CLIENT REVIEW MAY 14, 2018





EEC- STE. CROIX DAYCARE INTERIOR RENOVATIONS

TINY, ON

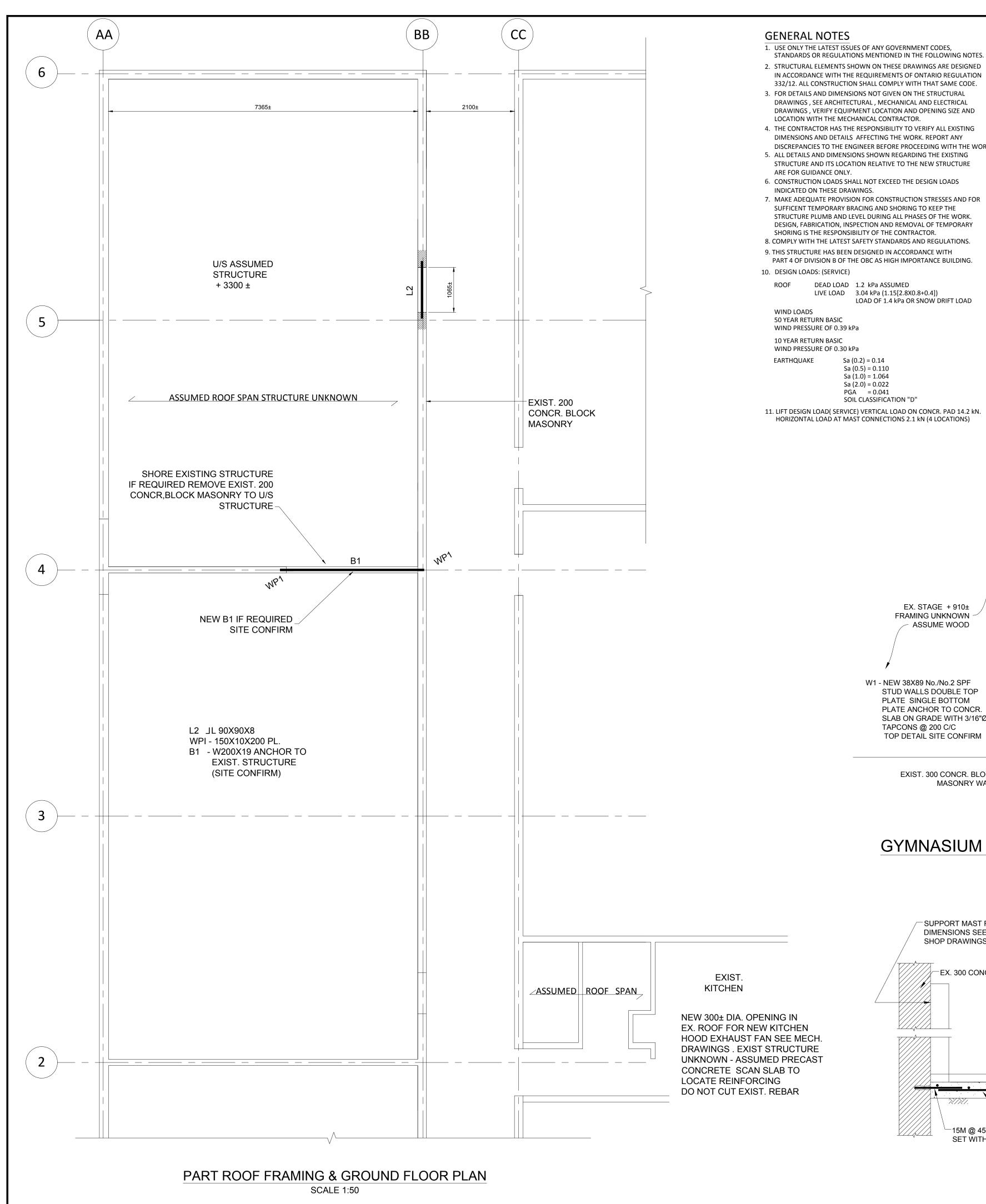


CONSEIL SCOLAIRE CATHOLIQUE MONAVENIR 110 DREWRY AVENUE TORONTO, ON

DOOR DETAILS/SCHEDULES



AS NOTED MAY 2018



- 1. USE ONLY THE LATEST ISSUES OF ANY GOVERNMENT CODES,
- 2. STRUCTURAL ELEMENTS SHOWN ON THESE DRAWINGS ARE DESIGNED IN ACCORDANCE WITH THE REQUIREMENTS OF ONTARIO REGULATION 332/12. ALL CONSTRUCTION SHALL COMPLY WITH THAT SAME CODE.
- 3. FOR DETAILS AND DIMENSIONS NOT GIVEN ON THE STRUCTURAL DRAWINGS, SEE ARCHITECTURAL, MECHANICAL AND ELECTRICAL DRAWINGS, VERIFY EQUIPMENT LOCATION AND OPENING SIZE AND LOCATION WITH THE MECHANICAL CONTRACTOR.
- 4. THE CONTRACTOR HAS THE RESPONSIBILITY TO VERIFY ALL EXISTING DIMENSIONS AND DETAILS AFFECTING THE WORK. REPORT ANY DISCREPANCIES TO THE ENGINEER BEFORE PROCEEDING WITH THE WORK. 5. ALL DETAILS AND DIMENSIONS SHOWN REGARDING THE EXISTING
- 6. CONSTRUCTION LOADS SHALL NOT EXCEED THE DESIGN LOADS
- 7. MAKE ADEQUATE PROVISION FOR CONSTRUCTION STRESSES AND FOR SUFFICENT TEMPORARY BRACING AND SHORING TO KEEP THE STRUCTURE PLUMB AND LEVEL DURING ALL PHASES OF THE WORK. DESIGN, FABRICATION, INSPECTION AND REMOVAL OF TEMPORARY SHORING IS THE RESPONSIBILITY OF THE CONTRACTOR.
- 9. THIS STRUCTURE HAS BEEN DESIGNED IN ACCORDANCE WITH PART 4 OF DIVISION B OF THE OBC AS HIGH IMPORTANCE BUILDING.
- DEAD LOAD 1.2 kPa ASSUMED

Sa (0.2) = 0.14

11. LIFT DESIGN LOAD(SERVICE) VERTICAL LOAD ON CONCR. PAD 14.2 kN.

STRUCTURAL STEEL

- 1. DESIGN , FABRICATION AND ERECTION SHALL CONFORM TO CSA
- STANDARD CAN3-S16-09. 2. ALL STRUCTURAL STEEL IS TO BE IN ACCORDANCE WITH CSA STANDARD G40.20/G40.21-M92. HOLLOW STUCTURAL SECTION ARE TO BE GRADE 350W , CLASS H . WIDE FLANGE BEAMS ARE TO BE GRADE 350W
- ALL OTHER STEEL IS TO BE GRADE 300W. 3. ALL BOLTS ARE TO BE HIGH TENSILE STEEL CONFORMING TO ASTM A325. USE BEARING TYPE CONNECTION (MINIMUM TWO M20
- BOLTS PER CONNECTION) UNLESS NOTED OTHERWISE 4. FOR ANCHOR BOLTS, USE ASTM GRADE A307. 5. ALL ARC WELDING WORK MUST BE DONE IN ACCORDANCE WITH CSA
- STANDARD W59-M1989 AND MUST BE UNDERTAKEN BY A FABRICATOR CERTIFIED TO CSA STANDARD W47.1-92. 6. ALL STEEL IS TO BE PRIME PAINTED IN ACCORDANCE WITH CISC/CPMA
- STANDARD 2-75 UNLESS NOTED TO BE GALVANIZED. TOUCH UP ALL WELDS AND BOLTED AREAS SUBSEQUENT TO ERECTION. 7. PROVIDE ALL REQUIRED GUSSETS, SPACERS, FILLERS AND BATTEN PLATES AND TRUSSES.
- 8. SUBMIT SHOP DRAWINGS FOR REVIEW PRIOR TO FABRICATION. THE ENGINEER REVIEW DOES NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY FOR ENSURING THE SHOP DRAWINGS CONFORM TO THE DRAWINGS. 9. MAKE NO HOLES IN ANY STRUCTURAL STEEL MEMBERS OTHER THAN
- THOSE SHOWN ON THE REVIEWED SHOP DRAWINGS WITHOUT PRIOR APPROVAL BY THE ENGINEER.
- 10. PROVIDE 150mm BEARING LENGTH EACH SIDE ON SOLID MASONRY FOR LINTELS, UNLESS NOTED.

- CONCRETE
- 1. CONFORM TO THE REQUIREMENTS OF CSA STANDARD A23.1-09 FOR ALL SUPPLY, PLACING, CURING, FORMING AND TEMPERATURE PROTECTION OF CONCRETE WORK.
- 2. ALL CONCRETE IS TO BE NORMAL DENSITY WITH A MAXIMUM SLUMP OF 100mm (4 INCHES). CEMENT IS TO BE TYPE 10.
- 3. ALL CONCRETE IS TO HAVE A 28 DAY COMPRESSIVE STRENGTH OF
- 25 MPa . 4. REINFORCING STEEL SHALL BE NEW BILLET DEFORMED BAR CONFORMING
- TO CSA STANDARD G30.18-M92. GRADE 400.
- 5. GROUT WHERE REQUIRED IS TO BE NON-SHRINK TYPE SUCH AS W.R.MEADOWS SEALTIGHT CG-86.
- 6. REINFORCING STEEL IS TO BE DETAILED AND BENT AS OUTLINED IN THE REINFORCING STEEL MANUAL OF STANDARD PRACTICE PUBLISHED
- BY THE REINFORCING STEEL INSTITUTE OF ONTARIO.
- 7. SUBMIT SHOP DRAWINGS OF REINFORCING STEEL FOR REVIEW PRIOR TO FABRICATION.

MASONRY

- 1. THE MINIMUM STRENGTH OF HOLLOW LOAD-BEARING CONCRETE BLOCK ON THE NET AREA IS TO BE 15.0 MPa.
- 2. USE TYPE 'S' MORTAR CONFORMING TO CSA STANDARD A179-04
- FOR ALL LOAD BEARING WALLS

ABBREVIATIONS:

EACH SIDE

EXISTING

FINISH

FLOOR

FOUNDATION

GALVANIZED

HORIZONTAL

INSIDE FACE

HORIZONTAL OUTSIDE FACE

HORIZONTAL INSIDE FACE

HORIZONTAL EACH FACE

CONCR.

DWGS. E.F.

ELEV.

EX. OR EXIST

HOR. OR HORIZ.

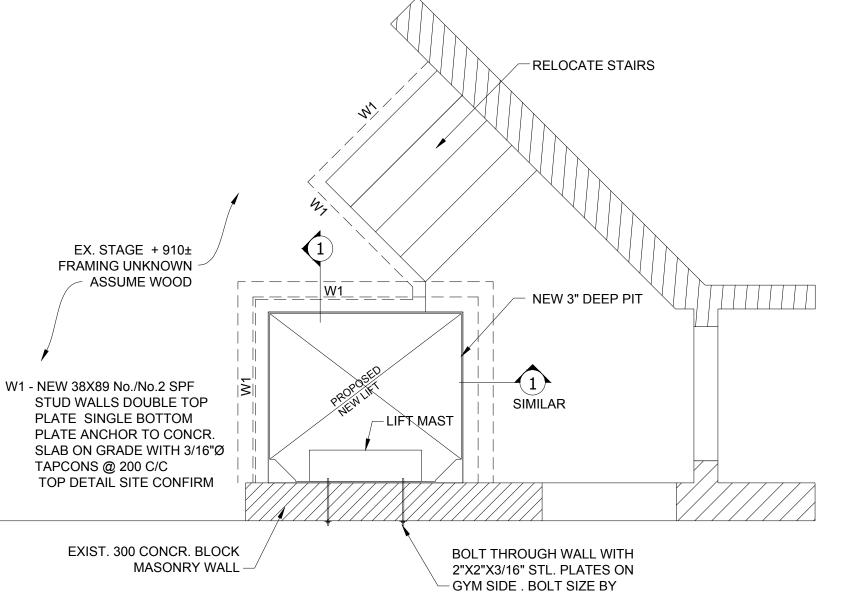
C/C

-	ARCHITECTURAL (DRAWINGS)	LLH -	-	LONG LEG HORIZON
-	BLOCK	LLV -	-	LONG LEG VERTICAL
-	BOTTOM LOWER LAYER	MAX	-	MAXIMUM
-	BEAM	MECH	-	MECHANICAL
-	BOTTOM	MIN	-	MINIMUM
-	BOTTOM UPPER LAYER	NTS -	-	NOT TO SCALE
-	CONCRETE	Ø -	-	DIAMETER
-	CONTINUOUS	O.F	-	OUTSIDE FACE
-	CENTRE TO CENTRE	OWSJ -	-	OPEN WEB STEEL JOI
-	DRAWINGS	PL -	-	PLATE
-	EACH FACE	REINF	-	REINFORCING
	ELEVATION.	CD		COLID DOLINID

STANDARD STEEL TOP AND BOTTOM T&G -TONGUE AND GROOVE TYP. -U/S -U.N.O. -TYPICAL UNDERSIDE

UNLESS NOTED OTHERWISE VERTICAL VERTICAL OUTSIDE FACE V.I.F. V.E.F. VERTICAL INSIDE FACE

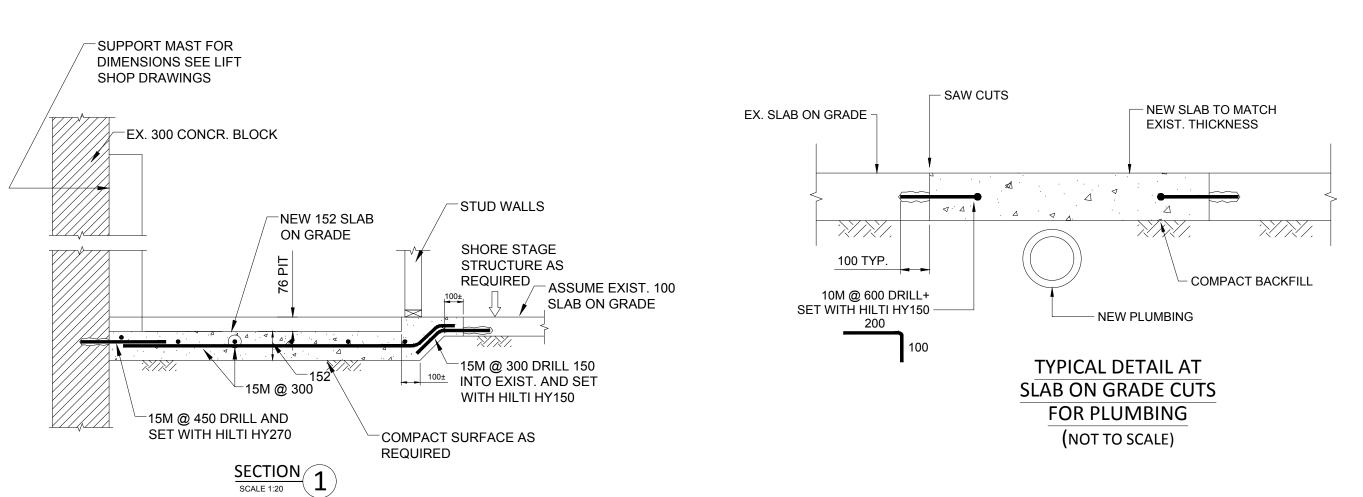
VERTICAL EACH FACE



GYMNASIUM STAGE 104B PART FRAMING AND FOUNDATION PLAN

LIFT SUPPLIER

SCALE 1:30



	/	
No.	REVISIONS	DATE
1	ISSUED FOR REVIEW	22 MAY 2018
2	ISSUED FOR TENDER AND PERMIT	05 JUL 2018
3	DELETE L3	25 OCT 2019
4	DELETE ONE L2	27 OCT 2019
5	ISSUED FOR PERMIT & TENDER	25 FEB 2020
6	ISSUED FOR TENDER	11 JAN 2021





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THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND REPORT ANY DISCREPANCIES TO THE ENGINEER PRIOR TO COMMENCEMENT OF THE WORK DO NOT SCALE DRAWINGS THIS DRAWING IS THE PROPERTY OF THE ENGINEER AND MAY NOT BE REPRODUCED WITHOUT PERMISSION

THE DRAWING IS TO BE USED ONLY FOR THE SPECIFIED PROJECT THIS DRAWING SHALL NOT BE USED FOR CONSTRUCTION

UNLESS SIGNED AND SEALED BY THE ENGINEER

RENOVATIONS TO ECOLE ST.CROIX 351 LAFONTAINE ROAD W.

TIDY, ONTARIO

PARTIAL ROOF FRAMING AND GROUND FLOOR PLAN, **DETAILS AND GENERAL**

1/16"=1'-0" Note: Posted drawings are reduced and are

NOTES

22 MAY 2018 22 MAY 2018 GDA M. SPENCER

S1

LEGEN	D - HVAC
	ALL SYMBOLS MAY NOT APPEAR ON DRAWINGS.
REFER	DESCRIPTION
—E(NAME)—	EXISTING PIPING TO REMAIN
	POSITIVE PRESSURE (SUPPLY) DUCT UP
	POSITIVE PRESSURE (SUPPLY) DUCT UP
	NEGATIVE PRESSURE (RETURN) DUCT UP
Į X	POSITIVE PRESSURE (SUPPLY) DUCT DOWN
	POSITIVE PRESSURE (SUPPLY) DUCT DOWN
Ł	NEGATIVE PRESSURE (RETURN) DUCT DOWN
	EXISTING DUCTWORK TO BE REMOVED
<u> </u>	EXISTING DUCTWORK TO REMAIN
1	NEW DUCTWORK
	SUPPLY AIR DIFFUSER (SQUARE)
	SUPPLY AIR DIFFUSER (ROUND)
	SIDEWALL GRILLE
	RETURN/EXHAUST GRILLE
	FULL RADIUS DUCT CONNECTION
 	TAP-IN DUCT CONNECTION
10 Table 2	ROUND DUCT CONNECTION
	TURNING VANES
₹ NFD →	FIRE DAMPER
₹ NEXFD →	EXISTING FIRE DAMPER
MD	MOTORIZED DAMPER
SD	SMOKE-FIRE DAMPER COMBINATION
EXMD	EXISTING MOTORIZED DAMPER
AD	ACCESS DOOR
BD	BALANCING DAMPER
OBBD	OPPOSED BLADE BALANCING DAMPER
OED	OPEN ENDED DUCT
Ф	THERMOSTAT
CAP —	CAP

PLUMBING NOTES

- CONTRACTOR IS TO VERIFY CONNECTION POINTS TO SERVICES WITH OTHER TRADES ON SITE.
- CONTRACTOR IS TO CLEAR DUCTWORK WHEN INSTALLING NEW PIPING. CLEARANCES TO BE VERIFIED ON SITE.
- PROVIDE A CLEANOUT AT THE BOTTOM OF EVERY SOIL AND WASTE STACK THAT CONNECTS TO A HORIZONTAL DRAINAGE PIPE.
- 4. PROVIDE A CLEANOUT FROM EACH PLUMBING FIXTURE WHERE REQUIRED BY ONTARIO BUILDING CODE, PART 7 PLUMBING.
- CHECK AND VERIFY LOCATION OF ALL PIPES. DUCTS AND EQUIPMENT WITH ALL OTHER TRADES TO PREVENT INTERFERENCE. REMOVAL OR RELOCATION OF ANY SUCH WORK INTERFERING WITH WORK OF OTHER TRADES IS THE RESPONSIBILITY OF THE MECHANICAL TRADE CONCERNED UNLESS OTHERWISE APPROVED IN WRITING.
- ALL PLUMBING FIXTURES INCLUDING FLOOR DRAINS (HUB, FUNNEL FLOOR DRAINS) TO BE TRAPPED AND VENTED AS REQUIRED BY ONTARIO BUILDING CODE, PART 7 - PLUMBING.
- FOR MOUNTING HEIGHT OF ALL PLUMBING FIXTURES REFER TO ARCHITECTURAL DRAWINGS.
- PROVIDE ACCESS DOOR FOR ALL VALVES LOCATED ABOVE DRY WALL
- 9. PROVIDE ACCESS DOOR FOR ALL CLEANOUTS LOCATED ABOVE DRY WALL CEILING.
- 10. IN ALL INSTANCES THE NEED FOR ACCESS DOOR IN GWB CEILINGS SHOULD BE AVOIDED IF POSSIBLE. WHERE INSTALLATION OF COMPONENTS WHICH REQUIRE ACCESS CANNOT BE AVOIDED, SUBMIT (DIMENSIONED) LAYOUT ON ARCHITECTURAL REFLECTED CEILING PLANS TO CONSULTANTS FOR APPROVAL PRIOR TO INSTALLATION OF
- 11. ALL DISTURBED SERVICES AFTER PIPE REMOVAL OR REROUTING TO BE FILLED-IN WITH APPROPRIATE MATERIAL TO MAINTAIN FIRE SEPARATION AND PATCHED TO MATCH EXISTING OR NEW FINISHES.
- 12. CONTRACTOR IS TO REMOVE ALL OBSOLETE PIPING WHEREVER POSSIBLE.
- 13. CONTRACTOR IS TO ENSURE THAT ALL EXISTING PIPING SERVING EXISTING AREAS REMAIN IN SERVICE UNTIL THESE AREAS ARE RECONNECTED TO NEW SERVICES. ONLY THEN OBSOLETE PIPING IS

14. BEFORE CUTTING ANY HOLES THROUGH THE EXISTING SLAB REFER TO

- EXISTING STRUCTURAL DRAWINGS FOR GENERAL REQUIREMENTS. 15. AFTER PIPE REMOVAL ALL EXISTING OPENINGS IN FIRE SEPARATION ARE TO BE FILLED-IN TO MAINTAIN INTEGRITY OF THAT FIRE SEPARATION.
- 16. RECONNECT VENTS FROM EXISTING EQUIPMENT AND PLUMBING FIXTURES WHICH ARE TO REMAIN TO NEW VENTS AS REQUIRED.
- 17. PROVIDE SIGN IDENTIFYING LOCATION OF ALL VALVES INSTALLED IN CEILING SPACE. 18. ALL WATER, SANITARY, SEWER AND VENT COPPER PIPING WITH
- IN OUTSIDE WALL WHERE THEY MAY FREEZE, UNLESS BOTH THE WALL AND THE PIPES ARE PROPERLY INSULATED. 19. INSTALL SHUT-OFF VALVES AT EACH PLUMBING FIXTURE AND EACH EQUIPMENT CONNECTION.

SOLDER JOINTS SHALL BE LEAD FREE. DO NOT INSTALL WATER LINES

20. REFER TO ARCHITECTURAL FOR OWNER SUPPLIED EQUIPMENT.

CONFIRM ALL MECHANICAL REQUIREMENTS AND PROVIDE TO SUIT.

- MECHANICAL DRAWING LIST
- MO.O MECHANICAL LEGENDS, NOTES, DRAWING LIST AND SCHEDULES
- MO.1 KEY PLAN
- M1.0D DEMOLITION DRAINAGE AND PLUMBING FLOOR PLAN
- M2.0D DEMOLITION HVAC FLOOR PLAN
- M1.0 NEW DRAINAGE FLOOR PLAN
- M2.0 NEW PLUMBING FLOOR PLAN
- M3.0 NEW HVAC GROUND FLOOR PLAN
- MECHANICAL DETAILS
- M5.0 MECHANICAL SPECIFICATIONS 1

M5.1 MECHANICAL SPECIFICATIONS - 2

LEGEND - PLUMBING

——Е—	ALEXSAMINIOURIPHINAY NOT APPEAR ON DRAWINGS.								
REFER	BENESTIGICAPLD WATER PIPING								
	DOMESTIC HOT WATER PIPING								
	DOMESTIC HOT WATER RECIRC. PIPING								
V	VENT PIPING								
	SANITARY PIPING ABOVE FLOOR SANITARY PIPING BELOW GRADE OR FLOOR								
*************	PIPING TO BE REMOVED								
········	HEAT TRACED PIPING								
—Е—— —	CONNECTION OF NEW AND EXISTING PIPING								
	CAPPED PIPE								
⊘ FD	FLOOR DRAIN								
O FFD	FUNNEL FLOOR DRAIN								
⊘ HD	HUB DRAIN								
● RD	ROOF DRAIN								
● RD	ROOF DRAIN ABOVE CLEANOUT IN FLOOR								
co									
<u>—</u> п со	CLEANOUT IN LINE OR STACK								
M	WATER METER								
$-\!$	ISOLATION VALVE								
── ₩	THROTTLING VALVE								
	CHECK VALVE								
	STRAINER								
— RPBP	REDUCED PRESSURE BACKFLOW PREVENTER								
M	3-WAY VALVE								
\$ 1	TEMPERATURE & PRESSURE RELIEF VALVE								
>	SOLENOID VALVE								
	UNION								
OPG	PRESSURE GAUGE								
T	THERMOMETER								
	PUMP								
	PIPE DOWN								
 0	PIPE UP								
	PIPE UP & DOWN								
	PIPE TEE								

GENERAL NOTES

PHASING AND STAGING.

— E—— | EXISTING PIPING

DENOTES EXISTING

FEC | FIRE EXTINGUISHER - CABINET

FEX FIRE EXTINGUISHER - SURFACE MOUNTED

REFER TO ARCHITECTURAL REFLECTED CEILING PLAN FOR COORDINATION OF GRILLES, DIFFUSERS AND OTHER ELEMENTS.

IN ALL INSTANCES THE NEED FOR ACCESS DOORS IN GWB CEILINGS SHOULD BE AVOIDED IF POSSIBLE. WHERE INSTALLATION OF COMPONENTS WHICH REQUIRE ACCESS CANNOT BE AVOIDED, SUBMIT (DIMENSIONED) LAYOUT ON ARCHITECTURAL REFLECTED CEILING PLANS TO CONSULTANTS FOR APPROVAL PRIOR TO INSTALLATION OF COMPONENT. EXISTING ITEMS TO BE REMOVED REMAIN THE PROPERTY OF THE OWNER AND SHALL BE DELIVERED TO A LOCATION ON SITE DESIGNATED BY THE OWNER.
IF THE OWNER DECLARES NO INTEREST IN THE REMOVED ITEMS, ASSUME OWNERSHIP AND REMOVE THE ITEMS FROM THE SITE. REFER TO ARCHITECTURAL DRAWINGS AND SPECIFICATION FOR

RETURN/ EXHAUST GRILLE SCHEDULE

SYMBOL	SIZE MM x MM (IN. x IN.)	APPLICATION	NECK SIZE MMØ (INSØ)	AIRFLOW RANGE CFM	NC RANGE	MANUFACTURER AND MODEL (BASIS OF DEISN: E.H. PRICE)
E-1 R-1 CFM CFM	300x300 (12x12)	CEILING GRILLE	-	<450	<30	80D

NOTE(S): 1. ACCEPTABLE ALTERNATES SUBJECT TO SHOP DRAWING REVIEW: TITUS, METALAIRE, KRUEGER.

DIFFU	DIFFUSER SCHEDULE													
SYMBOL	SIZE MM x MM (IN. x IN.)	APPLICATION	NECK SIZE MMØ (INSØ)	AIRFLOW RANGE CFM	NC RANGE	MANUFACTURER AND MODEL (BASIS OF DEISN: E.H. PRICE)								
S-1 CFM	600x600 (24x24)	4 WAY CEILING DIFFUSER	150 (6)	0-135	<30	SCD								

NOTE(S): 1. ACCEPTABLE ALTERNATES SUBJECT TO SHOP DRAWING REVIEW: TITUS, METALAIRE, KRUEGER.

EXHAUST FAN SCHEDULE

REFER AREA SERVED AIR FLOW CFM IN.W.C. HOTOR SIZE HOTOR SIZE HOTOR SIZE HOTOR SIZE HOTOR SIZE HOTOR SPEED RPM LBS SONES CONTROL MANUFACTURER, MODEL AND ACCESSORIES EF-1 WASHROOM 132 (280) 0.4 116WATTS 120V/1ø/60Hz DIRECT 900 - 5.5 WALL MOUNTED FAN SPEED CONTROLLER BACKDRAFT DAMPER, FAN SPEED CONTROLLER, INTEGRAL BACKDRAFT DAMPER, FAN SPEED CONTROLLER, ISOLATOR KIT, AND ACCESSORIES SPEED CONTROLLER BACKDRAFT DAMPER, FAN SPEED CONTROLLER, INTEGRAL BACKDRAFT DAMPER, FAN SPEED CONTROLLER, ISOLATOR KIT, AND ACCESSORIES SPEED CONTROLLER.												
EF-1 WASHROOM 132 (280) 0.4 116WATTS 120V/1ø/60Hz DIRECT 900 - 5.5 WALL MOUNTED FAN SPEED CONTROLLER, MODEL AND ACCESSORIES WASHROOM CFM IN.W.C. MOTOR SIZE VOLTAGE DRIVE SPEED RPM LBS SONES CONTROL WASHROOM CFM IN.W.C. MOTOR SIZE VOLTAGE DRIVE SPEED RPM LBS SONES CONTROL WASHROOM CFM IN.W.C. MOTOR SIZE VOLTAGE DRIVE SPEED WEIGHT SONES CONTROL WASHROOM BACKDRAFT DAMPER, FAN SPEED CONTROLLER, INTEGRAL SPEED CONTROLLER, I		AREA	AIR FLOW	E.S.P.		ELECTRICAL			_			
EF-1 WASHROOM (280) 0.4 116WATTS 120V/10/60HZ DIRECT 900 - 5.5 SPEED CONTROLLER BACKDRAFT DAMPER, FAN SPEED CONTROLLER, ISOLATOR KIT, A	REFER		_			VOLTAGE	DRIVE		_	SONES	CONTROL	MANUFACTURER, MODEL AND ACCESSORIES
BRICK VENI.	EF-1	WASHROOM	132 (280)	0.4	116WATTS	120V/1ø/60Hz	DIRECT	900	-	5.5	WALL MOUNTED FAN SPEED CONTROLLER	COOK GC-542; COMPLETE WITH WHITE STEEL GRILL, INTEGRAL BACKDRAFT DAMPER, FAN SPEED CONTROLLER, ISOLATOR KIT, AND BRICK VENT.

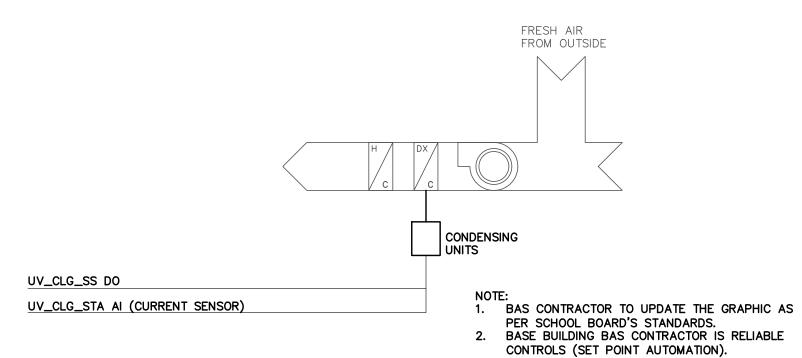
NOTES: 1. ALL FANS SHALL INCLUDE VIBRATION ISLOATION AND STARTERS.

2. REFER TO THE CONTROL SCHEMATICS AND SEQUENCES OF OPERATION.
3. ACCEPTABLE ALTERNATES SUBJECT TI SHOP DRAWING REVIEW: COOK, CARNES, GREENHECK, REVERSOMATIC, BROAN.

