GENERAL

1. DESIGN AND CONSTRUCTION OF THIS PROJECT SHALL COMPLY WITH THE ONTARIO BUILDING CODE LATEST EDITION AND NATIONAL BUILDING CODE LATEST EDITION.
2. CONTRACTOR SHALL CHECK ALL DIMENSIONS ON WORKING DRAWINGS AND REPORT ANY DISCREPANCIES TO THE ENGINEER BEFORE PROCEEDING WITH THE WORK. ANY CHANGES, ALTERATIONS OR REVISIONS MUST BE REPORTED TO THE ENGINEER BEFORE PROCEEDING WITH THE WORK. DRAWINGS SHALL NOT BE SCALED.
3. THESE DESIGN DOCUMENTS ARE PREPARED SOLELY FOR THE USE BY THE PARTY WITH WHOM THE DESIGN PROFESSIONAL HAS ENTERED INTO A CONTRACT AND THERE ARE NO REPRESENTATIONS OF ANY KIND MADE BY THE DESIGN PROFESSIONAL TO ANY PARTY WITH WHOM THE DESIGN PROFESSIONAL HAS NOT ENTERED INTO A CONTRACT.
4. UNLESS SPECIFICALLY NOTED OTHERWISE ON THE DRAWINGS, NO PROVISION HAS BEEN MADE IN THE DESIGN FOR CONDITIONS OCCURRING DURING CONSTRUCTION. THE CONTRACTOR SHALL PROVIDE ALL NECESSARY BRACING AND SHORING REQUIRED FOR THE STRESSES AND INSTABILITY OCCURRING FROM ANY CAUSE DURING CONSTRUCTION. THE CONTRACTOR SHALL ACCEPT FULL RESPONSIBILITY FOR ALL SUCH MEASURES. IT SHALL ALSO BE THE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE ALL NECESSARY BRACING, SHORING, SHEET, PILING OR STRUCTURES AFFECTED BY THIS WORK.
5. DESIGN LIVE LOADS SHALL NOT BE EXCEEDED DURING CONSTRUCTION.
6. ALL WORK IS TO BE PERFORMED IN ACCORDANCE WITH THE OCCUPATIONAL HEALTH AND SAFETY ACT AND REGULATIONS FOR CONSTRUCTION PROJECTS - O.REG.213.
7. THESE DRAWINGS SHALL BE COORDINATED AND READ IN CONJUNCTION WITH ARCHITECTURAL, MECHANICAL, AND ELECTRICAL DRAWINGS.
8. WHERE THERE IS A CONFLICT IN THE SPECS AND/OR DRAWINGS THE MORE STRINGENT SHALL APPLY UNLESS APPROVED OTHERWISE IN WRITING BY THE ENGINEER.
9. ALL SPECIFICATIONS LISTED ARE TO LATEST EDITIONS IN FORCE AT TIME OF TENDERING.

MASONRY

1. ALL MASONRY WALLS SHALL BE REINFORCED WITH DUR-O-WALL LADDER DESIGN (OR APPROVED EQUAL) HOT DIPPED GALVANIZED CONTINUOUS REINFORCEMENT AT EVERY SECOND COURSE 400mm. REINFORCEMENT SHALL BE INSTALLED IN THE FIRST AND SECOND BED JOINTS 200mm APART. IMMEDIATELY ABOVE LINTELS AND BELOW SILLS. REINFORCEMENT IN THE SECOND BED JOINT ABOVE LINTELS AND BELOW SILLS SHALL EXTEND 600mm BEYOND THE JAMB. ALL OTHER REINFORCEMENT SHALL BE CONTINUOUS AND SIDE RODS SHALL BE LAPPED AT LEAST 150mm AT SPLICES. REINFORCEMENT SHALL BE PLACED AS TO ASSUME 16mm MORTAR COVER ON THE EXTERIOR FACE OF WALL AND 12mm COVER ON THE INTERIOR FACE OF WALL. (SEE CONCRETE BLOCK WALL REINFORCING SCHEDULE).
2. TYPE S MORTAR SHALL BE USED THROUGHOUT FOR ALL LOAD BEARING WALLS.
   TYPE N MORTAR SHALL BE USED FOR NON-LOAD BEARING PARTITIONS AND BRICK OR BLOCK VENEER.
3. MORTAR COMPRESSIVE STRENGTHS: (JOB PREPARED MIX)

