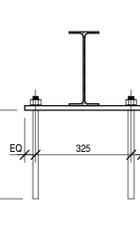


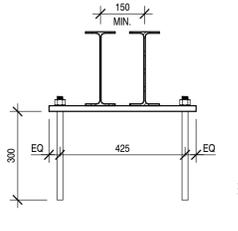
KEYPLAN

1 : 500

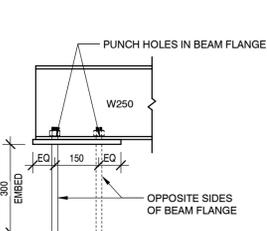
EXISTING ROOF LOADING		NEW ROOF LOADING	
DEAD LOAD:	2.75kPa	DEAD LOAD:	0.60kPa
10" RAPIDEX	0.60kPa	BALLAST	0.10kPa
SUPERIMPOSED LOAD	3.35kPa	MEMBRANE	0.10kPa
		INSULATION	0.15kPa
		GYPSON BOARD	0.15kPa
6" RAPIDEX	1.75kPa	DECK	0.10kPa
SUPERIMPOSED LOAD	0.60kPa	STRUCTURE	0.15kPa
	2.35kPa	CEILING	0.15kPa
		MECH/ELECT.	0.15kPa
SNOW LOAD	2.30kPa	SNOW LOAD	1.50kPa
			2.30kPa



DETAIL 1
SCALE: NTS



DETAIL 2
SCALE: NTS

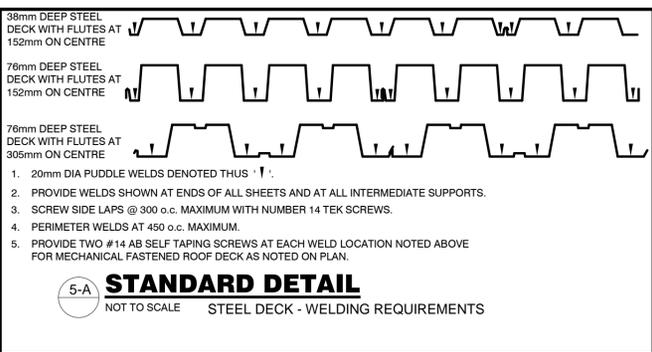
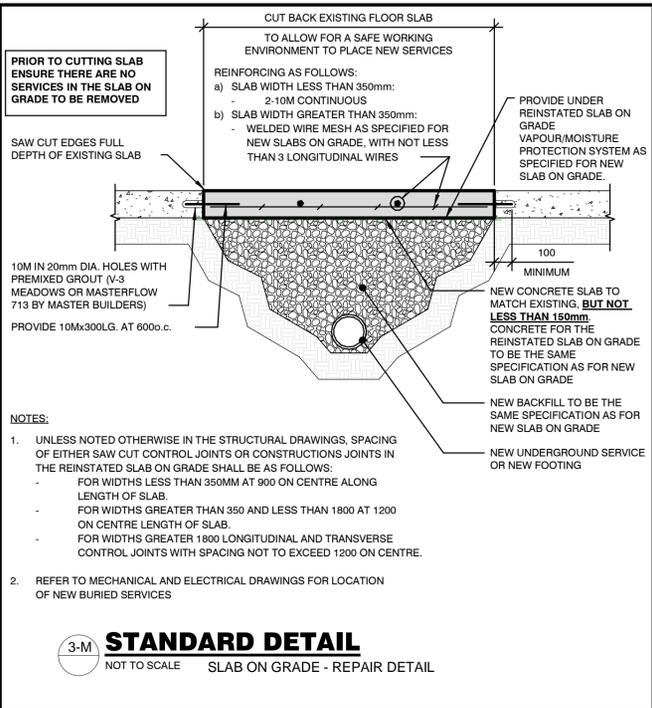
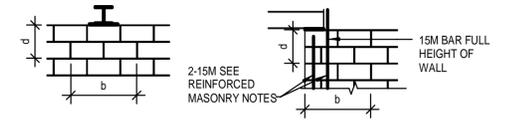


