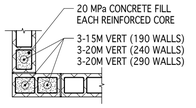
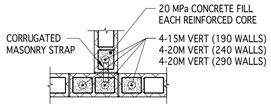
MASONRY WALL SCHEDULE

MARK	WIDTH	REINFORCING/DESCRIPTION
MW1	190	30MPa UNITS 15M VERTICALS @ 800 O/C, FULLY GROUT CORES
MW2	190	30MPa UNITS 15M VERTICALS @ 800 O/C, GROUT CORES @ 800 O/C
MW3	190	30MPa UNITS 15M VERTICALS @ 400 O/C, FULLY GROUT CORES

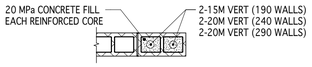
NOTE:
- PROVIDE VERTICAL DOWELS FROM TOP OF CONCRETE WALL OR BEAM TO MATCH BLOCK WALL REINFORCING SIZE & SPACING. FOR NON-LOAD BEARING BLOCK WALLS ON CONCRETE BEAMS/WALLS, PROVIDE 15M DOWELS AT 800 O/C. REINFORCING TO EXTEND MIN 600 INTO BLOCK WALL IN GROUTED CORES.
- PROVIDE STANDARD DUR-O-WALL HORIZONTAL JOINT REINFORCING AT 400 O/C IN ALL BLOCK WALLS, U/N OTHERWISE.
- ALL GROUT TO BE MIN 20 MPa CONCRETE AS PER GENERAL NOTES.
- PROVIDE 200 DEEP BOND BEAM R/W 2-10M CONT, 20 MPa CONCRETE FILLED AT EACH FLOOR LEVEL.
- ALL REINFORCING NOTED ABOVE TO HAVE FULL TENSION SPLICE LAPS.
- VERTICAL WALL REINFORCING TO BE CENTERED IN WALLS.



3 FILLED CORES AT CORNER
- ALL INTERSECTING LOAD BEARING WALLS TO BE TOOTHED INTO EACH OTHER



4 FILLED CORES AT T-INTERSECTIONS
- CORRUGATED MASONRY STRAP TO EXTEND IN TO PERPENDICULAR BEARING AND NON-BEARING WALLS EVERY SECOND COURSE



2 FILLED CORES AT END OF WALL OR NEXT TO OPENINGS
- ALSO APPLIES EACH SIDE OF CONTROL JOINT LOCATIONS

MASONRY COLUMN SCHEDULE

MARK	REINFORCING/DESCRIPTION
MC1	4 CORES (800 WIDE) 4-20M VERTICAL (1 PER CORE)
MC2	2 CORES (400 WIDE) 2-20M VERTICAL (1 PER CORE)
MC3	3 CORES (600 WIDE) 3-20M VERTICAL (1 PER CORE)

MASONRY COLUMN SCHEDULE NOTES:
- NO CUT BLOCKS, OPENINGS OR EMBEDDED CONDUITS PERMITTED WITHIN MASONRY COLUMNS UNLESS REVIEWED AND APPROVED BY CONSULTANT.

MASONRY LINTEL SCHEDULE

MARK	REINFORCING/DESCRIPTION
ML1	190x400 1-15M TOP 2-15M BOTTOM 10M SINGLES LEG TIES @ 400 O/C
ML2	190x646 1-15M TOP 2-15M BOTTOM 10M SINGLES LEG TIES @ 200 O/C
ML3	190x600 1-15M TOP 2-15M BOTTOM 10M SINGLES LEG TIES @ 400 O/C
ML4	190x800 1-15M TOP 2-15M BOTTOM 10M SINGLES LEG TIES @ 400 O/C
ML5	190x1400 1-15M TOP 2-15M BOTTOM 10M SINGLES LEG TIES @ 400 O/C

