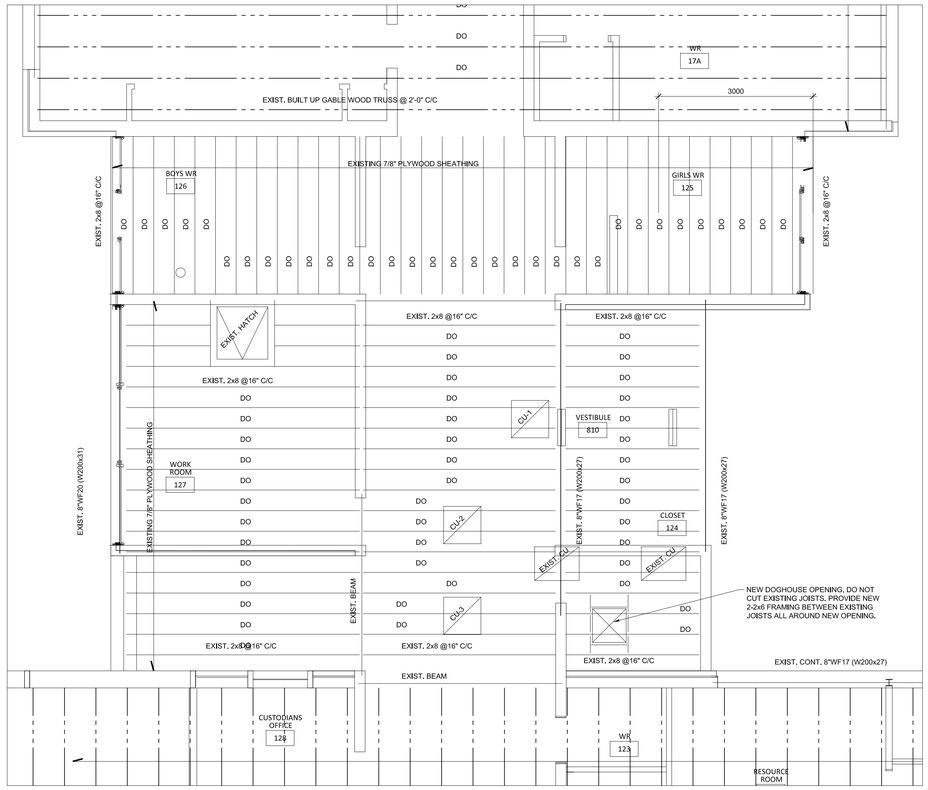

1 / S1 PART EXISTING ROOF FRAMING PLAN - FLAT ROOF
1:50

MECH. UNIT WEIGHTS AS BELOW:

CU-1	100 LB (≈ 0,45 kN)
CU-2	100 LB (≈ 0,45 kN)
CU-3	100 LB (≈ 0,45 kN)

NO STRUCTURE REINFORCEMENT IS REQUIRED FOR THESE UNITS IF PLACED AS SHOWN IN STRUCTURE DRAWINGS. CONFIRM UNIT WEIGHTS AND DIMENSIONS WITH MECHANICAL, FOR CURBS AND OPENINGS SUPPORT SEE NOTES, UNLESS OTHERWISE NOTED IN DRAWINGS.

