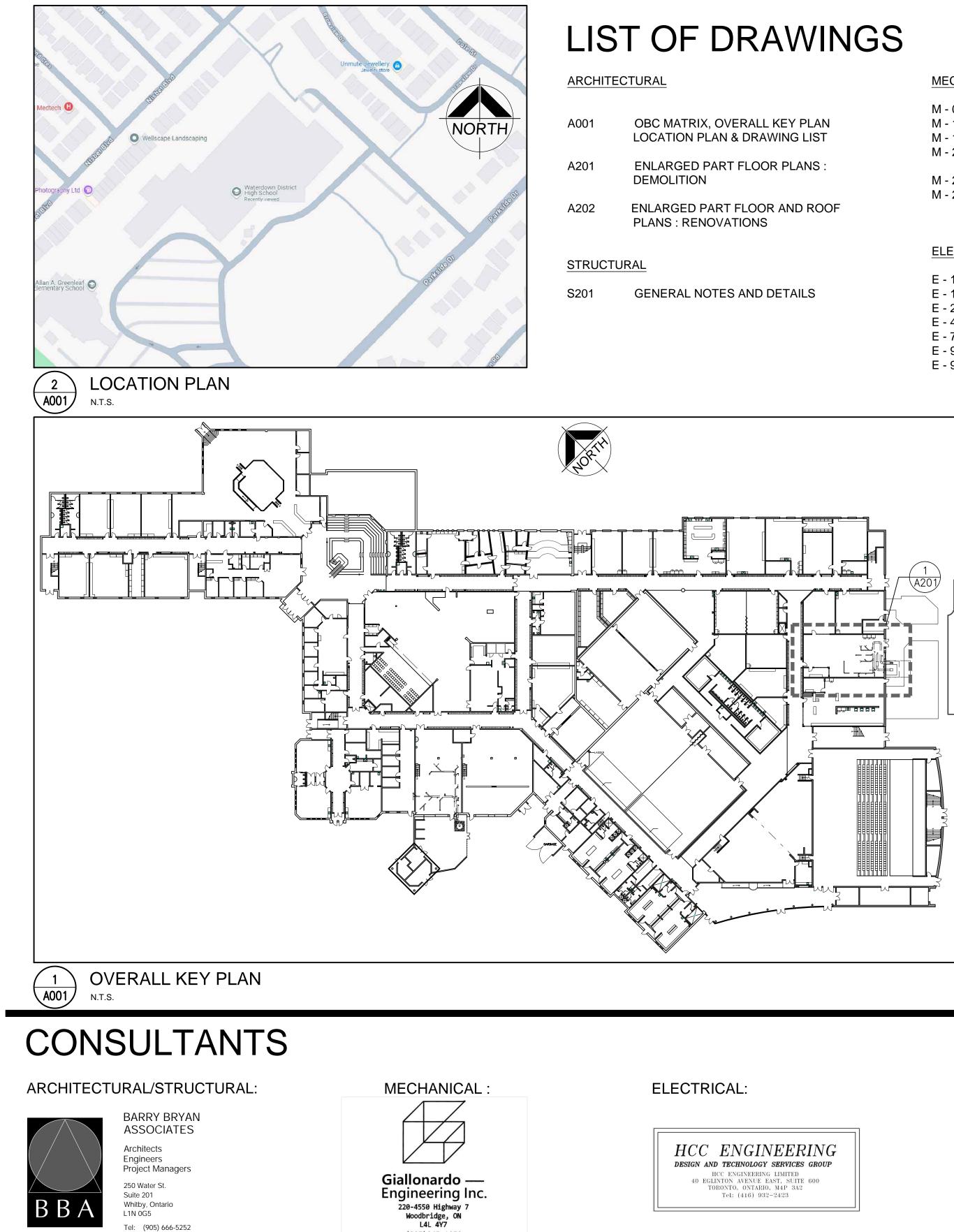
Waterdown District High School Dust Collector Replacement

215 Parkside Drive Waterdown, Ontario



(905)265-1052

info@giallonardoeng.com

www.giallonardoeng.com

Fax: (905) 666-5256

e-mail: bba@bba-archeng.com

X, OVERALL KEY PLAN PLAN & DRAWING LIST	
PART FLOOR PLANS : N	
PART FLOOR AND ROOF	

MECHANICAL

M - 0	TITLE SHEET
M - 1.1	MECHANICAL LEGEND
M - 1.2	MECHANICAL SCHEDULES AND DETAILS
M - 2.1	WOOD SHOP DUST COLLECTION SYSTEM -
	DEMOLITION
M - 2.2	WOOD SHOP DUST COLLECTION SYSTEM - NEW
M - 2.3	WOOD SHOP DUST COLLECTION SYSTEM - EAST
	ELEVATION
ELECTRIC	

E - 1.1	ELECTRICAL LEGEND AND DETAILS
E - 1.2	ELECTRICAL DETAILS
E - 2.1	ELECTRICAL PLAN 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

C ENGINEER	ING
AND TECHNOLOGY SERVICES	
HCC ENGINEERING LIMITED EGLINTON AVENUE EAST, SUITE	600
TORONTO, ONTARIO, M4P 3A2	000
Tel: (416) 932-2423	

NAME OF CONSULTANT : BARRY BRYAN ASS
CERTIFICATE OF PRACTICE NUMBER : 5192
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 : WATERDOWN DISTRICT HIGH SCHOOL DUST COLLECTOR REPLACEMENT

LOCATION OF PROJECT :

215 PARKSIDE DRIVE, WATERDOWN ONTARIO DATE :

JANUARY 22, 2025

	Ontario Building Cod Data Matrix Part 11 - Renovation	
11.00	Building Code Versio	on: <u>O. Reg. 332/12</u>
11.01	Project Type:	 Addition Change of use Description
11.02	Major Occupancy Classification:	Occupancy Group A, Divisi
11.03	Superimposed Major Occupancies:	□ Yes ■ N Description
11.04	Building Area (m²)	Description Wood Shop Re
11.05		Total=
11.05	Building Height*	
11.06	Number of streets/ fire fighter access:	1 str
11.07	Building Size:	🗆 Small 🛛 🗆 N
11.08	Existing Building Classification:	Change in Major Occ
		Construction Index: _ Hazard Index:
		Importance Category
11.09	Renovation Type:	Basic Renovation
11.10	Occupant Load:	Floor Level/ Area NO CHANGE
11.11a	Plumbing Fixture Requirements:	Ratio: Male/Female
		Floor level/ Area
11.11b	Plumbing Fixture Requirements:	Floor level/ Area (Repeated)
	cont.	NO CHANGE
11.12	Barrier-free Design:	SCOPE NOT RELA ■ Yes □ No Barrier-Free Entrance
11.13	Reduction in Performance Level:	Structural By Increase in occupa By change of major o
		Plumbing Sewage - system:
11.14	Compensating Construction:	🗆 Yes 🔳 N
		Structural By Increase in occupa By change of major of Plumbing Sewage - system: Extension of Combustible Construction:
11.15	Compliance Alternatives Proposed:	■ No □ Y
11.16	Notes:	REPLACE EXISTING
		AREA SCOPE OF W

NORTY

SOCIATES

				OBC Reference
		Dec. 00/22		
Last An Renovation	nendment: <u>O</u>	Addition and	Renovation	[A] 1.1.2.
COLLECTOR REPLAC				
Use		OOD SHOP		3.1.2.1.(1) & 11.2.
n 2 Elementary S	chool			
0				11.2 & 3.2.2.5
- 				3.2.2.8.
novation	<u>Existing</u> <u>±1,92</u> 1sf	New	<u>Total</u> <u>±1,92</u> 1sf	[A] 1.4.1.2., 11.2, 8 11.3.
Storeys above grade	<u>±1,92</u> 1sf	(m) Above grade	<u>±1,92</u> 1sf	[A] 1.4.1.2 &
Storeys below grade		(III) Above grade		3.2.1.1 & 11.3.
eet(s)				3.2.2.10, 3.2.5 & 11.3.
edium 🔳 Large	🗆 > Larg	ge		T.11.2.1.1.BN.
upancy: 🛛 Yes	Not A	pplicable ange of		11.2.1 T11.2.1.1A
-	major	occupancy)		T11.2.1.1B to N,
				4.2.1(3) &
☐ Low ☐ High	Norma	al disaster		5.2.2.1. (2)
•	e Renovation			11.3.3.1 & 11.3.3.
Occupancy Type	Based C	On Occ	up. Load	3.1.17, 11.4.2.2.
e = 50:50 Except as not	ed otherwise			3.7.4
Occupant OBC Load Refere	-	-ixtures Required	Fixtures Provided	
B.F. Fixture B.F. Fi			Ini Fixtures	Tables 3.8.2.3.A
Required Provi	ded R	Required	Provided	and 3.8.2.3.B
				0.0.2.0.8
				11.3.3.2.(2)
	ion □ Yes			11.4.2.1
	🗆 Yes			11.4.2.2
No	□ Yes □ Yes			11.4.2.4
_				11.4.2.6
				11.4.2.1
	□ Yes			11.4.2.3
No	□ Yes			11.4.2.5
				11.4.2.7
es				11.5.1.
DUST COLLECTOR W OP AREAS	ITH NEW DUS	ST COLLECTOR		11.5.1
ORK = ± 1,921 SF				

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

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L			
	Γ		
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:

WATERDOWN DISTRICT **HIGH SCHOOL** DUST COLLECTOR REPLACEMENT

215 PARKSIDE DRIVE WATERDOWN, ONTARIO L8B 1B9 HAMILTON-WENTWORTH DISTRICT SCHOOL BOARD

DRAWING:

COVER SHEET, MATRIX LOCATION PLAN LIST OF DRAWINGS

DESIGN BY:

DRAWN BY:

CHECKED BY:

DEC. 06, 2024

BBA

DATE:

SCALE:



BARRY BRYAN ASSOCIATES Architects Engineers Project Managers

250 Water Street Suite 201 Whitby Ontario L1N 0G5 Tel: (905) 666-5252 Fax: (905) 666-5256

e-mail: bba@bba-archeng.com

24141.2

FILE: PROJECT NO:

AS NOTED DRAWING NO: **A001**

DOC CONTROL:

% COMPLETE:

INITIAL:

GENERAL DEMOLITION NOTES

CODE.

- SITE VERIFY ALL DIMENSIONS AND CONDITIONS.
 ALL WORK TO BE IN ACCORDANCE WITH THE ONTARIO BUILDING
- 3. COMPLY WITH THE 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, LANDSCAPE OR PART THEREOF.
- 5. COMPLETE ALL DEMOLITION WORK NECESSARY TO COMPLETE THE RENOVATIONS AS SHOWN AND AS REQUIRED. DEMOLITION OF BUILDING ELEMENTS INCLUDES BUT NOT LIMITED TO COMPLETE REMOVAL OF ALL ASSOCIATED FIXTURES, FITTINGS, HARDWARE, FASTENERS, EQUIPMENT AND ACCESSORIES UNLESS NOTED OTHERWISE.
- ARCHITECTURAL, STRUCTURAL, MECHANICAL AND ELECTRICAL DEMOLITION DRAWINGS ARE COMPLEMENTARY AND SHALL BE READ TOGETHER.
- 7. PROVIDE ALL SHORING AS REQUIRED. SHORING SHALL BE DESIGNED BY A REGISTERED PROFESSIONAL ENGINEER.
- 8. 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.
- 9. 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.
- 10. DISCONNECT AND CAP OFF ALL SERVICES PRIOR TO DEMOLITION.
- 11. MAINTAIN ALL WORK AREAS AND ALL STORAGE AREAS CLEAN AND ORDERLY AT ALL TIMES INCLUDING EXISTING AREAS THAT REMAIN IN OPERATION DURING CONSTRUCTION. DUST CONTROL MEASURES ARE TO BE IN PLACE AT ALL TIMES AND NOISY WORK SHALL BE COORDINATED AROUND PROGRAM EVENTS.
- 12. DEMOLITION INCLUDES ALL ASSOCIATED MECHANICAL AND ELECTRICAL SERVICES, EQUIPMENT, FITTINGS, FIXTURES, HANGERS, BRACKETS, TRIM AND ACCESSORIES AS REQUIRED TO COMPLETE THE WORK.
- MAINTAIN EXISTING FIRE HOSE CABINETS AND FIRE RATINGS.
 DISPOSE OF MATERIALS OFF SITE. RECYCLE WHERE POSSIBLE (CONFIRM WITH OWNER)
- 15. 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.
- BUILDING TO BE SECURED BY THE CONTRACTOR AT ALL TIMES.
 COORDINATE ALL DEMOLITION WORK WITH ABATEMENT AND
- HAZARDOUS REMOVALS IDENTIFIED IN ASBESTOS ABATEMENT SPECIFICATION.
- 18. CONTRACTOR IS RESPONSIBLE FOR FINAL CLEAN OF AREA.

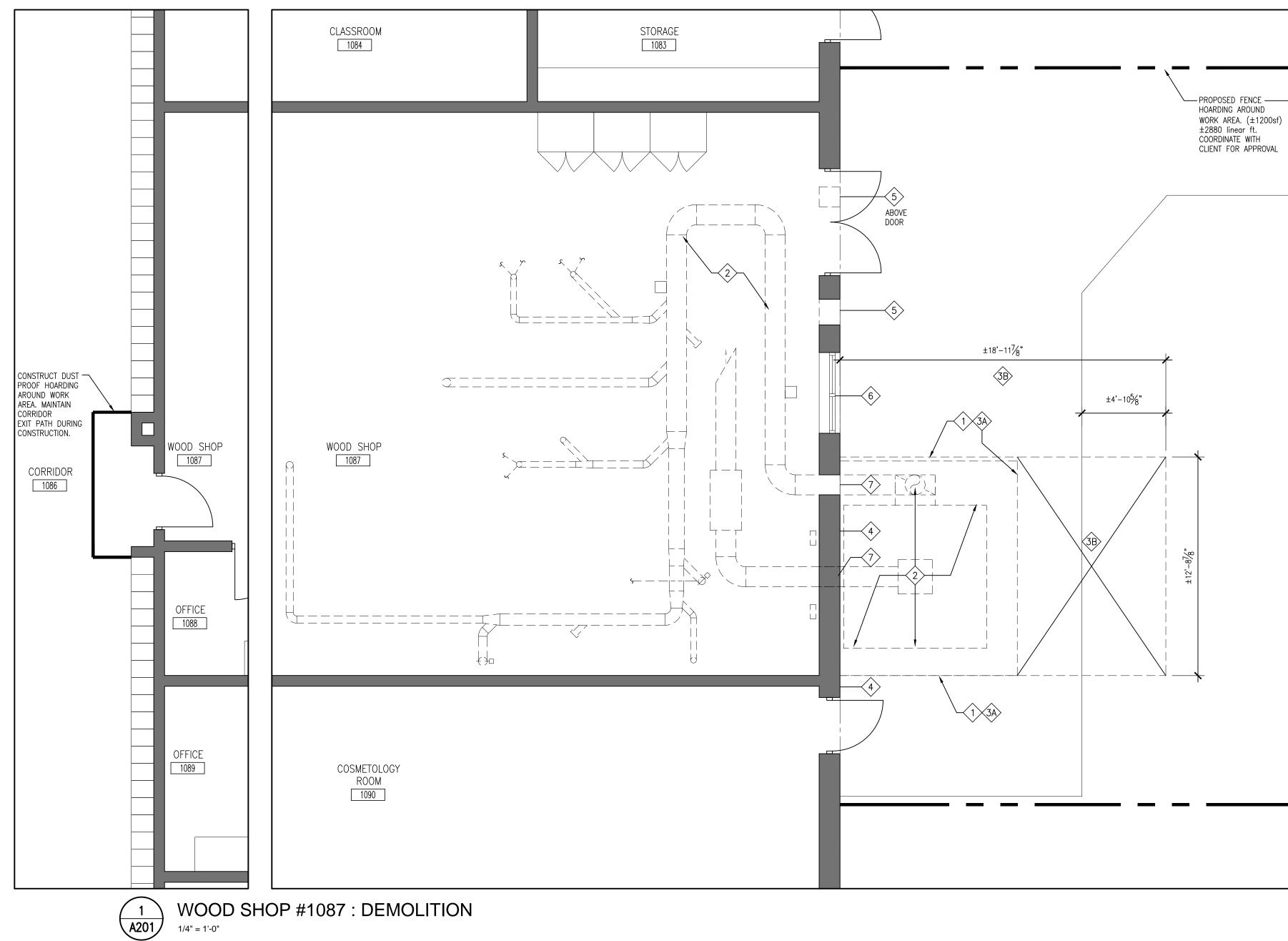
DEMOLITION LEGEND

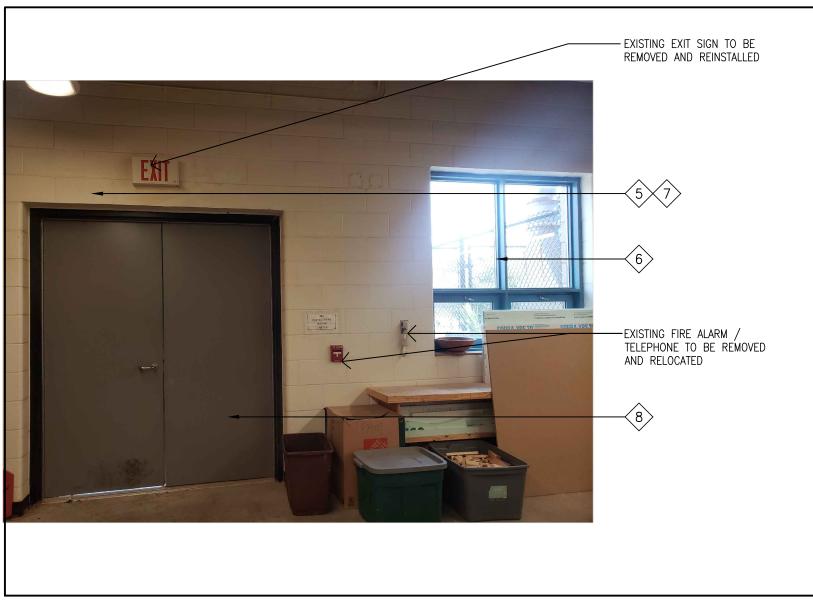
- EXISTING WALL, PARTITION OR COLUMN
- ----- DENOTES DEMOLITION OF BUILDING ELEMENT

EXISTING DOOR, FRAME AND TRIM TO REMAIN

DEMOLITION NOTES

- EXISTING CHAIN LINK FENCE AND GATE TO BE REMOVED.
 EXISTING MECHANICAL DUST COLLECTOR AND DUCT WORK TO BE REMOVED IN IT'S ENTIRETY. REFER TO MECHANICAL & ELECTRICAL. ALL FINISHES BY THE REMOVAL SHALL BE RESTORED TO EXISTING CONDITIONS.
 EXISTING CONCRETE PAD TO BE EXTENDED AS NEEDED. PATHWAY AND SOD TO BE PATCHED, REPAIRED AND MAKE GOOD ALL AFFECTED SURFACES FOR NEW WORK.
 REMOVE EXISTING CONCRETE / SOD SURFACE AT EXTENT
- 3B REMOVE EXISTING CONCRETE / SOD SURFACE AT EXTENT SHOWN. PATCH AND REPAIR ALL AFFECTED SURFACES FOR NEW WORK.
- 4 EXISTING EXTERIOR WALL TO BE PROTECTED DURING NEW WORK. PATCH, REPAIR AND MAKE GOOD ALL AFFECTED SURFACES.
- 5 CUT EXISTING MASONRY CAVITY WALL FOR NEW MECHANICAL DUCT. (CO-ORDINATE WITH MECHANICAL FOR SIZE AND LOCATION)
- 6 EXISTING WINDOW TO BE PROTECTED DURING NEW WORK. PATCH, REPAIR AND MAKE GOOD ALL AFFECTED SURFACES.
- REMOVE FLANGED WALL PENETRATION AND MAKE GOOD SPLIT FACE MASONRY BLOCK TO MATCH EXISTING AFTER. MAKE GOOD INTERIOR AREA FOR NEW PAINT FINISH.
- 8 EXISTING DOOR AND FRAME TO BE PROTECTED DURING NEW WORK. PATCH, REPAIR AND MAKE GOOD ALL AFFECTED SURFACES.





