



RETURN BIDS TO:
RETOURNER LES SOUMISSIONS À:
Public Works and Government Services Canada
ATB Place North Tower
10025 Jasper Ave./10025 ave. Jasper
5th floor/5e étage
Edmonton
Alberta
T5J 1S6
Bid Fax: (780) 497-3510

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

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

Issuing Office - Bureau de distribution
Public Works and Government Services Canada
ATB Place North Tower
10025 Jasper Ave./10025 ave Jasper
5th floor/5e étage
Edmonton
Alberta
T5J 1S6

Title - Sujet Brandon Crop Services Facility	
Solicitation No. - N° de l'invitation ET025-170559/A	Amendment No. - N° modif. 002
Client Reference No. - N° de référence du client AAFC ET025-170559	Date 2016-07-29
GETS Reference No. - N° de référence de SEAG PW-\$PWU-107-10807	
File No. - N° de dossier PWU-6-39085 (107)	CCC No./N° CCC - FMS No./N° VME
Solicitation Closes - L'invitation prend fin at - à 02:00 PM on - le 2016-08-08	
F.O.B. - F.A.B. Plant-Usine: <input type="checkbox"/> Destination: <input checked="" type="checkbox"/> Other-Autre: <input type="checkbox"/>	
Address Enquiries to: - Adresser toutes questions à: Anthony, Mary	Buyer Id - Id de l'acheteur pwu107
Telephone No. - N° de téléphone (780) 237-7582 ()	FAX No. - N° de FAX (780) 497-3510
Destination - of Goods, Services, and Construction: Destination - des biens, services et construction: Brandon Research Centre Grande Valley Road Brandon, Manitoba R7A 5Y3 CANADA	

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

This Addendum 002 has been raised to extend the solicitation closing date, respond to Requests for Equivalent Product for consideration and respond to questions from potential bidders:

REVISED CLOSING DATE TO: 02:00 PM on 2016-08-08

If your bid has already been forwarded and you wish to revise the same, this revision should reach the Bid Receiving Unit identified on Page 1 before the closing date.

Part 1 General

1.1 ADDENDUM FORM

- .1 This Addendum forms part of the Contract Documents and modifies the Bidding Documents dated 08 June 2016.
- .2 Acknowledge receipt of this Addendum in the space provided in the Bid Form. Failure to do so may disqualify the Bidder at the Owner's discretion.

1.2 CHANGES TO DRAWINGS

- .1 DRAWING A10 – REVISED ROOM FINISH SCHEDULE, WINDOW AND DOOR TYPES, DOOR SCHEDULE AND DETAILS
 - .1 **REVISE** items shown within revision clouds on attached drawing sheet A10.

1.3 CHANGES TO THE PROJECT MANUAL

- .1 SECTION 08 71 00 – DOOR HARDWARE
 - .1 **REPLACE** previously issued Section with attached Section 08 71 00.

Building 111, Brandon Research Centre
 Issued for Construction 08 June 2016
 Project No. R.076331

Section 08 71 00
 DOOR HARDWARE

Part 1 General

1.1 REFERENCES

- .1 **American National Standards Institute (ANSI) / Builders Hardware Manufacturers Association (BHMA)**
 - .1 **ANSI A117.1-2009, Standard for Accessible and Usable Buildings.**
 - .2 **ANSI/BHMA A156.1-2000, American National Standard for Butts and Hinges.**
 - .3 **ANSI/BHMA A156.2-2003, Bored and Preassembled Locks and Latches.**
 - .4 **ANSI/BHMA A156.4-2000, Door Controls - Closers.**
 - .5 **ANSI/BHMA A156.5-2001, Auxiliary Locks and Associated Products.**
 - .6 **ANSI/BHMA A156.6-2010, Architectural Door Trim.**
 - .7 **ANSI/BHMA A156.13-2002, Mortise Locks and Latches Series 1000.**
 - .8 **ANSI/BHMA A156.16-2002, Auxiliary Hardware.**
 - .9 **ANSI/BHMA A156.19-2002, Power Assist and Low Energy Power - Operated Doors.**
 - .10 **ANSI/BHMA A156.31-2013, Electric Strikes and Frame Mounted Actuators.**
 - .11 **ANSI/BHMA A156.115W-2006 – Hardware Preparations in Wood Doors.**
- .2 **ASTM International**

- .1 ASTM E283-04 (2012), Determining Rate of Air Leakage Through Exterior Windows, Curtain Walls, and Doors Under Specified Pressure Differences Across the Specimen
- .3 Canadian Standards Association (CSA)
 - .1 CSA B651-12 – Accessible Design for the Built Environment.
- .4 Canadian Steel Door and Frame Manufacturers' Association (CSDMA)
 - .1 CSDMA Recommended Dimensional Standards for Commercial Steel Doors and Frames - 2009.
- .5 National Fire Protection Association (NFPA)
 - .1 NFPA (Fire) 80 - Standard for Fire Doors and Other Opening Protectives, 2007 edition.
 - .2 NFPA (Fire) 252 - Fire Tests of Door Assemblies, 2012 edition.

