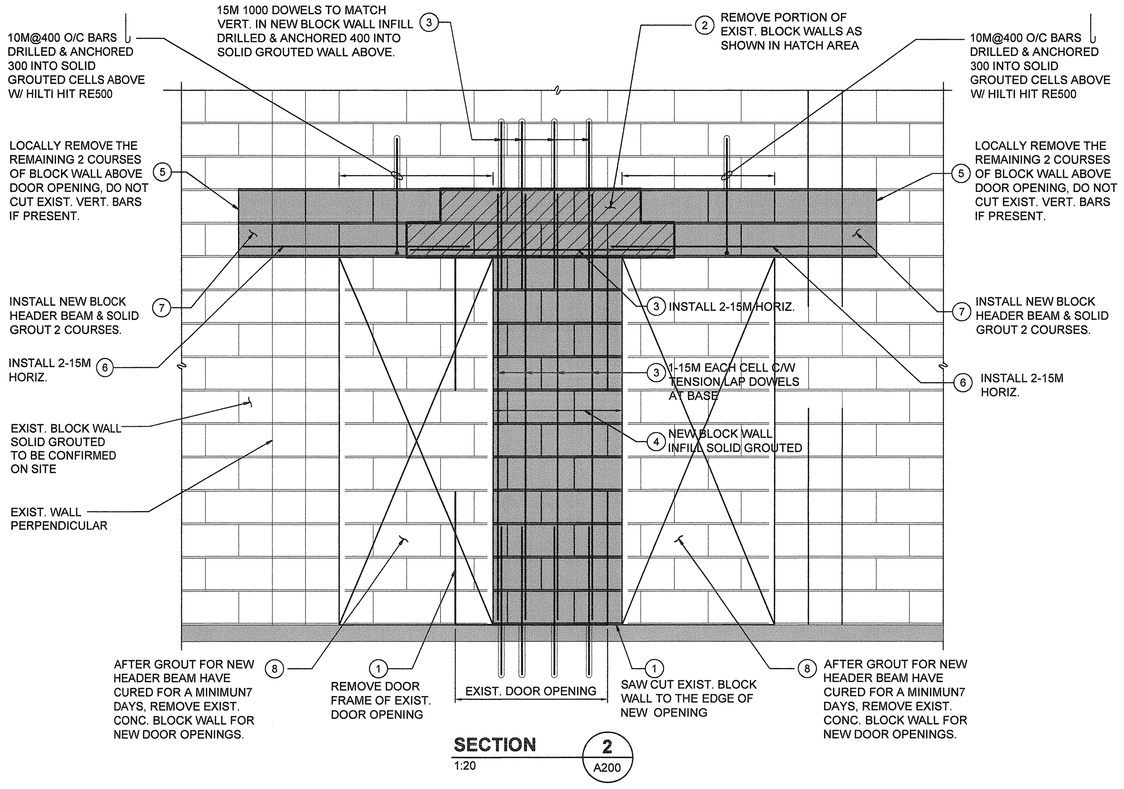
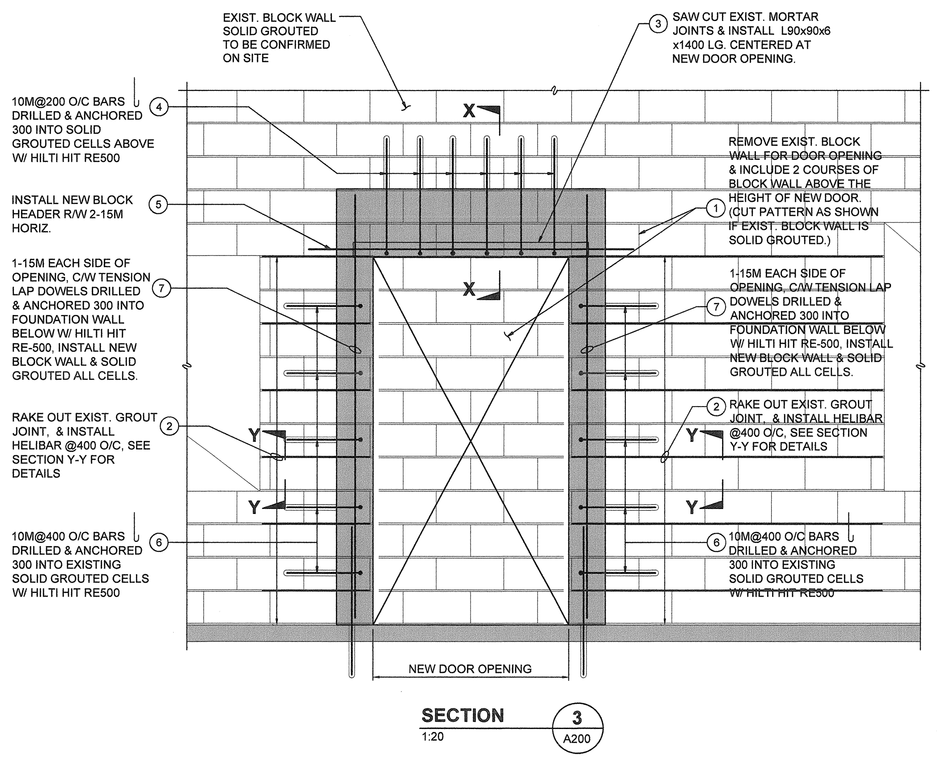


