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SOLICITATION AMENDMENT
MODIFICATION DE L'INVITATION

The referenced document is hereby revised; unless otherwise indicated, all other terms and conditions of the Solicitation remain the same.

Ce document est par la présente révisé; sauf indication contraire, les modalités de l'invitation demeurent les mêmes.

Comments - Commentaires

Title - Sujet New 50 Man Living Units - Ferndale	
Solicitation No. - N° de l'invitation EZ899-131401/A	**Amendment No. - N° modif.** 002
Client Reference No. - N° de référence du client	**Date** 2012-10-23
GETS Reference No. - N° de référence de SEAG PW-$PWY-005-6794	
File No. - N° de dossier PWY-2-35164 (005)	**CCC No./N° CCC - FMS No./N° VME**
Solicitation Closes - L'invitation prend fin at - à 02:00 PM on - le 2012-11-09	**Time Zone** **Fuseau horaire** Pacific Daylight Saving Time PDT
F.O.B. - F.A.B. **Plant-Usine:** ☐ **Destination:** ☑ **Other-Autre:** ☐	
Address Enquiries to: - Adresser toutes questions à: Pillay, Sal (PWY)	**Buyer Id - Id de l'acheteur** pwy005
Telephone No. - N° de téléphone (604) 775-9386 ( )	**FAX No. - N° de FAX** (604) 775-6633
Destination - of Goods, Services, and Construction: **Destination - des biens, services et construction:** CSC - Ferndale Institution - Mission, BC	

Vendor/Firm Name and Address
Raison sociale et adresse du fournisseur/de l'entrepreneur

Instructions: See Herein

Instructions: Voir aux présentes

Delivery Required - Livraison exigée	**Delivery Offered - Livraison proposée**
Vendor/Firm Name and Address **Raison sociale et adresse du fournisseur/de l'entrepreneur** **Telephone No. - N° de téléphone** **Facsimile No. - N° de télécopieur**	
Name and title of person authorized to sign on behalf of Vendor/Firm (type or print) **Nom et titre de la personne autorisée à signer au nom du fournisseur/ de l'entrepreneur (taper ou écrire en caractères d'imprimerie)** **Signature**	**Date**

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Canada

Refer to the attached Addendum No. 1 issued 23 October 2012.

The following changes in the tender documents are effective immediately. This addendum will form part of the contract documents.

SPECIFICATIONS

.1 03 30 00 - Cast-in-Place Concrete

Paragraph 2.2.1.2:
(1) **Add:** concrete properties to table:

Basement Columns	30	20	N	-
Ground Floor Slabs and Slab Bands	25	20	N	-
Interior Foundation Walls	25	20	N	-

.2 Section 06 10 11 - Rough Carpentry

Paragraph 2.2.1.2:

(2) **Clarification:** Structural drawings indicate 12 mm plywood T&G roof sheathing on pitched roofs with metal roofing panel system: See addendum item (10)
.1 If the alternate method of roofing panel support using 38 x 89 mm strapping, as specified in section 07 46 13 para. 3.2.3, is not applied to roof, **Revise** the roof sheathing thickness shown on structural drawings to 15.9 mm T&G plywood as specified in Section 06 10 11.
.2 If the 38 x 89 mm strapping is utilized to support the metal roofing system , **Revise** the roof sheathing in Section 06 11 01 paragraph 2.2.1.2 to 12.7 mm plywood with square edges to correspond with the structural drawings. Coordinate with metal roofing panel supplier for recommended support requirements for metal roofing panel system using one of the above noted methods (2) .1 or .2.

.3 07 11 26 - Spray Applied Elastomeric Waterproofing

Paragraph 1.1.3:
(3) **Delete:** this paragraph entirely

Paragraph: 1.11.1:
(4) **Revise:** section number to read: 07 11 26

.4 07 44 56 - Fiber Cement Panel System

Paragraph 2.1.1:
(5) **Add:** new paragraph .3
.3 Acceptable Product: SandStone II Stone Panels by Nichiha.

.5 08 33 36 - Side Coiling Counter Door

(6) **Delete:** this Section entirely.