1.2 SUBMITTALS

- .1 Submit in accordance with Section 01 33 00 - Submittal Procedures.
- .2 Product Data:
 - .1 Submit manufacturer's instructions, printed product literature and data sheets for door hardware; include product characteristics, performance criteria, physical size, finish, and limitations.
- .3 Samples:
 - .1 Submit for review and acceptance of each unit.
 - .2 Samples will be returned for inclusion into work.
 - .3 Identify each sample by label indicating applicable specification hardware schedule set number, brand name and number, finish, and hardware set number.
- .4 Hardware List:
 - .1 Submit contract hardware list.
 - .2 Indicate specified hardware, including make, model, material, function, size, finish, and other pertinent information.
- .5 Manufacturer's Instructions: Submit manufacturer's installation instructions.
- .6 Certificates: Product certificates signed by manufacturer certifying materials comply with specified performance characteristics and criteria and physical requirements.

1.3 CLOSEOUT SUBMITTALS

- .1 Submit in accordance with Section 01 78 00 - Closeout Submittals.
- .2 Operation and Maintenance Data: Submit operation and maintenance data for door hardware for incorporation into manual.

1.4 QUALITY ASSURANCE

- .1 Regulatory Requirements:
 - .1 Hardware for doors in fire separations and exit doors certified by a Canadian Certification Organization accredited by Standards Council of Canada.

1.5 DELIVERY, STORAGE, AND HANDLING

- .1 Deliver, store, and handle materials in accordance with Section 01 61 00 - Common Product Requirements and with manufacturer's written instructions.
- .2 Deliver materials to site in original factory packaging, labelled with manufacturer's name and address.
- .3 Package items of hardware including fastenings, separately or in like groups of hardware, label each package as to item definition and location.
- .4 Storage and Handling Requirements:

- .1 Store materials indoors in dry location and in accordance with manufacturer's recommendations in clean, well-ventilated area.
- .2 Store and protect door hardware from nicks, scratches, and blemishes.
- .3 Protect prefinished surfaces with wrapping or strippable coating.
- .4 Replace defective or damaged materials with new.

Part 2 Products

2.1 HARDWARE ITEMS

- .1 Use one manufacturer's products only for similar items.

2.2 DOOR HARDWARE

.1 Locks and latches:

- .1 Mortise locks and latches: To BHMA A156.13, series 1000 mortise lock, Grade 1.

- .1 *Case: Wrought steel, zinc dichromate plated, 3 mm thick.*

- .2 *Latchbolt: Minimum 19 mm throw.*

- .3 *Deadbolt: Minimum 25 mm throw.*

- .4 *Normal strikes: Box type, lip projection not beyond jamb.*

- .5 *Function:*

- .1 Storeroom deadbolt: Latchbolt retracted by key outside and knob/level inside; deadbolt operated by key outside and thumbturn inside; outside knob/lever rigid at all times; anti-panic operation; deadlocking latchbolt.

- .2 Intruder deadbolt lock: Latchbolt retracted by lever either side unless outside knob/lever is locked by key; deadbolt operated by key either side; when deadbolt projected, outside lever is automatically locked; key retraction of deadbolt unlocks outside lever; anti-panic operation – operating inside lever retracts deadbolt and latchbolt simultaneously, automatically unlocking outside lever; deadlocking latchbolt.

- .2 Electric strikes: To ANSI/BHMA A156.31, Grade 1; heavy duty stainless steel.

- .1 Conforms to CAN4-S104.

- .2 Static strength: 1320 kg (3000 lbs).

- .3 Dynamic strength: 475 N-m (350 ft-lbs).

- .3 Mortise keyswitch: To support electric lock control, momentary SPDT switch, bi-colour LED, 5 amp rated plunger switch.

- .4 Hinges: To BHMA A156.1, five-knuckle, standard weight, 0.134 gauge steel.

.5 Cylinders:

- .1 To BHMA A156.5, solid brass, 6 pin, to suit mortise lock. Finish: To match existing.

- .6 Door closers: To BHMA A156.4, Grade 1, and ANSI A117.1, rack and pinion operation, cast aluminum body, adjustable backcheck intensity.

- .1 *Mounting: As indicated in Schedule.*

.7 Door operators:

- .1 Power assist and low energy power operated doors: To BHMA A156.19, ANSI BHMA A156.4, and ANSI A117.1, rack and pinion design contained within cast aluminum housing, 170° swing.

- .1 *Door switch: SPDT, UL listed, 15 amp at 120 VAC, stainless steel plate with blue letters.*

- .8 Door bottom: Aluminum case with movable drop bar seal. Seal actuated by plunger contacting jamb. Aluminum with sponge neoprene insert.

- .9 Floor stops: To BHMA A156.16, solid cast brass, heavy duty casting with solid pin, complete with rubber bumper.