DETAIL 3
SCALE: NTS

BEARING PLATE SCHEDULE

MARK	SIZE	ANCHOR SIZE	HOLD DOWN BAR	REMARKS	MINIMUM GROUTING bxd
BP1	400x190x16	2-20mm DIA THREADED RODS x300 EMBED. INSTALLED IN NON-SHRINK GROUT		DETAIL 1	
BP2	550x190x20	2-20mm DIA THREADED RODS x300 EMBED. INSTALLED IN NON-SHRINK GROUT		DETAIL 2	
BP3	400x100x16	2-20mm DIA THREADED RODS x300 EMBED. INSTALLED IN NON-SHRINK GROUT		DETAIL 1	
BP3	400x100x16	2-20mm DIA THREADED RODS x300 EMBED. INSTALLED IN NON-SHRINK GROUT		DETAIL 3	

- NOTES:**
- ALL BEAMS AND JOISTS ARE TO BE PROVIDED WITH A BEARING PLATE. LINTELS ARE TO BE PROVIDED WITH A BEARING PLATE WHEN INDICATED ON THE DRAWINGS.
 - THE FIRST AND LAST BEARING PLATES ARE SHOWN AS THIS 'BP# ON PLAN AND ALL BEAMS AND JOISTS BETWEEN ARE TO BE PROVIDED THE SAME BEARING PLATE.
 - FILL BLOCK CORES SOLID BELOW BEARING PLATE 1'-4" LONG BY 2 COURSES DEEP UNLESS NOTED OTHERWISE.
 - CORES AT ALL HOLD DOWN BARS TO BE FILLED SOLID WITH 25MPa GROUT.
 - AT HOLD DOWN BAR SPLICE LOCATIONS, LAP BARS 2'-0" MIN.
 - AT ALL HOLD DOWN BARS, PROVIDE STANDARD HOOK AT U/S OF BEARING PLATES.



GENERAL

- GENERAL CONTRACTOR TO SITE VERIFY ALL CONDITIONS AND OR DIMENSIONS SHOWN OR IMPLIED ON THE STRUCTURAL DRAWINGS.
- GENERAL CONTRACTOR TO CO-ORDINATE ALL STRUCTURAL DOCUMENTS AND WORK WITH ARCHITECTURAL, MECHANICAL, ELECTRICAL AND SITE SERVICING DOCUMENTS AND WORK.
- REPORT ANY DISCREPANCIES AND OR CONFLICTS IN DIMENSIONS OR DETAILS TO THE ARCHITECT FOR CLARIFICATION PRIOR TO COMMENCING THE WORK IN QUESTION.
- PROVIDE ALL TEMPORARY NEEDLING, SHORING AND BRACING AS REQUIRED TO SAFELY COMPLETE THE WORK SHOWN ON THE STRUCTURAL DRAWINGS. SUBMIT, UPON REQUEST OF THE STRUCTURAL ENGINEER, DRAWINGS DETAILING THE TEMPORARY WORKS, SEALED SIGNED AND DATED BY A LICENSED PROFESSIONAL ENGINEER.
- PROVIDE ALL FALSE WORK AND RESHORING REQUIRED TO CONSTRUCT CONCRETE WALLS, COLUMNS AND BEAMS SHOWN ON THE STRUCTURAL DRAWINGS.

STRUCTURAL STEEL

- SUBMIT FOR CONSULTANT'S REVIEW ERECTION DIAGRAMS AND FABRICATION DETAILS IN ACCORDANCE WITH THE GENERAL NOTES. SHOP DRAWINGS TO BE SIGNED AND SEALED BY A PROFESSIONAL ENGINEER FOR STEEL CONNECTIONS.
- CONSULTANT'S REVIEW OF SHOP DRAWING DOES NOT RELEASE THE CONTRACTOR OF HIS RESPONSIBILITY FOR THE COMPLETENESS OF THE WORK NOR CO-ORDINATION WITH OTHER TRADES.
- FABRICATION AND ERECTION OF STEEL SHALL BE IN ACCORDANCE WITH CSA S16 (CURRENT).
- STRUCTURAL STEEL TO CONFORM TO THE FOLLOWING TABLE UNLESS NOTED OTHERWISE.

