

NAME OF PRACTICE: GRGURIC ARCHITECTS INCORPORATED
CERTIFICATE OF PRACTICE NUMBER: 4760
CONTACT: JOHN GRGURIC
28 KING STREET EAST, UNIT B, STONEY CREEK, ON L8G 1J8
TEL: 905-664-8737
NAME OF PROJECT:
St. Marguerite d'Youville Catholic Elementary School
(1) SINGLE PORTABLE RELOCATED CLASSROOM ADDITION
LOCATION:
20 Bonaparte Way, Hamilton, ON L9B 2E3

Item	Ontario's 2024 Building Code Data Matrix Parts 3 or 9	OBC Reference	
		References are to Division B unless noted [A] for Division A or [C] for Division C	
1	Project Description: (1) SINGLE RELOCATED PORTABLE CLASSROOM ADDITION <input type="checkbox"/> Change of Use	<input type="checkbox"/> New <input checked="" type="checkbox"/> Addition <input type="checkbox"/> Alteration	<input type="checkbox"/> Part 11 11.1 to 11.4 <input checked="" type="checkbox"/> Part 3 1.1.2 [A] 1.1.2 [A] & 9.10.1.3
2	Major Occupancy(s)	GROUP A, DIVISION 2	3.1.2.1.(1) 9.10.2
3	Building Area	74m ²	1.4.1.2 [A] 1.4.1.2 [A]
4	Gross Area	74m ²	1.4.1.2 [A] 1.4.1.2 [A]
5	Number of storeys	1 Above grade 1 Below grade 0	1.4.1.2 [A] & 3.2.1.1 1.4.1.2 [A] & 9.10.4
6	Number of Streets/ Fire Fighter Access	1	3.2.2.10 & 3.2.5 9.10.20.
7	Building Classification	Group A, Division 2, 1 Storey (3.2.2.28.)	3.2.2.20 - 83 9.10.2.
8	Sprinkler System Proposed <input type="checkbox"/> entire building <input type="checkbox"/> selected compartments <input type="checkbox"/> selected floor areas <input type="checkbox"/> basement <input type="checkbox"/> in lieu of roof rating <input checked="" type="checkbox"/> not required	3.2.2.20 - 83 3.2.1.5. 3.2.2.17. INDEX	9.10.8.2 9.10.2. INDEX INDEX
9	Standpipe required	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	3.2.9 N/A
10	Fire Alarm required	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	3.2.4 9.10.18
11	Water Service/Supply is Adequate	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	3.2.5.7. N/A
12	High Building	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	3.2.6 N/A

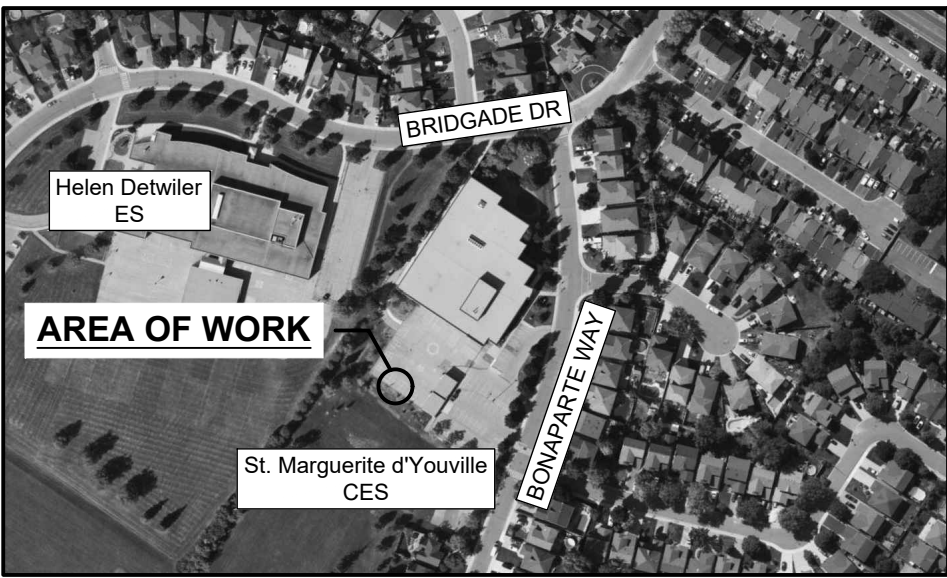
13	Permitted Construction Actual Construction	<input type="checkbox"/> Combustible permitted <input type="checkbox"/> Combustible	<input type="checkbox"/> Non-combustible required <input checked="" type="checkbox"/> Non-combustible	<input checked="" type="checkbox"/> Both	3.2.2.20 - 83	9.10.6					
14	Mezzanine(s) Area m ²	N/A			3.2.1.1.(3)-(8)	9.10.4.1					
15	Occupant load based on Relocated Portable Classroom	<input type="checkbox"/> m ² /person Occupancy	<input checked="" type="checkbox"/> design of building ASSEMBLY Load	23 persons	3.1.17	9.9.1.3					
16	Barrier-free Design	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No (Explain) Existing School is Barrier Free			3.8	9.5.2					
17	Hazardous Substances	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			3.3.1.2. & 3.3.1.19	9.10.1.3(4)					
18	Required Fire Resistance Rating (FRR)	Horizontal Assemblies FRR (Hours)		Listed Design No. or Description (SB-2)	3.2.2.20 - 83 & 3.2.1.4	9.10.8. 9.10.9.					
		Floors	- Hours								
		Roof	- Hours								
			Mezzanine	- Hours	N/A						
			FRR of Supporting Members		Listed Design No. or Description (SB-2)						
		Floors	- Hours								
		Roof	- Hours								
			Mezzanine	- Hours	N/A						
		19	Spatial Separation - Construction of Exterior Walls				APPENDIX A - CASE 4	3.2.3	9.10.14		
	Wall	Area of EBF (m ²)	L.D. (m)	L/H or H/L	Permitted Max. % of Openings	Proposed % of Openings	Min. FRR (Hours) Required	Listed Design or Description	Construction Type Required	Cladding Type Required	
	West Reloc. Portable + Ex Portables	65	8.25	OVER 10:1	100%	100%	-	Refer to drawings	Combustible or Noncombustible	Combustible or Noncombustible	
	East Reloc. Portable + Ex Portables	65	8.25	OVER 10:1	100%	100%		Refer to drawings	Combustible or Noncombustible	Combustible or Noncombustible	
	South Reloc. Portable + Ex Portables	56	8	OVER 10:1	100%	100%		Refer to drawings	Combustible or Noncombustible	Combustible or Noncombustible	
	East EX BLDG	450	13	3:1 to 10:1	40.66%	9.5% EX	45 min	Refer to drawings	Combustible or Noncombustible	Combustible or Noncombustible	
20	Travel Distance to Exits (Refer to Drawings)				Refer to drawings for wall assembly construction & cladding types.						
	Notes: A) No fuel-fire appliances to be used in portables. Unit ventilators are electrical powered. B) A portable fire extinguisher to be provided within the new proposed portable C) A sign is to be posted within the new proposed portables to restrict to a maximum of 23 persons per portable										

ZONING DATA FOR CITY OF HAMILTON

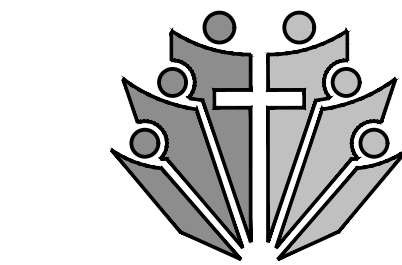
ITEM DESCRIPTION	PERMITTED	ACTUAL OR PROPOSED
ZONING DESIGNATION	I1-NEIGHBORHOOD INSTITUTIONAL	
NET LOT AREA (MIN)	NONE	29,014 sqm
MINIMUM YARD WHERE LOT LINE ABUTS A RESIDENTIAL ZONE LOT LINE	6.0 m	N/A
MAXIMUM BUILDING HEIGHT	10.5m	EX SCHOOL = 9m PORTABLE = 3.5m±
REQUIRED PARKING SPACES:	CLASSROOM X 1.25 = SPACES 28 EXISTING CLASSROOMS + 1 PORTABLE CLASSROOM X 1.25 = 36.25 PARKING SPACE REQUIRED	EXISTING 73 SPACES + 2 BF SPACES TOTAL = 75 SPACES PROVIDED

WASHROOM CALCULATION

Male / Female Count at 50% / 50 %	OBC Reference 3.7.4.3. (14)
EX. OCCUPANT LOAD (Elementary School)	486 Students + 40 Staff
1 PORTABLE CLASSROOM ADDITION	23
TOTAL	549
TOTAL FEMALES	275
TOTAL FEMALE FIXTURES REQUIRED (1 PER 26 FEMALES)	11
TOTAL FEMALE FIXTURES PROVIDED	24
TOTAL MALES	275
TOTAL MALE FIXTURES REQUIRED (1 PER 30 MALES)	10
TOTAL MALE FIXTURES PROVIDED	23



LOCATION MAP
N.T.S.



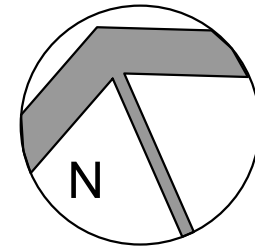
Hamilton-Wentworth
Catholic District School Board

LEGEND

BB	BASKETBALL NET / BACKSTOP
BF	BARRIER FREE
CB	CATCH BASIN
CLF	CHAIN LINK FENCE
CONC	CONCRETE
DC	DEPRESSED CURB
EX	EXISTING
FH	FIRE HYDRANT
FP	FLAG POLE
HP	HYDRO POLE
LD	LIMITING DISTANCE
LS	LIGHT STANDARD
MAX	MAXIMUM
MH	MAN HOLE
MIN	MINIMUM
SAN	SANITARY
SIB	STANDARD IRON BAR
STM	STORM
T/R	TO REMAIN
W/M	WATERMAIN

ENTRANCE TO BLDG.