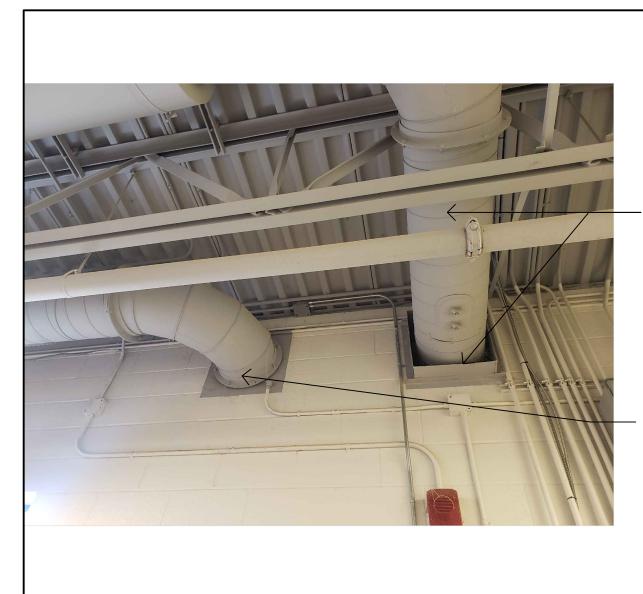


PHOTO-P2



2 —REMOVE EXISTING DUCT IN IT'S ENTIRETY. NEW CAVITY WALL CONSTRUCTION

TO MATCH EXISTING (8" CONCRETE MASONRY BLOCK AND SPLIT FACE BRICK VENEER)

- REMOVE EXISTING DUCT IN IT'S ENTIRETY. REUSE EXISTING WALL PENETRATION FOR NEW DUCT COLLECTOR



	HORTH	

NO. 1 2 3	ISSUED FOR 60% RE ISSUED FOR PERMIT ISSUED FOR TENDER		DATE	
2	ISSUED FOR PERMIT			BY
		EVIEW	DEC. 06, 2024 JAN. 22,	BBA
			2025 APR. 28, 2025	BBA BBA
PROJECT: WATERDOWN DISTRICT HIGH SCHOOL DUST COLLECTOR REPLACEMENT 215 PARKSIDE DRIVE WATERDOWN, ONTARIO L8B 1B9				
HIG DUS 215 F WAT	PARKSIDE DI ERDOWN, O	TOR REPL RIVE NTARIO L8B	1B9	IEN
HIG DUS 215 F WAT HAMIL DRA	T COLLEC	TOR REPL RIVE NTARIO L8B TH DISTRICT SO	1B9 CHOOL E	IEN
HIG DUS 215 F WAT HAMIL DRA EN PLA	T COLLEC PARKSIDE DI ERDOWN, OI TON-WENTWOR WING: LARGED ANS : DE	TOR REPL RIVE NTARIO L8B TH DISTRICT SO	1B9 CHOOL E	IEN
HIG DUS 215 F WAT HAMIL DRA EN PLA BAR	T COLLEC PARKSIDE DI ERDOWN, OI TON-WENTWOR WING: LARGED ANS : DE	TOR REPL RIVE NTARIO L8B TH DISTRICT SO	1B9 CHOOL E	IEN
HIG DUS 215 F WAT HAMIL DRA EN PLA	T COLLEC PARKSIDE DI ERDOWN, OI TON-WENTWOR WING: LARGED ANS : DE BA BA	TOR REPL RIVE NTARIO L8B TH DISTRICT SC PART F MOLITIC		
HIG DUS 215 F WAT HAMIL DRA EN PLA	T COLLEC PARKSIDE DI ERDOWN, OI TON-WENTWOR WING: LARGED ANS : DE BA BA BA	TOR REPL RIVE NTARIO L8B TH DISTRICT SO PART F MOLITIC		

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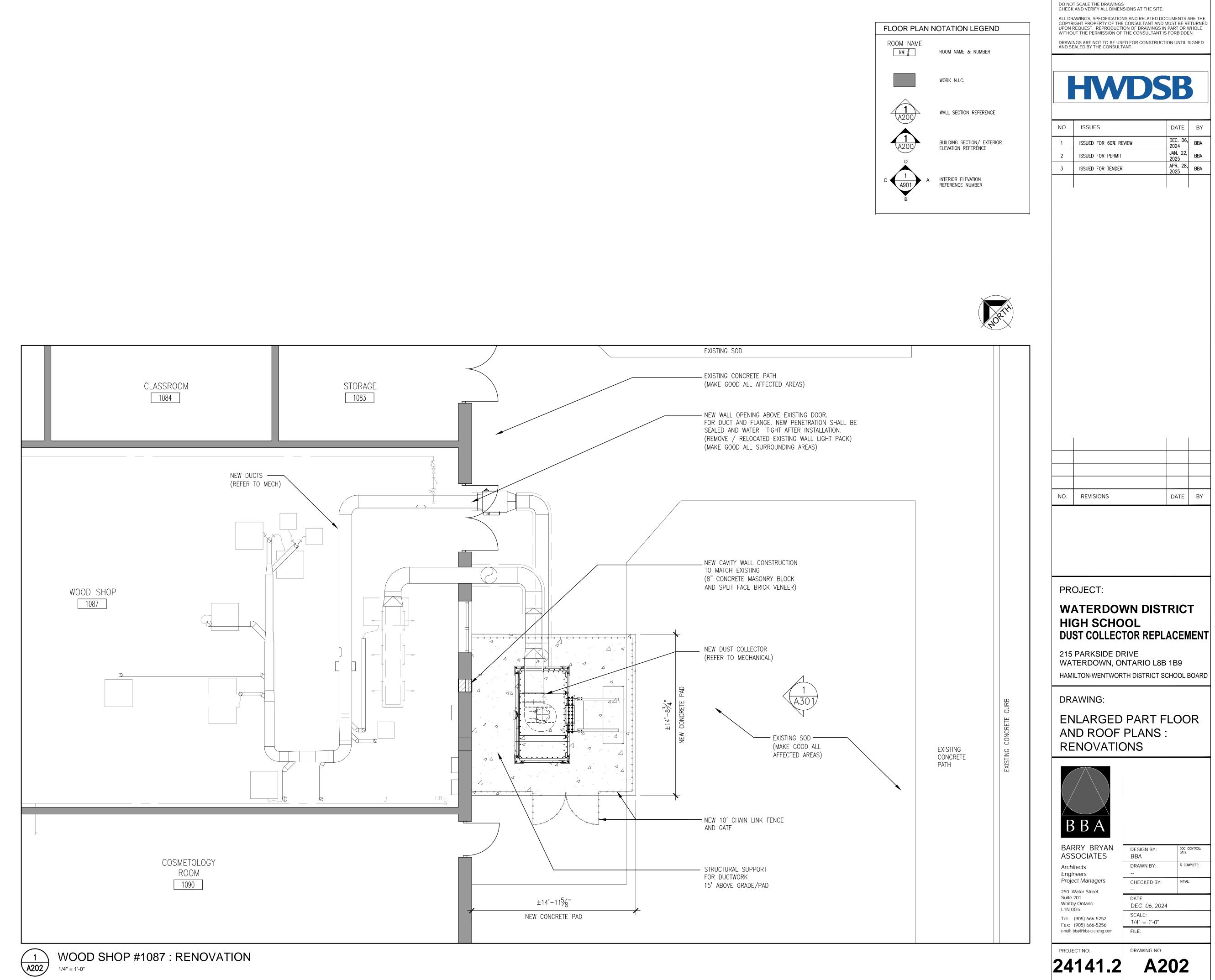




PHOTO-EL3

TYPICAL DEMOLITION NOTES DEMOLITION NOTES SITE VERIFY ALL DIMENSIONS AND CONDITIONS. (1) EXISTING CHAINLINK FENCE AND GATE TO BE REMOVED. ALL WORK TO BE IN ACCORDANCE WITH THE ONTARIO BUILDING CODE AND 2 EXISTING MECHANICAL DUST COLLECTOR AND DUCT WORK TO BE OCCUPATIONAL HEALTH AND SAFETY ACT REGULATIONS FOR REMOVED IN IT'S ENTIRETY. REFER TO MECHANICAL & ELECTRICAL. ALL CONSTRUCTION PROJECTS. FINISHES BY THE REMOVAL SHALL BE RESTORED TO EXISTING CONDITIONS. PROVIDE PROTECTION IN LOCATIONS APPROVED BY THE OWNER AND A EXISTING CONCRETE PAD TO BE REMOVED IN IT'S ENTIRETY. PATHWAY AND SOD TO BE PATCHED, REPAIRED AND MAKE GOOD CONSULTANT SO AS NOT TO DAMAGE EXISTING STRUCTURE, OR PART THEREOF. ALL AFFECTED SURFACES FOR NEW WORK. COMPLETE ALL DEMOLITION WORK NECESSARY TO COMPLETE THE 3B REMOVE EXISTING CONCRETE / SOD SURFACE AT EXTENT SHOWN. PATCH AND REPAIR ALL AFFECTED SURFACES FOR NEW WORK. RENOVATIONS AS SHOWN AND AS REQUIRED. DEMOLITION OF BUILDING ELEMENTS INCLUDES COMPLETE REMOVAL OF ALL ASSOCIATED FIXTURES, FITTINGS, HARDWARE, FASTENERS, EQUIPMENT AND ACCESSORIES UNLESS 4 EXISTING EXTERIOR WALL TO BE PROTECTED DURING NEW WORK. PATCH, REPAIR AND MAKE GOOD ALL AFFECTED SURFACES. NOTED OTHERWISE. ARCHITECTURAL, MECHANICAL AND ELECTRICAL DEMOLITION DRAWINGS ARE COMPLEMENTARY AND SHALL BE READ TOGETHER. 5 CUT EXISTING MASONRY CAVITY WALL FOR NEW MECHANICAL DUCT. (CO-ORDINATE WITH MECHANICAL FOR SIZE AND LOCATION) . NOTIFY CONSULTANT OF LOAD BEARING MEMBERS OR ASSEMBLIES IDENTIFIED OR DISCOVERED DURING WORK AND NOT INDICATED ON 6 EXISTING WINDOW TO BE PROTECTED DURING NEW WORK. PATCH, REPAIR AND MAKE GOOD ALL AFFECTED SURFACES. DRAWINGS. DO NOT PROCEED WITH REMOVALS WITHOUT PRIOR REVIEW BY THE CONSULTANT. PROVIDE TEMPORARY SUPPORT OF PIPES, DUCTS AND ELECTRICAL CHASES REMOVE FLANGED WALL PENETRATION AND MAKE GOOD SPLIT FACE MASONRY BLOCK TO MATCH EXISTING AFTER. AS REQUIRED FOR SAFE REMOVAL. EXISTING AND PROPOSED SUPPORTS ARE TO BE REVIEWED BY THE CONSULTANT PRIOR TO THE REMOVAL OF MAKE GOOD INTERIOR AREA FOR NEW PAINT FINISH. ANY COMPONENTS WHICH MAY FALL. OR CAUSE OTHERS TO FALL. 8 EXISTING DOOR AND FRAME TO BE PROTECTED DURING NEW WORK. PATCH, REPAIR AND MAKE GOOD ALL AFFECTED SURFACES. MAINTAIN WORK AREAS AND STORAGE AREAS CLEAN AND ORDERLY AT ALL TIMES. DEMOLITION LEGEND 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. EXISTING DOOR, FRAME AND TRIM TO REMAIN 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 / EXISTING DUST COLLECTOR UNIT AND CONCRETE HANDOVER WITH OWNER. PAD TO BE REMOVED. 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. FLOOR PLAN NOTATION 17. CONSTRUCTION AREA TO BE SECURED AT ALL TIMES. 18. WHERE EXISTING CONSTRUCTION IS FOUND TO CONTAIN ANY HAZARDOUS ROOM NAME MATERIAL, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE OWNER AND THE CONSULTANT IN WRITING. NOTE: REMOVAL, DISPOSAL AND RM # ROOM NAME & NUMBER REPLACEMENT OF THE HAZARDOUS MATERIAL SHALL BE IN ACCORDANCE WITH PROVINCE, LOCAL AND FEDERAL REGULATIONS. DESIGNATED 1 (A200) SUBSTANCE SURVEY WAS COMPLETED NO CONCERNS WERE IDENTIFIED. WALL SECTION REFERENCE 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. (1) (A200)

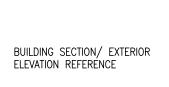
20. COORDINATE ALL DEMOLITION WORK WITH ABATEMENT AND HAZARDOUS REMOVALS IDENTIFIED IN ASBESTOS ABATEMENT SPECIFICATION. BIN LOCATIONS (CITY APPROVAL)

PART EAST ELEVATION - DEMO A301 1/4" = 1'-0"

SOUND ATTENUATION-

EXHAUST SILENCER -

FAN CABINET



REFERENCE NUMBER

A901

INTERIOR ELEVATION

DENOTES DEMOLITION OF BUILDING ELEMENT

EXISTING WALL, PARTITION OR COLUMN

PHOTO-EL2

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	NO. ISSUES DATE BY 1 ISSUED FOR PERMIT JAN, 22, BBA 2025 BBA 2 ISSUED FOR TENDER APR, 28, BBA BBA 1 ISSUED FOR TENDER APR, 28, BBA BA 1 ISSUED FOR TENDER APR, 28, BBA BA 1 ISSUED FOR TENDER APR, 28, BBA BA
PHOTO-EL1	Image:
	215 PARKSIDE DRIVE WATERDOWN, ONTARIO L8B 1B9 HAMILTON-WENTWORTH DISTRICT SCHOOL BOARD DRAWING: #1087 WOOD SHOP ELEVATION - DUST COLLECTOR Image: Collector Image:
	250 Water Street Suite 201 Whitby Ontario L1N 0G5 Tel: (905) 666-5252 Fax: (905) 666-5256 e-mail: bba@bba-archeng.com PROJECT NO: PROJECT NO: DRAWING NO: A301

NEW CAVITY WALL CONSTRUCTION TO MATCH EXISTING

 $\langle 3 \rangle$

CONCRETE SLAB FOR -----

MECHANICAL DUCT

(REFER TO STRUCT)

PART EAST ELEVATION - RENO

COLLECTOR

A301

(4A)-

 $\langle 4 \rangle$

1/4" = 1'-0"

SONOTUBE FOUNDATION-

(4B)

(REFER TO STRUCT)

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

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 SHALL BE ADDED AT THE JOB SITE. CONCRETE 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

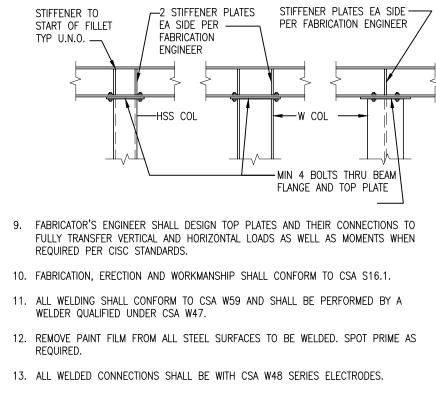
1. THE CLEAR DISTANCE BETWEEN REINFORCING STEEL AND SURFACE OF CONCRETE SHALL BE AS FOLLOWS UNLESS NOTED OTHERWISE.

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.

STRUCTURAL STEEL

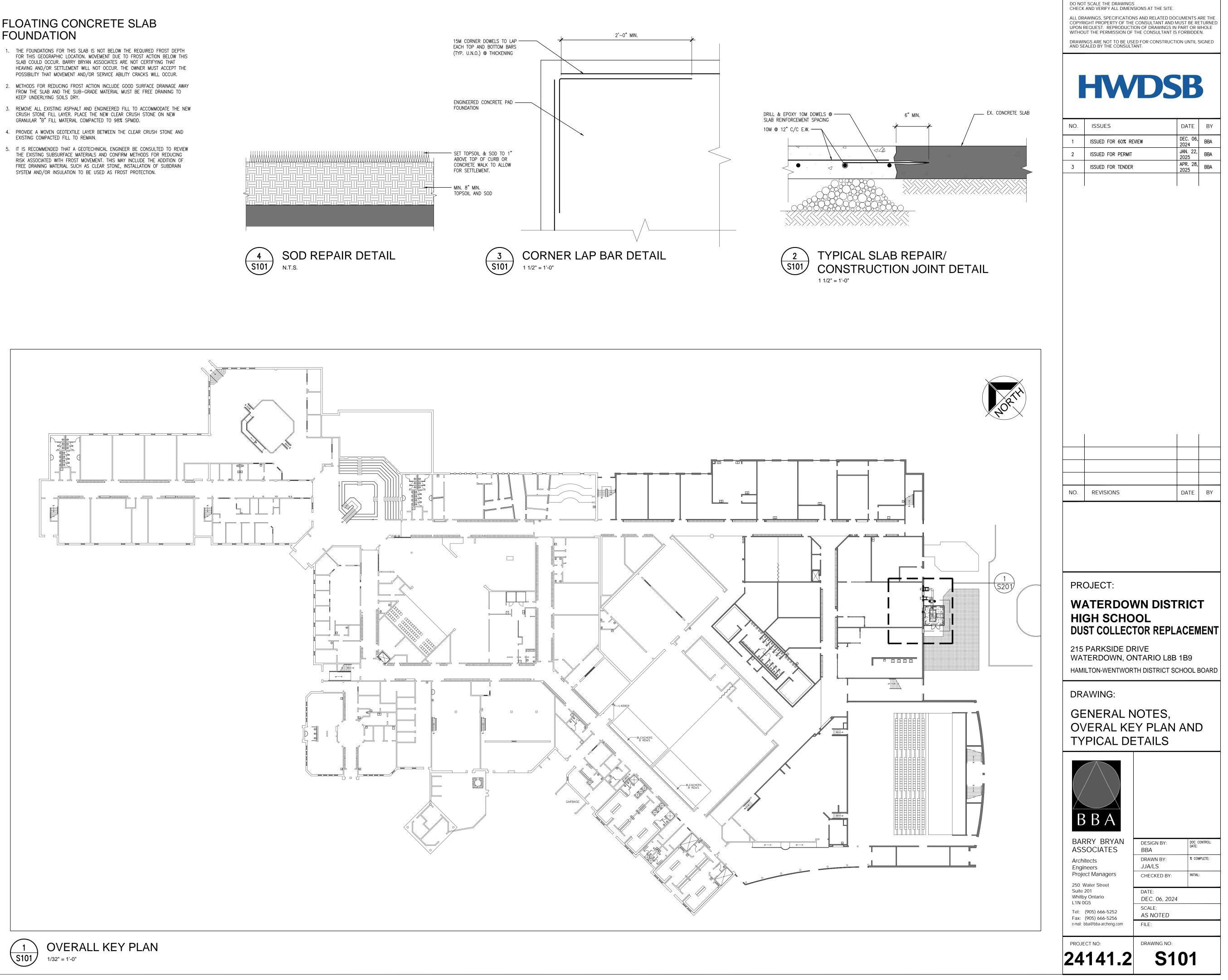
- 1. ALL STRUCTURAL STEEL HSS AND W SECTIONS TO BE G40.21M-350W CLASS C. ALL OTHERS TO BE G40.21M-300W.
- 2. DESIGN FORCES INDICATED ON DRAWINGS FOR STRUCTURAL STEEL WORK ARE UN-FACTORED FORCES UNLESS NOTED OTHERWISE.
- 3. ALL CONNECTIONS TO BE DESIGNED BY FABRICATOR UNLESS NOTED OTHERWISE. ALL BEAM 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:



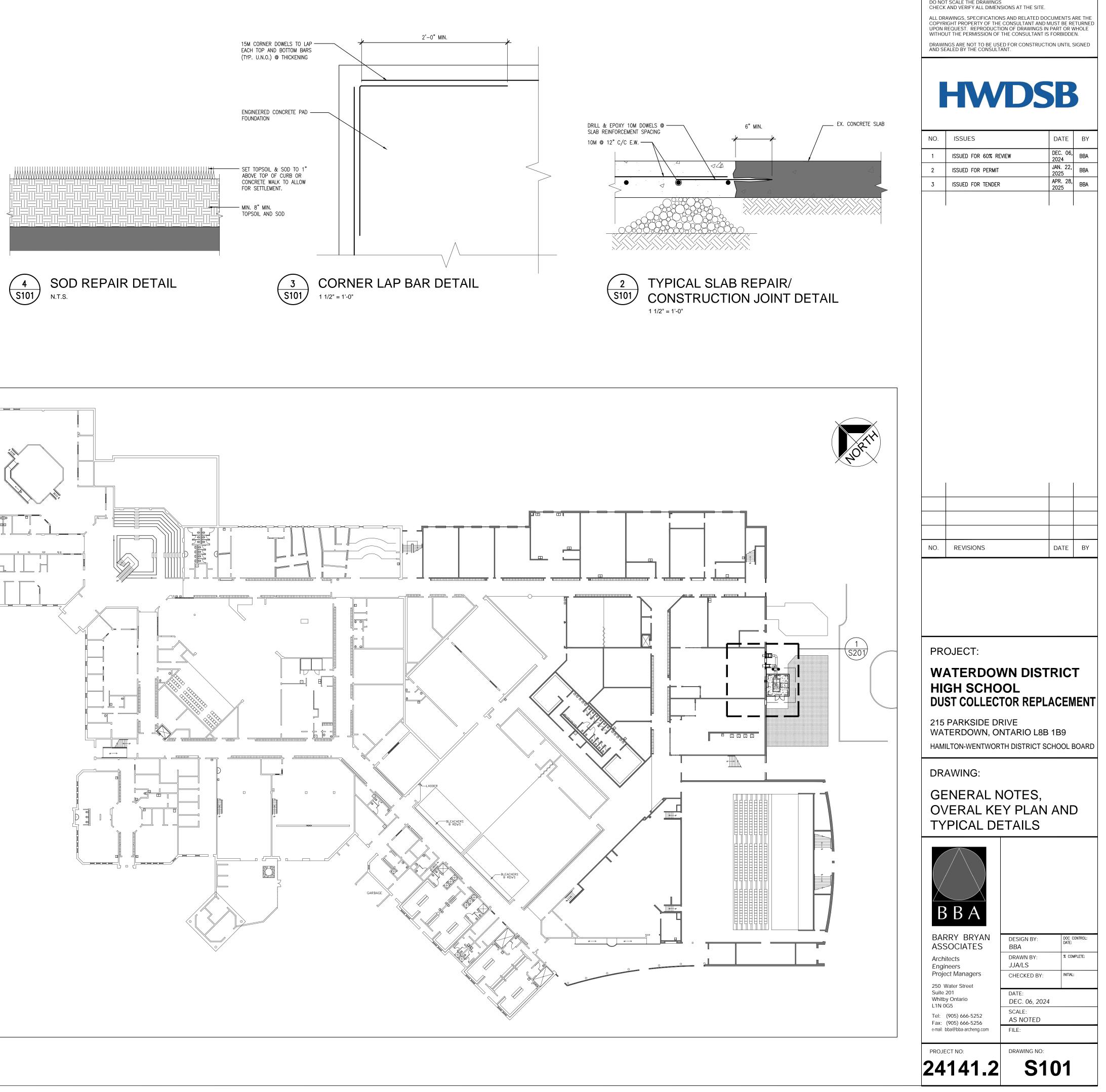
- 14. PROVIDE DRAINAGE HOLES TO ARCHITECT'S APPROVAL IN ALL EXPOSED EXTERIOR HSS FRAMING.
- 15. PROVIDE CAP PLATES ON ALL HSS FRAMING MEMBERS UNLESS NOTED OTHERWISE. 16. DO NOT CUT OR CORE ANY OPENINGS IN ANY STRUCTURAL STEEL MEMBERS
- WITHOUT PRIOR APPROVAL FROM THE STRUCTURAL ENGINEER.
- 17. WHERE 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 COST
- 18. ALL EXPOSED STEEL SHALL BE HOT DIP GALVANIZED.