SHAPE	STANDARD	GRADE	MIN YIELD STRENGTH
CANADIAN WWF & W	GSA G40.21	350W	50 Ksi
HOLLOW STRUCTURAL SECTION CLASS C	GSA G40.21	350W	50 Ksi
PLATES, CHANNELS, ANGLES	GSA G40.21	350W	50 Ksi
WWF & W NOT ROLLED IN CANADA	ASTM A572	50	50 Ksi

- ALL WELDING SHALL BE DONE BY AN ORGANIZATION FULLY APPROVED BY THE CANADIAN WELDING BUREAU UNDER CSA-W47.1 (CURRENT) IN DIVISION 1 OR 2 AT THE TIME OF TENDERING. WELDERS TO BE CWB CERTIFIED TO THE COMPANIES STANDARDS. WELDING AND WELDING MATERIALS SHALL CONFORM TO CSA-W59-(CURRENT).
- THE FABRICATOR SHALL NOTE THE SIZE AND TYPE OF BOLTS AND WELDS USED IN STRUCTURAL CONNECTIONS ON THE SHOP DRAWINGS.
- ALL STRUCTURAL STEEL SHALL BE SUFFICIENTLY STRAIGHT THAT VARIATIONS CANNOT BE DETERMINED WITH THE UNAIDED EYE. ALL STRUCTURAL STEEL SHALL BE THOROUGHLY CLEANED OF ALL LOOSE MILL SCALE, DIRT, OIL OR OTHER FOREIGN MATTER BEFORE SHOP PAINTING. SHOP PAINT SHALL CONFORM TO CAN/CSSB 1.40-M89 OR CISC/CPMA STANDARD 2-75.
- WHERE HOT DIP GALVANIZING (HDG) IS SPECIFIED IT SHALL BE IN ACCORDANCE WITH CAN/CSA-G164-M92 (MINIMUM ZINC COATING 600 GSM).
- STEEL LINTELS SHALL HAVE A MINIMUM BEARING LENGTH OF 6".

CONCRETE AND CONCRETE REINFORCING

- ALL CONCRETE WORK INCLUDING MATERIALS, MIXING, PLACING, FINISHING, CURING, COLD WEATHER PROTECTION, HOT WEATHER PROTECTION, FORMWORK AND RESHORING IN ACCORDANCE WITH A23.1 AND A23.3 CURRENT UNLESS NOTED OTHERWISE HERE.
- ALL CONCRETE REINFORCING INCLUDING MATERIALS, FABRICATION, DETAILING, LAP SPLICES, PLACEMENT, FIXING AND COVER IN ACCORDANCE WITH A23.1 AND A23.3 CURRENT UNLESS NOTED OTHERWISE HERE.
- WELDED WIRE MESH TO BE LAPPED ONE (1) FULL MESH PLUS 50mm. PROVIDE CONCRETE BRICK BOLSTERS FOR WELDED WIRE MESH AT 1000mm ON CENTRE EACH WAY.
- CURE ALL SLABS ON GRADE WITH A PRE-APPROVED CURING COMPOUND COMPATIBLE WITH THE PROPOSED FLOORING ADHESIVE. MAINTAIN AIR TEMPERATURE AT OR ABOVE 100C FOR SEVEN (7) DAYS.
- ALL SLABS TO BE LEFT EXPOSED IN THE COMPLETED BUILDING ARE TO RECEIVE TWO COATS OF A PRE-APPROVED CONCRETE SEALER IMMEDIATELY PRIOR TO TURNING THE BUILDING OVER TO THE OWNER.

CONCRETE PROPERTIES	LOCATION	SPEC. 28 DAY COMPRESSIVE STRENGTH	SLUMP	AIR CONTENT **	EXPOSURE CLASS
	SLABS-ON-GRADE (INTERIOR)		25 MPa	100 MAX. w/c -.45	