	PLUMBING FIXTURE CONNECTION SCHEDULE													
TAG	FIXTURN NAME	SANI	TARY	VENT		DCWS		DHWS		TEMPERED		REMARKS		
IAG	FIXTURN NAME	ММ	INS	ММ	INS	ММ	INS	ММ	INS	ММ	INS			
W1	FLOOR MOUNTED FLUSH TANK WATER CLOSET	75	3.00	38	1.50	13	0.50	ı	_	_	_			
L1	COUNTERTOP LAVATORY C/W POINT OF USE THERMOSTATIC WATER MIXING VALVE	32	1.25	32	1.25	13	0.50	13	0.50	13	0.5			
L2	COUNTERTOP LAVATORY C/W POINT OF USE THERMOSTATIC WATER MIXING VALVE	32	1.25	32	1.25	13	0.50	13	0.50	13	0.5			
S1	SINK C/W POINT OF USE THERMOSTATIC WATER MIXING VALVE	38	1.50	32	1.25	13	0.50	13	0.50	13	0.5			
S1A	SINK	38	1.50	32	1.25	13	0.50	13	0.50	_	-			
S2	TWO COMPARTMENT SINK	38	1.50	32	1.25	13	0.50	13	0.50	_	_			
DW	DISHWASHER BY MECHANICAL CONTRACTOR	38	1.50	32	1.25	-	_	13	0.50	-	-			
FD	FLOOR DRAIN	75	3.00	38	1.50	10	0.38	-	_	_	_			
HD	HUB DRAIN	75	3.00	38	1.50	10	0.38	_	_	_	_			
FFD	FUNNEL FLOOR DRAIN	75	3.00	38	1.50	10	0.38	-	-	_	_			
TSP	TRAP SEAL PRIMER	_	-	-	_	10/13	0.38/0. 50	_	_	_	_	ONE - 10MM/0.38" PER FD, FFD, HD, PD		

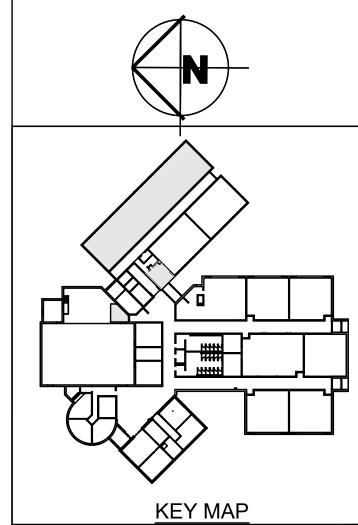
CONDENSING LIMIT SCHEDLILE

CO	CONDENSING UNIT SCHEDULE											
REFER	MODEL		CAPACITY AT 50°F SST/ 95°F AMBIENT (MBH)	ELECTRICAL			REMARKS					
TALL LIX				VOLTAGE	M.C.A.	M.O.C.P.						
<u>CU-1</u>	CARRIER 24AHA436A003-8E01	3.0 TONS	36.0	208V/1/60Hz	18.8A	30A	CONDENSING UNIT COMPLETE WITH LOW AMBIENT HEAD PRESSURE CONTROL TO -20°F, WINTER START KIT, HIGH AND LOW PRESSURE SWITCHES, FILTER DRIER, CRANCK CASE HEATER, HARD START KIT, TIME GUARD CIRCUIT, WIND BAFFLE (FIELD INSTALLED), THERMOSTATIC					
							EXPANSION VALVES, FREEZESTAT FOR THE DX COIL (FIELD INSTALLED).					



UNIT VENTILATOR CONTROL





ISSUED FOR RE-TENDER JAN 11, 2021 ISSUED FOR TENDER/PERMIT FEB 25, 2020 ISSUED FOR REVIEW FEB 19, 2020

ISSUED FOR REVIEW JAN 23, 2020 ISSUED FOR PERMIT JULY 05, 2018 ISSUED FOR TENDER JULY 05, 2018

ISSUED FOR 80% DESIGN JUNE 15, 2018 ISSUED FOR 66% DESIGN JUNE 07, 2018 ISSUED FOR 33% DESIGN MAY 22, 2018



EEC- STE. CROIX DAYCARE INTERIOR RENOVATIONS

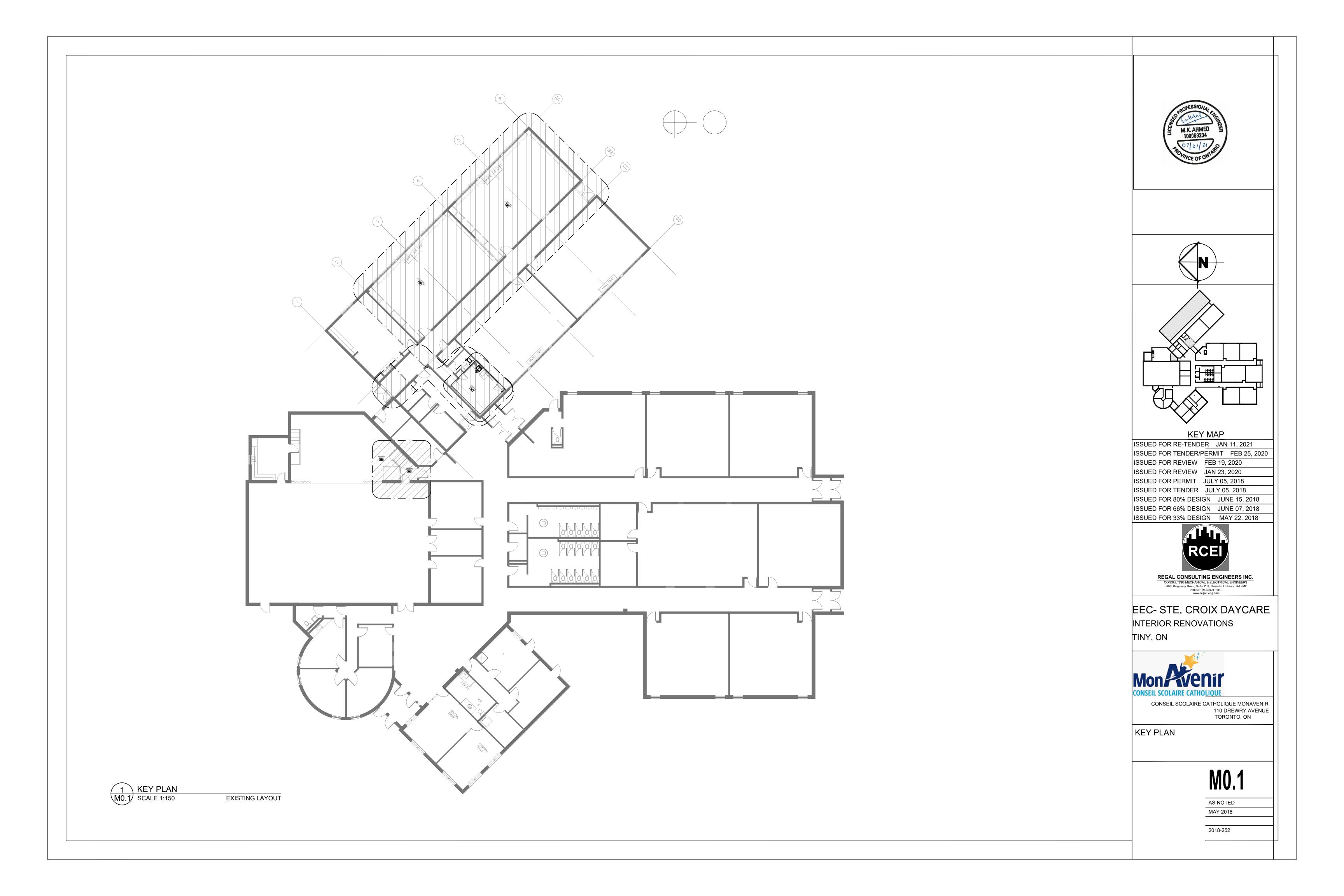
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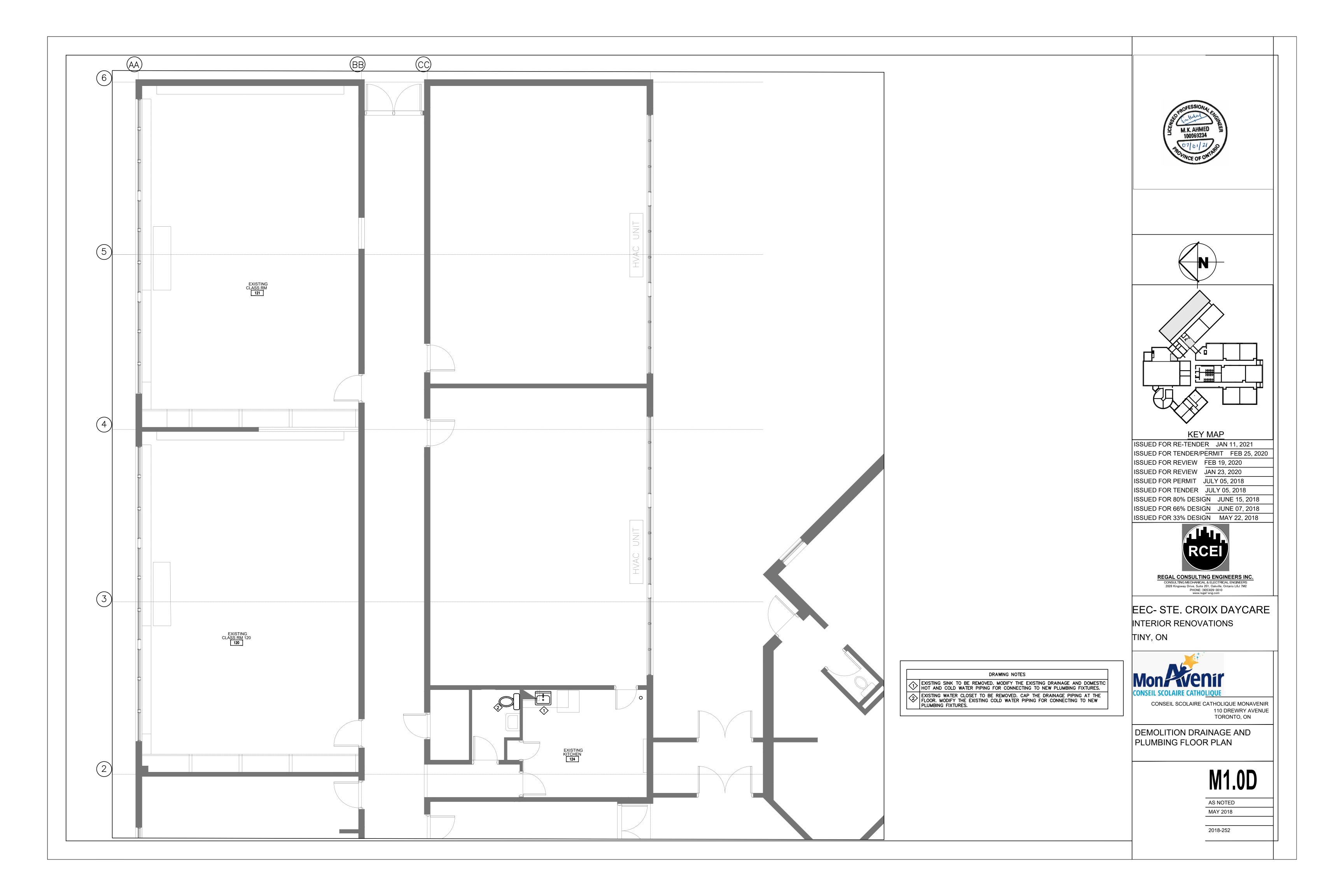


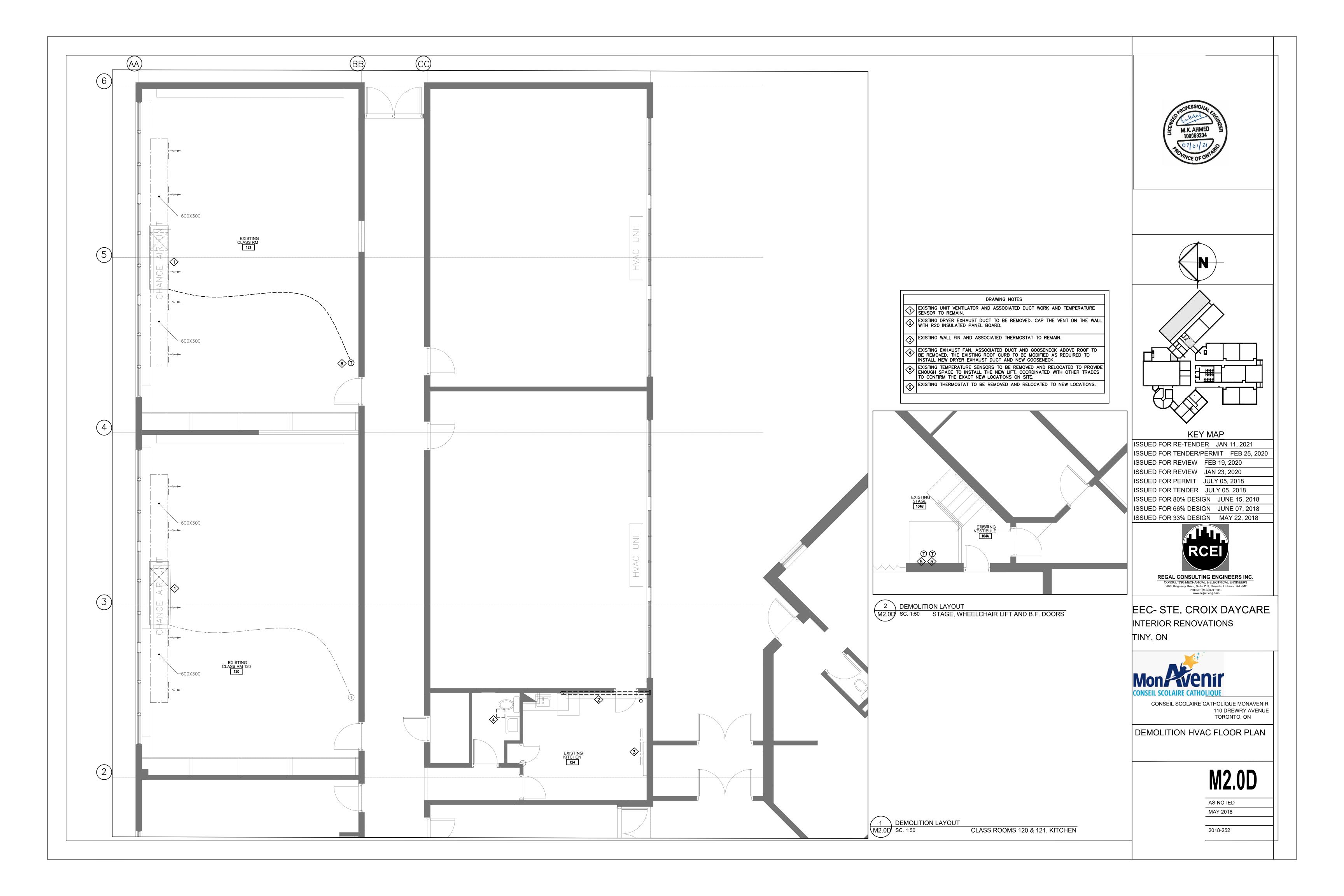
CONSEIL SCOLAIRE CATHOLIQUE MONAVENIR 110 DREWRY AVENUE TORONTO, ON

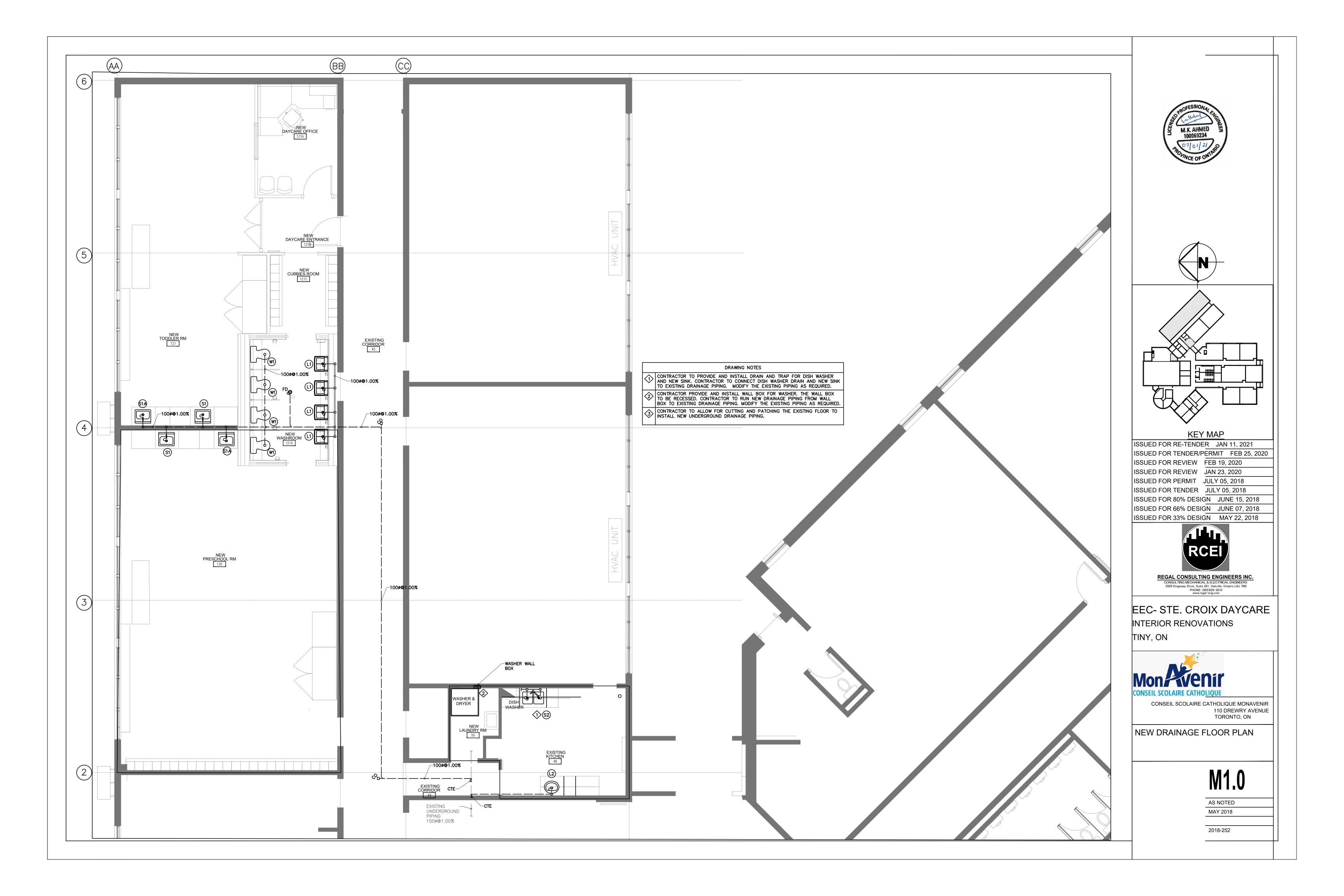
MECHANICAL LEGENDS, NOTES, DRAWING LIST AND SCHEDULES

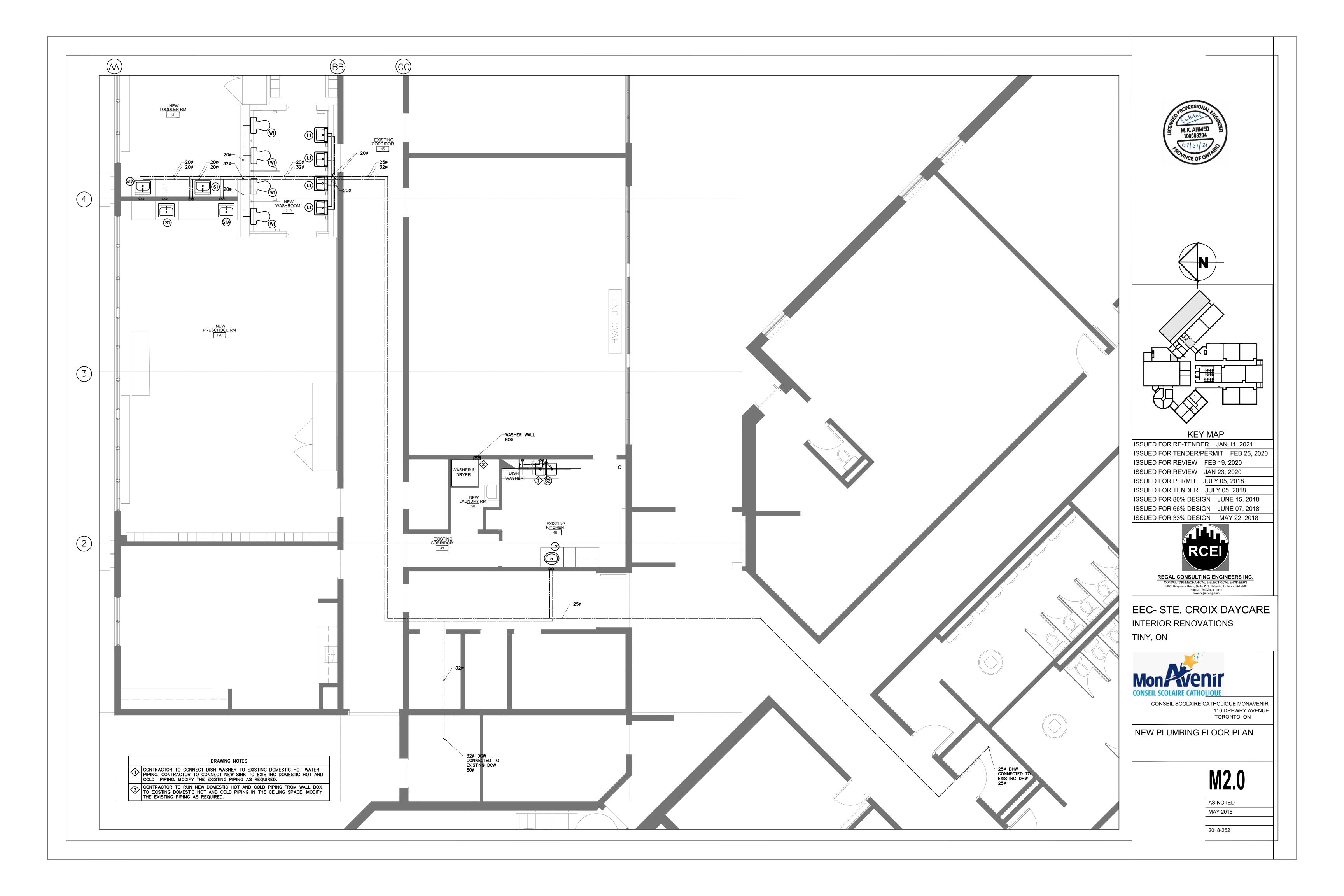
AS NOTED MAY 2018

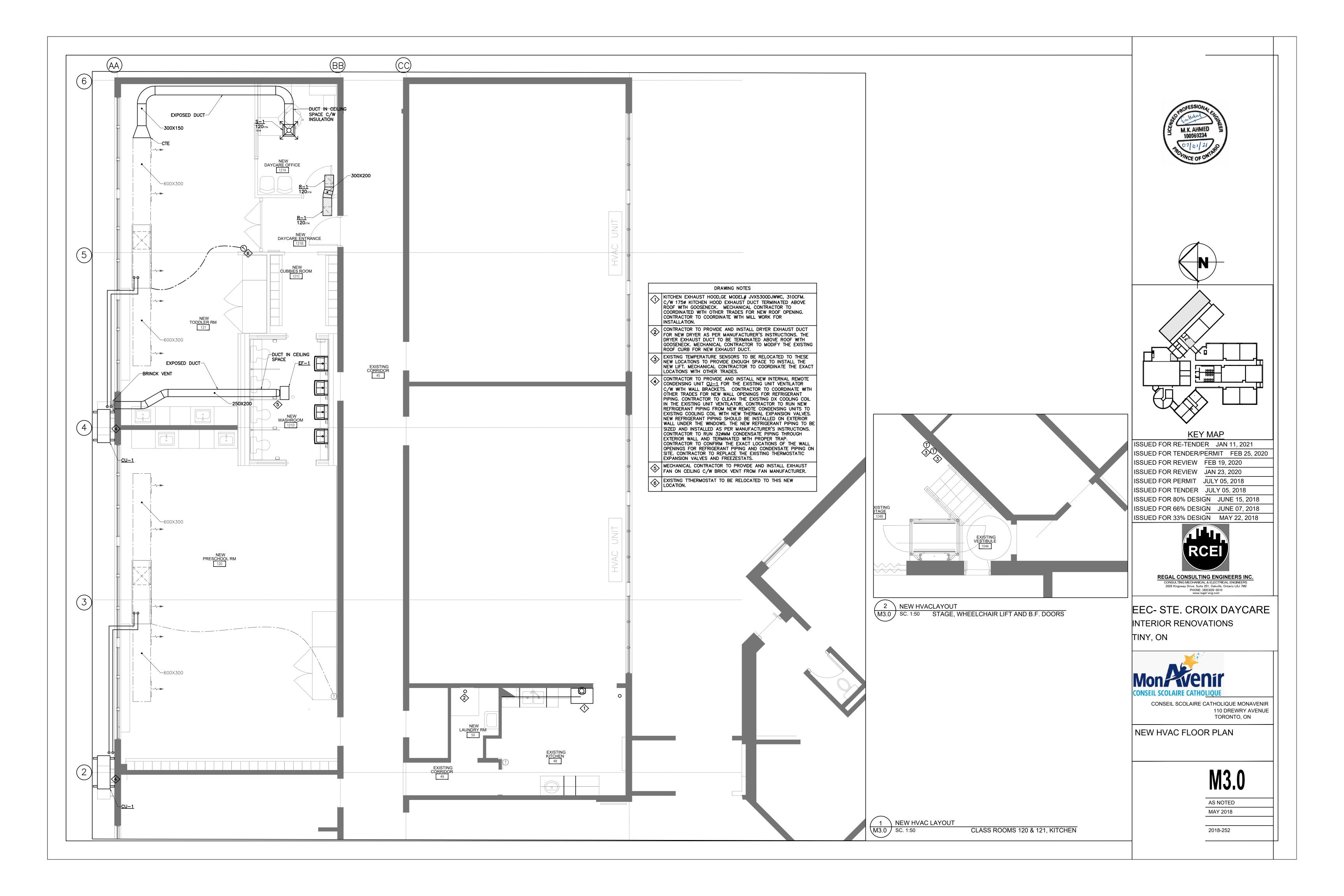


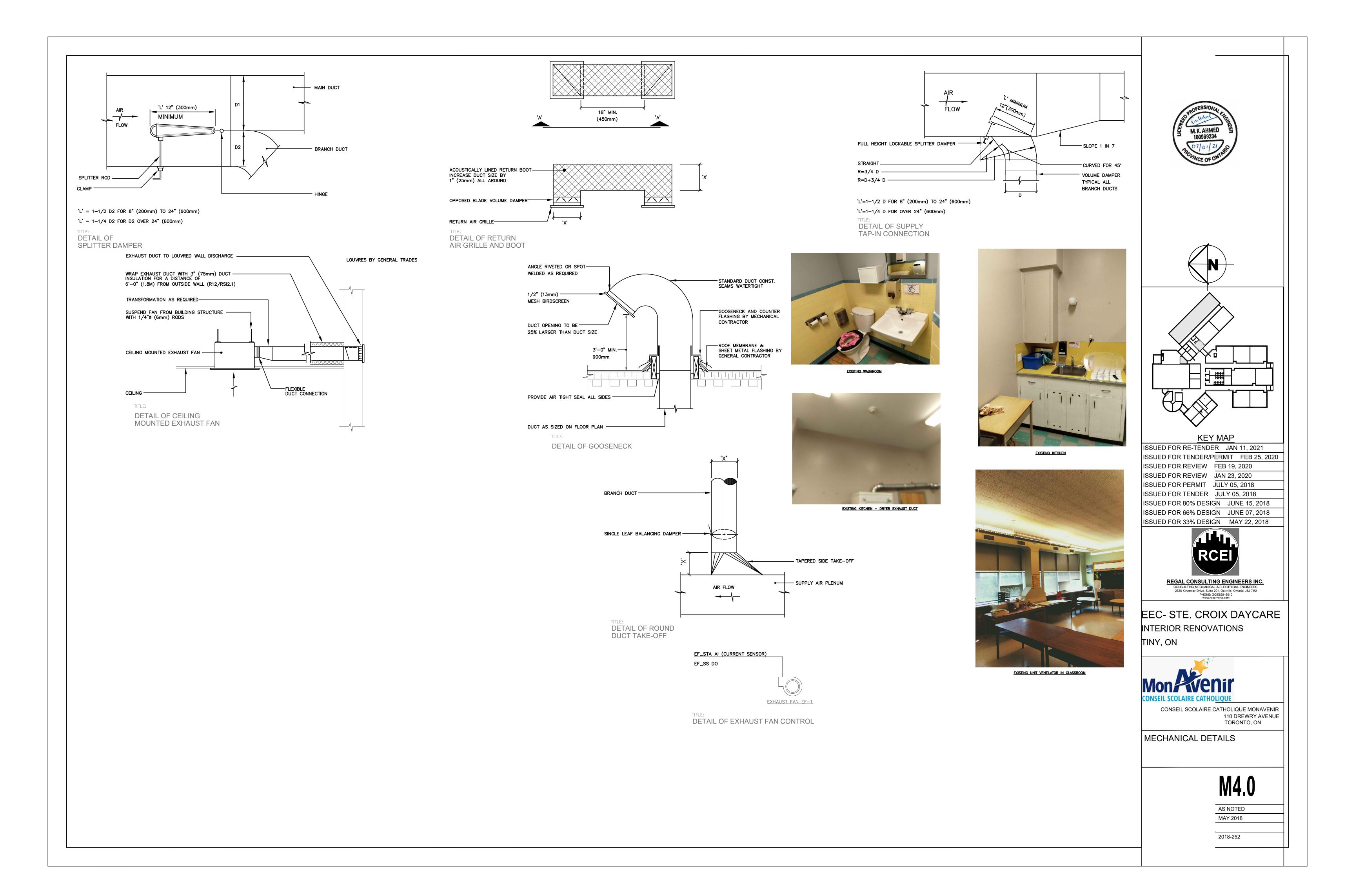












GENERAL SPECIFICATION

FROM THE BUILDING AND SITE.

- 1. WHEREVER THE TERM "INSTALL" IS USED IT MEANS INSTALL AND CONNECT
- 2. WHEREVER THE TERM "SUPPLY" IS USED IT MEANS SUPPLY ONLY.
- 3. WHERE THE TERM "PROVIDE" IS USED IN RELATION TO EQUIPMENT, ETC., IT MEANS "SUPPLY, INSTALL, CONNECT, AND COMMISSION 4. WHEREVER THE TERM "REMOVE" IS USED IT MEANS DISCONNECT AND DISPOSE

- 1. "N" NEW ITEM TO BE SUPPLIED AND INSTALLED.
- 2. "EX" EXISTING ITEM TO REMAIN. 3. "REL" RELOCATE EXISTING ITEM TO NEW LOCATION.
- 4. "REM" REMOVE EXITING ITEM.