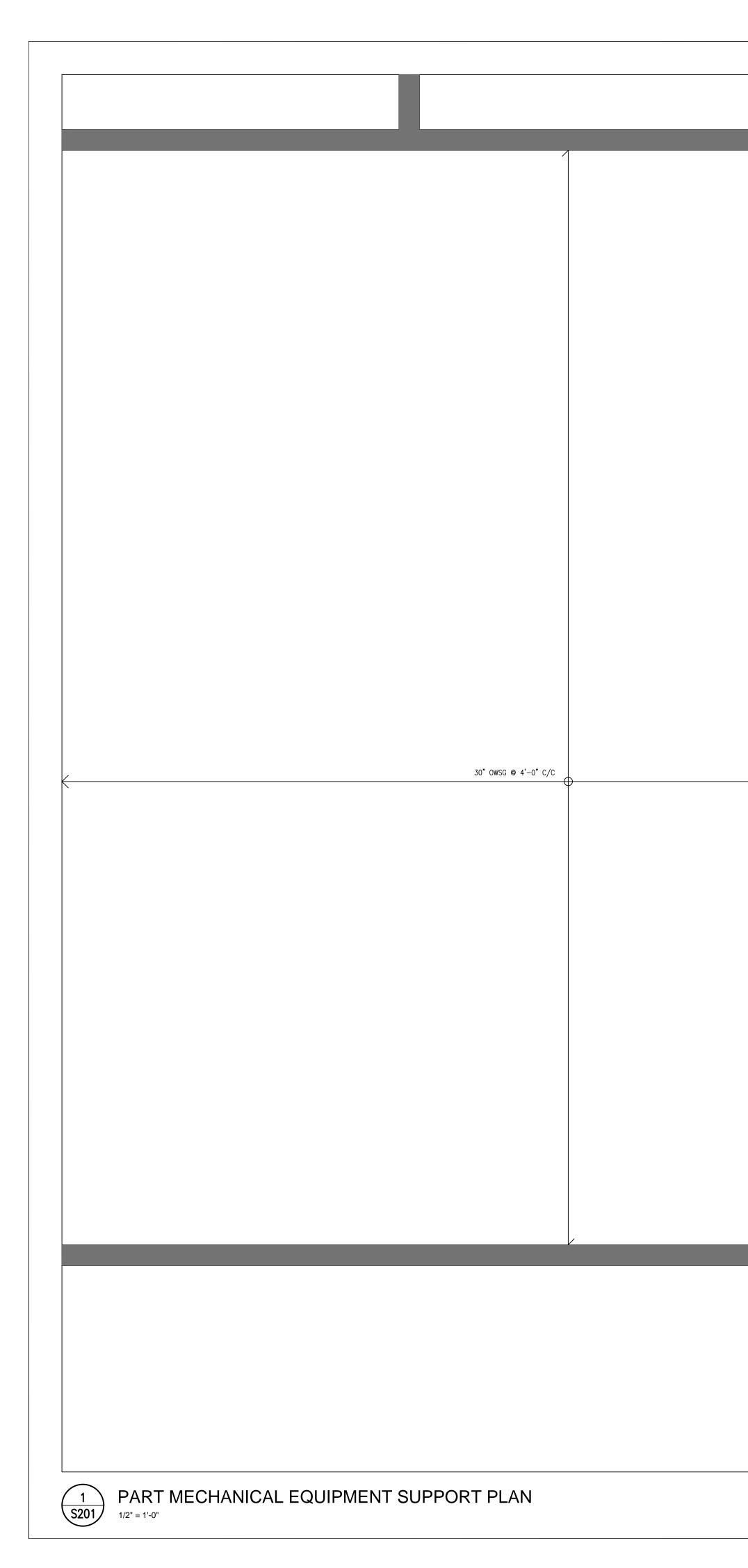
FLOATING CONCRETE SLAB FOUNDATION

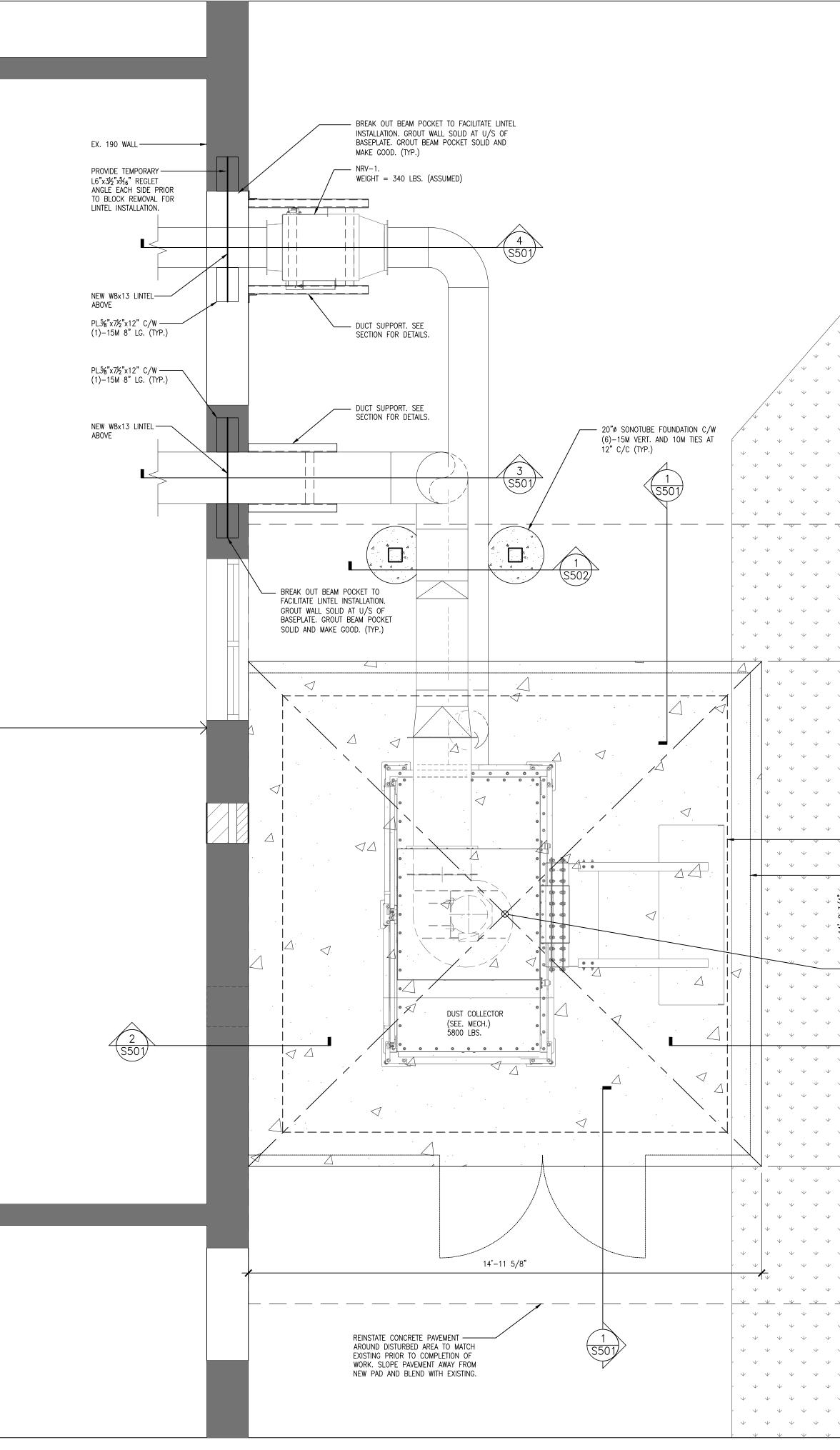
- 1. THE FOUNDATIONS FOR THIS SLAB IS NOT BELOW THE REQUIRED FROST DEPTH FOR THIS GEOGRAPHIC LOCATION. MOVEMENT DUE TO FROST ACTION BELOW THIS SLAB COULD OCCUR. BARRY BRYAN ASSOCIATES ARE NOT CERTIFYING THAT HEAVING AND/OR SETTLEMENT WILL NOT OCCUR. THE OWNER MUST ACCEPT THE POSSIBILITY THAT MOVEMENT AND/OR SERVICE ABILITY CRACKS WILL OCCUR.
- FROM THE SLAB AND THE SUB-GRADE MATERIAL MUST BE FREE DRAINING TO KEEP UNDERLYING SOILS DRY.
- 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.
- 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.









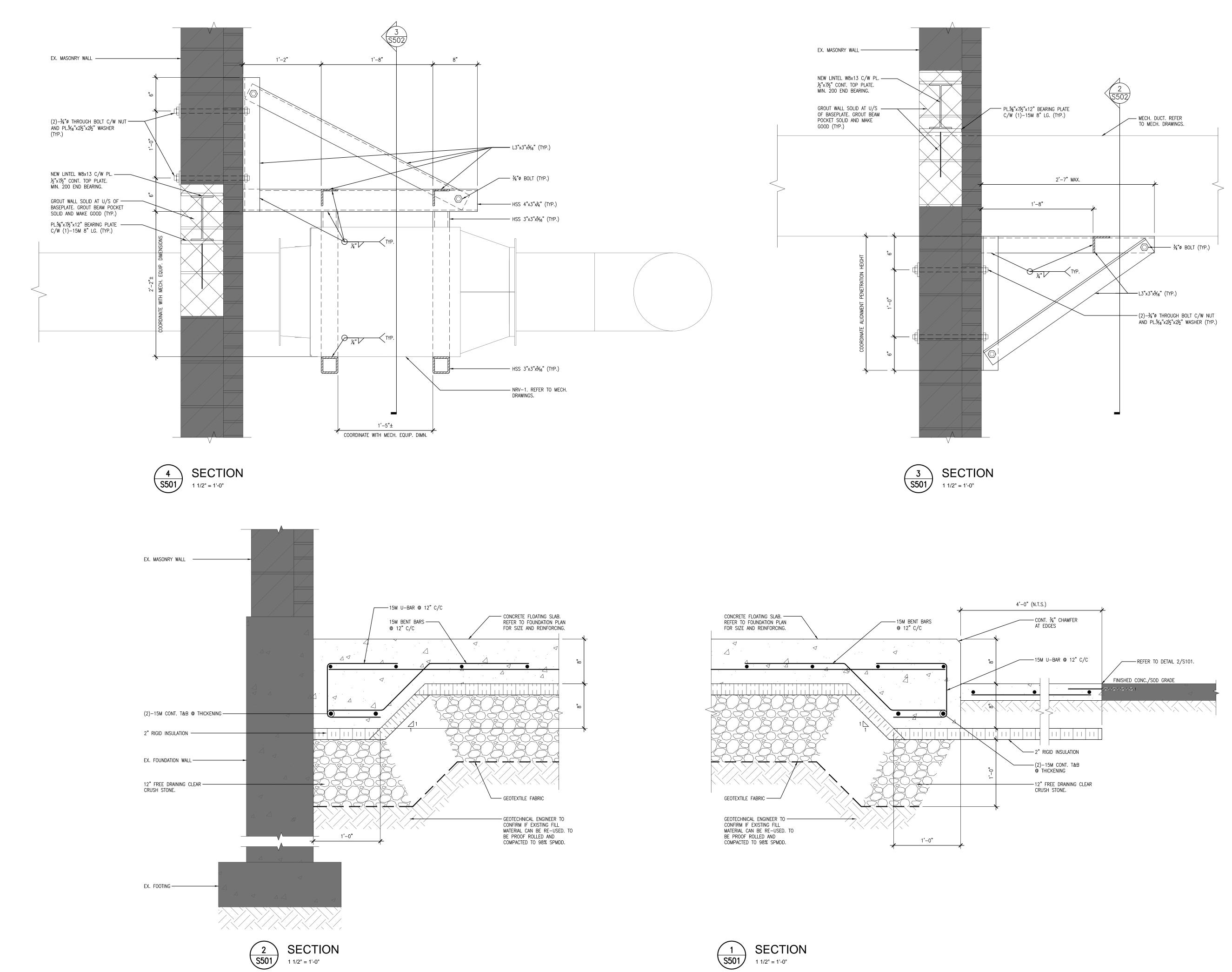




 $\forall \quad \forall$ \vee \vee \checkmark \checkmark \checkmark \vee \vee \vee \vee \vee \vee \checkmark ψ ψ ψ ψ \vee \vee - EXISTING GRASS SURFACING. CUT $\vee \quad \vee$ AND EXCAVATE AROUND NEW PAD AS \checkmark \checkmark \vee \vee \vee * REQUIRED TO ACCEPT THE SUB-BASE \vee \vee $^{\vee}$ $^{\vee}$ and concrete profile typ. All $^{\vee}$ $^{\vee}$ $^{\vee}$ $\forall \quad \forall \quad \forall \quad \forall$ $_{\rm V}$ $_{\rm V}$ AROUŅD PAD, EXTENŢS. \checkmark ψ ψ ψ ψ ψ ψ \vee \vee \vee \vee REINSTATE GRASS AROUND DISTURBED AREA TO MATCH EXISTING PRIOR TO COMPLETION OF WORK. SLOPE GRASS V AWAY FROM NEW PAD AND BLEND \checkmark WITH EXISTING. $\checkmark \qquad \checkmark$ $\forall \forall$ - PERIMETER SLAB THICKENING REFER TO SECTION FOR DETAILS. \checkmark $\forall \quad \forall$ ¬→ FENCE C/W GATE (REFER TO SPECIFICATIONS) FLOATING CONCRETE SLAB 15M BARS @ 12" C/C B.E.W. V V I V NEW

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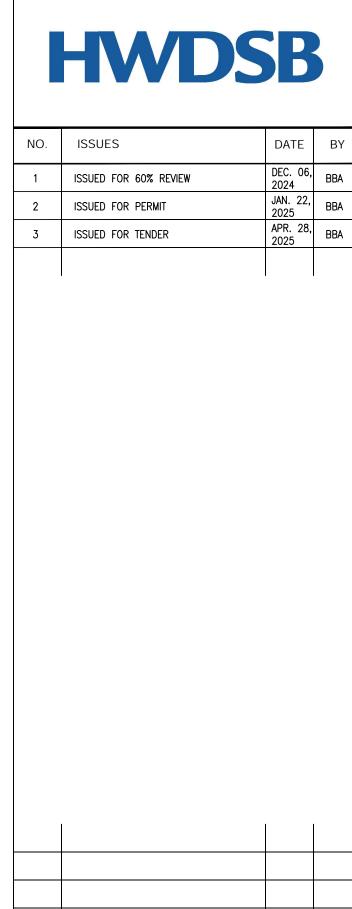
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SE	CTIONS			
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ASS	RRY BRYAN SOCIATES	DESIGN BY: BBA	DATE:	CONTROL:
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Suite Whitb	y Ontario	DATE: JANUARY 202	5	
	(905) 666-5252 (905) 666-5256	SCALE: AS NOTED		
e-mail:	bba@bba-archeng.com	FILE:		

PROJECT NO:

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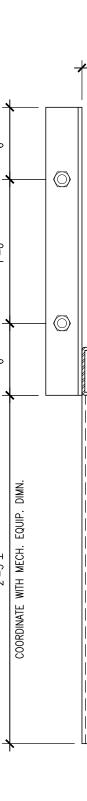
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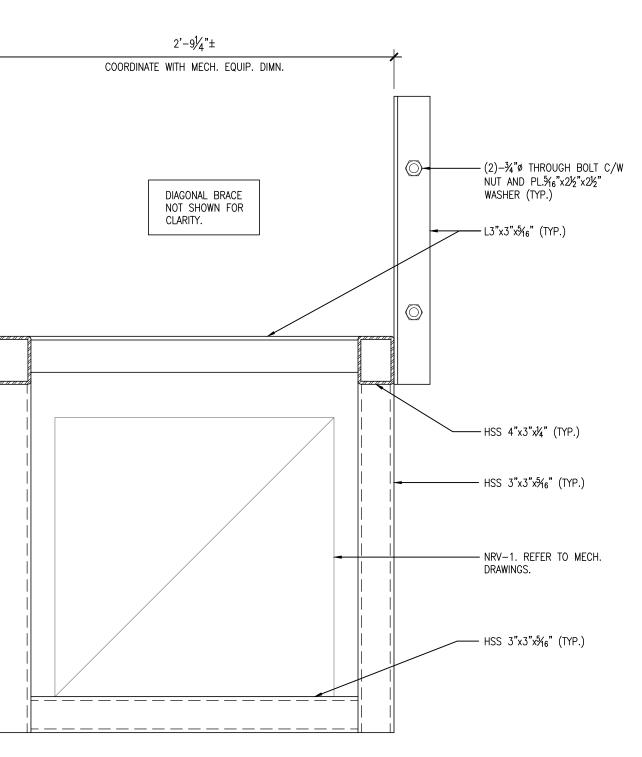
S501



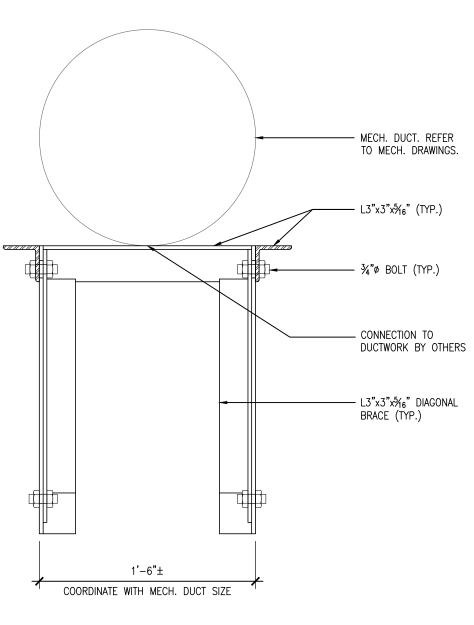
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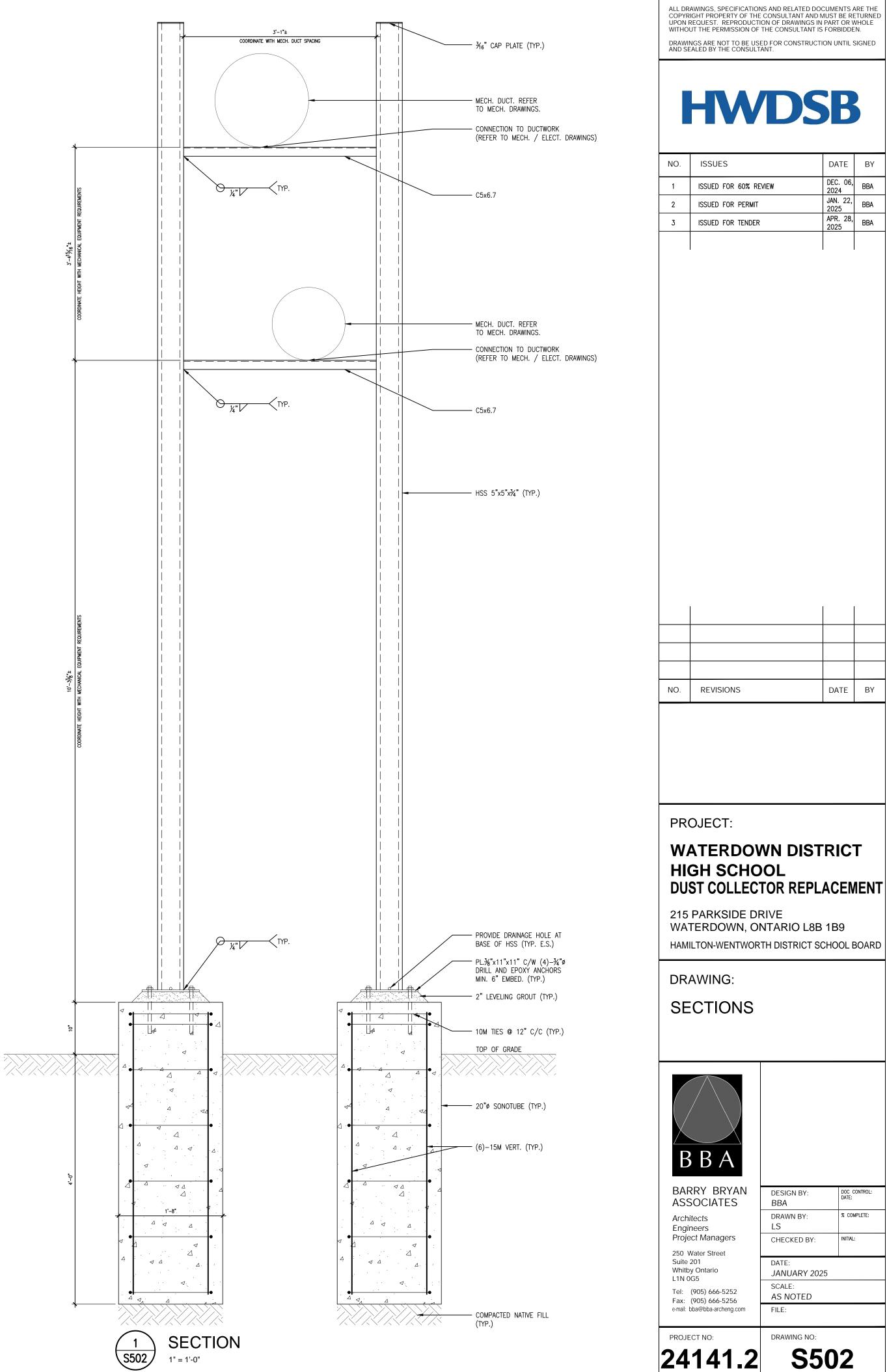








MECH. DUCT. REFER
 TO MECH. DRAWINGS.