EXISTING TREE

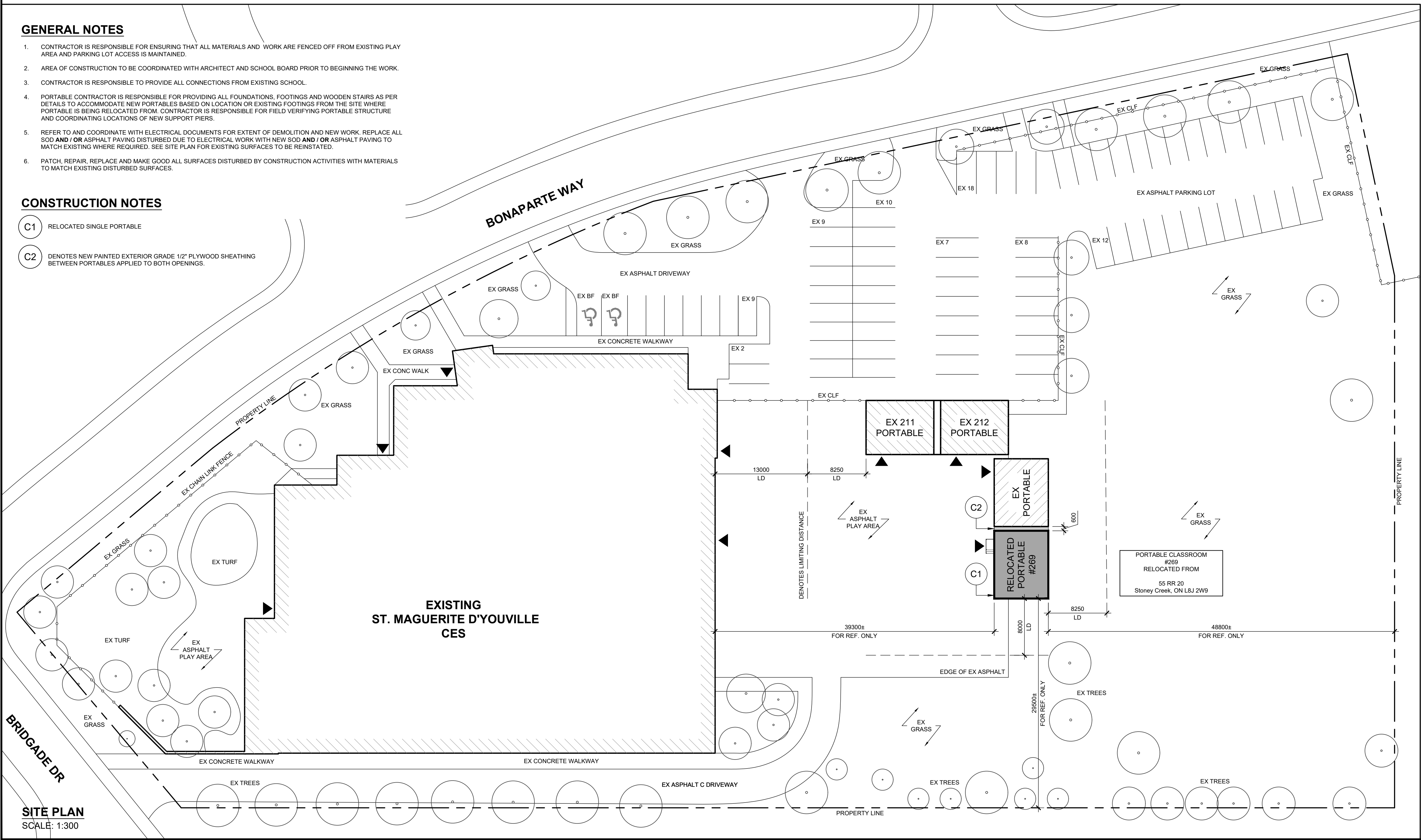


GENERAL NOTES

- CONTRACTOR IS RESPONSIBLE FOR ENSURING THAT ALL MATERIALS AND WORK ARE FENCED OFF FROM EXISTING PLAY AREA AND PARKING LOT ACCESS IS MAINTAINED.
- AREA OF CONSTRUCTION TO BE COORDINATED WITH ARCHITECT AND SCHOOL BOARD PRIOR TO BEGINNING THE WORK.
- CONTRACTOR IS RESPONSIBLE TO PROVIDE ALL CONNECTIONS FROM EXISTING SCHOOL.
- PORTABLE CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALL FOUNDATIONS, FOOTINGS AND WOODEN STAIRS AS PER DETAILS TO ACCOMMODATE NEW PORTABLES BASED ON LOCATION OR EXISTING FOOTINGS FROM THE SITE WHERE PORTABLE IS BEING RELOCATED FROM. CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFYING PORTABLE STRUCTURE AND COORDINATING LOCATIONS OF NEW SUPPORT PIERS.
- REFER TO AND COORDINATE WITH ELECTRICAL DOCUMENTS FOR EXTENT OF DEMOLITION AND NEW WORK. REPLACE ALL SOD AND / OR ASPHALT PAVING DISTURBED DUE TO ELECTRICAL WORK WITH NEW SOD AND / OR ASPHALT PAVING TO MATCH EXISTING WHERE REQUIRED. SEE SITE PLAN FOR EXISTING SURFACES TO BE REINSTATED.
- PATCH, REPAIR, REPLACE AND MAKE GOOD ALL SURFACES DISTURBED BY CONSTRUCTION ACTIVITIES WITH MATERIALS TO MATCH EXISTING DISTURBED SURFACES.

CONSTRUCTION NOTES

- C1 RELOCATED SINGLE PORTABLE
- C2 DENOTES NEW PAINTED EXTERIOR GRADE 1/2" PLYWOOD SHEATHING BETWEEN PORTABLES APPLIED TO BOTH OPENINGS.



1	ISSUED FOR BUILDING PERMIT	2025-01-17
NO	REVISIONS	DATE

DRAWINGS ARE NOT TO BE SCALED. CONTRACTOR MUST CHECK AND VERIFY ALL DIMENSIONS AND CONDITIONS ON THE PROJECT AND MUST REPORT ANY DISCREPANCIES TO THE ARCHITECTS BEFORE PROCEEDING WITH THE WORK. THE USE OF THIS DRAWING OR PART THEREOF IS FORBIDDEN WITHOUT THE WRITTEN APPROVAL OF THE ARCHITECTS.

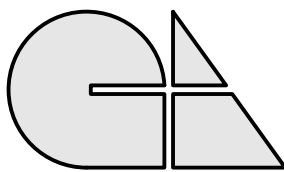


ST. MARGUERITE
D'YOUVILLE CES
RELOCATED
PORTABLE CLASSROOM

20 Bonaparte Way, Hamilton, ON L9B 2E3

SITE PLAN &
OBC MATRIX

GRGURIC
ARCHITECTS
INCORPORATED



28 KING STREET EAST, UNIT B
STONEY CREEK, ONTARIO, L8G 1J8
Tel. 905-664-8735 Fax. 905-664-8737
Web: www.2gai.com

SCALE: AS NOTED	PROJECT: 2024-24
START DATE: DEC 2024	
DRAWN: AH	DRAWING: A1.00
CHECKED: W.P.	
PRINT DATE: 01/17/25	

S:\Data\2024\2024-24-HVCCSB-Variou...Portables\65Drawings\12-Working Drawings\SI-M...
A1.00-SITEPLAN-SM01.dwg

GENERAL PIER PLAN NOTES

- ALL PIER HEIGHTS TO BE SITE VERIFIED BY CONTRACTOR, SOLID HARDWOOD SHIMS TO BE USED AS REQUIRED.
- DUCKBILL ANCHORS TO BE INSTALLED BY PORTABLE MOVING CONTRACTOR. UNDER CASH ALLOWANCE. DENOTED BY DA. ON PIER PLAN.
- FOUNDATION PIERS AND DUCK BILL ANCHORS TO BE INSTALLED AS PER TYPICAL DETAILS 1, 2 & 3.
- EXISTING SOIL BEARING CAPACITY TO BE FIELD VERIFIED PRIOR TO CONSTRUCTION

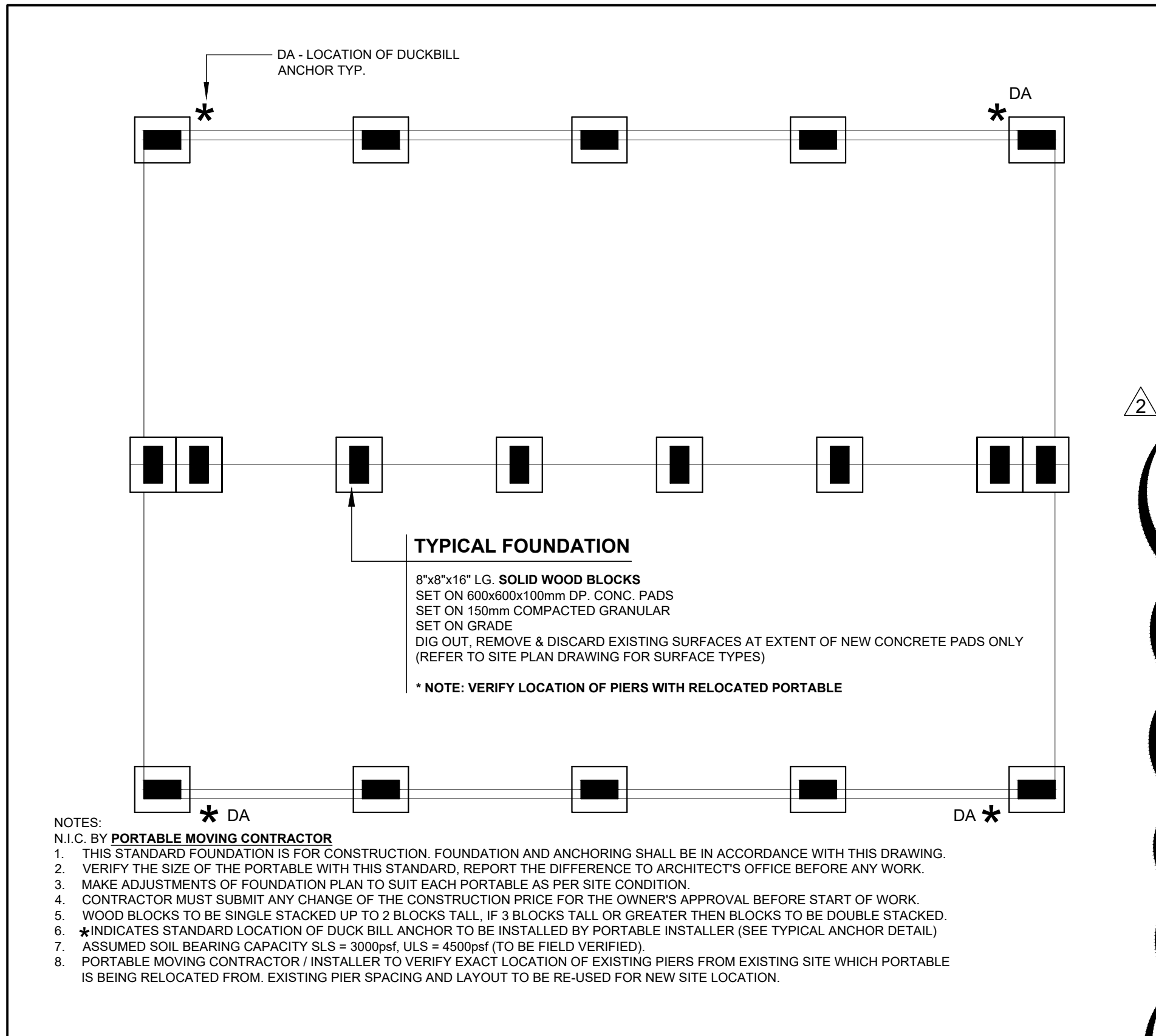
5. LOCATION OF ALL EXISTING PIERS TO BE SITE VERIFIED BY PORTABLE MOVING CONTRACTOR AT EXISTING SITE WHERE PORTABLE IS BEING RELOCATED FROM. EXISTING PIER SPACING AND LAYOUT IS TO BE RE-USED FOR THIS SITE. PIER PLAN IS SHOWN FOR REFERENCE ONLY. ALL DIMENSIONS MUST BE VERIFIED BEFORE INSTALLATION & ADJUSTMENTS MUST BE MADE TO THE FOUNDATION PLAN TO SUIT PER SITE CONDITIONS. ANY DISCREPANCIES TO BE REPORTED TO ARCHITECT PRIOR TO INSTALLATION.

