

ADDENDUM No. 5

Project	T.A. Blakelock H.S. Renovations - Phase 1	Project No.	2215A
Location	1160 Rebecca Street, Oakville, Ontario	Date of Issue	2023 04 04
Owner	Halton District School Board	File	2215/7.1.3

This Addendum forms part of the Contract Documents and amends the original Drawings and Specifications, dated 2023 03 16, as noted below.

Ensure all parties submitting bids are aware of all items included in this Addendum. Read, interpret and coordinate the items contained herein with the Contract Documents and include all related costs as part of the Bid Price. Acknowledge receipt of this Addendum by inserting its number on the Bid Form. Failure to do so may subject the bidder to disqualification.

This Consultant Addendum consists of 2 pages + noted attachments.

A5-1 PROJECT MANUAL SECTION 09 51 23 ACOUSTIC TILE CEILINGS

.1 Provide yoke (Armstrong TechZone Yoke or equivalent) as required at floating ceiling panels to achieve ceiling tile and light fixture configuration as shown on reflected ceiling plans.

A5-2 PROJECT MANUAL SECTION 10 51 13 METAL LOCKERS

- .1 Revise all Metal Lockers to Sloped Tops.
- .2 Delete requirement for Extra Stock Material.

A5-3 DRAWING NO. 300 LEVEL 0 REFLECTED CEILING PLANS AND DETAILS (reissued)

- .1 Replace drawing with the attached Revision No. 3.
- .2 Revisions include the following:
 - .1 Corridor C001 ACT & Gypsum board ceiling extent.

A5-4 DRAWING NO. 900 DOOR SCHEDULE AND DOOR & SCREEN TYPES & DETAILS (reissued)

- .1 Replace drawing with the attached Revision No. 2
- .2 Revisions include the following:
 - .1 Revise Screen 'S06' as shown to accommodate new steel post between door & screen frame as per Structural Addendum No. 1
 - .2 Replace 'GL-01' with 'GL-7' in Screen 'S01'
 - .3 Replace 'FG-C' with 'GL-3'
 - .4 Replace 'FG-E' with 'GL-6'

2215A1 T.A. Blakelock H.S. Renovations - Phase 1 - Addendum No. 5 2 of 2

- .5 Replace 'SG-A' with 'SIG_CLR-1'
- .6 Door Frame & Screen Schedule Replace 'FG-C' with 'GL-3' and Replace 'FG-D' with 'GL6'
- .7 Door Frame & Screen Schedule Revise glazing type to 'GL-6' for Door no. 107, 108, 111

A5-5 DRAWING NO. 901 DOOR FRAME DETAILS & WINDOW TYPES

.1 Replace 'SG-A' with 'SIG-CLR-1'

A5-6 STRUCTURAL

.1 Refer to the attached Structural Addendum No. 1. prepared by Kalos Engineering, dated April 4, 2023.

A5-7 BIDDER QUESTIONS

Q1: How many days is the bid validity period?

A1: Revise Bid Expiry Period to 30 days.

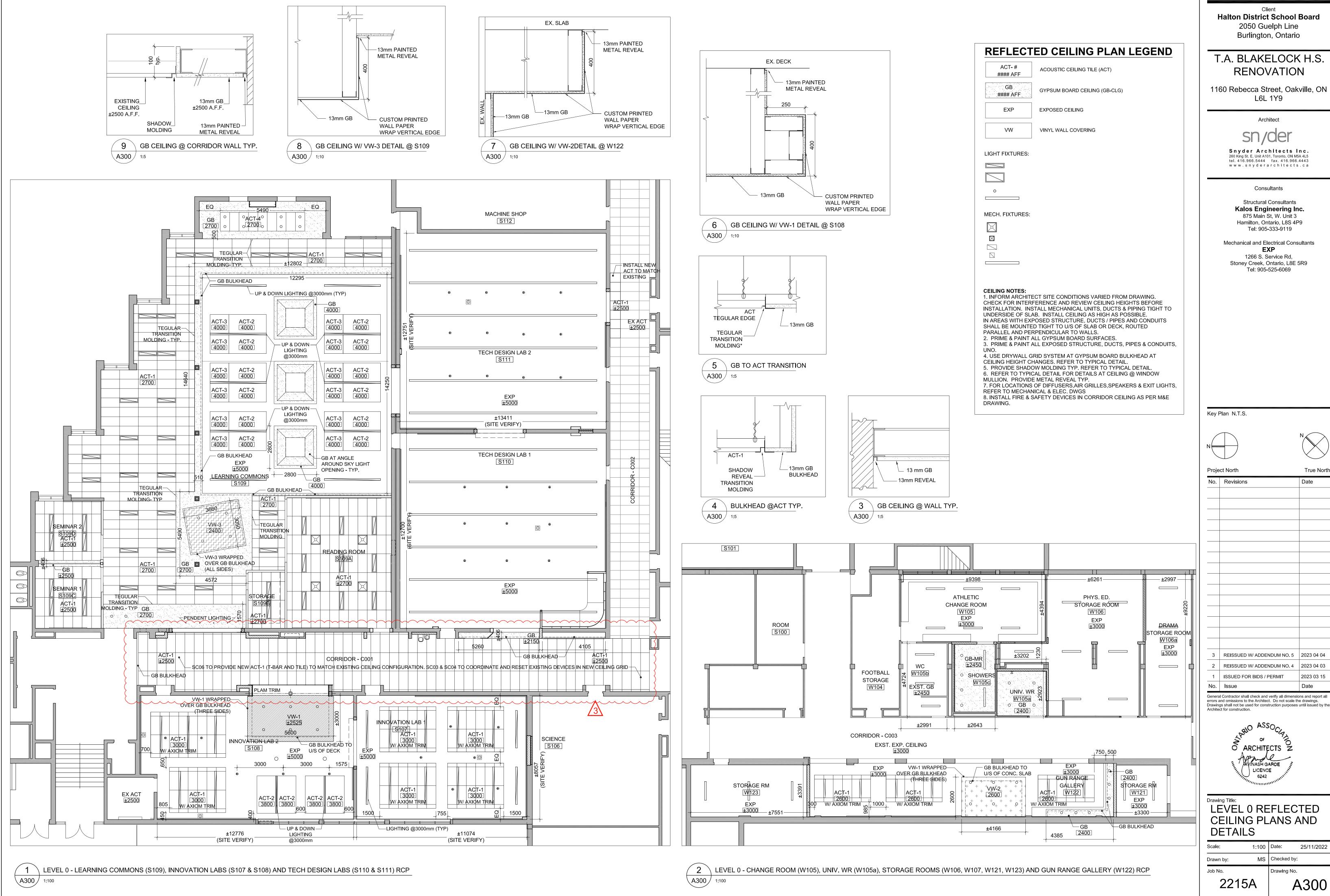
Q2: Is it possible to get an extension on this project, we have 5 tenders already closing on the 6ths. Please let me know your thoughts, thank you for your time and consideration.

