Port Perry High School Gym Change Room Renovations **Durham District School Board**

160 Rosa Street, Port Perry, Ontario

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PART PLANS

PART REFLECTED CEILING PLANS

INTERIOR ELEVATIONS

INTERIOR ELEVATIONS

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PART FOUNDATION PLAN AND DETAILS

PART FRAMING PLAN AND DETAILS

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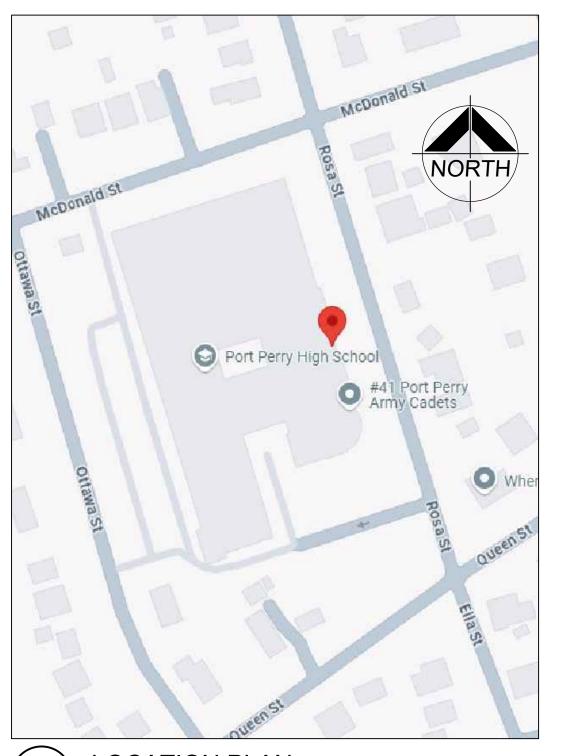
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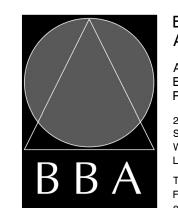
ELECTRICAL DEMOLITION PLANS - CHANGE ROOMS





CONSULTANTS

ARCHITECTURAL/STRUCTURAL:



ASSOCIATES Architects Engineers

Project Managers 250 Water St. Whitby, Ontario Tel: (905) 666-5252 Fax: (905) 666-5256 e-mail: bba@bba-archeng.com MECHANICAL:



ELECTRICAL:

HCC ENGINEERING DESIGN AND TECHNOLOGY SERVICES GROUP HCC ENGINEERING LIMITED 40 EGLINTON AVENUE EAST, SUITE 401 TORONTO, ONTARIO, M4P 3A2 Tel: (416) 932-2423

	(905) - 666 - 5252 ento) (905) - 427 - 4499 (905) - 666 - 5256	5	
		OL GYM CHANGE ROOM RENOVATIONS	
	ROX. RENOVATION A ATION OF PROJECT:		
	T PERRY HIGH SCHO	OOL 160 ROSA ST, PORT PERRY, ON L9L 1L7	
	RUARY 2025		
		Ontario Building Code Data Matrix Part 11 - Renovation of Existing Building	OBC Reference
	Building Code Version		
11.01	Project Type:	☐ Addition ☐ Renovation ☐ Addition and Renovation ☐ Change of use	[A] 1.3.3.3B
11.02	Major Occupancy Classification:	Description INTERIOR GROUND FLOOR GYM CHANGE ROOM RENOVATION Occupancy Use SECONDARY SCHOOL -	3.1.2.1.(1), 2.1.4.1.(1) 10.1.1.2, and 11.2.1.
11.03	Superimposed Major Occupancies:		11.2, 3.2.2.5 to 3.2.2.8 and 2.2.1
11.04	Building Area (m²)	Description	[A] 1.4.1.2., 11.2
		GROUND FLOOR 12173 - 12173 SECOND FLOOR 4053 - 4053 THIRD FLOOR 967 - 967 Total= 17193 - 17193	and 11.3
11.05	Building Height	THREE Storeys above grade EX. ±13 (m) Above grade ZERO Storeys below grade	[A] 1.4.1.2, 3.2.1.1, 2.2.2.2 and 11.3
11.06	Number of streets/ fire fighter access:	THREE street(s)	3.2.2.10, 3.2.5, 2.2.4.1 and 11.3
11.07	Building Size:	☐ Small ☐ Medium ☑ Large ☐ > Large	11.2.1.1 and T.11.2.1.1.BN.
11.08	Existing Building Classification:	Change in Major Occupancy: ☐ Yes ☐ Not Applicable (no change of major occupancy) Construction Index:5 Hazard Index:6 Importance Category: ☐ Low ☐ Normal ☐ High ☐ Post-disaster	10.1.1.2, 11.2.1.1 T11.2.1.1A T11.2.1.1B to N, 4.1.2.1(3), 2.3.1 & 5.2.2.1.(2)
11.09	Renovation Type:	☑ Basic Renovation ☐ Extensive Renovation	11.3.3.1 & 11.3.3.2
11.10	Occupant Load:	Floor Level/ Area Occupancy Based On Occup. Load Type (persons) TOTAL LOAD ASSEMBLY DESIGN 1000	3.1.17, 2.1.2.2 and 11.4.2.2.
1.11a	Plumbing Fixture Requirements:	Ratio: Male/Female = 50:50 Except as noted otherwise Floor level/ Area	3.7.4, 11.3.4, 11.3.5, 11.4.2.4 & 11.4.2.5.
1.11b	Plumbing Fixture Requirements:	Floor level/ Area B.F. WC's Universal Universal (Repeated) Required Provided Washrooms Washrooms	Tables 3.8.2.3.A
	cont.	(Repeated) Required Provided Washrooms Washrooms Required Provided NO CHANGE 1 (NEW) 1 (EX)	and 3.8.2.3.B
11.12	Barrier-free Design:	Yes No Explaination FOR EXTENTS OF RENOVATION ONLY. NEW BARRIER FREE WASHROOM (1) AND	11.3.1.2, 11.3.2, 11.3.3.2
11.13	Entrances: Reduction in Performance Level:	Number Explaination SHOWERS (2) Structural	11.4.2.1 11.4.2.2
	T GHOIMANGE LEVEI.	By change of major occupancy:	11.4.2.3 11.4.2.4 11.4.2.5 11.4.2.6
		Combustible Constituction.	
		☐ Yes	11.4.2.1
11.14	Compensating Construction:	Structural ✓ No ✓ Yes By Increase in occupant load: ✓ No ☐ Yes By change of major occupancy: ✓ No ☐ Yes Plumbing ✓ No ☐ Yes Plumbing ✓ No ☐ Yes Sewage - system: ✓ No ☐ Yes Extension of buildings of ✓ No ☐ Yes Combustible Construction:	11.4.2.1 11.4.2.2 11.4.2.3 11.4.2.4 11.4.2.5 11.4.2.6 11.4.2.7
1.14	Construction:	Structural By Increase in occupant load: By change of major occupancy: Plumbing Sewage - system: Extension of buildings of No Yes No Yes No Yes No Yes No Yes	11.4.2.2 11.4.2.3 11.4.2.4 11.4.2.5 11.4.2.6
	Construction: Compliance Alternatives Proposed:	Structural By Increase in occupant load: By change of major occupancy: Plumbing Sewage - system: Extension of buildings of Combustible Construction:	11.4.2.2 11.4.2.3 11.4.2.4 11.4.2.5 11.4.2.6 11.4.2.7

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3	ISSUED FOR TENDER	FEB. 19 2025	BBA

NO.	REVISIONS	DATE	ВҮ

PROJECT:

PORT PERRY HIGH SCHOOL **GYM RENOVATIONS**

160 ROSA STREET PORT PERRY, ONTARIO DURHAM DISTRICT SCHOOL BOARD

DRAWING:

LOCATION PLAN & LIST OF DRAWINGS



LICENCE

ASSOCIATES Architects Engineers Project Managers 250 Water Street Suite 201 Whitby, Ontario L1N 0G5

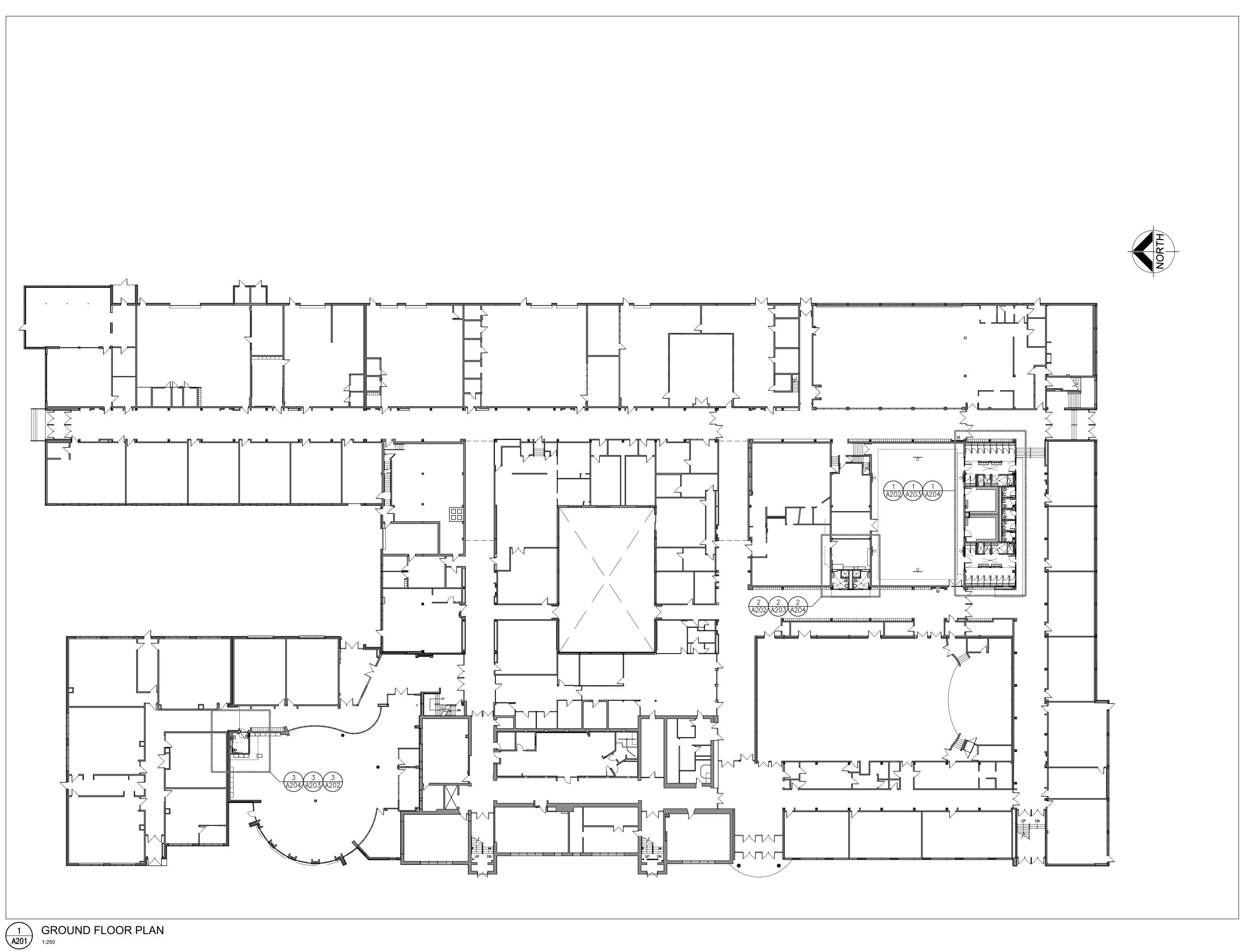
CM/CC **NOVEMBER 2024** Tel: (905) 666-5252 AS NOTED

DESIGN BY:

Fax: (905) 666-5256 e-mail: bba@bba-archeng.com PROJECT NO:

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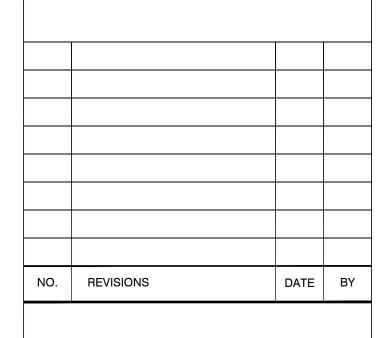
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PROJECT:

PORT PERRY HIGH SCHOOL **GYM RENOVATIONS**

160 ROSA STREET PORT PERRY, ONTARIO DURHAM DISTRICT SCHOOL BOARD

DRAWING:

OVERALL GROUND FLOOR PLAN





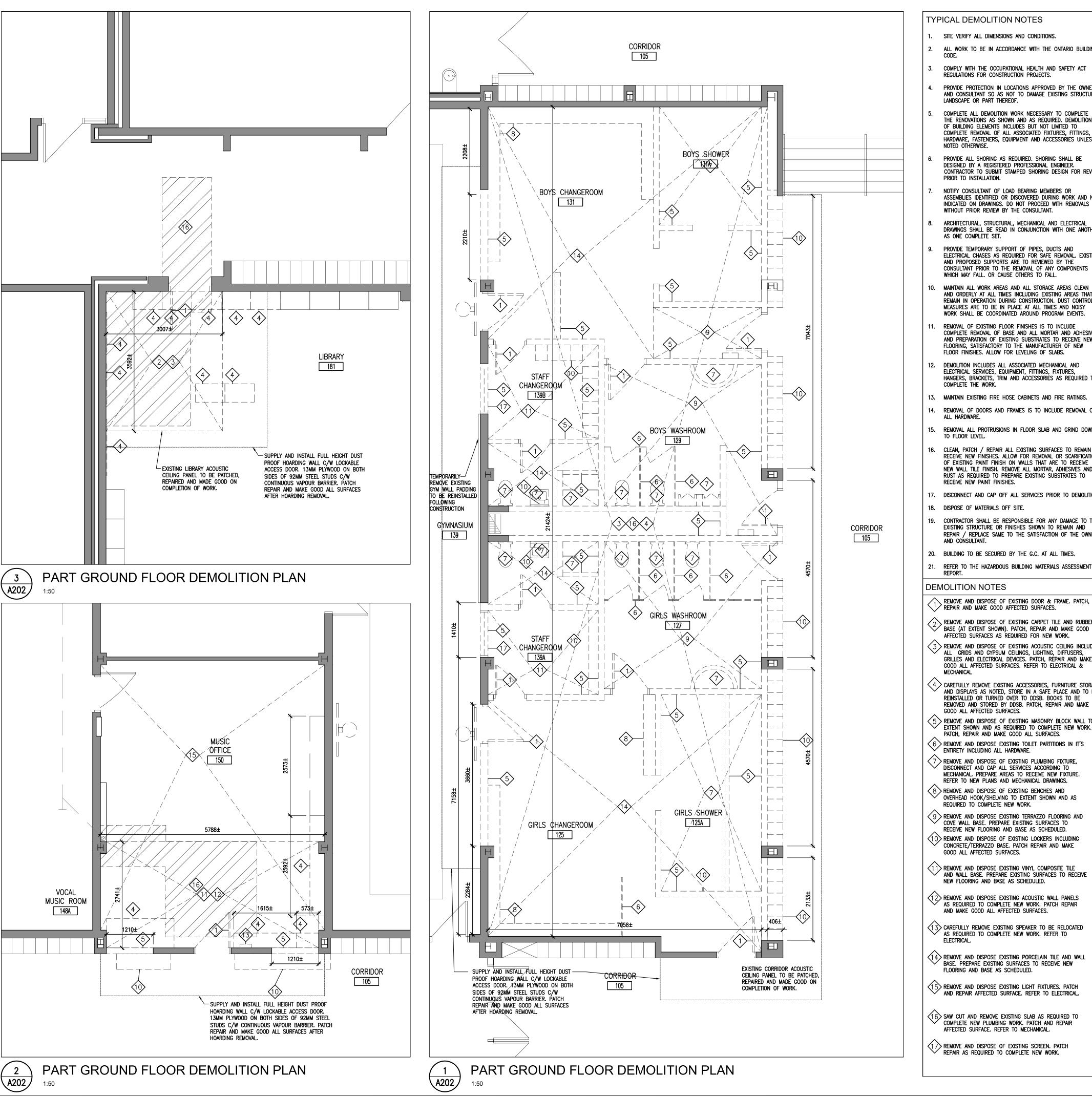
BARRY BRYAN ASSOCIATES Architects Engineers Project Managers

DESIGN BY: B**IR/A** CHECKED BY: GM/CC Date: **Oxici**n/**Endeser** 2024

250 Water Street Suite 201 Whitby, Ontario L1N 0G5 Tel: (905) 666-5252 Fax: (905) 666-5256 e-mail: bba@bba-archeng.com

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TYPICAL DEMOLITION NOTES

- SITE VERIFY ALL DIMENSIONS AND CONDITIONS.
- 2. ALL WORK TO BE IN ACCORDANCE WITH THE ONTARIO BUILDING
- 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,
- 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.

LANDSCAPE OR PART THEREOF.

- PROVIDE ALL SHORING AS REQUIRED. SHORING SHALL BE DESIGNED BY A REGISTERED PROFESSIONAL ENGINEER. CONTRACTOR TO SUBMIT STAMPED SHORING DESIGN FOR REVIEW PRIOR TO INSTALLATION.
- 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.
- ARCHITECTURAL, STRUCTURAL, MECHANICAL AND ELECTRICAL DRAWINGS SHALL BE READ IN CONJUNCTION WITH ONE ANOTHER AS ONE COMPLETE SET.
- PROVIDE TEMPORARY SUPPORT OF PIPES, DUCTS AND ELECTRICAL CHASES AS REQUIRED FOR SAFE REMOVAL. EXISTING AND PROPOSED SUPPORTS ARE TO REVIEWED BY THE CONSULTANT PRIOR TO THE REMOVAL OF ANY COMPONENTS WHICH MAY FALL. OR CAUSE OTHERS TO FALL.
- 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. REMOVAL OF EXISTING FLOOR FINISHES IS TO INCLUDE
- COMPLETE REMOVAL OF BASE AND ALL MORTAR AND ADHESIVES AND PREPARATION OF EXISTING SUBSTRATES TO RECEIVE NEW FLOORING, SATISFACTORY TO THE MANUFACTURER OF NEW FLOOR FINISHES. ALLOW FOR LEVELING OF SLABS.
- 12. DEMOLITION INCLUDES ALL ASSOCIATED MECHANICAL AND ELECTRICAL SERVICES, EQUIPMENT, FITTINGS, FIXTURES, HANGERS, BRACKETS, TRIM AND ACCESSORIES AS REQUIRED TO COMPLETE THE WORK.
- 13. MAINTAIN EXISTING FIRE HOSE CABINETS AND FIRE RATINGS.
- 14. REMOVAL OF DOORS AND FRAMES IS TO INCLUDE REMOVAL OF ALL HARDWARE.
- 15. REMOVAL ALL PROTRUSIONS IN FLOOR SLAB AND GRIND DOWN to floor level.
- 6. CLEAN, PATCH / REPAIR ALL EXISTING SURFACES TO REMAIN TO RECEIVE NEW FINISHES. ALLOW FOR REMOVAL OR SCARIFICATION OF EXISTING PAINT FINISH ON WALLS THAT ARE TO RECEIVE NEW WALL TILE FINISH. REMOVE ALL MORTAR, ADHESIVES AND RUST AS REQUIRED TO PREPARE EXISTING SUBSTRATES TO RECEIVE NEW PAINT FINISHES.
- 17. DISCONNECT AND CAP OFF ALL SERVICES PRIOR TO DEMOLITION.
- 18. DISPOSE OF MATERIALS OFF SITE.
- 19. 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.
- 20. BUILDING TO BE SECURED BY THE G.C. AT ALL TIMES.
- REFER TO THE HAZARDOUS BUILDING MATERIALS ASSESSMENT

DEMOLITION NOTES

- REMOVE AND DISPOSE OF EXISTING DOOR & FRAME. PATCH, REPAIR AND MAKE GOOD AFFECTED SURFACES.
- REMOVE AND DISPOSE OF EXISTING CARPET TILE AND RUBBER BASE (AT EXTENT SHOWN). PATCH, REPAIR AND MAKE GOOD
- AFFECTED SURFACES AS REQUIRED FOR NEW WORK. 3 REMOVE AND DISPOSE OF EXISTING ACOUSTIC CEILING INCLUDING ALL GRIDS AND GYPSUM CEILINGS, LIGHTING, DIFFUSERS, GRILLES AND ELECTRICAL DEVICES, PATCH, REPAIR AND MAKE GOOD ALL AFFECTED SURFACES. REFER TO ELECTRICAL &
- MECHANICAL 4 CAREFULLY REMOVE EXISTING ACCESSORIES, FURNITURE STORAGE AND DISPLAYS AS NOTED, STORE IN A SAFE PLACE AND TO BE REINSTALLED OR TURNED OVER TO DDSB. BOOKS TO BE REMOVED AND STORED BY DDSB. PATCH, REPAIR AND MAKE
- GOOD ALL AFFECTED SURFACES. 5 REMOVE AND DISPOSE OF EXISTING MASONRY BLOCK WALL TO EXTENT SHOWN AND AS REQUIRED TO COMPLETE NEW WORK.
- PATCH, REPAIR AND MAKE GOOD ALL SURFACES. 6 remove and dispose existing toilet partitions in it's ENTIRETY INCLUDING ALL HARDWARE.
- 7 REMOVE AND DISPOSE OF EXISTING PLUMBING FIXTURE, DISCONNECT AND CAP ALL SERVICES ACCORDING TO MECHANICAL. PREPARE AREAS TO RECEIVE NEW FIXTURE. REFER TO NEW PLANS AND MECHANICAL DRAWINGS.
- 8 remove and dispose of existing benches and OVERHEAD HOOK/SHELVING TO EXTENT SHOWN AND AS REQUIRED TO COMPLETE NEW WORK.
- COVE WALL BASE. PREPARE EXISTING SURFACES TO RECEIVE NEW FLOORING AND BASE AS SCHEDULED. 10> REMOVE AND DISPOSE OF EXISTING LOCKERS INCLUDING CONCRETE/TERRAZZO BASE. PATCH REPAIR AND MAKE GOOD ALL AFFECTED SURFACES.
- 1 1> REMOVE AND DISPOSE EXISTING VINYL COMPOSITE TILE AND WALL BASE. PREPARE EXISTING SURFACES TO RECEIVE NEW FLOORING AND BASE AS SCHEDULED.
- AS REQUIRED TO COMPLETE NEW WORK. PATCH REPAIR AND MAKE GOOD ALL AFFECTED SURFACES. CAREFULLY REMOVE EXISTING SPEAKER TO BE RELOCATED AS REQUIRED TO COMPLETE NEW WORK. REFER TO
- (14) REMOVE AND DISPOSE EXISTING PORCELAIN TILE AND WALL BASE. PREPARE EXISTING SURFACES TO RECEIVE NEW
- FLOORING AND BASE AS SCHEDULED. 15 REMOVE AND DISPOSE EXISTING LIGHT FIXTURES. PATCH AND REPAIR AFFECTED SURFACE. REFER TO ELECTRICAL.
- 16 SAW CUT AND REMOVE EXISTING SLAB AS REQUIRED TO COMPLETE NEW PLUMBING WORK. PATCH AND REPAIR AFFECTED SURFACE. REFER TO MECHANICAL.
- 17) REMOVE AND DISPOSE OF EXISTING SCREEN. PATCH REPAIR AS REQUIRED TO COMPLETE NEW WORK.

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PROJECT:

NO. REVISIONS

PORT PERRY HIGH SCHOOL **GYM RENOVATIONS**

DATE BY

160 ROSA STREET PORT PERRY, ONTARIO DURHAM DISTRICT SCHOOL BOARD

DRAWING:

PART GROUND FLOOR **DEMOLITION PLANS**



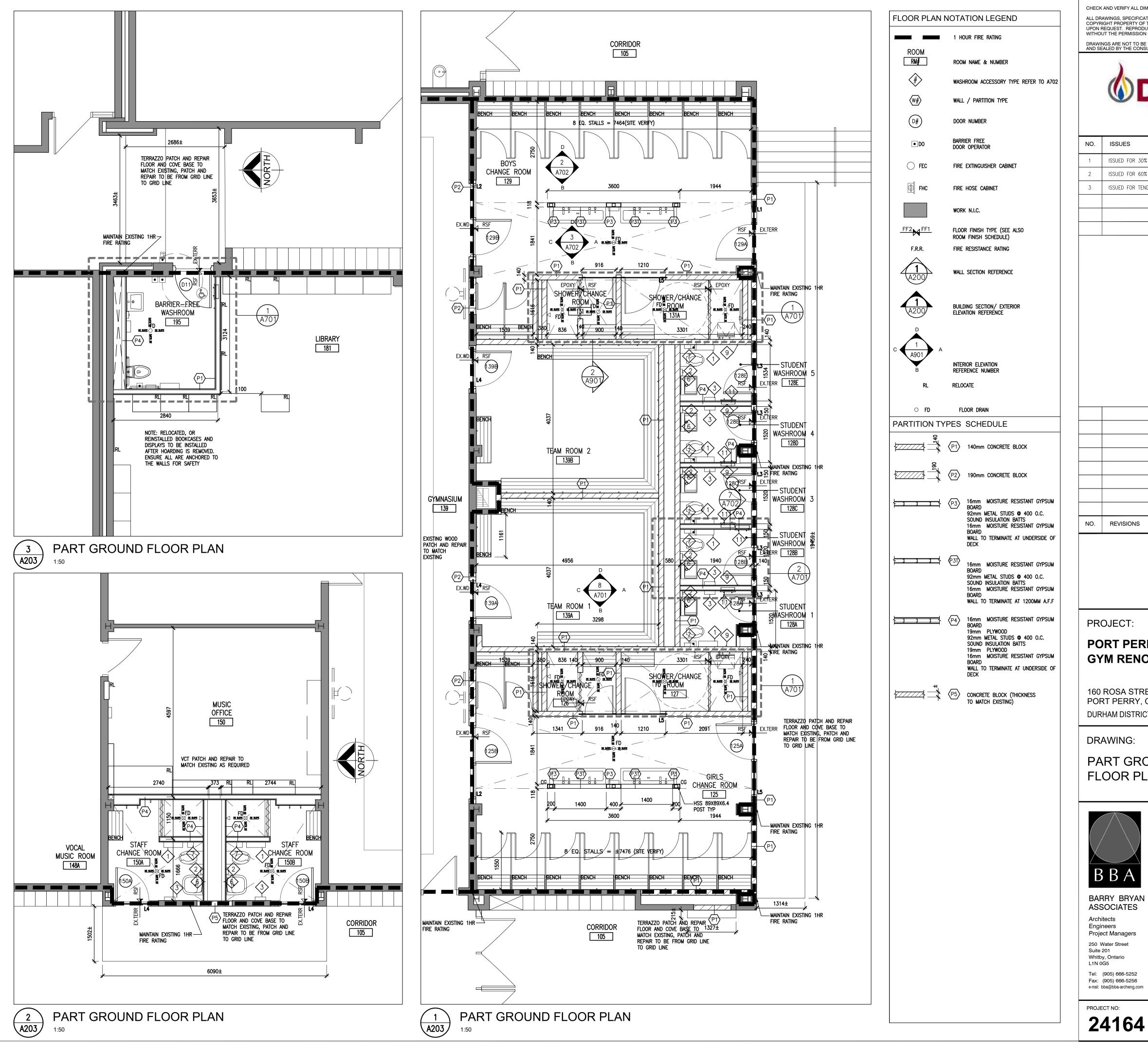
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PORT PERRY HIGH SCHOOL **GYM RENOVATIONS**

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PART GROUND FLOOR PLANS



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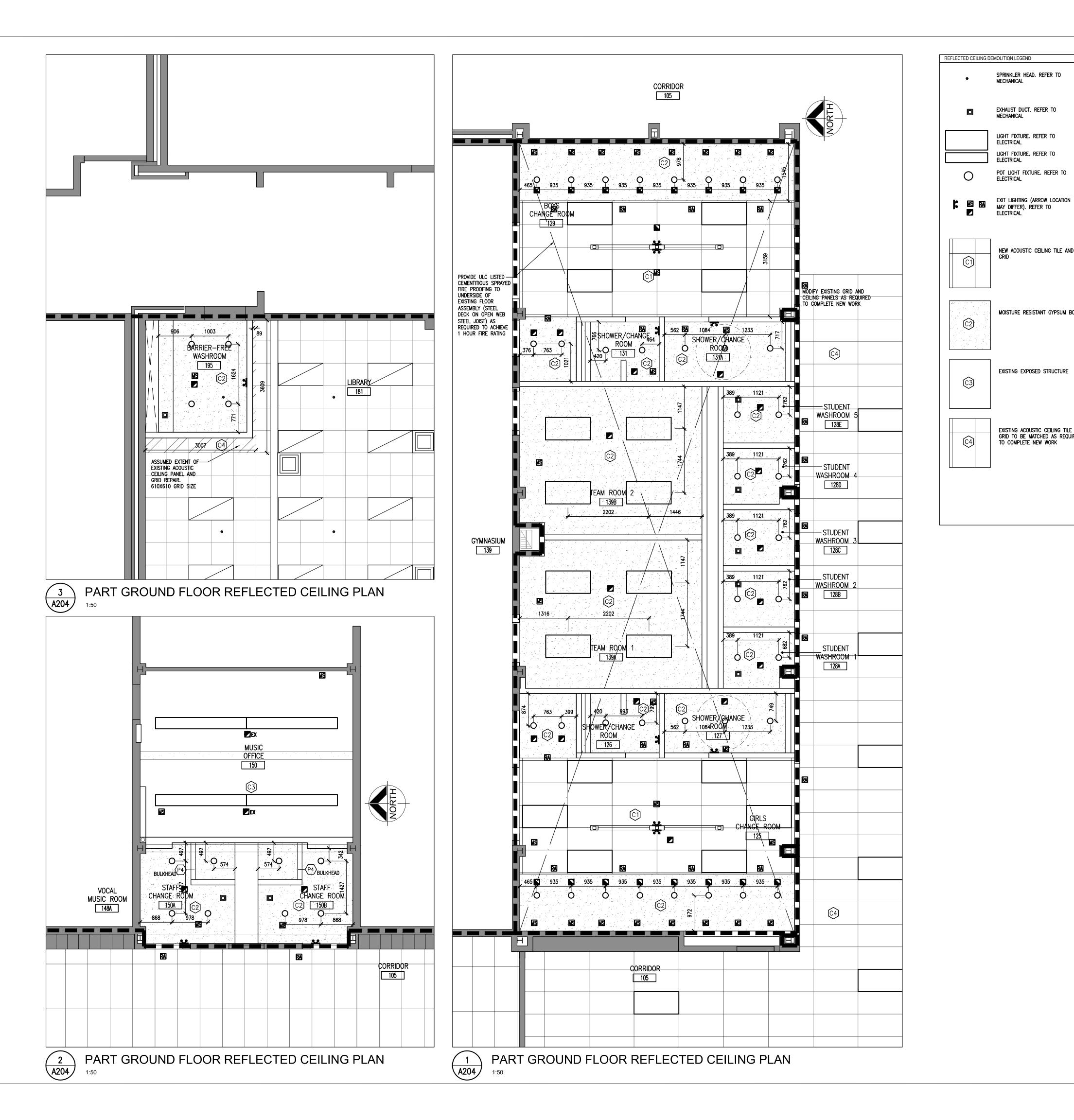
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SPRINKLER HEAD. REFER TO

EXHAUST DUCT. REFER TO

LIGHT FIXTURE. REFER TO

POT LIGHT FIXTURE. REFER TO

NEW ACOUSTIC CEILING TILE AND NEW

MOISTURE RESISTANT GYPSUM BOARD

EXISTING EXPOSED STRUCTURE

EXISTING ACOUSTIC CEILING TILE AND GRID TO BE MATCHED AS REQUIRED TO COMPLETE NEW WORK

MECHANICAL

MECHANICAL

ELECTRICAL

ELECTRICAL

ELECTRICAL



DATE BY

NO. ISSUES

1				רבה ג	
2	ISSUED FOR 6	60% CLIENT	REVIEW	FEB. 4 2025	BBA
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PROJECT:

PORT PERRY HIGH SCHOOL **GYM RENOVATIONS**

160 ROSA STREET PORT PERRY, ONTARIO DURHAM DISTRICT SCHOOL BOARD

DRAWING:

PART GROUND FLOOR REFLECTED CEILING PLAN



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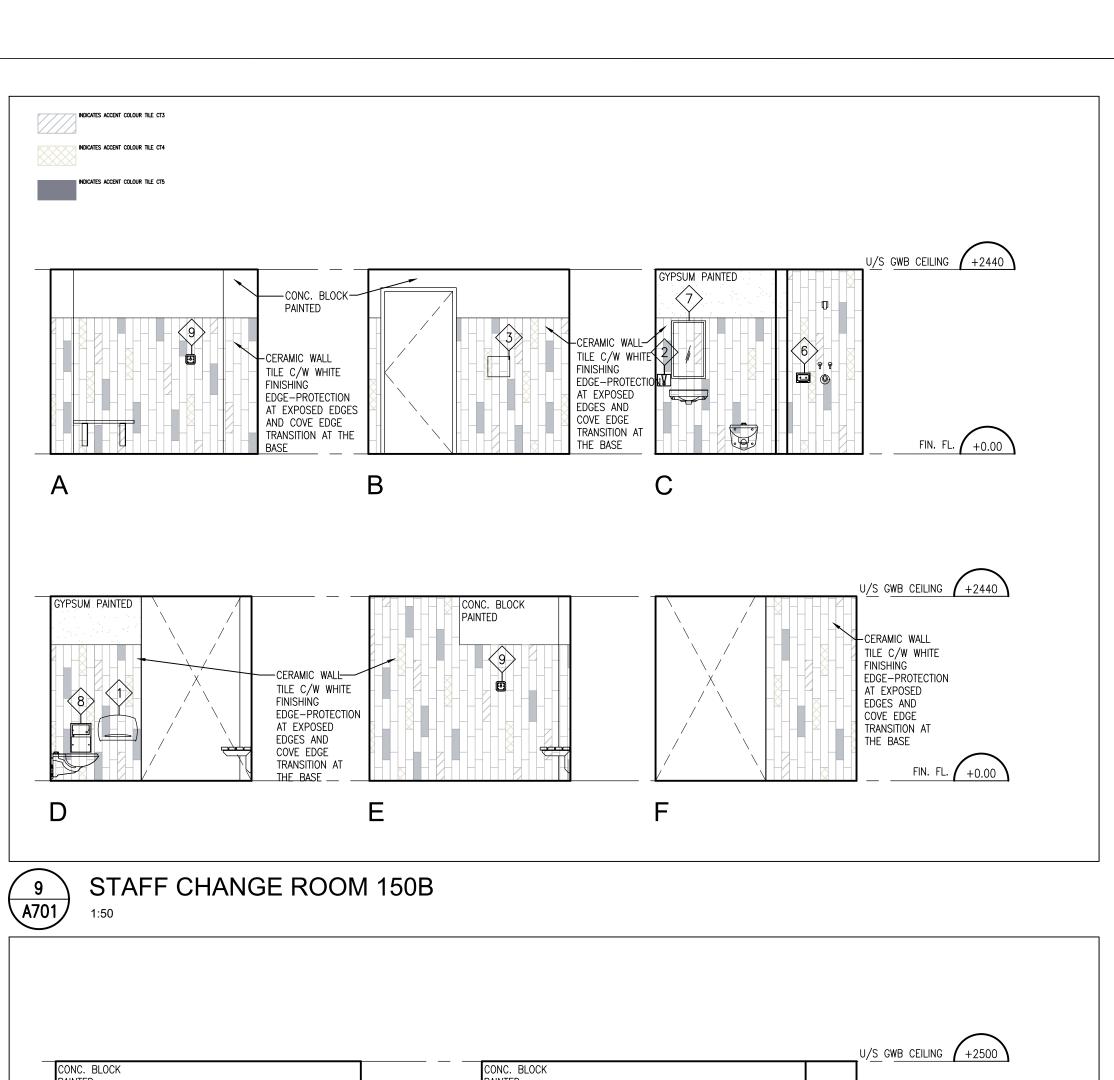
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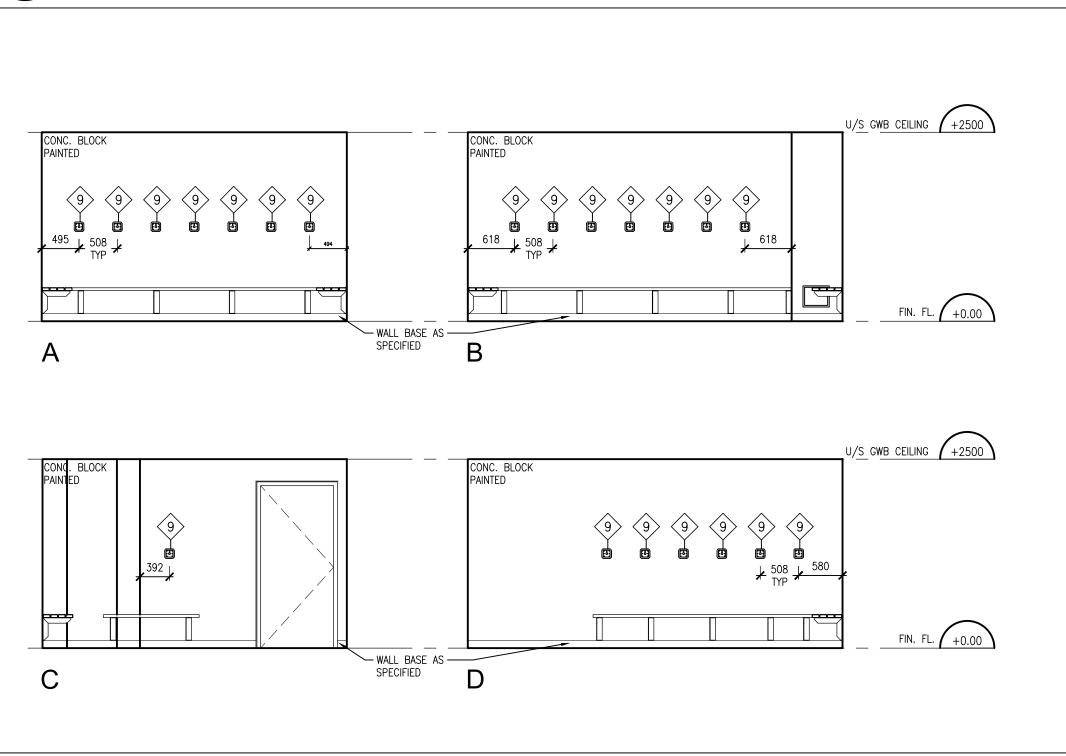
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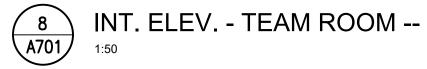
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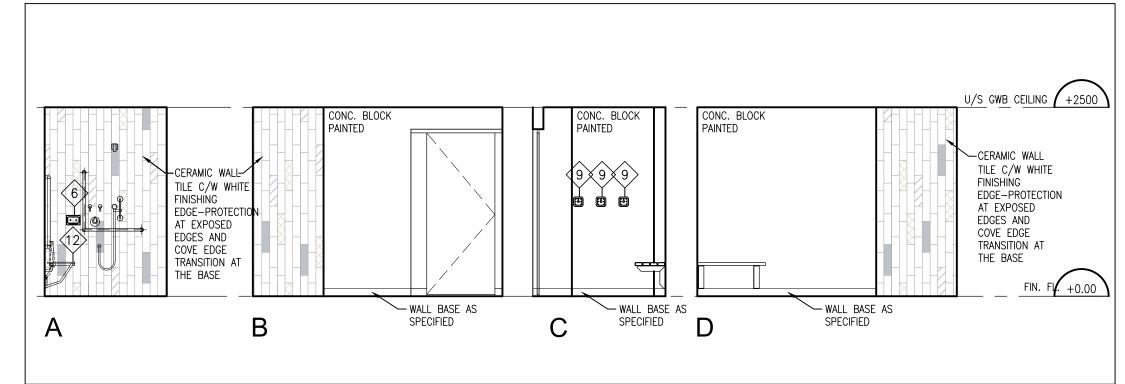
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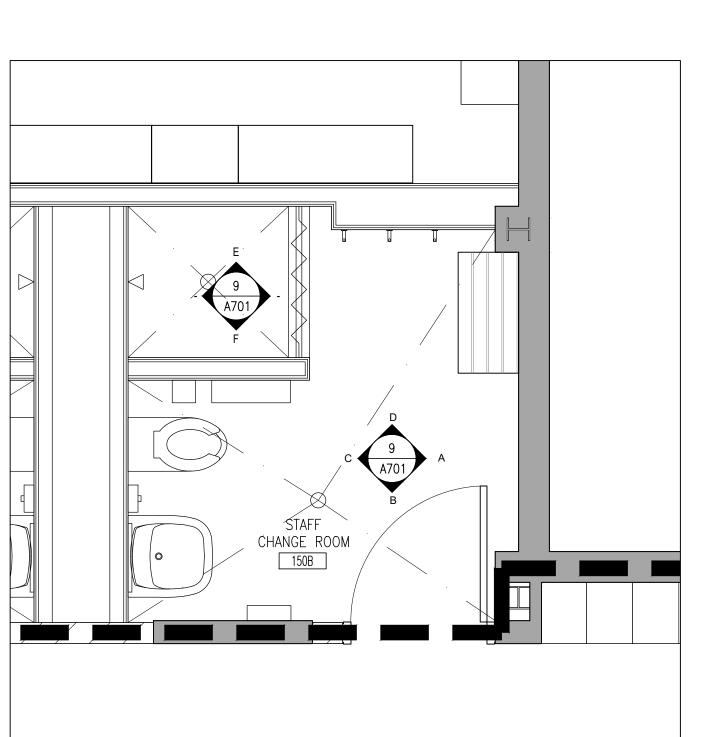




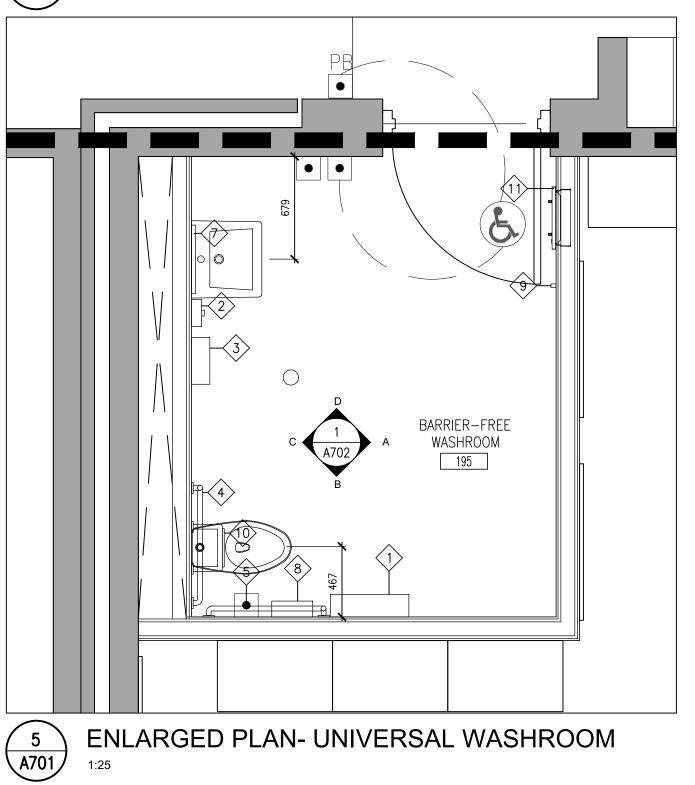


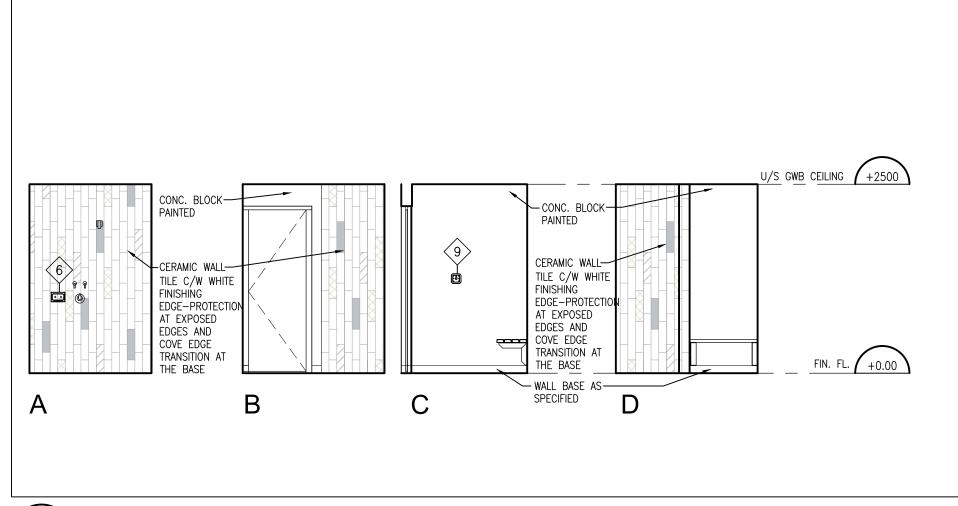


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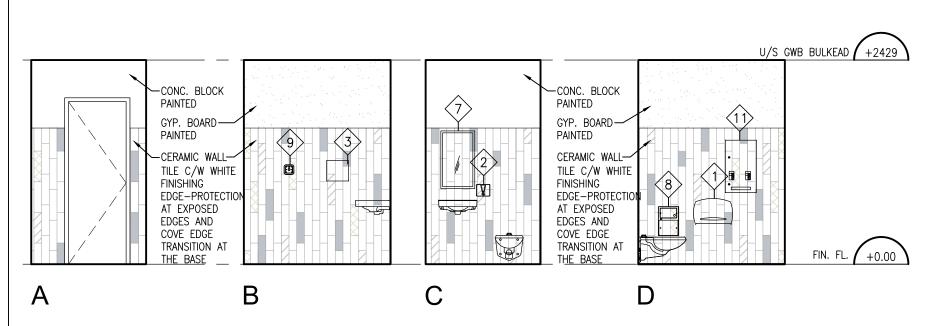