- 1. THE DRAWINGS AND SPECIFICATIONS WILL BE READ WITH ARCHITECTURAL DRAWINGS. THE OWNER'S BUILDING REQUIREMENTS, THE LEGEND, AND SPECIFICATIONS OF THE DRAWING. MAXIMUM CONDITIONS WILL GOVERN. REVIEW MECHANICAL DRAWINGS AND PROVIDE POWER TO ALL MECHANICAL DEVICES
- WITH MAY BE ABSENT FROM THE ELECTRICAL DRAWINGS. 2. ACCURATE DIMENSIONS FOR THE WORK MUST BE OBTAINED FROM ARCHITECTURAL OR ACTUAL MEASUREMENT ON THE SITE.
- 3. VISIT THE SITE PRIOR TO TENDER AND VERIFY ALL CONDITIONS AND DIMENSIONS, INCLUDING LOCATIONS OF EXISTING CAPPED SERVICES, AND ALL FOR ANY REROUTING OF EXISTING AND/OR NEW SERVICES AND EQUIPMENT IN TENDER PRICE. FAILURE TO DO SO SHALL NOT RELIEVE THE CONTRACTOR FROM RESPONSIBILITY
- 4. REPORT TO THE ENGINEER ALL AMBIGUITIES, DISCREPANCIES, OMISSIONS, ERRORS, DEPARTURES FROM BUILDING BYLAWS AND/OR FROM GOOD PRACTICE
- PRIOR TO TENDER CLOSING. 5. PROVIDE ALL WORK IN ACCORDANCE WITH THE ONTARIO BUILDING CODE, AND
- THE REQUIREMENTS OF ALL GOVERNING AUTHORITIES, AND LOCAL BY-LAWS. 6. APPLY FOR, OBTAIN AND PAY FOR ALL PERMITS AND INSPECTIONS REQUIRED PRIOR TO COMMENCEMENTS OF CONSTRUCTION. INCLUDE ALL PROVINCIAL AND FEDERAL SALES TAXES.
- 7. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE APPROVED SCHEDULE TO MEET THE PROJECT COMPLETION DATE AND ALL SPECIFIED INTERIM
- 8. COMPLY WITH THE GENERAL CONTRACTOR'S CONSTRUCTION SCHEDULE.
- MAKE GOOD ALL DAMAGES TO ADJACENT WORK, PROVIDE ALL CUTTING. PATCHING, FLASHING WORK AND CLEAN-UP OF FLOORS, WALLS, CEILINGS, ETC. 10. PROVIDE PROPER SHOP DRAWINGS OF ALL SPECIFIED PRODUCTS AND SUBMIT
- FOR APPROVAL TO THE ARCHITECT AND ENGINEER. 11. DURING PROGRESS OF WORK, SUBSTITUTE PRODUCTS WILL ONLY BE CONSIDERED WHEN TENDERED PRODUCTS BECOME UNOBTAINABLE AND WRITTEN
- 12. THE QUALITY AND PERFORMANCE CHARACTERISTICS OF SUBSTITUTE PRODUCTS SHALL BE EQUAL TO THE SPECIFIED PRODUCTS. IMPLEMENTATION OF SUBSTITUTE PRODUCTS IS SUBJECT TO THE REVIEW OF PROPERLY SUBMITTED
- SHOP DRAWINGS TO THE ARCHITECT AND ENGINEER. 13. ASSUME RESPONSIBILITY AND PAY FOR ANY ADDITIONAL INSTALLATION COSTS INCURRED BY ALL DIVISIONS RESULTING FROM THE ALTERNATES AND/OR SUBSTITUTIONS. MAKE REVISIONS TO RECORD DRAWINGS INCORPORATING ALL
- ALTERNATES AND/OR SUBSTITUTIONS AND ALL RELATED CHANGES. 14. PROVIDE THE OWNER WITH A WRITHEN WARRANTY. FOR ALL LABOUR. MATERIALS, AND EQUIPMENT IN THIS CONTRACT, FOR A PERIOD OF ONE YEAR COMMENCING AT SUCH TIME AS THE OWNER, OR HIS REPRESENTATIVE, DEEMS
- THE WORK ACCEPTABLE 15. OBTAIN AND PAY FOR ONE (1) SET OF TRANSPARENCIES AND ONE (1) SET OF WHITE PRINTS. MARK PRINTS TO ACCURATELY INDICATE INSTALLED WORK AND TRANSFER ALL INFORMATION ONTO THE SET OF TRANSPARENCIES. UPON COMPLETION OF THE WORK SUBMIT THE COMPLETED RECORD DRAWINGS AND
- TRANSPARENCIES TO THE ENGINEER AND THE OWNER. 16. ASSEMBLE THREE (3) MANUALS, EACH CONTAINING DATA SHEETS, BROCHURES, OPERATING, MAINTENANCE, RECOMMENDED SPARE PARTS, AND LUBRICATING INSTRUCTIONS AND A COMPLETE SET OF REVIEWED SHOP DRAWINGS AND BIND IN HARD SECTIONS AND VOLUMES. PRESENT ONE (1) COPY FOR REVIEW BY CONSULTANT. MAKE ALL CORRECTIONS REQUESTED BY THE CONSULTANT AND RESUBMIT FOR REVIEW.
- 17. INCLUDE COST OF PREMIUM THE IN TENDER PRICE FOR WORK DURING NIGHTS, WEEKENDS OR OTHER TIME OUTSIDE NORMAL WORKING HOURS NECESSARY TO MAINTAIN ALL MECHANICAL SERVICES IN OPERATIONS, AND TO COMPLETE THE WORK SUBMISSION FOR EXTRA OR DELETED WORK.
- 18. PROVIDE A COMPLETE COST BREAKDOWN OF ALL MATERIALS, EQUIPMENTS AND LABOUR COSTS ASSOCIATED WITH EACH SUBMISSION FOR EXTRA OR DELETED
- 19. CONFER WITH ALL TRADES INSTALLING EQUIPMENT WHICH MAY AFFECT THE
- EQUIPMENT INSTALLED UNDER ALL DIVISIONS OF THE CONTRACT. 20. INSTALL ALL PIPING IN THE BEST WORKMANLIKE MANNER AND IN
- ACCORDANCE WITH THE BEST PRACTICES OF THE TRADES. 21. PROVIDE SLEEVES FOR ALL NEW PIPING THROUGH EXISTING SLAB, BEAMS, SLAB TO SLAB WALL ETC. WHERE INDICATED AND/OR REQUIRED. OBTAIN BASE BUILDING STRUCTURAL ENGINEER'S APPROVAL PRIOR TO COMMENCEMENT OF

MECHANICAL WORK AND ARRANGE THE WORK IN PROPER RELATION WITH

- 22. IDENTIFY EACH PIPED AND DUCTED SERVICE COMPLETE WITH DIRECTIONAL FLOW ARROWS. LOCATE IDENTIFICATION AND FLOW ARROWS NOT MORE THAN 12M (40') APART IN STRAIGHT RUNS OF PIES AND DUCTS. USE WORDING INDICATED ON THE MECHANICAL LEGEND. USE 50MM(2") HIGH STENCIL
- 23. ALL WALL AND FLOOR OPENINGS SHALL BE PACKED AND SEALED WITH AN APPROVED FIRE RESISTANT INSULATION TO 25MM (1") FROM END SIDE OF OPENING ON BOTH SIDES OF FLOOR OR WALL. REMAINING PORTION SHALL BE SEALED WITH AN APPROVED FIRE STOP SUBSTANCE EQUAL TO 'DOW CORNING
- #3-6548 SILICON RTV FOAM PENETRATION SEALANT. 24. ÎN ALL AREAS REQUIRING CORE DRILLING THROUGH EXISTING FLOOR SLAB FOR MECHANICAL SERVICES, ETC. ALLOW FOR ALL NECESSARY RADIOGRAPHY TO LOCATE HIDDEN ELECTRICAL SERVICES. STRUCTURAL REINFORCING. ETC., AND INCLUDE ALL COSTS IN TENDER PRICE. CO-ORDINATE THIS WORK WITH OWNER CCOOORDINATOR FOR TIME DURATION AND LOCATION REQUIRED AND ADHERE TO THE OWNER'S REQUIREMENTS. SUBMIT CORE DRILLING PLAN TO THE STRUCTURAL ENGINEER FOR APPROVAL PRIOR TO COMMENCEMENT OF WORK.
- 25. CHECK AND VERIFY LOCATION OF EXISTING MECHANICAL AND ELECTRICAL INTERFERENCES IN CEILING SPACE OF FLOOR BELOW AND OR BELOW FLOOR SLAB IN ALL AREAS REQUIRING COR DRILLING AND/OR CUTTING OF FLOOR SLAB ON GRADE AND ENSURE COMPATIBILITY OF AREA BELOW TO THE SATISFACTION OF THE OWNER.
- 26. ALL SHUTDOWNS OF ANY PORTION OF THE EXISTING BASE BUILDING SYSTEMS SHALL BE PERFORMED BY THE OWNER'S BUILDING OPERATIONS STAFF AND/OR COOOORDINATED WITH THE OWNER FOR TIME AND DURATION OF INTERRUPTIONS AND ADHERE TO THE OWNER'S INSTRUCTIONS IN THE REGARD. COST FOR SHUTDOWNS, DRAINING AD REFILLING OF BASE BUILDING SYSTEMS SHALL BE INCLUDED IN THE TENDER PRICE.
- 27. PROVIDE ALL ACCESS DOORS WHERE SHOWN AND/OR REQUIRED BY SITE CONDITIONS. IN CEILINGS OR WALLS. ACCESS DOORS SHALL BE EQUAL TO MILCOR OR LEHAAGE, AND MUST BE COMPATIBLE WITH CEILING/WALL TYPE AND FINISH INSTALLATION TO COMPLY WITH THE ARCHITECT'S APPROVAL. ACCESS DOORS IN RATED CEILINGS OR WALLS SHALL BE ULC APPROVED FOR THE APPLICATION.
- 28. RE-USE EXITING MATERIALS AND EQUIPMENT WHEREVER POSSIBLE AND PROVIDE NEW ONLY WHERE REQUIRED AND AS SPECIFIED TO ENSURE A COMPLETE INSTALLATION. ALL EQUIPMENT, MATERIALS AND ASSOCIATED CONTROLS NOT USED IN THIS CONTACT SHALL BE RETURNED TO OWNER. 29. CHECK AND VERIFY ON SITE FOR ROUTING OF NEW DUCT WORK, PIPING AND
- LOCATION OF NEW EQUIPMENT AND INCLUDE IN TENDER PRICE FOR ANY RELOCATIONS OF EXITING SERVICES OR ADJUSTMENTS OF NEW SERVICES OF EQUIPMENTS AS REQUIRED TO SUIT SITE CONDITIONS. PROVIDE OFFSETS IN PIPING AND CUT WORK AS REQUIRED TO AVOID INTERFERENCES.
- 30. SEAL AIR TIGHT ALL AROUND DUCT WORK AND PIPING PENETRATIONS THROUGH PARTITIONS ABOVE CEILING WITH APPROVED SEALANT FOR FIRE RATED
- 31. ALL DEFICIENCIES MUST BE COMPLETE WITH 4 WEEKS UPON NOTICE ISSUED BY THE ENGINEER. THE ENGINEER MAY HAVE THE DEFICIENCIES COMPLETED BY OTHERS AT THE CONTRACTOR'S EXPENSE, IF THE DEFICIENCIES ARE NOT
- 32. ALL ELECTRIC BASEBOARD AND FORCED FLOW HEATER SHALL BE SUPPLIED AND INSTALLED BY THE ELECTRICAL CONTRACTOR. ALL ELECTRIC DUCT HEATERS ARE SUPPLIED AND INSTALLED BY THE MECHANICAL CONTRACTOR, BUT WIRED BY ELECTRICAL.

GENERAL MECHANICAL SPECIFICATION

- 1. DIVISION 15 SHALL FURNISH ALL LABOUR, MATERIALS AND EQUIPMENT NECESSARY FOR THE PROPER AND TIMELY COMPLETION OF THE MECHANICAL SYSTEMS AS SHOWN ON THE DRAWINGS AND/OR AS SPECIFIED.
- 2. THE SPECIFICATIONS SHALL BE CONSIDERED AS AN INTEGRAL PART OF THE PLANS WHICH ACCOMPANY THEM, NEITHER THE PLANS NOR THE SPECIFICATIONS SHALL BE USED ALONE. ANY ITEMS OR SUBJECT OMITLED FROM ONE, BUT WHICH IS MENTIONED OR REASONABLY IMPLIED IN THE OTHER, SHALL BE CONSIDERED AS PROPERLY AND SUFFICIENTLY SPECIFIED, AND MUST, THEREFORE. BE PROVIDED. MISINTERPRETATIONS OF EITHER THE PLANS OR THE SPECIFICATIONS SHALL NOT RELIEVE THIS DIVISION OF RESPONSIBILITY.
- 3. IT IS THE INTENT THAT THE DRAWINGS AND SPECIFICATIONS DESCRIBE COMPLETE MECHANICAL SYSTEMS. ALL MATERIALS AND EQUIPMENT AND THE FURNISHING OF ALL LABOUR REASONABLY IMPLIED BY THESE DRAWINGS AND/OR THE SPECIFICATIONS SHALL BE INCLUDED TO PROVIDE SYSTEMS READY FOR SATISFACTORY OPERATION. REFER TO ALL OTHER TRADE DRAWINGS AND SPECIFICATIONS TO FULLY CO-ORDINALE THE INSTALLATION OF THE

STANDARD OF ACCEPTANCE

- THE ITEM NAMED AND SPECIFIED BY MODEL OR CATALOGUE NUMBER FORMS PART OF SPECIFICATION AND SETS THE STANDARD REGARDING PERFORMANCE, QUALITY OF MATERIAL AND WORKMANSHIP
- 2. TENDER PRICES SHALL BE BASED ON THE SPECIFIED EQUIPMENT LISTED AS ACCEPTABLE PRODUCT OR AS BASE BID. ALL ALTERNATES OF LISTED EQUIPMENT MUST BE LISTED SEPARATELY ON THE TENDER FORM WITH COST SAVINGS. THE OWNERS AND THE CONSULTANT HAVE THE OPTION OF ACCEPTING OR REJECTING AL1ERNA1E EQUIPMENT.
- 3. THE USE OF ALIERNAIE EQUIPMENT SUCH AS HEATING / COOLING UNITS, FANS, COMPRESSOR/CHILLER UNITS WILL REQUIRE THE SUBMISSION OF DETAILED SCALE SHOP DRAWINGS OF PROPOSED INSTALLATION DETAILS INCLUDING DUCTWORK, PIPING, ELECTRICAL. STRUCTURAL CONNECTIONS. LOADS AND SERVICE CLEARANCES.

CODES, REGULATIONS AND PERMITS

- 1. ALL MECHANICAL WORK SHALL BE INSTALLED, INSPECTED AND 1ES1ED IN ACCORDANCE WITH GOVERNING CODES, RULES AND REGULATIONS OF THE MUNICIPALITY IN WHICH THE WORK IS PERFORMED AND ALSO OF PROVINCIAL AND FEDERAL AUTHORITIES HAVING JURISDICTION.
- 2. THE DIVISION 15 CONTRACTOR SHALL OBTAIN ALL PERMITS REQUIRED FOR THE INSTALLATION OF MECHANICAL WORK, ARRANGE FOR INSPECTIONS AND TESTS AND PAY ALL FEES AND COSTS FOR THE PERMITS AND INSPECTIONS. ALL NECESSARY PERMITS SHALL BE OBTAINED IMMEDIATELY AFTER NOTIFICATION OF AWARD OF CONTRACT
- THE ONTARIO BUILDING CODE AND THE APPLICABLE REQUIREMENTS OF C.S.A., A.S. T.M. ANSI, U.L.C .. AND NFPA STANDARDS INCLUDING THEIR LATER AMENDMENTS, AS WELL AS PROVINCIAL AND MUNICIPAL BY-LAWS AND REGULATIONS SHALL BE CONSIDERED PART OF THIS SPECIFICATION. LACK OF POSSESSION OF KNOWLEDGE OF ANY CODE OR STANDARD REQUIRED FOR PROPER COMPLETION OF THE WORK SHALL NOT CONSTITUTE SUFFICIENT REASON FOR DEVIATION THEREFROM.

1. CLEARLY RECORD ALL CONTRACT CHANGES AND DEVIATIONS FROM THE CONTRACT DRAWINGS ON A SET OF DRAWINGS AVAILABLE FROM THE GENERAL CONTRACTOR FOR THIS PURPOSE AND FORWARDED TO THE GENERAL CONTRACTOR AT THE COMPLETION OF THE PROJECT.

THIS CONTRACTOR SHALL VISIT THE SITE AND EVALUATE ALL EXISTING SITE CONDITIONS AS THEY MAY AFFECT THIS WORK. NO EXTRAS WILL BE ALLOWED FOR ANY EFFECTS FROM FAILING TO COMPLETE A COMPREHENSIVE SITE TOUR TO UNDERSTAND AND ACCOUNT FOR THE IMPACT OF EXISTING SITE CONDITIONS ON THE CONTRACT SCOPE OF WORK.

CUTTING AND PATCHING

THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR AND PAY FOR ALL CUTTING AND PATCHING REQUIRED IN THE SCOPE OF WORK AS DEFINED IN THE GENERAL CONDITIONS. ALL NEW FINISHES SHALL BE EQUAL TO THOSE OF SURROUNDING SURFACES FOR MATERIALS. COLOUR, TEXTURE AND WORKMANSHIP THIS DIVISION SHALL CLEARLY MARK OUT ALL OPENINGS REQUIRED AND REVIEW WITH THE GENERAL CONTRACTOR BEFORE CUTTING PROCEEDS. THIS DIVISION SHALL INSTALL ALL OPENING FRAMES, SLEEVES, DUCTWORK AND PIPING, LOUVRES, ETC., INTO THE BUILDING STRUCTURE AS CONSTRUCTION PROGRESSES. ANY ITEMS MISSED DURING CONSTRUCTION THAT MUST BE ADDED WILL BE THE RESPONSIBILITY OF THIS DIVISION AND BE CO-ORDINATED WITH THE GENERAL TIRADES.

CO-ORDINATION

- 1. CONFER AND COOPERATE WITH OTHER TIRADES IN ORDER TO ELIMINATE ANY UNNECESSARY DELAYS TO THE CONSTRUCTION SCHEDULE. WHERE DOUBT EXISTS REGARDING OTHER TIRADES. CONFER WITH THE SUPERINTENDENT WITHOUT DELAY FOR DETAILED INSTRUCTIONS CONCERNING HOW TO PROCEED WITH THE WORK. EXPEDITE DELIVERY OF ALL EQUIPMENT AND MATERIALS TO MEET CONSTRUCTION SCHEDULE.
- 2. ANY INTERFERENCE ISSUES THAT ARISE SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO DUCTWORK FABRICATION.

1. ENSURE THAT ALL EQUIPMENT AND SYSTEMS ARE OPERABLE AND SAFE FOR NORMAL OPERATION. ALL TESTING, ADJUSTING, BALANCING WORK AND RECORD KEEPING SHALL BE PERFORMED PRIOR TO COMMISSIONING. OPERATIONAL TESTS ON EQUIPMENT, DUCTWORK, PIPING AND CONTROL SYSTEMS SHALL BE PERFORMED PRIOR TO COMMISSIONING TO VERIFY THAT PRESSURE AND FLOW RATES MEET DESIGN REQUIREMENTS.

INTERRUPTION AND DEMOLITION OF EXISTING SERVICES

- 1. ARRANGE, SCHEDULE AND PERFORM WORK WITH MINIMUM DISTURBANCE TO EXISTING FACILITIES AND SERVICES.
- 2. SUBMIT A COMPLETE SCHEDULE OF SERVICE INTERRUPTIONS AND CHANGEOVERS WITH APPROXIMATE DATES REQUIRED. DURATIONS AND TIMES OF DAY. FOR APPROVAL BEFORE PROCEEDING.

SHOP DRAWINGS

- SHOP DRAWINGS AND DATA SHEETS FOR EQUIPMENT INTENDED FOR INSTALLATION UNDER THIS CONTRACT SHALL BE SUBMITTED FOR REVIEW. AFTER CHECKING AND WHEN REVIEWED, COPIES WILL BE RETURNED TO THE
- 2. SAMPLES, DRAWINGS, CATALOGUES, SPECIFICATIONS, ETC. SUBMITTED FOR APPROVAL, SHALL BE PROPERLY LABELLED INDICATING SPECIFIED SERVICES FOR WHICH MATERIAL OR EQUIPMENT IS TO BE USED. THE DRAWINGS AND INFORMATION SHALL INDICATE THE PROJECT NAME AND THE ARTICLE NUMBER
- 3. OF SPECIFICATIONS RELATING TO SHOP DRAWINGS. THE CONTRACTOR'S NAME AND CONTRACTOR'S SIGNAL\JRE SHALL APPEAR ON ALL COPIES INDICATING THAT THE DRAWINGS HAVE BEEN CHECKED BY THE CONTRACTOR. DRAWINGS NOT SO DESIGNATED WILL BE RETURNED FOR CORRECTION. 'FAX' OR ELECTRONIC COPIES OF SHOP DRAWINGS ARE NOT ACCEPTABLE. PROVIDE COMPLETE, DETAILED WIRING AND CONTROL DIAGRAMS FOR ALL MECHANICAL EQUIPMENT FOR THIS PROJECT. THESE DRAWINGS SHALL BE SUBMITTED AT THE TIME OF SHOP DRAWING REVIEW. EQUIPMENT SHOP DRAWINGS WILL BE REJECTED UNLESS COMPLETE WIRING AND CONTROLS INFORMATION IS
- 4. SUBMIT 8 HARD COPIES OF ALL SHOP DRAWINGS. TLQ ELECTRONIC

SUBMISSIONS WILL BE REVIEWED.

ARRANGEMENT OF PIPING AND DUCTWORK

- 1. CONCEAL PIPING AND DUCTWORK WHEREVER POSSIBLE BY RUNNING IT IN PIPE SPACES, DUCT SHAFTS, CHASES. CEILING SPACES AND FURRED OUT SECTIONS OF WALLS AND COLUMNS. DO NOT RUN PIPING OR DUCTWORK EXPOSED IN FINISHED AREAS WITHOUT OBTAINING PERMISSION OF THE ENGINEER.
- 2. PIPING OR OTHER EQUIPMENT OR DEVICES IN RETURN AIR PLENUMS SHALL HAVE FLAME SPREAD AND SMOKE DEVELOPMENT RATINGS FOR THAT APPLICATION.

- DIVISION 15 SHALL PERFORM TESTS ON ALL PIPING AND EQUIPMENT SYSTEMS AS EQUIPMENT IN VARIOUS SECTIONS OF THESE SPECIFICATIONS AND SHALL PROVIDE ALL NECESSARY PUMPS, COMPRESSORS, GAUGES, RECORDERS AND TEMPORARY CONNECTIONS TO THE PIPING AND EQUIPMENT.
- 2. ALL TESTS ON PIPING AND EQUIPMENT SHALL BE CONDUCTED BEFORE CONCEALMENT AND BEFORE THE APPLICATION OF PAINT AND INSULATION. AMPLE NOTICE OF THE SCHEDULING OF SUCH TESTS SHALL BE GIVEN. TESTS SHALL BE CONDUCTED IN THE PRESENCE OF THE AUTHORITIES HAVING

ACCESS DOOR

 SUPPLY ACCESS DOORS FOR FURRED CEILINGS OR SPACES FOR SERVICING EQUIPMENT AND DUCT ACCESSORIES OR FOR INSPECTION OF LIFE SAFETY OR OPERATING DEVICES. SUPPLY STAINLESS STEEL ACCESS DOORS FOR TILED, MARBLE, TERRAZZO OR SPECIAL SURFACES. STANDARD OF ACCEPTANCE: ZURN, ACUDOR, ANCON.

MAINTENANCE INSTRUCTIONS

1. SUPPLY CERTIFIED PERSONNEL TO INSTRUCT OWNERS OPERATING STAFF ON OPERATION OF MECHANICAL EQUIPMENT. SUPPLY MAINTENANCE SPECIALIST PERSONNEL TO INSTRUCT OPERATING STAFF ON MAINTENANCE AND ADJUSTMENT OF MECHANICAL EQUIPMENT AND ANY CHANGES OR MODIFICATIONS IN EQUIPMENT MADE UNDER THE TERMS OF THE GUARANTEE. PROVIDE INSTRUCTION TO OWNERS STAFF DURING REGULAR WORK HOURS PRIOR TO ACCEPTANCE OF THE SYSTEMS FOR REGULAR OPERATION.

BUILDING STRUCTURE

- 1. INITIATE NO DRILLING, CUTTING OR WELDING OF THE BUILDING STEEL OR CONCRETE CONSTRUCTION FOR THE PURPOSE OF SUPPORTING MATERIALS OR EQUIPMENT WITHOUT PRIOR APPROVAL OF THE PRIME CONSULTANT.
- 2. HANGERS TO STEEL SHALL BE BEAM CLAMPS OR FLANGE HANGERS WHERE POSSIBLE. WHERE ATTACHMENT IS PERMITTED, WELDING STUDS OF A SIZE NOT LARGER THAN 13MM DIAMETER MAY BE USED. IF LARGER SIZE BOLTS ARE REQUIRED TO SUPPORT THE EQUIPMENT, THESE SHALL BE ATTACHED BY STEEL CUPS OR BRACKETS, SECURED TO THE BUILDING STEEL BY WELDING OR BOLTING AS APPROVED BY THE ENGINEER.

PIPING AND EQUIPMENT IDENTIFICATION

- 1. IDENTIFY ALL PIPING SYSTEMS. INDICATE PIPE SIZE, SERVICE AND DIRECTION
- THE LETTERING SHALL BE PROPORTIONAL TO THE OUTSIDE DIAMETER OF THE PIPE OR COVERING RANGING FROM 13 MM HIGH TO 20 MM O.D., PIPE OR COVERING UP TO 100 MM HIGH ON 300 MM O.D. PIPE OR COVERING. BRADLEY PIPE TAGS SHALL BE THE STANDARD OF LABELS. PIPES SMALLER THAN 20 MM O.D. PIPE OR COVERING MAY BE BANDED WITH COLOURED PLASTIC TAPE IN LIEU OF PAINT AND THE CONTENTS IDENTIFIED BY MEANS OF "DYMO" EMBOSSED PLASTIC LABELS. STENCIL A DIRECTION-OF-FLOW ARROW ON EACH COLOUR BAND. PIPE IDENTIFICATION SHALL BE APPLIED AT EACH HORIZONTAL OR VERTICAL CHANGE IN DIRECTION AND A MAXIMUM OF 12 M. APART.
- ALL EQUIPMENT SHALL BE IDENTIFIED WITH 25 MM HIGH LETTERS IN LAMACOID ENGRAVED SELF ADHESIVE NAMEPLATES.

FIRE SEPARATION

- SUPPLY AND INSTALL ALL FIRE DAMPERS AND FIRE STOP FLAPS C/W FUSIBLE LINKS AND ACCESS PLATES AS REQUIRED UNDER THE ONTARIO BUILDING CODE. DAMPERS SHALL BE TYPE 'B', 100LL FREE AREA UNLESS NOTED AND BE U.L.C. LISTED FOR THE SPECIFIC APPLICATION AND INSTALLATION ORIENTATION.
- 2. INSTALL FIRE DAMPERS IN ACCORDANCE WITH NFPA 90A AND ULC STANDARDS WITH BACKUP ANGLES AND BREAKAWAY JOINTS. PROVIDE DUCT ACCESS DOORS AS WELL AS DRYWALL ACCESS DOORS FOR COMPLETE ACCESSIBILITY.
- THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE LOCATIONS OF ALL FIRE RATED SEPARATIONS APPARENT FROM MECHANICAL OR ARCHITECTURAL

GRILLES AND DIFFUSERS

4. GRILLES, REGISTERS AND DIFFUSERS SHALL BE THE PRODUCT OF ONE MANUFACTURER FOR GENERIC TYPE, EG. GRILLES AND REGISTERS BY ONE, DIFFUSERS BY ONE, OR SAME. REFER TO THE SCHEDULE ON THE DRAWINGS;

H.V.A.C & DUCT WORK

- 1. ALL DUCT WORK AND HANGERS SHALL BE FABRICATED IN ACCORDANCE WITH THE LATEST ASHRAE AND SMACNA RECOMMENDATIONS. PAINT MATTE BLACK ALL DUCTS WHICH ARE VISIBLE THROUGH GRILLES. NOTE THAT DIMENSIONS ON DRAWINGS ARE CLEAR INSIDE DIMENSIONS. WHEN
- ACOUSTIC INSULATION IS INSTALLED. INCREASE DIMENSIONS ACCORDINGLY. 4. MAKE GOOD ALL EXCISING INSULATION WHEN CONNECTION TO EXISTING SFRVICES. 5. PROVIDE DUCT ACCESS DOORS, MINIMUM 375 MM X 300 MM (15" X 12") SIZE FOR EQUIPMENT SUCH AS COILS (BOTH SIDES OF COIL), FIRE AND/OR SMOKE
- DAMPERS, CONTROL AND/OR BALANCING DAMPERS, HEAT AND/OR BALANCING DAMPERS, HEAT AND/OR SMOKE DETECTORS, BACK-DRAFT DAMPERS, ETS. AS REQUIRED FOR PROPER SERVICING. 6. FLEXIBLE DUCTS SHALL BE FLEXMSTER OR APPROVED EQUAL, TRIPLE LOCK
- ALUMINUM FLEXIBLE DUCTS, SPIRAL WOUND ALUMINUM STRIP WITH TRIPLE MECHANICAL LOCK SEAM. DUCTS SHALL CONFORM TO NFPA-80A AND UL-181 FLEXIBLE DUCTS SHALL BE OF SIZE EQUAL TO DIFFUSER NECK SIZE. USE GEAR CLAMPS FOR SECURING FLEXIBLE DUCTS TO RIGID DUCT CONNECTIONS SUCH AS SPIN-ON FITTING, ETC. AND NECKS OF DIFFUSERS AND SEAL AIR TIGHT WITH DUCT TAPE. ROUND FLEXIBLE DUCTS SHALL BE MAXIMUM 2.4M (8'-0")
- LONG AND REMAINDER SHALL BE ROUND RIGID DUCT. 8. FINAL LOCATION OF NEW SUPPLY AIR DIFFUSERS, BOOTS, LIGHT PROFFERS, REGISTERS. RETURN AND EXHAUST AIR GRILLES SHALL BE COORDINATED WITH THE LATEST ARCHITECTURAL REFLECTED CEILING PLANS.

RELOCATED AND REUSE EXISTING DIFFUSERS, AND GRILLES AS INDICATED ON

PLAN. PROVIDE NEW DUCT WORK ONLY IF NECESSARY AND REUSED EXISTING WHEREVER POSSIBLE AND WHERE CONDITIONS PERMIT. 10. PROVIDE FIRE DAMPERS WHERE SHOWN ON DRAWING AND/OR WHERE REEQUIPPED BY LOCAL AUTHORITIES AND/OR APPLICABLE CODES IN DUCT

SECTIONS COMPLETE WITH APPROVED ACCESS DOORS.

11. FIRE DAMPERS SHALL BE ULC LABELED, FABRICATED AND INSTALLED IN DUCT SLEEVE IN ACCORDANCE WITH NFPA-90A, CUA-90-1 AND APPROVAL OF ALL AUTHORITIES HAVING JURISDICTION. 12. PROVIDE NEW BALANCING DAMPERS FOR ALL NEW AND EXCISING DUCT

BRANCHES, AND IN ALL LOCATIONS NECESSARY FOR BALANCING THE AIR

SYSTEMS, WITH SUITABLE MEANS OF CEILING ACCESS. PROVIDE VOLUME

- DAMPERS FOR ALL NEW SUPPLY AIR DIFFUSERS AND REGISTERS. 13. TEST, BALANCE, AND ADJUST ALL AIR SYSTEM TO OBTAIN THE DESIGN AIR QUANTITIES, SPECIFIED FLOW RATES AND TEMPERATURE RISES/DROPS ACROSS TERMINAL HEATING/COOLING ELEMENTS. COILS AND HEAT EXCHANGER INDICATED ON PLANS. BALANCING VALVES AND BALANCE FITTINGS. SUBMIT AIR SYSTEM TEST AND BALNCE REPORT TO THE ENGINEER AND OWNER IN AREAS WITH DRYWALL CEILINGS, THIS WROK SHALL BE DOWN PRIOR TO ENCLOSING OF CEILING SPACE.
- 14. PROVIDE ALL CONTROLS, WIRING AND APPURTENANCES NECESSARY FOR COMPLETE AND OPERATING SYSTEMS.
- 15. CALIBRATE AS REQUIRED, EXISTING THERMOSTATS NOTED TO BE REUSED OR RELOCATED AND SUBMIT WRITTEN REPORT TO ENGINEER. 16. UNLESS OTHERWISE NOTED, DUCT WORK SHEET METAL TO BE AS FOLLOWS: LONGEST SIDE US GAUGE LONGEST SIDE US GAUGE UP TO 12" 31" TO 56" 22 13" TO 30" 58" TO 84" PITTSBURGH SEAMS SHALL BE USED ON LONGITUDINAL JOINTS AND HAMMER

SEAMS TO MAKE AIR TIGHT. CROSS BREAK AL SHARP 90 DEGREE ELBOW.