MASONRY LINTEL NOTES:
- 400 BEARING EACH END UNLESS NOTED.
- ALL LINTELS TO BE GROUTED SOLID WITH 20 MPa CONCRETE, INCLUDING FROGS (SPACES BETWEEN BLOCKS).
- 190 U-BLOCK LINTEL ABOVE MECH OPENINGS 400 WIDE OR LESS R/W 2-10M BOTTOM. 200 BEARING EACH END. GROUT MIN 2 CORE BELOW BEARING. MECH OPENINGS ARE NOT TO CUT THROUGH BOND BEAM OR END OF WALL/MASONRY COLUMN REINFORCING. FOR MECH OPENINGS GREATER THAN 400 WIDE, 400 DEEP LINTEL ABOVE U/N OTHERWISE
- 190 U-BLOCK LINTEL R/W 1-15M CONTINUOUS ABOVE SEMI-RECESSED EQUIPMENT IN BLOCK WALLS, APPLIES TO FORCED FLOW HEATERS, DRINKING FOUNTAINS, FIRE EXTINGUISHERS, ETC.
- 190 DEEP FULLY GROUTED BOND BEAM R/W 2-15M CONTINUOUS BELOW WINDOWS. EXTEND 200 PAST OPENING EACH END.

BEARING PLATE SCHEDULE

MARK	DESCRIPTION
BRG1	190x200x16 BEARING PLATE 2-13Øx150 LONG NELSON STUDS @ 100 O/C INTO 20MPa CONCRETE FILLED CORES
BRG2	190x190x13 BEARING PLATE C/W 2-19Øx150 LONG NELSON STUDS INTO 20MPa CONCRETE FILLED CORES

WELD PLATE SCHEDULE

MARK	DESCRIPTION
WP2	300x300x10 WELD PLATE 4-13Øx125 EMBED THREADED ROD C/W HILTI HIT-HY270 ADHESIVE INTO FULLY GROUTED CORES AT BOTTOM CHORD EXTENSION

WELD PLATE NOTES:
- NELSON STUDS AND ANCHORS TO HAVE 38 EDGE DISTANCE AND BE EQUALLY SPACED UNLESS NOTED OTHERWISE

CONCRETE SLAB SCHEDULE

MARK	THICKNESS	REINFORCING/DESCRIPTION
S1	150	15M @ 300 O/C BOTTOM LOWER LAYER 10M @ 300 O/C BOTTOM UPPER LAYER (TEMPERATURE STEEL) 150 CARDBOARD VOID FORM
S2	200	15M @ 400 O/C BOTTOM EACH WAY 150 CARDBOARD VOID FORM
S3	300	15M @ 300 O/C EACH WAY TOP & BOTTOM 150 CARDBOARD VOID FORM

MASONRY VENEER SUPPORT ANGLE SCHEDULE

MARK	DESCRIPTION
A1	L102x102x7.9 GALVANIZED LOOSE ANGLE LINTEL 200 BEAING EACH END
A2	L152x102x7.9 LLV GALVANIZED LOOSE ANGLE LINTEL 200 BEAING EACH END