ENLARGED PLAN- STAFF CHANGE ROOM 150B 6 EN 1:25

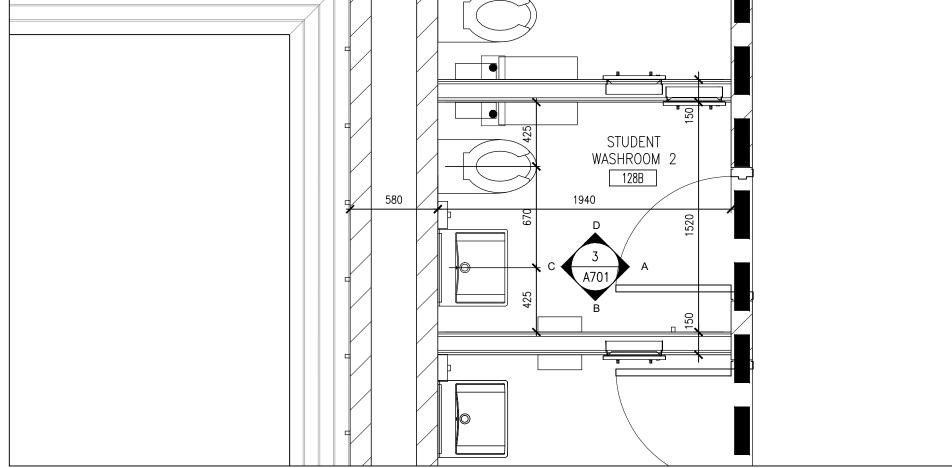




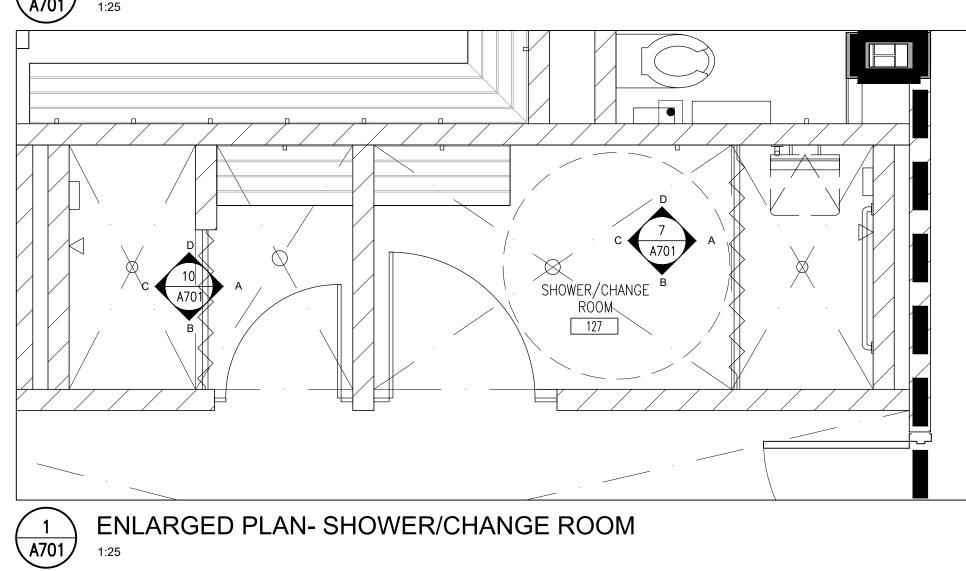
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ENLARGED PLAN- STUDENT WASHROOM 128B (2) A701



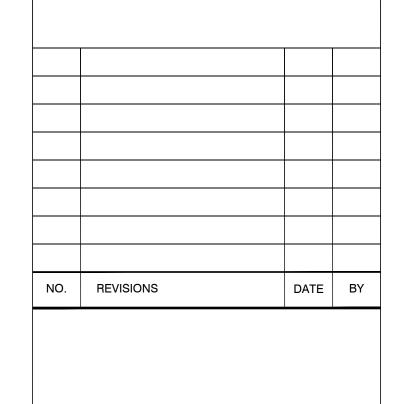
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PROJECT:

PORT PERRY HIGH SCHOOL **GYM RENOVATIONS**

160 ROSA STREET PORT PERRY, ONTARIO DURHAM DISTRICT SCHOOL BOARD

DRAWING:

PART GROUND FLOOR PLANS



LICENCE

BARRY BRYAN ASSOCIATES Architects Engineers Project Managers

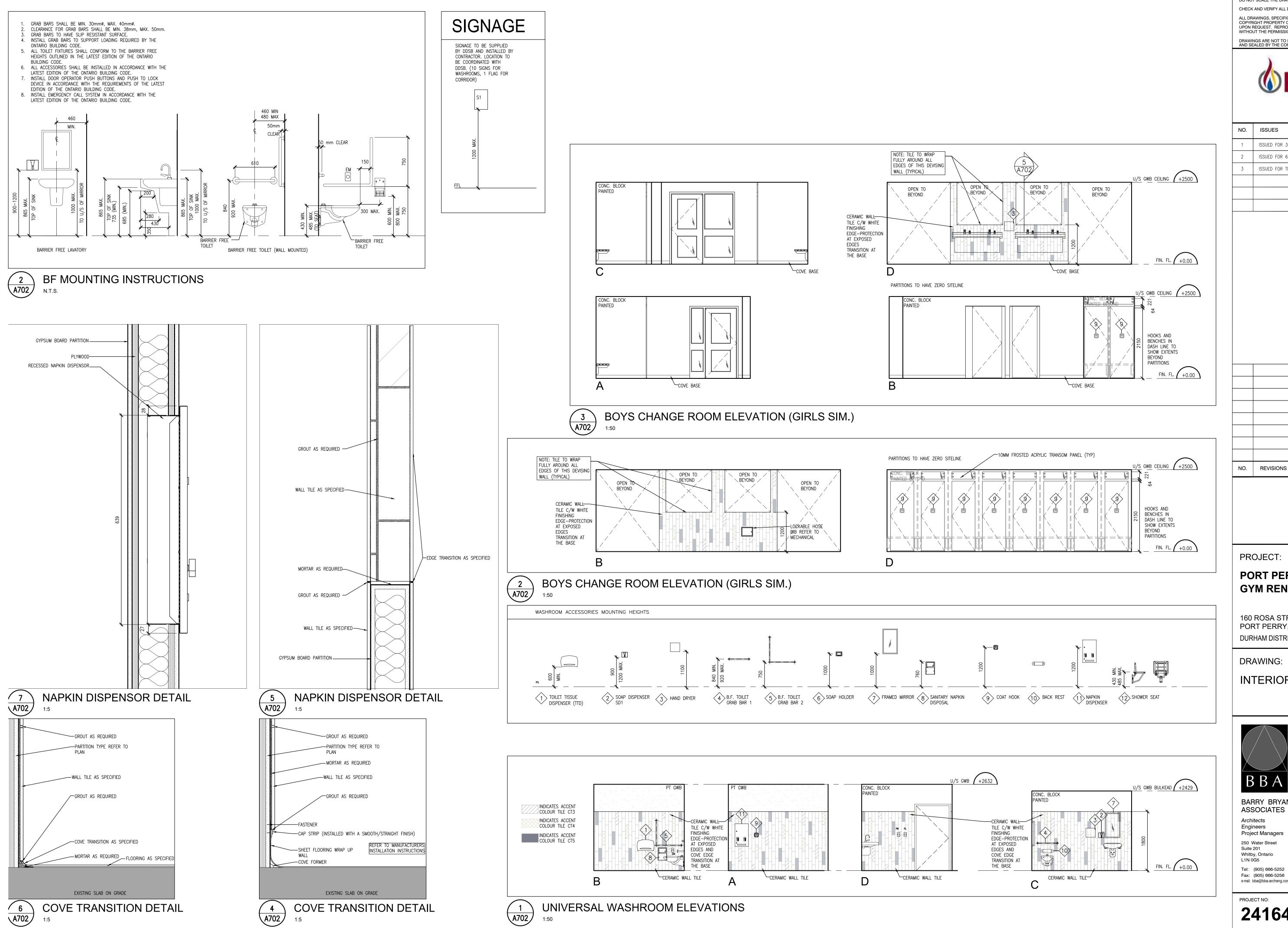
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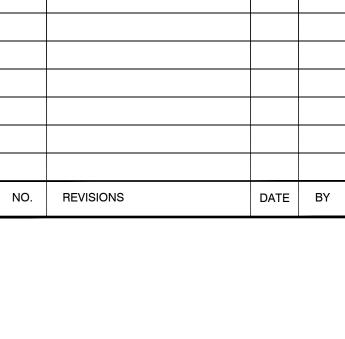
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PORT PERRY HIGH SCHOOL **GYM RENOVATIONS**

160 ROSA STREET PORT PERRY, ONTARIO DURHAM DISTRICT SCHOOL BOARD

DRAWING:

INTERIOR ELEVATIONS





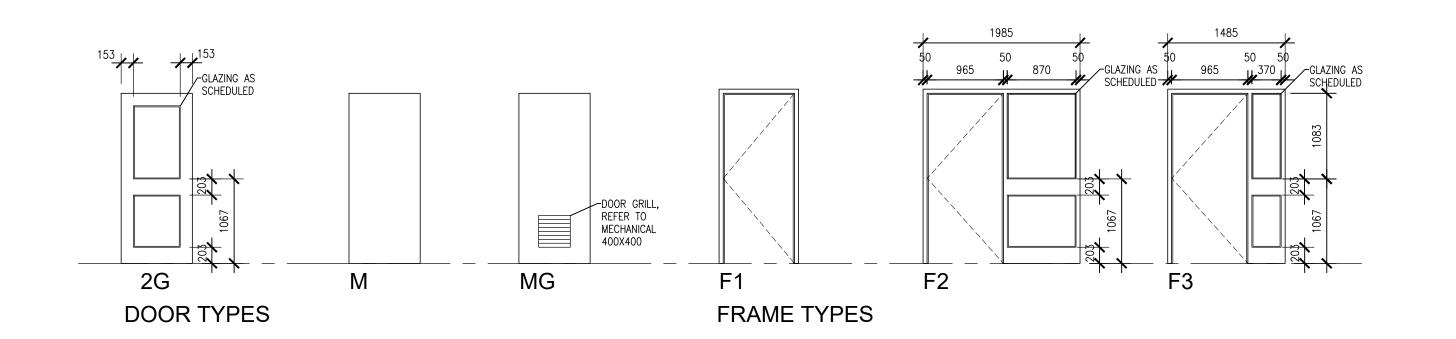
BARRY BRYAN ASSOCIATES Architects Engineers

Project Managers 250 Water Street

GM/CC ONCOTVE210128/ER 2024

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A702



FINISH	ABBREVIATION LEGEND	GENERAL NOTES	
CB CLG CONC CT EPC EX EXP FIN FL FRR G GB HM MTL PS P PI AM	CONCRETE BLOCK CEILING CONCRETE CERAMIC TILE EPOXY COATED CONCRETE EXISTING EXPOSED STRUCTURE FINISHED FLOOR FIRE RESISTANCE RATING GLASS GYPSUM BOARD HOLLOW METAL METAL PRESSED STEEL PAINT PLASTIC LAMINATE	 ALL EXPOSED METAL IN INTERIOR TO BE PAINT FINISH. UNLESS OTHERWISE INDICATED, ALL WALLS SHALL HAVE PAINT FINISH. PAINT GYPSUM BOARD WALLS AND BULKHEADS. ALL EXPOSED DUCTWORK AND PIPING SHALL RECEIVE PAINT FINISH. REFER TO INTERIOR ELEVATIONS FOR ADDITIONAL INFORMATION. BASE PAINTED TO MATCH EXISTING HEIGHT AND COLOUR. WALL TILE TYPE 3: BONE 4" x 12" BRIGHT ALL EXPOSED CONCRETE BLOCK CORNER TO BE BULLNOSED. 	A. GLASS PANELS IN DOORS TO COMPLY WITH BARRIER FREE VISIBILITY REQUIREMENTS. B. PREPARE DOORS AND FRAMES FOR ELECTRONIC HARDWARE WHERE INDICATED. CONDUITS SHALL BE CONCEALED IN FRAMES. C. ALL DOORS IN FIRE SEPARATION LOCATIONS SHALL HAVE LATCHING DEVICE. D. PRESSED STEEL FRAME DEPTHS SHALL BE 146MM UNLESS OTHERWISE NOTED. GLAZING LEGEND FRG FIRE RATED GLAZING
RB SC STL RL	RUBBER BASE SEALED CONCRETE STEEL RELOCATE		TG 6mm TEMPERED GLASS

	DOOR A	AND	FRA	ME S	SCHE	EDUL	E.					DO	OR I	HAR	DWA	RE			REMARKS 1. CONFIRM AND VERIFY ALL EXISTING DOOR / SCREEN OPENINGS
NO		DOOR	MATERIAL	FINIOLI	01.400	FRAME		TAIL	MATERIAL	FINIOLI	FIRE RATING	ALL BEARII	OSEN SOR	ECTRIC	CKSET	OOR STOP	SE TO	MICK PLATE DOOR PULL	 ALL DOORS AND FRAMES TO BE ULC RATED. ALL NEW DOORS AND FRAMES (PAINTED)
NO.	SIZE AND THICKNESS	TYPE	MATERIAL	FINISH	GLASS	TYPE 	HEAD	JAMB	MATERIAL	FINISH		\$ ₹ 6			2 4	i ă	■	_	4. COAT HOOKS BACK OF DOORS (WASHROOMS AND SHOWERS)
D11	965x2150x45	M	HM	P P	- FDC	F1	H2	J2	PS PS	P	45MIN		_			-		•	MANIFITIO LIGITO ADEN
D125A	965x2150x45	2G	HM	P	FRG	F2	H1	J1	PS PS	P	45MIN		_		•	-		•	MAGNETIC HOLD OPEN
D125B	965x2150x45	2G	HM	Г	FRG	F2	H1	J1	PS	'	45MIN	• (_		•	•		_	
D128A	762x2150x45	М	HM	Р		F1	H1	J1	PS	Р	45MIN	•	<u> </u>		•	•	<u> </u>		UNDERCUT DOOR AS PER NFPA
D128B	762x2150x45	М	HM	P		F1	H1	J1	PS	Р	45MIN				•	•			UNDERCUT DOOR AS PER NFPA
D128C	762x2150x45	М	НМ	Р		F1	H1	J1	PS	P	45MIN				•	•		₽	UNDERCUT DOOR AS PER NFPA
D128D	762x2150x45	М	НМ	Р		F1	H1	J1	PS	Р	45MIN	•			•	•		•	UNDERCUT DOOR AS PER NFPA
D128E	762x2150x45	М	НМ	Р		F1	H1	J1	PS	Р	45MIN	•			•	•		•	UNDERCUT DOOR AS PER NFPA
D129A	965x2150x45	2G	НМ	Р	FRG	F3	H1	J1	PS	Р	45MIN	•			•	•		•	MAGNETIC HOLD OPEN
D129B	965x2150x45	2G	НМ	Р	FRG	F2	H1	J1	PS	Р	45MIN	• (•	•		•	
D139A	965x2150x45	MG	НМ	Р	FRG	F1	H1	J1	PS	Р	45MIN	• (•	•		•	
D139B	965x2150x45	MG	НМ	Р	FRG	F1	H1	J1	PS	Р	45MIN	• (•	•		•	
D150A	900x2150x45	М	НМ	Р		F1	H1	J1	PS	Р	45MIN	• (•	•		•	UNDERCUT DOOR AS PER NFPA
D150B	900x2150x45	М	НМ	Р		F1	H1	J1	PS	Р	45MIN				•	•		•	UNDERCUT DOOR AS PER NFPA

						ROC	OM S	CHE	DUL	Ε	
	ROOM		FLOOR	BASE			LLS			CEILING	REMARKS
NO.	ROOM NAME	<u> </u>			NORTH		SOUTH			HEIGHT	
105	CORRIDOR	MAT.	CONC EX.TERR	CB EX.TERR	CB PT	CB PT	CB _	CB _	EX.ACT	3475	PATCH TERAZZO FROM GRID LINE TO GRID LINE, PROVIDE 2 2X2 SAMPLES TO MATCH EXISTING FOR REVIEW. PT1 TO MATCHING EXISTING CORRIDOR PAINT COLOUR.
		COL.		-	PT1	PT1					
105	OIDI C OLIANOT DOOL	MAT.	CONC	СВ	СВ	СВ	СВ	СВ	GWB	2500	REFER TO ELEVATIONS FOR WALL TILE LOCATIONS/PATTERN
125	GIRLS CHANGE ROOM	FIN.	RSF	RSF	PT	PT/CT	PT	PT/CT	PT		
		COL.	RSF CONC	RSF CB	PT2 CB	PT2/CT CB	PT2 CB	PT2/CT CB	PT2 GWB	2500	REFER TO ELEVATIONS FOR WALL TILE LOCATIONS/PATTERN
126	SHOWER/CHANGE ROOM	FIN.	RSF	RSF/EPC	CT	PT/CT	PT/CT	PT/CT	PT		THE ESTATIONS OF THE ESTATIONS/TATEM
		COL.	RSF/EPC		СТ	PT2/CT	PT2/CT	PT2/CT	PT2		
127	SHOWER/CHANGE ROOM	MAT.	CONC RSF/FPC	CB RSF/EPC	CB PT	CB PT/CT	CB CT	CB PT/CT	GWB PT	2500	REFER TO ELEVATIONS FOR WALL TILE LOCATIONS/PATTERN
	S.ISILLY STRITCE INCOME	COL.		RSF/EPC	PT2	PT2/CT	CT	PT2/CT	PT2		
1004	CTUDENT WACUIDOOM 4	MAT.	CONC	CB/GB	СВ	GB	СВ	СВ	GWB	2500	REFER TO ELEVATIONS FOR WALL TILE LOCATIONS/PATTERN
128A	STUDENT WASHROOM 1	FIN.	RSF	RSF	CT/PT	CT/PT	CT/PT	CT/PT	PT		
		COL.	RSF CONC	RSF CB/GB	PT2/CT CB	PT2/CT GB	PT2/CT CB	PT2/CT GB	PT2 GWB	2500	REFER TO ELEVATIONS FOR WALL TILE LOCATIONS/PATTERN
128B	STUDENT WASHROOM 2	FIN.	RSF	RSF	CT/PT	CT/PT	CT/PT	CT/PT	PT		NELEX TO ELEMENTS FOR TIME THE ECONTIONS/TATIENT
		COL.	RSF	RSF	PT2/CT	PT2/CT	PT2/CT	PT2/CT	PT2		
128C	STUDENT WASHROOM 3	MAT.	CONC RSF	CB/GB RSF	CB CT/PT	GB CT/PT	CB CT/PT	GB CT/PT	GWB PT	2500	REFER TO ELEVATIONS FOR WALL TILE LOCATIONS/PATTERN
. 200	OTOBERT WASHINGOW O	COL.	RSF	RSF	PT2/CT	PT2/CT	PT2/CT	PT2/CT	PT2		
	OTHER IN COLUMN	MAT.	CONC	CB/GB	СВ	GB	СВ	GB	GWB	2500	REFER TO ELEVATIONS FOR WALL TILE LOCATIONS/PATTERN
128D	STUDENT WASHROOM 4	FIN.	RSF	RSF	CT/PT	CT/PT	CT/PT	CT/PT	PT		
		COL.	RSF CONC	RSF CB/GB	PT2/CT CB	PT2/CT CB	PT2/CT CB	PT2/CT GB	PT2 GWB	2500	DEEED TO ELEVATIONS FOR WALL THE LOCATIONS (DATTERN
128E	STUDENT WASHROOM 5	FIN.	RSF	RSF	CT/PT	CT/PT	CT/PT	CT/PT	PT	2300	REFER TO ELEVATIONS FOR WALL TILE LOCATIONS/PATTERN
		COL.	RSF	RSF	PT2/CT	PT2/CT	PT2/CT	PT2/CT	PT2		
129	BOYS CHANGE ROOM	MAT.	CONC	CB	СВ	CB	СВ	CB	GWB	2500	REFER TO ELEVATIONS FOR WALL TILE LOCATIONS/PATTERN
123	DOTS CHANGE ROOM	FIN.	RSF RSF	RSF RSF	PT PT2	PT/CT PT2/CT	PT PT2	PT/CT PT2/CT	PT PT2		
		MAT.	CONC	CB	CB	CB	CB	CB	GWB	2500	REFER TO ELEVATIONS FOR WALL TILE LOCATIONS/PATTERN
131	SHOWER/CHANGE ROOM	FIN.	RSF/EPC	RSF/EPC	СТ	PT/CT	PT/CT	PT/CT	PT		,
		COL.	 	RSF/EPC	СТ	PT2/CT	PT2/CT	PT2/CT	PT2	0500	DESERVITOR FOR WHAT THE ADDITION OF THE PROPERTY OF THE PROPER
131A	SHOWER/CHANGE ROOM	MAT.	CONC RSF/EPC	CB RSF/EPC	PT	CB PT/CT	CB CT	CB PT/CT	GWB PT	2500	REFER TO ELEVATIONS FOR WALL TILE LOCATIONS/PATTERN
		COL.		RSF/EPC		PT2/CT	CT	PT2/CT	PT2		
170	CAMNACILIM	MAT.	EX.CONC		_	_	СВ	-	EX.		PATCH WOOD TO MATCH EXISTING. PT3 TO MATCHING EXISTING GYM PAINT COLOUR.
139	GYMNASIUM	FIN.	EX. WD	EX.	_	_	PT PT3	_	-		
		COL.	CONC	CB	CB	CB	CB	CB	GWB	2500	
139A	TEAM ROOM 1	FIN.	RSF	RB	PT	PT	PT	PT	PT		
		COL.	RSF	RB	PT2	PT2	PT2	PT2	PT2	0555	
139B	TEAM ROOM 2	MAT.	CONC RSF	CB RB	CB PT	CB PT	CB PT	CB PT	GWB PT	2500	
		COL.	RSF	RB	PT2	PT2	PT2	PT2	PT2		
1404	MOON MICIO DOOM	MAT.	CONC	СВ	СВ	CB	СВ	СВ	EX.	_	
148A	VOCAL MUSIC ROOM	FIN.	EX.VCT	_	_	_	-	_	-		
		COL.	CONC	CB	CB	- CB	CB	CB	EXP	2440	PATCH FLOOR AND BASE TO MATCH EXISTING. 2875 TO
150	MUSIC OFFICE	FIN.	EX.VCT	RB	PT	PT	PT	PT	PT	2.10	UNDERSIDE OF DECK
		COL.		RB	PT2	PT2	PT2	PT2	PT2		
150A	STAFF CHANGE ROOM	MAT.	CONC RSE/EDC	CB/GB RSF/EPC	CB CT/PT	GWB CT/PT	GWB CT/PT	CB CT/PT	GWB	2440	REFER TO ELEVATIONS FOR WALL TILE LOCATIONS/PATTERN
	SITH SITHIOL NOON	FIN.	,	RSF/EPC		PT2/CT	PT2/CT	PT2/CT	PT PT2		
	ATAPP ALLANDS 5000	MAT.	CONC	CB/GB	GWB	GWB	СВ	CB	GWB	2440	REFER TO ELEVATIONS FOR WALL TILE LOCATIONS/PATTERN
150B	STAFF CHANGE ROOM	FIN.		RSF/EPC		CT/PT	CT/PT	CT/PT	PT		
		COL.	RSF/EPC CONC	RSF/EPC CB	PT2/CT	·	PT2/CT	<u> </u>		2672	DATCH FLOOD BASE AND DAINT TO MATCH EVICTIME LIDDADY
181	LIBRARY	MAT.	EX.CPT	RB CB	CB PT	CB PT	CB -	CB -	EX. –	2632	PATCH FLOOR, BASE AND PAINT TO MATCH EXISTING LIBRARY. MODIFY EXISTING ACOUSTIC CEILING GRID AND TILE AS
		COL.		RB	PT2	PT2	_				REQUIRED TO COMPLETE NEW WORK
405	LININ/EDOAL WACUBOOK	MAT.	CONC	GWB	GWB	СВ	GWB	GWB	GWB	2632	REFER TO ELEVATIONS FOR WALL TILE LOCATIONS/PATTERN
195	AE	FIN.	RSF	RSF	CT/PT	CT/PT	CT/PT	CT/PT	PT		

	DOOR /		FRA	ME S			E					DOO						# I	REMARKS 1. CONFIRM AND VERIFY ALL EXISTING DOOR / SCREEN OPENINGS 2. ALL DOORS AND FRAMES TO BE ULC RATED.
NO.	SIZE AND THICKNESS	DOOR TYPE	MATERIAL	FINISH	GLASS	FRAME TYPE	DET		MATERIAL	EINIIQLI	FIRE RATING	BALL BE/ HINGES CLOSER	DOOR	ECTRIC TRIKE	LOCKSET	DOOR STOF	PUSH TO LOCK	KICK PLATE	3. ALL NEW DOORS AND FRAMES (PAINTED)
D11	965x2150x45	M	HM	P	GLAGG	F1	HEAD H2	JAMB J2	PS	P							•		4. COAT HOOKS BACK OF DOORS (WASHROOMS AND SHOWERS)
D125A	965x2150x45	2G	HM	P	FRG	F2	H1	 J1	PS	P	45MIN	• •	,		•	•		•	MAGNETIC HOLD OPEN
D125B	965x2150x45	2G	НМ	Р	FRG	F2	H1	J1	PS	Р	45MIN	• •	,		•	•		•	
D128A	762x2150x45	М	НМ	Р		F1	H1	J1	PS	Р	45MIN	• •	•		•	•		•	UNDERCUT DOOR AS PER NFPA
D128B	762x2150x45	М	НМ	Р		F1	H1	J1	PS	Р	45MIN	• •	•		•	•		•	UNDERCUT DOOR AS PER NFPA
D128C	762x2150x45	М	НМ	Р		F1	H1	J1	PS	Р	45MIN	• •			•	•		•	UNDERCUT DOOR AS PER NFPA
D128D	762x2150x45	М	НМ	Р		F1	H1	J1	PS	Р	45MIN	• •	•		•	•		•	UNDERCUT DOOR AS PER NFPA
D128E	762x2150x45	М	НМ	Р		F1	H1	J1	PS	Р	45MIN	• •			•	•		•	UNDERCUT DOOR AS PER NFPA
D129A	965x2150x45	2G	НМ	Р	FRG	F3	H1	J1	PS	Р	45MIN	• •			•	•		•	MAGNETIC HOLD OPEN
D129B	965x2150x45	2G	НМ	Р	FRG	F2	H1	J1	PS	Р	45MIN	• •	•		•	•		•	
D139A	965x2150x45	MG	НМ	Р	FRG	F1	H1	J1	PS	Р	45MIN	• •			•	•		•	
D139B	965x2150x45	MG	НМ	Р	FRG	F1	H1	J1	PS	Р	45MIN	• •			•	•		•	

ı				
	NO.	REVISIONS	DATE	BY

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PROJECT:

PORT PERRY HIGH SCHOOL **GYM RENOVATIONS**

160 ROSA STREET PORT PERRY, ONTARIO DURHAM DISTRICT SCHOOL BOARD

DRAWING:

ROOM AND DOOR SCHEDULES



Tel: (905) 666-5252

Fax: (905) 666-5256

4	OF O ARCHITECT CASSANDRA ERIN CAL LICENCE 8891	*
RYAN	DESIGN BY:	DOC CONT

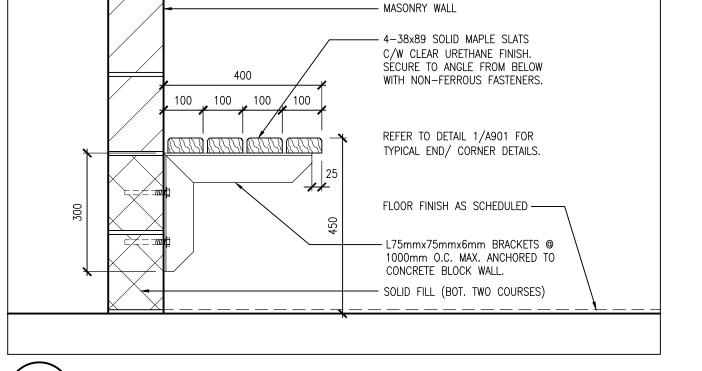
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Whitby, Ontario	(
L1N 0G5	

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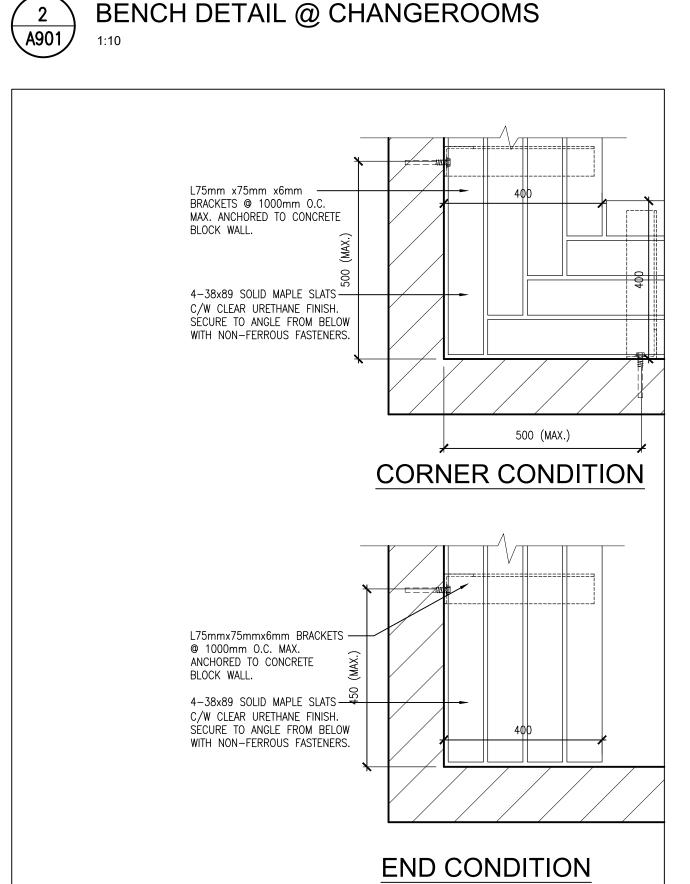
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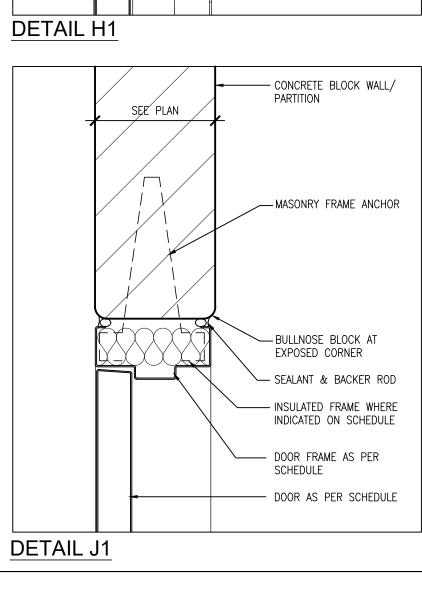
e-mail: bba@bba-archeng.com 24164 A901 DRAWING NO: PROJECT NO:

A901 24164









SEE PĻAŃ

- CONCRETE BLOCK WALL/

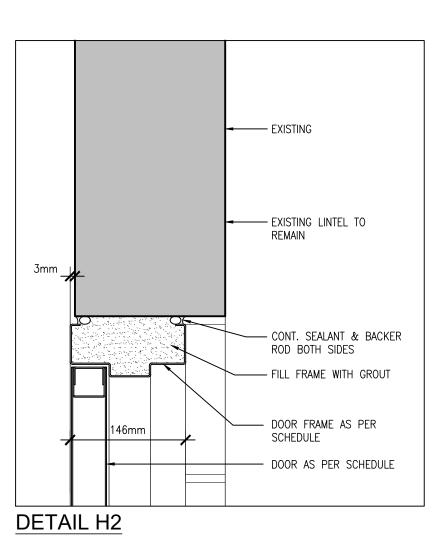
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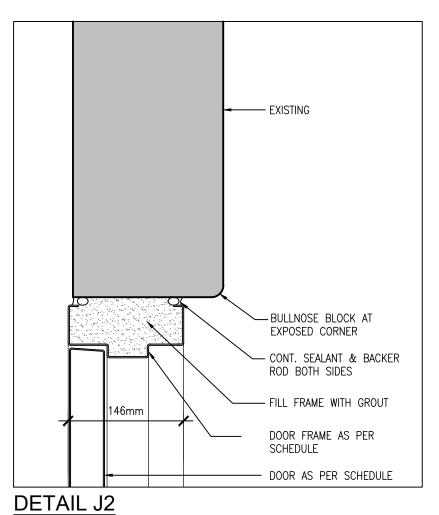
— DOOR FRAME AS PER

- DOOR AS PER SCHEDULE

SCHEDULE

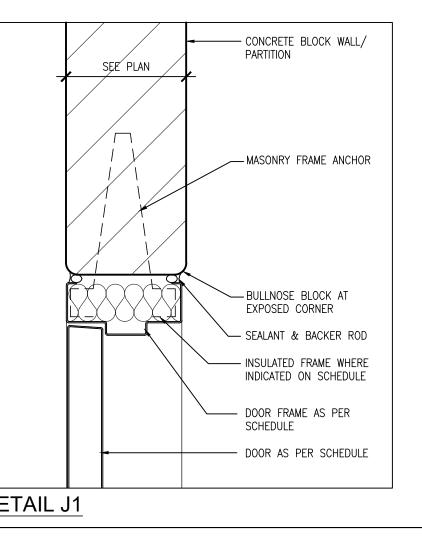
PARTITION

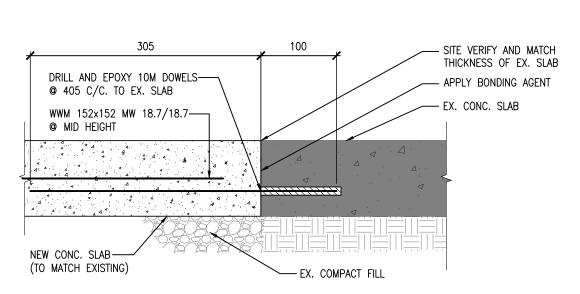




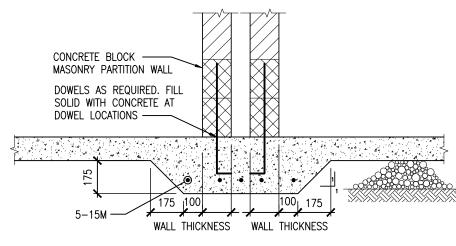


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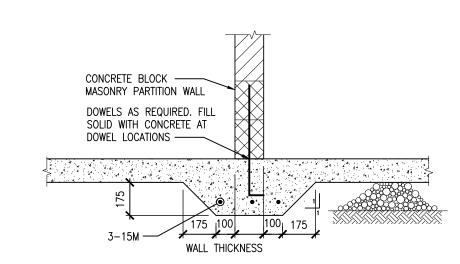
TYPICAL SLAB REPAIR DETAIL S201



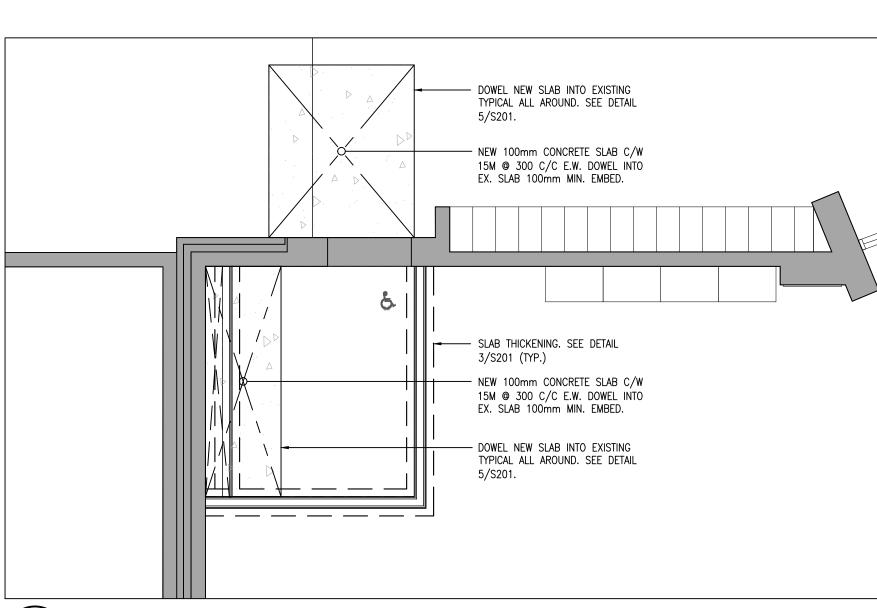
FOUNDATION AT NON-BEARING WALLS

<u>\$201</u>

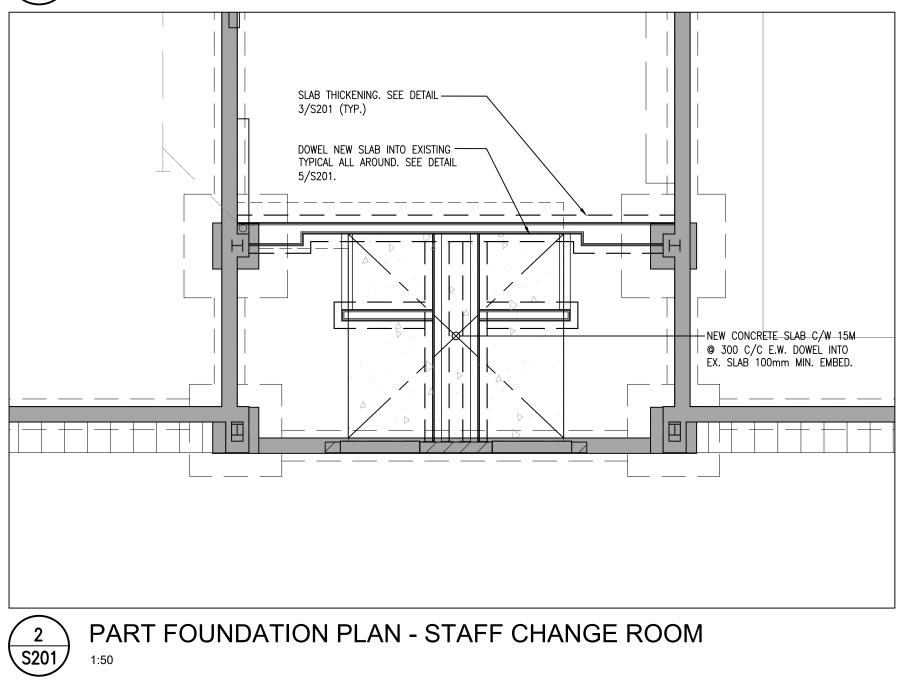
TYPICAL SLAB THICKENING



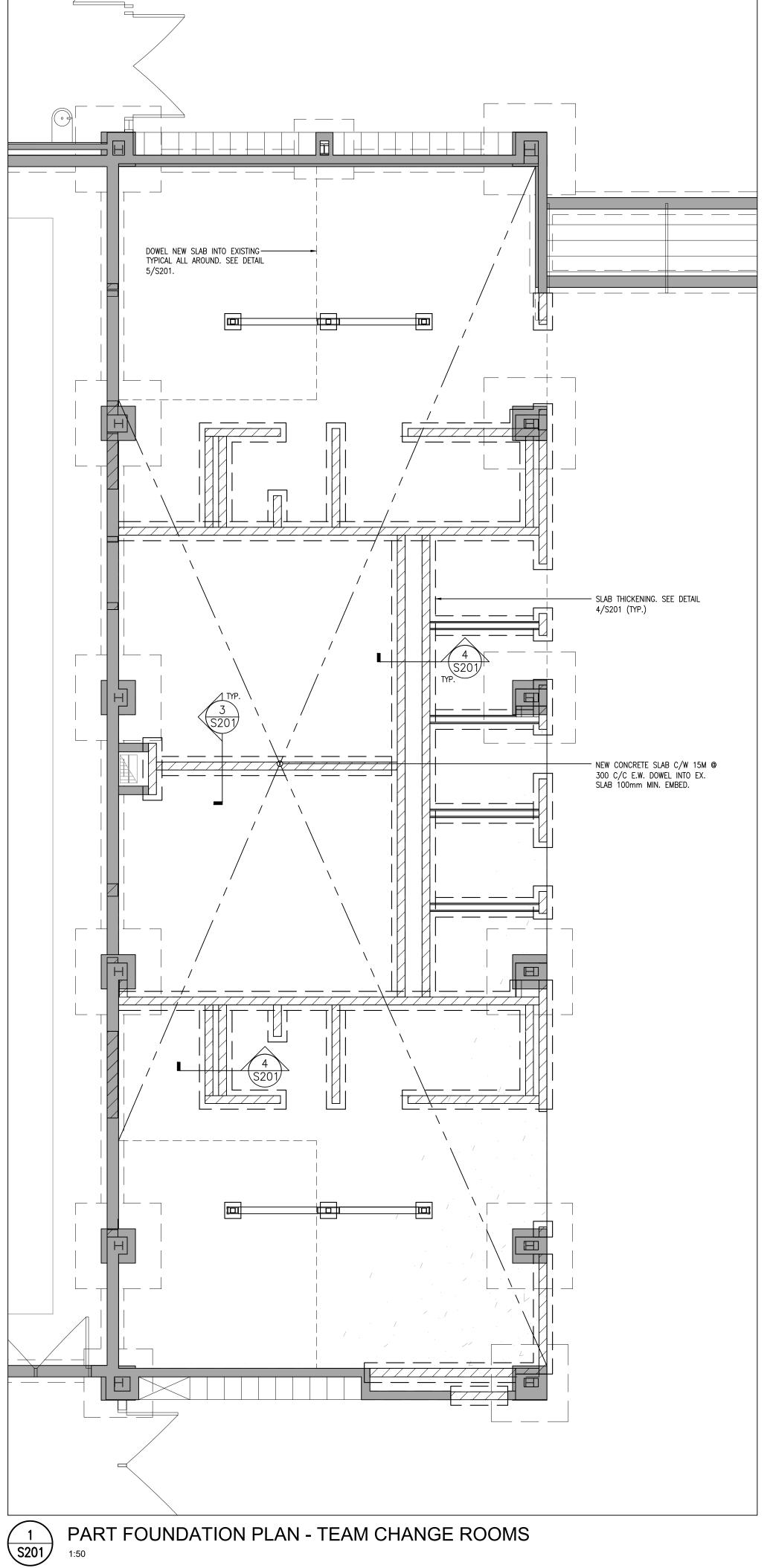
S201



PART FOUNDATION PLAN - BARRIER-FREE WASHROOM 3 S201



PART FOUNDATION PLAN - STAFF CHANGE ROOM



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NO.	ISSUES	DATE	BY
1	ISSUED FOR 30% CLIENT REVIEW	DEC. 9 2024	BBA
2	ISSUED FOR 60% CLIENT REVIEW	FEB. 4 2025	BBA
3	ISSUED FOR TENDER	FEB. 14 2025	BBA

NO. REVISIONS DATE BY

PROJECT:

PORT PERRY HIGH SCHOOL **GYM RENOVATIONS**

160 ROSA STREET PORT PERRY, ONTARIO DURHAM DISTRICT SCHOOL BOARD

DRAWING:

PART FOUNDATION PLAN AND DETAILS





% COMPLETE:

DESIGN BY:

DRAWN BY:

CM/CC

BARRY BRYAN **ASSOCIATES** Architects Engineers

Project Managers 250 Water Street Suite 201 Whitby, Ontario L1N 0G5

NOVEMBER 2024 Tel: (905) 666-5252 AS NOTED Fax: (905) 666-5256 e-mail: bba@bba-archeng.com

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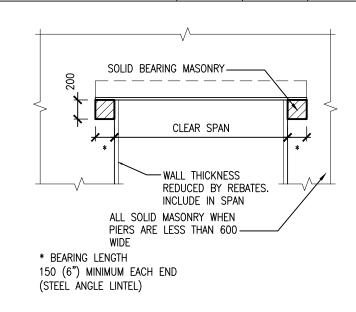
PROJECT NO: 24164 **S201**



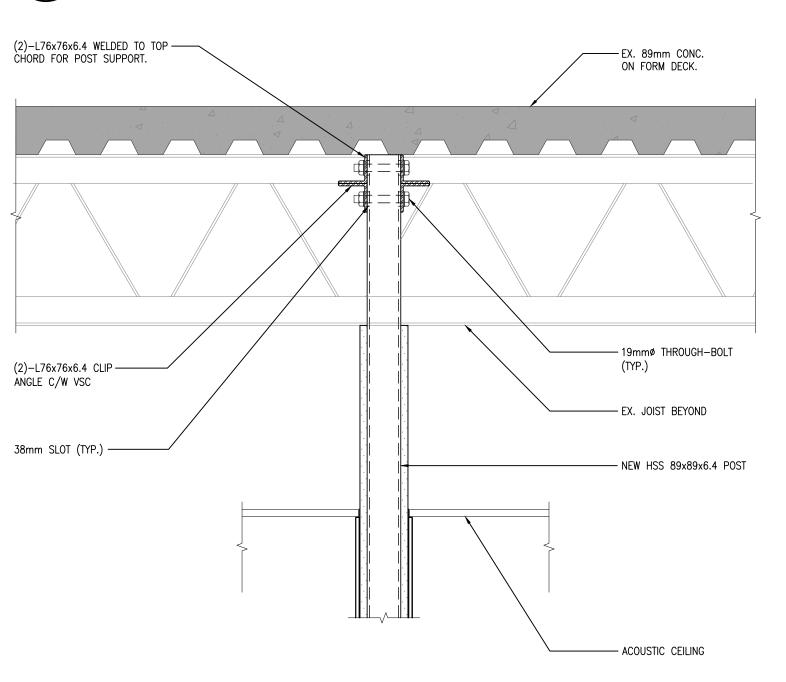
FOUNDATION AT NON-BEARING WALLS

MARK	REINFORCING	DETAIL	REMARKS
Z1	2-15M VERT.		GROUT SOLID REINFORCED CELLS
72	3—15M VERT.		GROUT SOLID REINFORCED CELLS
Z3	4-15M VERT.		GROUT SOLID REINFORCED CELLS
Z4	4-15M VERT.		GROUT SOLID REINFORCED CELLS

