

FOOTING SCHEDULE				
MARK	SIZE	REINFORCING		REMARKS
		TOP	BOTTOM	
F-1	1200 x 1200 x 350	-	5 - 15M E.W.	-
F-2	1400 x 1400 x 350	-	6 - 15M E.W.	-
F-3	1600 x 1600 x 350	6 - 15M E.W.	6 - 15M E.W.	-
F-4	1800 x 1800 x 350	7 - 15M E.W.	7 - 15M E.W.	-
F-5	2000 x 2000 x 350	8 - 15M E.W.	10 - 15M E.W.	-
F-6	2400 x 2400 x 400	9 - 15M E.W.	11 - 20M E.W.	-
F-7	2800 x 2800 x 500	10 - 15M E.W.	13 - 20M E.W.	-

FOOTING NOTES:
 1. FOOTINGS ARE CENTRED ON GRID LINES U.N.O.
 2. WALL AND STRIP FOOTING REINFORCING TO BE CONTINUOUS THROUGH PILASTERS AND FOOTINGS.

- ### GENERAL NOTES
- CONCRETE CLEAR COVER:
 - TYPICAL (U.N.O.) = 50
 - CAST AGAINST EARTH = 75
 - MINIMUM CONCRETE STRENGTH AT 28 DAYS = 25 MPa (MIN.)
 - ALLOWABLE GROSS SOIL BEARING CAPACITY = 75 kPa SLS (UNFACTORED), 225 kPa ULS.
 - REINFORCING - 400 MPa MIN. YIELD.
 - ALL REINFORCING BAR LAP SPLICES TO BE CLASS 'B', UNLESS NOTED OTHERWISE.
 - EXCAVATIONS TO BE APPROVED BY A QUALIFIED PROFESSIONAL GEOTECHNICAL ENGINEER PRIOR TO FOOTING CONSTRUCTION.
 - CONFIRM ALL DIMENSIONS PRIOR TO CONSTRUCTION. REPORT ANY DISCREPANCIES TO DEPARTMENTAL REPRESENTATIVE.
 - ALL DIMENSIONS ARE IN MILLIMETRES. ALL ELEVATIONS ARE IN METRES.
 - COORDINATE COLUMN GROUNDING CONNECTIONS WITH ELECTRICAL DRAWINGS.
 - COORDINATE SLAB AND FOUNDATION PENETRATIONS WITH APPLICABLE TRADES.
 - COORDINATE FLOOR DRAINS WITH MECHANICAL AND ARCHITECTURAL DRAWINGS.
 - SEE ARCHITECTURAL PLANS FOR ROOM LAYOUTS OF FLOOR SLOPES.
 - SEE ARCHITECTURAL PLANS FOR SLAB DEPRESSIONS, DOOR LOCATIONS, EXTERIOR PAD FOUNDATION LOCATIONS AND EXTENTS OF FOUNDATION WALL TYPE CHANGES.
 - LEGEND AND GENERAL NOTES APPLY TO ALL SERIES 300 DRAWINGS.
 - WHERE WALL SECTION TYPES OVERLAP THE MORE STRINGENT WALL REINFORCING PREVAILS.

- ### LEGEND
- A.F.F. - ABOVE FINISHED FLOOR
 - A.F. - ANCHOR ROD
 - ARP - ANCHOR ROD PATTERN
 - ALT. - ALTERNATE
 - B.L. - BOTTOM LOWER LAYER
 - BOTT. - BOTTOM
 - BUL. - BOTTOM UPPER LAYER
 - C.J. - CONTROL JOINT
 - CON.J. - CONSTRUCTION JOINT
 - CONT. - CONTINUOUS
 - C/W - COMPLETE WITH
 - DIA. - DIAMETER
 - DL - DEAD LOAD
 - DWG. - DRAWING
 - E.F. - EACH FACE
 - EQ. SPC. - EQUAL SPACING
 - EL. - ELEVATION
 - EMBED. - EMBEDMENT
 - E.O.D. - EDGE OF DECK
 - E.S. - EACH SIDE
 - E.W. - EACH WAY
 - EXT. - EXTERIOR
 - FD - FLOOR DRAIN
 - FTG. - FOOTING
 - GALV. - GALVANIZED
 - HKS - HOOKS
 - H.P. - HIGH POINT
 - INT. - INTERIOR
 - Lg. - LONG
 - LLH - LONG LEG HORIZONTAL
 - LLV - LONG LEG VERTICAL
 - MAX. - MAXIMUM
 - MIN. - MINIMUM
 - OPNG. - OPENING
 - PTT - PRESSURE TREATED
 - REINF. - REINFORCING
 - SIM. - SIMILAR
 - SPCS - SPACES
 - SPMD. - STANDARD PROCTOR MAXIMUM DRY DENSITY
 - S.S. - STAINLESS STEEL
 - STD. - STANDARD
 - T&B - TOP AND BOTTOM
 - T.O. - TOP OF
 - THK. - THICK
 - TTL - TOP LOWER LAYER
 - TUL - TOP UPPER LAYER
 - TYP. - TYPICAL
 - U.N.O. - UNLESS NOTED OTHERWISE
 - U/S - UNDERSIDE
 - VI - FACTORED SHEAR FORCE
 - W - WITH
 - WCJ - WALL CONTROL JOINT
 - *
 - **
- SLAB-ON-GRADE RECESSED -50mm. COORDINATE LOCATION w/ ARCHITECTURAL DRAWINGS

Public Works and Services Canada / Travaux Publics et Services gouvernementaux Canada

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exp Project No. FRE-00214763-A5

BUILDINGS - EARTH & ENVIRONMENT
 ENERGY - INDUSTRIAL
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CONST. NORTH

KEY PLAN
 SCALE - NTS

#M7238
 Ryan D. Johnson
 2016-02-17
 REGISTERED PROFESSIONAL ENGINEER
 (REGISTERED IN NEW BRUNSWICK)

0	RELEASED FOR CONSTRUCTION	01/29/2016
revisions		date
project		project

NEW G.O.C.B. SAINT-LÉONARD NEW BRUNSWICK

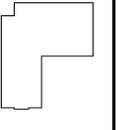
FOUNDATION PLAN

designed RDU	conçu
date JANUARY 29, 2016	
drawn ECM	dessiné
date JANUARY 29, 2016	
approved DAG	approuvé
date FEBRUARY 17, 2016	
Tender	Soumission
PWSSC Project Manager	Administrateur de projets TPSSC
project number R.069499.001	no. du projet
drawing no. 301-1	no. du dessin

E-DRM/GDD-E: 527793



CONST. NORTH

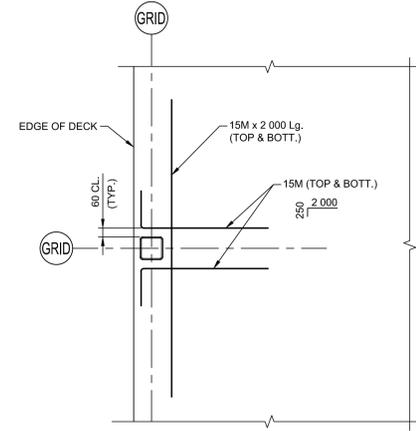
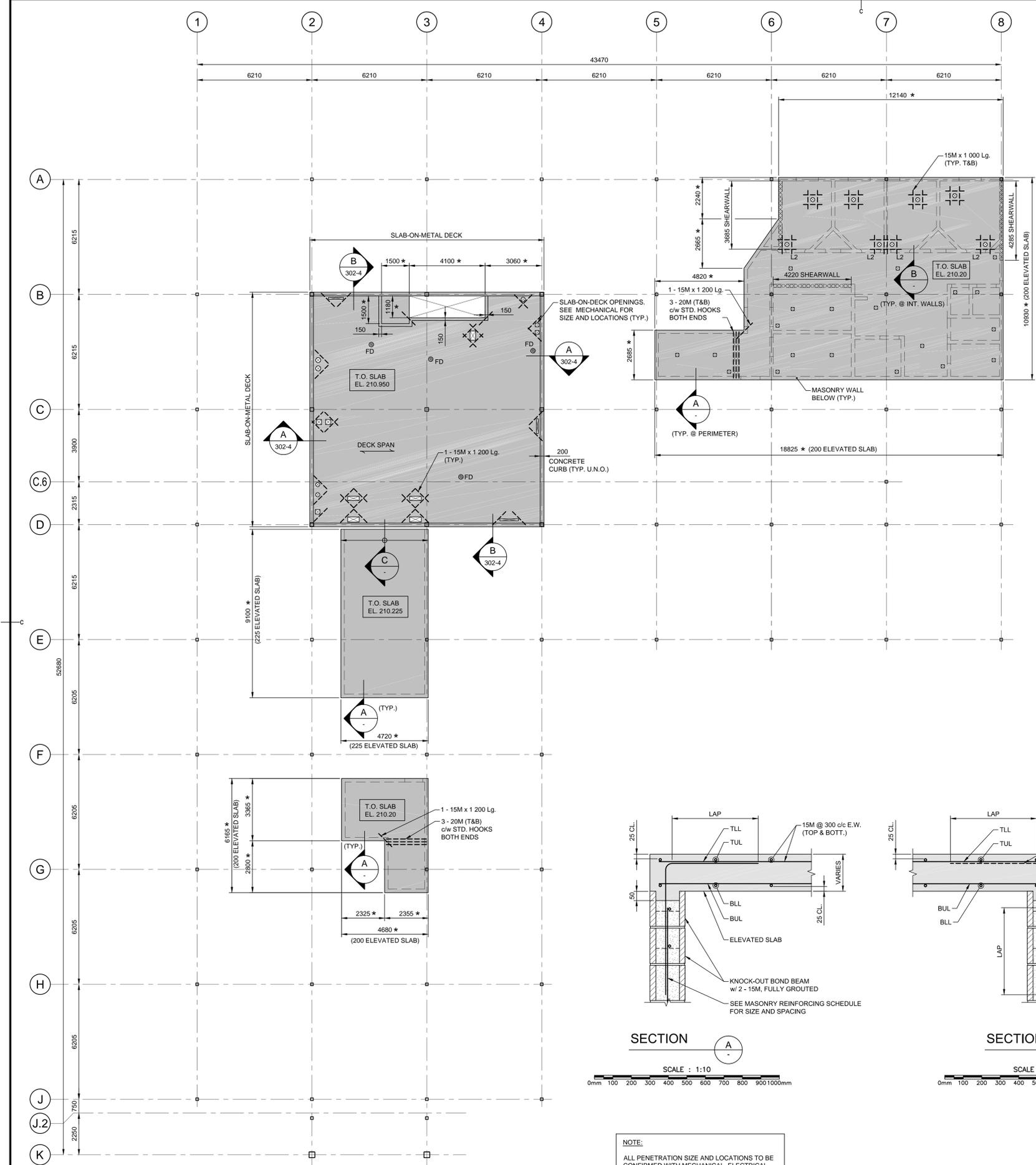


KEY PLAN

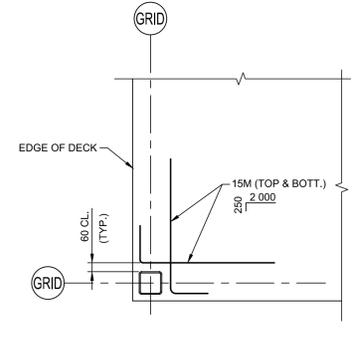
SCALE - NTS

NOTES

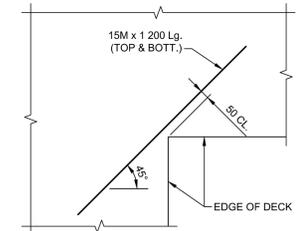
- SEE DRAWING 301-1 FOR GENERAL NOTES AND LEGEND.
- SEE DRAWING 401-1 FOR MASONRY LINTEL SECTIONS AND DETAILS.
- FOR ELEVATED SLABS:
 TUL & BLL - TO RUN PARALLEL w/ GRID LETTERS
 BUL & TLL - TO RUN PARALLEL w/ GRID NUMBERS



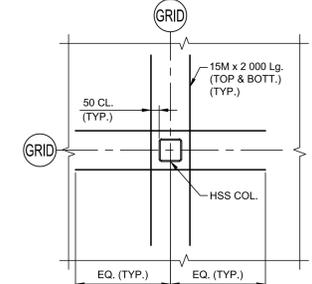
PERIMETER WITH COLUMN



CORNER WITH COLUMN



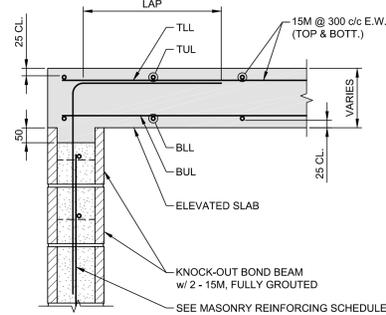
RE-ENTRANT CORNER WITHOUT COLUMN



INTERIOR COLUMN

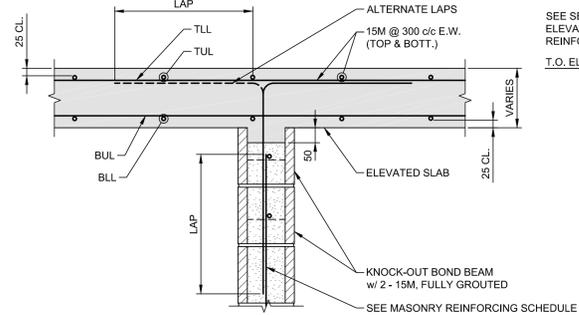
TYPICAL ADDITIONAL ELEVATED SLAB REINFORCING

NOT TO SCALE



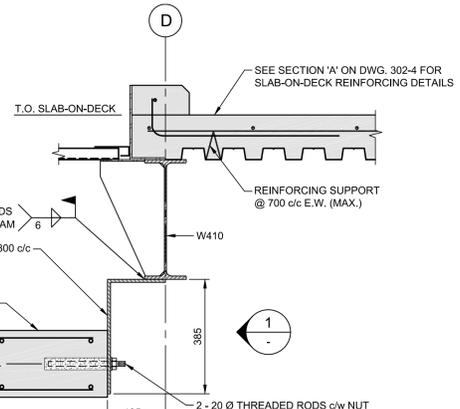
SECTION A

SCALE : 1:10



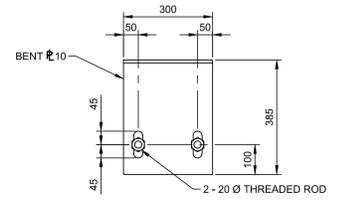
SECTION B

SCALE : 1:10



SECTION C

SCALE : 1:10



ELEVATION 1

SCALE : 1:10

NOTE:
 ALL PENETRATION SIZE AND LOCATIONS TO BE CONFIRMED WITH MECHANICAL, ELECTRICAL AND ARCHITECTURAL DRAWINGS.

MECHANICAL PENTHOUSE SLAB-ON-DECK AND ELEVATED SLAB PLANS

SCALE : 1:100



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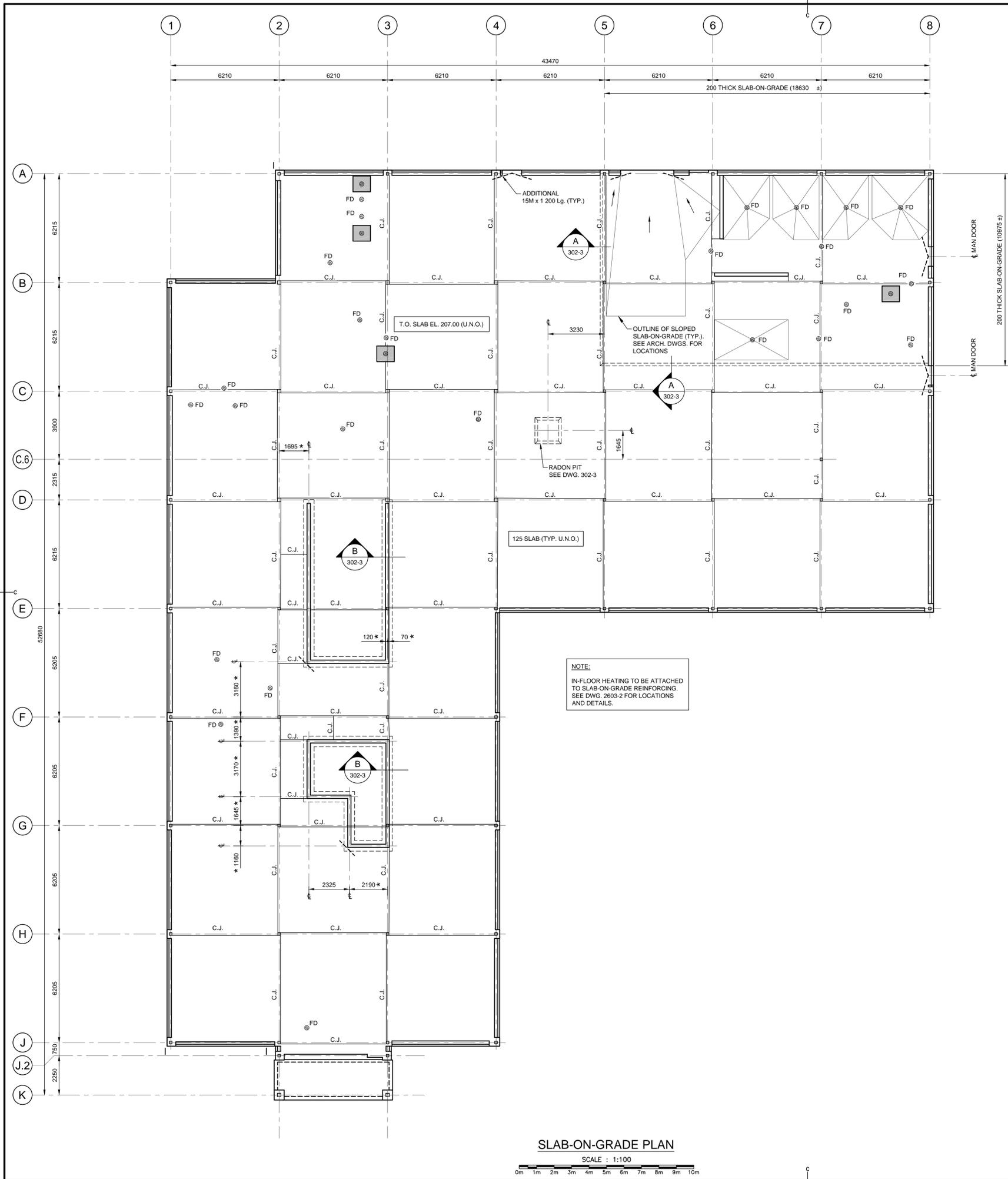
project **NEW G.O.C.B SAINT-LÉONARD NEW BRUNSWICK** project

SLAB-ON-DECK PLAN, ELEVATED SLABS AND SECTIONS AND DETAILS

designed RDU	conçu
date JANUARY 29, 2016	
drawn ECM	dessiné
date JANUARY 29, 2016	
approved DAG	approuvé
date FEBRUARY 17, 2016	
Tender	Soumission

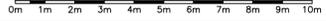
PWSSC Project Manager / Administrateur de projets TPSSC
 project number / no. du projet **R.069499.001**

drawing no. / no. du dessin **301-2**



SLAB-ON-GRADE PLAN

SCALE : 1:100



CONST. NORTH



KEY PLAN

SCALE - NTS

NOTE
 1. SEE DWG. 301-1 FOR GENERAL NOTES AND LEGEND.