PART ROOF FRAMING PLAN

SCALE 1:100

1. FOR ROOF SLOPES AND ELEVATIONS SEE ARCHITECTURAL DRAWINGS.
2. ROOF STRUCTURE IS EXISTING UNLESS NOTED OTHERWISE. EXISTING FRAMING DATA ARE TAKEN FROM THE ORIGINAL DRAWINGS DESIGNED BY JENKINS & WRIGHT ARCHITECTS YEAR 1953, BARNETT & RIEDER 1957, KARLEY & KROETSCH CONSTRUCTION LTD 1962 AND BLACKWELL 2012, SIGNED BY PEO C. A. ZURELL, REPORT TO CONSULTANTS DISCREPANCIES AND NECESSARY ADJUSTMENTS DUE TO ACTUAL CONDITIONS BEFORE PROCEEDING WITH WORK.
3. SPECIFIED SNOW LOAD FOR CURRENT CODE IS 2,00 kN/m^2. MULTIPLY SNOW LOADS BY IMPORTANCE FACTOR Is = 1,15.
4. SEE ALSO TYPICAL DETAILS AND GENERAL NOTES ON THESE DRAWINGS.
5. UNLESS NOTED OTHERWISE PROVIDE 170 X 12 X 200 BEARING PLATES EACH END OF ALL STEEL BEAMS, ALL BEARING PLATES SHALL BE WITH 2-19ø WELDED ANCHORS X 250 LG, WELD BEAM TO BEARING PLATES TYPICAL.
6. UNLESS NOTED OTHERWISE PROVIDE L89x89x6.4 FRAMING U/S NEW ROOF MECHANICAL UNITS AND L75 X 75 X 6,4 ANGLE REINFORCING AROUND ALL OPENINGS IN ROOF DECK THAT ARE BIGGER THAN 150mm x 150mm. PROVIDE REINFORCING AROUND NEW ROOF OPENINGS DUE TO NEW ROOF MECHANICAL DOGHOUSES.
7. REFER TO OTHER CONSULTANTS DRAWINGS AND SPECIFICATIONS FOR ROOF MOUNTED OR SUSPENDED UNITS. SHOW THE UNITS ON THE STEEL FABRICATORS SHOP DRAWINGS AND OBTAIN ARCHITECTS, MECHANICAL AND OR ELECTRICAL ENGINEERS APPROVAL OF WEIGHTS AND LOCATIONS BEFORE FABRICATION IS STARTED.
8. UNLESS NOTED OTHERWISE FOR LINTELS OVER MECHANICAL WALL OPENINGS REFER TO "LINTELS FOR DUCTS AND SERVICES" ON TYPICAL DETAIL SHEET, FOR ALL NEW LINTELS IN EXISTING WALLS CONFIRM WALL THICKNESS BEFORE LINTELS ARE FABRICATED. REFER TO ARCHITECTURAL AND MECHANICAL DRAWINGS FOR EXACT LOCATIONS.
9. BLOCK VOIDS WITH REINFORCING OR SHOWN AS "FILLED SOLID" SHALL BE FILLED WITH 20MPa CONCRETE WITH PEA GRAVEL OR 20MPa COARSE GROUT.
10. WIND LOAD PARAMETERS, AS PER OBC 2024 PART 4, 1/50 WIND PRESSURE 0,37kPa, 1/10 WIND PRESSURE 0,29kPa.
13. SEISMIC LOAD SEISMIC LOAD PARAMETERS, AS PER OBC 2024 PART 4, EQUIVALENT STATIC ANALYSIS, MASONRY SHEAR WALL SYSTEM AND CONVENTIONAL STEEL STRUCTURE, Sa(0,2, X450) = 0,204, Sa(0,5,X450)=0,122, Sa(1,0,X450)=0,0672, Sa(2,0,X450)=0,032, Sa(5,0,X450)=0,0846, Sa(10,0,X450)=0,00301, PGA (X450)=0,0902, PGV(X450)=0,0779, I_E=1,3, RD=1,5, RO=1,5, SEISMIC CATEGORY SC2
14. REFER TO "IMPORTANCE FACTOR" TABLE.
15. SHORE AS REQUIRED.

IMPORTANCE FACTOR CATEGORY `HIGH'

	ULS	SLS
SNOW	1,15	0,9
WIND	1,15	0,75
EARTHQUAKE	1,3	1,0

LICENSED PROFESSIONAL ENGINEER
March 16, 2026
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GEODETIC NORTH
PROJECT NORTH

project
WATERLOO REGION DISTRICT SCHOOL BOARD
EMPIRE PUBLIC SCHOOL
HVAC AND WINDOW RENOVATIONS
83 EMPIRE STREET, WATERLOO, ON N2L 2M1
drawing
PART ENLARGED EXISTING ROOF FRAMING PLANS
drawing scale
1:50
war#99 project number: 25019 - EMPIRE PS WRDSB
VX Engineering project number: 2609 - EMPIRE PS