CONSTRUCTION NOTES

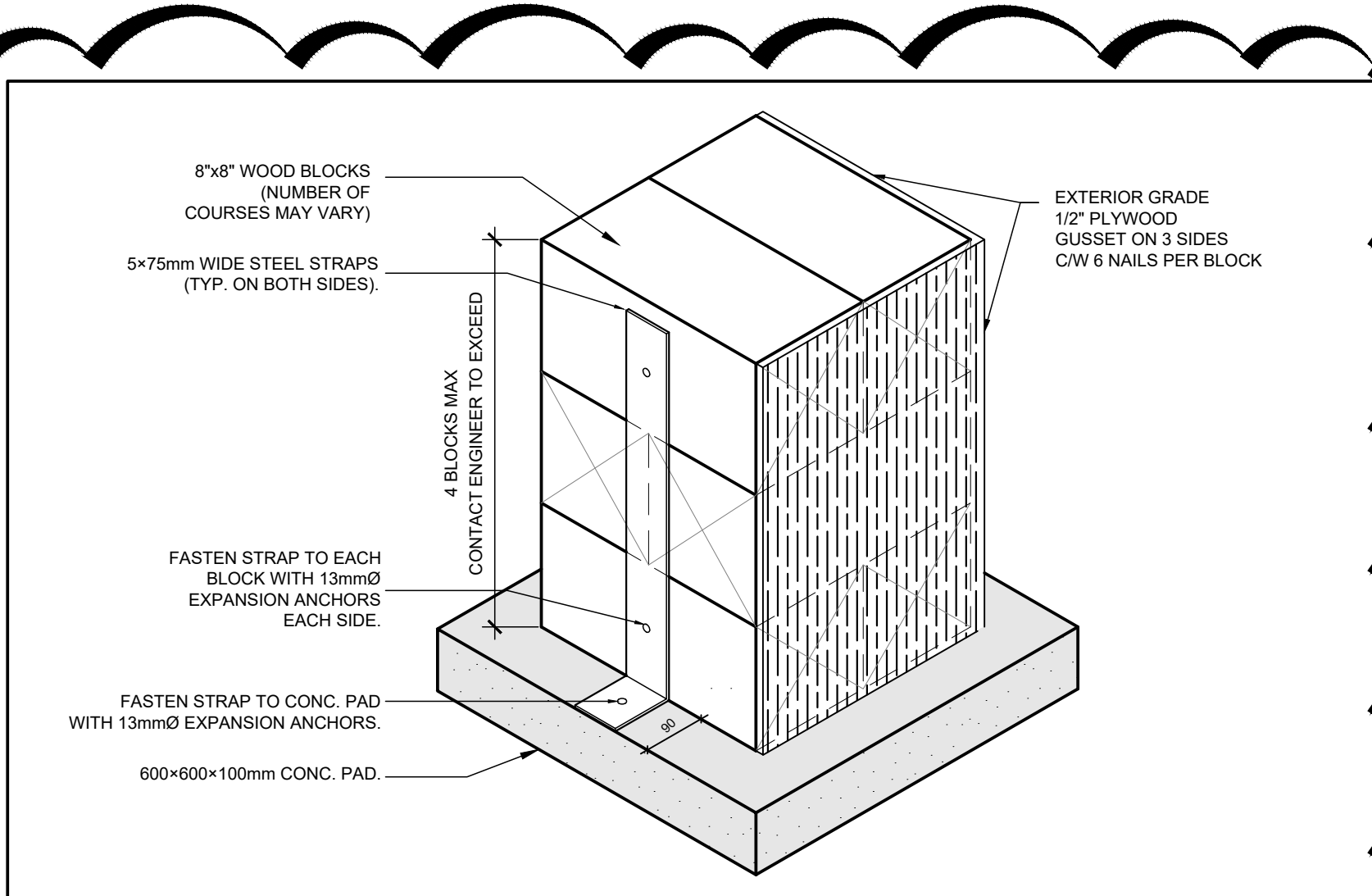
C1 ALLOW FOR VCT FLOOR REPAIR UNDER CASH ALLOWANCE

NOTE: FLOOR PLAN SHOWN IS A GENERAL ARRANGEMENT OF A TYPICAL EXISTING PORTABLE UNIT. UNIT VENTILATORS, DEVICES, DAMPERS & DOORS, ETC. MAY DIFFER SLIGHTLY FROM WHAT IS SHOWN ON PLAN. TO BE SITE VERIFIED FOR EACH EXISTING PORTABLE TO BE RELOCATED. THIS IS FOR GENERAL REFERENCE. REFER TO SITE PLAN DRAWING & BUILDING ELEVATIONS FOR ORIENTATION OF PORTABLES & RELATED DETAILS.

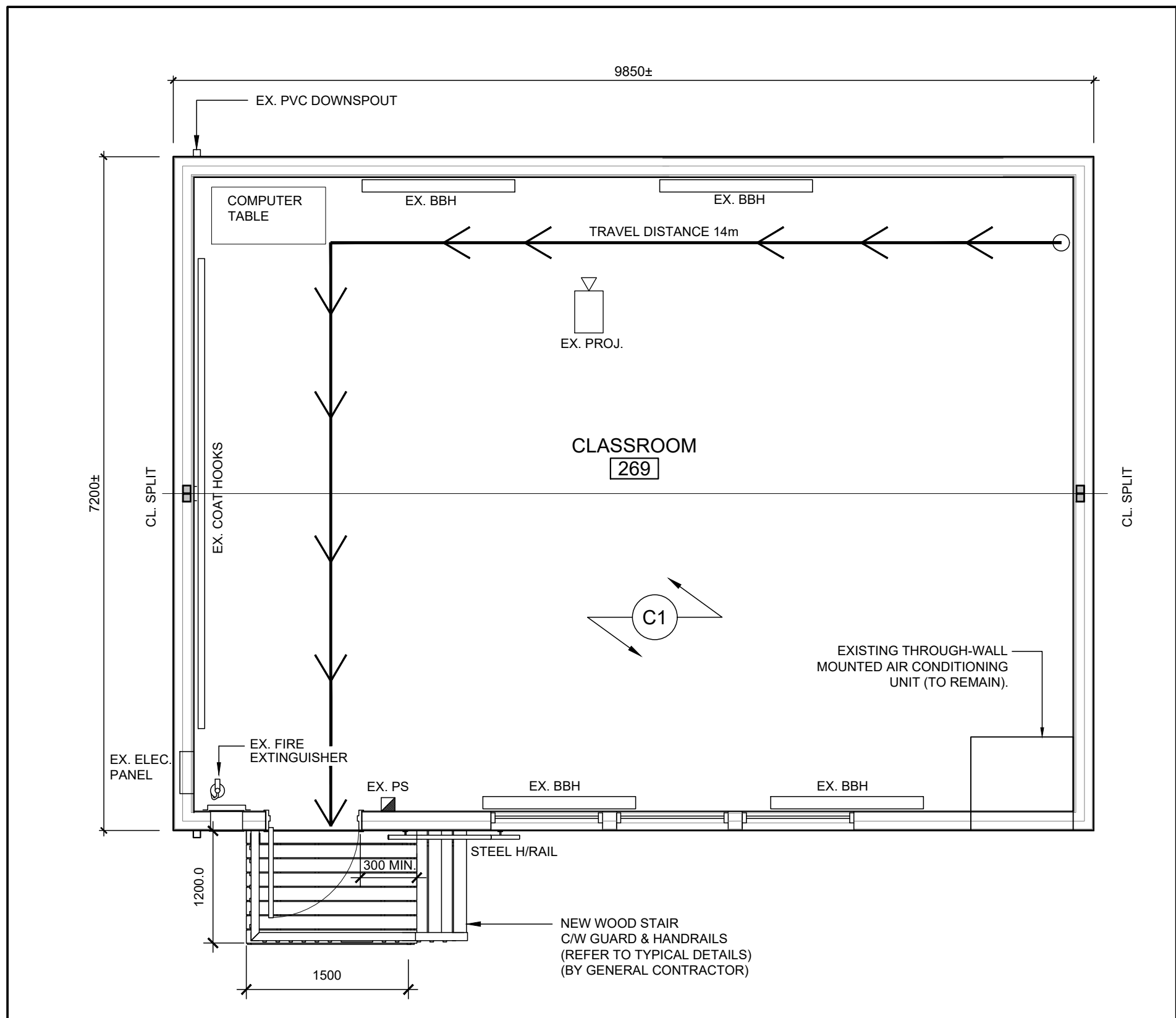
PROJECT DESIGN DATA TABLE			
BUILDING IMPORTANCE		NORMAL	
LIVE LOAD : 2.4 kPa			
SPECIFIED SNOW AND RAIN LOADS			
RAIN LOADING DESIGN DATA (1/50)		24 hr. RAIN	108 mm
		Ss	1.3 kPa
SNOW LOADING DESIGN DATA (1/50)		Sr	0.4 kPa
BASIC ROOF SNOW LOAD		S	1.44 kPa
ADDITIONAL SNOW ACCUMULATION IS SHOWN ON THE DRAWINGS			
SPECIFIED WIND LOADS			
HOURLY WIND PRESSURE DESIGN DATA		0.46 kPa	
WIND DESIGN CATEGORY		CATEGORY 2	
TERRAIN TYPE		'OPEN'	
SPECIFIED EARTHQUAKE LOADS			
SEISMIC LOADING DESIGN DATA		Sa (0.2, X ₀) = 0.389	Sa (2.0, X ₀) = 0.0812
		Sa (0.5, X ₀) = 0.316	Sa (5.0, X ₀) = 0.0209
		Sa (1.0, X ₀) = 0.177	Sa (10.0, X ₀) = 0.00643
		PGA (X ₀) = 0.245	PGV (X ₀) = 0.205
SITE CLASS TO BE CONFIRMED BY GEOTECHNICAL ENGINEER		SITE CLASS = D	
SEISMIC FORCE MODIFICATION FACTORS FOR SEISMIC RESISTING SYSTEM		Rd	3.0
		Ro	1.7
SEISMIC CATEGORY		SC3	



