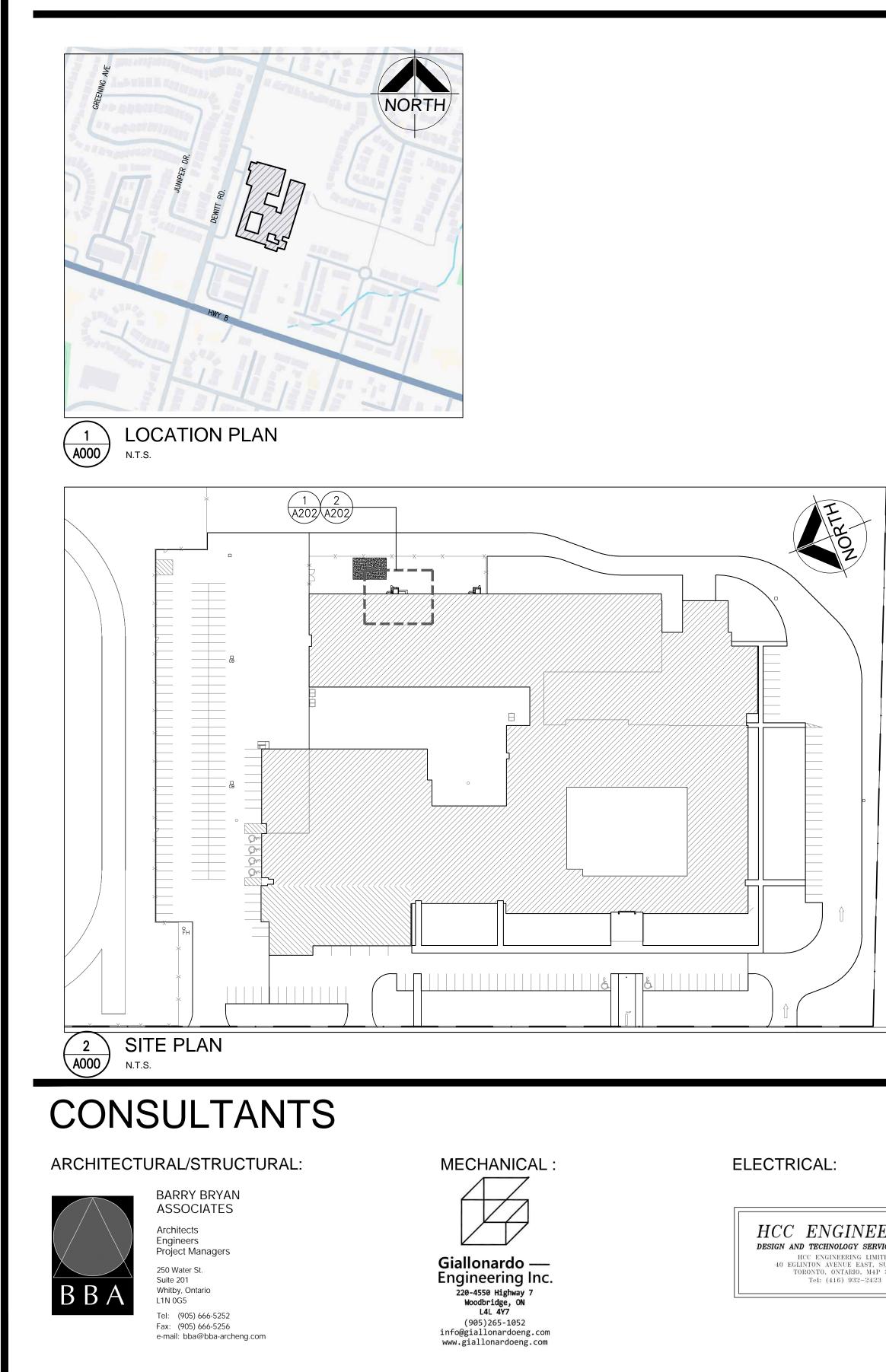
Orchard Park Secondary School Dust Collector Replacement

200 Dewitt Road Hamilton, Ontario



LIST OF DRAWINGS

ARCHITECTURAL

<u></u>	
A001	OBC MATRIX, OVERALL KEY PLAN LOCATION PLAN & DRAWING LIST
A201	OVERALL GROUND FLOOR PLAN
A202	#1073 WORK SHOP FLOOR PLAN - DUST COLLECTOR : DEMO
A203	#1073 WORK SHOP FLOOR PLAN - DUST COLLECTOR : RENO
A301	#1073 WORK SHOP ELEVATION - DUST COLLECTOR
<u>STRUCTI</u>	JRAL
S201	GENERAL NOTES AND DETAILS
MECHAN	ICAL
M - 0	TITLE SHEET
M - 1.1	MECHANICAL LEGEND
M - 1.2	MECHANICAL SCHEDULES AND DETAILS
M - 2.1	DUST COLLECTION SYSTEM - DEMOLITION
M - 2.2	DUST COLLECTION SYSTEM - NEW
M - 2.3	DUST COLLECTION SYSTEM - EAST ELEVATION
ELECTRI	CAL
E - 1.1	ELECTRICAL LEGEND AND DETAILS
E - 1.2	ELECTRICAL DETAILS
E - 2.1	ELECTRICAL PLAN PARTIAL GROUND FLOOR
E - 4.1	ELECTRICAL GROUNDING SYSTEM DETAILS
E - 7.1	ELECTRICAL SINGLE LINE DIAGRAM

- ELECTRICAL PLAN WOOD SHOP E - 9.1
- ELECTRICAL DEMOLITION PLAN WOOD SHOP E - 9.2

250 WATER STREET, SUITE 201 WHITBY, ONTARIO, CANADA. LIN 0G5 TEL : (905) - 666 - 5252 (Toronto) (905) - 427 - 4495 FAX : (905) - 666 - 5256 NAME OF PROJECT : ORCHARD PARK SECONDARY SCHOOL

CERTIFICATE OF PRACTICE NUMBER : 5192

DUST COLLECTOR REPLACEMENT LOCATION OF PROJECT :

200 DEWITT ROAD HAMILTON, ONTARIO DATE :

JANUARY 22, 2025

54107		
	Ontario Building Code Data Matrix	e
	Part 11 - Renovation	
11.00	Building Code Versio	
11.01	Project Type:	Addition Change of use
		Description DUST COLI
11.02	Major	Occupancy
	Occupancy Classification:	Group A, Division 2
	Classification.	
11.03	Superimposed	□ Yes ■ No
	Major Occupancies:	Description
11.04	Building Area (m ²)	Description Wood Shop Renovat
		Total=
11.05	Building Height*	1 Store
		0 Store
11.06	Number of streets/	1 street(s)
	fire fighter access:	
11.07	Building Size:	🗆 Small 🛛 🗆 Mediui
11.08	Existing Building	Change in Major Occupan
	Classification:	
		Construction Index:
		Hazard Index:
		Importance Category:
11.09	Renovation Type:	Basic Renovation
11.10	Occupant Load:	Floor Level/ Area C
		NO CHANGE
11.11a	Plumbing Fixture	Ratio: Male/Female = 50
	Requirements:	Floor level/ Area Occ
		NO CHANGE
11.11b	Plumbing Fixture	
	Requirements:	Floor level/ Area B.F. (Repeated) Re
	cont.	NO CHANGE
11.12	Barrier-free Design:	SCOPE NOT RELATED
		■ Yes □ No Barrier-Free Entrances:
11.13	Reduction in	Structural
11.15	Performance Level:	By Increase in occupant loa
		By change of major occupa Plumbing
		Sewage - system:
11.14	Compensating	☐ Yes ■ No
	Construction:	Structural
		By Increase in occupant loa
		By change of major occupa Plumbing
		Sewage - system:
		Extension of Combustible
		Construction:
11.15	Compliance Alternatives	■ No □ Yes
	Proposed:	
11.16	Notes:	
		REPLACE EXISTING DUS
		AREA SCOPE OF WORK

HCC ENGINEERING DESIGN AND TECHNOLOGY SERVICES GROUP HCC ENGINEERING LIMITED 40 EGLINTON AVENUE EAST, SUITE 600 TORONTO, ONTARIO, M4P 3A2 Tel: (416) 932-2423

NAME OF CONSULTANT : BARRY BRYAN ASSOCIATES

	OBC Reference
Last Amendment: O. Reg. 89/23 Renovation Addition and Renovation	[A] 1.1.2.
LECTOR REPLACEMENT AT WOOD SHOP	
Use Elementary School	3.1.2.1.(1) & 11.2.
	11.2 & 3.2.2.5 3.2.2.8.
tion <u>Existing</u> <u>New</u> <u>Total</u> ±2,170sf <u>±2,17</u> 0sf	[A] 1.4.1.2., 11.2, 11.3.
<u>+2,17</u> 0sf <u>+2,17</u> 0sf	
ys above grade (m) Above grade ys below grade	[A] 1.4.1.2 & 3.2.1.1 & 11.3.
	3.2.2.10, 3.2.5 & 11.3.
m ■ Large □ > Large	T.11.2.1.1.BN.
cy: ☐ Yes ■ Not Applicable (no change of major occupancy)	11.2.1 T11.2.1.1A T11.2.1.1B
	to N, 4.2.1(3)
□ Low ■ Normal	& 5.2.2.1. (2)
 High Post-disaster Extensive Renovation 	11.3.3.1 & 11.3.3
Occupancy Type Based On Occup. Load	3.1.17, 11.4.2.2.
0:50 Except as noted otherwise	3.7.4
cupant OBC Fixtures Fixtures bad Reference Required Provided	
Fixture B.F. Fixture Uni. Fixture Uni. Fixtures quired Provided Required Provided	Tables 3.8.2.3.A
	and 3.8.2.3.B
TO B.F. Explanation	11.3.3.2.(2)
Explanation	11.4.2.1
ad: ■ No □ Yes ancy: ■ No □ Yes	11.4.2.2 11.4.2.3
■ No■ Yes■ No□ Yes	11.4.2.4 11.4.2.5
	11.4.2.6
■ No □ Yes ad: ■ No □ Yes	11.4.2.2 11.4.2.3
ancy: ■ No □ Yes	11.4.2.4
 No □ Yes No □ Yes 	11.4.2.6 11.4.2.7
	11.5.1.
ST COLLECTOR WITH NEW DUST COLLECTOR	11.5.1
= ± 2,170 SF	
- ± 2,170 SI	

DO NOT SCALE THE DRAWINGS CHECK AND VERIFY ALL DIMENSIONS AT THE SITE.

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NO.	ISSUES	DATE	BY	
1	ISSUED FOR 60% REVIEW	DEC. 06, 2024	BBA	
2	ISSUED FOR PERMIT	JAN. 22, 2025	BBA	
3	ISSUED FOR TENDER	APR. 28, 2025	BBA	
NO.	REVISIONS	DATE	BY	
PROJECT: ORCHARD PARK SECONDARY SCHOOL DUST COLLECTOR REPLACEMENT 200 DEWITT ROAD HAMILTON, ONTARIO L8N 3L1 HAMILTON-WENTWORTH DISTRICT SCHOOL BOARD				
HAM	LTON-WENTWORTH DISTRICT SC	CHOOL E	BOARD	

DRAWING:

OBC MATRIX, OVERALL KEY PLAN, LOCATION PLAN & DRAWING LIST

DESIGN BY:

BBA

ΚW

DATE:

SCALE:

N.T.S.

FILE:

DRAWN BY:

CHECKED BY:

DEC. 06, 2024

DRAWING NO:

A001

DOC CONTROL: DATE:

% COMPLETE:

INITIAL:



BARRY BRYAN ASSOCIATES

Architects

Engineers

Project Managers

250 Water Street

Whitby Ontario

PROJECT NO:

Tel: (905) 666-5252

Fax: (905) 666-5256

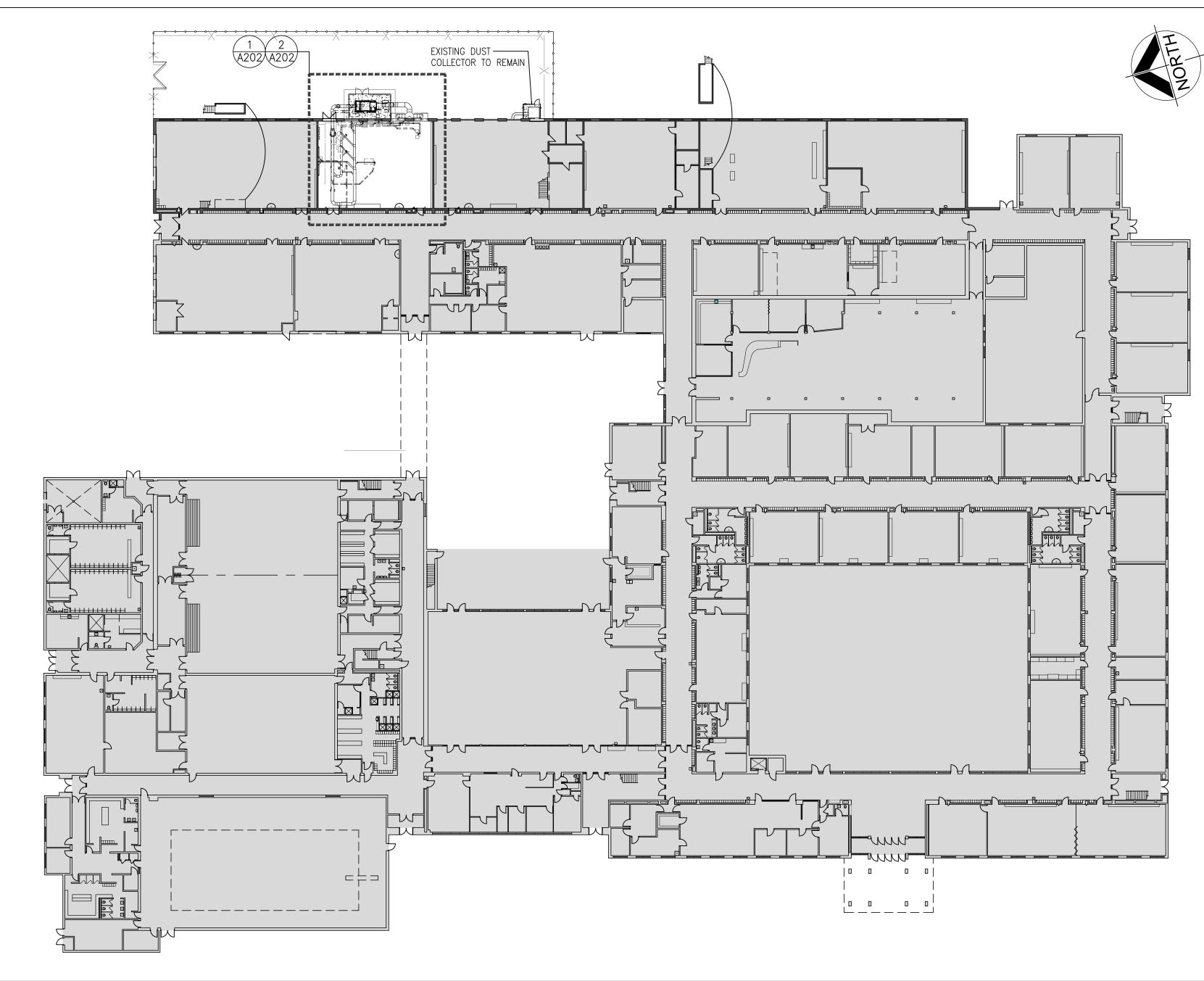
e-mail: bba@bba-archeng.com

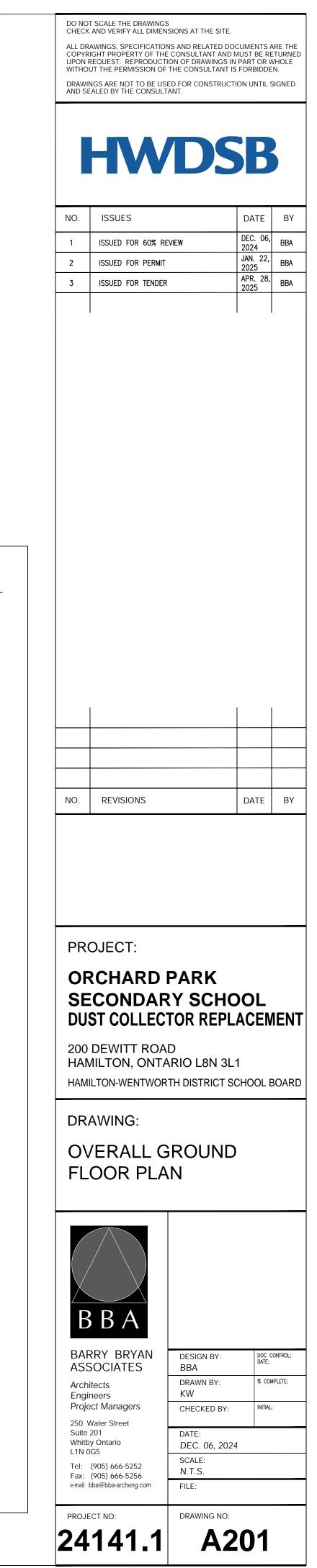
24141.1

Suite 201

L1N 0G5

(1) (A201)





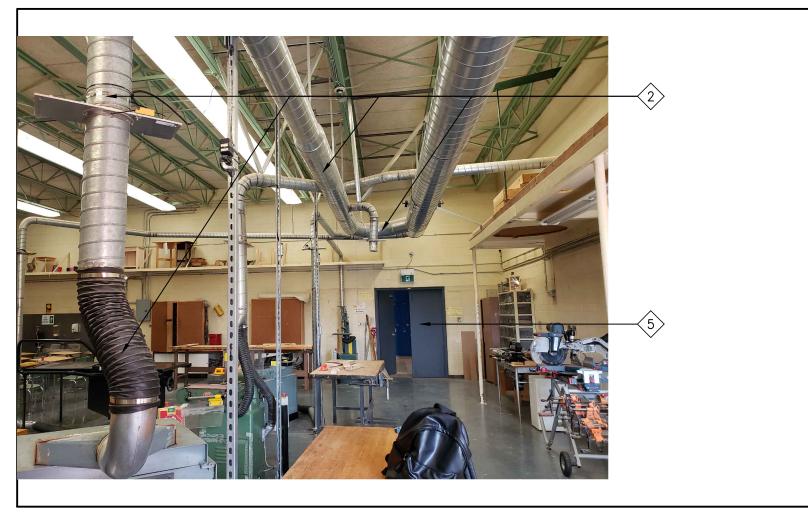


PHOTO-P3

T١	PICAL DEMOLITION NOTES	DEMOLITION NOTES
1.	SITE VERIFY ALL DIMENSIONS AND CONDITIONS.	
2.	ALL WORK TO BE IN ACCORDANCE WITH THE ONTARIO BUILDING CODE AND THE OCCUPATIONAL HEALTH AND SAFETY ACT REGULATIONS FOR CONSTRUCTION PROJECTS.	EXISTING CHAINLINK FENCE AND GATE TO BE REMOVED EXISTING MECHANICAL DUST COLLECTOR AND DUCT WOR
3.	PROVIDE PROTECTION IN LOCATIONS APPROVED BY THE OWNER AND CONSULTANT SO AS NOT TO DAMAGE EXISTING STRUCTURE, OR PART THEREOF.	REMOVED IN IT'S ENTIRETY. REFER TO MECHANICAL & E FINISHES BY THE REMOVAL SHALL BE RESTORED TO EX CONDITIONS.
4.	COMPLETE ALL DEMOLITION WORK NECESSARY TO COMPLETE THE RENOVATIONS AS SHOWN AND AS REQUIRED. DEMOLITION OF BUILDING ELEMENTS INCLUDES COMPLETE REMOVAL OF ALL ASSOCIATED FIXTURES, FITTINGS, HARDWARE, FASTENERS, EQUIPMENT AND ACCESSORIES UNLESS	3 EXISTING CONCRETE PAD TO BE REMOVED IN IT'S ENTIR PATHWAY AND SOD TO BE PATCHED, REPAIRED AND MAI ALL AFFECTED SURFACES FOR NEW WORK.
5.	NOTED OTHERWISE. ARCHITECTURAL, MECHANICAL AND ELECTRICAL DEMOLITION DRAWINGS ARE COMPLEMENTARY AND SHALL BE READ TOGETHER.	EXISTING EXTERIOR WALL TO BE PROTECTED DURING NE PATCH, REPAIR AND MAKE GOOD ALL AFFECTED SURFAC
6.	NOTIFY CONSULTANT OF LOAD BEARING MEMBERS OR ASSEMBLIES IDENTIFIED OR DISCOVERED DURING WORK AND NOT INDICATED ON DRAWINGS. DO NOT PROCEED WITH REMOVALS WITHOUT PRIOR REVIEW BY	EXISTING WINDOW TO BE PROTECTED DURING NEW WOR REPAIR AND MAKE GOOD ALL AFFECTED SURFACES.
	THE CONSULTANT.	5 REMOVE TOP WINDOW SECTION TO ACCOMMODATE NEW PENETRATION
7.	PROVIDE TEMPORARY SUPPORT OF PIPES, DUCTS AND ELECTRICAL CHASES AS REQUIRED FOR SAFE REMOVAL. EXISTING AND PROPOSED SUPPORTS ARE TO BE REVIEWED BY THE CONSULTANT PRIOR TO THE REMOVAL OF ANY COMPONENTS WHICH MAY FALL. OR CAUSE OTHERS TO FALL.	6 EXISTING DOOR AND FRAME TO BE PROTECTED DURING WORK. PATCH, REPAIR AND MAKE GOOD ALL AFFECTED
8.	MAINTAIN WORK AREAS AND STORAGE AREAS CLEAN AND ORDERLY AT ALL TIMES.	DEMOLITION LEGEND
9.	DEMOLITION INCLUDES ALL ASSOCIATED MECHANICAL AND ELECTRICAL SERVICES, EQUIPMENT, FITTINGS, FIXTURES, HANGERS, BRACKETS, TRIM AND ACCESSORIES AS REQUIRED TO COMPLETE THE WORK.	EXISTING WALL, PARTITION OR COLUM
10.	MAINTAIN EXISTING FIRE HOSE CABINETS AND FIRE RATINGS.	
11.	REMOVAL OF DOORS AND FRAMES IS TO INCLUDE REMOVAL OF ALL HARDWARE.	DENOTES DEMOLITION OF BUILDING E
12.	REMOVAL ALL PROTRUSIONS IN FLOOR SLAB AND GRIND DOWN TO FLOOR LEVEL.	EXISTING DOOR, FRAME AND TRIM TO
13.	CLEAN AND REPAIR ALL EXISTING SURFACES TO REMAIN, AS NECESSARY TO RECEIVE NEW FINISHES.	
14.	DISCONNECT AND CAP OFF ALL SERVICES PRIOR TO DEMOLITION.	EXISTING DUST COLLECTOR UNIT AND
15.	DISPOSE OF ALL MATERIALS OFF SITE. COORDINATE ITEMS FOR SALVAGE $/$ HANDOVER WITH OWNER.	
16.	CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO THE EXISTING STRUCTURE OR FINISHES SHOWN TO REMAIN AND REPAIR / REPLACE SAME TO THE SATISFACTION OF THE OWNER AND CONSULTANT.	
17.	CONSTRUCTION AREA TO BE SECURED AT ALL TIMES.	FLOOR PLAN NOTATIC