- .10 **Wall stops: Brass, bronze, and stainless steel with rubber bumper, 63 mm diameter, 19 mm projection, concealed mounting.**
 - .1 **Bumper: Convex or concave as indicated in schedule.**
- .11 **Flush bolts: To ANSI/BHMA A156.16; cast brass, 19 mm bolt throw, 19 mm backset.**
 - .1 **Dust proof strike: Brass; compatible with flush bolt; adjustable height, barrel 22 mm diameter x 51 mm depth.**
- .12 **Gasketing:**
 - .1 **Type 1:**
 - .1 ***Extruded high-temperature silicone, adhesive backed.***
 - .2 ***Air infiltration: To ASTM E283, maximum 0.9 cfm/foot.***
 - .2 **Type 2:**
 - .1 ***Extruded tempered aluminum with black sponge silicone insert.***
- .13 **Astragal: Extruded clear anodized aluminum with black sponge neoprene insert.**
- .14 **Viewers: To ANSI A156.16 L03221/L03171, brass with bright chrome finish, UL 90 minute fire rating, heavy duty privacy cover, 190° viewing field.**
- .15 **Architectural door trim: To BHMA A156.6.**
 - .1 **Door protection plates: Kick plate type 1.27 mm thick stainless steel, No. 4 finish.**

2.3 FASTENINGS

- .1 **Use only fasteners provided by manufacturer. Failure to comply may void warranties and applicable licensed labels.**
- .2 **Supply screws, bolts, expansion shields and other fastening devices required for satisfactory installation and operation of hardware.**
- .3 **Exposed fastening devices to match finish of hardware.**
- .4 **Where pull is scheduled on one side of door and push plate on other side, supply fastening devices, and install so pull can be secured through door from reverse side. Install push plate to cover fasteners.**
- .5 **Use fasteners compatible with material through which they pass.**

2.4 KEYING

- .1 **Refer to Door Hardware Schedule.**
- .2 **Contact Departmental Representative for Keying Strategy.**
- .3 **Provide keys in duplicate for every lock.**
- .4 **Provide four master keys for each master key group.**
- .5 **Stamp keying code numbers on keys and cylinders.**

Part 3 Execution

3.1 INSTALLATION

- .1 **Manufacturer's Instructions: Comply with manufacturer's written recommendations, including product technical bulletins, product catalogue installation instructions, product carton installation instructions, and data sheets.**
- .2 **Supply door and frame manufacturers with complete instructions and templates for preparation of their work to receive hardware.**
- .3 **Supply manufacturers' instructions for proper installation of each hardware component.**
- .4 **Install hardware to standard hardware location dimensions in accordance with CSDFMA Canadian Metric Guide for Steel Doors and Frames (Modular Construction) and CSA B651.**

- .5 Where doorstop contacts door pulls, mount stop to strike bottom of pull.
- .6 Use only manufacturer's supplied fasteners.
 - .1 Use of "quick" type fasteners, unless specifically supplied by manufacturer, is unacceptable.
- .7 Remove temporary cores when directed by Departmental Representative.
 - .1 Install permanent cores and ensure locks operate correctly.

3.2 ADJUSTING

- .1 Adjust door hardware, operators, closures and controls for optimum, smooth operating condition, safety and for weather tight closure.
- .2 Lubricate hardware, operating equipment and other moving parts.
- .3 Adjust door hardware to ensure tight fit at contact points with frames.

3.3 CLEANING

- .1 Progress Cleaning: in accordance with Section 01 74 11 - Cleaning.
 - .1 Leave Work area clean at end of each day.
 - .2 Clean hardware with damp rag and approved non-abrasive cleaner, and polish hardware in accordance with manufacturer's instructions.
 - .3 Remove protective material from hardware items where present.
 - .4 Final Cleaning: Upon completion remove surplus materials, rubbish, tools and equipment in accordance with Section 01 74 11 - Cleaning.
- .2 Waste Management: Remove waste materials in accordance with Section 01 74 21 - Construction/Demolition Waste Management and Disposal.

3.4 PROTECTION

- .1 Protect installed products and components from damage during construction.
- .2 Repair damage to adjacent materials caused by door hardware installation.

3.5 SCHEDULE

Set: 1.0 – Doors D100a

3 Hinge	TA2314 NRP 4-1/2" x 4"	US26D	MK
1 Storeroom Lock	28 10G04 LL	US26D	SA
1 Electric Strike	1006CLB-LBM	630	HS
1 Strike Latch Guard	150		HS
1 Concealed Overhead Stop	6-X36	630	RF
1 Door Operator	6020	689	NO
1 Kick Plate	K1050 12"	US32D	RO
1 Threshold	172A		PE
3 Gasketing	290AS		PE
1 Sweep	315CN		PE
1 Actuator	639		NO
1 Guide Rail with Actuator	Curran CE-810-H-615 Manitoba	AL	00
1 Card Reader	By Others		00
1 Request to Exit (if required)	By Others		00
1 Power Supply	By Others		00

Notes: Use 'D' drop plate with operator if required. Exterior actuator normally disabled. Swiping valid card will release the electric strike and enable the outside actuator. Inside actuator, and outside actuator when enabled will release the electric

strike and power open the door.