A2: As the bid closing date is only 2 days away, we cannot extend it.

Q3: Single and double hooks are specified in sections 10 28 13. Please provide location

A3: SC01 GENERAL to provide hooks as shown in Washroom Elevations. Include one Collapsible Single Hook at each toilet partition.

END OF ADDENDUM No. 5



Halton District School Board 2050 Guelph Line Burlington, Ontario

T.A. BLAKELOCK H.S.

RENOVATION

L6L 1Y9

Architect

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Consultants

Structural Consultants Kalos Engineering Inc. 875 Main St, W. Unit 3 Hamilton, Ontario, L8S 4P9 Tel: 905-333-9119

Mechanical and Electrical Consultants EXP 1266 S. Service Rd,

Tel: 905-525-6069



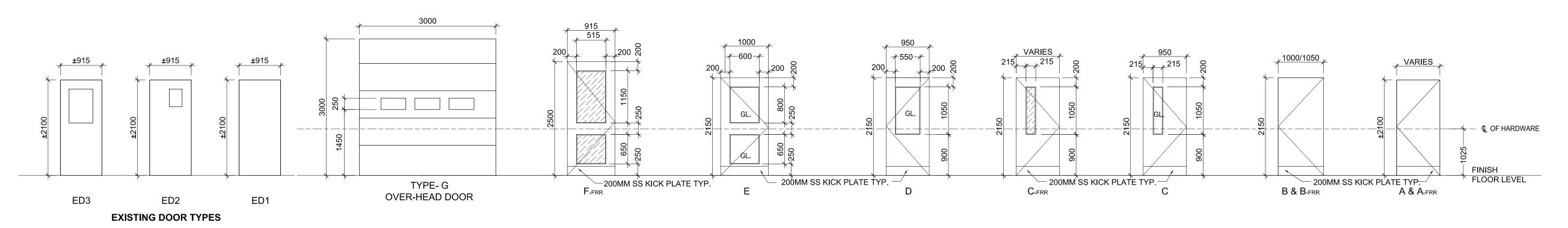


Project North True North No. Revisions Date REISSUED W/ ADDENDUM NO. 5 ISSUED FOR BIDS / PERMIT 2023 03 15 General Contractor shall check and verify all dimensions and report all errors and omissions to the Architect. Do not scale the drawings. Drawings shall not be used for construction purposes until issued by the



Drawing Title: LEVEL 0 REFLECTED **CEILING PLANS AND DETAILS**

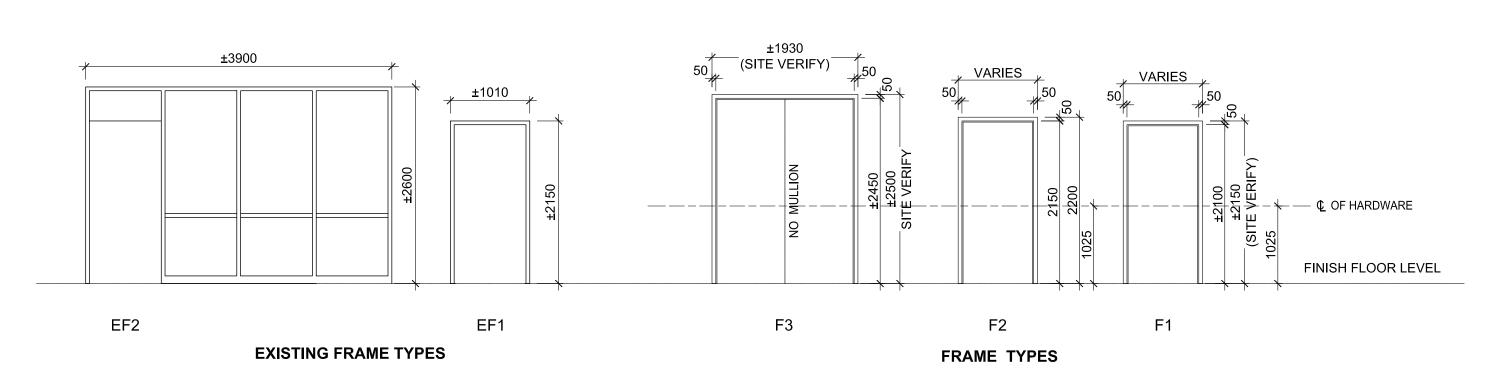
1:100 Date: 25/11/2022 MS Checked by: 2215A A300



1 \ INTERIOR DOOR TYPES A900 1:50

1. ALL GLAZING ASSEMBLIES WITH SILL BELOW 1070mm FROM

- FINISHED FLOOR LEVEL, TO BE DESIGNED AS GUARD, PER OBC. 2. ALL INTERIOR DOORS AND SCREENS TO HM & GLAZING TO BE TEMPERED SAFETY GLASS 'GL-3', UNLESS NOTED OTHERWISE.
- 3. ALL EXTERIOR DOORS AND SCREENS TO BE ALUMINUM & GLAZING TO BE SEALED INSULATED GLASS UNIT 'SIG-CLR-1', UNLESS NOTED OTHERWISE.
- 4. GLAZING IN FIRE RATED SEPARATIONS TO BE 'GL-6' FIRE-RATED GLASS. REFER TO DOOR SCHEDULE
- 5. ALL FRAME IN FIRE SEPARATION AREAS TO BE FIRE RATED (FRR)



GL-3: TEMPERED SAFETY GLASS

GL-6: FIRE-RATED GLASS 1 H-R

DOOR FRAME TYPES A900 1:50

- 1. ALL GLAZING ASSEMBLIES WITH SILL BELOW 1070mm FROM FINISHED FLOOR LEVEL, TO BE DESIGNED AS GUARD, PER OBC.
- 2. ALL INTERIOR DOORS AND SCREENS TO HM & GLAZING TO BE TEMPERED SAFETY GLASS 'GL-03', UNLESS NOTED OTHERWISE.
- 3. ALL EXTERIOR REPLACEMENT GLAZING TO BE SEALED INSULATED GLASS UNIT 'SIG-CLR-1, UNLESS NOTED OTHERWISE.
- 4. GLAZING IN FIRE RATED SEPARATIONS TO BE 'GL-6' FIRE-RATED GLASS. REFER TO DOOR SCHEDULE
- 5. ALL FRAME IN FIRE SEPARATION AREAS TO BE FIRE RATED (FRR)