ROOM NAME

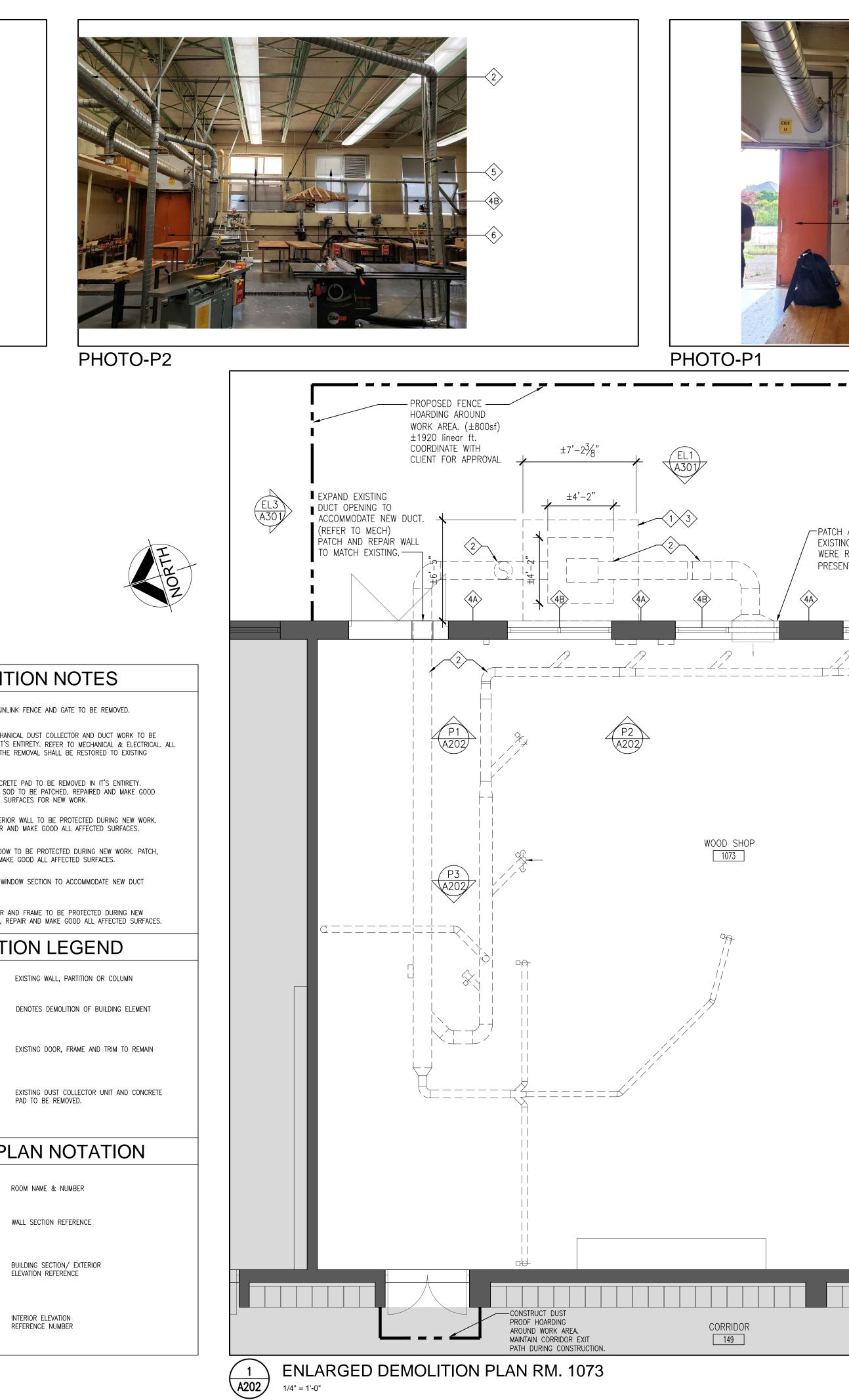
RM #

1 A200

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A901

- 18. WHERE EXISTING CONSTRUCTION IS FOUND TO CONTAIN ANY HAZARDOUS MATERIAL, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE OWNER AND THE CONSULTANT IN WRITING. NOTE: REMOVAL, DISPOSAL AND REPLACEMENT OF THE HAZARDOUS MATERIAL SHALL BE IN ACCORDANCE WITH PROVINCE, LOCAL AND FEDERAL REGULATIONS. DESIGNATED SUBSTANCE SURVEY WAS COMPLETED NO CONCERNS WERE IDENTIFIED.
- 19. REMOVE EXISTING CEILINGS FOR EXTENT SHOWN AND AS REQUIRED. HAND OVER REDUNDANT HVAC DIFFUSERS AND GRILLES TO OWNER FOR REUSE. PROVIDE NEW CEILING TRIM AND GRID SYSTEM TO MATCH EXISTING WHERE REQUIRED TO MAKE GOOD EXISTING CEILINGS.
- COORDINATE ALL DEMOLITION WORK WITH ABATEMENT AND HAZARDOUS REMOVALS IDENTIFIED IN ASBESTOS ABATEMENT SPECIFICATION.
- 21. CONTRACTOR IS RESPONSIBLE FOR FINAL CLEAN OF AREA.



	DO NOT SCALE THE DRAWINGS CHECK AND VERIFY ALL DIMENSIONS AT ALL DRAWINGS, SPECIFICATIONS AND RE COPYRIGHT PROPERTY OF THE CONSUL- UPON REQUEST. REPRODUCTION OF DR WITHOUT THE PERMISSION OF THE CON- DRAWINGS ARE NOT TO BE USED FOR CO AND SEALED BY THE CONSULTANT.	ELATED DOCUMENTS ARE THE TANT AND MUST BE RETURNED AWINGS IN PART OR WHOLE SULTANT IS FORBIDDEN. ONSTRUCTION UNTIL SIGNED
AND REPAIR WALL TO MATCH NG WALL FINISH WHERE PANELS REMOVED AND IF HOLES ARE NT. (TYP.) 5 4A F == = = = = = = = = = = = = = = = = =	NO. REVISIONS	DATE BY
β.	PROJECT: ORCHARD PAR SECONDARY S DUST COLLECTOR 200 DEWITT ROAD HAMILTON, ONTARIO L HAMILTON-WENTWORTH DIS DRAWING: #1073 WORK SI FLOOR PLAN - COLLECTOR : D	CHOOL REPLACEMENT -8N 3L1 TRICT SCHOOL BOARD HOP DUST
CORRIDOR 1086	Image: Constraint of the second system Image: Constraint of the second system Image: Constraint of the second system Image: Constraint of the second system Image: Constraint of the second system Image: Constraint of the second system Image: Constraint of the second system Image: Constraint of the second system Image: Constraint of the second system Image: Constraint of the second system Image: Constraint of the second system Image: Constraint of the second system Image: Constraint of the second system Image: Constraint of the second system Image: Constraint of the second system Image: Constraint of the second system Image: Constraint of the second system Image: Constraint of the second system Image: Constraint of the second system Image: Constraint of the second system Image: Constraint of the second system Image: Constraint of the second system Image: Constraint of the second system Image: Constraint of the second system Image: Constraint of the second system Image: Constraint of the second system Image: Constraint of the second system Image: Constraint of the second system Image: Constraint of the second system Image: Constraint of the second system Image: Constraint of the second system Image: Consecond system <t< td=""><td>GN BY: DOC CONTROL: DATE: /N BY: % COMPLETE: JJA KED BY: INITIAL: . 06, 2024</td></t<>	GN BY: DOC CONTROL: DATE: /N BY: % COMPLETE: JJA KED BY: INITIAL: . 06, 2024
		/ING NO: A202

TYPICAL DEMOLITION NOTES

- I. SITE VERIFY ALL DIMENSIONS AND CONDITIONS.
- 2. ALL WORK TO BE IN ACCORDANCE WITH THE ONTARIO BUILDING CODE AND E OCCUPATIONAL HEALTH AND SAFETY ACT REGULATIONS FOR CONSTRUCTION PROJECTS.
- PROVIDE PROTECTION IN LOCATIONS APPROVED BY THE OWNER AND CONSULTANT SO AS NOT TO DAMAGE EXISTING STRUCTURE, OR PART THEREOF.
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- ARCHITECTURAL, MECHANICAL AND ELECTRICAL DEMOLITION DRAWINGS ARE COMPLEMENTARY AND SHALL BE READ TOGETHER.
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- 8. MAINTAIN WORK AREAS AND STORAGE AREAS CLEAN AND ORDERLY AT ALL TIMES.
- DEMOLITION INCLUDES ALL ASSOCIATED MECHANICAL AND ELECTRICAL SERVICES, EQUIPMENT, FITTINGS, FIXTURES, HANGERS, BRACKETS, TRIM AND ACCESSORIES AS REQUIRED TO COMPLETE THE WORK.
- 10. MAINTAIN EXISTING FIRE HOSE CABINETS AND FIRE RATINGS.
- 11. REMOVAL OF DOORS AND FRAMES IS TO INCLUDE REMOVAL OF ALL HARDWARE.
- 12. REMOVAL ALL PROTRUSIONS IN FLOOR SLAB AND GRIND DOWN TO FLOOR LEVEL.
- 13. CLEAN AND REPAIR ALL EXISTING SURFACES TO REMAIN, AS NECESSARY TO RECEIVE NEW FINISHES.
- 14. DISCONNECT AND CAP OFF ALL SERVICES PRIOR TO DEMOLITION.
- 15. DISPOSE OF ALL MATERIALS OFF SITE. COORDINATE ITEMS FOR SALVAGE / HANDOVER WITH OWNER.
- 16. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO THE EXISTING STRUCTURE OR FINISHES SHOWN TO REMAIN AND REPAIR / REPLACE SAME TO THE SATISFACTION OF THE OWNER AND CONSULTANT.
- 17. CONSTRUCTION AREA TO BE SECURED AT ALL TIMES. 18. WHERE EXISTING CONSTRUCTION IS FOUND TO CONTAIN ANY HAZARDOUS MATERIAL, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE OWNER AND THE CONSULTANT IN WRITING. NOTE: REMOVAL, DISPOSAL AND REPLACEMENT OF THE HAZARDOUS MATERIAL SHALL BE IN ACCORDANCE WITH PROVINCE, LOCAL AND FEDERAL REGULATIONS. DESIGNATED
- SUBSTANCE SURVEY WAS COMPLETED NO CONCERNS WERE IDENTIFIED. 19. REMOVE EXISTING CEILINGS FOR EXTENT SHOWN AND AS REQUIRED. HAND OVER REDUNDANT HVAC DIFFUSERS AND GRILLES TO OWNER FOR REUSE. PROVIDE NEW CEILING TRIM AND GRID SYSTEM TO MATCH EXISTING WHERE REQUIRED TO MAKE GOOD EXISTING CEILINGS.
- 20. COORDINATE ALL DEMOLITION WORK WITH ABATEMENT AND HAZARDOUS REMOVALS IDENTIFIED IN ASBESTOS ABATEMENT SPECIFICATION.
- 21. CONTRACTOR IS RESPONSIBLE FOR FINAL CLEAN OF AREA.

	EXISTING	CHAINL	INK FE	ENCE	AND G
2>	Existing Removed Finishes Condition	IN IT'S BY THE	ENTIF	RETY.	REFER
$\langle 3 \rangle$	EXISTING (PATHWAY) ALL AFFEC	AND SC	D TO	BE F	PATCHE
	EXISTING PATCH, RI				
(4B)	EXISTING REPAIR AN	WINDOW ND MAK	to e E goo	3e pr DD AL	OTECTE
5	REMOVE T PENETRAT	OP WIN	IDOW :	SECTI	ON TO
6	EXISTING WORK. PA				
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					DUST (Be Rem
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c 🌔	D 1 A901 B	A			LEVATIO NUME

DEMOLITION NOTES

GATE TO BE REMOVED.

ECTOR AND DUCT WORK TO BE R TO MECHANICAL & ELECTRICAL. ALL BE RESTORED TO EXISTING

REMOVED IN IT'S ENTIRETY. ED, REPAIRED AND MAKE GOOD WORK.

PROTECTED DURING NEW WORK. ALL AFFECTED SURFACES.

CTED DURING NEW WORK. PATCH, FECTED SURFACES.

ACCOMMODATE NEW DUCT

E PROTECTED DURING NEW GOOD ALL AFFECTED SURFACES.

EGEND

PARTITION OR COLUMN

LITION OF BUILDING ELEMENT

, FRAME AND TRIM TO REMAIN

COLLECTOR UNIT AND CONCRETE MOVED.

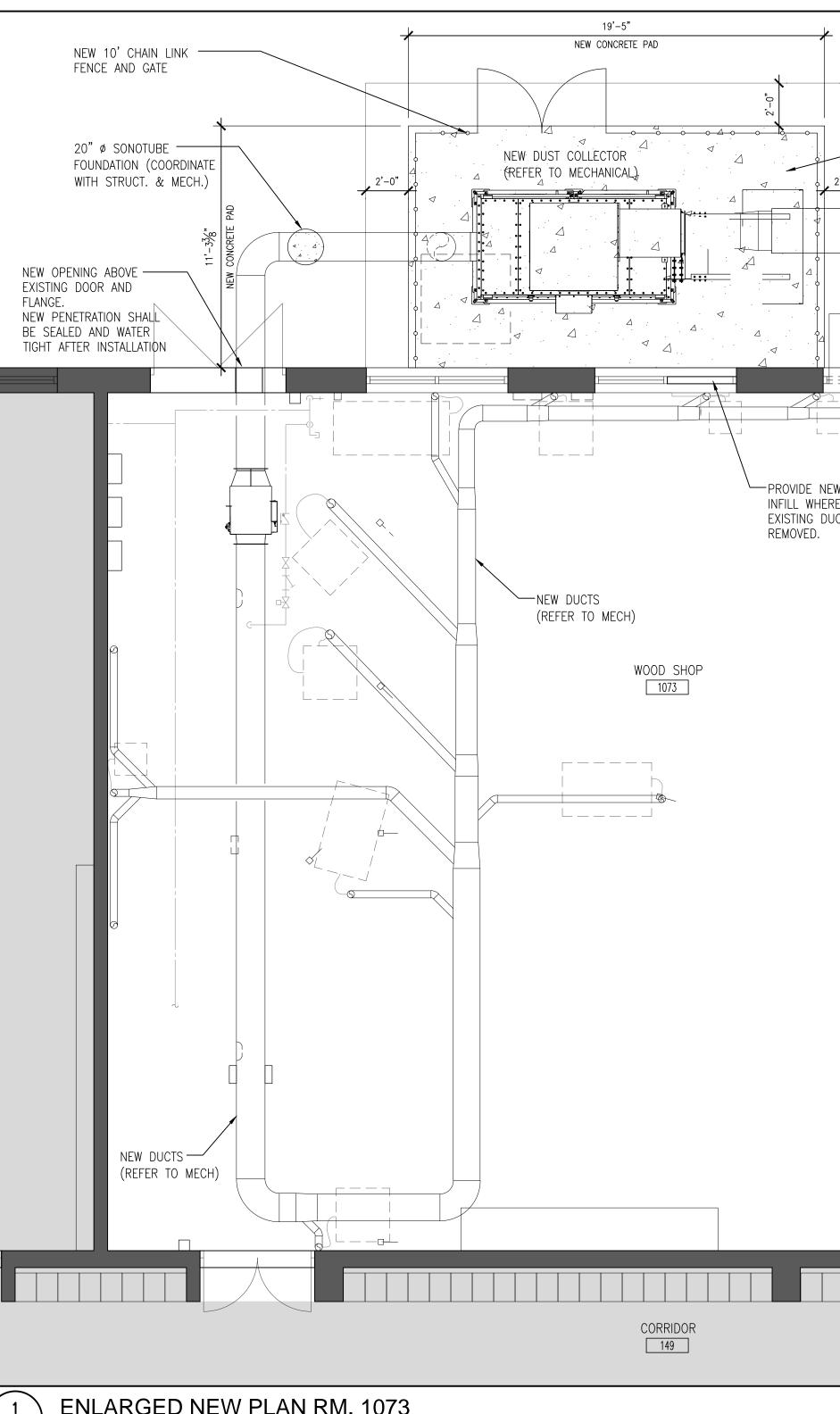
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REFERENCE

ON/ EXTERIOR RENCE

BER



ENLARGED NEW PLAN RM. 1073 A203

1/4" = 1'-0"

		HW	DSE	3
	NO.	ISSUES	DAT	E BY
	1	ISSUED FOR 60% RE	EVIEW DEC. 2024 JAN.	DDA 17
	2 3	ISSUED FOR PERMIT	2025	28, DDA
NEW ASPHALT TO MATCH SLOPE (AWAY FROM SLAB) NEW FLOATING 8" CONCRETE PAD (REFER TO STRUCT)	NO.	REVISIONS	DAT	E BY
	ОГ SE DU 200 НАМ НАМ В Л С Я С Я С Я	ST COLLEC DEWITT ROA AILTON, ONTA ILTON-WENTWOR AWING: 073 WOR OOR PLA	K SHOP	EMENT
	BAF ASS Archi Engin Proje 250 V Suite Whitb L1N 0 Tel: Fax:	B B A B A	BBA DRAWN BY: KW / JJA	DOC CONTROL: IATE: 6 COMPLETE: NITIAL:
		ECT NO: 141.1	drawing no:	3
				ļ

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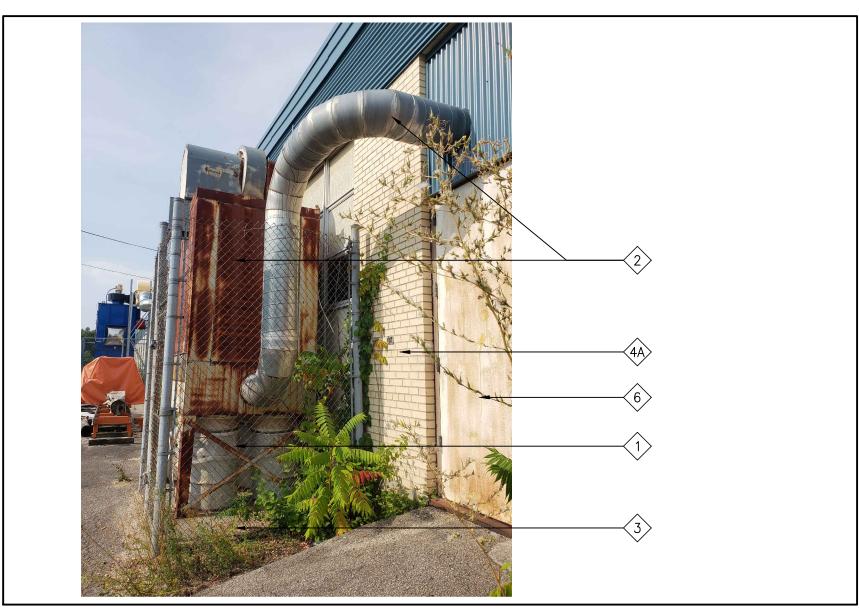
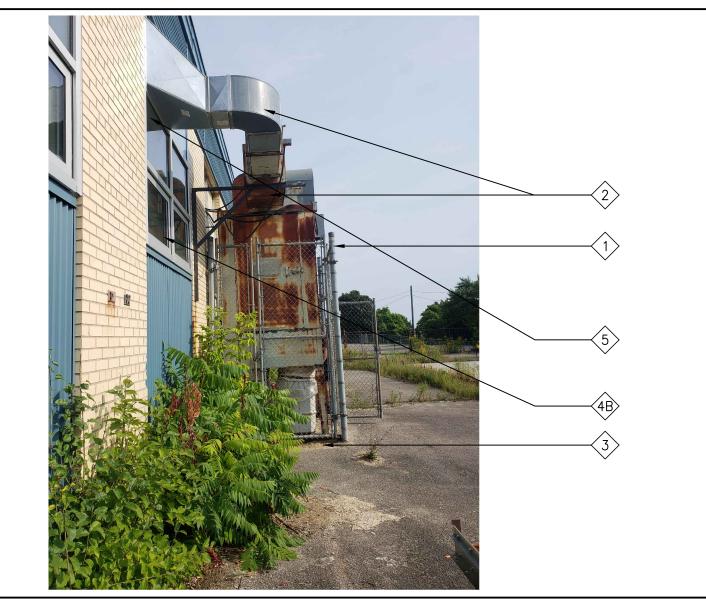


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T١	PICAL DEMOLITION NOTES	DEMOLITION NO
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5.	ARCHITECTURAL, MECHANICAL AND ELECTRICAL DEMOLITION DRAWINGS ARE COMPLEMENTARY AND SHALL BE READ TOGETHER.	4A EXISTING EXTERIOR WALL TO BE PROTEC PATCH, REPAIR AND MAKE GOOD ALL AF
6.	NOTIFY CONSULTANT OF LOAD BEARING MEMBERS OR ASSEMBLIES IDENTIFIED OR DISCOVERED DURING WORK AND NOT INDICATED ON DRAWINGS. DO NOT PROCEED WITH REMOVALS WITHOUT PRIOR REVIEW BY THE CONSULTANT.	EXISTING WINDOW TO BE PROTECTED DU REPAIR AND MAKE GOOD ALL AFFECTED
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17.	CONSTRUCTION AREA TO BE SECURED AT ALL TIMES.	FLOOR PLAN NO
18.	WHERE EXISTING CONSTRUCTION IS FOUND TO CONTAIN ANY HAZARDOUS MATERIAL, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE OWNER AND THE CONSULTANT IN WRITING. NOTE: REMOVAL, DISPOSAL AND REPLACEMENT OF THE HAZARDOUS MATERIAL SHALL BE IN ACCORDANCE WITH PROVINCE, LOCAL AND FEDERAL REGULATIONS. DESIGNATED SUBSTANCE SURVEY WAS COMPLETED NO CONCERNS WERE IDENTIFIED.	ROOM NAME RM # ROOM NAME & NUMBE WALL SECTION REFERE
19.	REMOVE EXISTING CEILINGS FOR EXTENT SHOWN AND AS REQUIRED. HAND OVER REDUNDANT HVAC DIFFUSERS AND GRILLES TO OWNER FOR REUSE. PROVIDE NEW CEILING TRIM AND GRID SYSTEM TO MATCH EXISTING WHERE REQUIRED TO MAKE GOOD EXISTING CEILINGS.	
20.	COORDINATE ALL DEMOLITION WORK WITH ABATEMENT AND HAZARDOUS REMOVALS IDENTIFIED IN ASBESTOS ABATEMENT SPECIFICATION.	D BUILDING SECTION/ EX ELEVATION REFERENCE
21.	CONTRACTOR IS RESPONSIBLE FOR FINAL CLEAN OF AREA.	c 1 A INTERIOR ELEVATION REFERENCE NUMBER