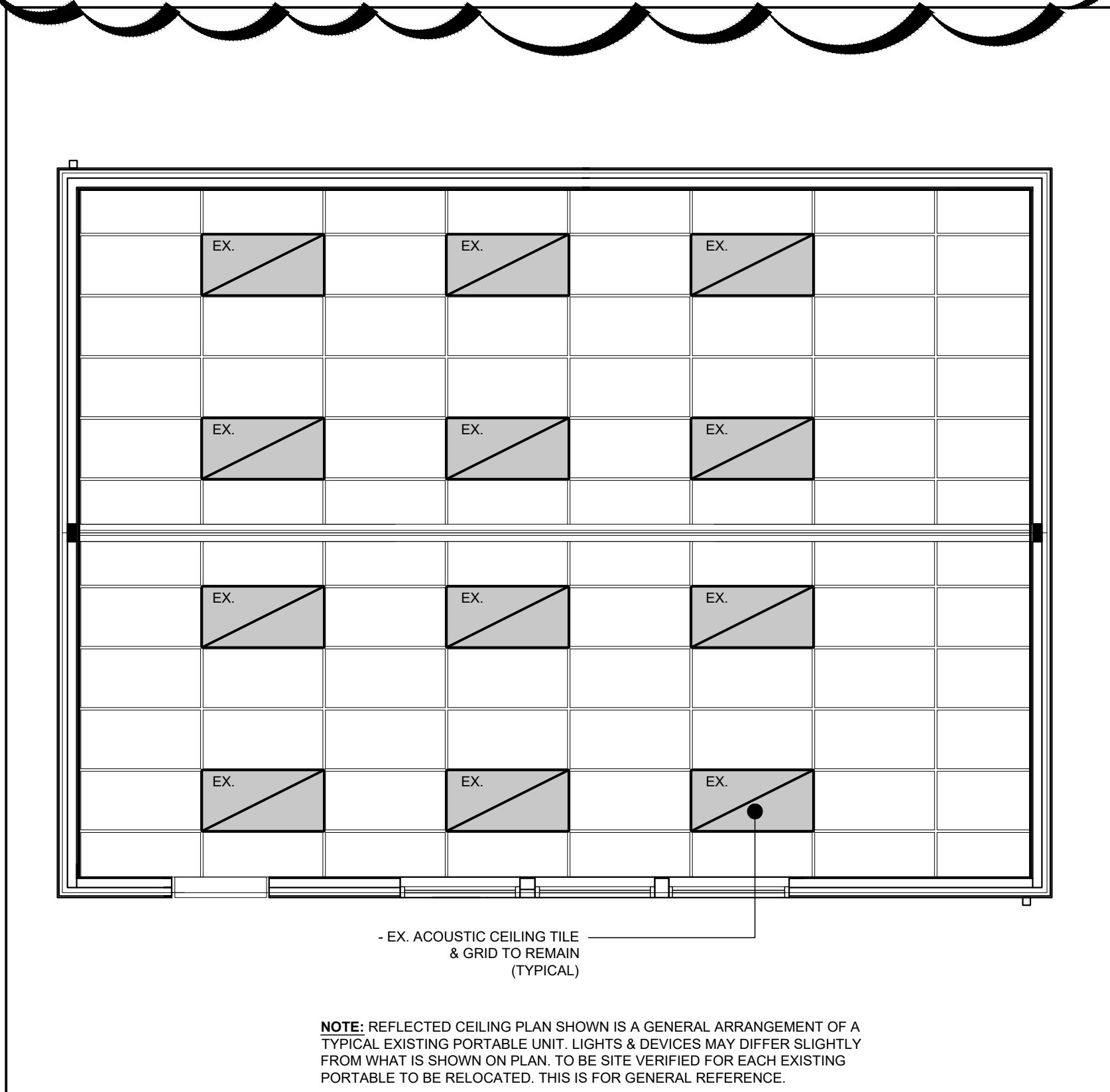
FOUNDATION PIER PLAN (SIMILAR FOR ALL RELOCATED PORTABLES)
SCALE: 1:50



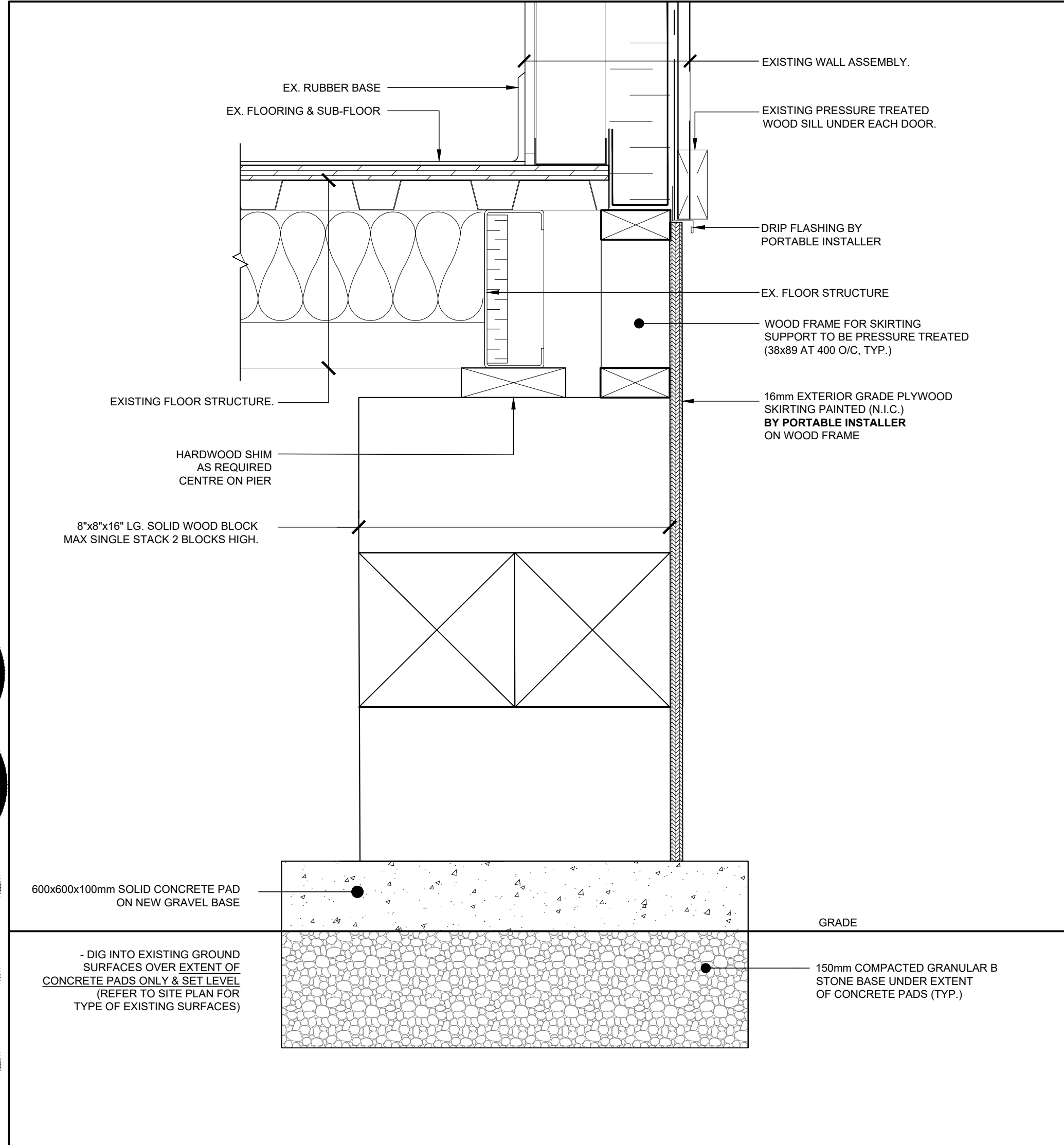
2 TYP. FOUNDATION PIER PLAN DETAIL (ISOMETRIC)
SCALE: 1:10



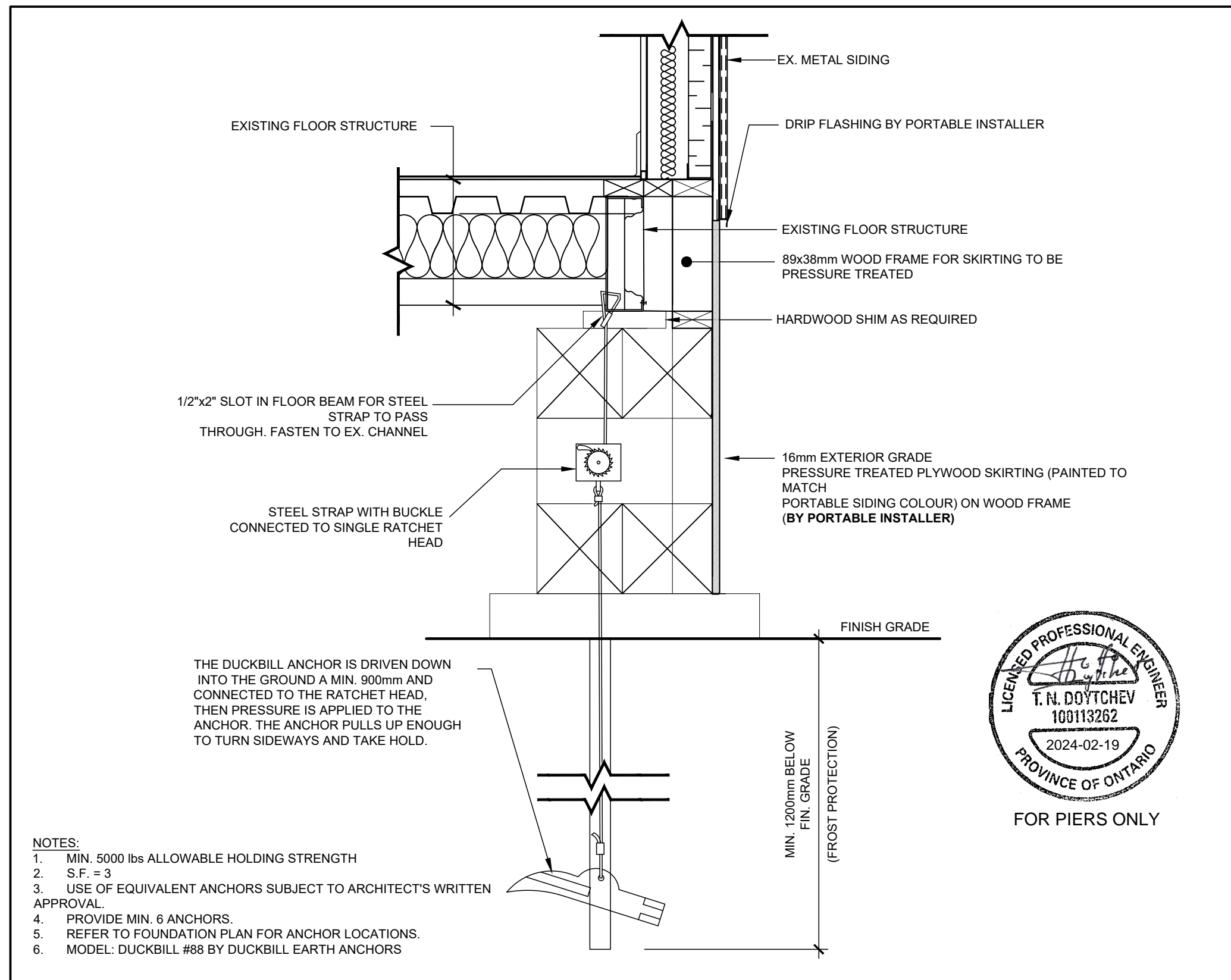
FLOOR PLAN (PORTABLE CLASSROOM)
SCALE: 1:50



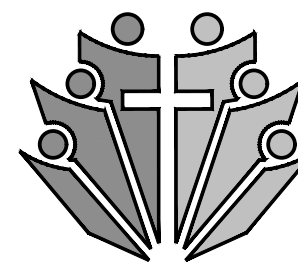
REFLECTED CEILING PLAN (TYPICAL FOR ALL PORTABLES)
SCALE: 1:50