- 17. ALL RADIUS ELBOWS MUST BE AT LEAST 1-1/2 TIMES THE WIDTH OF THE
- DUCT, OR PROVIDE TURNING VANES IN A SHARP 90 DEGREE ELBOW. 18. THE SUPPLY AND RETURN DUCT WORK 10'-0" FROM THE AIR HANDLING UNIT SHALL BE LINED WITH 1" ACOUSTIC FIBREGLASS INSULATION AND NEOPRENE COATED. THE DUCT SIZES ON THE DRAWINGS ARE INTERNAL, INCREASE THE
- DUCT SIZE TO SUIT THE INSULATION. 19. CEILING SPACE USED AS RETURN AIR PLENUM SHALL NOT CONTAIN ANY COMBUSTIBLES.
- 20. DUCT WORK MUST BE INDEPENDENTLY SUPPORTED FROM THE BUILDING
- 21. FLEXIBLE DUCTS SHALL BE ALUMINUM TYPE AND MUST NOT EXCEED 8 LINEAR FEET LONG. CLAMPS OR SCREWS MUST BE USED WHERE FLEX ARE SECURED TO RIGID DUCTS. DUCT TAPES ALONE ARE NOT PERMITTED.
- 22. PROVIDE DUCT PLENUM FOR ALL ROOF MOUNTED EXHAUST FANS, AND THE PLENUM SHALL BE INSULATED WITH 1" FIBREGLASS TO PREVENT
- CONDENSATION. 23. ALL EXISTING DUCT WORK SHOULD BE CLEANED OF ALL DIRT.

DUCT WORK INSULATION

- ALL INSTALLATION SHALL BE IN ACCORDANCE TO ASHRAE GUIDELINES. 2. PROVIDE 25MM (1") THICK ACOUSTIC INSULATION FOR NEW SUPPLY, RETURN OR EXHAUST DUCTWORK 10'-0" FROM AIR HANDLING UNIT, 24.03 kg/m3 (1.5 Ib/cu.ft. DENSITY NEOPRENE FACE) INTERNAL FIBERGLASS INSULATION. REMAINDER OF RIGID SUPPLY AIR DUCTWORK SHALL BE THERMALLY INSULATED.
- 3. NOTE THAT DIMENSIONS ON DRAWINGS ARE CLEAR INSIDE DIMENSIONS. WHEN ACOUSTIC INSULATION IS INSTALLED. INCREASE DIMENSIONS ACCORDINGLY. 4. INSULATE ALL NEW SUPPLY AIR RIGID DUCTWORK UP TO 750MM (30") WIDE OR DIAMETER WITH 25MM (1") THICK FLEXIBLE GLASS FIBRE DUCT INSULATION, 18.42 kg/m³ (1.5 lb/cu.ft) DENSITY WITH FIRE RESISTIVE GLASS FIBRE REINFORCED THICK GLASS FIBRE DUCT INSULATION 48.06 kg/m³ (3lb/cu.ft.)
- ALUMINUM FOIL VAPOUR BARRIER 5. FOR EXTERIOR INSULATION. PROVIDE 2" THERMAL INSULATION ONT THE EXTERIOR AND 1" ACOUSTIC LINING. ALL SPECIFIED TO CONFORM TO THE

DENSITY WITH FIRE RESISTIVE GLASS FIBRE REINFORCED KRAFT PAPER AND

1. FINAL LOCATIONS OF AL THERMOSTATS SHALL BE CO=-ORDINATED WITH ARCHITECT AND GENERAL CONTRACTOR TO SUIT FURNITURE LAYOUT AND TO AVOID INTERFERENCES WITH OTHER DEVICES. DISCONNECT AND RELOCATE EXISTING THERMOSTATS OUTWARD AS REQUIRED TO SUIT THE REFINISHING OF EXISTING WALL.

- 1. THE CONTRACTOR MUST ENSURE THAT ALL EQUIPMENT ARE COMPLETE WITH ALL NECESSARY CONTROLS TO PROVIDE COMPLETE OPERATIONAL SYSTEMS. 2. THE MECHANICAL CONTRACTOR SHALL PROVIDE ALL CONTROLS AND WIRING TO
- SUPPORTS SHALL BE FROM THE BUILDING STRUCTURE. 3. SUBMIT 2 SETS OF OPERATING MANUALS OF ALL EQUIPMENT TO THE
- THE CONTRACTOR MUST INCLUDE THE STARTUP, COMMISSIONING AND AIR BALANCING IN HIS PRICE. SUBMIT TESTING AND BALANCING REPORTS THE THE ENGINEER PRIOR TOT HEN HOLDBACKS BEING RELEASED.
- 5. SUBMIT A CERTIFICATE TO PROVE THAT ALL EQUIPMENT ARE CLEANED. LUBRICATED AND TESTED. ALL GAUGES AND INSTRUMENTS MUST BE CALIBRATED PRIOR TO START-UP.
- 6. ALL PIPING MUST BE PRESSURE TESTED TO 150% OF DESIGN CONDITIONS. PROVIDE A CERTIFICATE TO THE ENGINEER. THE AIR BALANCING SUBCONTRACTOR MUST BE APPROVED BY THE ENGINEER
- PRIOR TO THE ACTUAL WORK BEING DONE. CORRECT ALL DEFICIENCIES NOTED BY THE BALANCING CONTRACTOR. 8. ALL NEW OR RE-USED, RE-INSTALLED EQUIPMENT MUST BE CLEANED, LUBRICATED, AND TESTED. THEN WORK IS TO BE DOWN BY QUALIFIED AND

CERTIFIED TECHNICIAN. PROVIDE A CERTIFICATE TO THE ENGINEER STATING

PIPE SYSTEMS

ALL PIPING SYSTEMS SHALL BE INSTALLED IN ACCORDANCE WITH THE ANSL/ASME B31-1, UNLESS OTHERWISE SPECIFIED HEREIN. PROVIDE INSERT5, SLEEVES AND ANCHORS WHERE NECESSARY AND COORDINATE 1E WITH OTHER TIRADES TO THE FULLEST EXTENT IN THE PROVISION OF OPENINGS, CHASES, ETC. TO

ACCOMMODATE 1E THE PIPING SYSTEMS.

COMPLETION OF THE WORK.

- PIPE GRADES AND SLOPES 1. DRAINS AND WASTE PIPING SHALL SLOPE DOWN IN THE DIRECTION OF FLOW THE RATE OF 2:11 PER FOOT FOR BO SIZE AND UNDER AND 1111 PER FOOT FOR 100 SIZE AND LARGER, WHERE SLOPES FOR PIPING SERVICES INDICATED HEREIN ARE LESS THAN THOSE ESTABLISHED BY APPLICABLE CODES AND REGULATIONS, THE LATTER SHALL GOVERN.
- 2. ALL WATER SUPPLY PIPING SHALL BE GRADED SO THAT THE SYSTEM MAY BE Completely DRAINED THROUGH RISERS, DRIPS AND FIXTURES, FOR THIS PURPOSE, DRAIN COCKS SHALL BE PROVIDED AT ALL LOW POINTS OF THE SYSTEM. DOMESTIC HOT AND COLD WATER PIPING SHALL GRADE UP IN THE DIRECTION OF FLOW AT THE RATE OF 2% CIRCULATION PIPING SHALL GRADE

DOWN IN THE DIRECTION OF FLOW AT 2%.

- PIPE EXTENSION AND CONTRACTION 1. ALL PIPING SHALL BE INSTALLED IN SUCH A MANNER AS TO AVOID UNDUE STRESS AND DISTORTION DUE TO EXPANSION AND CONTRACTION. PROVIDE FOR EXPANSION AND CONTRACTION BY THE USE OF EXPANSION LOOPS FOR OFFSETS. EXPANSION LOOPS SHALL BE INSTALLED IN THE LINE IN A COLD SPRUNG POSITION WITH PROPER ANCHORS AND GUIDES. STAINLESS BRAIDED
- EXPANSION LOOPS "METRALOOP" BY METRAFLEX INC. 2. PROVISION FOR EXPANSION AND CONTRACTION SHALL BE MADE ON THE BASIS OF 25 MM PER 30 M OF PIPE PER 38 DEG. C. TEMPERATURE RISE FOR STEEL PIPE AND 40 MM PER 30 M OF PIPE PER 38 DEG. C. TEMPERATURE RISE FOR

BRASS OR COPPER PIPE.

ELEVATIONS 1. PROPOSED AND EXISTING ELEVATIONS, LOCATIONS, AND SIZES OF EXISTING SERVICES SHALL BE VERIFIED PRIOR TO STARTING WORK, INCLUDING BUILDING FLOOR, CEILING, AND STRUCTURAL STEEL, CONCRETE, AND WOOD ELEVATIONS.

PIPE HANGERS AND SUPPORTS

CAULK AND SEAL WHEN PIPE IS INSTALLED.

- 1. FABRICATE HANGERS, SUPPORTS AND SWAY BRACES IN ACCORDANCE WITH ANSL/ASME B31.1.
- 2. SUPPORT FROM STRUCTURAL MEMBERS. WHERE STRUCTURAL BEARINGS DO NOT EXIST OR INSERTS ARE NOT IN SUITABLE LOCATIONS, SUSPEND HANGERS FROM STEEL CHANNELS OR ANGLES. DIVISION 15 SHALL PROVIDE SUPPLEMENTARY STRUCTURAL MEMBERS. DO NOT SUSPEND FROM METAL DECK. ANCHORING OF PIPING AND EQUIPMENT SHALL BE TO MANUFACTURER'S RECOMMENDATIONS. SUBMIT ANCHORAGE SYSTEMS, ARRANGEMENT AND TYPE

OF HANGERS SUPPORTS WITH CALCULATIONS FOR REVIEW. **SLEEVES AND ESCUTCHEONS**

- 1. PIPE SLEEVES: AT POINTS WHERE PIPES PASS THROUGH MASONRY OR CONCRETE. SLEEVES OF: MINIMUM 0.8 MM THICK GALVANIZED SHEET STEEL WITH LOCK SEAM JOINTS. USE CAST IRON SLEEVE OR STEEL PIPE SLEEVES WITH ANNULAR FIN CONTINUOUSLY WELDED AT MIDPOINT; THROUGH FOUNDATION WALLS.
- 2. FOR PIPES PASSING THROUGH ROOF5, USE "THALER ROOFING PRODUCTS" INSULATED ALUMINUM CONE FLASHINGS AND FLASHING CLAMP DEVICE WITH TAMPER PROOF VENT TOP. ANCHOR SLEEVES IN ROOF CONSTRUCTION: FASTEN

ROOF FLASHING TO CLAMP DEVICE: MAKE WA IER-TIGHT DURABLE JOINT.

WHERE SLEEVE EXTENDS ABOVE FINISHED FLOOR: EXTEND UP 50 MM,

WHERE PIPES AND DUCTS PASS THROUGH FIRE RATED WALLS, FLOORS AND PARTITIONS, PACK SPACE WITH MATERIALS HAVING APPROVAL OF AUTHORITIES HAVING JURISDICTION.

DIVISION 15 TO PROVIDE ALL MATERIALS AND LABOUR TO COMPLETE U.L.C. FIRSTOPPING FOR DIVISION 15 WORK.

PIPING MATERIALS

FXT-FXIFRIOR BUR-BURIED PIPING INT-INIERIOR A.G.-ABOVE GRADE

	EX T	IN T	BU R	A. G.	MATERIAL	CODE				
	√		V		CAST IRON	CSA B70	MECH. JOINTS. TARRED			
	V		1		IPEX PSM	CSA B182-1	GASKET RING JOINTS			
SANITARY SEWERS - ALL SIZES		V	√	1	COPPER DWV	ASTM B42	SOLDERED JOINTS			
- ALL SIZES		V	√		ABS	CSA B181.1	SOLVENT WELD JOINTS			
		V	√		PVC	CSA B181.2	SOLVENT WELD JOINTS			
		√	√	V	CAST IRON	CSA B70	MECH. JOINTS			
					TYPE L	ASTM B88	SEAMLESS SOLDERED			
		,	,		COPPER		JOINTS			
		1	√		CAST IRON	CSA B70	MECH. JOINTS			
VENTING					ABS	CSA B181	SOLVENT WELD JOINTS			
				1	COPPER DWV	ASTM B206	SEAMLESS SOLDERED JOINTS			
		√			CAST IRON	CSA B70	MECH. JOINTS			
	√		√		SOFT K COPPER	ASTM B88	NO JOINTS			
	,		,		DUCTILE IRON ANSI/AWWA		TYTON JOINTS CEMENT LINED			
COLD WATER	√		V	CLASS 52		C1S1/A21.51	C.I. FITTINGS CEMENT LINED			
	√		V		PEX PVC	CSA B182-1	T&G, GASKET JOINTS			
		V		1	TYPE L COPPER	ASTM B88	WROUGHT FITTINGS LEAD FREE			
DOMESTIC HOT WATER		V		V	TYPE L COPPER	ASTM B88	WROUGHT FITTINGS LEAD FREE			
HEATING/CHILLED WATER TO 50 DIA		√		√	STEEL	ASTM A53	GRADE B, SCHEDULE 40 THREADED			

	DIDE	HANCE	D CDA	NING 64	NEDIII	_			
PIPE HANGER SPACING SCHEDULE HANGER SPACING (FT.)									
SERVICE	PIPE SIZE (MM.)								
	20	25	32	40	50	65	80	100	150
W (TYPE 'L' COPPER) ARD TEMPER									
THESE HANGER SPACINGS ARE A GUIDE ONLY. WHERE AUTHORITIES HAVING JURISDICTION, GOVERNING DES OR SPECIFIC SALUTATIONS REQUIRE MORE STRINGENT DISTANCE BETWEEN HANGERS. THAT SPACING ALL TAKE PRECEDENCE.									

. THIS CONTRACTOR SHALL. SUPPLY AND INSTALL. ALL REQUIRED SIJPPL£MENTARY STEEL NECESSARY TO

DIELECTRIC COUPLINGS

CONSTRUCT THESE HANGERS.

1. PROVIDE WHEREVER PIPES OF DISSIMILAR METALS ARE JOINED. PROVIDE INSTALLING UNIONS FOR PIPE SIZES NPS 2 AND UNDER THE FLANGES FOR PIPE SIZES OVER NPS 2. STANDARD OF ACCEPTANCE: WATTS

HEATING SYSTEMS

	_	
GATE VALVES:	NPS 1/2 TO NPS 2	CRANE 42B
	NPS 2 1/2 TO NPS 12	CRANE 465 1 /2
GLOBE VALVES:	NPS 1/2 TO NPS 2	CRANE 5
	NPS 2 1/2 TO NPS 12	CRANE 351
BALL VALVES:	NPS 1/2 TO NPS 2	CRANE 9322S
CHECK VALVES:	NPS 1/2 TO NPS 2	CRANE 37
	NPS 2 1/2 TO NPS 12	CRANE 373
JOINTS	NPS 1/2 TO NPS 2	THREADED WITH TAPE
	NPS 2 1/2 TO NPS 12	WELDED AND FLANGED
CTDAINEDC	•	CAROO TOVO 700

AIR VENTS:

RECORD DRAWINGS 1. INSTALL ON ALL PIPING AND FOR ALL BRANCH LINES AND AS INDICATED ON PIPING SCHEMA TICS WHERE BALANCE VALVES (C.B.V.) ARE SHOWN.

(LOCATE AT ALL SYSTEM HIGH POINTS.)

WATTS 13 W WITH BALL VALVES. PIPED TO DRAIN.

SARCO, TOYO 380

2. ACCEPTABLE PRODUCTS SHALL BE BY TOUR AND ANDERSON. FLUSHING AND CLEANING PROCEDURE FOR HOT WATER HEATING PIPING SYSTEMS

- 1. FLUSH OUT SYSTEMS AFTER PRESSURE TEST FOR A MINIMUM OF FOUR (4) HOURS. ISOLATE ALL COILS FROM LOOP PIPING DURING INITIAL FLUSHING. FILL SYSTEM WITH HOSES TO EACH RADIATOR DRAIN VALUE AND BLOW BACK TOWARDS BOILER ROOM. ALL COIL HOSES TO BE LOOPED SUPPLY TO
- 2. FILL SYSTEMS WITH SOLUTION OF WATER AND CLEANING FORMULA TO RECOMMENDED FORMULATIONS. CIRCULAR 1E FOR A MINIMUM OF 48 HOURS

AT 70 DEG. F. WATER TEMPERATURE.

- **PIPING INSULATION** 1. ALL WATER LINES INDICATED IN THE SCOPE OF WORK ITEM .3 BELOW SHALL BE INSULATED WITH 25 MM THICK DUAL TEMPERATURE GLASS FIBRE PIPE INSULATION. INSULATION SHALL BE MANUFACTURED BY FIBREGLASS OF
- 2. THIS INSULATION SHALL BE SUPPLIED COMPLETE WITH FLAME RETARDANT VAPOUR BARRIER JACKET CONSISTING OF GLASS FIBRE, REINFORCED LAMINATE OF ALUMINUM FOIL AND KRAFT PAPER. LONGITUDINAL SEAMS OF THE VAPOUR BARRIER JACKET SHALL BE SEALED WITH VAPOUR-PROOF ADHESIVE, FLINTKOTE TYPE 32. INSULATE AND TAPE ALL VALVES AND FITTINGS. EXPOSED PIPING INSULATION TO BE FINISHED WITH 8 OZ. FATTAL

U.L.C. LISTED CANVAS AND CHILDERS LAGGING. NON-U.L.C. LISTED CANVAS

1. DOMESTIC COLD WATER PIPING DOMESTIC HOT WATER PIPING AND RETICULATION 3. HOT WATER HEATING PIPING.

WILL NOT BE ACCEPTED.

3. INSULATE THE FOLLOWING;

4. INTERNAL RAIN WATER LEADERS ABOVE GRADE. **PLUMBING**

THE ONTARIO BUILDING CODE (2006) THE WATER RESOURCES ACT (REG. 815) ASHRAE/IES 90.1 (2004)

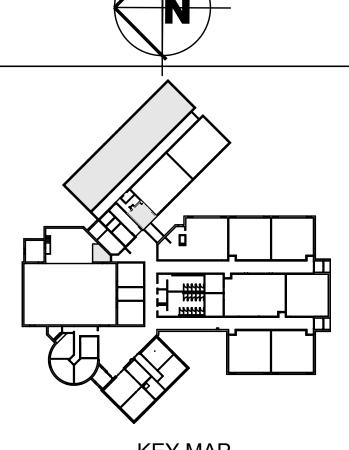
- 2. HOT AND COLD PORTABLE WATER PIPING TO BE TYPE-L COPPER (CONFORM TO ASTM-B88) WITH SOLDER-JOINT FITTINGS (CONFORM TO ANSI-B16.18 OR ANSI-B16.22). 3. BURIED DRAINAGE PIPING INSIDE THE BUILDING TO BE ABS PLASTIC
- (CERTIFIED TO CAN/CSA-B181.1) WITH SOLVENT CEMENT JOINT (CONFORM TO CAN/CSA-181.1). 4. ALL ABOVE GRADE SANITARY DRAINS AND VENT STACKS TO BE CAST IRON, NO HUB, WITH MJ JOINTS (CERTIFIED TO CSA-B70). BRANCH VENTS AND ABOVE GRADE SANITARY DRAINS MAY BE COPPER DRAINAGE TUBE (DWV)

1. PLUMBING SERVICES ARE TO BE SUPLIED AND INSTALLED IN ACCORDANCE

FEDERAL. PROVINCIAL OR LOCAL AUTHORITIES HAVING JURISDICTION.

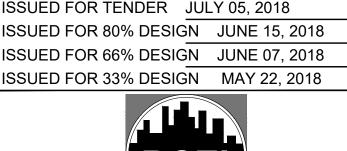
(COMPLY WITH ASTM-B306) WITH SOLDER JOINT FITTINGS (CONFORM TO ANSI-B16.29). 5. STANDARD FLOW ROOF DRAINS TO BE SMITH SERIES 1010ERCCID ROOF





KEY MAP ISSUED FOR RE-TENDER JAN 11, 2021

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EEC- STE. CROIX DAYCARE



ONSEIL SCOLAIRE CATHOLIO

INTERIOR RENOVATIONS

110 DREWRY AVENUE TORONTO, ON

CONSEIL SCOLAIRE CATHOLIQUE MONAVENIR

MECHANICAL SPECIFICATIONS -

AS NOTED MAY 2018

DRAIN, ALL DUCO COATED 15" (380MM) DIA.. CAST IRON BODY, WITH UNDER DECK CLAMP, ADJUSTABLE EXTENSION AND SUMP RECEIVER, 11" (280MM) SECURED C.I. DOME. ON SMALL AREA ROOFS PROVIDE SERIES 1330ERCCID DRAIN, WITH 8 1/2" (212MM) ALUMINUM DOME. IN PATIO AND TRAFFIC AREAS PROVIDE SERIES 1470ERCNB DRAIN, WITH ADJUSTABLE SLOTTED EXTENSIONS AND 8" X 8" (200MM X 200MM) NICKEL BRONZE SQUARE PROMENADE TOP. INVERTED ROOF INSTALLATION USE SERIES 1017EPRCCID

6. FLOW CONTROL ROOF DRAINS SMITH SERIES 1083ERCCID FLOW CONTROL ROOF DRAIN SLOPED ROOF ALL DUCO COATED CST IRON BODY, WITH ECK CLAMP, ADJUSTABLE DETENTION AND SUM RECEIVER, 11" (280MM) SECURED C.I. DOME AND 6" HIGH (150MM) FLOW RATE CONTROL WEIR. INVERTED ROOF INSTALLATION US SERIES 1017-85-ERPCCID DRAINS. 7. PARAPET, SCUPPER DRAINS. GUTTER. AND PIT DRAINS TO BE SMITH SERIES 1510/30SG SCUPPER DRAIN, ALL DUCO COATED CAST IRON BODY, WITH SECURED ANGLED GRATE, FLASHING CLAMP AND 45 DEGREE OR 90 DEGREE OUTLETS. FOR GUTTER INSTALLATION USE SMITH SERIES 1630, WITH 4 1/2

(114MM) HIGH DOME. 8. FLOOR DRAINS IN FINISHED AREAS TO BE SMITH SERIES 2005A FLOOR DRAIN, ALL DUCO COATED CAST IRON BODY, REVERSIBLE CLAMP DEVICE AND ADJUSTABLE 5' DIAMETER (127MM) NICKEL BRONZE 1/4" (6.35MM) THICK STRAINER, SECURED WITH IS.S. SCREWS, 4" (100MM) THROAT ON STRAINER. IN QUARRY OR MOSAIC TILED AREAS, PROVIDE SQUARE 'B' -5"X5" (127MM X 127MM) POLISHED BRONZE (PB) SQUARE STRAINER. FLOOR DRAIN WITH FUNNEL PROVIDE 2005A-3580NB. 9. FLOOR DRAINS IN MECHANICAL ROOMS AND UNFINISHED AREAS TO BE SMITH

SERIES 2320 FLOOR DRAIN, ALL DUCO COATED CAST IRON BODY, SEEPAGE FLANGE, ADJUSTABLE COLLAR, CALMING DEVICE AND 8" (200MM) DIAMETER GRATE. FLOATING FLOORS PROVIDE 9340, WITH MOMENT COMPENSATOR AND VIBRATION ISOLATOR. FLOOR DRAINS WITH COMBINATION FUNNEL TO BE SMITH SERIES 2320-3591FUNNEL FLOOR DRAIN, ALL DUCO COATED CAST IRON BODY,

(216MM) WITH 4" X 9" (101.6MM X 228.6MM) OVAL FUNNEL. FLOATING FLOOR PROVIDE 9340*-3591, WITH MOVEMENT COMPENSATOR AND VIBRATION ISOLATOR. 11.EXTERIOR NON-FREEZE WALL HYDRANT TO BE SMITH SERIES 5609QTNB HYDRANT, 1/4 TURN NON-DRIOP, CERAMIC CARTRIDGE, 3/4" (19MM) NON-FREEZÉ WALL TYPE WITH BRONZE FACE, ADJUSTABLE WALL-OFLANGE

SEEPAGE FLANGE, ADJUSTABLE COLLAR, CLAMPING DEVICE AND 8-1.2"

OPERATION KEY AND SERF-DRAINING INTEGRAL VACUUM BREAKER. LENGTH TO SUIT WALL THICKNESS. 12. INTERIOR HOSE BIBB TO BE CAMBRIDGE BRASS #32W201 HOSE BIBB, 1/2" (12.7MM) SIZE, WALL TYPE ROUGH BRONZE WITH HOSE END VACUUM

13. LINE CLEANOUTS TO BE SMITH SERIES #4420 LINE CLEANOUTS, IN CAST IRON PIPE WITH BOLTED NEOPRENE CASKETED COVER SECURED TO BODY WITH BRASS BOLTS, WITH FULL SIZE PIPE OPENING. 14. STACK CLEANOUT TO BE SMITH SERIES #4510 STACK CLEANOUT, IN BASE OF CAST IRON STACK WITH NEOPRENE CASKETED SECURED COVER. WHERE CLEANOUTS ARE CONCEALED BEHIND FINISHED WALLS ACCESS SHALL BE MADE BY SMITH 4530 ROUND STAINLESS STEEL PLATE AND SLOTTED

FLAT HEAD STAINLESS STEEL SCREWS. 15. URINAL CLEANOUT TO BE SMITH SERIES SQ4-1819 URINAL WALL ACCESS CLEANOUT, WITH S.S BOLT AND WING NUT, COMPLETE WITH ROUND POLISHED S.S. ACCESS COVER AND SECURED WITH V.P. SCREW. 16. FLOOR CLEANOUTS IN UNFINISHED AREAS AND OUTSIDE AREAS, SMITH SERIES 4220 FLOOR CLEANOUT, DUCO COATED CAST IRON BODY WITH

INTEGRAL CLAMP DEVICE, AND REMOVABLE POSITIVE SEAL CLOSURE PLUG AND HEAVY DUTY 6" (150MM) ADJUSTABLE COVER SECURED WITH STAINLESS STEEL SCREWS. 17. FLOOR CLEANOUTS IN TILED AREAS, SMITH SERIES 4140 FLOOR CLEANOUT, SAME AS ABOVE WITH SQUARE NICKEL BRONZE COVER AND FRAME RECESSED FOR TILE. COVER CAN BE ADJUSTED TO SUIT FLOOR

LINES WHEN INSTALLING FINISHED FLOOR. 18. FLOOR CLEANOUTS IN TERRAZZO AREAS, SMITH SERIES 4180 FLOOR CLEANOUT, SAM AS ABOVE WITH SQUARE NICKEL BRONZE COVER AND FRAME RECESS FOR TERRAZZO. COVER CAN BE ADJUSTED TO SUIT FLOOR LINES WHEN INSTALLING FINISHED FLOOR.

19. FLOOR CLEANOUTS IN CARPETED AREAS, SMITH SERIES 4020Y FLOOR CLEANOUT, SAME AS ABOVE WITH NICKEL BRONZE COVER AND FRAME. 20. FLOOR CLEANOUTS IN OTHER FINISHED AREAS, SMITH SERIES 4020 FLOOR CLEANOUT, SAME AS ABOVE WITH NICKEL BRONZE FRAME AND

FLOOR CLEANOUTS FOR HEAVY TRAFFIC AREAS, SMITH SERIES 4100 FLOOR CLEANOUT, SAME AS ABOVE WITH EXTRA HEAVY NICKEL BRONZE COVER AND FRAME.

22. TRAP SEAL PRIMER SERVING 1 OR 2 DRAINS TO BE P.P.P. INC. MODEL PO-500 AUTOMATIC TRAP SEAL PRIMER VALVE, SEARING INDIVIDUAL OR REMOTE AREA DRAINS WITH 1 NPT (MTOF) CONNECTIONS WITH STRAINER AND INTEGRAL BACK FLOW PREVENTER & VACUUM BREAKER. 23. PROVIDE ISOLATION VALVES ON ALL MAIN LINES, BRANCH LINES AND AT PIECES OF EQUIPMENT. ALL VALES SHALL BE JENKINS, CRANE OR EQUAL

WITH A MINIMUM RATING OF 125% OF THE SYSTEM DESIGN PRESSURE. 24. ALL ABOVE GRADE PIPING IS TO BE INSULATED WITH FIBREGLASS INSULATION TO PREVENT CONDENSATION OR TO RETAIN HEAT FOR ENERGY EFFICIENCY. INSULATION SYSTEM TO BE SCHULLER MICRO-LOK OR EQUAL, WITH SIZES AS SHOWN BELOW.

INSULATION REQUIRED SERVICE & PIPE SIZE RAIN WATER LEADERS (ANY SIZE) SANITARY DRAINS (ANY SIZE) DOMESTIC COLD WATER (ANY SIZE) DOMESTIC HOT WATER (2" & SMALLER) DOMESTIC HOT WATER (2½" & LARGER) DOMESTIC HOT WATER RECIRC.(ANY SIZE) DOMESTIC WATER (HOT OR COLD) BRANCHES

25. IDENTIFY ALL PIPE OR PIPE COVERING WITH SMILLIE MCADAMS SUMMERLIN LTD.COIL-MARK OR ADHESIVE STYLE BUILDING SERVICE PIE MARKER. ALL IDENTIFICATION SHALL INCORPORATE DIRECTION OF FLOW ARROW AND THE MANUFACTURES STANDARD SYSTEM DESIGNATION. IDENTIFICATION MUST BE APPLIED AT INTERVALS NOT GREATER THAN 40 FT. (12M). ADJACENT TO VALVES, BEHIND ACCESS DOORS, AT CHANGES IN DIRECTION AND WHERE PIPES PASS THROUGH WALLS OR FLOORS. INSTALLED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.

26. IDENTIFY AL VALVES BY MEANS OF A 1-1/4" (32MM) DIAMETER BRASS TAG WITH 3/8" (9.5 MM) STAMPED BLACK PAINT FILLED CHARACTERS, OR A 1-1/4" (32MM) SQUARE ENGRAVED TWO-PLY PLASTIC TAG WITH 3/8" (9.5MM) BLACK CHARACTERS ON WHITE BACKGROUND, TAGS TO BE CONSECUTIVELY NUMBERED AND SECURED TO VALVES BY A BRASS BEAD CHAIN. PROVIDE AND MOUNT FOR OWNER A TYPED VALVE DIRECTORY IN A BLACK DOCUMENT FRAME, LISTING VALVE NUMBER, LOCATION, AND SERVICE. INDIVIDUAL FIXTURE VALVES NEED NOT BE IDENTIFIED.

27. IDENTIFY ALL EQUIPMENT SUCH AS, BUT NOT LIMITED TO FANS, PUMPS, MOTORS AHU'S AND THEIR RELATED STARTERS BY MEANS OF ON ENGRAVED TWO-PLY PLASTIC I.D. PLATE. EQUIPMENT I.D. PLATES SHALL HAVE 3/8" (9.5 MM) WHITE CHARACTERS ON BLACK BACKGROUND: STARTER I.D. PLATES SHALL BE AS ABOVE WITH 1/8"(3.1MM)CHARACTERS. ALL PLATES SHALL BE SIZED TO ACCOMMODATE REQUIRED DESCRIPTION BEARING TYPE OF EQUIPMENT, NUMBER AND SERVICE. LOCATE CONSPICUOUSLY AND SECURE WITH SELF ADHESIVE TAPE. RECOGNIZED ABBREVIATIONS WILL BE ACCEPTABLE. OTHER PROPOSED ABBREVIATIONS TO BE APPROVED BY THE

SIZE OF PANELS TO ALLOW FOR MAINTENANCE OR REMOVAL OF ITEM. 29. UNIVERSAL ACCESS DOORS FOR WALLS AND CEILINGS TO BE ACUDOR SERIES UF-5000 ACCESS DOORS, 14 GA. (17MM) STEEL, RUST RESISTANT, CONTINUOUS CONCEALED HINGE, WITH POSITIVE AND SELF-OPENING SCREWDRIVER OPERATED LOCK. DOORS IN TILE WALLS SHALL BE STAINLESS STEEL AND SHALL SUIT TILE PATTERN. ALL OTHER PANELS SHALL BE PRIME PAINTED STEEL. MINIMUM SIZE OF PANELS SHALL BE 12" X 18" (300MM X450MM). WHEREVER POSSIBLE 24" X 24" (600MM X 600MM) PANELS SHALL BE USED.

28. PROVIDE ACCESS PANELS TO ALL CONCEALED VALVES OR EQUIPEMNT.

30. RECESSED ACCESS DOOR FOR TILE APPLICATIONS TO BE ACUDOR SERIES AT-5020 RECESSED ACCESS DOOR FOR CEILING TILE, 16 GA. (1.5MM) STEEL WITH CONCEALED PIVOTING ROD TYPE HINGE AND ALLEN KEY OPERATED LOCK. DOOR TO BE RECESSED 5/8" (14MM) TO RECEIVE CEILING TILE. FOR CERAMIC WALL TILE PROVIDE #AT-5020SS STAINLESS STEEL RECESSED ACCESS DOOR WITH ALLEN KEY LOCK.