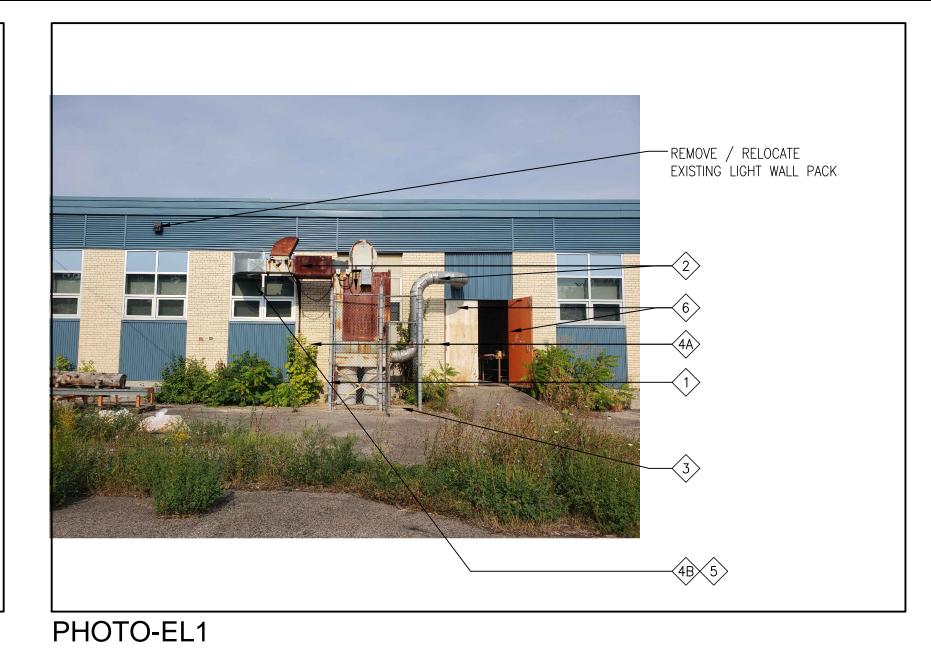
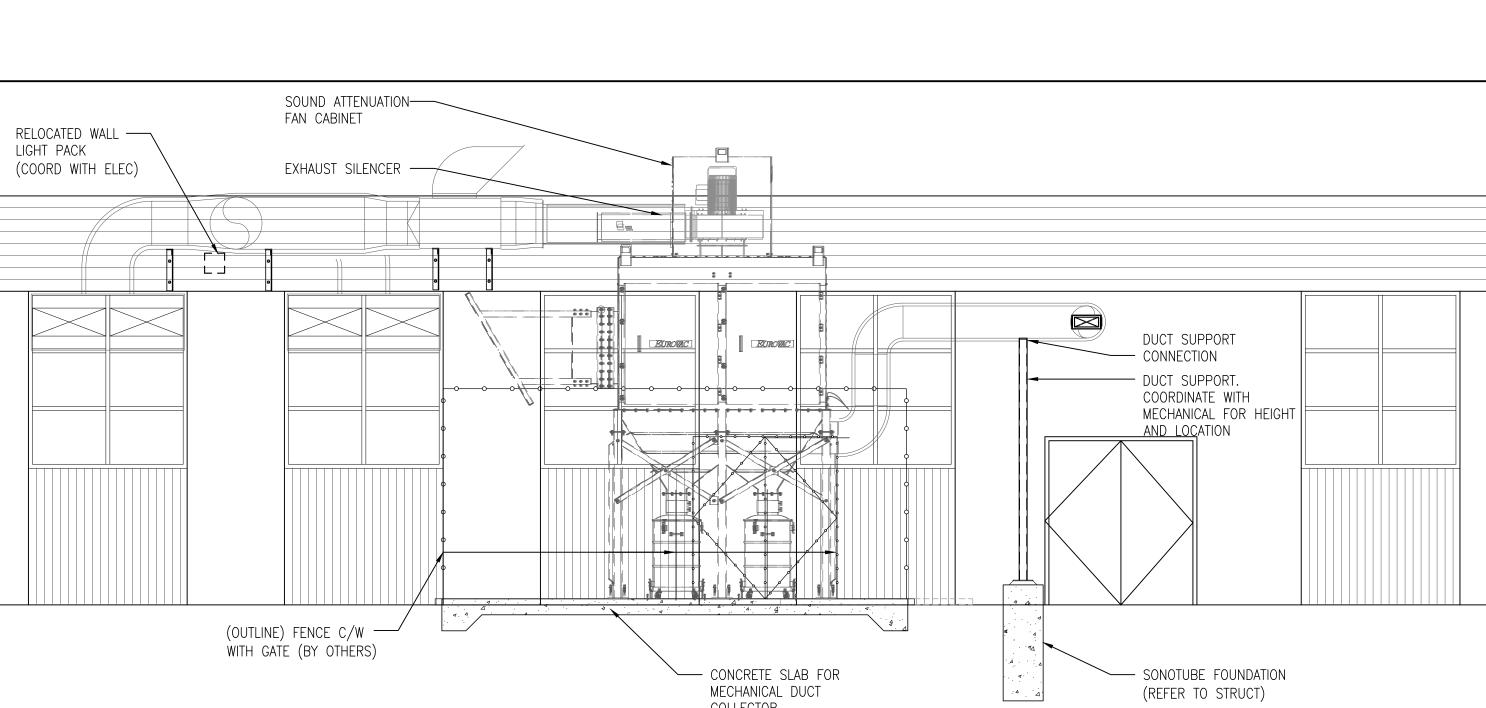


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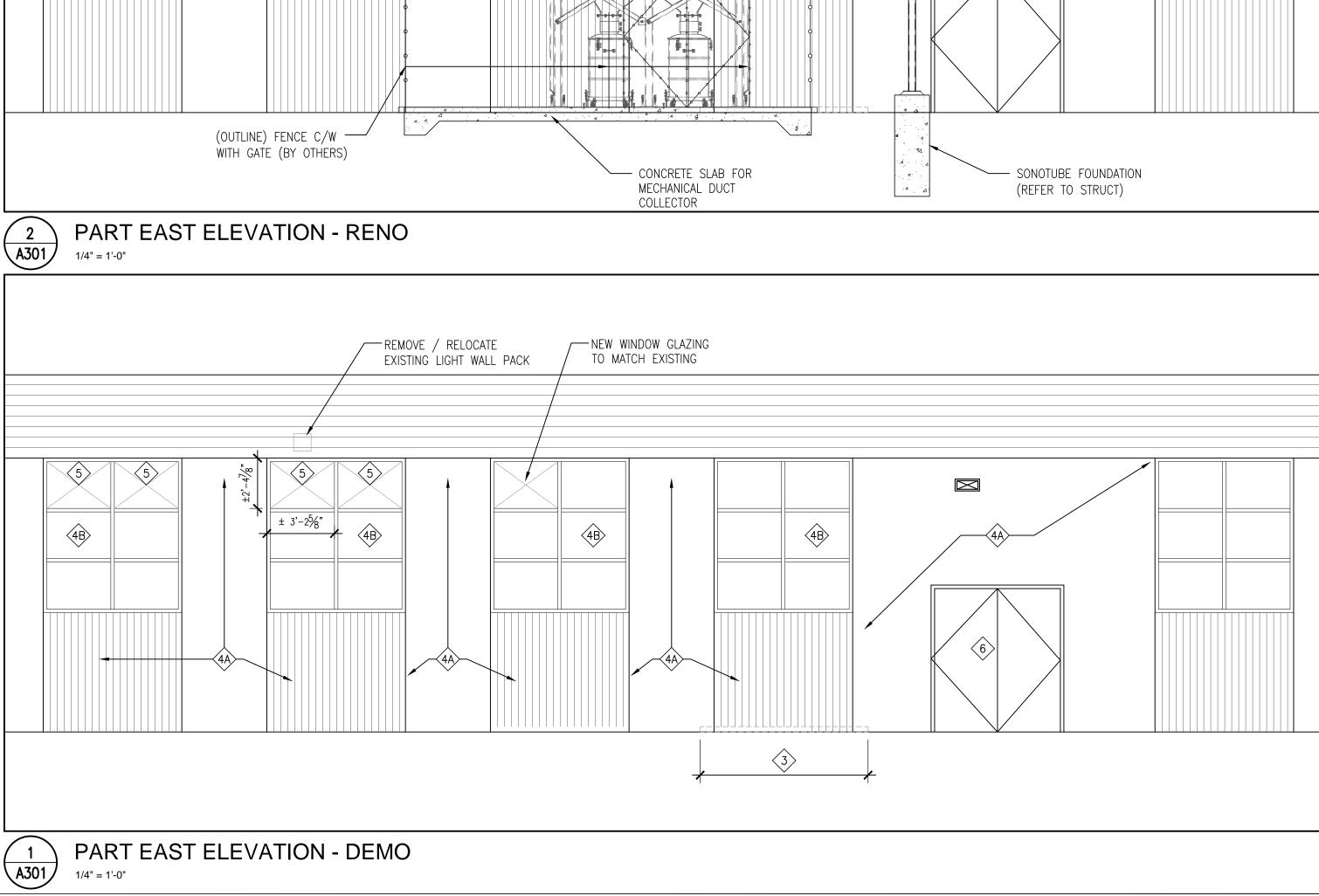
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HWDSB

GENERAL

- 1. ALL MATERIALS AND WORKMANSHIP SHALL CONFORM TO THE REQUIREMENTS OF THE ONTARIO BUILDING CODE, LATEST EDITION AND THE OCCUPATIONAL HEALTH AND SAFETY ACT/REGULATIONS FOR CONSTRUCTION PROJECTS.
- 2. CONFORM TO OWNER'S GENERAL SPECIFICATIONS INCLUDING ALL SAFETY REQUIREMENTS.
- 3. SITE VERIFY ALL DIMENSIONS AND LEVELS.
- 4. KEEP THE SITE THROUGHOUT THE WORK AREA IN A CLEAN AND ORDERLY CONDITION AT ALL TIMES TO THE SATISFACTION OF THE OWNER.
- 5. THE LATEST EDITION OF ALL CODES AND STANDARDS SHALL BE USED.
- 6. ALL STRUCTURAL DRAWINGS ARE TO BE READ IN CONJUNCTION WITH OTHER CONSULTANTS DRAWINGS.

7. CONTRACTOR SHALL REMOVE ALL LOOSE/UNSUITABLE FILL MATERIAL AND DISPOSE TO AN APPROPRIATE LANDFILL AS NECESSARY TO ACCOMMODATE THE NEW PAD AND SUB-BASE PROFILE.

CONCRETE

1. CONCRETE CONSTRUCTION SHALL CONFORM TO THE LATEST EDITION OF CAN/CSA-A23.1 AND CAN/CSA-A23.3 WITH THE FOLLOWING PROVISION:

	LOCATION	DESIGN STRENGTH (28 DAYS)	SLUMP	EXPOSURE CLASS
	EXTERIOR SLAB ON GRADE	32 MPa	80± 30	C1 (HIGH EARLY)
2.	NO ADDITIONAL WATER SHA	ALL BE ADDED AT THE JOE	3 SITE. CONC	RETE WHICH HAS

- BEEN WATERED OR DOES NOT MEET SPECIFICATIONS SHALL BE REJECTED.
- 3. DURING WINTER WEATHER BELOW 5°C PROVIDE TEMPORARY HEATING OF CONCRETE IN ACCORDANCE WITH THE REQUIREMENTS OF CSA A23.1, LATEST EDITION.
- 4. STRUCTURAL GROUT SHALL BE NON-SHRINK, NON-METALLIC M-BED STANDARD PREMIX BY SIKA OR APPROVED EQUAL.

CONCRETE REINFORCEMENT

1. THE CLEAR DISTANCE BETWEEN REINFORCING STEEL AND SURFACE OF CONCRETE SHALL BE AS FOLLOWS UNLESS NOTED OTHERWISE.

LOCATION	CLEAR COVER
SLABS	25mm(1") TOP BARS 25mm(1") BOTTOM BARS
SURFACE IN CONTACT WITH GROUND	75mm(3")

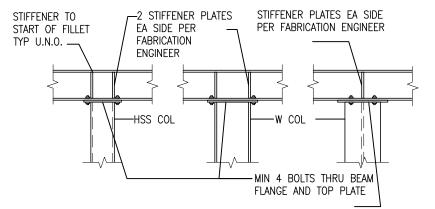
- 2. DETAIL REINFORCING STEEL IN ACCORDANCE WITH "REINFORCING STEEL MANUAL OF STANDARD PRACTICE" LATEST EDITION.
- 3. REINFORCING BAR SPLICES FOR DEFORMED BARS SHALL BE A CLASS 'B' TENSION LAP UNLESS NOTED.
- 4. ALL REINFORCING STEEL SHALL BE DEFORMED HARD GRADE BILLET STEEL CONFORMING TO CSA G30.18 GRADE 400.
- 5. ALL CONCRETE REINFORCEMENT MUST BE PROPERLY CHAIRED WITH APPROVED BAR SUPPORTS.
- 6. PROVIDE CHAIRS, SPACER BARS, SUPPORT BARS AND OTHER ACCESSORIES TO SUPPORT REINFORCING IN ACCORDANCE WITH THE LATEST EDITIONS OF CSA23.1 AND CSA23.3 CHAIRS TO BE PLASTIC, PLASTIC TIPPED OR CONCRETE. ALL TIE WIRE, CHAIRS AND BAR SUPPORTS USED FOR COATED REINFORCING SHALL BE NON-METALLIC OR PROTECTED WITH ACCEPTABLE COATING.
- 7. CHAIRS SHALL BE SPACED AT 1200mm (4'-0") O.C. MAXIMUM.

FLOATING CONCRETE SLAB FOUNDATION

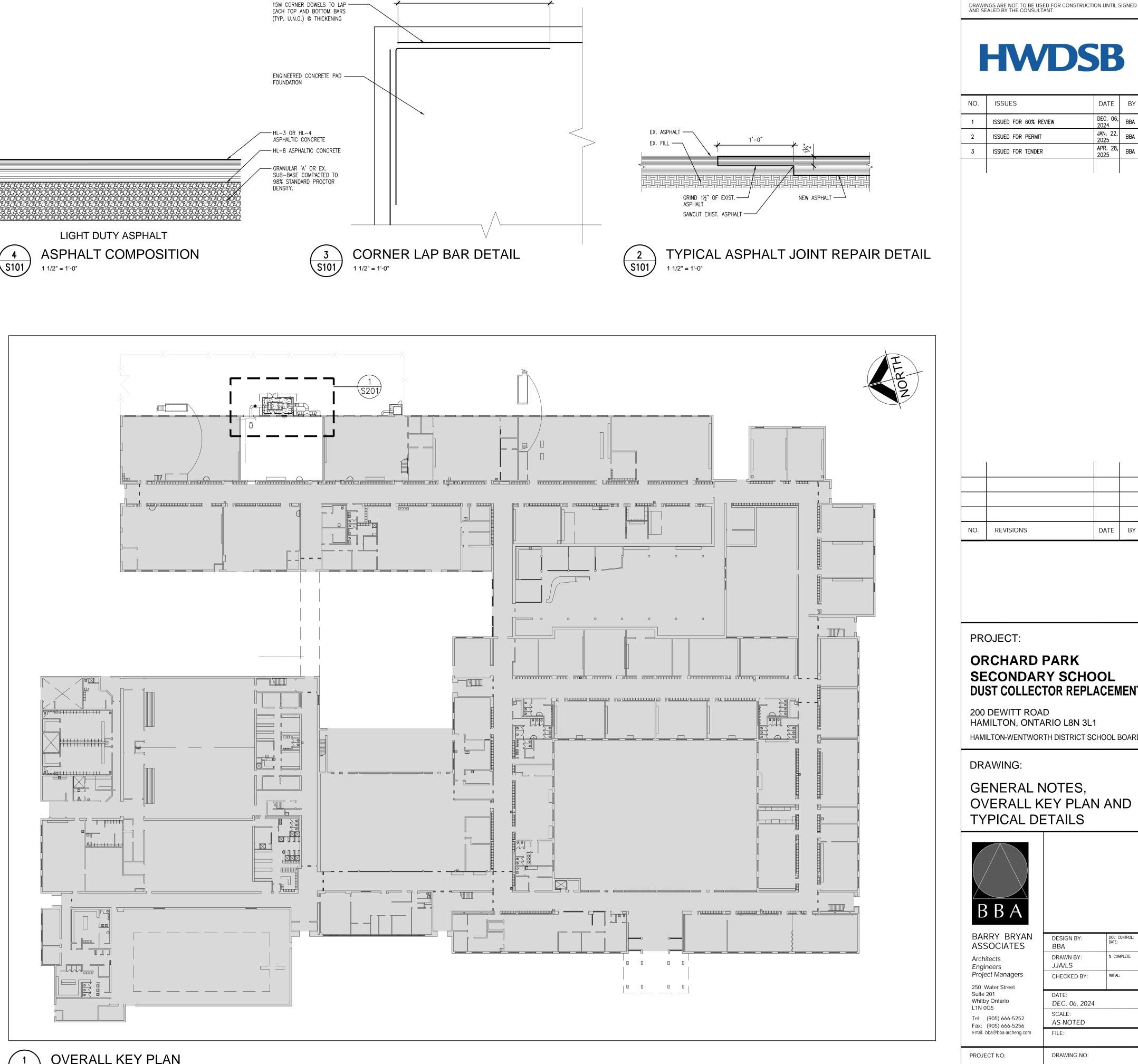
- 1. THE FOUNDATIONS FOR THIS SLAB IS NOT BELOW THE REQUIRED FROST DEPTH FOR THIS GEOGRAPHIC LOCATION. MOVEMENT DUE TO FROST ACTION BELOW THIS SLAB COULD OCCUR. BARRY BRYAN ASSOCIATES ARE NOT CERTIFYING THAT HEAVING AND/OR SETTLEMENT WILL NOT OCCUR. THE OWNER MUST ACCEPT THE POSSIBILITY THAT MOVEMENT AND/OR SERVICE ABILITY CRACKS WILL OCCUR.
- 2. METHODS FOR REDUCING FROST ACTION INCLUDE GOOD SURFACE DRAINAGE AWAY FROM THE SLAB AND THE SUB-GRADE MATERIAL MUST BE FREE DRAINING TO KEEP UNDERLYING SOILS DRY.
- 3. REMOVE ALL EXISTING ASPHALT AND ENGINEERED FILL TO ACCOMMODATE THE NEW CRUSH STONE FILL LAYER. PLACE THE NEW CLEAR CRUSH STONE ON NEW GRANULAR "B" FILL MATERIAL COMPACTED TO 98% SPMDD.
- 4. PROVIDE A WOVEN GEOTEXTILE LAYER BETWEEN THE CLEAR CRUSH STONE AND EXISTING COMPACTED FILL TO REMAIN.
- 5. IT IS RECOMMENDED THAT A GEOTECHNICAL ENGINEER BE CONSULTED TO REVIEW THE EXISTING SUBSURFACE MATERIALS AND CONFIRM METHODS FOR REDUCING RISK ASSOCIATED WITH FROST MOVEMENT. THIS MAY INCLUDE THE ADDITION OF FREE DRAINING MATERIAL SUCH AS CLEAR STONE, INSTALLATION OF SUBDRAIN SYSTEM AND/OR INSULATION TO BE USED AS FROST PROTECTION.

STRUCTURAL STEEL

- 1. ALL STRUCTURAL STEEL HSS AND W SECTIONS TO BE G40.21M-350W CLASS C. ALL OTHERS TO BE G40.21M-300W.
- 2. DESIGN FORCES INDICATED ON DRAWINGS FOR STRUCTURAL STEEL WORK ARE UN-FACTORED FORCES UNLESS NOTED OTHERWISE.
- 3. ALL CONNECTIONS TO BE DESIGNED BY FABRICATOR UNLESS NOTED OTHERWISE. ALL BEAM CONNECTIONS TO BE STANDARD SHEAR CONNECTIONS IN COMPLIANCE WITH CISC, UNLESS NOTED OTHERWISE.
- 4. PROVIDE SHOP DRAWINGS OF COMPONENTS AND CONNECTIONS DESIGNED BY THE FABRICATOR'S ENGINEER. DRAWINGS SHALL BE SIGNED AND SEALED BY THAT ENGINEER.
- 5. FABRICATOR'S ENGINEER MUST BE LICENSED IN THE PROVINCE OF ONTARIO.
- 6. ALL ERECTION BOLTS SHALL BE ASTM GRADE A325 MINIMUM, AND SHALL BE DESIGNED BY STEEL FABRICATOR'S ENGINEER FOR TRANSFER OF ALL LOADS.
- 7. BOLTED CONNECTIONS SHALL HAVE A MINIMUM OF TWO BOLTS IN EACH CONNECTION PIECE AND DESIGNED AS BEARING CONNECTIONS U.N.O.
- 8. UNLESS NOTED OTHERWISE, WHERE BEAMS FRAME OVER COLUMNS, PROVIDE FULL HEIGHT, FULL WIDTH STIFFENER PLATES ON EACH SIDE OVER COLUMN AS SHOWN BELOW:



- 9. FABRICATOR'S ENGINEER SHALL DESIGN TOP PLATES AND THEIR CONNECTIONS TO FULLY TRANSFER VERTICAL AND HORIZONTAL LOADS AS WELL AS MOMENTS WHEN REQUIRED PER CISC STANDARDS.
- 10. FABRICATION, ERECTION AND WORKMANSHIP SHALL CONFORM TO CSA S16.1.
- 11. ALL WELDING SHALL CONFORM TO CSA W59 AND SHALL BE PERFORMED BY A WELDER QUALIFIED UNDER CSA W47.
- 12. REMOVE PAINT FILM FROM ALL STEEL SURFACES TO BE WELDED. SPOT PRIME AS REQUIRED.
- 13. ALL WELDED CONNECTIONS SHALL BE WITH CSA W48 SERIES ELECTRODES.
- 14. PROVIDE DRAINAGE HOLES TO ARCHITECT'S APPROVAL IN ALL EXPOSED EXTERIOR HSS FRAMING.
- 15. PROVIDE CAP PLATES ON ALL HSS FRAMING MEMBERS UNLESS NOTED OTHERWISE.
- 16. DO NOT CUT OR CORE ANY OPENINGS IN ANY STRUCTURAL STEEL MEMBERS WITHOUT PRIOR APPROVAL FROM THE STRUCTURAL ENGINEER.
- 17. WHERE A STRUCTURAL STEEL SHAPE SHOWN ON THE DRAWINGS IS UNAVAILABLE, A SHAPE OF EQUAL OR GREATER SECTION PROPERTIES AND STRUCTURAL CAPACITY SHALL BE SUBSTITUTED, UPON APPROVAL BY OWNER AND CONSULTANT AT NO EXTRA
- 18. ALL EXPOSED STEEL SHALL BE HOT DIP GALVANIZED.



2'-0" MIN.