.6 23 52 00 - Heating Boilers

Paragraph 2.2.2.5;
(7) **Revise:** to read as follows:
.5 The boiler control shall be built-in complete with full outdoor reset, multiple load control with relays for four pumps, variable speed signal for system pump or air handler, clear constantly bright LCD display providing plain English information, and serial port for software upgrades. Altitude compensation shall be available via keypad adjustment, for maintenance of full rating plate output to 8,500 ft. without requirement for orifice changes. The boiler shall offer internal multiple boiler staging and rotation control, for management of up to 24 boilers. The boiler control shall be able to accept an external 0-10 VDC or 4-20 mA input signal, as well as being fully capable of a BACNet interface.

Paragraph 2.2.2.9;
(8) **Revise:** paragrapgh and sub-paragraphs to read as follows:
.9 Venting pipe shall be of either:
.1 Double wall stainless steel grade AL 29-4C (inner) and shall be able to handle positive pressure and flue gas condensate. Outer jacket is permitted to be constructed of Type 304 or Type 430 stainless steel.
.2 System 636 CPVC piping. Grey (high temperature) shall be used.

The chimney must be designed by a chimney manufacturer including all connector pieces, roof flashing, storm collar and condensate drain connections protocol.

Paragraph 2.2.3.6 - Interface with Buidling Management System:
(9) **Add:** new paragraphs .3 & .4:
.3 All Inputs, Outputs, Variables and Parameters shall be passed to DDC through the BACNet interface. BMS shall communicate with Master Controller over E1 A-485 (M/S/TP) 2 wire protocol or BACNet/IP.
.4 Boiler controller shall have a single point connection and be compatible with the building management system via BACNet communication.

.7 25 90 11 - EMCS Sequences of Operation

Paragraph 3.1.1:
(10) **Add:** new paragraph .12 as follows:
.12 The DDC system shall communicate with the boilers via a BACnet interface. All points available through the BACnet interface shall be mapped to the DDC system by the Controls Contractor.

Clause 3.1 Sequence of Operation:
(11) **Delete:** subparagraphs 3.10 and 4.11which state:
(Provide all field wiring including power wiring from disconnect switch to ASD's and to motor terminal block.)

DRAWINGS

ARCHITECTURAL

.1 Drawing A-003 - Wall, Roof & Floor Types

Wall Types

(12) **Clarification:** of wall membrane terminology:
WT-1 : Air Barrier is a waterproofing membrane
WT-4 : Air Barrier is sheathing paper

(13) **Add:** new wall type WT-6 (Corrugated Metal Panel Basement Wall):
WT-6 : Corrugated metal panel c/w vertical girts
Metal Furring Channel @ 410mm O.C.
75mm Thick RSI 3 Rigid Insulation with taped joints
Air and waterproofing membrane.
Concrete foundation wall

(14) **Clarification:** new wall type WT-6 applies to all basement walls except on west elevation between grid 3 & 4. See Drawing A-300.

.2 Drawing A-200 - Basement Floor Plan

(15) **Delete:** retaining walls at East and West end of Building.

.3 Drawing A-300 - South & West Elevations

West and South Elevations

(16) **Revise:** size of cement board panels to 1818 x 455.

.4 Drawing A-400 - Sector Plan, Basement Floor Core

Basement Floor Plan

(17) **Clarification:** all interior concrete walls in Basement are painted PTN-4.

.5 Drawing A-410 - Washroom Plans and Elevations

Detail 1 /202-410 Typical Residential Washrooms

(18) **Add:** note:
"Depress concrete floor at all Barrier Free Showers - Confirm Floor Depression Depth and Dimension with Shower Supplier before Construction of Concrete Floor"

.6 Drawing A-401 - Sector Plan Ground Floor Core

Ground Floor Plan

(19) **Delete:** note adjacent to stair No 2 and No 3 referring to "Superlite II XL". Refer to detail No. 3/A-201-A-412 for glazing.

(20) **Delete:** Door 120A and associated note.

.7 Drawing A-440 - Reception Counter Plan Sections and Details, Common Area

Details 1, 2, 5, 6, and 7 on Drawing A-440.