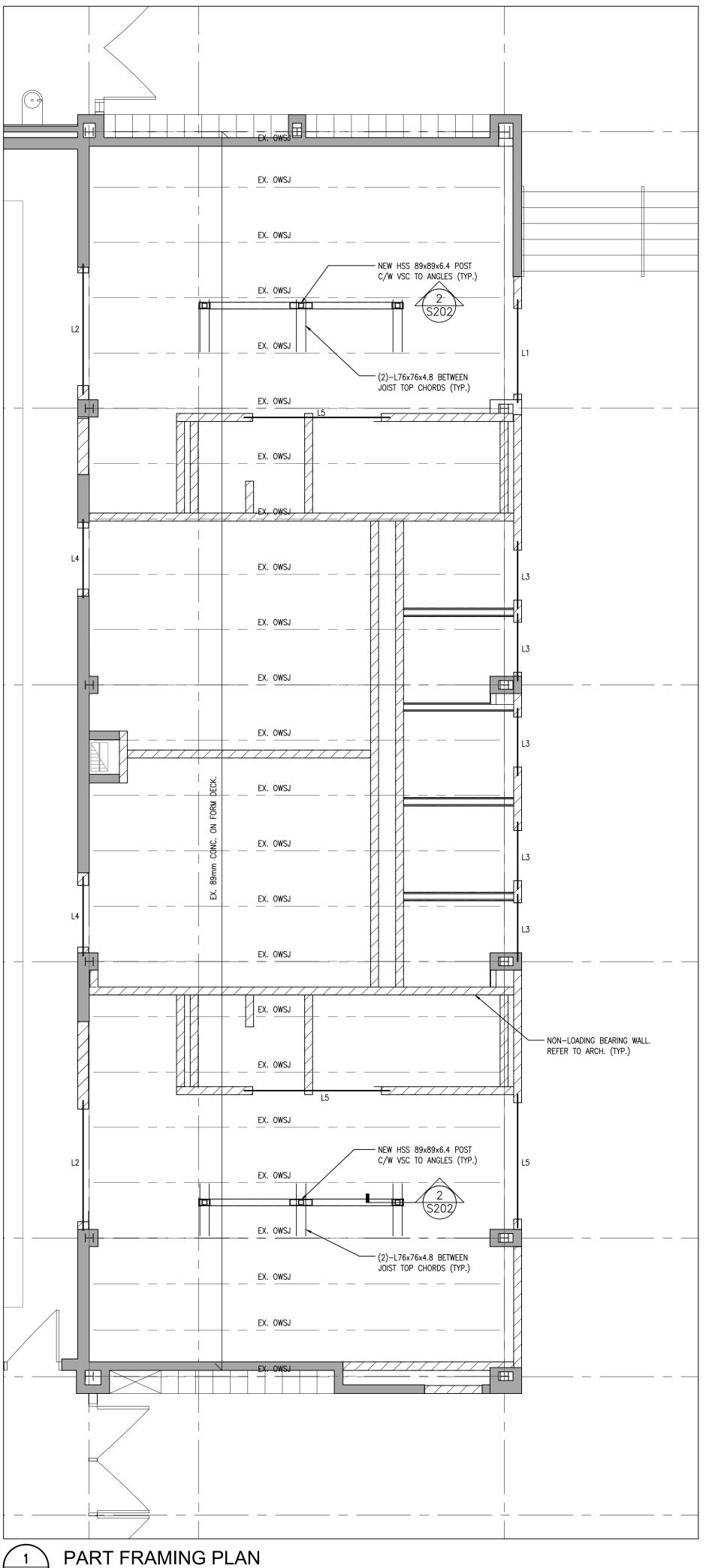
NOTES 1. CONNECT ANGLES AT 600 C/C BY WELDING OR BOLTING FOR ANGLES WITH A TOTAL LENGTH	STEEL	LINTELS	FOR MASC	NRY WALLS
OF 1800 OR MORE. USE 160 BOLTS OR 6x50 LONG WELDS.	MARK	WALL THICKNESS	SECTION	DETAIL
2. USE SCHEDULES FOR LINTELS OVER MECH OPENINGS IN ALL MASONRY WALLS UNLESS NOTED OTHERWISE ON PLAN. REFER TO MECH DWGS FOR	L1	140	2-L89x64x6.4	_#_ 64 LEGS _#_ HORIZ
LOCATIONS. 3. OPENINGS TO BE LOCATED MIN 3 COURSES BELOW UNDERSIDE OF SLAB UNLESS APPROVED BY	L2	190	2-L102x89x8	_⊭_ 89 LEGS _⊬ HORIZ
STRUCTURAL ENGINEER. 4. FOR DOUBLE WYTHE WALLS PROVIDE 10mm GUSSETS © 800 C/C STEEL LINTEL SUPPORT	L3	140	2-L64x64x6.4	64 LEGS HORIZ
BLOCK ABOVE PLUS CONT. 320x10mm BOT PLATE.	L4	190	2-L89x75x6	# 89 LEGS HORIZ
	L5	140	2-L89x64x7.9	64 LEGS HORIZ







S202



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	NO.	ISSUES	DATE	ВҮ
	1	ISSUED FOR 30% CLIENT REVIEW	DEC. 9 2024	BBA
	2	ISSUED FOR 60% CLIENT REVIEW	FEB. 4 2025	BBA
	3	ISSUED FOR TENDER	FEB. 14 2025	BBA

NO. REVISIONS DATE BY

PROJECT:

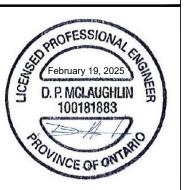
PORT PERRY HIGH SCHOOL **GYM RENOVATIONS**

160 ROSA STREET PORT PERRY, ONTARIO DURHAM DISTRICT SCHOOL BOARD

DRAWING:

PART FRAMING PLAN AND DETAILS





BARRY BRYAN ASSOCIATES Architects Engineers Project Managers 250 Water Street

% COMPLETE: DRAWN BY: CM/CC NOVEMBER 2024

DESIGN BY:

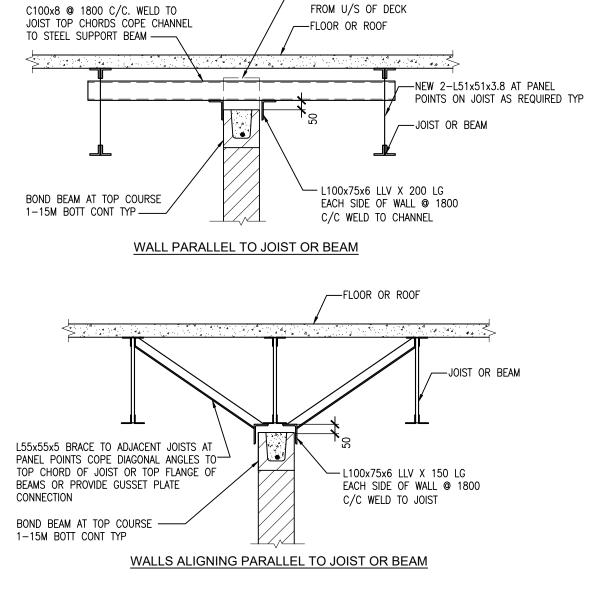
Suite 201 Whitby, Ontario L1N 0G5 Tel: (905) 666-5252 Fax: (905) 666-5256 e-mail: bba@bba-archeng.com

AS NOTED FILE: 24164 S202

S202

PROJECT NO: 24164

DRAWING NO:



WALL PERPENDICULAR TO BEAM OR JOIST

- L100x75x6 LLV X 200 LG

C/C WELD TO CHANNEL

____ BLOCK BEYOND STOPS 50mm

EACH SIDE OF WALL @ 1800

BLOCK BEYOND STOPS 50mm

BOND BEAM AT TOP COURSE 1-15M B CONT (TYP)

<u>4</u> <u>S202</u>

FROM U/S OF DECK ———



LATERAL SUPPORT OF TOP OF MASONRY WALLS

2 S202

SECTION

GENERAL SPECIFICATIONS GENERAL SPECIFICATIONS HVAC SPECIFICATIONS HVAC SPECIFICATIONS GENERAL SPECIFICATIONS PROVIDE ALL LABOUR AND MATERIALS TO SUPPLY AND INSTALL THE DUCTWORK AND OF FIVE (5) YEARS EXPERIENCE AND BE NEBB CERTIFIED. ALL BALANCING, 3.4. THIS CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CUTTING, PATCHING AND <u>GENERAL</u> BE THE MECHANICAL CONTRACTOR'S RESPONSIBILITY TO PROVIDE STRUCTURAL SHEET METAL SYSTEMS AS INDICATED ON MECHANICAL DRAWINGS. THIS INCLUDES TESTING ADJUSTING AND REPORTING SHALL BE CARRIED OUT IN ACCORDANCE RESTORATION. WHERE REQUESTED, THE CONTRACTOR SHALL CONTRACT THE REINFORCING FOR ALL DIV.23 INSTALLATIONS. THE CONTRACTOR SHALL OBTAIN INSTALLING THE DUCTWORK, ACCESSORIES, ASSOCIATED ITEMS AND ALL NECESSARY WITH NERB, PROCEDURAL STANDARDS FOR TESTING, ADJUSTING AND BALANCING SERVICES OF THE BASE BUILDING TRADES AT DIV.23 EXPENSE. 1.1. ALL WORK PERFORMED SHALL BE IN ACCORDANCE WITH LATEST EDITION OF THE THE SERVICES OF A LICENSED PROFESSIONAL ENGINEER WHO IS TO PROVIDE A CONNECTIONS TO OUTLETS, INLETS AND EQUIPMENT TO PROVIDE A COMPLETE OF ENVIRONMENTAL SYSTEMS. WHERE APPLICABLE. THE MECHANICAL CONTRACTOR ONTARIO BUILDING CODE, CSA, ASHRAE, NFPA, ETC. WHERE CODES/STANDARD DESIGN BEARING THEIR PROFESSIONAL SEAL. THE CONTRACTOR SHALL APPLY FOR SHALL CONTRACT THE SERVICES OF THE BASE BUILDING APPROVED TAB 3.5. PROVISIONS SHALL BE MADE FOR THE PROTECTION OF DIV.23 WORK UNTIL THE ARE PRESENT FORM MULTIPLE SOURCES, THE MOST STRINGENT SHALL BE BUILDING PERMIT AND ASSUME ALL RESPONSIBILITY AND COST FOR THE PERMIT COMPLETION OF THE PROJECT. THIS MAY INCLUDE. BUT NOT LIMITED TO. PROCESS. UPON COMPLETION OF WORK, CONTRACTOR SHALL SUBMIT A LETTER UNLESS OTHERWISE NOTED, FABRICATE ALL DUCTWORK SYSTEMS, INCLUDING COVERING OF EQUIPMENT OPENINGS AND DUCTWORK, PLUMBING FIXTURES, FLOOR FROM THE STRUCTURAL ENGINEER COMPLETE WITH PROFESSIONAL SEAL TO 13.2. PERFORM TESTING AND BALANCING PROCEDURES ON EACH SYSTEM ACCORDING DUCTWORK, HOUSINGS, DAMPERS AND ACCESS DOORS, WITH GALVANIZED STEEL 1.2. THE FOLLOWING SPECIFICATIONS FORM AN ESSENTIAL PART OF THE CONTRACT INDICATE THAT THE WORK HAS BEEN COMPLETED TO THE ONTARIO BUILDING SHEET METAL MEETING ASTM A653 AND A924. CONSTRUCTION OF THE DUCTWORK TO THE CURRENT EDITION OF THE NEBB STANDARDS. MARK EQUIPMENT AND DOCUMENTS, REFER AND COORDINATE WITH ALL OTHER DIVISIONS, SECTIONS AND CODE, ALL OTHER RELEVANT CODES AND STANDARDS AND TO THE AUTHORITIES SYSTEMS SHALL BE IN STRICT ACCORDANCE WITH SMACNA, SMACNA DUCT 3.6. UPON COMPLETION OF CONSTRUCTION, CONTRACTOR SHALL MAKE ALL FINAL BALANCING DEVICE SETTING WITH PAINT OR OTHER SUITABLE PERMANENT SPECIFICATIONS TO PROVIDE A COMPLETE AND OPERATIONAL INSTALLATION. HAVING JURISDICTION. CLEANLINESS AND ASHRAE. ALL DUCTWORK SHALL BE SMOOTH ON THE INSIDE AND IDENTIFICATION MATERIAL TO SHOW FINAL SETTINGS. ADJUSTMENTS TO EQUIPMENT AS WELL AS REMOVE ALL PROTECTION. ALL SHALL BE FREE FROM RATTLING OR VIBRATION. DUCTWORK NOT MEETING THESE INSTALLATIONS SHALL BE CLEANED THOROUGHLY AND TESTED FOR PROPER 1.3. FOR THE PURPOSE OF THESE SPECIFICATIONS, DRAWINGS AND CONTRACT 10.2. IT IS THE RESPONSIBILITY OF THE MECHANICAL CONTRACTOR TO COORDINATE THE STANDARDS WILL BE REPLACED AT NO EXTRA CHARGE TO THE OWNER. 13.3. BALANCE AIRFLOW AND HYDRONIC FLOW QUANTITIES WITHIN $\pm /-$ 10% OF THE OPERATION. CHANGE ALL AIR AND WATER FILTERS AS REQUIRED. REQUIREMENTS FOR SEISMIC BRACING AND SUPPORTS WITH STRUCTURAL DOCUMENTS, THE WORD 'PROVIDE' REFERS TO THE SUPPLY, INSTALLATION AND DESIGN CRITERIA. IN THE EVENT THAT A CONDITION OR DEFICIENCY IS DRAWINGS. DIV.23 SHALL CONTRACT THE SERVICES OF A LICENSED PROFESSIONAL TESTING OF THE RESPECTIVE EQUIPMENT/COMPONENTS. CONSTRUCT DUCTWORK AND SEAL ACCORDING TO THE APPROPRIATE SMACNA 3.7. IN REGARDS TO INTERRUPTION OF SERVICES, THE CONTRACTOR SHALL CARRY PREVENTING THE ACCEPTANCE RANGE FROM BEING ACHIEVED, IT SHALL BE ENGINEER TO DESIGN SUPPORTS AND BRACING IN ACCORDANCE WITH ALL STANDARDS. LOW PRESSUE DUCTWORK SHALL BE CONSTRUCTED WITH THE ONE (1) NOTED WITH DESCRIPTION ON THE TAB REPORT. UPON COMPLETION, SUBMIT A OUT THEIR WORK IN A MANNER THAT CAUSES THE LEAST DISTURBANCE TO THE CURRENT CODES AND THAT MATCHES THE REQUIREMENT OF THE LOCATION IN 1.4. CONTRACTOR IS TO REPORT ALL APPARENT DISCREPANCIES BETWEEN DRAWINGS INCH PRESSURE CLASSIFICATION AND ALL OTHER DUCTWORK SHALL BE CONSTRUCTED OWNER. PROVIDE NOTIFICATION TO THE OWNER IN WRITING WITH AT LEAST 72 FINAL TAB REPORT TO THE CONSULTANT FOR REVIEW. WHICH THE SYSTEMS ARE BEING INSTALLED. UPON COMPLETION OF THE PROJECT AND SPECIFICATIONS OF ALL DIVISIONS PRIOR TO TENDER SUBMISSION. NO IN ACCORDANCE WITH THE THREE (3) INCH CLASSIFICATION. DUCT PRESSURES SHALL HOURS OF THE SCHEDULED INTERRUPTION. SEISMIC ENGINEER SHALL PROVIDE A LETTER BEARING THEIR PROFESSIONAL SEAL EXCEPTIONS WILL BE GIVEN TO CONTRACTORS WHO DO NOT COMPLETELY BE CLASSIFIED AS FOLLOWS: INDICATING THAT THE INSTALLATION MEETS THE SEISMIC DESIGN DOCUMENT AND UNDERSTAND THE SCOPE OF WORK. 3.8. ARRANGE AND PAY FOR THE SAFE DISPOSAL OF REMOVED ITEMS AS SPECIFIED. CONFORMS TO THE BUILDING CODE AND THE AUTHORITIES HAVING JURISDICTION. 14.1. PROVIDE ALL CONTROLS, WIRING, CONDUIT, ACCESSORIES, ETC. AND INTERLOCK 3.1. LOW: DUCT PRESSURES (LOW) OF 1/2" TO 2" W.C. AND NOT EXCEEDING AN PROVIDE PROOF OF SAFE DISPOSAL FOR ITEMS SUCH AS HVAC REFRIGERANT. 1.5. ALL DIV.23 WORK SHALL BE COORDINATED AND SCHEDULED WITH ALL OTHER COORDINATE THE TIME AND METHOD OF DISPOSAL WITH THE OWNER. FOR AIR VELOCITY OF 2000 FPM. WITH EQUIPMENT/STARTERS AS INDICATED ON DRAWINGS. ELECTRICAL EXAMPLE, CLEARLY INDICATE THE ROUTE THAT WILL BE TAKEN FROM THE INSIDE OF THE BUILDING TO THE OUTDOORS, AS WELL AS THE STORAGE LOCATION 14.2. WHEN INSTALLED IN CEILING PLENUMS, CABLE MAY BE FREE-AIR. UNLESS 11.1. ALL ELECTRICAL MOTORS, STARTERS, CONTACTORS, DISCONNECT SWITCHES AND 3.2. MEDIUM: DUCT PRESSURES EXCEEDING 2" W.C. OR AND AIR VELOCITY OF 2000 1.6. THIS CONTRACTOR SHALL VISIT THE SITE AND COMPLETELY INVESTIGATE AND OUTDOORS IF APPLICABLE CONTROL DEVICES FOR DIV.23 WORK SHALL BE PROVIDED BY DIV.23. OTHERWISE NOTED, PROVIDING THE WIRING IS FT-6 PLENUM RATED. UNDERSTAND THE EXISTING CONDITIONS AND THEIR RELATION TO THE DESIGN DRAWINGS / DOCUMENTS. NO CONSIDERATION WILL BE GIVEN TO THE CONTRACTOR WHERE COMPONENTS ARE TO BE REUSED, THE CONTRACTOR SHALL CLEAN AND 11.2. DIV.26 SHALL BE RESPONSIBLE FOR POWERING LOAD SIDE OF STARTERS AND 14.3. WHEN INSTALLED IN OPEN AREAS, PROVIDE EMT CONDUIT, FITTINGS, MOUNTING 3.3. THREE INCH: ALL VARIABLE AIR VOLUME (VAV) SUPPLY AIR DUCT SYSTEMS AND FOR ANY HINDRANCES TO THE MECHANICAL INSTALLATION FROM SITE CONDITIONS CONTACTORS. POWER FOR ELECTRICAL HEAT TRACING AND CONTROLS, LINE SIDE TEST THE COMPONENT TO ENSURE PROPER OPERATION. THE CONSULTANT SHALL ACCESSORIES, ETC. TO DELIVER A NEAT AND CLEAN INSTALLATION. AIR DUCTWORK SYSTEMS EXPOSED TO THE OUTDOORS. WHICH EXISTED PRIOR TO TENDER SUBMISSION. AS SUCH AND WHERE REQUIRED BE NOTIFIED IN THE EVENT THERE IS A DEFICIENCY WITH THE COMPONENT. POWER TO LOOSE STARTERS AND DISCONNECTS. THE CONTRACTOR SHALL PROVIDE INTERFERENCE DRAWINGS AND SHALL SUBMIT 14.4 MOUNTING HEIGHTS: FLEXIBLE DUCTWORK THEM TO THE CONSULTANT FOR REVIEW. 3.10. PERFORM WORK SO AS TO CAUSE MINIMAL DISTURBANCE TO OWNER AND/OR 11.3. ALL LOW VOLTAGE WIRING AND CONNECTION IS TO BE PROVIDED BY THE 14.4.1. OCCUPANT ADJUSTABLE: MOUNT AT 3'-11" (1200 MM) A.F.F. ADJACENT AREAS. MINIMIZE DUST AND NOISE AND PROVIDE TEMPORARY AIR MECHANICAL CONTRACTOR. 4.1. PROVIDE, WHERE INDICATED ON MECHANICAL DRAWINGS, FLEXIBLE DUCTWORK 1.7. PROVIDE NEW MATERIALS AND EQUIPMENT OF ACCEPTABLE QUALITY THAT ARE FILTERS ON AIR HANDLING SYSTEMS AFFECT BY THE AREA OF WORK. ALL COSTS EQUAL TO FLEXMASTER TRIPLE LOCK ALUMINUM DUCTWORK. THE PRESSURE 14.4.2. NON-AJUSTABLE (SENSOR ONLY): MOUNT AT 5'-0" (1500 MM) A.F.F. MANUFACTURED IN CANADA OR THE UNITED STATES AND BEAR THE APPROVAL OF ASSOCIATED WITH DAMAGES AS A RESULT OF THE MECHANICAL INSTALLATION. 11.4. WHERE THERE IS NO DIV.26 (ELECTRICIAN) AS PART OF THE PROJECT, THE RATING OF THE DUCTWORK SHALL MATCH THE DUCTWORK SYSTEM TO WHICH IT RECOGNIZED NORTH AMERICAN STANDARD ASSOCIATIONS SUCH AS CSA, ASME, SHALL BE COVERED BY DIV.23. MAINTAIN SAFETY STANDARDS AND PROVIDE MECHANICAL CONTRACTOR SHALL CONTRACT THE SERVICES OF A LICENSED IS ATTACHED. MATCH THE DUCTWORK SIZE TO THE CONNECTION OUTLET OF THE **CONFIRM MOUNTING HEIGHTS WITH CONSULTANT PRIOR TO INSTALLATION. ETC. THE CONTRACTOR SHALL MAXIMIZE THE UTILIZATION OF CANADIAN ADEQUATE SIGNAGE FOR BOTH WORKERS AND OCCUPANTS. FLECTRICAL CONTRACTOR AND ORTAIN THE APPROPRIATE INSPECTIONS AND EQUIPMENT, MATERIALS, ETC. AIR TERMINAL. APPROVALS FOR THE INSTALLATION OF ALL ELECTRICAL WORK REQUIRED FOR 14.5. COORDINATE INSTALLATION OF ALL CONTROL DEVICES/SENSORS WITH 3.11. WHERE CUTTING OR CORE DRILLING OF THE EXISTING CONCRETE STRUCTURE IS SECURE FLEXIBLE DUCTWORK USING GEAR CLAMPS WITH AN ADJUSTING WORM MECHANICAL SYSTEMS. ARCHITECTURAL DRAWINGS. 1.8. ALL EQUIPMENT, MATERIALS, ETC. SHALL BE INSTALLED IN STRICT ACCORDANCE REQUIRED, THE MECHANICAL CONTRACTOR SHALL CONTRACT THE SERVICES OF AN DRIVE TYPE SCREW. SEAL AROUND CONNECTION WITH DUCT TAPE TO OBTAIN THE WITH THE MANUFACTURER'S INSTALLATION INSTRUCTIONS AND RECOMMENDATIONS. EXPERIENCED AND REPUTABLE COMPANY TO CARRY OUT X-RAYING. THE RESULTS APPROPRIATE SMACNA SEAL CLASS. 12. PROJECT CLOSEOUT 14.6. INSTALL CONTROL DEVICES/SENSORS CLEAR OF DIMMERS SO AS TO AVOID SHALL BE SUBMITTED TO THE BASE BUILDING STRUCTURAL ENGINEER AND NOT 1.9. THE MECHANICAL DRAWINGS DISPLAY A GENERAL DESIGN AND INSTALLATION. INTERFERENCE. CUTTING OR CORING SHALL TAKE PLACE UNTIL WRITTEN APPROVAL IS RECEIVED. 12.1. PRIOR TO THE ISSUING OF A PROJECT COMPLETION NOTICE OR A SIGN-OFF 4.3. MAXIMUM LENGTH OF FLEXIBLE DUCTWORK PERMITTED IN LOW PRESSURE THEREFORE THE CONTRACTOR SHALL OBTAIN CLARIFICATION FROM THE THE CONTRACTOR SHALL PROVIDE A WRITTEN REQUEST TO PERFORM X-RAYING LETTER, THE FOLLOWING DOCUMENTS, AT A MINIMUM, MUST BE PROVIDED TO THE SYSTEMS IS 10'-0" AND 4'-0" IN ALL OTHER HIGHER PRESSURE SYSTEMS. 14.7. THE MECHANICAL CONTRACTOR SHALL TEST ALL CONTROLS/INTERLOCKS FOR CONSULTANT PRIOR TO INSTALLATION WITH AT LEAST 72 HOURS IN ADVANCE. ENGINEER FOR REVIEW: GOOD OPERATION PRIOR TO PROJECT CLOSE-OUT. PROVIDE A REPORT FOR ALL DUCT DIMENSIONS SHOWN ON DRAWINGS ARE CLEAR INSIDE DIMENSIONS. 1.10. THESE DRAWINGS HAVE BEEN PREPARED FOR DIV.23 AND DO NOT ACCURATELY REVIEW TO THE ENGINEER INDICATING DEFICIENCIES. IDENTIFICATION OF MECHANICAL SERVICES AIR BALANCING REPORT CONTRACTOR TO TAKE INTO ACCOUNT DUCT LINERS, ETC. WHEN PERFORMING DISPLAY ALL ELECTRICAL, STRUCTURAL AND ARCHITECTURAL ELEMENTS. REFER TO NFPA—13 LETTER OTHER DIVISION'S DRAWINGS FOR CLARIFICATION. 14.8. WIRE ALL DEVICES TO THEIR RESPECTIVE MAGNETIC STARTERS AND PROVIDE 4.1. PROVIDE SMS WRAP-MARK ON ALL PIPE COVERINGS WITH FLOW ARROW AND APPLICABLE SYSTEM/EQUIPMENT TESTING REPORT POWER TO DIV.23 CONTROL PANELS FROM NEAREST AND MOST SUITABLE ALTERNATING WORDING. COVERING COLOURS SHALL MATCH BASE BUILDING. IN MAKE ALL DUCT CONNECTIONS, CONCENTRIC AND ECCENTRIC TRANSITIONS, ETC., IN ELECTRICAL PANEL. 1.11. IN NO CASE SHALL THESE DRAWINGS BE SCALED. ALL ROUGH-IN'S SHALL BE THE CASE WHERE THERE IS NO EXISTING STANDARD, INDUSTRY STANDARDS SHALL ACCORDANCE WITH SMACNA. COORDINATED WITH OTHER DIVISIONS. 14.9. CONTRACT THE SERVICES OF THE BASE BUILDING APPROVED CONTROLS PROVIDE <u>DUCT ACCESS DOORS</u> AT LOCATIONS AS SHOWN ON DRAWINGS, AS WELL AS CONTRACTOR WHERE APPLICABLE. 1.12. DO NOT PROCEED WITH WORK OUTSIDE THE SCOPE OF THE DESIGN DRAWINGS 4.2. USE STENCILS AND STENCIL PAINT ON DUCTWORK AND DUCTWORK INSULATION AT THE LINKAGE SIDE OF AUTOMATIC DAMPERS, FIRE DAMPERS AND ANY OTHER AND SPECIFICATIONS WITHOUT WRITTEN CONSENT FROM THE OWNER. THIS APPLIES WITH BLACK CAPITALIZED LETTERS 2" (50 MM) HIGH AND SOLID BLACK FLOW SERVICE. BALANCE OR CONTROL DEVICE REQUIRING PERIODIC MAINTENANCE, THE 14.10. PNEUMATIC CONTROLS TO ALL DIV.23 CHANGE NOTICES AS ISSUED BY THE CONSULTANT. DOORS SHALL BE CONSTRUCTED IN ACCORDANCE WITH SMACNA AND SHALL MATCH THE PRESSURE RATING OF THE DUCTWORK SYSTEM TO WHICH IT IS BEING 14.10.1. PROVIDE TYPE M SEAMLESS COPPER TUBING THAT COMPLIES WITH ASTM 1.13. IN REGARDS TO DIV.23 CHANGE NOTICES, CONTRACTOR SHALL PROVIDE A 4.3. IDENTIFICATION OF PIPING AND DUCTWORK SHALL BE PROVIDED AT THE B280, WROUGHT COPPER FITTINGS THAT COMPLY WITH ANSI/ASME B16.22, BREAKDOWN INCLUDING. BUT NOT LIMITED TO. MATERIALS. LABOUR. MARK-UP. FOLLOWING LOCATIONS: ETC. QUOTATIONS SHALL BE BASED ON ALLPRISER FOR EQUIPMENT AND THE AND JOINTS THAT COMPLY WITH ANSI/ASTM B32. PROVIDE FLEXIBLE CONNECTIONS AT THE INLET AND OUTLET CONNECTION FOR EACH MECHANICAL CONTRACTORS OF AMERICA, SMACNA, AND NATIONAL ELECTRICAL - AT LEAST ONCE IN EACH ROOM FAN BETWEEN DUCTWORK AND INLET AND OUTLET COLLARS. FLEXIBLE CONNECTIONS CONTRACTORS FOR LABOUR RATES. 14.10.2. CONCEAL TUBING, UNLESS LOCATED IN MECHANICAL ROOMS, AND AT FACH PIFCE OF FQUIPMENT SHALL BE CONSTRUCTED OF NON-COMBUSTIBLE NEOPRENE COATED FIBERGLASS MECHANICALLY FASTEN TO SUPPORTING STRUCTURES. PURGE TUBING WITH - AT EACH BRANCH CLOSE TO THE CONNECTION POINT AT MAIN FABRIC. FOR OUTDOOR CONNECTIONS, PROVIDE A CONNECTOR THAT IS SUITABLE FOR 1.14. WHERE EQUIPMENT HAS BEEN PRE-PURCHASED, DIV.23 SHALL ACCEPT ALL OIL-FREE COMPRESSED AIR BEFORE CONNECTING TO CONTROL - AT NOT GREATER INTERVALS OF 50 FT. (15 M) ON STRAIGHT RUNS OF EXPOSURE TO SUNLIGHT AND THE ELEMENTS. RESPONSIBILITY FOR EQUIPMENT DELIVERY, INSTALLATION, TESTING AND WARRANTY, INSTRUMENTS. EXPOSED PIPING AND DUCTWORK. SIMILAR TO AS IF THE EQUIPMENT WAS PURCHASED BY DIV.23. - AT ENTRY AND LEAVING POINT TO PIPE AND DUCT CHASES, OR OTHER PROVIDE <u>FIRE DAMPERS</u> WHERE INDICATED ON MECHANICAL DRAWINGS. ALL DAMPERS SHALL BE SELECTED TO SUIT THE RATING OF THE FLOOR OR WALL ASSEMBLY IN CONCEALED SPACES 1.15. THE CONTRACTOR SHALL WARRANTY ALL MATERIALS, EQUIPMENT, INSTALLATION - BOTH SIDES WHERE PIPING AND DUCTWORK PASSES THROUGH WALL, WHICH IT WILL BE INSTALLED. FIRE DAMPERS SHALL BE ULC LISTED AND INSTALLED AND QUALITY OF WORKMANSHIP FOR A MINIMUM OF ONE (1) YEAR UNLESS PARTITIONS AND FLOORS IN STRICT ACCORDANCE WITH THE MANUFACTURER'S INSTALLATION INSTRUCTIONS, - ON VERTICAL PIPES AND DUCTS APPROXIMATELY 6 FT. (1800 MM) A.F.F. NFPA 90A AND THE AUTHORITIES HAVING JURISDICTION. TYPE A FIRE DAMPERS ARE PERMITTED FOR NON-DUCTED TRANSFER DUCTWORK. TYPE B FIRE DAMPERS SHALL - BEHIND EACH ACCESS DOOR AND PANEL 1.16. IT IS THE MECHANICAL CONTRACTOR'S RESPONSIBILITY TO PAY FOR ALL CHARGES BE USED IN ALL OTHER CASES UNLESS OTHERWISE NOTED. AND DAMAGES ASSOCIATED WITH EQUIPMENT THAT IS NOT PROVIDED AS SPECIFIED 4.4. PROVIDE IDENTIFICATION FOR PIPING CONTAINING ELECTRICAL HEAT TRACING. AND INCLUDES NOT MEETING THE MANUFACTURER'S RATINGS, PUBLISHED DATA 9.1. REMOVABLE DUCT SECTIONS FOR FIRE AND SMOKE DAMPER ACCESS: WHERE A AND/OR THE APPLICABLE GOVERNING STANDARDS. 4.5. TAG ALL VALVES, EXCEPT SMALL VALVES ISOLATING EQUIPMENT, WITH BRASS TAGS MINIMUM 12"X12" ACCESS PANEL CAN NOT BE INSTALLED ON DUCTWORK. A AND HIGH DIE-STAMPED BLACK LETTERS ATTACHED TO VALVES WITH 4" BRASS REMOVABLE DUCTWORK SECTION FOR DAMPER INSPECTION AND MAINTENANCE 1.17. THE CONTRACTOR MAY SUBMIT FOR ALTERNATE MATERIALS AND EQUIPMENT ONLY SHALL BE PROVIDED. REMOVABLE DUCTWORK SECTION TO FUNCTION WITHOUT WHEN THE SPECIFIED ARE NOT AVAILABLE OR WILL ADVERSELY IMPACT THE THE USE OF TOOLS AND SHALL NOT BE MORE THAN 4" AWAY FROM THE FIRE 4.6. PROVIDE IDENTIFICATION FOR ALL NEW EQUIPMENT. STARTERS AND REMOTE DAMPER SLEEVE BREAK AWAY CONNECTION. FOR THEIR TIME REQUIRED TO REVIEW THE ALTERNATE SUBMITTALS. CONTROL DEVICES WITH LAMACOID LABELS ENGRAVED WITH WHITE LETTERING AND A BLACK BACKGROUND. THE MINIMUM LETTERING SIZE SHALL BE 3/8" (10 MM). MANUAL BALANCING DAMPERS INSTALLED IN DUCTWORK NOT EXCEEDING 12" ON THE <u>SUBMITTALS</u> LONGEST SIDE SHALL BE CONSTRUCTED AS PER SMACNA. PROVIDE OPPOSED BLADE ACCESS DOORS AND PANELS DAMPERS WHERE THE DIMENSION OF THE LONGEST SIDE OF THE DUCTWORK 2.1. THE CONTRACTOR SHALL SUBMIT THREE (3) HARD COPIES OF MECHANICAL SHOP EXCEEDS 12". OPPOSED BLADE DAMPERS SHALL BE OF GALVANIZED STEEL DRAWINGS TO THE CONSULTANTS FOR REVIEW. ELECTRONIC SUBMISSION OF SHOP 5.1. PROVIDE ADEQUATE ACCESS TO CONCEALED EQUIPMENT AND COMPONENTS THAT CONSTRUCTION WITH LOCK SCREWS AT OPPOSITE ENDS. PROVIDE BALANCING RAWINGS SHALL BE DEEMED ACCEPTABLE UPON APPROVAL FROM CONSULTANT. REQUIRE ACCESS FOR MAINTENANCE, ADJUSTMENT AND INSPECTION. PROVIDE DAMPERS WHERE SHOWN ON DRAWING AS WELL AS ON BRANCHES OFF OF MAIN THE CONTRACTOR SHALL BEAR ALL COSTS ASSOCIATED WITH THE DOCUMENT MARKING TO THE OWNER'S SATISFACTION THE LOCATIONS WHERE CONCEALED DUCTWORK WITH ADEQUATE ACCESS. EQUIPMENT IS LOCATED. PROVIDE ALL DIFFUSERS, REGISTERS, GRILLES, ETC. OF TYPE AND SIZE AS INDICATED 2.2. ALL SHOP DRAWINGS SUBMITTED FOR REVIEW <u>MUST BEAR THE REVIEW STAMP OF THE MECHANICAL CONTRACTOR</u>. SHOP DRAWINGS THAT DO NOT BEAR THE 5.2. ENSURE THAT THE SIZE OF THE DOOR COMPLIES WITH THE MANUFACTURER'S ON MECHANICAL DRAWINGS. CONFIRM ALL AIR TERMINAL COLOURS WITH SUGGESTED ACCESS REQUIREMENTS. ARCHITECT/INTERIOR DESIGNER. REGARDLESS OF SPECIFICATION ON MECHANICAL CONTRACTOR'S STAMP WILL, WITHOUT QUESTION, BE REJECTED BY THE DRAWINGS. MECHANICAL CONTRACTOR IS TO COORDINATE INSTALLATION OF DOOR 5.3. COORDINATE ALL ACCESS DOOR AND PANEL SIZES AND LOCATIONS WITH GRILLES WITH ARCHITECTURAL DRAWINGS AND GENERAL CONTRACTOR. ARCHITECT/INTERIOR DESIGNER. 2.3. SHOP DRAWINGS SHALL INCLUDE ALL INFORMATION REQUIRED FOR THE . PROVIDE <u>DUCTWORK INSULATION AND LINERS</u> WHERE NOTED ON MECHANICAL ONSULTANT TO PERFORM A REASONABLE REVIEW OF THE SUBMITTALS AS THEY FLASHING, CURBS AND CONCRETE PERTAIN TO THE MECHANICAL DESIGN DRAWINGS AND SPECIFICATIONS. 12.1. ACOUSTIC LINING: 6.1. FLASHING SHALL BE CARRIED OUT AS SHOWN ON ARCHITECTURAL AND/OR 2.4. SHOP DRAWINGS SHALL HAVE THE SAME IDENTIFYING NUMBER AS NOTED IN THE STRUCTURAL DRAWINGS AT THE EXPENSE OF DIV.23. 12.1.1. DUCT LINING SHALL COMPLY WITH NFPA 90A AND DUCT LINER MATERIALS STANDARD OF THE THERMAL INSULATION MANUFACTURER'S ASSOCIATION. 6.2. ALL CURBS REQUIRED FOR MECHANICAL EQUIPMENT SHALL BE CARRIED OUT AS 2.5. PROVIDE <u>SHOP DRAWINGS</u> WITH TECHNICAL SUBMITTALS ON <u>ALL TYPES OF</u> SHOWN ON ARCHITECTURAL AND/OR MECHANICAL DRAWINGS AT THE EXPENSE OF <u>INSULATION</u> TO BE INSTALLED. 12.1.2. RECTANGULAR DUCTWORK: PROVIDE ONE INCH (1") THICK ACOUSTIC LINING DIV.23. CURBS SHALL BE INSTALLED AT LEAST 14" ABOVE THE ROOF LEVEL. EQUAL TO JOHNS MANVILLE LINACOUSTIC RC COMPLETE WITH PERMACOTE 2.6. THE CONTRACTOR SHALL MAINTAIN ON SITE ONE (1) RECORD OF MECHANICAL ACRYLIC ANTI-MICROBIAL COATING. 6.3. PREMANUFACTURED EQUIPMENT CURBS SHALL BE SUPPLIED BY THE EQUIPMENT DRAWINGS THAT SHALL INDICATE WITH RED LINES ALL PROJECT CONDITIONS, MANUFACTURER. OCATIONS, CONFIGURATIONS AND ANY OTHER CHANGES OR DEVIATIONS WHICH 12.1.3. SPIRAL DUCTWORK: PROVIDE ONE INCH (1") THICK ACOUSTIC LINING EQUAL MAY VARY FROM THE ORIGINAL CONTRACT DOCUMENTS AND DRAWINGS. IN TO JOHNS MANVILLE SPINACOUSTIC PLUS ROUND DUCT LINER SYSTEM 6.4. PROVIDE 4" (100 MM) THICK CONCRETE HOUSEKEEPING PADS WHERE INDICATED ADDITION, THIS SET SHALL INCLUDE REVISIONS AS A RESULT OF ALL ADDENDAS, COMPLETE WITH PERMACOTE ANTI-MICROBIAL COATING. CHANGE NOTICES, SITE INSTRUCTIONS, ETC. UPON COMPLETION OF THE PROJECT ON ARCHITECTURAL AND/OR STRUCTURAL DRAWINGS. THE CONTRACTOR SHALL SUBMIT TO THE OWNER AND ENGINEER ONE (1) COPY 12.1.4. PROVIDE ACOUSTIC LINING AS SPECIFIED ON ALL SUPPLY, RETURN AND <u>FIRESTOPPING</u> EACH OF A HARDCOPY AND ELECTRONIC COPY (PDF) FOR REVIEW. ONE (1) SET EXHAUST FAN EQUIPMENT FOR 10'-0" (3.0 M) FROM THE INLET/OUTLET. OF BOTH COPIES SHALL ALSO BE INCLUDED IN THE CLOSEOUT DOCUMENT 7.1. PROVIDE FIRE STOPPING SYSTEMS AND PRODUCTS FOR ALL DUCTS, PIPING, ETC. PENETRATING FIRE SEPARATIONS THAT ARE ULC LISTED AND COMPLY WITH 12.2. THERMAL INSULATION 2.7. TWO (2) COPIES OF OPERATION AND MAINTENANCE MANUALS SHALL BE CAN4-S115S AND THE AUTHORITIES HAVING JURISDICTION. 12.2.1. PROVIDE THERMAL INSULATION WHERE NOTED ON MECHANICAL DRAWINGS. SUBMITTED TO THE CONSULTANT FOR REVIEW UPON PROJECT COMPLETION. THE 7.2. MAINTAIN ALL FLOOR AND WALL FIRE RATINGS TO COMPLY WITH BASE BUILDING INSULATE ALL DUCTWORK LEAVING OR ENTERING THE BUILDING FOR THE MANUALS SHALL CONTAIN THE FOLLOWING WHERE APPLICABLE: FIRST 6 FT. FROM THE BUILDING PENETRATION WITH 2" OF THERMAL STANDARDS AND THE AUTHORITIES HAVING JURISDICTION. - DESCRIPTION OF EACH SYSTEM - DESCRIPTION OF EACH MAJOR COMPONENT OF SYSTEM . PIPE, DUCT AND EQUIPMENT INSTALLATION ALL SHOP DRAWINGS WITH APPROVAL STAMPS 12.2.2. RECTANGULAR DUCTWORK: PROVIDE ONE INCH (1") JOHNS MANVILLE SERIES - EQUIPMENT MANUFACTURER'S INSTALLATION AND OPERATION INSTALL ALL PIPING, DUCTWORK AND EQUIPMENT TO PROVIDE ADEQUATE 814 SPIN-GLAS FIBER GLASS DUCT BOARD INSULATION WITH FSK FACING. MANUALS AND SPARE PARTS LIST CLEARANCES FOR SERVICING AS WELL AS MAXIMUM USABLE SPACE FOR ALL IMPALE ON MECHANICALLY FASTENED PINS LOCATED AT NOT MORE THAN 12" WIRING DIAGRAMS ON CENTRE, AND SECURE WITH SPEED WASHERS. LUBRICATION SCHEDULE - EQUIPMENT IDENTIFICATION LIST WITH SERIAL NUMBERS 8.2. INSTALL PIPING AND DUCTWORK STRAIGHT, IN A NEAT AND CLEAN FASHION AND 12.2.3. RIGID ROUND (SPIRAL) DUCTWORK: PROVIDE ONE INCH (1") JOHNS MANVILLE VALVE TAG SCHEDULES AND FLOW DIAGRAMS TIGHT TO STRUCTURES ABOVE (UNLESS OTHERWISE NOTED). MICROLITE EQ FSK FIBER GLASS DUCT WRAP INSULATION WHERE INDICATED FINAL AND REVIEWED BALANCING REPORTS (AIR AND WATER) ON DRAWINGS. ADHERE INSULATION TO DUCT SURFACE AND LAP ALL EDGES WATER TREATMENT PROCEDURE AND TESTS 8.3. TAKE MEASURES TO PROTECT COPPER PIPING CORROSION FROM CONTACT WITH - CONTROL DRAWINGS AND SEQUENCES OF OPERATION AT LEAST 2". SEAL JOINTS WITH 4" WIDE ALUMINUM FOIL TAPE. DISSIMILAR METALS. - AS-BUILT DRAWINGS (HARDCOPY AND ELECTRONIC) 12.2.4. FLEXIBLE DUCTWORK: PROVIDE ONE INCH (1.25") JOHNS MANVILLE WARRANTY DOCUMENTATION . HANGERS AND SUPPORTS FLEX-GLAS EQ FLEXIBLE DUCTWORK INSULATION WITH FSK FACING. LAP **EXECUTION** JOINTS AND SEAL WITH 4" WIDE ALUMINUM FOIL TAPE. PROVIDE HANGER SYSTEMS FOR ALL DUCTWORK, PIPING AND EQUIPMENT TO RENDER A SAFE AND FUNCTIONAL INSTALLATION. HANGER RODS SHALL BE 3.1. PERIODIC INSPECTIONS OF THE WORK WILL BE CONDUCTED OVER THE COURSE 12.2.5. WHERE DUCTWORK IS INSTALLED OUTSIDE THE BUILDING OR EXPOSED TO ATTACHED DIRECTLY TO THE STRUCTURE AND IN NO WAY SHALL BE ATTACHED TO OF THE PROJECT. ALL REPORTED DEFICIENCIES SHALL BE RECTIFIED BY THE THE ELEMENTS, PROVIDE TWO INCHES (2") OF THERMAL INSULATION, BUTT OTHER MECHANICAL COMPONENTS OR CEILING SYSTEMS. WHERE COMPONENTS CONTRACTOR IN A TIMELY FASHION. FAILURE TO DO SO WILL RESULT IN THE JOINTS TIGHTLY TOGETHER AND SEAL WASHERS, BREAKS AND JOINTS WITH ARE TO BE SUSPENDED BETWEEN JOISTS OR BEAMS, PROVIDE AUXILIARY STEEL CONTRACTOR NOT MEETING THE REQUIREMENTS OF THE CONTRACT DOCUMENTS. SELF-ADHERING FOUR INCHES (4") WIDE PLAIN ALUMINUM TAPE, OR CHANNELS TO SUIT. ADHERE FOIL WITH CHILDERS CP82 OR BAKELITE 230-39 ADHESIVE. 3.2. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE ALL 9.2. FOR GENERAL CONDITIONS, PROVIDE ROUND STEEL THREADED RODS CONFORMING INSPECTIONS WITH CITY AND/OR MUNICIPAL OFFICIALS AND ALL OTHER 12.3. JACKETING TO ASTM A-36. WHERE SPECIAL CONDITIONS EXIST, SUCH AS HIGH HUMIDITY OR AUTHORITIES HAVING JURISDICTION. EXPOSURE TO ELEMENTS. PROVIDE HANGER COMPONENTS TO SUIT. RECOVER ALL DUCTWORK OUTSIDE THE BUILDING OR EXPOSED TO THE 3.3. IN REGARDS TO TEMPORARY SERVICES, PROVIDE, AS REQUIRED BY THE ELEMENTS WITH ALUMINUM JACKETING TO ASTM B209 WITH MOISTURE 9.3. IN REGARDS TO ALL PIPING, PROVIDE SUPPORTS AT CONNECTION (SUCH AS HUB) AUTHORITY HAVING JURISDICTION, TEMPORARY FIRE PROTECTION SYSTEMS. BARRIER, THICKNESS 0.50MM SHEET, STUCCO EMBOSSED FINISH, JACKET AND AT EVERY CHANGE IN DIRECTION. REFRAIN FROM USING INSTALLED SYSTEMS FROM THE CONTRACT DOCUMENTS AS BANDING AND MECHANICAL SEALS 12MM WIDE AND 0.5MM THICK STAINLESS

13. HVAC BALANCING

13.1. PROVIDE BALANCING OF ALL AIR AND WATER SYSTEMS AS INDICATED ON

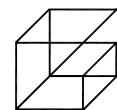
MECHANICAL DRAWINGS. THE BALANCING CONTRACTOR SHALL HAVE A MINIMUM

A TEMPORARY SERVICES. THIS SHALL APPLY TO ALL MECHANICAL SYSTEMS

INCLUDING HVAC, PLUMBING AND DRAINAGE, ETC.

10. STRUCTURAL AND SEISMIC

10.1. WHERE THERE IS NO STRUCTURAL DIVISION AS PART OF THE PROJECT, IT SHALL



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

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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



NO.	ISSUES	DATE
1	ISSUED FOR REVIEW	JAN. 23 2024
2	ISSUED FOR TENDER	FEB. 12 2025

PROJECT:

GROUND FLOOR WASHROOM RENOVATION

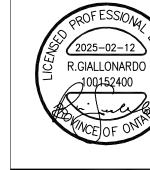
PORT PERRY HIGHSCHOOL

160 ROSA STREET PORT PERRY, ON, L9L 1L7 DURHAM DISTRICT SCHOOL BOARD

DRAWING:

MECHANICAL SPECIFICATIONS I





DESIGN BY

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Project Managers 250 Water Street Suite 201 Whitby, Ontario

% COMPLETE: DRAWN BY CHECKED BY:

DOC CONTROL:

SEPTEMBER 2023 AS NOTED Fax: (905) 666-5256 e-mail: bba@bba-archeng.com

FILE

DRAWING NO:

PLUMBING SPECIFICATIONS

- PROVIDE PLUMBING SYSTEMS AS PER DRAWINGS, SPECIFICATIONS, THE LATEST EDITION OF THE ONTARIO BUILDING CODE, MUNICIPAL BY-LAWS AND THE AUTHORITY HAVING JURISDICTION. THE TERM "SYSTEMS" REFERS TO ALL PIPING, FITTINGS, SUPPORTS, CURBS, ACCESSORIES, ETC.
- ALL ITEMS REQUIRED FOR PLUMBING SYSTEMS SHALL BE CSA APPROVED UNLESS OTHERWISE NOTED.
- CLEANING, FLUSHING AND DISINFECTING OF DOMESTIC WATER PIPING
- 3.1. FOLLOW PROCEDURES AS OUTLINED IN THE LATEST EDITION OF STANDARD AWWA
- C651. ENSURE THAT THE METHODS COMPLY WITH LOCAL BY-LAWS. 3.2. PREVENT CONTAMINATING MATERIAL FROM ENTERING THE SYSTEM DURING
- 3.3. REMOVE AND FLUSH ALL FOREIGN MATTER THAT HAS ENTERED THE PIPING.
- 3.4. PROTECT THE EXISTING DISTRIBUTION SYSTEM FROM BACKFLOW DUE TO

HYDROSTATIC PRESSURE AND DISINFECTION PROCEDURES.