Set: 2.0 – Door 100b

3 Hinge	TA2714 NRP 4-1/2" x 4"	US26D	MK
1 Classroom Lock	28 10G37 LL	US26D	SA
1 Door Operator	6020	689	NO
1 Kick Plate	K1050 12"	US32D	RO
1 Wall Stop	406	US32D	RO
2 Actuator	639		NO

Set: 3.0 – Doors D101a, D103c and D106c

3 Hinge	TA2314 NRP 4-1/2" x 4"	US26D	MK
1 Storeroom Lock	28 10G04 LL	US26D	SA
1 Electric Strike	1006CLB-LBM	630	HS
1 Concealed Overhead Stop	6-X36	630	RF
1 Door Closer	1431 P9	EN	SA
1 Kick Plate	K1050 12"	US32D	RO
1 Threshold	172A		PE
1 Gasketing	2891AS		PE
2 Gasketing	290AS		PE
1 Sweep	315CN		PE
1 Latch Protector	320CXL	US32D	RO

Mount 2891AS gasketing to head of frame. Mount closer to gasketing.

Set: 4.0 – Door D101b

3 Hinge	TA2714 4-1/2" x 4"	US26D	MK
1 Passage Set	28 10U15 LL	US26D	SA
1 Door Closer	1431 PS	EN	SA
1 Kick Plate	K1050 12"	US32D	RO

Set: 5.0 – Door D102a and D103b

8 Hinge	TA2714 4-1/2" x 4"	US26D	MK
2 Pull Plate	107x70C	US32D	RO
2 Push Plate	70C	US32D	RO
2 Concealed Overhead Stop	6-X36	630	RF
2 Door Operator	6020	689	NO
4 Kick Plate	K1050 12"	US32D	RO
2 Motion Sensor	663		NO

Notes: Motion sensor to be used on both sides of door. Approaching door from either side will open both doors. Use 'D' drop plate for operators if required.

Set: 6.0 – Door D103a

5 Hinge	TA2314 NRP 4-1/2" x 4"	US26D	MK
1 Hinge	TA2314 CC4 NRP 4-1/2" x 4"	US26D	MK
2 Flush Bolt	555	US26D	RO
1 Storeroom Lock	28 10G04 LL	US26D	SA
1 Electric Strike	1006CLB-LBM	630	HS
2 Concealed Overhead Stop	6-X36	630	RF
1 Door Closer	1431 P9	EN	SA
2 Kick Plate	K1050 12"	US32D	RO
1 Threshold	172A		PE
1 Gasketing	2891AS		PE
2 Gasketing	290AS		PE
2 Sweep	315CN		PE
1 Astragal	By Door Supplier		00
1 Card Reader	By Others		00
1 Request to Exit (if required)	By Others		00
1 Power Supply	By Others		00

Notes: Swiping valid credential will release the electric strike. Mount 2891AS gasketing to head of frame. Mount closer to gasketing.

Set: 7.0 – Door D106b

3 Hinge	TA2314 NRP 4-1/2" x 4"	US26D	MK
1 Storeroom Lock	28 10G04 LL	US26D	SA
1 Electric Strike	1006CLB-LBM	630	HS
1 Strike Latch Guard	150		HS
1 Concealed Overhead Stop	6-X36	630	RF
1 Kick Plate	K1050 12"	US32D	RO
1 Threshold	172A		PE
3 Gasketing	290AS		PE
1 Sweep	315CN		PE
1 Card Reader	By Others		00
1 Request to Exit (if required)	By Others		00
1 Power Supply	By Others		00

Set: 8.0 – Door D104

3 Hinge	TA2714 4-1/2" x 4"	US26D	MK
1 Classroom Lock	28 10G37 LL	US26D	SA
1 Door Closer	1431 O	EN	SA

2 Kick Plate	K1050 12"	US32D	RO
3 Gasketing	290AS		PE
1 Gasketing	S88BL		PE
1 Door Bottom	4131CRL		PE

Set: 9.0 – Doors D105a and D106a

All Hardware by Door Supplier

Set: 10.0 – Door D107

3 Hinge	TA2714 4-1/2" x 4"	US26D	MK
1 Classroom Lock	28 10G37 LL	US26D	SA
1 Door Closer	1431 O	EN	SA
1 Kick Plate	K1050 12"	US32D	RO
1 Wall Stop	406	US32D	RO
3 Gasketing	290AS		PE
1 Gasketing	S88BL		PE
1 Door Bottom	4131CRL		PE

Set: 11.0 – Doors D108 and D109

3 Hinge	TA2714 4-1/2" x 4"	US26D	MK
1 Pull Plate	107x70C	US32D	RO
1 Push Plate	70C	US32D	RO
1 Automatic Operator	5710	689	NO
1 Kick Plate	K1050 12"	US32D	RO
1 Wall Stop	406	US32D	RO
2 Actuator	639		NO

Notes: Pressing actuator on either side of door will power open the door.

