

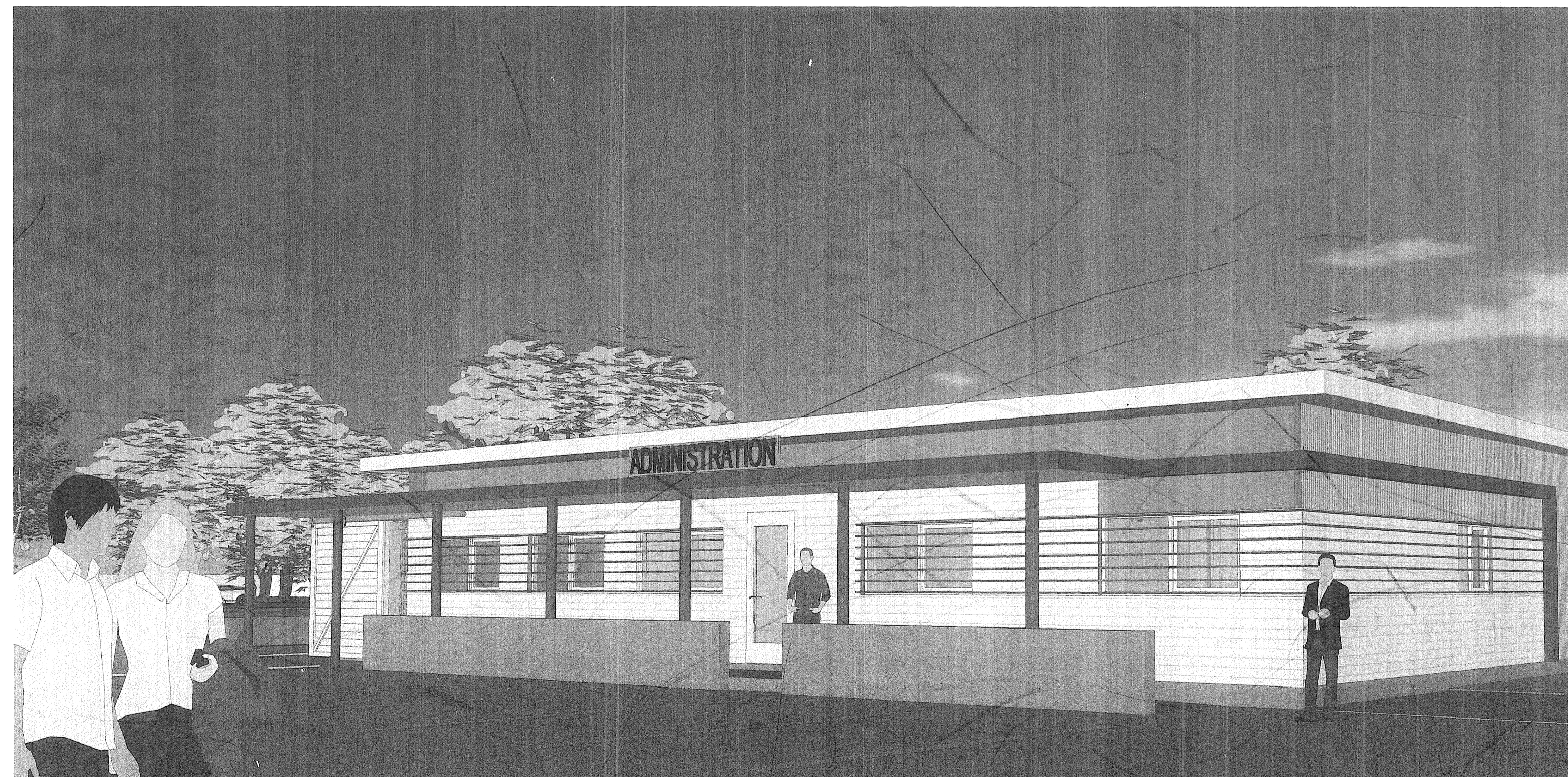
**NOTES:**

1. APPLICABLE PROJECT CODE AND STANDARDS FOR ARCHITECTURAL AND BUILDING ENCLOSURE DESIGN: 2015 NBC, PARTS 9 AND 5, RESPECTIVELY.
2. DRAWINGS WERE PREPARED BASED ON ORIGINAL ARCHITECTURAL DRAWINGS DATED APRIL 1967. ORIGINAL ARCHITECT UNKNOWN.
3. CONTRACTOR TO VERIFY ALL DIMENSIONS AND CONDITIONS ON SITE PRIOR TO COMMENCEMENT OF WORK. CONSULTANT SHALL BE INFORMED OF ANY VARIATIONS AS SHOWN ON THE DRAWINGS. DIMENSIONS SHOWN ON THE DRAWINGS ARE BASED ON EXISTING DRAWING INFORMATION. CONTRACTORS AND TRADES ARE RESPONSIBLE TO CONFIRM ANY DIMENSIONING RELIED UPON FOR PRICING PURPOSES. THE BUILDING IS EXISTING AND AVAILABLE FOR REVIEW.
4. IT IS NOT THE INTENTION OF THE PROJECT TO UPGRADE THE EXISTING BUILDING OUTSIDE THE SCOPE OF WORK DESCRIBED BY THIS SET OF DRAWINGS.

# GULF OF GEORGIA CANNERY ADMINISTRATION BUILDING BUILDING ENCLOSURE RENEWALS

**ADDRESS:**

12138 Fourth Avenue,  
RICHMOND, BC



**ARCHITECTURAL DRAWINGS:**

- A-0.0 COVER SHEET
- A-1.0 SITE AND EXTERIOR DEMOLITION PLAN
- A-1.1 FLOOR PLAN
- A-1.2 ROOF PLAN
- A-1.3 REFLECTED CEILING PLAN
- A-2.1 BUILDING ELEVATIONS
- A-3.1 WINDOW & DOOR SCHEDULE
- A-4.1 SCHEDULES AND DETAIL DRAWINGS
- A-4.2 DETAIL DRAWINGS
- A-4.3 DETAIL DRAWINGS
- A-4.4 DETAIL DRAWINGS

**STRUCTURAL DRAWINGS:**

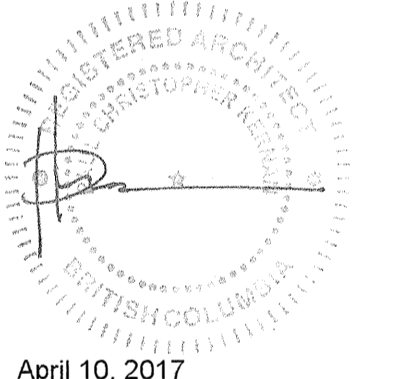
- S-1 STRUCTURAL SCHEDULES AND NOTES
- S-2 FOUNDATION PLAN
- S-3 ROOF FRAMING PLAN
- S-4 DETAIL DRAWINGS
- S-5 DETAIL DRAWINGS

**MECHANICAL DRAWINGS:**

- M1 MECHANICAL DEMOLITION PLAN
- M2 MECHANICAL FLOOR PLAN
- M3 MECHANICAL ROOM PLAN
- M4 MECHANICAL ROOM SECTIONS
- M5 MECHANICAL ROOM SECTIONS
- M6 MECHANICAL ROOM DETAILS

**ELECTRICAL DRAWINGS:**

- E1 ELECTRICAL COVER SHEET
- E2 ELECTRICAL SITE PLAN
- E3 ELECTRICAL PLAN LIGHTING
- E4 ELECTRICAL PLAN LIGHTING
- E5 ELECTRICAL PLAN
- E6 ELECTRICAL MECHANICAL ROOM
- E7 MECHANICAL ROOM SECTIONS
- E8 ELECTRICAL POWER ROUTING MUSEUM TO ADMINISTRATION BUILDING
- E9 PANEL SCHEDULES, LIGHTING SCHEDULES AND LEGENDS
- E10 ELECTRICAL BUILDING SECTION EAST ELEVATION
- E11 ELECTRICAL NOTES - SHEET 1 OF 2
- E12 ELECTRICAL NOTES - SHEET 2 OF 2



4	ISSUED FOR TENDER	APR. 10, 2017
3	ISSUED FOR TENDER	FEB. 22, 2017
2	ISSUED FOR 99% REVIEW	OCT. 24, 2016
1	ISSUED FOR REVIEW	AUG. 19, 2016
Revision / Revision	Description / Description	Date / Date

Client / client  
**PARKS CANADA  
WESTERN REGION  
STEVESTON, B.C. NATIONAL HISTORIC  
SITE**

Project title / Titre du projet  
**GULF OF GEORGIA CANNERY  
ADMINISTRATION BUILDING**  
  
12138 Fourth Ave., Richmond B.C.

Consultant Approval Box Only

Designed by / Concept par  
PK

Drawn by / Dessiné par  
AC

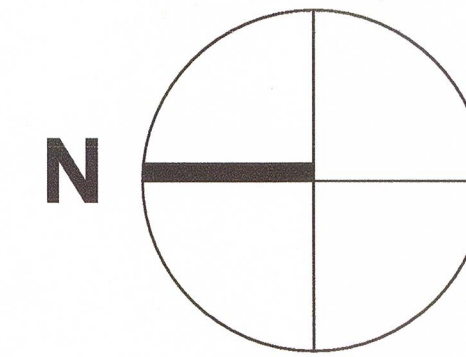
PWGS&C, Project Manager / Administrateur de Projets TPSGC  
TOM DUNPHY

PWGS&C, Regional Manager, Architectural and Engineering Services /  
Gestionnaire régionale, Services d'architecture et de génie, TPSGC  
PREETIPAL PAUL

Drawing title / Titre du dessin  
**COVER SHEET**  
SCALE: ---

Project no. / no. du Projet R.060702.001	Sheet / Feuille A-0.0	Revision no. / La Revision no.
---	--------------------------	---



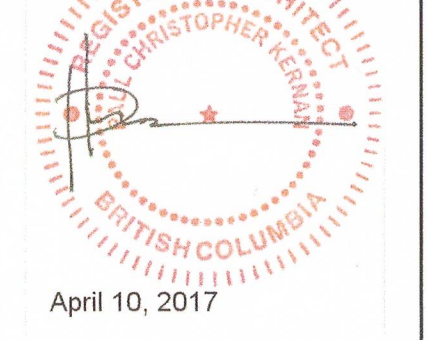


NOTE:  
APPROX. EXTENT OF ALLOWABLE CONTRACTOR STAGING AREA (SHOWN WITH DIAG. HATCHED)