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project
NEW G.O.C.B SAINT-LÉONARD NEW BRUNSWICK
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drawing
SLAB-ON-GRADE PLAN
 dessin

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PWSSC Project Manager / Administrateur de projets TPSSC
 project number / no. du projet
R.069499.001

drawing no. / no. du dessin
301-3

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NOTE
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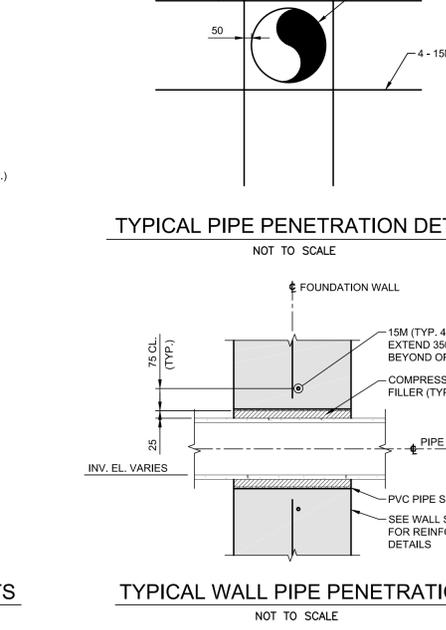
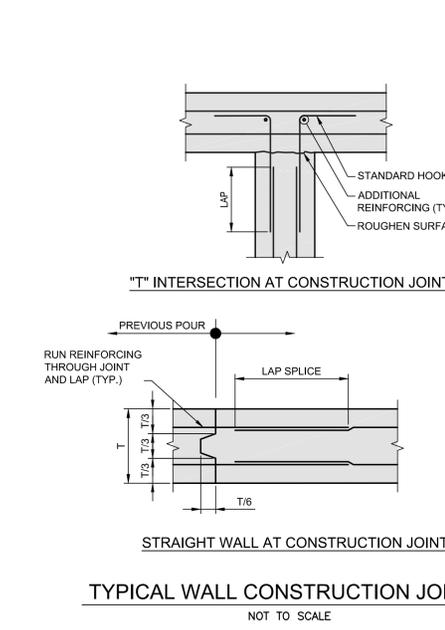
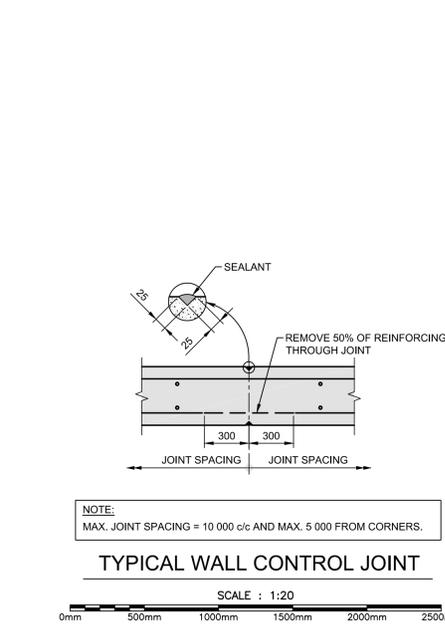
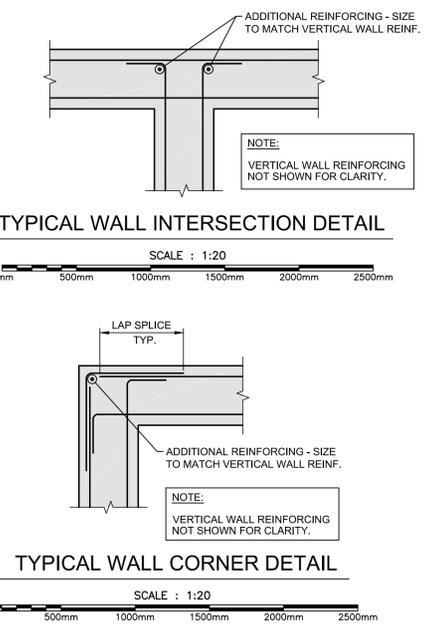
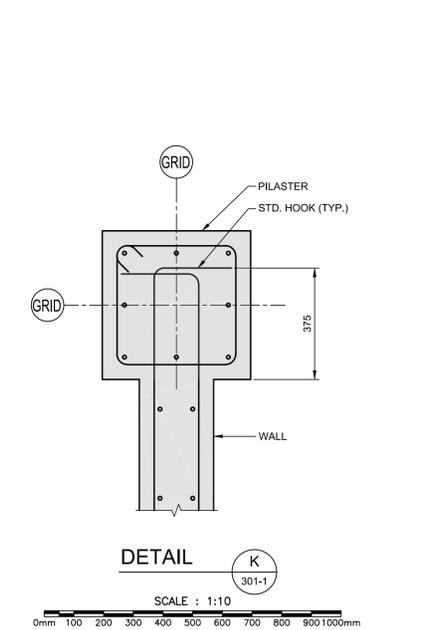
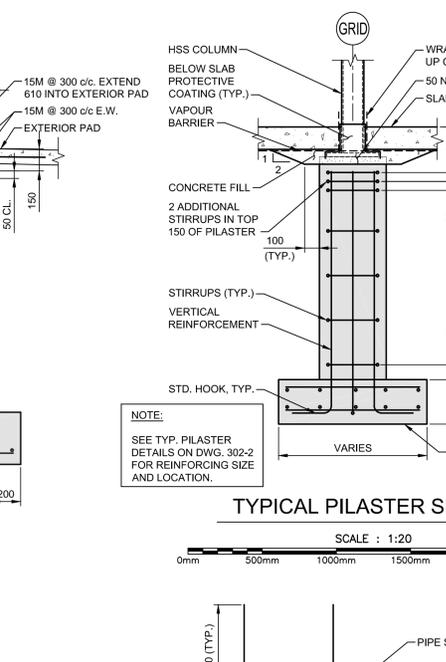
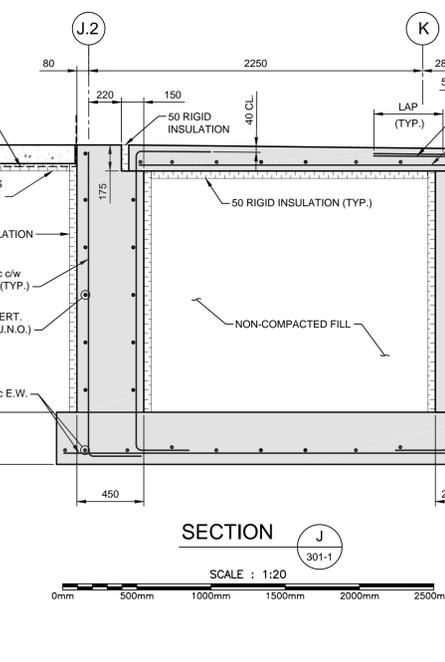
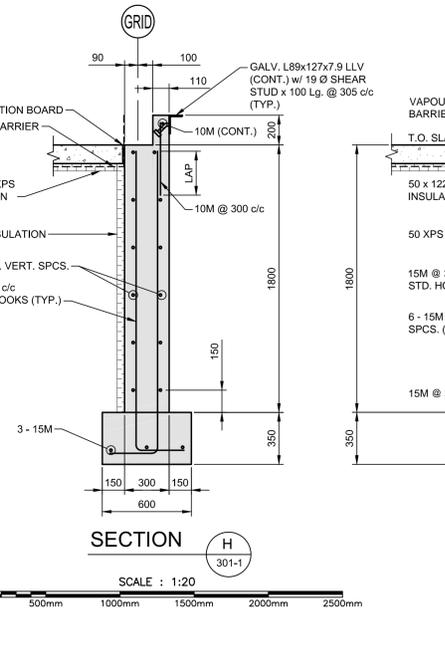
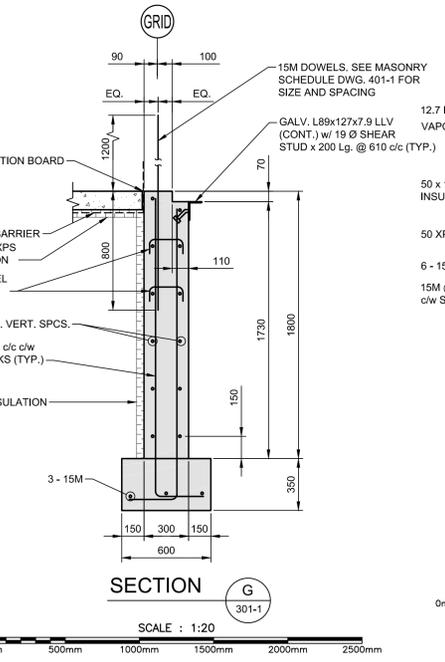
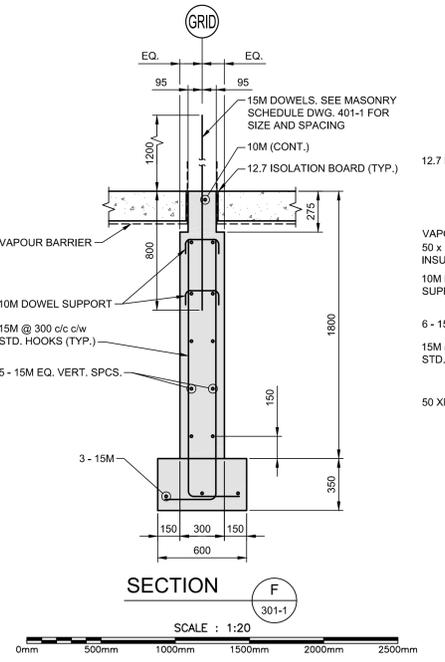
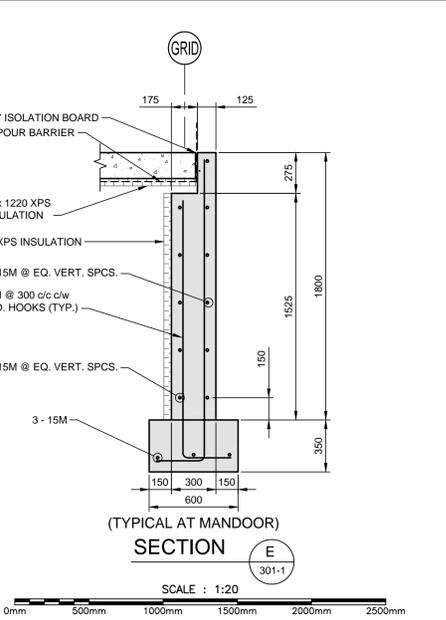
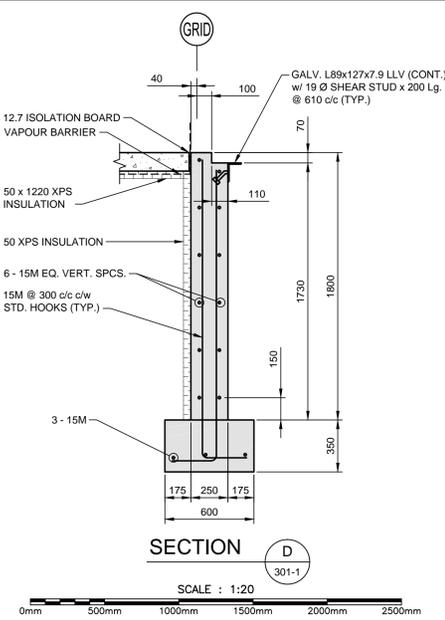
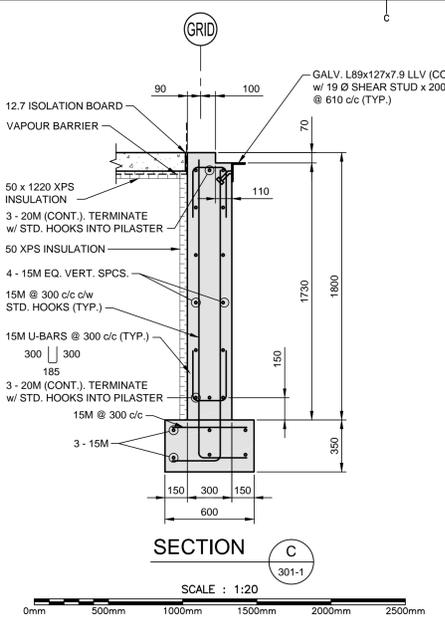
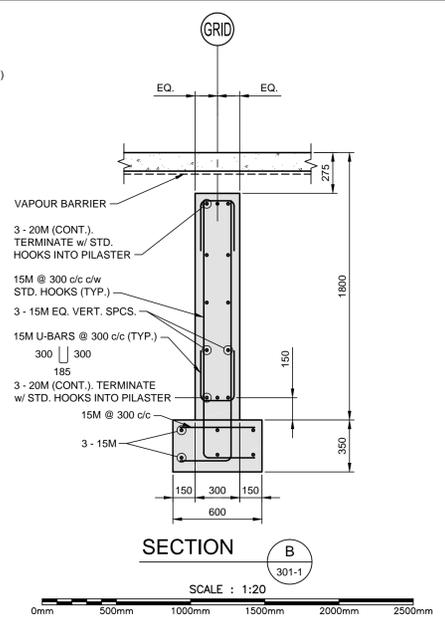
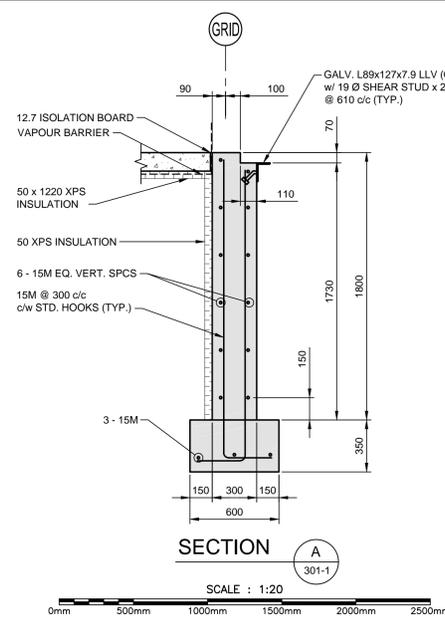
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revisions		date

project **NEW G.O.C.B SAINT-LEONARD NEW BRUNSWICK** project

drawing design

FOUNDATION DETAILS 1 OF 2

designed RDU	conçu
date JANUARY 29, 2016	
drawn ECM	dessiné
date JANUARY 29, 2016	
approved DAG	approuvé
date FEBRUARY 17, 2016	
Tender	Soumission
PWSSC Project Manager	Administrateur de projets TPSGC
project number R.069499.001	no. du projet
drawing no. 302-1	no. du dessin



NOTE
 1. SEE DRAWING 301-1 FOR GENERAL NOTES AND LEGEND.

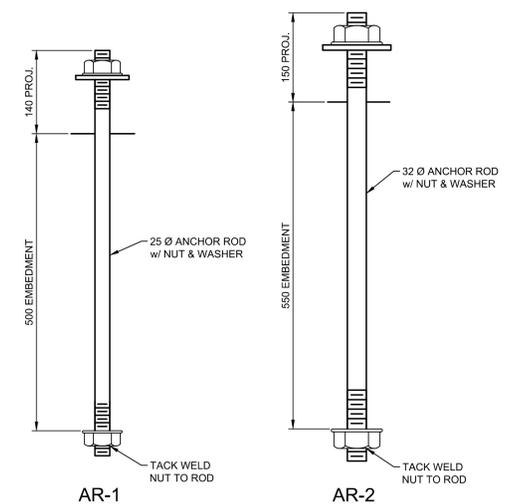


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project **NEW G.O.C.B SAINT-LÉONARD NEW BRUNSWICK** project

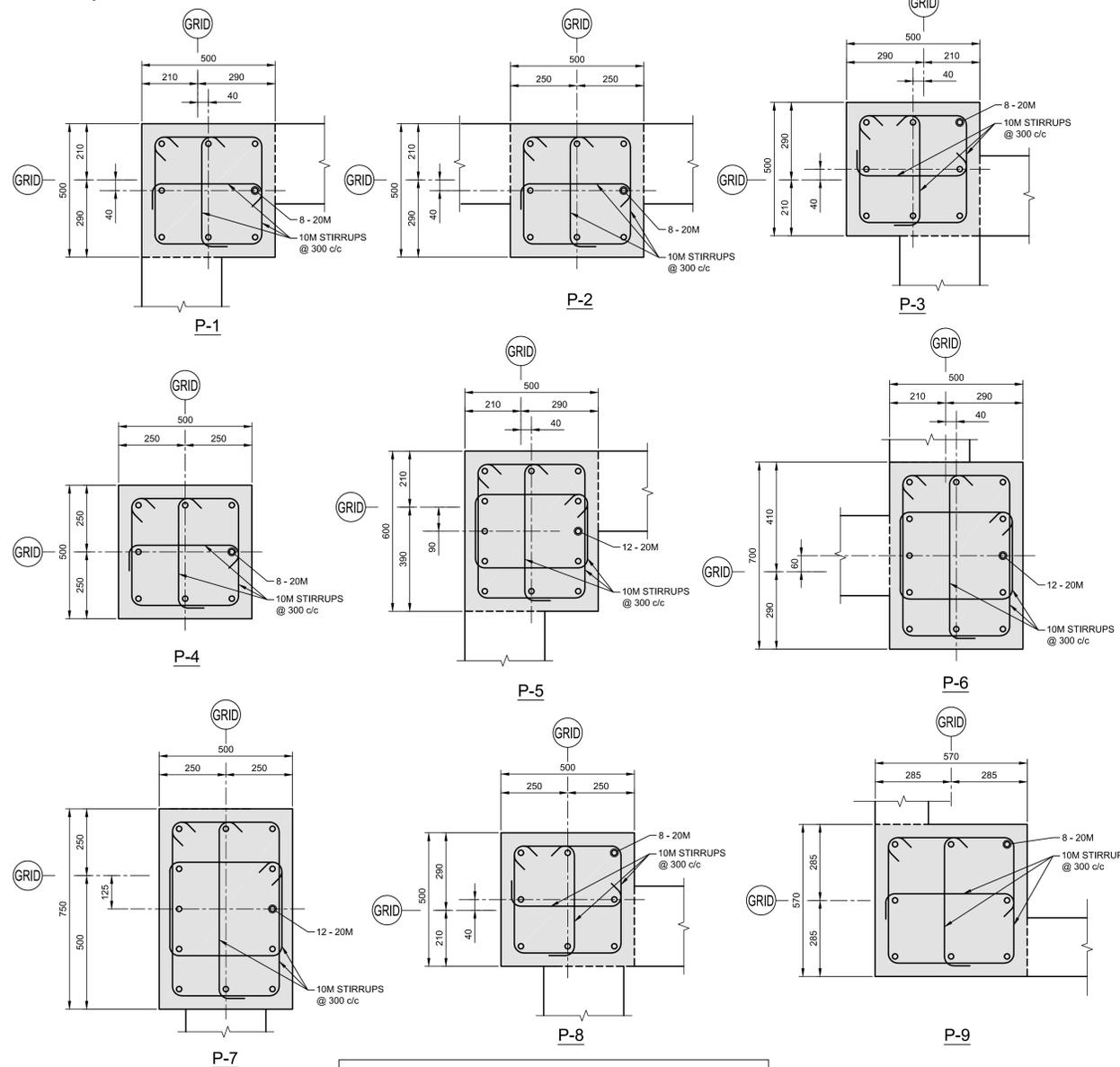
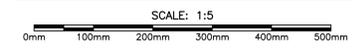
drawing **FOUNDATION DETAILS 2 OF 2** dessin

designed	RDU	conçu
date	JANUARY 29, 2016	
drawn	ECM	dessiné
date	JANUARY 29, 2016	
approved	DAG	approuvé
date	FEBRUARY 17, 2016	
Tender		Soumission
PWGSC Project Manager	Administrateur de projets TPSGC	
project number	R.069499.001	no. du projet
drawing no.	302-2	no. du dessin



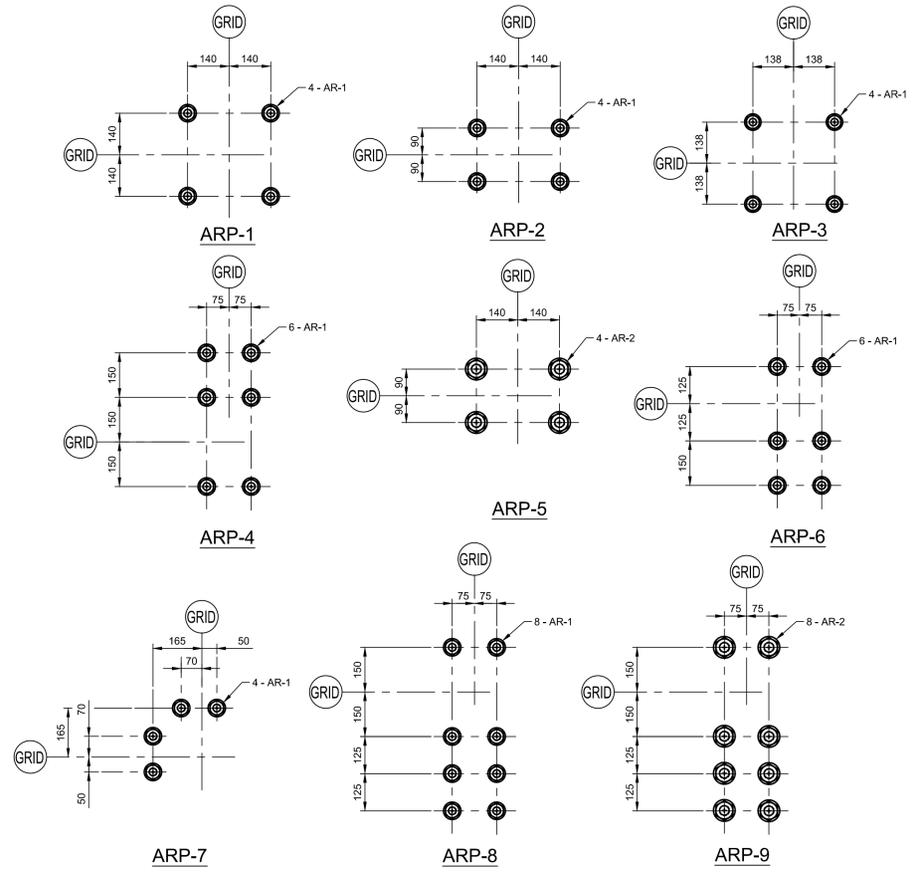
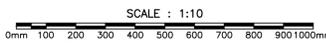
- NOTES:**
1. SET ANCHOR RODS ACCURATELY WITH A TEMPLATE.
 2. CLEAN RODS OF ALL GREASE, OIL & BOND INHIBITORS.
 3. ANCHOR RODS MUST BE PLACED INSTALLED AND SECURED PRIOR TO CONCRETE PLACEMENT.
 4. TIE TOP AND BOTTOM OF RODS TO REINFORCEMENT TO PREVENT MOVEMENT AND ROTATION.