2215A - T A Blakelock HS Renovation

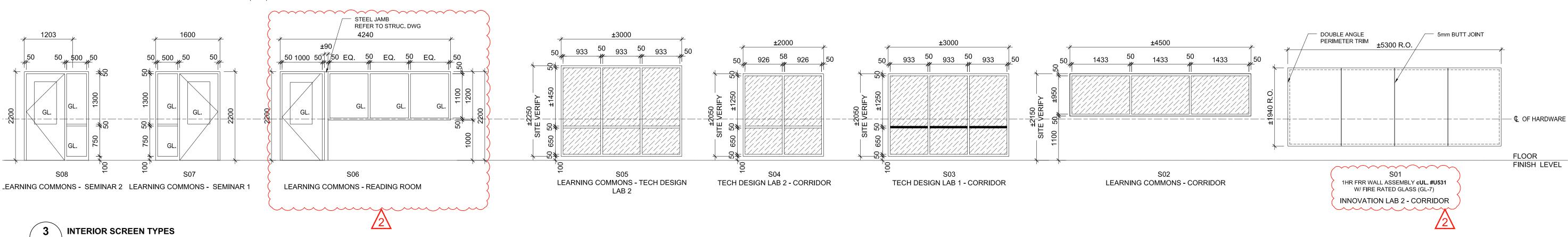
DOOD	EDAME & CODERN COLLEGE								Date	San Did	03/03/	2023			Revised:
DOOR,	FRAME & SCREEN SCHEDU	ILE							ISSUOG	for Bid	8				
	LOCATION	DOOR					SCREEN	FRAME					T		
DOOR No.		Туре	Width	Ht	Fin.	Mat.	Glaz.	Туре	Туре	Jamb Type	Head Size	Fin.	Mat.	FRR (min)	REMARKS
EVEL 0						(~~								
107	S107 INNOVATION LAB 1	C-FRR	915	2000	V		GL-6		EF1			Р		45	Refer to Door & Frame Note no. 3
108	S108 INNOVATION LAB 2	C-FRR	915	2000	٧		GL-6		EF1			Р		45	Refer to Door & Frame Note no. 3
E108A	S108 INNOVATION LAB 2	ED1			Р				EF1			P			
108B	S108 INNOVATION LAB 2	ОН	3000	3000				1							
E109	S109 LEARNING COMMONS	ED1			Р	>		ES	EF2			Р			Paint screen frame
109	S109 LEARNING COMMONS	F-FRR	915x2	2450	Р	HM	GL-6	-	F3	D3		Ρ	НМ	45	Maintain 1 HRR & Site verify height
109A	S109A READING ROOM	E	1000	2150	P	HM	GL-3	S06		J1		P	НМ		
109B	S109B STORAGE	С	950	2150	Р	HM	GL-3	-	F2	J1		Р	НМ		
109C	S109C SEMINAR	D	950	2150	Р	HM	GL-3	S07		J1		Р	НМ		
109D	S109D SEMINAR	D	950	2150	Р	HM	GL-3	S08		J1		P	НМ		
109E	S109 LEARNING COMMONS	C-FRR	1000	2000	P	HM	GL-6) -	F1	D3		P	НМ	45	Maintain 1 HRR & Site verify height
110	S110 TECH DESIGN LAB 1	C-FRR	915	2000	٧	>	GL-6)	EF1			P		45	Refer to Door & Frame Note no. 3
110A	S110 TECH DESIGN LAB 1	C-FRR	915	2000	V	}	GL-6	1	EF1			Р		45	Refer to Door & Frame Note no. 3
E110B	S110 TECH DESIGN LAB 1	ED3			Р	(EF1			Р		_	
110C	S110 TECH DESIGN LAB 1	ОН	3000	3000		(
111	S111 TECH DESIGN LAB 2	C-FRR	915	2000	V	}	GL-6)	EF1			P		45	Refer to Door & Frame Note no. 3
E111A	S111 TECH DESIGN LAB 2	ED1			P	>		1	EF1			P			
E105	W105 ATHLECTIC CHANGE RM	ED1		Î	Р	}			EF1			Р		_	
E105B	W105 ATHLECTIC CHANGE RM	ED1			P	(EF1			P			
105A	W105A UNIVERSAL WASHROOM	A-FRR	950	2100	P	HM	-	-	F1	D1		P	НМ	45	Maintain 1 HRR, PDO & Site verify
106	W106 PHYS. ED. STORAGE RM	C-FRR	1000	2100	Р	HM	GL-6	-	F1	D1		Р	НМ	45	Maintain 1 HRR & Site verify height
	W106A DRAMA STORAGE	ED1			Р				F1			Ρ			
EVEL 1	-														
111	W111 UNIVERSAL WASHROOM	A-FRR	950	2100	Р	НМ	-	<u></u>	F1	D2		Р	НМ	45	Maintain 1 HRR, PDO & Site verify
E112	W112 STORAGE	ED2			P	>			EF1			Р			
E113	W113 BOYS CHANGE ROOM	ED1			P	\		1	EF1			P			
117	W117 PHYS. ED. STORAGE	C-FRR	1000	2100	P	HM	GL-6	-	F1	D2		P	НМ	45	Maintain 1 HRR & Site verify height
118	W118 GIRLS CHANGE ROOM	A-FRR	950	2100	P	HM	-	-	F1	D2		P	НМ	45	Maintain 1 HRR & Site verify height

 All HM door frames to have appropriate reinforcing. 2- Provide appropiated transition strip and threshold at flooring change, to meet OBC barrier free requirement.

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Legend		$\sim\sim$				
E	Exiating	GL-3	Tempered Glass	P	Paint	V
HM	Hollow Metal	GL-6	Fire Rated Glass	GL	Glass Door	

DOOR & FRAME NOTES:

- 1. AS NOTED ALL EXISTING DOORS ARE HM FRAME W/ HM DOOR PANEL.
- 2. PAINT ALL EXISTING DOOR & SCREEN FRAME IN RM S109, S110, S111, W105, W106a & W113.
- 3. SC01 TO INCLUDE INSTALLATION OF CUSTOM PRINTED VINYL WRAP ON EX. DOOR PANELS IN RM S107, S108, S110 & S111 BY WINDOW FILM SYSTEMS. (519-641-7803) CUSTOM GRAPHIC TO BE PRINTED ON 'INFEEL' SOLID COLOUR - SL589. GRAPHIC DESIGN TO BE PROVIDED BY OWNER.



Client **Halton District School Board** 2050 Guelph Line Burlington, Ontario

T.A. BLAKELOCK H.S. RENOVATION

1160 Rebecca Street, Oakville, ON L6L 1Y9

Architect

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Mechanical and Electrical Consultants EXP

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Key Plan N.T.S.