NOTE:  
EXISTING WALLS AND INTERIOR SPACE SHOWN TONED GREY

### REHABILITATION LEGEND (PLANS)

- EXTENT OF WALL RENEWAL. ALL WALLS W1 OR W2 U.N.O. REFER ALSO TO ELEVATIONS
- EXTENT OF 2-PLY SBS ROOF MEMBRANE
- EXTENT OF CONCRETE SLAB
- EXTENT OF 'RED' COLOURED PREFIN. STEEL FLASHING
- EXTENT OF WOOD FRAMED CANOPY AND ROOF
- APPROX. EXTENT OF ASPHALT TO REPLACE EXISTING
- APPROX. EXTENT OF SOD TO REPLACE EXISTING
- 76 DIA. PREFIN. STEEL RAINWATER LEADER C/W 457 x 457 PRECAST SPLASH PAD ON RUBBER PADS
- 102 DIA. PREFIN. STEEL RAINWATER LEADER C/W 457 x 457 PRECAST SPLASH PAD ON RUBBER PADS
- 51 DIA. SPUN COPPER ROOF DRAIN C/W CLAMPING RING
- 76 DIA. SPUN COPPER ROOF DRAIN C/W CLAMPING RING
- APPROX. EXISTING GRADE ELEVATION (FIELD VERIFY)
- APPROX. FINISH GRADE ELEVATION (FIELD VERIFY)
- VINYL WINDOW TO REPLACE EXISTING
- EXTERIOR DOOR TO REPLACE EXISTING



4	ISSUED FOR TENDER	APR. 10, 2017
3	ISSUED FOR TENDER	FEB. 22, 2017
2	ISSUED FOR 99% REVIEW	OCT. 24, 2016
1	ISSUED FOR REVIEW	AUG. 19, 2016

Client / client  
**PARKS CANADA  
WESTERN REGION  
STEVESTON, B.C. NATIONAL HISTORIC SITE**

Project title / Titre du projet  
**GULF OF GEORGIA CANNERY ADMINISTRATION BUILDING**

12138 Fourth Ave., Richmond B.C.

Consultant Approval Box Only

Designed by / Concept par  
PK

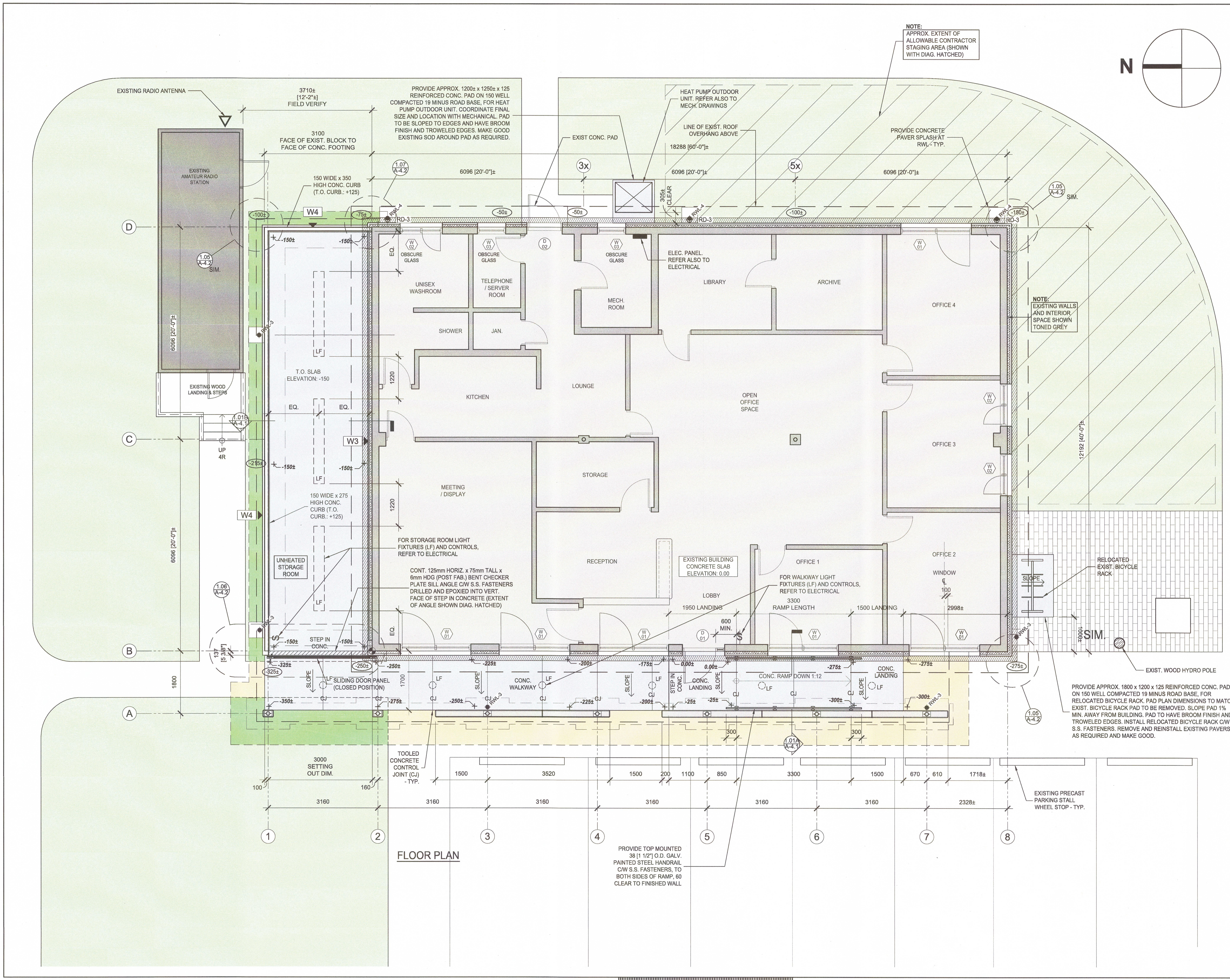
Drawn by / Dessiné par  
AC

PWGSC, Project Manager / Administrateur de Projets TPSGC  
TOM DUNPHY

PWGSC, Regional Manager, Architectural and Engineering Services / Gestionnaire régionale, Services d'architecture et de génie, TPSGC  
PREETIPAL PAUL

Drawing title / Titre du dessin  
**FLOOR PLAN  
SCALE: 1:50**

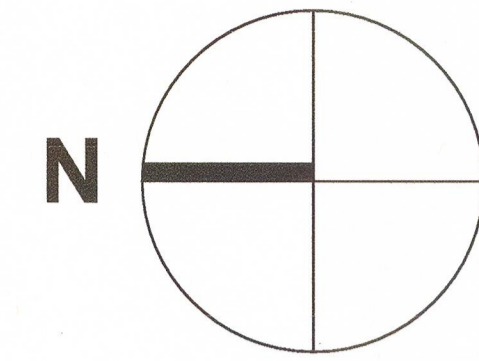
Project no. / no. du Proj. / Sheet / Feuille / Revision no. / La Revision no.  
**R.060702.001 A-1.1**



**FLOOR PLAN**

PROVIDE TOP MOUNTED 38 (1 1/2) O.D. GALV. PAINTED STEEL HANDRAIL C/W S.S. FASTENERS, TO BOTH SIDES OF RAMP, 60 CLEAR TO FINISHED WALL

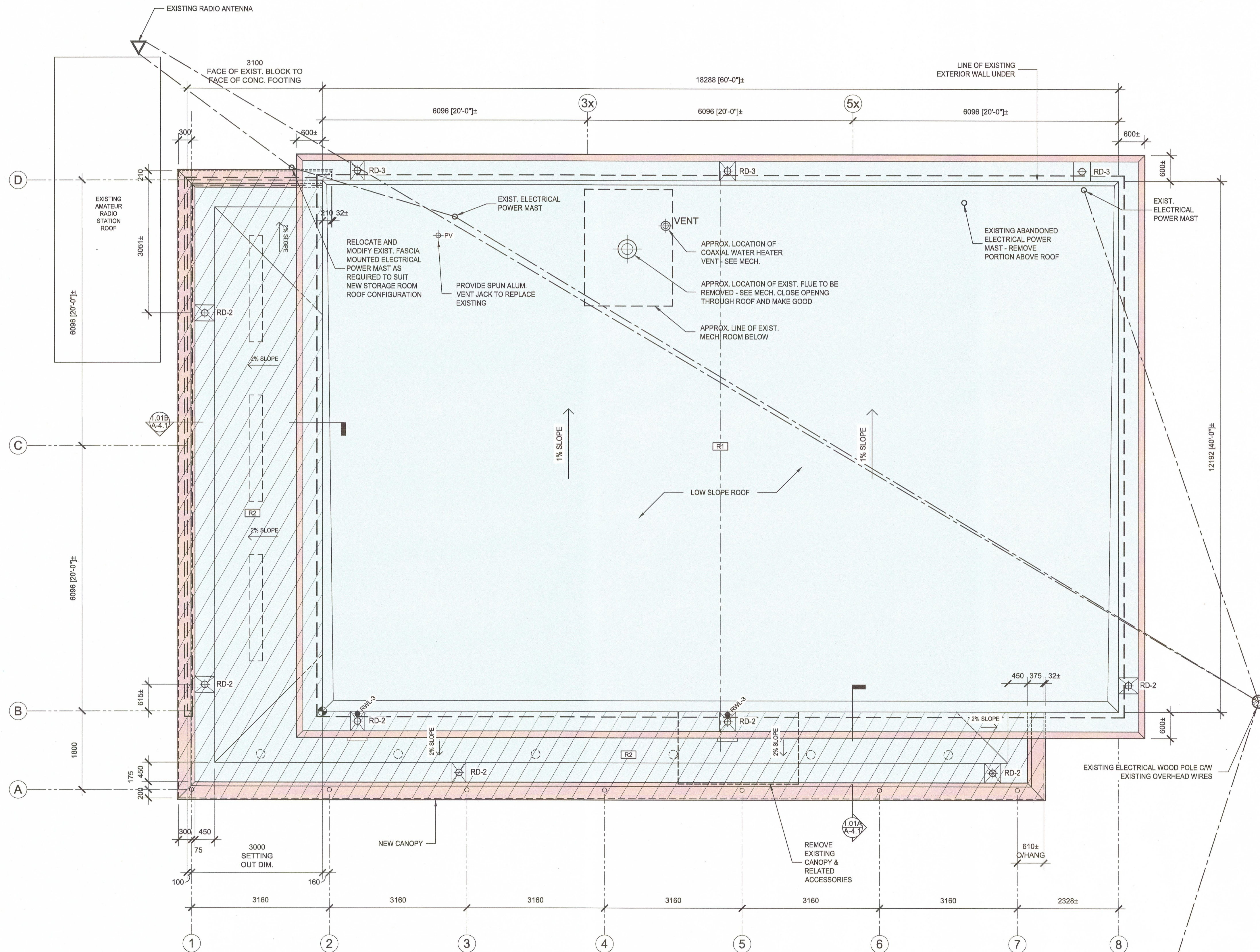
PROVIDE APPROX. 1800 x 1200 x 125 REINFORCED CONC. PAD ON 150 WELL COMPACTED 19 MINUS ROAD BASE, FOR RELOCATED BICYCLE RACK. PAD PLAN DIMENSIONS TO MATCH EXIST. BICYCLE RACK PAD TO BE REMOVED. SLOPE PAD 1% MIN. AWAY FROM BUILDING. PAD TO HAVE BROOM FINISH AND TROWELED EDGES. INSTALL RELOCATED BICYCLE RACK C/W S.S. FASTENERS. REMOVE AND REINSTALL EXISTING PAVERS AS REQUIRED AND MAKE GOOD.