   TYPE S: MINIMUM 28 DAY STRENGTH = 8.5MPa, MAXIMUM 28 DAY STRENGTH = 12.5MPa
   TYPE N: MINIMUM 28 DAY STRENGTH = 3.5MPa, MAXIMUM 28 DAY STRENGTH = 7.5MPa
   MORTAR MIX PROPORTIONS:
   MIX ACCORDING TO CURRENT CSA STANDARD A179-14.
   MORTAR MIX SHALL BE TESTED FOR STRENGTH AND APPROVED BY THE ENGINEER PRIOR TO USE ON THE JOB.
   FOR EXTERIOR BRICK VENEER ONLY USE PORTLAND CEMENT LIME MORTAR TYPE N - 1 PART PORTLAND, PORTLAND-LIMESTONE, OR BLENDED CEMENT: 1 PART HYDRATED LIME OR LIME PUTTY: 6 PARTS SAND MEASURED IN DAMP, LOOSE STATE (1:1:6 BY VOLUME) IN ACCORDANCE WITH TABLE 3.
   FOR EXTERIOR BLOCK VENEER USE REGULAR TYPE N.
4. ALL MASONRY WALL TO BE CONSTRUCTED WITH FULL MORTAR JOINTS.
5. SPACING OF MASONRY CONTROL JOINTS IN ALL WALLS SHALL NOT EXCEED 6.0m (20'-0") O.C.
6. MINIMUM SPECIFIED COMPRESSIVE STRENGTH OF LOAD BEARING CONCRETE BLOCK MASONRY UNITS SHALL BE: 15MPa FOR HOLLOW UNITS, BASED ON NET AREA.
7. ALL MASONRY UNDER CONCENTRATED LOADS SHALL HAVE VOIDS FILLED WITH 20MPa GROUT FOR WIDTH AND DEPTH EQUAL TO 3 TIMES THE LENGTH OF BEARING, MINIMUM 600mm WIDE x 400mm DEEP.
8. FOR MASONRY OPENINGS NOT SHOWN ON DRAWINGS PROVIDE 1L-89x89x6.4 FOR EACH 100mm THICKNESS OF WALL OPENINGS UP TO 600mm AND 1L-89x89x9.5 FOR OPENINGS UP TO 1200mm, IF OPENING IS WIDER THAN 1200mm NOTIFY ENGINEER FOR LINTEL SIZE VERIFICATION PRIOR TO FABRICATION AND INSTALLATION.
9. ALL MASONRY WALL SHALL BE PROPERLY SHORED DURING CONSTRUCTION UNTIL STRUCTURAL STEEL AND SLABS ARE IN PLACE.

STRUCTURAL STEEL

1. STRUCTURAL STEEL SHALL CONFORM TO CSA G40.21 WITH ONE SHOP COAT AND FIELD TOUCH-UP OF ZINC CHROMATE PRIMER, CONFORMING TO CISC/CPMA STANDARD 1-73A ONE-COAT PAINT AND CISC/CPMA STANDARD 2-75 PRIMER. AND IT SHALL BE PAINTED TO OWNERS SPECIFICATION.
   ALL W-SHAPES & S-SHAPES SECTIONS SHALL CONFORM TO ASTM A992 & ASTM A572 GRADE 50 Fy=345MPa.
   ALL C-SHAPES SECTIONS & ANGLES SHALL CONFORM TO G40.21-350W Fy=350MPa.
   ALL HSS HOLLOW STRUCTURAL SECTIONS SHALL CONFORM TO G40.21-350W CLASS C Fy=350MPa.
   ALL OTHERS (PLATES, RODS) SHALL CONFORM TO G40.21-300W Fy=300MPa.
2. FABRICATION AND ERECTION SHALL CONFORM TO LATEST EDITION OF CSA STANDARD S16:19. NO SPLICING WILL BE PERMITTED UNLESS OTHERWISE NOTED ON STRUCTURAL DRAWINGS.
3. DESIGN AND INSTALLATION OF ALL BRIDGING SHALL BE IN ACCORDANCE WITH LATEST EDITION OF CSA STANDARD S16:19. COMBINED DIAGONAL AND HORIZONTAL BRIDGING SHALL BE PROVIDED AT THE ENDS OF BRIDGING LINES AS REQUIRED. ENDS OF BRIDGING LINES SHALL BE ANCHORED TO STEEL, MASONRY OR OTHERWISE SHOWN.
4. ALL FIELD BOLTS SHALL BE ASTM A325 HIGH STRENGTH BOLTS IN BEARING TYPE CONNECTIONS.
5. ALL BEAM-TO-BEAM CONNECTIONS AND BEAM-TO-COLUMN CONNECTIONS SHALL HAVE DOUBLE ANGLE CONNECTIONS UNLESS NOTED OTHERWISE AND BE IN ACCORDANCE TO CSA STANDARD CONNECTIONS.
6. WELD ALL BEAMS TO BEARING PLATES OR SUPPORTING MEMBERS WITH MINIMUM 50mm x5mm FILLET WELDS ON BOTH SIDES OF MEMBER, UNLESS NOTED OTHERWISE.
7. WELDING OF STRUCTURAL STEEL SHALL CONFORM TO THE REQUIREMENTS OF LATEST EDITION OF CSA STANDARD W59-18 AND SHALL BE UNDERTAKEN BY A FABRICATOR AND ERECTOR FULLY APPROVED BY THE CANADIAN WELDING BUREAU TO THE REQUIREMENTS OF LATEST EDITION OF CSA STANDARD W47.1:19, DIVISION 1 OR DIVISION 2.1.
8. ALL CONNECTIONS SHALL BE DESIGNED FOR MIN. 50% OF THE FULL SHEAR CAPACITY OF THE MEMBER UNLESS MEMBER CONNECTION LOADS ARE SHOWN ON THE DRAWINGS.
9. STEEL BEAMS SHALL HAVE 200mm MINIMUM END BEARING ON MASONRY AND 65mm MINIMUM BEARING ON STEEL UNLESS INDICATED OTHERWISE.
10. ALL BEAMS CANTILEVERED OR CONTINUOUS OVER A COLUMN OR OTHER SUPPORT SHALL HAVE A MINIMUM OF 2-10mm STIFFENERS EACH SIDE FULL HEIGHT & FULL WIDTH UNLESS OTHERWISE NOTED.
11. UNDERSIDE OF BEAM BEARING PLATES SHALL BE GROUTED WITH 40mm NON-SHRINK GROUT.
12. WHERE STRUCTURAL STEEL MEMBERS ARE CALLED FOR ON ARCHITECTURAL DRAWINGS BUT NOT ON STRUCTURAL DRAWINGS USE 6.4mm THICKNESS MIN. FOR ANGLES AND PLATES AND MIN. BEAM WEIGHT FOR TENDERING PURPOSES.