- REINFORCING STEEL TO BE GRADE 400, WITH A MINIMUM SPECIFIED YIELD STRENGTH OF 400 MPa.
- SUBMIT REINFORCING STEEL SHOP DRAWING TO THE ENGINEER FOR REVIEW PRIOR TO FABRICATION.
- REINFORCED MASONRY NOTES
- VERTICAL MASONRY REINFORCING STEEL TO BE FY = 400 MPa.
- LAP ALL VERTICAL 15M REINFORCING 600mm UNLESS NOTED OTHERWISE. LAP ALL 20M REINFORCING 800mm UNLESS NOTED OTHERWISE.
- UNLESS NOTED OTHERWISE IN WALL SCHEDULE OR ELSEWHERE IN THE STRUCTURAL DOCUMENTS, MASONRY UNITS TO BE 15MPa.
- FOR LOAD BEARING WALLS & MASONRY SHEAR WALL MORTAR TYPE 'S'.
- GROUT TO BE 25MPa WITH 10mm MAX AGGREGATE SIZE AND 150mm ± 25mm SLUMP. GROUTING TO CONFORM TO REQUIREMENTS OF CSA STANDARD CAN3-A371-94. ALL LOW-LIFT. MAXIMUM LIFT 1000mm.
- UNLESS SPECIFICALLY DETAILED OTHERWISE ON THE STRUCTURAL DRAWINGS VERTICAL REINFORCING TO BE LOCATED IN CENTRE OF BLOCK.
- FOR MASONRY WALLS NOT LISTED HERE, REFER TO ARCHITECTURAL DRAWINGS.
- IN ADDITION TO THE VERTICAL REINFORCING SPECIFIED IN THE MASONRY WALL SCHEDULE PROVIDE A MINIMUM OF 2-15M EACH SIDE OF:
 - ALL DOOR OPENINGS
 - ALL WINDOW OPENINGS
 - AT ENDS OF ALL WALLS
 - EACH SIDE OF EVERY MASONRY WALL CONTROL JOINT
- PROVIDE DOWELS FROM FOUNDATION WALLS TO REINFORCED MASONRY WALL AND PIERS ABOVE. DOWELS ARE TO MATCH SIZE AND SPACING OF WALL AND PIERS REINFORCING SPECIFIED EITHER IN THE WALL SCHEDULE, NOTE 8 ABOVE, OR ELSEWHERE IN THE STRUCTURAL DOCUMENTS. MINIMUM BAR LENGTHS AND LAPS WITH VERTICAL MASONRY REINFORCING TO BE:
 - 15M X 1200 LONG; 600 LAP
 - 20M X 1600 LONG; 800 LAP
- ALL MASONRY WALLS SHOWN IN THE MASONRY WALL SCHEDULE ARE TO HAVE LADDER TYPE CONTINUOUS HORIZONTAL WALL REINFORCING AT 400 ON CENTRE. PROVIDE CONTINUOUS HORIZONTAL WALL REINFORCING AT 200 ON CENTRE IN ACOUSTIC BLOCK WALL. MINIMUM LAP TO BE 200mm. MINIMUM WIRE DIAMETER TO BE 4.76mm. PROVIDE PREFABRICATED CORNER AND TEE HORIZONTAL REINFORCING ALL CORNERS.
- PROVIDE STANDARD 90 DEGREE HOOK AT THE TOP OF ALL HOLD DOWN BARS AS SPECIFIED CUT WEB OF CONCRETE BLOCK FOR INSTALLATION OF HOOKED REINFORCING.
- MASONRY TO BE CONSTRUCTED IN FULL RUNNING BOND. TOOTH CONSTRUCTION JOINTS WILL NOT BE ACCEPTED.
- ALL MASONRY WALLS TO BE BUILT TO UNDERSIDE OF THE DECK ABOVE. WALLS TO BE BUILT TIGHT TO UNDERSIDE OF BEAMS AND GROUTED SOLD.
- THE TOPS OF ALL MASONRY WALLS ARE TO HAVE LATERAL SUPPORT. SEE DETAIL 4-P ON ZES1.02.
- ALL OPENINGS IN MASONRY WALLS REQUIRE A LINTEL. COORDINATE LOCATIONS AND CLEAR MASONRY OPENING WIDTHS WITH ARCHITECTURAL, MECHANICAL AND ELECTRICAL DRAWINGS.
 - FOR LOAD-BEARING WALLS LINTELS ARE DENOTED "Lxx" AND ARE LISTED IN THE "LINTEL SCHEDULE - LINTELS FOR IDENTIFIED OPENINGS" SEE SCHEDULES ON DRAWING S1.01
 - OPENINGS IN NON-LOAD-BEARING WALLS. OPENINGS ARE NOT SHOWN ON THE STRUCTURAL DRAWINGS. COORDINATE LOCATIONS AND CLEAR MASONRY OPENING WIDTHS WITH ARCHITECTURAL, MECHANICAL AND ELECTRICAL DRAWINGS AND SELECT THE APPROPRIATE LINTEL FROM "LINTEL SCHEDULE - GENERAL PURPOSE LINTELS" AS SHOWN IN THE SCHEDULES ON DRAWING S1.01. USING WALL CONSTRUCTION AND MAXIMUM CLEAR OPENING WIDTH AS THE CRITERIA. IF A STEEL COLUMN IS WITHIN 200mm OF THE EDGE OF AN OPENING A GENERAL PURPOSE STEEL LINTEL IS TO BE PROVIDED.