15M CORNER DOWELS TO LAP -----

OVERALL KEY PLAN

S101 1/32" = 1'-0"

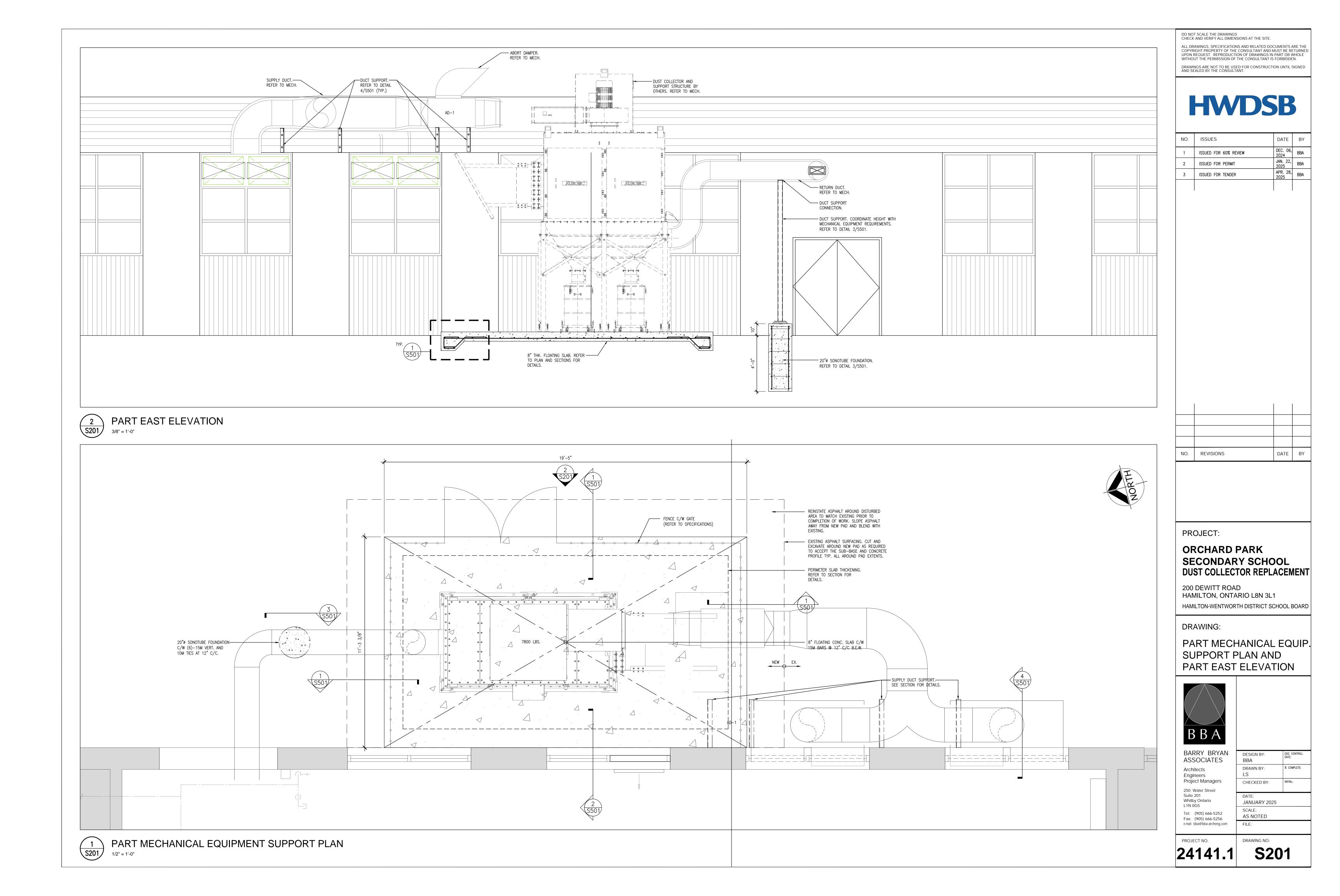
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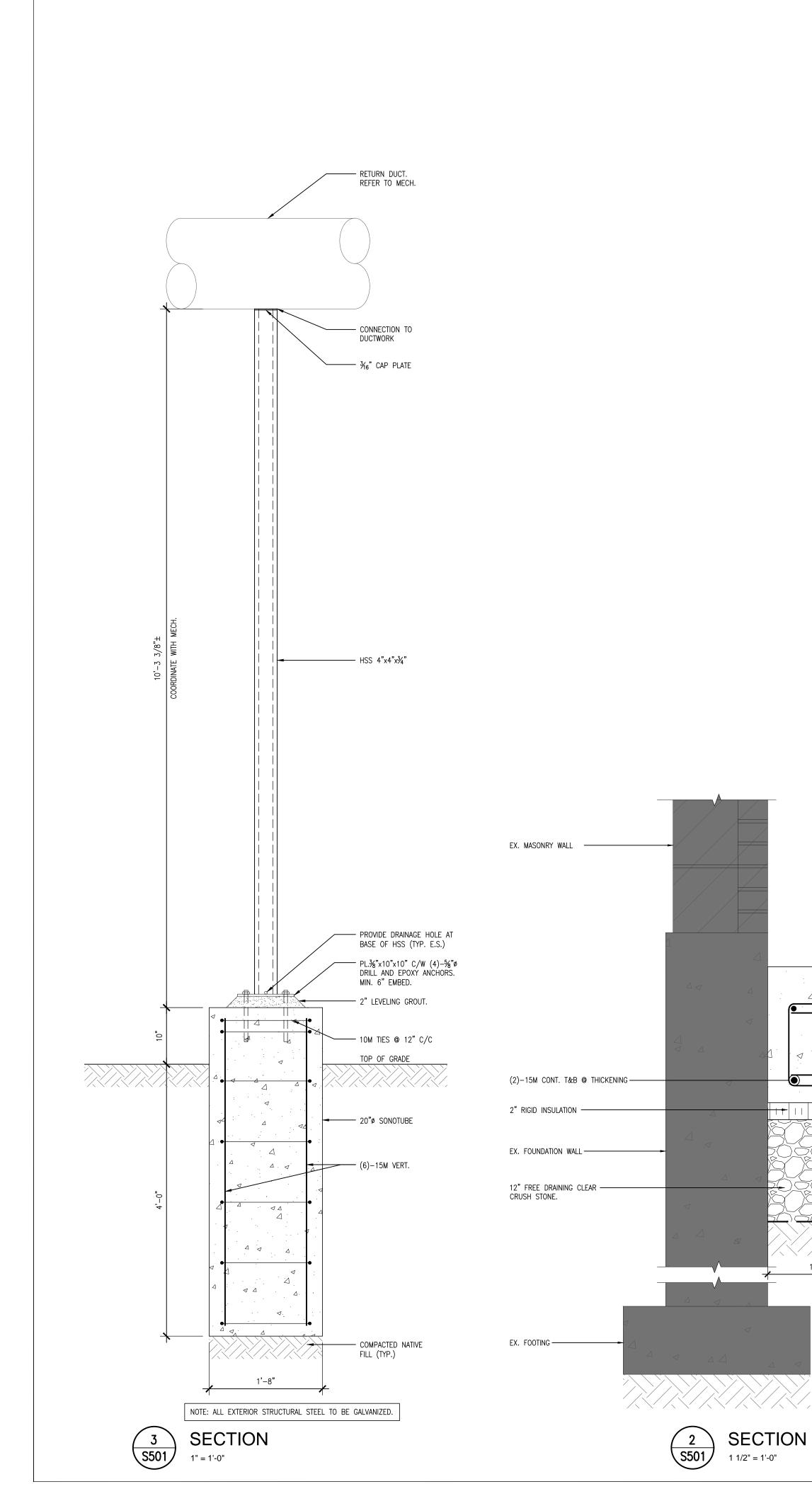
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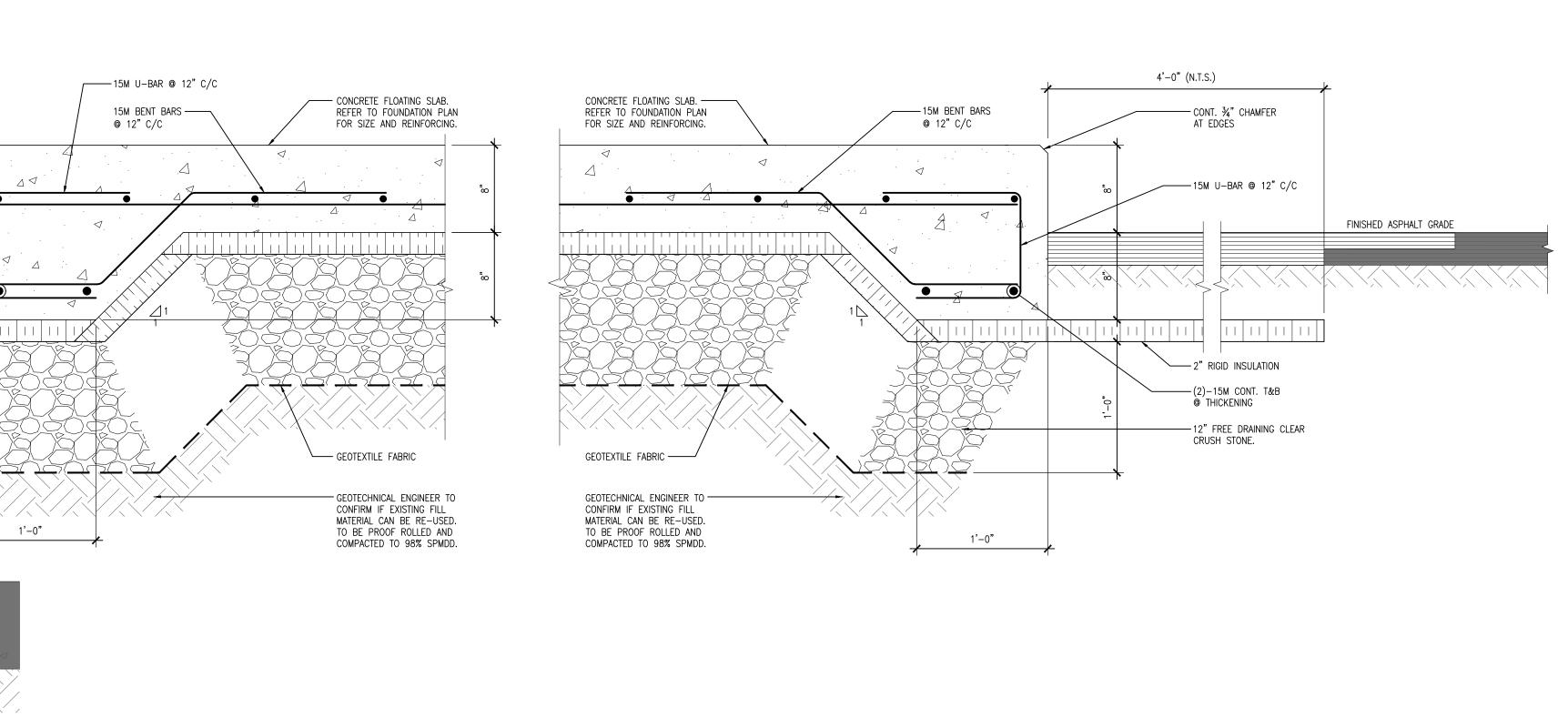
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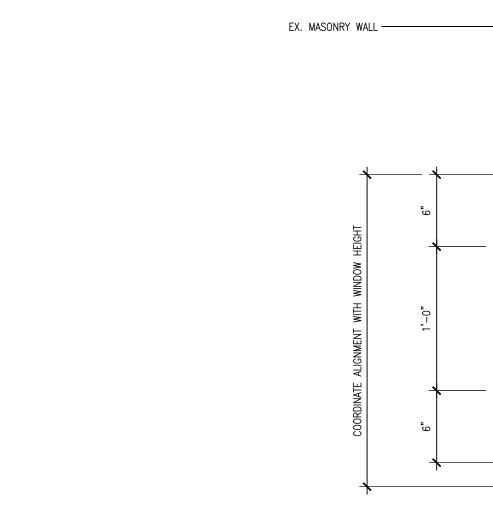
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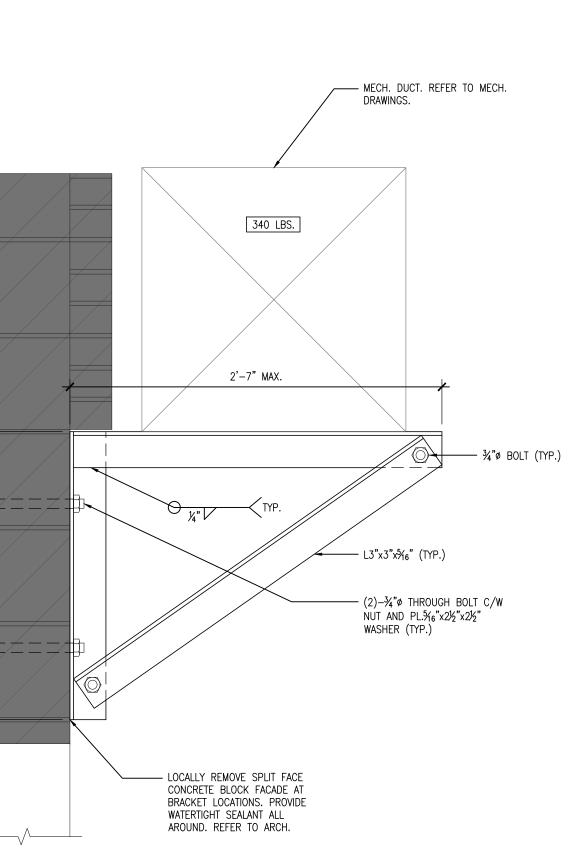






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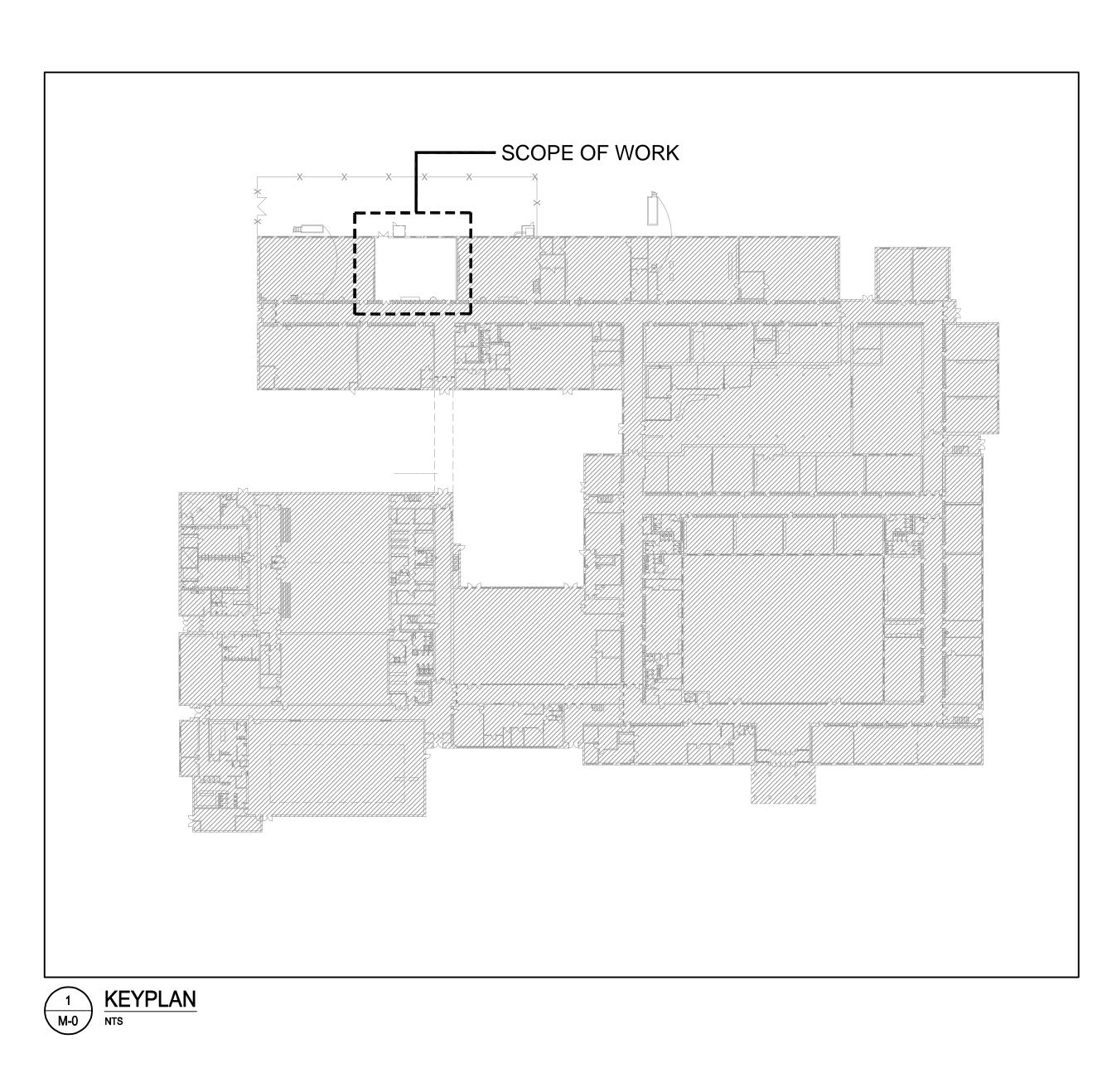
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DUST COLLECTOR REPLACEMENT ORCHARD PARK SECONDARY SCHOOL HAMILTON, ON



MECHANICAL DRAWINGS

	DRAWING LIST				
DWG. NO.	DRAWING NAME				
M-0	TITLE SHEET				
M-1.1	MECHANICAL LEGEND				
M-1.2	MECHANICAL SCHEDULES AND DETAILS				
M-2.1	DUST COLLECTION SYSTEM - DEMOLITION				
M-2.2	DUST COLLECTION SYSTEM - NEW				
M-2.3	DUCT COLLECTION SYSTEM - EAST ELEVATION				

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Giallonardo — Engineering Inc. 220-4550 Highway 7 Woodbridge, ON L4L 4Y7 (905)265-1052 info@giallonardoeng.com www.giallonardoeng.com

This drawing shall be read in conjunction with the architectural, structural, electrical and all other consultant's drawings prior to proceeding with the work. Do not scale

This drawing is the property of GIALLONARDO ENGINEERING INC.

the drawings



	HVAC LEGEND
	EXISTING DUCTWORK/EQUIPMENT
	EXISTING DUCTWORK/EQUIPMENT TO BE REMOVED
	NEW RIGID DUCTWORK
	EXISTING FLEXIBLE DUCTWORK
	NEW FLEXIBLE DUCTWORK
	SUPPLY AIR DUCTWORK UP
\mathbf{X}	SUPPLY AIR DUCTWORK DOWN
	RETURN AIR DUCTWORK UP
	RETURN AIR DUCTWORK DOWN
S/A	'SUPPLY AIR'
R/A	'RETURN AIR'
F/D	'FIRE DAMPER'
L bd	'BALANCING DAMPER'
BDD	'BACKDRAFT DAMPER'
┦м/р	'MOTORIZED DAMPER'
	SQUARE SUPPLY AIR DIFFUSER
	SUPPLY AIR GRILLE
	RETURN AIR GRILLE
	SLOT DIFFUSER
0	THERMOSTAT
0	HUMIDISTAT
©	CARBON DIOXIDE SENSOR
0	CARBON MONOXIDE DETECTOR
©	ZONE SENSOR
<u>\$</u> A−6"ø	WALL SWITCH DIFF TYPE/SIZE
150CFM TYP.	AIR CAPACITY 'TYPICAL'
<u>X-XX</u>	EQUIPMENT TAG
CTE	'CONNECT TO EXISTING'
	FAN-POWERED TERMINAL UNIT
	VAV TERMINAL UNIT
	CABINET EXHAUST FAN
₩∕₩	INLINE EXHAUST FAN
	ELECTRIC DUCT HEATER
Ø	CIRCULAR EXHAUST FAN
	BASEBOARD HEATER
[] →	FORCE FLOW HEATER
	UNIT HEATER
	DUCTWORK WITH ACOUSTIC OR THERMAL INSULATION (SEE SPECS.)
‡ 	DUCTWORK WITH ACOUSTIC INSULATION
}	DUCTWORK WITH THERMAL INSULATION
?	CONTINUATION OF DUCTWORK/PIPING
	EXISTING CONTROL WIRING
	NEW CONTROL WIRING
Щ	SPIN-ON DUCT CONNECTION WITH BALANCING DAMPER
	DRAWING NOTE
	ROUND SUPPLY AIR DIFFUSER
[]	LOUVERED FACE SUPPLY/RETURN GRILLE
	CAP ON DUCTWORK
⊽	BRANCH ON DUCTWORK

	PIPING LEGEND
- EX.HWS	EXISTING HEATING WATER SUPPLY
— EX.HWR — —	EXISTING HEATING WATER RETURN
— HWS ——	HEATING WATER SUPPLY
— HWR — —	HEATING WATER RETURN
-EX.CHWS —	EXISTING CHILLED WATER SUPPLY
-EX.CHWR	EXISTING CHILLED WATER RETURN
— CHWS ——	CHILLED WATER SUPPLY
— CHWR — —	CHILLED WATER RETURN
- EX.CWS	EXISTING CONDENSER WATER SUPPLY
- EX.CWR	EXISTING CONDENSER WATER RETURN
— cws——	CONDENSER WATER SUPPLY
— CWR— —	CONDENSER WATER RETURN
- REFL	REFRIGERANT LIQUID LINE
— REFS — —	REFRIGERANT SUCTION LINE
	3-PORT CONTROL VALVE
X	2-WAY CONTROL VALVE
X X	GATE VALVE
X Z	GLOBE VALVE
	CHECK VALVE
	CIRCUIT BALANCING VALVE
X	BALL VALVE
<u>∑</u>	SAFETY RELIEF VALVE
₹ T	SAFETT RELIEF VALVE
·>' +	UNION
	CONCENTRIC REDUCER
4 4	ECCENTRIC REDUCER
 N.O.	'NORMALLY OPEN'
N.C.	'NORMALLY CLOSED'
ν.c. φ	PRESSURE GAUGE
	THERMOMETER
	AQUASTAT
Y PRV	
	PRESSURE REDUCING VALVE VACUUM BREAKER
VB	BACKFLOW PREVENTER
FS Ø	FLOW SWITCH
	AUTOMATIC AIR VENT
LWCO	LOW WATER CUT-OFF
Lwco ₹	PLUG/COCK VALVE
▼ Z	BUTTERFLY VALVE
¥ 	TEST PORT
	CAP ON PIPING
⑦ 	
	ISOLATION VALVE
HB +	HOSE BIBB