INSPECTIONS AND TESTING

THE FOLLOWING ITEMS SHALL BE INSPECTED OR TESTED BY INDEPENDENT INSPECTION/TESTING AGENCIES DESIGNATED BY THE CLIENT. MATERIALS AND WORKMANSHIP NOT CONFORMING TO THE SPECIFICATIONS SHALL BE REJECTED BY THE CONTRACTOR. REPORTS AND TEST RESULTS SHALL BE PROMPTLY SUBMITTED TO THE ENGINEER FOR REVIEW. TESTING SHALL INCLUDE BUT NOT BE LIMITED TO:

STRUCTURAL STEEL

VISUAL INSPECTION OF ALL WELDS, TESTING OF BOLTED CONNECTIONS AND CHECK ON BEARING, PLUMBNESS AND ALIGNMENT OF STEEL STRUCTURES. INSPECTIONS SHALL CONFORM TO CSA STANDARD S16:19.

NON-DESTRUCTIVE TESTING TO VERIFY THE QUALITY OF WELDING, WHERE DEEMED QUESTIONABLE BY VISIBLE DEFECTS OR WHERE REQUIRED BY THE ENGINEER.

SHOP DRAWINGS AND SUBMITTALS

GENERAL

1. SHOP DRAWINGS SHALL BE SUBMITTED. THE ERECTION DRAWINGS SHALL BE DRAWN USING THE MINIMUM SCALE THAT WAS USED FOR THE TENDER DRAWINGS. DETAILS MUST BE OF A SCALE THAT IS LEGIBLE.
2. PRIOR TO SUBMITTING TO CONSULTANTS, CONTRACTOR'S REVIEW STAMP TO BE ON ALL SHOP DRAWINGS.
3. SHOP DRAWINGS TO BE SUBMITTED AT LEAST 10 WORKING DAYS PRIOR TO START OF WORK.
4. SEPIAS OR REPRODUCTION OF THE STRUCTURAL DRAWINGS SHALL NOT BE ACCEPTED AS SHOP DRAWINGS. PROFESSIONAL ENGINEER IN THE FOLLOWING PARAGRAPHS SHALL BE REGISTERED AND LICENSED TO PRACTICE IN THE PROVINCE OF ONTARIO.
5. REVIEW OF SHOP DRAWINGS APPLIES TO THE GENERAL ARRANGEMENT FOR THE PURPOSE OF ASCERTAINING CONFORMANCE WITH THE GENERAL DESIGN CONCEPT AND COMPLIANCE WITH OBC REQUIREMENTS. THIS REVIEW DOES NOT IMPLY APPROVAL OF DETAIL DESIGN OR QUANTITIES IN SUBMITTED DRAWINGS. NOR DOES IT RELIEVE THE CONTRACTOR OF HIS RESPONSIBILITY FOR MAKING THE WORK COMPLETE, ACCURATE AND IN ACCORDANCE WITH THE STRUCTURAL DRAWINGS AND COMPLIANCE WITH OBC REQUIREMENTS. ALLOW 10 WORKING DAYS FOR SHOP DRAWING REVIEW.
6. DO NOT FABRICATE MATERIALS BASED ON REJECTED OR DISAPPROVED SHOP DRAWINGS.
7. SHOP DRAWING SUBMITTALS SHALL ALSO INCLUDE CLADDING CONNECTION DETAILS, PRECAST AND STEEL STAIR DETAILS, EXTERIOR GRATING DETAILS AND SAFETY GUARDS, WHICH SHALL SIGNED AND STAMPED BY A PROFESSIONAL ENGINEER IN ACCORDANCE WITH THE CURRENT ONTARIO BUILDING CODE.