(21) **Delete:** side coiling door (120A) and associated hardware and plywood door pocket. Extend upper cupboard shelf unit to full length of bulkhead above. Extend counter/ backsplash to align with bulkhead and cupboard above.

Millwork Notes:

(22) **Delete:** note 18.

.8 Drawing A-602 - Second Floor Reflected Ceiling Plan

North, East and West Residential Pods

(23) **Clarification**: of six ceiling mounted metal access panels, including six constructed attic access panels located in close proximity, directly above each ceiling access hatch. Exact location as directed by the Departmental Representative.

.1 Construct each ceiling mounted access hatch within a wood frame module, 1830 long and full width of corridor framed of 38 x 140 D-Fir No2 or better grade joists and fastened to corridor wall studs and resting on ledgers scabbed to studs at bearing points. Nail joists to side of wall studs and to ledgers to support platform module frame live and dead loads.

.2 Fasten G1S 15.9 mm plywood to top of module framing using deck screws.

.3 The intent is to provide a temporary platform to support maximum two workers and tools when accessing the attic via the ceiling access hatch.

.4 Provide 610 x 1220 opening in one end of module framing to accommodate the metal ceiling access hatch. Finish underside of module platform with 15.9 gypsum board flush with suspended gypsum board ceiling and painted to match adjoining ceiling. Finish paint access hatch as per metal door finishes in colour to match ceiling. Provide double drywall metal bead where suspended ceiling meets gypsum board finish at underside of module platform at each end. Caulk joint with acrylic sealant. Submit shop drawing for review.

.5 Construct attic access panels with a 38 x 140 mm wood frame and 3 layers of 50 mm rigid type 4 polystyrene insulation glued together. Provide perimeter metal J-bead at opening in gypsum board sub-ceiling at underside of roof truss. Attic access panel width to suit roof truss spacing and 900 mm in length. Frame opening between trusses to accommodate the access panel. Allow tolerance in access panel frame to permit easy lifting of panel in opening. Finish bottom of attic access panel with 15.9 mm plywood. Access panel to rest on metal J-Bead frame. Provide weather stripping sponge tape applied to top of metal bead to air seal opening.

.6 Paint plywood platform and attic access surfaces with sealer and two coats of low VOC porch and floor enamel.

.7 Coordinate exact location of ceiling access hatch and framed ceiling/platform module with electrical and mechanical subtrades for interferance of electrical fixtures, wiring, ducts etc. Move interfering duct to one side of corridor.

.8 Metal access hatch: Maxum Metal Van-Met Model NDB fabricated with a galvanized 1.6 mm steel frame with drywall bead taping flange, 2 mm steel door with concealed galvanized spring hinges to allow the door panel to open 175°, 3 - 6 mm allen key cam locks and electrostatically sprayed offwhite prime coat. Submit shop drawing for review.

.9 Install metal access hatch in accordance with manufacturer's instructions. Frame ceiling platform to Section 06 01 11 and NBCC 2010 Section 9.

.9 Drawings
- A-900 - Finishes Plan Basement
- A-901 - Finishes Plan Ground Floor
- A-902 - Finishes Plan Second Floor, Administration Area & Parole Offices
- A-903 - Finishes Plan Typical Residential Pod

Legend:
(24) **Delete: "**Vinyl Sheet Flooring 2" in Legend of the above noted drawings.

(25) **Clarification:** "Vinyl Flooring" and "Vinyl Sheet Flooring 1" are specified in Section 09 65 18 para. 2.1.1 and represents two different colour schemes referred to in para. 1.3.2.

Drawing A-902 and A-903 only:
(26) **Delete**: word "Basement" in plan title on lower left corner of sheet.
Drawing A-900 only:

STRUCTURAL

.10 New Drawings:

(27) **Add:** two drawings attached to this addendum:
S-AD-01 Ground Floor Slab Ban Reinforcing Details revised (Ref. Drawing SF-312)
S-AD-02 Typical Stirrups Placement Around Each Column for 400 Deep Slab Band Detail Added (Ref. Drawing SF-312)

.11 Drawing SF-312 - Ground Floor Slab Band Reinforcing Details

(28) **Revise:** slab and shear stirrup reinforcement as per attached drawing S-AD-01.