PIPING LEGEND

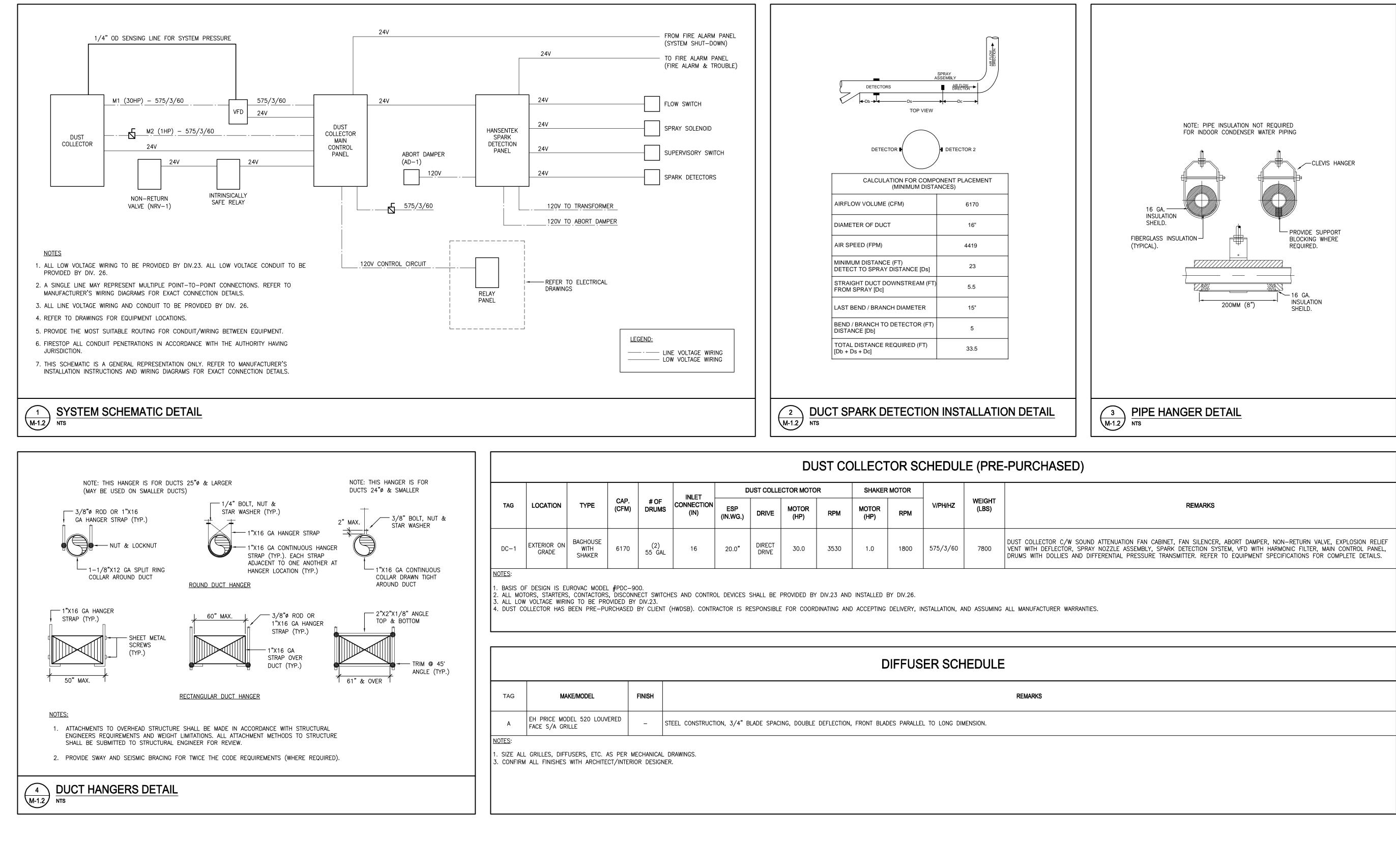
PLUMBING LEGEND

EX.SAN	EXISTING ABOVE GROUND SANITARY DRAINAGE PIPING
— — EX.SAN — —	EXISTING UNDERGROUND SANITARY DRAINAGE PIPING
SAN	ABOVE GROUND SANITARY DRAINAGE PIPING
— — SAN — —	UNDERGROUND SANITARY DRAINAGE PIPING
— EX.STM —	EXISTING ABOVE GROUND STORM DRAINAGE PIPING
— — EX.STM — —	EXISTING UNDERGROUND STORM DRAINAGE PIPING
STM	ABOVE GROUND STORM DRAINAGE PIPING
— — STM — —	UNDERGROUND STORM DRAINAGE PIPING
—— EX.V ——	EXISTING ABOVE GROUND VENT PIPING
EX.V	EXISTING UNDERGROUND VENT PIPING
V	ABOVE GROUND VENT PIPING
V	UNDERGROUND VENT PIPING
—— EX.CD ——	EXISTING CONDENSATE DRAINAGE PIPING
CD	CONDENSATE DRAINAGE PIPING
	EXISTING DOMESTIC COLD WATER PIPING
	DOMESTIC COLD WATER PIPING
	EXISTING DOMESTIC HOT WATER PIPING
	DOMESTIC HOT WATER PIPING
	EXISTING DOMESTIC HOT WATER RETURN PIPING
	DOMESTIC HOT WATER RETURN PIPING
—— EX.G ——	EXISTING GAS PIPING
G	LOW PRESSURE GAS PIPING
HPG	HIGH PRESSURE GAS PIPING
	EXISTING PIPING/EQUIPMENT TO BE REMOVED
SSSS	HEAT TRACING ON PIPE
	CONTINUATION OF DUCTWORK/PIPING
Ŧ	GAS COCK VALVE
FD 🖨 FFD	FLOOR DRAIN/FUNNEL FLOOR DRAIN
HD O	HUB DRAIN
AD 🖸	AREA DRAIN
RD 🖶	ROOF DRAIN
СВ	CATCH BASIN
CO a —	BURIED CLEANOUT
CO II	EXPOSED CLEANOUT
്	SANITARY 'P' TRAP
	PIPE UP
ہ ے	PIPE DOWN
VTR	VENT THROUGH ROOF
САР п	CAP ON PIPING
$\langle 7 \rangle$	DRAWING NOTE
×	ISOLATION VALVE
0	PIPING DROPDOWN
M	WATER METER

FIRE PROTECTION LEGEND

0	UPRIGHT SPRINKLER HEAD
θ	PENDENT SPRINKLER HEAD
Ð	RECESSED PENDENT SPRINKLER HEAD
Θ	CONCEALED SPRINKLER HEAD
Δ	SIDEWALL SPRINKLER HEAD
FE	FIRE EXTINGUISHER
FHC	FIRE HOSE CABINET
(7)	DRAWING NOTE

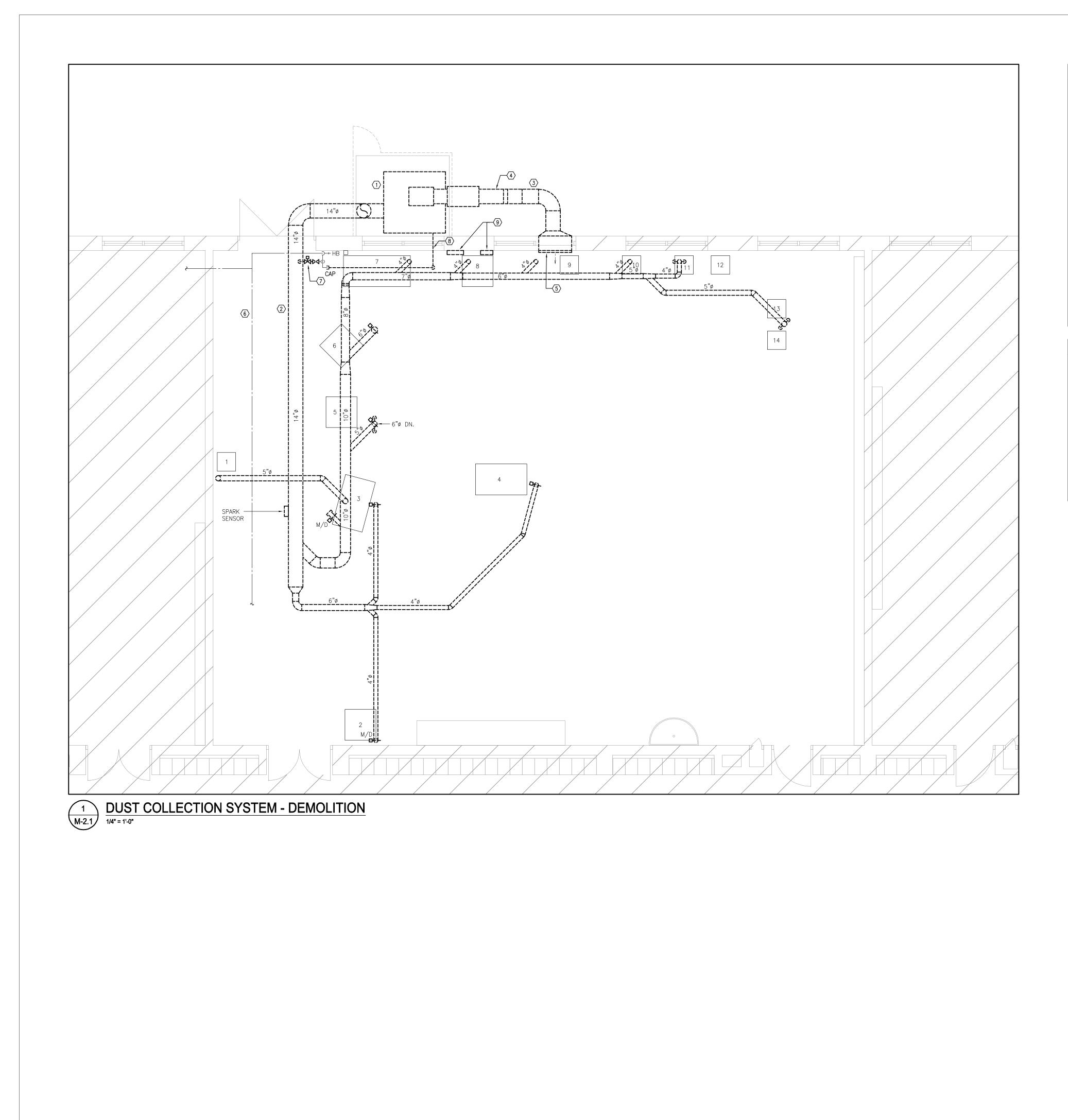
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			INLET	DI	UST COLLE	CTOR MOTO	R	SHAKER	MOTOR			
LOCATION	TYPE CAP. (CFM)	# OF DRUMS	CONNECTION (IN)	ESP (IN.WG.)	DRIVE	Motor (HP)	RPM	Motor (HP)	RPM	V/PH/HZ	WEIGHT (LBS)	
EXTERIOR ON GRADE	BAGHOUSE WITH 6170 SHAKER	(2) 55 GAL	16	20.0"	DIRECT DRIVE	30.0	3530	1.0	1800	575/3/60	7800	DUST COLLECTOR C/W SOUND ATTENUATION VENT WITH DEFLECTOR, SPRAY NOZZLE AS DRUMS WITH DOLLIES AND DIFFERENTIAL F
GRADE		55 GAL		20.0	DRIVE	00.0		1.0				

ΓAG	MAKE/MODEL	FINISH		REMARKS
	EH PRICE MODEL 520 LOUVERED FACE S/A GRILLE	-	STEEL CONSTRUCTION, 3/4" BLADE SPACING, DOUBLE DEFLECTION, FRONT BLADES PARALLEL TO LONG DIMENSION.	

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BARRY BRYAN ASSOCIATES Architects Engineers Project Managers 250 Water Street Suite 201 Whitby Ontario L1N 0G5 Tel: (905) 666-5252 Fax: (905) 666-5256 ermail: bba@bba-archeng.com PROJECT NO: DRAWING NO:	OF SE DU 200 HAN HAMI DR	RCHARD CONDAR ST COLLEC DEWITT ROA AILTON, ONTA ILTON WENTWOR AWING: CHANICA	ARIO L8N 3L TH DISTRICT SC AL SCHE		BOARD
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	Fax: e-mail: t PROJE	(905) 666-5256 bba@bba-archeng.com	AS SHOWN FILE: DRAWING NO:	1.2	



	MECHANICAL DRAWING NOTES
	EXISTING DUST COLLECTOR AND ALL ASSOCIATED CONTROL: SUPPORTS, ETC. TO BE REMOVED AND DISPOSED OF.
2	EXISTING EXHAUST DUCTWORK AND ALL ASSOCIATED HANGERS, SUPPORTS, DROPS, ETC. TO BE REMOVED AND DISPOSED OF. RETAIN ALL EQUIPMENT FLEX CONNECTIONS FOR REINSTALLATION (TYPICAL).
3	EXISTING SUPPLY DUCTWORK AND ALL ASSOCIATED HANGERS, SUPPORTS, ETC. TO BE REMOVED AND DISPOSE OF.
4	EXISTING ABORT DAMPER AND ALL ASSOCIATED CONTROLS TO BE REMOVED AND DISPOSED OF.
5	EXISTING SUPPLY DIFFUSER TO BE REMOVED AND DISPOSE OF. REFER TO ARCHITECTURAL DRAWINGS FOR REINSTATEMENT OF WINDOW OPENING.
6	EXISTING DCW PIPING AT HIGH LEVEL TO REMAIN.
7	EXISTING SPRAY NOZZLE, SOLENOID VALVE, STRAINER AND SUPERVISED VALVE TO BE REMOVED AND DISPOSED OF. CUT DCW PIPING BACK TO WHERE SHOWN AND PREPARE FOR NEW CONNECTION.
8	EXISTING DCW PIPING SERVING DUST COLLECTOR TO BE REMOVED BACK TO INTERIOR OF BUILDING. CAP WHERE SHOWN.
9	EXISTING MAIN CONTROL PANEL, SPARK DETECTION PANEL AND ALL ASSOCIATED CONTROLS, WIRING, CONDUIT, ETC. T BE REMOVED AND DISPOSED OF.
	GENERAL NOTES
1.	THE MECHANICAL DRAWINGS DISPLAY A GENERAL DESIGN AND INSTALLATION. THEREFORE, IF REQUIRED, THE CONTRACTOR SHALL OBTAIN CLARIFICATION FROM THE CONSULTANT PRIOR TO INSTALLATION.
n	

AND ARCHITECTURAL ELEMENTS. REFER TO OTHER DIVISION'S DRAWINGS FOR CLARIFICATION. 3. THIS CONTRACTOR SHALL VISIT THE SITE AND COMPLETELY INVESTIGATE AND UNDERSTAND THE EXISTING CONDITIONS AND THEIR RELATION TO THE DESIGN DRAWINGS/DOCUMENTS. NO CONSIDERATION WILL BE GIVEN TO THE CONTRACTOR FOR ANY HINDRANCES TO THE MECHANICAL INSTALLATION FROM SITE CONDITIONS WHICH EXISTED PRIOR TO TENDER SUBMISSION. AS SUCH AND WHERE REQUIRED, THE

- CONTROLS, OF.
- VED AND NECTIONS
- DISPOSED
- ONTROLS
- DISPOSED
- INER AND SED OF. PREPARE
- TO BE WHERE
- N PANEL IT, ETC. TO
- DESIGN THE
- 2. THESE DRAWINGS HAVE BEEN PREPARED FOR DIV.23 AND DO NOT ACCURATELY DISPLAY ALL ELECTRICAL, STRUCTURAL
- CONTRACTOR SHALL PROVIDE INTERFERENCE DRAWINGS AND SHALL SUBMIT THEM TO THE CONSULTANT FOR REVIEW.



This drawing is the property of GIALLONARDO ENGINEERING INC.

This drawing shall be read in conjunction with the architectural, structural, electrical and all other consultant's drawings prior to proceeding with the work. Do not scale the drawings.

The contractor is to verify and accept responsibility for all dimensions and conditions on site and must notify GIALLONARDO ENGINEERING INC. of any variations from the drawings.

4 ISSUED FOR TENDER

NO. REVISIONS

PROJECT:

ORCHARD PARK

200 DEWITT ROAD

DRAWING:

ΒB

BARRY BRYAN ASSOCIATES

Architects Engineers Project Managers

250 Water Street Suite 201 Whitby Ontario L1N 0G5

PROJECT NO:

Tel: (905) 666-5252 Fax: (905) 666-5256 e-mail: bba@bba-archeng.com

24154A

SECONDARY SCHOOL

HAMILTON, ONTARIO L8N 3L1

DUST COLLECTION

SYSTEM - DEMOLITION

2025-04-17 R.GIALLONARDO -100152400

DOC CONTROL: DATE:

% COMPLETE:

INITIAL:

DESIGN BY: **SW**

DRAWN BY: RC

CHECKED BY:

DATE: SEPTEMBER 2024

JH

SCALE:

FILE:

AS SHOWN

DRAWING NO:

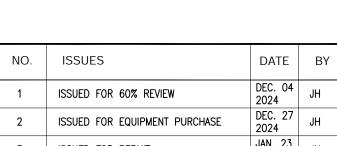
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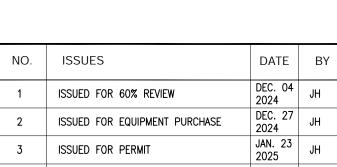
DUST COLLECTOR REPLACEMENT

HAMILTON WENTWORTH DISTRICT SCHOOL BOARD





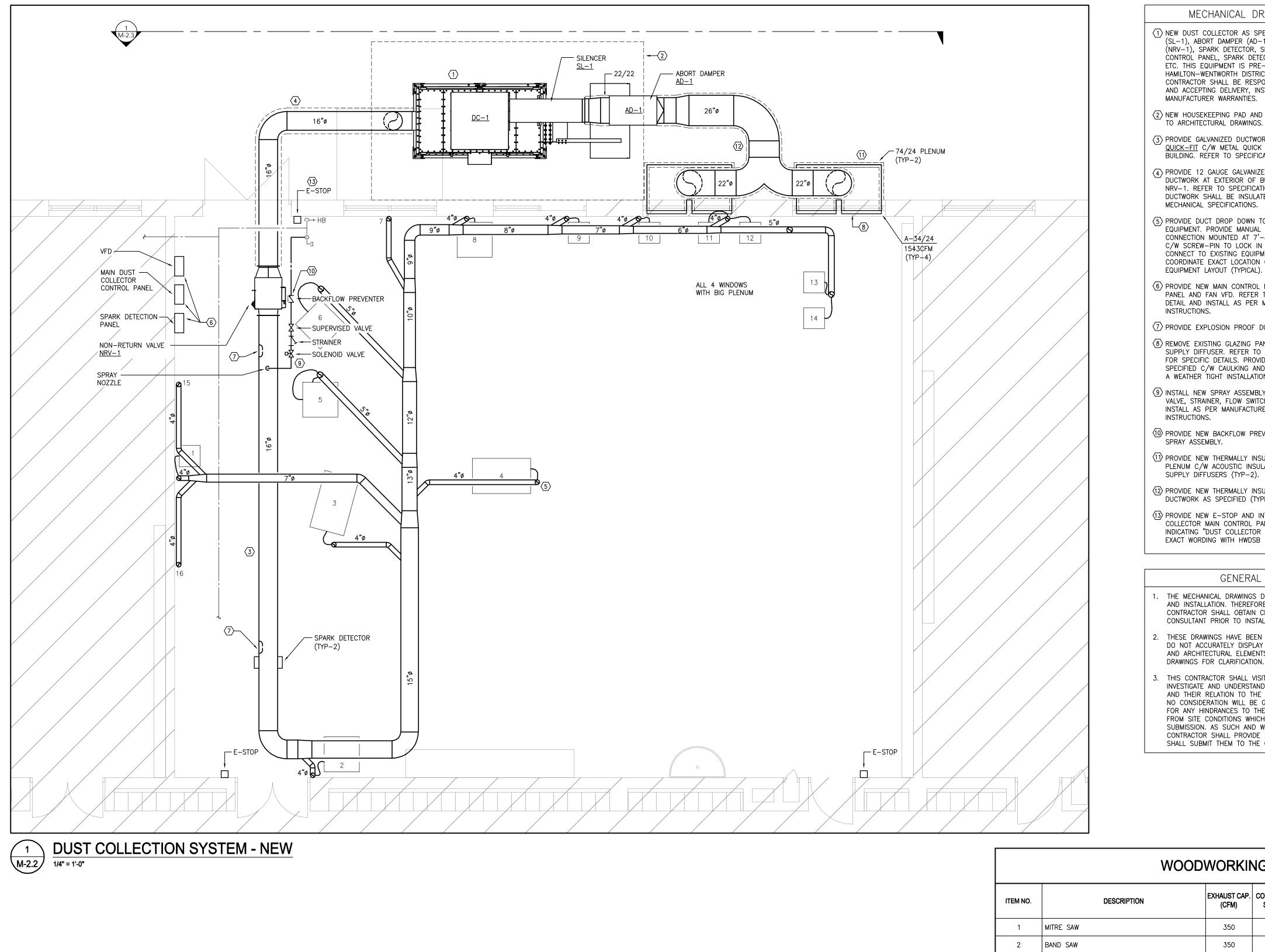




APR. 17 2025 SW

DATE BY





WOODWORKIN

ITEM NO.	DESCRIPTION	EXHAUST CAP. (CFM)	C
1	MITRE SAW	350	
2	BAND SAW	350	
3	JOINTER	390	
4	TABLE SAW	390	
5	BELT/DISC SANDER	700	
6	PLANER	820	
7	SPARE	350	
8	BAND SAW	350	
9	SPINDLE SANDER	350	
10	MITRE SAW	350	
11	SCROLL SAW	220	
12	SCROLL SAW	220	
13	ROUTER	275	
14	ROUTER	275	
15	SPARE	390	
16	SPARE	390	

MECHANICAL DRAWING NOTES

 $\langle 1 \rangle$ NEW DUST COLLECTOR AS SPECIFIED C/W SILENCER (SL-1), ABORT DAMPER (AD-1), NON-RETURN VALVE (NRV-1), SPARK DETECTOR, SPRAY ASSEMBLY, MAIN CONTROL PANEL, SPARK DETECTION CONTROL PANEL, VFD, ETC. THIS EQUIPMENT IS PRE-PURCHASED BY HAMILTON-WENTWORTH DISTRICT SCHOOL BOARD.

CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING AND ACCEPTING DELIVERY, INSTALLATION AND ASSUMING ALL

(2) NEW HOUSEKEEPING PAD AND FENCED ENCLOSURE, REFER TO ARCHITECTURAL DRAWINGS.

(3) PROVIDE GALVANIZED DUCTWORK EQUAL TO NORDFAB QUICK-FIT C/W METAL QUICK FIT CLAMPS AT INTERIOR OF BUILDING. REFER TO SPECIFICATIONS.

 $\langle \overline{4} \rangle$ PROVIDE 12 GAUGE GALVANIZED WELDED AND FLANGED DUCTWORK AT EXTERIOR OF BUILDING BETWEEN DC-1 AND NRV-1. REFER TO SPECIFICATIONS. ALL EXTERIOR DUCTWORK SHALL BE INSULATED AND JACKETED AS PER

 $\langle 5 \rangle$ PROVIDE DUCT DROP DOWN TO EXISTING WOODWORKING EQUIPMENT. PROVIDE MANUAL SLIDE GATE AT FLEX CONNECTION MOUNTED AT 7'-8" AFF. SLIDE GATE SHALL BE C/W SCREW-PIN TO LOCK IN PLACE AFTER BALANCING. CONNECT TO EXISTING EQUIPMENT FLEXIBLE DUCTWORK. COORDINATE EXACT LOCATION OF DUCT DROP WITH

 $\langle 6 \rangle$ provide New Main Control Panel, spark detection PANEL AND FAN VFD. REFER TO WIRING SYSTEM SCHEMATIC DETAIL AND INSTALL AS PER MANUFACTURER'S INSTALLATION

 $\langle \overline{2} \rangle$ provide explosion proof duct access door.

 $\langle 8 \rangle$ REMOVE EXISTING GLAZING PANEL FOR INSTALLATION OF SUPPLY DIFFUSER. REFER TO ARCHITECTURAL DRAWINGS FOR SPECIFIC DETAILS. PROVIDE NEW SUPPLY DIFFUSER AS SPECIFIED C/W CAULKING AND SEALING AS REQUIRED FOR A WEATHER TIGHT INSTALLATION (TYP-2).

 $\langle 9 \rangle$ INSTALL NEW SPRAY ASSEMBLY INCLUDING SUPERVISED VALVE, STRAINER, FLOW SWITCH AND SOLENOID VALVE. INSTALL AS PER MANUFACTURER'S INSTALLATION

(10) PROVIDE NEW BACKFLOW PREVENTER UPSTREAM OF NEW

(1) PROVIDE NEW THERMALLY INSULATED AND JACKETED S/A PLENUM C/W ACOUSTIC INSULATION CONNECTED TO NEW

(12) PROVIDE NEW THERMALLY INSULATED AND JACKETED S/A DUCTWORK AS SPECIFIED (TYPICAL).