STRUCTURAL STEEL

1. SUBMIT FOR REVIEW ERECTION DRAWINGS FOR ALL STRUCTURAL STEEL ELEMENTS.
2. SHOP DRAWING SUBMITTALS SHALL INCLUDE STEEL BEAM CONNECTIONS, SHALL BE SIGNED AND STAMPED BY A PROFESSIONAL ENGINEER REGISTERED IN THE PROVINCE OF ONTARIO.

CLADDING

SUBMIT FOR REVIEW THE PROPOSED INSERT LOADS TRANSMITTED BY PREFABRICATED EXTERIOR CLADDING SYSTEM TO THE STRUCTURE.

RECORD DRAWINGS

GENERAL CONTRACTOR SHALL MAINTAIN TWO SETS OF RECORD DRAWINGS WHICH SHOW AS-BUILT DETAILS OF ALL ASPECTS OF THE STRUCTURE, FOR REVIEW DURING CONSTRUCTION AND FOR SUBMISSION AT THE END OF THE PROJECT.

STEEL STUDS LIGHTWEIGHT, COLD-FORMED GALVANIZED STRUCTURAL STEEL STUDS

1. SHOP DRAWINGS FOR STRUCTURAL STEEL STUDS SHALL BE SUBMITTED TO PROJECT ENGINEER FOR REVIEW PRIOR TO FABRICATION IN ACCORDANCE WITH DETAILS PROVIDED ON ARCHITECTURAL AND/OR STRUCTURAL DRAWINGS. DRAWINGS ARE TO INCLUDE JAMB (POST), LINTEL (HEADER & SILL), BRIDGING DETAILS, CONNECTIONS AND DEFLECTION HEADS. DRAWINGS ARE TO BE STAMPED BY AN ENGINEER REGISTERED IN PROVINCE OF ONTARIO.
2. MINIMUM DEPTH OF STUD IS AS DETAILED ON THE ARCHITECTURAL DRAWINGS.
3. MINIMUM THICKNESS OF LOAD BEARING STUD SHALL NOT BE LESS THAN 0.8788mm, 0.0346", 33mil 20GAUGE, 50ksi OR 1.1455mm, 0.0451", 43mil 18GAUGE, 33ksi.
4. STEEL STUD DESIGN & CONSTRUCTION SHALL CONFORM TO CSA STANDARD S136-16 COLD FORMED STEEL STRUCTURAL MEMBERS.
5. ALL EXTERIOR STUD WALLS ARE LOAD BEARING STUD WALLS UNLESS NOTED OTHERWISE. MAXIMUM LATERAL DEFLECTION SHALL NOT EXCEED L/360 FOR EXTERIOR INSULATION AND FINISH SYSTEMS (EIFS) OR OTHER CLADDING SYSTEMS & L/420 FOR MASONRY VENEER EXCEPT AS NOTED ON DRAWINGS.

TEMPORARY SHORING & BRACING

GENERAL CONTRACTOR IS RESPONSIBLE TO PROVIDE PROPER TEMPORARY SHORING & BRACING FOR NEW OR EXISTING MASONRY WALLS AND ALL OTHER STRUCTURAL ELEMENTS IN ACCORDANCE WITH RECOGNIZED CONSTRUCTION PRACTICE.

1. BRACING IS REQUIRED UNTIL FLOOR SLAB AND/OR ROOF DECK ARE IN PLACE AND PROPERLY SECURED TO BEAMS AND/OR JOISTS.
2. SHORING IS REQUIRED UNTIL PROPOSED STRUCTURE IS PROPERLY IN PLACE.
3. SHORING & BRACING SHALL BE DESIGNED, REVIEWED AND APPROVED BY CONTRACTOR'S ENGINEER.
4. SHORING SHOP DRAWINGS SHALL BE SUBMITTED WITH ENGINEER'S STAMP FOR OUR REVIEW PRIOR TO CONSTRUCTION.