CONCRETE BEAM SCHEDULE

MARK	WIDTH	HEIGHT	REINFORCING	UPSTAND	TYPE
B1	200	600	2-25M TOP & BOTTOM 10M STIRRUPS @ 400 O/C	-	
B2	250	750	4-25M TOP & BOTTOM CONTINUOUS (2 LAYERS) 1-15M CONTINUOUS HORIZONTAL EACH FACE 15M STIRRUPS @ 400 O/C	-	
B3	300	750	2-25M TOP & BOTTOM CONTINUOUS 1-15M CONTINUOUS HORIZONTAL EACH FACE 10M STIRRUPS @ 400 O/C	-	
B4	250	750	2-25M TOP & BOTTOM CONTINUOUS 1-15M CONTINUOUS HORIZONTAL EACH FACE 10M STIRRUPS @ 400 O/C	200x354 CONCRETE UPSTAND 2-15M TOP & 10M U-BARS @ 400 O/C	
B5	325	750	2-25M TOP & BOTTOM CONTINUOUS 1-15M CONTINUOUS HORIZONTAL EACH FACE 10M STIRRUPS @ 400 O/C	200x354 CONCRETE UPSTAND 2-15M TOP & 10M U-BARS @ 400 O/C	
B6	375	750	3-25M TOP & BOTTOM CONTINUOUS 1-15M CONTINUOUS HORIZONTAL EACH FACE 10M STIRRUPS @ 400 O/C	200x354 CONCRETE UPSTAND 2-15M TOP & 10M U-BARS @ 400 O/C	
B7	450	750	3-25M TOP & BOTTOM CONTINUOUS 1-15M CONTINUOUS HORIZONTAL EACH FACE 10M STIRRUPS @ 300 O/C	200x354 CONCRETE UPSTAND 2-15M TOP & 10M U-BARS @ 300 O/C	
B8	300	600	3-25M TOP & BOTTOM CONTINUOUS 15M STIRRUPS @ 300 O/C	-	
B9	300	600	3-25M TOP AND BOTTOM 15M STIRRUPS @ 300 O/C	150x126 CONCRETE UPSTAND 1-15M TOP & 10M HAIR PINS @ 300 O/C	
B10	300	750	3-25M TOP & BOTTOM CONTINUOUS 1-15M CONTINUOUS HORIZONTAL EACH FACE 10M STIRRUPS @ 400 O/C	200x354 CONCRETE UPSTAND 2-15M TOP & 10M U-BARS @ 400 O/C	
B11	250	2000	2-25M TOP & BOTTOM CONTINUOUS 6-15M CONTINUOUS HORIZONTAL EACH FACE 10M STIRRUPS @ 450 O/C	200x354 CONCRETE UPSTAND 2-15M TOP & 10M U-BARS @ 450 O/C	
B12	300	1949	2-25M TOP & BOTTOM CONTINUOUS 6-15M CONTINUOUS HORIZONTAL EACH FACE 10M STIRRUPS @ 450 O/C	200x354/405 CONCRETE UPSTAND 2-15M TOP & 10M U-BARS @ 450 O/C	
B13	300	2000	2-25M TOP & BOTTOM CONTINUOUS 6-15M CONTINUOUS HORIZONTAL EACH FACE 10M STIRRUPS @ 450 O/C	200x354 CONCRETE UPSTAND 2-15M TOP & 10M U-BARS @ 450 O/C	
B14	325	2000	2-25M TOP & BOTTOM CONTINUOUS 6-15M CONTINUOUS HORIZONTAL EACH FACE 10M STIRRUPS @ 450 O/C	200x354 CONCRETE UPSTAND 2-15M TOP & 10M U-BARS @ 450 O/C	
B15	325	1949	2-25M TOP & BOTTOM CONTINUOUS 6-15M CONTINUOUS HORIZONTAL EACH FACE 10M STIRRUPS @ 450 O/C	200x480 CONCRETE UPSTAND 2-15M TOP & 10M U-BARS @ 450 O/C	
B16	200	2204	2-20M TOP & BOTTOM CONTINUOUS 15M @ 300 O/C HORIZONTAL EACH FACE 10M STIRRUPS @ 300 O/C HOOK BARS 450 IN TO ADJACENT BEAMS		
B17	300	600	3-25M TOP AND BOTTOM 15M STIRRUPS @ 300 O/C	150x75 CONCRETE UPSTAND 1-15M TOP & 10M HAIR PINS @ 300 O/C	