 $\langle \overline{13} \rangle$ provide New E-STOP and interlock with New DUST COLLECTOR MAIN CONTROL PANEL. PROVIDE A LABEL INDICATING "DUST COLLECTOR EMERGENCY STOP". CONFIRM EXACT WORDING WITH HWDSB (TYP-3).

GENERAL NOTES

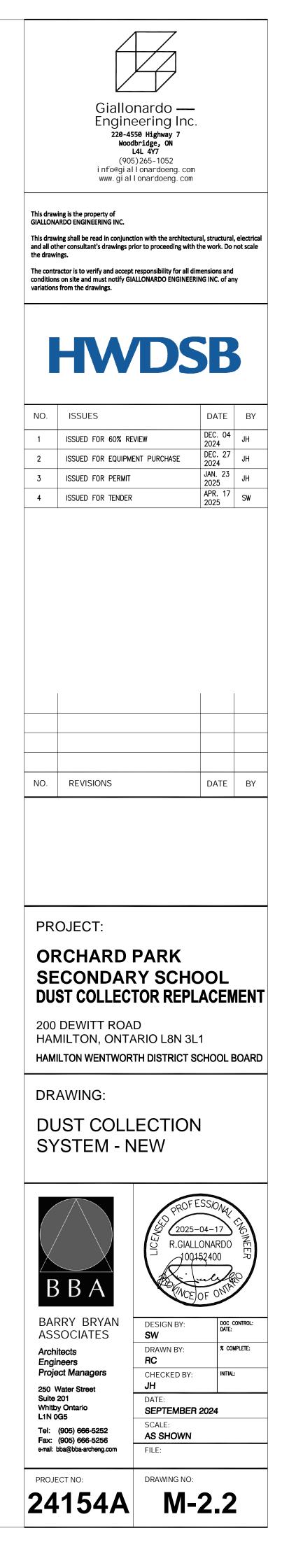
1. THE MECHANICAL DRAWINGS DISPLAY A GENERAL DESIGN AND INSTALLATION. THEREFORE, IF REQUIRED, THE CONTRACTOR SHALL OBTAIN CLARIFICATION FROM THE CONSULTANT PRIOR TO INSTALLATION.

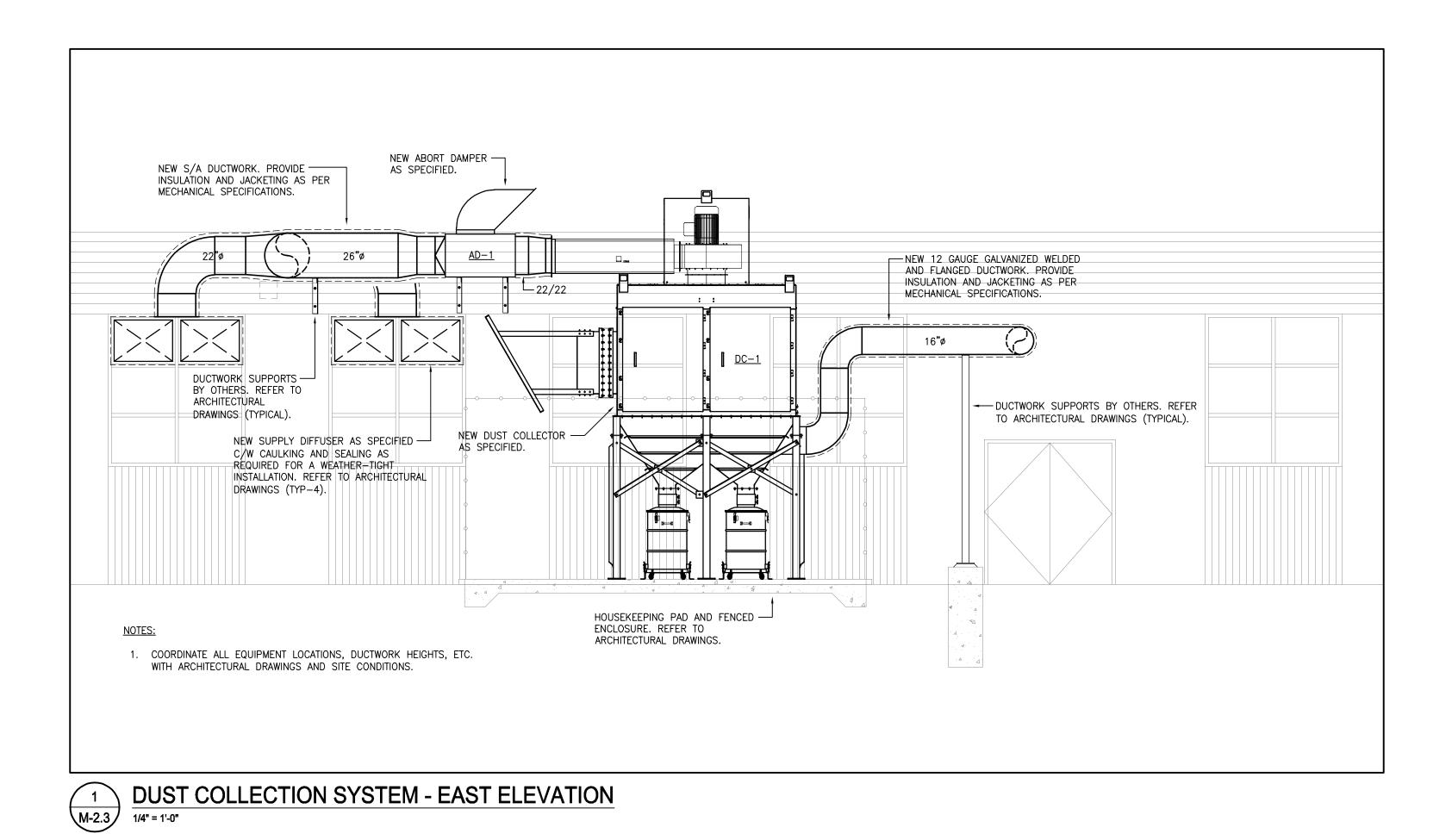
2. THESE DRAWINGS HAVE BEEN PREPARED FOR DIV.23 AND DO NOT ACCURATELY DISPLAY ALL ELECTRICAL, STRUCTURAL AND ARCHITECTURAL ELEMENTS. REFER TO OTHER DIVISION'S DRAWINGS FOR CLARIFICATION.

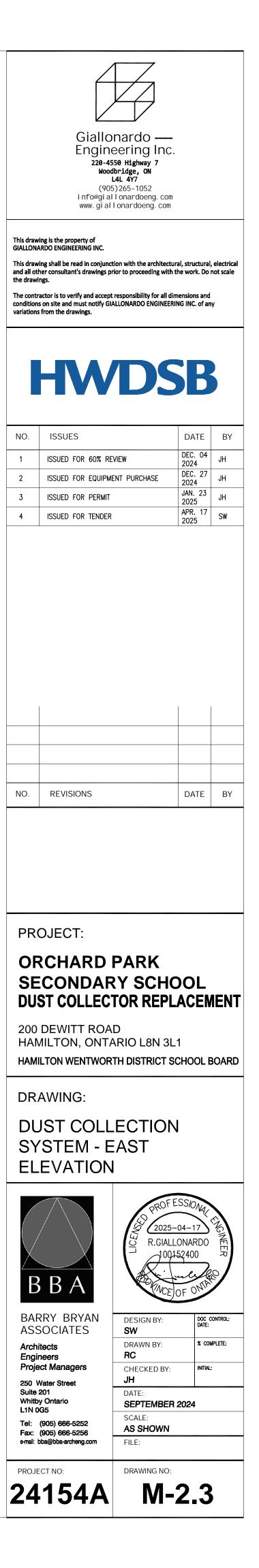
5. THIS CONTRACTOR SHALL VISIT THE SITE AND COMPLETELY INVESTIGATE AND UNDERSTAND THE EXISTING CONDITIONS AND THEIR RELATION TO THE DESIGN DRAWINGS/DOCUMENTS. NO CONSIDERATION WILL BE GIVEN TO THE CONTRACTOR FOR ANY HINDRANCES TO THE MECHANICAL INSTALLATION FROM SITE CONDITIONS WHICH EXISTED PRIOR TO TENDER SUBMISSION. AS SUCH AND WHERE REQUIRED, THE CONTRACTOR SHALL PROVIDE INTERFERENCE DRAWINGS AND

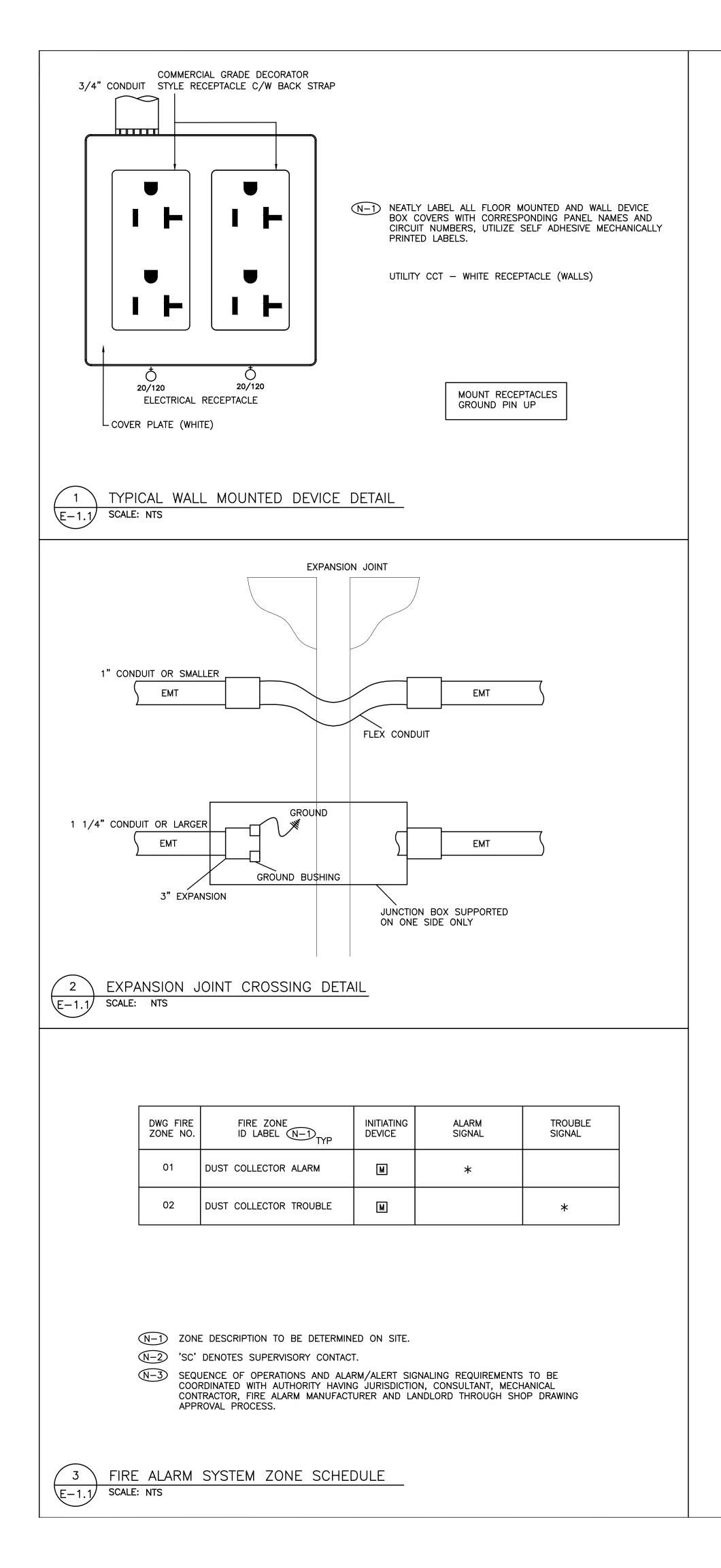
SHALL SUBMIT THEM TO THE CONSULTANT FOR REVIEW.

NG EQUIPMENT SCHEDULE CONNECTION REMARKS SIZE (IN) 3" 3" 4" 4" 2X3" TWO SEPARATE CONNECTIONS TO SANDER 6" CAPPED DUCT FOR FUTURE EQUIPMENT CONNECTION 3" 3" 3" 4" 3" 3" 3" 3" 4" CAPPED DUCT FOR FUTURE EQUIPMENT CONNECTION 4" CAPPED DUCT FOR FUTURE EQUIPMENT CONNECTION









	LEGEND
	AREA/SITE LUMINAIRE. CONNECT TO UTILITY LIGHTING CIRCUIT.
\bigoplus^{GFI}	15AMP/120VOLT, U–GROUND DUPLEX RECEPTACLE. GFI DENOTES OUTLET C/W GROUND FAULT INTERRUPT PROTECTION.
Q	RECEPTACLE, REQUIREMENT AS NOTED.
Q _{20/120}	20A/120V DUPLEX RECEPTACLE, CSA 5–20R (T–SLOT). HUBBELL DR20 SERIES.
Е	INDICATES EXISTING DEVICE TO REMAIN.
ER	INDICATES EXISTING DEVICE TO BE REMOVED. REMOVE CONDUIT AND WIRE BACK TO SOURCE.
R	DENOTES EXISTING DEVICE IN RELOCATED POSITION. PROVIDE CONDUIT AND WIRE BACK TO SOURCE.
RE	DENOTES EXISTING DEVICE TO REMAIN. RECIRCUIT AS SHOWN. REMOVE EXISTING CONDUIT AND WIRE BACK TO EXISTING SOURCE. PROVIDE CONDUIT AND WIRE BACK TO NEW SOURCE.
WP	DENOTES NEMA TYPE 4X ENCLOSURE SUITABLE FOR HOSE DIRECTED WATER
\bigcirc	DIRECT CONNECTION.
Ъ	NON-FUSED HORSEPOWER RATED VISIBLE BLADE HEAVY DUTY DISCONNECT SWITCH C/W PADLOCK PROVISION IN OFF POSITION.
F 30/15A/3P	VISIBLE BLADE HEAVY DUTY DISCONNECT SWITCH C/W PADLOCK PROVISION IN OFF POSITION FUSED AT '15A'
C _{FA}	CONTROL ZONE MODULE. CONNECT TO BASE BUILDING FIRE ALARM SYSTEM.
	ISOLATION MODULE. CONNECT TO BASE BUILDING FIRE ALARM SYSTEM.
М	INITIATING DEVICE INTERFACE ZONE MODULE. CONNECT TO BASE BUILDING FIRE ALARM SYSTEM.
⊣⊢ ®	RELAY / COIL

- SUBSTITUTES ARE NOT PERMITTED FOR ALL SPECIFIED PRODUCTS. SHOP DRAWINGS ARE REQUIRED FOR ALL PRODUCTS SPECIFIED
- 2. FOR THIS PROJECT INCLUDING BUT NOT LIMITED TO AC DISTRIBUTION EQUIPMENT, RECEPTACLE PANELS, FIRE ALARM SYSTEMS, LIGHTING FIXTURES, LAMACOIDS AND GROUNDING SYSTEM MATERIALS.
- ELECTRICAL CONTRACTOR AND ALL SUBCONTRACTORS MUST READ AND COMPLY WITH ELECTRICAL SPECIFICATIONS (ISSUED AS A SEPARATE DOCUMENT).
- CIRCUITING MUST BE COMPLETED AS SHOWN ON DRAWINGS. DO NOT CHANGE CIRCUIT NUMBERS.
- INSTALLATION AND MANUFACTURING OF ALL DEVICES AND SERVICES 5. INCLUDING DISTRIBUTION, LIGHT FIXTURES, FEEDERS, BRANCH CIRCUITS, VARIOUS SYSTEMS, ETC., MUST COMPLY WITH ALL LOCAL SEISMIC RESTRAINT REQUIREMENTS.
- THESE DRAWINGS SHALL BE READ IN CONJUNCTION WITH THE 6. ARCHITECTURAL DRAWINGS FOR DIMENSIONS, MOUNTING HEIGHTS, CONSTRUCTION DETAILS, LOCATION OF LIGHT FIXTURES, FINISHES AND COLOURS.
- AS PART OF THIS SCOPE OF WORK AND PRIOR TO CONSTRUCTION, 7. ELECTRICAL CONTRACTOR SHALL COORDINATE AND PAY FOR THE SERVICES OF THE FIRE ALARM MANUFACTURER, FIRE INSPECTOR AND BUILDING INSPECTOR TO THOROUGHLY REVIEW THE PROPOSED INSTALLATION LOCATIONS FOR EACH AND EVERY CONTROL PANEL, REMOTE ANNUNCIATOR PANEL, ANCILLARY DEVICE, FIELD DEVICE, ETC., TO ENSURE THAT THE PROPOSED INSTALLATION IS FULLY COMPLIANT WITH CAN/ULC S524:2019 AND ONTARIO BUILDING CODE. COMPLIANCE SHALL INCLUDE INTERFERENCE AND PROXIMITY TO EXISTING DEVICES AND OBSTRUCTIONS (INCLUDING BUT NOT LIMITED TO LIGHT FIXTURES, SUPPLY AIR DUCTS, EXPOSED DUCT WORK, BEAMS, RACEWAYS, ETC.), SPACING BETWEEN FIELD DEVICES PROVIDED AS PART OF THIS SCOPE OF WORK IN PROPOSED INSTALLATION LOCATIONS, ETC..
- AS PART OF THE BASE BID PRICE ELECTRICAL CONTRACTOR SHALL 8. PROVIDE A FIRE WATCH THROUGHOUT THE DURATION OF THE PROJECT.
- 9. FIRE ALARM SYSTEM TESTING AND VERIFICATIONS MUST TAKE PLACE BETWEEN 11PM AND 5AM DURING THE WEEK.
- 10. AS BUILT DRAWING REQUIREMENTS: AS BUILT DRAWINGS TO BE PREPARED AND SUBMITTED IN AUTOCAD FORMAT BY THE ELECTRICAL CONTRACTOR. ALL DEMOLITION SCOPES OF WORK ARE TO BE ERASED FROM
 - AS BUILT DRAWINGS. ROUTING OF ALL FEEDERS, BRANCH WIRING (LIGHTING, ٠ EMERGENCY LIGHTING, POWER, ETC), LOW VOLTAGE WIRING, MISCELLANEOUS SYSTEMS WIRING, MISCELLANEOUS CONDUIT SYSTEMS, ETC, TO BE SHOWN ON AS BUILT DRAWINGS.
- REFER TO DRAWINGS AND SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
- 11. ALL SCOPES OF WORK REQUIRED TO BE COMPLETED IN OCCUPIED AREAS OF THE FACILITY INCLUDING WORK RELATED TO DEFICIENCIES MUST BE COMPLETED BETWEEN 11PM AND 5AM DURING THE WEEK. REMOVAL AND REINSTALLATION OF CEILING TILES AND RAISED FLOOR TILES TO ACCOMMODATE ALL SCOPES OF WORK SHALL BE PROVIDED BY THE ELECTRICAL CONTRACTOR.
- 12. REMOVAL AND REINSTALLATION OF CEILING TILES IN OCCUPIED AREAS TO ACCOMMODATE ALL SCOPES OF WORK SHALL BE PROVIDED BY THE ELECTRICAL CONTRACTOR.
- 13. ALL PANEL SCHEDULE DIRECTORIES MUST BE UPDATED AND TYPEWRITTEN PANEL SCHEDULE DIRECTORIES MUST BE PROVIDED. SELF-ADHESIVE LABELING TAPE MUST BE USED FOR ALL LABELING AT ALL OUTLETS. LAMACOIDS MUST BE USED FOR LABELING OF ALL ELECTRICAL ENCLOSURES.
- 14. THE CONTRACTOR MUST ENSURE THAT FIRESTOPPING AND SEALANTS ARE INSTALLED AT NEW FLOOR OPENINGS IN ACCORDANCE WITH THE CURRENT FIRE CODE REQUIREMENTS AND TO PREVENT WATER LEAKAGE TO THE FLOORS BELOW. AREAS PRONE TO WATER LEAKAGE ARE TO BE WATERPROOFED PRIOR TO INSTALLATION OF THE TENANT FLOOR COVERINGS. THE LANDLORD WILL APPROVE THE PROPOSED WATERPROOFING METHOD PRIOR TO THE TENANT PROCEEDING WITH CONSTRUCTION.
- 15. PROVIDE A REPORT FROM THE MANUFACTURER FOR ALL FIRESTOP ASSEMBLIES PROVIDED AS PART OF THIS SCOPE OF WORK. REPORT MUST DETAIL COMPLIANCE WITH ONTARIO BUILDING CODE.

