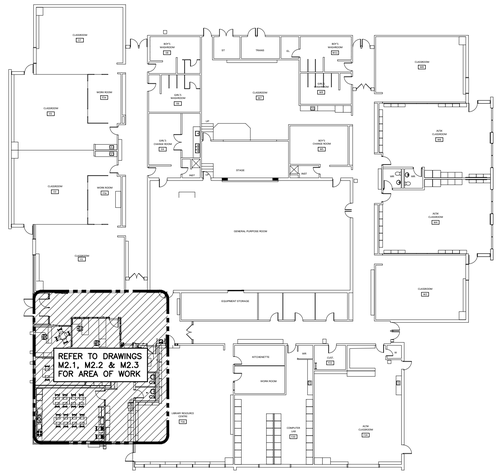

KEY PLAN
SCALE: N.T.S.

MECHANICAL LEGEND

Item	Description	Item	Description	Item	Description
	ITEM TO BE REMOVED	STM	STORM ABOVE FLOOR	FE	WALL MOUNTED FIRE EXTINGUISHER
	CUT EXISTING & CONNECT NEW PIPING	STM	STORM BELOW FLOOR	CO	FLOOR CLEANOUT
	FLOW DIRECTION	STM-EX	EXISTING SAN BELOW FLOOR	CO	LINE CLEANOUT
	POTABLE COLD WATER	FD	FLOOR DRAIN	T	THERMOSTAT (WITH GUARD WHERE INDICATED)
	POTABLE HOT WATER	P	TRAP PRIMER	C	CO2 SENSOR (WITH GUARD WHERE INDICATED)
	POTABLE HOT WATER RECIRC.		TEE CONNECTION		ACOUSTIC DUCT LINING
SAN-EX	EXISTING STM ABOVE FLOOR		PIPE DOWN		BRANCH LINE SPIN-IN COLLAR C/W BALANCING DAMPER
SAN-EX	EXISTING STM BELOW FLOOR		PIPE UP	BD	BALANCING DAMPER
SAN	SANITARY ABOVE FLOOR		RECTANGULAR DUCTWORK	OBD	OPPOSED BLADE DAMPER
SAN	SANITARY BELOW FLOOR		FLEXIBLE ROUND DUCT	AD	ACCESS DOOR
STM-EX	EXISTING SAN ABOVE FLOOR	Type Size Capacity	DIFFUSER/GRILLE SIZE (imp), TYPE & CAPACITY (cfm)	EX	EXISTING DUCT (SIZE AS INDICATED)

GRILLE SCHEDULE

CAPACITY INDICATED ON SCHEDULE REFER TO SPECIFICATION FOR CONSTRUCTION STANDARDS, ACCESSORIES AND ADDITIONAL INFORMATION.

Item	Type	Equalizing Grid	Volume Damper	Acceptable Manufacturer	Description
D1	SQUARE CEILING DIFFUSER	NO	NONE	EH PRICE SCDA	4-CONE, FULLY ADJUSTABLE, 24x24, STEEL CEILING DIFFUSER W/ROUND NECK. SUITABLE FOR LAY-IN T-BAR CEILING, OR DRYWALL CEILING WHEN C/W FRAME.
D2	DIRECTIONAL CEILING DIFFUSER (AS INDICATED)	NO	NONE	EH PRICE SMDA	LOUVRED FACE, STEEL, FULLY ADJUSTABLE, CEILING DIFFUSER W/SQUARE NECK. SUITABLE FOR SURFACE MOUNTING. NECK SIZE AS INDICATED. 4-WAY CORE STYLE.
R1	CEILING RETURN GRILLE (DUCTED)	NO	NONE	EH PRICE 635-FLA	FIXED BLADE AT 45°, 1/2" SPACING, C/W 1 1/4" FLAT BORDER & SCREWED FASTENING FOR SURFACE MOUNTING.
R2	SIDEWALL RETURN GRILLE	NO	NONE	EH PRICE 60-FLA	FIXED BLADE AT 45°, 3/4" SPACING, ALUMINUM AIRFOIL BLADES PARALLEL TO LONG DIMENSION, C/W 1 1/4" FLAT BORDER & SCREWED FASTENING FOR SURFACE MOUNTING.

GENERAL GRILLE SCHEDULE NOTES:

1. ACCEPTABLE MANUFACTURERS: EH PRICE, NAILOR, TITUS, KRUEGER, CARNES, METALAIRE, TUTTLE & BAILEY.
2. GRILLE COLOURS ARE SELECTED BY ARCHITECT FROM STANDARD COLOUR CHART, UNLESS OTHERWISE NOTED.
3. PAINT INTERIOR OF DUCTWORK BEHIND GRILLE MATTE BLACK (WHERE VISIBLE THRU GRILLE).

FAN SCHEDULE

CAPACITY INDICATED ON SCHEDULE REFER TO SPECIFICATION FOR CONSTRUCTION STANDARDS, ACCESSORIES AND ADDITIONAL INFORMATION.

Item	Type	Capacity (cfm)	ESP (in wc)	Fan Speed (rpm)	Motor		Acceptable Manufacturer	Remarks
					hp	Voltage		
EF-1	CEILING EXHAUST FAN	100	0.2	640	Fhp	120/1/60	BROAN L100	ACOUSTICALLY INSULATED STEEL HOUSING, CENTIFUGAL BLOWER WHEEL, 90° DISCHARGE OUTLET W/BACKDRAFT DAMPER, C/W WHITE PAINTED ENAMEL STEEL GRILLE, VIBRATION ISOLATORS. 1.1 SONES
EF-2	CEILING EXHAUST FAN	150	0.2	640	Fhp	120/1/60	BROAN L150	ACOUSTICALLY INSULATED STEEL HOUSING, CENTIFUGAL BLOWER WHEEL, 90° DISCHARGE OUTLET W/BACKDRAFT DAMPER, C/W WHITE PAINTED ENAMEL STEEL GRILLE, VIBRATION ISOLATORS. 1.1 SONES
EF-3	RANGEHOOD (DUCTED)	210	0.2	3 SPD	Fhp	120/1/60	BROAN SAHALE BKDF1	CONTOURED STEEL HOUSING, FULLY ENCLOSED BOTTOM, TOP DISCHARGE, CENTIFUGAL BLOWER WHEELS, WASHABLE ALUMINUM FILTERS, 3 SPEED BLOWER CONTROL, PROVIDE 2 LEVEL LED LIGHTING. COLOUR SELECTED BY CONSULTANT.