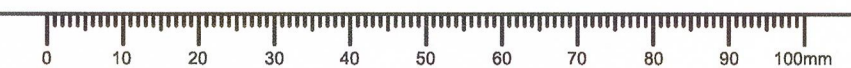
# RDH

## REHABILITATION LEGEND (PLANS)

- EXTENT OF WALL RENEWAL. ALL WALLS W/ OR W/O U.A.O. REFER ALSO TO ELEVATIONS
- EXTENT OF 2-PLY SBS ROOF MEMBRANE
- EXTENT OF CONCRETE SLAB
- EXTENT OF 'RED' COLOURED PREFIN. STEEL FLASHING
- EXTENT OF WOOD FRAMED CANOPY AND ROOF
- APPROX. EXTENT OF ASPHALT TO REPLACE EXISTING
- APPROX. EXTENT OF SOD TO REPLACE EXISTING
- 76 DIA. PREFIN. STEEL RAINWATER LEADER CW 457 x 457 PRECAST SPLASH PAD ON RUBBER PADS
- 102 DIA. PREFIN. STEEL RAINWATER LEADER CW 457 x 457 PRECAST SPLASH PAD ON RUBBER PADS
- RD-2 51 DIA. SPUN COPPER ROOF DRAIN CW CLAMPING RING
- RD-3 76 DIA. SPUN COPPER ROOF DRAIN CW CLAMPING RING
- 150± APPROX. EXISTING GRADE ELEVATION (FIELD VERIFY)
- 200± APPROX. FINISH GRADE ELEVATION (FIELD VERIFY)
- W 01 VINYL WINDOW TO REPLACE EXISTING
- D 01 EXTERIOR DOOR TO REPLACE EXISTING



**ROOF PLAN**



4	ISSUED FOR TENDER	APR. 10, 2017
3	ISSUED FOR TENDER	FEB. 22, 2017
2	ISSUED FOR 99% REVIEW	OCT. 24, 2016
1	ISSUED FOR REVIEW	AUG. 19, 2016

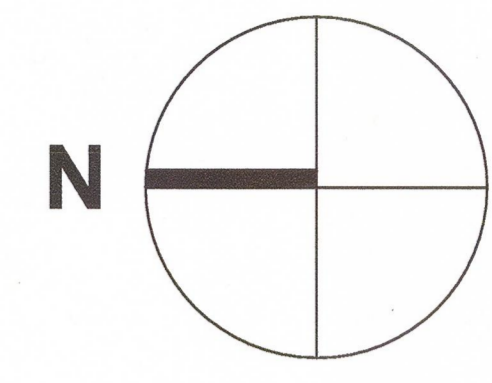
Client / client  
**PARKS CANADA**  
**WESTERN REGION**  
 STEVESTON, B.C. NATIONAL HISTORIC SITE

Project title / Titre du projet  
**GULF OF GEORGIA CANNERY ADMINISTRATION BUILDING**  
 12138 Fourth Ave., Richmond B.C.

Consultant Approval Box Only  
 Designed by / Concept par: PK  
 Drawn by / Dessiné par: AC  
 PWGSC, Project Manager / Administrateur de Projets TPSGC  
 TOM DUNPHY  
 PWGSC, Regional Manager, Architectural and Engineering Services / Gestionnaire régionale, Services d'architecture et de génie, TPSGC  
 PREETIPAL PAUL

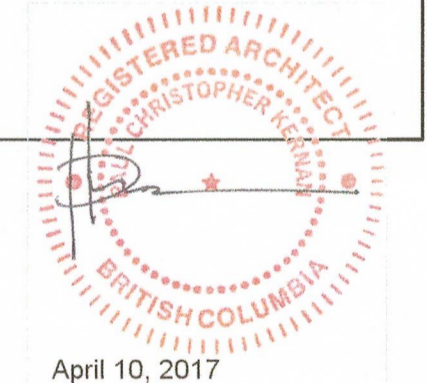
Drawing title / Titre du dessin  
**ROOF PLAN**  
 SCALE: 1:50

Project no. / no. du Projet	Sheet / Feuille	Revision no. / La Révision No.
R.060702.001	A-1.2	



### REHABILITATION LEGEND (R.C.P.)

- EXTENT OF EXISTING ACOUSTIC CEILING TILE (AND CONCEALED 19 x 89 STRAPPING) TO BE REMOVED. EXPOSED SHIPLAP SOFFIT AND JOIST FRAMING TO BE PAINTED.
- EXTENT OF EXISTING SUSPENDED T-BAR CEILING (AND CONCEALED ACOUSTIC CEILING TILE ABOVE T-BAR) TO BE RETAINED
- EXTENT OF EXISTING SUSPENDED T-BAR CEILING TO BE REMOVED AND REINSTALLED. NOTE: EXISTING CONCEALED ACOUSTIC CEILING TILE ABOVE, AT U/S JOISTS, TO BE REMOVED TO FACILITATE THE WORK OF D-8.04 ON S-4
- EXTENT OF EXISTING SUSPENDED T-BAR CEILING TO BE REMOVED. NOTE: RETAIN EXISTING GYPSUM BOARD CEILING AT U/S JOISTS
- EXTENT OF EXISTING SUSPENDED T-BAR CEILING TO BE REMOVED. NOTE: REMOVE EXISTING GYPSUM BOARD CEILING AT U/S JOISTS AS REQ'D TO FACILITATE THE WORK OF D-8.04 ON S-4. REINSTATE WITH TYPE 'X' GYPSUM WALLBOARD, THICKNESS TO MATCH, CW WITH PLASTERED AND TAPED JOINTS
- EXTENT OF EXISTING GYPSUM BOARD CEILING AT U/S JOISTS TO BE RETAINED. PAINT CEILING.
- EXTENT OF CEDAR SOFFIT TO BE PAINTED.
- MECH. EQUIP AND DUCTWORK. REFER ALSO TO MECH. DRAWINGS



Revision / Revision	Description / Description	Date / Date
4	ISSUED FOR TENDER	APR. 10, 2017
3	ISSUED FOR TENDER	FEB. 22, 2017
2	ISSUED FOR 99% REVIEW	OCT. 24, 2016
1	ISSUED FOR REVIEW	AUG. 19, 2016

Client / client  
**PARKS CANADA  
WESTERN REGION  
STEVESTON, B.C. NATIONAL HISTORIC  
SITE**

Project title / Titre du projet  
**GULF OF GEORGIA CANNERY  
ADMINISTRATION BUILDING**

12138 Fourth Ave., Richmond B.C.

Consultant Approval Box Only

Designed by / Concept par  
PK

Drawn by / Dessiné par  
AC

PWGSC, Project Manager / Administrateur de Projets TPSGC

TOM DUNPHY

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

PREETIPAL PAUL

Drawing title / Titre du dessin

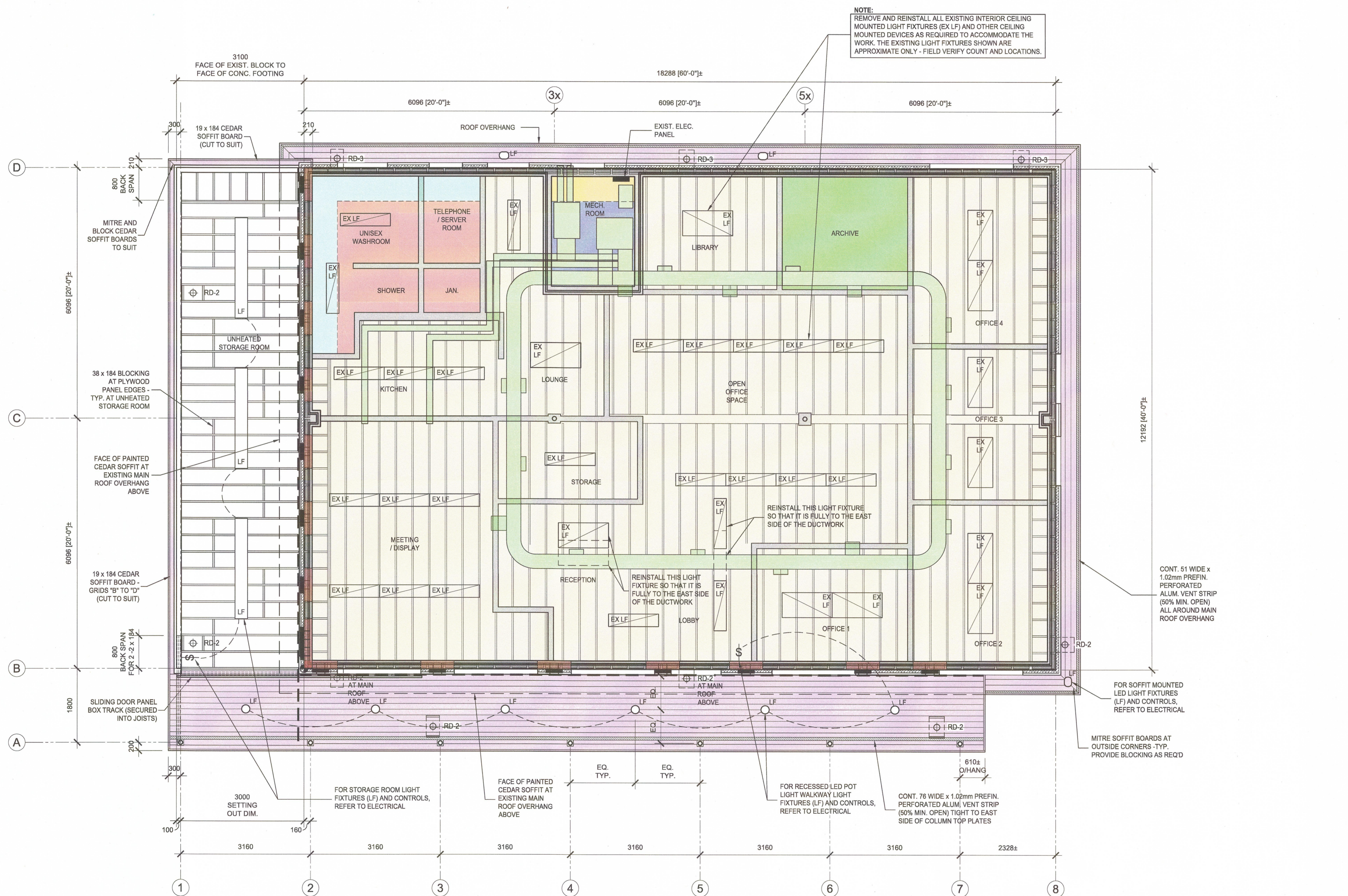
**REFLECTED CEILING PLAN  
SCALE: 1:50**

Project no. / no. du Projet

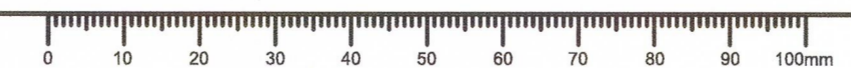
Sheet / Feuille

Revision no. /  
La  
Revision  
no.