drawing no.
S-1

VX
VX ENGINEERING INC
STRUCTURAL ENGINEERS
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2500 - 135Marlee Avenue
Toronto, Ontario M6B 4C6
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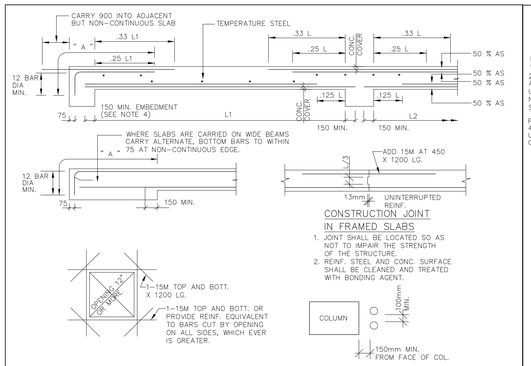


CONSTRUCTION JOINT IN FRAMED SLABS

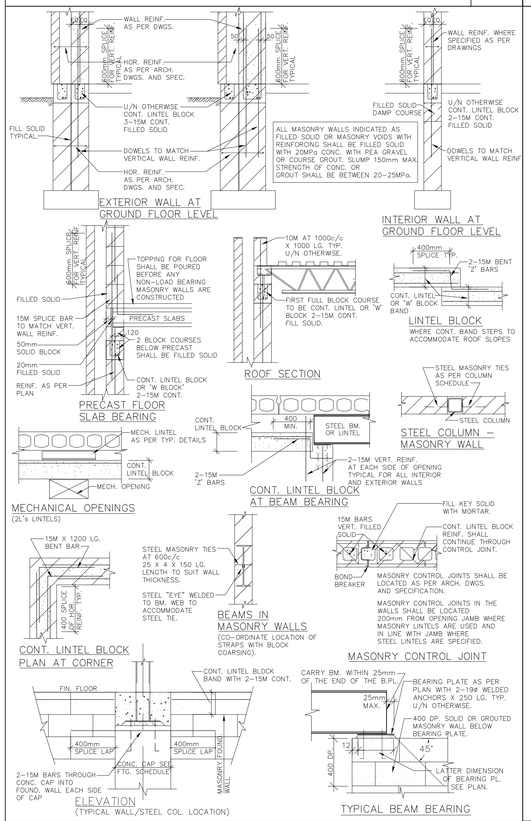
1. JOINT SHALL BE LOCATED SO AS NOT TO IMPAIR THE STRENGTH OF THE STRUCTURE.
2. REINF. STEEL AND CONC. SURFACE SHALL BE CLEANED AND TREATED WITH BONDING AGENT.

1. MAXIMUM SPACING OF BARS IN ANY ONE WAY SLAB IS 5 X SLAB THICKNESS, MAXIMUM SPACING 500.
2. AT NON-CONTINUOUS END, ALL TOP BARS SHALL BE CARRIED TO WITHIN 75 OF OUTER EDGE OF CONSTRUCTION AND SHALL TERMINATE IN A 90°HOOK, MAINTAINING A MINIMUM DIMENSION "A" AS SHOWN IN TABLE BELOW FOR THE GIVEN STRENGTH OF CONCRETE. WHERE BEAM WILL NOT ACCOMMODATE A 90° HOOK, A 180 HOOK SHALL BE USED, MAINTAINING A MINIMUM DIMENSION "A" FOR BAR SPACING GREATER THAN 150, TABULATE VALUES MAY BE MULTIPLIED BY 0.5.
3. TEMPERATURE REINFORCING SHALL BE PROVIDED IN ALL ONE WAY SLABS. BARS ARE TO BE LAPPED 36 DIAMETERS. MAXIMUM SPACING OF TEMPERATURE REINFORCING SHALL BE 5 TIMES THE SLAB THICKNESS BUT NOT MORE THAN 500. SEE TABLE BELOW.
4. WHERE 150 STRAIGHT EMBEDMENT IS NOT POSSIBLE PROVIDE A STANDARD 90°HOOK LAID FLAT.
5. L IS THE GREATER OF L1 AND L2.
6. LONG BARS SHALL ALTERNATE WITH SHORT BARS.
7. DIMENSIONS GIVEN ARE IN MILLIMETERS.
8. FOR CONCRETE COVER REFER TO CSA 23.1. COVER SHALL NOT BE LESS THAN REQUIRED FOR FIRE RATING.