MASONRY CONNECTORS FOR **INTERIOR** BLOCK

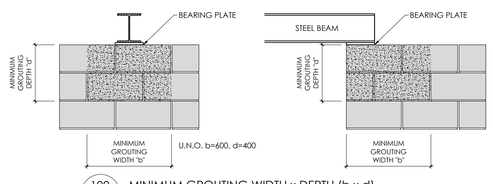
BACK-UP WALL	DESCRIPTION
EXISTING BLOCK WALL	90mm BLOCK TO BE TIED TO BACK-UP WALL USING HOT-DIP GALVANIZED FERO HEAVY DUTY HOLED RAP-TIE WITH 4.76mm DIAMETER V-TIE (OR APPROVED EQUAL CONNECTORS) SPACED AT 800mm HORIZONTAL x 400mm VERTICAL.

NOTE:
MAXIMUM SPACING AND MINIMUM EMBEDMENT SHALL PER MANUFACTURER'S RECOMMENDATION AS WELL, THE MORE STRINGENT SHALL APPLY. CONTRACTOR TO SELECT PROPER TIES TO SUIT CAVITIES SHOWN IN ARCHITECTURAL DETAILS.

CONCRETE BLOCK WALL REINFORCING SCHEDULE

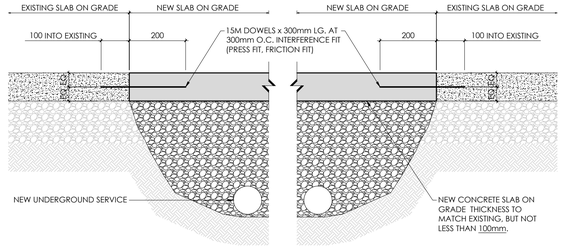
WALL TYPE	HORIZONTAL	VERTICAL
140 BLOCK	STANDARD WEIGHT LADDER REINFORCEMENT @ 400mm O/C WIRE SIZE Ø3.65mm x Ø3.65mm CONTINUOUS BOND BEAM C/W 1-15M AT TOP	1-15M AT FACE OF EACH OPENING 1-15M AT ENDS OF EACH WALL
190 BLOCK 240 BLOCK	STANDARD WEIGHT LADDER REINFORCEMENT @ 400mm O/C WIRE SIZE Ø3.65mm x Ø3.65mm CONTINUOUS BOND BEAM C/W 2-15M AT TOP	1-15M AT FACE OF EACH OPENING 1-15M AT ENDS OF EACH WALL

NOTES:
1. ALL BOND BEAMS TO HAVE 20MPa GROUT FILL, ALL VERTICAL BARS ARE TO BE FULL HEIGHT, DOWELED 100mm INTO FOUNDATION WALL OR FLOOR SLAB. ALL BARS ARE TO BE DOWELED IN PLACE USING HILTI HT-HY 200 OR APPROVED EQUAL ADHESIVE. FILL CORES 100% SOLID WITH 20MPa GROUT WHERE WALL IS REINFORCED.
2. AT CHANGE TABLE LOCATION REINFORCE BLOCK USING 15M@400 O/C.

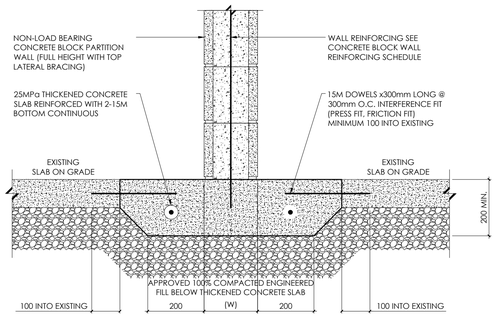


100 / S1.1 MINIMUM GROUTING WIDTH x DEPTH (b x d)
N.T.S.

NOTE: WHERE EXISTING INTERIOR CONCRETE SLAB ON GRADE IS REMOVED FOR UNDERGROUND PLUMBING AND DRAINAGE REPLACE EXISTING CONCRETE SLAB ON GRADE WITH 25MPa NEW CONCRETE SLAB ON APPROVED GRANULAR FILL. GRANULAR FILL SHALL BE COMPACTED IN 150mm LAYERS TO 100% STANDARD PROCTOR MAXIMUM DRY DENSITY. PROVIDE DOWELS FROM NEW CONCRETE SLAB ON GRADE TO EXISTING CONCRETE SLAB ON GRADE IN ACCORDANCE WITH DETAIL BELOW. TYPICAL.