31. RECESSED ACCESS DOOR FOR DRYWALL APPLICATIONS TO BE ACUDOR SERIES DW-5015 RECESSED ACCESS DOOR, 16 GA. (1.5MM) STEEL WITH CONCEALED PIVOTING ROD TYPE HIGH AND SELF-OPENING SCREWDRIVER OPERATED LOCK. DOOR TO BE RECESSED 5/8"(14MM) TO RECEIVE DRYWALL. FLANGE OF DOOR TO BE GALVANIZED STEEL TAPING BEADING TO PROVIDE

FINISH OF DRYWALL JOINTS. 32. FIRE RATED ACCESS DOORS TOBE INSULATED ACUDOR SERIES FW-5050 FIRE RATED ACCESS DOORS. FOR WALLS AND CEILING UL/ULC 1-1/2 HOUR 'B' LABEL WITH MAXIMUM TEMPERATURE RISE OF 250 DEGREES AFTER 30

MINUTES. DOOR WITH 2' (50MM) INSULATION, STEEL. 20 GA (1MM) WITH 16 GA. (1.6MM) FRAME, CONCEALED HINGE, SELF LATCHING RING PULL AND GREY BAKED ENAMEL FINISH.

33. PROVIDE PLUMBING FIXTURES AND EQUIPMENT AS SPECIFIED ON THE DRAWINGS. ALL ITEMS TO BE NEW AND OF THE HIGHEST QUALITY. ALL ITEMS INSTALLED BY THIS CONTRACTOR MUST BE INSTALLED COMPLETE AND INCLUDE ALL PIPING, VALVES AND MISCELLANEOUS FITTINGS, CONTROLS, SUPPORT BASE OR STRUCTURE, TO ENSURE A TOTALLY FUNCTIONAL UNIT OR SYSTEM. COORDINATE INSTALLATION WITH OTHER TRADES AS REQUIRED. 34. ALL PLUMBING INSTALLATIONS ARE TO BE IN THE BEST WORKMANLIKE MANOR AND IN ACCORDANCE WITH THE BEST PRACTICES OF THE TRADE.

DISTANCE BETWEEN SUPPORTS 1" & SMALLER (METALLIC) 6'-0" MAXIMUM 1¼" & SMALLER (METALLIC) 8'-0" MAXIMUM 3'-0" MAXIMUM ½" & SMALLER (PLASTIC) 1¼" & SMALLER (PLASTIC) 4'-0" MAXIMUM

36. PROVIDE SLEEVES FOR ALL PIPING PENETRATING WALLS AND FLOORS. ENSURE ALL PENETRATIONS THROUGH FIRE RATED ASSEMBLIES ARE PROPERLY SEALED WITH AN APPROVED COMPOUND. 37. ALL TRENCHING, BEDDING, AND BACKFILL OF BURIED PIPING IS THE RESPONSIBILITY OF THE CONTRACTOR.

PLUMBING FITTINGS AND ACCESSORIES

35. SUPPORT ALL PIPING AS FOLLOWS:

VALVES		
GATE VALVES:	NPS 2 AND UNDER	CRANE 1320 / CRANE 428
	OVER NPS 2	CRANE 465 1/2
GLOBE VALVES:	NPS 2 AND UNDER	CRANE 1310
CHECK VALVES:	NPS 2 AND UNDER	CRANE 1342
	OVER NPS 2	CRANE 373
BALL VALVES:	NPS 2 AND UNDER	CRANE 9322S

- 1. FINISHED FLOORS ZURN ZN-211BP, 125BP, 125 MM ROUND NICKEL BRONZE STRAINER. 2. UNFINISHED AREAS ZURN ZXN-211AP - IN WATERPROOF MEMBRANE AREAS
- USE ZXN-401AP NICKEL BRONZE STRAINER. 3. CERAMIC TILE AREAS ZURN ZXN-211 HP WITH NICKEL BRONZE

STIRAINER, 150X150 SIZE. 4. ANCON DRAINS CONSIDERED EQUAL TO ZURN.

1. CLEANOUT PLUGS (CAST IRON) HEAVY CI MALE FERRULE WITH BRASS SCREWS AND THREADED BRASS OR BRONZE PLUG. SEALING-CAULKED SEAT OR WITH NEOPRENE GASKET. ACCEPTABLE MATERIALS: ZURN Z1450 SERIES,

PLUMBING FIXTURES

WALL HUNG BASIN - METERING FAUCET - POINT OF USE THERMOSTATIC

WALL HUNG BASIN - VITREOUS CHINA - WHITE FINISH - 3 HOLES, 4" (102 MM) CENTER -FRONT OVERFLOW - FAUCET LEDGE - BACK SPLASH - 32 MM (1-1/4") (NOT INCLUDED) - WALL HANGER. NOMINAL DIMENSIONS: 457 MM (18") WIDE X 403 MM (15-7/8") FRONT TO BACK X175 MM (6-7/8") HIGH. BOWL DIMENSIONS:

340 MM X 216 MM X 127 MM (13-3/8" X 8-1/2" X 5"). SHIPPING WEIGHT: 14.5 AMERICAN STANDARD 5500.140.002 MONTERREY TWO HANDLES FAUCET, POLISHED CHROME FINISH, CAST BRASS BODY, AERATOR OUTLET, CAST BRASS SPOUT, 95 MM (3-3/4") PROJECTION, VANDAL RESISTANT RED AND BLUE INDEXED LEVER

HANDLES, 13 MM (1/2") MALE THREADED INLET SHANKS WITH BRASS COUPLING

LAWLER #570-86820, POINT OF USE THERMOSTATIC WATER MIXING VALVE, NICKEL PLATED BRONZE BODY. TEMPERATURE ADJUSTING SPINDLE. 10 MM (3/8") INLETS AND OUTLET FNPT CONNECTIONS, INTEGRAL CHECKS, OFFER TEMPERATURE RANGE BETWEEN 35 °C (95 °F) AND 46 °C (114.8 °F). SET VALVE TEMPERATURE AT 46 °C (114.8 °F). PROVIDE TEE, ADAPTORS AND FLEX. COPPER TUBING TO SUIT INSTALLATION. PROVIDE TEMPERED WATER TO HOT SIDE OF FAUCET. MCGUIRE #155A OPEN GRID DRAIN, CAST BRASS ONE PIECE TOP, 17 GA. (1.5 MM) TUBULAR 32 MM (1-1/4") TAILPIECE. MCGUIRE #LFH165LKN3 FAUCET SUPPLIES, CHROME PLATED FINISH POLISHED BRASS, HEAVY DUTY ANGLE STOPS, 10 MM (3/8") I.P.S. INLET X 76 MM (3") LONG RIGID HORIZONTAL NIPPLES, V.P. LOOSE KEYS, ESCUTCHEON AND FLEXIBLE COPPER RISERS. MCGUIRE #8872C P-TRAP, HEAVY CAST BRASS ADJUSTABLE BODY, WITH SLIP NUT, 32 MM (1-1/4") SIZE, SHALLOW WALL FLANGE AND SEAMLESS TUBULAR WALL BEND.

CA-311 FIXTURE CARRIER, STEEL HANGER PLATE, HEAVY GAUGE EPOXY COATED STEEL OFFSET UPRIGHTS WITH WELDED FEET SUPPORTS, PLATED HARDWARE. MINIMUM SPACE REQUIRED: FOR ONE UNIT: 102 MM (4") FOR TWO TO SIX UNITS IN A ROW: 152 MM (6") FINISHED METAL STUD WALL TO BACK OF PIPE SPACE.

L2 COUNTER MOUNTED SELF-RIMMING / DROP-IN BASIN - SINGLE HANDLE FAUCET - POINT OF USE THERMOSTATIC WATER MIXING VALVE

OVALYN UNDERCOUNTER SINK. CLASSIC OVAL UNDERMOUNT SINK. MADE FROM VITREOUS CHINA. FRONT OVER FIOW. SUPPLIED WITH MOUNTING KIT (047194-0070A) AND TEMPLATE. 0495.300 GLAZED UNDERSIDE 435 X 359MM (17-1/8" X 14-1/8"). COMPLIANCE CERTIFICATIONS -MEETS OR EXCEEDS THE FOLLOWING SPECÍFCÁTIONS: ASME A112.19.2M FOR VITREOUS CHINA FIXTURES AND CAN/CSA B45 SERIES. CHICAGO FAUCETS 420 SERIES #420-ABCP SINGLE HANDLE FAUCET, CHROME PLATED FINISH, ECAST CONSTRUCTION LEAD FREE (EQUAL OR LESS THAN 0.25%) CAST BRASS BODY, VOLUME CONTROL AND HOT WATER LIMIT STOP CERAMIC CARTRIDGE, 5.7 LPM (1.5 GPM) PRESSURE COMPENSATING LAMINAR FLOW (NON-AERATING) OUTLET, 131 MM (5-3/16") PROJECTION REACH, LEVER HANDLE. LAWLER #570-86820, POINT OF USE THERMOSTATIC WATER MIXING VALVE, NICKEL PLATED BRONZE BODY, TEMPERATURE ADJUSTING SPINDLE, 10 MM (3/8") INLETS AND OUTLET FNPT CONNECTIONS, INTEGRAL CHECKS, OFFER TEMPERATURE RANGE BETWEEN 35 °C (95 °F) AND 46 °C (114.8 °F). SET VALVE TEMPERATURE AT 46 °C (114.8 °F). PROVIDE TEE, ADAPTORS AND FLEX. COPPER TUBING TO SUIT INSTALLATION. PROVIDE TEMPERED WATER TO HOT SIDE OF FAUCET. MCGUIRE #155A OPEN GRID DRAIN, CAST BRASS ONE PIECE TOP, 17 GA. (1.5 MM) TUBULAR 32 MM (1-1/4") TAILPIECE. MCGUIRE #LFH165LKN3 FAUCET SUPPLIES, CHROME PLATED FINISH POLISHED BRASS, HEAVY DUTY ANGLE STOPS, 10 MM (3/8") I.P.S. INLET X 76 MM (3") LONG RIGID HORIZONTAL NIPPLES, V.P. LOOSE KEYS, ESCUTCHEON AND FLEXIBLE COPPER RISERS. MCGUIRE #8872C P-TRAP, HEAVY CAST BRASS ADJUSTABLE BODY, WITH SLIP NUT, 32 MM (1-1/4") SIZE, SHALLOW WALL FLANGE AND SEAMLESS TUBULAR WALL BEND.

W1- CHILD FLOOR MOUNTED TOILET - VITREOUS CHINA - TANK TYPE

AMERICAN STANDARD BABY DEVORO #2315.613.020 HET TOILET, 3128.001, 4019.613, 260 MM HIGH, VITREOUS CHINA, ROUND FRONT BOWL, WHITE FINISH, FLOOR MOUNTED, SIPHON JET FLUSH ACTION, 4.8 L (1.28 US GAL) PER FLUSH, RAISED SANITARY BAR, 254 MM X 229 MM (10" X 9") WATER SURFACE, TWO (2) PIECE, 'SPEED CONNECT' TANK ASSEMBLY, SIPHON JET FLUSH ACTION, RAISED SANITARY BAR, UNLINED TANK, BOLTED TANK COVER, 51 MM (2") FLUSH VALVE WITH FLAPPER, 'PILOT VALVE' WATER CONTROL (WITHOUT FLOAT) FOR QUIET REFILL, 254 MM (10") ROUGH-IN, ROUND FRONT BOWL, 51 MM (2") FULLY GLAZED INTERNAL TRAPWAY, FLOOR OUTLET, BOLT CAPS, TOILET SEAT NOT INCLUDED, DESIGNED FOR CHILDREN. CENTOCO #AM2300STSCC.001 BABY TOILET SEAT. HEAVY DUTY, FOR ROUND BOWL,

OPEN FRONT, SOLID PLASTIC, LESS COVER, STAINLESS STEEL CHECK HINGES, METAL FLAT WASHERS STAINLESS STEEL POSTS AND NUTS. MCGUIRE #LFH166LKN3 TOILET SUPPLY, CHROME PLATED FINISH POLISHED BRASS, HEAVY DUTY ANGLE STOPS, 13 MM (1/2") I.P.S. INLET X 76 MM (3") LONG RIGID HORIZONTAL NIPPLES, V.P. LOOSE KEYS, ESCUTCHEON AND FLEXIBLE COPPER RISERS. PROVIDE FLOOR FLANGE, (SAME MATERIAL AS THE CONNECTING PIPE DRAIN), WITH ALL BRASS BOLTS AND WITH RUBBER GASKET.

CLASSROOM SINK - TWO HANDLES FAUCET - POINT OF USE THERMOSTATIC

PEKOE 17 X 17 SINGLE BOWL STAINLESS STEEL KITCHEN SINK 18SB.8171700.075 FABRICATED SINGLE BOWL STAINLESS STEEL KITCHEN SINK. 18 GAUGE STAINLESS STEEL. 8" DEEP BOWL. 10MM RADIUS CORNERS. UNDERMOUNT INSTALLATION. SIDE AND BOTTOM SOUND PADS WITH FULL SPRAY INSULATION. 21" (533MM) CABINET INCLUDES 7302288-401.0750A BOTTOM GRID. 9028000.075 WASTE FITTINGS,

791676-100.0070A UNDERMOUNT SINK CLIPS, CUTOUT TEMPLATE.

CHICAGO FAUCETS 1100 SERIES #1100-G2AE35-317VAB TWO HANDLES FAUCET. CHROME PLATED FINISH, ECAST CONSTRUCTION LEAD FREE (EQUAL OR LESS THAN 0.25%) CAST BRASS BODY, QUATURN COMPRESSION OPERATING CARTRIDGE, 5.7 LPM (1.5 GPM) VANDAL RESISTANT PRESSURE COMPENSATING SOFTFLO AERATOR OUTLET, 133 MM (5-1/4") PROJECTION RIGID/SWING GOOSENECK SPOUT, 102 MM (4") METAL VANDAL PROOF WRISTBLADE SIXTEEN POINT TAPERED BROACH HANDLE WITH BLUE AND RED INDEX BUTTONS. LAWLER #570-86820, POINT OF USE THERMOSTATIC WATER MIXING VALVE, NICKEL

PLATED BRONZE BODY. TEMPERATURE ADJUSTING SPINDLE. 10 MM (3/8") INLETS AND OUTLET FNPT CONNECTIONS, INTEGRAL CHECKS, OFFER TEMPERATURE RANGE BETWEEN 35 °C (95 °F) AND 46 °C (114.8 °F). SET VALVE TEMPERATURE AT 46 °C (114.8 °F). PROVIDE TEE, ADAPTORS AND FLEX. COPPER TUBING TO SUIT INSTALLATION. PROVIDE TEMPERED WATER TO HOT SIDE OF FAUCET. MCGUIRE #LFH165LKN3 FAUCET SUPPLIES. CHROME PLATED FINISH POLISHED BRASS. HEAVY DUTY ANGLE STOPS, 10 MM (3/8") I.P.S. INLET X 76 MM (3") LONG RIGID HORIZONTAL NIPPLES, V.P. LOOSE KEYS, ESCUTCHEON AND FLEXIBLE COPPER RISERS. MCGUIRE #8912CB P-TRAP, HEAVY CAST BRASS ADJUSTABLE BODY. WITH SLIP NUT, 38 MM (1-1/2") SIZE, BOX FLANGE AND SEAMLESS TUBULAR WALL

S1A CLASSROOM SINK - TWO HANDLES FAUCET

PEKOE 17 X 17 SINGLE BOWL STAINLESS STEEL KITCHEN SINK 18SB.8171700.075 FABRICATED SINGLE BOWL STAINLESS STEEL KITCHEN SINK. 18 GAUGE STAINLESS STEEL. 8" DEEP BOWL. 10MM RADIUS CORNERS. UNDERMOUNT INSTALLATION. SIDE AND BOTTOM SOUND PADS WITH FULL SPRAY INSULATION. 21" (533MM) CABINET

INCLUDES 7302288-401.0750A BOTTOM GRID, 9028000.075 WASTE FITTINGS, 791676-100.0070A UNDERMOUNT SINK CLIPS, CUTOUT TEMPLATE. CHICAGO FAUCETS 1100 SERIES #1100-G2AE35-317VAB TWO HANDLES FAUCET, CHROME PLATED FINISH, ECAST CONSTRUCTION LEAD FREE (EQUAL OR LESS THAN 0.25%) CAST BRASS BODY, QUATURN COMPRESSION OPERATING CARTRIDGE, 5.7 LPM (1.5 GPM) VANDAL RESISTANT PRESSURE COMPENSATING SOFTFLO AERATOR OUTLET, 133 MM (5-1/4") PROJECTION RIGID/SWING GOOSENECK SPOUT, 102 MM (4") METAL VANDAL PROOF WRISTBLADE SIXTEEN POINT TAPERED BROACH HANDLE WITH BLUE AND RED INDEX BUTTONS. MCGUIRE #LFH165LKN3 FAUCET SUPPLIES, CHROME PLATED FINISH POLISHED BRASS. HEAVY DUTY ANGLE STOPS. 10 MM (3/8") I.P.S. INLET X 76 MM (3") LONG RIGID HORIZONTAL NIPPLES, V.P. LOOSE KEYS, ESCUTCHEON AND FLEXIBLE COPPER RISERS. MCGUIRE #8912CB P-TRAP, HEAVY CAST BRASS ADJUSTABLE

BODY, WITH SLIP NUT, 38 MM (1-1/2") SIZE, BOX FLANGE AND SEAMLESS

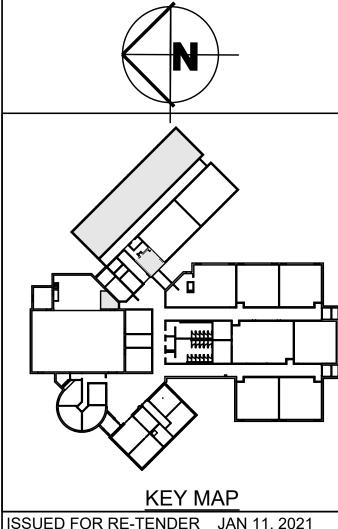
S2 UNDER COUNTER SINK - TWO HANDLES FAUCET

TUBULAR WALL BEND.

FRANKE COMMERCIAL #UCD6408P-1 DOUBLE BOWL UNDER COUNTER SINK, 794 MM (31-1/4") WIDE X 460 MM (18-1/8") LONG X 203 MM (8") HIGH DEEP, COUNTER MOUNTED, NO LEDGE, GRADE 18-10 18 GA. (1.2 MM) TYPE 304 STAINLESS STEEL, SATIN FINISH RIM AND BOWLS, MOUNTING KIT PROVIDED, FULLY UNDERCOATED TO REDUCE CONDENSATION AND RESONANCE, 3-1/2" (89 MM) CRUMB CUP WASTE ASSEMBLY WITH 1-1/2" (38 MM) TAILPIECE.

CHICAGO FAUCETS 1100 SERIES #1100-E35VP317ABCP TWO HANDLES FAUCET. CHROME PLATED FINISH, ECAST CONSTRUCTION LEAD FREE (EQUAL OR LESS THAN 0.25%) CAST BRASS BODY, QUATURN COMPRESSION OPERATING CARTRIDGE, 5.7 LPM (1.5 GPM) VANDAL RESISTANT PRESSURE COMPENSATING SOFTFLO AERATOR OUTLET, 203 MM (8") PROJECTION L TYPE SWING SPOUT, 102 MM (4") METAL VANDAL PROOF WRISTBLADE SIXTEEN POINT TAPERED BROACH HANDLE WITH BLUE AND RED INDEX BUTTONS. MCGUIRE #LFH165LKN3 FAUCET SUPPLIES, CHROME PLATED FINISH POLISHED BRASS, HEÄVY DUTY ANGLE STOPS, 10 MM (3/8") I.P.S. INLET X 76 MM (3") LONG RIGID HORIZONTAL NIPPLES, V.P. LOOSE KEYS, ESCUTCHEON AND FLEXIBLE COPPER RISERS. MCGUIRE #8912CB P-TRAP, HEAVY CAST BRASS ADJUSTABLE BODY, WITH SLIP NUT, 38 MM (1-1/2") SIZE, BOX FLANGE AND SEAMLESS TUBULAR WALL BEND.





ISSUED FOR TENDER/PERMIT FEB 25, 2020 ISSUED FOR REVIEW FEB 19, 2020

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> REGAL CONSULTING ENGINEERS INC. 2828 Kingsway Drive, Suite 201, Oakville, Ontario L6J 7M2

EEC- STE. CROIX DAYCARE INTERIOR RENOVATIONS

TINY, ON



CONSEIL SCOLAIRE CATHOLIQUE MONAVENIR 110 DREWRY AVENUE TORONTO, ON

MECHANICAL SPECIFICATIONS - 2

AS NOTED MAY 2018

\bigcirc	FIXTURE TYPE "A1"
<u> </u>	15A, 125V SINGLE POLE SWITCH, $\$_2$ (TWO POLE), $\$_3$ (3-WAY), $\$_4$ (4-WAY), $\$_6$ (KEY OPERATED), $\$_5$ (0-10V DIMMER), $\$_{03}$ (0-10V DIMMER, 3-WAY),
\$	\$4 (4-WAY), $\$_{\mbox{\tiny ζ}}$ (KEY OPERATED), $\$_{\mbox{\tiny D}}$ (0-10V DIMMER, 3-WAY), \$\\$\\$\\$\\$\\$\\$\\$\\$\\$\\$\\$\\$\\$\\$\\$\\$\\$\\$\
	ELECTRICAL PANEL
Ø	SINGLE VOICE/DATA OUTLET MOUNTED AT TYPICAL HEIGHT WITH SINGLE GANG BACK BOX AND 21mr CONDUIT C/W PULL STRING TO ACCESSIBLE CLG SPACE ABOVE COUNTER OR AT HEIGHT.
XX	TWO VOICE/DATA OUTLET MOUNTED AT TYPICAL HEIGHT WITH DOUBLE GANG BACK BOX AND 21mm CONDUIT C/W PULL STRING TO ACCESSIBLE CLG SPACE ABOVE COUNTER OR AT HEIGHT.
∇	SINGLE VOICE/DATA OUTLET MOUNTED AT TYPICAL HEIGHT WITH SINGLE GANG BACK BOX AND 21mm
∇	CONDUIT C/W PULL STRING TO ACCESSIBLE CLG SPACE TWO VOICE/DATA OUTLET MOUNTED AT TYPICAL HEIGHT WITH DOUBLE GANG BACK BOX AND 21mm
$ abla_{WAP}$	CONDUIT C/W PULL STRING TO ACCESSIBLE CLG SPACE WIRELESS ACCESS POINT C/W 21MM CONDUIT.
	TELEPHONE OUTLET C/W 21MM CONDUIT.
*	TELEPHONE OUTLET MOUNTED AT 1500MM A.F.F C/W 21MM CONDUIT.
▽	TELEPHONE/DATA OUTLET C/W 21MM CONDUIT.
▼	DATA OUTLET C/W 21MM CONDUIT.
	<u> </u>
	DOOR OPERATOR FIRE ALARM BELL
	FIRE ALARM PULL STATION C/W LEXAN COVER & WITH A BATTERY BUZZER
	FLUSH WALL OR CEILING MOUNTED FIRE ALARM HORN & STROBE
FO	REMOTE TROUBLE BUZZER C/W VISUAL SIGNAL
•	AUTOMATIC RATE OF RISE HEAT DETECTOR AT 135° F
⊗	AUTOMATIC FIXED TEMPERATURE HEAT DETECTOR AT 157° F
•	PHOTOELECTRIC TYPE SMOKE DETECTOR UNLESS NOTED OTHERWISE
€ □	DUCT TYPE SMOKE DETECTOR WITH REMOTE ANNUNCIATOR
	FIRE ALARM SYSTEM REMOTE ANNUNCIATOR
	FIRE ALARM CONTROL PANEL
RB WR	RELAY BASE WIRE GUARD
8 _c	CARBON MONO-OXIDE DETECTOR
X X	SURFACE OR RECESS MOUNTED LIGHTING FIXTURE. LETTER DENOTES TYPE
	LIGHTING FIXTURE ON NIGHT LIGHT CIRCUIT
	SURFACE OR RECESS MOUNTED LIGHTING FIXTURE. LETTER DENOTES TYPE
<u> </u>	DIRECT HARDWIRE CONNECTION
J	JUNCTION BOX
	CUREAGE MOUNTED CTRIP LED HOUTING FIVEIRE LETTER REMOTES TYPE
	SURFACE MOUNTED STRIP LED LIGHTING FIXTURE. LETTER DENOTES TYPE
OS6 OS6	OCCUPANCY SENSOR, WATT STOPPER DT-355
<u>030</u>	WALL MOUNT PIR OCCUPANCY SENSOR, WATT STOPPER PW-100
Φ Φ	EMERGENCY LIGHTING FIXTURE
EX	EXIT SIGN
	BATTERY
	EMERGENCY LIGHTING FIXTURE AND BATTERY
	EMERGENCY LIGHTING FIXTURE, BATTERY AND EXIT SIGN
X	TRANSFORMER
AC	ABOVE COUNTER
AFF	ABOVE FINISHED FLOOR
СВ	CIORCUIT BREAKER
GFI	EQUIPMENT SO NOTED TO BE SUPPLIED WITN GROUND FAULT CIRCUIT INTERRUPT
	AT HIGHER LOCATION
Н	
T	TRANSFORMER FLECTRICAL CABINET LINIT HEATER
ECUH	ELECTRICAL CABINET UNIT HEATER
W	WALL MOUNT — VERIFY HEIGHT
MIR .	MOTOR CONNECTION (SINGLE OR THREE PHASE) 15A, 120V TAMPER-RESISTANT DUPLEX RECEPTACLE
<u></u>	15 A, 120V DUPLEX RECEPTACLE. (DH (HIGHER DUPLEX RECEPTACLE). (DL (LOWER DUPLEX RECEPTACLE)
Ф	⊕CLG (CEILING MOUNTED RECEPTACLE) EXACT LOCATION TO BE CONFIRMED BY OWNER.
	15A, 120V HALF SWITCHED DUPLEX RECEPTACLE.
#	15A, 120V DUPLEX RECEPTACLE MOUNTED ABOVE COUNTER.
Фт	20A, 120V T-SLOT DUPLEX RECEPTACLE.
Ф	20A, 120V T-SLOT DUPLEX RECEPTACLE FLOOR TYPE
Ф	15A, 120V DUPLEX GROUND FAULT INTERRUPTER RECEPTACLE.
	15A, 120V DUPLEX GROUND FAULT INTERRUPTER RECEPTACLE MOUNTED ABOVE COUNTER OR AT HEIGHT.
•	15A, 120V ISOLATED GROUND DUPLEX RECEPTACLE WITH SEPARATE NEUTRAL & GROUND WIRE PER
₩ Ø	CIRCUIT. 15A, 120V ISOLATED GROUND DUPLEX RECEPTACLE WITH SEPARATE
••	NEUTRAL & GROUND WIRE PER CIRCUIT MOUNTED ABOVE COUNTER. QUAD RECEPTACLE 20AMPS, 120V.
**	
Φ	NEMA 14-50R RECEPTACLE
↔	NEMA 14-30R RECEPTACLE
	OUTLET FOR RUCH TO LOCK
PL	OUTLET FOR PUSH TO LOCK
PUL	OUTLET FOR PUSH TO UNLOCK

SL	STROBE LIGHT FOR EMERGENCY RESPONSE SYSTEM
PU	PATIENT UNIT FOR EMERGENCY RESPONSE SYSTEM
OL	OCCUPIED LIGHT FOR EMERGENCY RESPONSE SYSTEM
ERS	EMERGENCY RESPONSE SYSTEM
	OUTLET FOR CLOSED CIRCUIT CAMERA
K	SECURITY MOTION SENSOR
€	NEMA 6-20R RECEPTACLE
	PUBLIC ADDRESS SYSTEM. C/W 21MM CONDUIT
MS	AIPHONE MASTER STATION JM-4MED
SMS	AIPHONE SUB MASTER STATION JM-4HD
VDS	AIPHONE VIDEO DOOR STATION JK-DV
PH	PAGING HANDSET C/W 21MM CONDUIT
REX	REQUEST FOR EXIT
DC	DOOR CONTACT
ES	ELECTRIC STRIKE
∅ □	MOTOR CONNECTION (SINGLE OR THREE PHASE) WITH FUSIBLE DISCONNECT
	FUSIBLE DISCONNECT

ELECTRICAL DRAWING LIST
E0.0 ELECTRICAL LEAD SHEET
E1.0 ELECTRICAL KEY PLAN
E2.0 DEMOLITION POWER FLOOR PLAN
E2.1 DEMOLITION FIRE ALARM & LIFE SAFETY FLOOR PLAN
E3.0 PROPOSED POWER FLOOR PLAN
E3.1 PROPOSED LIGHTING FLOOR PLAN
E3.2 PROPOSED FIRE ALARM FLOOR PLAN
E3.3 PROPOSED FIRE ALARM & LIFE SAFETY FLOOR PLAN
E4.0 PANEL SCHEDULE & SINGLE LINE DIAGRAM
E5.0 ELECTRICAL SCHEDULE

	LIGHTING FIXTURE SCHEDULE								
					LAMP			REMARKS	
TYPE	DESCRIPTION MAKE/MODEL VOL	VOLT	WATT	TYPE	COL.	MOUNT			
A	2'X2' RECESSED LED PANEL C/W STANDARD 0-10V DIMMING DRIVER & MOUNTING ACCESSORIES	LITELINE LEDPH-22-WH-40-20-2 ALTERNATE: PEERLESS, METALUMEN AND GE	120- 277	20	LED	4000	CEILING RECESSED	CLASSROOM	
В	2'X4' RECESSED LED PANEL C/W STANDARD 0-10V DIMMING DRIVER & MOUNTING ACCESSORIES	LITELINE LEDPH-24-WH-40-30-2 ALTERNATE: PEERLESS, METALUMEN AND GE	120- 277	30	LED	4000	CEILING RECESSED	CLASSROOM	
С	1'X4' SURFACE FIXTURE	PEERLESS ELECTRIC LXHL-14-32-40K-12-05-MV EQUALS: VISIONEERING, LITHONIA AND GE	120- 277	29	LED	4000	SURFACE MOUNTED	STAGE LIFT	

GENERAL NOTES

- DO NOT SCALE DRAWINGS FOR INSTALLATION PURPOSES. ALL MEASUREMENTS ARE TO BE OBTAINED FROM ARCHITECTURAL PLANS, ELEVATIONS, AND FROM FIELD MEASUREMENTS.
- DIVISION 16 SHALL REFER TO ARCHITECTURAL & MECHANICAL DRAWINGS FOR ALL SCOPE OF WORK OF DIVISION 16 WHICH ARE RELATED TO OTHER TRADES
- ELECTRICAL AND MECHANICAL TRADES SHALL WORK IN CONJUNCTION WITH ONE ANOTHER, SO AS TO AVOID INTERFERENCES AND TO MAINTAIN MINIMUM CLEARANCES BETWEEN DUCTWORK, PIPING, CONDUIT AND LIGHTING FIXTURE.
- REVIEW ARCHITECTURAL DRAWINGS FOR FIRE RATED WALLS, AND CEILINGS AND PROVIDE NECESSARY FIRE STOPPING AS REQUIRED. WORK IN CONJUNCTION WITH REFLECTED CEILING PLANS WHEN LOCATING LIGHT FIXTURES.
- WORK IN CONJUNCTION WITH MECHANICAL DIFFUSER LAYOUT WHEN LOCATING SMOKE DETECTORS. PROVIDE AND INCLUDE FOR ALL NECESSARY ACCESSORIES AND FITTINGS FOR A FULL AND COMPLETE INSTALLATION OF LIGHTING
- FIXTURES, INCLUDING CEILING TRIMS AND FRAMES TO SUIT CEILING. REFER TO ARCHITECTURAL CEILING SCHEDULE FOR CEILING TYPES.