GENERAL FAN SCHEDULE NOTES:

1. ACCEPTABLE MANUFACTURERS: CEILING FANS: BROAN, GREENHECK, ZONEX

PLUMBING FIXTURE SCHEDULE

CAPACITY INDICATED ON SCHEDULE REFER TO SPECIFICATION FOR CONSTRUCTION STANDARDS, ACCESSORIES AND ADDITIONAL INFORMATION.

Item	Type	Connection Sizes					Fixture		Trim		Accessories	
		HW	CW	TW	Drain	Vent	Acceptable Manufacturer	Fixture Description	Acceptable Manufacturer	Trim Description	Acceptable Manufacturer	Accessory Description
L-1	WALL MOUNTED LAV ELECTRONIC FAUCET	15	15		32	32	AMERICAN STANDARD LUCERNE 355.012 KOHLER BRENHAM K-1997 ZURN Z5344	WALL-HUNG SINK, VITREOUS CHINA, WITH SPLASH LIP, SUPPLY OPENINGS ON 100 MM (4") CENTRES, OVERFLOW. SIZE: 557 MM X 502 MM (21 15/16" X 19 3/4").	DELTA 591T0256 MOEN COMMERCIAL CA8301-AC ZURN Z6915-HW6-XL	HARDWIRED ELECTRONIC FAUCET. CAST BRASS ONE PIECE BODY WITH INTEGRAL WATER PROOF INFRA-RED SENSOR AND CONNECTOR. ADJUSTABLE SENSING RANGE 76mm TO 381mm (3" TO 15") AND TIME OUT 15 TO 75 SECONDS CHROME FINISH. VANDAL RESISTANT AERATOR HAVING INTEGRAL FLOW CONTROL FOR 1.5gpm (5.7 L/MIN) @ 413 KPA (60 PSI) MAX. UNDER COUNTER PLASTIC SURFACE MOUNTED HOUSING FOR SOLENOID AND CONTROLLER. SENSOR ACTIVATES IN PRESENCE OF PERSON'S HANDS IN LAVATORY. C/W PLUG-IN TRANSFORMER. C/W NO LIMIT STOP SET AT 105°F. SOLENOID DRIVER BOARD, ETC. SHALL BE INSTALLED IN RECESSED CONTROL BOX#DSP-591CB8 SURFACE MOUNTED CONTROLS/DEVICES WILL NOT BE ACCEPTED.		WASTE FITTING: OPEN GRID STRAINER. PROVIDE FLOOR MOUNTED WALL CARRIER THERMOSTATIC MIXING VALVE UNDER LAV. DELTA R3070-MIXLF, POWERS LM490 OR EQUAL.
L-2	BARRIER FREE WHEELCHAIR LAV ELECTRONIC FAUCET	15	15		32	32	AMERICAN STANDARD MURRO 0944 000 KOHLER MORNINGSIDE K-12636-L ZURN	WALL-HUNG SINK, VITREOUS CHINA, LOW SHELF, WITH INTEGRAL BACK. CONTOURED FRONT, SHALLOW FRONT BASIN, OVERFLOW, SOAP DEPRESSIONS, SUPPLY OPENINGS ON 100 MM (4") CENTRES, CONCEALED SUPPORTS. SIZES: 686 MM X 500 MM (27" X 20"). C/W "SHROUD/KNEE CONTACT GUARD #0059 020".	DELTA 591T0256 MOEN COMMERCIAL CA8301-AC ZURN Z6915-HW6-XL	HARDWIRED ELECTRONIC FAUCET. CAST BRASS ONE PIECE BODY WITH INTEGRAL WATER PROOF INFRA-RED SENSOR AND CONNECTOR. ADJUSTABLE SENSING RANGE 76mm TO 381mm (3" TO 15") AND TIME OUT 15 TO 75 SECONDS CHROME FINISH. VANDAL RESISTANT AERATOR HAVING INTEGRAL FLOW CONTROL FOR 1.5gpm (5.7 L/MIN) @ 413 KPA (60 PSI) MAX. UNDER COUNTER PLASTIC SURFACE MOUNTED HOUSING FOR SOLENOID AND CONTROLLER. SENSOR ACTIVATES IN PRESENCE OF PERSON'S HANDS IN LAVATORY. C/W PLUG-IN TRANSFORMER. C/W NO LIMIT STOP SET AT 105°F. SOLENOID DRIVER BOARD, ETC. SHALL BE INSTALLED IN RECESSED CONTROL BOX#DSP-591CB8 SURFACE MOUNTED CONTROLS/DEVICES WILL NOT BE ACCEPTED.	INSULATION: MCGUIRE PROWRAP PWB8902 TRUEBRO LAV GUARD	INSULATION: INSULATE WASTE AND SUPPLIES WITH UL LISTED PREFORMED INSULATION SYSTEM COMPLETE WITH SEAMLESS JACKET. WASTE FITTING: NPS 32 MM (1¼") OFFSET WASTE WITH OPEN GRID STRAINER. PROVIDE FLOOR MOUNTED WALL CARRIER. THERMOSTATIC MIXING VALVE UNDER LAV. DELTA R3070-MIXLF, POWERS LM490 OR EQUAL.