101 / S1.1 TYPICAL DETAIL FOR NEW CONCRETE SLAB ON GRADE ADJACENT EXISTING FOR NEW UNDERGROUND SERVICE INSTALLATION OR NEW BUILDING ADDITION JOINT
N.T.S.



102 / S1.1 TYPICAL THICKENED CONCRETE SLAB AT EXISTING SLAB ON GRADE UNDER NON-LOAD BEARING CONCRETE BLOCK PARTITION WALL
N.T.S.

(W) DENOTES THICKNESS OF NON-LOAD BEARING CONCRETE BLOCK PARTITION WALL ABOVE

TYPICAL NOTES FOR LINTEL SCHEDULE:
1. ALL EXTERIOR LINTELS TO BE HOT DIPPED GALVANIZED.
2. BACK TO BACK ANGLES SHALL BE STITCH WELDED OR BOLTED @ 600 O/C MAXIMUM.
3. BOTTOM PLATE SHALL BE SHOP WELDED TO UNDERSIDE OF BEAM USING MINIMUM WELD SIZE 6mm FILLET WELD x50mm LONG AT 600mm O.C. BOTH SIDES.
4. LINTEL BEARING LENGTH IS 200mm MINIMUM AT EACH END UNLESS NOTED OTHERWISE.
5. LINTEL BEARING PLATES ARE NOT REQUIRED UNLESS SPECIFICALLY SHOWN IN SCHEDULE/ON PLAN.

LINTEL SCHEDULE

MARK	DESCRIPTION	DETAIL	WALL TYPE
L1	HSS-152x76x6.4 (LSV) C/W 130x6 BOTTOM PLATE HSS+PLATE 200mm END BEARING LENGTH. HSS OUTSIDE FACE FLUSH WITH BLOCK OUTSIDE FACE 1L-127x89x9.5 (LV) Sx=37.6x10³mm³ HOT DIPPED GALVANIZED, ANGLE VERT. LEG BACKSIDE OF BRICK		EXISTING 140 BLOCK + 20 CAVITY + 90 BRICK
L2	2L-102x89x7.9 (LLV) Sx=41.7x10³mm³ BACK TO BACK ANGLES		EXISTING 190 BLOCK
L3	2L-89x64x9.5 (LLV) Sx=35.9x10³mm³ BACK TO BACK ANGLES 1L-102x89x7.9 (LLV) Sx=20.9x10³mm³ HOT DIPPED GALVANIZED, ANGLE VERT. LEG BACKSIDE OF BRICK		EXISTING 140 BLOCK + 20 CAVITY + 90 BRICK
L4	2L-89x64x6.4 (LLV) Sx=24.7x10³mm³ BACK TO BACK ANGLES 1L-89x89x6.4 Sx=13x10³mm³ HOT DIPPED GALVANIZED, ANGLE VERT. LEG BACKSIDE OF BRICK		EXISTING 140 BLOCK + 20 CAVITY + 90 BRICK
L5	2L-89x89x6.4 Sx=26x10³mm³ BACK TO BACK ANGLES		EXISTING 190 BLOCK

TYPICAL NOTES FOR LINTEL INSTALLATIONS IN EXISTING MASONRY WALLS

1. GENERAL CONTRACTOR SHALL SITE VERIFY EACH EXISTING MASONRY WALL THICKNESS AT LINTEL LOCATION AND NOTIFY PROJECT ENGINEER OF ANY DISCREPANCIES FOR REVISIONS IF IT'S REQUIRED PRIOR TO LINTEL FABRICATION.
2. CONTRACTOR IS RESPONSIBLE TO PROVIDE PROPER TEMPORARY SHORING FOR EXISTING MASONRY WALL.
3. ENSURE SOLID BEARING FOR EACH END OF EACH LINTEL ON EXISTING MASONRY BLOCK, FILL VOIDS & ANY UNEVEN SURFACES WITH NON-SHRINK GROUT.
4. ALL LINTELS ARE TO BE PROPERLY INSTALLED TIGHT TO UNDERSIDE OF EXISTING MASONRY WALL, GAPS BETWEEN U/S OF WALL AND T/O LINTEL SHALL BE GROUTED SOLID.