1" = 1'-0"

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

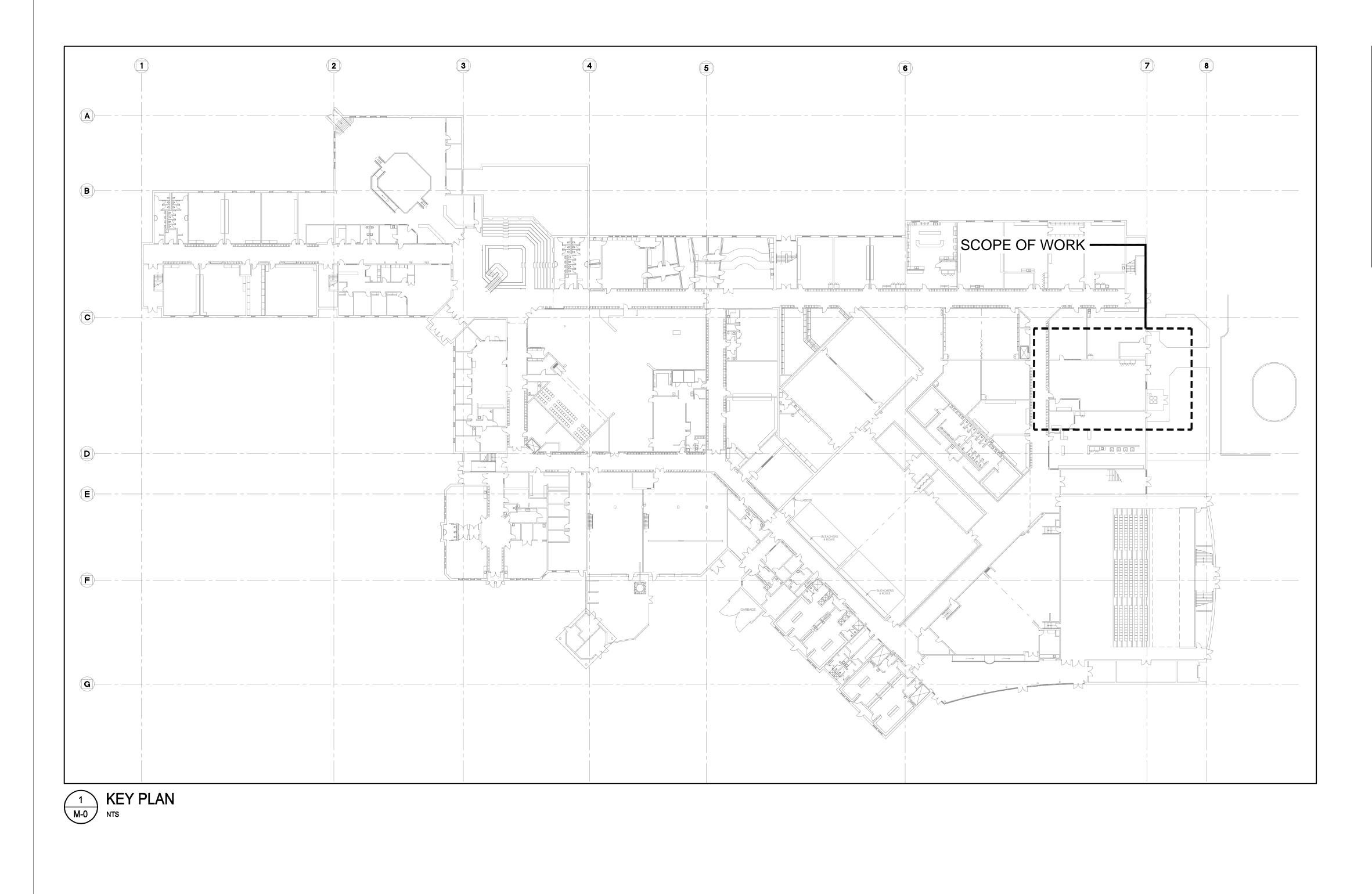
215 PARKSIDE DRIVE WATERDOWN, ONTARIO L8B 1B9 HAMILTON-WENTWORTH DISTRICT SCHOOL BOARD DRAWING:

SECTIONS BB/ BARRY BRYAN DESIGN BY: BBA DOC CONTROL: DATE: ASSOCIATES % COMPLETE: DRAWN BY: LS Engineers Project Managers CHECKED BY: INITIAL: 250 Water Street Suite 201 Whitby Ontario DATE: JANUARY 2025 SCALE: Tel: (905) 666-5252 AS NOTED Fax: (905) 666-5256 e-mail: bba@bba-archeng.com FILE:

DRAWING NO:

S502

24141.2



DUST COLLECTOR REPLACEMENT WATERDOWN DISTRICT HIGHSCHOOL WATERDOWN, ON

MECHANICAL DRAWINGS



This drawing is the property of GIALLONARDO ENGINEERING INC.

This drawing shall be read in conjunction with the architectural, structural, electrica 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.



NO.	ISSUES	DATE	BY
1	ISSUED FOR 60% REVIEW	DEC. 04 2024	JH
2	ISSUED FOR EQUIPMENT PURCHASE	DEC. 27 2024	JH
3	ISSUED FOR PERMIT	JAN. 23 2025	JH
4	ISSUED FOR TENDER	APR. 17 2025	SW

NO.	REVISIONS	DATE	BY

PROJECT:

WATERDOWN DISTRICT **HIGH SCHOOL** DUST COLLECTOR REPLACEMENT

215 PARKSIDE DRIVE WATERDOWN, ONTARIO L8B 1B9 HAMILTON WENTWORTH DISTRICT SCHOOL BOARD

DRAWING:

TITLE SHEET



Architects Engineers Project Managers

250 Water Street Suite 201 Whitby Ontario L1N 0G5

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



SW	DATE:
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DATE:	
SEPTEMBER 2024	1
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DRAWING NO:

PROJECT NO: 24154B

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

	HVAC LEGEND
	EXISTING DUCTWORK/EQUIPMENT
	EXISTING DUCTWORK/EQUIPMENT TO BE REMOVED
	NEW RIGID DUCTWORK
	EXISTING FLEXIBLE DUCTWORK
\langle	NEW FLEXIBLE DUCTWORK
	SUPPLY AIR DUCTWORK UP
\mathbf{X}	SUPPLY AIR DUCTWORK DOWN
	RETURN AIR DUCTWORK UP
\square	RETURN AIR DUCTWORK DOWN
S/A	'SUPPLY AIR'
R/A	'RETURN AIR'
F/D	'FIRE DAMPER'
LвD	'BALANCING DAMPER'
BDD	'BACKDRAFT DAMPER'
¶ м∕р	'MOTORIZED DAMPER'
<u> </u>	SQUARE SUPPLY AIR DIFFUSER
	SUPPLY AIR GRILLE
	RETURN AIR GRILLE
	SLOT DIFFUSER
Θ	
©	CARBON DIOXIDE SENSOR
©	CARBON MONOXIDE DETECTOR
©	ZONE SENSOR
<u>\$</u> A-6"ø	WALL SWITCH DIFF TYPE/SIZE
150CFM	AIR CAPACITY
TYP.	'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
$\overline{7}$	DRAWING NOTE
	ROUND SUPPLY AIR DIFFUSER
	LOUVERED FACE SUPPLY/RETURN GRILLE
	CAP ON DUCTWORK
▼	BRANCH ON DUCTWORK
·	

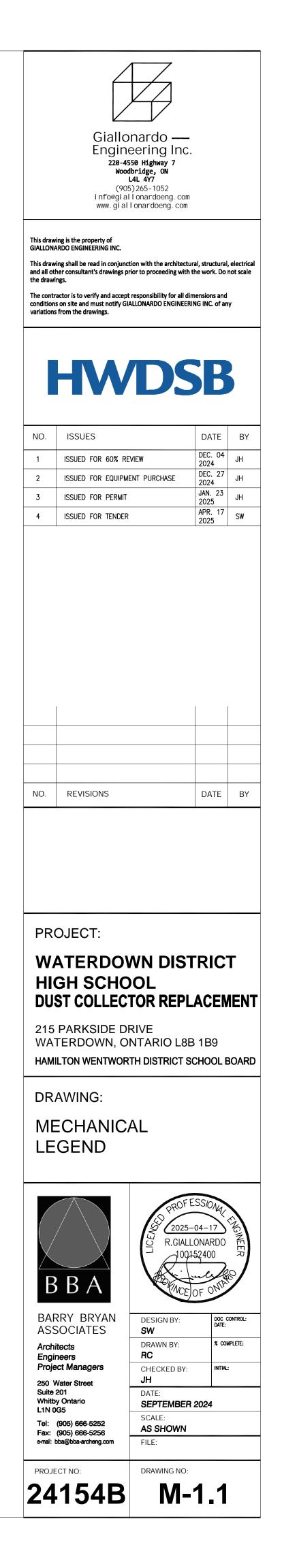
	PIPING LEGEND
— EX.HWS ——	EXISTING HEATING WATER SUPPLY
— EX.HWR — —	EXISTING HEATING WATER RETURN
— HWS ——	HEATING WATER SUPPLY
— HWR — —	HEATING WATER RETURN
-EX.CHWS —	EXISTING CHILLED WATER SUPPLY
-EX.CHWR	EXISTING CHILLED WATER RETURN
— CHWS ——	CHILLED WATER SUPPLY
— CHWR — —	CHILLED WATER RETURN
— 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
必	3-PORT CONTROL VALVE
困	2-WAY CONTROL VALVE
×	GATE VALVE
X	GLOBE VALVE
Ñ	CHECK VALVE
CBV	CIRCUIT BALANCING VALVE
×	BALL VALVE
کر	SAFETY RELIEF VALVE
Þ	STRAINER
ıļι	UNION
-Þ-	CONCENTRIC REDUCER
-6-	ECCENTRIC REDUCER
N.O.	'NORMALLY OPEN'
N.C.	'NORMALLY CLOSED'
Ŷ	PRESSURE GAUGE
	THERMOMETER
Ŷ	AQUASTAT
PRV	PRESSURE REDUCING VALVE
VB	VACUUM BREAKER
NN	BACKFLOW PREVENTER
FS 💋	FLOW SWITCH
AAV Ū	AUTOMATIC AIR VENT
LWCO	LOW WATER CUT-OFF
¥	PLUG/COCK VALVE
N	BUTTERFLY VALVE
Ų	TEST PORT
$\bigcirc$	PUMP
CAP 🗖	CAP ON PIPING
$\langle  \rangle$	DRAWING NOTE
×	ISOLATION VALVE
HB +	HOSE BIBB