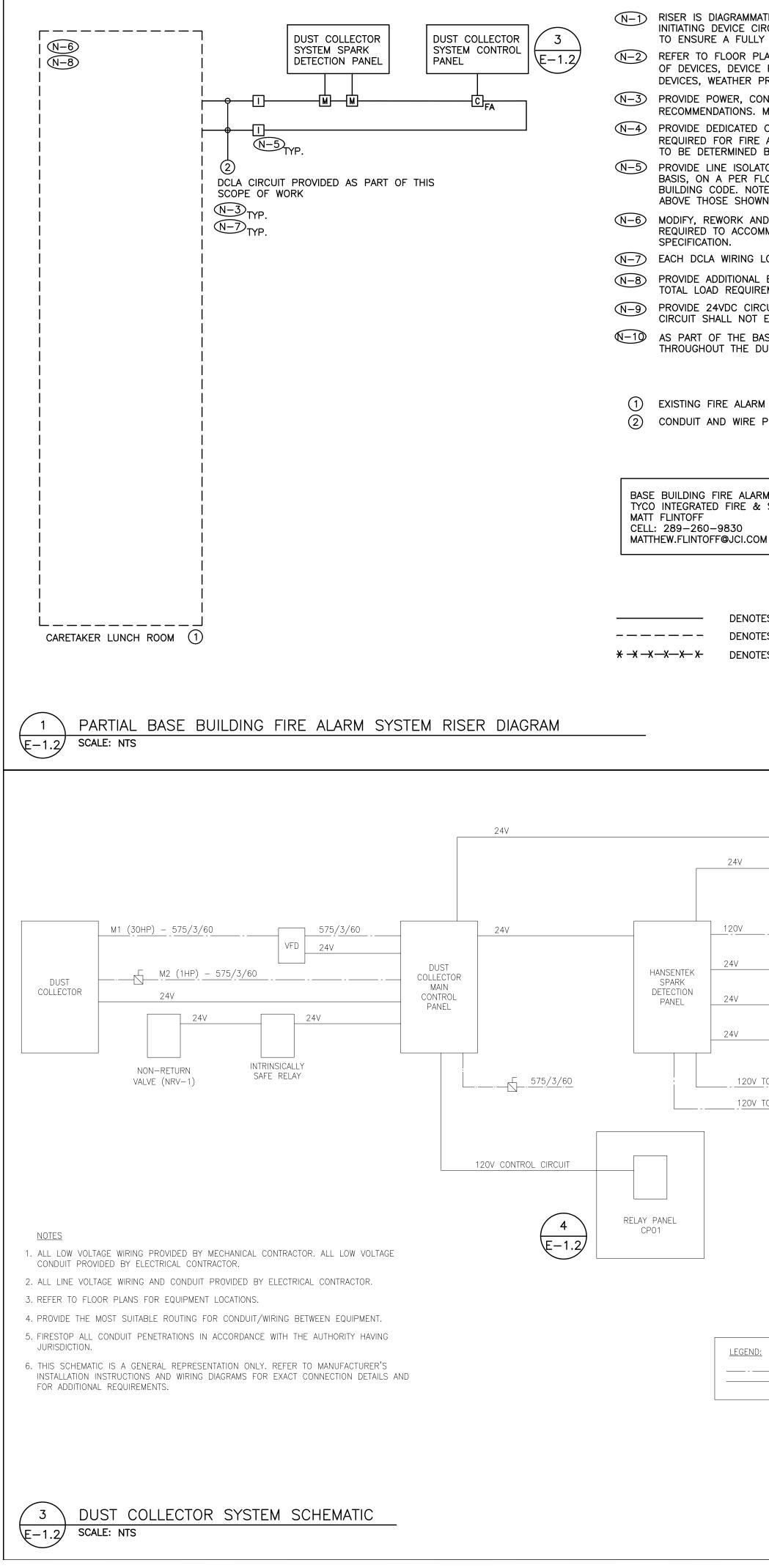
DRAWING LIST

E-1.1	_	ELECTRICAL	LEGEND AND DETAILS
E-1.2	_	ELECTRICAL	DETAILS
E-2.1	_	ELECTRICAL	PLAN – PARTIAL GROUND FLOOR
E-4.1	_	ELECTRICAL	GROUNDING SYSTEM DETAILS
E-7.1	_	ELECTRICAL	SINGLE LINE DIAGRAM
E-9.1	-	ELECTRICAL	PLAN - WOOD SHOP
E-9.2	_	ELECTRICAL	DEMOLITION PLAN - WOOD SHOP

CHECK AND VERIFY ALL DIMENSIONS AT THE SITE. ALL DRAWINGS, SPECIFICATIONS AND RELATED DOCUMENTS ARE THE COPYRIGHT PROPERTY OF THE CONSULTANT AND MUST BE RETURNED UPON REQUEST. REPRODUCTION OF DRAWINGS IN PART OR WHOLE WITHOUT THE PERMISSION OF THE CONSULTANT IS FORBIDDEN. DRAWINGS ARE NOT TO BE USED FOR CONSTRUCTION UNTIL SIGNED AND SEALED BY THE CONSULTANT.							
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SE DU 200	RCHARD CONDAR ST COLLEC DEWITT ROA	RY SCHC TOR REPL	ACEN	IENT			
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	(905) 666-5256 bba@bba-archeng.com	FILE:					
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24141.1 E-1.1

DO NOT SCALE THE DRAWINGS



RCUITS, HARDWARE, MODULES, OPERATIONAL FIRE ALARM S ANS AND REFLECTED CEILING PERIPHERALS AND ACCESSOF PROOF DEVICES, ETC.). NDUIT, BACKBOX AND WIRING MINIMUM CONDUIT SIZE 3/4". CORE DRILLED FLOOR AND W ALARM SYSTEM CONDUITS/MI BY X-RAYING RESULTS.	PLANS FOR EXACT QUANTITY AND LOCATION RIES (IE. WIRE GUARD, EXPLOSION PROOF IN ACCORDANCE WITH MANUFACTURER'S		
E: PROVIDE ADDITIONAL LINE N ON RISER DIAGRAM TO SAT	D BY THE MANUFACTURER AND BY ONTARIO ISOLATOR MODULES AS REQUIRED OVER AND ISFY ISOLATION REQUIREMENTS.		
	AND ACCESSORIES FOR CONTROL PANEL AS RK AS NOTED ON DRAWINGS AND IN		
BATTERIES IN EXISTING CONT EMENTS AT THE COMPLETION CUITS FOR STROBES AND OTH EXCEED 70%. CIRCUIT REQUIN	SERVING DEVICES ON ONE FLOOR. ROL PANEL AS REQUIRED TO SUPPORT THE OF THIS PROJECT. HER 24VDC DEVICES. MAXIMUM LOAD ON EACH REMENTS NOT SHOWN ON RISER DIAGRAM. ONTRACTOR SHALL PROVIDE A FIRE WATCH	PP2(EX) 1	
1 SYSTEM CONTROL PANEL – PER MANUFACTURER'S REQUIF			
		(N-1) PHOTOS ILLUSTRATE EX	KISTING WOODWORK SHOP ELECTRICAL DISTRIE
M SYSTEM MANUFACTURER SECURITY		FOR REFERENCES ONLY	
М			
			PANEL TO BE REPLACED WITH NEW AS PART
ES NEW PROVIDED BY ELECTR	RICAL CONTRACTOR.		TE PANEL REPLACEMENT PROVIDED AS PART
ES EXISTING TO REMAIN. ES EXISTING TO BE REMOVED	BY ELECTRICAL CONTRACTOR.		
		2 PHOTOS – PANEL BO E–1.2 SCALE: NTS	ARD PP2(EX) AND PP2-SUB
		NEUTRAL	
	- FROM FIRE ALARM PANEL $\begin{pmatrix} 1 \\ F - 1 & 2 \end{pmatrix}$	BUS	
	(SYSTEM SHUT-DOWN) — TO FIRE ALARM PANEL (FIRE ALARM & TROUBLE)		NO NO R1
	(TINE ALANNI & TROOBLE)		N0 R1 R1 R1 R1
	ABORT DAMPER (AD-1)		
	SPRAY SOLENOID	PHASE A/B/C BUS RP-PP2	
	SUPERVISORY SWITCH	KP-PP2	CP012
	SPARK DETECTORS	E	EQUIPMENT LOCKOUT RELAY
TO TRANSFORMER			
		DUST COLLEC MAIN CONTRO (1)	CTOR SYSTEM OL PANEL
		SENSORS, HARDWARE, MO	TIC ONLY. PROVIDE QUANTITY OF CONTROL P DULES, ACCESSORIES, DEVICES, CONDUIT, WII NING TO ENSURE A FULLY OPERATIONAL GAS
		AND ACCESSORIES.	FOR EXACT QUANTITY AND LOCATION OF DEVIC
		SPECIFICATIONS. MINIMUM	,
		REQUIRED TO ACCOMMODA SPECIFICATIONS.	PROGRAMMING, LICENSES, COMPONENTS, ACC ATE ALL SCOPES OF WORK NOTED ON DRAWI
— LINE VOLTAGE WIRING PROVIDED / — LOW VOLTAGE WIRING PROVIDED E		N-5 ALL LOW VOLTAGE WIRING	G TO BE ENCLOSED IN A CONDUIT SYSTEM.
		2 RELAY PANEL C/W MULTI-	I MAIN CONTROL PANEL PROVIDED BY MECHA —POLE CONTACTOR PROVIDED AS PART OF TH FFF4TX22/18.15"W X 29.15"H X 9.24"D WALL
		4 WOOD SHOP EQUIPME	NT PANEL WIRNG SCHEMATIC

E-1.2 SCALE: NTS

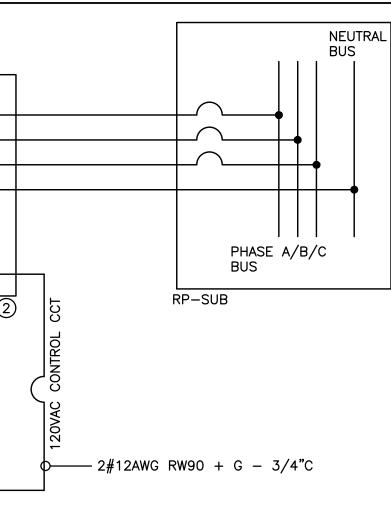




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JB



PANELS, CONTROLLERS, WIRE, POWER SOURCES, ETC., GAS DETECTION SYSTEM.

DEVICES, DEVICE PERIPHERALS

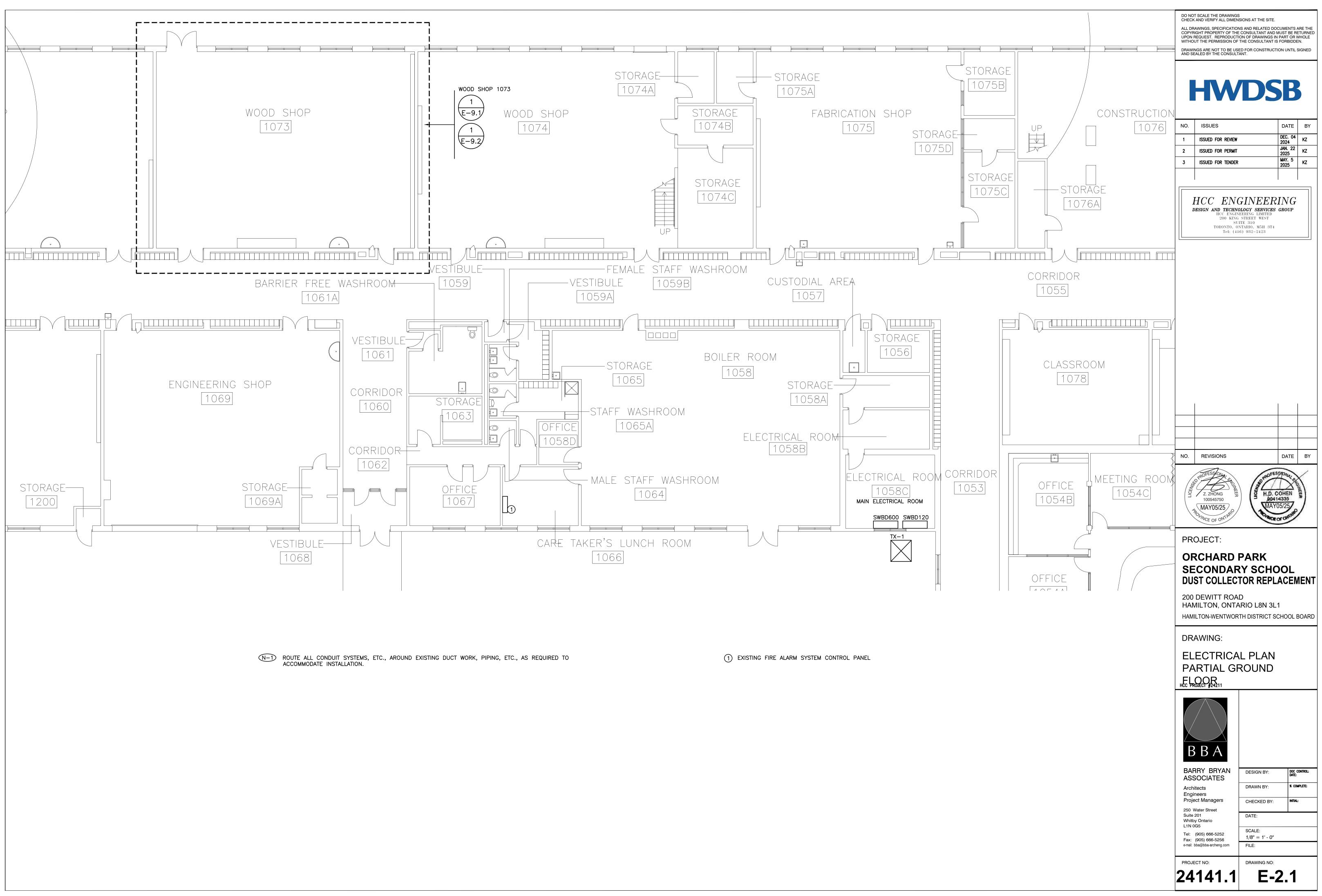
WITH MANUFACTURER'S

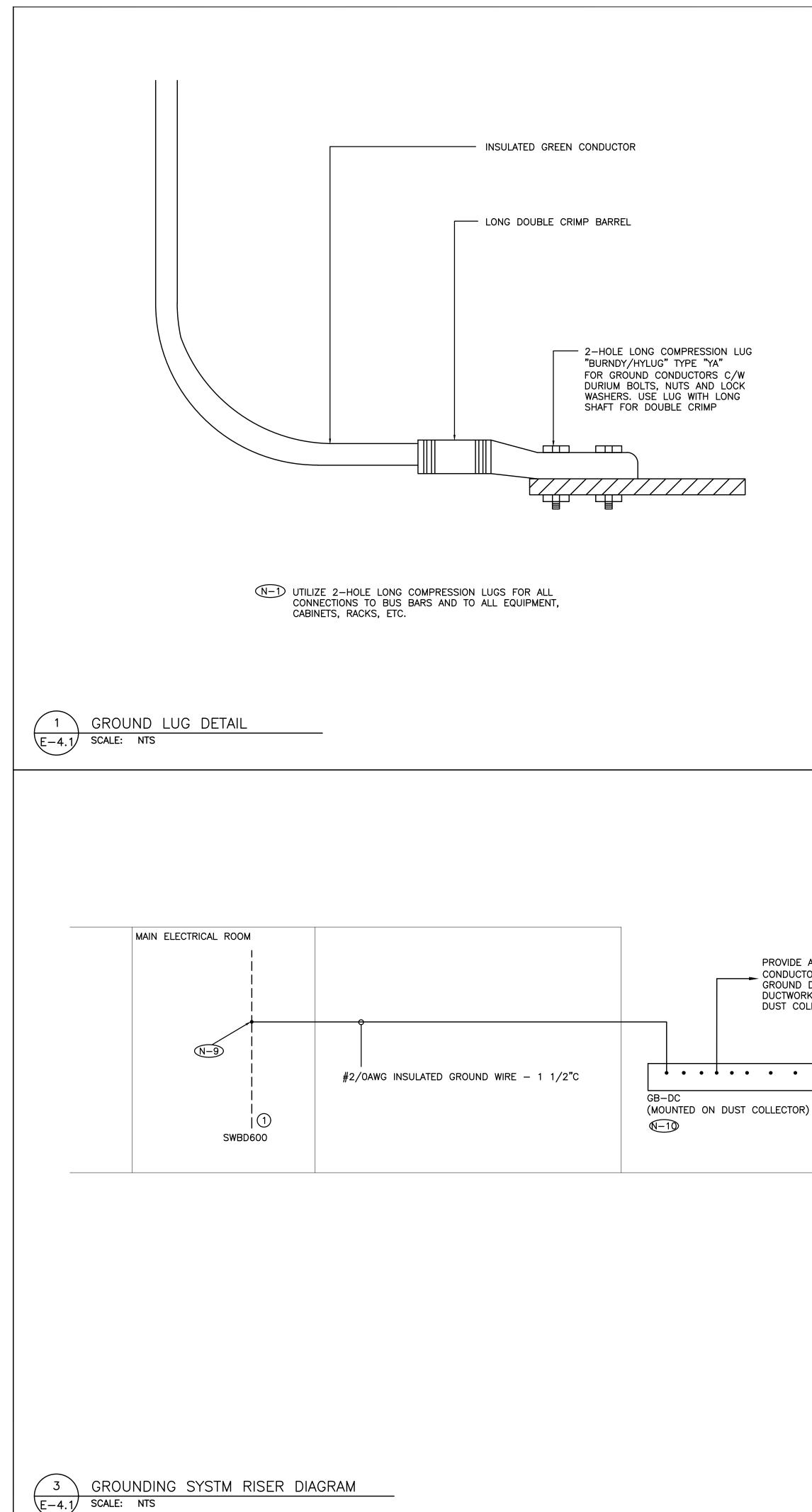
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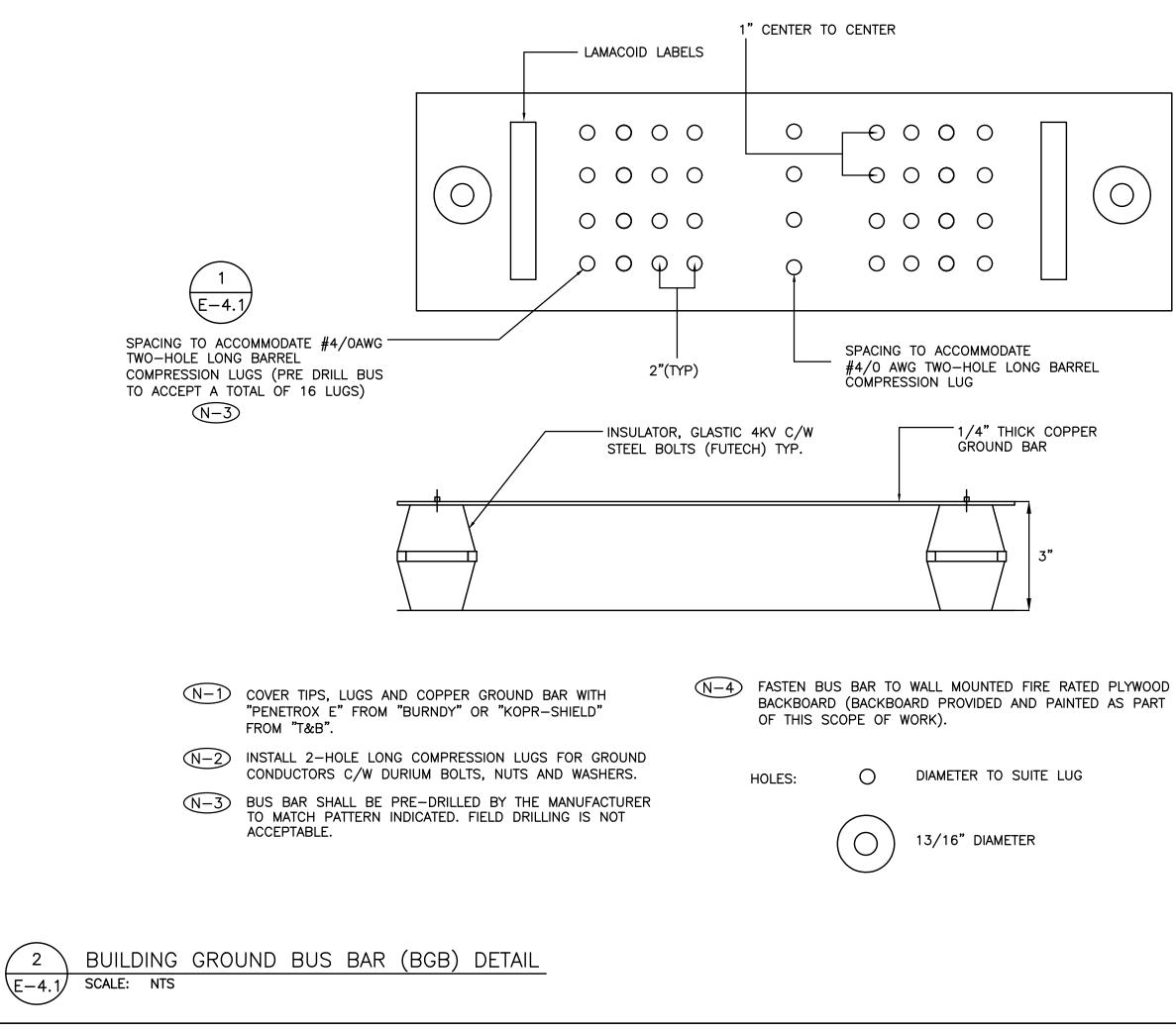
CHANICAL CONTRACTOR

THIS SCOPE OF WORK -WALL MOUNTED ENCLOSURE

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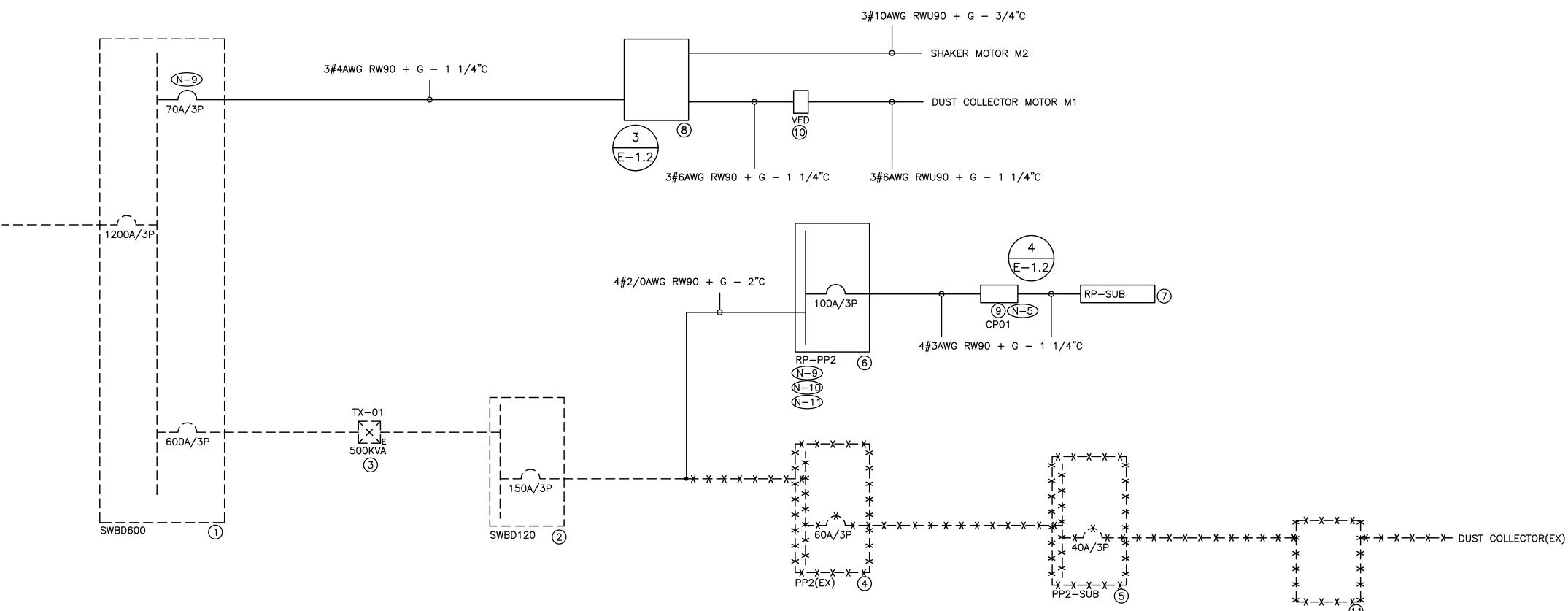




- (N-1) RISER IS DIAGRAMMATIC ONLY. REFER TO DRAWING NO. E-7.1 AND E-9.1 FOR QUANTITY AND LOCATION OF ALL BUS BARS AND GROUNDING CONNECTIONS.
- (N-2) SIZE ALL NEUTRAL SYSTEM GROUNDS IN ACCORDANCE WITH THE ELECTRICAL
- SAFETY CODE AND AUTHORITY HAVING JURISDICTION.
- (N-3) GROUNDING AND BONDING OF ALL EQUIPMENT NOT SHOWN ON THIS DETAIL SHALL BE COMPLETED IN ACCORDANCE WITH THE ELECTRICAL SAFETY CODE AND AUTHORITY HAVING JURISDICTION.
- N-4 NOT USED.
- N-5 NOT USED.
- (N-6) PROVIDE DEDICATED CORE DRILLED WALL AND FLOOR PENETRATIONS. EXACT LOCATION OF ALL CORE DRILLS TO BE DETERMINED BY X-RAY RESULTS.
- (N-7) SCRAPE OFF PAINT AT DUST COLLECTOR SYSTEM END PRIOR TO INSTALLING GROUND LUG.
- (N-8) PROVIDE REQUIRED PENETRATIONS THROUGH ROOF AND BUILDING ENVELOP. COORDINATE WORK AND WEATHERPROOF SEALING REQUIREMENTS WITH LANDLORD.
- (N-9) PROVIDE BURNDY TYPE YC-C SERVICES HIGH GROUND COMPRESSION SYSTEM CONNECTORS.
- NOT USED.
- N-1) ELECTRICAL CONTRACTOR TO REVIEW GROUNDING SYSTEM PROVIDED AS PART OF THIS SCOPE OF WORK AND BASE BUILDING CONNECTION POINTS WITH ESA INSPECTOR PRIOR TO CONSTRUCTION.
- (1) EXISTING GROUNDING CONNECTION POINT AT SERVICE ENTRANCE SWITCHBOARD
- 2 1/4" X 6" X 2' BUILDING GROUND BUS BAR (BGB)

- PROVIDE A SEPARATE #2AWG INSULATED COPPER CONDUCTOR AND CONNECTION (GROUNDING CIRCUIT) TO GROUND DUST COLLECTOR FRAME, MOTOR, METAL DUCTWORK, METAL COLLECTION BINS, FILTERS, ETC, TO DUST COLLECTOR COPPER GROUND BUS.