TYPICAL ANCHOR ROD DETAILS



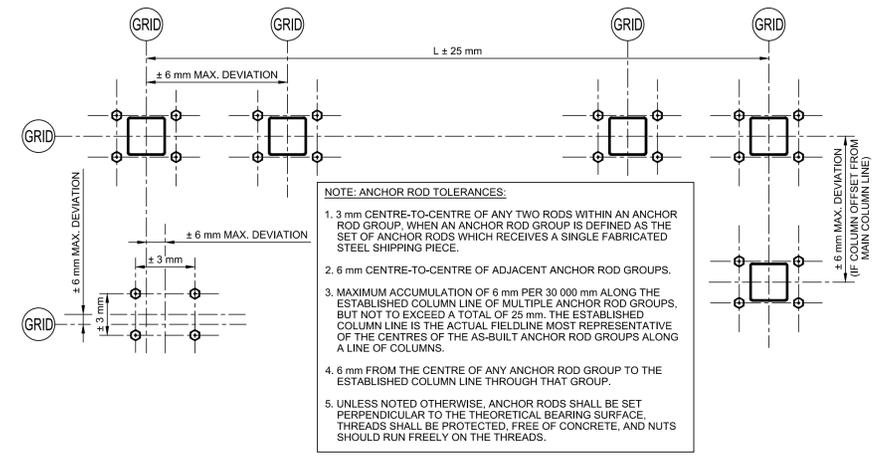
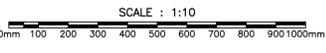
- PILASTER NOTES:**
1. EQUALLY SPACE LONGITUDINAL BARS SHOWN ALONG EACH FACE OF PILASTER (TYP.).
 2. ALTERNATE LOCATION OF PILASTER STIRRUP HOOKS.
 3. CONTINUE HORIZONTAL FOUNDATION WALL REINFORCING THROUGH PILASTERS.
 4. CONTINUE FOUNDATION WALL FOOTING HORIZONTAL REINFORCING THROUGH PILASTER FOOTINGS.

TYPICAL PILASTER DETAILS



NOTE: SEE DWG. 301-1 FOR ARP ORIENTATION

ANCHOR ROD PATTERNS (ARP)



- NOTE: ANCHOR ROD TOLERANCES:**
1. 3 mm CENTRE-TO-CENTRE OF ANY TWO RODS WITHIN AN ANCHOR ROD GROUP. WHEN AN ANCHOR ROD GROUP IS DEFINED AS THE SET OF ANCHOR RODS WHICH RECEIVES A SINGLE FABRICATED STEEL SHIPPING PIECE.
 2. 6 mm CENTRE-TO-CENTRE OF ADJACENT ANCHOR ROD GROUPS.
 3. MAXIMUM ACCUMULATION OF 6 mm PER 30 000 mm ALONG THE ESTABLISHED COLUMN LINE OF MULTIPLE ANCHOR ROD GROUPS, BUT NOT TO EXCEED A TOTAL OF 25 mm. THE ESTABLISHED COLUMN LINE IS THE ACTUAL FIELDLINE MOST REPRESENTATIVE OF THE CENTRES OF THE AS-BUILT ANCHOR ROD GROUPS ALONG A LINE OF COLUMNS.
 4. 6 mm FROM THE CENTRE OF ANY ANCHOR ROD GROUP TO THE ESTABLISHED COLUMN LINE THROUGH THAT GROUP.
 5. UNLESS NOTED OTHERWISE, ANCHOR RODS SHALL BE SET PERPENDICULAR TO THE THEORETICAL BEARING SURFACE. THREADS SHALL BE PROTECTED, FREE OF CONCRETE, AND NUTS SHOULD RUN FREELY ON THE THREADS.

TOLERANCES FOR ANCHOR ROD PLACEMENT

NOT TO SCALE

NOTE
 1. SEE DRAWING 301-1 FOR GENERAL NOTES AND LEGEND.

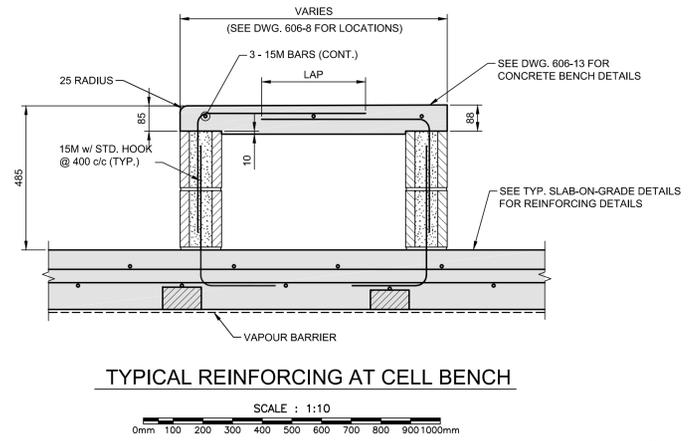
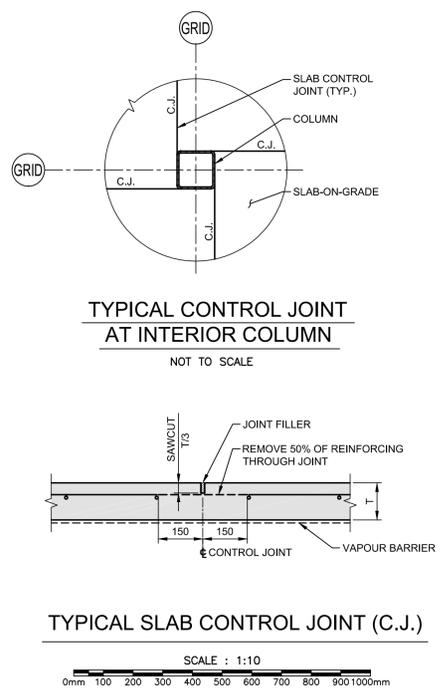
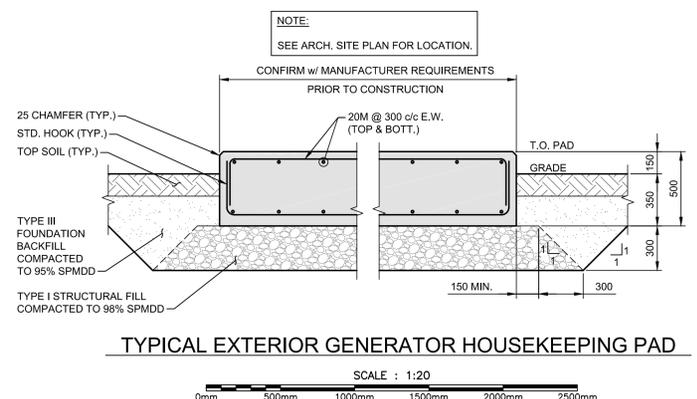
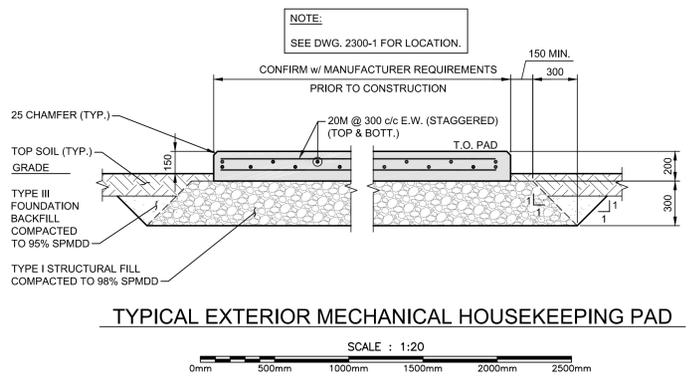
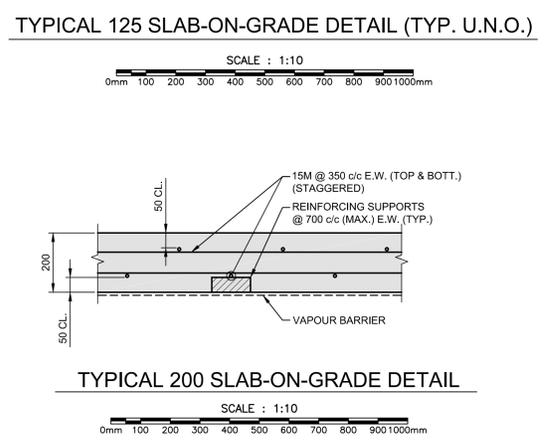
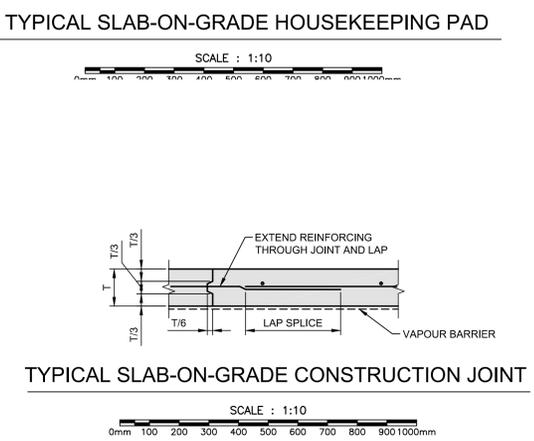
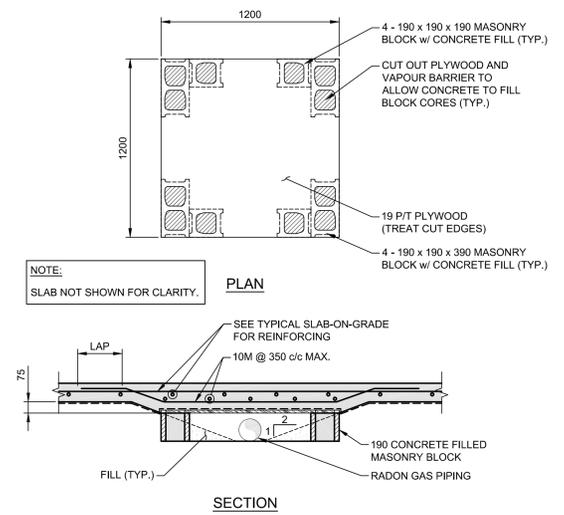
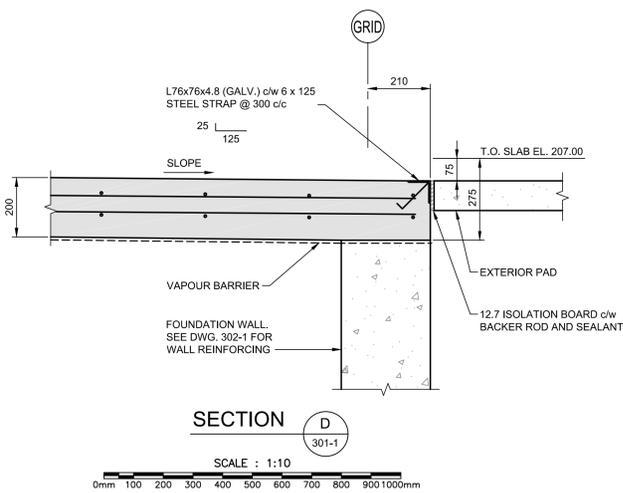
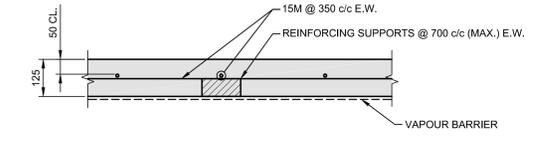
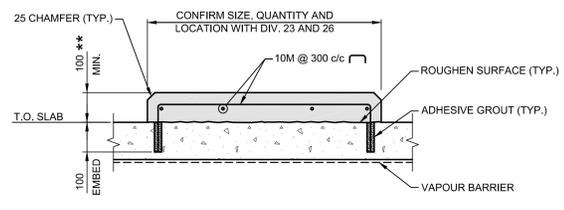
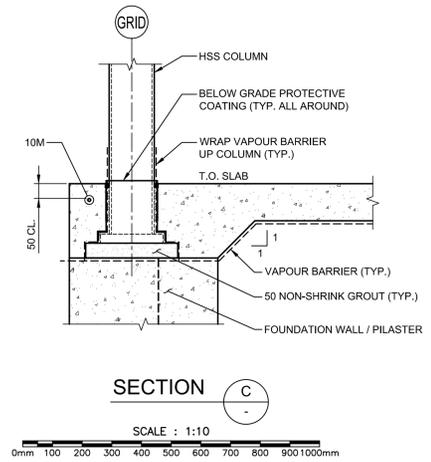
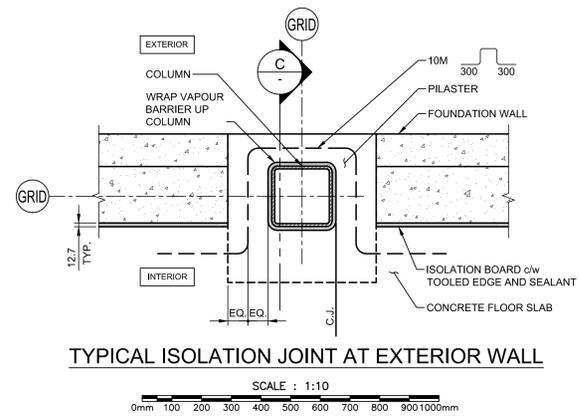
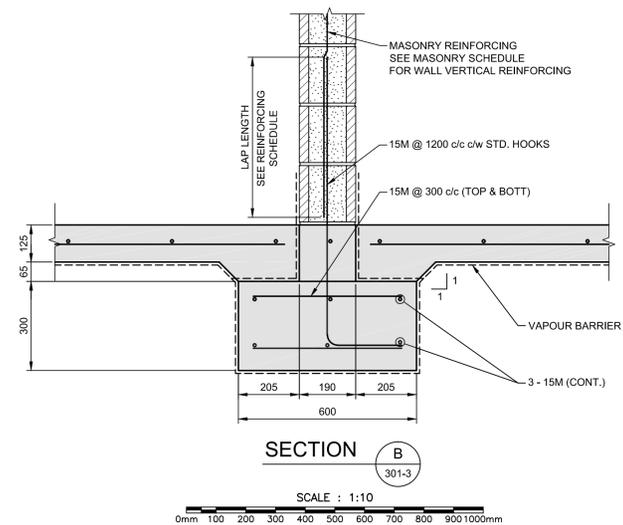
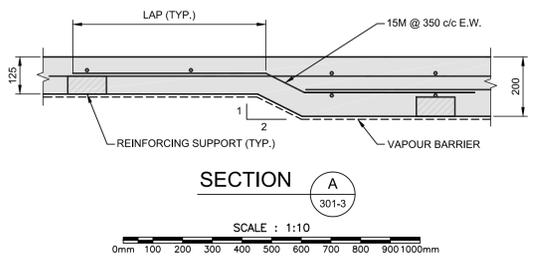


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project **NEW G.O.C.B SAINT-LÉONARD NEW BRUNSWICK** project

drawing **SLAB-ON-GRADE DETAILS** dessin

designed	RDJ	conçu
date	JANUARY 29, 2016	
drawn	ECM	dessiné
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date	FEBRUARY 17, 2016	
Tender		Soumission
PWGSC Project Manager	Administrateur de projets TPSGC	
project number	R.069499.001	no. du projet
drawing no.	302-3	no. du dessin





NOTE
 1. SEE DRAWING 301-1 FOR GENERAL NOTES AND LEGEND.



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revisions		date

project **NEW G.O.C.B SAINT-LÉONARD NEW BRUNSWICK** projet

drawing **SLAB-ON-DECK DETAILS** dessin

designed RDU conçu

date JANUARY 29, 2016

drawn ECM dessiné

date JANUARY 29, 2016

approved DAG approuvé

date FEBRUARY 17, 2016

Tender Soumission

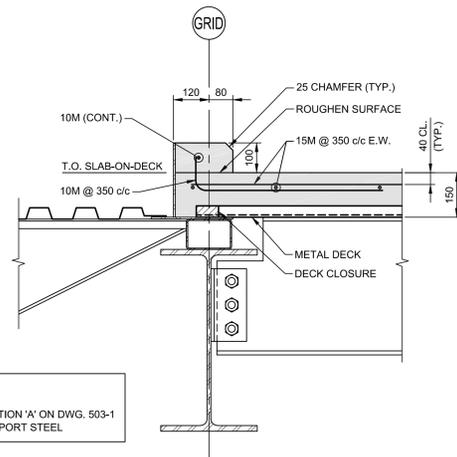
PWGC Project Manager Administrateur de projets TPSCC

project number no. du projet

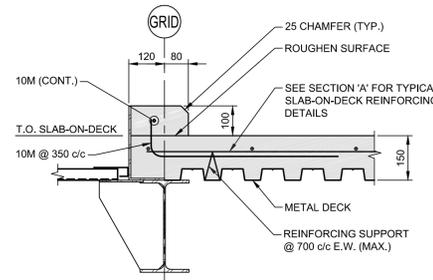
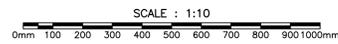
R.069499.001

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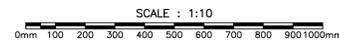
302-4



SECTION A
301-2

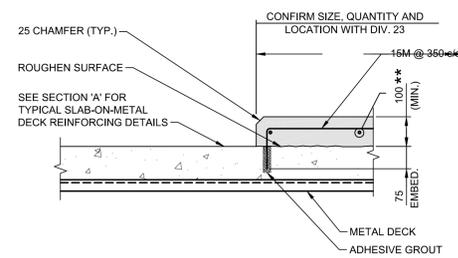


SECTION B
301-2

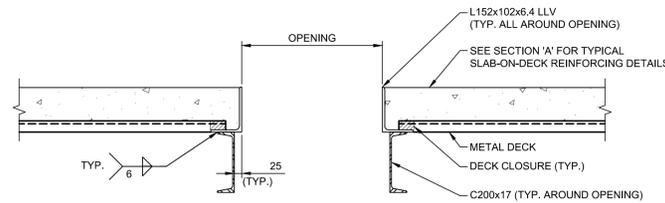
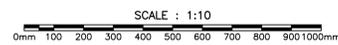


NOTE:
SEE SECTION 'A' ON DWG. 503-1 FOR SUPPORT STEEL

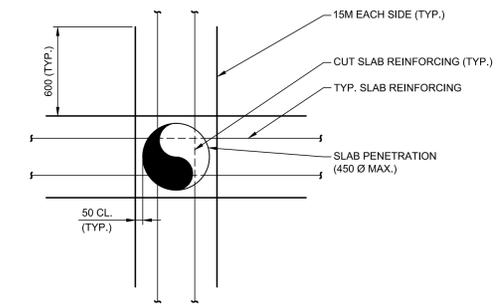
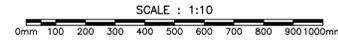
NOTE:
SEE SECTION 'B' ON DWG. 503-1 FOR SUPPORT STEEL