1 TYP. FOUNDATION PIER DETAIL
SCALE: 1:5



3 TYPICAL ANCHOR DETAIL
SCALE: 1:10



Hamilton-Wentworth
Catholic District School Board

LEGEND

BF BARRIER FREE
CB CATCH BASIN
CLF CHAIN LINK FENCE
C/W COMPLETE WITH
EA EACH
EX EXISTING
FH FIRE HYDRANT
LD LIMITING DISTANCE
TO TOP OF
TYP TYPICAL
U/S UNDERSIDE
U/V UNIT VENTILATOR
WP WALL PACK

REVIS	REVISED PER BUILDING DEPT. COMMENTS	2025-02-18
1	ISSUED FOR BUILDING PERMIT	2025-01-17
NO	REVISIONS	DATE

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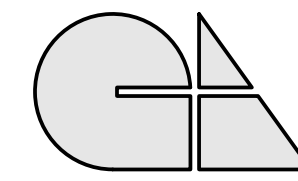


ST. MARGUERITE
D'YOUVILLE CES
RELOCATED
PORTABLE CLASSROOM

20 Bonaparte Way, Hamilton, ON L9B 2E3

PORTABLE
CLASSROOM '269'
FLOOR PLANS,
PIER PLAN & DETAILS

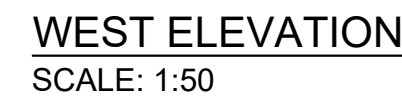
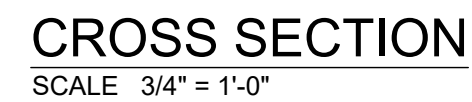
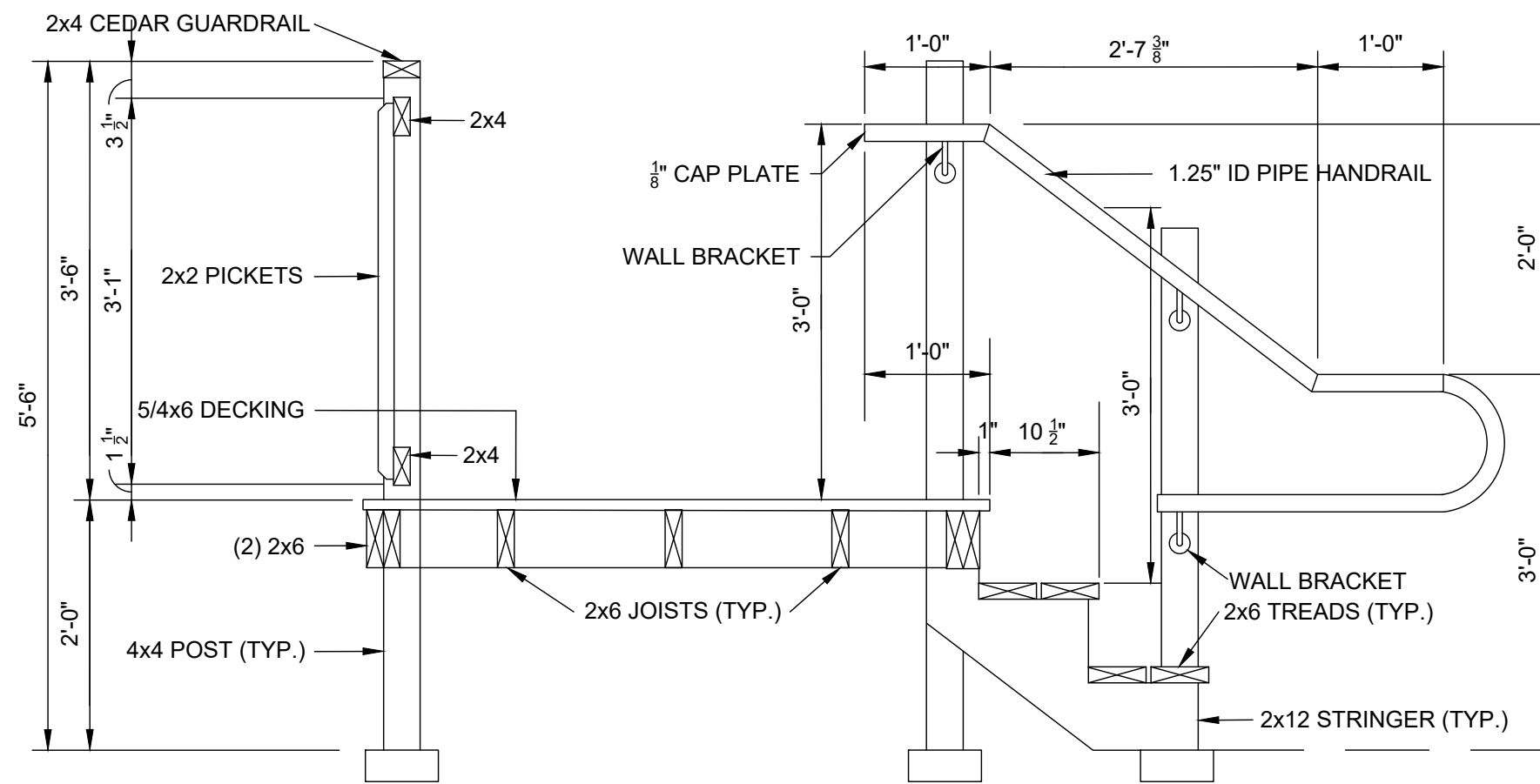
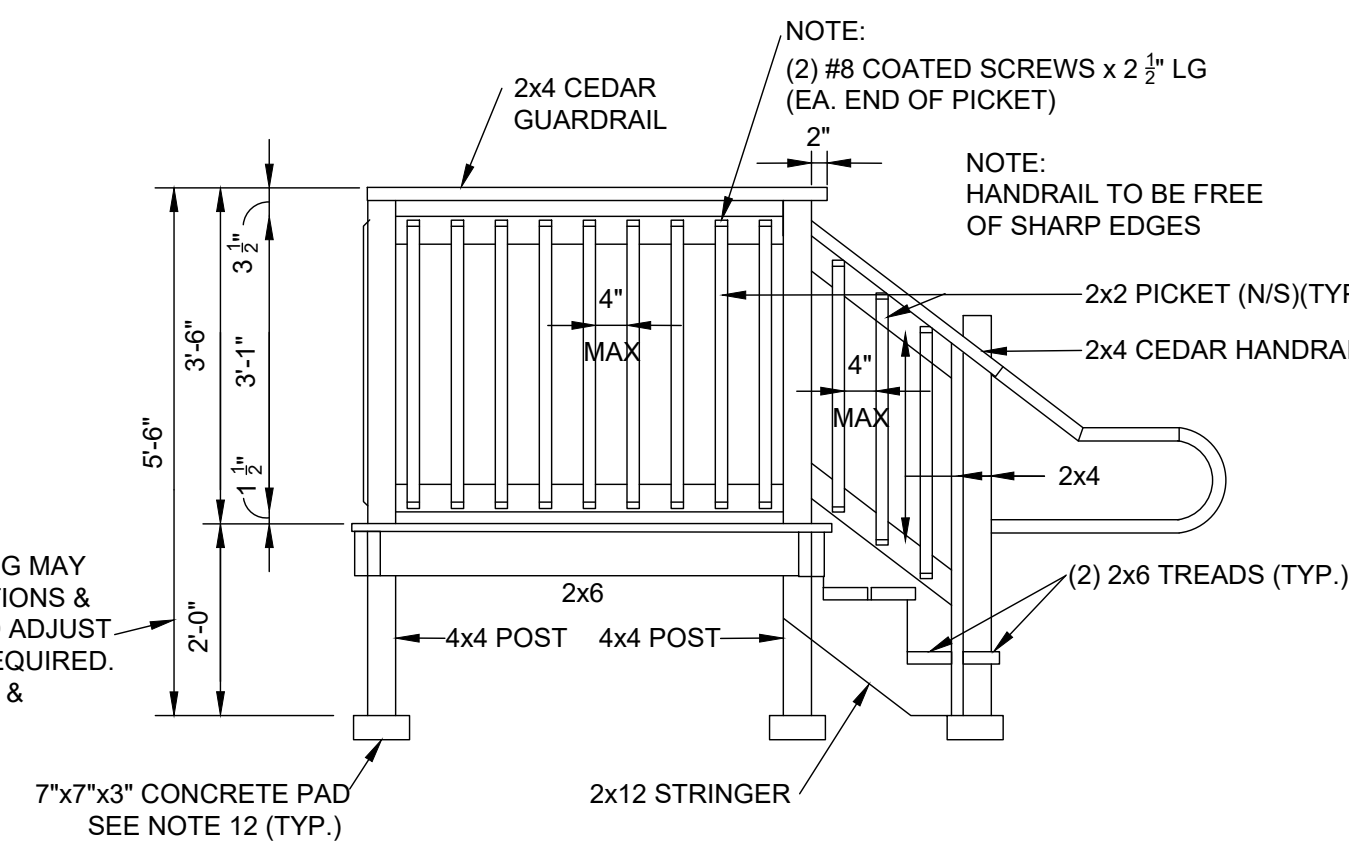
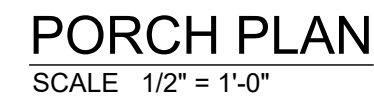
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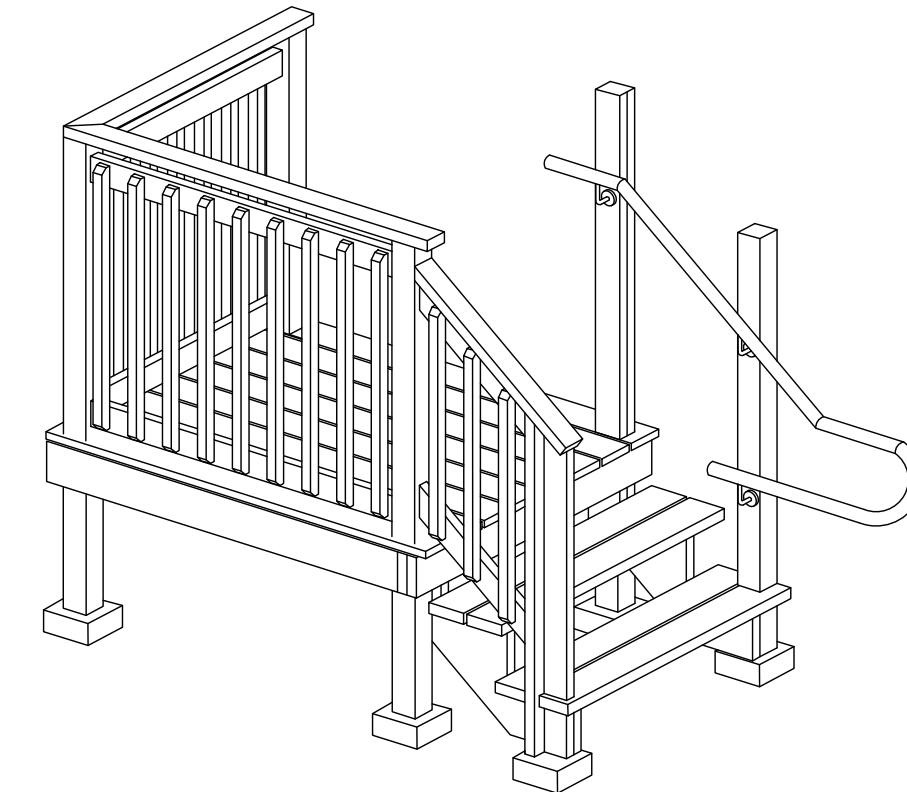
28 KING STREET EAST, UNIT B
STONE CREEK, ONTARIO, L8G 1J8
Tel. 905-664-8735 Fax. 905-664-8737
Web: www.2gai.com