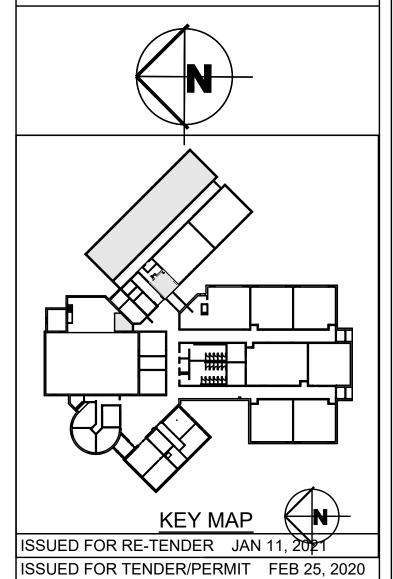
 3. LIGHTING BALLASTS AND DIMMERS SHALL BE COMPATIBLE WITH THE LIGHTING SOURCE AND LIGHTING FIXTURES BEING CONTROLLED
- AND INSTALLED. PROVIDE EACH ITEM MENTIONED OR INDICATED OF QUALITY AND SUBJECT TO QUALIFICATIONS NOTED; PERFORM ACCORDING TO CONDITIONS STATED EACH OPERATIONS STATED. EACH OPERATION PRESCRIBED; AND PROVIDE THEREFORE ALL LABOR, MATERIAL,
- EQUIPMENT, INCIDENTALS AND SERVICES REQUIRED TO COMPLETE THE INSTALLATION.
- 10. SCHEDULE AND COORDINATE ALL WORK WITH OTHER TRADES.

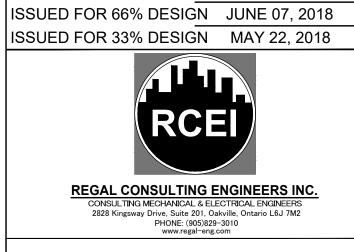
 11. CONTRACTOR SHALL BALANCE CIRCUIT LOADS AS CLOSELY AS POSSIBLE.

 12. CONTRACTOR SHALL PERFORM VOLTAGE DROP CALCULATIONS FOR ALL BRANCH CIRCUITS OF LIGHTING, POWER AND FEEDERS AND SHALL MAINTAIN VOLTAGE DROP WITHIN PERMISSIBLE LIMITS AS PER OESC REQUIREMENTS AND PROVIDE PROPER WIRE SIZES ACCORDINGLY PRIOR TO COMMENCING ROUGH-IN INSTALLATION. THE VOLTAGE DROP CALCULATIONS SHALL BE BASED ON MAXIMUM
- 13. ALL CONDUITS BACKBOXES AND ROUGH-IN FOR LOW VOLTAGE SYSTEMS SHALL BE PROVIDED BY ELECTRICAL CONTRACTOR.

 14. DIVIDEN 16 TO PROVIDE CONDUIT & WIRING FOR ALL ELECTRICAL & MECHANICAL EQUIPMENT FOR A COMPLETE OPERATIONAL
- 15. ELECTRICAL CONTRACTOR IS RESPONSIBLE TO PROVIDE ALL THE ROUGH INS REQUIRED FOR DIVISION 15 SCOPE OF WORK (UNLESS NOTED OTHERWISE) INCLUDING CONDUITS, BACK BOXES, JUNCTION BOXES, PULL WIRES, ETC. ELECTRICAL CONTRACTOR SHALL REFER TO DIVISION 15 DRAWINGS AND SPECS FOR MORE INFORMATION AND SHALL INCLUDE ALL COSTS ASSOCIATED RELATED TO
- THE ROUGH INS IN HIS TENDER PRICE. 6. REFER TO DOOR HARDWARE SCHEDULE FOR ROUGH IN REQUIREMENT AND PROVIDE ALL NECESSARY FOR FULL OPERATIONAL
- SYSTEM TO COMPLY ACCORDINGLY. 7. ELECTRICAL CONTRACTOR SHALL PROVIDE SUPPORTING SYSTEM TO SUPPORT ALL LIGHT FIXTURES ONLY FROM THE JOIST OR STEEL BEAMS (NOT FROM THE ROOF DECK).
- 18. ALL ELECTRICAL EQUIPMENT THAT IS SUSPENDED SHALL BE SUPPORTED BY A SYSTEM THAT IS CERTIFIED BY THE MANUFACTURER TO CARRY THE LOADS OF THE EQUIPMENT. IF NO SYSTEM IS RECOMMENDED BY THE MANUFACTURER, THE CONTRACTOR SHALL PROVIDE A DESIGN STAMPED BY A P.ENG. THESE ITEMS SHALL INCLUDE BUT NOT LIMITED TO LIGHTING, TRANSFORMER, HEATERS, AND ALL SIMILAR ELECTRICAL EQUIPMENT. INSTALL IN ACCORDANCE WITH MANUFACTURER'S OR P.ENG DESIGN.
- 19. PROVIDE 3/4" EMT CONDUIT FROM EACH VOICE/DATA OUTLET TO THE PLYWOOD BACKBOARD LOCATED IN THE ELEC/IT ROOM 20. PROVIDE STAINLESS STEEL COVER PLATES FOR ALL WIRING DEVICES UNLESS NOTED OTHERWISE.