Set: 12.0 – Door D110a

6 Hinge	TA2314 NRP 4-1/2" x 4"	US26D	MK
2 Flush Bolt	555	US26D	RO
1 Storeroom Lock	28 10G04 LL	US26D	SA
2 Concealed Overhead Stop	6-X36	630	RF
1 Door Closer	1431 P9	EN	SA
2 Kick Plate	K1050 12"	US32D	RO
1 Threshold	172A		PE
1 Gasketing	2891AS		PE
2 Gasketing	290AS		PE
2 Sweep	315CN		PE
1 Astragal	By Door Supplier		00

Notes: Mount 2891AS gasketing to head of frame. Mount closer to gasketing.

Set: 13.0 – Door D110b

3 Hinge	TA2714 4-1/2" x 4"	US26D	MK
1 Storeroom Lock	28 10G04 LL	US26D	SA
1 Door Closer	1431 O	EN	SA
1 Kick Plate	K1050 12"	US32D	RO
1 Wall Stop	406	US32D	RO

END OF SECTION

Part 2 General

ADDENDUM FORM

This Addendum forms part of the Contract Documents and modifies the Bidding Documents dated 08 June 2016. Acknowledge receipt of this Addendum in the space provided in the Bid Form. Failure to do so may disqualify the Bidder at the Owner's discretion.

CHANGES TO PROJECT MANUAL

SECTION 06 40 00 – ARCHITECTURAL WOODWORK

ADD Items as follows:

- .1 2.2: **HARDWARE:** All hardware to BHMA A156.9, brushed nickel or stainless steel finish.
- .2 2.2.1: Drawer slides: Full extension side-mounted with ball bearings, zinc finish.
- .3 2.2.2: Hinges: European-style hinges.
- .4 2.2.3: Pulls: Metal, contemporary closed end bar pull.
Mounting: 128 mm centre-to-centre screw attachment.
Overall dimension: 170 mm long, 40 mm projection from mounting surface.
Confirm proposed product with Departmental Representative.
- .5 2.2.4: Catches: Type I – magnetic catch.

APPROVAL OF PRODUCTS/SYSTEMS

SECTION 06 40 00 – ARCHITECTURAL WOODWORK

Items proposed for hardware for architectural woodwork - these are all acceptable:

- .6 Drawer slides: Blum 560H5500B.
- .7 Door hinges: Blum 75T1580.
- .8 Door hinge plate: Blum 174H7100E.

Colour and finish choices for plastic laminate are to be confirmed by Departmental Representative during construction phase.

SECTION 08 71 00 – DOOR HARDWARE

Item 2.2.7.1 – Door Operators – Power assist and low energy power operated doors.

- .9 These products are acceptable for use in this project:
Horton 4100LE HD operator – for door hardware sets 1, 2, and 5.
Horton 7100 operator – for door hardware set 11.

CLARIFICATION OF PRODUCTS/SYSTEMS

DRAWING A3 - WALL TYPES

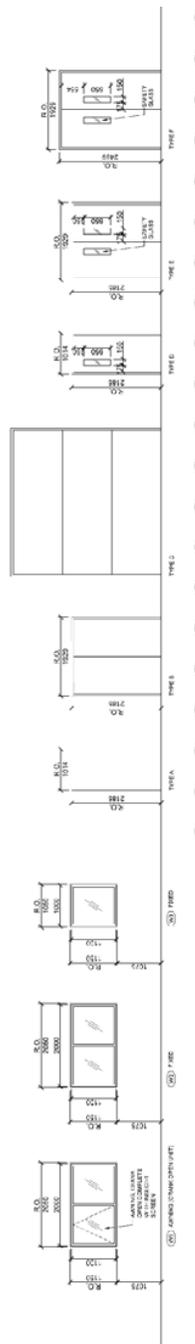
CLARIFICATION: Air/vapour barrier is not part of the exterior wall assemblies. The metal liner is intended to act as a vapour barrier when installed with butyl sealant on the meeting edges.