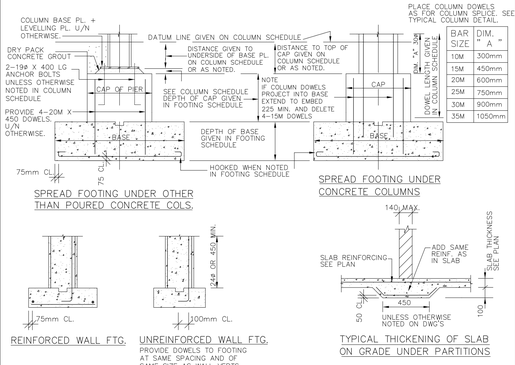
TEMPERATURE REINFORCING Fy = 400MPa			
SLAB(mm) THICKNESS	REINF. (As= 0.002 Ag)	SLAB(mm) THICKNESS	REINF. (As= 0.002 Ag)
65	10M AT 500	200	15M AT 500
100	10M AT 500	215	15M AT 460
115	10M AT 450	225	15M AT 440
125	10M AT 410	240	15M AT 410
135	10M AT 380	250	15M AT 400
150	10M AT 340	265	15M AT 380
165	10M AT 310	275	15M AT 360
175	10M AT 290	290	15M AT 340
190	10M AT 270	300	15M AT 330

BAR	DIMENSION " A " MINIMUM		
	Fy = 400MPa		
	f'c= 20MPa	f'c= 25MPa	f'c= 30MPa
10M	400mm	370mm	355mm
15M	575mm	540mm	510mm
20M	720mm	675mm	640mm
25M	920mm	870mm	820mm
30M	1115mm	1045mm	995mm
35M	1340mm	1260mm	1200mm

ONE WAY SLAB DETAILS — 1

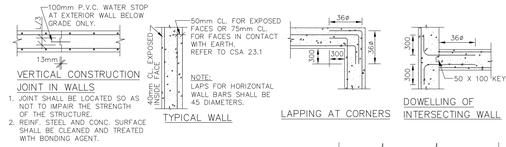


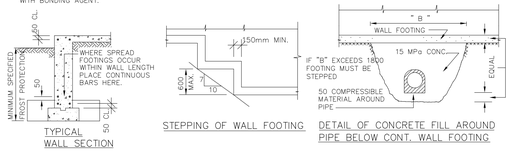
MASONRY DETAILS — 5



SPREAD FOOTING UNDER OTHER THAN POURED CONCRETE COLS.