1061 Hargrave Rd., London, Ontario N6E 1P6
P 519 432 8644 F 519 204 6510
mte86.com

MTE
Engineers, Scientists, Surveyors
2026-03-10 ISSUED FOR TENDER

© 2026 MTE Consultants. All Rights Reserved.



153 Montcalm Dr., Kitchener, ON

Per Date: 01/30/23
Drawn By: AMM
Project No.: 60977_002

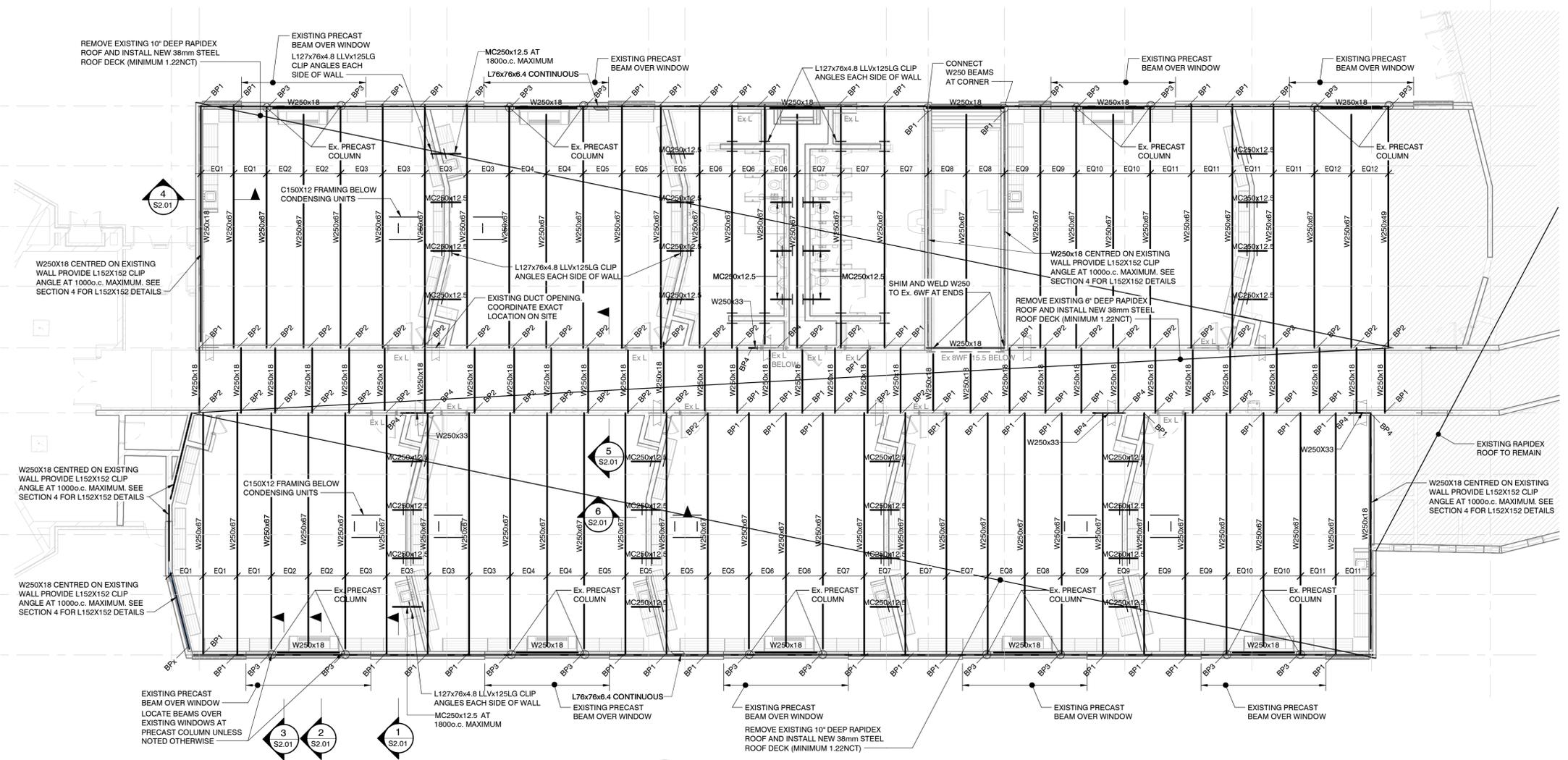
Crestview Public School
ROOF REPLACEMENT