SECTION 2 / A200
1:20



SECTION 3 / A200
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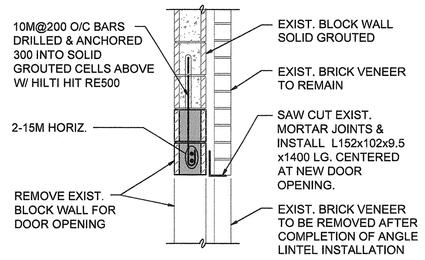
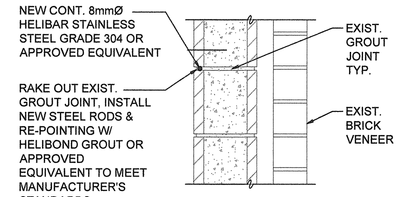
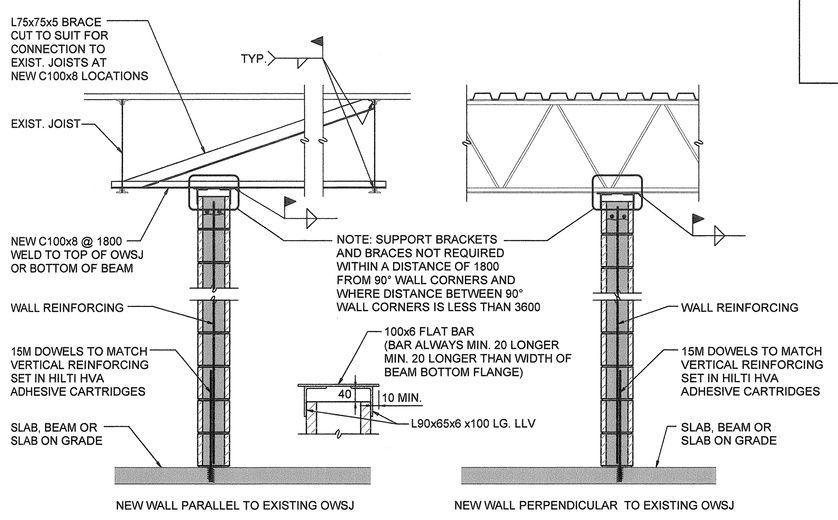


SECTION X - X
1:20



SECTION Y - Y
1:10

NOTE:
CONTRACTOR SHALL PROVIDE SHORING FOR ALL EXISTING STEEL BEAMS/JOISTS THAT ARE SUPPORTED ON THE BLOCK WALLS PRIOR TO REMOVAL OF EXISTING BLOCK WALLS FOR NEW OPENINGS, SHORING SHALL BE REMAINED UNTIL THE COMPLETION OF NEW HEADER BEAMS. i.e., GROUT HAS REACHED ITS 28 DAYS STRENGTH.