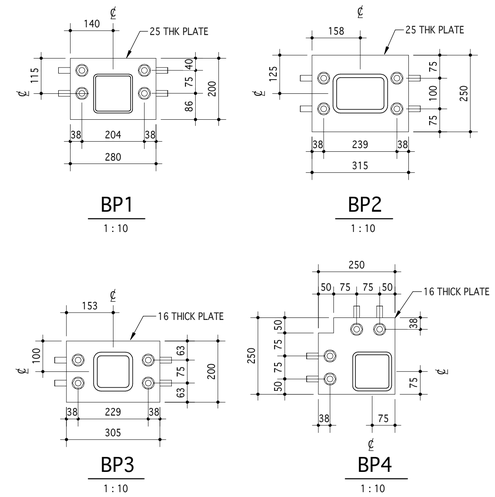
COLUMN SCHEDULE

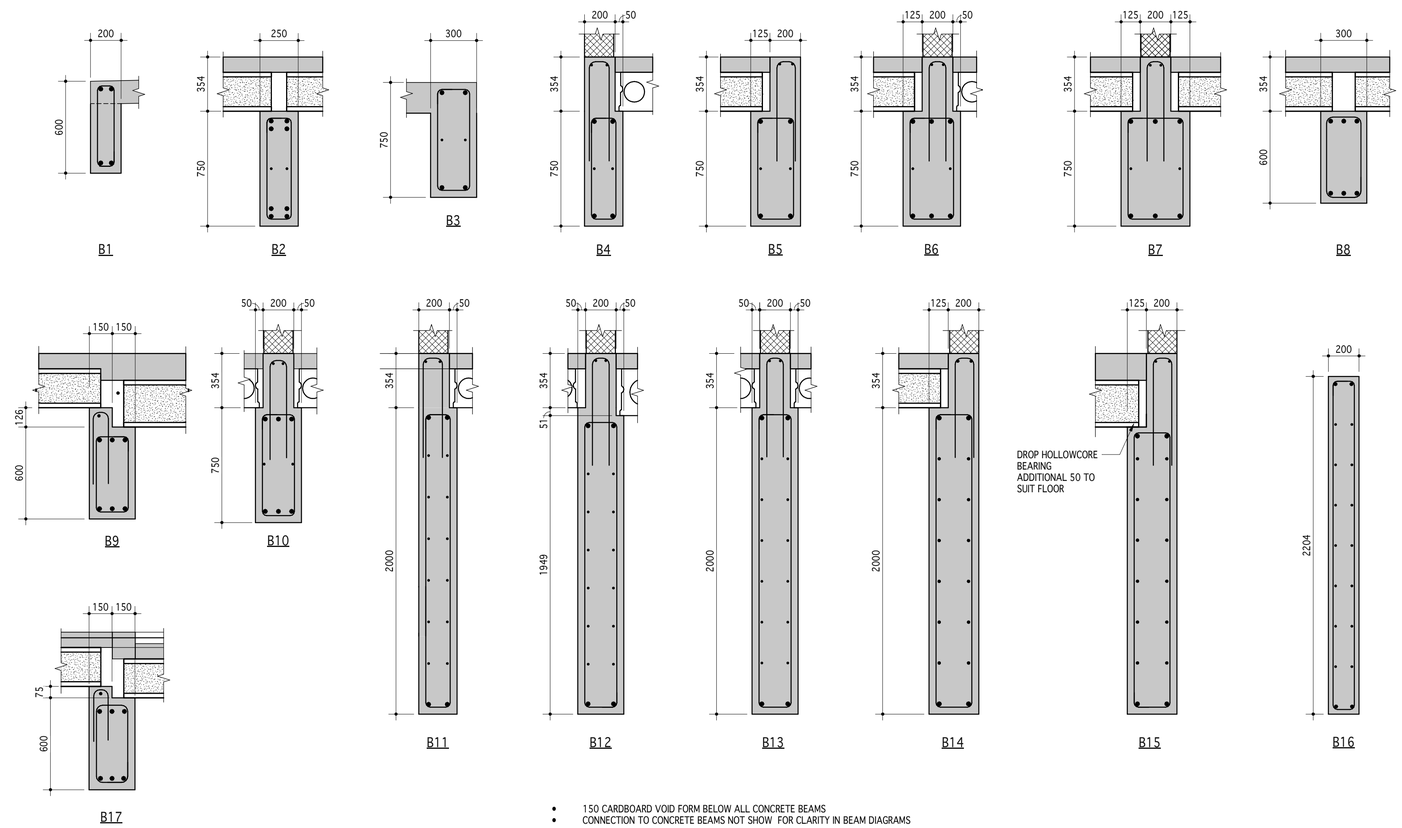
MARK	DESCRIPTION	BASE PLATE TYPE	BASE PLATE U/S ELEVATION	REMARKS
C1	HSS 127x127x6.4	BP1	99671	25 NON-SHRINK GROUT C/W 4-19Ø ANCHOR BOLTS x 450 LONG+ 75 HOOK
C2	HSS 127x127x13	BP1	99671	25 NON-SHRINK GROUT C/W 4-19Ø ANCHOR BOLTS x 450 LONG+ 75 HOOK
C3	HSS 178x127x13	BP2	99671	25 NON-SHRINK GROUT C/W 4-19Ø ANCHOR BOLTS x 450 LONG+ 75 HOOK
C4	HSS 127x127x13	BP3	99545	25 NON-SHRINK GROUT C/W 4-19Ø ANCHOR BOLTS x 450 LONG+ 75 HOOK
C5	HSS 127x127x9.5	BP4	99545	25 NON-SHRINK GROUT C/W 4-19Ø ANCHOR BOLTS x 450 LONG+ 75 HOOK
C6	HSS 127x127x13	BP3	99671	25 NON-SHRINK GROUT C/W 4-19Ø ANCHOR BOLTS x 450 LONG+ 75 HOOK