ISSUED FOR REVIEW FEB 19, 2020

ISSUED FOR REVIEW JAN 23, 2020

ISSUED FOR PERMIT JULY 05, 2018

ISSUED FOR TENDER JULY 05, 2018

ISSUED FOR 80% DESIGN JUNE 15, 2018

EEC- STE. CROIX DAYCARE INTERIOR RENOVATIONS

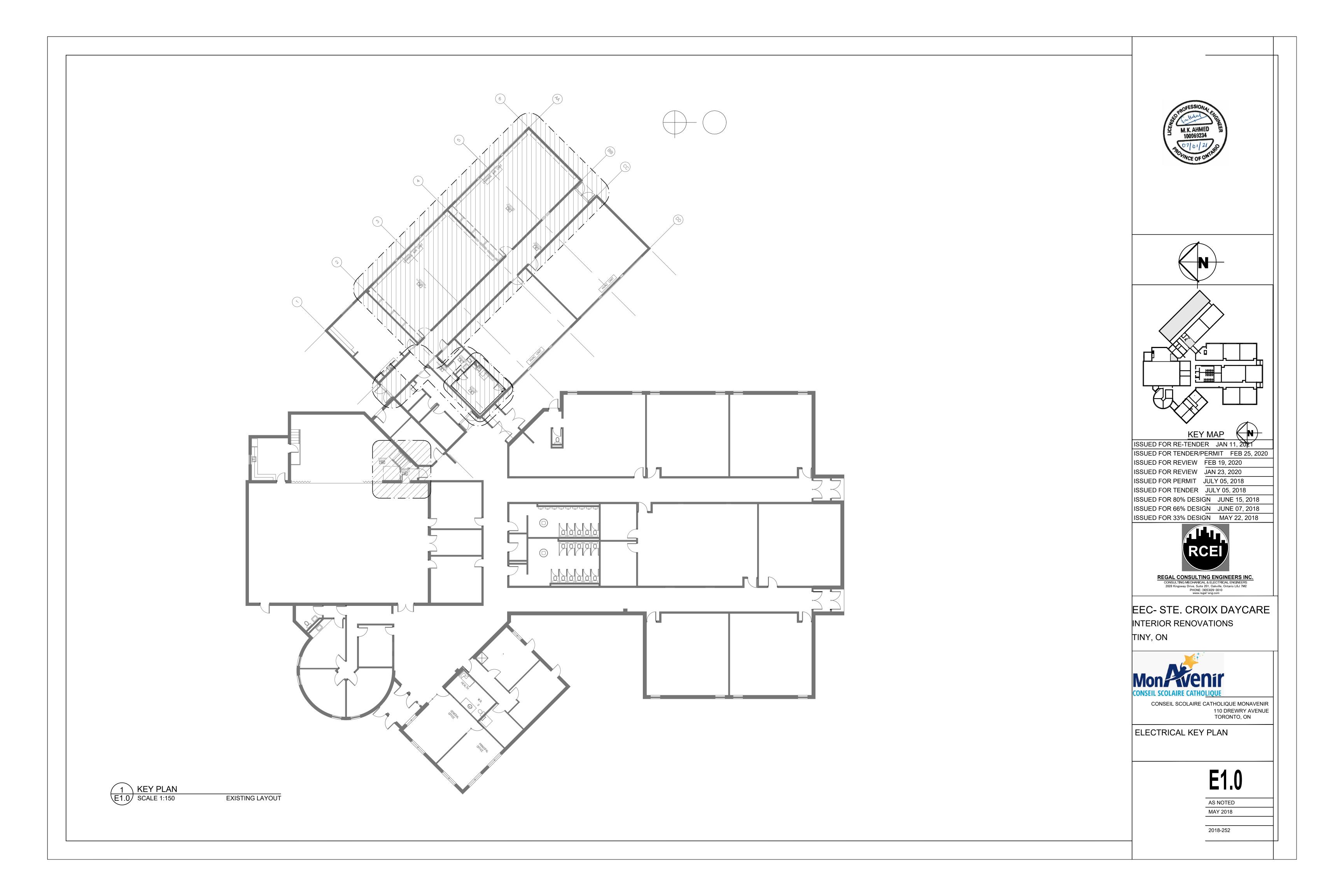
TINY, ON

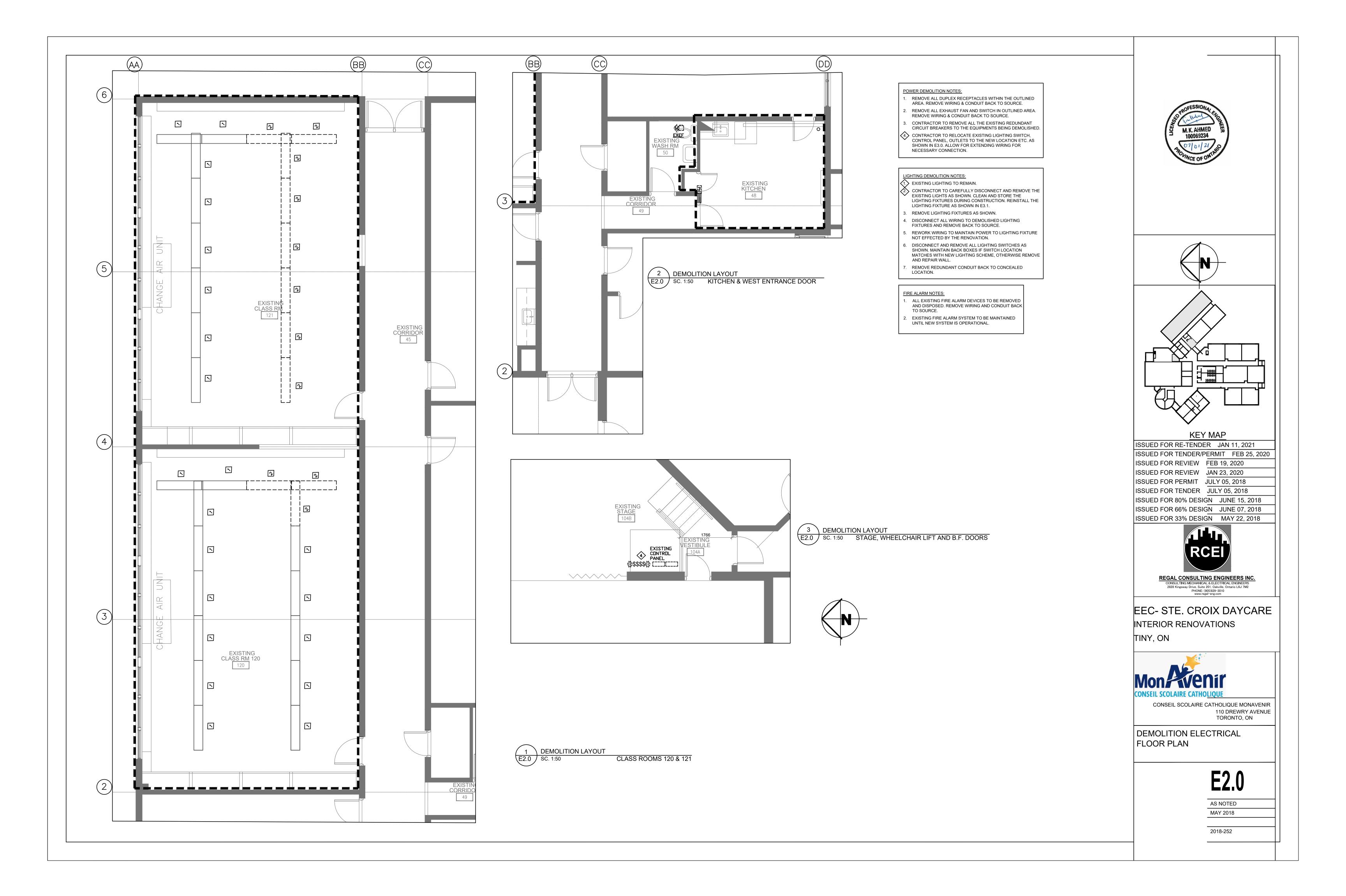


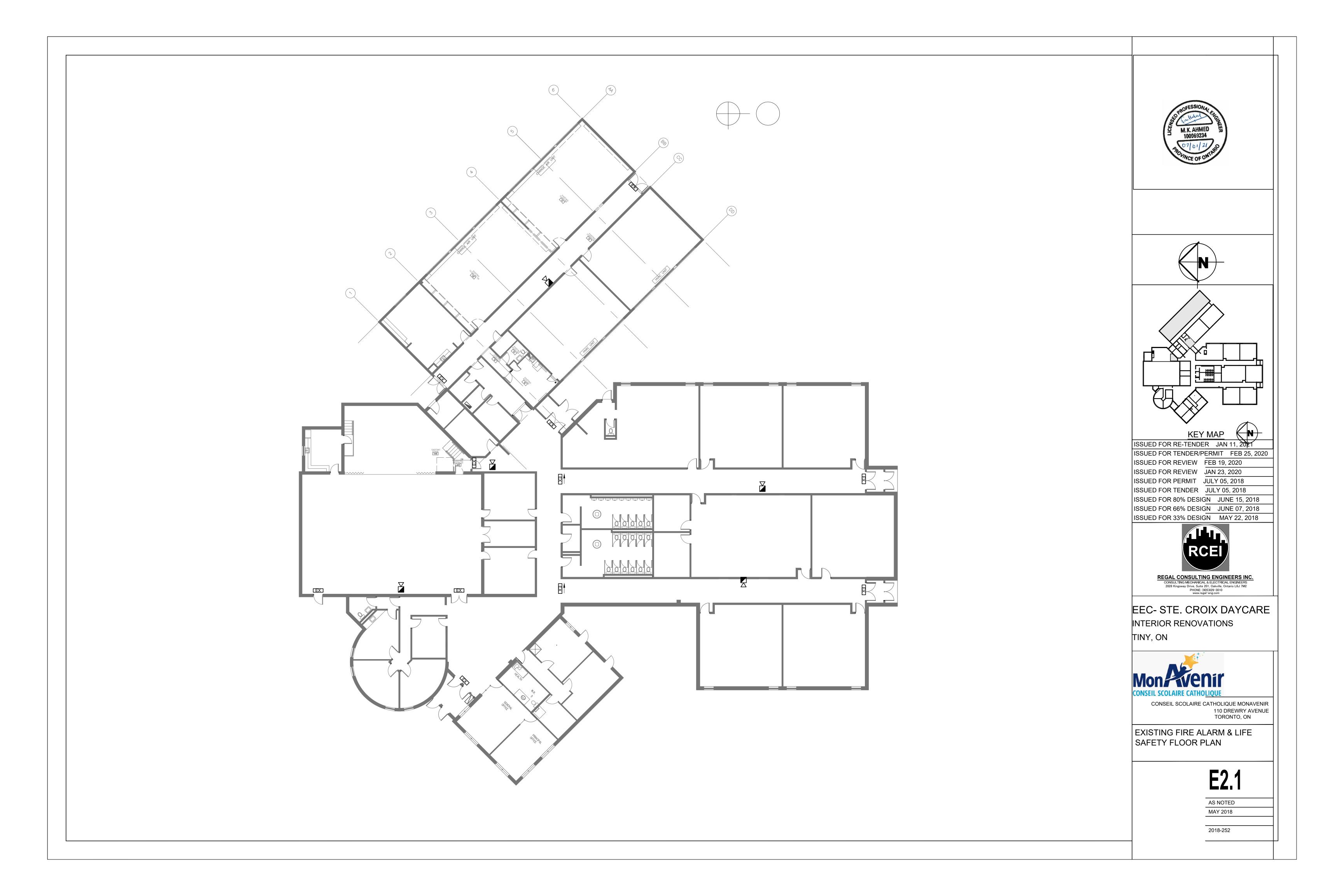
CONSEIL SCOLAIRE CATHOLIQUE MONAVENIR 110 DREWRY AVENUE TORONTO, ON

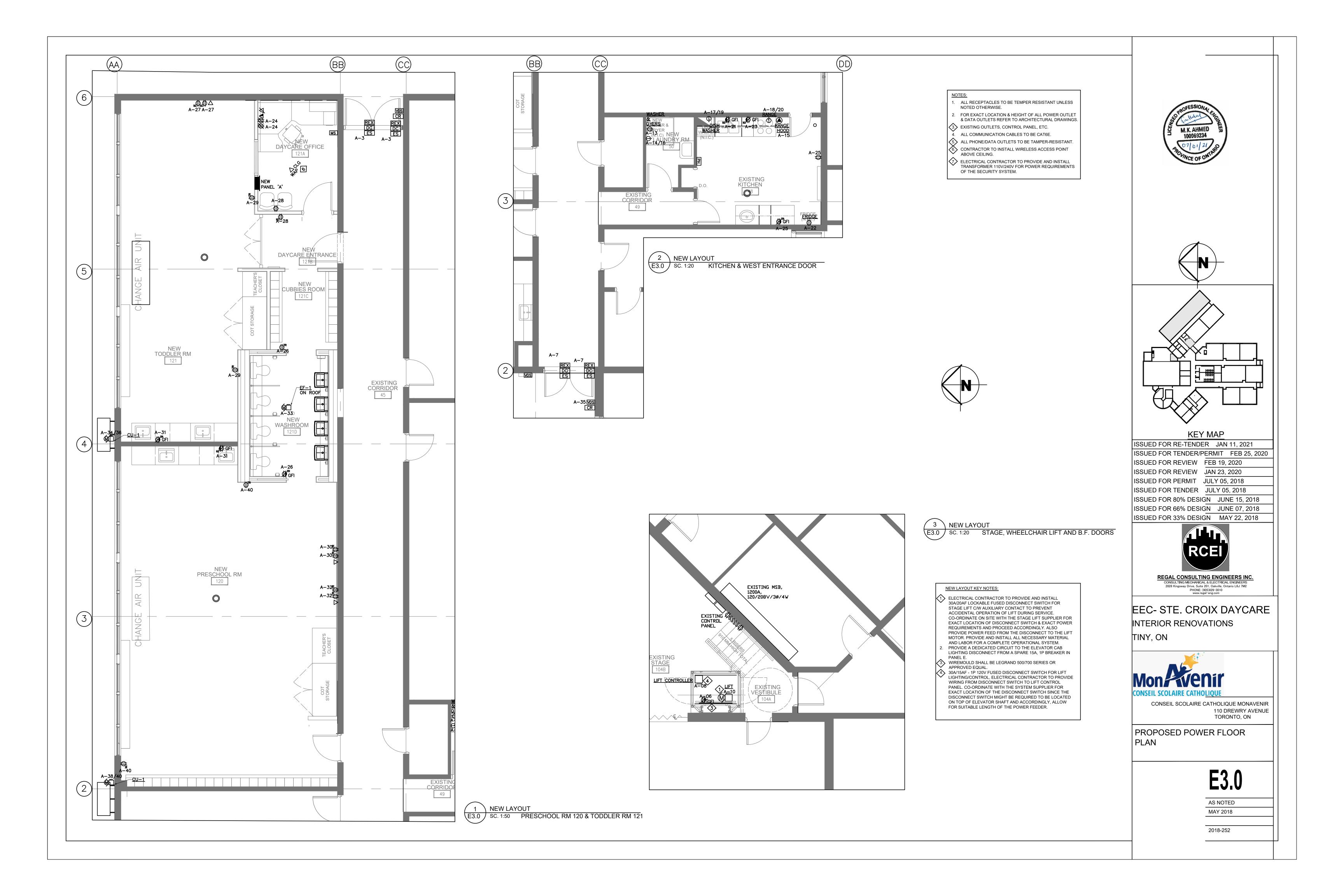
ELECTRICAL LEAD SHEET

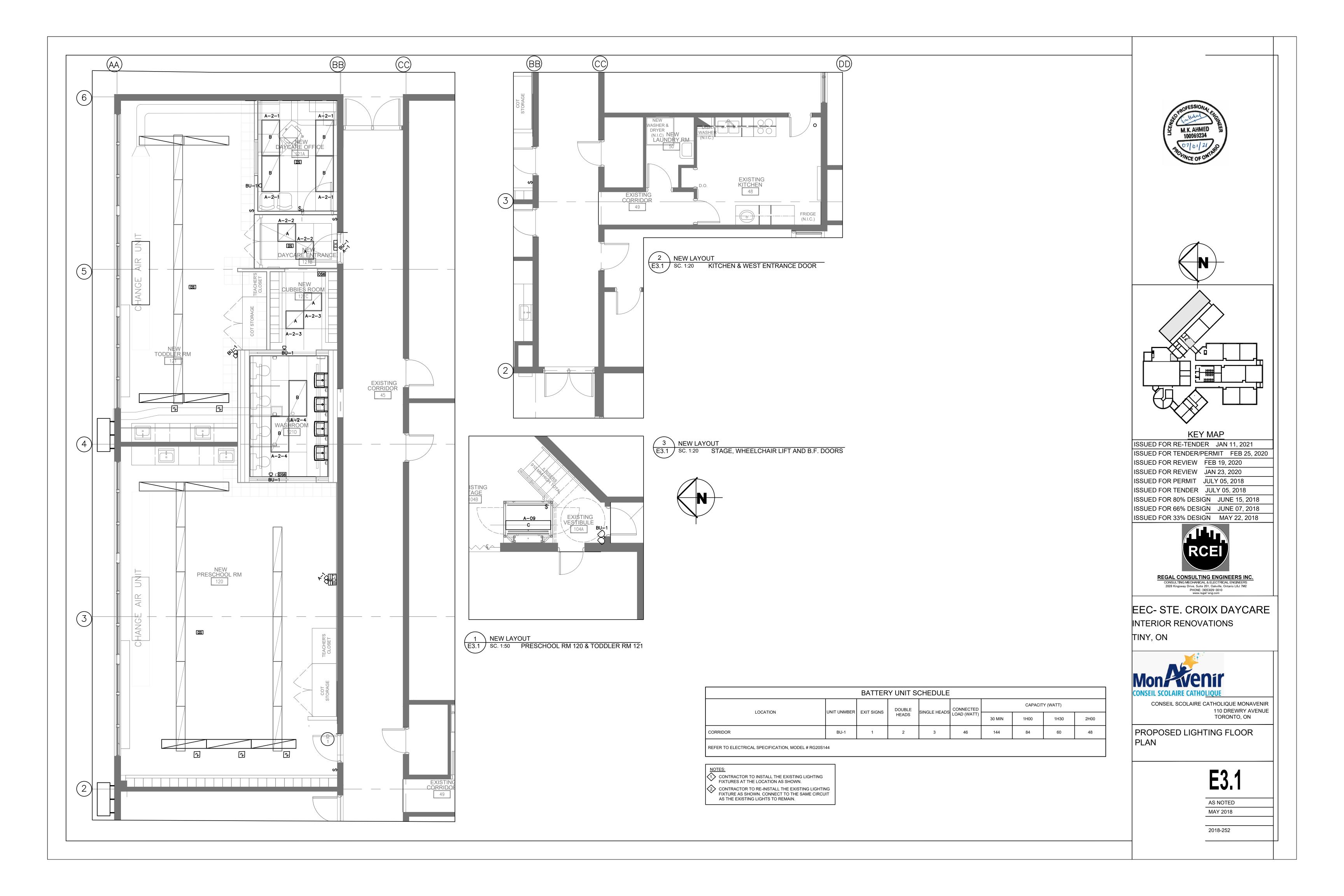
AS NOTED MAY 2018

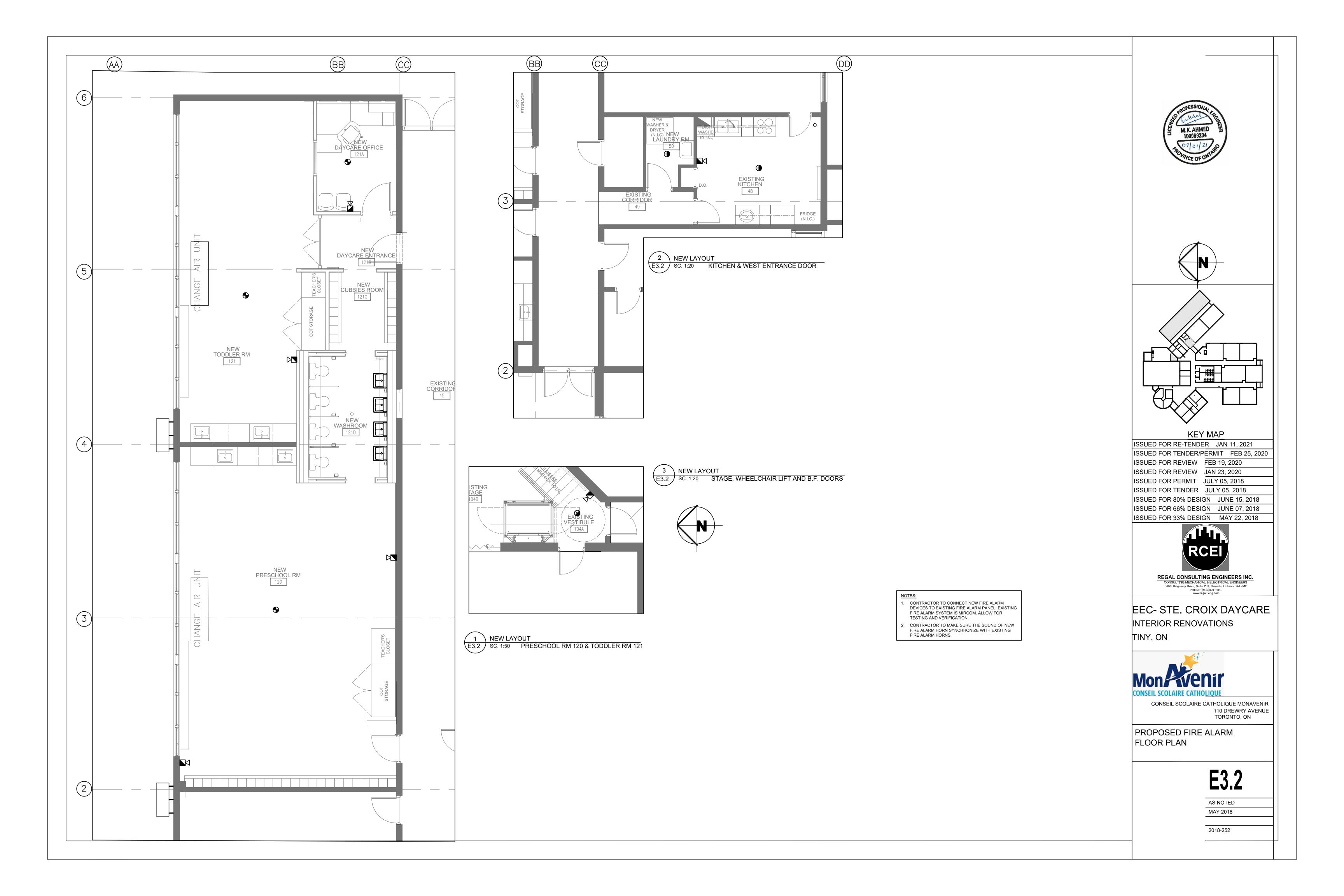


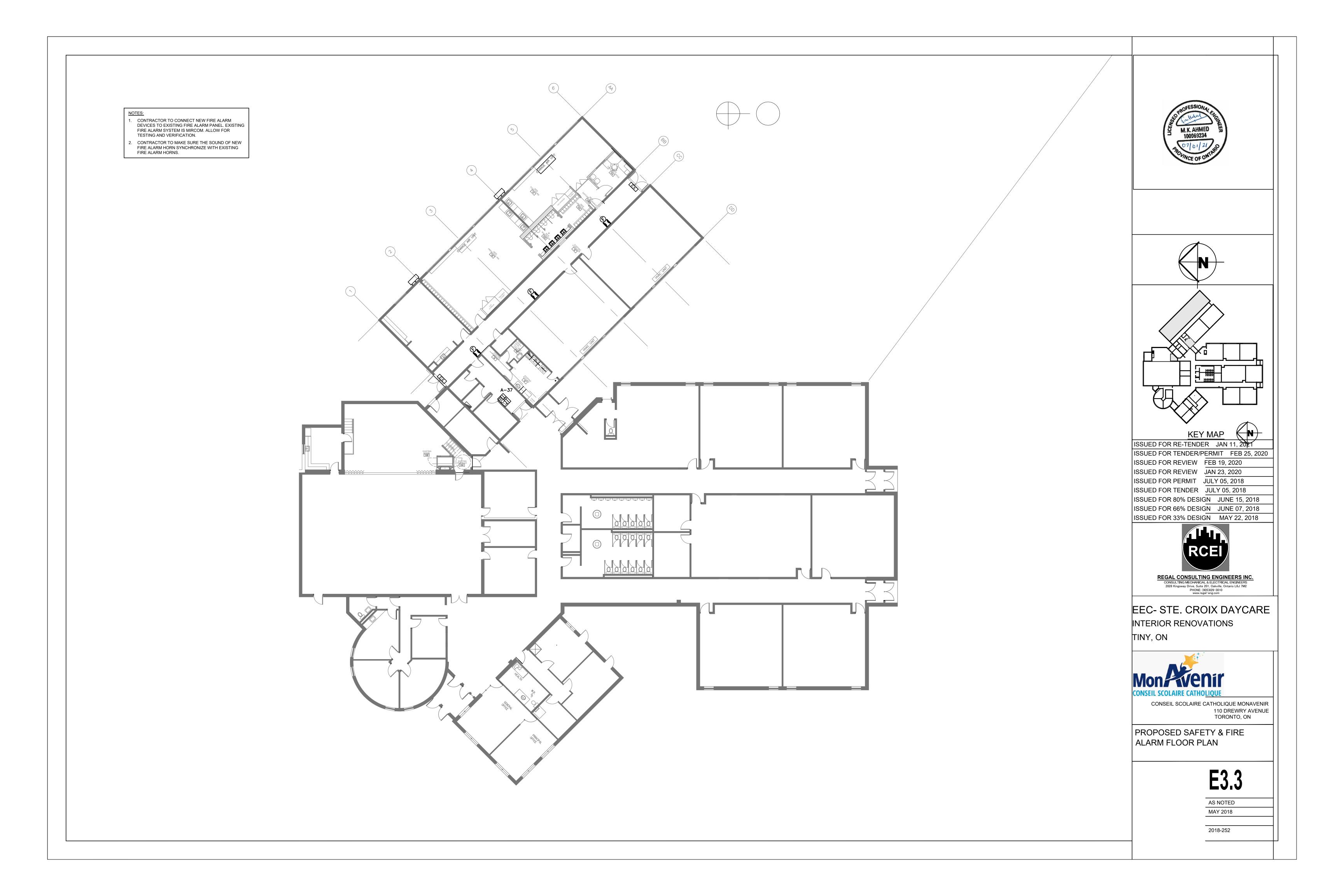


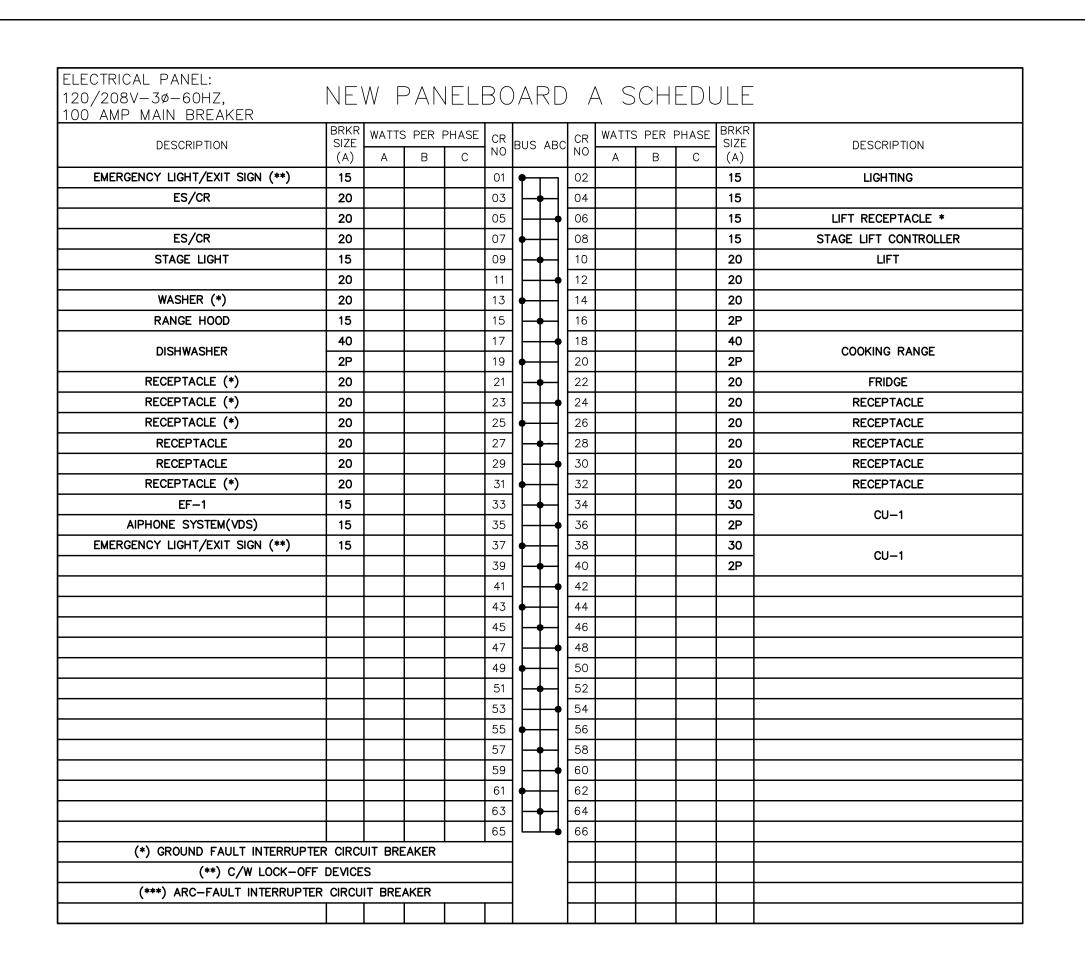


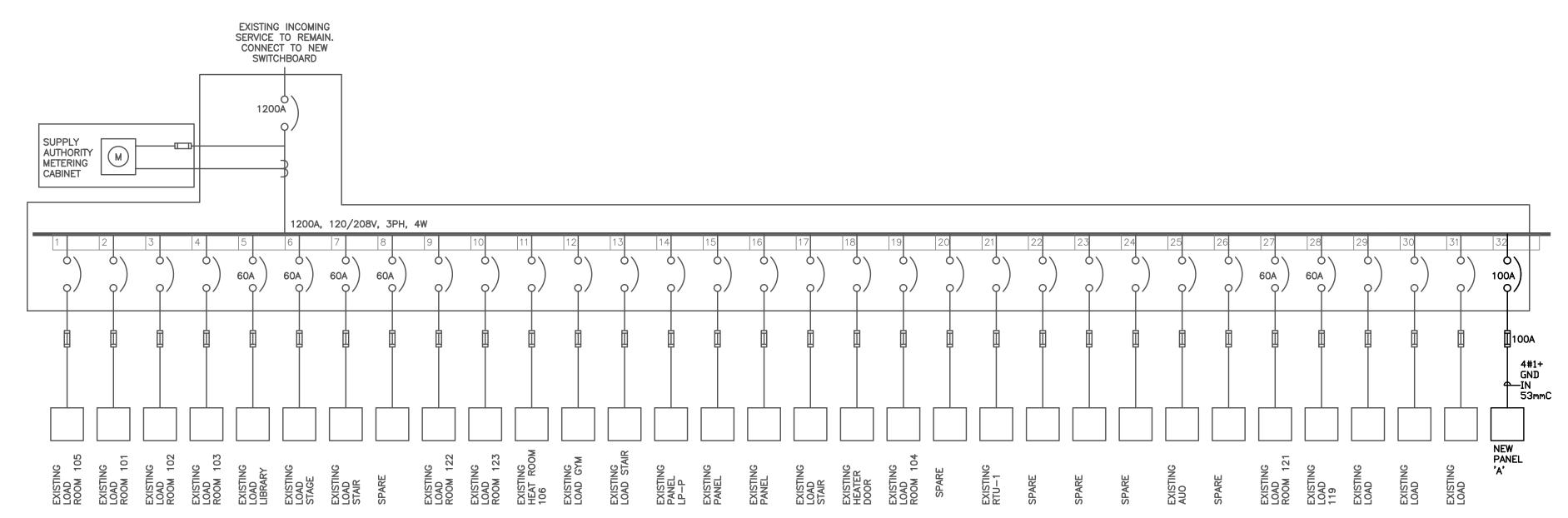






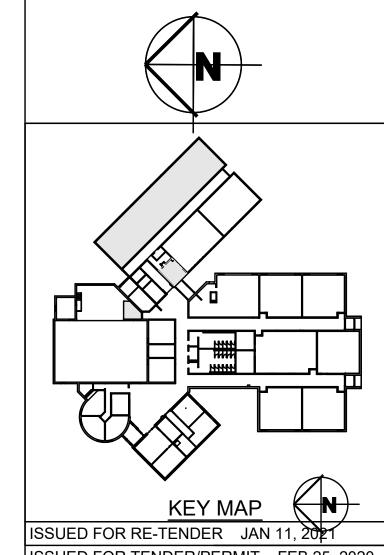






SINGLE LINE DIAGRAM





ISSUED FOR TENDER/PERMIT FEB 25, 2020
ISSUED FOR REVIEW FEB 19, 2020
ISSUED FOR REVIEW JAN 23, 2020
ISSUED FOR PERMIT JULY 05, 2018

ISSUED FOR PERMIT JULY 05, 2018
ISSUED FOR TENDER JULY 05, 2018
ISSUED FOR 80% DESIGN JUNE 15, 2018
ISSUED FOR 66% DESIGN JUNE 07, 2018
ISSUED FOR 33% DESIGN MAY 22, 2018



EEC- STE. CROIX DAYCARE
INTERIOR RENOVATIONS

TINY, ON



CONSEIL SCOLAIRE CATHOLIQUE MONAVENIR 110 DREWRY AVENUE TORONTO, ON

| ELECTRICAL SCHEDULES & SLD

E4.0

AS NOTED
MAY 2018

ELECTRICAL SPECIFICATION

SUPPLY LABOUR, TOOLS, SERVICES, EQUIPMENT AND PROVIDE MATERIALS REQUIRED TO COMPLETE WORK IN ACCORDANCE WITH THIS SPECIFICATION AND DRAWINGS. COMPLY WITH LAWS, REGULATIONS AND CODES OF AUTHORITIES HAVING JURISDICTION. CONFORM TO REQUIREMENTS OF BIDDING DOCUMENTS AND DIVISION 1.

EXAMINATION OF SITE AND DOCUMENTS

PROVIDE TO SUBMITTING BID, CAREFULLY EXAMINE CONDITIONS AT SITE WHICH WILL OR MAY AFFECT WORK, DRAWINGS AND SPECIFICATION AND BECOME FAMILIAR WITH BUILDING CONSTRUCTION, FINISHES AND OTHER WORK ASSOCIATED WITH WORK IN ORDER THAT BID INCLUDES FOR EVERYTHING NECESSARY FOR COMPLETION OF WORK.

PERMITS, CERTIFICATES AND FEES

1. I PAY FOR AND OBTAIN PERMITS TO COMPLETE WORK. WHEN WORK IS COMPLETE. SUPPLY AND TURN OVER INSPECTION CERTIFICATES FROM GOVERNING AUTHORITIES TO CONSULTANT. PAY FEES AND CHARGES LEVIED BY MUNICIPALITY AND OTHER GOVERNING AUTHORITIES FOR PERMITS. INSPECTIONS AND CERTIFICATES. KEEP COPY OF SUCH PERMITS AND CERTIFICATES, ETC. ON

CO-ORDINATION AND CO-OPERATION

- 1. ELECTRICAL CONTRACTOR TO CO-ORDINATE HIS WORK WITH WORK OF ALL TRADES TO ENSURE A PROPER AD COMPLETE INSTALLATION. NOTIFY ALL TRADES CONCERNED OF REQUIREMENT FOR OPENINGS, SLEEVES, INSERTS AND OTHER HARDWARE NECESSARY IN THEIR WORK FOR INSTALLATION OF HIS WORK AND WHERE HIS WORK IS TO BE INTEGRATED WITH WORK OF OTHER TRADES OR IS TO BE INSTALLED IN CLOSE PROXIMITY WITH WORK OF OTHER TRADES. CAREFULLY CO-ORDINATE WORK PRIOR TO AND DRIVING
- 2. EXACT LOCATIONS AND ROUTING OF SERVICES MUST BE PROPERLY PLANNED CO-ORDIANTED AND ESTABLISHED WITH ALL AFFECTED TRADES PRIOR TO INSTALLATION SUCH THAT THEY WILL CLEAR EACH OTHER AS WILL AS ANY OBSTRUCTIONS. GENERALLY. PIPING REQUIRING UNIFORM PITCH SHALL BE GIVEN RIGHT OF WAY WITH OTHER SERVICE LOCATED AND ARRANGED TO SUIT.

1. WORK WHICH MAY CAUSE NOISE DISTURBANCES MUST BE SCHEDULED AT TIMES APPROVED BY CONSULTANT. CO-ORDINATE WORK WITH TPADES TO MINIMIZE

1. DURING CONSTRUCTION, KEEP SITE REASONABLY CLEAR OF RUBBISH ANI WASTE MATERIAL RESULTING FORM WORK ON DAILY BASIS. AFTER COMPLETION OF WORK, REMOVE RUBBISH AND DEBRIS, ARRANGE AND PAY FOR REPAIR OF DAMAGES CAUSED AND LEAVE PREMISES AND WORK IN GOOD ORDER.

1. PROPERLY PROTECT AND STORE ALL EQUIPMENT AND MATERIAL ON SITE FROM DAMAGE CONTRACTOR SHALL BE RESPONSIBLE FOR SAFE STORAGE OF ALL EQUIPMENT AND GOODS TO BE RELOCATED AND SHALL REPAIR OR REPLACE DAMAGED EQUIPMENT AND GOODS AT DISCRETION OF OWNER..

- 1. CONSULTANT SHALL AT ALL TIMES HAVE ACCESS TO WORK AND SHALL BE NOTIFIED AT AGREED UPON TIMES OF STAGES OF WORK. 2. CONTRACTOR SHALL GIVE CONSULTANT TIMELY NOTICE OF DATE (WITHIN 48 HOURS AFTER PERFORMANCE) WHEN FOLLOW STAGES OF WORK HAVE BEEN
- WHEN 33% OF WORK HAS BEEN COMPLETED: WHEN 66% OF WORK HAS BEEN COMPLETED: WHEN 95% OF WORK HAS BEEN COMPLETED:
- UPON SUBSTANTIAL PERFORMANCE OF WORK. WHERE STANDARDS OF WORK ARE SPECIFIED OR IMPLIED AND WORK DOES NOT COMPLY WITH PERFORMANCE SPECIFIED OR IMPLIED . SUCH DEFICIENCY SHALL BE CORRECTED AS DIRECTED BY CONSULTANT. ANY SUBSEQUENT TESTING TO VERIFY PERFORMANCE SHALL BE DOWN AT CONTRACTORS/ EXPENSE. AND CHARGE FOR OWNER'S STAFF CONSULTANT OR OTHER PERSONNEL RELATED TO SUCH RE-TESTING SUCH ALSO BE AT EXPENSE OF CONTRACTOR.

1. PRODUCTS LISTED AND/OR SPECIFIED ON CONTRACT DOCUMENTS ARE SELECTED TO ESTABLISH DESIGN STANDARDS. IN MOST CASES, ACCEPTABLE MANUFACTURERS ARE LISTED. BASE YOUR BID PRICE ON BASE SPECIFIED PRODUCTS OR PRODUCTS SUPPLIED FROM ACCEPTABLE MANUFACTURERS. ENSURE PRODUCTS SUPPLIED FROM MANUFACTURERS OTHER THAN BASE SPECIFIED MANUFACTURERS ARE EQUIVALENT TO SPECIFIED PRODUCTS. PROPOSED SUBSTITUTIONS OF MANUFACTURERS OF PRODUCTS MAY BE PROPOSED TO CONSULTANT FOR ACCEPTANCE, LISTING IN EACH CASE CORRESPONDING CREDIT. CONSULTANT HAS SOLE DISCRETION IN ACCEPTING ANY PROPOSED SUBSTITUTION. INCLUDE IN BID PRICE ANY ADDITIONAL PRODUCTS SUPPLY BY MANUFACTURER OTHER THAN BASE SPECIFIED MANUFACTURER.

WARRANTY

WARRANT WORK TO BE IN STRICT ACCORDANCE WITH CONTRACT DOCUMENTS AND FREE FROM DEFECTS FOR 1 YEAR PERIOD FROM DATE OF WRITTEN ACCEPTANCE BY CONSULTANT. REFER AND/OR REPLACE ANY SUCH DEFECTS WHICH APPEAR IN WORK WITHIN WARRANTY PERIOD, ORDINARY WEAR AND EAR AND WILFUL DAMAGE BY, OR CARELESSNESS OF OWNER'S STAFF OR AGENTS EXCEPTED. WITHOUT ADDITIONAL COSTS INCURRED IN MAKING DEFECTIVE WORK GOOD, INCLUDES REPAIR OR REPLACEMENT OF BUILDING FINISHES, OTHER MATERIALS OR DAMAGE TO OTHER EQUIPMENT CAUSED BY SUCH DEFECTS, OR BY SUBSEQUENT REPLACEMENT OR REPAIRS.

INTERRUPTIONS TO AND SHUTDOWNS OF EXISTING SERVICES AND SYSTEMS 1. CO-ORDINATE AND PERFORM SHUTDOWNS AND INTERRUPTIONS TO EXISTING

SYSTEMS AND SERVICES AT TIMES ACCEPTABLE TO OWNER. OBTAIN WRITTEN APPROVAL IN ADVANCE OF SHUTDOWN OR INTERRUPTION. INCLUDE FOR COSTS OF PREMIUM TIME TIM PERFORM WORK DURING NIGHTS, WEEKENDS OR OTHER TIME OUTSIDE OF NORMAL WORKING HOURS, AS NECESSARY TO MAINTAIN SERVICES IN OPERATION OR WITH MINIMUM INTERRUPTIONS AND TO INTERRUPTION WILL BE CARRIED OUT AS CONTINUOUS OPERATION TO MINIMIZE SHUTDOWN TIME AND TO REINSTATE SYSTEMS AS SOON AS POSSIBLE AND PRIOR TO SHUTDOWN, ENSURE MATERIALS AND LABOUR REQUIRED TO COMPLETE WORK FOR WHICH SHUTDOWN IS REQUIRED ARE AVAILABLE AT SITE.

DO CUTTING, PATCHING AND CORE DRILLING OF EXISTING BUILDING REQUIRED

- FOR INSTALL OF WORK. PERFORM CUTTING TO NEAT AND TRUE FASHION, WITH PROPER TOOLS AND EQUIPMENT TO OWNER'S APPROVAL. 2. IN FIRE RATED CONSTRUCTION PACK AND SEAL VOID BETWEEN OPENING AND CONDUIT FOR LENGTH OF OPENING WITH ASBESTOS-FREE ELASTOMERIC ULC LISTED AND LABELED MATERIALS. INSTALL FIRE-STOP AND SMOKE SEAL MATERIALS IN ACCORDANCE TO ULC CERTIFICATION AND MANUFACTURER'S REQUIREMENTS TO PROVIDE FIRE-STOP RATINGS OF OPENINGS IN ACCORDANCE
- WITH GOVERNING BUILDING CODE REQUIREMENTS. 3. DO NOT CUT OR DRILL EXITING WORK WITHOUT PRIOR OWNER'S APPROVAL. IN CONSULTATION WITH OWNER AND BY USE OF X-RAY WITH OWNER'S APPROVAL, DETERMINE PRESENCE OF EXISTING SERVICES AND PERFORMING ROD CONCEALED BEHIND SURFACE TO BE CUT, NOTE: ELECTRICAL CONTRACTOR WILL BE HELD RESPONSIBLE FOR DAMAGE DONE TO EXISTING BUILDING AND SERVICES CAUSED BY CUTTING OR DRILLING.

DISCONNECTION, REMOVAL AND RELOCATION . WHERE INDICATED ON DRAWINGS AND DETERMINED BY SITE VISIT, DISCONNECT

- AND REMOVE ITEMS OF EXISTING OBSOLETE ELECTRICAL WORK AND RELOCATE DEVICES, WHERE FIXTURES, SWITCHES, RECEPTACLES AND OTHER DEVICES AND/OR EQUIPMENT IS REMOVED. DISCONNECT AT POINT OF ELECTRICAL SUPPLY, REMOVE OBSOLETE WRING AND MAKE SYSTEM SAFE. WHERE EXISTING OBSOLETE CONDUIT AND SIMILAR RACEWAY MATERIAL CANNOT BE REMOVE. CUT BACK AND CAP OBSOLETE CONDUITS OR RACEWAYS. REVISE PANELBOARD DIRECTORIES ACCORDINGLY, IF AFFECTED BY WORK.
- UNLESS OTHERWISE NOTED, OBSOLETE MATERIALS WHICH ARE DISCONNECTED AND ARE NOT TO BE RELOCATED OR REUSED WILL BECOME THE PROPERTY OF THE ELECTRICAL CONTRACTOR REMOVE FROM SITE AND DISPOSE. OBTAIN FORM OWNER, LIST OF EXISTING ITEMS TO BE CAREFULLY REMOVED AND TURNED
- OVER TO OWNER, SAID ITEMS WILL REMAIN PROPERTY OF OWNER. PROVIDE JUNCTION BOXES, OUTLET BOXES, WIRING, PLATES, ETC., AS NECESSARY FOR COMPLETE RELOCATION OF DEVICES. CLEAN AND RE-LAMP

- RELOCATED LUMINARIES. REPLACE FAULTY BALLASTS. WHEN RELOCATION WORK IS COMPLETE, CONFIRM RELOCATED DEVICES ARE IN PROPER ORDER. WHERE EXISTING SERVICES PASS THROUGH OR ARE IN AN AREA TO SERVE ITEMS WHICH ARE TO REMAIN, MAINTAIN SERVICES. INCLUDE FOR RE-ROUTING
- EXISTING SERVICES CONCEALED BEHIND FINISHES AND WHICH BECOME EXPOSED DURING RENOVATION WORK, SO AS TO BE CONCEALED BEHIND FINISHES. 5. IN AREAS WHICH ARE NOT BEING ARCHITECTURALLY RENOVATED AND WHICH DIVISION 16 MUST RUN SERVICES THROUGH, BE RESPONSIBLE FOR REMOVAL AND REINSTALLATION OF ARCHITECTURAL CEILINGS, MECHANICAL EQUIPMENT, SPRINKLERS, ETC., AS REQUIRED FOR INSTALLING OF ELECTRICAL CONTRACTOR'S WORK. PATCH AND MAKE GOOD (INCLUDING PAINTING) SURFACES TO MATCH EXITING.

1. AT ANY TIME DURING COURSE OF WORK ASBESTOS MATERIALS ARE ENCOUNTERED OR SUSPECTED. CEASE WORK IN AREA IN QUESTION AND IMMEDIATELY REPORT IN ACCORDANCE WITH ONTARIO REGULATION 654/85 (SECTION 7) TO CONSULTANT. DO NOT RESUME WORK IN AFFECTED AREA WITOUT APPROVAL FROM CONSULTANT.

RECORD DRAWINGS (AS-BUILTS)

1. I DRAWINGS FOR THIS PROJECT HAVE BEEN PREPARED ON A CAD SYSTEM. THE SOFTWARE USED IS AUTOCAD RELEASE 2000. COPIES OF DRAWINGS ON DISKS FOR USE IN PREPARING AS-BUILTS, MAY BE PURCHASED FROM CONSULTANT AT A COST OF \$40 CAD. PLUS GST PER DRAWING.

- 2. WHEN WORK BEGINS AT SITE, CLEARLY AND ACCURATELY MARK ON A BOUND SET OF WHITE PRINTS OF CONTRACT DRAWINGS ON A DAILY BASIS ALL CHANGES AND DEVIATION FROM ROUTING OF AND LOCATIONS OF EQUIPMENT SHOWN ON CONTRACT DRAWINGS CHANGE AND DEVIATION INCLUDING THOSE MADE BY ADDENDA, CHANGE ORDERS AND SITE INSTRUCTION, AND DEVIATIONS INCLUDING THOSE MADE BY ADDENDA, CHANGE ORDERS AND SITE INSTRUCTIONS, AND CHANGES AND DEVIATIONS INDICATED ON SUPPLEMENTAL DRAWINGS ISSUED WITH ADDENDA, CHANCE ORDERS AND SITE INSTRUCTIONS. MAINTAIN "AS-BUILT" WITH PRINTS AT SITE FOR PERIODIC INSPECTION BY CONSULTANT THROUGHOUT DURING OF WORK. PAY PARTICULAR ATTENTION TO ACCURATELY DIMENSIONING LOCATION OF ALL CONCEALED SERVICES TERMINATED FOR FUTURE EXTENSION, ALL BURIED WORK AND SERVICES AND
- WORK CONCEALED WITHIN BUILDING IN INACCESSIBLE LOCATIONS. WHEN WORK ENDS AT SITE, UPDATE A COPY OF CONTRACT DOCUMENT DRAWING DIS SET SO THAT IT REFLECTS ALL DEVIATIONS FROM ORIGINAL CONTRACT DOCUMENT DRAWIGNS, THUS FORMING A TRUE "AS-BUILT" DRAWING DIS SET, PROVIDE A SET OF REPRODUCIBLE MYLAR PRINTS OF CONTRACT DRAWINGS PRODUCED FROM TRUE "AS-BUILT" MYLAR PRINTS TO CONSULTANT. ALL SUBMITTED DRAWINGS SHALL BE OF THE SAME QUALITY AS ORIGINAL
- CONTRACT DOCUMENT DRAWINGS. 4. UPDATE OWNER'S DISTRIBUTION RISER DIAGRAMS POSTED IN ELECTRICAL ROOM.

SHOP DRAWINGS AND OPERATING & MAINTENANCE INSTRUCTION MANUALS 1. I SUBMIT SHOP DRAWINGS AND OPERATION & MAINTENANCE INSTRUCTION

- MANUALS FOR THE FOLLOWING: SPECIAL RECEPTACLES AND SWITCHES;
- LUMINARIES; TRANSFORMERS:
- DIMMERS: EMERGENCY LIGHTING BATTERY UNITS;
- FIRE ALARM SYSTEM COMPONENTS; PIPE TRACING AND ACCESSORIES;
- SURFACE METAL RACEWAY; ELECTRIC HEATING UNITS;
- 1.10 LOW VOLTAGE LIGHTING CONTROL COMPONENTS;
- 1.11 OUTSIDE LIGHTING CONTROL COMPONENTS; 1.12 ELECTRIC HEATING CABLE FOR PIPE TRACING;
- 1.13 FLOOR FITTINGS: 1.14 SNOW & DATA COMMUNICATION SYSTEM;
- 1.15 SERVICE POLES; 1.16 VOCE & POLES;
- 1.17 SECURITY SYTEM
- 1.18 NET WORK CABLING SYSTEM 2. PROPERLY IDENTIFY SHOP DRAWING FOR REVIEW AND SHOW IN DETAIL EQUIPMENT AND MATERIALS. ENDORSE EACH DRAWING, INCLUDE COMPANY NAME AND SUBMITTAL DATE. PROVIDE MANUALS AS INDEXED, IDENTIFIED HARD, COVER 3-RING BINDERS COMPLETE WITH:
- 2.1 A COPY OF EACH 'REVIEWED' SHOP DRAWING; EXPLANATIONS OF OPERATING PRINCIPLES AND SEQUENCES;
- PART LISTS WITH NUMBERS: RECOMMEND MAINTENANCE PRACTICES AND PRECAUTIONS; 2.5 COPIES OF INSPECTION CERTIFICATES ISSUED BY GOVERNING
- **AUTHORITIES:** 2.6 COPIES OF PANELBOARD DIRECTORIES. PROVIDE 2 SETS OF MANUALS. CONFIRM EXACT QUANTITY AND METHOD OF

GENERAL CONDUIT AND CONDUCTOR INSTALLATION REQUIREMENTS

- INSTALL CONDUIT AND CONDUCTORS CONCEALED TO DEGREE MADE POSSIBLE BY FINISHES AND PROVED INSTALLATIONS IN ACCORDANCE WITH ELECTRICAL SAFETY CODE AND LOCAL GOVERNING AUTHORITIES. PLAN AND CO-ORDINATE LOCATIONS AND ROUTING OF SERVICES WITH TRADES PRIOR TO INSTALLATION. IN AREAS WHERE A MULTIPLICITY OF SERVICES OCCURS, PREPARE DETAIL DRAWINGS AND SUBMIT TO CONSULTANT FOR REVIEW PRIOR TO START OF AFFECTED WORK.
- WHERE CONDUIT AND/OR CONDUCTORS ARE EXPOSED, ARRANGE SAME TO AVOID INTERFERENCE WITH OTHER WORK AND PARALLEL TO BUILDING LINES. WHERE HORIZONTAL CONDUITS AND/OR CONDUCTORS ARE EXPOSED, INSTALL AS HIGH AS POSSIBLE. DO NOT INSTALL CONDUIT AND/OR CONDUCTORS WITHIN 6" (150MM) OF 'HOT' PIPES OR EQUIPMENT UNLESS CONDUIT AND OR CONDUCTORS ARE ASSOCIATED WITH EQUIPMENT. UNDEPENDABLY RUN CONDUIT AND CONDUCTORS MUST BE SUPPORTED FROM THE CEILING OR WALL STRUCTURE, NOT FROM CEILING HANGERS, DUCTWORK, PIPING, CABLE TRAYS
- 3. IDENTIFY CONDUIT RUNS (IE. TAG BOTH ENDS OF CONDUIT RUNS)

- 1. I PROVIDE CONDUIT FOR CONDUCTORS. CONDUIT TO BE EMT (THIN WALL) GALVANIZED, ELECTICAL METALLIC TUBING TO CSA C222 NO. 83, COMPLETE WITH FACTORY MAD BENDS WHERE SITE BENDING IS NOT POSSIBLE AND JOINTS AND TERMINATIONS MADE WITH SET SCREW TYPE CONNECTORS, FOR SHORT BRANCH CIRCUIT CONNECTORS TO MOTORIZED EQUIPMENT AND TRANSFORMERS (MINIMUM LENGTH 18" (450MM), MAXIMUM LENGTH 24" (600MM) WITH 180 DEGREE LOOP WERE POSSIBLE)-GALVANIZED STEEL FLEXIBLE FLUID - TIGHT METALLIC CONDUIT TO CSA C222 NOT. 56, COMPLETE WITH IDEAL 'STEEL TOUGH' LIQUID TIGHT FLEXIBLE CONDUIT CONNECTORS AT TERMINATIONS. FOR CONDUIT GREATER THAN 2" (1200MM), PROVIDE RIGID GALVANIZED STEEL TO CSA C222 NO. 45 COMPLETE WITH FITTINGS, CONNECTORS AND RIGID
- COUPLINGS.) 2. SUPPORT AND SECURE CONDUIT AT SPACING IN ACCORDANCE WITH CODE REQUIREMENTS BY MEANS OF GALVANIZED PIPE STRAPS, CONDUIT CLIPS, RING BOLT TYPE HANGERS OR BY OTHER PROPER MANUFACTURER DEVICES. PROVIDE CONDUIT FITTINGS CONSTRUCTED OF SAME MATERIALS AS CONDUIT AND SUITABLE FOR APPLICATION. SQUARE AND PROPERLY REAM ENDS OF SITE CUT CONDUIT. GENERALLY CONDUIT IS SIZED ON DRAWINGS. SIZE CONDUIT NOT SIZED ON DRAWING IN ACCORDANCE WITH CODE. BEND CONDUIT AT FULL CONDUIT DIAMETER WITH NO KINKS AND N OOFLAKING R CRACKING OF FINISHES.

- I PROVIDE CONDUCTORS. REFER TO DRAWINGS FOR SIZING OF CONDUCTORS. GENERALLY BRANCH CIRCUIT CONDUCTOR SIZES ARE INDICATED ON CONSULTANT'S DRAWINGS. SUCH SIZES ARE MINIMUM REQUIREMENTS AND MUST BE INCREASED TO SUIT LENGTH OF RUN AND VOLTAGE DROP IN ACCORDANCE WITH SCHEDULE OBTAINED FORM CONSULTANT, CONDUCTORS NOT SIZED ON DRAWINGS SHALL BE SIZED IN ACCORDANCE WITH CODE. PROVIDE CABLE SUPPORT SYSTEM ACCESSORIES WHICH ARE NOT SPECIFIED HEREIN OR SHOWN ON DRAWINGS BUT ARE REQUIRED FOR PROPER INSTALLATION.
- 2. CONDUCTORS TO BE 'T90 NYLON' SINGLE CONDUCTOR TO CSA C222 NO. 75, COLOUR CODED 194 DEGREES F. (90 DEGREES C), PVC INSULATED AND NYLON COVERED.
- 3. BRANCH CIRCUIT CONDUCTORS IN ACCESSIBLE SUSPENDED CEILING SPACES, IN STUB WALL CONSTRUCTION TO SUSPENDED CEILING SPECES (MAXIMUM 20' (6MI RUN PERMITTED MAY BE 'BX' TYPE AC-90 FLEXIBLE ARMORED CABLE WITH 'RW-90' CONDUCTORS AND BARE COPPER GROUND CONDUCTORS TO CSA C22 NO. 51 (BULLETIN NO.994) PROVIDE PROPER SQUEEZED TYPE CONNECTORS AND PLASTIC ANTO-SHORT BUSHINGS AT TERMINATIONS. SUPPORT 'BX' IN CEILING SPACES AND IN STUD WALL CONSTRUCTION WITH STEEL 2 HOLE CABLE STRAPS TO 'CODE' REQUIREMENTS.
- BRANCH CIRCUIT CONDUCTORS UP TO AND INCLUDING NO. 10 AWG SHALL BE SOLID CONDUCTORS IN SIZES LARGER THAN NO. 12 AWG UNLESS OTHERWISE
- 5. PROVIDE IDI ELECTRIC 'IDEAL' NO. 451, NO. 452 AND NO. 453 'WING-NUT' CSA CERTIFIED 600V RATED PRESURE TYPE CONNECTORS.