SCALE: AS NOTED	PROJECT: 2024-24
START DATE: DEC 2024	
DRAWN AH	DRAWING: A2.00
CHECKED W.P.	
PRINT DATE 02/19/25	

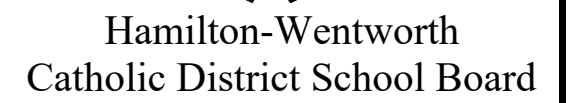
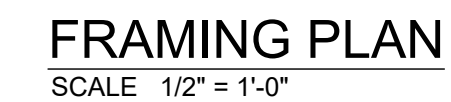
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1. SCREW PORCH TO POSTS WITH 3" SCREWS, 2 1/2" SCREWS FOR HANDRAILS, STEPS, AND PICKETS
2. WOOD IS PRESSURE TREATED #2 S.P.F.
3. STAIRS MORE THAN 3'-8" IN WIDTH WILL REQUIRE HANDRAILS ON BOTH SIDES, PROVIDE EXTRA STRINGER MID POINT OF STAIR.
4. STAIR HANDRAIL HEIGHT MUST BE BETWEEN 2'-10" AND 3'-2" MEASURED FROM THE TREAD NOSING.
5. THE LANDING GUARD MUST BE MORE THAN 3'-6" HIGH AND THE STAIR GUARD RAIL MUST BE MORE THAN 3'-0" HIGH.
6. THE LANDING GUARD MUST NOT FACILITATE CLIMBING BETWEEN 5 1/2" TO 3'-0" ABOVE LANDING.
7. THE RISE BETWEEN STAIRS MUST BE UNIFORM AND BE BETWEEN 5" AND 7 1/8".
8. ENSURE A CLEAR SPACE OF 1'-0" FROM DOOR TO THE FIRST RISER.
9. ALL FINITE RISE TO BE SITE VERIFIED PRIOR TO CONSTRUCTION.
10. GUARDS AND RAILINGS TO WITHSTAND 0.75KN/M OR A CONCENTRATED LOAD OF 1.0kN APPLIED AT ANY POINT.
11. LIVE LOAD STAIR AND LANDING = 4.80kPa
12. SITE CONDITIONS DETERMIN PORCH AND STAIR FOUNDATION. 7"x7"x3" CONCRETE PADS TO BE USED (AS SHOWN ON DRAWING) WHERE AFOREMENTIONED STRUCTURE IS PLACED ON GRASS OR DIRT; PT 2x6's WHERE STRUCTURE IS PLACED ON CONCRETE OR ASPHALT.



ISOMETRIC VIEW

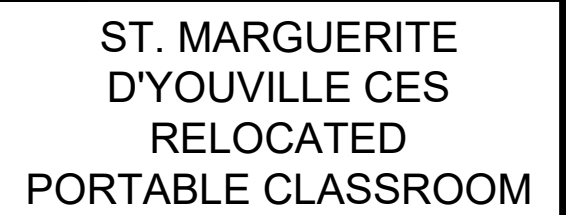


LEGEND

BF BARRIER FREE
CB CATCH BASIN
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C/W COMPLETE WITH
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1	ISSUED FOR BUILDING PERMIT	2025-01-17
NO	REVISIONS	DATE

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20 Bonaparte Way, Hamilton, ON L9B 2E3

PORTABLE CLASSROOM '269' ELEVATIONS & PORCH/STAIR DETAIL

GRGURIC
ARCHITECTS
INCORPORATED



SCALE: AS NOTED	PROJECT: 2024-24
START DATE: DEC 2024	
DRAWN AH	DRAWING: A3.00
CHECKED W.P.	
PRINT DATE	01/17/25

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A2 00.arch-struct-SMDY.dwg

ELECTRICAL SPECIFICATIONS

1. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE CANADIAN ELECTRICAL CODE, THE LATEST ONTARIO ELECTRICAL SAFETY CODE, ONTARIO BUILDING CODE AND THE ONTARIO FIRE CODE.
2. ALL FIRE ALARM EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH CAN/ULC-S524M AND SHALL BE TESTED IN ACCORDANCE WITH CAN/ULC S537M. ALL WORK SHALL BE PERFORMED BY AN APPROVED / CERTIFIED CONTRACTOR. ALL FIRE ALARM INSTALLATIONS AND EQUIPMENT SHALL BE IN CONFORMANCE WITH THE LATEST EDITION OF THE CAN/ULC S-524, CAN/ULC-S525, CAN/ULC-S526, CAN/ULC-S527, CAN/ULC-S528, CAN/ULC-S529, CAN/ULC-S530, AND SUBJECT TO THE LOCAL AUTHORITIES HAVING JURISDICTION. ALL TESTING AND VERIFICATION SHALL BE IN CONFORMANCE WITH CAN/ULC S-537. PROVIDE FINAL ACCEPTANCE, VERIFICATION TEST / REPORTS & CERTIFICATION OF ENTIRE SYSTEM. SUPPLY AND INSTALL ALL NECESSARY EQUIPMENT & MATERIALS TO ACCOMMODATE DEVICES WIRING, ETC. ALL WORK SHALL BE PERFORMED BY AN APPROVED / CERTIFIED CONTRACTOR.
3. ALL EMERGENCY/EXIT LIGHTING EQUIPMENT TO MEET CSA C22.2 NO.141-M.
4. THE WORK SHALL CONSIST OF FURNISHING ALL LABOR, MATERIALS, TOOLS AND EQUIPMENT NECESSARY TO COMPLETE ALL ELECTRICAL WORK AS INDICATED ON THE DRAWINGS AND THE SPECIFICATIONS. ALL EQUIPMENT AND LABOUR TO BE WARRANTED FOR A PERIOD OF ONE (1) YEAR FROM THE DATE OF FINAL ACCEPTANCE OF THE WORK AS OUTLINED IN THE CONTRACT DOCUMENTS.
5. PORTABLE SUPPLIER TO PROVIDE ENGINEERED STAMPED AND SIGNED DRAWINGS FOR PERMIT APPLICATION AND SHALL BE RETAIN A LICENSED ELECTRICAL CONTRACTOR TO PERFORM THE WORK AND ARRANGE AND PAY FOR ALL NECESSARY PERMITS, INSPECTIONS AND VERIFICATIONS AS REQUIRED BY CODE INCLUDING ELECTRICAL SAFETY AUTHORITY INSPECTION, FIRE ALARM SYSTEM RE-VERIFICATION BY EQUIPMENT MANUFACTURER, FIRE MARSHALS TESTING AND LOCAL BUILDING DEPARTMENT REVIEW.
6. CONTRACTOR TO PROVIDE FOUR (4) SETS OF WRITTEN OPERATING AND MAINTENANCE INSTRUCTIONS FOR SCHOOL BOARDS UPON COMPLETION OF WORK.
7. CONTRACTOR SHALL PROVIDE TRAINING BY ALL EQUIPMENT SUPPLIERS TO INSTRUCT SCHOOL BOARD DESIGNATED PERSONNEL ON THE CARE, OPERATION, TESTING AND MAINTENANCE OF NEW EQUIPMENT AND SYSTEMS.
8. APPROPRIATE SHOP DRAWINGS TO BE SUBMITTED TO ARCHITECT AND CONSULTANT FOR REVIEW AND APPROVAL PRIOR TO ORDER PLACEMENT.
9. ALL CUTTING/PATCHING FOR ELECTRICAL WORK SHALL BE BY DESIGN-BUILDER, THE REPAIR OF ALL OPENINGS MADE IN FIRE SEPARATIONS SHALL BE THE RESPONSIBILITY OF THIS CONTRACTOR. FILL ALL OPENINGS WITH APPROPRIATE LISTED FIRE STOP MATERIAL. (SPRAY FOAM PRODUCTS ARE NOT ALLOWED). ELECTRICAL CONTRACTOR TO LOCATE AND SIZE ALL OPENINGS REQUIRED.
10. VERIFY ALL EXISTING CONDITIONS IN THE FIELD AND INCLUDE IN THE BID PRICE ALL WORK REQUIRED TO ACCOMMODATE THE EXISTING INSTALLATION.
11. COORDINATE WORK WITH ALL OTHER TRADES.
12. ALL WALL MOUNTED POWER, DATA AND TELEPHONE OUTLETS SHALL BE MOUNTED AT BUILDING STANDARD HEIGHT, UNLESS OTHERWISE SHOW ON ARCHITECTURAL DRAWINGS. COLOR AND FINISH OF DEVICES AND PLATES SHALL MATCH EXISTING IN FINISHED AREA, UNLESS OTHERWISE SELECTED BY THE ARCHITECT.
13. ALL WIRING SHALL BE RUN IN CONDUIT OR CABLE TO SUIT THE APPLICATION. ALL CONDUIT TO BE EMT CONDUIT C/W STEEL BOXES IN CONCEALED LOCATIONS & SERVICE ROOMS, WHITE WIRE MOLD C/W WIRE MOLD BOXES IF EXPOSED IN STUDENT OR TEACHER AREAS AND PVC DB TYPE II FOR UNDERGROUND APPLICATIONS. ALL CONDUIT SHALL BE 3/4" MINIMUM.
14. CONCEAL NEW WIRING WHEREVER POSSIBLE. AC TYPE MAY BE USED IN CEILING SPACES, WALL CHASES ETC. SHORT RUN FROM OUTLET BOX TO DEVICE ONLY. ANY EXPOSED WIRING IN CEILING SPACES SHALL BE CSA FT6 RATED. SURFACE MOUNTED WORK IN ALL AREAS SHALL BE MINIMIZED. SEEK ARCHITECT'S APPROVAL.
15. ALL WIRE AND CABLE SHALL BE XLPE, RW90 OR RWU90 FOR UNDERGROUND APPLICATIONS, COPPER WITH 600V INSULATION SIZED ACCORDING TO THE APPLICATION. MINIMUM SIZE #12 AWG FOR POWER C/W CSA FT6 LABELED PLENUM RATED JACKET IF RUN EXPOSED IN CEILING SPACES. COLOR OF INSULATION TO MATCH EXISTING INSTALLATION.
16. CONDUIT INSTALLATION SHALL PROVIDE GROUND CONTINUITY. PROVIDE SEPARATE GROUND CONDUCTORS WHERE INDICATED ON DRAWINGS AND WHERE REQUIRED BY CODE.
17. A UPDATED AND/OR COMPLETE TYPEWRITTEN PANEL DIRECTORY SHALL BE PROVIDED FOR ALL PANELBOARDS. LABEL ALL ELECTRICAL EQUIPMENT WITH MECHANICALLY FASTENED LAMACOID NAMEPLATES. WHITEWITH BLACK LETTERS DEPICTING VOLTAGE, PHASE, FEED BREAKER NUMBER & LOCATION AND DEVICE NAME.
18. SAFETY SWITCHES SHALL BE HEAVY DUTY TYPE QMOB, 600 VOLTS AND SHALL BE INDIVIDUALLY MOUNTED IN A NEMA 1 TYPE ENCLOSURE. SIZE SHALL BE AS INDICATED ON THE CONTRACT DRAWINGS. SWITCH SHALL BE SUITABLE AS SERVICE ENTRY EQUIPMENT. SWITCHES SHALL BE BY SQUARE D OR APPROVED EQUAL.
19. ALL FUSES SHALL BE BUSSMAN, CURRENT LIMITING TYPE LPS-RK, SIZE AS INDICATED ON THE CONTRACT DRAWINGS.
20. PANELBOARD SHALL BE CIRCUIT BREAKER DISTRIBUTION TYPE RATED 240 VOLTS, 400 AMPS, 3 PHASE, 4-WIRE WITH BOLT ON MULTI-POLE CIRCUIT BREAKERS IN NEMA 1 ENCLOSURE. INTERRUPTING RATING SHALL BE 18,000 AMPERES, SYMMETRICAL. PROVIDE 400A, 3-POLE MAIN BREAKER, SIX(6) 100A, 3-POLE BRANCH BREAKER AND FOUR(4) 3-POLE SPACES FOR FUTURE BREAKERS.
21. CONDUCTOR SIZES ARE BASED ON CONNECTED EQUIPMENT HAVING A TEMPERATURE MARKING OF 75°C OR HIGHER. WHERE EQUIPMENT DOES NOT HAVE A TEMPERATURE MARKING OR IT HAS A MARKING LOWER THAN 75°C, INCREASE THE SIZE OF THE CONDUCTORS ACCORDINGLY, TO THE SATISFACTION OF THE CONSULTANT.
22. FOR WIRES IN CONDUIT, CONDUCTOR SIZES ARE BASED ON NOT MORE THAN 3 CURRENT CARRYING CONDUCTORS IN A CONDUIT. WHERE MORE THAN 3 CURRENT CARRYING CONDUCTORS ARE INSTALLED IN A CONDUIT INCREASE THE CONDUCTOR SIZE ACCORDINGLY, TO THE SATISFACTION OF THE CONSULTANT.
23. TRENCH BACKFILLING: PROVIDE A BASE LAYER OF SAND AT LEAST 100MM (4") DEEP. TAMP SAND AROUND AND OVER CONDUITS, DUCTS AND CABLES, IN 150 MM (6") LAYERS TO A HEIGHT OF AT LEAST 300 MM (12") ABOVE TOP OF CONDUITS, DUCTS AND CABLES. COMPACT EACH SAND LAYER. FILL REMAINDER OF TRENCH IN 300 MM (12") LAYERS WITH GRANULAR 'A' MATERIAL, FREE FROM STONE. COMPACT EACH LAYER TO PREVENT UNDUE SETTLEMENT. DO NOT USE MATERIAL FROM EXCAVATION FOR BACKFILLING.