FD-1	FLOOR DRAIN				NOTED	40	ZURN ZN415B MIFAB F1100-C CONTOUR C2000-R6 WATTS FD-100-C-A	GENERAL DUTY CAST IRON BODY, ADJUSTABLE HEAD, NICKEL BRONZE STRAINER, INTEGRAL SEEPAGE PAN, AND CLAMPING COLLAR. USE SQUARE STRAINER IN TILED AREAS AND ROUND STRAINER ELSEWHERE. C/W TRAP PRIMER				
DS-1	STAINLESS STEEL DOUBLE SINK	15	15		40	32	KINDRED LBD6408-1/3 NOVANNI 20071	SINK: DOUBLE COMPARTMENT, LEDGE-BACK. FROM 1.0 mm (20 GAUGE) THICK TYPE 302 POLISHED STAINLESS STEEL, SELF-RIMMING, UNDERCOATED, CLAMPS. OVERALL SIZES: 790 mm X 520 mm X 200 mm (31½" X 20 3/4" X 8").	DELTA 100 ZURN Z82300-CP8 MOEN COMMERCIAL 8701	FAUCET: CHROME PLATED BRASS, WITH SWING SPOUT, AERATOR, SINGLE LEVER HANDLE, WASHERLESS CONTROLS, ACCESSORIES TO LIMIT MAXIMUM FLOW RATE TO 8.35 l/min (2.2 gpm) AT 413 kPa (60 psi).		WASTE FITTING: INTEGRAL STAINLESS STEEL BASKET STRAINER/STOPPER, TAILPIECE, CAST BRASS P-TRAP WITH CLEANOUT.
WC-1	WATER CLOSET FLUSH TANK		15		80	40	AMERICAN STANDARD CADET 2467 016.3481 016 KOHLER WELLWORTH K-3505 MANSFIELD QUANTUM 147-123 ZURN Z5550-IN	VITREOUS CHINA, TANK WITH LINER & PRESSURE ASSISTED, SIPHON JET, ELONGATED RIM, METAL TRIP LEVER TWO PIECE (TANK & BOWL) CLOSE COUPLED, BOLT CAP, BOTTOM OUTLET, FLOOR-MOUNTED, 12" ROUGH-IN, MIN 2" TRAP WAY, MAXIMUM 6 litres (1.6 gal) PER FLUSH.			SEAT: BEMIS 2155SSCT CENTOCO AM500STSCCSS	SEAT: BLACK, ELONGATED, OPEN FRONT WITH BLACK COVER, MOLDED SOLID ANTIMICROBIAL PLASTIC, STAINLESS STEEL CHECK HINGES, STAINLESS STEEL OR SOLID BRASS INSERT POST.
WC-2	BARRIER FREE WATER CLOSET FLUSH VALVE, 16" HIGH, HANDS FREE		25		80	40	AMERICAN STANDARD MADERA 3461.001 KOHLER HIGHCREST K-4302 MANSFIELD ADRIATIC 1319 ZURN ECO VANTAGE Z5665-BWL	EXPOSED, POLISHED CHROME PLATTED, DIAPHRAGM TYPE FLUSH VALVE WITH 25mm (1") SCREWDRIVER ANGLE STOP, MOTORIZED ACTUATOR, AUTOMATIC SENSOR WITH MANUAL PUSH BUTTON OVERRIDE, VACUUM BREAKER ADJUSTABLE TAIL PIECE, AUTOMATIC 8 HR COURTESY FLUSH, RECESSED WALL MOUNTED SENSOR BOX, FLUSH CONNECTION & COUPLING FOR 40mm (1 1/2") TOP SPUD, WALL AND SPUD ESCUTCHEINS. HARDWIRED OPERATED POWER CONVERTOR, SENSOR BOX C/W COVER, VANDAL RESISTANT SCREWS, FLUSH CYCLE SET FOR 6.0 LITRES (1.6 GAL) PER FLUSH.	DELTA 81T201-WMSHW ZURN ZEMS6000AV SLOAN 111-ES-S	EXPOSED, POLISHED CHROME PLATTED, DIAPHRAGM TYPE FLUSH VALVE WITH 25MM (1") SCREWDRIVER ANGLE STOP, MOTORIZED ACTUATOR, AUTOMATIC SENSOR WITH MANUAL PUSH BUTTON OVERRIDE, VACUUM BREAKER ADJUSTABLE TAIL PIECE, AUTOMATIC 8 HR COURTESY FLUSH, RECESSED WALL MOUNTED SENSOR BOX, FLUSH CONNECTION & COUPLING FOR 40MM (1 1/2") TOP SPUD, WALL AND SPUD ESCUTCHEINS. HARDWIRED OPERATED POWER CONVERTOR, SENSOR BOX C/W COVER, VANDAL RESISTANT SCREWS, FLUSH CYCLE SET FOR 6.0 LITRES (1.6 GAL) PER FLUSH.	SEAT: BEMIS 1955 CENTOCO AM820STS	SEAT: BLACK, ELONGATED, OPEN FRONT, MOLDED SOLID ANTIMICROBIAL PLASTIC, STAINLESS STEEL CHECK HINGES, STAINLESS STEEL OR SOLID BRASS INSERT POST.