TYPICAL HOUSEKEEPING PAD

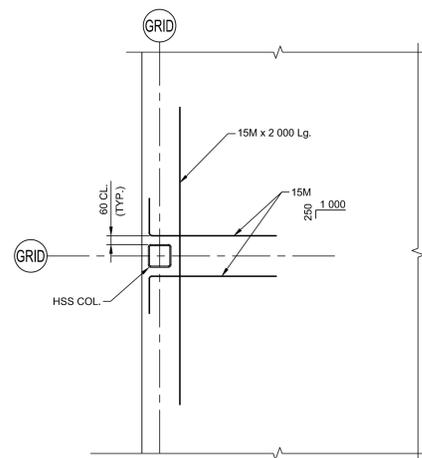


TYPICAL MECHANICAL PENETRATION DETAIL

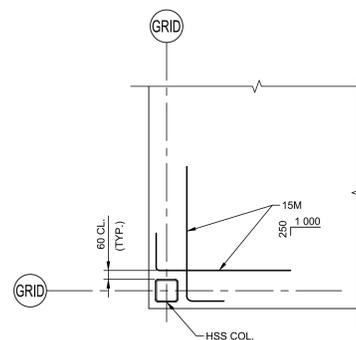


TYPICAL ADDITIONAL REINFORCING AT PIPE PENETRATION DETAIL

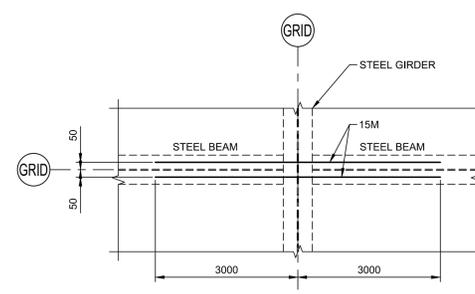
NOT TO SCALE



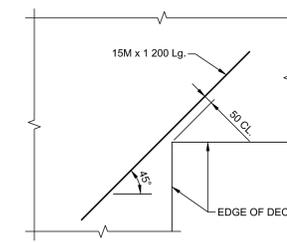
PERIMETER WITH COLUMN



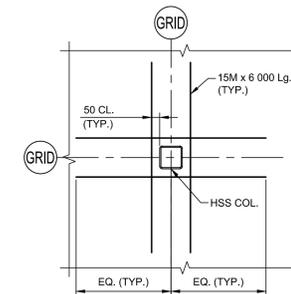
CORNER WITH COLUMN



BEAM AT GIRDER



RE-ENTRANT CORNER WITHOUT COLUMN



INTERIOR COLUMN

TYPICAL ADDITIONAL SLAB-ON-DECK REINFORCING



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exp. Project No. FRE-00214763-A5

BUILDINGS - EARTH & ENVIRONMENT
 ENERGY - INDUSTRIAL
 INFRASTRUCTURE - SUSTAINABILITY

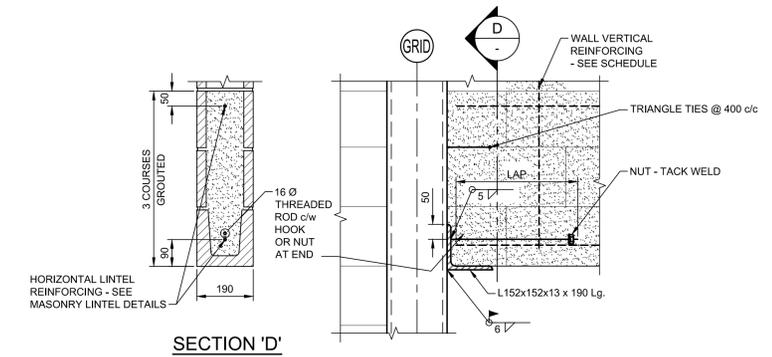
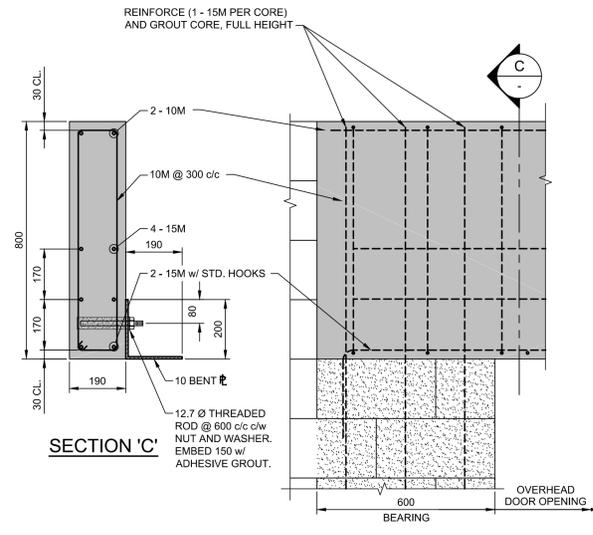
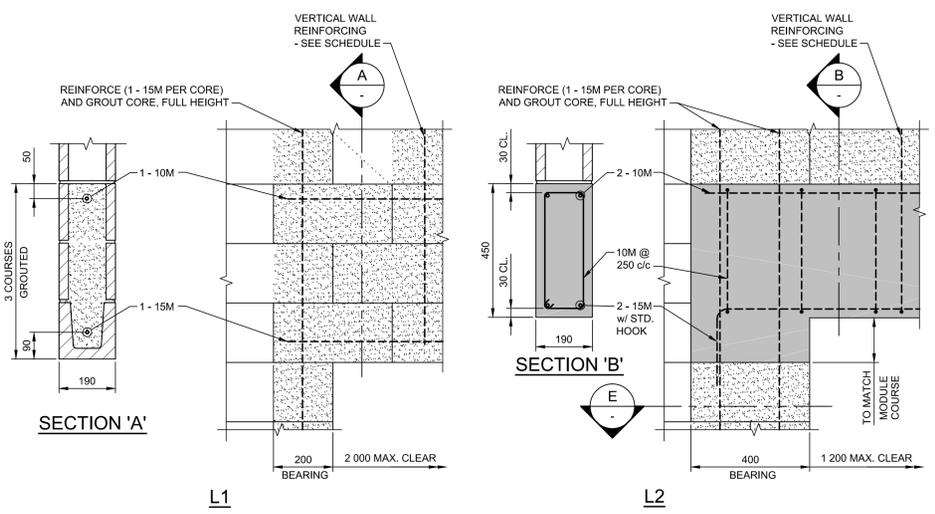
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BLOCK SIZE (mm)	MAXIMUM WALL HEIGHT	HORIZONTAL REINFORCING (U.N.O.)		VERTICAL REINFORCING		REMARKS
		TYPE	SPACING (mm)	BAR SIZE	SPACING (mm)	
140	2600	HEAVY DUTY LADDER	400	15M	1200	EXTERIOR WALL
190	3000	HEAVY DUTY LADDER	400	15M	1200	LOAD-BEARING WALL
190	3000	HEAVY DUTY LADDER	400	15M	1200	FULLY GROUTED - STD./HOLD. CELL
190	3600	HEAVY DUTY LADDER	400	15M	1200	EXTERIOR WALL
190	4300	HEAVY DUTY LADDER	200	15M	600	SHEARWALL

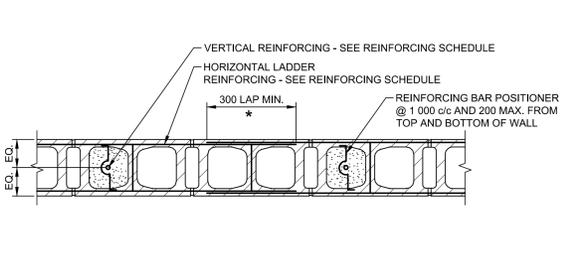
NOTES:

- REINFORCING LAPS SPLICES: 15M - 840mm.
- REINFORCING SHALL BE IN PLACE AND PROPERLY SECURED IN FINAL POSITION PRIOR TO PLACEMENT OF GROUT.
- PREFABRICATED HORIZONTAL LADDER REINFORCING CORNERS ARE TO BE AT ALL WALL CORNERS.
- UNLESS NOTED OTHERWISE, MASONRY WALLS SHALL BE REINFORCED AT:
 - DOOR AND WINDOW JAMBS EXTENDING THE FULL HEIGHT OF WALL
 - WALL CORNERS AND END OF WALLS
- ALL VERTICAL REINFORCING TO BE POSITIONED IN THE CENTRE OF WALL USING PURPOSE MADE POSITIONERS (U.N.O.).

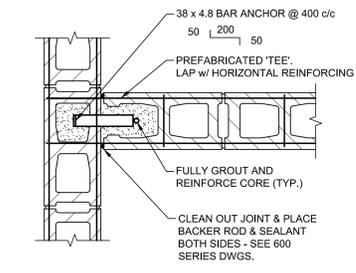


TYPICAL MASONRY LINTEL DETAILS
 SCALE : 1:10
 0mm 100 200 300 400 500 600 700 800 900 1000mm

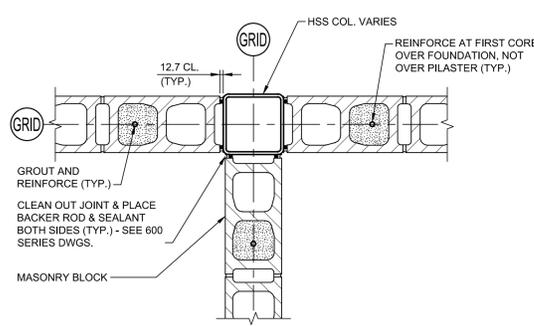
MASONRY LINTEL TO STEEL COLUMN
 SCALE : 1:10
 0mm 100 200 300 400 500 600 700 800 900 1000mm



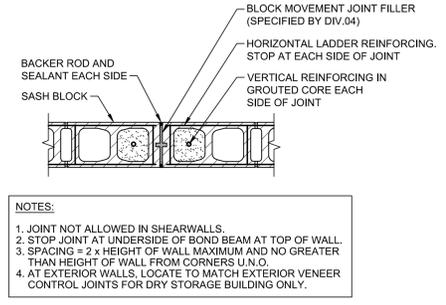
MASONRY WALL REINFORCING DETAIL
 SCALE : 1:10
 0mm 100 200 300 400 500 600 700 800 900 1000mm



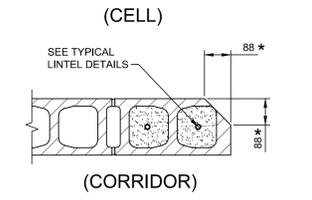
MASONRY WALL INTERSECTION DETAIL
 SCALE : 1:10
 0mm 100 200 300 400 500 600 700 800 900 1000mm



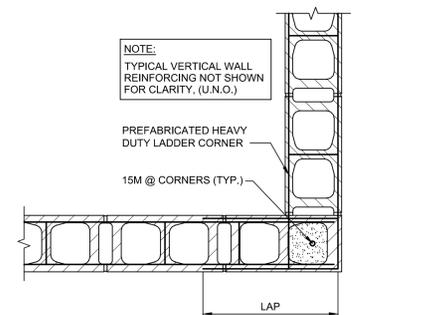
MASONRY TO STEEL COLUMN INTERSECTION (U.N.O.)
 SCALE : 1:10
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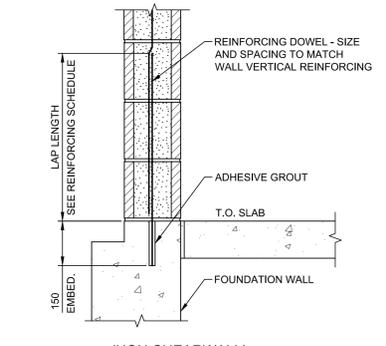
MASONRY WALL MOVEMENT JOINT DETAIL
 SCALE : 1:10
 0mm 100 200 300 400 500 600 700 800 900 1000mm



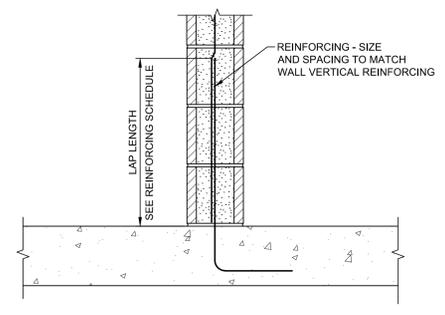
SECTION 'E'
 SCALE : 1:10
 0mm 100 200 300 400 500 600 700 800 900 1000mm



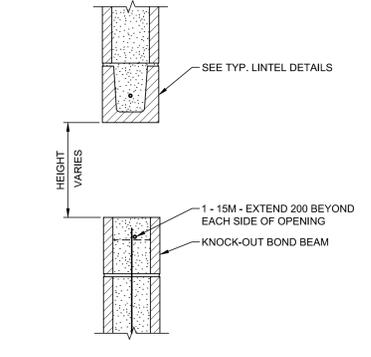
MASONRY CORNER REINFORCING DETAIL
 SCALE : 1:10
 0mm 100 200 300 400 500 600 700 800 900 1000mm



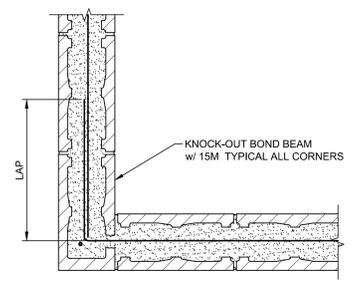
EXTERIOR MASONRY WALL BASE
 SCALE : 1:10
 0mm 100 200 300 400 500 600 700 800 900 1000mm



INTERIOR MASONRY PARTITION WALL BASE
 SCALE : 1:10
 0mm 100 200 300 400 500 600 700 800 900 1000mm



MASONRY WALL OPENING
 SCALE : 1:10
 0mm 100 200 300 400 500 600 700 800 900 1000mm



MASONRY BOND BEAM CORNER REINFORCING
 SCALE : 1:10
 0mm 100 200 300 400 500 600 700 800 900 1000mm

- MASONRY NOTES**
- ALL BLOCKS ARE TO BE H/A/15M (U.N.O.)
 - MORTAR = TYPE 'S' TO CSA A179-04.
 - GROUT = FINE GROUT, PROPORTION SPECIFICATION, IN ACCORDANCE TO CSA A179-04.
 - GROUTED AND REINFORCED BOND BEAMS ARE TO BE LOCATED AT THE TOP OF ALL MASONRY WALLS, COMPLETE WITH 15M REINFORCING (U.N.O.)
 - ALL JOINTS ARE TO BE FULLY MORTARED AND TOoled FOR FULL HEIGHT OF WALL (U.N.O.)
 - PENETRATIONS OR OPENINGS NOT DETAILED ARE TO BE APPROVED BY CONSULTANT PRIOR TO CONSTRUCTION.
 - * - DENOTES CONFIRM w/ ARCHITECTURAL PRIOR TO CONSTRUCTION.

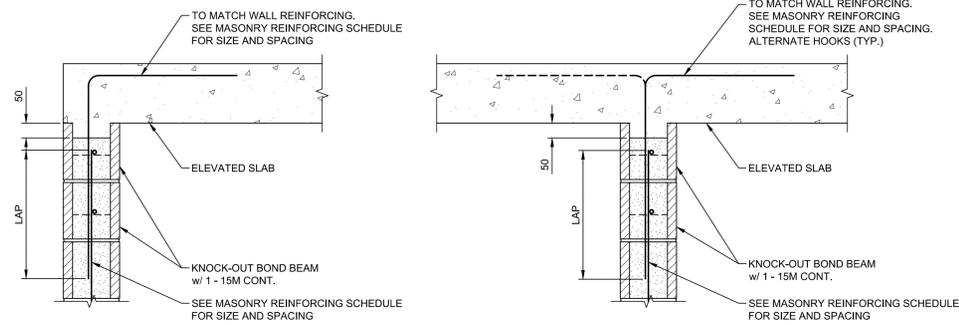


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revisions		date

project
NEW G.O.C.B SAINT-LÉONARD NEW BRUNSWICK
 project

drawing
TYPICAL MASONRY DETAILS 1 OF 2
 design

designed	RDU	conçu
date	JANUARY 29, 2016	date
drawn	ECM	dessiné
date	JANUARY 29, 2016	date
approved	DAG	approuvé
date	FEBRUARY 17, 2016	date
Tender		Soumission
PWSC Project Manager	Administrateur de projets TPSCG	
project number	R.069499.001	no. du projet
drawing no.	401-1	no. du dessin

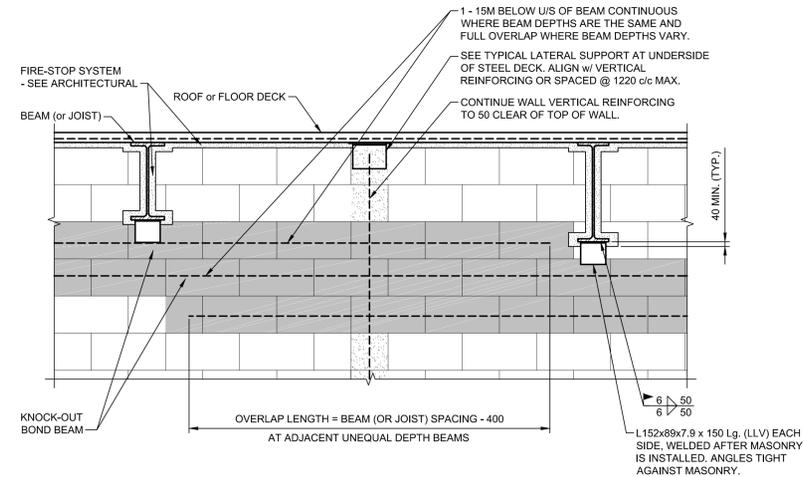


PERIMETER SUPPORT

INTERIOR SUPPORT

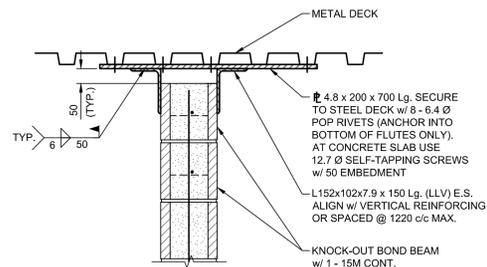
LOAD-BEARING MASONRY PARTITION AT ELEVATED CONCRETE SLAB

SCALE : 1:10



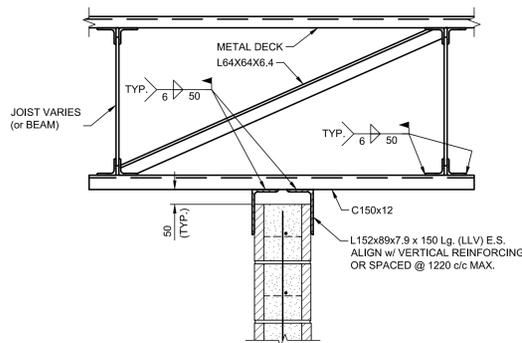
MASONRY WALL LATERAL SUPPORT AT WALLS PERPENDICULAR TO BEAMS/JOISTS (TYP. U.N.O.)

NOT TO SCALE



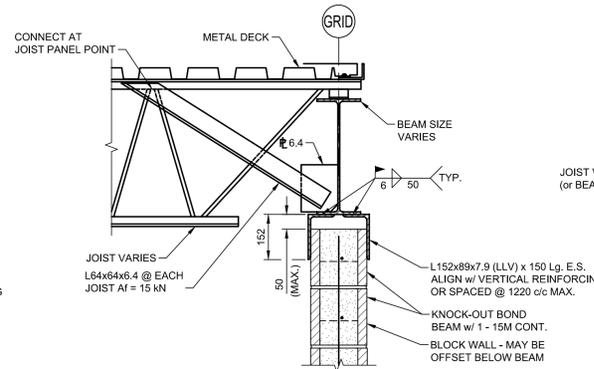
MASONRY PARTITION LATERAL SUPPORT AT UNDERSIDE OF STEEL DECK

SCALE : 1:10



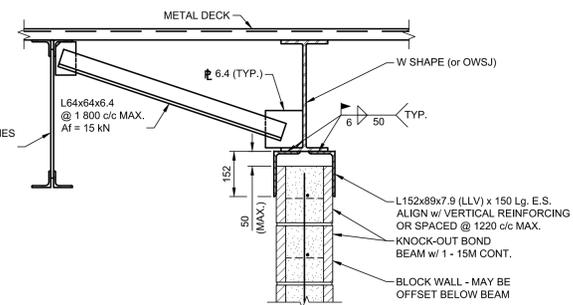
MASONRY PARTITION LATERAL SUPPORT BETWEEN AND BELOW JOISTS

SCALE : 1:10



MASONRY PARTITION LATERAL SUPPORT PERPENDICULAR TO OWSJ

SCALE : 1:10



MASONRY PARTITION LATERAL SUPPORT BELOW BEAM

SCALE : 1:10

NOTE:
 LOCATIONS OF # AND ANGLES VARY TO ACCOMMODATE LOCATION OF BLOCK vs. DECK.

- NOTES
- SEE DWG. 401-1 FOR GENERAL NOTES AND LEGEND.
 - REFER TO ARCHITECTURAL DRAWINGS FOR INFILL DETAILS AT TOPS OF WALLS.