SECTION 1 / A200
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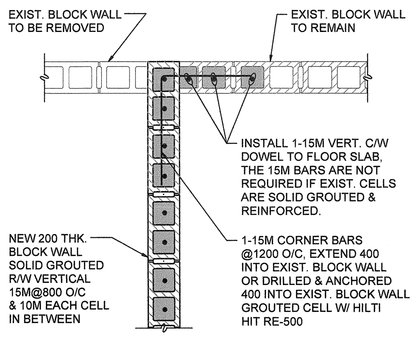
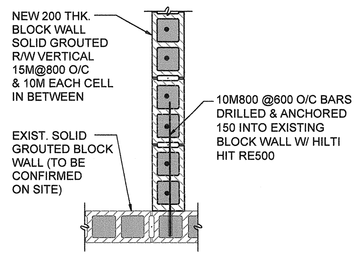


DETAIL A / A200
1:20



DETAIL B / A200
1:20

STRUCTURAL NOTES

GENERAL

1. THE STRUCTURAL DETAILS SHALL BE READ IN CONJUNCTION WITH THE DRAWINGS AND SPECIFICATIONS FROM ALL OTHER CONSULTANTS. ANY DISCREPANCIES NOTED SHALL BE REPORTED IMMEDIATELY FOR CLARIFICATION.
2. AFTER REMOVAL OF EXISTING CEILING AND EXPOSE EXISTING FLOOR/ROOF FRAMING ABOVE, PRIOR TO REMOVAL OF ANY PARTITION WALLS AND/OR NON-LOAD-BEARING BLOCK WALLS, INFORM DEPARTMENTAL REPRESENTATIVE TO BE ON SITE TO CONFIRM THE WALLS TO BE REMOVED ARE NON-LOAD-BEARING WALLS.

FIELD REVIEW:

1. DEPARTMENTAL REPRESENTATIVE THROUGH CWMM CONSULTING ENGINEERS PROVIDES PROVIDES FIELD REVIEW FOR THE WORK SHOWN ON THE STRUCTURAL DRAWINGS PREPARED BY CWMM CONSULTING ENGINEERS LTD. THIS REVIEW IS A PERIODIC REVIEW AT THE PROFESSIONAL JUDGMENT OF CWMM CONSULTING ENGINEERS LTD. THE PURPOSE IS TO ASCERTAIN THAT THE WORK IS IN GENERAL CONFORMANCE WITH THE PLANS AND SUPPORTING DOCUMENTS PREPARED BY CWMM CONSULTING ENGINEERS LTD. AND TO FULFILL THE REQUIREMENTS FOR THE COMPLETION OF LETTERS OF ASSURANCE REQUIRED BY THE APPLICABLE BUILDING CODE.
2. A MINIMUM 48 HOURS NOTICE SHALL BE GIVEN TO THE DEPARTMENTAL REPRESENTATIVE BY THE CONTRACTOR FOR ANY INSPECTION TO BE CARRIED OUT.