True North Project North No Revisions Date

2 | REISSUED W/ ADDENDUM NO. 5 | 2023 04 04 ISSUED FOR BIDS / PERMIT 2023 03 15 No. Issue

General Contractor shall check and verify all dimensions and report all errors and omissions to the Architect. Do not scale the drawings. Drawings shall not be used for construction purposes until issued by the



DOOR SCHEDULE AND **DOOR & SCREEN TYPES** & DETAILS

AS NOTED Date: 25/11/2022 MS Checked by: Drawing No.

A900

∖A900



T.A. Blakelock H.S. Renovation – Phase 1 1160 Rebecca Street, Oakville, Ontario

STRUCTURAL ADDENDUM No. 1

April 4, 2023

The following amendments/clarifications to the Tender Documents are considered to form part of this Tender.

No consideration will be given for extras and/or changes due to the Bidder not being familiar with the contents of this Addendum.

Bidders are to acknowledge this Addendum by signing and enclosing this addendum of this document with their submission.

The following Addendum has been issued to make clarifications, revisions, additions and/or deletions to the various areas of the Request for Tender.

This addendum shall be incorporated in the specifications and drawings and shall form part of the contract documents:

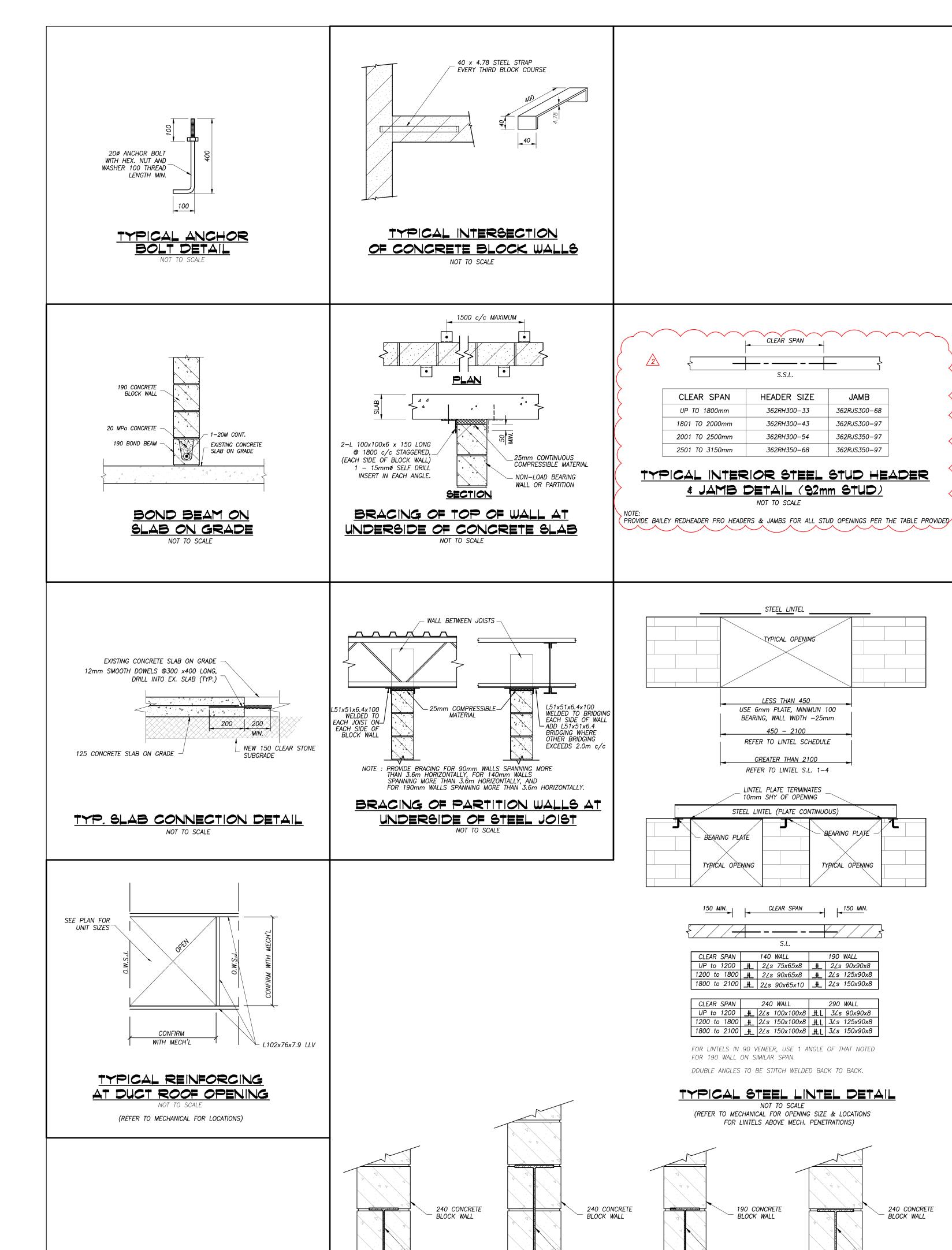
1. AMENDMENTS TO DRAWINGS:

- A. <u>Drawing So.o1:</u>
 - a. Steel stud header and jamb schedule updated.
 - b. Submittals notes updated.
- B. Drawing S₃.00:

- N/A

a. Curtain support framing added in Tech Design Lab S110

2. ATTACHMENTS TO THIS DOCUMENT:



8mm PL.x230

W410x54 +

8mm PL.x230

W200x27 +

8mm PL.x180

W200x36 +

8mm PL.x230

GENERAL NOTES

- . CHECK ALL DIMENSIONS ON THESE DRAWINGS WITH ALL OTHER DRAWINGS, INCLUDING BUT NOT LIMITED TO DRAWINGS PREPARED ARCHITECTURAL, MECHANICAL OR ELECTRICAL CONSULTANTS. REPORT ANY INCONSISTENCIES TO THE ENGINEER PRIOR TO COMMENCING WITH THE WORK. DO NOT SCALE THE DRAWINGS
- 2. THE DESIGN LIVE LOADS ARE INDICATED ON THE DRAWINGS. RENOVATION LOADS SHALL NOT EXCEED THE DESIGN LOADS.
- 3. THE CONTRACTOR SHALL PROVIDE ALL TEMPORARY BRACING. SHORING AND ANY OTHER TEMPORARY OR PERMANENT MEASURES AS REQUIRED DURING RENOVATION. THE CONTRACTOR SHALL PROVIDE ALL TEMPORARY SUPPORT OF EXISTING OR ADJACENT STRUCTURES AS REQUIRED. ALL BRACING AND SHORING IS THE RESPONSIBILITY OF THE CONTRACTOR
- 4. REFER TO OTHER CONSULTANTS DRAWINGS FOR DETAILS NOT INDICATED ON THE STRUCTURAL DRAWINGS.
- 5. THE STRUCTURAL DRAWINGS SHALL BE READ IN CONJUNCTION WITH ALL OTHER CONTRACT DRAWINGS AND SPECIFICATIONS.
- 6. CLARIFY ANY QUERIES WITH THE ENGINEER REGARDING THE INTERPRETATION OF THE DRAWINGS, PRIOR TO THE COMMENCEMENT OF ANY WORK.