STORAGE, CONSTRUCTION AND REPAIR.

- 3.5. CHLORINATE RESIDUAL CONTAMINATION THAT MAY REMAIN AND FLUSH THE CHLORINATED WATER WHEN COMPLETE. FOLLOWING THIS, DETERMINE THE BACTERIOLOGICAL QUALITY OF THE WATER BY LABORATORY TESTING. CONNECT THE WATER SYSTEM ONLY WHEN TEST RESULTS INDICATE AN APPROVED AND DISINFECTED SYSTEM.
- . <u>PIPING INSULATION</u>
- 4.1. PROVIDE PIPING INSULATION FOR PLUMBING SYSTEMS AS FOLLOWS:
- DCW: TYPE 'A', FOR ALL PIPE SIZES 1" THICK - DHW(R): TYPE 'A', UP TO 2"ø - 1" THICK, 2-1/2"ø AND UP - 1-1/2" CD (HORIZONTAL): TYPE 'A', 1/2"ø THROUGHOUT
- 4.2. TYPE 'A': JOHNS MANVILLE MICRO-LOK FIBER GLASS PIPE INSULATION COMPLETE WITH JACKET AND VAPOUR RETARDER. CONNECT SECTIONS OF INSULATION WITH BUTT STRIPS SUPPLIED BY THE INSULATION MANUFACTURER.
- 4.3. FOR NEW EXPOSED PIPING INSTALLED INDOORS AND/OR IN MECHANICAL ROOMS, RECOVER INSULATION WITH HEAVY-GAUGE PVC FITTINGS, COVER AND JACKETING EQUAL TO JOHNS MANVILLE ZESTON 300 SERIES.
- 4.4. PROVIDE INSULATION ON PIPES GOING THROUGH FIRE RATED FLOORS AND WALLS, AND <u>FIT TIGHT TO THE FIRE STOP MATERIAL</u>.
- 4.5. <u>HEATING WATER PIPING</u> SHALL HAVE GLASS FIBRE PIPE INSULATION.
- MAKE ALL PIPING AND ELECTRICAL CONNECTION TO PUMPS AND MOTOR ASSEMBLIES AS SPECIFIED. REFER TO PUMP SCHEDULE (WHERE APPLICABLE).
- PIPING MATERIALS (SEE BELOW FOR MATERIALS SPECIFICATIONS)
- 6.1. <u>DCW AND DHW(R)</u> 6.1.1. ABOVE GROUND: TYPE 1 6.1.2. UNDERGROUND: TYPE 2
- 6.2. <u>SANITARY & STORM DRAINAGE PIPING</u> 6.2.1. ABOVE GROUND: TYPE 3, TYPE 4, TYPE 6 (WHERE PERMITTED) 6.2.2. UNDERGROUND: TYPE 4 (2"ø MIN.), TYPE 5, TYPE 7
- 6.3. <u>VENT_PIPING</u>
 6.3.1. ABOVE GROUND: TYPE 3, TYPE 4, TYPE 6 (WHERE PERMITTED) 6.3.2. UNDERGROUND: TYPE4, TYPE 5, TYPE 7
- TYPE 1: TYPE L HARD DRAWN COPPER TUBING WITH WROUGHT COPPER FITTINGS AND LEAD-FREE SOLDER, CONTAINING LESS THAN .02 PERCENT LEAD, CONFORMING TO ASTM B32.
- TYPE 2: TYPE K SOFT ANNEALED COPPER TUBING WITH NO JOINTS. TYPE 3: TYPE DWV COPPER TUBE AND FITTINGS WITH 95:5 TIN:ANTIMONY SOLDER
- TYPE 4: CAST IRON PIPING AND FITTINGS COMPLYING WITH CAN/CSA-B70. FOR COMPRESSION GASKETS TO CAN/CSA-B70 WITH STAINLESS STEEL CLAMPS. FOR MECHANICAL JOINTS BELOW GRADE, USE MISSION HEAVYWEIGHT COUPLINGS FOR HUB AND SPIGOT CONNECTIONS, PROVIDE NEOPRENE GASKET TO CAN/CSA-B70 AND COLD CAULKING COMPOUNDS. DO NOT USE HUB AND SPIGOT FOR ABOVE GROUND
- TYPE 5: IPEX RING-TITE PVC SDR 35 SEWER PIPE IN COMPLIANCE WITH CSA B182.2 AND CSA B182.7. LATERALS WILL BE IPEX RING-TITE PVC SDR 28 IN COMPLIANCE WITH CSA B182.2.
- TYPE 6: IPEX XFR PIPING AND FITTINGS COMPLYING WITH CSA B181.2, SCHEDULE 40 WITH A FLAME SPREAD RATING OF NOT GREATER THAN 25 AND A SMOKE DEVELOPED CLASSIFICATION OF LESS THAN 50.
- TYPE 7: ROYAL ABS-DWV PIPING AND FITTINGS CERTIFIED TO CSA B181.1.
- 7.1. PROVIDE ASTM DOMESTIC WATER VALVES TO THE FOLLOWING KITZ FIGURE
- 7.1.1. <u>GATE VALVES</u> 7.1.1.1. <u>2</u>"ø AND SMALLER: SOLDERED, 1400 kPa [200psi] W.O.G. FIG. 44 7.1.1.2. 2-1/2"ø AND LARGER: FLANGED, 1400 kPa [200psi] W.O.G. FIG. 44
- 7.1.2. <u>GLOBE VALVES</u> 7.1.1.1. <u>2"ø AND SMALLER: SOLDERED, 2070 kPa [300 psi], W.O.G. FIG. 10 WITH</u> SUITABLE COMPOSITION DISC. 7.1.1.2. 2-1/2"ø AND LARGER: FLANGED, 1400 kPa [200 psi], W.O.G. FIG. 76
- 7.1.2. <u>STANDARD CHECK VALVES</u>
 7.1.1.1. <u>2"ø AND SMALLER: SOLDERED, 2070 kPa [300 psi], W.O.G. FIG. 23</u> 7.1.1.2. 2-1/2"ø AND LARGER: FLANGED, 1400 kPa [200 psi], W.O.G. FIG. 78
- 7.1.2. <u>BALL VALVES</u>
 7.1.1.1. 2"Ø AND SMALLER: BALL VALVES MAY BE PROVIDED AS A SUBSTITUTE FOR GATE AND GLOBE VALVES. PROVIDE BALL VALVES WITH BRASS OR BRONZE BODY, CHROME PLATED SOLID BALL, PTFE SEATS AND SEALS
- 7.2. PROVIDE <u>ISOLATION VALVES</u> FOR DOMESTIC HOT AND COLD WATER SYSTEMS AT MAIN PIPING, BRANCH PIPING AND AT FIXTURES AND EQUIPMENT.

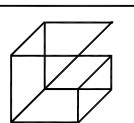
AND FULL PORT, KITZ FIG. 59

- . <u>VERIFY ALL SITE CONDITIONS</u> AFTER CONTRACT AWARD TO ENSURE THAT PIPING INVERTS ARE SUFFICIENT FOR THE RUNS SHOWN ON MECHANICAL DRAWINGS. REPORT DISCREPANCIES TO ENGINEER IMMEDIATELY.
- CARRY OUT TESTING ON ALL SYSTEMS INCLUDING SANITARY DRAINAGE SYSTEMS, STORM DRAINAGE SYSTEMS AND DOMESTIC WATER SYSTEMS AS PER PART 7.3.6 OF THE ONTARIO BUILDING CODE AND THE AUTHORITIES HAVING JURISDICTION. TESTS MAY INCLUDE, BUT ARE NOT LIMITED TO, A WATER TEST, BACKFLOW TEST, PRESSURE TEST, BALL TEST AND FINAL TEST.
- O. MAKE PROVISIONS FOR <u>MAINTAINING THE SEAL</u> OF ALL HUB DRAINS, FLOOR DRAINS, ETC, IN ACCORDANCE WITH THE ONTARIO BUILDING CODE. WHERE MECHANICAL OR ELECTRICAL DEVICES ARE USED, THE MINIMUM TUBING SIZE SHALL BE 3.8".
- . PROVIDE <u>FIRESTOPPING</u> AT ALL FIRE—RATED WALL AND FLOOR ASSEMBLIES AS PER THE 'GENERAL SPECIFICATIONS'.
- 2. <u>COORDINATE EXACT LOCATIONS</u> OF ALL PLUMBING FIXTURES WITH ALL TRADES AND ARCHITECTURAL/INTERIOR DESIGN DRAWINGS. DO NOT SCALE MECHANICAL DRAWINGS.
- 3. WHERE PLUMBING FIXTURES ARE SPECIFIED, THE CONTRACTOR SHALL PROVIDE ALL ACCESSORIES AND APPURTENANCES TO PROVIDE A FULL AND COMPLETE INSTALLATION OF THE RESPECTIVE FIXTURE. THIS MAY INCLUDE, BUT IS NOT LIMITED TO, STOP VALVES, RISER PIPING, ESCUTCHEON PLATES, ETC.
- 14. PROVIDE VENTING SYSTEMS IN ACCORDANCE WITH PART 7 OF THE ONTARIO BUILDING

	HVAC LEGEND	
	EXISTING DUCTWORK/EQUIPMENT	
	EXISTING DUCTWORK/EQUIPMENT TO BE REMOVED	
	NEW RIGID DUCTWORK	
	EXISTING FLEXIBLE DUCTWORK	
	NEW FLEXIBLE DUCTWORK	
	SUPPLY AIR DUCTWORK UP	
×	SUPPLY AIR DUCTWORK DOWN	
	RETURN AIR DUCTWORK UP	
	RETURN AIR DUCTWORK DOWN	
S/A	'SUPPLY AIR'	
R/A	'RETURN AIR'	
E/A	'EXHAUST AIR'	
O/A	'OUTSIDE AIR'	
T/A	'TRANSFER AIR'	
F/D	'FIRE DAMPER'	
L BD	'BALANCING DAMPER'	
BDD	'BACKDRAFT DAMPER'	
7 M/D	'MOTORIZED DAMPER'	
<u> </u>	SQUARE SUPPLY AIR DIFFUSER	
	SUPPLY AIR GRILLE	
	RETURN AIR GRILLE	
	SLOT DIFFUSER	
0	THERMOSTAT	
Θ	HUMIDISTAT	
© —	CARBON DIOXIDE SENSOR	
	CARBON MONOXIDE DETECTOR	
<u> </u>	ZONE SENSOR	
\$ A−6"ø	WALL SWITCH DIFF TYPE/SIZE	
150CFM	AIR CAPACITY	
TYP.	'TYPICAL'	
<u>X-XX</u>	EQUIPMENT TAG	
СТЕ	'CONNECT TO EXISTING'	
	FAN-POWERED TERMINAL UNIT	
	VAV TERMINAL UNIT	
	CABINET EXHAUST FAN	
H _ HI	INLINE EXHAUST FAN	
	ELECTRIC DUCT HEATER	
©	CIRCULAR EXHAUST FAN	_
	BASEBOARD HEATER	
	FORCE FLOW HEATER	
Ž-	UNIT HEATER	
¥======	DUCTWORK WITH ACOUSTIC OR THERMAL INSULATION (SEE SPECS.)	
	DUCTWORK WITH ACOUSTIC INSULATION	
<u> </u>	DUCTWORK WITH THERMAL INSULATION	
	CONTINUATION OF DUCTWORK/PIPING	
	EXISTING CONTROL WIRING	
	NEW CONTROL WIRING	
	SPIN-ON DUCT CONNECTION WITH BALANCING DAMPER	
	DRAWING NOTE	
\bigcirc	ROUND SUPPLY AIR DIFFUSER	
<u> </u>	LOUVERED FACE SUPPLY/RETURN GRILLE	
CAP 🗖	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
ー REFS ー ー	REFRIGERANT SUCTION LINE
以	3-PORT CONTROL VALVE
Ν Σ	2-WAY CONTROL VALVE
 ⊠	GATE VALVE GLOBE VALVE
<u> </u>	CHECK VALVE
CBV	CIRCUIT BALANCING VALVE
—————————————————————————————————————	BALL VALVE
遂	SAFETY RELIEF VALVE
\vdash	STRAINER
· I I	UNION
→	CONCENTRIC REDUCER
4	ECCENTRIC REDUCER
N.O.	'NORMALLY OPEN'
N.C.	'NORMALLY CLOSED'
φ	PRESSURE GAUGE
	THERMOMETER
	AQUASTAT
PRV	PRESSURE REDUCING VALVE
VB	VACUUM BREAKER
	BACKFLOW PREVENTER
FS 🗹	FLOW SWITCH
AAV Ū	AUTOMATIC AIR VENT
Lwco	LOW WATER CUT-OFF PLUG/COCK VALVE
Z	BUTTERFLY VALVE
	TEST PORT
	PUMP
CAP n	CAP ON PIPING
7	DRAWING NOTE
\bowtie	ISOLATION VALVE

	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	
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
TW	EXISTING TEMPERED WATER
—— EX.G ——	EXISTING GAS PIPING
G	LOW PRESSURE GAS PIPING
HPG ——	HIGH PRESSURE GAS PIPING
	EXISTING PIPING/EQUIPMENT TO BE REMOVED
\$252	HEAT TRACING ON PIPE
~	CONTINUATION OF DUCTWORK/PIPING
₹	GAS COCK VALVE
FD ● FFD	GAS COCK VALVE FLOOR DRAIN/FUNNEL FLOOR DRAIN
FD ⊕ FFD	FLOOR DRAIN/FUNNEL FLOOR DRAIN
FD ● FFD	FLOOR DRAIN/FUNNEL FLOOR DRAIN HUB DRAIN
FD ➡ FFD HD • AD □	FLOOR DRAIN/FUNNEL FLOOR DRAIN HUB DRAIN AREA DRAIN
FD ● FFD HD ○ AD ○ RD ●	FLOOR DRAIN/FUNNEL FLOOR DRAIN HUB DRAIN AREA DRAIN ROOF DRAIN
FD • FFD HD • AD • RD • CB CO •	FLOOR DRAIN/FUNNEL FLOOR DRAIN HUB DRAIN AREA DRAIN ROOF DRAIN CATCH BASIN BURIED CLEANOUT
FD ● FFD HD ○ AD ② RD ● CB □ CO ○ CO □	FLOOR DRAIN/FUNNEL FLOOR DRAIN HUB DRAIN AREA DRAIN ROOF DRAIN CATCH BASIN BURIED CLEANOUT EXPOSED CLEANOUT
FD • FFD HD • AD • RD • CB CO • CO •	FLOOR DRAIN/FUNNEL FLOOR DRAIN HUB DRAIN AREA DRAIN ROOF DRAIN CATCH BASIN BURIED CLEANOUT EXPOSED CLEANOUT SANITARY 'P' TRAP
FD • FFD HD • AD • RD • CB CO • CO • CO •	FLOOR DRAIN/FUNNEL FLOOR DRAIN HUB DRAIN AREA DRAIN ROOF DRAIN CATCH BASIN BURIED CLEANOUT EXPOSED CLEANOUT SANITARY 'P' TRAP PIPE UP
FD • FFD HD • AD • RD • CO • CO • CO • CO • TO	FLOOR DRAIN/FUNNEL FLOOR DRAIN HUB DRAIN AREA DRAIN ROOF DRAIN CATCH BASIN BURIED CLEANOUT EXPOSED CLEANOUT SANITARY 'P' TRAP PIPE UP PIPE DOWN
FD FFD HD O AD O RD D CO O CO I VTR	FLOOR DRAIN/FUNNEL FLOOR DRAIN HUB DRAIN AREA DRAIN ROOF DRAIN CATCH BASIN BURIED CLEANOUT EXPOSED CLEANOUT SANITARY 'P' TRAP PIPE UP PIPE DOWN VENT THROUGH ROOF
FD • FFD HD • AD • RD • CO • CO • VTR CAP •	FLOOR DRAIN/FUNNEL FLOOR DRAIN HUB DRAIN AREA DRAIN ROOF DRAIN CATCH BASIN BURIED CLEANOUT EXPOSED CLEANOUT SANITARY 'P' TRAP PIPE UP PIPE DOWN
FD FFD HD O AD O RD D CO D CO D VTR	FLOOR DRAIN/FUNNEL FLOOR DRAIN HUB DRAIN AREA DRAIN ROOF DRAIN CATCH BASIN BURIED CLEANOUT EXPOSED CLEANOUT SANITARY 'P' TRAP PIPE UP PIPE DOWN VENT THROUGH ROOF
FD • FFD HD • AD • RD • CO • CO • VTR CAP •	FLOOR DRAIN/FUNNEL FLOOR DRAIN HUB DRAIN AREA DRAIN ROOF DRAIN CATCH BASIN BURIED CLEANOUT EXPOSED CLEANOUT SANITARY 'P' TRAP PIPE UP PIPE DOWN VENT THROUGH ROOF CAP ON PIPING
FD FFD HD O AD O RD D CO U CO U VTR CAP T (7)	FLOOR DRAIN/FUNNEL FLOOR DRAIN HUB DRAIN AREA DRAIN ROOF DRAIN CATCH BASIN BURIED CLEANOUT EXPOSED CLEANOUT SANITARY 'P' TRAP PIPE UP PIPE DOWN VENT THROUGH ROOF CAP ON PIPING DRAWING NOTE
FD • FFD HD • AD • RD • CO • CO • VTR CAP • (7)	FLOOR DRAIN/FUNNEL FLOOR DRAIN HUB DRAIN AREA DRAIN ROOF DRAIN CATCH BASIN BURIED CLEANOUT EXPOSED CLEANOUT SANITARY 'P' TRAP PIPE UP PIPE DOWN VENT THROUGH ROOF CAP ON PIPING DRAWING NOTE ISOLATION VALVE
FD • FFD HD • AD • RD • CO • CO • VTR CAP • (7)	FLOOR DRAIN/FUNNEL FLOOR DRAIN HUB DRAIN AREA DRAIN ROOF DRAIN CATCH BASIN BURIED CLEANOUT EXPOSED CLEANOUT SANITARY 'P' TRAP PIPE UP PIPE DOWN VENT THROUGH ROOF CAP ON PIPING DRAWING NOTE ISOLATION VALVE PIPING DROPDOWN
FD • FFD HD • AD • RD • CO • CO • VTR CAP • (7)	FLOOR DRAIN/FUNNEL FLOOR DRAIN HUB DRAIN AREA DRAIN ROOF DRAIN CATCH BASIN BURIED CLEANOUT EXPOSED CLEANOUT SANITARY 'P' TRAP PIPE UP PIPE DOWN VENT THROUGH ROOF CAP ON PIPING DRAWING NOTE ISOLATION VALVE PIPING DROPDOWN
FD FFD HD O AD O RD B CO O CO I VTR CAP I (7)	FLOOR DRAIN/FUNNEL FLOOR DRAIN HUB DRAIN AREA DRAIN ROOF DRAIN CATCH BASIN BURIED CLEANOUT EXPOSED CLEANOUT SANITARY 'P' TRAP PIPE UP PIPE DOWN VENT THROUGH ROOF CAP ON PIPING DRAWING NOTE ISOLATION VALVE PIPING DROPDOWN
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FD FFD HD O AD O RD B CO O CO I VTR CAP I (7)	FLOOR DRAIN/FUNNEL FLOOR DRAIN HUB DRAIN AREA DRAIN ROOF DRAIN CATCH BASIN BURIED CLEANOUT EXPOSED CLEANOUT SANITARY 'P' TRAP PIPE UP PIPE DOWN VENT THROUGH ROOF CAP ON PIPING DRAWING NOTE ISOLATION VALVE PIPING DROPDOWN
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FD FFD HD O AD O RD B CO O CO I VTR CAP I (7)	FLOOR DRAIN/FUNNEL FLOOR DRAIN HUB DRAIN AREA DRAIN ROOF DRAIN CATCH BASIN BURIED CLEANOUT EXPOSED CLEANOUT SANITARY 'P' TRAP PIPE UP PIPE DOWN VENT THROUGH ROOF CAP ON PIPING DRAWING NOTE ISOLATION VALVE PIPING DROPDOWN
FD FFD HD O AD O RD B CO O CO I VTR CAP I (7)	FLOOR DRAIN/FUNNEL FLOOR DRAIN HUB DRAIN AREA DRAIN ROOF DRAIN CATCH BASIN BURIED CLEANOUT EXPOSED CLEANOUT SANITARY 'P' TRAP PIPE UP PIPE DOWN VENT THROUGH ROOF CAP ON PIPING DRAWING NOTE ISOLATION VALVE PIPING DROPDOWN
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Giallonardo — Engineering Inc. 220-4550 Highway 7 Woodbridge, ON L4L 4Y7 (905) 265 - 1052 info@giallonardoeng.com www.giallonardoeng.com

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PROJECT:

GROUND FLOOR WASHROOM RENOVATION

PORT PERRY HIGHSCHOOL

160 ROSA STREET PORT PERRY, ON, L9L 1L7 DURHAM DISTRICT SCHOOL BOARD

DRAWING:

MECHANICAL SPECIFICATIONS II AND LEGEND





DOC CONTROL:

% COMPLETE:

BARRY BRYAN ASSOCIATES Architects Engineers Project Managers 250 Water Street Suite 201

DRAWN BY: CHECKED BY: JΗ Whitby, Ontario SEPTEMBER 2023

L1N 0G5 Tel: (905) 666-5252 Fax: (905) 666-5256 e-mail: bba@bba-archeng.com

AS NOTED FILE:

DESIGN BY:

RG

	FIXTURES		PIPE	E CONNECT	ΓΙΟΝ	
TAG	SPECIFICATION	TRAP	COLD	HOT WATER	DRAIN	VEN
WC1	WALL MOUNTED TOILET - VITREOUS CHINA - FOR FLUSHOMETER - EXPOSED - MANUAL	75ø	25ø	_	75ø	38
	AMERICAN STANDARD 2257101.020 TOILET — AFWALL MILLENNIUM FLOWISE, TOILET, WALL—HUNG WITH WALL OUTLET, TOILET OPERATES IN THE RANGE OF 4.2 TO 6.0 LPF (1.1 — 1.6 GPF), WHITE FINISH VITREOUS CHINA, ELONGATED BOWL.					
	CENTOCO 1500STSCCFE-001 SEAT - FAST-N-LOCK, FOR ELONGATED BOWL, OPEN FRONT, POLYPROPYLENE, TOILET SEAT, LESS SEAT COVER, AND PLASTIC COMMERCIAL CHECK HINGES, WHITE FINISH, FAST-N-LOCK MOUNTING SYSTEM TAKES THE GUESS WORK OUT WHEN TIGHTENING THE HARDWARE. THE SPECIALLY DESIGNED FASTENERS IN CLICK" WHEN THE APPROPRIATE TORQUE IS REACHED. THE BOLT AND NUT MATERIAL SHALL BE STAINLESS STEEL					
	SLOAN SL-ROYAL 111-1.28 FLUSH VALVE - ROYAL MANUAL EXPOSED WATER CLOSET FLUSHOMETER, HIGH EFFICIENCY 4.8 LPF (1.28 GPF), 38 MM (1-1/2") SPUD COUPLING FOR TOP SPUD TOILET, CONSTRUCTED FROM SEMI-RED BRASS, POLISHED CHROME FINISH, CHLORAMINE RESISTANT PERMEX SYNTHETIC RUBBER DIAPHRAGM, METAL OSCILLATING HANDLE WITH TRIPLE SEAL HANDLE PACKING, FLUSH TUBE FOR 292 MM (11-1/2") ROUGH-IN, ADJUSTABLE TAILPIECE, 25 MM (1") I.P.S. SCREWDRIVER BAK-CHEK ANGLE CONTROL STOP WITH FREE SPINNING VANDAL-RESISTANT STOP CAP, DUAL-FILTERED FIXED BYPASS, SWEAT SOLDER ADAPTER KIT WITH COVER TUBE, HIGH BACK PRESSURE VACUUM BREAKER, LNLET LOCATED RIGHT OF VALVE, 25 MM (1") SUPPLY PIPE, CAST WALL FLANGE WITH SET SCREW, NON-HOLD-OPEN, NO EXTERNAL VOLUME ADJUSTMENT, FIXED VOLUME ACCURACY IS CONTROLLED BY CID TECHNOLOGY, 103 - 552 KPA (15 - 80 PSI) OPERATING WATER PRESSURE.					
	WATTS ISCA-101-L/R-M11 CARRIER - CLOSET CARRIER, ADJUSTABLE FOR STANDARD AND WHEELCHAIR HEIGHT, 102 MM (4") NO HUB WASTE, 51 MM (2") NO HUB VENT CONNECTIONS, TILING FRAME.					
	CHAMPION MI—XHUB COUPLING — NEOPRENE RUBBER, SHIELDED TRANSITION COUPLING, UNSIZED PIPE, FOUR CLAMPS FOR 2" TO 4" PIPESIZE, SIX CLAMPS FOR 5" TO 15" PIPESIZE, TYPE 304 STAINLESS STEEL CLAMPS, TYPE 304 AISI STAINLESS STEEL EYELETS.					
WC2	WALL MOUNTED TOILET - VITREOUS CHINA - FOR FLUSHOMETER - EXPOSED - MANUAL - BARRIER FREE AMERICAN STANDARD 2257101.020 TOILET - AFWALL MILLENNIUM FLOWISE, TOILET, WALL-HUNG WITH WALL OUTLET, TOILET OPERATES IN THE RANGE OF 4.2 TO 6.0 LPF (1.1 - 1.6 GPF), WHITE FINISH VITREOUS CHINA, ELONGATED BOWL.	75ø	25ø	_	75ø	38
	CENTOCO 1500STSCCSSFE-001 SEAT - FAST-N-LOCK, FOR ELONGATED BOWL, OPEN FRONT, POLYPROPYLENE, TOILET SEAT, LESS SEAT COVER, AND SELF-SUSTAINING PLASTIC COMMERCIAL CHECK HINGES, WHITE FINISH, FAST-N-LOCK MOUNTING SYSTEM TAKES THE GUESS WORK OUT WHEN TIGHTENING THE HARDWARE. THE SPECIALLY DESIGNED FASTENERS IN CLICK" WHEN THE APPROPRIATE TORQUE IS REACHED. THE BOLT AND NUT MATERIAL SHALL BE STAINLESS STEEL					
	SLOAN SL-ROYAL 111-1.28 FLUSH VALVE - ROYAL MANUAL EXPOSED WATER CLOSET FLUSHOMETER, HIGH EFFICIENCY 4.8 LPF (1.28 GPF), 38 MM (1-1/2") SPUD COUPLING FOR TOP SPUD TOILET, CONSTRUCTED FROM SEMI-RED BRASS, POLISHED CHROME FINISH, CHLORAMINE RESISTANT PERMEX SYNTHETIC RUBBER DIAPHRAGM, METAL OSCILLATING HANDLE WITH TRIPLE SEAL HANDLE PACKING, FLUSH TUBE FOR 292 MM (11-1/2") ROUGH-IN, ADJUSTABLE TAILPIECE, 25 MM (1") I.P.S. SCREWDRIVER BAK-CHEK ANGLE CONTROL STOP WITH FREE SPINNING VANDAL-RESISTANT STOP CAP, DUAL-FILTERED FIXED BYPASS, SWEAT SOLDER ADAPTER KIT WITH COVER TUBE, HIGH BACK PRESSURE VACUUM BREAKER, LNLET LOCATED RIGHT OF VALVE, 25 MM (1") SUPPLY PIPE, CAST WALL FLANGE WITH SET SCREW, NON-HOLD-OPEN, NO EXTERNAL VOLUME ADJUSTMENT, FIXED VOLUME ACCURACY IS CONTROLLED BY CID TECHNOLOGY, 103 - 552 KPA (15 - 80 PSI) OPERATING WATER PRESSURE.					
	FRANKE COMMERCIAL CM-16104-WM BACKREST - WALL MOUNTING, BACK REST, SOLID CORE PLASTIC LAMINATE PANEL BACK, ANTIQUE WHITE WATTS ISCA-121-M11 CARRIER - CLOSET CARRIER, ADJUSTABLE FOR STANDARD AND WHEELCHAIR HEIGHT, 102 MM (4") NO HUB WASTE, 51 MM (2") NO HUB VENT CONNECTIONS, TILING FRAME.					
	CHAMPION MI—XHUB COUPLING — NEOPRENE RUBBER, SHIELDED TRANSITION COUPLING, UNSIZED PIPE, FOUR CLAMPS FOR 2" TO 4" PIPESIZE, SIX CLAMPS FOR 5" TO 15" PIPESIZE, TYPE 304 STAINLESS STEEL CLAMPS, TYPE 304 AISI STAINLESS STEEL EYELETS.					
L1	WALL MOUNT BASIN - MANUAL FAUCET	32ø	12ø	12ø	32ø	3:
	AMERICAN STANDARD 9134001EC.020 BASIN — DECORUM, WALL—HUNG LAVATORY, VITREOUS CHINA, EVERCLEAN ANTIMICROBIAL SURFACE, WHITE FINISH, CENTER HOLE ONLY.					
	AMERICAN STANDARD 0059.020EC SHROUD/KNEE GUARD - VITREOUS CHINA KNEE CONTACT GUARD.					
	MOEN MODEL 8894 SINGLE-HANDLE ADA METERING LAVATORY FAUCET - CHROME PLATED, METERING FAUCET, LEVER STYLE HANDLE, SINGLE HOLE CENTERSET, CYCLE TIME FROM 5-60 SECONDS, 0.5 GPM (1.9 LPM) FLOW RATE, SELF CONTAINED METERING MECHANISM, MULTI-STREAM LAMINAR FLOW.					
	LAWLER 570-86820 MIXING VALVE - POINT OF USE, THERMOSTATIC MASTER WATER MIXING CONTROL VALVE, LEAD FREE BRASS BODY CONSTRUCTION, NICKEL PLATED FINISH, 1.9 - 30 LPM (0.5 - 8 GPM) RANGE FOR FLOWRATE, 11 LPM (3 GPM) TEMPERED FLOWRATE @ 5 PSI PRESSURE DROP, 4-7/8" (124 MM) HEIGHT, 3/8" MNPT (9.5 MM) INLET, 95-115 'F OUTLET WATER TEMPERATURE RANGE, 3/8" MNPT (9.5 MM) OUTLET, INTERNAL CHECKS, OFFERS CHOICE OF TEMPERATURE SETTINGS FROM 95' THROUGH 115 'F., 125 PSI MAX HYDROSTATIC PRESSURE, ±20% PRESSURE VARIATION, 7 GPM FLOWRATE @ 45 PSI.					
	WATTS WCA-411 CARRIER - WCA-411/WCA-411-WC, LAVATORY CARRIER, FOR CONCEALED ARM CARRIER, ADJUSTABLE ARMS, EPOXY COATED CAST IRON. PROVIDE FIXTURE DRAIN AND P-TRAP EQUAL TO MCGUIRE 155A AND MCGUIRE 8872C, HEAVY DUTY LOOSE KEY ANGLE STOPS, FLEXIBLE RISERS AND ALL OTHER ACCESSORIES REQUIRED FOR A FULL AND COMPLETE INSTALLATION.					
L2	WALL MOUNT BASIN - AUTOMATIC FAUCET	32ø	12ø	12ø	32ø	32
	ACORN S/S DELUXE SINK DSW260 - STAINLESS STEEL, 2 USER, 60" WIDE, WALL-HUNG LAVATORY, 4" CENTER SET PRE DRILLED, STAINLESS STEEL TRAP ENCLOSURE.					
	MOEN MODEL 8894 SINGLE—HANDLE ADA METERING LAVATORY FAUCET — CHROME PLATED, METERING FAUCET, DECK PLATE, LEVER STYLE HANDLE, SINGLE HOLE CENTERSET, CYCLE TIME FROM 5—60 SECONDS, 0.5 GPM (1.9 LPM) FLOW RATE, SELF CONTAINED METERING MECHANISM, MULTI—STREAM LAMINAR FLOW.					
	LAWLER 570-86820 MIXING VALVE - POINT OF USE, THERMOSTATIC MASTER WATER MIXING CONTROL VALVE, LEAD FREE BRASS BODY CONSTRUCTION, NICKEL PLATED FINISH, 1.9 - 30 LPM (0.5 - 8 GPM) RANGE FOR FLOWRATE, 11 LPM (3 GPM) TEMPERED FLOWRATE © 5 PSI PRESSURE DROP, 4-7/8" (124 MM) HEIGHT, 3/8" MNPT (9.5 MM) INLET, 95-115 'F OUTLET WATER TEMPERATURE RANGE, 3/8" MNPT (9.5 MM) OUTLET, INTERNAL CHECKS, OFFERS CHOICE OF TEMPERATURE SETTINGS FROM 95' THROUGH 115 'F., 125 PSI MAX HYDROSTATIC PRESSURE, ±20% PRESSURE VARIATION, 7 GPM FLOWRATE © 45 PSI.					
	PROVIDE FIXTURE DRAIN AND P-TRAP EQUAL TO MCGUIRE 155A AND MCGUIRE 8872C, HEAVY DUTY LOOSE KEY ANGLE STOPS, FLEXIBLE RISERS AND ALL OTHER ACCESSORIES REQUIRED FOR A FULL AND COMPLETE INSTALLATION.					
SH1	WALL MOUNT SHOWER HEAD - LEVER STYLE HANDLE -	_	12ø	12ø	_	
	AMERICAN STANDARD TU075500.002 COMPLETE SHOWER TRIM — WATER—SAVING PRESSURE BALANCE BATH/SHOWER TRIM WITH DOUBLE CERAMIC PRESSURE BALANCE CARTRIDGE, POLISHED CHROME FINISH, TRIM VALVE ONLY, 1.75 GPM (6.6 LPM) MAXIMUM FLOWRATE					
	AMERICAN STANDARD RU101SS SHOWER VALVE — FLASH, WITH SCREWDRIVER STOPS, CAST BRASS CONSTRUCTION, SHOWER VALVE, PRESSURE BALANCE ROUGH VALVE BODY ONLY, LESS TRIM					
	AMERICAN STANDARD 1660711.002 SHOWERHEAD - FLOWISE, SHOWERHEAD, POLISHED CHROME FINISH, 1.5GPM/5.7L/MIN. MAXIMUM FLOW RATE					
wco	WALL CLEANOUT - WALL ACCESS	_	_	_	MATCH PIPE	
	WATTS CO-380-RD CLEANOUT - NON-ADJUSTABLE WALL CLEANOUT, CAST IRON, NO-HUB OUTLET, ROUND STAINLESS STEEL ACCESS COVER REMOVABLE GAS TIGHT GASKETED BRASS CLEANOUT PLUG FOR URINAL.				SIZE	
SD1	SHOWER DRAIN ZHIDN ZNOOL VE D. V. ELOOP DRAIN CAST IRON ELOOP DRAIN WITH A 165 MM (6 1/3") IN DIAM PODY WITH A 102 MM (4") IN DIAM THREADED.	75ø	_	_	75ø	3
	ZURN ZN211-Y5-P-Y FLOOR DRAIN - CAST IRON FLOOR DRAIN WITH A 165 MM (6-1/2") IN DIAM. BODY WITH A 102 MM (4") IN DIAM. THREADED THROAT TO RECEIVE ADJUSTABLE 127 MM (5") IN DIAM. ADJUSTABLE ROUND STRAINER COMBINED WITH 127 MM (5 X 5") SQUARE POLISHED NICKEL BRONZE REGULAR TRAFFIC GRATE, TRAP PRIMER CONNECTION, SEDIMENT BUCKET.					
FD	FLOOR DRAIN	75ø	_	_	75ø	38
	WATTS FD-100NH-C-A5-1 FLOOR DRAIN - EPOXY COATED CAST IRON, FLOOR DRAIN, ADJUSTABLE ROUND 6 MM (1/4") THICK TOP, NO-HUB OUTLET, 127 MM (5") DIAMETER NICKEL BRONZE STRAINER, ANCHOR FLANGE, TRAP PRIMER TAPPING, REVERSIBLE MEMBRANE CLAMP, COLLAR WITH PRIMARY AND SECONDARY WEEPHOLES, 52 CM² (8 SQ. IN) FREE AREA.					
TSP	FLOW ACTIVATED TRAP PRIMER	_	12ø	_	-	
	PPP PRO1-500-DU-4 TRAP PRIMER - FLOW ACTIVATED TRAP PRIMER, C68020 LEAD FREEBRASS, 0.1 LPM (0.25 GPM), 1/2" FNPT (12 MM) INLET, 1/2" FIP (12 MM) OUTLET, NEOPERL CHECK VALVE, GREY PVC CHECK VALVE ADAPTER, STAINLESS STEEL SCREEN, COPPER BODY DISTRIBUTION UNIT WITH 4 - 3/8" FPT BRASS DISCHARGE FITTINGS AND 13 MM (1/2") MALE NPT COMPOSITE INLET.					
HB	HOSE BIBB — LOCKABLE WALL BOX HOSE BIBB — IN WALL C/W WHITE POWDER COATED LOCKABLE ACCESS PANEL. TO MATCH EXISTING IN SECOND FLOOR WASHROOM.	_	12ø	_	_	-

	FAN SCHEDULE													
TAG	MANU.	MODEL	LOCATION	SERVICE	CAP. (L/S)	ESP (IN.WG.)	RPM	DRIVE	TYPE	MOTOR (W)	V/PH/HZ	STARTER	WEIGHT (KG)	REMARKS
EF-1	CARNES	VCDD015I	CLASSROOM	WASHROOM EXHAUST	47	0.375"	920	DIRECT	INLINE	100	120/1/60	BAS	_	INLINE CABINET FAN C/W INLET AND OUTLET FLEXIBLE CONNECTIONS, BACKDRAFT DAMPER, VIBRATION ISOLATION AND DISCONNECT SWITCH. TERMINATE ON ROOF WITH GOOSENECK C/W BIRDSCREEN. CONNECT TO BAS AND INCLUDE FOR GRAPHICS, PROGRAMMING ETC. OPERATION SCHEDULE TO BE COORDINATED WITH BUILDING OPERATIONS PERSONNEL.
EF-2	CARNES	VCDD030I	VOCAL MUSIC ROOM 148A	WASHROOM EXHAUST	94	0.500"	875	DIRECT	INLINE	212	120/1/60	BAS	_	INLINE CABINET FAN C/W INLET AND OUTLET FLEXIBLE CONNECTIONS, BACKDRAFT DAMPER, VIBRATION ISOLATION AND DISCONNECT SWITCH. TERMINATE ON ROOF WITH GOOSENECK C/W BIRDSCREEN. CONNECT TO BAS AND INCLUDE FOR GRAPHICS, PROGRAMMING ETC. OPERATION SCHEDULE TO BE COORDINATED WITH BUILDING OPERATIONS PERSONNEL.

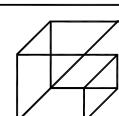
NOTES:

1. ALL MOTORS, STARTERS, CONTACTORS, DISCONNECT SWITCHES AND CONTROL DEVICES SHALL BE PROVIDED BY DIV.23 AND INSTALLED BY DIV.26.
2. ALL LOW VOLTAGE WIRING TO BE PROVIDED BY DIV.23.

	DIFFUSER SCHEDULE					
TAG	MAKE/MODEL	FINISH	REMARKS			
A	EH PRICE MODEL 80 EGG CRATE GRILLE	-	1/2"x1/2"x1/2" ALUMINUM GRID CORE FOR DUCT MOUNTING C/W OPPOSED BLADE DAMPER. SIZE AS INDICATED ON DRAWINGS.			
	NAILOR MODEL 61DGD-FR FIRE RATED DOOR GRILLE	_	STEEL CONSTRUCTION, FIRE RATED, 1–1/2 HR RATING.			
	EH PRICE MODEL 520 LOUVERED SUPPLY GRILLE	_	LOUVERED FACE SUPPLY GRILLE, STEEL CONSTRUCTION, 45° DEFLECTION, 3/4" BLADE SPACING, FOR SURFACE MOUNTING, FRONT BLADES PARALLEL TO LONG DIMENSION C/W OPPOSED BLADE DAMPER, SIZE AS INDICATED ON DRAWING.			
	EH PRICE MODEL 80 EGG CRATE GRILLE	_	1/2"x1/2"x1/2" ALUMINUM GRID CORE FOR DUCT MOUNTING. SIZE AS INDICATED ON DRAWINGS.			
NOTES:						

. SIZE ALL GRILLES, DIFFUSERS, ETC. AS PER MECHANICAL DRAWINGS. 2. CONFIRM ALL FINISHES WITH ARCHITECT/INTERIOR DESIGNER.

	ELECTRIC HEATER SCHEDULE							
TAG	MANU.	MODEL	kW	TYPE	V/PH/HZ	COLOUR	WEIGHT (LBS)	REMARKS
FFH-1 FFH-2 FFH-3 FFH-4	OUELLET	OAC02000-T	3.00	SURFACE MOUNTED FORCE FLOW HEATER	240/1/60	-	24.0	SURFACE MOUNTED FORCE FLOW HEATER C/W INTEGRAL TAMPERPROOF THERMOSTAT. FINISH TO BE CONFIRMED BY ARCHITECT/CLIENT.
BBH-1 BBH-2	OUELLET	OFM0752	0.75	SURFACE MOUNTED BASEBOARD HEATER	120/1/60	-	7.3	SURFACE MOUNTED BASEBOARD HEATER C/W INTEGRAL TAMPERPROOF THERMOSTAT. FINISH TO BE CONFIRMED BY ARCHITECT/CLIENT.
				AND INSTALLED BY D	IV.26.			