24. **POWER:** PROVIDE NEW 125A - 208V/1PH CIRCUIT FROM THE EXISTING PANEL IN THE EXISTING PORTABLE C/W NEW 125A/2P BREAKER. PROVIDE NEW FEEDER FROM EXISTING PANEL TO RELOCATED PORTABLE LOCATION. REFER TO DRAWING E1.00 AND TRENCH DETAILS FOR MORE INFORMATION.
25. **LIGHTING:** EXISTING LIGHT FIXTURES WITHIN THE PORTABLES TO REMAIN AS IS. ENSURE PROPER OPERATION OF ALL UNITS. REPLACE ANY DAMAGED PARTS WITH NEW TO MATCH EXISTING.
26. **EMERGENCY/EXIT LIGHTING:** EXISTING EXIT AND EMERGENCY LIGHTING UNITS TO REMAIN AS IS. ENSURE PROPER OPERATION OF ALL UNITS. REPLACE ANY DAMAGED PARTS WITH NEW TO MATCH EXISTING.
27. **FIRE ALARM:** PROVIDE NEW FIRE ALARM HORN/STROBE COMBOS, HEAT DETECTORS AND PULL STATIONS WITH SIMPLEX DEVICES TO BE COMPATIBLE WITH THE EXISTING SIMPLEX PANEL LOCATED IN THE CUSTODIAN OFFICE IN THE MAIN SCHOOL. PROVIDE NEW CONDUIT AND FEEDER FROM THE EXISTING PORTABLE CIRCUITRY TO THE RELOCATED PORTABLE LOCATION. PROGRAM AND ADD ALL EQUIPMENT TO CONTROL THE NEW DEVICES. PROVIDE SECUREX TYPE CABLE WIRING AS REQUIRED TO CONNECT DEVICES TO THE FIRE ALARM SYSTEM. RETAIN SIMPLEX/ HAMILTON FIRE CONTROL TO RE-VERIFY FIRE ALARM SYSTEM AND FOR DEVICE SPECIFICATIONS AND REQUIREMENTS. PROVIDE NEW CONDUIT DEDICATED FOR THE FIRE ALARM FROM THE EXISTING PORTABLE TO THE RELOCATED PORTABLE. CONTRACTOR TO ROUTE CONDUIT SO AS TO TERMINATE AT THE PORTABLE LOCATIONS.
28. **PUBLIC ADDRESS:** PROVIDE NEW UNDERGROUND CONDUIT FROM THE EXTERIOR OF THE MAIN SCHOOL TO THE RELOCATED. PROVIDE NEW WIRING FROM THE MAIN PA PANEL IN THE MAIN OFFICE OF THE MAIN SCHOOL. NEW UNDERGROUND CONDUIT TO BE STUBBED UP AT THE PORTABLE LOCATIONS AS REQUIRED. CONTRACTOR TO ROUTE CONDUIT SO AS TO TERMINATE AT THE PORTABLE LOCATIONS. CONTRACTOR TO PROVIDE THE FOLLOWING:
- PROVIDE ONE CAT5e CABLE FROM THE MAIN PA PANEL ABOVE THE CEILING TO EACH NEW PORTABLE.

• RETAIN HAMILTON VIDEO AND SOUND TO PROGRAM THE NEW SPEAKERS AND FINAL TESTING.

29. **DATA:** PROVIDE NEW DATA CABLES FROM THE IT RACK IN THE EXISTING PORTABLE CLOSET. TERMINATE IN EACH OUTLET IN THE RELOCATED PORTABLE. ELECTRICAL CONTRACTOR SHALL PROVIDE MINIMUM 21MM (3/4") DIA. CONDUIT OF EMT, AND BOXES, INCLUDING PULL STRINGS, FOR ALL NEW DATA DEVICES. PROVIDE NEW UNDERGROUND CONDUIT FROM THE EXTERIOR OF THE EXISTING PORTABLE TO RELOCATED PORTABLE FOR NEW DATA LINES. NEW UNDERGROUND CONDUIT TO BE STUBBED UP AT THE PORTABLE LOCATION. CONTRACTOR TO ROUTE CONDUIT SO AS TO TERMINATE AT THE PORTABLE LOCATIONS.

- 29.1. ELECTRICAL CONTRACTOR SHALL COORDINATE ALL REQUIREMENTS WITH DATA SUBCONTRACTOR AND BOARD'S INFORMATION & COMMUNICATION TECHNOLOGY DEPARTMENT DAVID KNIGHT (905 525-2930 x 2990, dknight@hwnsdb.on.ca) PRIOR TO INSTALLING ANY OUTLETS, CONDUIT ETC.

- 29.2. APPROVED CONTRACTORS
- 29.2.1. THE FOLLOWING SCHOOL BOARD APPROVED NETWORK AND DATA SUBCONTRACTORS SHALL PROVIDE BIDS TO THE ELECTRICAL CONTRACTORS FOR THIS PROJECT:
- 29.2.1.1. SECURE SOLUTIONS
- TONY WARD

905-869-0999





TONY@SECURESOLUTION.CA
- 29.2.1.2. NETWORK ACP
- CARL STARKES

905-467-0898

CSTARKES@NETWORKACP.COM
- 29.2.1.3. 3TEC INC.
- SCOTT WAINWRIGHT

905-573-3832

SCOTT@3TEC.CA

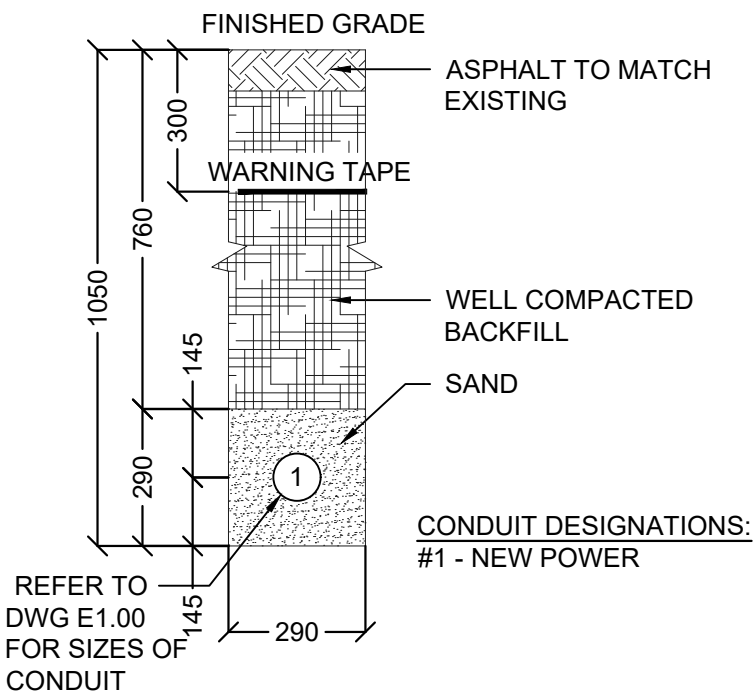
ELECTRICAL LEGEND		ABBREVIATIONS			
	FLUSH MOUNTED, SURFACE MOUNTED PANELBOARDS.	AC	ABOVE COUNTER	NTS	NOT TO SCALE
	FIRE ALARM PULL STATION	AFF	ABOVE FINISHED FLOOR	OC	ON CENTER
		C	CONDUIT	P	POLES
	FIRE ALARM HORN/STROBE COMBO	C/B	CIRCUIT BREAKER	PH	PHASE
	FIRE ALARM HEAT DETECTOR	CL	CENTERLINE	STD	STANDARD
		E/EX/EXIST	EXISTING TO REMAIN	SWBD	SWITCHBOARD
		EC	EMPTY CONDUIT	REL	TO BE RELOCATED
		EMT	ELECTRICAL METALLIC TUBING	REM	TO BE REMOVED
		FA	FIRE ALARM	TYP	TYPICAL
		G/GRD/GND	GROUND	UNF	UNFUSED
		HP	HYDRO POLE	UON	UNLESS OTHERWISE NOTED
		MTD	MOUNTED	W	WIRE
		N/NEW	NEW EQUIPMENT	WP	WEATHERPROOF
		NIC	NOT IN CONTRACT		

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ELECTRICAL DUCTBANK DETAIL #1

SCALE: N.T.S.