CONCRETE NOTES

- ALL STRUCTURAL CONCRETE FLEMENTS HAVE BEEN DESIGNED IN ACCORDANCE WITH CSA STANDARD CAN/CSA A23.3. ALL CONCRETE CONSTRUCTION SHALL BE IN ACCORDANCE WITH CSA STANDARD CAN/CSA A23.1.
- MINIMUM CONCRETE STRENGTH AT 28 DAYS SHALL BE:
- FOOTINGS 25 MPa TYPE N SLAB ON GRADE 25 MPa TYPE N SLUMP SHALL BE 75mm± 25mm. AGGREGATE SHALL BE 20mm MAXIMUM.
- AIR ENTRAINED TO BE 6% \pm 1% WHEN EXPOSED TO EXTERIOR. CONTRACTOR TO SUBMIT CONCRETE MIX DESIGN FOR REVIEW. . THE DEFORMED REINFORCING STEEL SHALL CONFORM TO CSA STANDARD G30.18M GRADE 300R FOR STIRRUPS AND TIES AND GRADE 400R FOR ALL OTHER REINFORCING. UNLESS OTHERWISE
- NOTED THE REINFORCING LAP LENGTH SHALL BE 'CLASS B' IN SPLICES. ALL REINFORCING HOOKS AND BENDS SHALL BE IN ACCORDANCE WITH A23.1. . WELDED WIRE FABRIC SHALL BE IN ACCORDANCE WITH CSA G30.5. ALL MESH SHALL BE CHAIRED PRIOR TO THE CONCRETE POUR. LIFTING OF THE MESH DURING THE CONCRETE POUR WILL NOT
- PERMITTED. ALL SPLICES SHALL BE A MINIMUM OF TWO CROSS WIRE SPACINGS PLUS 50mm.
- 5. THE REINFORCING COVER FOR CONCRETE SHALL BE:
- 75mm FOR CONCRETE AGAINST EARTH
- 40mm FOR FORMED CONCRETE EXPOSED TO EARTH OR WEATHER WHERE THE REINFORCING BAR IS 15M OR SMALLER
- 50mm FOR FORMED CONCRETE EXPOSED TO EARTH OR WEATHER WHERE THE REINFORCING BAR IS 20M OR LARGER
- 25mm FOR INTERIOR CONCRETE. ALL CHAIRS, BOLSTERS, SPACERS AND BAR SUPPORTS SHALL BE IN ACCORDANCE WITH
- . FOOTINGS SHALL BEAR ON NATIVE UNDISTURBED SOIL WITH A MINIMUM BEARING RESISTANCE OF:
- 100 kPa (SLS)
- 150 kPa (ULS) THE CONTRACTOR SHALL VERIFY THE CAPACITY PRIOR TO
- PLACEMENT OF CONCRETE. . THE LINE OF SLOPE BETWEEN ADJACENT FOOTINGS OR EXCAVATION
- OR STEP DOWN FOOTINGS SHALL NOT EXCEED A RISE OF 7 IN A RUN OF 10. STEP HEIGHT SHALL NOT EXCEED 600mm. B. KEEP EXCAVATIONS DRY BEFORE CONCRETE IS PLACED. REMOVE ALL LOOSE MATERIAL, SOFT SOIL OR WATER PRIOR TO PLACING CONCRETE. PROVIDE A 75mm MUD SLAB FOR ALL FOOTINGS
- 9. THE FOOTING DESIGN IS BASED ON INFORMATION AVAILABLE AT THE TIME OF DESIGN. THE FOOTING DESIGN MAY BE ALTERED DURING CONSTRUCTION. IF THE SITE CONDITIONS WARRANT. BUT
- ONLY WITH THE EXPRESS PERMISSION OF THE ENGINEER. 10. ALL ADHESIVE ANCHORS SHALL BE INSTALLED IN ACCORDANCE WITH THE HILTI HIT-HY200 (OR APPROVED EQUAL) PROCEDURES.

LIGHT GAUGE STEEL FRAMING NOTES

- <u>GENERAL</u> I. THESE NOTES APPLY TO THE STEEL STUD FRAMING COMPONENT OF THE EXTERIOR WALL SYSTEM ONLY.
- 2. THE DESIGN WIND LOADING IS 1.2kN/m² (25 PSF) DETERMINED BY O.B.C.
- REQUIREMENTS AND CAN-S136. DEFLECTION IS LIMITED TO L/360.
- 3. THE DESIGN OF FRAMING SYSTEM IS BASED ON PUBLISHED STUD SECTION PROPERTIES BY BAILEY METAL PRODUCTS LIMITED.

- THE MINIMUM BASE METAL THICKNESS FOR ALL METAL WALL COMPONENTS, EXCLUDING COATINGS ARE NOTED ON THE DRAWINGS.
- 2. STEEL MEETS THE REQUIREMENTS OF A.S.T.M. A653/A653M SS GRADE 33 (230) FOR 1.22mm MATERIAL AND THINNER, AND SS GRADE 50 (340) CLASS 1 FOR 1.52mm MATERIAL AND THICKER.
- 3. GALVANIZING TO BE HOT-DIP PROCESS, G90 (Z275).

EXECUTION

- . METHOD OF CONSTRUCTION SHALL BE BY STICK BUILDING ON SITE.
- 2. CONNECTIONS SHALL BE ACCOMPLISHED BY SELF DRILLING SCREWS AND OTHER FASTENERS AS SHOWN ON THESE DRAWINGS. PENETRATION BEYOND JOINED MATERIALS SHALL BE NOT LESS THAN THREE EXPOSED THREADS. ALL CONNECTORS USED IN ASSEMBLIES SHALL BE OF CORROSION RESISTANT MATERIAL COMPATIBLE WITH GALVANIZED COATINGS WITH A MINIMUM COATING THICKNESS OF 0.039mm ZINC OF CADMIUM PLATES. NO BLACK CONNECTORS WILL BE ACCEPTED. SUBSTITUTIONS MUST BE APPROVED BY THE ENGINEER.
- 3. SCREWS COVERED BY SHEATHING MATERIALS SHALL HAVE LOW PROFILE
- 4. WIRE TYING IS NOT PERMITTED IN STRUCTURAL APPLICATIONS.
- 5. CUTTING OF STEEL FRAMING MEMBERS SHALL BE BY SAW OR SHEAR. NO

TORCH OR MANUAL CUTTING IS PERMITTED.