- COLOUR CODE CONDUCTORS IN ACCORDANCE WITH CODE, THROUGHOUT TO IDENTIFY PHASES, NEUTRALS AND GROUND BY MEANS OF SELF-LAMINATING COLOURED TAPE, COLOURED CONDUCTOR INSULATION OR PROPERLY SECURED COLOURED PLASTIC DISCS.
- WHEN PULLING WIRES INTO CONDUIT, USE IDI ELECTRIC 'IDEAL YELLOW 77' LUBRICANT. ENSURE WIRES ARE KEPT STRAIGHT AND ARE NOT TWISTED OR

OUTLET BOXES, PULL BOXES AND JUNCTION BOXES

- 1. PROVIDE CSA APPROVED STAMPED GALVANIZED STEEL OUTLET BOX FOR EACH LUMINARIES, FIRE ALARM DEVICE, ETC. REFER TO DRAWINGS FOR LOCATIONS OF OUTLETS. CONFIRM EXACT LOCATIONS PRIOR TO ROUGH-IN.
- PROVIDE PULL BOXES AND JUNCTION BOXES WHEREVER NECESSARY TO FACILITATE CONDUCTOR & CONDUIT INSTALLATIONS. GENERALLY, PROVIDE CONDUIT RUNS EXCEEDING 100' (30M) IN LENGTH OR WITH MORE THAN 3, 90 DEGREE BENDS WITH PULL BOX INSTALLED AT CONVENIENT AND SUITABLE INTERMEDIATE ACCESSIBLE LOCATION. PROVIDE JUNCTION BOXES AND PULL BOXES SIZED IN ACCORDANCE WITH CODE TO SUIT NUMBER AND SIZE OF CONDUITS AND CONDUCTORS. BOXES TO BE GALVANIZED OR PRIME COATED PLATED STEEL COMPLETE WITH SCREW-ONN OR HINGED COVERS AND KNOCKOUTS. BOXES MUST BE ACCESSIBLE AFTER WORK IS COMPLETE
- .SIZE, ARRANGEMENT AND TYPE OF BOXES MUST BE SUITABLE FOR APPLICATION. PROVIDE BLANK COVER PLATES ON EXISTING OBSOLETE BOXES WHICH ARE TO REMAIN. CLEARLY IDENTIFY MAIN PULL OR JUNCTION BOXES BY SPRAY PAINTING COVERS IN ACCORDANCE WITH FOLLOWING COLOUR SCHEDULE: LIGHTING - YELLOW NORMAL POWER - BLUE 3.3 ESSENTIAL POWER - ORANGE
- 3.4 FIRE ALARM RED 4. WHERE REQUIRED, SUPPLY ACCESS DOORS OF MINIMUM NO. 23 GAUGE. PRIME COATED STEEL COMPLETE WITH HINGES AND FRAMES TO GIVE ACCESS TO BOXES AND CONDUCTOR JOINTS AND OTHER SIMILAR ELECTRICAL WORK WHICH MAY NEED MAINTENANCE OR REPAIR, BUT WHICH IS CONCEALED IN IN ACCESSIBLE CONSTRUCTION. CONFIRM FINISHES WITH OWNER.

RECEPTACLES, SWITCHES AND FACE PLATES

- PROVIDE HUBBELL CANADA CSA APPROVED SPECIFICATION GRADE AC QUIET ACTION TOGGLE TYPE, 20A, 120V-277V SWITCHES AND SPECIFICATION GRADE PREMIUM QUALITY DUPLE NYLON CONSTRUCTION U-GROUND 12A-125V, 3W RECEPTACLES. DEVICES SHALL BE BACK AND SIDE WIRED. PROVIDE GRADE 18-8 TYPE 302.304 0.041" (1MM) THICK STAINLESS STEEL FACE PLATES WITH MATCHING SCREWS. CONFIRM TYPE AND FINISH OF DEVICES WITH OWNER PRIOR TO ORDERING.
- WHERE SHOWN, PROVIDE HUBBELL NO. IG5262. 15A-125V, ULC LISTED, 2-POLE 3W, ORANGE COLOURED, SPECIFICATION GRADE ISOLATED GOUND DUPLEX RECEPTACLE COMPLETE WITH STAINLESS STEEL COVER PLATE AND MATCHING SCREWS.
- WHERE SHOWN, PROVIDE HUBBELL NO. GF5252, 15A-125V ULC LISTED CLASS A, GROUP ONE, 2-POLE, 3IVORY COLOURED SPECIFICATION GRADE, GROUND FAULT INTERRUPTER DUPLEX RECEPTACLE, COMPLETE WITH STAINLESS STEEL COVER PLATE AND MATCHING SCREWS.
- 4. PROVIDE PERMANENTLY LABELED, SELF ADHESIVE IDENTIFICATION TAPE ON INSIDE AND OUTSIDE OF EACH DEVICE OUTLET FACE PLATE IDENTIFYING LOCATION FROM WHERE EACH DEVICE IS FED.
- 5. ACCEPTABLE MANUFACTURES INCLUDE LEVITON, PASS AND SEYMOUR, ARROW-HEAR AND BRYANT.

FASTENING AND SECURING HARDWARE

1. PROVIDE PROPER FASTENERS AND SIMILAR HARDWARE REQUIRED FOR CONDUIT CONDUCTORS AND FOR EQUIPMENT HANGER AND/OR SUPPORT MATERIAL UNLESS OTHERWISE NOTED. EXPLOSIVE POWER ACTUATED FASTENERS WILL NOT BE PERMITTED UNLESS SPECIFIC WRITTEN APPROVAL FOR US AND TYPE HAS BEEN OBTAINED FROM CONSULTANT. UNDER NO CIRCUMSTANCES US CEILING SUSPENSION HANGERS OR GRIDS FOR SUSPENSION OF CONDUIT AND

IDENTIFICATION NAMEPLATES

FOR EACH PIECE OF ELECTRICAL DISTRIBUTION EQUIPMENT FROM ELECTRICAL SOURCE OF SUPPLY UP TO AND INCLUDING PLANELOADS, PROVIDE ENGRAVED LAMACOID IDENTIFICATION NAMEPLATES SECURED TO APPARATUS WITH.

1. PROVIDE COMPLETE SET OF FUSES FOR EACH FUSIBLE DISCONNECT OR SIMILAR FUSIBLE EQUIPMENT. FUSES TO BE FORM 1 , CLASS 'J' HRC FUSES FOR CONSTANT RUNNING EQUIPMENT AND FOR 11 CLASS 'C' FUSES FOR MOTOR EQUIPMENT THAT CYCLES 'ON' AND 'OFF'. ACCEPTABLE MANUFACTURERS ARE ENGLISH ELECTRIC, BUSSMAN AND GOULD.

DISCONNECT SWITCHES

1. I PROVIDE DISCONNECT SWITCHES, CUTLEROHAMMER CANADA, HEAVY DUTYM, CSA APPROVED RONT OPERATED TYPE. FUSIBLE UNITS TO BE COMPLETE WITH FUSE CLIPS SUITABLE FOR HRC FUSES, UNLESS OTHERWISE NOTED. ENCLOSURES TO BE SPINKLER-PROOF. AMP RATING, NUMBER OF POLES AND FUSE REQUIREMENTS ARE AS INDICATED ON DRAWINGS. ACCEPTABLE MANUFACTURERS INCLUDE SIEMENS ELECTRIC, FEDERAL PIONEER AND SQUARE

CIRCUIT BREAKERS FOR EXISTING PANELBOARDS

PROVIDE BREAKERS IN EXISTING PANELBOARDS OF TYPE TO MATCH EXISTING DEVICES. QUALITY AND STANDARDS OF BREAKERS SHALL MATCH EXISTING. CONFIRM REQUIREMENTS ON SITE PRIOR TO ORDERING. PROVIDE FOR ALL MODIFICATIONS TO PANELBOARDS FOR BREAKERS AND FEEDER INSTALLATIONS. PROVIDE REPLACEMENT BRANCH CIRCUIT DIRECTORY CARDS NEATLY TYPEWRITTEN TO INCORPORATE ADDITIONAL AND EXISTING CONNECTED LOADS TO CONSULTANTS DIRECTIONS. DIRECTORIES SHALL USE OWNERS ACTUAL ROOM NAMES & NUMBERS AND NOT CONTRACT DRAWINGS NAMES & NUMBERS. PROVIDE ENGRAVED LAMACOID I.D. NAMEPLATES FOR DISTRIBUTION PANELBOARDS TO CONSULTANTS DIRECTION.

PANELBOARDS

- I PROVIDE CUTLER-HAMER CANADA TYPE 'POW-R-LINE 1' FACTORY ASSEMBLED DEAD FRONT PANELBOARDS, 120/208V 3 PHASE 4 WIRE MANUFACTURED TO CSA STANDARD C22 NO 29 AND ELECTRICAL SAFETY AUTHORITY CODE AND DESIGNATED FOR AN INTERRUPTING CAPACITY OF 10KA SYMMETRICAL AT 208V.
- INSTALL PANEL BOARDS WHERE SHOWN COMPLETE WITH: 2.1 EEMAC 2 SPRINGLER-PROOF ENCLOSURE CONSTRUCTED OF CODE GAUGE GALVANIZED STEEL WITH REMOVABLE BOX ENDS, WIRING GUTTER SPACE ON SIDES AND A ASA-61 GREY BAKED ACRYLIC ENAMEL FINISH. TRIM FOR RECESSED OR SURFACE WALL MOUNTING AS SHOWN CONSTRUCTED CODE GAUGE STEEL, BOWDLERIZED. FINISHED WITH ASA-61 GREY BAKED ACRYLIC ENAMEL AND COMPLETE WITH CONCEALED FASTENER, CONCEALED HINGE, CHROME PLATED DOOR, LATCH AND KEYED ALIKE LOCK WITH KEY, STEEL FRAME HOLDER AND CIRCUIT DIRECTORY BACK OF DOOR AND MYLAR CIRCUIT BREAKER IDENTIFICATION STRIPS. 2.3 DRIP SHIELD FOR SURFACE MOUNTED PANELBOARDS.
- HARD DRAWN ELECTRICAL GRADE COPPER BUS AND GROUND BUS HIGH STRENGTH SET SCREW TYPE ANTI_TURNING WIRE CONNECTORS. 2.6 BOLT ON MOULDED CASE CIRCUIT BREAKERS. 2.7 MAIN BREAKER AND GREEN POWER 'ON' INDICATOR LIGHT, WHERE SCHEDULED.
- 2.8 200% CAPACITY NEUTRALS FOR PANELBOARDS AS SCHEDULED. PROVIDE DOUBLE LUGGING TO EXISTING PANELBOARDS AS SHOWN. SUPPORT CABINET INDEPENDENT OF CONNECTING CONDUIT. TURN OVER TO CONSULTANT PRIOR TO APPLICATION FOR SUBSTANTIAL PERFORMANCE OF WORK QUANTITY OF 2 PANELBOARD CABINET KEYS FOR PANELBOARD. IDENTIFY PANELBOARD BREAKERS IN PERMANENT MANNER AND COMPLETE TYPED
- CIRCUIT DIRECTORY TO OWNER'S APPROVAL ACCEPTABLE MANUFACTURERS INCLUDE SIMENS ELECTRIC. FEDERAL PIONEER AND SQUARE 'U' CANADA.

ELECTRICAL CONNECTIONS FOR MECHANICALS, OWNER'S ETC., EQUIPMENT

- I PROVIDE REQUIRED ELECTRICAL CONNECTIONS TO APPARATUS SUPPLIED BY DIVISION 15. OWNER AND AS PART OF OTHER DIVISIONS. DO REQUIRED ELECTRICAL WORK FOR EQUIPMENT SCHEDULED ON DRAWINGS. DIVISION 15 WILL SUPPLY STARTERS FOR MOTORIZED APPARATUS SUPPLIED BY THEM AND WILL PROVIDE LAMACOID IDENTIFICATION THROUGHOUT. BE RESPONSIBLE FOR
- 2.1 COMPLETE INSTALLATION AND CONNECTION OF STARTERS AND PROVIDE 'LINE' AND 'LOAD' POWER CONNECTIONS AND INTERLOCKING AS REQUIRED. 2.2 PROVIDE MOTOR STARTER PANELS CONSISTING OF NO. 14 GAUGE STEEL BOLTED PANELS SIZED TO ACCOMMODATE STARTERS AS REQUIRED AND SUITABLE SPLITTER. 2.3 UNLESS OTHERWISE NOTED OR SHOWN ON DRAWINGS. MOUNT 1-PHASE

STARTERS ADJACENT TO EQUIPMENT THEY SERVE AND CONNECT COMPLETE.

- 2.4 CO-ORDINATE FEEDER ENTRIES TO STARTERS AND STARTER ASSEMBLIES WITH DIVISION 15. 2.5 PROVIDE ADDITIONAL DISCONNECT SWITCHES (COMPLETE WITH IDENTIFICATION DETAILED ON DRAWINGS, REQUIRED BY CODE, OR FOR APPARATUS WHICH CANNOT BE SEEN FROM ITS STARTER OR IS IN EXCESS OF
- 30' (9M) FROM IT STARTER). 2.6 DO INTERLOCK WIRING INDICATED ON DRAWINGS AND /OR SCHEDULES. 2.7 CONNECT REQUIRED CIRCUITS TO MOTOR STARTER PANEL SO AS TO BALANCE ACTUAL LOADS (WATTAGE).

GENERAL ELECTICAL WORK TESTING

1. IN ADDITION TO TESTS REQUIRED BY GOVERNING AUTHORITIES AND REGULATIONS, TEST WORK TO ENSURE THERE ARE NO LEAKS, GROUNDS OR CROSSES. ENSURE DEVICES ARE COMMISSIONED AND OPERABLE. COONECT CIRCUITS TO PANEL BOARDS SO AS TO BALANCE ACTUAL LOADS (WATTAGE) WITHIN 5%. IF REQUIRED TRANSPOSE CIRCUITS WHEN WORK IS COMPLETE TO MEET THIS REQUIREMENT.

EXISTING FIRE ALARM SYSTEM WORK

- WHERE SHOWN ON DRAWINGS, DISCONNECT, RELOCATE AND RECONNECT REQUIRED DEVICES. NEW WORK TO BE AN EXTENSION OF EXISTING SYSTEM. PROVIDE ADDITIONAL DEVICES WHERE SHOWN, CONDUCTORS IN CONDUIT AND END-OF-LINE RESISTORS. PROVIDE ULC LISTED DEVICES TO MATCH EXISTING DEVICES AND BE COMPLETELY COMPATIBLE WITH EXISTING SYSTEM. PERFORM WORK IN ACCORDANCE WITH LATEST ADDITION OF CAN/ULC-524. SEQUENCE OF OPERATION OF NEW WORK TO FUNCTION AS EXISTING SYSTEM. UNLESS OTHERWISE NOTED, CONNECT ADDITIONAL DEVICES TO EXISTING ZONES SERVING AREA AND PROVIDE WIRING OF MINIMUM NO. 16 AWG IN CONDUIT AND AS PER ELECTRICAL SAFETY AUTHORITY CODE REQUIREMENTS. ALARM RECEIVING CIRCUITS SHALL BE RUN IN SEPARATE CONDUITS FORM ALARM SIGNALING
- 2. DURING WORK TO THE EXISTING FIRE ALARM SYSTEM THE TIME AND DURATION OF INTERRUPTION SHALL BE APPROVED BY THE OWNER AND ONLY 1 ZONE SHALL BE INTERRUPTED AT ANY 1 TIME. IN ALL AREAS WHERE THE RENOVATION WORK REQUIRES SHUTDOWN OF ANY PART OF THE FIRE ALARM PROTECTION SYSTEM, PROVIDE MANUAL FIRE ALARM PROTECTION (FIRE WARDEN BY MEANS OF SUPERVISING THE AREA AS APPROVED BY GOVERNING AUTHORITIES. AT NO TIME SHALL THE FIRE ALARM SYSTEM OR ANY 1 ZONE BE LEFT INOPERATIVE OVERNIGHT PROVIDE ALL REQUIRED BYPASS WIRING AND TEMPORARY WIRING AS MAY BE REQUIRED TO MAINTAIN ALL PARTS OF THE FIRE ALARM SYSTEM OPERATIVE DURING CONSTRUCTION AND ALTERATIONS.
- 3. COVER EXISTING DETECTORS TO PROTECT FROM DEMOLITION & CONSTRUCTION DUST REMOVE COVERS WHEN ALTERNATIVE FIRE ALARM PROTECTION IN AREA IS NOT AVAILABLE OVERNIGHT. 4. WHEN FIRE ALARM SYSTEM WORK IS COMPLETE AND READY FOR ACCEPTANCE
- PROVIDE AND ARRANGE OFR INDEPENDENT TESTING COMPANY SUCH AS BROSZ AND ASSOCIATES, LEBER/RUES RANDALL BROWN AND ASSOCIATES OR DETRON SAFETY CONSULTANTS OF IF APPROVED BY OWNER- EXISTING FIRE ALARM MAINTENANCE CONTRACTOR TO INSPECT, TEST AND CERTIFY EQUIPMENT INCLUDING INITIATING DEVICES, SIGNALING DEVICES, CONTROL DEVICES AND WIRING. PROVIDE CERTIFICATE OF LIABILITY INSURANCE REGISTERED FOR THIS PROJECT TO SHOW SATISFACTORY PROOF OF MANUFACTURER'S AND TESTING COMPANY'S LIABILITY COVERAGE FOR BOTH HIS PRODUCT AND PERSONNEL. CONDUCT WORK IN ACCORDANCE WITH LATEST EDITION OF CAN/ULC-S536 AND S537. TESTS TO BE CONDUCTED IN PRESENCE OF OWNER AND/OR CONSULTANT.

PROVISION FOR TELEPHONE SYSTEM COMPONENTS

AND SYSTEM INSTALLER PRIOR TO ROUGH-IN.

PROVIDE COMPLETE SYSTEM OF EMPTY CONDUITS, OUTLET BOXES, JUNCTION BOXES, FACE PLATES AND SLEEVES OF REQUIRED AND FIRE RETARDANT PLYWOOD BACKBOARDS TO ACCOMMODATE FUTURE EXTENSION OF EXISTING TELEPHONE SYSTEM BY SYSTEM INSTALLER WHO WILL PROVIDE EQUIPMENT AND WIRING. PROVIDE BLANK TYPE FACE PLATES.

2. PROVIDE CONDUIT WITH MINIMUM DIAMETER AS SHOWN. PROVIDE PULL BOXES

IN CONDUIT RUNS LARGER THAN 100' (30M) OR HAVING MORE THAN 2 -DEGREE BENDS. PULL BOX SIZES SHALL NOT BE LESS THAN 6 TIMES ENTERING CONDUIT IN LENGTH. LEAVE CONDUITS FREE AND CLEAR OF OBSTRUCTIONS AND TERMINATE AS SHOWN. EQUIPMENT TERMINATIONS WITH BUSHINGS AND CLEARLY IDENTIFY EACH RUN. PROVIDE FISH WIRES IN EMPTY CONDUIT. 3. CONFIRM EXACT REQUIREMENTS AND LOCATIONS OF EQUIPMENT WITH OWNER

- PROVIDE LUMINARIES AS SCHEDULED COMPLETE WITH ENERGY SAVING BALLAST. CONFIRM FINISHES WITH CONSULTANT PRIOR TO ORDERING PROVIDE STANDARD LIFE LAMPS AS MANUFACTURED BY GE LIGHTING CANADA, PHILIPS LIGHT OR GTE SYLVANIA. INCLUDE LAMP LISTING IN LUMINARIES MANUALS.
- 2. PROVIDE LUMINARIES AS NOTED COMPLETE WITH ELECTRONIC BALLASTS. CONFIRM FINISHES WITH CONSULTANT PRIOR TO ORDERING. PROVIDE T8 (2950 LUMENS INITIAL, 3500K, MINIMUM CRI 85) LAMPS AS MANUFACTURED BY GE LIGHTING CANADA, PHILIPS LIGHTING OR OSRAM SYLVANIA INCLUDE LAMP LISTING IN LUMINARIES MANUALS. ACCEPTABLE BALLAST MANUFACTURES ARE ADVANCE, VALMONT, EBT AND MAGNETEK, ELECTRONIC BALLASTS SHALL BE ADVANCE TRANSFORMER CO. (PHILIPS), ELECTRONIC ENERGY SAVING BALLAST AS FOLLOWS:
- CSA APPROVED AND ULC LISTED AND LABELED: 2.2 COMPLY WITH FCC RULES AND REGULATIONS AND ANSI SPECIFICATION C62 41-1980 /C62 45-87 2.3 RAPID START IN ACCORDANCE WITH ANSI SPECIFICATION C82.1
- CLASS A SOUND RATING; 2.5 CAPABLE OF STARTING LAMPS DOWN TO 50 DEGREES F. (10 DEGREES 2.6 TOTAL HARMONIC DISTORTION SUMMARIZING SECOND TO THIRTY-NINTH HARMONIC NOT GREATER THAN 20%;
- 2.7 MINIMUM POWER FACTOR OF 0.95 AND BALLAST FACTOR OF AT LEAST 2.8 LAMP CURRENT CREST FACTOR NOT GREATER THAN 1.7: 2.9 FREQUENCY OF OPERATION BETWEEN 20 KHZ MINIMUM TO 60 KHZ
- MAXIMUM WITHOUT VISIBLE FLICKER. 2.10 5 YEAR FULL REPLACEMENT PATS AND LABOUR INCLUDED WARRANTY. THOROUGHLY REVIEW CEILING TYPES, FINISHES, AND CONSTRUCTION DETAILS WITH OWNER BEFORE PLACING LUMINARIES ORDERS AND ENSURE REQUIRED MOUNTING ASSEMBLIES, RINGS AND SIMILAR FEATURES ARE INCLUDED. INCLUDE FOR ASSEMBLY, MOUNTING AND ADJUSTING OF LUMINARIES COMPLETE WITH WIRING, CONNECTIONS, HANGERS ALIGNERS, BOX COVERS AND ACCESSORIES FOR COMPLETE SAFE, FULLY OPERATION ASSEMBLY. CAREFULLY COOORDINATE LUMINARIES INSTALLATION WITH WORK OF OTHER TRADES TO ENSURE NECESSARY RECESSING DEPTHS AND MOUNTING SPACE ARE PROVIDED. INSTALL LUMINARIES IN ACCORDANCE WITH APPLICABLE ARCHITECTURAL REFLECTED CEILING PLANS AN/OR WALL ELEVATIONS. CONFIRM LUMINARIES LOCATIONS PRIOR TO ROUGH-IN. SUPPORT LUMINARIES DIRECTLY TO CEILING SLAB

INSTALLATIONS.

1. THE VOICE & DATA SYSTEM COMPONENTS SHALL BE SUPPLIED AND INSTALLED BY A NORDX/CDT CERTIFIED SYSTEM VENDOR. THE PRODUCTS AND INSTALLATION MUST COMPLY WITH NORDXCDT'S REQUIREMENTS AND THUS BE PROVIDED WITH NORDX/CT'S 15 YEAR APPLICATION ASSURANCE PRODUCT WARRANTY. THE SELECTED CONTRACTOR MUST EST AND CERTIFY THE INSTALLATION AND HONOR MANUFACTURER'S WARRANTY PROGRAMS. PROVIDE TO CONSULTANT. A DOCUMENTED LETTER ATTESTING THE NORDS/CDT'S CERTIFICATION OF CONTRACTOR REGARDING CATEGORY 5 CABLING

STRUCTURE, NOT TO CEILING HANGERS, DUCTWORK, PIING, CABLE TRAYS ETC.

- PROVIDE PRODUCTS AS FOLLOWS: 2.1 CATEGORY 5, FT6 PLENUM RATED, 4 PAIR 24 AWG, ULC LISTED AND VERIFIED UNSHIELDED TWISTED PAIR, COPPER CONDUCTOR WIRING; 2.2 NORD/CDT NO. QNE3FN8/8A/AC(10) CATEGORY 5 DUAL MODULAR DATA & VOICE JACK COMPLETE WITH FLUSH WALL MOUNTING FACE PLATE AND NO. P007029 SERIES IDENTIFICATION LABELS; NORDX/CDT NO. QMB1X31A CONNECTOR MOUNTS WITH COVER AND 4 NO. QCBIX-36DA CONNECTORS. DISTRIBUTION RINGS, DESIGNATION STRIPS; IDENTIFICATION LABELS AND ALL REQUIRED ANCILLARY DEVICES.
- PROVIDE 2 RUNS OF CABLING TO EACH DUAL JACK OUTLET. CABLING MUST BE RUN IN RACEWAYS OR CONDUIT AND ADEQUATELY SUPPORTED WITH PROPER CALMS OR HARNESS. INACCESSIBLE SUSPENDED CEILING SPACES, CABLING IS NOT REQUIRED TO BE RUN IN CONDUIT. BUT MUST BE NEATLY BUNDLED AND PROPERLY SUPPORTED TAG AND LABEL BOTH ENDS OF CABLES AND LABEL JACK IN ACCORDANCE WITH OWNER'S WRITTEN INSTRUCTIONS. PROVIDE GROINING AS REQUIRED. INSTALL MOUNTS ON OBC

5. WHEN PREPARING CABLE FOR TERMINATION, STRIP AS LITTLE OUTER JACKET

AS POSSIBLE AND DO NOT UNTWIST CABLE PAIRS MORE THAN 1/2" (12MM) FROM END. DO NOT SPLICE CABLES. 6. UPON COMPLETION OF INSTALLATION, TEST ENTIRE STRUCTURAL CABLING SYSTEM AND PROVIDE DOCUMENTATION OF TEST RESULTS TO CONSULTANT. TESTING SHALL INCLUDE BUT NOT LIMITED TO THE FOLLOWING:

FLAME SPREAD RATING PLYWOOD BACKBOARD WHERE SHOWN.

- 6.2 ATTENUATION; 6.3 END TO END CONTINUITY; 6.4 OPENS OR SHORTS
- 6.5 PAIR POLARITY. 7. INCLUDE COST FOR CONNECTION AND RE-TESTIONG FO DEFECTIVE WIRING
- AND/OR COMPONENTS FOUND. 8. SYSTEM SHALL COMPLY WITH REQUIREMENTS OF APPLICABLE CODES INCLUDING T1A/E1A T568A/B, TS836 AND T6840.
- 9. PROVIDE CONDUIT WITH MINIMUM DIAMETER AS SHOWN. PROVIDE PULL BOXES IN CONDUIT RUNS LONGER THAN 100' (30M) OR HAVING MORE THAN 2-90 DEGREE BENDS. PULL BOX SIZES SHALL NOT BE LESS THAN 6 TIME ENTERING CONDUIT IN LENGTH. LEAVE CONDUITS FREE AND CLEAR OF OBSTRUCTION AND TERMINATE AS SHOWN EQUIPMENT TERMINATION WITH BUSHINGS AND CLEARLY

IDENTIFY EACH RUN. CONFIRM EXACT REQUIREMENTS, FINISHES AND LOCATION

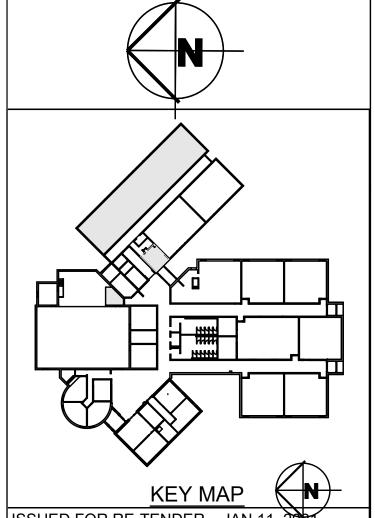
EMERGENCY LIGHTING SYSTEM

- 1. EMERGENCY BATTERY UNITS SHALL BE DESIGNED TO PROVIDE EMERGENCY LIGHTING FOR AT LEAST 30 MINUTES AUTOMATICALLY UPON FAILURE OF A NORMAL POWER SOURCE. UPON RESTORATION OF THE NORMAL POWER, THE BATTERY UNIT SHALL BE RESTORED AUTOMATICALLY TO A CHARGING CONDITION. THE CHARGING CYCLE SHALL RAISE THE BATTERY TO AN EQUALIZED VOLTAGE AND THEN ELECTRONICALLY SENSE THE FULL STATE OF CHARGE IN THE BATTERY AND RETURN THE BATTERY TO A LOWER FLOAT
- THE CHARGER SHALL BE REGULATED TO A PLUS OR MINUS 20 MV OUTPUT FOR PLUS OR MINUS 10% INPUT VOLTAGE FLUCTUATION. IN ORDER TO EXTEND BATTERY LIFE AT AMBIENCE OTHER THAN ROOM TEMPERATURE, THE CHARGER SHALL REDUCE THE BATTERY VOLTAGE BY 4 MV PER CELL PER OC RISE IN TEMPERATURE AND SHALL RAISE THE BATTERY VOLTAGE BY 4 MV PER CELL PER OC REDUCTION IN TEMPERATURE FROM A 200C REFERENCE TEMPERATURE. THE UNIT SHALL BE EQUIPPED WITH A PHASE LOSS AND BROWN OUT PROTECTION CIRCUIT WHICH SHALL TURN ON EMERGENCY LIGHTS WHEN INPUT VOLTAGE TO THE UNIT FALLS BELOW 90 VOLTS OR 75% FULL VOLTAGE. THE UNIT SHALL INCLUDE A TEST SWITCH, CHARGE AND ON PILOT LIGHTS WHICH SHALL BE LIGHT OMITTING DIODES. THE UNIT SHALL INCLUDE A LOW VOLTAGE DISCONNECT CIRCUIT.
- BATTERY UNITS SHALL BE LUMACELL OF THE TYPES NOTED, COMPLETE MAINTENANCE-FREE, SEALED PURE LEAD MODEL NO. RG24S SERIES RATED AS INDICATED ON THE DRAWINGS WITH DESIGN LIFE OF 10 YEARS, 24 VOLT. THE UNIT SHALL BE PERFORMANCE CERTIFIED AND CARRY C.S.A. C22.2 NO. 141 APPROVAL FOR THE WATTAGE NOTED.
- WALL MOUNTED UNIT SHALL BE PROVIDED WITH RECESSED BACK BOX AND MOUNTING TEMPLATE TO ALLOW PRE-INSTALLATION FEEDS OF A.C. INPUT AND D.C. OUTPUT. BOTH A.C. INPUT AND D.C. OUTPUT SHALL ENTER UNIT THROUGH BACK FACE WITHOUT ANY VISIBLE CABLE OR CONDUIT FEEDS. PROVIDE WALL MOUNTED SHELF FOR EACH
- **BATTERY UNIT** 5. PROVIDE A 120 VOLT INPUT CIRCUIT FOR EACH UNIT WIRED TO UNSWITCHED CIRCUIT INDICATED. WIRE TO EXIT SIGNS FROM BATTERY UNITS. SIZE CONDUCTORS TO ALL REMOTE LAMPS TO PROVIDE MAXIMUM VOLTAGE DROP OF
- **EMERGENCY EQUIPMENT TYPES:** TYPE 1 - SHALL COMPRISE A MODEL RG24S2161LD14 CEILING MOUNTED ADJUSTABLE MR16LED REMOTE LIGHTING UNIT 6 WATT 24 VOLT. TYPE 2 - SAME AS TYPE 1 EXCEPT DOUBLE HEAD, MODEL 2LD14. TYPE 3 - WEATHERPROOF MODEL WP SERIES, MR16LED 6WATT, 24 VOLTS.
- EMERGENCY LIGHTING LEVEL MEASUREMENT INCLUDE FOR SERVICES TO MEASURE AND PLOT LIGHTING LEVELS ON FLOOR PLANS UPON COMPLETION OF WORK. PROVIDE COPIES FOR REVIEW BY CONSULTANT AND FIRE DEPARTMENT.

- SHALL BE LUMACELL LA SERIES OR EQUAL, LED PANEL, EXTRUDED ALUMINUM PICTOGRAM EXIT SIGNS, DIRECTION ARROWS AS REQUIRED, HAVING LESS THAN 2.5 WATTS WHITE LED PANEL FOR UNIVERSAL AC/DC CONNECTION. WEATHERPROOF EXIT SIGNS SHALL BE LUMACELL # LN SERIES AS PICTOGRAM
- INCLUDE FOR THE SUPPLY, INSTALLATION AND WIRING (TO NEAREST NORMAL & EMERGENCY LIGHTING CIRCUIT) OF 5 ADDITIONAL EXIT SIGNS AT LOCATIONS LATER DIRECTED ON SITE.
- 3. ACCEPTABLE EMERGENCY EQUIPMENT MANUFACTURERS ARE: LUMACELL LUXNET EMERGI-LITE

BAGHELLLI

M.K. AHMED 100069234



ISSUED FOR RE-TENDER JAN 11, 2012 ISSUED FOR TENDER/PERMIT FEB 25, 2020 ISSUED FOR REVIEW FEB 19, 2020 ISSUED FOR REVIEW JAN 23, 2020 ISSUED FOR PERMIT JULY 05, 2018 ISSUED FOR TENDER JULY 05, 2018

ISSUED FOR 80% DESIGN JUNE 15, 2018



EEC- STE. CROIX DAYCARE INTERIOR RENOVATIONS

TINY, ON



110 DREWRY AVENUE TORONTO, ON

CONSEIL SCOLAIRE CATHOLIQUE MONAVENIR

ELECTRICAL SPECIFICATIONS

AS NOTED MAY 2018