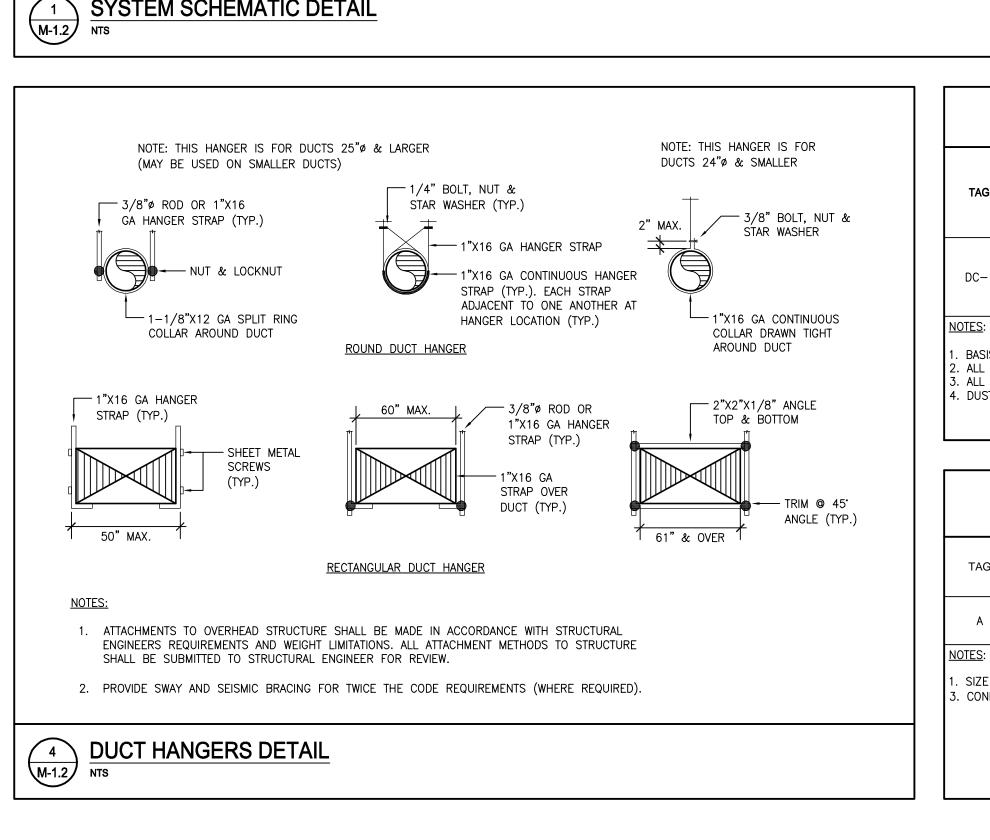
### PLUMBING LEGEND

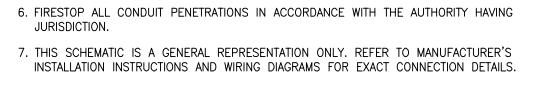
- LX.SAN -         EXISTING UNDERGROUND SANITARY DRAINAGE PIPING           - SAN -         UNDERGROUND SANITARY DRAINAGE PIPING           - SAN -         UNDERGROUND SANITARY DRAINAGE PIPING           - EX.STM -         EXISTING ABOVE GROUND STORM DRAINAGE PIPING           - EX.STM -         EXISTING ABOVE GROUND STORM DRAINAGE PIPING           - STM -         EXISTING ABOVE GROUND STORM DRAINAGE PIPING           - STM -         UNDERGROUND STORM DRAINAGE PIPING           - STM -         UNDERGROUND STORM DRAINAGE PIPING           - STM -         UNDERGROUND VENT PIPING           - STM -         EXISTING ABOVE GROUND VENT PIPING		
SAN         AROVE GROUND SANITARY DRAINAGE PIPING           SAN         UNDEROROUND SANITARY DRAINAGE PIPING           EX.STM         EX.STMS ABOVE GROUND STORM DRAINAGE PIPING           STM         ABOVE GROUND VENT PIPING           STM         EXISTING ABOVE GROUND VENT PIPING           STM         DAMESTIC COLD WATER PIPING           STM         EXISTING DAMESTIC HOT WATER RETURN PIPING           STM         EXISTING GAMESTIC HOT WATER RETURN PIPING           STM         EXISTING GAS PIPING           STMITARY PIPINES	—— EX.SAN ——	EXISTING ABOVE GROUND SANITARY DRAINAGE PIPING
→ SAN         UNDERGROUND SANTARY DRAINAGE PIPING           → EX.STM         EXISTING ABOVE GROUND STORM DRAINAGE PIPING           → EX.STM         EXISTING UNDERGROUND STORM DRAINAGE PIPING           → STM         ABOVE GROUND STORM DRAINAGE PIPING           → STM         ABOVE GROUND STORM DRAINAGE PIPING           → EXIV         EXISTING UNDERGROUND VENT PIPING           → EXIV         EXISTING UNDERGROUND VENT PIPING           → V         ABOVE GROUND VENT PIPING           → COD         EXISTING CONDENSATE DRAINAGE PIPING           → COD         EXISTING DOMESTIC COLD WATER PIPING           → DOMESTIC HOT WATER RETURN PIPING         → DOMESTIC HOT WATER RETURN PIPING           → EXISTING DOMESTIC HOT WATER RETURN PIPING         → DOMESTIC HOT WATER RETURN PIPING           → EXISTING CONDENCIC HOT WATER RETURN PIPING         → DOMESTIC HOT WATER RETURN PIPING           → EXISTING DOMESTIC HOT WATER RETURN PIPING         → DOMESTIC HOT WATER RETURN PIPING           → EXISTING PIPING/EQUIPMENT TO BE REMOVED         → DOMESTIC HOT WATER RETURN PIPING           → FIFT <th>— — EX.SAN — —</th> <th>EXISTING UNDERGROUND SANITARY DRAINAGE PIPING</th>	— — EX.SAN — —	EXISTING UNDERGROUND SANITARY DRAINAGE PIPING
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	— — EX.STM — —	EXISTING UNDERGROUND STORM DRAINAGE PIPING
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→ V         ABOVE GROUND VENT PIPING          V	—— EX.V ——	EXISTING ABOVE GROUND VENT PIPING
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EXISTING DOMESTIC COLD WATER PIPING         ODMESTIC COLD WATER PIPING         EXISTING DOMESTIC HOT WATER PIPING         DOMESTIC HOT WATER PIPING         EXISTING DOMESTIC HOT WATER RETURN PIPING         DOMESTIC HOT WATER RETURN PIPING         EXISTING CAS PIPING         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         Image: Piping         GAS COCK VALVE         FD ● FFD       FLOOR DRAIN/FUNNEL FLOOR DRAIN         HD 0       HUB DRAIN         AD 0       AREA DRAIN         CD 0       DOMED CLEANOUT         CD 0       EXISTING PIPING         Image: Piping       EXISTING PIPING         Image: Piping       EXISTING PIPING/EQUIPMENT TO BE REMOVED         SSSS       HEAT TRACING ON PIPE         Image: Piping       CAS COCK VALVE         FD ● FFD       FLOOR DRAIN/FUNNEL FLOOR DRAIN         Image: Piping       CAS COCK VALVE         FD ● FFD       FLOOR DRAIN         CD Image: Piping       CAS COCK VALVE         CD Image: Piping	—— EX.CD ——	EXISTING CONDENSATE DRAINAGE PIPING
□OMESTIC COLD WATER PIPING         □OMESTIC COLD WATER PIPING         □CHENESTIC HOT WATER PIPING         □CHENESTIC HOT WATER RETURN PIPING         □CHENESTIC EAS PIPING         □CHENESTIC EAS PIPING         □CHENESTIC EAS PIPING         □CHENESTIC EAS PIPING         □CHENESTIC CONTINUATION OF DUCTWORK/PIPING         □CHENESTIC EAS PIPING         □CHENESTIC EASTING DO PIPE         □CHENESTIC EASTING PIPING/EQUIPMENT TO BE REMOVED         □CHENESTIC EASTING PIPINE/ELOOR DRAIN         ID ● FFD       FLOOR DRAIN/FUNNEL FLOOR DRAIN         ID ● FFD       FLOOR DRAIN/FUNNEL FLOOR DRAIN         ID ● HUB DRAIN       EXESTING PIPINE         CO □ □ ● EXESTINE CLEANOUT       EXESTINE	CD	CONDENSATE DRAINAGE PIPING
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DOMESTIC HOT WATER PIPING         ■       EXISTING DOMESTIC HOT WATER RETURN PIPING         ■       DOMESTIC HOT WATER RETURN PIPING         ■       EXISTING GAS PIPING         ■       EXISTING GAS PIPING         ■       C         LOW PRESSURE GAS PIPING         ■       HIGH PRESSURE GAS PIPING         ■       HIGH PRESSURE GAS PIPING         ■       HIGH PRESSURE GAS PIPING         ■       EXISTING PIPING/EQUIPMENT TO BE REMOVED         SSS       HEAT TRACING ON PIPE         ■       CONTINUATION OF DUCTWORK/PIPING         ■       GAS COCK VALVE         FD ● FFD       FLOOR DRAIN/FUNNEL FLOOR DRAIN         HD 0       HUB DRAIN         AD 10       AREA DRAIN         RD 10       HUB DRAIN         CO 10       HEIED CLEANOUT         CO 11       EXPOSED CLEANOUT         CO 11       EXPOSED CLEANOUT         Q* 3       SANITARY 'P' TRAP         ICO 1       PIPE DOWN         VENT THROUGH ROOF       CAP ON PIPING         Q* 1       DRAWING NOTE         ISOLATION VALVE       PIPING NOTE         ISOLATION VALVE       PIPING DROPDOWN		DOMESTIC COLD WATER PIPING
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DOMESTIC HOT WATER RETURN PIPING            — EX.G        EXISTING GAS PIPING            — G        LOW PRESSURE GAS PIPING            — HPG        HIGH PRESSURE GAS PIPING            — HPG        HIGH PRESSURE GAS PIPING            — EXISTING PIPING/EQUIPMENT TO BE REMOVED         SSSS       HEAT TRACING ON PIPE            — CONTINUATION OF DUCTWORK/PIPING            ↓        GAS COCK VALVE            FD         ● FFD        FLOOR DRAIN/FUNNEL FLOOR DRAIN            HD         O        HUB DRAIN            AREA DRAIN            RO        GASCOCK VALVE            FD           FLOOR DRAIN/FUNNEL FLOOR DRAIN            HD         O           HUB DRAIN             AREA DRAIN             RO             CO             BURIED CLEANOUT             CO             Q             CAP             LOOP             Q         Q             SANITARY 'P' TRAP             LOD IVIN             VENT THROUGH ROOF        <		DOMESTIC HOT WATER PIPING
EX.G       EXISTING GAS PIPING         G       LOW PRESSURE GAS PIPING         HPG       HIGH PRESSURE GAS PIPING         EXISTING PIPING/EQUIPMENT TO BE REMOVED         SSS       HEAT TRACING ON PIPE         CONTINUATION OF DUCTWORK/PIPING         I       GAS COCK VALVE         FD ● FFD       FLOOR DRAIN/FUNNEL FLOOR DRAIN         HD ●       HUB DRAIN         AD ●       AREA DRAIN         RD ●       ROOF DRAIN         CO I       BURIED CLEANOUT         CO I       EXPOSED CLEANOUT         Q' ●       SANITARY 'P' TRAP         I       VENT THROUGH ROOF         VTR       VENT THROUGH ROOF         Q' ●       DRAWING NOTE         I       SOLATION VALVE         I       SOLATION VALVE		EXISTING DOMESTIC HOT WATER RETURN 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         Image: Continuation of Ductwork/PIPING         Continuation of Drain         Image: Continuation of Drain         Image: Continuation of Drain         Image: Continuation of Drain		DOMESTIC HOT WATER RETURN PIPING
HIGH PRESSURE GAS PIPING          EXISTING PIPING/EQUIPMENT TO BE REMOVED         SSSS       HEAT TRACING ON PIPE          CONTINUATION OF DUCTWORK/PIPING         Image: Transmission of Ductwork of Dransmission of Ductwork of Ductwo	—— EX.G ——	EXISTING GAS PIPING
EXISTING PIPING/EQUIPMENT TO BE REMOVED         SSSS       HEAT TRACING ON PIPE          CONTINUATION OF DUCTWORK/PIPING         Image: PD • FFD       GAS COCK VALVE         FD • FFD       FLOOR DRAIN/FUNNEL FLOOR DRAIN         HD •       HUB DRAIN         AD Ø       AREA DRAIN         RD ♥       ROOF DRAIN         CO □       BURIED CLEANOUT         CO □       BURIED CLEANOUT         CO □       EXPOSED CLEANOUT         Image: PIPE UP       PIPE UP         Image: PIPE UP       PIPE UP         Image: PIPE UP       PIPE DOWN         Image: VTR       VENT THROUGH ROOF         Image: Image: PIPE IP       Image: PIPE IP         Image: Image: PIPE IP       Image: PIPE IP         Image: Im	G	LOW PRESSURE GAS PIPING
SSSS       HEAT TRACING ON PIPE         Image: Continuation of Ductwork/PIPING         Image: Continuation of Ductwork	HPG	HIGH PRESSURE GAS PIPING
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Image: First organization of the second	SSSS	HEAT TRACING ON PIPE
FD ● FFD       FLOOR DRAIN/FUNNEL FLOOR DRAIN         HD ●       HUB DRAIN         AD ●       AREA DRAIN         RD ●       ROOF DRAIN         CB●       CATCH BASIN         C0 ●       BURIED CLEANOUT         C0 ●       BURIED CLEANOUT         C0 ●       BURIED CLEANOUT         C0 ●       PIPE DEVP         ◇●       PIPE DOWN         VTR       VENT THROUGH ROOF         CAP □       CAP ON PIPING         〈⑦       DRAWING NOTE         ◇       PIPING DROPDOWN		CONTINUATION OF DUCTWORK/PIPING
FD ● FFD       FLOOR DRAIN/FUNNEL FLOOR DRAIN         HD ●       HUB DRAIN         AD ●       AREA DRAIN         RD ●       ROOF DRAIN         CB●       CATCH BASIN         C0 ●       BURIED CLEANOUT         C0 ●       BURIED CLEANOUT         C0 ●       BURIED CLEANOUT         C0 ●       PIPE DEVP         ◇●       PIPE DOWN         VTR       VENT THROUGH ROOF         CAP □       CAP ON PIPING         〈⑦       DRAWING NOTE         ◇       PIPING DROPDOWN	Ŧ	GAS COCK VALVE
AD ☑       AREA DRAIN         RD ♣       ROOF DRAIN         CB ■       CATCH BASIN         CO Φ       BURIED CLEANOUT         CO I       EXPOSED CLEANOUT         CO I       EXPOSED CLEANOUT         O'       SANITARY 'P' TRAP         O       PIPE UP         CO I       PIPE DOWN         VTR       VENT THROUGH ROOF         CAP I       CAP ON PIPING         Q'       DRAWING NOTE         Q       PIPING DROPDOWN	FD 🖨 FFD	FLOOR DRAIN/FUNNEL FLOOR DRAIN
RD IP       ROOF DRAIN         CBI       CATCH BASIN         CO IP       BURIED CLEANOUT         CO IP       EXPOSED CLEANOUT         Image: CO IP       PIPE UP         Image: CO IP       PIPE DOWN         Image: CO IP       CAP ON PIPING         Image: CO IP       Image: CO IP         Image: CO IP       Image: CO IP <th>HD <b>O</b></th> <th>HUB DRAIN</th>	HD <b>O</b>	HUB DRAIN
CBE       CATCH BASIN         CO O       BURIED CLEANOUT         CO I       EXPOSED CLEANOUT         O'       SANITARY 'P' TRAP         O'       PIPE UP         O       PIPE DOWN         VTR       VENT THROUGH ROOF         CAP I       CAP ON PIPING         ISOLATION VALVE       ISOLATION VALVE         O       PIPING DROPDOWN	AD 🖸	AREA DRAIN
CBE       CATCH BASIN         CO O       BURIED CLEANOUT         CO I       EXPOSED CLEANOUT         O'       SANITARY 'P' TRAP         O'       PIPE UP         O       PIPE DOWN         VTR       VENT THROUGH ROOF         CAP I       CAP ON PIPING         ISOLATION VALVE       ISOLATION VALVE         O       PIPING DROPDOWN	RD 🖶	ROOF DRAIN
CO II──       EXPOSED CLEANOUT         Vo       SANITARY 'P' TRAP         CO II──       PIPE UP         CO II──       PIPE DOWN         VTR       VENT THROUGH ROOF         CAP II       CAP ON PIPING         ISOLATION VALVE       ISOLATION VALVE         O       PIPING DROPDOWN		CATCH BASIN
♀       SANITARY 'P' TRAP         ► ●       PIPE UP         ► ●       PIPE DOWN         ∨TR       VENT THROUGH ROOF         CAP □       CAP ON PIPING          DRAWING NOTE         ▷       ISOLATION VALVE         ○       PIPING DROPDOWN	со <b>а</b> —	BURIED CLEANOUT
►       ●         ►       ●         ▶       ●         VTR       VENT THROUGH ROOF         CAP □       CAP ON PIPING          ⑦         DRAWING NOTE         ▷       ISOLATION VALVE         ○       PIPING DROPDOWN	CO II	EXPOSED CLEANOUT
►       ●         ►       ●         ▶       ●         VTR       VENT THROUGH ROOF         CAP □       CAP ON PIPING          ⑦         DRAWING NOTE         ▷       ISOLATION VALVE         ○       PIPING DROPDOWN	<b>م</b> رک	SANITARY 'P' TRAP
VTR       VENT THROUGH ROOF         CAP ¬       CAP ON PIPING         (7)       DRAWING NOTE         ⋈       ISOLATION VALVE         •       PIPING DROPDOWN		PIPE UP
CAP       CAP ON PIPING         (7)       DRAWING NOTE         (N)       ISOLATION VALVE         ()       PIPING DROPDOWN	<b>، السري</b>	PIPE DOWN
⟨7⟩       DRAWING NOTE         ⋈       ISOLATION VALVE         𝔅       PIPING DROPDOWN	VTR	VENT THROUGH ROOF
ISOLATION VALVE       O     PIPING DROPDOWN	САР п	CAP ON PIPING
ISOLATION VALVE       O     PIPING DROPDOWN	$\overline{O}$	DRAWING NOTE
		ISOLATION VALVE
WATER METER	0	PIPING DROPDOWN
	M	WATER METER

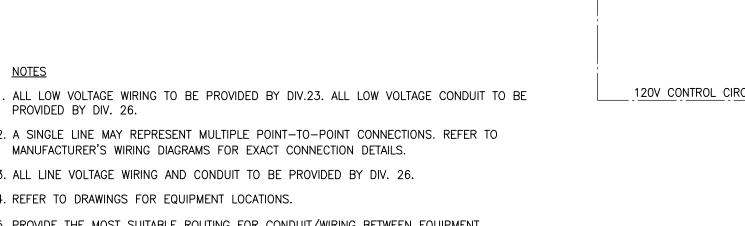
# FIRE PROTECTION LEGEND

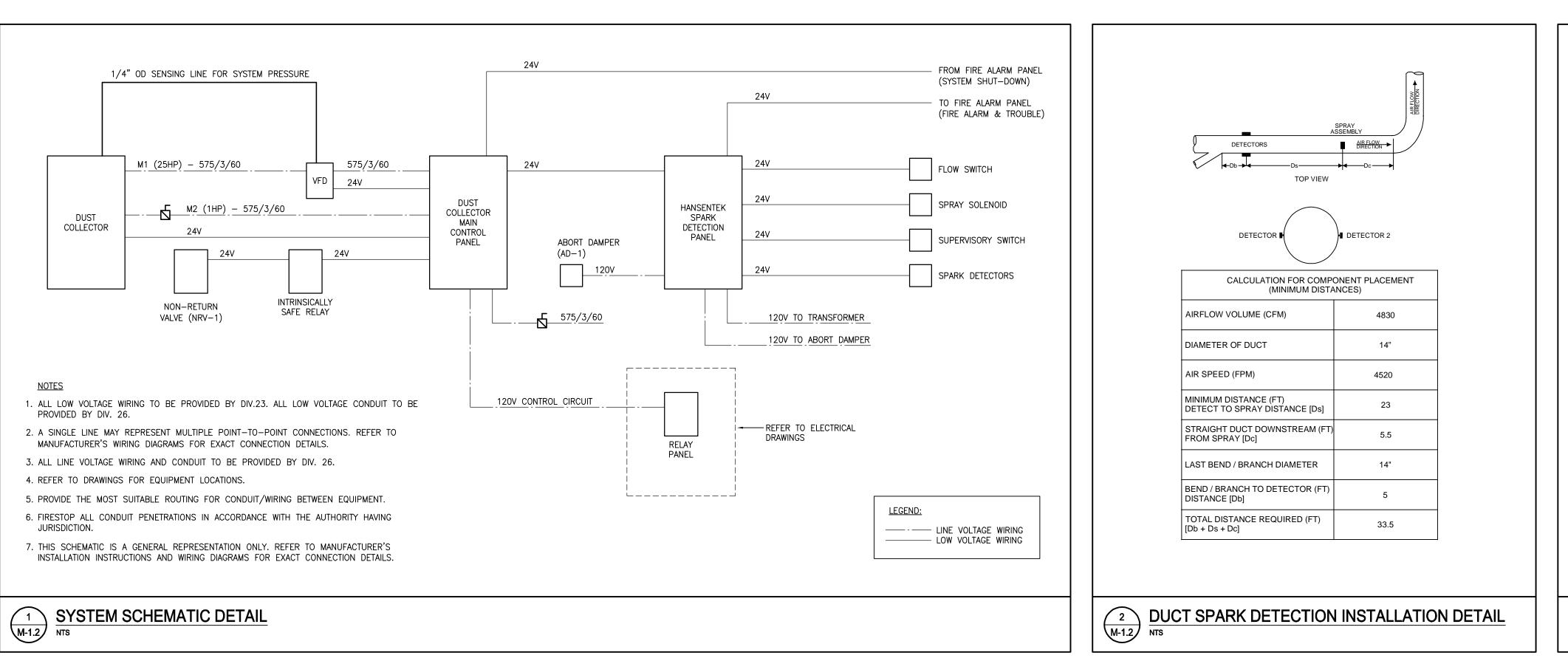
0	UPRIGHT SPRINKLER HEAD
θ	PENDENT SPRINKLER HEAD
•	RECESSED PENDENT SPRINKLER HEAD
0	CONCEALED SPRINKLER HEAD
Δ	SIDEWALL SPRINKLER HEAD
FE	FIRE EXTINGUISHER
FHC	FIRE HOSE CABINET
(7)	DRAWING NOTE











# DUST COLLECTOR SCHEDULE (PRE-PURCHASED)

TAG	LOCATION	TYPE CAP. (CFM)		# OF DRUMS	INLET	DUST COLLECTOR MOTOR				SHAKER	MOTOR			
					CONNECTION (IN)	ESP (IN.WG.)	DRIVE	Motor (HP)	RPM	Motor (HP)	RPM	V/PH/HZ	WEIGHT (LBS)	
DC-1	EXTERIOR ON GRADE	BAGHOUSE WITH SHAKER	4830	(2) 55 GAL	15	19.0"	DIRECT DRIVE	25.0	3600	1.0	1800	575/3/60	5800	DUST COLLECTOR C/W SOUND ATTENUAT VENT WITH DEFLECTOR, SPRAY NOZZLE DRUMS WITH DOLLIES AND DIFFERENTIAL

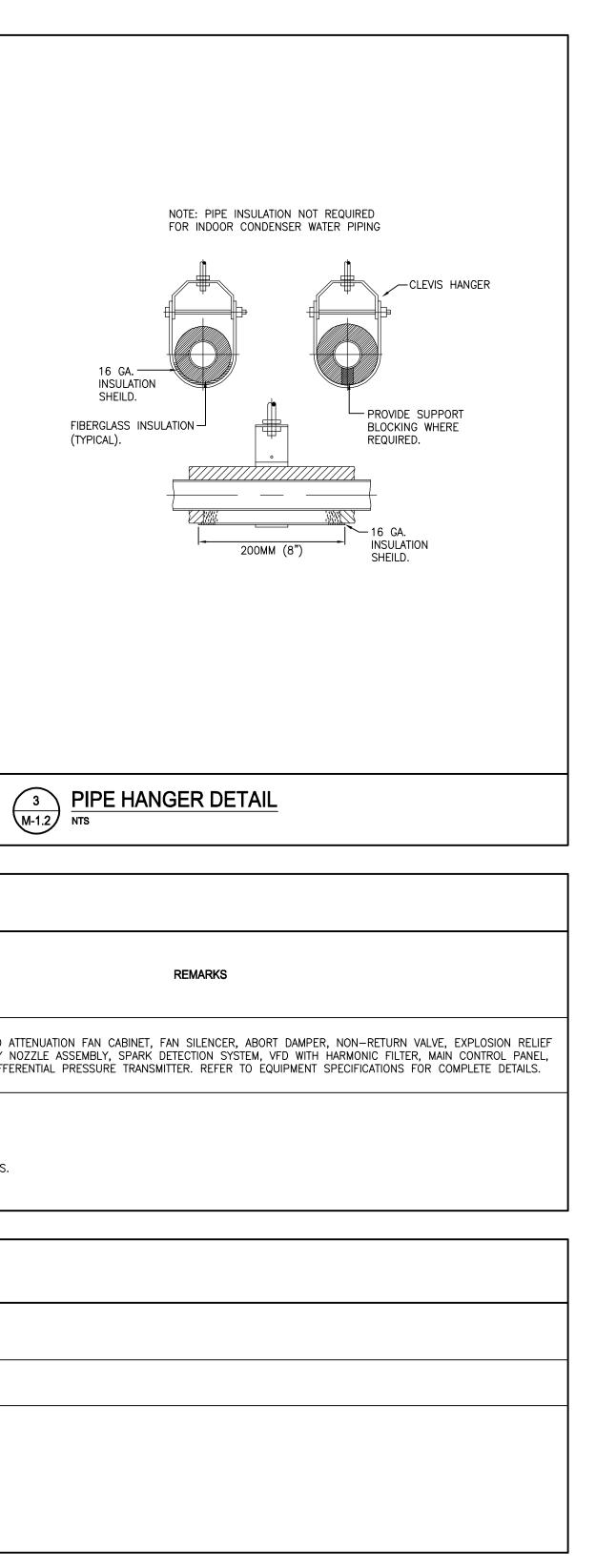
1. BASIS OF DESIGN IS EUROVAC MODEL #PDC-700. 2. ALL MOTORS, STARTERS, CONTACTORS, DISCONNECT SWITCHES AND CONTROL DEVICES SHALL BE PROVIDED BY DIV.23 AND INSTALLED BY DIV.26.

3. ALL LOW VOLTAGE WIRING TO BE PROVIDED BY DIV.23. 4. DUST COLLECTOR HAS BEEN PRE-PURCHASED BY CLIENT (HWDSB). CONTRACTOR IS RESPONSIBLE FOR COORDINATING AND ACCEPTING DELIVERY, INSTALLATION, AND ASSUMING ALL MANUFACTURER WARRANTIES.