STRUCTURAL DATA AND TABLES

S1.01

x1 x2 x3 x4 x5 x6 x7 x8 x9 x10 x11 x12 x13

xA
xB
xC
xD
xE
xF
xG
xH
xI
xJ

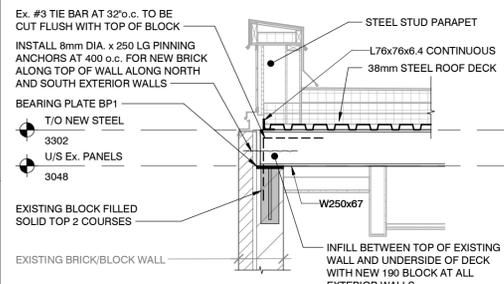


GENERAL CONTRACTOR TO PROVIDE TEMPORARY LATERAL SUPPORT FOR ALL EXTERIOR MASONRY WALLS PRIOR TO REMOVAL OF EXISTING RAPIDEX ROOF. LATERAL SUPPORT TO REMAIN IN PLACE UNTIL NEW ROOF CONSTRUCTION IS COMPLETE.

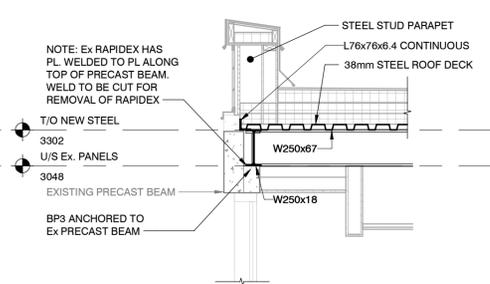


PART MAIN ROOF FRAMING PLAN

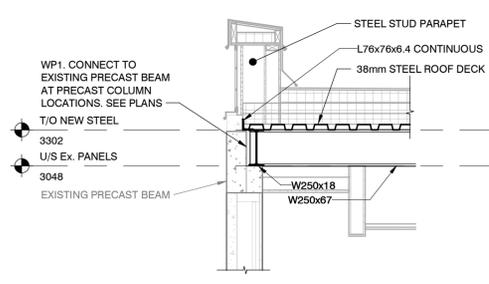
1 : 100



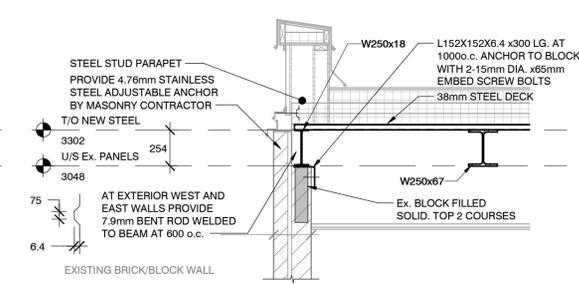
SECTION 1
S2.01
1 : 25



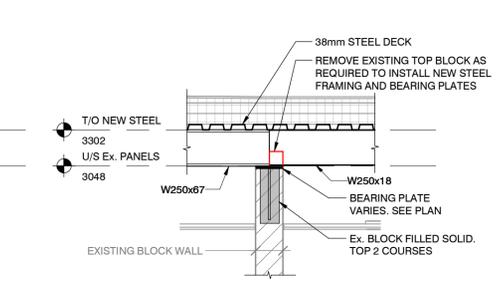
SECTION 2
S2.01
1 : 25



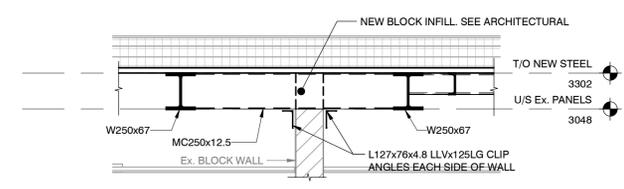
SECTION 3
S2.01
1 : 25



SECTION 4
S2.01
1 : 25



SECTION 5
S2.01
1 : 25



SECTION 6
S2.01
1 : 25

1061 Hargreave Rd., London, Ontario N6E 1P6
P 519 432 8644 F 519 204 6510
me@e.com

© 2006 MTE Consultants. All Rights Reserved.



153 Montcalm Dr., Kitchener, ON
Project No.: 60977_002
Drawn By: AMM
Per Date: 02/20/18

Crestview Public School
ROOF REPLACEMENT
PART MAIN ROOF FRAMING PLAN

S2.01