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revisions		date

project

NEW G.O.C.B SAINT-LÉONARD NEW BRUNSWICK

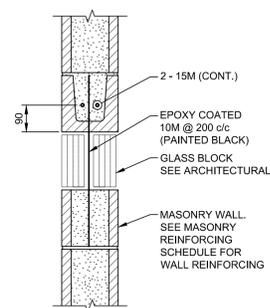
drawing

TYPICAL MASONRY DETAILS 2 OF 2

designed	RDU	conçu
date	JANUARY 29, 2016	
drawn	ECM	dessiné
date	JANUARY 29, 2016	
approved	DAG	approuvé
date	FEBRUARY 17, 2016	
Tender		Soumission
PWSSC Project Manager	Administrateur de projets TPSGC	
project number		no. du projet
	R.069499.001	
drawing no.		no. du dessin
	401-2	

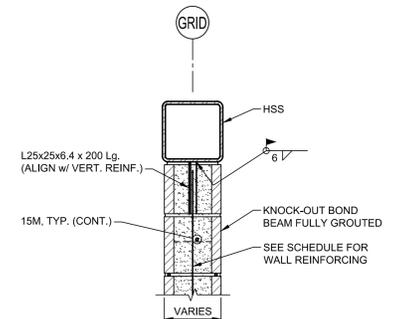
MASONRY WALL REINFORCING AT GLASS BLOCK

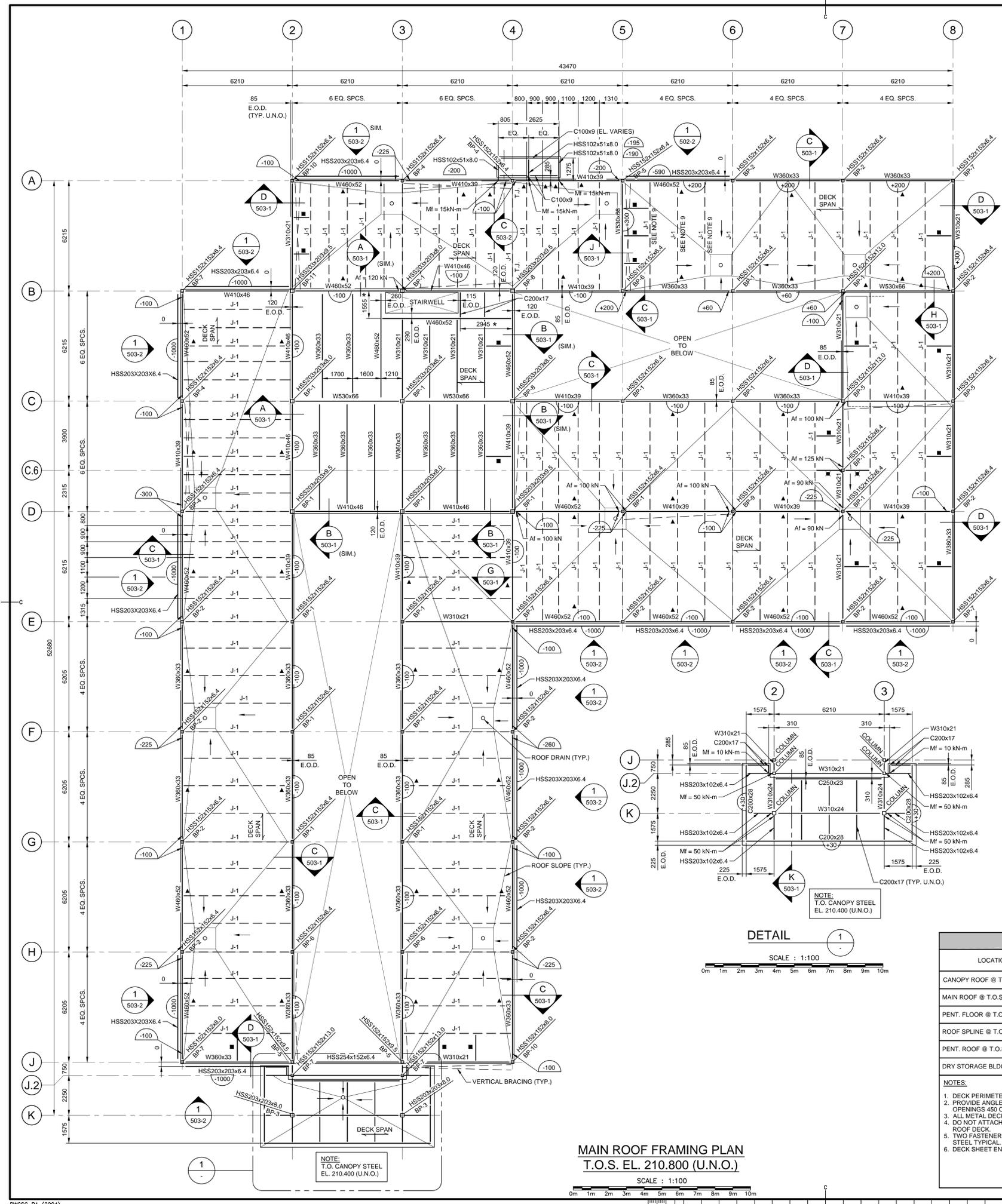
SCALE : 1:10



MASONRY BLOCK CONNECTION TO UNDERSIDE OF HORIZONTAL HSS (TYP. U.N.O.)

SCALE : 1:10





STRUCTURAL DESIGN CRITERIA

- ROOF LOADS:**
 - i) DEAD ROOF ASSEMBLY = 0.75 kPa
 - M & E ALLOWANCE = 0.25 kPa
 - (OWSJ & STRUCTURAL STEEL NOT INCLUDED)
 - TOTAL DEAD LOADS = 1.0 kPa
- MECHANICAL FLOOR:**
 - i) DEAD = 3.04 kPa
 - 100 HOUSEKEEPING PADS = 2.35 kPa
 - (OWSJ & STRUCTURAL STEEL NOT INCLUDED)
 - TOTAL DEAD LOADS = 5.39 kPa
 - ii) LIVE LOADS = 4.80 kPa (SPECIFIED)
 - MECHANICAL FLOOR = 4.80 kPa (SPECIFIED)
 - iii) LIVE LOAD = 1.0 kPa
- SUSPENDED SLAB:**
 - i) DEAD SELF WEIGHT OF CONCRETE
 - ii) LIVE LOAD = 1.0 kPa
- WIND:**
 - q 1/50 = 0.38 kPa
 - q 1/10 = 0.29 kPa
 - I = 1.0
 - Ce = BASED ON 'OPEN TERRAIN'
 - Cg1 = CATEGORY 2 (-0.45 TO 0.3)
 - Cp Cg2 = OVERALL BUILDING - PER FIG. I-7
 - = WALLS - PER FIG. I-8
 - = ROOF - PER FIG. I-9
 - ROOF WIND UPLIFT - SEE DIAGRAM (UNFACTORED)
- SEISMIC:**
 - Sa (0.2) = 0.403
 - Sa (0.5) = 0.271
 - Sa (1.0) = 0.131
 - Sa (2.0) = 0.046
 - PGA = 0.196
 - SITE CLASS = C
 - Fa = 1.0
 - Fv = 1.0
 - Mw = 1.0
 - R = 1.5
 - Ro = 1.3
 - Ie = 1.0
 - Ie-Fa.Sa(0.2) = 0.403
- CODES AND STANDARDS:**
 - NATIONAL BUILDING CODE OF CANADA 2010.
 - MASONRY DESIGN TO CSA S304-04.
 - STRUCTURAL STEEL DESIGN TO CAN/CSA S16-09.
 - BUILDING STRUCTURE IMPORTANCE CATEGORY = NORMAL

- ### GENERAL NOTES
- ALL DIMENSIONS ARE IN MILLIMETRES. ALL ELEVATIONS ARE IN METRES.
 - STRUCTURAL STEEL GRADES:
 - W-SHAPES - CSA G40.21 350W
 - HSS SHAPES - ASTM A500 GRADE C
 - ALL OTHERS - CSA G40.21 300W
 - SEE 502 SERIES DRAWINGS FOR STEEL ELEVATIONS.
 - SEE DWG 503-2 FOR TYPICAL BRACING DETAILS.
 - CONFIRM EDGE OF DECK (E.O.D.) WITH ARCHITECTURAL DRAWINGS.
 - ALL COLUMNS TO HAVE CAP #10.
 - COLUMN HEIGHT TO MATCH THE TOP OF STEEL OF THE BEAM FRAMING INTO THE COLUMN.
 - LEGEND AND GENERAL NOTES APPLY TO ALL SERIES 500 DRAWINGS.
 - CEMENT BOARD TO BE ATTACHED TO BOTTOM CHORD OF THESE JOISTS (SEE ARCH.).

LEGEND

Af	FACTORED AXIAL FORCE (TENSION OR COMPRESSION) (BASED ON $R_d = 1.3, R_o = 1.0, I = 1.0$ (U.N.O.))
B	FOR CONNECTION FORCES
c/c	CENTRE TO CENTRE
CL	CLEAR
CONT.	CONTINUOUS
E.O.D.	EDGE OF DECK
EQ. SPCS	EQUAL SPACES
EL	ELEVATION
F.P.	FLAT PLATE
GALV.	GALVANIZED
H.P.	HIGH POINT
HORIZ.	HORIZONTAL
Lg	LONG
LH	LONG DIMENSION HORIZONTAL
LLH	LONG LEG HORIZONTAL
MAX.	MAXIMUM
Mf	FACTORED MOMENT
N/A	NOT APPLICABLE
N.I.C.	NOT IN CONTRACT
OPNG.	OPENING
OWSJ	OPEN WEB STEEL JOIST
PLL	LIVE POINT LOAD
S.S.	STAINLESS STEEL
STD.	STANDARD
T	TOP OF MEMBER CONNECTION
Tf	FACTORED TENSILE FORCE (BASED ON $R_d = 1.3, R_o = 1.0, I = 1.0$ (U.N.O.)) FOR CONNECTION FORCES
T.J.	TIE JOIST
T.O.	TOP OF
TYP.	TYPICAL
U.N.O.	UNLESS NOTED OTHERWISE
u/s	UNDERSIDE
w	WITH
W.P.	WORK POINT
VERT.	VERTICAL
- - -	VERTICAL CROSS BRACING LOCATION
- - -	VERTICAL CHEVRON BRACING LOCATION
- - -	VERTICAL SINGLE STRUT BRACING LOCATION
- - -	VERTICAL 'K' BRACING LOCATION
*	CONFIRM DIMENSION w/ ARCHITECTURAL PLANS PRIOR TO CONSTRUCTION.
**	CONFIRM DIMENSION w/ REVIEWED SHOP DRAWING PRIOR TO CONSTRUCTION.
-	TYPE 1 BRACING
▲	TYPE 2 BRACING
■	TYPE 3 BRACING
RD	ROOF DRAIN OR RAIN WATER LEADER. LOCATION AND SIZE FROM MECH. DRAWINGS.
-100	LOCAL ELEVATION DIFFERENCE FROM TYP. T.O.S. ELEVATION FOR STEEL FRAMING (MILLIMETRES). ADJUST T.O.S. STEEL ELEVATION FOR SUPPORTED FRAMING TO SUIT.

JOIST SCHEDULE

MARK	DEPTH (mm)	LIVE LOAD DEFLECTION LIMIT	REMARKS
J-1	500	SPAN/360	100 SHOE DEPTH
J-2	500	SPAN/360	150 SHOE DEPTH, CRANKED
J-3	500	SPAN/360	150 SHOE DEPTH
J-4	600	SPAN/360	100 SHOE DEPTH (DRY STORAGE BUILDING)

- ### NOTES:
- SPECIFIED WIND FORCES ARE GROSS VALUES. NEGATIVE INDICATES UP-LIFT. USE DEAD LOAD = 0.9 kPa WITH WIND LOAD COMBINATION.
 - SEE PLAN FOR THE JOIST LOCATIONS.
 - JOIST BRIDGING DESIGN BY JOIST MANUFACTURER.
 - ATTACHMENTS FOR MECHANICAL, ELECTRICAL AND OTHER SERVICES SHALL BE MADE BY USING APPROVED CLAMPING DEVICES OR U-BOLT-TYPE CONNECTORS APPROVED BY OWSJ SUPPLIERS IN WRITING. NO DRILLING OR CUTTING OF JOISTS IS PERMITTED.
 - SEE DRAWING 501-3 FOR ROOF WIND UPLIFT DIAGRAM.
 - JOIST SHOE DEPTHS ARE TO BE CONFIRMED WITH APPROVED SHOP DRAWINGS PRIOR TO STEEL FABRICATION.

METAL DECK SCHEDULE

LOCATION	TYPE	SIZE	FASTENING PATTERN (U.N.O.)	SIDE LAP CONNECTIONS	NOTES
CANOPY ROOF @ T.O.S. EL. 210.400	-	0.91	914 / 7	#10 SCREWS @ 300 c/c	
MAIN ROOF @ T.O.S. EL. 210.800	-	0.91	914 / 9	#10 SCREWS @ 150 c/c	
PENT. FLOOR @ T.O.S. EL. 212.950	COMPOSITE	0.91	914 / 7	#10 SCREWS @ 300 c/c	
ROOF SPLINE @ T.O.S. EL. 212.950	-	1.21	914 / 9	#10 SCREWS @ 150 c/c	
PENT. ROOF @ T.O.S. EL. 215.100	-	0.91	914 / 7	#10 SCREWS @ 230 c/c	
DRY STORAGE BLDG. ROOF	-	0.91	914 / 7	#10 SCREWS @ 150 c/c	19 Ø PUDDLE WELD @ 150 c/c (PERIMETER)

NOTES:

- DECK PERIMETER OF EACH ROOF LEVEL TO BE FASTENED @ 150 c/c MAX.
- PROVIDE ANGLE CLOSURE AT PERIMETER OF BUILDING AND ALL OPENINGS 450 OR MORE.
- ALL METAL DECK TO BE THREE SPAN CONTINUOUS MINIMUM.
- DO NOT ATTACH MECHANICAL, ELECTRICAL OR OTHER SERVICES TO ROOF DECK.
- TWO FASTENERS AT DECK OVERLAP AT SUPPORTING STEEL TYPICAL.
- DECK SHEET END OVERLAP TO BE 100 MIN. TYPICAL.

DECK SHEET WIDTH IN MILLIMETRES / NO. OF CONNECTIONS OVER SHEET WIDTH

FASTENERS AT DECK OVERLAP

FASTENING PATTERN AT SUPPORT

METAL DECK SUPPORT PATTERN DETAIL

Public Works and Government Services
Travaux Publics et Services gouvernementaux
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exp Project No. FRE-00214763-A5

BUILDINGS - EARTH & ENVIRONMENT
INFRASTRUCTURE - INDUSTRIAL
INFRASTRUCTURE - SUSTAINABILITY

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CONST. NORTH

KEY PLAN

SCALE - NTS

REGISTERED PROFESSIONAL ENGINEER
#M7238
Ryan D. Johnson
2018-02-17

0 RELEASED FOR CONSTRUCTION 01/29/2016

NEW G.O.C.B SAINT-LEONARD NEW BRUNSWICK

ROOF FRAMING AND PENTHOUSE FLOOR FRAMING PLAN AND SCHEDULES

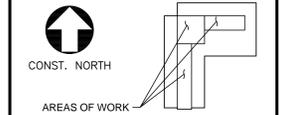
designed RDU
date JANUARY 29, 2016
drawn ECM
date JANUARY 29, 2016

approved DAG
date FEBRUARY 17, 2016
Tender Soumission

PWSSC Project Manager Administrateur de projets TPSSC
project number no. du projet
R.069499.001

drawing no. no. du dessin
501-1

E-DRM/GDD-E: 527793



KEY PLAN

SCALE - NTS

NOTES

- SEE DRAWING 501-1 FOR GENERAL NOTES AND LEGEND.
- ALL MOMENT CONNECTION FORCES (MI) SHOWN ARE PLUS OR MINUS (+/-).



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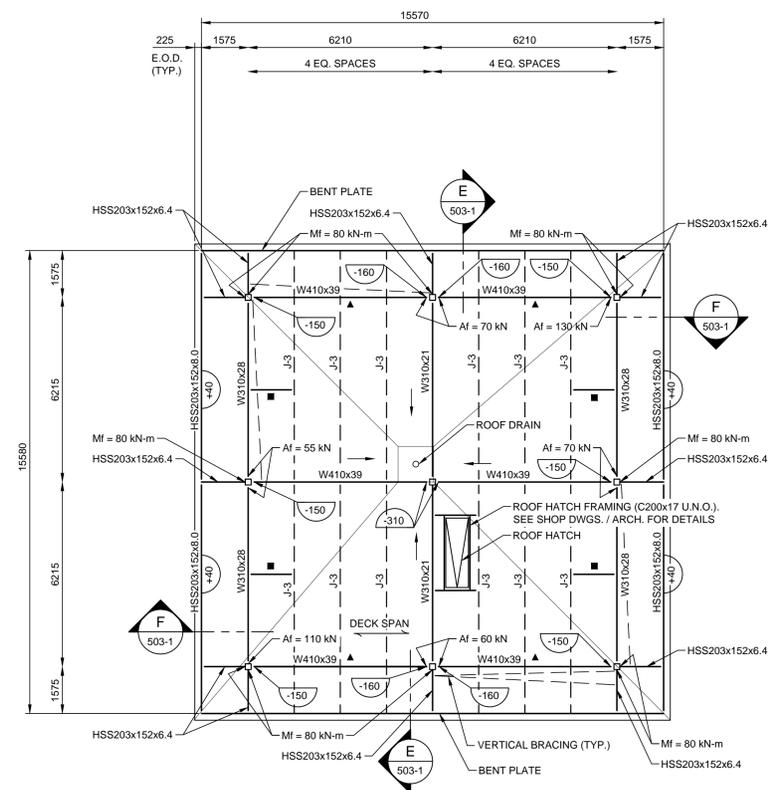
project
NEW G.O.C.B SAINT-LÉONARD NEW BRUNSWICK
project

drawing
ROOF FRAMING PLANS
dessin

designed RDU	conçu
date JANUARY 29, 2016	
drawn ECM	dessiné
date JANUARY 29, 2016	
approved DAG	approuvé
date FEBRUARY 17, 2016	
Tender	Soumission

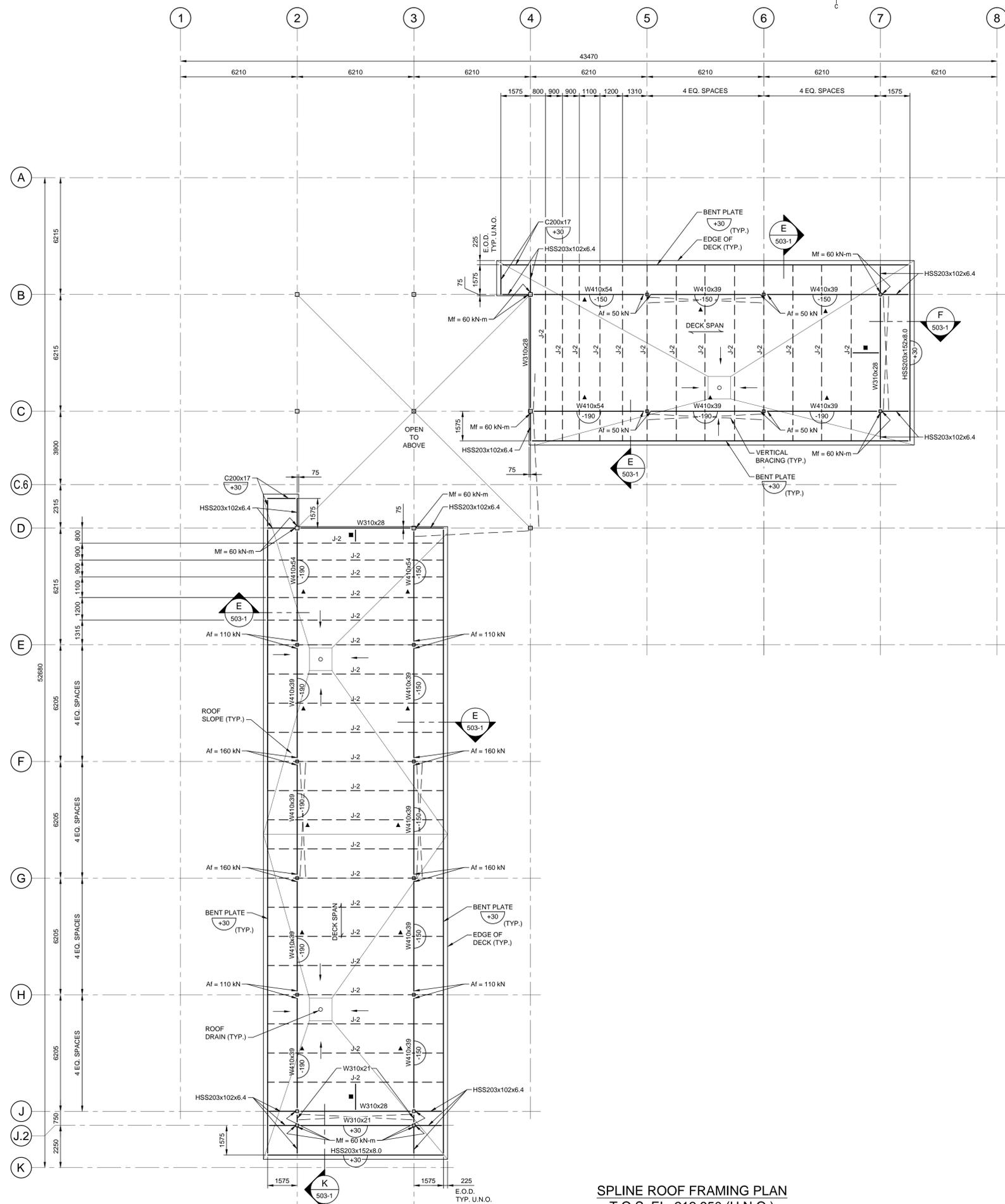
PWGS Project Manager Administrateur de projets TP/SGC
project number no. du projet
R.069499.001

drawing no. no. du dessin
501-2



MECHANICAL PENTHOUSE ROOF FRAMING PLAN
T.O.S. EL. 215.100 (U.N.O.)