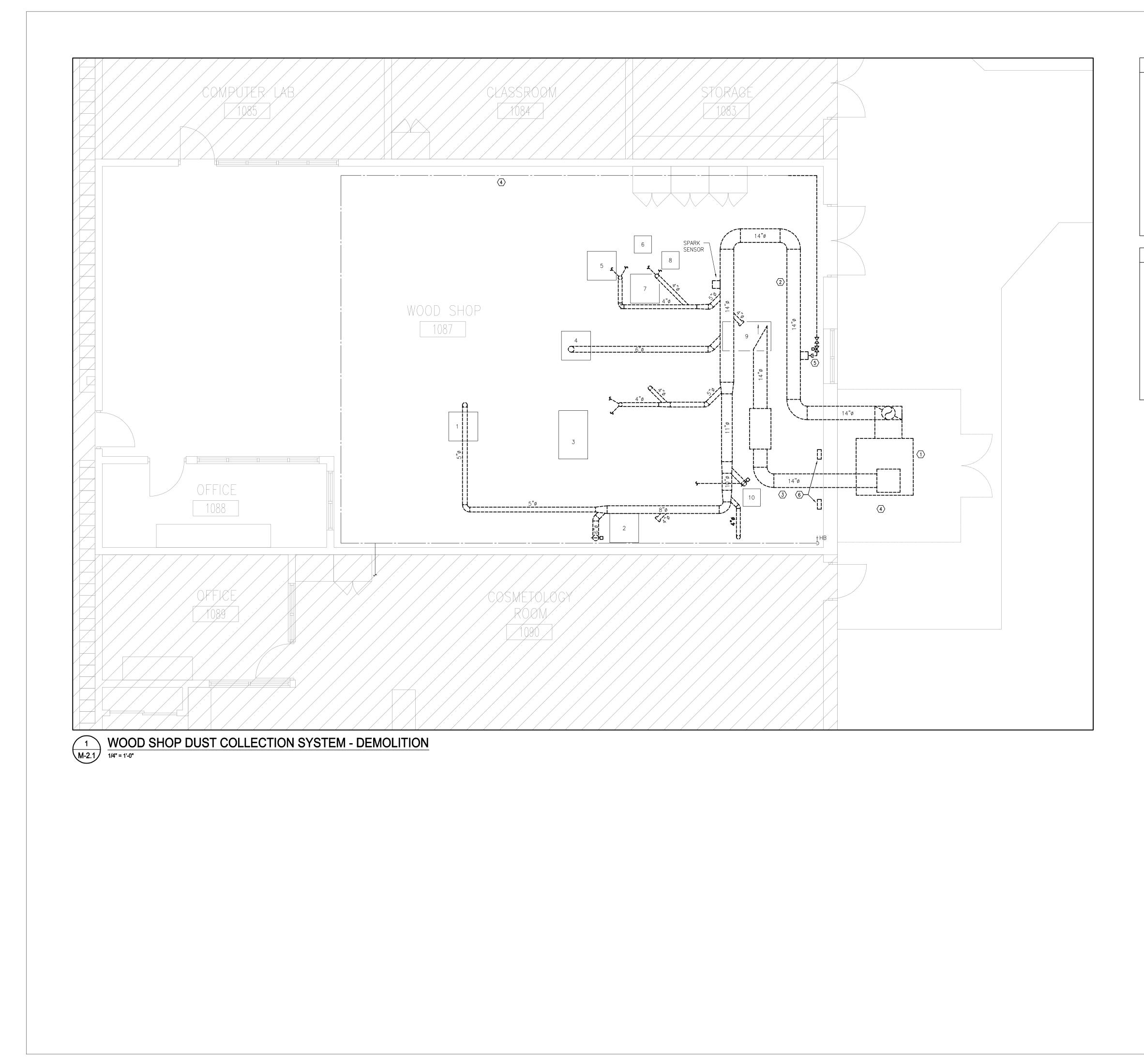
# DIFFUSER SCHEDULE

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

1. SIZE ALL GRILLES, DIFFUSERS, ETC. AS PER MECHANICAL DRAWINGS. 3. CONFIRM ALL FINISHES WITH ARCHITECT/INTERIOR DESIGNER.



GIALLONA This draw and all oth the drawi The contr conditions variations	Engine 220-45 Wood (905 info@gial www.gial www.gial	ior to proceeding with th responsibility for all dim ALLONARDO ENGINEERIN	ensions and IG INC. of an	y
NO.	ISSUES		DATE	BY
1	ISSUED FOR 60% RE	VIEW	DEC. 04 2024	JH
2	ISSUED FOR EQUIPME	ENT PURCHASE	DEC. 27 2024 JAN. 23	JH
3	ISSUED FOR PERMIT		2025 APR. 17	JH
+	ISSUED FOR TENDER		2025	JW
NO.	REVISIONS		DATE	BY
HIG DUS 215 WA ⁻ HAMI DRA	OJECT: ATERDON GH SCHO ST COLLEC PARKSIDE DI TERDOWN, O ILTON WENTWOR AWING: CHANICA ID DETAIL	OL TOR REPLA RIVE NTARIO L8B TH DISTRICT SC AL SCHE	ACEN 1B9 CHOOL E	IENT BOARD
B	BA	PROFE 2025-0 2025-0 10045 10045	SSION42 04-17 DNARDO 52400 DF ONNA	
	RRY BRYAN	DESIGN BY:	DOC C DATE:	ONTROL:
ASS Archi	SOCIATES itects	SW DRAWN BY:	ØATE: % CON	IPLETE:
-	neers oct Managers	RC CHECKED BY:	INITIAL:	
Suite	Vater Street 201 y Ontario			
L1N 0 Tel:	G5 (905) 666-5252	SEPTEMBER 2 SCALE:	2024	
Fax:	(905) 666-5256 bba@bba-archeng.com	AS SHOWN		
	154B		1.2	)



MECHANICAL DRAWING NOTES

- $\langle 1 \rangle$  EXISTING DUST COLLECTOR AND ALL ASSOCIATED CONTROLS, SUPPORTS, ETC. TO BE REMOVED AND DISPOSED OF.
- $\langle 2 \rangle$  EXISTING EXHAUST DUCTWORK AND ALL ASSOCIATED HANGERS, SUPPORTS, DROPS, ETC. TO BE REMOVED AND DISPOSED OF. RETAIN ALL EQUIPMENT FLEX CONNECTIONS FOR REINSTALLATION (TYPICAL).
- $\langle \overline{3} \rangle$  EXISTING SUPPLY DUCTWORK AND ALL ASSOCIATED HANGERS, SUPPORTS, ETC. TO BE REMOVED AND DISPOSED OF.
- $\langle 4 \rangle$  EXISTING DCW PIPING AT HIGH LEVEL TO REMAIN.
- $\langle 5 \rangle$  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.
- $\langle 6 \rangle$  EXISTING MAIN CONTROL PANEL, SPARK DETECTION PANEL AND ALL ASSOCIATED CONTROLS, WIRING, CONDUIT, ETC. TO BE REMOVED AND DISPOSED OF.

#### GENERAL NOTES

- . 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.
- 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 CONTRACTOR SHALL PROVIDE INTERFERENCE DRAWINGS AND SHALL SUBMIT THEM TO THE CONSULTANT FOR REVIEW.



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1	ISSUED FOR 60% REVIEW	DEC. 04 2024	JH
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3	ISSUED FOR PERMIT	JAN. 23 2025	JH
4	ISSUED FOR TENDER	APR. 17 2025	SW

NO.	REVISIONS	DATE	BY

#### PROJECT:

### WATERDOWN DISTRICT **HIGH SCHOOL** DUST COLLECTOR REPLACEMENT

215 PARKSIDE DRIVE WATERDOWN, ONTARIO L8B 1B9 HAMILTON WENTWORTH DISTRICT SCHOOL BOARD

DRAWING:

# WOOD SHOP DUST COLLECTION SYSTEM -DEMOLITION





DOC CONTROL:

% COMPLETE:

INITIAL:

BARRY BRYAN ASSOCIATES Architects Engineers Project Managers

250 Water Street Suite 201 Whitby Ontario L1N 0G5 Tel: (905) 666-5252

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

DATE: SEPTEMBER 2024 SCALE: AS SHOWN

DESIGN BY:

DRAWN BY:

CHECKED BY:

SW

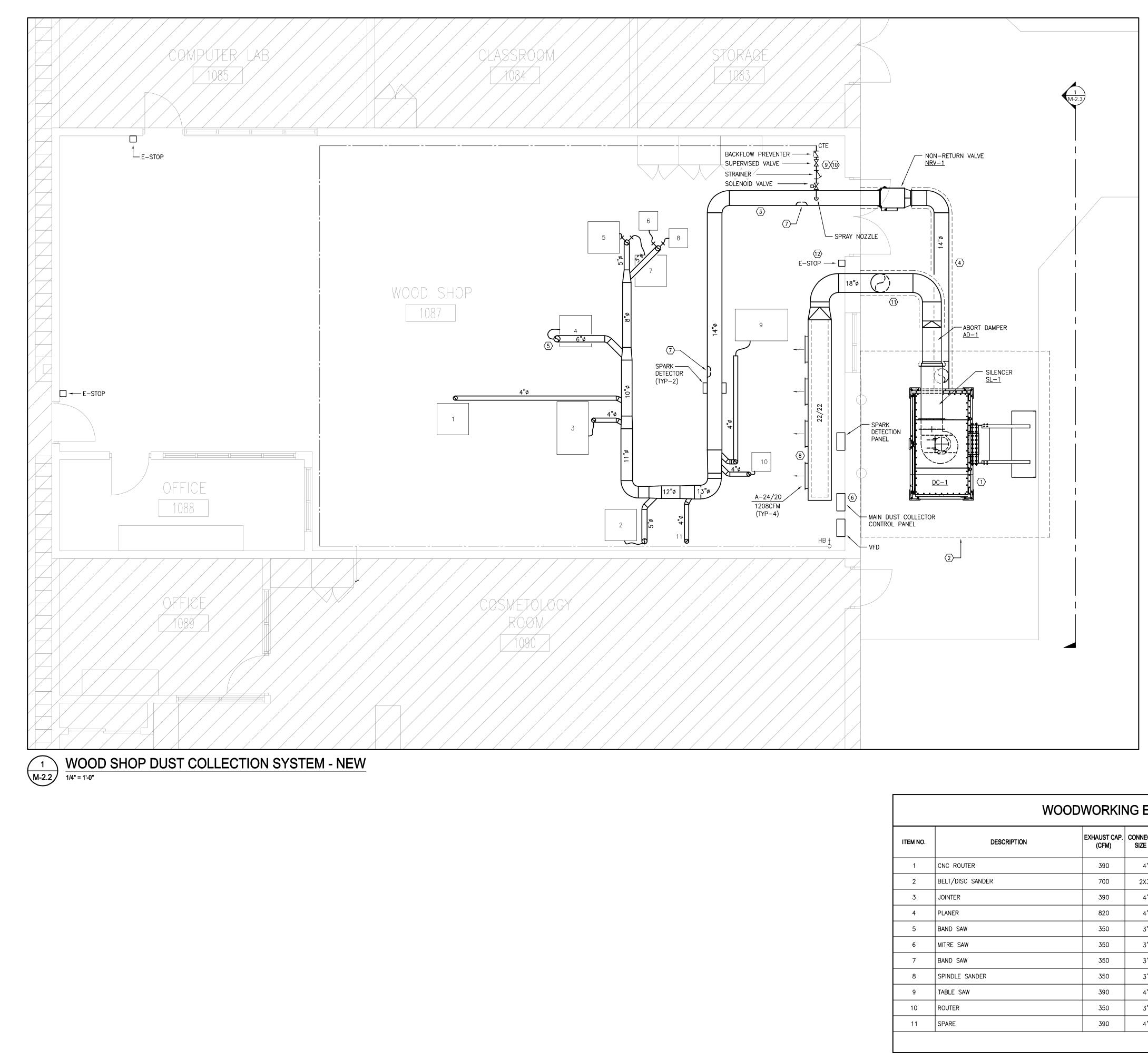
RC

JH

FILE:

PROJECT NO: 24154B

DRAWING NO: **M-2.1** 



	WC	DODWORKI	NG EQL	JIPMENT SCHEDULE
ITEM NO.	DESCRIPTION	EXHAUST CAP. (CFM)	CONNECTION SIZE (IN)	REMARKS
1	CNC ROUTER	390	4"	CAPPED DUCT FOR FUTURE EQUIPMENT CONNECTION
2	BELT/DISC SANDER	700	2X3"	TWO SEPARATE CONNECTIONS TO SANDER
3	JOINTER	390	4"	
4	PLANER	820	4"	
5	BAND SAW	350	3"	
6	MITRE SAW	350	3"	
7	BAND SAW	350	3"	
8	SPINDLE SANDER	350	3"	
9	TABLE SAW	390	4"	
10	ROUTER	350	3"	
11	SPARE	390	4"	CAPPED DUCT FOR FUTURE EQUIPMENT CONNECTION

MECHANICAL DRAWING NOTES

- 1 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 MANUFACTURER WARRANTIES.
- 2 NEW HOUSEKEEPING PAD AND FENCED ENCLOSURE, REFER TO ARCHITECTURAL DRAWINGS.
- (3) PROVIDE GALVANIZED DUCTWORK EQUAL TO <u>NORDFAB</u> <u>QUICK-FIT</u> C/W METAL QUICK FIT CLAMPS AT INTERIOR OF BUILDING. REFER TO SPECIFICATIONS.
- 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 MECHANICAL SPECIFICATIONS.
- $\langle 5 \rangle$  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 EXISTING EQUIPMENT LAYOUT (TYPICAL).
- (6) PROVIDE NEW MAIN CONTROL PANEL, SPARK DETECTION PANEL AND FAN VFD. REFER TO WIRING SYSTEM SCHEMATIC DETAIL AND INSTALL AS PER MANUFACTURER'S INSTALLATION INSTRUCTIONS.
- 7 PROVIDE EXPLOSION PROOF DUCT ACCESS DOOR.
- (8) PROVIDE NEW ACOUSTICALLY INSULATED RECTANGULAR S/A DUCTWORK C/W DIFFUSERS AS SPECIFIED. BALANCE AS INDICATED.
- (9) INSTALL NEW SPRAY ASSEMBLY INCLUDING SUPERVISED VALVE, STRAINER, FLOW SWITCH AND SOLENOID VALVE. INSTALL AS PER MANUFACTURER'S INSTALLATION INSTRUCTIONS.
- 10 PROVIDE NEW BACKFLOW PREVENTER UPSTREAM OF NEW SPRAY ASSEMBLY.
- (11) PROVIDE NEW THERMALLY INSULATED AND JACKETED S/A DUCTWORK AS SPECIFIED (TYPICAL).
- (12) PROVIDE NEW E-STOP AND INTERLOCK WITH NEW DUST COLLECTOR MAIN PANEL. PROVIDE A LABEL INDICATING "DUST COLLECTOR EMERGENCY STOP". CONFIRM EXACT WORDING WITH HWDSB (TYP-3).

#### GENERAL NOTES

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4	ISSUED FOR TENDER	APR. 17 2025	SW

	DEVICIONO		
NO.	REVISIONS	DATE	BY

#### PROJECT:

#### WATERDOWN DISTRICT **HIGH SCHOOL DUST COLLECTOR REPLACEMENT**

215 PARKSIDE DRIVE WATERDOWN, ONTARIO L8B 1B9 HAMILTON WENTWORTH DISTRICT SCHOOL BOARD

DRAWING:

## WOOD SHOP DUST COLLECTION SYSTEM -NEW





DOC CONTROL:

% COMPLETE:

INITIAL:

BARRY BRYAN ASSOCIATES Architects Engineers Project Managers 250 Water Street

Suite 201 Whitby Ontario L1N 0G5 Tel: (905) 666-5252 Fax: (905) 666-5256 e-mail: bba@bba-archeng.com CHECKED BY: JH DATE: SEPTEMBER 2024 SCALE: AS SHOWN

DESIGN BY:

DRAWN BY:

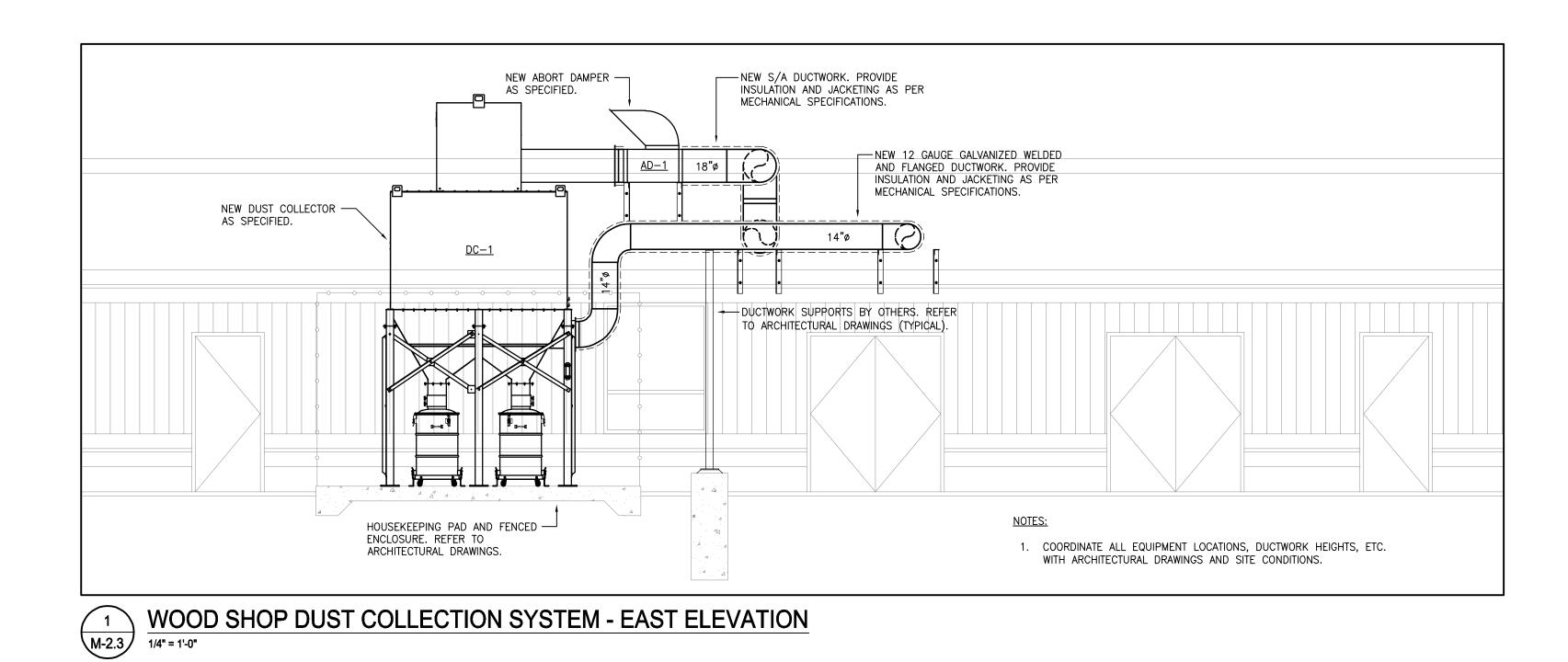
SW

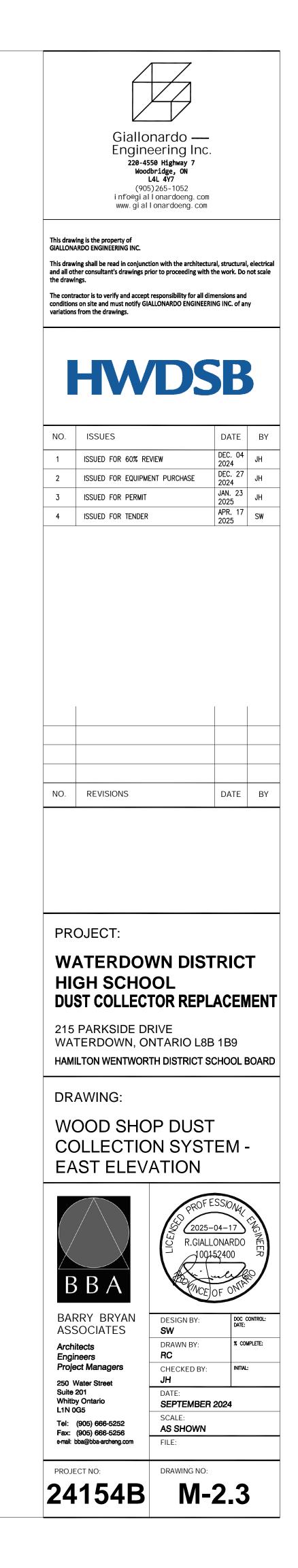
RC

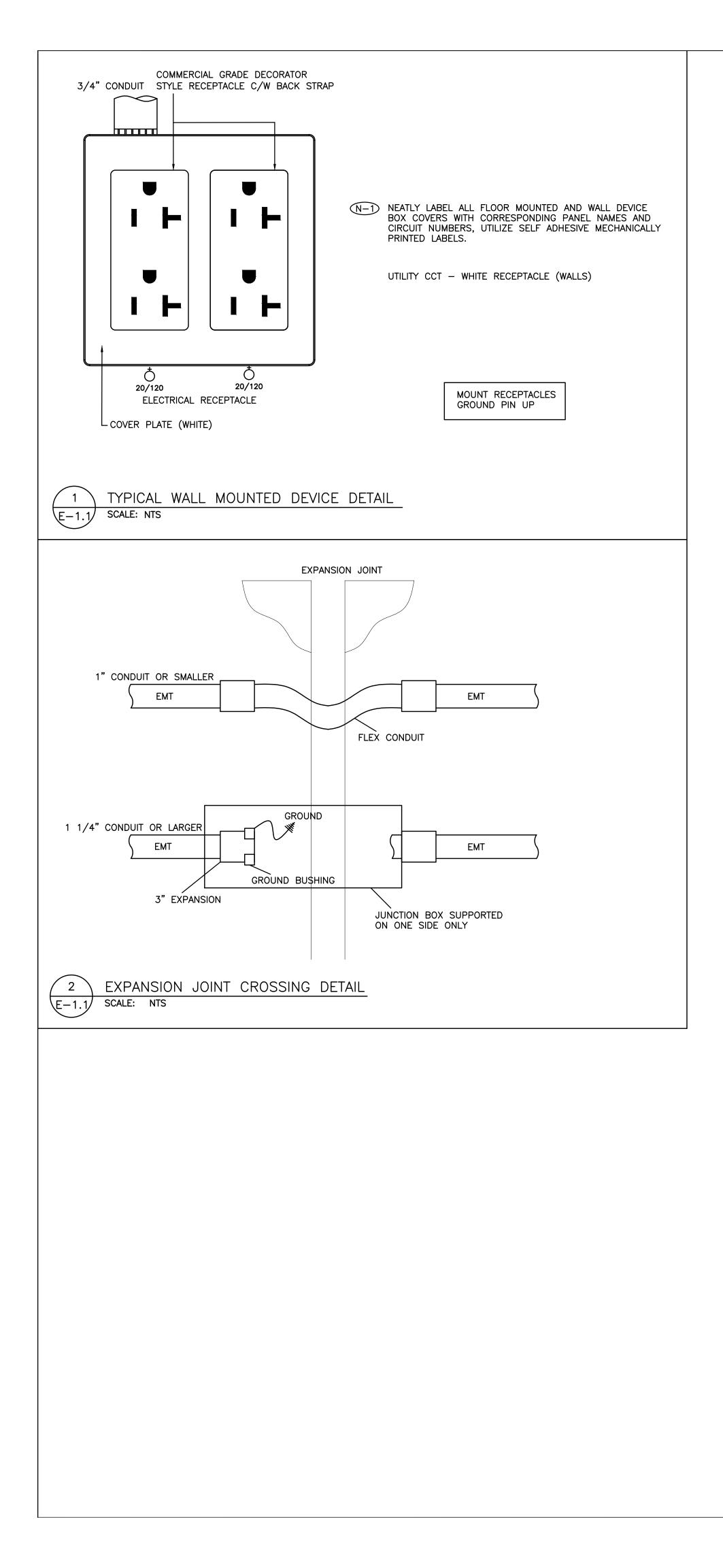
FILE:

PROJECT NO: 24154B

DRAWING NO:		
M-	2	.2







	LEGEND
₽ ^{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.
E	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.
<u>ک</u>	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.
Μ	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, TRANSFORMERS, RECEPTACLE PANELS, FIRE ALARM SYSTEMS, LIGHTING FIXTURES, LIGHTING CONTROLS, 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, 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.
- FIRE ALARM SYSTEM TESTING AND VERIFICATIONS MUST TAKE PLACE 9. 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, 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

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

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 KZ ISSUED FOR REVIEW 2024 JAN. 22 KZ ISSUED FOR PERMIT 2025 MAY. 5 KZ ISSUED FOR TENDER 2025 HCC ENGINEERING DESIGN AND TECHNOLOGY SERVICES GROUP HCC ENGINEERING LIMITEI 200 KING STREET WEST SUITE 310 Toronto, ontario, M5H 3T4 Tel: (416) 932-2423

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NO. REVISIONS DATE BY ---------FESSID, H.D. COHEN 90414335 Z. ZHONG

#### PROJECT:

100545750

MAY05/25

CEOFO

#### WATERDOWN DISTRICT **HIGH SCHOOL** DUST COLLECTOR REPLACEMENT

MAY05/25

215 PARKSIDE DRIVE WATERDOWN, ONTARIO L8B 1B9 HAMILTON-WENTWORTH DISTRICT SCHOOL BOARD

DRAWING:

# ELECTRICAL LEGEND AND DETAILS



BARRY BRYAN ASSOCIATES Architects Engineers Project Managers

250 Water Street Suite 201 Whitby Ontario L1N 0G5 Tel: (905) 666-5252 Fax: (905) 666-5256

PROJECT NO:

e-mail: bba@bba-archeng.com

24141.2

AS SHOWN DRAWING NO: E-1.1

DOC CONTROL:

% COMPLETE:

INITIAL:

DESIGN BY:

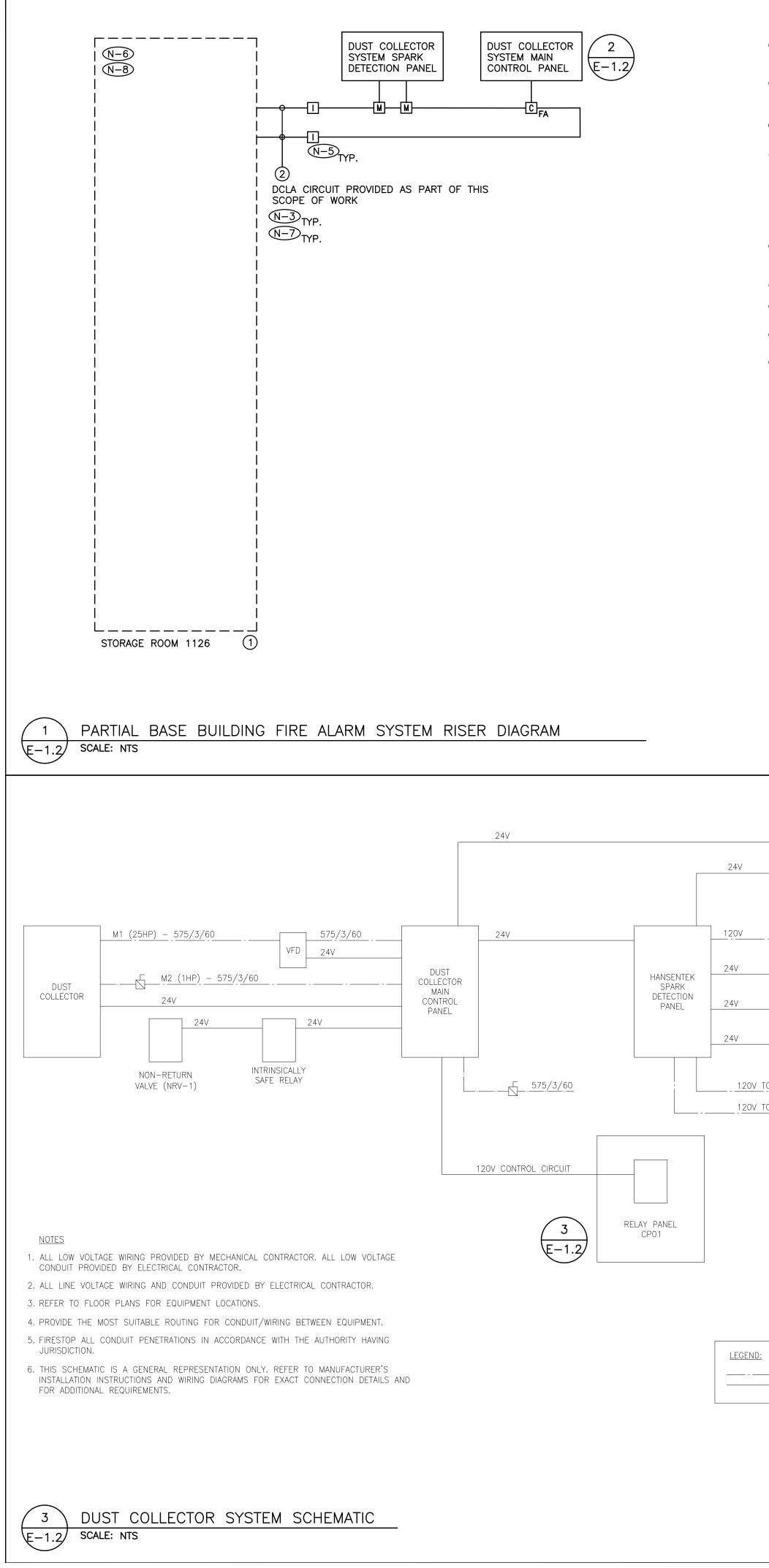
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DATE:

SCALE:

FILE:



N-1 RISER IS DIAGRAMMATIC ONLY. PROVIDE QUANTITY OF STROBE LIGHT C INITIATING DEVICE CIRCUITS, HARDWARE, MODULES, ACCESSORIES, DEVI		
TO ENSURE A FULLY OPERATIONAL FIRE ALARM SYSTEM. N-2 REFER TO FLOOR PLANS AND REFLECTED CEILING PLANS FOR EXACT OF DEVICES, DEVICE PERIPHERALS AND ACCESSORIES (IE. WIRE GUARD	QUANTITY AND LOCATION	
DEVICES, WEATHER PROOF DEVICES, ETC.).		
RECOMMENDATIONS. MINIMUM CONDUIT SIZE 3/4". (N-4) PROVIDE DEDICATED CORE DRILLED FLOOR AND WALL PENETRATIONS OF REQUIRED FOR FIRE ALARM SYSTEM CONDUITS/MI CABLE. EXACT LOCA TO BE DETERMINED BY X-RAYING RESULTS.		DWG FIRE FIRE ZONE NO. ID L
N-5 PROVIDE LINE ISOLATOR MODULES TO ISOLATE DCLA SEGMENTS ON A BASIS, ON A PER FLOOR BASIS AND AS REQUIRED BY THE MANUFACT BUILDING CODE. NOTE: PROVIDE ADDITIONAL LINE ISOLATOR MODULES ABOVE THOSE SHOWN ON RISER DIAGRAM TO SATISFY ISOLATION REQU	URER AND BY ONTARIO AS REQUIRED OVER AND	01 DUST COLLE
N-6 MODIFY, REWORK AND PROVIDE ALL COMPONENTS AND ACCESSORIES REQUIRED TO ACCOMMODATE ALL SCOPES OF WORK AS NOTED ON DE	FOR CONTROL PANEL AS	
SPECIFICATION. (N-7) EACH DCLA WIRING LOOP SHALL BE LIMITED TO SERVING DEVICES ON (N-8) PROVIDE ADDITIONAL BATTERIES IN EXISTING CONTROL PANEL AS REQU		
TOTAL LOAD REQUIREMENTS AT THE COMPLETION OF THIS PROJECT. N-9 PROVIDE 24VDC CIRCUITS FOR STROBES AND OTHER 24VDC DEVICES. CIRCUIT SHALL NOT EXCEED 70%. CIRCUIT REQUIREMENTS NOT SHOWN		
N−10 AS PART OF THE BASE BID PRICE ELECTRICAL CONTRACTOR SHALL PF THROUGHOUT THE DURATION OF THE PROJECT.		N-1 ZONE DESCRIPTIO
		N-2) 'SC' DENOTES SU N-3) SEQUENCE OF OI COORDINATED WIT
<ol> <li>EXISTING FIRE ALARM SYSTEM CONTROL PANEL – SIMPLEX 4100ES</li> <li>CONDUIT AND WIRE PER MANUFACTURER'S REQUIREMENTS</li> </ol>		CONTRACTOR, FIR APPROVAL PROCE
BASE BUILDING FIRE ALARM SYSTEM MANUFACTURER TYCO INTEGRATED FIRE & SECURITY		
MATT FLINTOFF CELL: 289–260–9830 MATTHEW.FLINTOFF@JCI.COM		
DENOTES NEW PROVIDED BY ELECTRICAL CONTRACTOR.		
DENOTES EXISTING TO REMAIN.*-*-**-*-*DENOTES EXISTING TO BE REMOVED BY ELECTRICAL CON	ITRACTOR.	
		2 FIRE ALARM SYSTEM
		E-1.2 SCALE: NTS
	NEUTRAL	
FROM FIRE ALARM PANEL		NO
(SYSTEM SHUT-DOWN) TO FIRE ALARM PANEL (FIRE ALARM & TROUBLE)		NO    R1 NO    R1 NO    R1
		NO R1
	PHASE A/B/C	
SPRAY SOLENOID	BUS RP-7	CP01(2
SUPERVISORY SWITCH		
SPARK DETECTORS		EQUIPMENT LOCKOUT RELAY
TO_ABORT_DAMPER_(AD-1)		NO
	DUST COL	
		IROL PANEL
		MATIC ONLY. PROVIDE QUANTITY OF CONTROL
	TESTING AND COMMISS	MODULES, ACCESSORIES, DEVICES, CONDUIT, W ONING TO ENSURE A FULLY OPERATIONAL GAS FOR EXACT QUANTITY AND LOCATION OF DEV
	AND ACCESSORIES.	UIT, BACKBOX AND WIRING IN ACCORDANCE W
	(N-4) PROVIDE ALL SOFTWARE	JM CONDUIT SIZE 3/4". E, PROGRAMMING, LICENSES, COMPONENTS, AC DDATE ALL SCOPES OF WORK NOTED ON DRAV
— LINE VOLTAGE WIRING PROVIDED AS PART OF THIS SCOPE OF WORK	SPECIFICATIONS.	NG TO BE ENCLOSED IN A CONDUIT SYSTEM.
- LOW VOLTAGE WIRING PROVIDED BY MECHANICAL CONTRACTOR		
	② RELAY PANEL C/W MUI	EM MAIN CONTROL PANEL PROVIDED BY MECH
	SCHNEIDER 8903SQG3V	'84FF4TX22/18.15"W X 29.15"H X 9.24"D WAI
		IENT PANEL WIRNG SCHEMATIC
	E-1.2 SCALE: NTS	

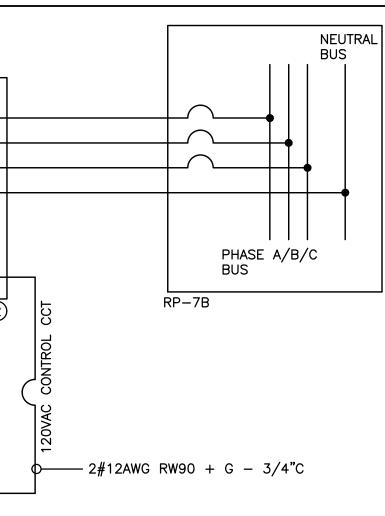
E ZONE LABEL N-1	INITIATING DEVICE	ALARM SIGNAL	TROUBLE SIGNAL
LECTOR ALARM	Μ	*	
LECTOR TROUBLE	Μ		*

TION TO BE DETERMINED ON SITE.

SUPERVISORY CONTACT.

OPERATIONS AND ALARM/ALERT SIGNALING REQUIREMENTS TO BE WITH AUTHORITY HAVING JURISDICTION, CONSULTANT, MECHANICAL FIRE ALARM MANUFACTURER AND LANDLORD THROUGH SHOP DRAWING DCESS.

# ZONE SCHEDULE



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

EVICES, DEVICE PERIPHERALS

WITH MANUFACTURER'S

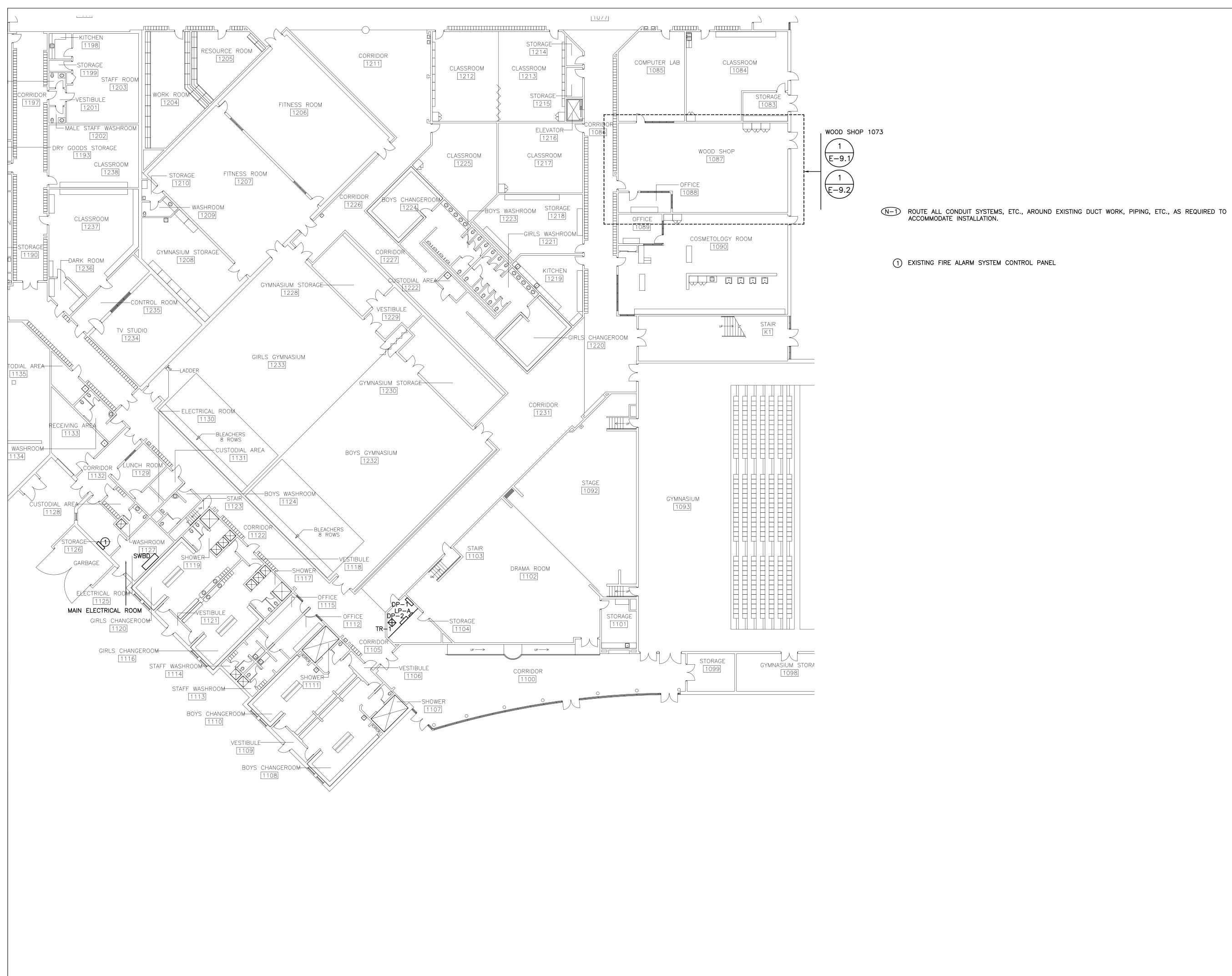
ACCESSORIES AND TESTING AS AWINGS AND IN

HANICAL CONTRACTOR

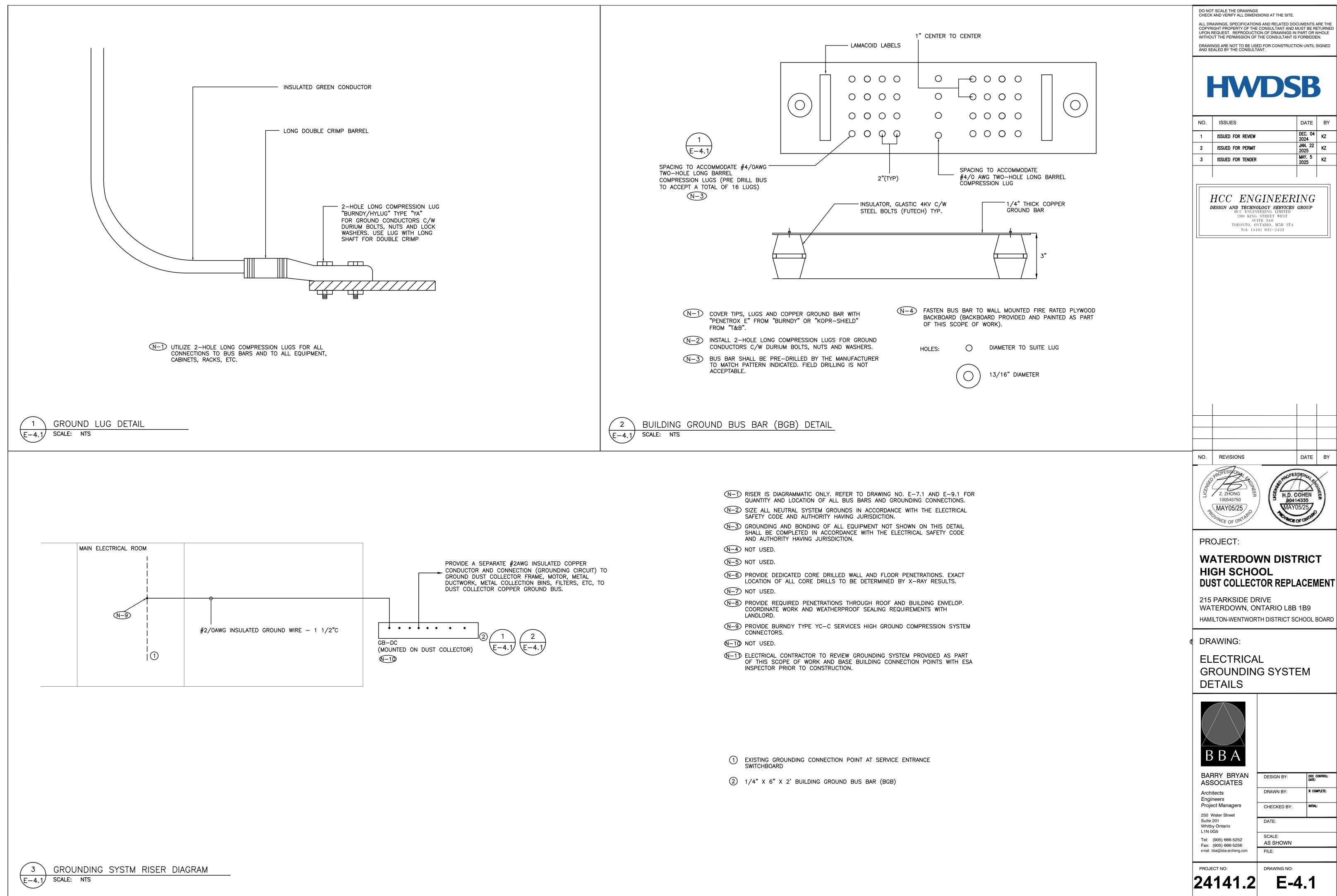
THIS SCOPE OF WORK -ALL MOUNTED ENCLOSURE