GENERAL NOTES

- ALL DRAWINGS ARE TO BE READ IN CONJUNCTION WITH THE PREPARED SPECIFICATION.
- REFER TO SPECIFICATIONS FOR DETAILS REGARDING REQUIRED SHOP DRAWINGS SUBMISSIONS, INDEPENDENT SITE TESTING, AND SITE WORK NOTIFICATIONS.
- UPON COMPLETION OF THE PROJECT OR UPON COMPLETION OF EACH INDIVIDUAL PHASE OF THE PROJECT THE CONTRACTORS SHALL PROVIDE THE FOLLOWING CERTIFICATES BEFORE CONFORMANCE LETTERS ARE ISSUED BY THE CONSULTANT:
  - POTABLE WATER TEST (SEE SPEC 22 11 16 PART 3)

  ALL CERTIFICATES ARE TO BE SUBMITTED TOGETHER IN A SINGLE PACKAGE.

WATERLOO REGION DISTRICT SCHOOL BOARD

DEI Consulting Engineers
MECHANICAL | ELECTRICAL | AQUATIC
55 Northland Road, Waterloo, ON N2V 1Y8
Phone: 519-725-3555
Website: deiassociates.ca
Project Number: 25450

The contractor shall verify all dimensions and report all errors and discrepancies to the Consultant before commencement of the work.
The drawings show general arrangement of services. Follow as closely as actual building construction will permit. Obtain approval for relocation of service from Consultant before commencement of the work.
The drawings do not indicate all offsets fitting and accessories which may be required. Provide the same to meet the required conditions.
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no.	revision	date

LICENSED PROFESSIONAL ENGINEER
1 Apr 26
M.B. WHITE
100190774
PROVINCE OF ONTARIO

no.	issue	date
1	Issued for Permit & Tender	2026.04.02

project
TRILLIUM JUNIOR PUBLIC SCHOOL INTERIOR RENOVATIONS
WATERLOO REGION DISTRICT SCHOOL BOARD

79 Laurentian Dr, Kitchener, ON N2E 1C3

drawing
KEY PLAN, LEGEND & SCHEDULES

drawing scale
AS NOTED

ward99 project number
25022 - WRDSB TRILLIUM PS

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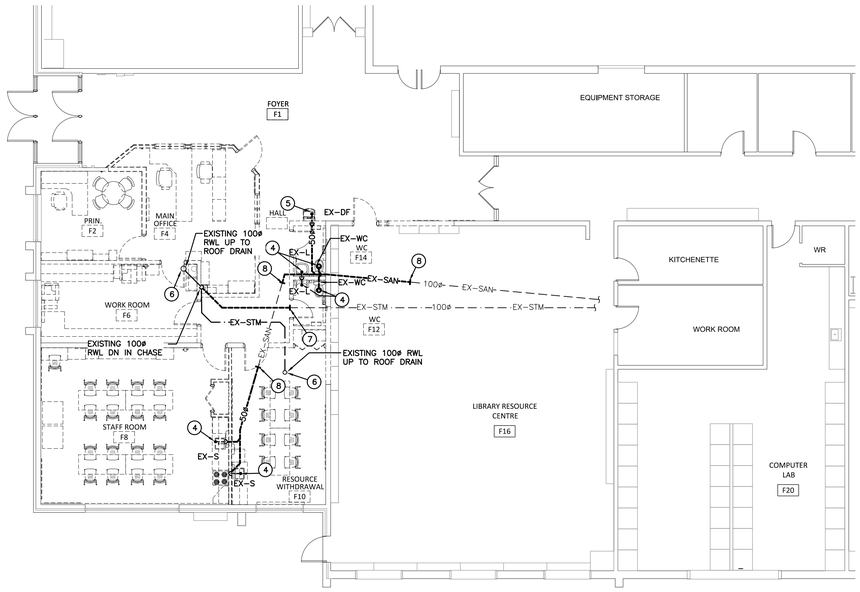
M1.1



GROUND FLOOR PART PLAN – DRAINAGE DEMOLITION

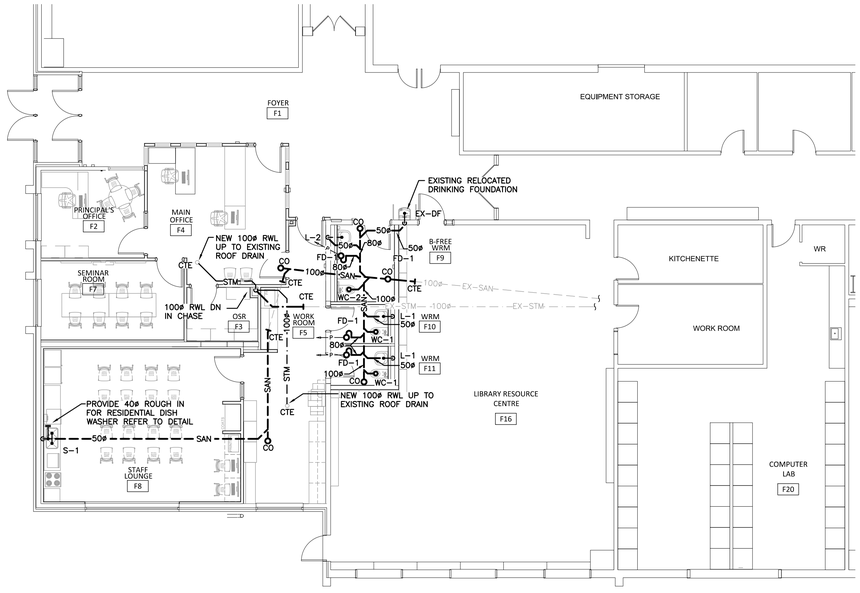
SCALE: 1:100

GENERAL NOTES

- ALL DRAWINGS SHALL BE READ IN CONJUNCTION WITH THE ASSOCIATED PROJECT SPECIFICATIONS.
- THIS CONTRACTOR SHALL TRACK REVISIONS ON SITE AND SUBMIT AS-BUILTS TO CONSULTANT TO DIGITIZE. REFER TO SPECIFICATIONS 21 02 51, 22 02 51 & 23 02 51.
- SANITARY VENT PIPING IS NOT SHOWN. PROVIDE ALL NECESSARY VENT PIPING FROM ALL FIXTURES FOR A COMPLETE SYSTEM TO ALL LOCAL PLUMBING CODE & LOCAL AUTHORITY REQUIREMENTS, CONNECTED TO EXISTING VENTS OR NEW VENTS AS REQUIRED. CO-ORDINATE VENT LOCATION(S) WITH GENERAL CONTRACTOR. MAINTAIN MIN 14'-0" FROM ANY AIR INLET. INSTALL VENT PIPING HIGH IN JOIST SPACE.
- REFER TO SPECIFICATIONS FOR CONFORMANCE REQUIREMENTS.