SCALE : 1:100
0m 1m 2m 3m 4m 5m 6m 7m 8m 9m 10m



SPLINE ROOF FRAMING PLAN
T.O.S. EL. 212.950 (U.N.O.)

SCALE : 1:100
0m 1m 2m 3m 4m 5m 6m 7m 8m 9m 10m



KEY PLAN
 SCALE - NTS

- NOTE**
- SEE DRAWING 501-1 FOR GENERAL NOTES AND LEGEND.
 - SPECIFIED WIND FORCES ARE UP-LIFT GROSS VALUES. USE DEAD LOAD = 0.90 kPa WITH WIND LOAD COMBINATION.



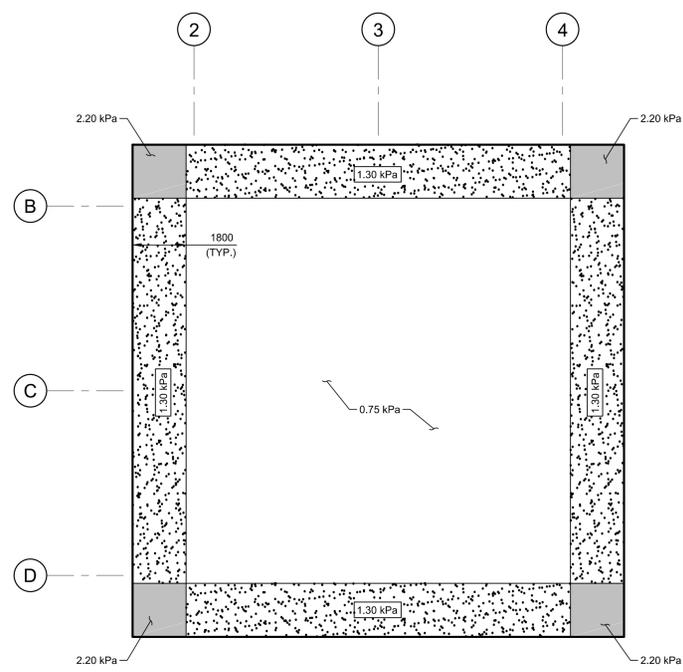
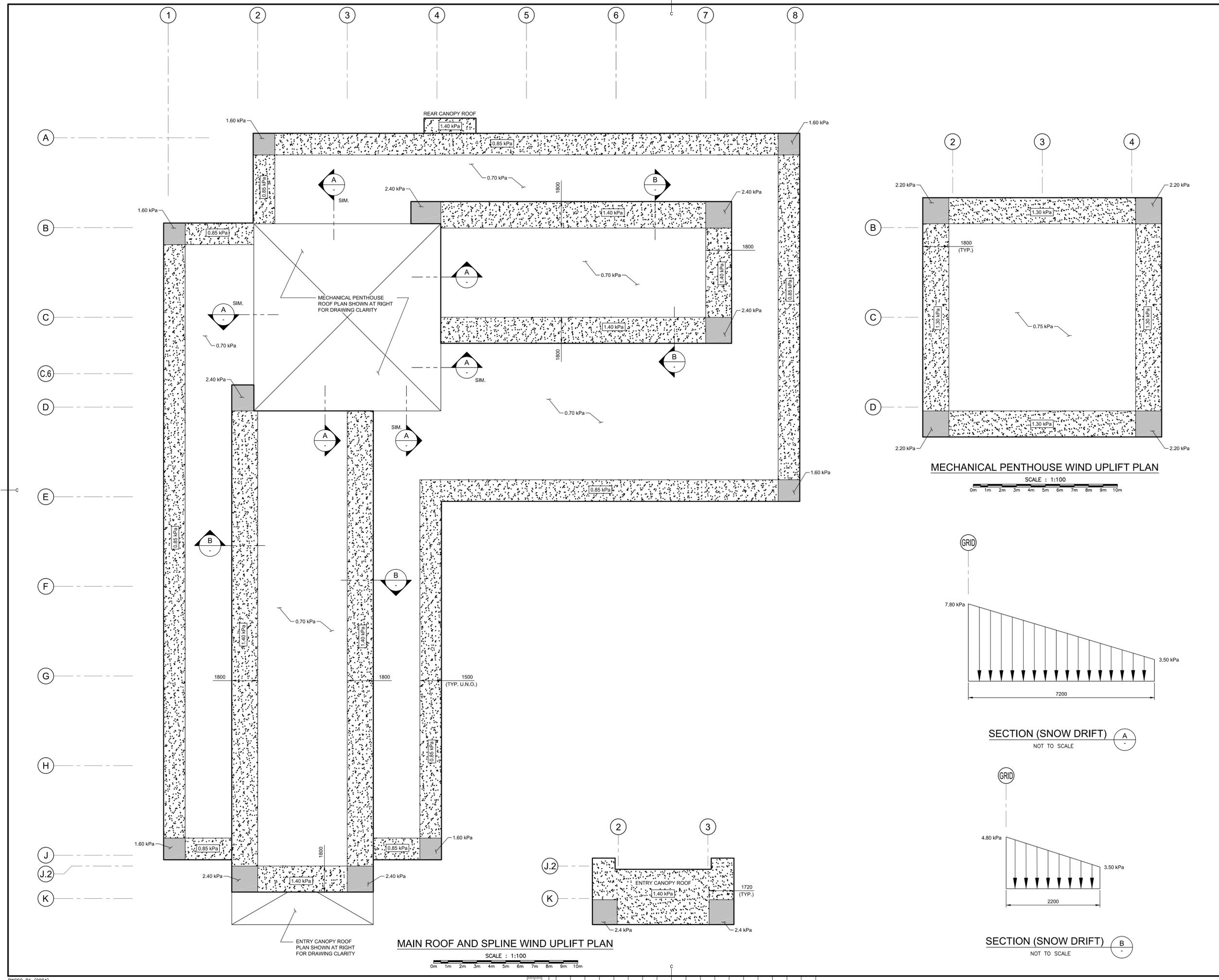
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project **NEW G.O.C.B SAINT-LÉONARD NEW BRUNSWICK** project

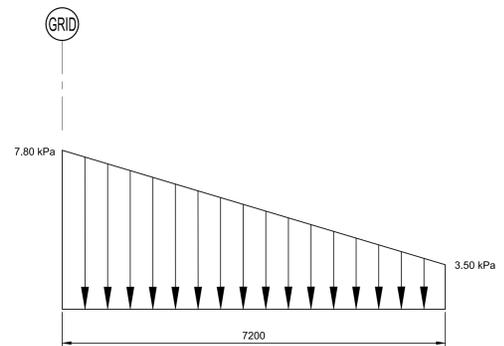
drawing **WIND UPLIFT AND SNOW DRIFTING DIAGRAM** dessin

designed RDU	conçu
date JANUARY 29, 2016	
drawn ECM	dessiné
date JANUARY 29, 2016	
approved DAG	approuvé
date FEBRUARY 17, 2016	
Tender	Soumission

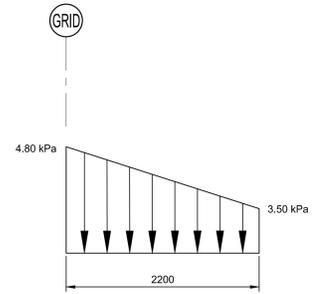
PWGC Project Manager	Administrateur de projets TP/GC
project number	no. du projet
R.069499.001	
drawing no.	no. du dessin
501-3	



MECHANICAL PENTHOUSE WIND UPLIFT PLAN
 SCALE : 1:100



SECTION (SNOW DRIFT) A-A
 NOT TO SCALE



SECTION (SNOW DRIFT) B-B
 NOT TO SCALE

MAIN ROOF AND SPLINE WIND UPLIFT PLAN
 SCALE : 1:100

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NOTE
 1. SEE DRAWING 501-1 FOR GENERAL NOTES AND LEGEND.



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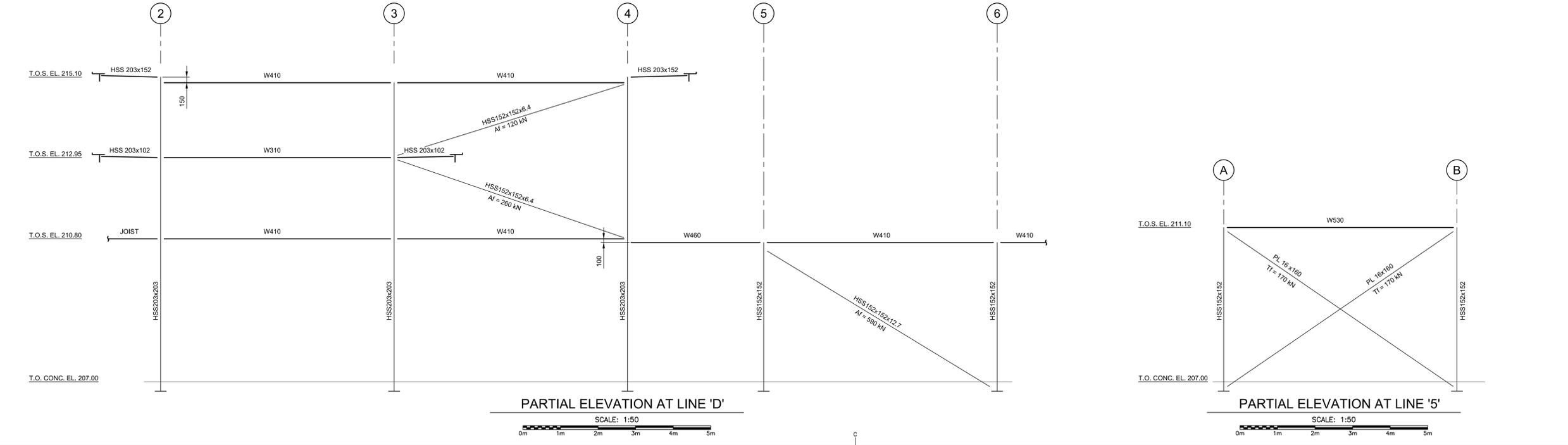
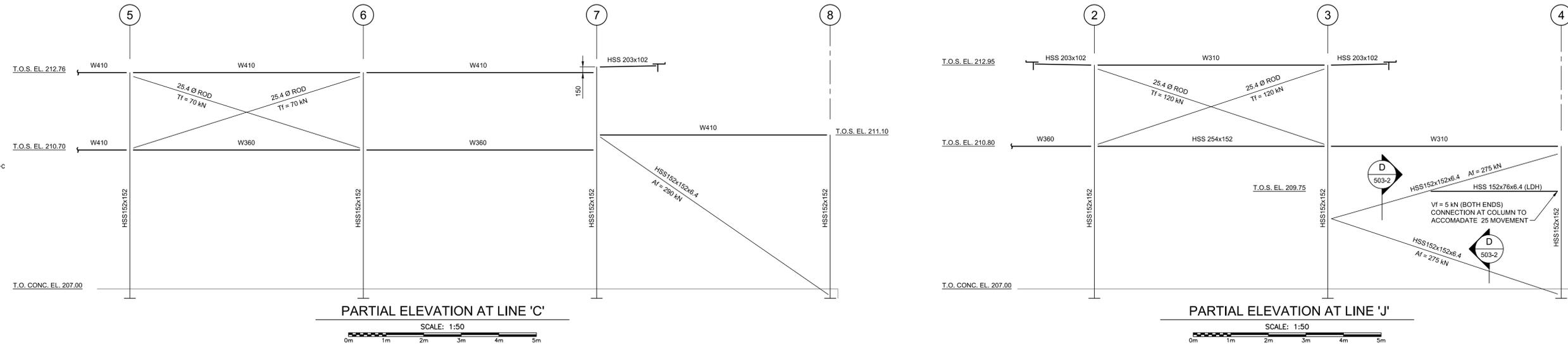
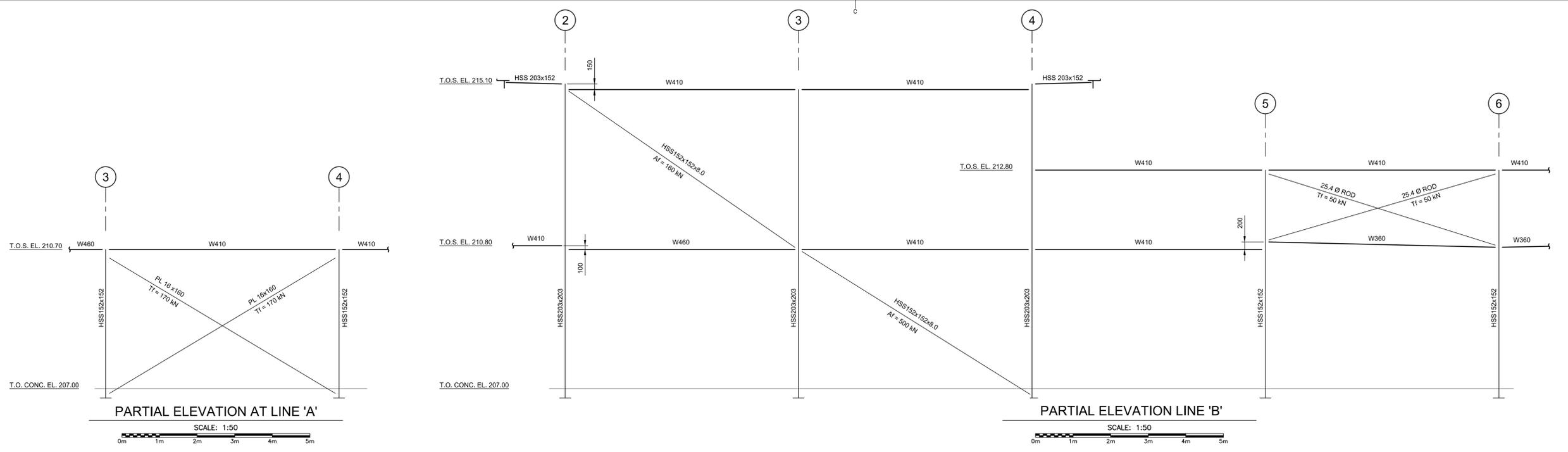
drawing **STEEL FRAMING ELEVATIONS SHEET 1 OF 2** dessin

designed	RDU	conçu
date	JANUARY 29, 2016	
drawn	ECM	dessiné
date	JANUARY 29, 2016	
approved	DAG	approuvé
date	FEBRUARY 17, 2016	
Tender		Soumission

PWGC Project Manager / Administrateur de projets TP/GC

project number **R.069499.001** no. du projet

drawing no. **502-1** no. du dessin





NOTE
 1. SEE DRAWING 501-1 FOR GENERAL NOTES AND LEGEND.