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(N-1) RISER IS DIAGRAMMATIC ONLY. REFER TO FLOOR PLANS FOR DEVICE QUANTITY AND LOCATIONS.

- (N-2) PROVIDE FIRE RATED PLYWOOD BACKBOARDS FOR ALL ELECTRICAL DISTRIBUTION EQUIPMENT PROVIDED AS PART OF THIS CONTRACT. PAINT BACKBOARDS WITH FIRE RETARDANT PAINT (COLOUR AS DIRECTED ON SITE BY PROJECT MANAGER). FIRE RATED STAMP MUST BE ON ALL PIECES PROVIDED AND MUST BE VISIBLE WHEN INSTALLED. DO NOT PAINT OVER STAMP.
- (N-3) All indoor distribution provided as part of this scope of work must be type 2/type 3R ENCLOSURE, UNLESS SPECIFICALLY NOTED OTHERWISE, PROVIDE COMPRESSION FITTINGS FOR SERVICES ENTERING DISTRIBUTION.
- (N-4) PROVIDE DEDICATED CORE DRILLED WALL AND FLOOR PENETRATIONS ON EVERY FLOOR. EXACT LOCATION OF ALL CORE DRILLS TO BE DETERMINED BY X-RAY RESULTS. ALL X-RAYS MUST BE REVIEWED AND APPROVED BY LANDLORD PRIOR TO CORE DRILLING.
- (N-5) AS PART OF THIS SCOPE OF WORK, PROVIDE LAMACOID PLATE DETAILING OPERATION OF CONTACTOR IN RESPONSE TO ON/OFF STATUS OF DUST COLLECTOR.
- N-6 ALL BREAKERS REQUIRED TO COMPLETE ALL SCOPES OF WORK TO BE NEW. DO NOT REUSE EXISTING BREAKERS.
- (N-7) ROUTE ALL CONDUIT SYSTEMS AROUND EXISTING DUCT WORK, BEAMS, NEW DUCT WORK AND PIPING AS REQUIRED TO ACCOMMODATE ALL INSTALLATION REQUIREMENTS. REFER TO MECHANICAL DRAWINGS AND DESIGNER DRAWINGS FOR ADDITIONAL DETAILS.
- N-8 PROVIDE TEMPORARY POWER AND LIGHTING THROUGHOUT PROJECT TO ACCOMMODATE REQUIREMENTS OF ALL TRADES. REQUIREMENTS INCLUDE PROVIDING EXTENSION CORDS, EXTENSION LIGHTING AND EQUIPMENT REQUIRED FOR THE WORK OF ALL TRADES. ALL COSTS RELATED TO THIS WORK SHALL BE INCLUDED IN THE BASE BID PRICE.
- N-9 CUT BACK, REWORK AND EXTEND EXISTING FEEDER (CONDUIT AND WIRE) TO ACCOMMODATE INSTALLATION OF DISTRIBUTION PROVIDED AS PART OF THIS SCOPE OF WORK. PROVIDE JUNCTION BOXES AND LUGS FOR EXTENDING EXISTING FEEDERS.
- №-10 SWING OVER FOURTY-TWO (42) EXISTING CIRCUITS FROM PANEL PP2(EX) REMOVED AS PART OF THIS SCOPE OF WORK TO NEW PANEL RP-PP2 PROVIDED AS PART OF THIS SCOPE OF WORK TO MAINTAIN EXISTING SERVICES. EXISTING TO REMAIN SERVICES TO BE IDENTIFIED DURING CONSTRUCTION BY THE ELECTRICAL CONTRACTOR AND ARE NOT SHOWN ON THE DRAWINGS. PROVIDE NEW BREAKERS. PROVIDE/EXTEND CONDUIT AND WIRE FEEDING EXISTING BRANCH DEVICES AND TIE INTO RESPECTIVE CIRCUITS BEING RELOCATED TO NEW PANEL RP-PP2 AS PART OF THIS CONTRACT.
- №-1) SWING OVER NINE (9) EXISTING CIRCUITS FROM PANEL PP2-SUB REMOVED AS PART OF THIS SCOPE OF WORK TO NEW PANEL RP-PP2 PROVIDED AS PART OF THIS SCOPE OF WORK TO MAINTAIN EXISTING SERVICES. EXISTING TO REMAIN SERVICES TO BE IDENTIFIED DURING CONSTRUCTION BY THE ELECTRICAL CONTRACTOR AND ARE NOT SHOWN ON THE DRAWINGS. PROVIDE NEW BREAKERS. PROVIDE/EXTEND CONDUIT AND WIRE FEEDING EXISTING BRANCH DEVICES AND TIE INTO RESPECTIVE CIRCUITS BEING RELOCATED TO NEW PANEL RP-PP2 AS PART OF THIS CONTRACT.
- N-12 PROVIDE REQUIRED PENETRATIONS THROUGH ROOF AND BUILDING ENVELOP. COORDINATE WORK AND WEATHERPROOF SEALING REQUIREMENTS WITH LANDLORD.
- N-13 USE GALVANIZED RIGID STEEL CONDUIT IN ALL OUTDOOR LOCATIONS AND IN AREAS THAT ARE NOT ENVIRONMENTALLY CONTROLLED.

(1) EXISTING SWITCHBOARD - 347/600V/3PH/4W/1200A MCB/SIEMENS FCI/25KA RMS

(2) EXISTING SWITCHBOARD – 120/208V/3PH/4W/1600A MCB/SIEMENS FCI/65KA RMS

(3) EXISTING DRY TYPE TRANSFORMER – 600/120/208V/3PH/4W/HAMMOND

(4) EXISTING RECEPTACLE PANEL C/W INTEGRATED CONTACTOR – 120/208V/3PH/4W/225A MAINS/42

CCT/FEDERAL PACIFIC NALP 42-4L/25KA RMS (5) EXISTING RECEPTACLE PANEL – 120/208V/3PH/4W/125A MAINS/20 CCT/CUTLER-HAMMER 3CPL112/25KA RMS

(6) RECEPTACLE PANEL - 120/208V/3PH/4W/150A MCB/84 CCT/SQ D NQ/25KA RMS

(7) RECEPTACLE PANEL - 120/208V/3PH/4W/100A MCB/42 CCT/SQ D NQ/25KA RMS

(8) DUST COLLECTOR MAIN CONTROL PANEL C/W SPARK DETECTION PANEL PROVIDED BY MECHANICAL CONTRACTOR

(9) RELAY PANEL PROVIDED AS PART OF THIS SCOPE OF WORK. REFER TO DETAIL NO. 4 ON DRAWING NO. E-1.2 FOR ADDITIONAL REQUIREMENTS.

(1) VARIABLE FREQUENCY DRIVE (VFD) PROVIDED BY MECHANICAL CONTRACTOR

(1) EXISTING DUST COLLECTOR MAIN CONTROL PANEL C/W SPARK DETECTION PANEL TO BE REMOVED BY MECHANICAL CONTRACTOR

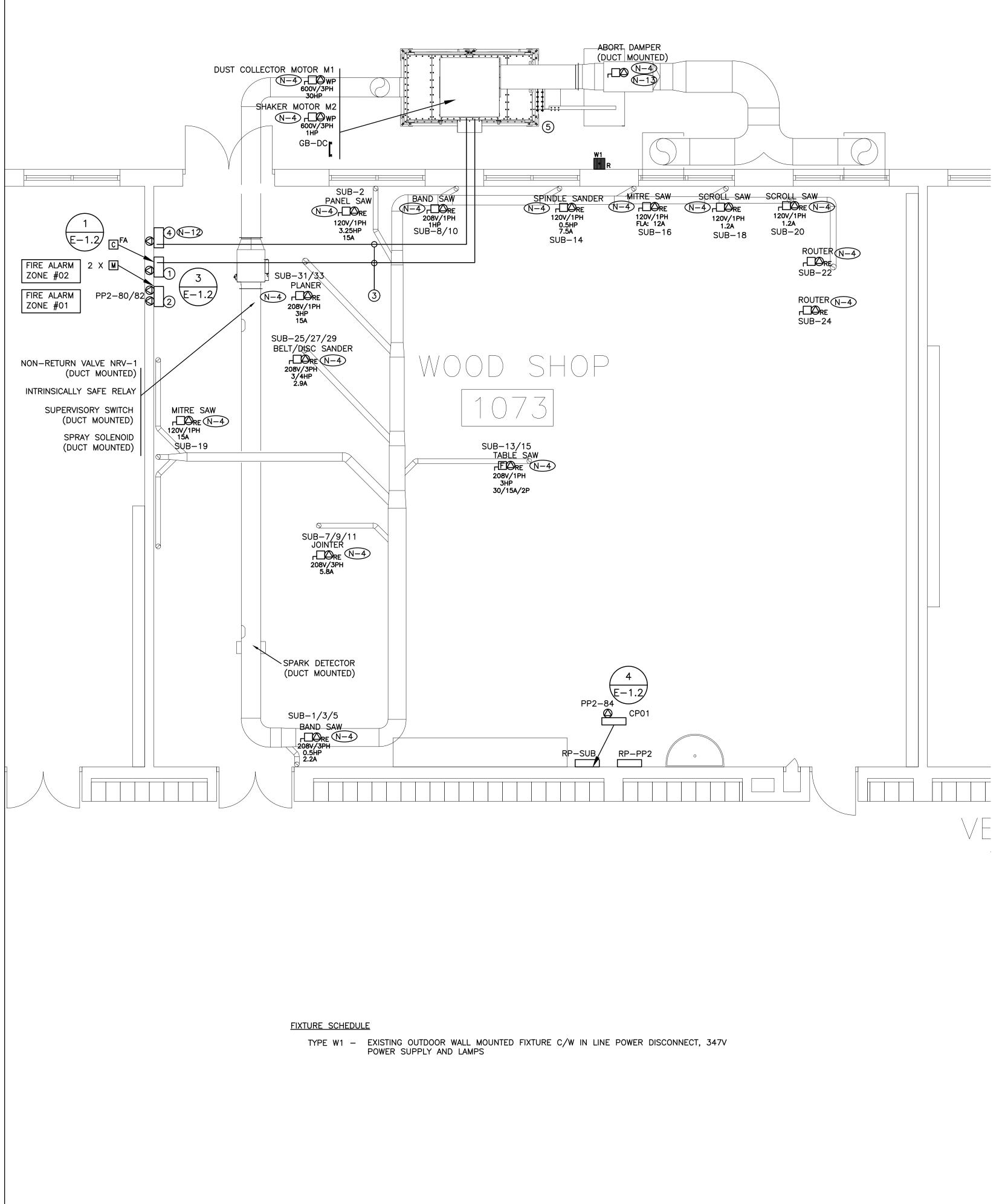
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X X X X DENOTES EXISTING TO BE REMOVED BY ELECTRICAL CON

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DO NOT SCALE THE DRAWINGS



($\overline{N-1}$	EXACT LOCATION OF ALL DEVICES AND RESPECTIV
(N-2	NEATLY LABEL ALL FLOOR MOUNTED AND WALL E NAMES AND CIRCUIT NUMBERS. UTILIZE SELF ADI
(N-3	CIRCUIT NUMBERS MAY NOT BE CHANGED WITHOUT
(N-4	CONFIRM BREAKER/FUSE AND RECEPTACLE/DISCO
(N-5	COORDINATE WIRING REQUIREMENTS FOR MECHAN
(N-6	CONFIRM ELECTRICAL REQUIREMENTS AND EXACT CONTRACTOR PRIOR TO INSTALLATION OF ELECTR
(N-7)	ALL FINAL CONNECTIONS TO MECHANICAL EQUIPM
(N-8	ROUTE ALL CONDUIT SYSTEMS AROUND EXISTING ACCOMMODATE INSTALLATION. REFER TO MECHANI
(N-9	MINIMUM WIRE SIZE #10AWG FOR ALL 120 VOLT
(N-10	MINIMUM WIRE SIZE #8AWG FOR ALL 120 VOLT
(N-1)	USE GALVANIZED RIGID STEEL CONDUIT IN ALL O ENVIRONMENTALLY CONTROLLED.
0	N-12	DUST COLLECTOR VFD POWERED THROUGH DUST
(N-13	DUST COLLECTOR ABORT DAMPER POWERED THROWIRE.

- (1) DUST COLLECTOR CONTROL PANEL PROVIDED BY MECHANICAL CONTRACTOR
- (2) DUST COLLECTOR SPARK DETECTION PANEL PROVIDED BY MECHANICAL CONTRACTOR
- PROVIDED AS PART OF THIS SCOPE OF WORK. REFER TO DETAIL NO. 3 ON DRAWING NO. E-1.2 AND TO DRAWING NO. E-7.1 FOR ADDITIONAL REQUIREMENTS.
- (4) DUST COLLECTOR VFD PROVIDED BY MECHANICAL CONTRACTOR (5) DUST COLLECTOR PROVIDED BY MECHANICAL CONTRACTOR

INSULATION FOR ALL EXTERIOR WIRING MUST BE RWU90.

TIVE HEIGHTS TO BE COORDINATED ON SITE WITH ARCHITECT DEVICE BOX COVERS AND UTILITY POLES WITH CORRESPONDING PANEL DHESIVE MECHANICALLY PRINTED LABELS. OUT PRIOR APPROVAL FROM THE ELECTRICAL ENGINEER.

CONNECT REQUIREMENTS PRIOR TO INSTALLATION.

ANICAL EQUIPMENT ON SITE WITH MECHANICAL CONTRACTOR.

LOCATION OF ALL MECHANICAL EQUIPMENT WITH MECHANICAL FRICAL SERVICES.

PMENT ARE TO BE IN LIQUID TIGHT FLEXIBLE CONDUIT.

DUCT WORK, BEAMS, NEW DUCT WORK AND PIPING AS REQUIRED TO NICAL DRAWINGS AND ARCHITECTURAL DRAWINGS FOR ADDITIONAL DETAILS. CIRCUITS EXCEEDING 90 FEET IN LENGTH.

CIRCUITS EXCEEDING 200 FEET IN LENGTH.

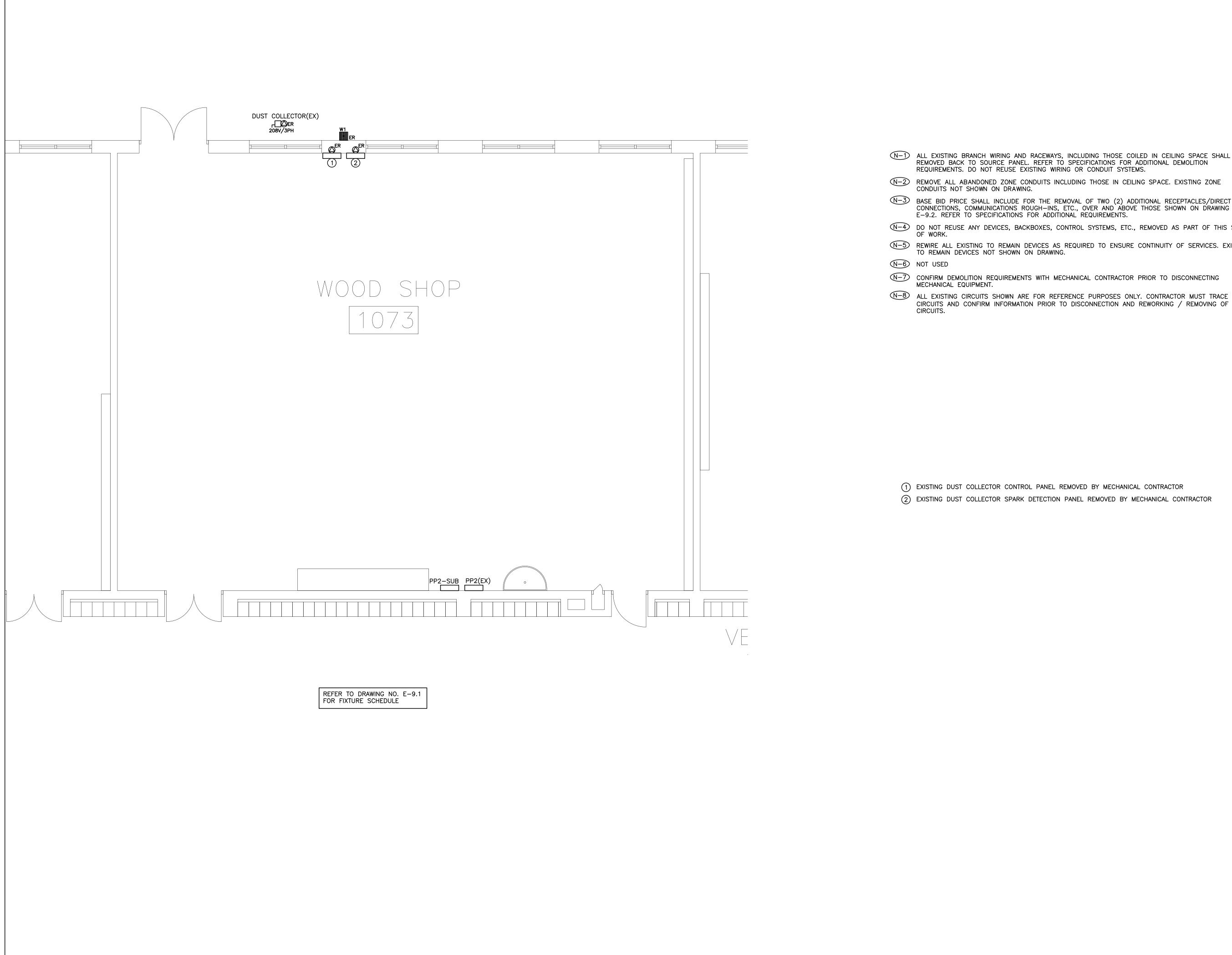
OUTDOOR LOCATIONS, IN WASHROOMS AND IN AREAS THAT ARE NOT

COLLECTOR MAIN CONTROL PANEL. PROVIDE CONDUIT AND WIRE. ROUGH DUST COLLECTOR SPARK DETECTION PANEL. PROVIDE CONDUIT AND

3 APPROXIMATE ROUTING OF CONDUITS PROVIDED AS PART OF THIS SCOPE OF WORK FOR BRANCH CIRCUITS/FEEDERS/ETC.,

DO NOT SCALE THE DRAWINGS CHECK AND VERIFY ALL DIMENSIONS AT THE SITE. ALL DRAWINGS, SPECIFICATIONS AND RELATED DOCUMENTS ARE THE COPYRIGHT PROPERTY OF THE CONSULTANT AND MUST BE RETURNED UPON REQUEST. REPRODUCTION OF DRAWINGS IN PART OR WHOLE WITHOUT THE PERMISSION OF THE CONSULTANT IS FORBIDDEN. DRAWINGS ARE NOT TO BE USED FOR CONSTRUCTION UNTIL SIGNED AND SEALED BY THE CONSULTANT. HWDSB NO. ISSUES DATE BY DEC. 04 2024 KZ ISSUED FOR REVIEW -JAN. 22 2025 KZ 2 ISSUED FOR PERMIT MAY. 5 2025 KZ 3 ISSUED FOR TENDER HCC ENGINEERING DESIGN AND TECHNOLOGY SERVICES GROUP HCC ENGINEERING LIMITED 200 KING STREET WEST SUITE 310 TORONTO, ONTARIO, M5H 3T4 Tel: (416) 932–2423 NO. REVISIONS DATE BY H.D. COHEN 90414335 . ZHONG 100545750 MAY05/2 MAY05/25 PROJECT: **ORCHARD PARK** SECONDARY SCHOOL DUST COLLECTOR REPLACEMENT 200 DEWITT ROAD HAMILTON, ONTARIO L8N 3L1 HAMILTON-WENTWORTH DISTRICT SCHOOL BOARD DRAWING: ELECTRICAL PLAN WOOD SHOP HCC PROJECT #24211 ΒB BARRY BRYAN DESIGN BY: DOC CONTROL: ASSOCIATES % COMPLETE: DRAWN BY: Architects Engineers Project Managers CHECKED BY: INITIAL: 250 Water Street Suite 201 DATE: Whitby Ontario L1N 0G5 SCALE: Tel: (905) 666-5252 1/4" = 1' - 0" Fax: (905) 666-5256 e-mail: bba@bba-archeng.com FILE: PROJECT NO: DRAWING NO: E-9.1

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	CHECK ALL DR. COPYR UPON F WITHOU DRAWII	T SCALE THE DRAWINGS AND VERIFY ALL DIMEN AWINGS, SPECIFICATION GHT PROPERTY OF THE REQUEST. REPRODUCTI JT THE PERMISSION OF NGS ARE NOT TO BE USI FALED BY THE CONSULT	SIONS AT THE SITE. NS AND RELATED DOO CONSULTANT AND N ION OF DRAWINGS IN THE CONSULTANT IS ED FOR CONSTRUCTI	IUST BE RE PART OR V FORBIDDE	eturned Vhole In.
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N-1) ALL EXISTING BRANCH WIRING AND RACEWAYS, INCLUDING THOSE COILED IN CEILING SPACE SHALL BE REMOVED BACK TO SOURCE PANEL. REFER TO SPECIFICATIONS FOR ADDITIONAL DEMOLITION REQUIREMENTS. DO NOT REUSE EXISTING WIRING OR CONDUIT SYSTEMS.

 $\mathbb{N}=3$ BASE BID PRICE SHALL INCLUDE FOR THE REMOVAL OF TWO (2) ADDITIONAL RECEPTACLES/DIRECT CONNECTIONS, COMMUNICATIONS ROUGH-INS, ETC., OVER AND ABOVE THOSE SHOWN ON DRAWING NO. E-9.2. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS. N-4 DO NOT REUSE ANY DEVICES, BACKBOXES, CONTROL SYSTEMS, ETC., REMOVED AS PART OF THIS SCOPE

 $\overline{N-5}$ REWIRE ALL EXISTING TO REMAIN DEVICES AS REQUIRED TO ENSURE CONTINUITY OF SERVICES. EXISTING TO REMAIN DEVICES NOT SHOWN ON DRAWING.

1 EXISTING DUST COLLECTOR CONTROL PANEL REMOVED BY MECHANICAL CONTRACTOR