Giallonardo — Engineering Inc. 220-4550 Highway 7 Woodbridge, ON L4L 4Y7 (905) 265-1052 i nfo@gi al I onardoeng.com www.gi al I onardoeng.com

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	REVISIONS	DATE	Е

PROJECT:

GROUND FLOOR WASHROOM RENOVATION

PORT PERRY HIGHSCHOOL

160 ROSA STREET PORT PERRY, ON, L9L 1L7 DURHAM DISTRICT SCHOOL BOARD

DRAWING:

MECHANICAL SCHEDULES

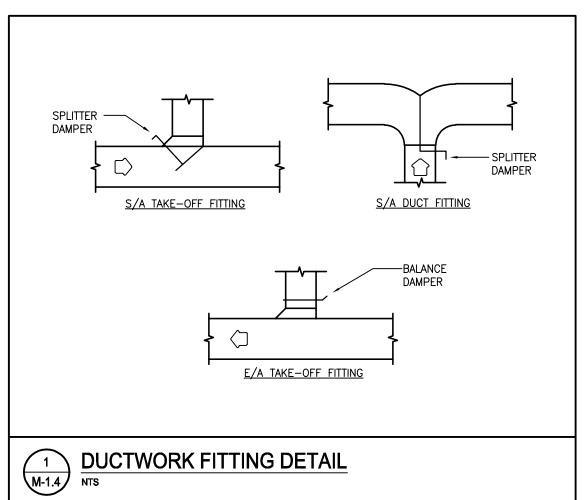


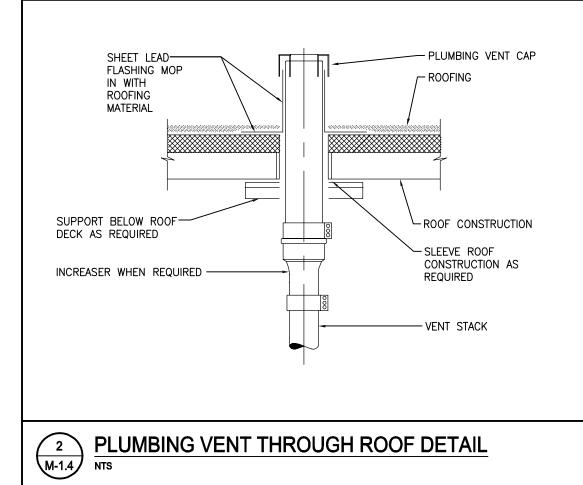
BARRY BRYAN ASSOCIATES Architects Engineers Project Managers 250 Water Street

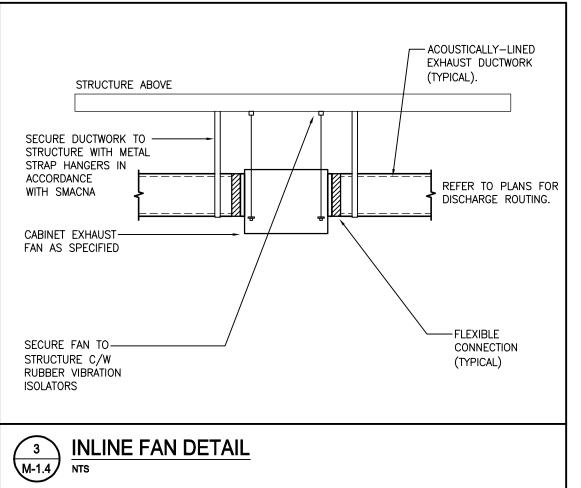
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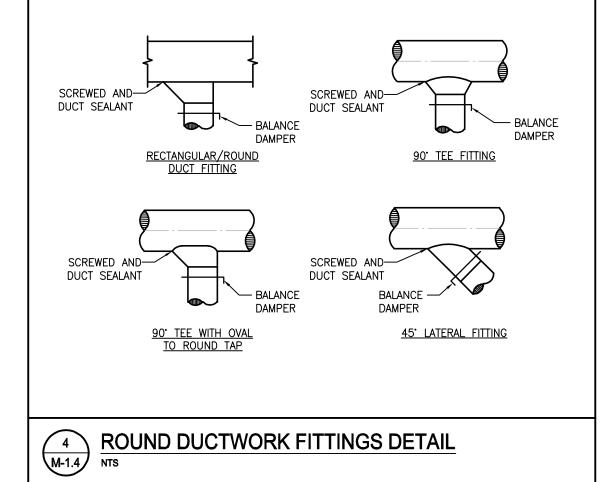
Suite 201 Whitby, Ontario L1N 0G5 Tel: (905) 666-5252 Fax: (905) 666-5256 e-mail: bba@bba-archeng.com

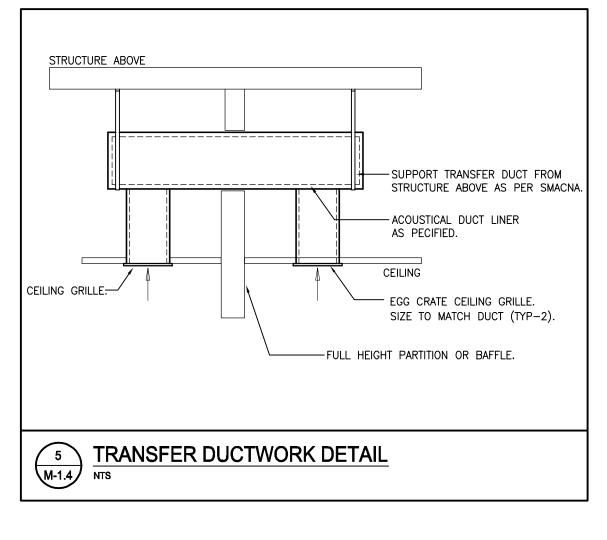
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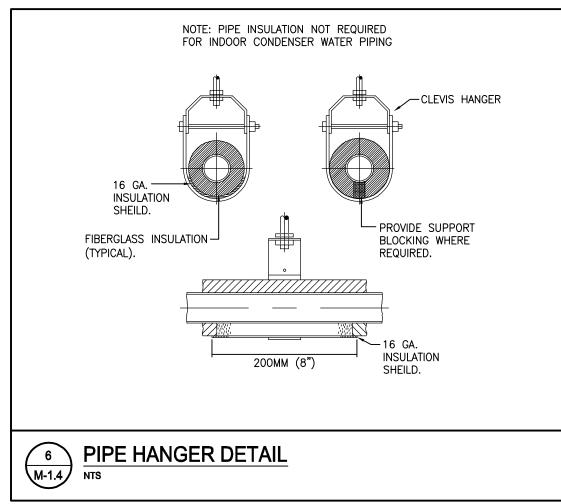














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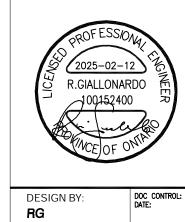
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DRAWING:

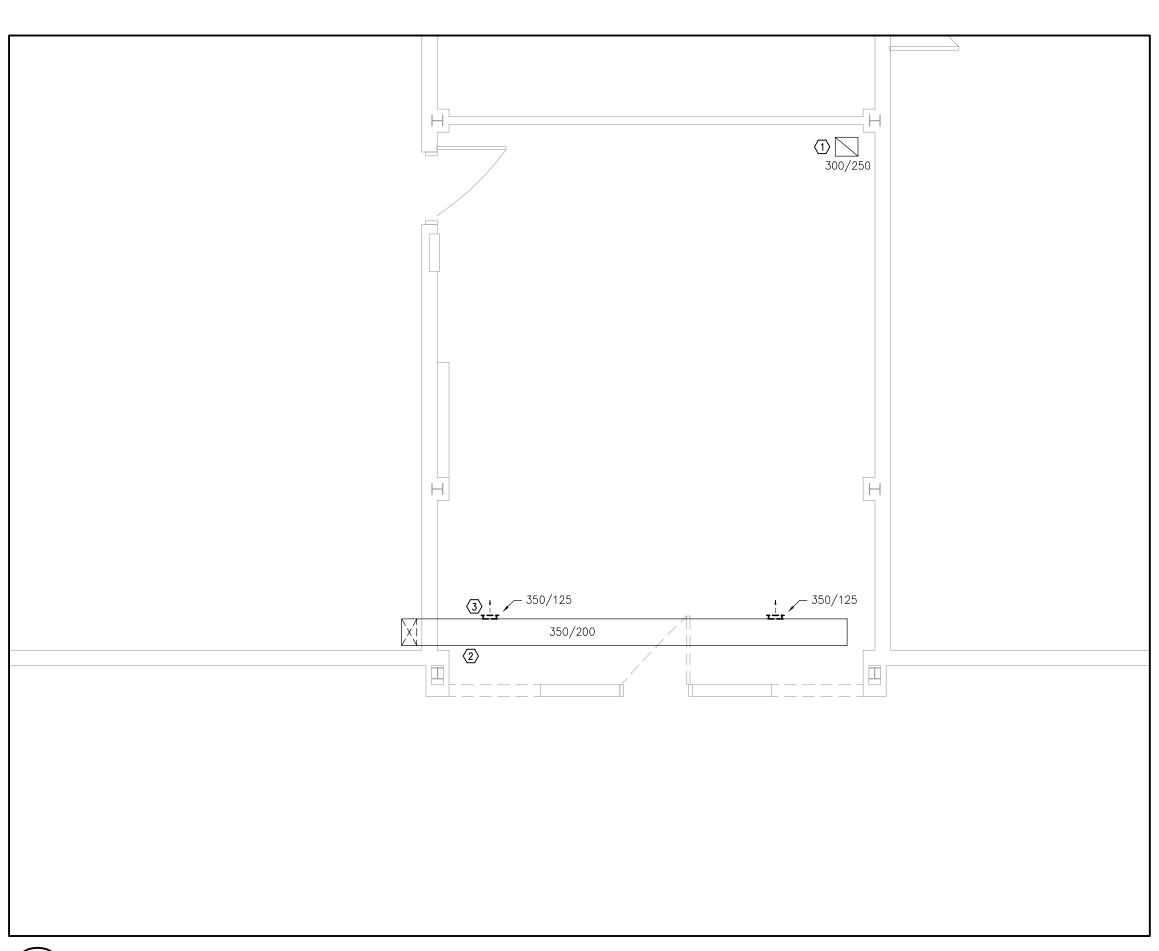
MECHANICAL DETAILS





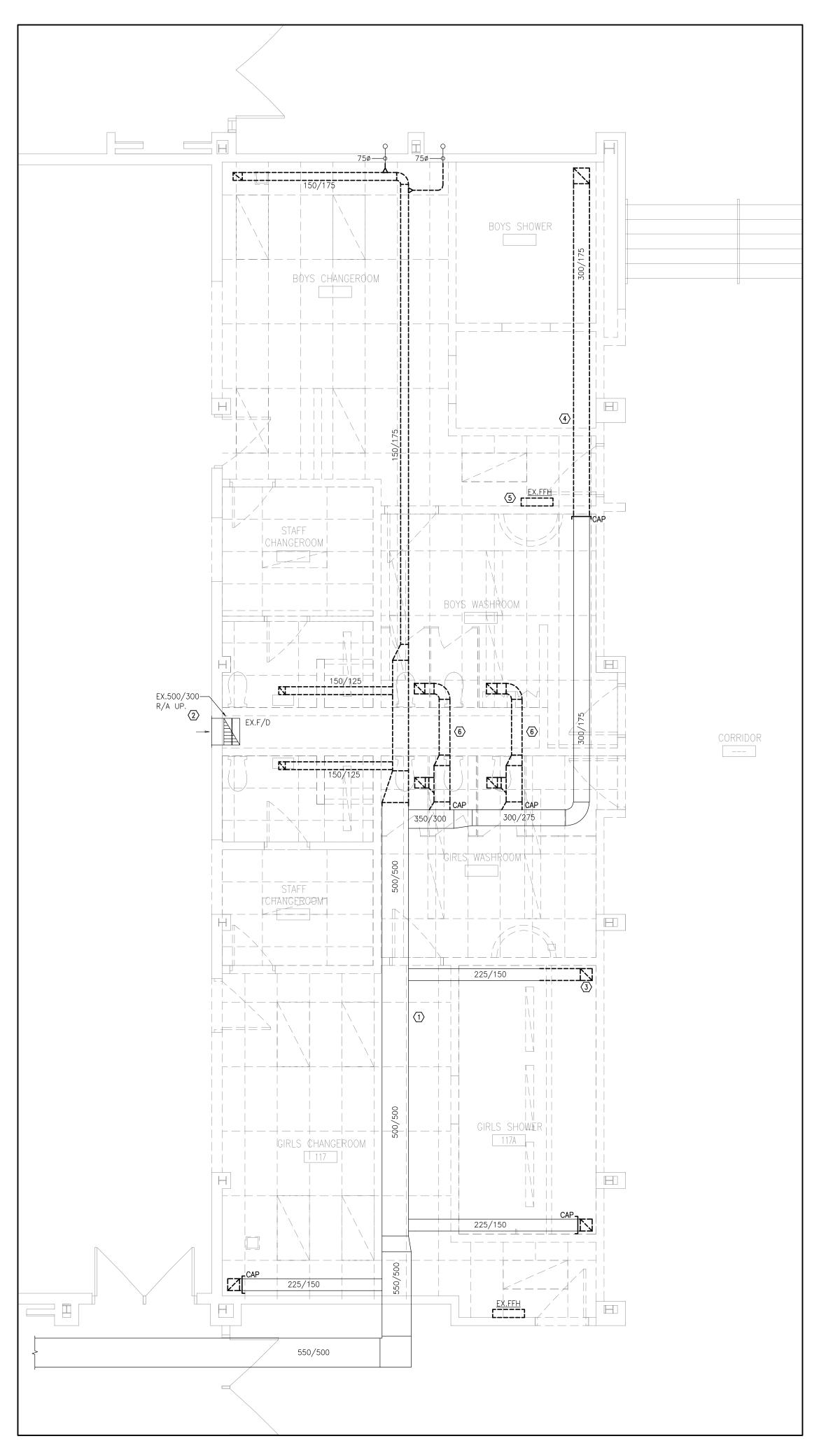
BARRY BRYAN ASSOCIATES Architects Engineer Project M 250 Water Suite 201 Whitby, Or L1N 0G5

ots ers	DRAWN BY: GG	% CC
Managers	CHECKED BY:	INITIA
er Street	JH	
Ontario	DATE: SEPTEMBER 202	3
5) 666-5252 5) 666-5256	SCALE: AS NOTED	



PART GROUND FLOOR PLAN - HVAC DEMOLITION $\begin{array}{c}
1 \\
M-2.1
\end{array}
 \begin{array}{c}
PA \\
1:50
\end{array}$

HVAC NOTES 1 EXISTING E/A GRILLE TO REMAIN. 2 EXISTING S/A DUCTWORK TO REMAIN (TYPICAL). (3) EXISTING S/A GRILLE TO BE REMOVED AND DISPOSED OF



HVAC NOTES

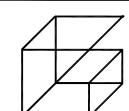
- 1 EXISTING E/A DUCTWORK IN CEILING SPACE TO REMAIN
- (2) EXISTING GYM RETURN DUCT/GRILLE AT LOW LEVEL AND UP TO FLOOR ABOVE IN PIPE CHASE TO REMAIN.
- 3 EXISTING E/A GRILLE TO BE REMOVED AND DISPOSED OF
- 4 EXISTING E/A DUCTWORK TO BE REMOVED AND DISPOSED OF. CAP WHERE SHOWN (TYPICAL).

TO MAIN WHERE SHOWN. CAP DUCT FLUSH WITH MAIN.

- (5) EXISTING ELECTRIC FORCE FLOW HEATER TO BE REMOVED AND DISPOSED OF (TYP-2).
- 6 EXISTING EXHAUST DUCT BRANCH TO BE REMOVED BACK

GENERAL HVAC NOTES

- . WHERE COMPONENTS ARE TO BE REUSED, THE CONTRACTOR SHALL CLEAN AND TEST THE COMPONENT TO ENSURE PROPER OPERATION. THE CONSULTANT SHALL BE NOTIFIED IN THE EVENT THERE IS A DEFICIENCY WITH THE COMPONENT.
- 2. PERFORM DEMOLITION WORK SO AS TO CAUSE MINIMAL DISTURBANCE TO OWNER AND/OR ADJACENT AREAS. MINIMIZE DUST AND NOISE AND PROVIDE TEMPORARY AIR FILTERS ON AIR HANDLING SYSTEMS AFFECT BY THE AREA OF WORK. ALL COSTS ASSOCIATED WITH DAMAGES AS A RESULT OF THE MECHANICAL DEMOLITION SHALL BE COVERED BY DIV.23. MAINTAIN SAFETY STANDARDS AND PROVIDE ADEQUATE SIGNAGE FOR BOTH WORKERS AND OCCUPANTS.
- 3. THE MECHANICAL DRAWINGS DISPLAY A GENERAL DESIGN AND INSTALLATION. THEREFORE, IF REQUIRED, THE CONTRACTOR SHALL OBTAIN CLARIFICATION FROM THE CONSULTANT PRIOR TO INSTALLATION.
- 4. 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.



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2	ISSUED FOR TENDER	FEB. 12 2025	G.G.
NO.	REVISIONS	DATE	BY

PROJECT:

GROUND FLOOR WASHROOM RENOVATION

PORT PERRY HIGHSCHOOL

160 ROSA STREET PORT PERRY, ON, L9L 1L7 DURHAM DISTRICT SCHOOL BOARD

DRAWING:

GROUND FLOOR PLAN - HVAC DEMOLITION





% COMPLETE:

ASSOCIATES Architects Engineers Project Managers

RG DRAWN BY: CHECKED BY: 250 Water Street Suite 201

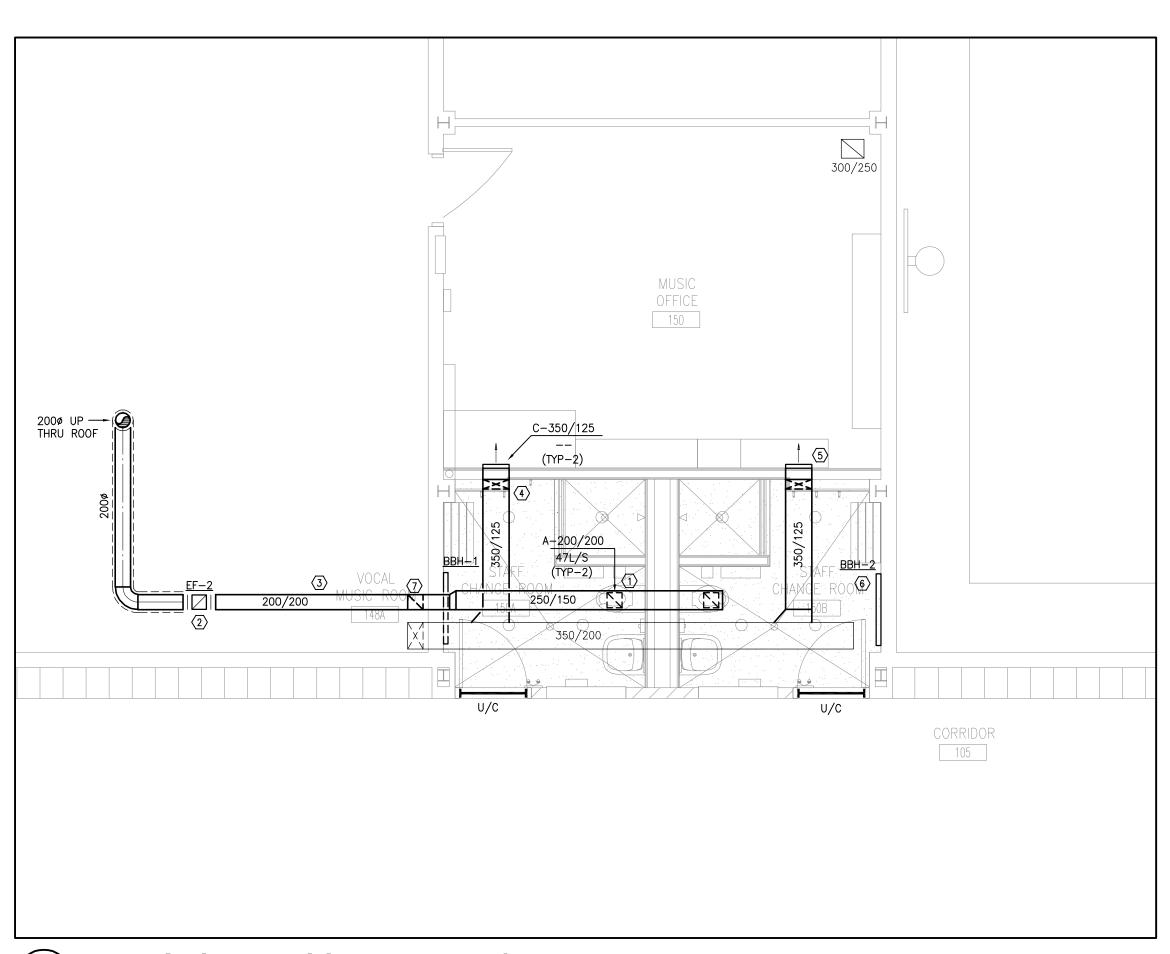
DESIGN BY:

Whitby, Ontario L1N 0G5 Tel: (905) 666-5252 Fax: (905) 666-5256 e-mail: bba@bba-archeng.com

SEPTEMBER 2023 AS NOTED

23-165 M-2.1

PART GROUND FLOOR PLAN - HVAC DEMOLITION 2 M-2.1



M-2.2 1:50

PART GROUND FLOOR PLAN - HVAC NEW

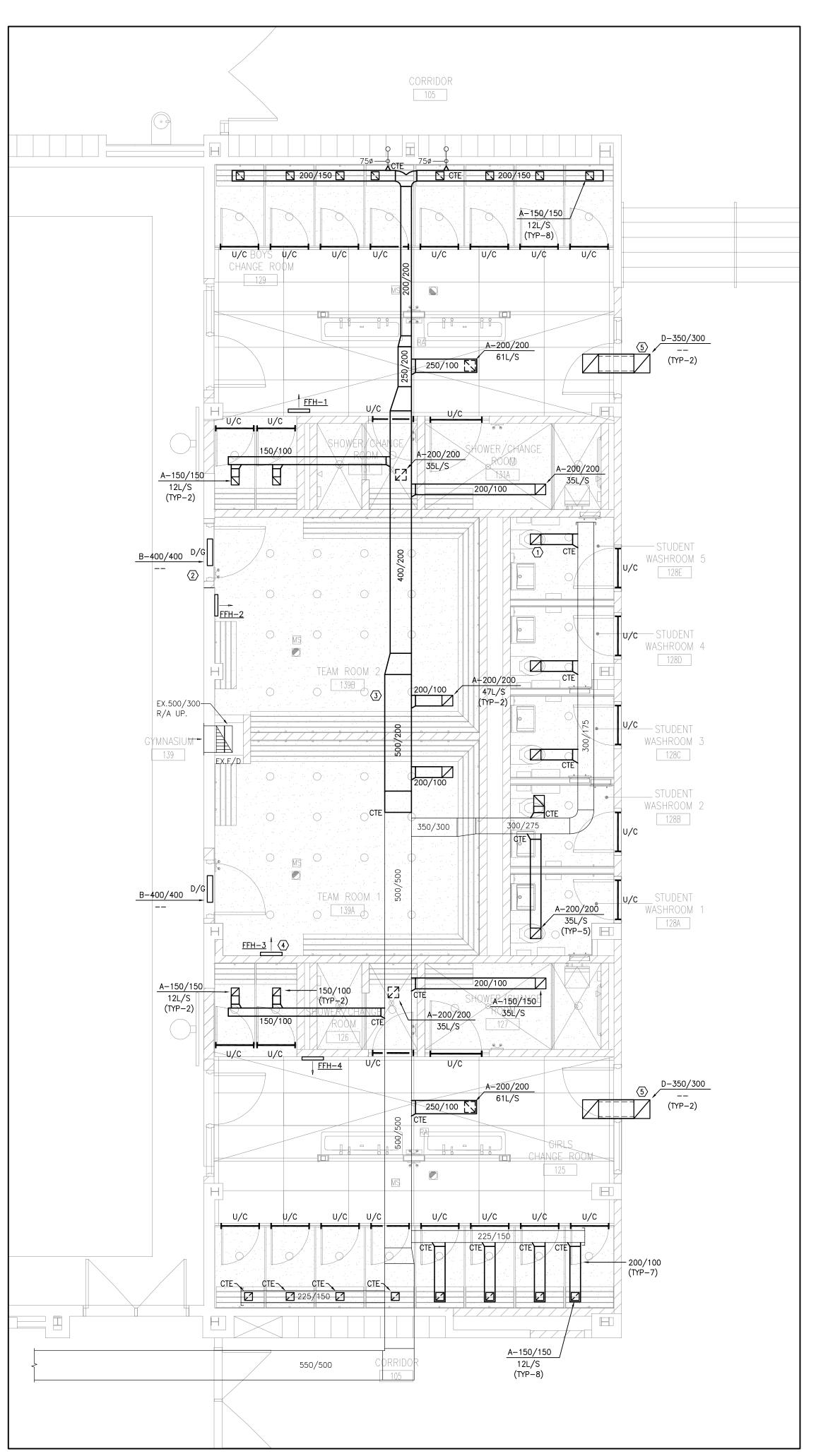
HVAC NOTES 1 PROVIDE NEW SURFACE-MOUNTED E/A GRILLE AS SPECIFIED (TYPICAL). 2 PROVIDE NEW EXHAUST FAN IN CEILING SPACE AS SHOWN. TERMINATE ON ROOF WITH GOOSENECK C/W BACKDRAFT DAMPER AND BIRDSCREEN. MAINTAIN MINIMUM 10 FOOT CLEARANCE TO ALL FRESH AIR INTAKES. 3 PROVIDE NEW E/A DUCTWORK IN CEILING SPACE (TYPICAL). PROVIDE NEW S/A DUCTWORK AS SHOWN. DROP DUCT DOWN TO BELOW CONCRETE BEAM FOR SUPPLY DIFFUSER INSTALLATION (TYPICAL). 5 PROVIDE NEW S/A GRILLE AS SPECIFIED (TYP-2). 6 PROVIDE NEW ELECTRIC BASEBOARD HEATER AS SPECIFIED C/W TAMPERPROOF INTEGRAL THERMOSTAT SUPPLIED BY DÍV.23 AND INSTALLED BY DIV.26. (TYP-2).

(7) DROP NEW EXHAUST DUCTWORK DOWN THRU HIGH T-BAR

DUCT/VENT PIPING ENCLOSURE.

CEILING IN MUSIC ROOM TO LEVEL OF LOWER CEILING OF

WASHROOM. REFER TO ARCHITECTURAL DRAWINGS FOR NEW



HVAC NOTES

1 PROVIDE NEW SURFACE-MOUNTED E/A GRILLE AS SPECIFIED (TYPICAL).

TO EXISTING WHERE SHOWN (TYPICAL).

PROVIDE NEW DOOR GRILLE AS SPECIFIED. COORDINATE INSTALLATION OF DOOR GRILLES WITH GENERAL CONTRACTOR

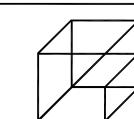
(3) PROVIDE NEW E/A DUCTWORK IN CEILING SPACE CONNECT

4 PROVIDE NEW ELECTRIC FORCE FLOW HEATER AS SPECIFIED

(5) PROVIDE NEW ACOUSTICALLY LINED TRANSFER DUCTWORK C/W CEILING GRILLES ON BOTH SIDES. REFER TO DETAILS.

GENERAL HVAC NOTES

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

GROUND FLOOR WASHROOM RENOVATION

PORT PERRY HIGHSCHOOL

160 ROSA STREET PORT PERRY, ON, L9L 1L7 DURHAM DISTRICT SCHOOL BOARD

DRAWING:

GROUND FLOOR PLAN - HVAC NEW





% COMPLETE:

BARRY BRYAN ASSOCIATES Architects Engineers Project Managers

250 Water Street Suite 201 Whitby, Ontario L1N 0G5

CHECKED BY: JΗ SEPTEMBER 2023 AS NOTED

DESIGN BY:

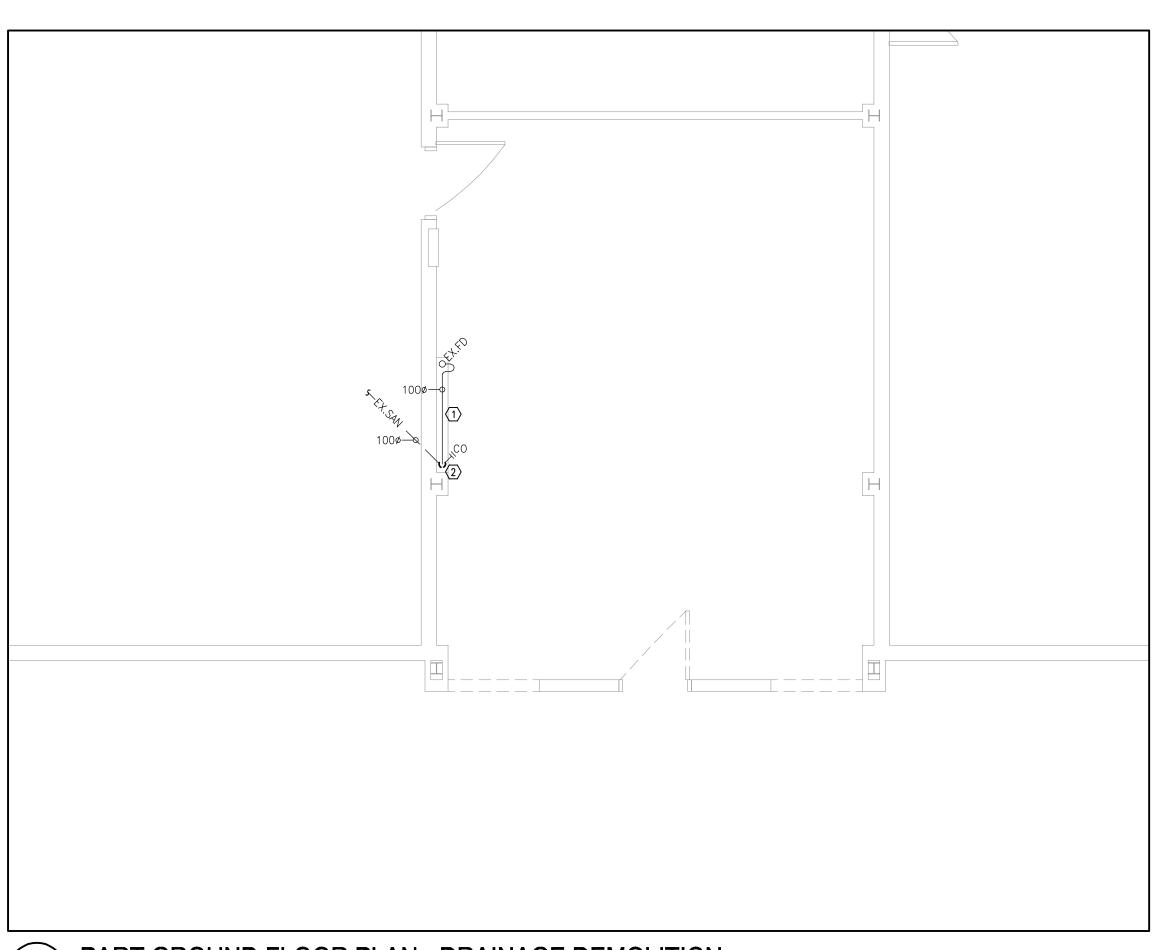
DRAWN BY:

RG

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

23-165 M-2.2

PART GROUND FLOOR PLAN - HVAC NEW M-2.2

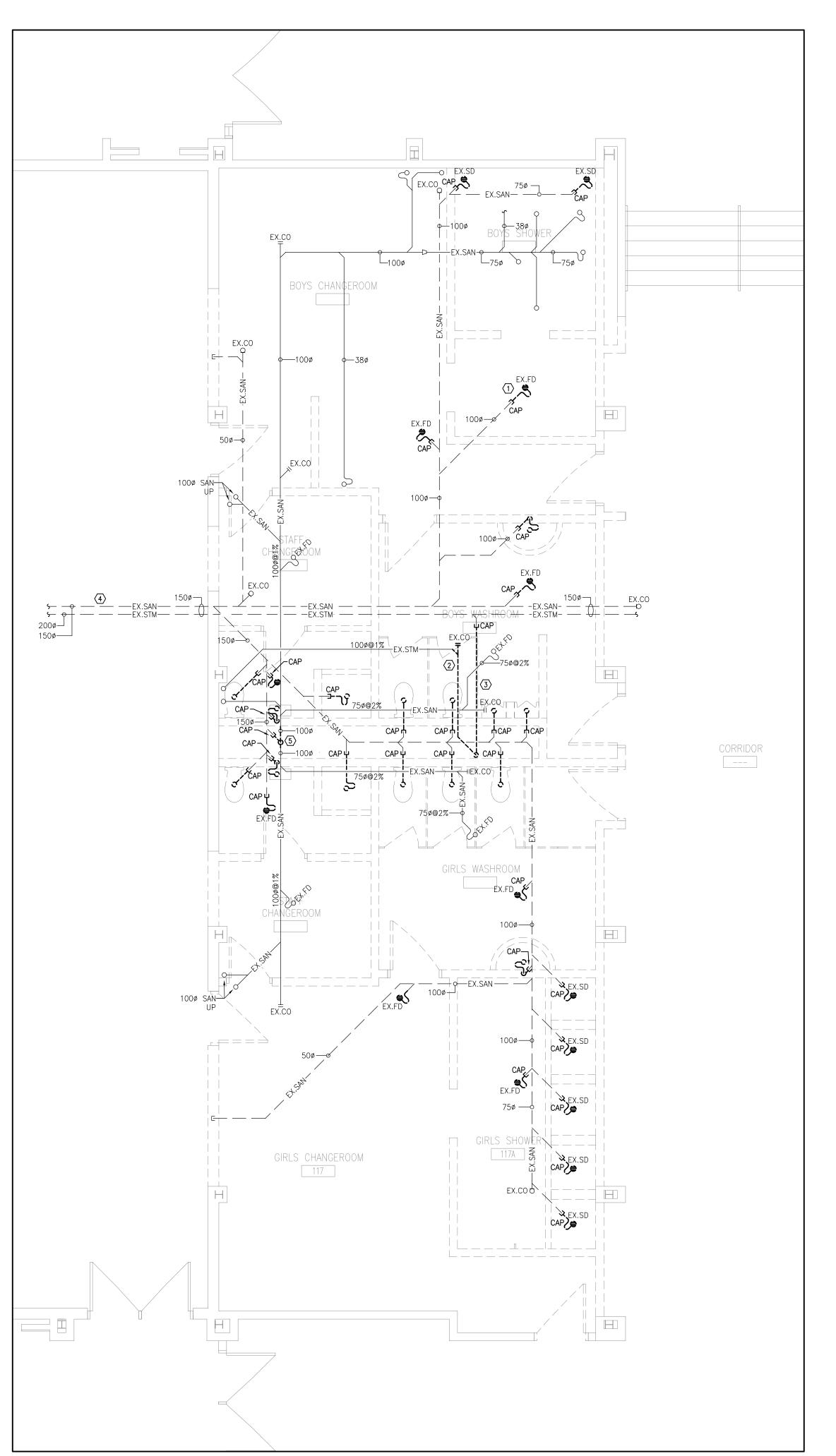


PART GROUND FLOOR PLAN - DRAINAGE DEMOLITION 1 M-3.1 PA 1:50

DRAINAGE DRAWING NOTES

1 APPROXIMATE LOCATION OF EXISTING UNDERGROUND SANITARY. CONTRACTOR TO VERIFY EXACT LOCATION AND DIRECTION OF FLOW PRIOR TO START OF CONSTRUCTION. CONTRACTOR SHALL CARRY SERVICES FOR SCOPING OF EXISTING UNDERGROUND DRAINAGE PIPING IN THEIR BASE BID (TYPICAL).

2 EXISTING 100¢ SANITARY RISER SERVING FLOOR DRAIN ABOVE TO REMAIN. EXISTING BASE OF RISER TO BE REMOVED TO FACILITATE EXTENSION OF EXISTING BURIED SANITARY DRAINAGE PIPING.



DRAINAGE DRAWING NOTES

(1) EXISTING FLOOR DRAIN TO BE REMOVED AND DISPOSED OF. CAP EXISTING PIPING WHERE SHOWN (TYPICAL).

(2) EXISTING ABOVE GROUND STORM DRAINAGE PIPING TO BE REMOVED AND DISPOSED OF. PREPARE FOR CONNECTION OF NEW STORM DRAINAGE PIPING.

(3) EXISTING UNDERGROUND STORM DRAINAGE PIPING TO BE REMOVED WHERE SHOWN. CAP AT MAIN.

4 APPROXIMATE LOCATION OF EXISTING UNDERGROUND SANITARY AND STORM DRAINAGE PIPING. CONTRACTOR TO VERIFY EXACT LOCATION AND DIRECTION OF FLOW PRIOR TO START OF CONSTRUCTION. CONTRACTOR SHALL CARRY SERVICES FOR SCOPING OF EXISTING UNDERGROUND DRAINAGE PIPING IN THEIR BASE BID (TYPICAL).

(5) EXISTING 1000 SANITARY RISER SERVING WASHROOM ABOVE TO BE REMOVED AND DISPOSED OF. PREPARE EXISTING PIPING FOR RECONNECTION.

GENERAL NOTES

ALL EXISTING SERVICES SHOWN ARE A GENERAL REPRESENTATION ONLY OF ACTUAL ONSITE CONDITIONS. CONTRACTOR TO VERIFY EXACT LOCATION OF EXISTING SERVICES PRIOR TO CONSTRUCTION AND REPORT ALL DISCREPANCIES TO ENGINEER IN A TIMELY MANNER.

- PROVIDE VENTING SYSTEMS IN ACCORDANCE WITH PART 7 OF THE NATIONAL PLUMBING CODE.
- PROVIDE ADEQUATE ACCESS FOR ALL EQUIPMENT, VALVES, ETC. LOCATED BEHIND WALLS AND CEILINGS. REFER TO SPECIFICATIONS.
- PROVIDE TRAP PRIMING AND ASSOCIATED EQUIPMENT AS SPECIFIED AND/OR REQUIRED. ENSURE THAT TRAP PRIMER MECHANISM IS INSTALLED IN AN ACCESSIBLE LOCATION.
- PROVIDE APPROPRIATE MEANS FOR FIRESTOPPING FOR ALL PENETRATIONS THROUGH FIRE-RATED ASSEMBLIES.
- 6. PATCH ALL FLOOR/WALL PENETRATIONS FROM REMOVED PIPING/EQUIPMENT TO BASE BUILDING STANDARDS.

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PROJECT:

GROUND FLOOR WASHROOM RENOVATION

PORT PERRY HIGHSCHOOL

160 ROSA STREET PORT PERRY, ON, L9L 1L7 DURHAM DISTRICT SCHOOL BOARD

DRAWING:

GROUND FLOOR PLAN - DRAINAGE DEMOLITION





% COMPLETE:

BARRY BRYAN ASSOCIATES Architects Engineers Project Managers

DRAWN BY: CHECKED BY: 250 Water Street SEPTEMBER 2023

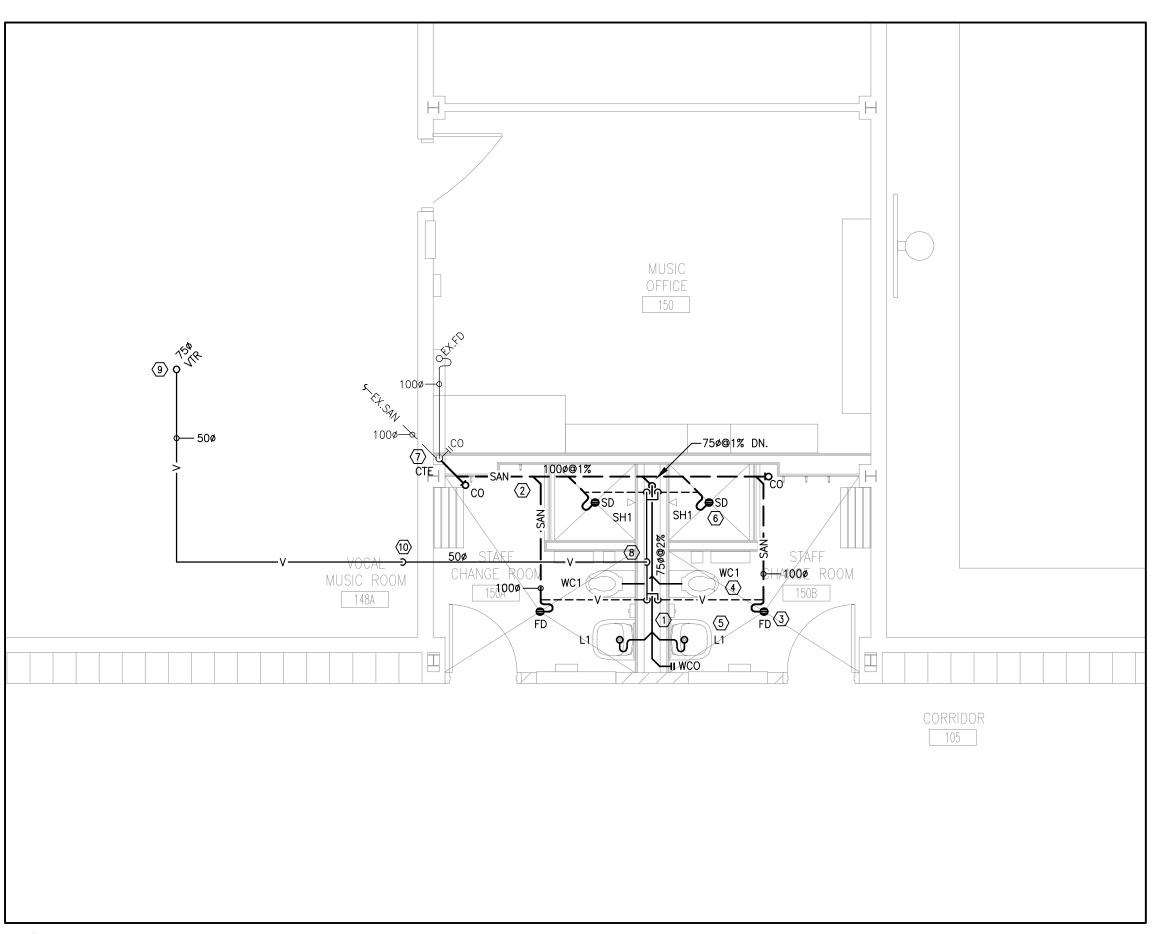
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AS NOTED

DESIGN BY: **RG**

23-165 M-3.1





PART GROUND FLOOR PLAN - DRAINAGE NEW M-3.2 1:50

DRAINAGE DRAWING NOTES

(1) PROVIDE NEW SANITARY DRAINAGE PIPING IN WALL CHASE

2 PROVIDE NEW BURIED SANITARY PIPING AS SHOWN

(3) PROVIDE NEW FLOOR DRAIN AS SPECIFIED. PROVIDE TRAP PRIMING AS REQUIRED TO SERVE ALL NEW FLOOR DRAINS. CONTRACTOR TO CONFIRM EXACT LOCATION OF TRAP SEAL PRIMING ON SITE (TYPICAL).

 $\overline{\langle 4 \rangle}$ PROVIDE NEW WATER CLOSET AS SPECIFIED (TYPICAL).

(5) PROVIDE NEW LAVATORY AS SPECIFIED (TYPICAL).

(6) PROVIDE NEW SHOWER DRAIN AS SPECIFIED (TYPICAL).

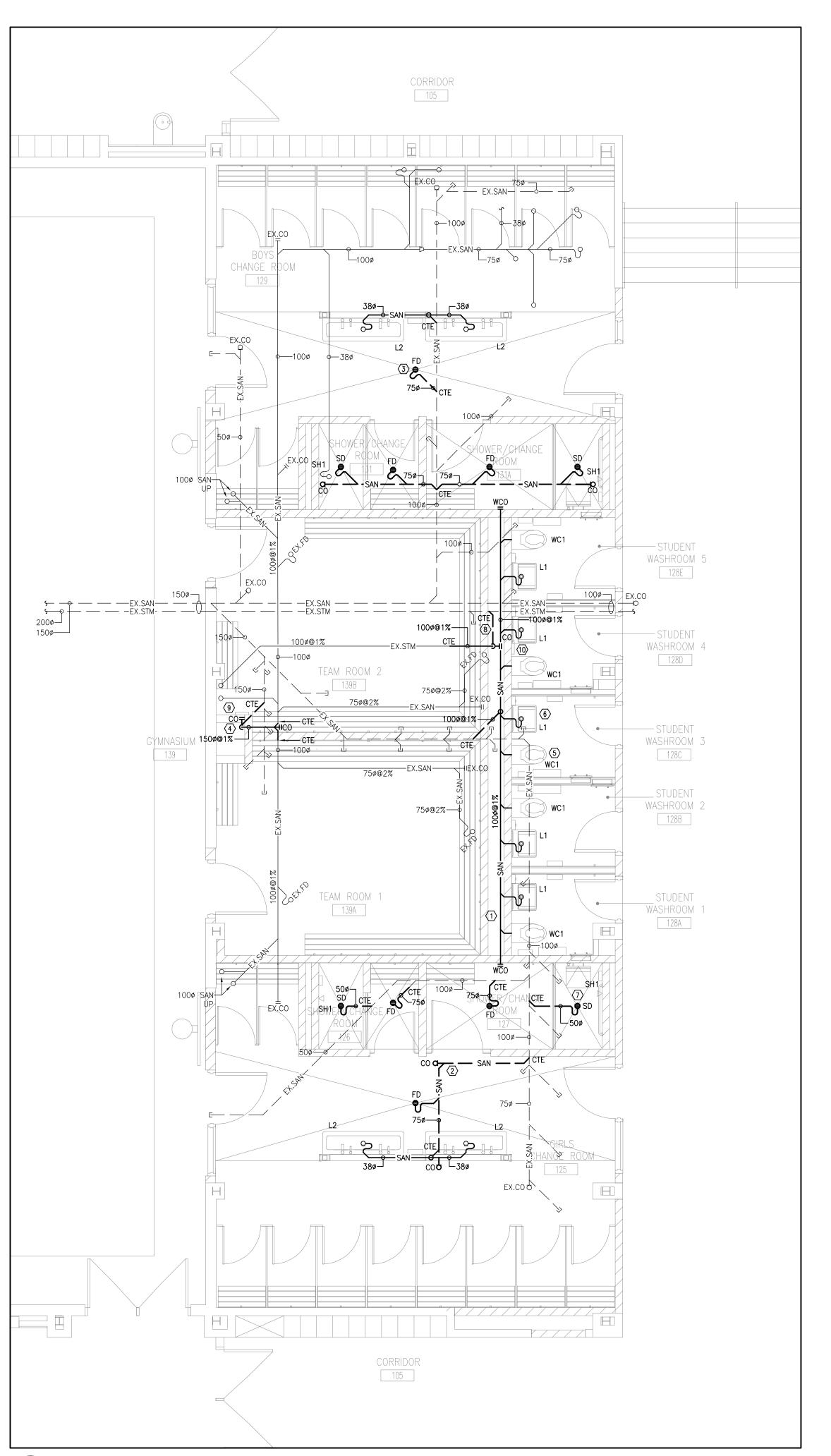
 $\overline{\mbox{\scriptsize 7}}$ connect to existing sanitary drainage piping at base of riser.

(8) DISTRIBUTE 500 VENT PIPING TO PLUMBING FIXTURES IN ACCORDANCE WITH THE ONTARIO BUILDING CODE.

(9) NEW VENT PIPING INSTALLATION IN CEILING SPACE. PROVIDE NEW 750 VTR WHERE INDICATED. MAINTAIN MINIMUM 10 FOOT CLEARANCE TO ALL FRESH AIR INTAKES.

(10) DROP NEW VENT PIPING DOWN THRU HIGH T-BAR CEILING IN MUSIC ROOM TO LEVEL OF LOWER CEILING OF
WASHROOM. REFER TO ARCHITECTURAL DRAWINGS FOR NEW

DUCT/VENT PIPING ENCLOSURE.



DRAINAGE DRAWING NOTES

1 PROVIDE NEW SANITARY DRAINAGE PIPING IN WALL CHASE

2 PROVIDE NEW BURIED SANITARY PIPING AS SHOWN TYPICAL).

(3) PROVIDE NEW FLOOR DRAIN AS SPECIFIED. PROVIDE TRAP PRIMING AS REQUIRED TO SERVE ALL NEW FLOOR DRAINS.

CONTRACTOR TO CONFIRM EXACT LOCATION OF TRAP SEAL PRIMING ON SITE (TYPICAL).

4 PROVIDE NEW 1500 SANITARY STACK IN WALL CHASE. CONNECT TO EXISTING IN CEILING SPACE AND BURIED MAIN WHERE SHOWN. PROVIDE CLEANOUT AT BASE OF STACK.

(5) PROVIDE NEW WATER CLOSET AS SPECIFIED (TYPICAL).

(6) PROVIDE NEW LAVATORY AS SPECIFIED (TYPICAL).

(7) PROVIDE NEW SHOWER DRAIN AS SPECIFIED (TYPICAL).

8 PROVIDE NEW 1000 STORM STACK IN WALL CHASE.
CONNECT TO EXISTING IN CEILING SPACE AND BURIED MAIN WHERE SHOWN. PROVIDE CLEANOUT AT BASE OF STACK.

9 PROVIDE NEW FIRE RATED WALL ACCESS PANEL AT LOW LEVEL TO PROVIDE ADEQUATE CLEANOUT ACCESS.

COORDINATE WITH ARCHITECTURAL DRAWINGS FOR SIZE AND EXACT LOCATION.

10 PROVIDE NEW WALL ACCESS PANEL AT LOW LEVEL TO PROVIDE ADEQUATE CLEANOUT ACCESS. COORDINATE WITH ARCHITECTURAL DRAWINGS FOR SIZE AND EXACT LOCATION.

1) DISTRIBUTE VENT PIPING TO PLUMBING FIXTURES IN ACCORDANCE WITH THE ONTARIO BUILDING CODE.

GENERAL NOTES

ALL EXISTING SERVICES SHOWN ARE A GENERAL REPRESENTATION ONLY OF ACTUAL ONSITE CONDITIONS. CONTRACTOR TO VERIFY EXACT LOCATION OF EXISTING SERVICES PRIOR TO CONSTRUCTION AND REPORT ALL DISCREPANCIES TO ENGINEER IN A TIMELY MANNER.

PROVIDE VENTING SYSTEMS IN ACCORDANCE WITH PART 7 OF THE NATIONAL PLUMBING CODE.

PROVIDE ADEQUATE ACCESS FOR ALL EQUIPMENT, VALVES, ETC. LOCATED BEHIND WALLS AND CEILINGS. REFER TO SPECIFICATIONS.

. PROVIDE TRAP PRIMING AND ASSOCIATED EQUIPMENT AS SPECIFIED AND/OR REQUIRED. ENSURE THAT TRAP PRIMER MECHANISM IS INSTALLED IN AN ACCESSIBLE LOCATION.

PROVIDE APPROPRIATE MEANS FOR FIRESTOPPING FOR ALL PENETRATIONS THROUGH FIRE-RATED ASSEMBLIES.