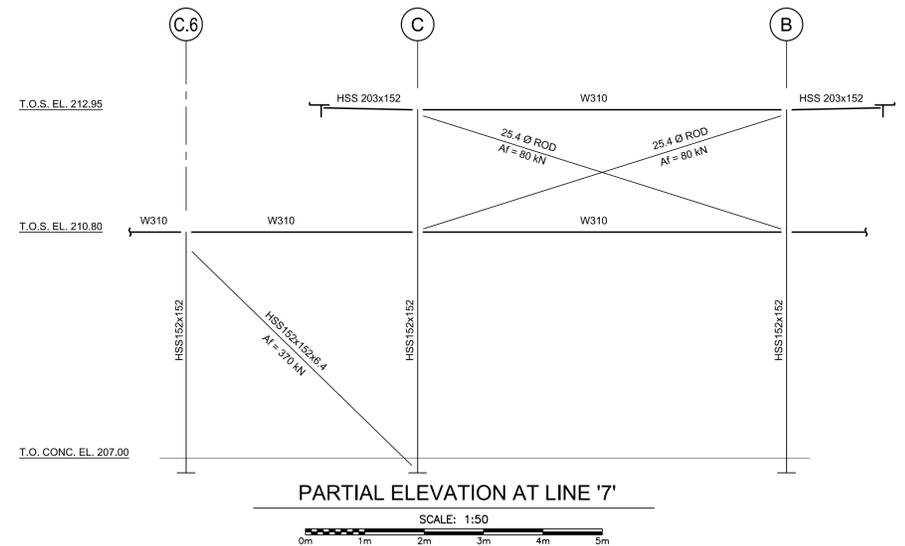
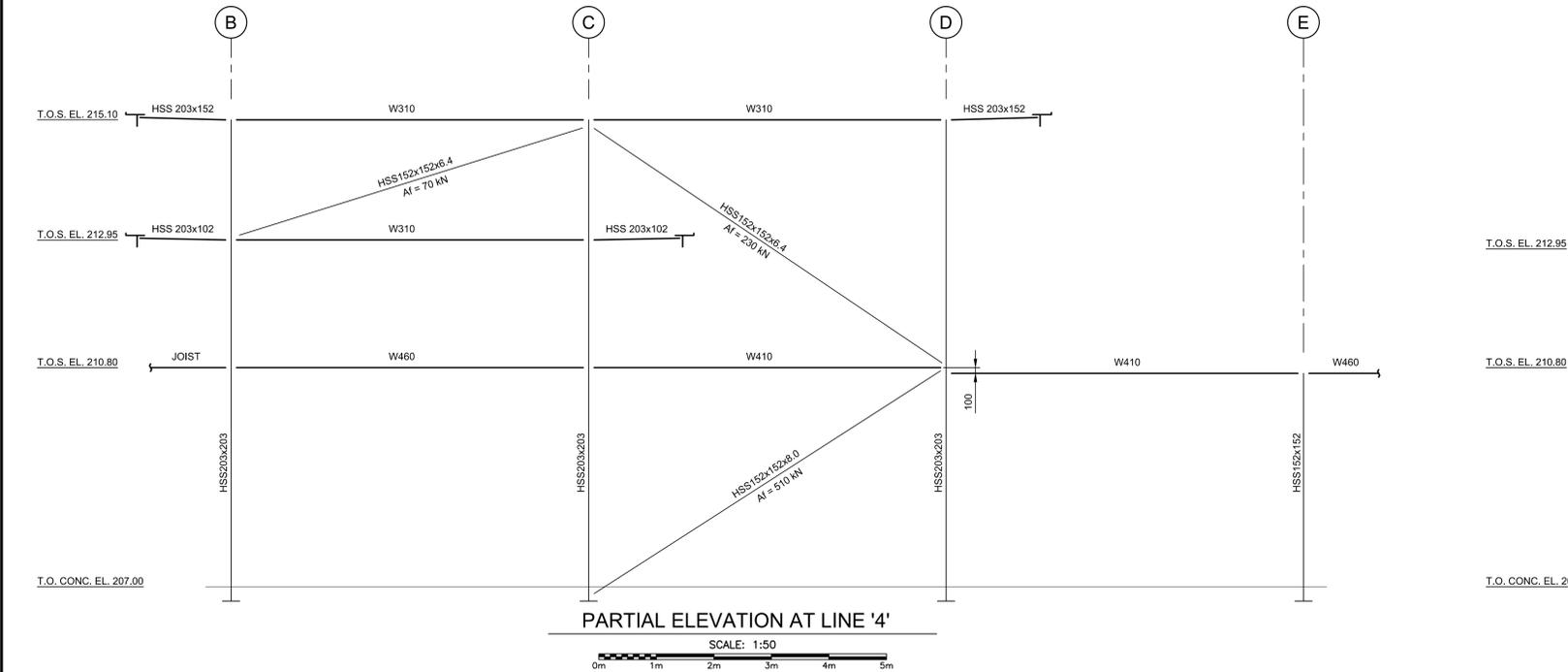
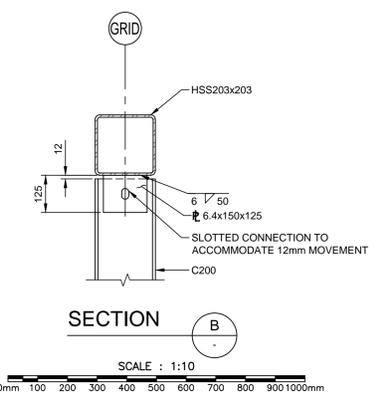
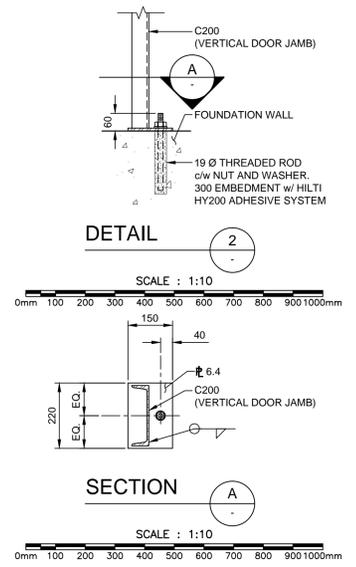
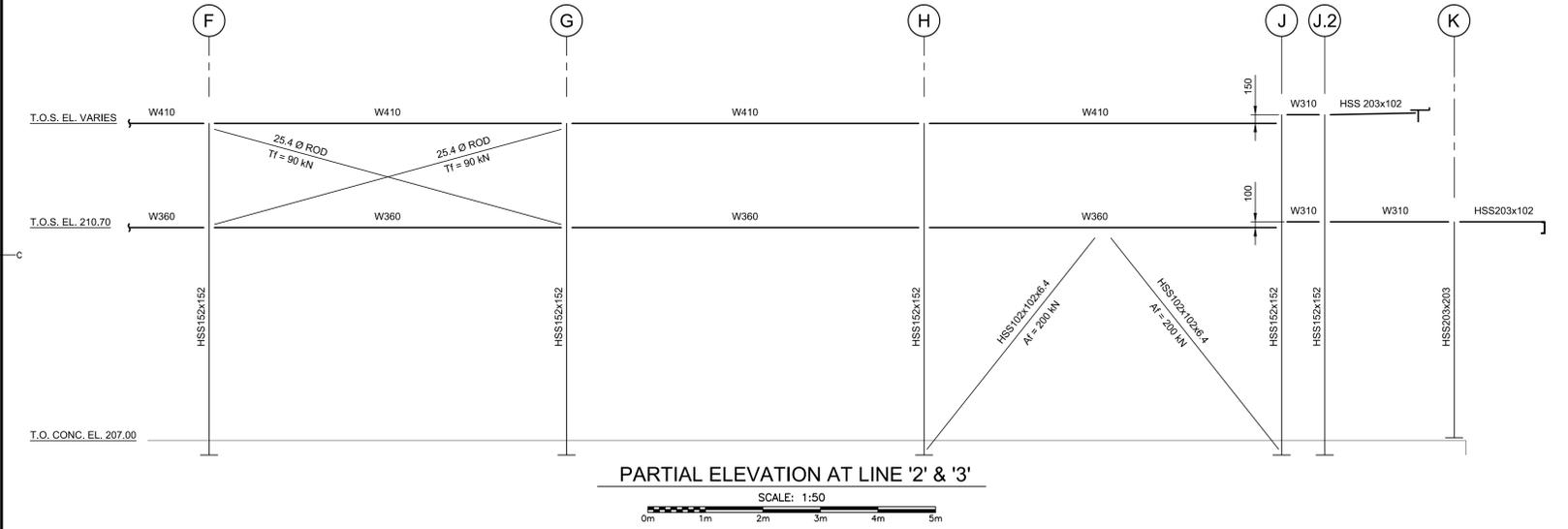
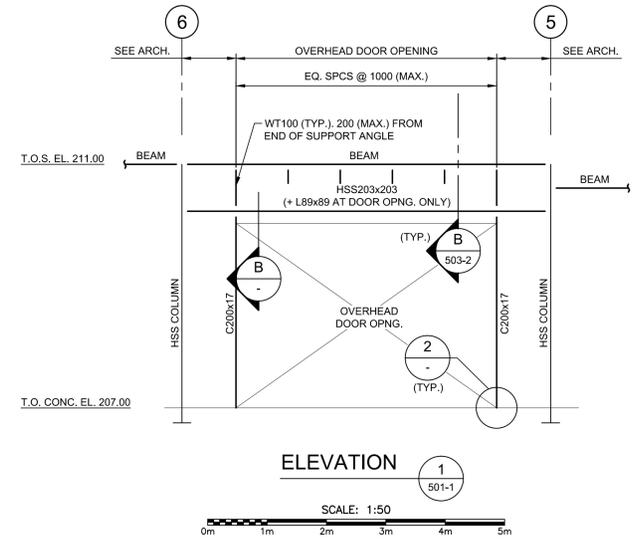
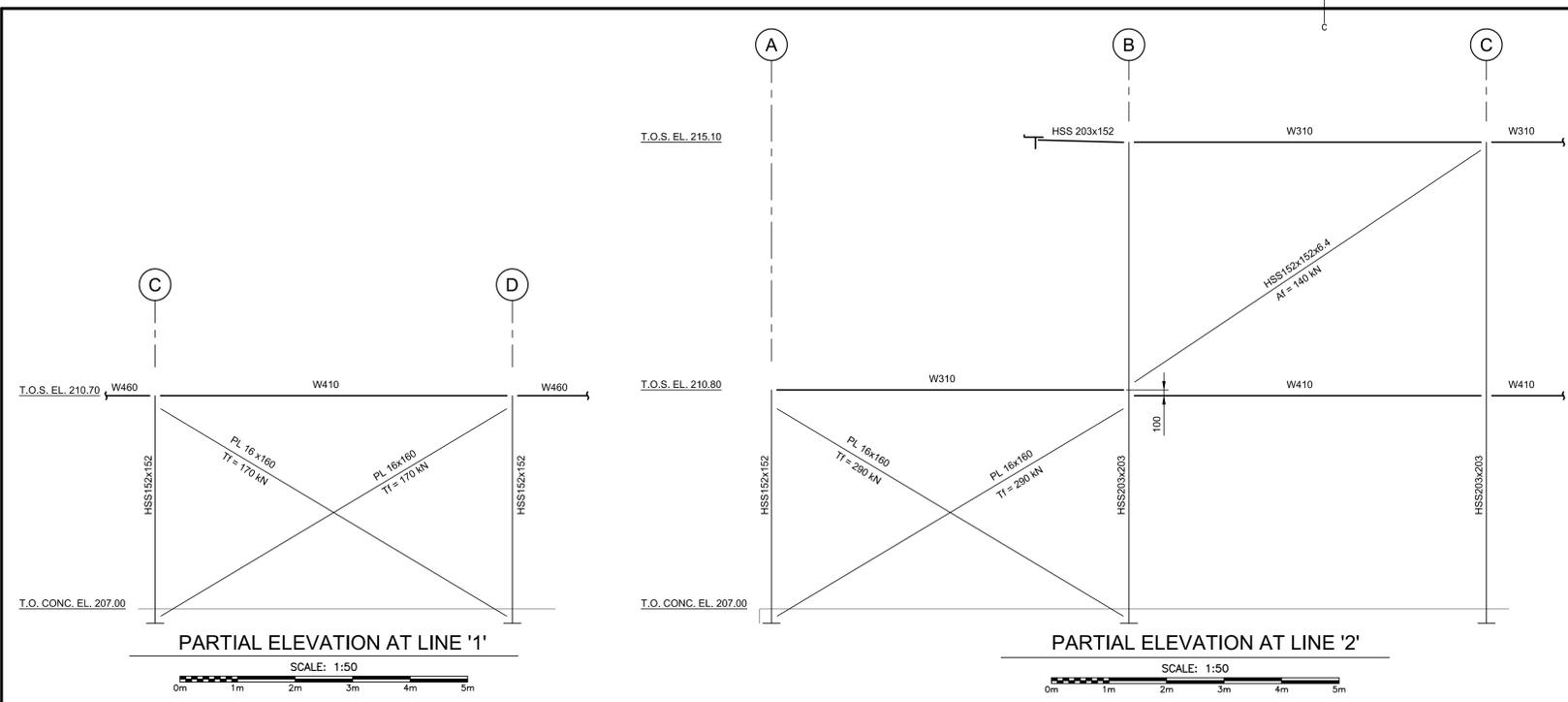


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project: **NEW G.O.C.B SAINT-LEONARD NEW BRUNSWICK**

drawing: **STEEL FRAMING ELEVATIONS SHEET 2 OF 2**

designed	RDU	conçu
date	JANUARY 29, 2016	
drawn	ECM	dessiné
date	JANUARY 29, 2016	
approved	DAG	approuvé
date	FEBRUARY 17, 2016	
Tender		Soumission
PWGC Project Manager	Administrateur de projets TP/GC	
project number	R.069499.001	no. du projet
drawing no.	502-2	no. du dessin



NOTE
 1. SEE DRAWING 501-1 FOR GENERAL NOTES AND LEGEND.



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project **NEW G.O.C.B SAINT-LEONARD NEW BRUNSWICK** project

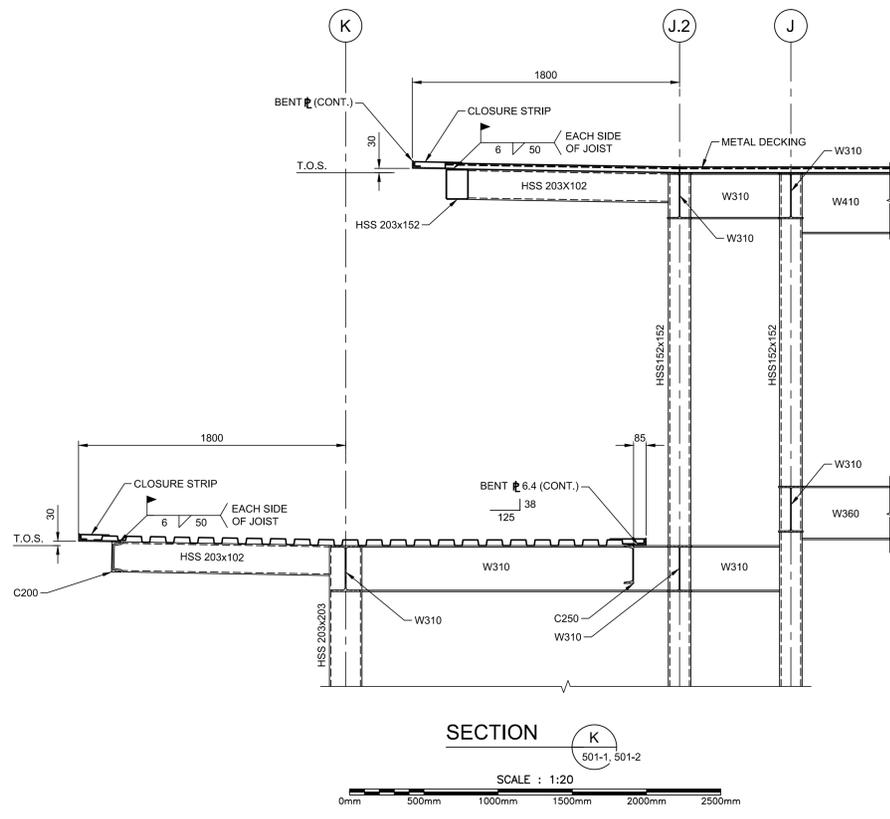
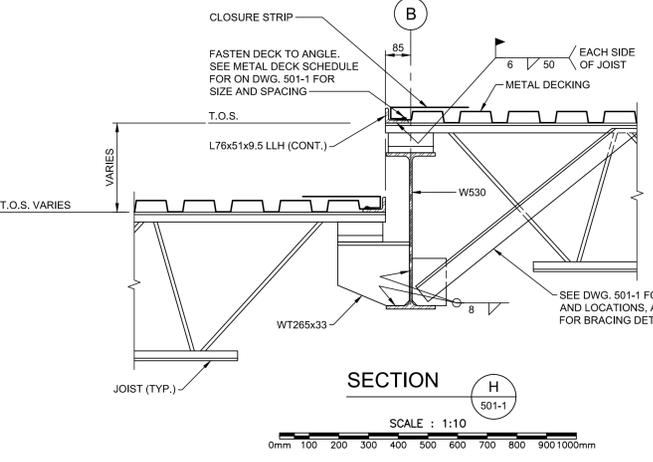
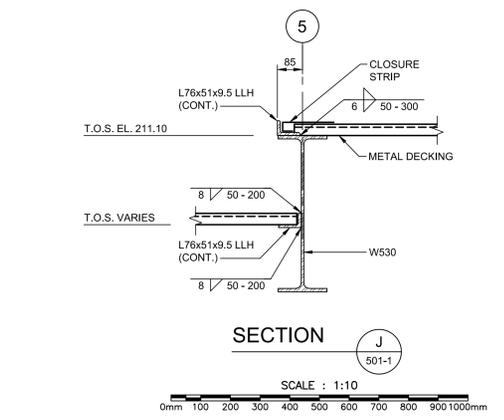
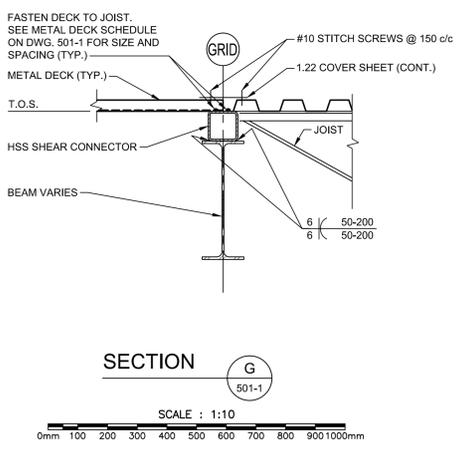
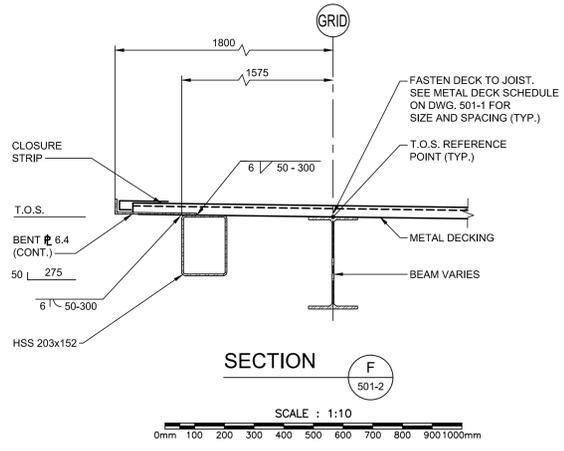
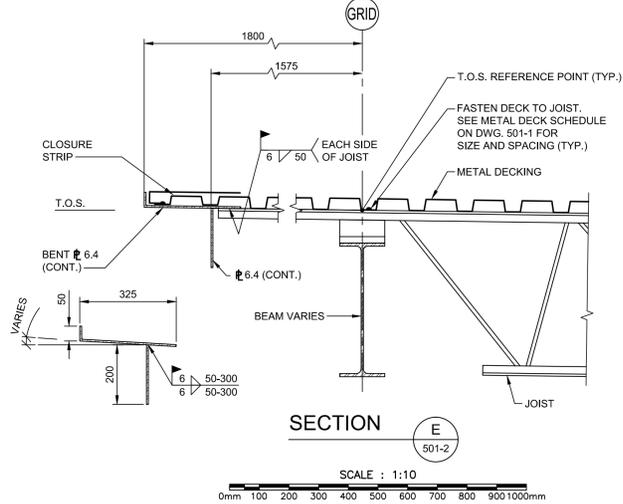
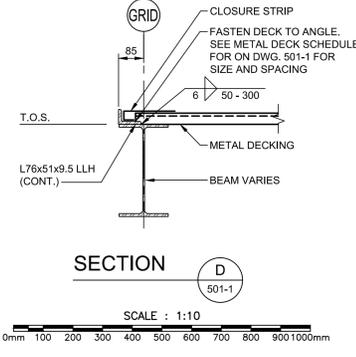
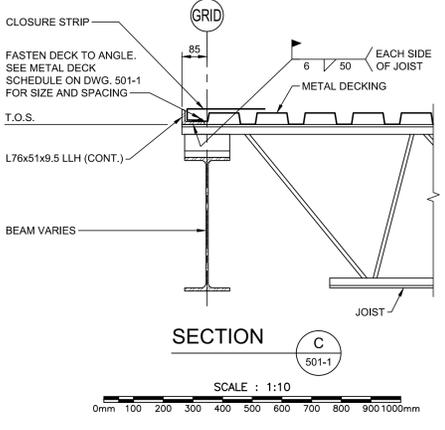
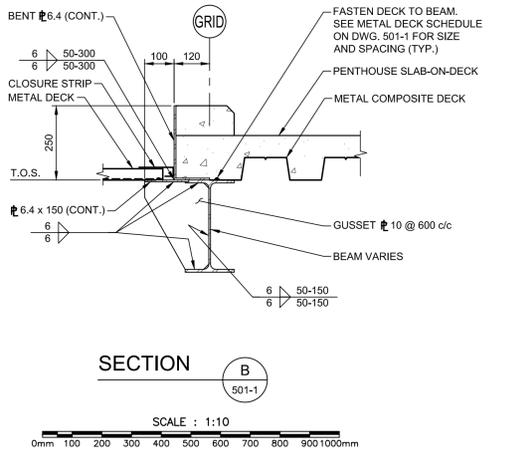
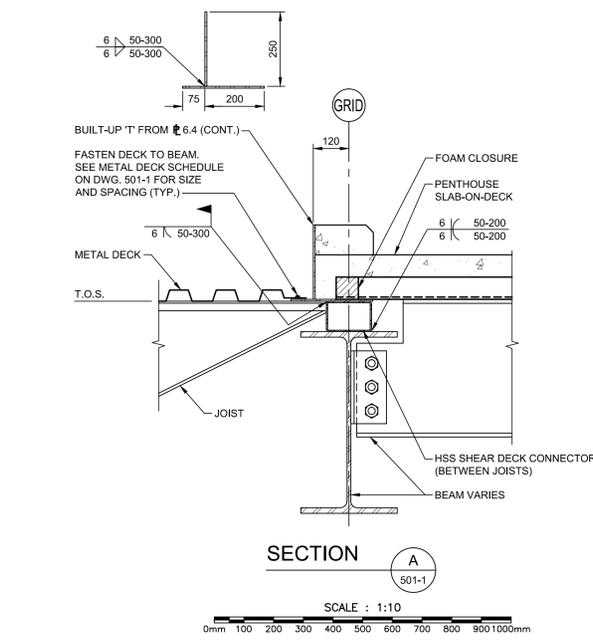
drawing **STEEL FRAMING DETAILS 1 OF 3** dessin

designed	RDJ	conçu
date	JANUARY 29, 2016	
drawn	ECM	dessiné
date	JANUARY 29, 2016	
approved	DAG	approuvé
date	FEBRUARY 17, 2016	
Tender		Soumission

PWSC Project Manager / Administrateur de projets TPSGC

project number **R.069499.001** no. du projet

drawing no. **503-1** no. du dessin



NOTE
1. SEE DRAWING 501-1 FOR GENERAL NOTES AND LEGEND.