(29) **Add:** typical stirrup placement around each column for 400 deep slab band detail as per attached addendum sketch S-AD-02.

.12 Drawing SF -204 - Roof Framing Plan

North Pod plywood shething drawing note
(30) **Revise:** 12 mm plywood T&G edge to read 12 mm plywood square edges.

END OF ADDENDUM No 1

Bidding Questions and Answers

The following questions received from bidders are listed for general reference only. Answers provided by PWGSC are intended to direct the bidder to a specific part of the Bid documents area, to answer their questions, or an Addendum Item reference number will be noted to direct the Bidder where changes to the Bid documents are necessary to answer the questions.

.1 Question: The total square feet of the new 50 man living units. This is a new building being built correct?
Answer: See drawing A-002.

.2 Question: Could you please provide specification for the Air Barrier and Brick Cladding as shown in the A-003 wall legend?

Answer: The information on air barriers and brick is in the specification. Wall Type WT-1 Air barrier membrane on concrete wall is specified in section 07 11 26 (spray applied waterproofing) Wall Type WT-4 Air barrier is sheathing paper on stud wall specified in Section 06 10 11. Brick is specified in Section 04 04 99 Masonry.
See Addendum Item (12) for clarification in membrane terminology.

.3 Question: Sheet A500 wall section 1 and 2 is showing spray foam insulation and ventilation baffles in the roof attic. Please provide specification and R Value.

Answer: Wall sections on A500 do not indicate any spray foam insulation. See Drawing A-502 Detail 2/500/501 and Specification Section 072116 Blanket Insulation for blown in mineral fibre insulation in attic space and RSI value. The drawing and specification use RSI which is international metric system of units instead of R-value.

.4 Question:
a) Request for products approval – Valves, Boilers and fin tubed radiation heaters.
b) Request for products approval – Specification Section 072116 Blanket Insulation
c) Request for products approval – Curtain Wall System

Answer: Bid as per specification. It is the supplier's responsibility to ensure the product supplied complies with the specification. Products that conform to the specification performance or referenced standards will be considered acceptable for the project.

.5 Question: In Sheet A-500 wall sections 1 and 2, sheet A-501 detail 2 – The detail shows the GWB ceiling to be in supported by metal suspension system. In Sheet A-600 and A-601, the details 3 and 1 is showing the GWB ceiling to be supported by wood frame. Which one is correct?

Answer: Both are correct.

.6 Question: Sheet A400: In the stairs No. 1, 2 and 3 it shows PTN-4 pointed to basement walls. In the enlarge stair drawing A420 and A421, there is no PTN-4 pointed on the basement wall.

Answer: Drawing A420 and A421 shows stair plan and sections. Refer to A400 for wall types and paint numbers. See addendum item (17)

.7 Question: Sheet A400: The basement exterior concrete wall is showing PTN-4 and WT-5. Are all basement concrete wall to be provided with PTN-4?

Answer: See 2/A300 South Elevation. For above grade, basement exterior wall to be WT-6 (Corrugated metal panel). For below grade, basement exterior wall to be WT-5. On interior side of basement concrete wall is PTN-4 as indicated. See addendum item (17)

.8 Question: Is this unit an extension for an existing facility?

Answer: Unit is a stand alone building inside Ferndale Institution.

.9 Question: Has this unit got its own separate entrance and fence?

Answer: Unit construction site will be accessed via Stave Lake Road. Ferndale Institution is not fenced.

.10 Question: Is driving in and out of the new construction could be done without going through the existing facility?

Answer: No.

.11 Question: We had a question from a trade for Spec section 074456 Fibre Cement panel System. Sec 2.1 Materials calls for 455 x 1818 mm Fibre Cement Panels and Drawing A-300 calls for 1630 x 455 Fibre Cement Exterior Cladding. Please clarify the size to be priced.
Answer: See Addendum Item (16)

.12 Question: Sheet SF201 grid A has indicated retaining wall see civil drawings. The civil drawings did not reflect retaining wall. Please provide retaining wall schedule.
Answer: Retaining walls are deleted. See Addendum Item (15).