ROOM FINISH SCHEDULE

R.M. NO.	R.M. NAME	FLOOR				WALLS				CEILING			
		W/FRSH	W/WH	RAFF	FINSH	FINSH	RAFF	FINSH	WEST	FINSH	WEST	FINSH	WEST
U100	LABORATORY	FR	FR	FR	FR	FR	FR	FR	FR	FR	FR	FR	FR
U101	RESEARCH/PROCESSING AREA	FR	FR	FR	FR	FR	FR	FR	FR	FR	FR	FR	FR
U102	CLEAN ROOM	FR	FR	FR	FR	FR	FR	FR	FR	FR	FR	FR	FR
U103	PLANT ROOM	FR	FR	FR	FR	FR	FR	FR	FR	FR	FR	FR	FR
U104	WORKING ROOM	FR	FR	FR	FR	FR	FR	FR	FR	FR	FR	FR	FR
U105	LABOR ROOM	FR	FR	FR	FR	FR	FR	FR	FR	FR	FR	FR	FR
U106	LABOR ROOM	FR	FR	FR	FR	FR	FR	FR	FR	FR	FR	FR	FR
U107	LABOR ROOM	FR	FR	FR	FR	FR	FR	FR	FR	FR	FR	FR	FR
U108	LABOR ROOM	FR	FR	FR	FR	FR	FR	FR	FR	FR	FR	FR	FR
U109	LABOR ROOM	FR	FR	FR	FR	FR	FR	FR	FR	FR	FR	FR	FR
U110	LABOR ROOM	FR	FR	FR	FR	FR	FR	FR	FR	FR	FR	FR	FR

1 ROOM FINISH SCHEDULE

AND 150



2 WINDOW AND DOOR TYPE GENERAL NOTES

- WINDOWS OF ALL SIZES TO ALLOW FOR FINE DETAIL WORK AND QUALITY FRAME, REFER TO SPECIFICATION MANUAL.
- FOR DOOR HARDWARE REFER TO SPECIFICATION.
- ALL WINDOW FRAME IN EXTERIOR ARE TO BE FULL GLASS UNGLAZED UNITS.
- WINDSHIELD DOORS, WINDSHIELD AND SWIFT CHAIR EXTERIOR DOORS.
- EQUIPPED WITH PATENT'S DOOR OPERATOR.
- INSTALLATION OF HARDWARE HARDWARE.

2 WINDOW AND DOOR TYPES & DOOR SCHEDULE

AND 150

DOOR SCHEDULE

DESCRIPTION	TYPE	LOCATION	TYPE	FRAME	GLASS	FINISH	NOTES
U100A	DOOR	LABOR ROOM 100	PT	PT	PT	PT	NO GLASS, THERMALLY BROKEN FRAME
U100B	DOOR	LABOR ROOM 100	PT	PT	PT	PT	NO GLASS, THERMALLY BROKEN FRAME
U101A	DOOR	LABOR ROOM 101	PT	PT	PT	PT	NO GLASS, THERMALLY BROKEN FRAME
U101B	DOOR	LABOR ROOM 101	PT	PT	PT	PT	NO GLASS, THERMALLY BROKEN FRAME
U102A	DOOR	LABOR ROOM 102	PT	PT	PT	PT	NO GLASS, THERMALLY BROKEN FRAME
U102B	DOOR	LABOR ROOM 102	PT	PT	PT	PT	NO GLASS, THERMALLY BROKEN FRAME
U103A	DOOR	LABOR ROOM 103	PT	PT	PT	PT	NO GLASS, THERMALLY BROKEN FRAME
U103B	DOOR	LABOR ROOM 103	PT	PT	PT	PT	NO GLASS, THERMALLY BROKEN FRAME
U104A	DOOR	LABOR ROOM 104	PT	PT	PT	PT	NO GLASS, THERMALLY BROKEN FRAME
U104B	DOOR	LABOR ROOM 104	PT	PT	PT	PT	NO GLASS, THERMALLY BROKEN FRAME
U105A	DOOR	LABOR ROOM 105	PT	PT	PT	PT	NO GLASS, THERMALLY BROKEN FRAME
U105B	DOOR	LABOR ROOM 105	PT	PT	PT	PT	NO GLASS, THERMALLY BROKEN FRAME
U106A	DOOR	LABOR ROOM 106	PT	PT	PT	PT	NO GLASS, THERMALLY BROKEN FRAME
U106B	DOOR	LABOR ROOM 106	PT	PT	PT	PT	NO GLASS, THERMALLY BROKEN FRAME
U107A	DOOR	LABOR ROOM 107	PT	PT	PT	PT	NO GLASS, THERMALLY BROKEN FRAME
U107B	DOOR	LABOR ROOM 107	PT	PT	PT	PT	NO GLASS, THERMALLY BROKEN FRAME
U108A	DOOR	LABOR ROOM 108	PT	PT	PT	PT	NO GLASS, THERMALLY BROKEN FRAME
U108B	DOOR	LABOR ROOM 108	PT	PT	PT	PT	NO GLASS, THERMALLY BROKEN FRAME
U109A	DOOR	LABOR ROOM 109	PT	PT	PT	PT	NO GLASS, THERMALLY BROKEN FRAME
U109B	DOOR	LABOR ROOM 109	PT	PT	PT	PT	NO GLASS, THERMALLY BROKEN FRAME
U110A	DOOR	LABOR ROOM 110	PT	PT	PT	PT	NO GLASS, THERMALLY BROKEN FRAME
U110B	DOOR	LABOR ROOM 110	PT	PT	PT	PT	NO GLASS, THERMALLY BROKEN FRAME