6. PATCH ALL FLOOR/WALL PENETRATIONS FROM REMOVED PIPING/EQUIPMENT TO BASE BUILDING STANDARDS.

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PROJECT:

GROUND FLOOR WASHROOM RENOVATION

PORT PERRY HIGHSCHOOL

160 ROSA STREET PORT PERRY, ON, L9L 1L7 DURHAM DISTRICT SCHOOL BOARD

DRAWING:

GROUND FLOOR PLAN - DRAINAGE NEW





% COMPLETE:

BARRY BRYAN ASSOCIATES Architects Engineers Project Managers

Suite 201

DRAWN BY: CHECKED BY: JH 250 Water Street SEPTEMBER 2023

DESIGN BY:

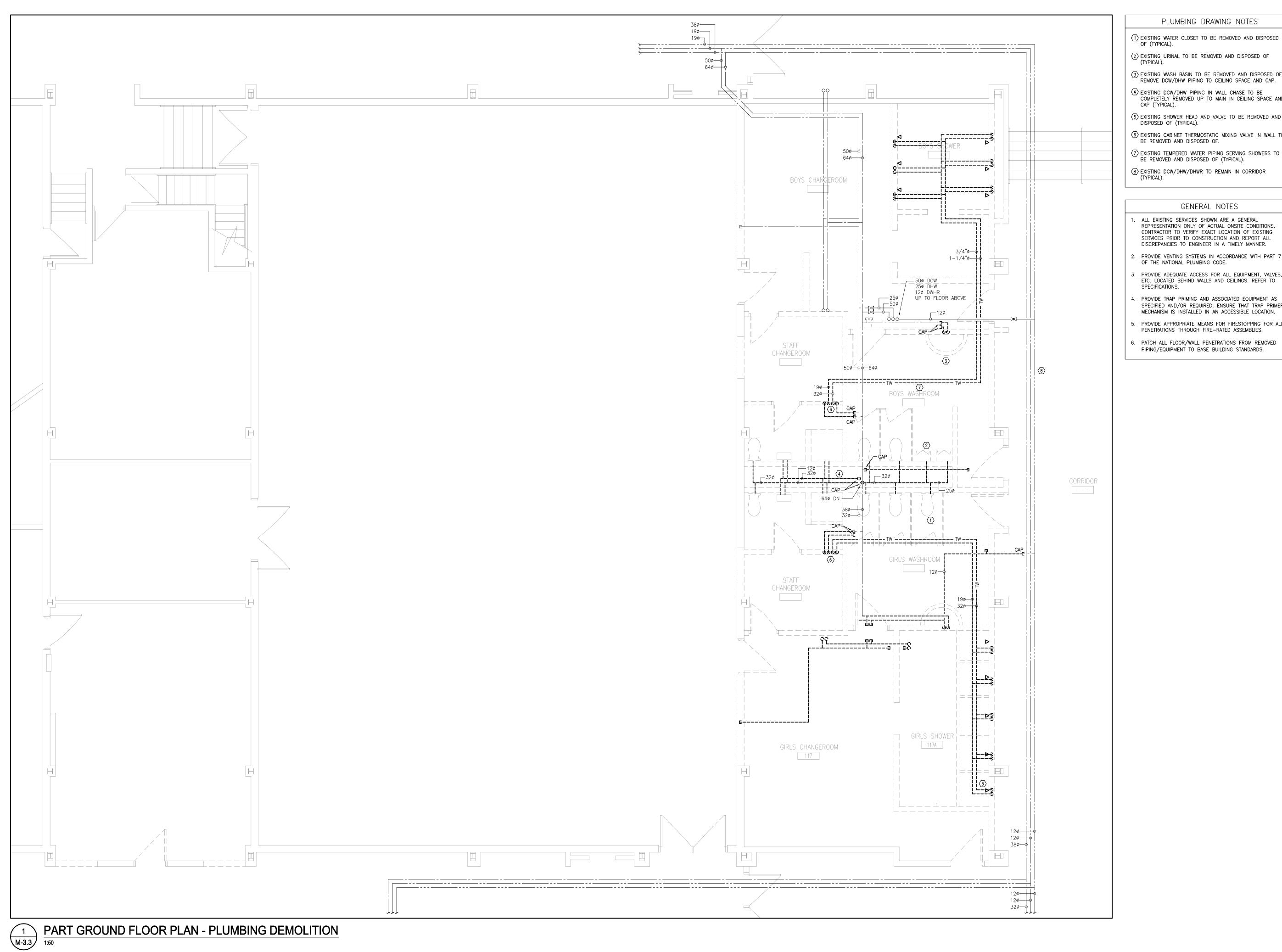
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AS NOTED

23-165 M-3.2

PART GROUND FLOOR PLAN - DRAINAGE NEW 2 M-3.2



PLUMBING DRAWING NOTES

OF (TYPICAL).

4 EXISTING DCW/DHW PIPING IN WALL CHASE TO BE

(5) EXISTING SHOWER HEAD AND VALVE TO BE REMOVED AND DISPOSED OF (TYPICAL).

BE REMOVED AND DISPOSED OF.

(7) EXISTING TEMPERED WATER PIPING SERVING SHOWERS TO

ALL EXISTING SERVICES SHOWN ARE A GENERAL REPRESENTATION ONLY OF ACTUAL ONSITE CONDITIONS.

- ETC. LOCATED BEHIND WALLS AND CEILINGS. REFER TO SPECIFICATIONS.
- MECHANISM IS INSTALLED IN AN ACCESSIBLE LOCATION.
- PENETRATIONS THROUGH FIRE-RATED ASSEMBLIES.
- 6. PATCH ALL FLOOR/WALL PENETRATIONS FROM REMOVED PIPING/EQUIPMENT TO BASE BUILDING STANDARDS.

1 EXISTING WATER CLOSET TO BE REMOVED AND DISPOSED

(2) EXISTING URINAL TO BE REMOVED AND DISPOSED OF (TYPICAL).

(3) EXISTING WASH BASIN TO BE REMOVED AND DISPOSED OF. REMOVE DCW/DHW PIPING TO CEILING SPACE AND CAP.

COMPLETELY REMOVED UP TO MAIN IN CEILING SPACE AND CAP (TYPICAL).

6 EXISTING CABINET THERMOSTATIC MIXING VALVE IN WALL TO

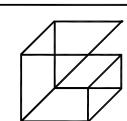
BE REMOVED AND DISPOSED OF (TYPICAL).

(8) EXISTING DCW/DHW/DHWR TO REMAIN IN CORRIDOR

GENERAL NOTES

CONTRACTOR TO VERIFY EXACT LOCATION OF EXISTING SERVICES PRIOR TO CONSTRUCTION AND REPORT ALL DISCREPANCIES TO ENGINEER IN A TIMELY MANNER.

- 2. PROVIDE VENTING SYSTEMS IN ACCORDANCE WITH PART 7 OF THE NATIONAL PLUMBING CODE.
- 3. PROVIDE ADEQUATE ACCESS FOR ALL EQUIPMENT, VALVES,
- SPECIFIED AND/OR REQUIRED. ENSURE THAT TRAP PRIMER
- 5. PROVIDE APPROPRIATE MEANS FOR FIRESTOPPING FOR ALL



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GROUND FLOOR WASHROOM RENOVATION

PORT PERRY HIGHSCHOOL

160 ROSA STREET PORT PERRY, ON, L9L 1L7 DURHAM DISTRICT SCHOOL BOARD

DRAWING:

GROUND FLOOR PLAN - PLUMBING DEMOLITION





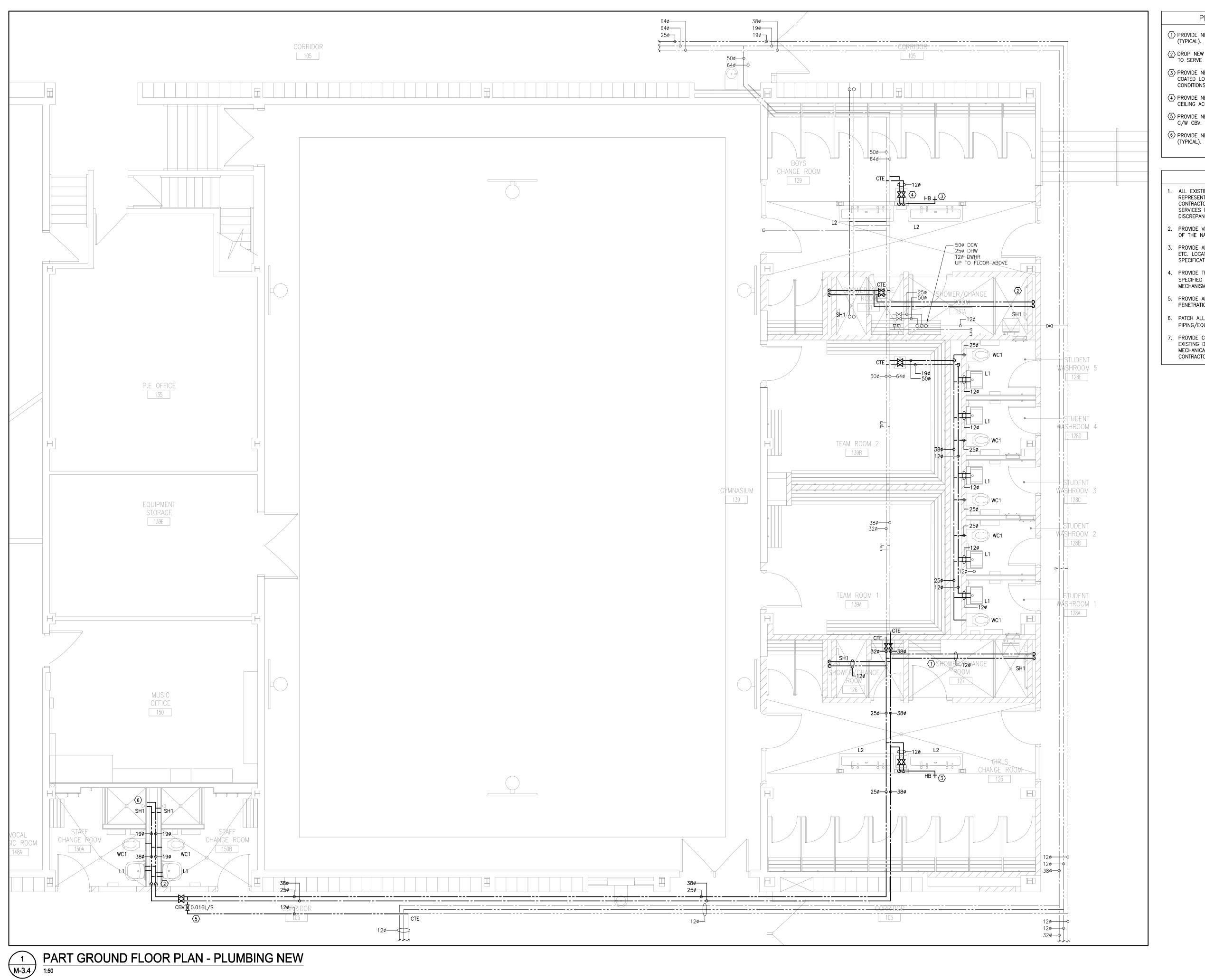
BARRY BRYAN ASSOCIATES Architects Engineers Project Managers

DESIGN BY: % COMPLETE: DRAWN BY: CHECKED BY: 250 Water Street

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DATE: SEPTEMBER 2023 AS NOTED

23-165 M-3.3



PLUMBING DRAWING NOTES

1 PROVIDE NEW DCW/DHW PIPING IN CEILING SPACE

(2) DROP NEW 380 DCW AND 19 DHW DOWN IN PIPE CHASE TO SERVE 2 X LAV, 2X WC AND 2 X SH.

(3) PROVIDE NEW HOSE BIBB IN WALL C/W WHITE POWDER COATED LOCKABLE ACCESS PANEL. MATCH EXISTING CONDITIONS IN SECOND FLOOR WASHROOM.

4 PROVIDE NEW ISOLATION VALVE IN CEILING SPACE C/W CEILING ACCESS PANEL.

5 PROVIDE NEW DHWR PIPING IN CORRIDOR CEILING SPACE C/W CBV. CONNECT TO EXISTING WHERE SHOWN. 6 PROVIDE NEW SHOWER VALVE AND TRIM AS SPECIFIED

GENERAL NOTES

- ALL EXISTING SERVICES SHOWN ARE A GENERAL REPRESENTATION ONLY OF ACTUAL ONSITE CONDITIONS. CONTRACTOR TO VERIFY EXACT LOCATION OF EXISTING SERVICES PRIOR TO CONSTRUCTION AND REPORT ALL DISCREPANCIES TO ENGINEER IN A TIMELY MANNER.
- PROVIDE VENTING SYSTEMS IN ACCORDANCE WITH PART 7 OF THE NATIONAL PLUMBING CODE.
- PROVIDE ADEQUATE ACCESS FOR ALL EQUIPMENT, VALVES, ETC. LOCATED BEHIND WALLS AND CEILINGS. REFER TO SPECIFICATIONS.
- 4. PROVIDE TRAP PRIMING AND ASSOCIATED EQUIPMENT AS SPECIFIED AND/OR REQUIRED. ENSURE THAT TRAP PRIMER MECHANISM IS INSTALLED IN AN ACCESSIBLE LOCATION.
- PROVIDE APPROPRIATE MEANS FOR FIRESTOPPING FOR ALL PENETRATIONS THROUGH FIRE-RATED ASSEMBLIES.
- 6. PATCH ALL FLOOR/WALL PENETRATIONS FROM REMOVED PIPING/EQUIPMENT TO BASE BUILDING STANDARDS.
- . PROVIDE CEILING ACCESS PANELS AS REQUIRED FOR ALL EXISTING DEOMSTIC WATER ISOLATIONS VALVE AS REQUIRED. MECHANICAL TRADES SHALL COORDNIATE WITH GENERAL CONTRACTOR FOR ALL ACCESS PANEL LOCATIONS.

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PROJECT:

GROUND FLOOR WASHROOM RENOVATION

PORT PERRY HIGHSCHOOL

160 ROSA STREET PORT PERRY, ON, L9L 1L7 DURHAM DISTRICT SCHOOL BOARD

DRAWING:

GROUND FLOOR PLAN - PLUMBING NEW





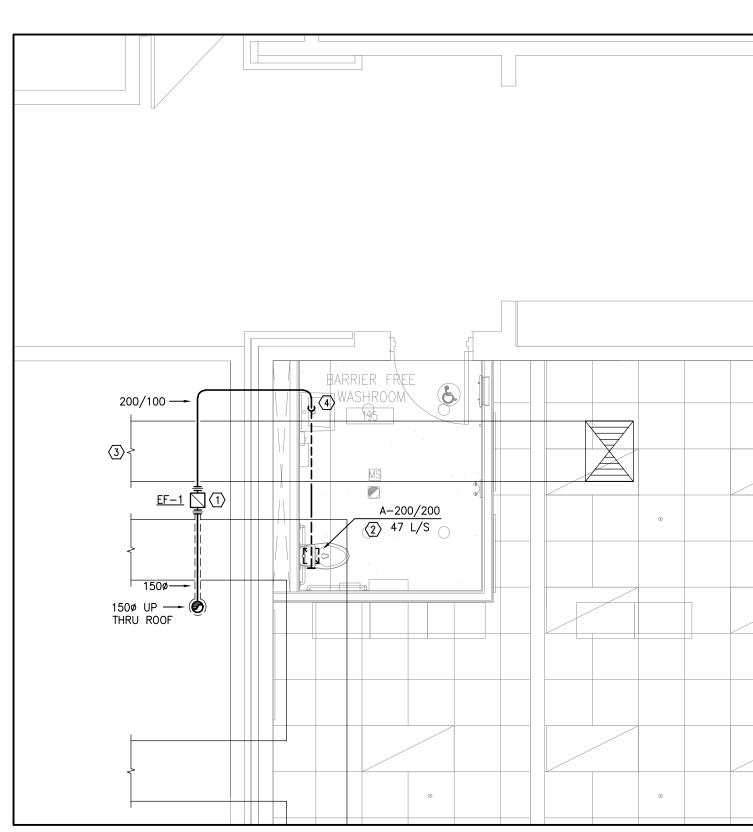
BARRY BRYAN ASSOCIATES Architects Engineers Project Managers

DESIGN BY: % COMPLETE: CHECKED BY: DATE: SEPTEMBER 2023

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AS NOTED

23-165 M-3.4

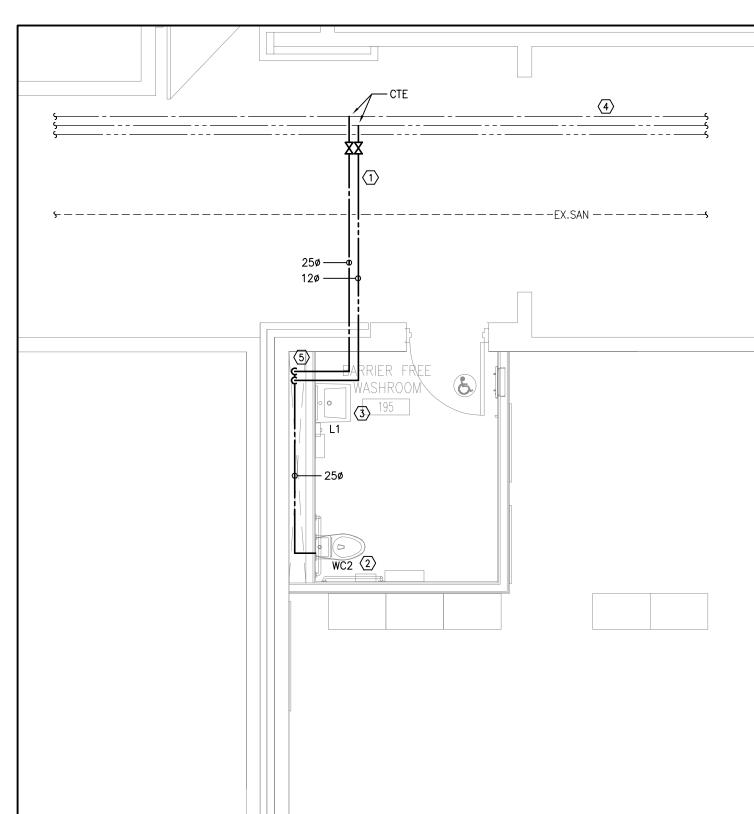


HVAC NOTES 1 PROVIDE NEW EXHAUST FAN IN CEILING SPACE AS SHOWN. TERMINATE ON ROOF WITH GOOSENECK C/W BACKDRAFT

- DAMPER AND BIRDSCREEN. MAINTAIN MINIMUM 10 FOOT CLEARANCE TO ALL FRESH AIR INTAKES.
- $\langle 2 \rangle$ PROVIDE NEW E/A GRILLE AS SPECIFIED.
- 3 EXISTING S/A DUCTWORK TO REMAIN (TYPICAL).
- 4 DROP NEW EXHAUST DUCTWORK DOWN TO BELOW EXISTING DUCTWORK. NEW DUCTWORK SHALL BE RUN IN BULKHEAD, REFER TO ARCHITECTURAL DRAWINGS.

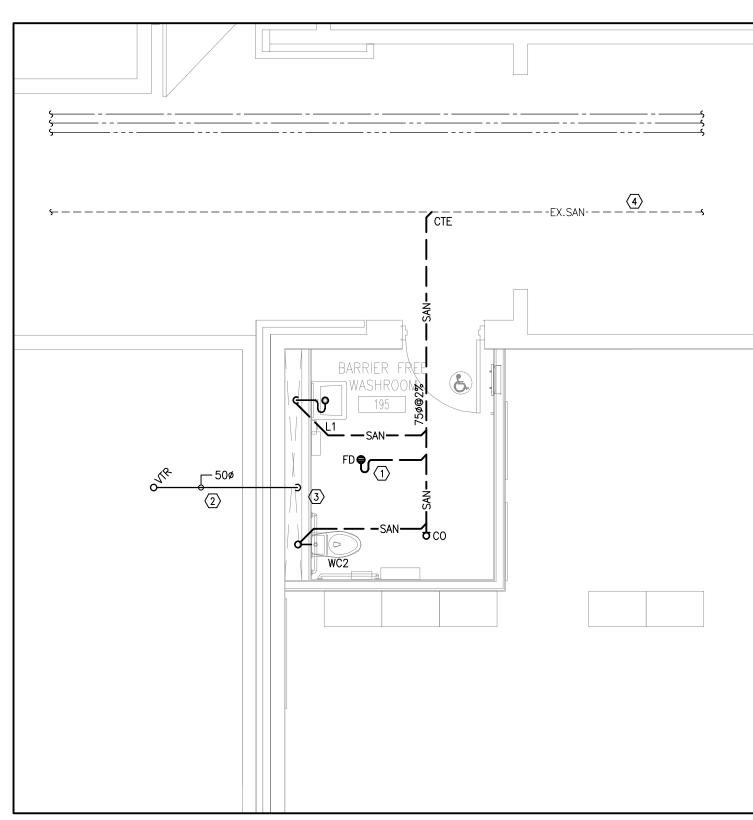
GENERAL HVAC NOTES

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PART GROUND FLOOR PLAN - PLUMBING NEW M-4.1





PROVIDE APPROPRIATE MEANS FOR FIRESTOPPING FOR ALL PENETRATIONS THROUGH FIRE-RATED ASSEMBLIES.

6. PATCH ALL FLOOR/WALL PENETRATIONS FROM REMOVED

DRAINAGE DRAWING NOTES

1) PROVIDE NEW FLOOR DRAIN AS SPECIFIED C/W TRAP SEAL PRIMER.

(2) NEW VENT PIPING INSTALLATION IN CEILING SPACE. PROVIDE NEW 75¢ VTR WHERE INDICATED.

(3) DISTRIBUTE VENT PIPING TO PLUMBING FIXTURES IN ACCORDANCE WITH THE ONTARIO BUILDING CODE.

(4) EXISTING BURIED SANITARY DRAINAGE PIPING. EXACT LOCATION OF EXISTING DRAINAGE PIPING TO BE CONFIRMED BY CONTRACTOR ON SITE PRIOR TO CONSTRUCTION.

GENERAL NOTES

- ALL EXISTING SERVICES SHOWN ARE A GENERAL REPRESENTATION ONLY OF ACTUAL ONSITE CONDITIONS. CONTRACTOR TO VERIFY EXACT LOCATION OF EXISTING SERVICES PRIOR TO CONSTRUCTION AND REPORT ALL DISCREPANCIES TO ENGINEER IN A TIMELY MANNER.
- PROVIDE VENTING SYSTEMS IN ACCORDANCE WITH PART 7 OF THE NATIONAL PLUMBING CODE.
- PROVIDE ADEQUATE ACCESS FOR ALL EQUIPMENT, VALVES, ETC. LOCATED BEHIND WALLS AND CEILINGS. REFER TO
- PROVIDE TRAP PRIMING AND ASSOCIATED EQUIPMENT AS SPECIFIED AND/OR REQUIRED. ENSURE THAT TRAP PRIMER MECHANISM IS INSTALLED IN AN ACCESSIBLE LOCATION.
- PIPING/EQUIPMENT TO BASE BUILDING STANDARDS.

DRAINAGE DRAWING NOTES

1 PROVIDE NEW DCW/DHW PIPING IN CEILING SPACE

2 PROVIDE NEW WATER CLOSET AS SPECIFIED.

(3) PROVIDE NEW LAVATORY AS SPECIFIED.

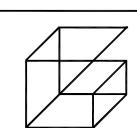
4 EXISTING DCW/DHW/DHWR PIPING IN CORRIDOR CEILING SPACE TO REMAIN.

(5) DROP DCW/DHW PIPING DOWN IN CHASE AND DISTRIBUTE TO NEW L1 AND WC3.

GENERAL NOTES

ALL EXISTING SERVICES SHOWN ARE A GENERAL REPRESENTATION ONLY OF ACTUAL ONSITE CONDITIONS. CONTRACTOR TO VERIFY EXACT LOCATION OF EXISTING SERVICES PRIOR TO CONSTRUCTION AND REPORT ALL DISCREPANCIES TO ENGINEER IN A TIMELY MANNER.

- 2. PROVIDE VENTING SYSTEMS IN ACCORDANCE WITH PART 7 OF THE NATIONAL PLUMBING CODE.
- 3. PROVIDE ADEQUATE ACCESS FOR ALL EQUIPMENT, VALVES, ETC. LOCATED BEHIND WALLS AND CEILINGS. REFER TO SPECIFICATIONS.
- 4. PROVIDE TRAP PRIMING AND ASSOCIATED EQUIPMENT AS SPECIFIED AND/OR REQUIRED. ENSURE THAT TRAP PRIMER MECHANISM IS INSTALLED IN AN ACCESSIBLE LOCATION.
- 5. PROVIDE APPROPRIATE MEANS FOR FIRESTOPPING FOR ALL PENETRATIONS THROUGH FIRE-RATED ASSEMBLIES.
- 6. PATCH ALL FLOOR/WALL PENETRATIONS FROM REMOVED PIPING/EQUIPMENT TO BASE BUILDING STANDARDS.



Giallonardo — Engineering Inc. 220-4550 Highway 7 Woodbridge, ON (905) 265 - 1052 i nfo@gi al l onardoeng. com

www.giallonardoeng.com

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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



NO.	ISSUES	DATE	В
1	ISSUED FOR REVIEW	JAN. 23 2024	G.G
2	ISSUED FOR TENDER	FEB. 12 2025	G.G
NO.	REVISIONS	DATE	В

PROJECT:

GROUND FLOOR WASHROOM RENOVATION

PORT PERRY HIGHSCHOOL

160 ROSA STREET PORT PERRY, ON, L9L 1L7 DURHAM DISTRICT SCHOOL BOARD

DRAWING:

LIBRARY WASHROOM - MECHANICAL NEW





% COMPLETE:

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 SEPTEMBER 2023 AS NOTED

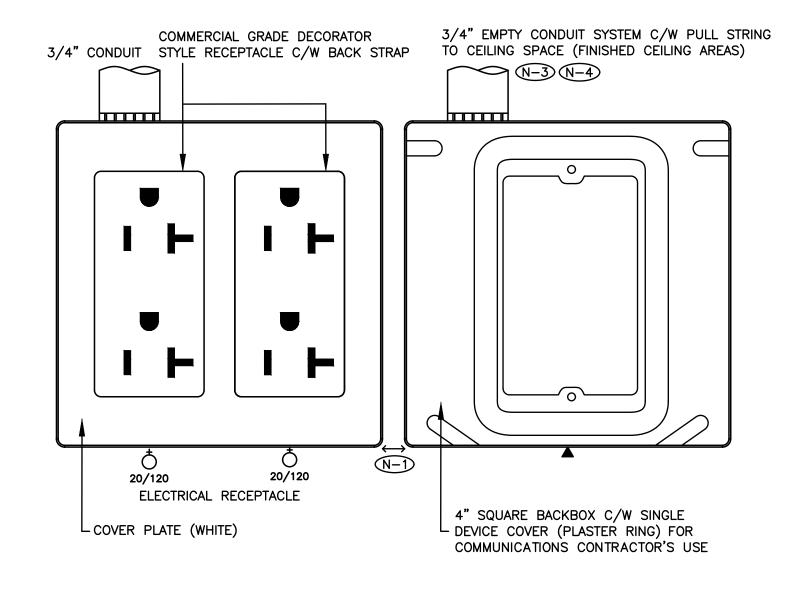
DESIGN BY:

DRAWN BY:

RG

23-165 M-4.1

PART GROUND FLOOR PLAN - DRAINAGE NEW 3 M-4.1 PA 1:50



N-1 MINIMUM CLEARANCE.

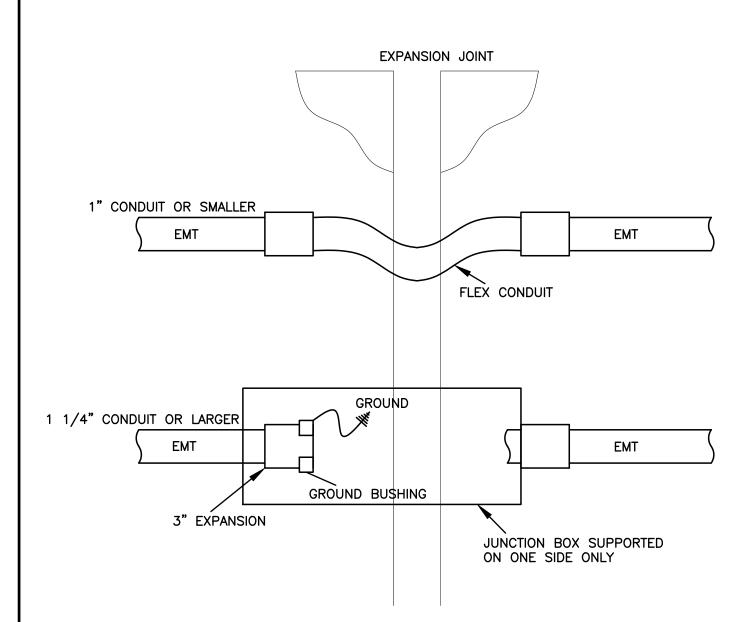
MOUNT RECEPTACLES

GROUND PIN UP

- N-2) NEATLY LABEL ALL FLOOR MOUNTED AND WALL DEVICE BOX COVERS WITH CORRESPONDING PANEL NAMES AND CIRCUIT NUMBERS, UTILIZE SELF ADHESIVE MECHANICALLY PRINTED LABELS.
- N-3 PROVIDE PUNCH OUTS IN BACKBOX TO ACCOMMODATE CONDUITS
- (N-4) TERMINATE CONDUIT WITH A 90 DEGREE BEND AND PLASTIC BUSHING IN THE ACCESSIBLE CEILING SPACE.

UTILITY CCT - WHITE RECEPTACLE (WALLS)/BLACK RECEPTACLE (DARK MILLWORK)





EXISTING CEILING MOUNTED/SUSPENDED FIXTURE CONNECTED TO UTILITY LIGHTING CIRCUIT.

CEILING MOUNTED/SUSPENDED FIXTURE. CONNECT TO SWITCHED BASE BUILDING UTILITY LIGHTING CIRCUIT.

CEILING MOUNTED/SUSPENDED FIXTURE. CONNECT TO NON-SWITCHED 24-HOUR NIGHT LIGHTING CIRCUIT. RECESSED/PENDENT DOWNLIGHT. CONNECT TO SWITCHED BASE BUILDING

UTILITY LIGHTING CIRCUIT. EMERGENCY BATTERY UNIT, TYPE 'D1', SOURCE 'M1'. BATTERY SHALL BE MOUNTED AT HIGH LEVEL.

REMOTE EMERGENCY LIGHTING FIXTURE, TYPE 'D2' FED FROM SOURCE

'M2'. CEILING OR WALL MOUNTED "EXIT" LIGHT.

WHITE DECORA STYLE LIGHT SWITCH, WALL MOUNTED, VOLTAGE AND CURRENT RATINGS AS REQUIRED.

WALL MOUNTED ROOM LIGHT SWITCH WATT STOPPER LMSW-10X. 'OV1' DENOTES ONE (1) DIGITAL PUSH BUTTON. 'OV2' DENOTES TWO (2) DIGITAL PUSH BUTTONS.

'OV3' DENOTES THREE (3) DIGITAL PUSH BUTTONS. 'OV4' DENOTES FOUR (4) DIGITAL PUSH BUTTONS.

WALL MOUNTED AREA LIGHT SWITCH WATT STOPPER LMSW-10X. 'OW2' DENOTES TWO (2) DIGITAL PUSH BUTTONS. 'OW3' DENOTES THREE (3) DIGITAL PUSH BUTTONS. 'OW4' DENOTES FOUR (4) DIGITAL PUSH BUTTONS.

'OW5' DENOTES FIVE (5) DIGITAL PUSH BUTTONS.

'OW6' DENOTES SIX (6) DIGITAL PUSH BUTTONS. 15AMP/120VOLT, U-GROUND DUPLEX RECEPTACLE. GFI DENOTES OUTLET C/W GROUND FAULT INTERRUPT PROTECTION.

RECEPTACLE, REQUIREMENT AS NOTED.

20A/120V DUPLEX RECEPTACLE, CSA 5-20R (T-SLOT).

DIRECT CONNECTION.

STARTER.

NON-FUSED HORSEPOWER RATED VISIBLE BLADE HEAVY DUTY DISCONNECT SWITCH C/W PADLOCK PROVISION IN OFF POSITION

VISIBLE BLADE HEAVY DUTY DISCONNECT SWITCH C/W PADLOCK PROVISION IN OFF POSITION FUSED AT '15A' 30/15A/3P

RP-A-X(D) CIRCUIT 'X' FED FROM RECEPTACLE PANEL 'A'. '(D)' DENOTES DESIGNATED CIRCUIT FOR ISOLATED GROUND DUPLEX RECEPTACLE.

RP-A-X(D) EXISTING CIRCUIT 'X' FED FROM RECEPTACLE PANEL 'A'. '(D)' DENOTES DESIGNATED CIRCUIT FOR ISOLATED GROUND DUPLEX RECEPTACLE.

INDICATES EXISTING DEVICE TO REMAIN

INDICATES EXISTING DEVICE TO BE REMOVED. REMOVE CONDUIT AND WIRE BACK TO SOURCE.

DENOTES EXISTING DEVICE IN RELOCATED POSITION. PROVIDE CONDUIT AND WIRE BACK TO SOURCE.

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.

DENOTES NEMA TYPE 4X ENCLOSURE SUITABLE FOR HOSE DIRECTED WATER

4" SQUARE BACKBOX C/W SINGLE DEVICE COVER (PLASTER RING) AND 3/4" EMPTY ZONE CONDUIT ASSEMBLY FOR COMMUNICATIONS CONTRACTOR'S USE. PROVIDE A PULL STRING IN CONDUIT.

SINGLE GANG BACKBOX AND 3/4" EMPTY ZONE CONDUIT ASSEMBLY TO CEILING SPACE FOR FUTURE PUBLIC ADDRESS CALL-SWITCH. PROVIDE A PULL STRING IN CONDUIT. PROVIDE BLANK COVER PLATE.

FIRE ALARM SYSTEM HORN. CONNECT TO BASE BUILDING FIRE ALARM SYSTEM. RED IN COLOUR.

FIRE ALARM SYSTEM COMBINATION STROBE LIGHT/HORN. CONNECT TO BASE BUILDING FIRE ALARM SYSTEM. RED IN COLOUR.

FIRE ALARM SYSTEM STROBE LIGHT. CONNECT TO BASE BUILDING FIRE ALARM SYSTEM. RED IN COLOUR.

HEAT DETECTOR. CONNECT TO BASE BUILDING FIRE ALARM SYSTEM. SMOKE DETECTOR. CONNECT TO BASE BUILDING FIRE ALARM SYSTEM.

24V WALL MOUNTED MAGNETIC DOOR HOLDER - SUPPLIED AND INSTALLED BY ELECTRICAL CONTRACTOR

CONTROL ZONE MODULE. CONNECT TO BASE BUILDING FIRE ALARM

ISOLATION MODULE. CONNECT TO BASE BUILDING FIRE ALARM SYSTEM.

FIRE ALARM SYSTEM. EOL END OF LINE RESISTOR. CONNECT TO BASE BUILDING FIRE ALARM SYSTEM

INITIATING DEVICE INTERFACE ZONE MODULE. CONNECT TO BASE BUILDING

ROOM CEILING MOUNTED OCCUPANCY SENSOR WATT STOPPER LMDC-100. SENSOR PRESET AT 20 MINUTE TIME OUT SETTING C/W MANUAL ON AND AUTO OFF AND DEFAULT DETECTION TECHNOLOGY SETTING. OPEN OFFICE AREA CEILING MOUNTED OCCUPANCY SENSOR WATT STOPPER

LMDC-100. SENSOR PRESET AT 20 MINUTE TIME OUT SETTING C/W MANUAL ON AND AUTO OFF AND DEFAULT DETECTION TECHNOLOGY SETTING. NON-SWITCHED CORRIDOR CEILING MOUNTED OCCUPANCY SENSOR WATT STOPPER LMDC-100. SENSOR PRESET AT 20 MINUTE TIME OUT SETTING

C/W AUTO ON AND AUTO OFF WALK THROUGH MODE ON AND DEFAULT SHOWER CEILING MOUNTED OCCUPANCY SENSOR WATT STOPPER FS-305/FS-L2W WITH WEATHERPROOF ENCLOSURE AND POWER PACKS AS REQUIRED (VOLTAGE RATINGS TO SUIT LIGHTING LOADS). SENSOR PRESET AT 30 MINUTE TIME OUT SETTING C/W WALK-THROUGH MODE, STANDARD

DIGITAL ON/OFF/DIMMING ROOM CONTROLLER WATT STOPPER LMRC-212/LMRC-212-347 (VOLTAGE RATING AS REQUIRED TO SUIT LIGHTING LOAD).

LOGIC, ENABLED LED AND SMARTSET PIR SENSITIVITY.

ACCESSIBLE WAVE SENSOR ROUGH-IN C/W CONDUIT AND WIRES

WALL/CEILING MOUNTED PUBLIC ADDRESS SYSTEM PAGING SPEAKER CONNECTED TO EXISTING PUBLIC ADDRESS SYSTEM. "CL" DENOTES CEILING MOUNTED. "FL" DENOTES RECESSED MOUNTED.

WALL/CEILING MOUNTED PUBLIC ADDRESS SYSTEM CALL—SWITCH CONNECTED TO EXISTING PUBLIC ADDRESS SYSTEM.

WIRELESS ACCESS POINT ROUGH-IN

SUBSTITUTES ARE NOT PERMITTED FOR ALL SPECIFIED PRODUCTS.

SHOP DRAWINGS ARE REQUIRED FOR ALL PRODUCTS SPECIFIED FOR THIS PROJECT INCLUDING BUT NOT LIMITED TO LIGHTING FIXTURES, LIGHTING CONTROLS, FIRE ALARM SYSTEM DEVICES, PUBLIC ADDRESS DEVICES, LAMACOID PLATES, RECEPTACLES AND

COVER PLATES.

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 INCLUDING DISTRIBUTION, FEEDERS, BRANCH CIRCUITS, VARIOUS SYSTEMS, ETC. MUST COMPLY WITH ALL LOCAL SEISMIC RESTRAINT REQUIREMENTS.

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 S524:19 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 THIS SCOPE OF WORK AND PRIOR TO CONSTRUCTION, ELECTRICAL CONTRACTOR SHALL COORDINATE AND PAY FOR THE SERVICES OF THE BUILDING INSPECTOR TO REVIEW THE PROPOSED EXIT SIGN ORIENTATION, LOCATIONS, FACES (READ OR PICTOGRAM) AND CHEVRONS.

AS PART OF THE BASE BID PRICE ELECTRICAL CONTRACTOR SHALL PROVIDE A FIRE WATCH THROUGHOUT THE DURATION OF THE

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, 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 AND FOR COSTS TO OBTAIN CAD FILES.

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 TO ACCOMMODATE ALL SCOPES OF WORK SHALL BE PROVIDED BY THE ELECTRICAL CONTRACTOR.

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.

PROVIDE A DEDICATED NEUTRAL PER PHASE FOR ALL BRANCH CIRCUITS PROVIDED AS PART OF THIS SCOPE OF WORK. DO NOT SHARE NEUTRALS.

DRAWING LIST

E-1.1 - ELECTRICAL LEGEND AND DETAILS

E-2.1 - ELECTRICAL PLAN - GROUND FLOOR

E-9.3 - ELECTRICAL PLANS - CHANGE ROOMS

E-9.1 - ELECTRICAL PLANS - LIBRARY WASHROOM

E-9.2 - ELECTRICAL PLANS - STAFF WC SUITES AND MUSIC OFFICE

E-9.4 - ELECTRICAL DEMOLITION PLANS - CHANGE ROOMS

E-7.1 - ELECTRICAL SINGLE LINE DIAGRAM

E-1.2 - ELECTRICAL DETAILS

E-1.3 - ELECTRICAL DETAILS

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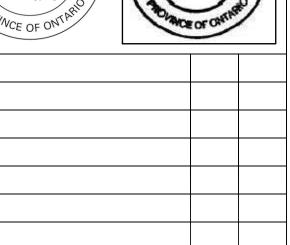
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	2.	ISSUED FOR REVIEW	JAN23/25	KZ
	3.	ISSUED FOR TENDER	FEB12/25	KZ





H.D. COHEN 90414335

DATE BY

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

PROJECT:

NO. REVISIONS

PORT PERRY

1ST FLOOR

160 ROSA STREET PORT PERRY, ON, L9L 1L7 DURHAM 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 e-mail: bba@bba-archeng.com

DRAWING NO:

FILE:

AS SHOWN

DRAWN BY:

NOVEMBER 2024

HDC

DOC CONTROL:

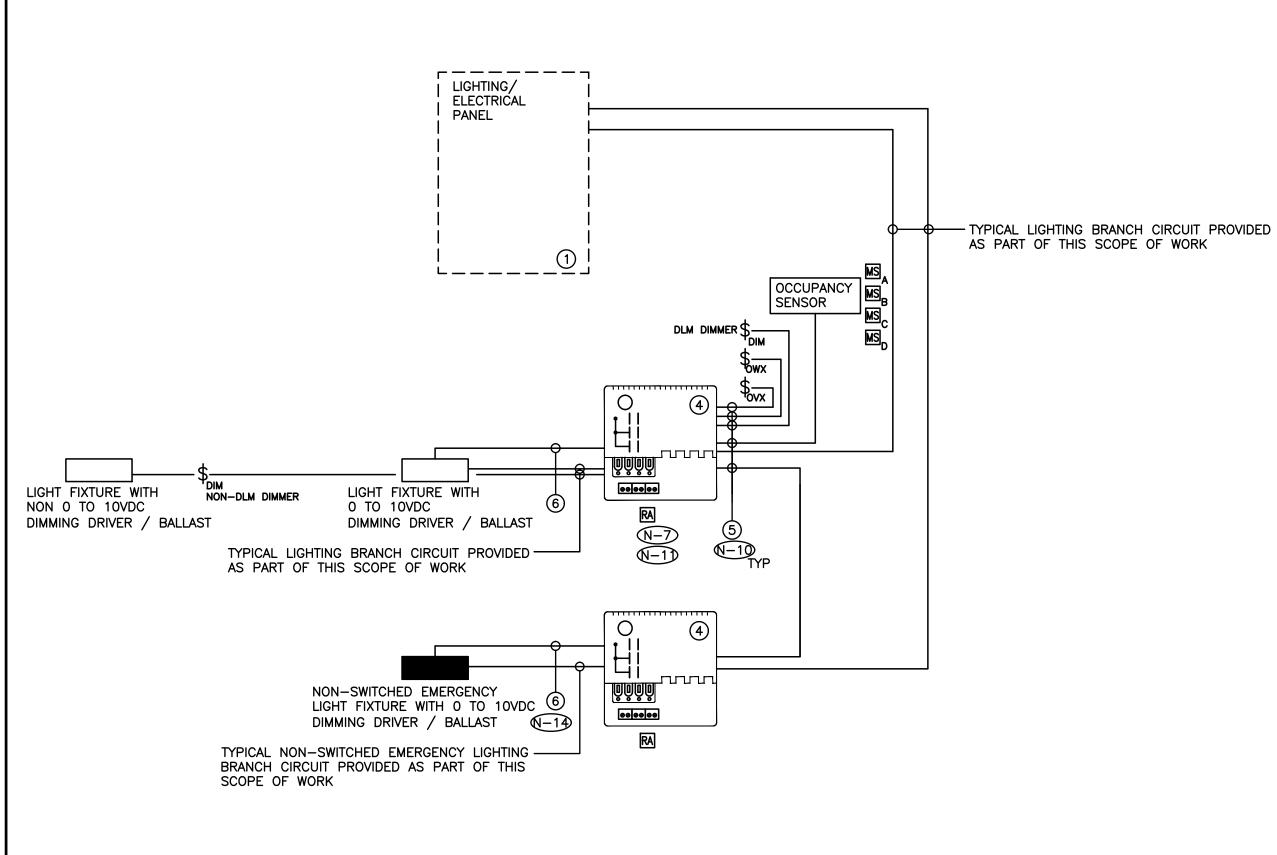
% COMPLETE:

PROJECT NO:

2427

EXPANSION JOINT CROSSING DETAIL

\E-1.1/ SCALE: NTS



SCHEMATIC IS DIAGRAMMATIC ONLY. REFER TO FLOOR PLANS AND REFLECTED CEILING PLANS FOR DEVICE QUANTITY AND LOCATIONS. PROVIDE QUANTITY OF HARDWARE. ZONE CONTROLLERS. ROOM CONTROLLERS. PLUG LOAD CONTROLLERS, SENSORS, DEVICES, CONDUIT, WIRE, CONFIGURATION TOOLS, ETC. TO ENSURE A FULLY OPERATIONAL LOW VOLTAGE LIGHTING CONTROL SYSTEM.

N-2 NOT USED.

LIGHT LEVEL OUTPUT (IE, DIMMING LEVEL) FOR EACH AND EVERY FIXTURE PROVIDED AS PART OF THIS SCOPE OF WORK IN ROOMS/AREAS/CORRIDORS/ ETC.. WITH DLM CONTROL TO BE FIELD ADJUSTED ON SITE WITH CLIENT POST OCCUPANCY. TARGET LIGHT LEVELS FOR EACH LOW VOLTAGE LIGHTING ZONE TO BE PROVIDED BY THE CLIENT POST OCCUPANCY. PROCURE (COORDINATE AND PAY FOR) THE SERVICES OF WATTSTOPPER TO ADJUST, PROGRAM AND COMMISSION THE LIGHTING CONTROL SYSTEM.

AS PART OF THIS SCOPE OF WORK PROCURE THE SERVICES OF A THIRD PARTY PROFESSIONAL ENGINEER TO MEASURE AND RECORD LIGHTING LEVELS IN FOOT CANDLES THROUGHOUT THE ENTIRE SCOPES OF WORK AREAS WITH A CALIBRATED LIGHT METER. AFTER ALL FIELD ADJUSTMENTS HAVE BEEN COMPLETED. READINGS SHALL BE TAKEN BASED ON A MINIMUM OF ONE READING FOR EVERY 20' CENTER IN OPEN OFFICE AREAS AND CORRIDORS / HALLWAYS AND ONE READING IN EACH CLOSED OFFICE, MEETING ROOM, BOARDROOM, ETC. ALL LIGHT LEVEL READINGS ARE TO BE TAKEN DURING NON-DAYLIGHT HOURS. PROVIDE A SEALED REPORT IDENTIFYING LIGHT LEVEL READINGS.

ALL LOW VOLTAGE WIRING TO BE INSTALLED IN AN ENCLOSED CONDUIT SYSTEM.

PROVIDE POWER, CONDUIT, BACKBOX AND WIRING IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS. MINIMUM CONDUIT SIZE 3/4".

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.

PROVIDE ROOM CONTROLLERS TO ACCOMMODATE ALL LIGHTING ZONES IN CLOSED ROOMS (IE. OFFICES, MEETING ROOMS, ETC.) PROVIDED AS PART OF THIS SCOPE OF WORK. MAXIMUM OF TWO (2) SWITCH LEGS PER ROOM CONTROLLER.

N-8 NOT USED.

ALL ROOM CONTROLLERS PROVIDED AS PART OF THIS SCOPE OF WORK IN EXPOSED CEILING AREAS MUST BE INSTALLED WITHIN WALL MOUNTED VENTILATED JUNCTION BOXES PROVIDED AS PART OF THIS SCOPE OF WORK. TYPICAL MOUNTING HEIGHT @10'AFF. COORDINATE EXACT MOUNTING HEIGHT FOR EACH ROOM / AREA ON SITE

TERMINATE AND TEST ALL LOW VOLTAGE CONTROL CABLES PROVIDED AS PART OF THIS SCOPE OF WORK. PROVIDE TEST RESULTS FOR ALL LOW VOLTAGE CONTROL CABLES PROVIDED AS PART OF THIS SCOPE OF WORK AT THE END OF CONSTRUCTION. TEST RESULTS SHALL BE INCLUDED AS PART OF THE CLOSE OUT DOCUMENTS. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

REFER TO MANUFACTURER'S INSTALLATION GUIDELINES FOR ADDITIONAL INSTALLATION REQUIREMENTS OVER AND ABOVE THOSE DETAILS ON THIS SCHEMATIC.

PROVIDE POWER PACKS, AS REQUIRED FOR A FULLY OPERATIONAL SYSTEM. POWER PACKS NOT SHOWN ON REFLECTED CEILING PLANS.

ELECTRICAL CONTRACTOR'S BASE BID PRICE SHALL INCLUDE FOUR (4) HOURS OF ON SITE COORDINATION TIME WITH WATTSTOPPER PRIOR TO ORDERING LIGHTING SYSTEM COMPONENTS TO CONFIRM DEVICES AND WIRING REQUIREMENTS. ALL CHANGES TO BE REVIEWED AND APPROVED BY CONSULTANT ON SITE PRIOR TO EXECUTION.

PROVIDE 0 TO 10VDC CONTROL WIRING TO EACH AND EVERY EXISTING FIXTURE, RELOCATED FIXTURE AND NEW FIXTURE PROVIDED AS PART OF THIS SCOPE OF WORK.