R.060702.001 A-1.3



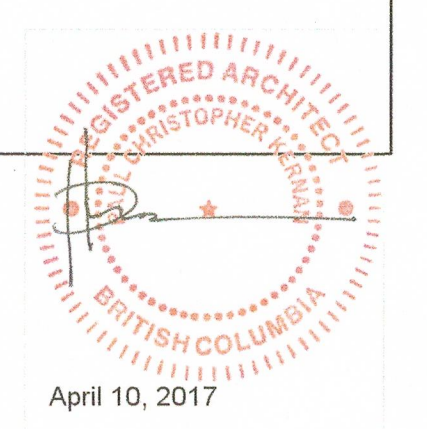
**REFLECTED CEILING PLAN**



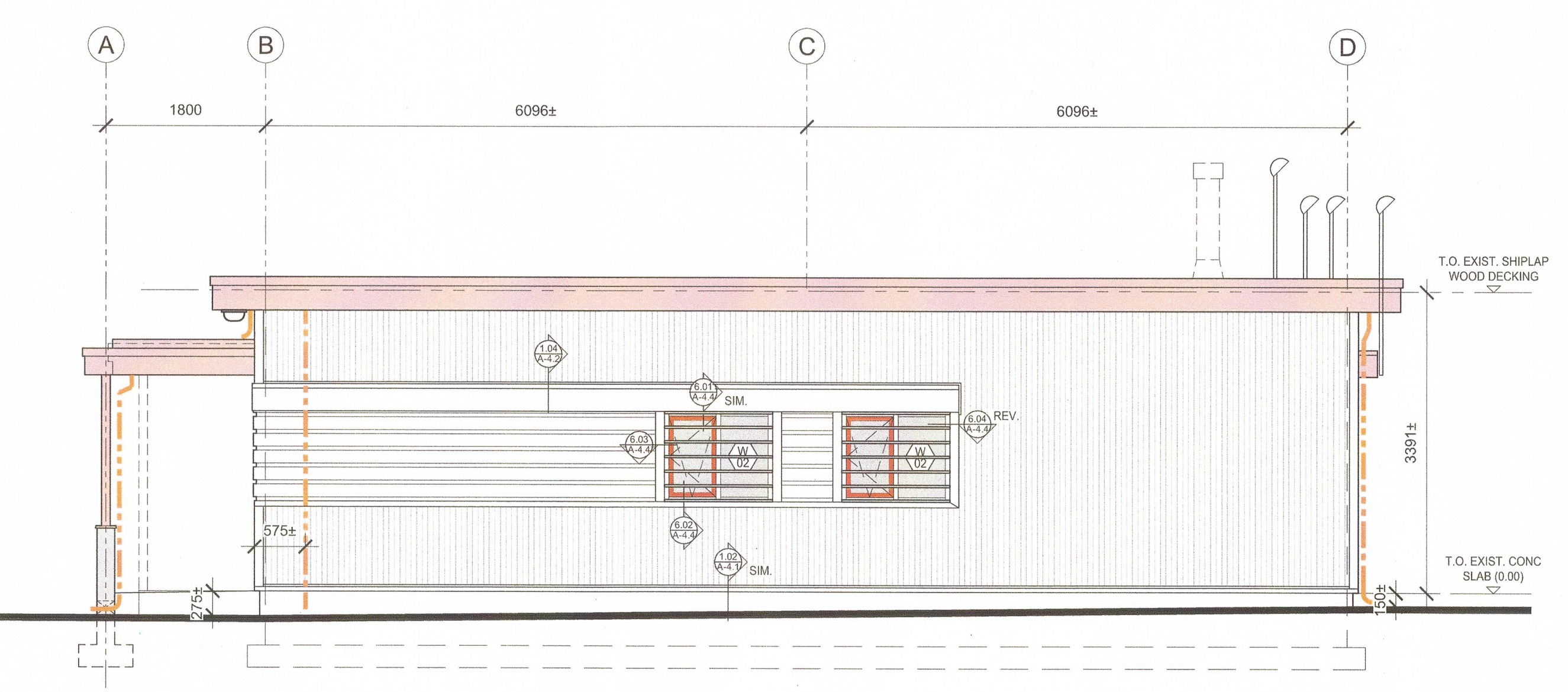
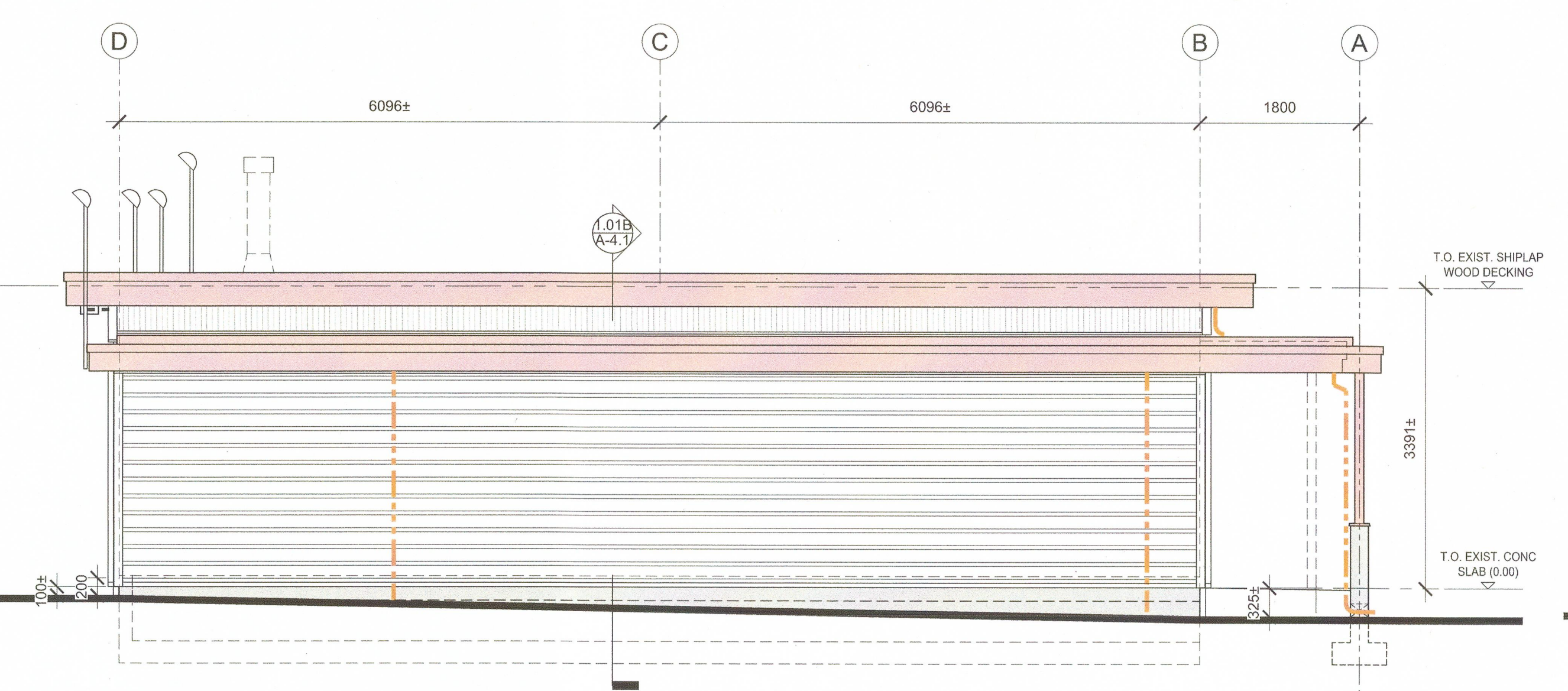
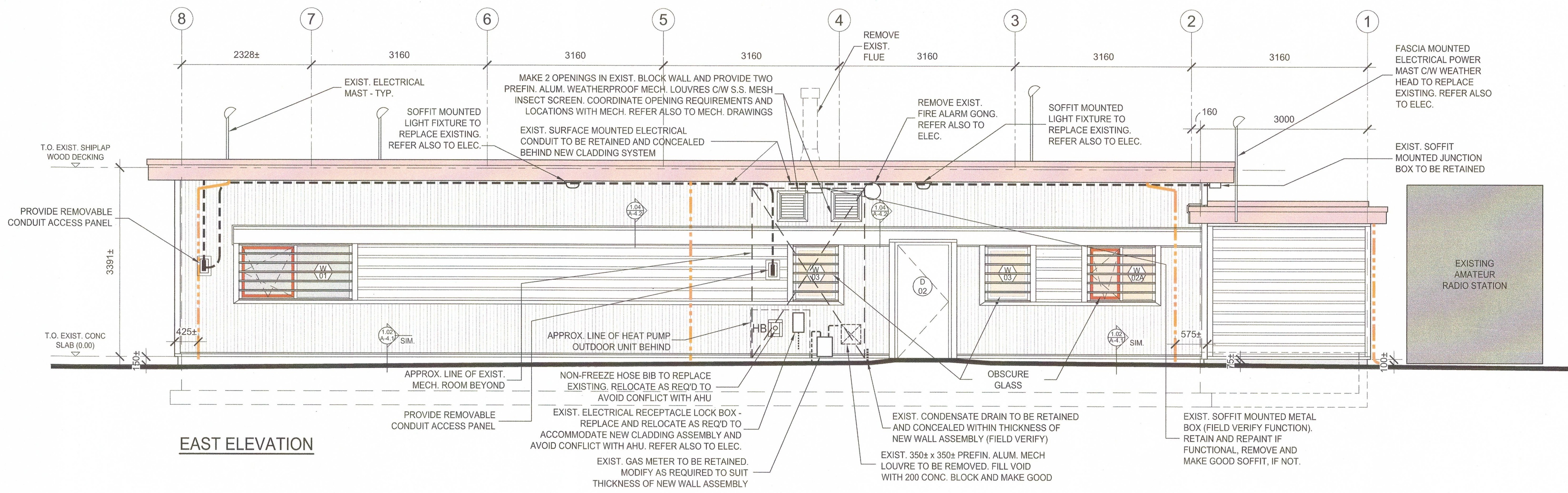
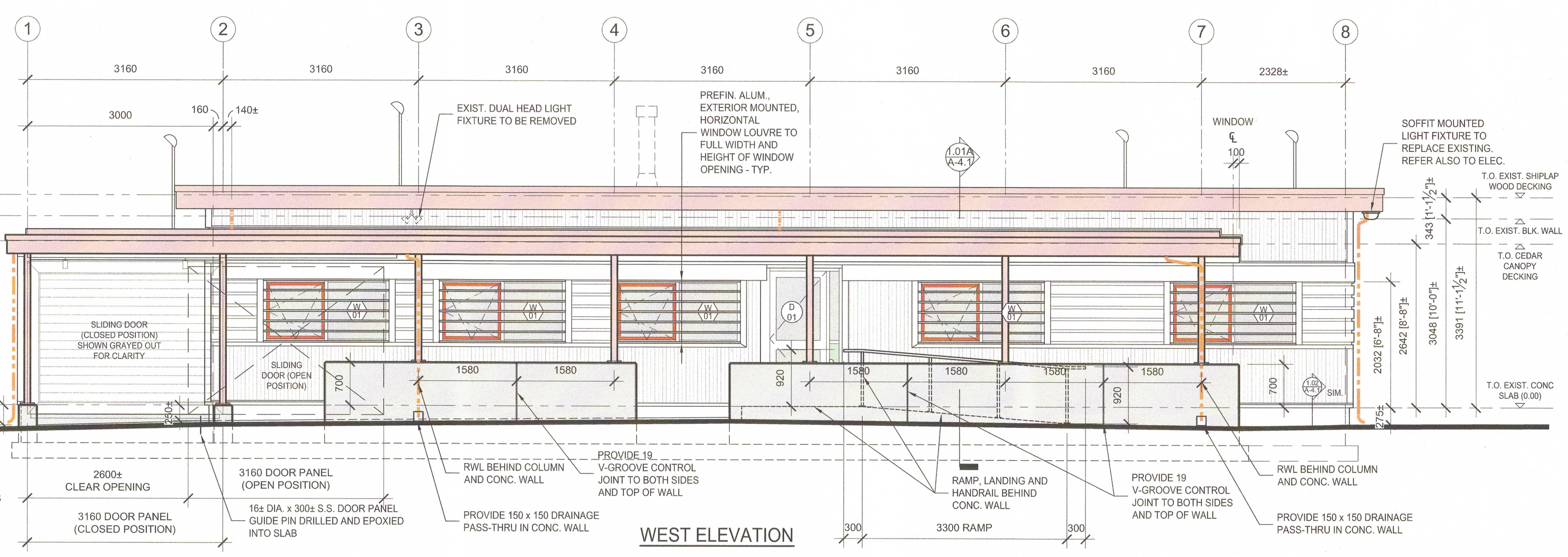
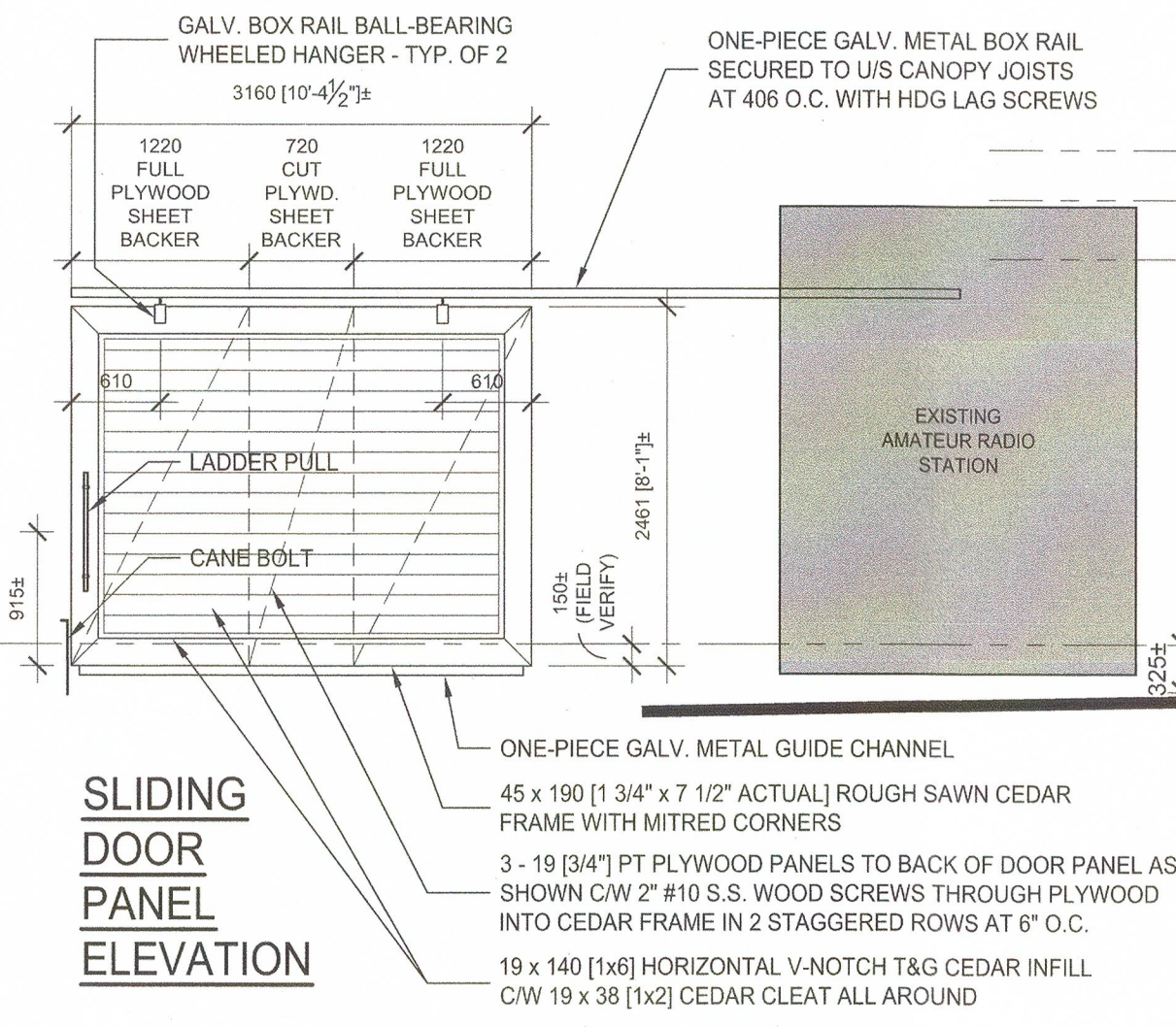