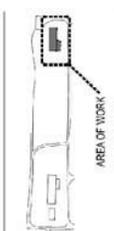


LEGEND

- AD1 - ANTI-UV COATING
- AD2 - ANTI-REFLECTIVE COATING
- AD3 - ANTI-STATIC COATING
- AD4 - ANTI-GRIT COATING
- AD5 - ANTI-GLARE COATING
- AD6 - ANTI-FLAME COATING
- AD7 - ANTI-CORROSION COATING
- AD8 - ANTI-ABRASION COATING
- AD9 - ANTI-IMPACT COATING
- AD10 - ANTI-SCUFF COATING
- AD11 - ANTI-TOUCH COATING
- AD12 - ANTI-ODOR COATING
- AD13 - ANTI-BACTERIAL COATING
- AD14 - ANTI-VIRAL COATING
- AD15 - ANTI-ALLERGEN COATING
- AD16 - ANTI-POLLUTANT COATING
- AD17 - ANTI-NOISE COATING
- AD18 - ANTI-EMISSION COATING
- AD19 - ANTI-EMISSION COATING
- AD20 - ANTI-EMISSION COATING
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- AD49 - ANTI-EMISSION COATING
- AD50 - ANTI-EMISSION COATING

REAL PROPERTY SERVICES
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DO NOT SCALE DRAWINGS

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

AGRICULTURE AND AGRIFOOD CANADA (AAFC)
BRANDON, MANITOBA
2701 GRAND VALLEY ROAD
BRANDON, MANITOBA

BRANDON RESEARCH CENTRE
BUILDING 111 -

Project No. 111-111-111
2701 Grand Valley Road
Brandon, Manitoba
R7S 1A1

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Part 3 General**ADDENDUM FORM**

This Addendum forms part of the Contract Documents and modifies the Bidding Documents dated 08 June 2016. Acknowledge receipt of this Addendum in the space provided in the Bid Form. Failure to do so may disqualify the Bidder at the Owner's discretion.

CLARIFICATION OF PRODUCTS/SYSTEMS

DRAWING A3 – Keynote 5

CLARIFICATION: Mobile Shelving Unites are Not in Contract (NIC), provided by Owner.

SECTION 07 21 00 – BUILDING INSULATION

CONFIRMATION: ITEM 2.2.1 – Semi-ridge batt insulation requirements apply as originally specified; no change to specification for semi-rigid batt insulation is required nor accepted.

Part 4 General**ADDENDUM FORM**

This Addendum forms part of the Contract Documents and modifies the Bidding Documents dated 08 June 2016. Acknowledge receipt of this Addendum in the space provided in the Bid Form. Failure to do so may disqualify the Bidder at the Owner's discretion.

Item No. 1 – Pile Lengths

Reference: Drawing No. S02

- a) Driven pile lengths indicated on drawing to include strand length into grade beam / pile caps for connection of strands into grade beams/ pile caps.

Request 1:

Seeking equal for lighting and emergency lighting.

Response 1:

The submitted Lighting fixtures type 'D' and Exit sign deemed acceptable.

Lighting fixtures Type 'B1' and Type 'B2' not acceptable, to qualify for approved equal, it is required to have CSA label on the lighting cutsheet.

Request 2:

Request for Equal:

Spec. Section	Clause	Specified Product	Proposed Product	Accepted
Drawing M6, R2	MS-1	Chicago Faucets 897-RCF Mop Faucets	Delta Commercial 28C8183 Mop Faucets	
	L-1	American Standard 0954.000.020 Lavatories	Contrac Clayton 4640CHZ Lavatories	
		American Standard 0059.020.020 Shrouds	Contrac 4644CHZ Shrouds	
	U-1	American Standard 6590.501.020 Urinals	Contrac Carlo 4810BHX Urinals	
	WC-1,2	American Standard 2467.100.020 Water Closets	Contrac Cleo 5722BOY/5721BOY Water Closets	

WH-1	Non-Specified Wall Hydrants	Woodford B67 Wall Hydrants	
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Response 2:

No issues with the requested equals.

Question 1:

I have a question regarding fixture Type A.

Can you please confirm how many lumens are required for this fixture? It is not indicated in the part numbers provided.

Answer 1:

18000 Lumens for Lithonia (IBL) and Metalux (HB LED) type of fixtures
20000 Lumens for Philips Bay type of lighting fixtures.

Question 2:

I would like to know, and this is probably a question for the engineer on record, if it would be acceptable to drill the dowels into the grade beam instead of casting them into the grade beam, therefore eliminating the need to drill holes through the formwork.

Alternately, would it be acceptable to use a crank dowel (where the tail is parallel to the formwork until it is bent perpendicular post pour) in place of the dowels specified, in order to achieve the same result.

This is only for the dowels listed as D1 in the schedule.

Answer 2:

Please have the dowels cast into the grade beam, they may bend them as he is asking since they are 10M bars and bend them back after.