.13 Question: We have downloaded drawings on this job from the Merx website and noticed that the scalings are somewhat inconsistent with what have been shown on the drawings. Is there any other PDF drawing version that we can get access to just so our subcontractors might be able to provide more competitive pricings?
Answer: More Info required from bidder.

.14 Question: Could you also provide manufacturer for the Corrugated Cladding in Section 074613.
Answer: Bid as per specification section.

.15 Question: We are bidding the Ferndale product but could use some guidance on what siding type it is you are looking for. Bird has mentioned Prodema and Swiss pearl but neither match the specs which seem to ask for a “cut-stone” 6 foot board with 4 lap sides. This sounds more like Nichiha but we are not sure
Answer: See Addendum Item (5).

.16 Question: We respectfully submit for your review and approval of the following five (5) CertainTeed Gypsum & Insulation Canada products for use in the above named project. Listed below in bold italic are the products that we would like to submit for approval.
Answer: Bid as per standards in specification section.

.17 Question: In light of the fact there is no proposed manufacturers for the curtain walls in the specs for the above mentioned project, we request to use Columbia Aluminum Products 600D thermally broken curtain wall system (2 1/2" by 4" to 8 1/2" backframe) for the curtain wall frames involved in this project. Please find attached manufacturer's documentation.
Answer: Curtain wall product must meet the performance requirements specified in Section 08 44 13 clause 2.1.2. Bid as per specification.

.18 Question: Related Work is referring to Section 07 11 13 Bituminous Damproofing. This section does not Exist.
Answer: See addendum Item (3).

.19 Question: Sheet A401 and A403. Stair No. 2 and No. 3 has indicated Superlite 11-XL 60 Minutes Fire Resistive Glazing Saftfirst. However, in the enlarge drawing sheet A421, there is no indication of the glazing. Please clarify and provide elevation or detail. Is the glazing in PS frame?
Answer: See addendum item (19)

.20 Question: Section 08 33 14 Rolling Counter Door and Section 08 33 36 Side Coiling Counter Door. The door schedule has only indicated Rolling Shutter in Room 116A Canteen. Could you please clarify where the section 08 33 36 applies?

Answer: See Door Schedule door 120A. Note: this side coiling door is being deleted. See addendum items (20), (21) & (22).

.21 Question: Is there a spec for the vinyl flooring, I see sheet vinyl flooring and slip resistent but not one for vinyl flooring as per finish legend.

Answer: See Addendum Item (24) & (25).