- 6. SPLICING OF STUDS OR TRACK IS NOT PERMITTED EXCEPT AS NOTED ON
- BRIDGING SHALL BE OF SIZE, SPACING AND TYPE SHOWN ON THE DRAWINGS AND SHALL BE INSTALLED SO AS TO PROVIDE RESISTANCE TO MINOR AXIS BENDING AND ROTATION OF STUDS. PROVIDE BRIDGING AT 1200mm c/c
- 8. TEMPORARY BRACING SHALL BE PROVIDED AND LEFT IN PLACE UNTIL WORK IS PERMANENTLY STABILIZED.
- 9. STUDS SHALL SEAT INTO TOP AND BOTTOM TRACKS WITH THE GAP BETWEEN
- THE END OF THE STUD AND WEB OF THE TRACK NOT TO EXCEED 3mm.
- 10. VERTICAL ALIGNMENT (PLUMBNESS) OF STUDS SHALL BE WITHIN 1/1000 OF
- 11. HORIZONTAL ALIGNMENT (LEVELNESS) OF WALLS SHALL BE WITHIN 1/1000 OF THEIR RESPECTIVE LENGTHS.
- 12. SPACING OF STUDS SHALL BE WITHIN 3mm FROM DESIGN SPACING PROVIDED THAT CUMULATIVE ERROR DOES NOT EXCEED THE REQUIREMENTS OF THE FINISHING MATERIALS.

MASONRY NOTES

- 1. ALL STRUCTURAL ELEMENTS HAVE BEEN DESIGNED IN ACCORDANCE WITH CSA STANDARD S304.1. ALL MASONRY CONSTRUCTION SHALL BE IN ACCORDANCE WITH CSA STANDARD A371. ALL MASONRY CONNECTORS, REINFORCING AND TYING SHALL BE IN ACCORDANCE WITH CSA A370. ALL MORTAR AND GROUT SHALL BE IN ACCORDANCE WITH A179.
- 2. ALL CONCRETE BLOCKS SHALL BE NORMAL WEIGHT TYPE H/15/A/M UNLESS OTHERWISE NOTED. MORTAR SHALL BE TYPE
- S FOR LOADBEARING AND TYPE N FOR NON-LOADBEARING. 3. VERTICAL CONTROL JOINTS SHALL BE PROVIDED AT A MAXIMUM SPACING OF 6000mm. REFER TO ARCHITECTURAL DRAWING FOR
- 4. TRIM ALL OPENINGS WITH 2-15M BARS.

DETAILS AND LOCATIONS.

- 5. GROUT SHALL CONSIST OF ON ONE PART PORTLAND CEMENT. THREE PARTS SAND (MAXIMUM AGGREGATE SIZE SHALL BE 10mm) WITH WATER TO PROVIDE A MINIMUM 10MPa COMPRESSIVE STRENGTH AT 28 DAYS. SLUMP SHALL BE 200mm
- 6. ALL CELLS CONTAINING REINFORCING SHALL BE GROUTED SOLID. TWO BLOCK COURSES BELOW BEARING PLATES SHALL BE GROUTED SOLID.
- 7. THE MASONRY SHALL BE CONSTRUCTED EVENLY WITH MAXIMUM LIFTS OF 1200 PER DAY. DO NOT TOOTH AND BOND OR STACK BOND MASONRY. RAKE BACK ENDS OF UNFINISHED WALLS.
- 8. ALL MORTAR JOINTS SHALL BE TOOLED (CONCAVE). A MINIMUM BED JOINT OF 6mm IS REQUIRED FOR THE STARTING COURSE TO A MAXIMUM OF 20mm. THE BED JOINTS SHALL BE 10mm.
- 9. PROVIDE VERTICAL AND HORIZONTAL REINFORCING AS FOLLOWS UNLESS NOTED OTHERWISE ON THE DRAWINGS. - 140 CONCRETE BLOCK - 10M VERTICAL AT 600 O.C. & HEAVY DUTY TRUSS TYPE HORIZONTAL REINFORCING EVERY
- SECOND COURSE. - 190 CONCRETE BLOCK - 15M VERTICAL AT 800 O.C. & HEAVY DUTY TRUSS TYPE HORIZONTAL REINFORCING EVERY
- SECOND COURSE. - 240 CONCRETE BLOCK - 20M VERTICAL AT 600 O.C. &
- HEAVY DUTY TRUSS TYPE HORIZONTAL REINFORCING EVERY 10. THE HORIZONTAL REINFORCING AT EXTERIOR WALLS SHALL BE
- GALVANIZED. DO NOT EXTEND HORIZONTAL REINFORCING THROUGH CONTROL JOINTS UNLESS OTHERWISE NOTED. 11. PROVIDE A STEEL LINTEL OVER ALL OPENINGS OR RECESSES INCLUDING OPENINGS FOR MECHANICAL AND ELECTRICAL
- GAI VANIZED 12. BUILD THE MASONRY SOLID AROUND ALL BEAM, LINTEL AND JOIST POCKETS. INSTALL BEARING PLATES AT THE SPECIFIED ELEVATION AND GROUT THE PLATE INTO THE WALL A MINIMUM

OF 400mm.

COMPONENTS. ALL EXTERIOR LINTELS TO BE HOT DIP

13. PROVIDE TEMPORARY BRACING AS REQUIRED TO SUPPORT THE MASONRY WALLS IN CONSTRUCTION. PROTECT THE MASONRY WALLS FROM THE ELEMENTS AT ALL TIMES EXCEPT DURING CONSTRUCTION PROGRESS.

STRUCTURAL STEEL NOTES

- 1. ALL STRUCTURAL STEEL ELEMENTS, INCLUDING DESIGN OF ELEMENTS AND CONNECTIONS SHALL BE IN ACCORDANCE WITH CAN/CSA S16.
- 2. ALL STRUCTURAL STEEL SHALL CONFORM TO CSA G40.21 (300W) EXCEPT W SECTIONS AND PLATES G40.21 (350W), HSS MEMBERS G40.21 (350W) CLASS C OR ASTM A500 GRADE C, ANCHOR BOLTS ASTM A307, COLD FORMED SECTIONS ASTM A570M GRADE 350W. UNLESS OTHERWISE NOTED, ALL SECTIONS SHALL BE PRIME PAINTED WITH THE SURFACE PREPARATION AND PAINTING PROCEDURES IN ACCORDANCE WITH CAN/CGSB 85.10.
- 3. ALL WELDING SHALL BE CARRIED OUT IN ACCORDANCE WITH CAN/CSA W59. THE STEEL FABRICATOR SHALL BE FULLY QUALIFIED UNDER THE REQUIREMENTS BY THE CANADIAN WELDING BUREAU IN CONFORMANCE WITH CAN/CSA W47.1.
- 4. DESIGN ALL MOMENT AND SHEAR CONNECTIONS FOR THE FULL CAPACITY OF THE SMALLER MEMBER IN THE CONNECTION UNLESS OTHERWISE
- 5. PROVIDE MINIMUM BEARING LENGTH OF STEEL MEMBERS AS FOLLOWS:
- ON MASONRY 150mm
- ON STEEL 90mm 6. THE BASE PLATE AND BEARING PLATE GROUT SHALL BE OF THE

WITH THE PERMISSION OF THE ENGINEER.