**REHABILITATION LEGEND (ELEV.)**

- EXPOSED ARCHITECTURAL CONCRETE
- EXTENT OF "RED" COLOURED PREFIN. STEEL FLASHING AND PAINTED STEEL COLUMNS
- EXTENT OF "SILVER" COLOURED PREFIN. VERTICAL CORRUGATED STEEL CLADDING (WALL ASSEMBLY W1)
- EXTENT OF "WHITE" COLOURED PREFIN. HORIZONTAL CHANNEL STEEL CLADDING (WALL ASSEMBLY W2)
- "WHITE" COLOURED PREFIN. STEEL RWL. REFER ALSO TO PLANS FOR DIAMETER AND LOCATIONS
- VINYL WINDOW TO REPLACE EXISTING
- EXTERIOR DOOR TO REPLACE EXISTING



- DOOR PANEL NOTES:**
- ALL DOOR PANEL FASTENERS TO BE S.S.
  - ALL DOOR PANEL CEDAR AND PLYWOOD COMPONENTS TO BE PRIMED ALL SIDES PRIOR TO ASSEMBLY
  - PAINT COLOUR COATS TO BE APPLIED TO BOTH SIDES OF DOOR PANEL.
  - PROVIDE HEAVY-DUTY 12.5 MIN. DIA. S.S. TAMPERPROOF, LOCKABLE, CANE BOLT C/W HEAVY-DUTY EXTERIOR GRADE PADLOCK WITH MIN. 2 KEYS. DRILL, SLAB 50 MIN. TO SUIT BOLT.
  - PROVIDE HEAVY-DUTY 25 [1" DIA. x 813± [2'-8"] TALL POLISHED S.S. "LADDER" PULL (OFFSET) TO BOTH SIDES OF DOOR C/W 50 [2" DIA. S.S. WASHERS AND S.S. FASTENERS TO BOTH SIDES OF DOOR



4	ISSUED FOR TENDER	APR. 10, 2017
3	ISSUED FOR TENDER	FEB. 22, 2017
2	ISSUED FOR 99% REVIEW	OCT. 24, 2016
1	ISSUED FOR REVIEW	AUG. 19, 2016
Revision / Revision	Description / Description	Date / Date

Client / client: **PARKS CANADA WESTERN REGION STEVESTON, B.C. NATIONAL HISTORIC SITE**

Project title / Titre du projet: **GULF OF GEORGIA CANNERY ADMINISTRATION BUILDING**

12138 Fourth Ave., Richmond B.C.

Consultant Approval Box Only

Designed by / Concept par: PK

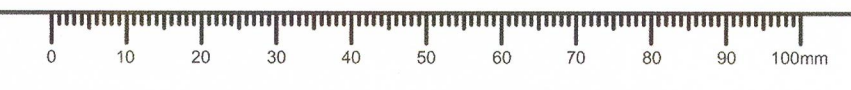
Drawn by / Dessiné par: AC

PWGSC Project Manager / Administrateur de Projets TPGSC: TOM DUNPHY

PWGSC Regional Manager, Architectural and Engineering Services / Gestionnaire régionale, Services d'architecture et de génie TPGSC: PREETIPAL PAUL

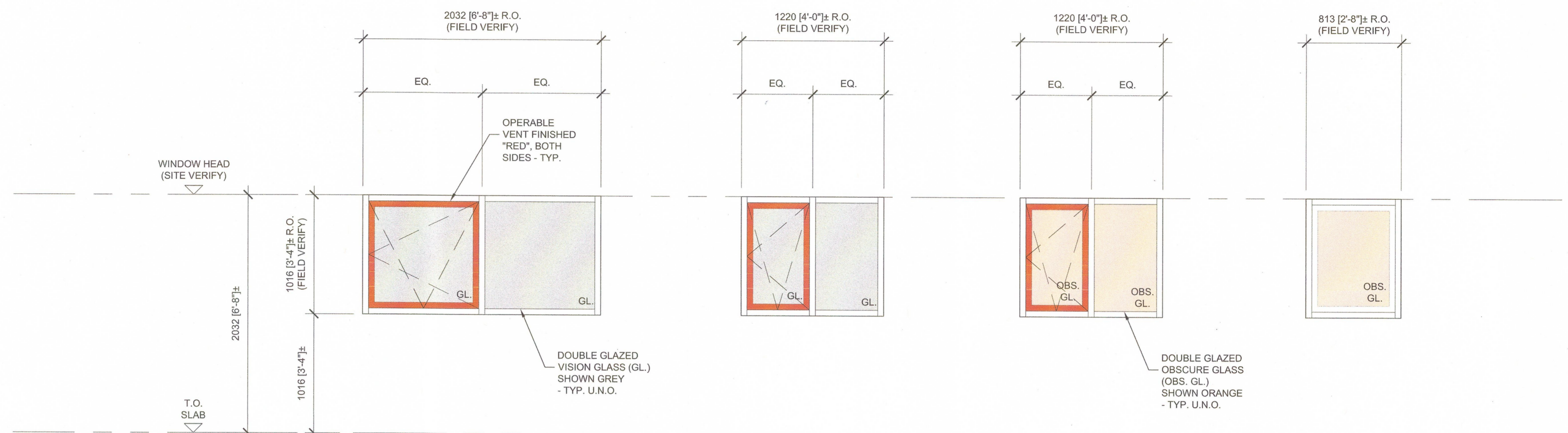
Drawing title / Titre du dessin: **BUILDING ELEVATIONS**  
 SCALE: 1:50