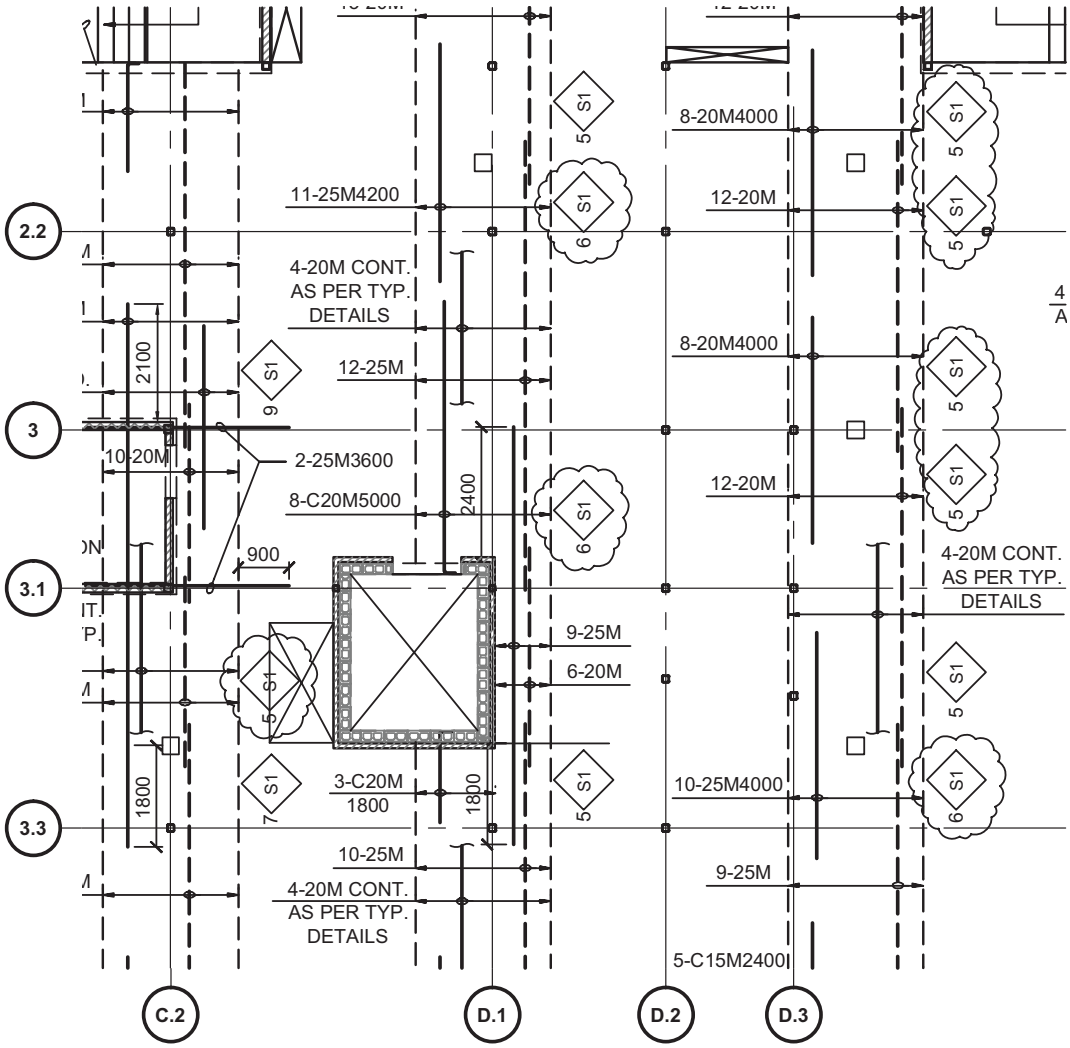
.22 Question: Section 23.52.00 Page 4 Clause 2.2.2.5 (Boiler Control) - "The boiler control shall be built in complete with full outdoor reset, multiple load control with relays for four pumps, variable speed signal for system pump or air handler, clear constantly bright LCD display providing English information, and serial port for software upgrades. The boiler shall offer internal multiple boiler staging and rotation control, for management of up to 24 boilers. The boiler control shall be able to accept an external 0-10VDC or 4-20mA input signal." This seems to duplicate the DDC control requirements as the points requirements ask us to control the system pump, circulation pumps, boiler on/off and boiler discharge temperature set point. Can you please clarify what the intent of the DDC is for the boilers? If the packaged boiler controls is intended to control the items described above, then we would recommend adding a BACnet/IP or BACnet/MSTP protocol connection to the boiler equipment specification so that the DDC system can monitor the boiler package.

Answer: See Addendum Items (7), (8) & (9)

.23 Question: Section 25.90.11 Page 3 Clause 3.1.3.10 and Page 4 Clause 3.1.4.11 - "Provide all field wiring including power wiring from disconnect to ASD's and to motor terminal." Power wiring conduit is typically a DIV26 item. From the equipment specifications, most of the equipment should be coming with packaged ASD's. Please clarify if this clause DIV26.

Answer: See Addendum Items (10) & (11).

END OF Q & A



SLAB BAND SHEAR STIRRUPS SCHEDULE

S1 DENOTES 15M@175 O/C STIRRUPS 6 LEGS

REFER TO TYP. DETAIL ON DWG. SF102 FORSTIRRUP PLACEMENT, I.E. CENTER TWO STIRRUPS PLACED AT COLUMN

11568

project title / titre du projet **FERNDALE INSTITUTION** **33737 DEWDNEY TRUNK ROAD** **MISSION, B.C.**	drawing title / titre du dessin **GROUND FLOOR SLAB BAND REINFORCING DETAILS REVISED (XREF. DWG. S312)**

Public Works and Government Services Canada / Travaux publics et Services gouvernementaux Canada