SPECIFIC DEMOLITION NOTES

1. EXISTING DIFFUSER AND GRILLE TO BE REMOVED COMPLETE.
2. EXISTING DUCTWORK TO BE CUT AND REMOVED BEYOND COMPLETE.
3. EXISTING EXHAUST FAN AND DUCTWORK TO BE REMOVED COMPLETE.
4. EXISTING PLUMBING FIXTURE TO BE REMOVED COMPLETE. EXISTING SANITARY AND DOMESTIC PIPING TO BE CUT, CAPPED AND REMOVED BEYOND COMPLETE.
5. EXISTING PLUMBING FIXTURE TO BE REMOVED AND RELOCATED. EXISTING PIPING TO BE REMOVED COMPLETE.
6. EXISTING RWL UP TO EXISTING ROOF DRAIN TO BE REMOVED BEYOND COMPLETE.
7. EXISTING STORM PIPING TO BE CUT AND REMOVED BEYOND COMPLETE.
8. EXISTING SANITARY PIPING TO BE CUT AND REMOVED BEYOND COMPLETE.
9. EXISTING DOMESTIC PIPING TO BE CUT AND REMOVED BEYOND COMPLETE.
10. EXISTING DOOR GRILLE TO BE REMOVED COMPLETE.
11. EXISTING THERMOSTAT/CO2 SENSOR TO BE TEMPORARILY REMOVE AND RELOCATED COMPLETE.
12. EXISTING FIRE EXTINGUISHER TO BE TEMPORARILY REMOVED AND RELOCATED COMPLETE. PROVIDE NEW WALL BRACKET.
13. EXISTING DOMESTIC PIPING TO BE CUT AT MAIN AND REMOVED BEYOND COMPLETE.
14. EXISTING EXHAUST THRU ROOF/GOOSENECK TO BE REMOVED COMPLETE. EXISTING ROOF OPENING TO BE MODIFIED TO SUIT NEW DUCT PENETRATION.
15. EXISTING DUCTWORK TO BE REMOVED COMPLETE.
16. EXISTING FIRE DAMPER TO BE REMOVED COMPLETE.



GROUND FLOOR PART PLAN – DRAINAGE RENOVATION

SCALE: 1:100

GENERAL RENOVATION NOTES

- FREEZE OR DRAIN EXISTING PIPING AS REQUIRED TO FACILITATE CUT IN.
- CO-ORDINATE ROUGH-IN AND MOUNTING HEIGHTS OF FIXTURES WITH MILLWORK AND ARCHITECTURAL DETAILS.
- SANITARY VENT PIPING IS NOT SHOWN. PROVIDE ALL NECESSARY VENT PIPING FROM ALL FIXTURES FOR A COMPLETE SYSTEM TO ALL LOCAL PLUMBING CODE & LOCAL AUTHORITY REQUIREMENTS, CONNECTED TO EXISTING VENTS OR NEW VENTS AS REQUIRED. CO-ORDINATE VENT LOCATION(S) WITH GENERAL CONTRACTOR. MAINTAIN MINIMUM 3700mm (12'-0") FROM ANY AIR INLET. INSTALL VENT PIPING HIGH IN JOIST SPACE.
- ALL FLOOR DRAINS ARE TO BE VENTED AND TRAP SEAL PRIMED. PROVIDE AUTOMATIC TRAP SEAL PRIMERS, MANIFOLDS AND ASSOCIATED PIPING AS REQUIRED.

WATERLOO REGION DISTRICT SCHOOL BOARD

KEY PLAN

DEI
Consulting Engineers
MECHANICAL | ELECTRICAL | AQUATIC
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Phone: 519-725-3555
Website: deiassociates.ca
Project Number: 25450

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project

TRILLIUM JUNIOR PUBLIC SCHOOL INTERIOR RENOVATIONS
WATERLOO REGION DISTRICT SCHOOL BOARD

79 Laurentian Dr, Kitchener, ON N2E 1C3

drawing

GROUND FLOOR PART PLAN - DRAINAGE DEMOLITION & RENOVATION

drawing scale

AS NOTED

ward99 project number

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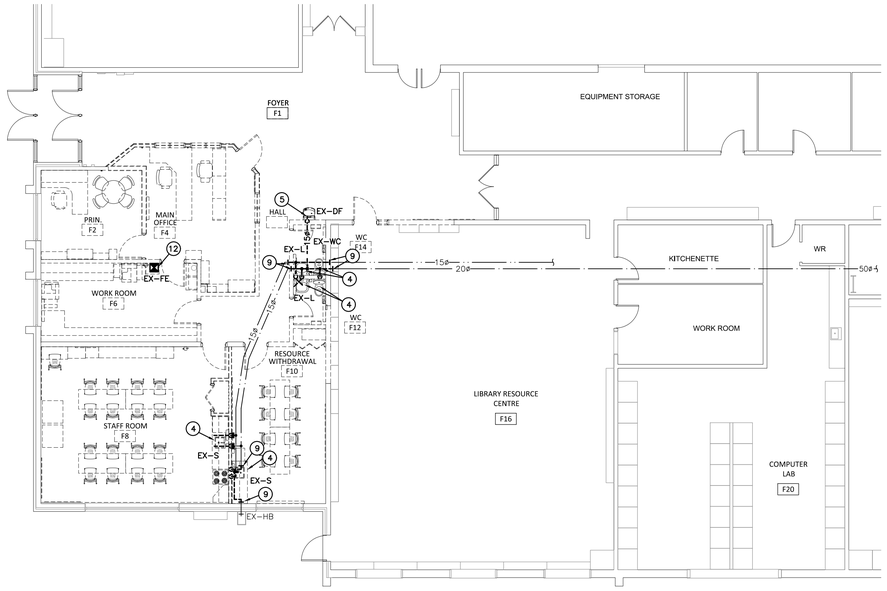
M2.1



GROUND FLOOR PART PLAN – DOMESTIC DEMOLITION
SCALE: 1:100

GENERAL NOTES

- ALL DRAWINGS SHALL BE READ IN CONJUNCTION WITH THE ASSOCIATED PROJECT SPECIFICATIONS.
- THIS CONTRACTOR SHALL TRACK REVISIONS ON SITE AND SUBMIT AS-BUILTS TO CONSULTANT TO DIGITIZE. REFER TO SPECIFICATIONS 21 02 51, 22 02 51 & 23 02 51.
- CONTRACTOR TO LOCATE ISOLATION VALVES / FREEZE PIPING / OR OTHERWISE DRAIN SYSTEMS TO ALLOW PROPOSED WORK TO PROCEED. REFILL SYSTEMS AS INDICATED.
- REFER TO SPECIFICATIONS FOR CONFORMANCE REQUIREMENTS.