SPREAD FOOTING UNDER CONCRETE COLUMNS

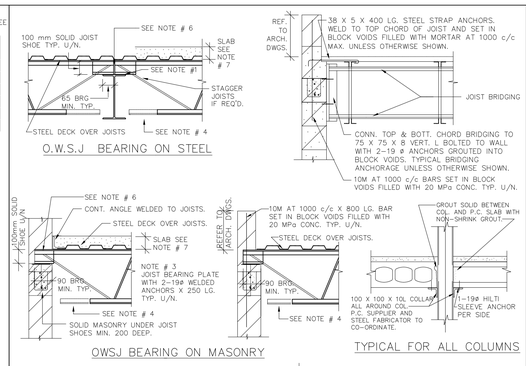




FOUNDATION & WALL DETAILS — 2

1. VARIATION FROM PLUMB:
   A. IN THE LINES AND SURFACES OF COLUMNS, PIERS, WALLS AND IN ARRISES:
      IN ANY 3000mm OF LENGTH . . . 5mm
      MAXIMUM FOR THE ENTIRE LENGTH . . . 25mm
   B. FOR EXPOSED CORNER COLUMNS, CONTROL JOINT GROOVES, AND OTHER CONSPICUOUS LINES:
      IN ANY 6000mm LENGTH . . . 5mm
      MAXIMUM FOR THE ENTIRE LENGTH . . . 15mm
2. VARIATION FROM THE LEVEL OR FROM THE GRADES SPECIFIED IN THE CONTRACT DOCUMENTS:
   A. IN SLAB SOFFITS, CEILINGS, BEAM SOFFITING SHORES
      IN ANY 3000mm OF LENGTH . . . 5mm
      IN ANY BAY OR ANY 6000mm . . . 10mm
      MAXIMUM FOR THE ENTIRE LENGTH . . . 20mm
   B. IN EXPOSED LINTELS, SILLS PARAPETS, HORIZONTAL GROOVES, AND OTHER CONSPICUOUS LINES:
      IN ANY BAY OR IN 6000mm LENGTH . . . 5mm
      MAXIMUM FOR THE ENTIRE LENGTH . . . 15mm
3. VARIATION OF THE LINEAR BUILDING LINES FROM ESTABLISHED POSITION OF PLAN AND RELATED POSITION OF COLUMNS, WALLS AND PARTITIONS:
      IN ANY BAY . . . 15mm
      IN ANY 6000mm OF LENGTH . . . 15mm
      MAXIMUM FOR THE ENTIRE LENGTH . . . 25mm
4. VARIATION IN THE SIZES AND LOCATION OF SLEEVES, FLOOR OPENINGS AND WALL OPENING . . . 5mm
5. VARIATION IN CROSS-SECTIONAL DIMENSIONS OF COLUMNS AND BEAMS AND IN THE THICKNESS OF SLABS AND WALLS:
      MINUS . . . 5mm
      PLUS . . . 15mm
6. FOOTINGS:
   A. VARIATIONS IN DIMENSIONS IN PLAN
      MINUS . . . 15mm
      PLUS . . . 50mm
   B. MISLACEMENT OR ECCENTRICITY 2 PERCENT OF THE FOOTING WIDTH IN THE DIRECTION OF MISPLACEMENT BUT NOT MORE THAN. . . . 50mm
   C. THICKNESS
      DECREASE IN SPECIFIED THICKNESS . . . 5%
      INCREASE IN SPECIFIED THICKNESS . . . NO LIMIT
7. VARIATION IN STEPS:
   A. IN A FLIGHT OF STAIRS:
      RISE . . . 3mm
      TREAD . . . 5mm
   B. IN CONSECUTIVE STEPS:
      RISE . . . 2mm
      TREAD . . . 3mm
8. LOCATION OF SLEEVES, OPENINGS, INSERTS AND BOLTS: . . . 5mm
9. FABRICATION OF:
   A. STIRRUPS, TIES, SPIRALS. . . . 5mm
   B. OTHER BARS . . . 15mm
10. PROTECTIVE COVER TO REINFORCEMENT AND EFFECTIVE DEPTH:
   A. MEMBERS 200mm EFFECTIVE DEPTH OR LESS . . . 10mm
   B. MEMBERS MORE THAN 200mm . . . 15mm
11. FLOOR FINISH IN ANY 3000mm . . . 6mm

CONSTRUCTION TOLERANCES — 6



NOTES:

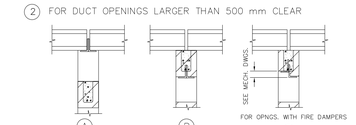
1. OWSJ BEARING, ANCHORAGE AND BRIDGING REQUIREMENTS SHALL BE IN ACCORDANCE WITH CAN – S16.1
2. CONTRACTOR TO TAKE ALL NECESSARY PRECAUTIONS WHEN POURING CONC. SLABS OVER OWSJ TO AVOID LATERAL DEFLECTION AND TWISTING OF JOISTS. THIS APPLIES PARTICULAR TO FREE ENDS OF JOISTS RUNS.
3. JOISTS BEARING PLATES SHALL BE DESIGNED BY JOIST DESIGNER AND 50mm WIDER THAN JOIST SHOE.
4. PROVIDE CEILING EXTENSIONS WHERE REQUIRED.
5. JOISTS MARKED T.J. ON PLANS DENOTES TIE JOISTS.
6. JOIST WORKING POINT SHALL BE LOCATED IN MIDDLE ⅓ OF BEAM FLANGE OR SUPPORTING WALL.
7. TYP. SLAB U/N OTHERWISE – 65mm CONC. SLAB OVER STEEL DECK. SLAB REINF. 152 X 152 MW18.7/MW18.7 WWF PLACED 40mm FROM TOP SURFACE.