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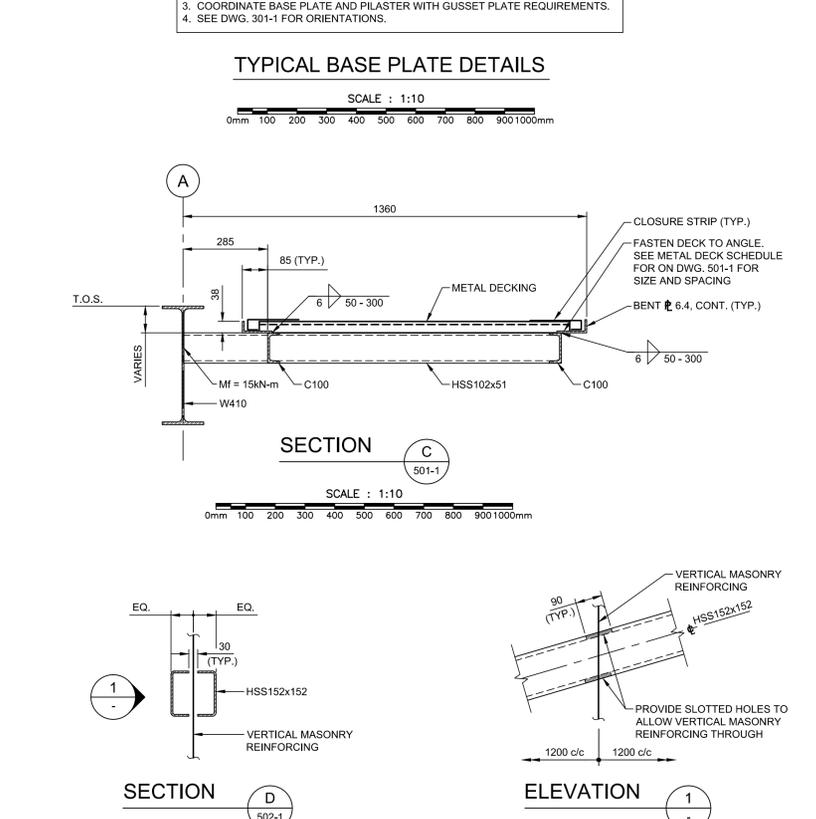
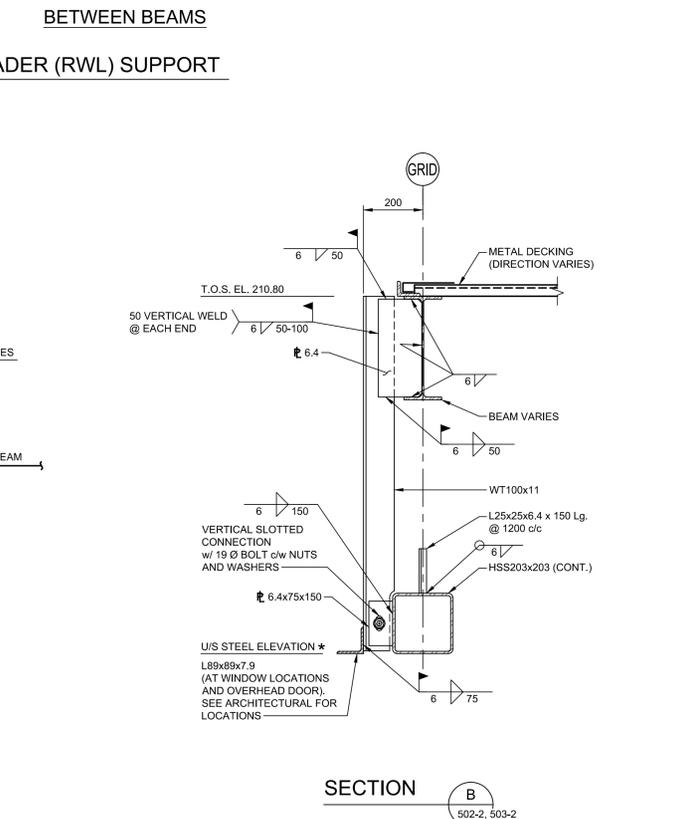
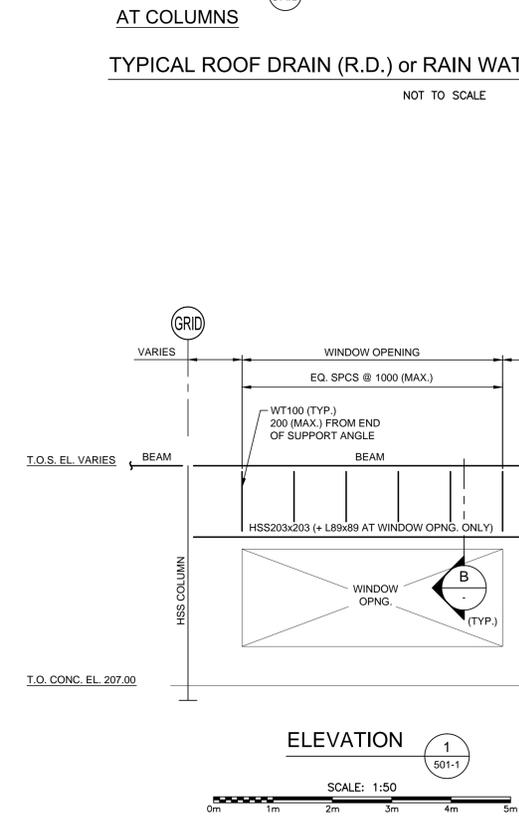
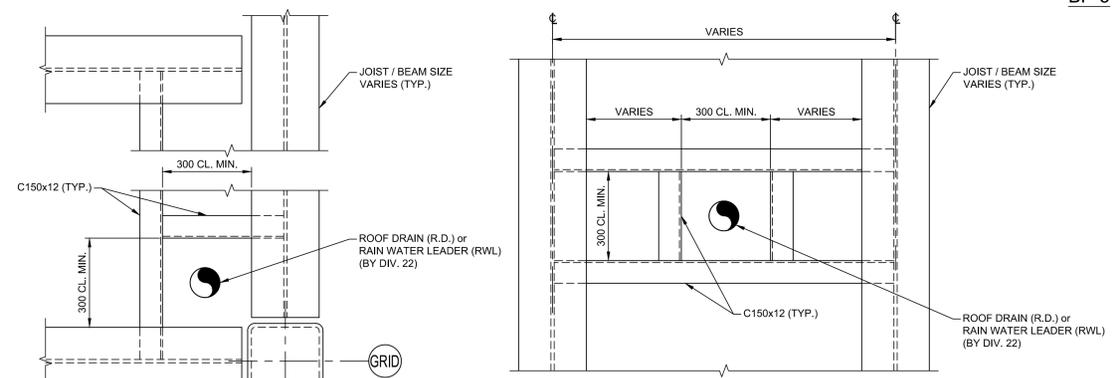
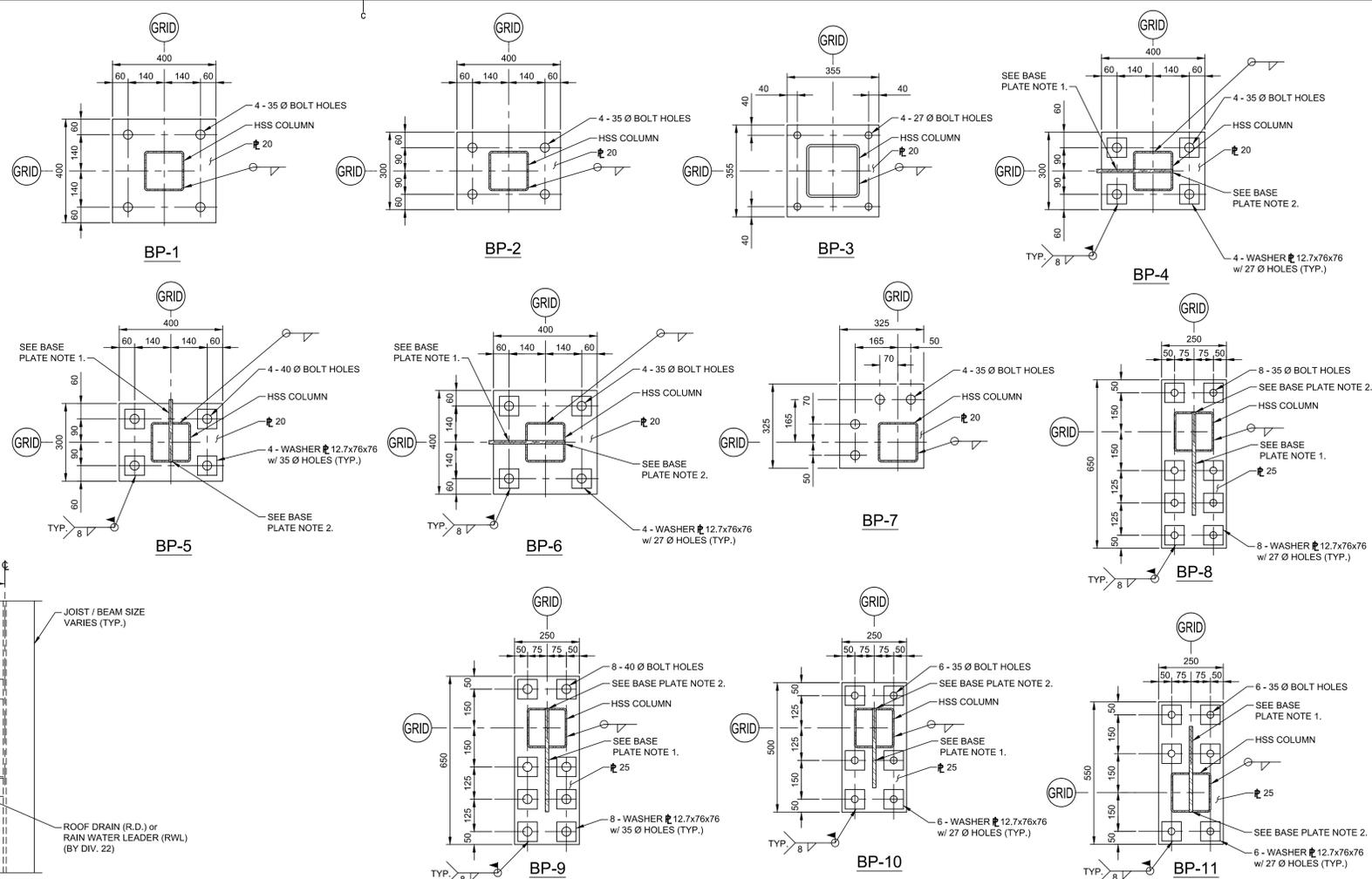
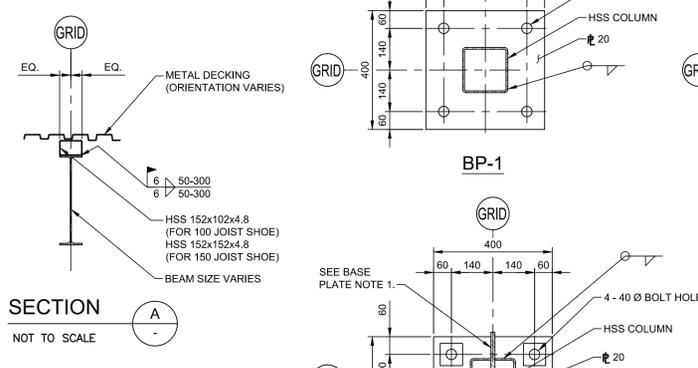
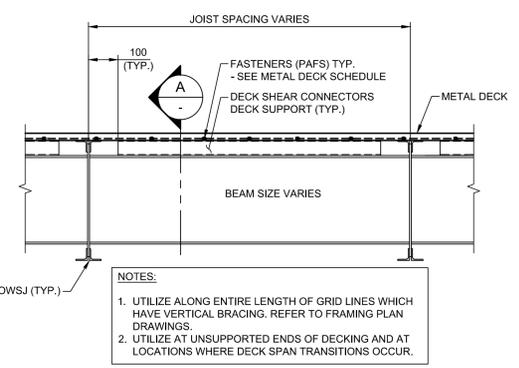
project
NEW G.O.C.B SAINT-LÉONARD NEW BRUNSWICK
project

drawing
STEEL FRAMING DETAILS 2 OF 3
dessin

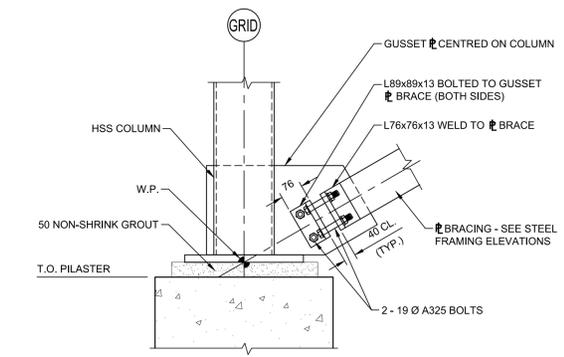
designed	RDU	conçu
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Tender		Soumission

PWSC Project Manager / Administrateur de projets TPSC
project number / no. du projet
R.069499.001

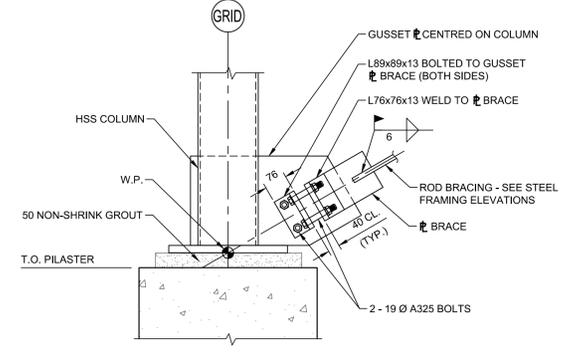
drawing no. / no. du dessin
503-2



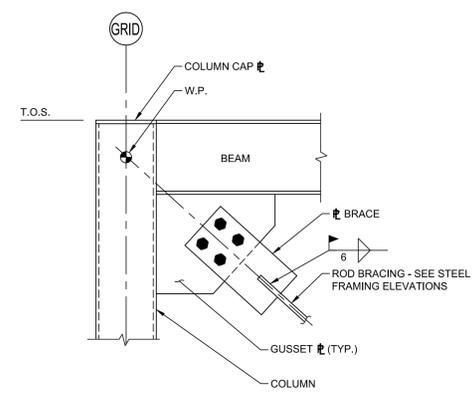
- BRACING INSTALLATION NOTES:**
1. TIGHTEN BOLTS TO REMOVE SWEEP FROM BRACE AND MAKE SNUG.
 2. INSTALL TEMPORARY BRACING TO ENSURE STRUCTURE REMAINS PLUMB AND TRUE AND LEAVE IN PLACE UNTIL PLACEMENT OF SLABS-ON-DECK ON ALL LEVELS IS COMPLETE.
 3. RE-CHECK PLUMBNESS.
 4. TIGHTEN BOLTS WITH 1/2 TURN OF NUT.
 5. WELD BRACE TO GUSSET AFTER STEEL WORK IS PLUMB AND TRUE.
 6. CUT AND REMOVE OUTSTANDING LEGS OF L76x76x13 TIGHTENER ANGLES.
 7. GRIND SMOOTH.
 8. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE BRACING REMAINS PRE-TENSIONED AND PROTECTED AGAINST THERMAL EXPANSION UNTIL CONSTRUCTION OF MASONRY WALLS IS COMPLETE AND BUILDING TEMPERATURE HAS STABILIZED.



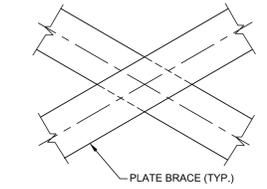
**TYPICAL PLATE BRACE
 PRE-TENSIONING DETAIL**
 NOT TO SCALE



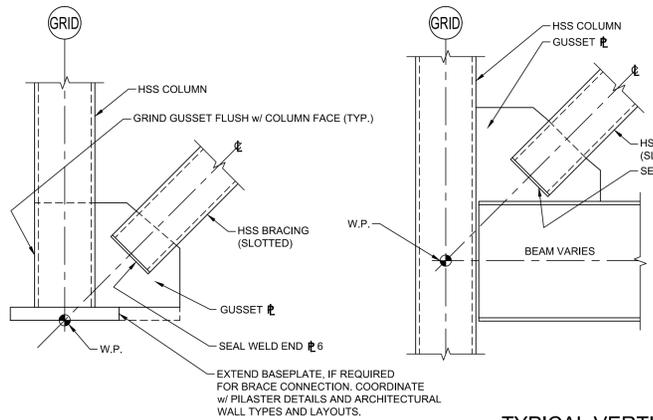
**TYPICAL ROD BRACE
 PRE-TENSIONING DETAIL**
 NOT TO SCALE



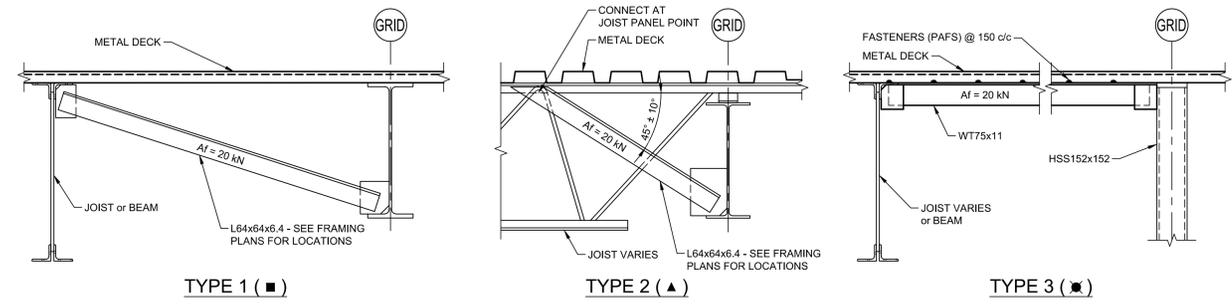
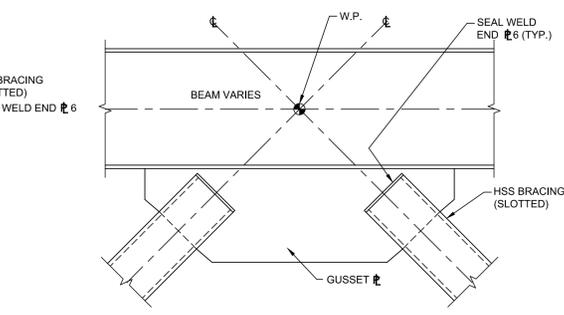
**TYPICAL ROD BRACE
 BEAM / COLUMN CONNECTION DETAIL**
 NOT TO SCALE



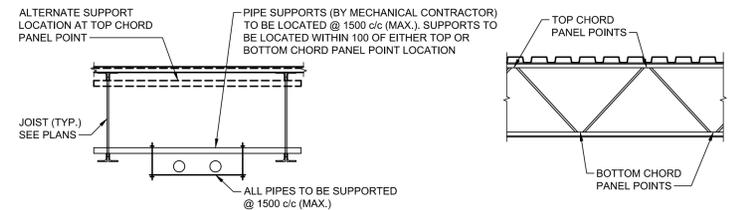
**TYPICAL PLATE BRACE
 INTERSECTION DETAIL**
 NOT TO SCALE



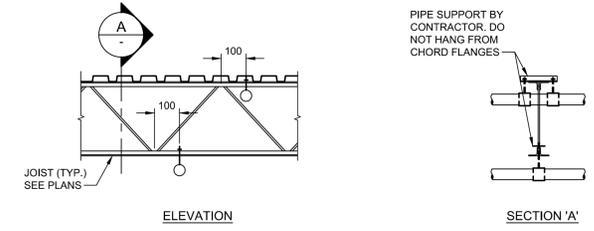
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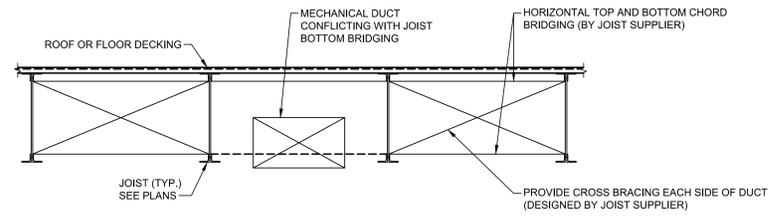
TYPICAL BEAM FLANGE BRACING DETAILS
 NOT TO SCALE



TYPICAL MECHANICAL PIPE SUPPORT DETAIL PARALLEL TO JOIST
 NOT TO SCALE



TYPICAL MECHANICAL PIPE SUPPORT DETAIL PERPENDICULAR TO JOIST
 NOT TO SCALE



JOIST BRIDGING DETAIL AT CONFLICTING DUCTWORK
 NOT TO SCALE

NOTE
 1. SEE DRAWING 501-1 FOR GENERAL NOTES AND LEGEND.



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project		project

**NEW
 G.O.C.B
 SAINT-LÉONARD
 NEW BRUNSWICK**

**STEEL FRAMING
 DETAILS 3 OF 3**

designed	RDU	conçu
date	JANUARY 29, 2016	
drawn	ECM	dessiné
date	JANUARY 29, 2016	
approved	DAG	approuvé
date	FEBRUARY 17, 2016	
Tender		Soumission
PWGC Project Manager	Administrateur de projets TPWSC	
project number		no. du projet
	R.069499.001	
drawing no.		no. du dessin
	503-3	