SPECIFIC DEMOLITION NOTES

1. EXISTING DIFFUSER AND GRILLE TO BE REMOVED COMPLETE.
2. EXISTING DUCTWORK TO BE CUT AND REMOVED BEYOND COMPLETE.
3. EXISTING EXHAUST FAN AND DUCTWORK TO BE REMOVED COMPLETE.
4. EXISTING PLUMBING FIXTURE TO BE REMOVED COMPLETE. EXISTING SANITARY AND DOMESTIC PIPING TO BE CUT, CAPPED AND REMOVED BEYOND COMPLETE.
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6. EXISTING RWL UP TO EXISTING ROOF DRAIN TO BE REMOVED BEYOND COMPLETE.
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8. EXISTING SANITARY PIPING TO BE CUT AND REMOVED BEYOND COMPLETE.
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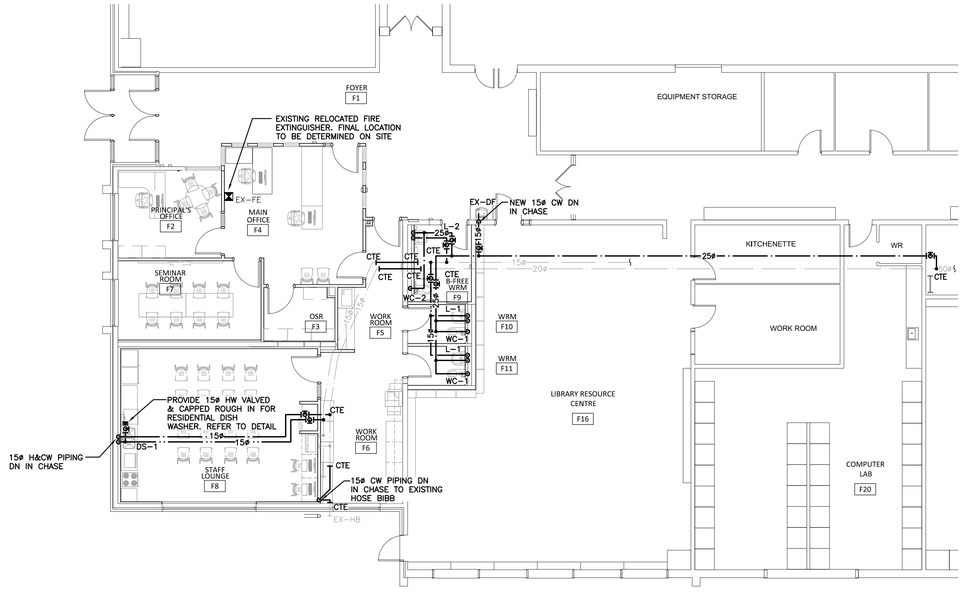

GROUND FLOOR PART PLAN – DOMESTIC RENOVATION
SCALE: 1:100

GENERAL RENOVATION NOTES

- CONTRACTOR TO LOCATE ISOLATION VALVES AND DRAIN SYSTEMS TO ALLOW PROPOSED WORK TO PROCEED. REFILL SYSTEMS AS INDICATED. FLUSHING, CLEANING & REFILLING WITH CLEAN WATER & CHEMICAL TO WATER TREATMENT CONTRACTOR REQUIREMENTS.
- FREEZE OR DRAIN EXISTING PIPING AS REQUIRED TO FACILITATE CUT IN.
- CO-ORDINATE ROUGH-IN AND MOUNTING HEIGHTS OF FIXTURES WITH MILLWORK AND ARCHITECTURAL DETAILS.

WATERLOO REGION DISTRICT SCHOOL BOARD

KEY PLAN

DEI
Consulting Engineers
MECHANICAL | ELECTRICAL | AQUATIC
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project
TRILLIUM JUNIOR PUBLIC SCHOOL INTERIOR RENOVATIONS
WATERLOO REGION DISTRICT SCHOOL BOARD

79 Laurentian Dr, Kitchener, ON N2E 1C3

drawing
GROUND FLOOR PART PLAN - DOMESTIC DEMOLITION & RENOVATION

drawing scale
AS NOTED

ward99 project number
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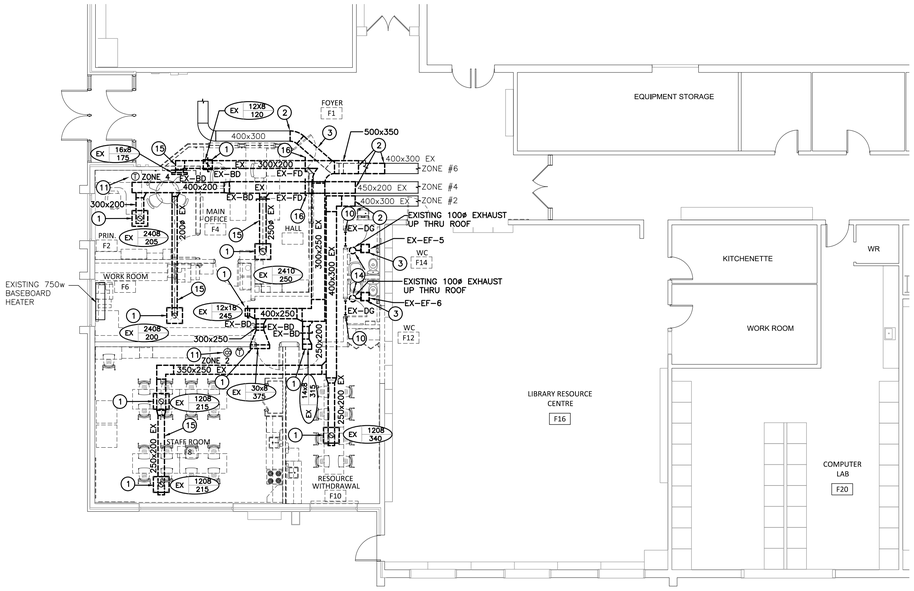
drawing no.
M2.2