PILASTER SCHEDULE

MARK	REINFORCING
PIL1	500x500 x FULL BEAM HEIGHT 8-15M VERTICALS 4-10M TIES
PIL2	500x500 x FULL BEAM HEIGHT 8-15M VERTICALS 4-10M TIES
PIL3	500x500 x FULL BEAM HEIGHT 8-15M VERTICALS 4-10M TIES
PIL4	500x500 x FULL BEAM HEIGHT 8-15M VERTICALS 4-10M TIES

PILASTER SCHEDULE NOTES:
- REFER TO DRAWING S5.1 FOR PLAN DETAILS.





- 150 CARDBOARD VOID FORM BELOW ALL CONCRETE BEAMS
- CONNECTION TO CONCRETE BEAMS NOT SHOW FOR CLARITY IN BEAM DIAGRAMS

2024-0002

CrosierKilgour
Structural Engineering & Building Performance

LM esp
LM Architectural Group | Environmental Space Planning
500-136 Market Avenue Winnipeg, Manitoba Canada R3B 0P4
t: 204.942.0681 lm-esp.ca

No.	REVISION/DESCRIPTION	BY	DATE
0	ISSUED FOR CONSTRUCTION	NRM	04.01.24

SEAL

PROVINCE OF MANITOBA
N.R. MOSCOVITCH
Member
33947
REGISTERED PROFESSIONAL ENGINEER

ENGINEER GEOSCIENTISTS MANITOBA
Certificate of Authorization
Crosier Kilgour & Partners Ltd.
No. 235

ZBG DRAWN	NRM CHECKED	NRM DESIGNED	NRM APPROVED
DATE 2024.04.01	USER APPROVAL		

Winnipeg
THE CITY OF WINNIPEG
ASSETS & PROJECT MANAGEMENT DEPARTMENT
MUNICIPAL ACCOMMODATIONS DIVISION
3–65 GARRY STREET, R3C 4K4

PROJECT
PEMBINA TRAILS COLLEGIATE
VOCATIONAL WING
TENDER NO. 954-2023B
50 FRONTIER TRAIL, WINNIPEG, MANITOBA, R3Y 2H1

SHEET TITLE
SCHEDULES

SCALE	PROJECT No:	SHEET No:
As indicated	2020-127	S1.2

DRAWING SHEET SIZE: A1 (594x841) PLOT 1:1

LMesp COMM. NO. 1929V