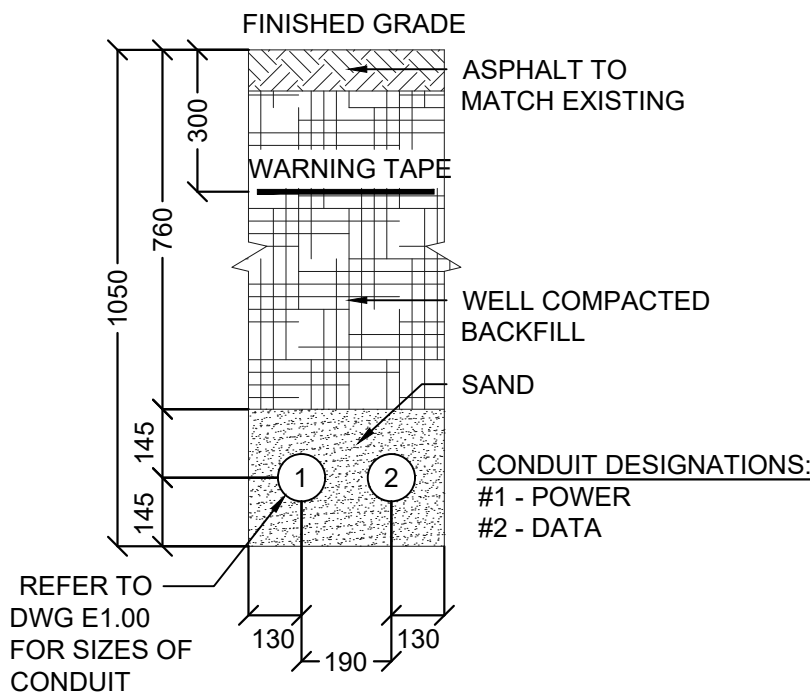


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ELECTRICAL DUCTBANK DETAIL #2

SCALE: N.T.S.





Hamilton-Wentworth
Catholic District School Board



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LICENSED PROFESSIONAL ENGINEER
JAN 16, 2025
J. Z. MANDIC
100189534
PROVINCE OF ONTARIO

1	ISSUED FOR PERMIT/TENDER	2025-01-16
NO	REVISIONS	DATE

DRAWINGS ARE NOT TO BE SCALED. CONTRACTOR MUST CHECK AND VERIFY ALL DIMENSIONS AND CONDITIONS ON THE PROJECT, AND MUST REPORT ANY DISCREPANCIES TO THE ARCHITECTS BEFORE PROCEEDING WITH THE WORK. THE USE OF THIS DRAWING OR PART THEREOF IS FORBIDDEN WITHOUT THE WRITTEN APPROVAL OF THE ARCHITECTS.



ENGINEERING

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ST. MARGUERITE
D'YOUVILLE CES
RELOCATED
PORTABLE CLASSROOM

20 Bonaparte Way, Hamilton, ON L9B 2E3

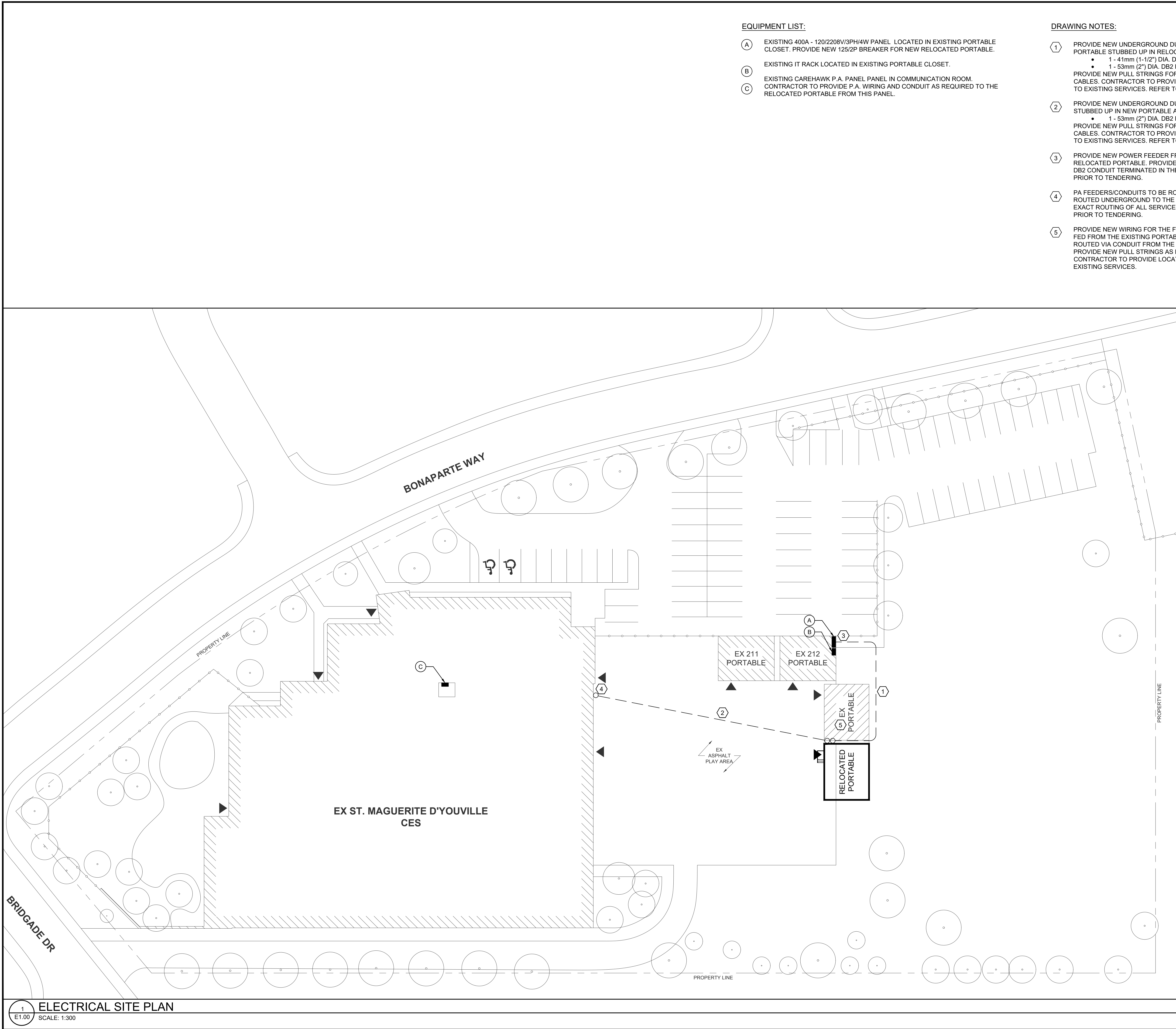
ELECTRICAL
SITE PLAN

GRGURIC
ARCHITECTS
INCORPORATED



28 KING STREET EAST, UNIT B
STONE CREEK, ONTARIO, L8G 1J8
Tel. 905-664-8735 Fax. 905-664-8737
Web: www.2gai.com

SCALE: AS NOTED	PROJECT: <div>24061</div>
START DATE: DEC 2024	
DRAWN J.M.	DRAWING: <div>E1.00</div>
CHECKED J.M.	
PRINT DATE	01/16/25



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E1.00

ELECTRICAL SITE PLAN

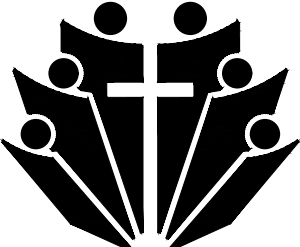
SCALE: 1:300

EQUIPMENT LIST:

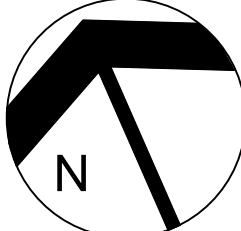
- (A) EXISTING 400A - 120/2208V/3PH/4W PANEL LOCATED IN EXISTING PORTABLE CLOSET. PROVIDE NEW 125/2P BREAKER FOR NEW RELOCATED PORTABLE.
- (B) EXISTING IT RACK LOCATED IN EXISTING PORTABLE CLOSET.
- (C) EXISTING CAREHAWK P.A. PANEL PANEL IN COMMUNICATION ROOM. CONTRACTOR TO PROVIDE P.A. WIRING AND CONDUIT AS REQUIRED TO THE RELOCATED PORTABLE FROM THIS PANEL.

DRAWING NOTES:


- ① PROVIDE NEW UNDERGROUND DUCTBANK FROM THE EXTERIOR OF THE EXISTING PORTABLE STUBBED UP IN RELOCATED PORTABLE AS INDICATED:
- 1 - 41mm (1-1/2") DIA. DB2 CONDUIT FOR PORTABLE POWER.
 - 1 - 53mm (2") DIA. DB2 FOR PORTABLE DATA.
- PROVIDE NEW PULL STRINGS FOR EACH RESPECTIVE CONDUIT FOR PULLING OF NEW CABLES. CONTRACTOR TO PROVIDE LOCATES OF THE AREA TO ENSURE NO DISRUPTION TO EXISTING SERVICES. REFER TO DETAIL 2/E0.01 FOR MORE INFORMATION.
- ② PROVIDE NEW UNDERGROUND DUCTBANK FROM THE EXTERIOR OF THE MAIN SCHOOL STUBBED UP IN NEW PORTABLE AS INDICATED:
- 1 - 53mm (2") DIA. DB2 FOR PORTABLE DATA.
- PROVIDE NEW PULL STRINGS FOR EACH RESPECTIVE CONDUIT FOR PULLING OF NEW CABLES. CONTRACTOR TO PROVIDE LOCATES OF THE AREA TO ENSURE NO DISRUPTION TO EXISTING SERVICES. REFER TO DETAIL 1/E0.01 FOR MORE INFORMATION.
- ③ PROVIDE NEW POWER FEEDER FROM EXISTING PANEL IN EXISTING PORTABLE FOR THE RELOCATED PORTABLE. PROVIDE 3#1AWG + GND IN 41mm (1-1/2") DIA. UNDERGROUND DB2 CONDUIT TERMINATED IN THE PORTABLE PANEL. CONFIRM ON SITE EXACT ROUTING PRIOR TO TENDERING.
- ④ PA FEEDERS/CONDUITS TO BE ROUTED TO THE EXTERIOR OF THE MAIN SCHOOL AND ROUTED UNDERGROUND TO THE PORTABLE LOCATION. CONTRACTOR TO CONFIRM EXACT ROUTING OF ALL SERVICES FROM THEIR RESPECTIVE PANELS TO THE EXTERIOR PRIOR TO TENDERING.
- ⑤ PROVIDE NEW WIRING FOR THE FIRE ALARM DEVICES IN THE RELOCATED PORTABLE FED FROM THE EXISTING PORTABLE FIRE ALARM CIRCUITRY. NEW FEEDERS TO BE ROUTED VIA CONDUIT FROM THE EXISTING PORTABLE TO THE RELOCATED PORTABLE. PROVIDE NEW PULL STRINGS AS REQUIRED FOR PULLING OF NEW CABLES. CONTRACTOR TO PROVIDE LOCATES OF THE AREA TO ENSURE NO DISRUPTION TO EXISTING SERVICES.



Hamilton-Wentworth
Catholic District School Board




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LICENSED PROFESSIONAL ENGINEER
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**ELECTRICAL
SITE PLAN**

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SCALE: AS NOTED	PROJECT: 24061
START DATE: DEC 2024	
DRAWN J.M.	DRAWING: E1.00
CHECKED J.M.	
PRINT DATE	01/16/25