NON-STRUCTURAL COMPONENTS:

1. NON-STRUCTURAL COMPONENTS ARE NOT THE RESPONSIBILITY OF CWMM CONSULTING ENGINEERS LTD. SUCH COMPONENTS OF THE PROJECT ARE DESIGNED, DETAILED, SPECIFIED AND REVIEWED IN THE FIELD BY OTHERS. LETTERS OF CERTIFICATION OF ADEQUACY, INSTALLATION ETC. OF SUCH COMPONENTS ARE BY OTHERS.
2. MANUFACTURERS OF NON-STRUCTURAL COMPONENTS WHICH AFFECT THE STRUCTURAL FRAMING SHALL SUBMIT SHOP DRAWINGS TO THE DEPARTMENTAL REPRESENTATIVE FOR REVIEW. THE SHOP DRAWINGS SHALL CLEARLY INDICATE LOADS IMPOSED ON THE STRUCTURE. REVIEW WILL BE LIMITED TO THE EFFECT OF THE COMPONENTS ON THE STRUCTURAL FRAMING.
3. EXAMPLES OF NON-STRUCTURAL COMPONENTS INCLUDE, BUT ARE NOT LIMITED TO:
   - ARCHITECTURAL COMPONENTS SUCH AS HANDRAILS, GUARDRAILS, RAILINGS, FLAG POST, REMOVABLE CANOPIES, CEILINGS, VEHICLE PROTECTION SYSTEMS, ORNAMENTAL COMPONENTS, ETC.
   - ARCHITECTURAL GLASS BLOCKS AND THEIR ATTACHMENTS.
   - BRICK AND BLOCK VENEERS, THEIR REINFORCING IF ANY AND TIES
   - CURTAIN WALL SYSTEMS, CLADDING, SKYLIGHT, WINDOW MULLIONS, ETC.
   - INTERIOR AND EXTERIOR NON-LOAD BEARING STEEL STUD WALLS.
   - SUPPORT AND BRACING OF MECHANICAL AND ELECTRICAL SYSTEMS AND EQUIPMENTS FOR NON-GRAVITY AND SEISMIC LOADS.

EXISTING STRUCTURES:

1. PRIOR TO CONSTRUCTION THE CONTRACTOR SHALL VERIFY ALL RELEVANT DIMENSIONS TO AND OF EXISTING STRUCTURES. NOTIFY DEPARTMENTAL REPRESENTATIVE IMMEDIATELY IF DISCREPANCIES ARE NOTED.
2. THE CONTRACTOR SHALL AT HIS OWN EXPENSE REPAIR AND MAKE GOOD ANY DAMAGE TO THE EXISTING STRUCTURE, EQUIPMENT AND FINISHES CAUSED BY THE CONSTRUCTION ACTIVITIES. REPAIRS SHALL BE TO THE SATISFACTION OF THE DEPARTMENTAL REPRESENTATIVE.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE TEMPORARY SUPPORT OF ANY ADJACENT EXISTING STRUCTURES DURING CONSTRUCTION. UNDERPINNING OR BRACING SHALL BE DESIGNED BY A QUALIFIED PROFESSIONAL ENGINEER REGISTERED IN THE PROVINCE OF BRITISH COLUMBIA. 4 COPIES OF SIGNED AND SEALED DESIGN DRAWINGS TO DEPARTMENTAL REPRESENTATIVE FOR REVIEW OF CONFORMANCE WITH GENERAL DESIGN CRITERIA.

MASONRY

1. REFER TO SPECIFICATION FOR CONCRETE MASONRY, CODE REFERENCE AND OTHER REQUIREMENTS.
2. UNLESS NOTED OTHERWISE PROVIDE BLOCK HORIZONTAL REINFORCEMENT AS FOLLOWS:

   HORIZONTAL: 3.8mm DIA. LADDER JOINT REINF. @ 400
   2-15M IN CONTINUOUS BOND BEAMS AS SHOWN BELOW:
   H<2400: 1 BOND BEAM AT TOP OF WALL
   2400<H<4800: 1 BOND BEAM AT TOP OF WALL PLUS 1 BOND BEAM MIDHEIGHT (H = CLEAR HEIGHT OF WALL)
3. UNLESS NOTED OTHERWISE SPLICE REINFORCING AND EMBED DOWELS AS FOLLOWS:

   20M BARS: 900
   15M BARS: 650
   10M BARS: 450
   WIRE REINF: 300
4. ALL VERTICAL REINFORCING SHALL RUN CONTINUOUS THROUGH BOND BEAMS AND LINTELS OR BE SPLICED AS SPECIFIED.
5. NOTIFY THE DEPARTMENTAL REPRESENTATIVE MINIMUM 48 HOURS PRIOR TO ANY GROUT POUR.
6. CELLS TO BE REINFORCED SHALL BE KEPT CLEAR OF MORTAR.
7. FILL CELLS CONTAINING REINFORCING STEEL OR ANCHOR BOLTS WITH 20MPa GROUT, 10mm AGGREGATE, 200-250 SLUMP. PUDDLE OR VIBRATE TO COMPLETELY FILL CELLS. REVIBRATE AFTER 10 TO 40 MINUTES, WHEN EXCESS WATER HAS BEEN ABSORBED BY MASONRY UNITS. TOP OFF FILLED CORES WITH FRESH GROUT AFTER REVIBRATION.
8. BOND BEAM TO BE KNOCK-OUT TYPE.
9. PROVIDE CLEAN-OUTS AT BOTTOM OF ALL GROUTED CORES FOR LIFTS OVER 1500.

STRUCTURAL STEEL

1. REFER TO SPECIFICATION FOR STRUCTURAL STEEL, CODE REFERENCE AND OTHER REQUIREMENTS.
2. GRADES OF MATERIAL (UNLESS NOTED OTHERWISE):

STRUCT. STEEL & MISC. METAL	- 300W
HSS	- 350W (CLASS C)
ANCHOR BOLTS	- ASTM A307
SHOP PRIMER	- CISC/CPMA 1-73A
3. INSTALL AND TORQUE ALL BOLTS AND DRILLED ANCHORS IN ACCORDANCE WITH MANUFACTURERS' SPECIFICATIONS AND PROCEDURES.
4. IMPERIAL SIZE BOLTS AND PLATE PRODUCTS ARE ACCEPTABLE ON AN EQUAL SIZE -EQUAL STRENGTH BASIS.
5. DRAWINGS FROM ALL CONSULTANTS SHALL BE EXAMINED FOR EXACT LOCATIONS, DIMENSIONS AND ELEVATIONS.
6. CONFIRM ALL LOCATIONS, DIMENSIONS AND ELEVATIONS WITH ACTUAL SITE MEASUREMENTS BEFORE FABRICATION.

Public Works and Government Services Canada / Travaux publics et Services gouvernementaux Canada
REAL PROPERTY SERVICES
Pacific Region
SERVICES IMMOBILIERS
Région de Pacifique

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PROVINCE OF BRITISH COLUMBIA
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PROFESSIONAL ENGINEER
25743
DESIGNATED STRUCTURAL ENGINEER
Jan 08/14

Revision/ Revision	Description/Description	Date/Date
	APRIL 14, 2014 - TENDER SET	
	MARCH 1, 2014 - PRE TENDER SET	
	DECEMBER 1, 2013 - 100 % DWG	
	DECEMBER 1, 2013 - 90 % DWG	
	AUGUST 22, 2013	
	AUGUST 12, 2013	

Client/client
CORRECTIONAL SERVICE OF CANADA

Project title/Titre du projet
AGASSIZ B.C.
KENT INSTITUTION
A AND D
REDEVELOPMENT

Consultant Signature Box Only

Designed by/Concept par
SHELLY ZHAO

Drawn by/Dessine par
LOCK HE

PWGSC Project Manager/Administrateur de Projets TPSGC
DARYL SINCLAIR

PWGSC, Regional Manager, Architectural and Engineering Services/ Gestionnaire régionale, Services d'architectural et de génie, TPSGC
OREST KLUFAS

Drawing title/Titre du dessin
NEW WALL STRUCTURAL DETAILS
SCALE 1 - 20

Project No./No. du projet	Sheet/Feuille	Revision no./ La Révision no.
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