Project no. / no. du Projet: R.060702.001	Sheet / Feuille: A-2.1	Revision no. / La Revision no.:
---	------------------------	---------------------------------



**NOTES:**

- THIS WINDOW SCHEDULE AS SHOWN IS TO BE FIELD VERIFIED BY THE WINDOW SUPPLIER.
- THE FENESTRATION PATTERN WILL VARY AS NOTED IN THIS SCHEDULE WITH A "★".
- WHEREVER THE CONFIGURATION OF OPERABLE VENTS NEEDS TO BE MODIFIED BY THE WINDOW SUPPLIER TO MEET PRODUCT LIMITATIONS, THIS MUST BE NOTED ON THE SHOP DRAWINGS.
- FIELD MEASUREMENTS ARE REQUIRED OF MULLION SPACING, ROUGH OPENINGS, VENT POSITIONS AND HIDDEN CONDITIONS.
- FIELD MEASUREMENTS ARE THE RESPONSIBILITY OF THE WINDOW SUPPLIER WITH ACCESS PROVIDED BY RDH.
- WHERE ASSEMBLIES ARE HIDDEN, RDH WILL ARRANGE TO HAVE THE ASSEMBLY DISMANTLED FOR REVIEW AND MEASUREMENTS.
- CORNER POSTS, COUPLERS AND OTHER HARDWARE AND ACCESSORIES NOT SHOWN FOR CLARITY. WINDOW SUPPLIER TO SITE VERIFY AND PROVIDE ALL REQUIRED WINDOW AND DOOR HARDWARE AND ACCESSORIES.

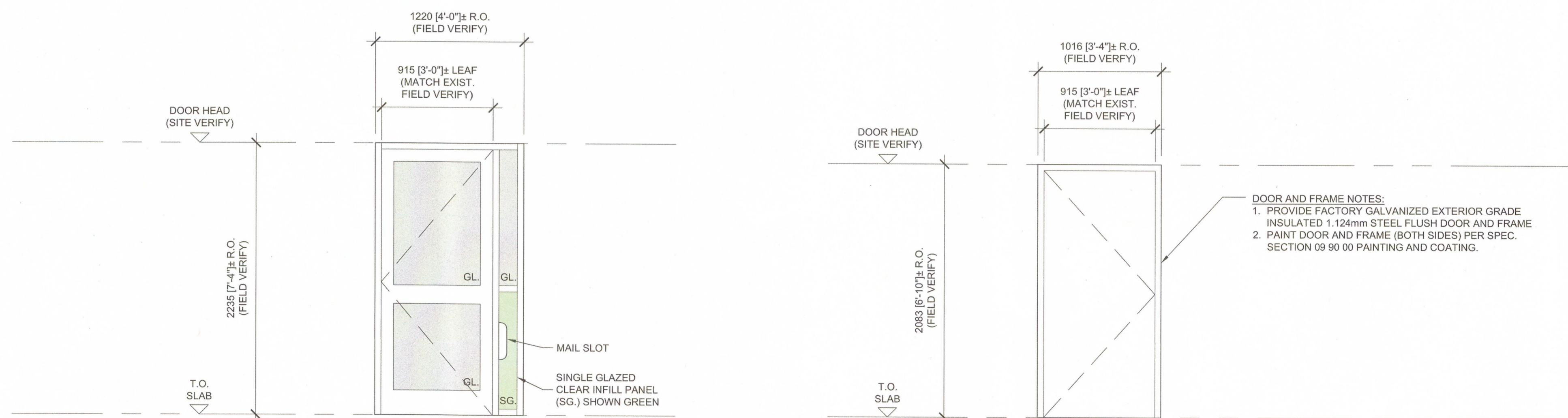


QTY: 6  
W 01  
TILT & TURN (INWARD) VINYL WINDOW

QTY: 2  
W 02  
TILT & TURN (INWARD) VINYL WINDOW

QTY: 1  
W 02A  
TILT & TURN (INWARD) VINYL WINDOW C/W OBSCURE GLASS

QTY: 2  
W 03  
FIXED GLASS VINYL WINDOW C/W OBSCURE GLASS



QTY: 1  
D 01  
PREFIN. ALUM., THERMALLY BROKEN, OUT-SWING EXTERIOR DOOR C/W DOUBLE GLAZED VISION GLASS UNIT TO LEAF AND SIDELITE AS INDICATED

QTY: 1  
D 02  
INSULATED, THERMALLY BROKEN, GALVANIZED, PAINTED HOLLOW METAL OUT-SWING EXTERIOR DOOR AND FRAME.

**HARDWARE:**

- PROVIDE HEAVY-DUTY, COMMERCIAL GRADE, EXTERIOR OFFSET PIVOT HINGES BY ALUM. DOOR MANUFACTURER.
- 1/2" MAX. HEIGHT EXTRUDED ALUM. THRESHOLD.
- PROVIDE COMMERCIAL GRADE, KEYPED DEAD-BOLT C/W INTERIOR THUMBTURN.
- PROVIDE 305 ± HIGH, DRILLED STAINLESS STEEL SECURITY ASTRAGAL TO EXTERIOR SIDE OF DOOR.
- PROVIDE FULL WIDTH x HEIGHT OF BOTTOM RAIL STAINLESS STEEL KICK PLATE TO INTERIOR SIDE OF DOOR.
- PROVIDE COMMERCIAL GRADE, EXTERIOR "D" PULL TO EXTERIOR SIDE OF DOOR.
- PROVIDE COMMERCIAL GRADE, "PADDLE" TYPE LATCH RELEASE TO INTERIOR SIDE OF DOOR.
- PROVIDE COMMERCIAL GRADE OVERHEAD SELF-CLOSER C/W HOLD-OPEN FEATURE TO INTERIOR SIDE OF DOOR.
- PROVIDE COMMERCIAL GRADE, 67± WIDE x 308 HIGH, MAIL SLOT THROUGH SINGLE GLAZED SIDELITE, C/W SELF-CENTERING PREFIN. ALUM. HINGED FLAP WITH LATCH. (BY C.R. LAURENCE CANADA, OR SIMILAR)
- PROVIDE HEAVY-DUTY COMMERCIAL GRADE BULB TYPE WEATHER STRIPPING TO ALL 4 SIDES, INCLUDING AN ADJUSTABLE DOOR SWEEP.
- ALL LOCKS TO BE SUPPLIED WITH A 6-PIN FACTORY GENERATED MASTER KEY SYSTEM. KEYING TO BE DETERMINED IN CONSULTATION WITH DEPARTMENTAL REPRESENTATIVE.
- ALL LOCKS TO OPERATE ON ONE COMMON MASTER KEY (TO MATCH EXISTING MASTER KEY).
- ALLOW FOR THREE (3) KEYS PER LOCK, ALL KEYS TO BE STAMPED "DO NOT DUPLICATE".
- PROVIDE NEW SECURITY CONTACTS TO LEAF AND FRAME TO MATCH EXISTING. CONNECT TO EXISTING SECURITY SYSTEM AND MAKE GOOD.

**HARDWARE:**

- PROVIDE 3 HEAVY-DUTY, COMMERCIAL GRADE, STAINLESS STEEL, TAMPERPROOF, BALL BEARING BUTT HINGES
- 1" MAX. HEIGHT EXTRUDED ALUM. THRESHOLD C/W INTERIOR BULB STOP.
- PROVIDE HEAVY-DUTY, COMMERCIAL GRADE, LEVER HANDLE PASSAGE SET.
- PROVIDE COMMERCIAL GRADE, KEYPED DEAD-BOLT C/W INTERIOR THUMBTURN.
- PROVIDE FULL HEIGHT, HEAVY GAUGE, DRILLED STAINLESS STEEL SECURITY ASTRAGAL TO EXTERIOR SIDE OF DOOR.
- PROVIDE FULL WIDTH x 203 MIN. HIGH STAINLESS STEEL KICK PLATE TO INTERIOR SIDE OF DOOR.
- PROVIDE COMMERCIAL GRADE, TAMPERPROOF, OVERHEAD SELF-CLOSER C/W HOLD-OPEN FEATURE TO INTERIOR SIDE OF DOOR.
- PROVIDE HEAVY-DUTY COMMERCIAL GRADE BULB TYPE WEATHER STRIPPING TO ALL 4 SIDES, INCLUDING AN ADJUSTABLE DOOR SWEEP.
- ALL LOCKS TO BE SUPPLIED WITH A 6-PIN FACTORY GENERATED MASTER KEY SYSTEM. KEYING TO BE DETERMINED IN CONSULTATION WITH DEPARTMENTAL REPRESENTATIVE.
- ALL LOCKS TO OPERATE ON ONE COMMON MASTER KEY (TO MATCH EXISTING MASTER KEY).
- ALLOW FOR THREE (3) KEYS PER LOCK, ALL KEYS TO BE STAMPED "DO NOT DUPLICATE".
- PROVIDE NEW SECURITY CONTACTS TO LEAF AND FRAME TO MATCH EXISTING. CONNECT TO EXISTING SECURITY SYSTEM AND MAKE GOOD.