Question 3 (Answers in red):

- Existing Sewer and water mains I believe are shown as the wrong size within the drawings. City of Brandon as-builts that I received show we are connecting to a 100mm WM and a 200mm WWS, whereas the bid documents show a 150mm WM and a 150mm WWS.
 - Existing WM and WWS sizes as shown on the drawings were based on information provided by the AAFC Brandon Research Centre, and not City of Brandon.
- Is the sewer service required to be insulated? Drawings show only a cover of 2.2m-2.3m over sewer line, this is required to have 100mm flat style insulation as per City of Brandon Standard Construction Specification.
 - Insulation board may be installed overtop the service for added protection if preferred, but it is not required as per the project specs. Our understanding is that similar sewer services within the AAFC Brandon Research Centre have been installed previously without insulation.
- Parking stall dimensions do not meet city of Brandon spec. They are close but not quite the right size (width of stalls should be 2.74 and 3.96m).
 - Parking stall widths as shown are adequate for the AAFC Brandon Research Centre. If requested by the City of Brandon to meet their requirements, there is room on site to modify as the differences are minimal and the lot itself is gravel.
- Parking lot entranceway has a 21% slope, please confirm this has not been overlooked in the design.
 - Slope is correct. The existing site has a steep grade change downward from north to south, and the south approach was designed to be as steep as possible in order to raise the building site.

Question 4:

Request for Information

ITEM NO.	DOC. REF.	ORIGIN OF REQUEST	DESCRIPTION
1.0	Specs Section 06 40 00, Part 2, 2.1	G.C.	Please provide the preferred colour and finish choices for Plastic Laminate #1 and #2.
2.0	Specs Section 06 40 00, Part 2, 2.2	G.C.	Since there does not appear to be any specs on the drawer slides and door hinges, we propose the following: <ul style="list-style-type: none"> • Drawer slides: Blum 560H5500B • Door hinges: Blum 75T1580 • Door hinge plate: Blum 174H7100E Please advise if this is satisfactory.
3.0	Specs Section 06 40 00, Part 2, 2.2	G.C.	There do not seem to be specifications listed for cabinet pulls. Please advise.
4.0	Bid Drawing 017 S03	G.C.	Please clarify whether gridlines #1 and #8 need to be clearspan and if they can have wind posts in the walls.
5.0	Bid Drawing 007 A3	G.C.	Please clarify whether there will be a requirement for an A/V barrier in the exterior wall as it is not shown in the wall types.
			REASON FOR REQUEST
			Information required for estimating.

Answer 4:

In answer to item No.4 gridlines #1 and #8 will be end wall frames with columns and not clear span frames.

Question 5:

Request for information:

ITEM NO.	DOC. REF.	ORIGIN OF REQUEST	DESCRIPTION
1.0	Specs Section 01 52 00, Part 1, 1.8	G.C.	Please confirm whether security is required after every work day and on holidays for the duration of the project as stated in the specifications.
			REASON FOR REQUEST
			Information required for estimating.

Answer 5:

This is not required.

Question 6:

I am bidding on the upcoming job in Brandon. They want pricing on access control system. So what I need is to find out the kind of system it is. And who would install and service this in Manitoba.

Answer 6:

Access control to match existing and will be tied to exiting building system. Existing access control is Honeywell, it is also indicated in section 28 xx xx.

Question 7 (Answers in red):

1) Please confirm this spec.

Section 26 05 34

2.4 Conduit Fittings

.3 Watertight connectors and couplings for EMT.

.1 Set-screws are not acceptable.

Is this spec intentional, or a carryover from another project?

Watertight connectors will be required in wet areas or outdoor installations only.

2) Is AC90 (BX) Drops permitted in concealed walls for switching and receptacles?

I cannot find any restrictions in the spec's, I assume AC90 is NOT permissible for drops in walls, and that Conduit must be used.

But can we confirm this. If AC90 is not permitted, can that be addressed in a future Addendum.

We have asked for installation of concealed conduits, except in mechanical and electrical rooms. Although AC90 (BX) installation in concealed walls meets code, the design intent is to use AC90 (BX) only for wiring of luminaires recessed in dropped ceilings only.

Clarification can be issued if required.

Question 8:

ITEM NO.	DOC. REF.	ORIGIN OF REQUEST	DESCRIPTION
1.0	Bid Drawing A3, Wall Types		Wall Type 3 in the Wall Types schedule on page A3 doesn't mention the spacing of the metal furring channels. Please advise.
2.0	Bid Drawings, A3, Wall Types		There is no required gauge given for the non-structural metal framing. Please advise.
3.0			We would like to request an extension to this bid as we have not received the expected addendum with several revisions and Monday is a holiday.
			REASON FOR REQUEST
			Information required for estimating.

Answer 8:

1.0 - Spacing of metal furring channels to be determined by Pre-engineered structure manufacturer. Gauges of furring and liner panel is provided in Section 07 46 13.

2.0 - Non-structural metal framing is to comply with ASTM C645, see Section 09 22 16