STRUCTURAL STEEL AND OPEN WEB STEEL JOIST DETAILS — 3

LINTELS FOR DUCT OPENINGS THRU WALLS SUPPORTING P.C. SLABS

(1) SMALL DUCT OPENINGS

(2) FOR DUCT OPENINGS LARGER THAN 500 mm CLEAR

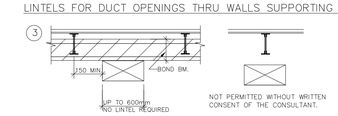


CLEAR SPAN	WALL THICKNESS		
	190 WALL	240 WALL	290 WALL
UP TO 700 mm	2 L's 90 X 90 X 8	1 L 125 X 90 X 8 LLH + 1 L 100 X 100 X 8	3 L's 90 X 90 X 8
UP TO 950 mm	2 L's 125 X 90 8 LLV	2 L's 150X100X8 LLV	3 L's 125X90X8 LLV
UP TO 2400 [UNLESS NOTED OTHERWISE ON DWGS]	W150 X 22 OR W150X22 + 170X8 PL. BOT. FOR MAS.	W150 X 22 OR W150X22 + 220X8 PL. BOT. FOR MAS.	W150 X 22 OR W150X22 + 270X8 PL. BOT. FOR MAS.

FOR 390 THICK WALLS PROVIDE LINTELS AS FOR 2-190 WALLS

LINTELS FOR DUCT OPENINGS THRU WALLS SUPPORTING O.W.S.J.

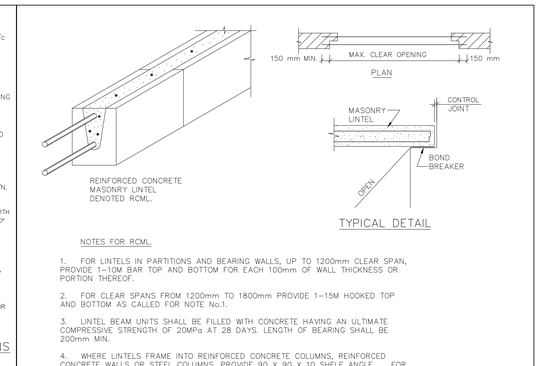
(3)



– PROVIDE MINIMUM 400mm SOLID MASONRY BETWEEN MECHANICAL OPENINGS. TYPICAL

– UNLESS NOTED OTHERWISE, FOR OPENINGS IN EXTERIOR WALLS PROVIDE LINTEL AS NOTED ABOVE FOR BACK UP WALL + STEEL ANGLE FOR VENEER. PROVIDE 90 X 90 X 8L FOR SPAN UP TO 1200mm OR 150 X 90 X 8L LLV FOR SPAN UP TO 2000mm.

LINTELS FOR DUCTS AND SERVICES — 7



NOTES FOR RCML

1. FOR LINTELS IN PARTITIONS AND BEARING WALLS, UP TO 1200mm CLEAR SPAN, PROVIDE 1–10M BAR TOP AND BOTTOM FOR EACH 100mm OF WALL THICKNESS OR PORTION THEREOF.
2. FOR CLEAR SPANS FROM 1200mm TO 1800mm PROVIDE 1–15M HOOKED TOP AND BOTTOM AS CALLED FOR NOTE No.1.
3. LINTEL BEAM UNITS SHALL BE FILLED WITH CONCRETE HAVING AN ULTIMATE COMPRESSIVE STRENGTH OF 20MPa AT 28 DAYS. LENGTH OF BEARING SHALL BE 200mm MIN.
4. WHERE LINTELS FRAME INTO REINFORCED CONCRETE COLUMNS, REINFORCED CONCRETE WALLS OR STEEL COLUMNS, PROVIDE 90 X 90 X 10 SHELF ANGLE. FOR ANCHORAGE, USE WELDING OR 2-19ø INSERT ANCHORS, EXCEPT AS OTHERWISE SPECIFIED ON DRAWINGS.