**WINDOW & DOOR SCHEDULE**  
scale: 1:25



4	ISSUED FOR TENDER	APR. 10, 2017
3	ISSUED FOR TENDER	FEB. 22, 2017
2	ISSUED FOR 99% REVIEW	OCT. 24, 2016
1	ISSUED FOR REVIEW	AUG. 19, 2016
Revision / Revision	Description / Description	Date / Date

Client / client  
**PARKS CANADA  
WESTERN REGION  
STEVESTON, B.C. NATIONAL HISTORIC SITE**

Project title / Titre du projet  
**GULF OF GEORGIA CANNERY  
ADMINISTRATION BUILDING**

12138 Fourth Ave., Richmond B.C.

Consultant Approval Box Only

Designed by / Concept par  
PK

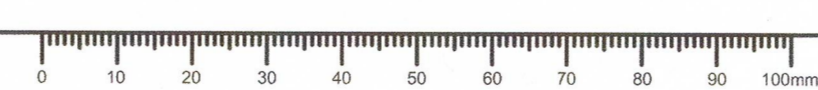
Drawn by / Dessiné par  
AC

PROJECT: Project Manager / Administrateur de Projets TPSCG  
TOM DUNPHY

PROJECT: Regional Manager: Architectural and Engineering Services /  
Gestionnaire régionale, Services d'architecture et de génie, TPSCG  
PREETIPAL PAUL

Drawing title / Titre du dessin  
**WINDOW & DOOR SCHEDULE**  
SCALE: 1:25

Project no. / no. du Projet R.060702.001	Sheet / Feuille A-3.1	Revision no. / La Revision no.
---	--------------------------	---



Public Works and Government Services Canada / Travaux publics et Services gouvernementaux Canada		Real Property Services / Services Immobiliers Région de Pacifique	
TYPE	LOCATION	DESCRIPTION (ALL MATERIALS ARE NEW UNLESS NOTED OTHERWISE)	SCHEMATIC DETAILS (n.i.s.) (EXIST. CONSTRUCTION TO BE RETAINED SHOWN TONED)
W1	TYPICAL CORRUGATED STEEL CLAD EXTERIOR WALL ASSEMBLY	<ul style="list-style-type: none"> <li>EXISTING PAINTED 190mm CONCRETE BLOCK WALL</li> <li>SELF ADHESIVE MEMBRANE</li> <li>70mm DEEP FIBERGLASS SPACERS AT 406mm O.C. MAX. HORIZONTALLY AND 686mm O.C. MAX. VERTICALLY (SECURED TO CONCRETE BLOCK WALL)</li> <li>70mm MINERAL FIBRE INSULATION BETWEEN SPACERS</li> <li>25mm AIR SPACE BETWEEN 25mm DEEP x 1.146mm HORIZONTAL AZM150 METAL HAT TRACKS AT 686mm O.C. MAX. FASTENED TO THERMAL SPACERS</li> <li>22mm PREFINISHED CORRUGATED STEEL CLADDING (INSTALLED WITH FLUTES VERTICAL)</li> </ul> <p>NOTES: 1. 1.146mm = BASE METAL THICKNESS WITHOUT COATINGS [18ga - IMPERIAL]</p>	
W2	TYPICAL CHANNEL STEEL CLAD EXTERIOR WALL ASSEMBLY	<ul style="list-style-type: none"> <li>EXISTING PAINTED 190mm CONCRETE BLOCK WALL</li> <li>SELF ADHESIVE MEMBRANE</li> <li>70mm DEEP FIBERGLASS SPACERS AT 406mm O.C. MAX. HORIZONTALLY AND 636mm O.C. MAX. VERTICALLY (SECURED TO CONCRETE BLOCK WALL)</li> <li>70mm MINERAL FIBRE INSULATION BETWEEN SPACERS</li> <li>25mm AIR SPACE BETWEEN 25mm DEEP x 1.146mm VERTICAL AZM150 METAL Z-GIRTS AT 406mm O.C. MAX. FASTENED TO THERMAL SPACERS</li> <li>35mm PREFINISHED CHANNEL STEEL CLADDING (INSTALLED WITH FLUTES HORIZONTAL)</li> </ul> <p>NOTES: 1. 1.146mm = BASE METAL THICKNESS WITHOUT COATINGS [18ga - IMPERIAL]</p>	

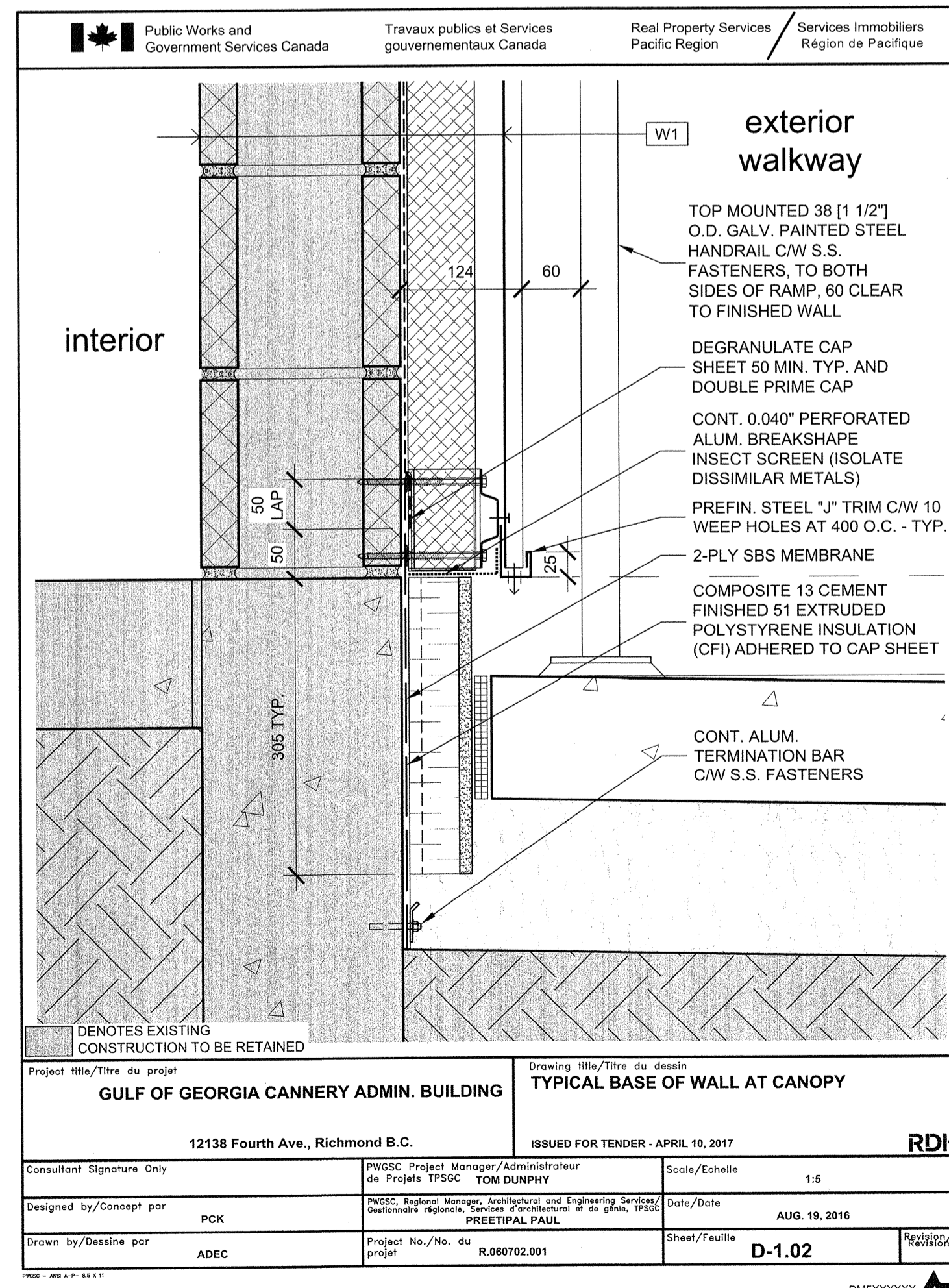
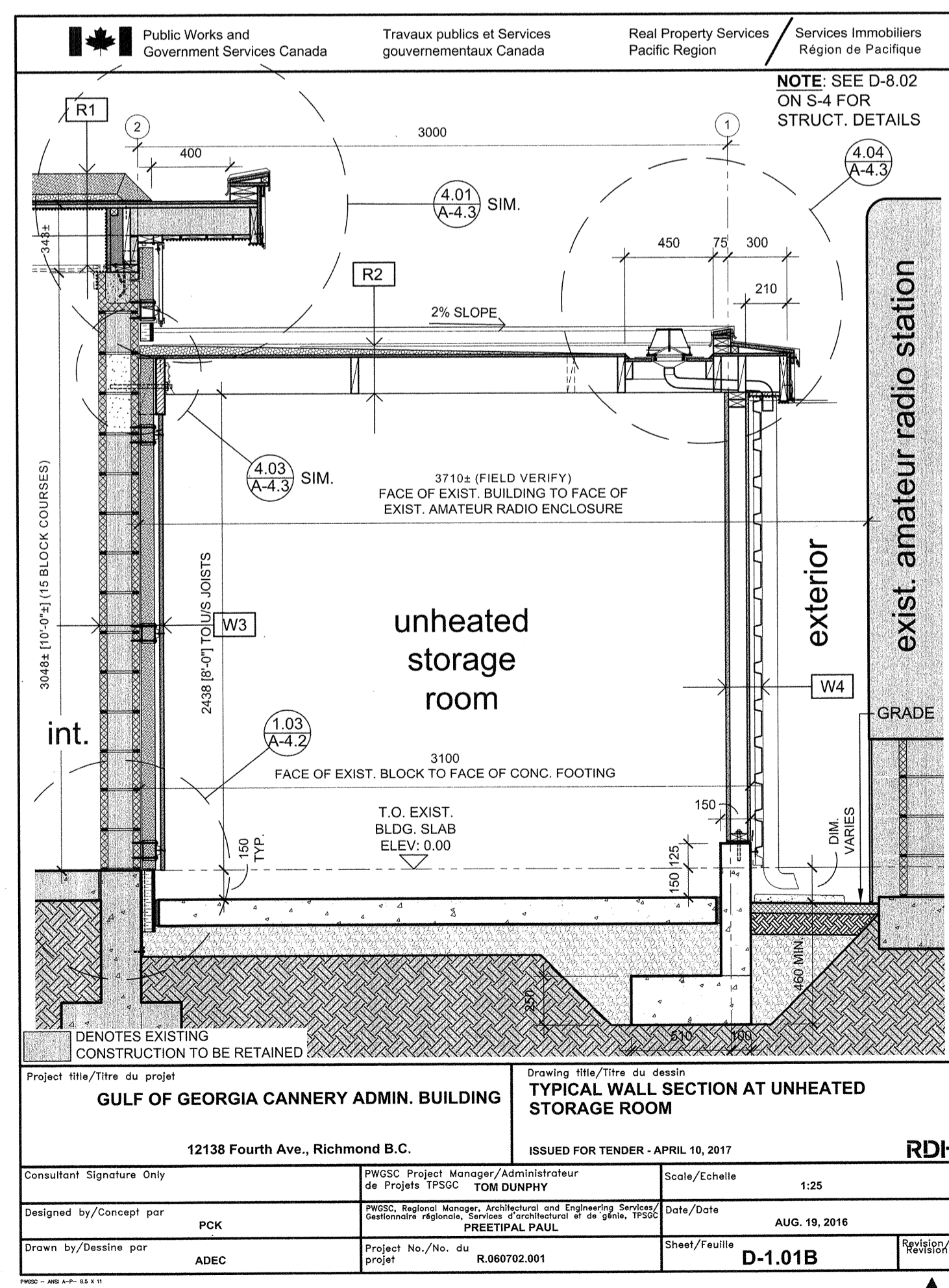
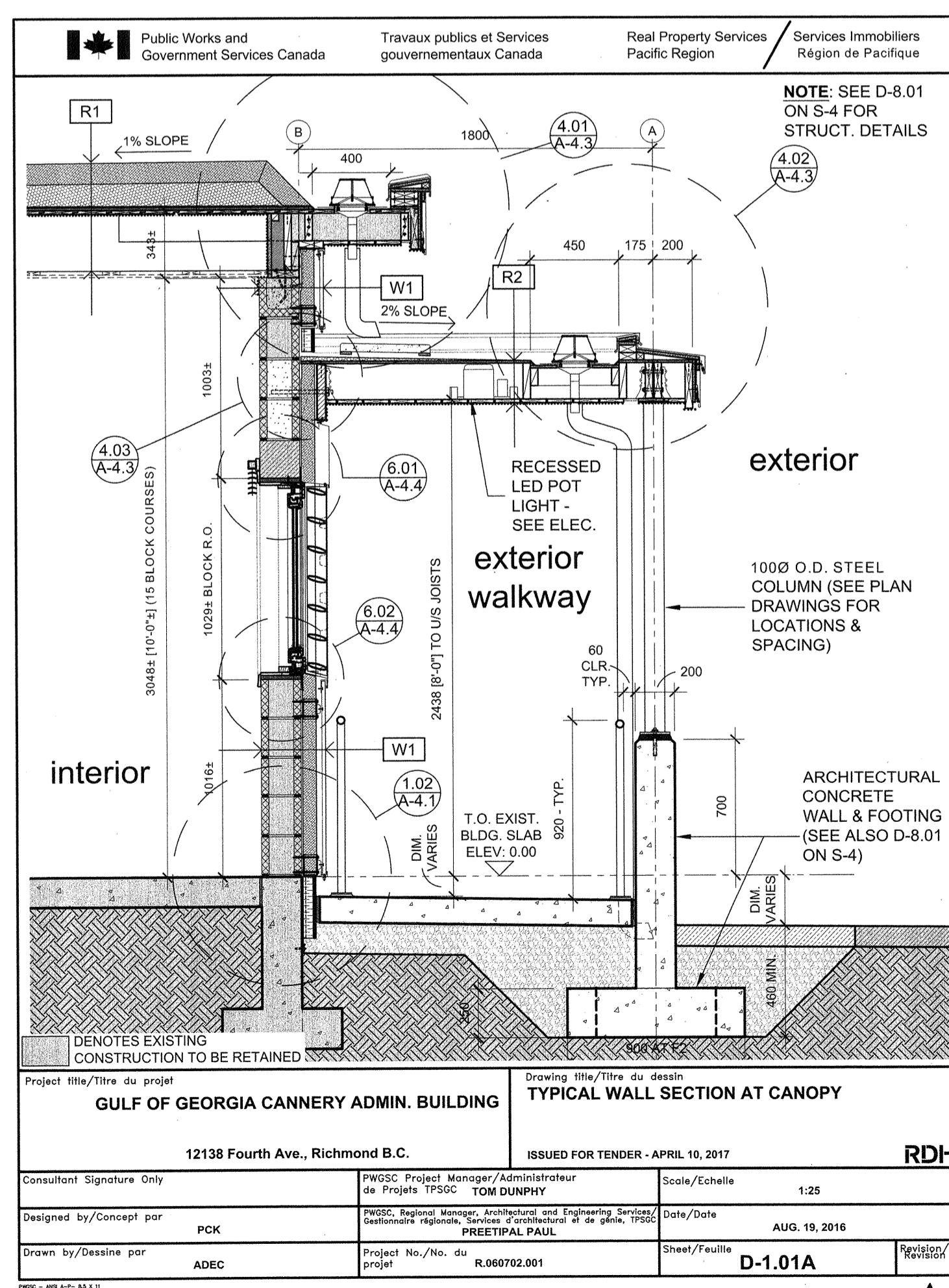
Public Works and Government Services Canada / Travaux publics et Services gouvernementaux Canada		Real Property Services / Services Immobiliers Région de Pacifique	
TYPE	LOCATION	DESCRIPTION (ALL MATERIALS ARE NEW UNLESS NOTED OTHERWISE)	SCHEMATIC DETAILS (n.i.s.) (EXIST. CONSTRUCTION TO BE RETAINED SHOWN TONED)
W3	TYPICAL EXTERIOR WALL ASSEMBLY AT UNHEATED STORAGE ROOM	<ul style="list-style-type: none"> <li>EXISTING PAINTED 190mm CONCRETE BLOCK WALL</li> <li>SELF ADHESIVE MEMBRANE</li> <li>70mm DEEP FIBERGLASS SPACERS AT 406mm O.C. MAX. HORIZONTALLY AND 686mm O.C. MAX. VERTICALLY (SECURED TO CONCRETE BLOCK WALL)</li> <li>70mm MINERAL FIBRE INSULATION BETWEEN SPACERS</li> <li>25mm AIR SPACE BETWEEN 25mm DEEP x 1.146mm HORIZONTAL AZM150 METAL HAT TRACKS AT 686mm O.C. MAX. FASTENED TO THERMAL SPACERS</li> <li>19mm PT T&amp;G PLYWOOD CLADDING</li> </ul> <p>NOTES: 1. 1.146mm = BASE METAL THICKNESS WITHOUT COATINGS [18ga - IMPERIAL]</p>	
W4	TYPICAL ENCLOSURE WALL ASSEMBLY AT UNHEATED STORAGE ROOM	<ul style="list-style-type: none"> <li>19mm PT T&amp;G PLYWOOD CLADDING</li> <li>38mm x 89mm PT WOOD FRAMING AT 406mm O.C. MAX.</li> <li>12.5mm PT PLYWOOD SHEATHING</li> <li>SHEATHING PAPER</li> <li>25mm AIR SPACE BETWEEN 25mm DEEP x 1.146mm VERTICAL AZM150 METAL Z-GIRTS AT 406mm O.C. MAX. FASTENED TO STUDS</li> <li>35mm PREFINISHED CHANNEL STEEL CLADDING (INSTALLED WITH FLUTES HORIZONTAL)</li> </ul> <p>NOTES: 1. 1.146mm = BASE METAL THICKNESS WITHOUT COATINGS [18ga - IMPERIAL]</p>	