GROUND FLOOR PART PLAN – DUCTWORK DEMOLITION

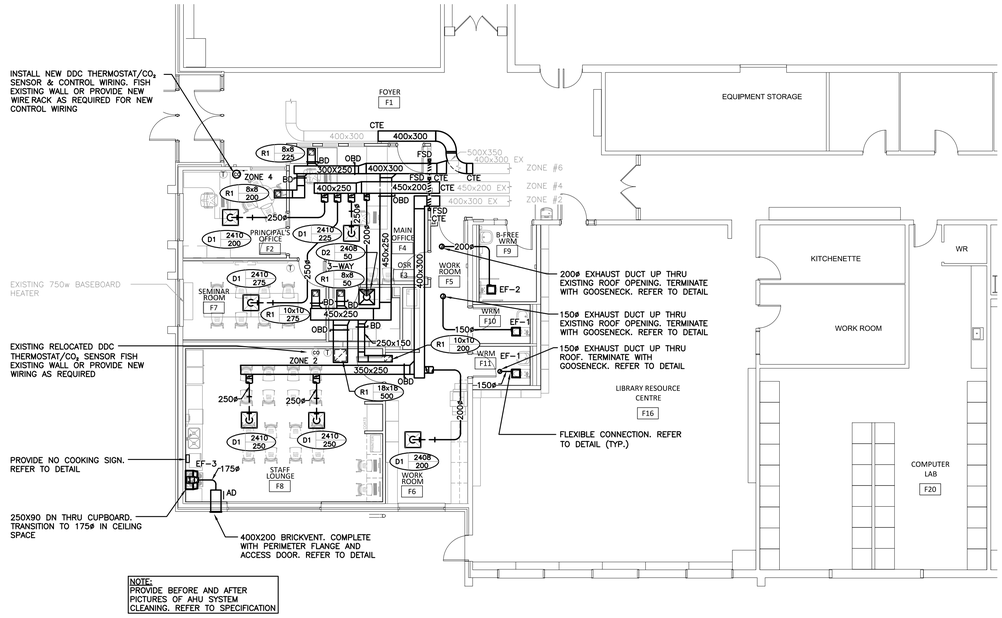
SCALE: 1:100

GENERAL NOTES

- ALL DRAWINGS SHALL BE READ IN CONJUNCTION WITH THE ASSOCIATED PROJECT SPECIFICATIONS.
- THIS CONTRACTOR SHALL TRACK REVISIONS ON SITE AND SUBMIT AS-BUILTS TO CONSULTANT TO DIGITIZE. REFER TO SPECIFICATIONS 21 02 51, 22 02 51 & 23 02 51.
- REFER TO SPECIFICATIONS FOR CONFORMANCE REQUIREMENTS.

SPECIFIC DEMOLITION NOTES

1. EXISTING DIFFUSER AND GRILLE TO BE REMOVED COMPLETE.
2. EXISTING DUCTWORK TO BE CUT AND REMOVED BEYOND COMPLETE.
3. EXISTING EXHAUST FAN AND DUCTWORK TO BE REMOVED COMPLETE.
4. EXISTING PLUMBING FIXTURE TO BE REMOVED COMPLETE. EXISTING SANITARY AND DOMESTIC PIPING TO BE CUT, CAPPED AND REMOVED BEYOND COMPLETE.
5. EXISTING PLUMBING FIXTURE TO BE REMOVED AND RELOCATED. EXISTING PIPING TO BE REMOVED COMPLETE.
6. EXISTING RWL UP TO EXISTING ROOF DRAIN TO BE REMOVED BEYOND COMPLETE.
7. EXISTING STORM PIPING TO BE CUT AND REMOVED BEYOND COMPLETE.
8. EXISTING SANITARY PIPING TO BE CUT AND REMOVED BEYOND COMPLETE.
9. EXISTING DOMESTIC PIPING TO BE CUT AND REMOVED BEYOND COMPLETE.
10. EXISTING DOOR GRILLE TO BE REMOVED COMPLETE.
11. EXISTING THERMOSTAT/CO2 SENSOR TO BE TEMPORARILY REMOVE AND RELOCATED COMPLETE.
12. EXISTING FIRE EXTINGUISHER TO BE TEMPORARILY REMOVED AND RELOCATED COMPLETE. PROVIDE NEW WALL BRACKET.
13. EXISTING DOMESTIC PIPING TO BE CUT AT MAIN AND REMOVED BEYOND COMPLETE.
14. EXISTING EXHAUST THRU ROOF/GOOSENECK TO BE REMOVED COMPLETE. EXISTING ROOF OPENING TO BE MODIFIED TO SUIT NEW DUCT PENETRATION.
15. EXISTING DUCTWORK TO BE REMOVED COMPLETE.
16. EXISTING FIRE DAMPER TO BE REMOVED COMPLETE.



NOTE:
PROVIDE BEFORE AND AFTER PICTURES OF AHU SYSTEM CLEANING. REFER TO SPECIFICATION.

GROUND FLOOR PART PLAN – DUCTWORK RENOVATION

SCALE: 1:100

GENERAL RENOVATION NOTES

- CO-ORDINATE LOCATIONS OF GRILLES/DIFFUSERS WITH ARCHITECTURAL REFLECTED CEILING PLANS. FINAL LOCATION TO BE DETERMINED ON SITE. CONTRACTOR TO NOTIFY CONSULTANT OF ANY DISCREPANCIES PRIOR TO INSTALLATION. FAILURE TO DO SO WILL RESULT IN RELOCATION COSTS BORNE BY THIS CONTRACTOR.
- WHERE DUCTWORK PENETRATES CORRIDOR WALL, CENTER DUCT(S) BETWEEN OWSJ.
- RE-BALANCE ALL NEW, EXISTING, AND RELOCATED DIFFUSERS, GRILLES, & DUCTWORK TO CAPACITIES AS INDICATED

WATERLOO REGION DISTRICT SCHOOL BOARD

KEY PLAN

DEI
Consulting Engineers
MECHANICAL | ELECTRICAL | AQUATIC
55 Northland Road, Waterloo, ON N2V 1Y8
Phone: 519-725-3555
Website: deiassociates.ca
Project Number: 25450