REAL PROPERTY SERVICES
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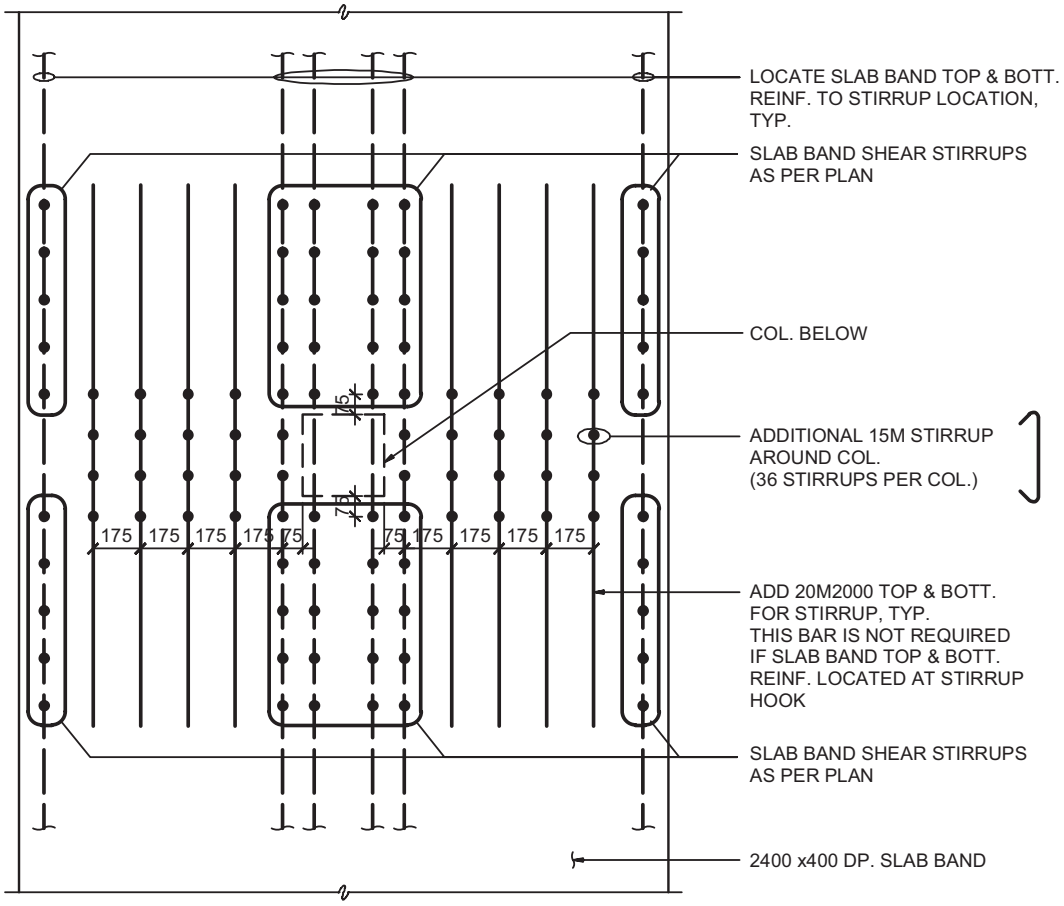
designed by / concu par: SZ	drawn by / dessine par: LH	scale / echelle: N.T.S.	date / date: 2012-09-12
approved by / approuve par: PL		project no. / projet no.: R 044494.001	
PWGSC Project Manager / Administrateur de Projets TPSGC: Tony Tang		sheet / feuille: **S-AD-01**	

A – 8.5x11



TYPICAL STIRRUPS PLACEMENT AROUND EACH COLUMN FOR 400 DEEP SLAB BAND

1: 20 (5 COLUMN LOCATIONS IN TOTAL)

SLAB BAND REINFORCEMENT NOT COMPLETELY SHOWN FOR CLARITY, SEE PLAN FOR REINFORCEMENT

11568

project title / titre du projet **FERNDALE INSTITUTION** **33737 DEWDNEY TRUNK ROAD** **MISSION, B.C.**	drawing title / titre du dessin **TYPICAL STIRRUPS PLACEMENT AROUND EACH COLUMN FOR 400 DEEP SLAB BAND DETAIL ADDED (XREF. DWG. S312)**

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A – 8.5x11