REVISIONS

NO.	DATE	PARTICULAR
1	2023.03.06	ISSUED FOR PERMIT AND TENDER

NOTES:

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KEY PLAN:

CLIENT:
WATERLOO REGION DISTRICT SCHOOL BOARD (WRDSB)

PROJECT:
22057

CRESTVIEW PUBLIC SCHOOL RENOVATION

153 MONTCALM DRIVE,
KITCHENER, ON N2B 2R6

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LICENSED PROFESSIONAL ENGINEER
MAR.06/23
M. W. LIN
100156441
PROVINCE OF ONTARIO

STRUCTURAL NOTES

S1.1

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CHECKED BY : ML

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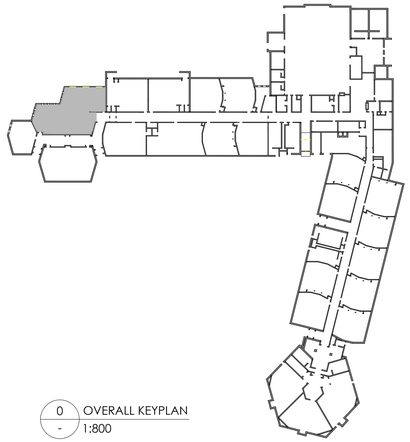

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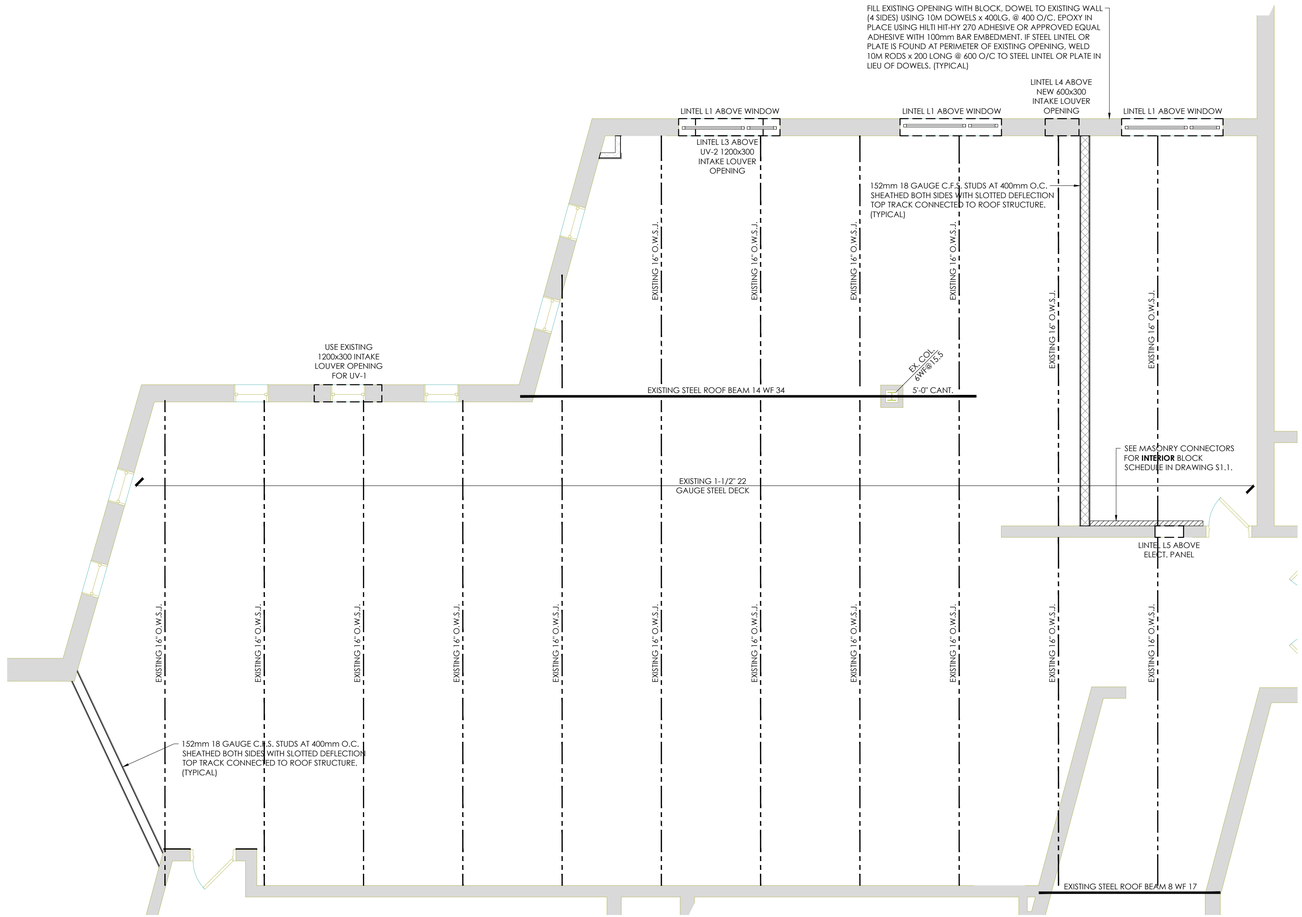