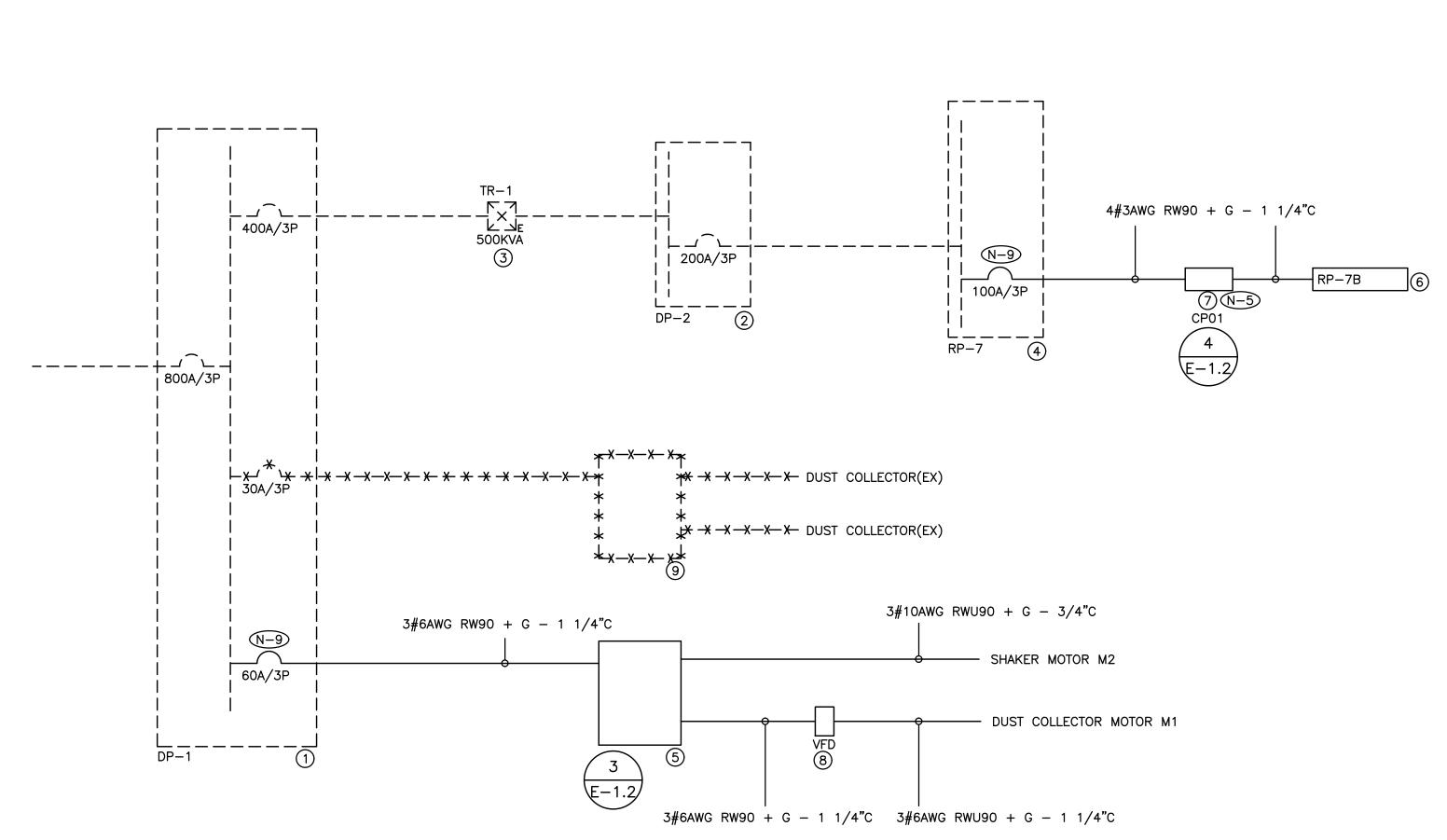
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PR PR V U 215 VA HAM DR EL BAF ASS Arch Engi Proje 250 V Suite Whitb LTNC Tel: Fax:	MAY05/25 WCE OF ONTARIO OJECT: ATERDON GH SCHC ST COLLEC PARKSIDE DI TERDOWN, O ILTON-WENTWOR AWING: ECTRICA AWING: BA BA BA BA BA BA BA SOCIATES itects neers SociATES itects neers SociATES itects neers SociATES itects neers SociATES itects neers SociATES itects neers SociATES itects neers SociATES itects neers SociATES itects neers SociATES itects Nater Street 201 201 201 201 201 201 201 201	AN DIST OL TOR REPLA RIVE NTARIO L8B ATH DISTRICT SC AL DETAI DESIGN BY: DRAWN BY: CHECKED BY: DATE:		
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HCC ENGINEERING Design and technology services group HCC ENGINEERING LIMITED 200 KING STREET WEST SUITE 310 TORONTO, ONTARIO, M5H 3T4 Tel: (416) 932-2423									
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PROJECT: WATERDOWN DISTRICT HIGH SCHOOL DUST COLLECTOR REPLACEMENT 215 PARKSIDE DRIVE WATERDOWN, ONTARIO L8B 1B9 HAMILTON-WENTWORTH DISTRICT SCHOOL BOARD									
DR	AWING:								
ELECTRICAL PLAN GROUND FLOOR									
BBA									
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Engineers Project Managers		CHECKED BY:	INITTAL	:					
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(N-1)	RISER IS DIAGRAMMATIC ONLY. REFER TO FLO
N-2	PROVIDE FIRE RATED PLYWOOD BACKBOARDS PART OF THIS CONTRACT. PAINT BACKBOARDS PROJECT MANAGER). FIRE RATED STAMP MUS INSTALLED. DO NOT PAINT OVER STAMP.
N-3)	ALL INDOOR DISTRIBUTION PROVIDED AS PAR ENCLOSURE, UNLESS SPECIFICALLY NOTED OT ENTERING DISTRIBUTION.
<u>N-4</u>	PROVIDE DEDICATED CORE DRILLED WALL AND ALL CORE DRILLS TO BE DETERMINED BY X- BY LANDLORD PRIOR TO CORE DRILLING.
N-5	AS PART OF THIS SCOPE OF WORK, PROVIDE RESPONSE TO ON/OFF STATUS OF DUST COL
N-6	ALL BREAKERS REQUIRED TO COMPLETE ALL BREAKERS.
N-7)	ROUTE ALL CONDUIT SYSTEMS AROUND EXIST REQUIRED TO ACCOMMODATE ALL INSTALLATIO DESIGNER DRAWINGS FOR ADDITIONAL DETAILS
<u>N-8</u>	PROVIDE TEMPORARY POWER AND LIGHTING T TRADES. REQUIREMENTS INCLUDE PROVIDING REQUIRED FOR THE WORK OF ALL TRADES. A BASE BID PRICE.
N-9	PROVIDE NEW BREAKER INDICATED. PROVIDE PROVIDE LUGS TO ACCOMMODATE WIRE SIZE TO EXTEND. REWORK, MODIFY AND RECERTIES

- N-1 USE GALVANIZED RIGID STEEL CONDUIT IN ALL OUTDOOR LOCATIONS AND IN AREAS THAT ARE NOT ENVIRONMENTALLY CONTROLLED.

- () EXISTING SWITCHBOARD 347/600V/3PH/4W/800A MCB/EATON PRL 4/25KA RMS
- (2) EXISTING SWITCHBOARD 120/208V/3PH/4W/1200A MCB/EATON PRL C/22KA RMS
- (3) EXISTING DRY TYPE TRANSFORMER 600/120/208V/3PH/4W/HAMMOND
- 5 DUST COLLECTOR MAIN CONTROL PANEL C/W SPARK DETECTION PANEL PROVIDED BY MECHANICAL
- CONTRACTOR
- FOR ADDITIONAL REQUIREMENTS.
- (8) VARIABLE FREQUENCY DRIVE (VFD) PROVIDED BY MECHANICAL CONTRACTOR
- MECHANICAL CONTRACTOR

------ DENOTES NEW PROVIDED BY ELECTRICAL CONTRACTOR --- Denotes existing to remain X X X X DENOTES EXISTING TO BE REMOVED BY ELECTRICAL CONTRACTOR

# 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 1 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. DATE BY REVISIONS ---------FESSIC H.D. COHEN 90414335 Z. ZHONG 100545750 MAY05/25 MAY05/25 VCE OF C PROJECT: WATERDOWN DISTRICT **HIGH SCHOOL** DUST COLLECTOR REPLACEMENT 215 PARKSIDE DRIVE WATERDOWN, ONTARIO L8B 1B9 HAMILTON-WENTWORTH DISTRICT SCHOOL BOARD DRAWING: ELECTRICAL SINGLE LINE DIAGRAM ΒB/ BARRY BRYAN DESIGN BY: DOC CONTROL: ASSOCIATES DRAWN BY: % COMPLETE: Architects Engineers Project Managers CHECKED BY: INITIAL: 250 Water Street Suite 201 DATE: Whitby Ontario L1N 0G5 SCALE: Tel: (905) 666-5252 NTS Fax: (905) 666-5256 e-mail: bba@bba-archeng.com FILE:

PROJECT NO: 24141.2 E-7.1

DRAWING NO:

LOOR PLANS FOR DEVICE QUANTITY AND LOCATIONS. FOR ALL ELECTRICAL DISTRIBUTION EQUIPMENT PROVIDED AS DS WITH FIRE RETARDANT PAINT (COLOUR AS DIRECTED ON SITE BY JST BE ON ALL PIECES PROVIDED AND MUST BE VISIBLE WHEN

RT OF THIS SCOPE OF WORK MUST BE TYPE 2/TYPE 3R

OTHERWISE. PROVIDE COMPRESSION FITTINGS FOR SERVICES

ND FLOOR PENETRATIONS ON EVERY FLOOR. EXACT LOCATION OF -RAY RESULTS. ALL X-RAYS MUST BE REVIEWED AND APPROVED

DE LAMACOID PLATE DETAILING OPERATION OF CONTACTOR IN OLLECTOR.

SCOPES OF WORK TO BE NEW. DO NOT REUSE EXISTING

STING DUCT WORK, BEAMS, NEW DUCT WORK AND PIPING AS ON REQUIREMENTS. REFER TO MECHANICAL DRAWINGS AND

THROUGHOUT PROJECT TO ACCOMMODATE REQUIREMENTS OF ALL EXTENSION CORDS, EXTENSION LIGHTING AND EQUIPMENT ALL COSTS RELATED TO THIS WORK SHALL BE INCLUDED IN THE

MOUNTING HARDWARE TO ACCOMMODATE EXISTING PANEL BUS. INDICATED. PROVIDE THE SERVICE OF A PANEL MANUFACTURER TO EXTEND, REWORK, MODIFY AND RECERTIFY EXISTING PANEL BUS AS REQUIRED TO FACILITATE INSTALLATION OF BREAKER PROVIDED AS PART OF THIS SCOPE OF WORK.

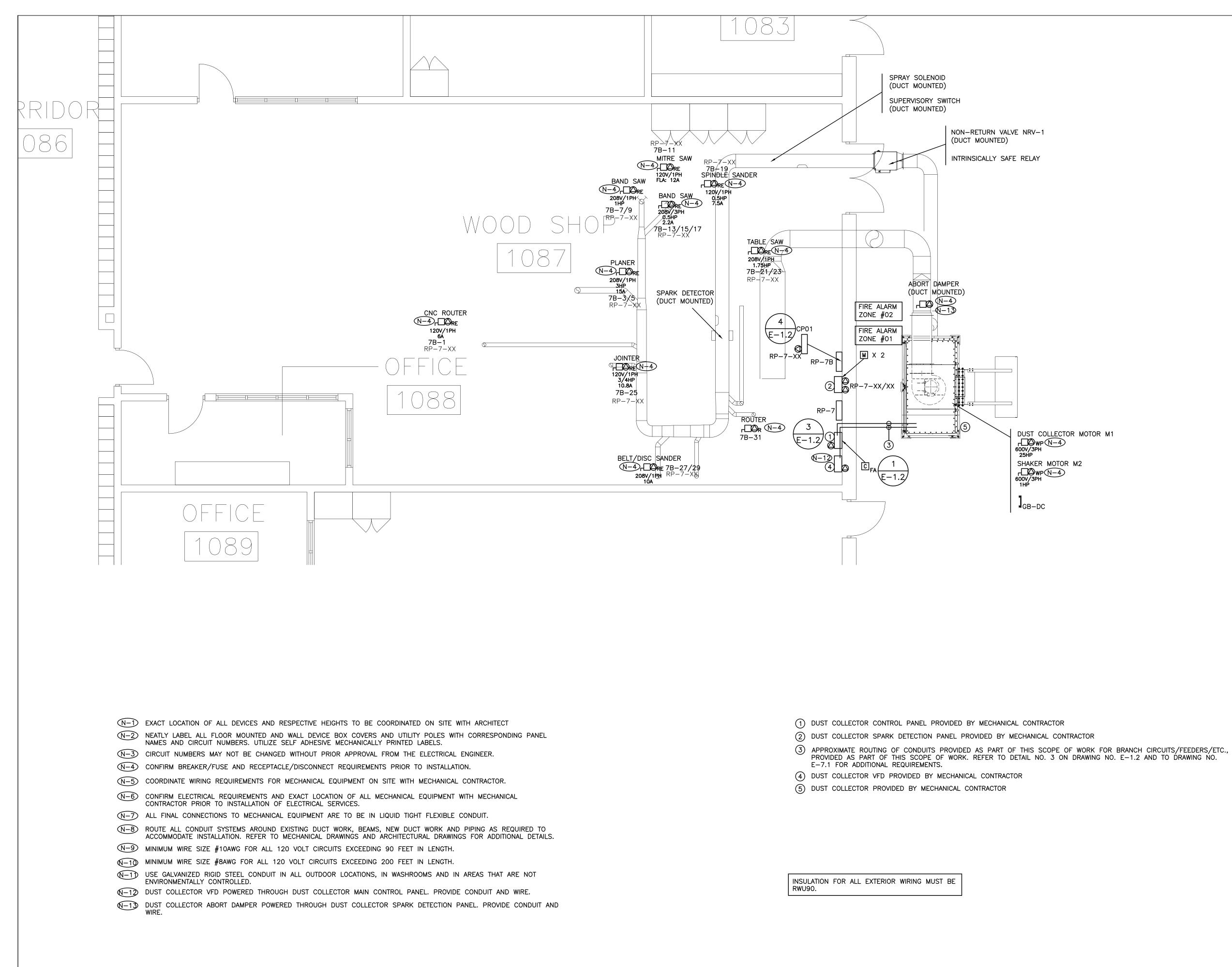
(1) PROVIDE REQUIRED PENETRATIONS THROUGH ROOF AND BUILDING ENVELOP. COORDINATE WORK AND WEATHERPROOF SEALING REQUIREMENTS WITH LANDLORD.

(4) EXISTING RECEPTACLE PANEL – 120/208V/3PH/4W/225A MAINS/84 CCT/EATON PRL1 A/10KA RMS

(6) RECEPTACLE PANEL – 120/208V/3PH/4W/100A MCB/42 CCT/SQ D NQ/22KA RMS

(7) RELAY PANEL PROVIDED AS PART OF THIS SCOPE OF WORK. REFER TO DETAIL NO. 3 ON DRAWING NO. E-1.2

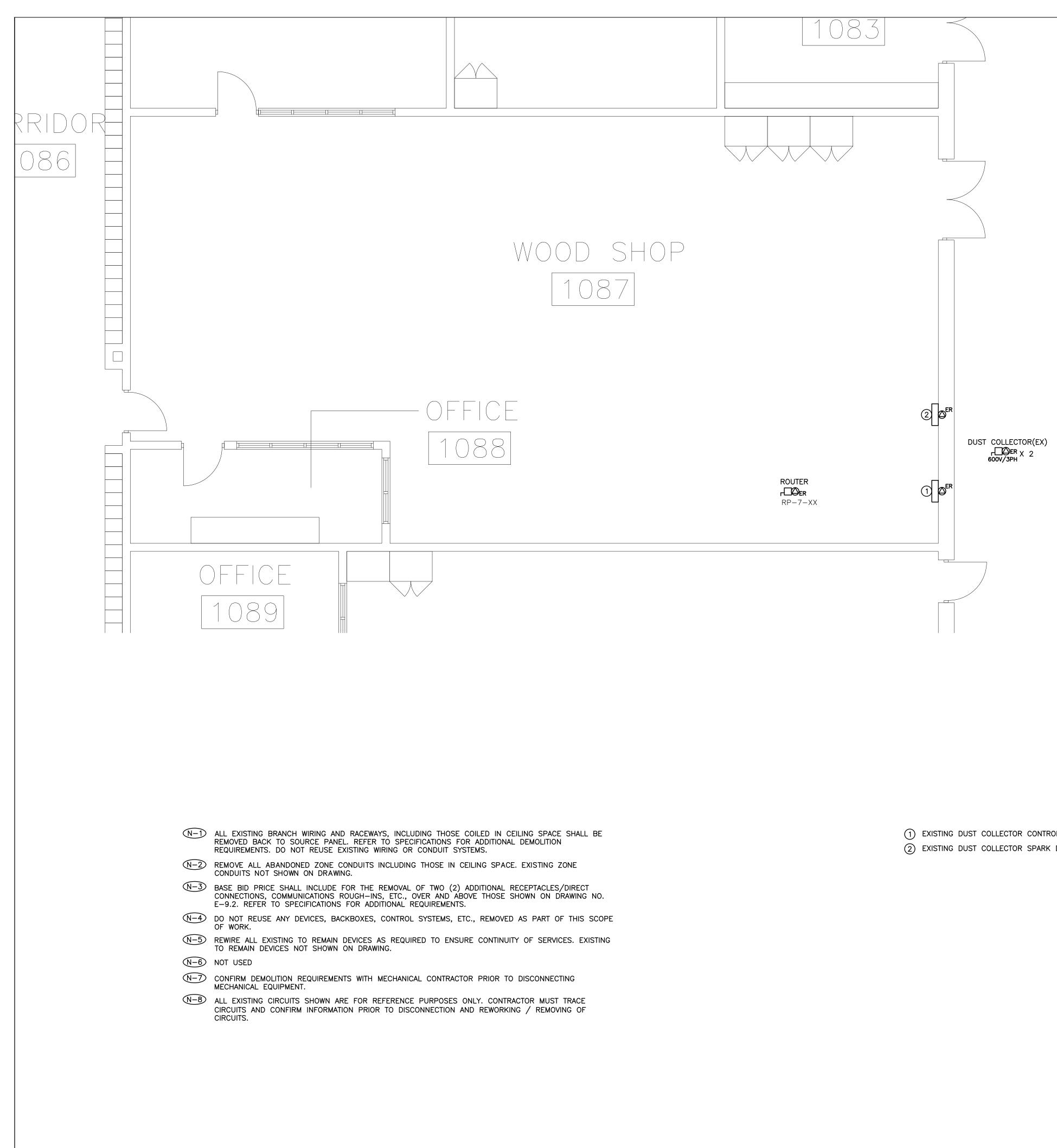
(9) EXISTING DUST COLLECTOR MAIN CONTROL PANEL C/W SPARK DETECTION PANEL TO BE REMOVED BY



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DO NOT SCALE THE DRAWINGS

CHECK AND VERIFY ALL DIMENSIONS AT THE SITE.



(1) EXISTING DUST COLLECTOR CONTROL PANEL TO BE REMOVED BY MECHANICAL CONTRACTOR. (2) EXISTING DUST COLLECTOR SPARK DETECTION PANEL TO BE REMOVED BY MECHANICAL CONTRACTOR.

CHECK ALL DR COPYR UPON F WITHOU DRAWII	T SCALE THE DRAWINGS AND VERIFY ALL DIMEN AWINGS, SPECIFICATION IGHT PROPERTY OF THE REQUEST. REPRODUCTI UT THE PERMISSION OF NGS ARE NOT TO BE USI EALED BY THE CONSULT	SIONS AT THE SITE. NS AND RELATED DOO CONSULTANT AND N ON OF DRAWINGS IN THE CONSULTANT IS ED FOR CONSTRUCTI	IUST BE RE PART OR V FORBIDDE	eturned Vhole En.					
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