(1) TYPICAL RECEPTACLE / LIGHTING PANEL. REFER TO DRAWING NO. E-7.1 FOR ADDITIONAL REQUIREMENTS

(2) NOT USED

(3) NOT USED.

4 ON / OFF / DIMMING ROOM CONTROLLER

(5) PLENUM RATED 4 PAIR CAT6 UTP CABLE AS MANUFACTURED BY WATT STOPPER

(6) O TO 10VDC CONTROL WIRING PER MANUFACTURER'S RECOMMENDATIONS

DENOTES NEW PROVIDED BY ELECTRICAL CONTRACTOR.

DENOTES EXISTING TO REMAIN.

*-X-X-X-X-X-DENOTES EXISTING TO BE REMOVED BY ELECTRICAL CONTRACTOR.

INSTALL LOW VOLTAGE CONTROL SYSTEM IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS, ASHRAE 90.1 2016, ONTARIO BUILDING CODE, ELECTRICAL SAFETY CODE AND THESE DOCUMENTS.

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.

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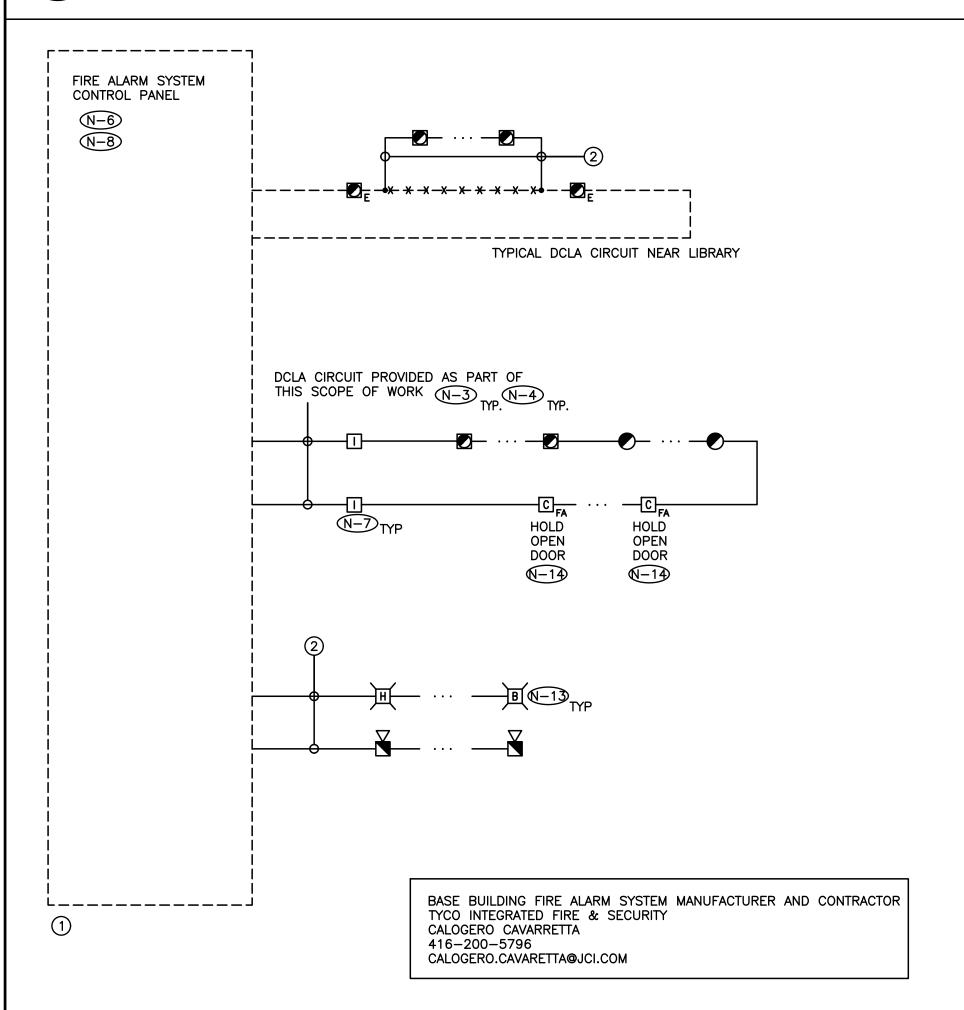
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DATE BY

LOW VOLTAGE LIGHTING CONTROL SYSTEM WIRING SCHEMATIC SCALE: NTS



PARTIAL BASE BUILDING FIRE ALARM SYSTEM RISER DIAGRAM

SCALE: NTS

N-1) RISER IS DIAGRAMMATIC ONLY. PROVIDE QUANTITY OF PROVIDE QUANTITY OF STROBE LIGHT CIRCUITS, SPEAKER CIRCUITS. SPEAKER ZONES. INITIATING DEVICE CIRCUITS. HARDWARE. MODULES. ACCESSORIES. DEVICES, CONDUIT, WIRE, ETC. TO ENSURE A FULLY OPERATIONAL FIRE ALARM SYSTEM.

REFER TO FLOOR PLANS AND REFLECTED CEILING PLANS FOR EXACT QUANTITY AND LOCATION OF

DEVICES, DEVICE PERIPHERALS AND ACCESSORIES (IE. WIRE GUARD, EXPLOSION PROOF DEVICES,

- WEATHER PROOF DEVICES, ETC) PROVIDE POWER, MI CABLE, CONDUIT, BACKBOX AND WIRING IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS. MINIMUM CONDUIT SIZE 3/4".
- (N-4) EACH DCLA WIRING LOOP SHALL BE LIMITED TO SERVING DEVICES ON ONE FLOOR.
- PROVIDE DEDICATED CORE DRILLED FLOOR AND WALL PENETRATIONS ON EVERY FLOOR AS REQUIRED FOR FIRE ALARM SYSTEM CONDUITS/MI CABLE. EXACT LOCATION OF ALL CORE DRILLS TO BE DETERMINED BY X-RAYING RESULTS.
- N-6 MODIFY, REWORK AND PROVIDE ALL COMPONENTS AND ACCESSORIES FOR CONTROL PANEL/TRANSPONDER AS REQUIRED TO ACCOMMODATE ALL SCOPES OF WORK AS NOTED ON DRAWINGS AND IN SPECIFICATIONS.
- PROVIDE LINE ISOLATOR MODULES TO ISOLATE DCLA SEGMENTS ON A PER FIRE ALARM ZONE BASIS, ON A PER FLOOR BASIS AND AS REQUIRED BY THE MANUFACTURER AND BY ONTARIO BUILDING CODE. NOTE: PROVIDE ADDITIONAL LINE ISOLATOR MODULES AS REQUIRED OVER AND ABOVE THOSE SHOWN ON RISER DIAGRAM TO SATISFY ISOLATION REQUIREMENTS.
- (N-8) PROVIDE ADDITIONAL BATTERIES IN EXISTING CONTROL PANEL/TRANSPONDER AS REQUIRED TO SUPPORT THE TOTAL LOAD REQUIREMENTS AT THE COMPLETION OF THIS PROJECT.

SHALL NOT EXCEED 70%. CIRCUIT REQUIREMENTS NOT SHOWN ON RISER DIAGRAM.

- PROVIDE 24VDC CIRCUITS FOR STROBES AND OTHER 24VDC DEVICES. MAXIMUM LOAD ON EACH CIRCUIT
- $(\sqrt{-10})$ NOT USED.
- AS PART OF THE BASE BID PRICE ELECTRICAL CONTRACTOR SHALL PROVIDE A FIRE WATCH THROUGHOUT THE DURATION OF THE PROJECT.
- DO NOT REUSE EXISTING FIELD WIRING AND CONDUIT, FIRE ALARM DEVICES, ETC., REMOVED AS PART OF THIS SCOPE OF WORK.
- N-13) PROVIDE STROBE CIRCUIT SYNCHRONIZATION MODULES.
- √14) PROVIDE PROGRAMMING TO INITIATE THE RELEASE OF MAGNETIC DOOR HOLD OPEN DEVICE WHEN FIRE ALARM SYSTEM IS ACTIVATED. PROVIDE REQUIRED WIRING, COMPONENTS, ACCESSORIES, ETC.
- (1) EXISTING FIRE ALARM SYSTEM CONTROL PANEL SIMPLEX 4100ES
- (2) CONDUIT AND WIRE PER MANUFACTURER'S REQUIREMENTS

DENOTES NEW PROVIDED BY ELECTRICAL CONTRACTOR

---- DENOTES EXISTING TO REMAIN

-x--x-x DENOTES EXISTING TO BE REMOVED BY ELECTRICAL CONTRACTOR

FIXTURE SCHEDULE

3000 LUMEN 2' X 4' RECESSED MOUNTED LED FIXTURE, SUITABLE FOR DRYWALL CEILING C/W IN LINE POWER DISCONNECT, SMOOTH FROSTED ACRYLIC LENS, 120V 0 TO 10VDC DIMMING DRIVER AND LAMP (4000K/85% CRI). COOPER LIGHTING CRUZE SERIES 24CZ2-30-S-UNV-L840-CD1-U

3000 LUMEN 2' X 4' RECESSED MOUNTED LED FIXTURE, SUITABLE FOR LAY-IN CEILING C/W IN LINE POWER DISCONNECT, SMOOTH FROSTED ACRYLIC LENS, 120V 0 TO 10VDC DIMMING DRIVER AND LAMP (4000K/85%

CRI). COOPER LIGHTING CRUZE SERIES 24CZ2-30-S-UNV-L840-CD1-U 1500 LUMEN 4" ROUND RECESSED MOUNTED LED DOWNLIGHT FIXTURE C/W IN-LINE POWER DISCONNECT, 120V 0 TO 10VDC DIMMING DRIVER, WIDE DISTRIBUTION AND LED LAMP (4000K, 90%CRI). COOPER LIGHTING

PORTFOLIO SERIES LD4C15D010 EU4C159040 4LBWH HB26. 1500 LUMEN 4" ROUND RECESSED MOUNTED LED DOWNLIGHT FIXTURE SUITABLE FOR WET LOCATIONS C/W IN-LINE POWER DISCONNECT, 120V 0 TO 10VDC DIMMING DRIVER, NONCONDUCTIVE WHITE POLYMER TRIM,

IP66 GASKET AND LED LAMP (4000K, 90%CRI). COOPER LIGHTING PORTFOLIO SERIES LD4C15D010 EU4C159040 4LBPS1MW HB26 LGSKT4IP66. 8' SUSPENDED LINEAR DIRECT/INDIRECT LED FIXTURE C/W IN-LINE POWER DISCONNECT, INTEGRATED WAVELINX CONTROL MODULE AND WIRELESS SENSOR, 120V 0 TO 10VDC DIMMING DRIVER, 15% UPLIGHT,

AIRCRAFT CABLE TO SUIT MOUNTING HEIGHT AND LAMP (4000K, 80%CRI). COOPER LIGHTING WSLA-50-SP-UPL15-UNV-L840-CD-AC48-8FT

TYPE LE1 - 2' X 4' RECESSED MOUNTED FLUORESCENT FIXTURE C/W 120V BALLAST, ACRYLIC LENS AND 2 X T8 LAMPS. 1' X 4' SURFACE MOUNTED FLUORESCENT FIXTURE C/W 120V BALLAST, FROST LENS AND 2 X T8 LAMPS.

4' SURFACE MOUNTED LINEAR FLUORESCENT FIXTURE C/W 120V BALLAST, ACRYLIC LENS AND 1 X T8 LAMP.

1' X 4' SUSPENDED FLUORESCENT FIXTURE C/W 120V BALLAST, CAGE LOUVER AND 2 X T12 LAMPS.

EMERGENCY LIGHTING SYSTEM C/W 10 YEAR 24VOLT/720W/0.5 HOUR/BATTERY UNIT/120V VOLT INPUT/STANPRO SLD SERIES SLD-24-720-00-X-WH. WHITE IN COLOUR.

2 X 5W LA LED 24V STANPRO SMC2W ANTI VANDAL REMOTE HEADS, WHITE IN COLOUR.

1 X 5W LA LED 24V STANPRO SMC ANTI VANDAL REMOTE HEAD, WHITE IN COLOUR.

2 X 7W LA LED 24V STANPRO SMC2W ANTI VANDAL REMOTE HEADS, WHITE IN COLOUR.

EMERGENCY LIGHTING SYSTEM VANDAL RESISTANT COMBINATION UNIT C/W 120/347VAC/12VDC 36W BATTERY UNIT AND 2 X LED 7W LA HEADS. STANPRO SLMC-12-36W-2-7WLA-WH-AT WHITE IN COLOUR.

PICTOGRAM GREEN ANTI VANDAL LED EXIT SIGN C/W STANPRO FIELD INSTALLABLE CANOPY KIT. STANPRO RMV SERIES RMV-X-X-WH-UDC.

FIXTURE SCHEDULE

SCALE: NTS

\E−1.2/

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

PROJECT:

NO. | REVISIONS

PORT PERRY

1ST FLOOR

160 ROSA STREET PORT PERRY, ON, L9L 1L7 DURHAM DISTRICT SCHOOL BOARD

DRAWING:

ELECTRICAL DETAILS



BARRY BRYAN **ASSOCIATES** Architects Engineers Project Managers 250 Water Street

Suite 201 Whitby, Ontario L1N 0G5

HDC **NOVEMBER 2024** AS SHOWN

CHECKED BY:

DESIGN BY

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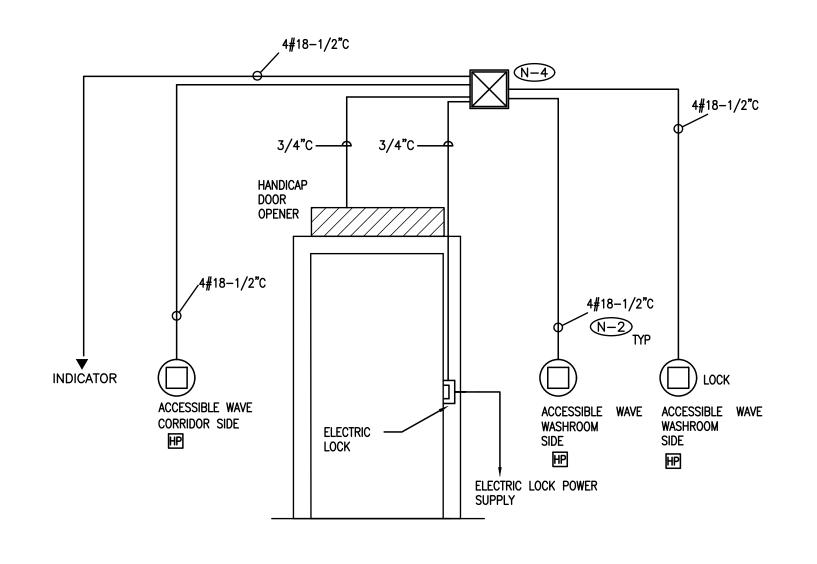
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Tel: (905) 666-5252 Fax: (905) 666-5256 e-mail: bba@bba-archeng.com

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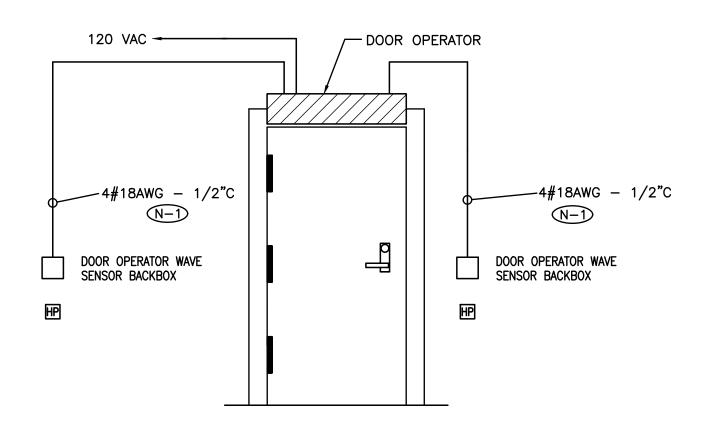
FILE:



DRAWING NOTES

- N-1) ROUGH-IN DETAILS ARE DIAGRAMMATIC.
- N-2 PROVIDE WIRE, CONDUIT AND BACKBOXES INDICATED.
- N-3 COORDINATE THE ROUGH-IN REQUIREMENT WITH DOOR MANUFACTURER AND
- DOOR OPERATOR CONTRACTOR PRIOR TO CONSTRUCTION.
- N-4 PULLBOX INDICATED MUST BE LOCATED AT THE SECURED SIDE OF THE DOOR. MINIMUM PULLBOX SIZE 12" X 12".

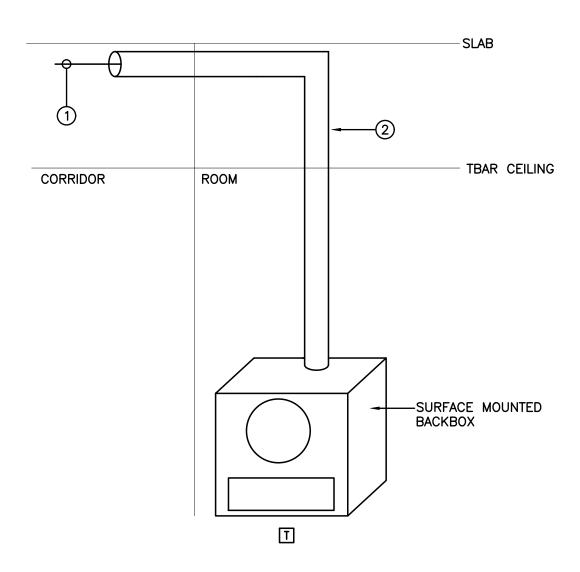




DRAWING NOTES

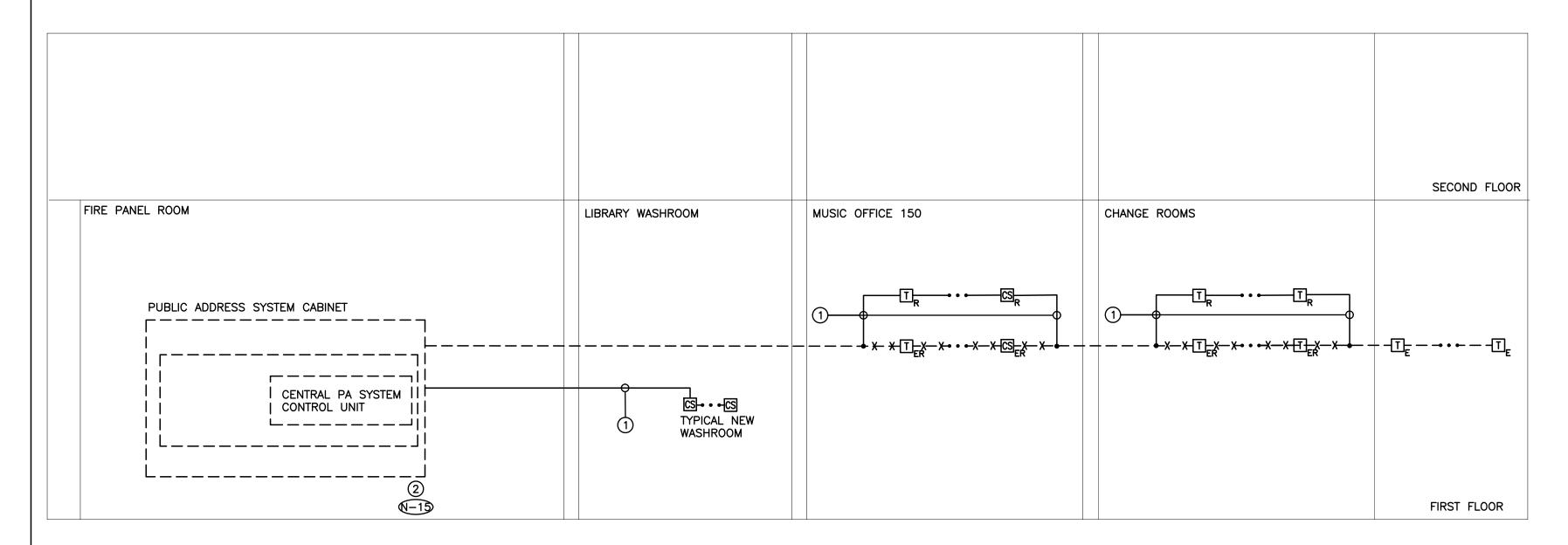
- N-1) PROVIDE WIRE, CONDUIT AND BACKBOXES INDICATED. COORDINATE THE ROUGH—IN REQUIREMENT WITH DOOR MANUFACTURER PRIOR TO CONSTRUCTION.
- BARRIER FREE DOOR OPENER SYSTEM DETAIL

E-1.3 SCALE: NTS



- N-1) DETAIL IS DIAGRAMMATIC ONLY. REFER TO FLOOR PLANS FOR QUANTITY AND LOCATIONS OF DEVICES.
- N-2 PROVIDE SEPARATE RACEWAYS AS SHOWN FOR ALL SPEAKER WIRING AND FOR ALL CLOCK POWER/DATA WIRING.
- N-3 CONDUITS ARE TO BE SUPPORTED BY THE CEILING STRUCTURE ABOVE.
- N-4) REFER TO RISER DIAGRAM FOR WIRING SPECIFICATIONS AND REQUIREMENTS.
- (1) SPEAKER CABLE
- 2 SURFACE MOUNTED RACEWAY FOR SPEAKER CABLES





DENOTES NEW PROVIDED BY ELECTRICAL CONTRACTOR ---- DENOTES EXISTING TO REMAIN * * * * * DENOTES EXISTING TO BE REMOVED BY ELECTRICAL CONTRACTOR

AWG Wire Maximum Distance for a 0.5 dB Cable Loss (feet) (Ω/feet) Size 0.0408 908 454 227 0.0257 1441 360 180 0.0161 2300 1150 575 287 115 0.0102 3630 453 0.00639 5796 2898 1449 724 0.00402 9212 1151 0.00253 14637 3659 1829 7318 12 0.00159 23291 5822 2911 10 0.000999 37070 18535 9267 4633 0.000628 58970 29485 14742 7371 2948 93755 46877 23438 11719 4687 Speaker Transformer Tap | 0.25 W | 0.5 W 1W 2W 4W 10 W 20 W

SPEAKER CABLE DISTANCES

- N-1) RISER IS DIAGRAMMATIC ONLY. PROVIDE QUANTITY OF HARDWARE, DEVICES, ACCESSORIES, POWER CIRCUITS, CONDUITS, WIRES, DATA CIRCUITS, SPEAKER CIRCUITS, ETC, TO ENSURE A FULLY OPERATIONAL PUBLIC ADDRESS SYSTEM.
- N-2 REFER TO SYSTEMS (FLOOR) PLANS FOR EXACT QUANTITY AND LOCATION OF DEVICES, DEVICE PERIPHERALS AND ACCESSORIES, INCLUDING WIREGUARDS.
- N-3 PROVIDE CONDUITS AND WIRES IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. MINIMUM CONDUIT SIZE AND WIRE REQUIREMENTS AS DETAILED ON RISER.
- N-4 A SINGLE SPEAKER CIRCUIT (IE. RUN OF WIRING) SHALL NOT EXCEED FIVE (5) SPEAKERS OR A TOTAL POWER/LOAD
- OF 30W. N-5 PROVIDE DEDICATED FLOOR AND WALL PENETRATIONS. EXACT LOCATION OF ALL CORE DRILLS TO BE DETERMINED BY X-RAY RESULTS. X-RAYS MUST BE REVIEWED AND APPROVED BY TCDSB AND STRUCTURAL ENGINEER PRIOR TO CORE
- N-6 NOT USED.
- (N-7) NOT USED.
- N-8 SUPPLY CADDY HANGERS, THREADED ROD EXTENSIONS, CABLE SUPPORTS, TIE-WRAPS AND ANY OTHER MISCELLANEOUS HARDWARE REQUIRED TO SUPPORT LOW VOLTAGE CABLING IN LAY-IN CEILING AREAS WHERE CONDUIT HAS NOT BEEN PROVIDED. ANCHORS FOR CADDY HANGERS MUST NOT BE DRILLED INTO POST TENSIONED BEAMS UNDER ANY CIRCUMSTANCES. BRIDAL RING CADDY FASTENERS AND OTHER ALTERNATES TO 'J-HOOKS' OR THEIR EQUIVALENT MAY NOT BE USED TO SUPPORT THE HORIZONTAL CABLING. DO NOT SUPPORT CABLES TO T-BAR CEILING HANGERS OR HAVE ANY CABLES LAYING ON CEILING TILES.
- N-9 CABLING FOR SPEAKERS (PAGING ZONES) SHALL BE BUNDLED SEPARATELY FROM OTHER SYSTEMS TO AVOID ELECTRICAL NOISE. CABLING FOR SPEAKERS MUST BE AT LEAST 1 FOOT FROM OTHER SYSTEMS' CABLING.
- (N-10) NOT USED.
- (N-1) NOT USED.
- ROUTE AND OFFSET SYSTEMS CABLING, ETC. PROVIDED AS PART OF THIS SCOPE OF WORK AROUND EXISTING DISTRIBUTION, JUNCTION BOXES, PULL BOXES, ETC. IN RISER ROOMS TO ACCOMMODATE INSTALLATION.
- $\sqrt{13}$ NOT USED.
- $\sqrt{14}$ NOT USED.
- № PROVIDE QUANTITY OF AMPLIFIERS, HARDWARE, SOFTWARE, POWER SUPPLIES, ETC., AS REQUIRED TO ENSURE A FULLY FUNCTIONAL PUBLIC ADDRESS SYSTEM.
- (1) CALL-SWITCH / SPEAKER WIRE ONE PAIR PLENUM RATED - 22AWG
- 2 EXISTING PUBLIC ADDRESS SYSTEM HEAD END UNIT TO REMAIN VALCOM/SIMPLEX 5100

EXISTING PUBLIC ADDRESS SYSTEM MANUFACTURER VALCOM, INC. ROBBIE LEFFUE RJL@VALCOM.COM 540-798-7033

DO NOT SCALE THE DRAWINGS.

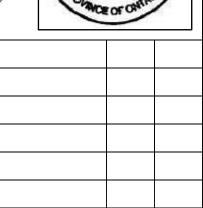
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NO.	ISSUES	DATE	BY
1.	ISSUED FOR REVIEW	NOV21/24	KD
2.	ISSUED FOR REVIEW	JAN23/25	KZ
3.	ISSUED FOR TENDER	FEB12/25	KZ





NO. REVISIONS DATE BY HCC ENGINEERING

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

PROJECT:

PORT PERRY

1ST FLOOR

160 ROSA STREET PORT PERRY, ON, L9L 1L7 DURHAM DISTRICT SCHOOL BOARD

DRAWING:

ELECTRICAL 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 e-mail: bba@bba-archeng.com

FILE:

DRAWING NO: E-1.3

AS SHOWN

DESIGN BY:

DRAWN BY:

HDC

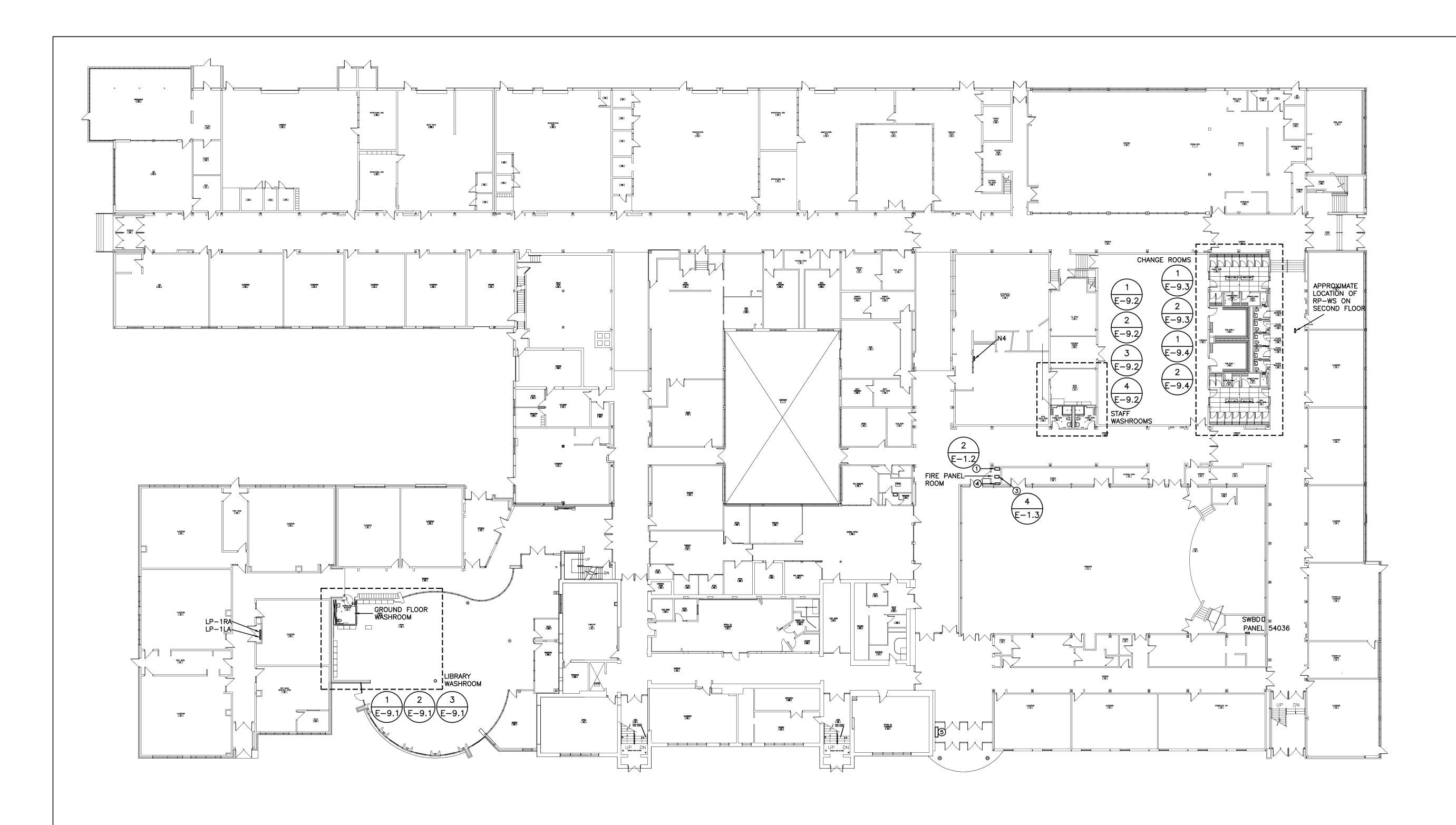
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NOVEMBER 2024

DOC CONTROL:

% COMPLETE:





N-1) ROUTE ALL CONDUIT SYSTEMS, ETC., AROUND EXISTING DUCT WORK, PIPING, ETC., AS REQUIRED TO ACCOMMODATE INSTALLATION.

- 1 EXISTING FIRE ALARM SYSTEM CONTROL PANEL
- ② APPROXIMATE ROUTING OF BRANCH CIRCUITS, FEEDERS, ETC.. PROVIDED AS PART OF THIS SCOPE OF WORK. REFER TO DETAIL NO. 3 ON DRAWING NO. E-1.2 FOR ADDITIONAL REQUIREMENTS.
- 3 EXISTING PUBLIC ADDRESS SYSTEM HEAD END UNIT TO REMAIN
- 4 EXISTING VOICE BACKBOARD.

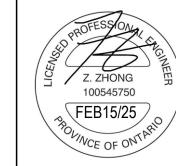
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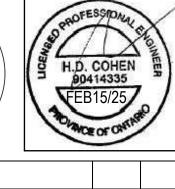
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DATE BY

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PROJECT:

NO. REVISIONS

PORT PERRY

1ST FLOOR

160 ROSA STREET PORT PERRY, ON, L9L 1L7 DURHAM DISTRICT SCHOOL BOARD

DRAWING:

ELECTRICAL PLAN GROUND FLOOR



BARRY BRY ASSOCIATE
Architects Engineers Project Manager

250 Water Street Suite 201 Whitby, Ontario L1N 0G5

NOVEMBER 2024 1:250

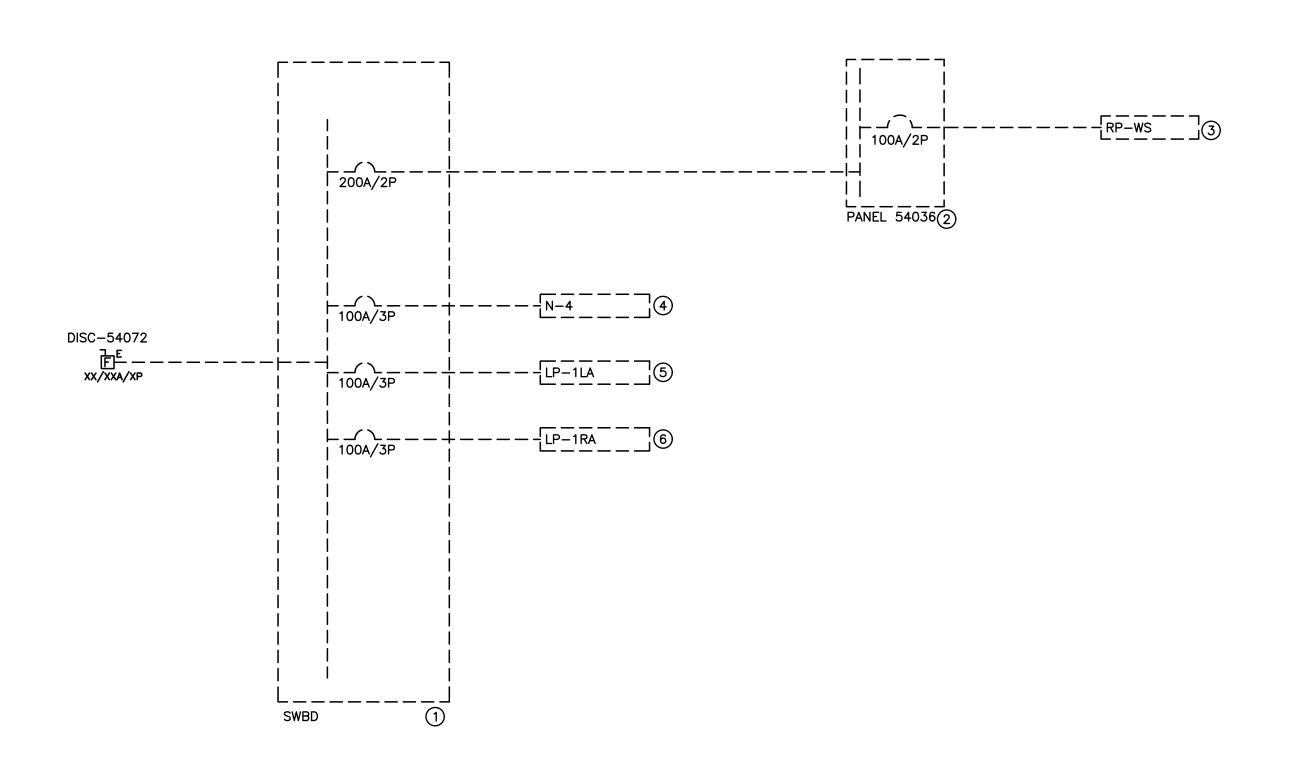
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E-2.1



- 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 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 NOT USED.
- 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.

- 1 EXISTING SWITCH BOARD 120/208V/3PH/4W
- ② EXISTING RECEPTACLE PANEL 120/240V/1PH/3W/225A MAINS/42 CCT/SQ D NQOD/10KA RMS
- 3 EXISTING RECEPTACLE PANEL 120/240V/1PH/3W/100A MCB/42 CCT/SQ D NQ/10KA RMS
- 4 EXISTING RECEPTACLE PANEL 120/208V/3PH/4W/250A MAINS/30 CCT/SIEMENS S1/10KA RMS
- 5 EXISTING RECEPTACLE PANEL 120/208V/3PH/4W/100A MAINS/30 CCT/SQ D NQ/10KA RMS
- 6 EXISTING RECEPTACLE PANEL 120/208V/3PH/4W/225A MAINS/72 CCT/SQ D NQ/10KA RMS

DENOTES NEW PROVIDED BY ELECTRICAL CONTRACTOR

———— DENOTES EXISTING TO REMAIN

* * * * DENOTES EXISTING TO BE REMOVED BY ELECTRICAL CONTRACTOR

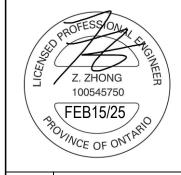
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3.	ISSUED FOR TENDER	FEB12/25	KZ





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

PROJECT:

PORT PERRY

1ST FLOOR

160 ROSA STREET PORT PERRY, ON, L9L 1L7 DURHAM DISTRICT SCHOOL BOARD

DRAWING:

ELECTRICAL SINGLE LINE DIAGRAM



BARRY BRYAN ASSOCIATES Architects Engineers

Project Managers 250 Water Street

Suite 201 Whitby, Ontario L1N 0G5 Tel: (905) 666-5252

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

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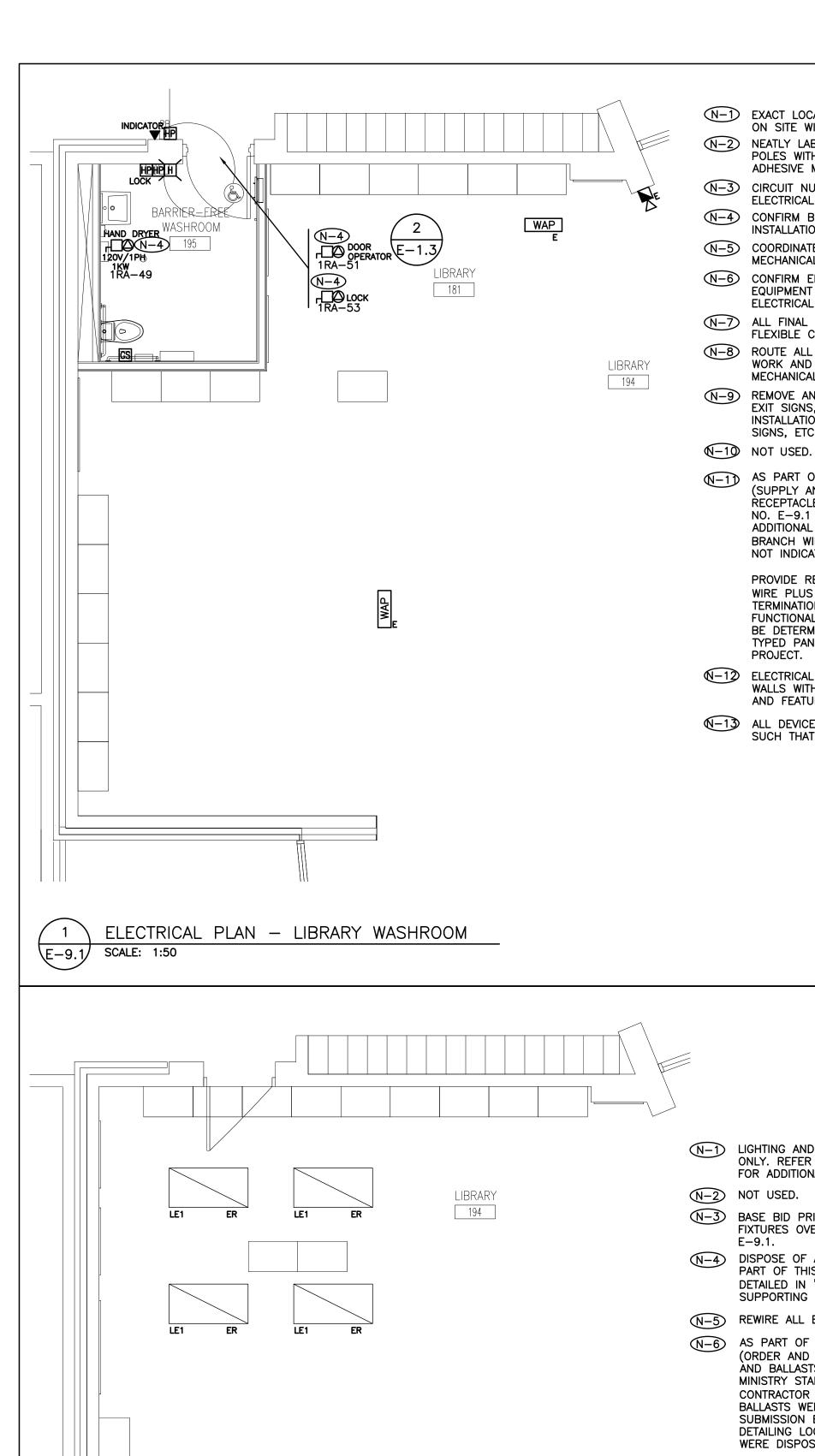
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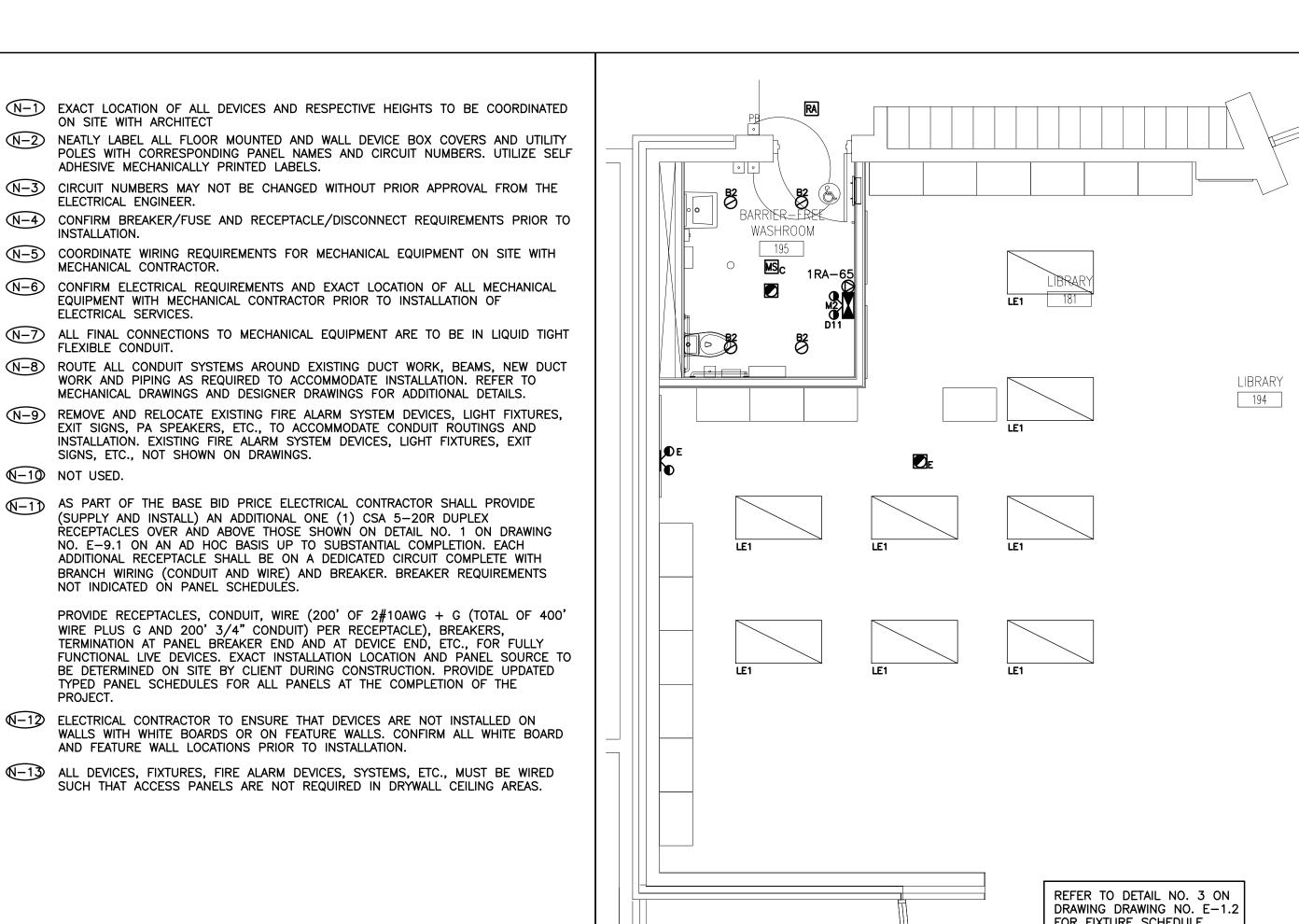
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FOR FIXTURE SCHEDULE.

REFLECTED CEILING DEMOLITION PLAN - LIBRARY WASHROOM

\E-9.1/

SCALE: 1:50



FOR FIXTURE SCHEDULE. REFLECTED CEILING PLAN - LIBRARY WASHROOM (E-9.1) SCALE: 1:50

N-1) REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATION AND HEIGHTS FOR MOUNTING OF FIXTURES, OCCUPANCY SENSORS, PHOTOCELL SENSORS, LIGHT

N-2 PROVIDE NEW LIGHTING FIXTURES, EXIT SIGNS, SWITCHES, OCCUPANCY SENSORS, ETC., TO SUIT NEW REFLECTED CEILING PLAN.

N-3 COORDINATE INSTALLATION OF FIXTURES WITH MECHANICAL EQUIPMENT, ELECTRICAL

EQUIPMENT, SPRINKLERS AND DUCT WORK. (N-4) CHAIN HANG ALL NEW FIXTURES PROVIDED AS PART OF THIS SCOPE OF WORK IN FINISHED CEILING AREAS FROM SLAB (RETROFIT FIXTURES ACCORDINGLY).

N-5 ELECTRICAL CONTRACTOR TO ENSURE THAT DEVICES ARE NOT INSTALLED ON WALLS WITH WHITE BOARDS OR ON FEATURE WALLS. CONFIRM WHITE BOARD AND FEATURE WALL LOCATIONS PRIOR TO INSTALLATION.

N-6 ELECTRICAL CONTRACTOR SHALL REMOVE AND REINSTALL EXISTING FIXTURES THROUGHOUT THE FLOOR AS REQUIRED TO ACCOMMODATE INSTALLATION OF CONDUITS PROVIDED AS PART OF THIS SCOPE OF WORK.

N-7 ALL SWITCHES PROVIDED AS PART OF THIS SCOPE OF WORK TO BE ALIGNED WITH THERMOSTATS.

N-8 AS PART OF THIS SCOPE OF WORK EMPLOY AND PAY FOR THE SERVICES OF A CERTIFIED WATT STOPPER SERVICE CONSULTANT TO COMMISSION ALL OCCUPANCY SENSORS PROVIDED AS PART OF THIS SCOPE OF WORK. COMMISSIONING AND DOCUMENTATION SHALL BE COMPLETED; DETAILED AS REQUIRED TO DEMONSTRATE LEED COMPLIANCE.

N-9 SWITCH/DIMMING LEGS SHALL BE WIRED SUCH THAT LEG IS CONTROLLED BY OCCUPÁNCY SENSORS IN RESPECTIVE SPACE ENCLOSED BY CEILING HEIGHT PARTITIONS. OPERATION OF SAME LIGHT BRANCH CIRCUIT IN ADJACENT AREAS/ROOMS SHALL NOT AFFECT OPERATION OF LIGHTING IN RESPECTIVE AREA.