CLEAR SPAN	140mm WALL		190mm WALL		240mm WALL		290mm WALL	
	TYPE	MATERIAL	TYPE	MATERIAL	TYPE	MATERIAL	TYPE	MATERIAL
UP TO 1200mm	JL	2L'S 90 X 65 X 8 LLV	JL	2L'S 90 X 90 X 8	JL	2L'S 100 X 100 X 8	JL L	3L'S 90 X 90 X 8
1200mm TO 2000mm	JL	2L'S 90 X 65 X 8 LLV	JL	2L'S 150 X 90 X 8 LLV	JL	2L'S 150 X 100 X 8 LLV	JL L	3L'S 150 X 90 X 8

NOTES FOR STEEL LINTELS

1. DOUBLE ANGLES SHALL BE PLACED BACK TO BACK AND BOLTED TOGETHER WITH BOLTS AT 600o/c OR EQUIVALENT STITCHWELD TOP AND BOTTOM 16ø MIN.
2. MINIMUM BEARING OF LINTELS SHALL BE 150mm SEE PLAN ABOVE
3. FOR WALLS THICKER THAN 290mm ADD 1 ANGLE OF SIZE SPECIFIED ABOVE FOR EVERY 100 OF MASONRY OR PORTION THEREOF.
4. SEE NOTE No.4 ABOVE
5. FOR LINTELS IN NON–LOAD BEARING 140 WALLS OVER 2000mm, PROVIDE W200 X 27 BEAM.
6. PROVIDE SINGLE 90 X 90 X 8L FOR OPENINGS IN 90mm BLOCK ENCLOSURES FOR SPAN UP TO 1200mm. FOR LOCATIONS SEE ARCHITECTURAL AND MECHANICAL DRAWINGS.

LINTEL DETAILS — 4

CHECK ALL DIMENSIONS SHOWN ON THE STRUCTURAL DRAWINGS AND REPORT DISCREPANCIES TO THE ARCHITECT BEFORE PROCEEDING WITH THE WORK.

FOR LOCATION OF SUMPS, PITS, BASES AND DEPRESSIONS REFER TO ARCHITECTURAL, MECHANICAL AND ELECTRICAL DRAWINGS.

DO NOT EXCEED THE DESIGN LIVE LOADS SHOWN DURING CONSTRUCTION.

THIS STRUCTURE HAS BEEN DESIGNED TO COMPLY WITH O.B.C. 2024.

THE GENERAL CONTRACTOR SHALL EXAMINE EXISTING SITE CONDITIONS AND REPORT ANY INCONSISTENCIES TO THE ARCHITECT BEFORE STARTING ANY WORK.

REFER TO ARCHITECTURAL DRAWINGS FOR STEPPING OF WALL FOOTINGS.

FOUNDATION NOTES:

FOOTING EXCAVATIONS SHALL BE INSPECTED BY A SOILS ENGINEER BEFORE CONCRETE IS PLACED.

FOOTINGS EXPOSED TO FREEZING SHALL BE PLACED AT LEAST 1200mm BELOW FINISHED GRADE.

PROTECT FOOTINGS EXPOSED TO FROST ACTION DURING CONSTRUCTION BY 1200mm OF SOIL OR ITS EQUIVALENT.

THE LINE OF SLOPE BETWEEN ADJACENT FOOTINGS, EXCAVATIONS OR ALONG STEPPED FOOTINGS SHALL NOT EXCEED A RISE OF 7 IN A RUN OF 10, MAXIMUM STEP 600mm.

WHERE A FOUNDATION WALL RETAINS SOIL ON EACH FACE BACKFILL ON BOTH SIDES SIMULTANEOUSLY.

PROVIDE FOOTINGS FOR PARTITIONS THICKER THAN 150mm.