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LICENSED PROFESSIONAL ENGINEER
1 Apr 26
M.B. WHITE
100149077
PROVINCE OF ONTARIO

no.	issue	date
1	Issued for Permit & Tender	2026.04.02

project
TRILLIUM JUNIOR PUBLIC SCHOOL INTERIOR RENOVATIONS
WATERLOO REGION DISTRICT SCHOOL BOARD

79 Laurentian Dr, Kitchener, ON N2E 1C3

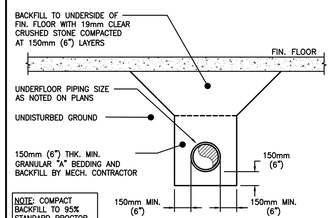
drawing
GROUND FLOOR PART PLAN - DUCTWORK
DEMOLITION & RENOVATION

drawing scale
AS NOTED

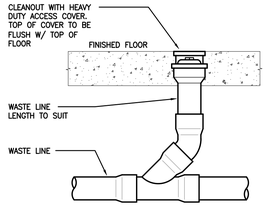
ward99 project number
25022 - WRDSB TRILLIUM PS

ward99 architects
ward99 architects inc.
7500 Highway 27, Unit 27B
Vaughan ON L4H 0J2
info@ward99architects.com
416 613 5880 www.ward99architects.com

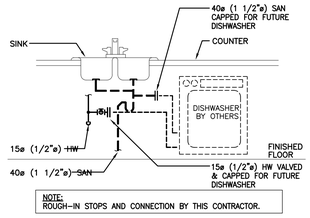
drawing no.
M2.3



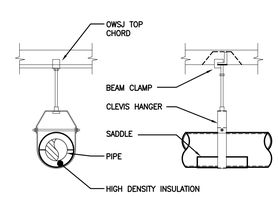
INTERIOR PIPE BEDDING



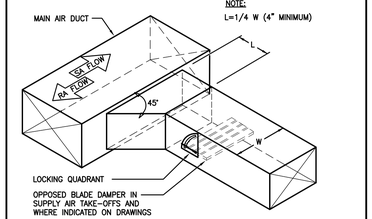
CLEANOUT



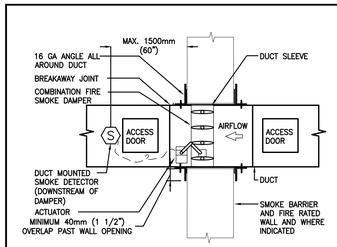
RESIDENTIAL DISHWASHER ROUGH-IN



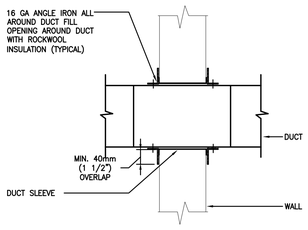
PIPE HANGER



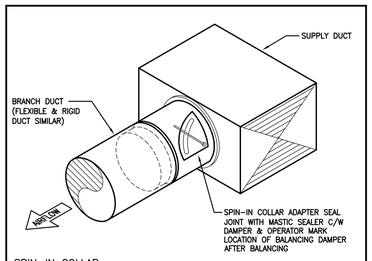
SQUARE DUCT BRANCH TAKEOFF



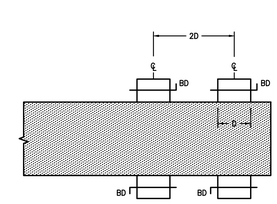
COMBINATION FIRE/SMOKE DAMPER INSTALLATION



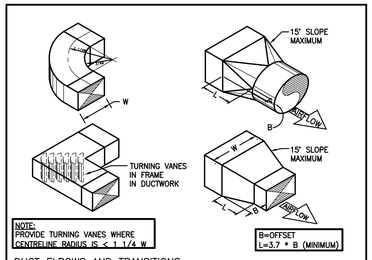
DUCT THRU NON RATED FIRE SEPERATION



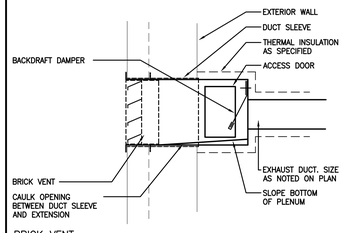
SPIN-IN COLLAR



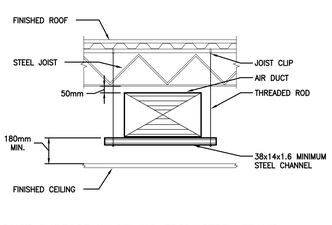
MULTIPLE SPIN-IN COLLAR INSTALLATION



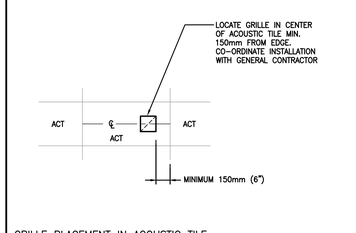
DUCT ELBOWS AND TRANSITIONS



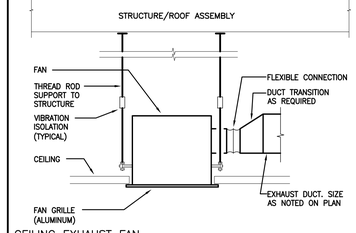
BRICK VENT



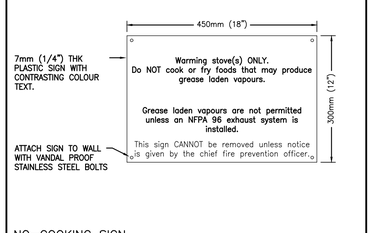
DUCT SUPPORT IN CEILING FROM STEEL FRAME



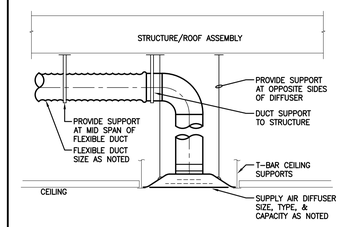
GRILLE PLACEMENT IN ACOUSTIC TILE



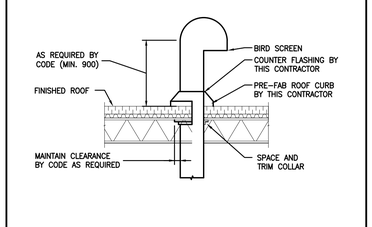
CEILING EXHAUST FAN



NO-COOKING SIGN



TYPICAL DIFFUSER



EXHAUST GOOSENECK DETAIL

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drawing scale
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M3.1