- CEMENTITIOUS NON-SHRINK TYPE.
- DECK SHALL BE EITHER 38mm OR 76mm DEEP IN ACCORDANCE WITH CSA S136 AND SHALL BE FABRICATED FROM ASTM A653 SS GRADE 230 GALVANIZED STEEL WITH A ZF75 GALVANNEAL OR Z275 GALVANIZED ZINC COATING. THE MINIMUM NOMINAL STEEL CORE THICKNESS SHALL BE 0.76mm. STEEL DECK SHALL BE FASTENED TO THE SUPPORT STRUCTURE WITH 20mm SPOT WELDS AT NOT MORE THAN 300mm c/c (150mm AT PERIMETER). CLINCH SIDELAPS AT 600mm c/c. ALL WELDS TO BE TOUCHED UP WITH PRIMER. MECHANICAL FASTENERS MAY ONLY BE USED
- 8. FULLY WELD THE BASE PLATE TO THE COLUMN TO DEVELOP THE ANCHOR BOLTS. PROVIDE CAP PLATES ON ALL COLUMNS. PROVIDE 6mm CAP PLATES ON ALL COLUMNS.
- 9. PROVIDE MINIMUM 175x10x175 BEARING PLATES FOR ALL STRUCTURAL
- STEEL c/w 2-150 ANCHORS UNLESS OTHERWISE NOTED. 10. ALL BOLTS SHALL BE TIGHTENED WITH A SUITABLE TORQUE WRENCH IN
- ACCORDANCE WITH CSA S16.
- 11. ALL STEEL EXPOSED TO THE EXTERIOR TO BE HOT DIP GALVANIZED.
- 12. ERECT STRUCTURAL STEEL IN ACCORDANCE WITH CSA S16 AND IN CONFORMANCE WITH THE APPROVED SHOP DRAWINGS.

- SUBMIT FOR REVIEW BY THE CONSULTANT, DETAILED SHOP DRAWINGS FOR ALL STRUCTURAL WORK INCLUDING, BUT NOT LIMITED TO: TEMPORARY SHORING, STRUCTURAL STEEL, REINFORCING STEEL & COLD-FORMED STEEL STUD.
- 2. THE SCALE OF THE DRAWINGS SHALL BE SUCH THAT THE DETAILS OF THE STRUCTURAL WORK ARE CLEARLY SHOWN, AND IN NO CASE SMALLER THAN 1:50 ($\frac{1}{4}$ "=1'-0").
- 3. THE STRUCTURAL DRAWINGS SHALL NOT BE REPRODUCED, IN WHOLE OR IN PART, FOR USE AS SHOP DRAWINGS.
- 4. EACH SUBMITTAL SHALL BEAR THE SEAL AND SIGNATURE OF A QUALIFIED PROFESSIONAL ENGINEER LICENSED IN THE PROVINCE OF ONTARIO.
- CONTRACTOR SHALL ALLOW FOR A 5 WORKING DAY TURN AROUND TIME FOR STRUCTURAL CONSULTANT TO REVIEW THE SHOP DRAWINGS.

LOADING SUMMARY

DESIGN STANDARDS - ONTARIO BUILDING CODE. 2012. PART 4: STRUCTURAL DESIGN CAN/CSA-A23.3-14. DÉSIGN OF CONCRETE STRUCTURES CAN/CSA-A23.4-16, DESIGN OF PRECAST CONCRETE STRUCTURES

SNOW, ICE AND RAIN LOADS

- SLOPE FACTORS PER CLAUSE 4.1.6.2.(5) TO (7)

0.47 kPa 1/50 YEAR PROBABILITY

0.36 kPa 1/10 YEAR PROBABILITY

2.0 FOR INTERNAL PRESSURES

STRUCTURAL COMMENTARY (PART B), COMMENTARY B.

REFERENCE VELOCITY PRESSURE FOR STRUCTURAL MEMBERS

2.0 FOR WHOLE & MAIN STRUCTURAL MEMBERS

BUILDING INTERNAL PRESSURE CATEGORY 2 PER NBC 2010

FOR SMALL ELEMENTS INCLUDING CLADDING

APPLIED PER OBC, PART 4, SECTION 4.1.6

- DRIFT LOADS PER CLAUSE 4.1.6.2.8

APPLIED PER OBC, PART 4, SECTION 4.1.7

APPLIED PER OBC. PART 4. SECTION 4.1.8

0.129

0.062

0.029

0.167

SOIL CLASS C (ASSUMED)

APPLIED PER OBC, PART 4, TABLE 4.1.5.3

<u>SEISMIC SWAY BRACING</u>

· IMPORTANCE FACTOR, Is

GROUND SNOW LOAD, Ss

- ASSOCIATED RAIN LOAD, S

- ROOF SNOW LOAD, S,

wind loads

- GUST FACTORS Cg:

SEISMIC LOADS

– IMPORTANCE FACTOR. IE

Sa (0.2) Sa (0.5)

FLOOR LOADS

STAIRS

CORRIDORS

- CLASSROOMS

- IMPORTANCE FACTOR, Iw

· WIND EXPOSURE FACTÓR. Ćw

- CAN/CSA-S304.1-14. MASONRY DESIGN FOR BUILDINGS CAN/CSA-S16-14, LIMIT STATES DESIGN OF STEEL STRUCTURES CAN/CSA-S136-16, DESIGN OF COLD FORMED STEEL STRUCTURAL MEMBERS

ROOF STRUCTURE TO BE DESIGNED IN ACCORDANCE WITH CLAUSE 7.4.10.4(2)

REFERENCE VELOCITY PRESSURE FOR CLADDING & NON-STRUCTURAL MEMBERS

4.8 kPa (100 PSF)

2.4 kPa `(50 PSF)

4.8 kPa

ARTICLE 4.1.8.18(2) OF THE ONTARIO BUILDING CODE NOTES THAT IF THE

NOTED ABOVE NEED NOT APPLY. THESE VALUES ARE EXPLORED BELOW. THIS

BASED ON THE ABOVE NOTED VALUES, THE PRODUCT OF IE * Fa * Sa(0.2)

THRESHOLD OF 0.35, THE APPLICATION OF THE LATERAL FORCE (Vp) TO ALL

= 1.3 * 1.0 * 0.260 = 0.338 GIVEN THIS IS LESSER THAN THE

ELEMENTS AND COMPONENTS AND SWAY BRACING IS NOT REQUIRED.