1 / S2.1 LIBRARY RENOVATION FLOOR PLAN
0 500 1000 2.5m

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LICENSED PROFESSIONAL ENGINEER
MAR.06/23
M. W. LIN
100156441
PROVINCE OF ONTARIO

LIBRARY RENOVATION FLOOR PLAN

S2.1

DRAWN BY : ML CHECKED BY : ML

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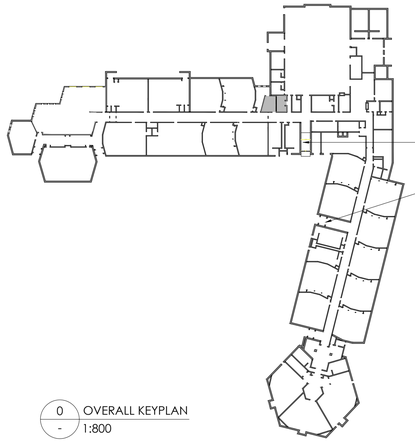

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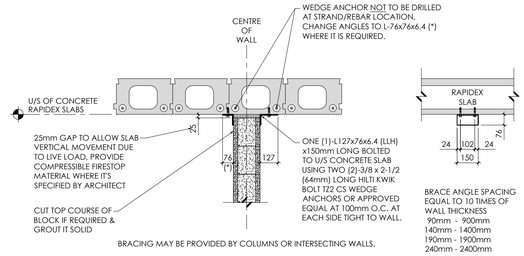
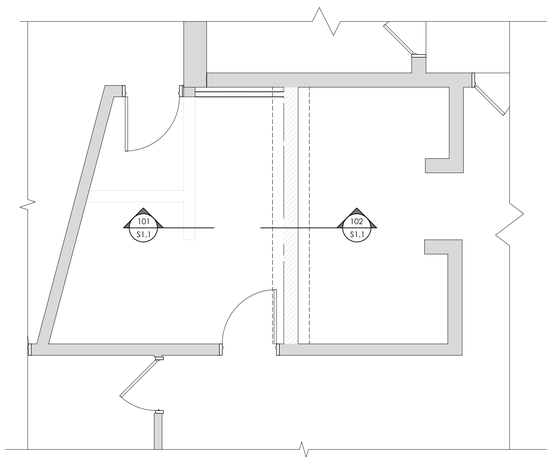
TWO NEW STEEL HSS BEAMS AT TOP OF NEW ALUM. DOORS IN VESTIBULES 1 AND 2:

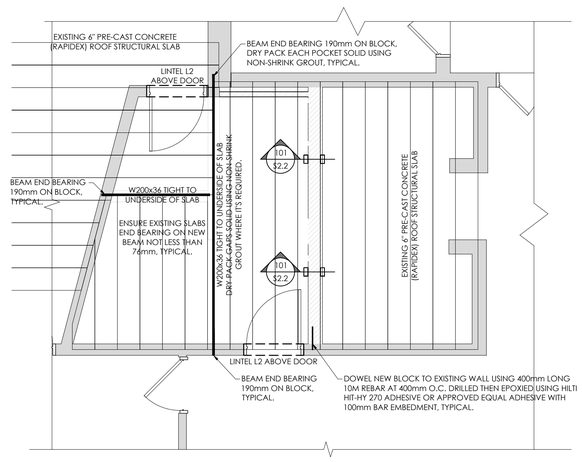
PROVIDE STEEL BEAM HSS-89x89x9.5 INSIDE C.F.S. STUD WALL AT BOTTOM OF WALL, AT TOP OF NEW DOORS, HSS TO BEAR ON EXISTING BLOCK WALL MINIMUM 100mm AT EACH END, BEAM POCKETS TO BE GROUTED SOLID USING NON-SHRINK GROUT, THE HSS BEAM IS DESIGNED FOR C.F.S. STUD WALL SUPPORT AND FOR DOOR TOP LATERAL BRACING USE. REFER TO PLAN 4/A2.3 AND SECTION 1/A4.3 FOR HSS BEAM LOCATIONS.



101 / S2.2 TYPICAL WALL TOP LATERAL BRACING DETAIL
WALL UNDER *RAPIDEX* PRECAST CONCRETE SLAB
0 200 500 1000mm



1 / S2.2 LEVEL 1 BF WASHROOM RENOVATION FLOOR PLAN
0 500 1000 2.5m



2 / S2.2 LEVEL 1 BF WASHROOM RENOVATION ROOF FRAMING PLAN
0 500 1000 2.5m

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