N-10 CEILING MOUNTED OCCUPANCY SENSORS PROVIDED AS PART OF THIS SCOPE OF WORK MUST BE INSTALLED AT LEAST 6' AWAY FROM ALL SUPPLY AIR DIFFUSERS AND RETURN AIR GRILLS. COORDINATE EXACT INSTALLATION LOCATION WITH WATTSTOPPER SERVICE CONSULTANT AND MECHANICAL CONTRACTOR PRIOR TO COMMENCING WORK.

(N-1) CEILING MOUNTED OCCUPANCY SENSORS IN ROOMS WITH DLM CONTROL TO BE PROGRAMMED SUCH THAT THE FUNCTION OF AUTO-ON IS DISABLED. ALL LIGHT FIXTURES WITHIN RESPECTIVE ENCLOSED SPACES SHALL BE TURNED ON MANUALLY THROUGH LOW VOLTAGE OVERRIDE SWITCHES PROVIDED AS PART OF THIS SCOPE OF WORK UNLESS INDICATED OTHERWISE.

N-12 AS PART OF THIS SCOPE OF WORK ELECTRICAL CONTRACTOR TO HAVE WATT STOPPER SERVICE CONSULTANT ONSITE AFTER LIGHTING AND HVAC INSTALLATION IS COMPLETE AND PRIOR TO INSTALLATION OF SENSORS PROVIDED AS PART OF THIS SCOPE OF WORK TO CONFIRM PLACEMENT OF SENSORS.

(N-13) ELECTRICAL CONTRACTOR SHALL REMOVE AND REINSTALL EXISTING FIXTURES, FIRE ALARM SYSTEM DEVICES, ETC. THROUGHOUT THE FLOOR AS REQUIRED TO ACCOMMODATE INSTALLATION OF DUCT WORK AND MECHANICAL EQUIPMENT, ETC. PROVIDED BY DIVISION 15. COORDINATE EXACT REQUIREMENTS ON SITE WITH MECHANICAL CONTRACTOR.

N-14 REUTILIZE EXISTING LIGHTING CIRCUITS UNLESS DENOTED OTHERWISE.

√15 UTILIZE CCT #1RA-65 (DC SOURE M1) TO POWER EXIT SIGN AC BULBS AND 24 HOUR LIGHTING.

N-16 REWIRE AND EXTEND EXISTING AC AND DC WIRING TO ALL EXISTING TO REMAIN REMOTE HEADS AND EXIT SIGNS AS REQUIRED TO ENSURE CONTINUITY OF SERVICES. EXISTING TO REMAIN REMOTE HEADS AND EXIT SIGNS NOT SHOWN ON DRAWING.

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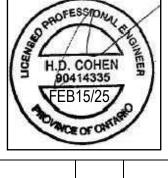
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DATE BY

HCC ENGINEERING DESIGN AND TECHNOLOGY SERVICES GROUP HCC ENGINEERING LIMITED 40 EGLINTON AVENUE EAST, SUITE 600

TORONTO, ONTARIO, M4P 3A2 Tel: (416) 932-2423

PROJECT:

NO. REVISIONS

PORT PERRY

1ST FLOOR

160 ROSA STREET PORT PERRY, ON, L9L 1L7 DURHAM DISTRICT SCHOOL BOARD

DRAWING:

ELECTRICAL PLANS -LIBRARY WASHROOM



BARRY BRYAN **ASSOCIATES** Architects Engineers Project Managers 250 Water Street

Suite 201 Whitby, Ontario L1N 0G5 Tel: (905) 666-5252

NOVEMBER 2024 AS SHOWN Fax: (905) 666-5256 e-mail: bba@bba-archeng.com FILE:

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DRAWN BY:

CHECKED BY: HDC

DOC_CONTROL:

% COMPLETE:

PROJECT NO: DRAWING NO:

2427 E-9.1

(N-1) LIGHTING AND FIRE ALARM LAYOUT SHOWS EXISTING REFLECTED CEILING PLAN ONLY. REFER TO DETAIL NO. 2 ON DRAWING NO. E-9.1 FOR NEW LAYOUT AND FOR ADDITIONAL DEMOLITION REQUIREMENTS. N-3) BASE BID PRICE SHALL INCLUDE FOR THE REMOVAL OF ONE (1) ADDITIONAL FIXTURES OVER AND ABOVE THOSE SHOWN ON DETAIL NO. 3 ON DRAWING NO.

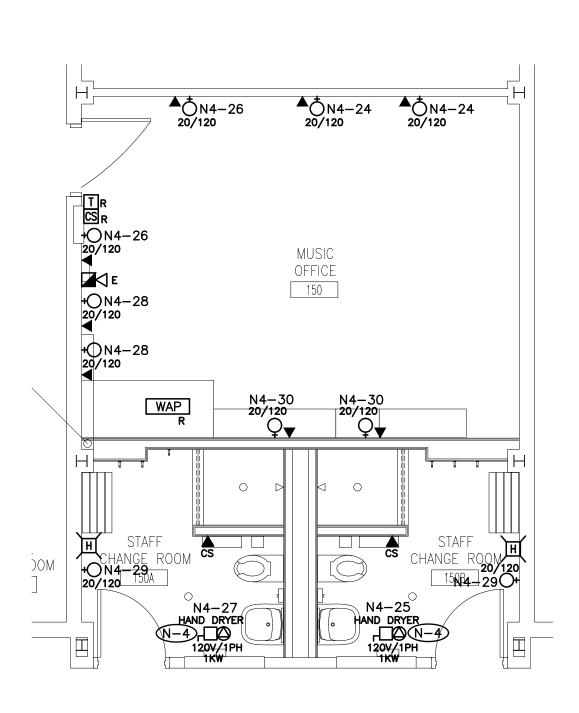
N-4) DISPOSE OF ALL FIXTURES (EXCLUDING BASE BUILDING FIXTURES) REMOVED AS PART OF THIS SCOPE OF WORK. RECYCLE ALL APPLICABLE COMPOUNDS AS DETAILED IN 'GREEN MEASURES' REQUIREMENTS. PROVIDE DOCUMENTATION

N-6 AS PART OF THIS SCOPE OF WORK ELECTRICAL CONTRACTOR MUST PROCURE (ORDER AND PAY FOR) THE SERVICES OF AEVITAS TO DISPOSE OF ALL LAMPS MINISTRY STANDARDS AND ENVIRONMENTALLY SAFE METHODS. ELECTRICAL SUBMISSION BY THE ELECTRICAL CONTRACTOR SHALL INCLUDE THE WAYBILL

SUPPORTING RECYCLING MEASURES.

N-5 REWIRE ALL EXISTING TO REMAIN FIXTURES TO ENSURE CONTINUITY OF SERVICES.

ÀND BALLASTS REMOVÉD AS PART OF THIS SCOPE OF WORK IN COMPLIANCE WITH CONTRACTOR SHALL PROVIDE A SUBMISSION (LETTER) STATING THAT LAMPS AND BALLASTS WERE DISPOSED OF THROUGH ENVIRONMENTALLY SAFE METHODS. THE DETAILING LOCATION OF DISPOSAL AND QUANTITY OF LAMPS AND BALLASTS THAT WERE DISPOSED.



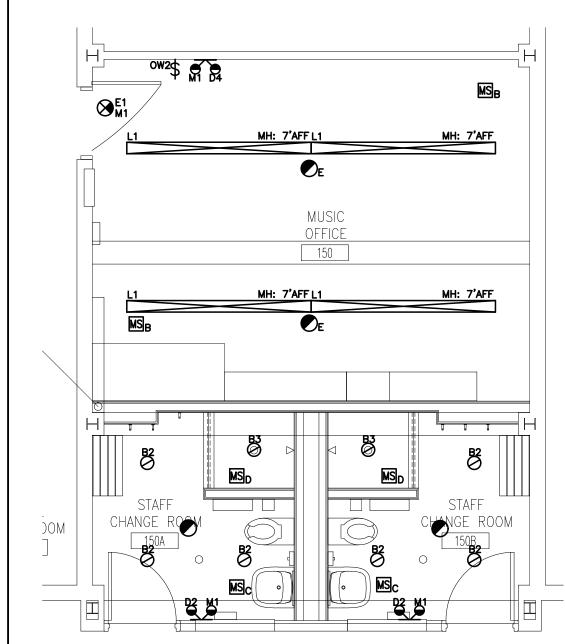
- N-1) EXACT LOCATION OF ALL DEVICES AND RESPECTIVE HEIGHTS TO BE COORDINATED ON SITE WITH ARCHITECT
- N-2) NEATLY LABEL ALL FLOOR MOUNTED AND WALL DEVICE BOX COVERS AND UTILITY POLES WITH CORRESPONDING PANEL NAMES AND CIRCUIT NUMBERS. UTILIZE SELF ADHESIVE MECHANICALLY PRINTED LABELS.
- N-3 CIRCUIT NUMBERS MAY NOT BE CHANGED WITHOUT PRIOR APPROVAL FROM THE ELECTRICAL ENGINEER.
- N-4 CONFIRM BREAKER/FUSE AND RECEPTACLE/DISCONNECT REQUIREMENTS PRIOR TO
- N-5 COORDINATE WIRING REQUIREMENTS FOR MECHANICAL EQUIPMENT ON SITE WITH MECHANICAL CONTRACTOR. (N-6) CONFIRM ELECTRICAL REQUIREMENTS AND EXACT LOCATION OF ALL MECHANICAL
- EQUIPMENT WITH MECHANICAL CONTRACTOR PRIOR TO INSTALLATION OF ELECTRICAL SERVICES. N-7) ALL FINAL CONNECTIONS TO MECHANICAL EQUIPMENT ARE TO BE IN LIQUID TIGHT
- FLEXIBLE CONDUIT. N-8 ROUTE ALL CONDUIT SYSTEMS AROUND EXISTING DUCT WORK, BEAMS, NEW DUCT WORK AND PIPING AS REQUIRED TO ACCOMMODATE INSTALLATION. REFER TO
- (N-9) REMOVE AND RELOCATE EXISTING FIRE ALARM SYSTEM DEVICES, LIGHT FIXTURES. EXIT SIGNS, PA SPEAKERS, ETC., TO ACCOMMODATE CONDUIT ROUTINGS AND INSTALLATION. EXISTING FIRE ALARM SYSTEM DEVICES, LIGHT FIXTURES, EXIT SIGNS, ETC., NOT SHOWN ON DRAWINGS.

MECHANICAL DRAWINGS AND DESIGNER DRAWINGS FOR ADDITIONAL DETAILS.

- $(\sqrt{-10})$ NOT USED.
- (N-1) AS PART OF THE BASE BID PRICE ELECTRICAL CONTRACTOR SHALL PROVIDE (SUPPLY AND INSTALL) AN ADDITIONAL ONE (1) CSA 5-20R DUPLEX RECEPTACLES OVER AND ABOVE THOSE SHOWN ON DETAIL NO. 1 ON DRAWING NO. E-9.2 ON AN AD HOC BASIS UP TO SUBSTANTIAL COMPLETION. EACH ADDITIONAL RECEPTACLE SHALL BE ON A DEDICATED CIRCUIT COMPLETE WITH BRANCH WIRING (CONDUIT AND WIRE) AND BREAKER. BREAKER REQUIREMENTS NOT INDICATED ON PANEL SCHEDULÉS.

PROVIDE RECEPTACLES, CONDUIT, WIRE (200' OF 2#10AWG + G (TOTAL OF 400' WIRE PLUS G AND 200' 3/4" CONDUIT) PER RECEPTACLE). BREAKERS. TERMINATION AT PANEL BREAKER END AND AT DEVICE END, ETC., FOR FULLY FUNCTIONAL LIVE DEVICES. EXACT INSTALLATION LOCATION AND PANEL SOURCE TO BE DETERMINED ON SITE BY CLIENT DURING CONSTRUCTION. PROVIDE UPDATED TYPED PANEL SCHEDULES FOR ALL PANELS AT THE COMPLETION OF THE

- №—12 ELECTRICAL CONTRACTOR TO ENSURE THAT DEVICES ARE NOT INSTALLED ON WALLS WITH WHITE BOARDS OR ON FEATURE WALLS. CONFIRM ALL WHITE BOARD AND FEATURE WALL LOCATIONS PRIOR TO INSTALLATION.
- №—13) ALL DEVICES, FIXTURES, FIRE ALARM DEVICES, SYSTEMS, ETC., MUST BE WIRED SUCH THAT ACCESS PANELS ARE NOT REQUIRED IN DRYWALL CEILING AREAS.



REFER TO DETAIL NO. 3 ON DRAWING DRAWING NO. E-1.2 FOR FIXTURE SCHEDULE.

REFLECTED CEILING PLAN - STAFF WASHROOMS

2 X RA 150A

\E-9.2/ SCALE: 1:50

RA MUSIC OFFICE 2 X RA 150R

- N-1) REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATION AND HEIGHTS FOR MOUNTING OF FIXTURES, OCCUPANCY SENSORS, PHOTOCELL SENSORS, LIGHT SWITCHES, ETC.
- N-2) PROVIDE NEW LIGHTING FIXTURES, EXIT SIGNS, SWITCHES, OCCUPANCY SENSORS, ETC., TO SUIT NEW REFLECTED CEILING PLAN.
- N-3) COORDINATE INSTALLATION OF FIXTURES WITH MECHANICAL EQUIPMENT, ELECTRICAL
- EQUIPMENT, SPRINKLERS AND DUCT WORK. (N-4) CHAIN HANG ALL NEW FIXTURES PROVIDED AS PART OF THIS SCOPE OF WORK IN
- FINISHED CEILING AREAS FROM SLAB (RETROFIT FIXTURES ACCORDINGLY). (N-5) ELECTRICAL CONTRACTOR TO ENSURE THAT DEVICES ARE NOT INSTALLED ON WALLS WITH WHITE BOARDS OR ON FEATURE WALLS. CONFIRM WHITE BOARD AND
- FEATURE WALL LOCATIONS PRIOR TO INSTALLATION. N-6 ELECTRICAL CONTRACTOR SHALL REMOVE AND REINSTALL EXISTING FIXTURES THROUGHOUT THE FLOOR AS REQUIRED TO ACCOMMODATE INSTALLATION OF
- N-7 ALL SWITCHES PROVIDED AS PART OF THIS SCOPE OF WORK TO BE ALIGNED WITH THERMOSTATS.

CONDUITS PROVIDED AS PART OF THIS SCOPE OF WORK.

- N-8) AS PART OF THIS SCOPE OF WORK EMPLOY AND PAY FOR THE SERVICES OF A CERTIFIED WATT STOPPER SERVICE CONSULTANT TO COMMISSION ALL OCCUPANCY SENSORS PROVIDED AS PART OF THIS SCOPE OF WORK. COMMISSIONING AND DOCUMENTATION SHALL BE COMPLETED; DETAILED AS REQUIRED TO DEMONSTRATE LEED COMPLIANCE.
- N-9 SWITCH/DIMMING LEGS SHALL BE WIRED SUCH THAT LEG IS CONTROLLED BY OCCUPÁNCY SENSORS IN RESPECTIVE SPACE ENCLOSED BY CEILING HEIGHT PARTITIONS. OPERATION OF SAME LIGHT BRANCH CIRCUIT IN ADJACENT AREAS/ROOMS SHALL NOT AFFECT OPERATION OF LIGHTING IN RESPECTIVE AREA.
- (V-1) CEILING MOUNTED OCCUPANCY SENSORS PROVIDED AS PART OF THIS SCOPE OF WORK MUST BE INSTALLED AT LEAST 6' AWAY FROM ALL SUPPLY AIR DIFFUSERS AND RETURN AIR GRILLS. COORDINATE EXACT INSTALLATION LOCATION WITH WATTSTOPPER SERVICE CONSULTANT AND MECHANICAL CONTRACTOR PRIOR TO COMMENCING WORK.
- (N-1) CEILING MOUNTED OCCUPANCY SENSORS IN ROOMS WITH DLM CONTROL TO BE PROGRAMMED SUCH THAT THE FUNCTION OF AUTO-ON IS DISABLED. ALL LIGHT FIXTURES WITHIN RESPECTIVE ENCLOSED SPACES SHALL BE TURNED ON MANUALLY THROUGH LOW VOLTAGE OVERRIDE SWITCHES PROVIDED AS PART OF THIS SCOPE OF WORK UNLESS INDICATED OTHERWISE.
- N-12 AS PART OF THIS SCOPE OF WORK ELECTRICAL CONTRACTOR TO HAVE WATT STOPPER SERVICE CONSULTANT ONSITE AFTER LIGHTING AND HVAC INSTALLATION IS COMPLETE AND PRIOR TO INSTALLATION OF SENSORS PROVIDED AS PART OF THIS SCOPE OF WORK TO CONFIRM PLACEMENT OF SENSORS.
- (N-13) ELECTRICAL CONTRACTOR SHALL REMOVE AND REINSTALL EXISTING FIXTURES, FIRE ALARM SYSTEM DEVICES, ETC. THROUGHOUT THE FLOOR AS REQUIRED TO ACCOMMODATE INSTALLATION OF DUCT WORK AND MECHANICAL EQUIPMENT, ETC. PROVIDED BY DIVISION 15. COORDINATE EXACT REQUIREMENTS ON SITE WITH MECHANICAL CONTRACTOR.
- (N-14) REUTILIZE EXISTING LIGHTING CIRCUITS UNLESS DENOTED OTHERWISE.

(N-1) LIGHTING AND FIRE ALARM LAYOUT SHOWS EXISTING REFLECTED CEILING PLAN

N-3 BASE BID PRICE SHALL INCLUDE FOR THE REMOVAL OF ONE (1) ADDITIONAL

N-4 DISPOSE OF ALL FIXTURES (EXCLUDING BASE BUILDING FIXTURES) REMOVED AS

FOR ADDITIONAL DEMOLITION REQUIREMENTS.

SUPPORTING RECYCLING MEASURES.

WERE DISPOSED.

ONLY. REFER TO DETAIL NO. 2 ON DRAWING NO. E-9.2 FOR NEW LAYOUT AND

FIXTURES OVER AND ABOVE THOSE SHOWN ON DETAIL NO. 4 ON DRAWING NO.

PART OF THIS SCOPE OF WORK. RECYCLE ALL APPLICABLE COMPOUNDS AS

(ORDER AND PAY FOR) THE SERVICES OF AEVITAS TO DISPOSE OF ALL LAMPS

CONTRACTOR SHALL PROVIDE A SUBMISSION (LETTER) STATING THAT LAMPS AND

DETAILING LOCATION OF DISPOSAL AND QUANTITY OF LAMPS AND BALLASTS THAT

BALLASTS WERE DISPOSED OF THROUGH ENVIRONMENTALLY SAFE METHODS. THE

AND BALLASTS REMOVED AS PART OF THIS SCOPE OF WORK IN COMPLIANCE WITH

DETAILED IN 'GREEN MEASURES' REQUIREMENTS. PROVIDE DOCUMENTATION

N-5 REWIRE ALL EXISTING TO REMAIN FIXTURES TO ENSURE CONTINUITY OF SERVICES.

MINISTRY STANDARDS AND ENVIRONMENTALLY SAFE METHODS. ELECTRICAL

SUBMISSION BY THE ELECTRICAL CONTRACTOR SHALL INCLUDE THE WAYBILL

(N-6) AS PART OF THIS SCOPE OF WORK ELECTRICAL CONTRACTOR MUST PROCURE

(N-15) NOT USED.

(N-2) NOT USED.

√16 REWIRE AND EXTEND EXISTING AC AND DC WIRING TO ALL EXISTING TO REMAIN REMOTE HEADS AND EXIT SIGNS AS REQUIRED TO ENSURE CONTINUITY OF SERVICES. EXISTING TO REMAIN REMOTE HEADS AND EXIT SIGNS NOT SHOWN ON DRAWING.

Ignite Learning NO. ISSUES DATE BY NOV21/24 KD ISSUED FOR REVIEW ISSUED FOR REVIEW JAN23/25 KZ FEB12/25 KZ ISSUED FOR TENDER

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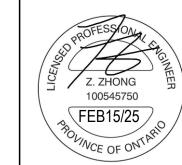
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DATE BY NO. REVISIONS

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

PROJECT:

PORT PERRY

1ST FLOOR

160 ROSA STREET PORT PERRY, ON, L9L 1L7 DURHAM DISTRICT SCHOOL BOARD

DRAWING:

ELECTRICAL PLANS -STAFF WC SUITES AND **MUSIC OFFICE**



BARRY BRYAN **ASSOCIATES** Architects Engineers Project Managers 250 Water Street

Whitby, Ontario

Suite 201

% COMPLETE: DRAWN BY: CHECKED BY: HDC **NOVEMBER 2024**

DESIGN BY:

DOC_CONTROL:

L1N 0G5 Tel: (905) 666-5252 Fax: (905) 666-5256 e-mail: bba@bba-archeng.com

AS SHOWN FILE:

DRAWING NO: E-9.2

2427

PROJECT NO:

(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.

N-2) REMOVE ALL ABANDONED ZONE CONDUITS INCLUDING THOSE IN CEILING SPACE. EXISTING ZONE CONDUITS NOT SHOWN ON DRAWING.

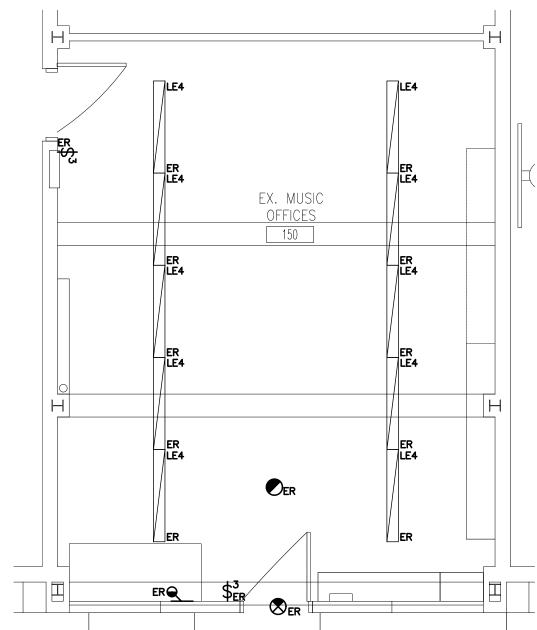
(N-3) DO NOT REUSE ANY DEVICES, BACKBOXES, CONTROL SYSTEMS, ETC REMOVED AS

PART OF THIS SCOPE OF WORK. N-4 BASE BID PRICE SHALL INCLUDE FOR THE REMOVAL OF TWO (2) ADDITIONAL RECEPTACLES, COMMUNICATIONS ROUGH-INS, ETC. OVER AND ABOVE THOSE SHOWN ON THIS DRAWING. REFER TO SPECIFICATIONS FOR ADDITIONAL

N-5) REWIRE ALL EXISTING TO REMAIN DEVICES AS REQUIRED TO ENSURE CONTINUITY OF SERVICES. EXISTING TO REMAIN DEVICES NOT SHOWN ON DRAWING.

REQUIREMENTS.

(1) EXISTING WALL MOUNTED RACEWAY TO BE REMOVED AS PART OF THIS SCOPE OF



REFER TO DETAIL NO. 3 ON DRAWING DRAWING NO. E-1.2 FOR FIXTURE SCHEDULE.

REFLECTED CEILING DEMOLITION PLAN - STAFF WASHROOMS E-9.2 SCALE: 1:50

⊕ ⊈ER \Rightarrow WAP ER

ELECTRICAL PLAN - STAFF WASHROOMS

ER FRIDGE ER

EX. MUSIC

OFFICES

150

\E-9.2/ SCALE: 1:50

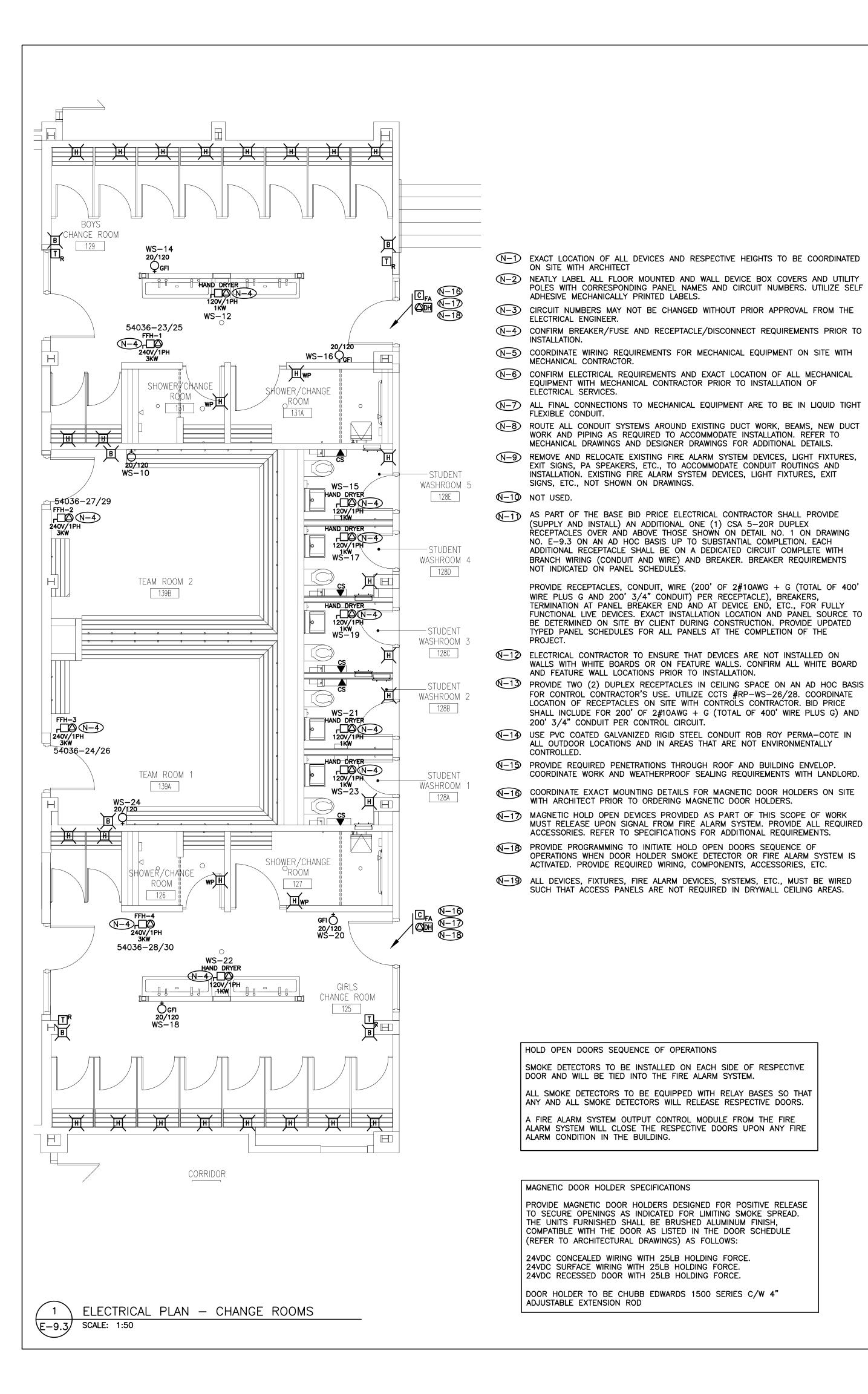
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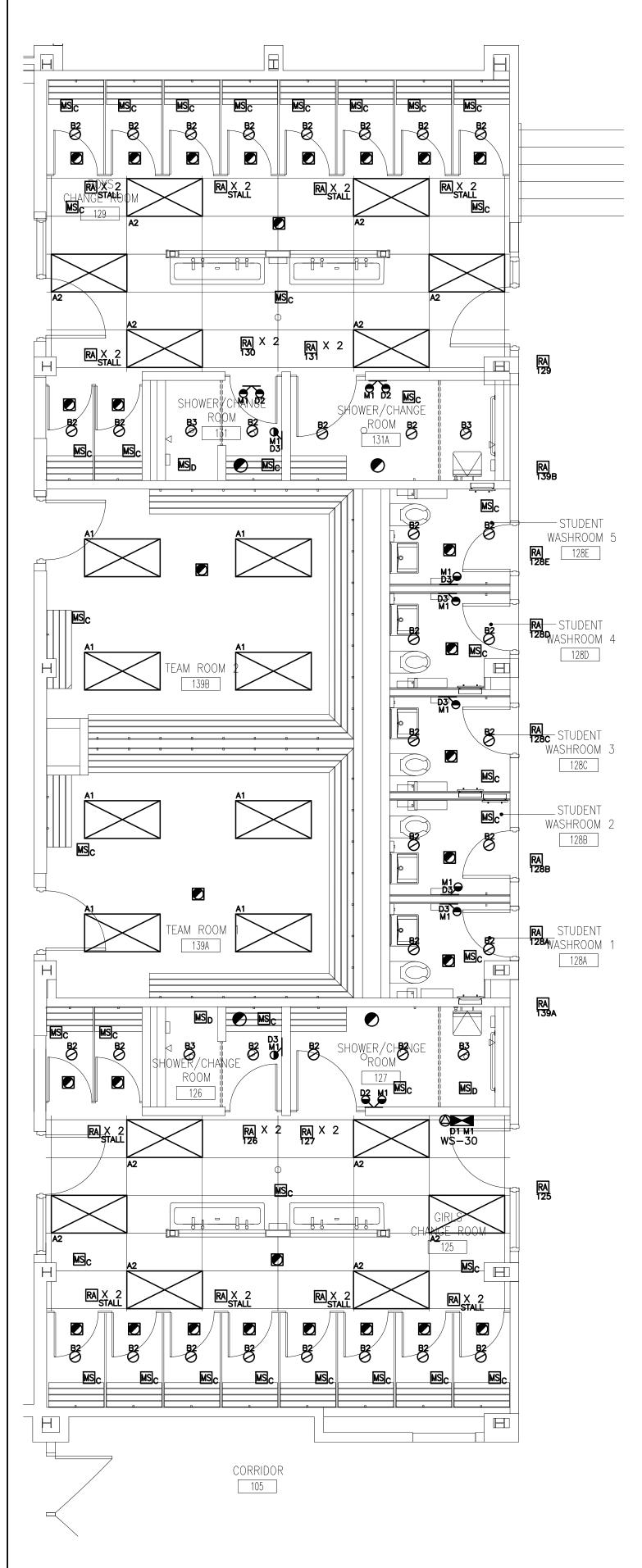
√ER

ELECTRICAL DEMOLITION PLAN - STAFF WASHROOMS

SCALE: 1:50

\E−9.2/





- REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATION AND HEIGHTS FOR MOUNTING OF FIXTURES, OCCUPANCY SENSORS, PHOTOCELL SENSORS, LIGHT SWITCHES, ETC.
- N-2) PROVIDE NEW LIGHTING FIXTURES, EXIT SIGNS, SWITCHES, OCCUPANCY SENSORS,
- (N-3) COORDINATE INSTALLATION OF FIXTURES WITH MECHANICAL EQUIPMENT, ELECTRICAL EQUIPMENT, SPRINKLERS AND DUCT WORK.
- (N-4) CHAIN HANG ALL NEW FIXTURES PROVIDED AS PART OF THIS SCOPE OF WORK IN FINISHED CEILING AREAS FROM SLAB (RETROFIT FIXTURES ACCORDINGLY).
- N-5 ELECTRICAL CONTRACTOR TO ENSURE THAT DEVICES ARE NOT INSTALLED ON WALLS WITH WHITE BOARDS OR ON FEATURE WALLS. CONFIRM WHITE BOARD AND
- N-8 AS PART OF THIS SCOPE OF WORK EMPLOY AND PAY FOR THE SERVICES OF A CERTIFIED WATT STOPPER SERVICE CONSULTANT TO COMMISSION ALL OCCUPANCY SENSORS PROVIDED AS PART OF THIS SCOPE OF WORK. COMMISSIONING AND DOCUMENTATION SHALL BE COMPLETED; DETAILED AS REQUIRED TO DEMONSTRATE LEED COMPLIANCE.
- N-9 SWITCH/DIMMING LEGS SHALL BE WIRED SUCH THAT LEG IS CONTROLLED BY OCCUPANCY SENSORS IN RESPECTIVE SPACE ENCLOSED BY CEILING HEIGHT PARTITIONS. OPERATION OF SAME LIGHT BRANCH CIRCUIT IN ADJACENT
- √-10 CEILING MOUNTED OCCUPANCY SENSORS PROVIDED AS PART OF THIS SCOPE OF WORK MUST BE INSTALLED AT LEAST 6' AWAY FROM ALL SUPPLY AIR DIFFUSERS AND RETURN AIR GRILLS. COORDINATE EXACT INSTALLATION LOCATION WITH WATTSTOPPER SERVICE CONSULTANT AND MECHANICAL CONTRACTOR PRIOR TO
- (1) CEILING MOUNTED OCCUPANCY SENSORS IN ROOMS WITH DLM CONTROL TO BE PROGRAMMED SUCH THAT THE FUNCTION OF AUTO-ON IS DISABLED. ALL LIGHT FIXTURES WITHIN RESPECTIVE ENCLOSED SPACES SHALL BE TURNED ON MANUALLY THROUGH LOW VOLTAGE OVERRIDE SWITCHES PROVIDED AS PART OF
- √-12) AS PART OF THIS SCOPE OF WORK ELECTRICAL CONTRACTOR TO HAVE WATT STOPPER SERVICE CONSULTANT ONSITE AFTER LIGHTING AND HVAC INSTALLATION IS COMPLETE AND PRIOR TO INSTALLATION OF SENSORS PROVIDED AS PART OF THIS SCOPE OF WORK TO CONFIRM PLACEMENT OF SENSORS
- √-13 ELECTRICAL CONTRACTOR SHALL REMOVE AND REINSTALL EXISTING FIXTURES, FIRE ALARM SYSTEM DEVICES, ETC. THROUGHOUT THE FLOOR AS REQUIRED TO ACCOMMODATE INSTALLATION OF DUCT WORK AND MECHANICAL EQUIPMENT, ETC. PROVIDED BY DIVISION 15. COORDINATE EXACT REQUIREMENTS ON SITE WITH MECHANICAL CONTRACTOR.
- € UTILIZE CCT #WS-30 (DC SOURE M1) TO POWER EXIT SIGN AC BULBS AND 24 HOUR LIGHTING.
- √N-16) REWIRE AND EXTEND EXISTING AC AND DC WIRING TO ALL EXISTING TO REMAIN REMOTE HEADS AND EXIT SIGNS AS REQUIRED TO ENSURE CONTINUITY OF

REFER TO DETAIL NO. 3 ON DRAWING DRAWING NO. E-1.2 FOR FIXTURE SCHEDULE.

ETC., TO SUIT NEW REFLECTED CEILING PLAN.

FEATURE WALL LOCATIONS PRIOR TO INSTALLATION.

- N-6 ELECTRICAL CONTRACTOR SHALL REMOVE AND REINSTALL EXISTING FIXTURES THROUGHOUT THE FLOOR AS REQUIRED TO ACCOMMODATE INSTALLATION OF CONDUITS PROVIDED AS PART OF THIS SCOPE OF WORK.
- N-7) ALL SWITCHES PROVIDED AS PART OF THIS SCOPE OF WORK TO BE ALIGNED WITH THERMOSTATS.
- AREAS/ROOMS SHALL NOT AFFECT OPERATION OF LIGHTING IN RESPECTIVE AREA.
- COMMENCING WORK.
- THIS SCOPE OF WORK UNLESS INDICATED OTHERWISE.
- √14) REUTILIZE EXISTING LIGHTING CIRCUITS UNLESS DENOTED OTHERWISE.
- SERVICES. EXISTING TO REMAIN REMOTE HEADS AND EXIT SIGNS NOT SHOWN ON

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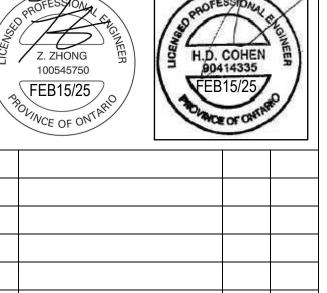
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HCC ENGINEERING DESIGN AND TECHNOLOGY SERVICES GROUP HCC ENGINEERING LIMITED 40 EGLINTON AVENUE EAST, SUITE 600 TORONTO, ONTARIO, M4P 3A2 Tel: (416) 932-2423

DATE BY

PROJECT:

NO. REVISIONS

PORT PERRY

1ST FLOOR

160 ROSA STREET PORT PERRY, ON, L9L 1L7 DURHAM DISTRICT SCHOOL BOARD

DRAWING:

ELECTRICAL PLANS -CHANGE ROOMS



BARRY BRYAN **ASSOCIATES** Architects Engineers Project Managers

Suite 201

PROJECT NO:

DRAWN BY: CHECKED BY: HDC 250 Water Street Whitby, Ontario **NOVEMBER 2024**

L1N 0G5 Tel: (905) 666-5252 Fax: (905) 666-5256 e-mail: bba@bba-archeng.com

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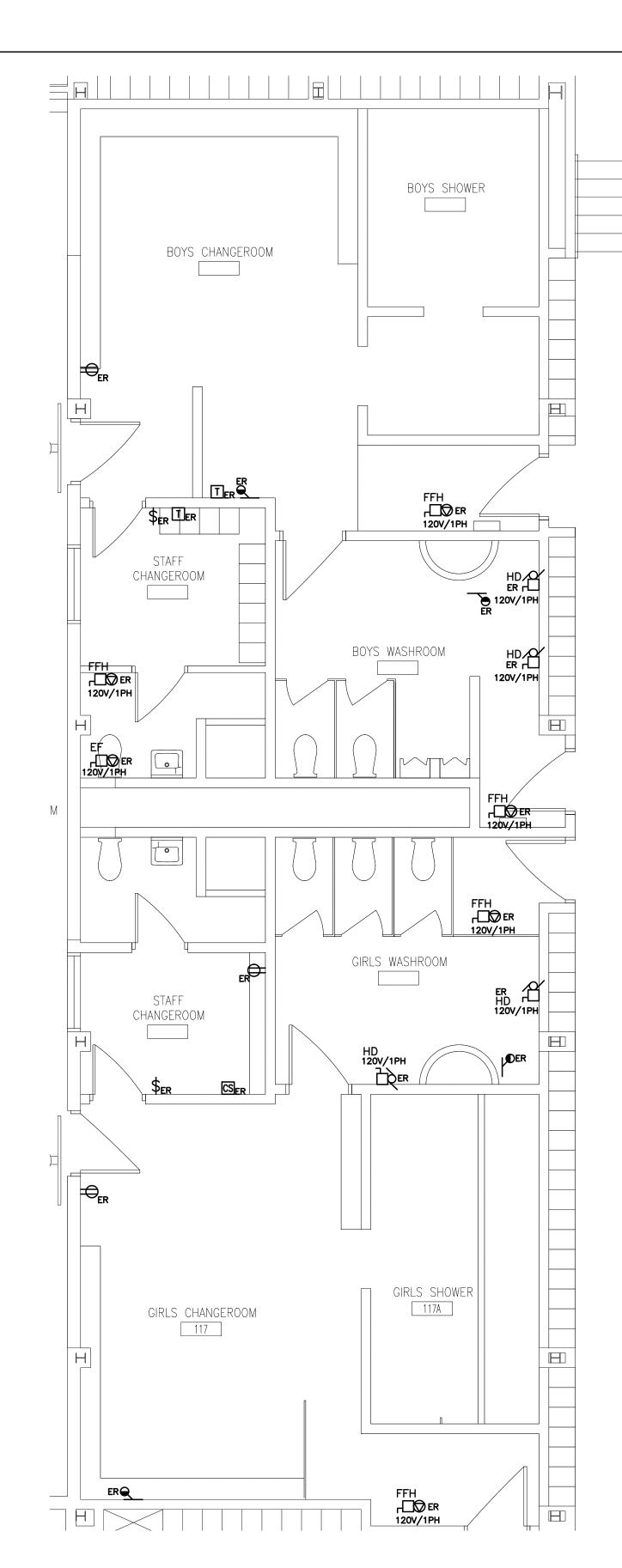
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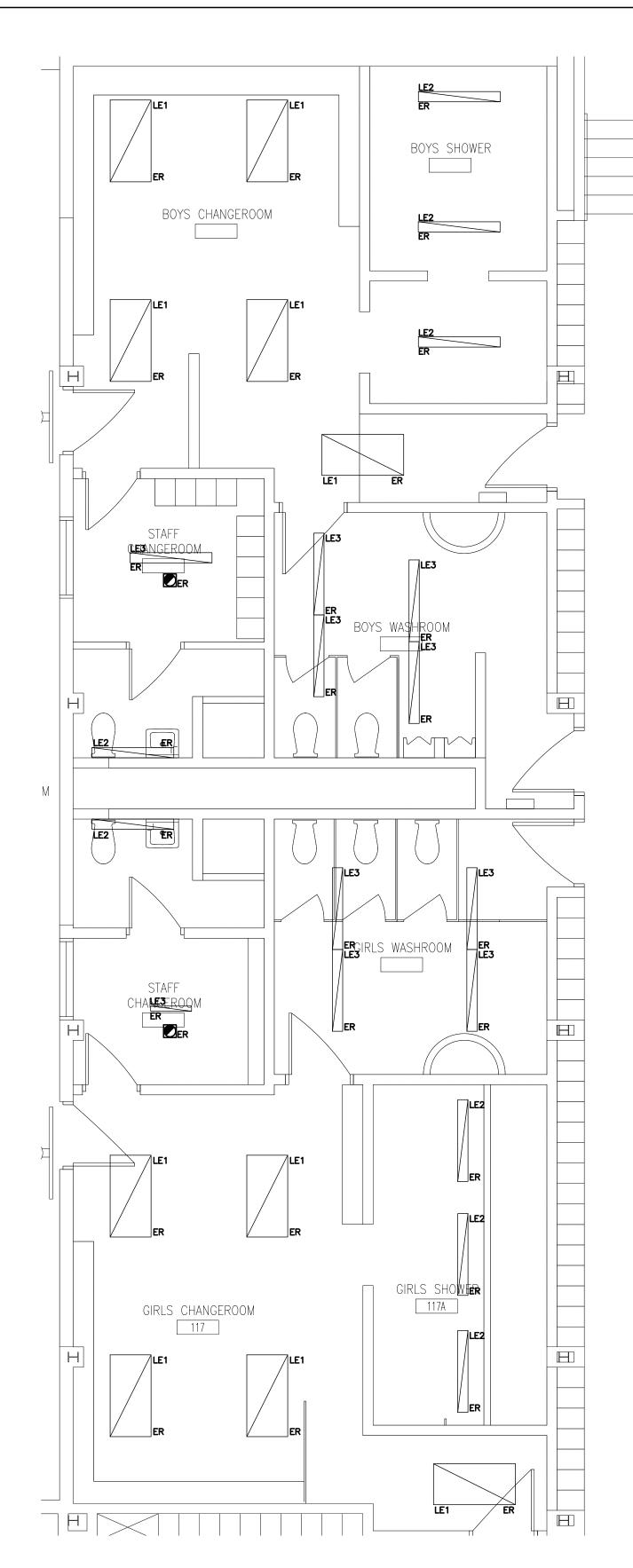
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E-9.3 2427

REFLECTED CEILING PLAN - CHANGE ROOMS E-9.3 SCALE: 1:50



- 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.
- N-2 REMOVE ALL ABANDONED ZONE CONDUITS INCLUDING THOSE IN CEILING SPACE. EXISTING ZONE CONDUITS NOT SHOWN ON DRAWING.
- N-3 DO NOT REUSE ANY DEVICES, BACKBOXES, CONTROL SYSTEMS, ETC REMOVED AS PART OF THIS SCOPE OF WORK.
- N-4 BASE BID PRICE SHALL INCLUDE FOR THE REMOVAL OF TWO (2) ADDITIONAL RECEPTACLES, COMMUNICATIONS ROUGH-INS, ETC. OVER AND ABOVE THOSE SHOWN ON THIS DRAWING. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
- N-5) REWIRE ALL EXISTING TO REMAIN DEVICES AS REQUIRED TO ENSURE CONTINUITY OF SERVICES. EXISTING TO REMAIN DEVICES NOT SHOWN ON DRAWING.



- N-1 LIGHTING AND FIRE ALARM LAYOUT SHOWS EXISTING REFLECTED CEILING PLAN ONLY. REFER TO DETAIL NO. 2 ON DRAWING NO. E-9.3 FOR NEW LAYOUT AND FOR ADDITIONAL DEMOLITION REQUIREMENTS.
- N-2 NOT USED.
- N-3 BASE BID PRICE SHALL INCLUDE FOR THE REMOVAL OF ONE (1) ADDITIONAL FIXTURES OVER AND ABOVE THOSE SHOWN ON DETAIL NO. 2 ON DRAWING NO.
- N-4 DISPOSE OF ALL FIXTURES (EXCLUDING BASE BUILDING FIXTURES) REMOVED AS PART OF THIS SCOPE OF WORK. RECYCLE ALL APPLICABLE COMPOUNDS AS DETAILED IN 'GREEN MEASURES' REQUIREMENTS. PROVIDE DOCUMENTATION SUPPORTING RECYCLING MEASURES.
- N-5) REWIRE ALL EXISTING TO REMAIN FIXTURES TO ENSURE CONTINUITY OF SERVICES.
- N-6 AS PART OF THIS SCOPE OF WORK ELECTRICAL CONTRACTOR MUST PROCURE (ORDER AND PAY FOR) THE SERVICES OF AEVITAS TO DISPOSE OF ALL LAMPS ÀND BALLASTS REMOVÉD AS PART OF THIS SCOPE OF WORK IN COMPLIANCE WITH MINISTRY STANDARDS AND ENVIRONMENTALLY SAFE METHODS. ELECTRICAL CONTRACTOR SHALL PROVIDE A SUBMISSION (LETTER) STATING THAT LAMPS AND BALLASTS WERE DISPOSED OF THROUGH ENVIRONMENTALLY SAFE METHODS. THE SUBMISSION BY THE ELECTRICAL CONTRACTOR SHALL INCLUDE THE WAYBILL DETAILING LOCATION OF DISPOSAL AND QUANTITY OF LAMPS AND BALLASTS THAT

REFER TO DETAIL NO. 3 ON DRAWING DRAWING NO. E-1.2 FOR FIXTURE SCHEDULE.

DO NOT SCALE THE DRAWINGS.

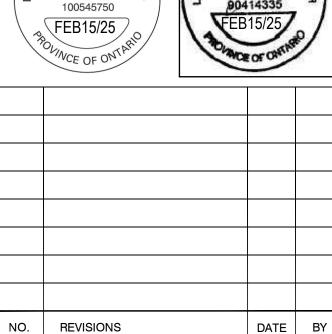
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PROJECT:

PORT PERRY

1ST FLOOR

160 ROSA STREET PORT PERRY, ON, L9L 1L7 DURHAM DISTRICT SCHOOL BOARD

DRAWING:

ELECTRICAL DEMOLITION PLANS -**CHANGE ROOMS**



ASSOCIATES Architects Engineers

Project Managers 250 Water Street Suite 201 Whitby, Ontario

HDC NOVEMBER 2024 AS SHOWN

DRAWN BY:

CHECKED BY:

% COMPLETE:

L1N 0G5 Tel: (905) 666-5252 Fax: (905) 666-5256 e-mail: bba@bba-archeng.com

E-9.4

PROJECT NO: 24271

REFLECTED CEILING DEMOLITION PLAN - CHANGE ROOMS

ELECTRICAL DEMOLITION PLAN - CHANGE ROOMS E-9.4 SCALE: 1:50

E-9.4 SCALE: 1:50