PRODUCT OF IE * Fa * Sa(0.2) IS LESS THAN 0.35, THE REQUIREMENTS

EXEMPTION IS NOT APPLICABLE TO POST-DISASTER BUILDINGS.

DRAWINGS CREATED USING INFORMATION FROM EX. DRAWINGS PREPARED BY:

(1955 ORIGINAL) SHORE & MOFFAT ARCHITECTS. PROJECT NO. 230 DATED 1956/02/06 (1969 ADDITION #2) SHORE & MOFFAT AND PARTNERS. PROJECT NO. 230D DATED 1969/10/20

0.7 (SLS) 1.15 (ULS)

1.3 (ULS)

RENOVATION 0.9 (SLS) 1.15 (ULS) 1.1 kPa´ (22.97 PSÉ) 1160 Rebecca Street, Oakville, ON

0.4 kPa `(8.35 PSF) 1.47 kPa (30.70 PSF)



Halton District School Board

2050 Guelph Line

Burlington, Ontario

T.A. BLAKELOCK H.S.

L6L 1Y9

Architect

Snyder Architects Inc. 260 King St. E, Unit A101, Toronto, ON M5A 4L5 tel. 416.966.5444 fax. 416.966.4443

Structural Consultant

www.snyderarchitects.ca



Tel: 905-333-9119 Project No. 22209

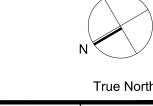
300 York Boulevard, Hamilton, Ontario L8R 3K6

Mechanical and Electrical Consultants

1266 S. Service Rd, Stoney Creek, Ontario, L8E 5R9 Tel: 905-525-6069

Key Plan N.T.S.





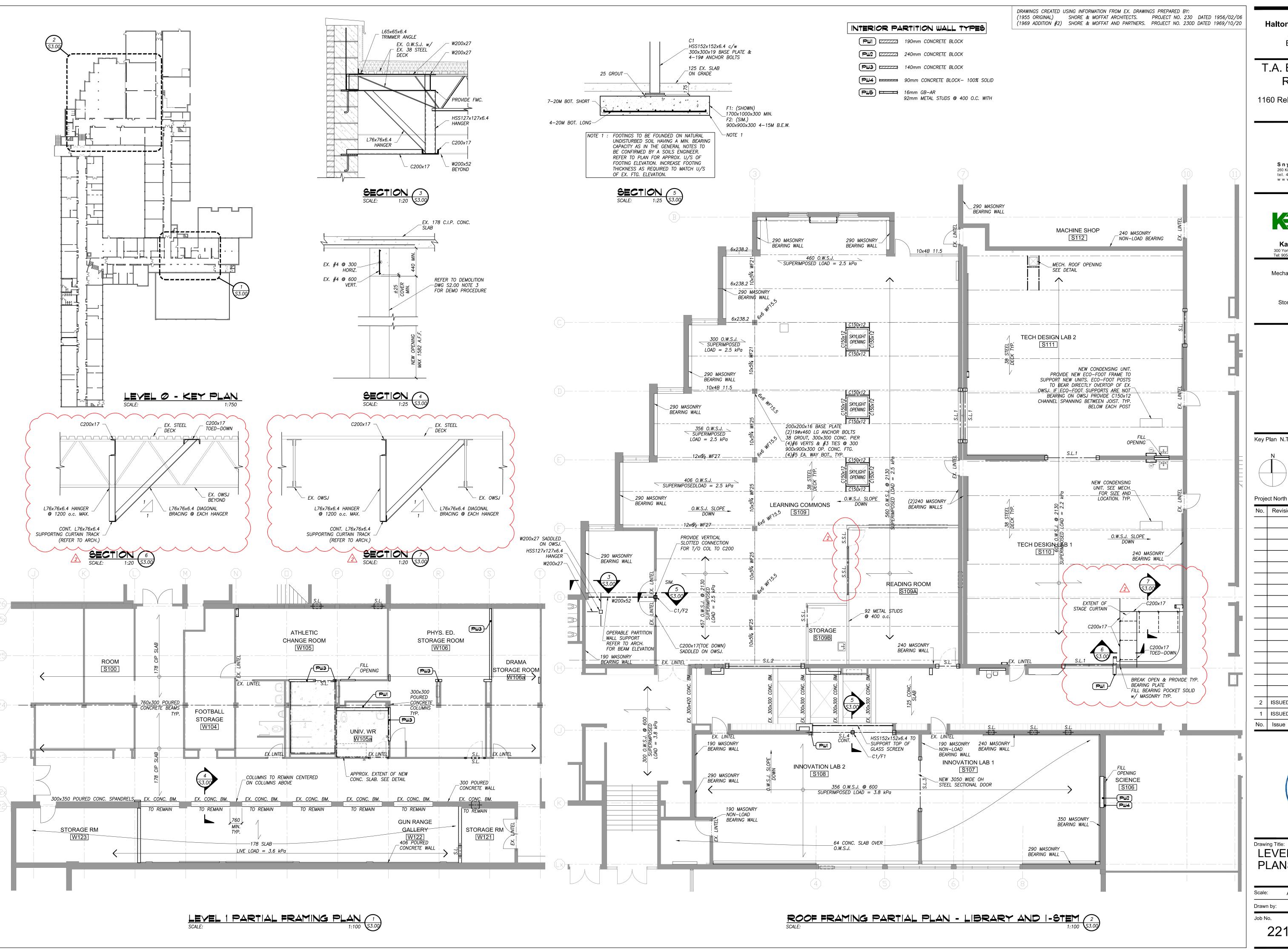
Project North Revisions 2023/04/04 2 ISSUED FOR ADDENDUM NO.1 ISSUED FOR BIDS / PERMIT 2023/03/13 No. Issue



Drawing Title: COVER PAGE, **GENERAL NOTES & DETAILS**

AS NOTED Date: **APRIL 2023** JRD | Checked by: Drawn by Drawing No

S0.01



Client **Halton District School Board** 2050 Guelph Line Burlington, Ontario

T.A. BLAKELOCK H.S. RENOVATION

1160 Rebecca Street, Oakville, ON L6L 1Y9

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Key Plan N.T.S.

Revisions 2023/04/04 2 ISSUED FOR ADDENDUM NO.1 1 | ISSUED FOR BIDS / PERMIT 2023/03/13



LEVEL 0 RENOVATION **PLANS**

22	15A	S	3.00
Job No.		Drawing No	
Drawn by:	JRD	Checked by	: EH
Scale:	AS NOTED	Date:	APRIL 2023