REFER TO THE SOIL REPORT FOR SOIL CONDITIONS AND BEARING PRESSURES.

STRUCTURAL STEEL NOTES:

CENTRE BEARING PLATES UNDER BEAMS OR AS NOTED. BEARING PLATE DIMENSION GIVEN LAST INDICATES SIDE PARALLEL TO BEAM WEB.

STRUCTURAL STEEL SHALL BE GRADE G40.21M 350W HOLLOW STRUCTURAL SECTIONS WHICH SHALL BE G40.21M 350W CLASS C.

CONCRETE NOTES:

THE ULTIMATE 28 DAY STRENGTH OF CONCRETE SHALL BE 25MPa. REINFORCING STEEL SHALL BE DEFORMED BARS OF 400MPa YIELD STRENGTH.

MASONRY NOTES:

PROVIDE MINIMUM 200mm OF BEARING FOR STEEL OR CONCRETE BEAMS SUPPORTED ON MASONRY. REFER TO DRAWINGS FOR SIZES OF BEARING PLATES. BEARING SHALL BE OF SOLID BLOCK OR BLOCK FILLED SOLID WITH 20MPa CONCRETE 400mm DEEP AND PROJECTING 200mm EACH SIDE OF BEAM BEARING PLATE, BASE PLATE OR CONCRETE PAD. REFER ALSO TO TYPICAL DETAIL SHEET 4M.

PROVIDE 200mm DEPTH OF SOLID MASONRY UNDER STEEL JOISTS BEARING ON MASONRY.

BUILD MASONRY TIGHT INTO WEBS OF BEAMS AT THEIR BEARINGS.

PROVIDE ALL TEMPORARY BRACING REQUIRED TO HOLD ALL WALLS PLUMB AND TRUE TO LINE DURING CONSTRUCTION UNTIL THE BUILDING IS COMPLETED.

ALL LOAD BEARING MASONRY WALLS SHALL BE "ENGINEERED MASONRY" IN COMPLIANCE WITH CAN/CSA S304.1.

ALL BLOCK WALLS SHALL BE CONSTRUCTED FROM CONCRETE BLOCK UNITS IN COMPLIANCE WITH CAN3/CSA–A165 SERIES. MINIMUM COMPRESSIVE STRENGTH 15MPa UNLESS NOTED OTHERWISE ON DRAWINGS.

ALL BLOCK VOIDS WITH REINFORCING BARS SHALL BE FILLED SOLID WITH 20MPa OR COURSE GROUT.

PROVIDE MINIMUM TWO SOLID OR FILLED SOLID WITH 20MPa CONCRETE, BLOCK COURSES FOR ALL PRECAST SLABS SUPPORTED ON MASONRY.

ALL MASONRY PARTITIONS SHALL BE CONSTRUCTED ON TOP OF CONCRETE TOPPING OF PRECAST FLOORS SLABS.

PRECAST CONCRETE SLABS:

PRECAST CONCRETE SLABS SHALL BE DESIGNED IN COMPLIANCE WITH ALL APPLICABLE CODES AND SHOP DRAWINGS SHALL BE STAMPED BY A PROFESSIONAL ENGINEER LISCENCED IN ONTARIO.

THE PRECAST SLAB SUPPLIER SHALL REVIEW THE TENDER DOCUMENTS AND CARRY IN HIS TENDER COSTS FOR ANY ADDITIONAL MATERIAL REQUIRED TO ACCOMMODATE PRECAST BEARING BUT NOT INDICATED ON THE STRUCTURAL DRAWINGS.

GENERAL NOTES — 8

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March 16, 2026
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GEODETIC NORTH
PROJECT NORTH

project
WATERLOO REGION DISTRICT SCHOOL BOARD
EMPIRE PUBLIC SCHOOL
HVAC AND WINDOW RENOVATIONS
83 EMPIRE STREET, WATERLOO, ON N2L 2M1

drawing
TYPICAL DETAILS AND GENERAL NOTES

drawing scale
NA

wax299 project number
25019 - EMPIRE PS WRDSB

VX Engineering project number
2609 - EMPIRE PS

drawing no.
S-2

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