Public Works and Government Services Canada / Travaux publics et Services gouvernementaux Canada		Real Property Services / Services Immobiliers Région de Pacifique	
TYPE	LOCATION	DESCRIPTION (ALL MATERIALS ARE NEW UNLESS NOTED OTHERWISE)	SCHEMATIC DETAILS (n.i.s.) (EXIST. CONSTRUCTION TO BE RETAINED SHOWN TONED)
R1	TYPICAL EXPOSED MEMBRANE ROOF ASSEMBLY (NON-VENTED)	<ul style="list-style-type: none"> <li>2-PLY SBS ROOF MEMBRANE</li> <li>102mm HIGH DENSITY MINERAL FIBRE INSULATION C/W ASPHALT IMPREGNATED TOP SURFACE</li> <li>1% SLOPED EXPANDED POLYSTYRENE (EPS) TAPERED INSULATION ROOF PACKAGE</li> <li>SELF ADHESIVE MEMBRANE VAPOUR BARRIER</li> <li>12.5mm PT PLYWOOD DIAPHRAGM</li> <li>EXISTING 19mm x 190mm SHIPLAP WOOD ROOF DECKING - TO BE PAINTED</li> <li>EXISTING 38mm x 286mm WOOD JOISTS AT 406mm O.C. MAX. - TO BE PAINTED</li> </ul> <p>NOTES: 1. REMOVE EXISTING ROOF MEMBRANE AND RELATED ACCESSORIES. 2. REMOVE EXISTING BATT INSULATION BETWEEN JOISTS 3. REMOVE EXISTING 19mm x 89mm STRAPPING AT US JOISTS. 4. REMOVE EXISTING PERFORATED ACOUSTIC CEILING TILE. REFER TO REFLECTED CEILING PLAN FOR REMOVAL EXTENT. 5. REMOVE EXISTING SUSPENDED T-BAR CEILING, WHERE OCCURRING (NOT SHOWN IN ADJACENT THUMBPLAN). REFER TO REFLECTED CEILING PLAN FOR REMOVAL EXTENT. 6. REMOVE EXISTING PLYWOOD CLADDING, VENT STRIP AND RELATED STRAPPING FROM EXTERIOR SOFFIT AT PERIMETER OF MAIN ROOF.</p>	
R2	TYPICAL EXPOSED MEMBRANE CANOPY ROOF ASSEMBLY	<ul style="list-style-type: none"> <li>2-PLY SBS ROOF MEMBRANE</li> <li>2 LAYERS 4.7mm ASPHALTIC OVERLAY BOARD C/W STAGGERED JOINTS AND FIRE-TAPED SEAMS</li> <li>2% SLOPED EXPANDED POLYSTYRENE (EPS) TAPERED INSULATION ROOF PACKAGE</li> <li>12.5mm PT PLYWOOD DIAPHRAGM</li> <li>38mm x 184mm PT WOOD JOISTS AT 406mm O.C. MAX.</li> </ul> <p>OVER EXTERIOR WALKWAY: • 19mm x 140mm V-NOTCHED T&amp;G CEDAR SOFFIT C/W PRIMED AND PAINTED FINISH</p> <p>OVER UNHEATED STORAGE ROOM: • PT WOOD JOISTS AND PLYWOOD DIAPHRAGM TO BE LEFT UNFINISHED</p> <p>NOTES: 1. CEDAR SOFFIT FASTENERS TO BE CONCEALED AND STAINLESS STEEL</p>	

Public Works and Government Services Canada / Travaux publics et Services gouvernementaux Canada		Real Property Services / Services Immobiliers Région de Pacifique	
TYPE	LOCATION	DESCRIPTION (ALL MATERIALS ARE NEW UNLESS NOTED OTHERWISE)	SCHEMATIC DETAILS (n.i.s.) (EXIST. CONSTRUCTION TO BE RETAINED SHOWN TONED)
Project title/Titre du projet: GULF OF GEORGIA CANNERY ADMIN. BUILDING 12138 Fourth Ave., Richmond B.C. Drawing title/Titre du dessin: WALL ASSEMBLY SCHEDULE ISSUED FOR TENDER - APRIL 10, 2017		RDH	
Consultant Signature Only: PCK Designed by/Concept par: PCK Drawn by/Dessiné par: ADEC		PWGSC Project Manager/Administrateur de Projets TPSGC: TOM DUNPHY Date/Date: AUG. 19, 2016 Project No./No. du projet: R.060702.001 Sheet/Feuille: SCH-0.01	

Public Works and Government Services Canada / Travaux publics et Services gouvernementaux Canada		Real Property Services / Services Immobiliers Région de Pacifique	
TYPE	LOCATION	DESCRIPTION (ALL MATERIALS ARE NEW UNLESS NOTED OTHERWISE)	SCHEMATIC DETAILS (n.i.s.) (EXIST. CONSTRUCTION TO BE RETAINED SHOWN TONED)
Project title/Titre du projet: GULF OF GEORGIA CANNERY ADMIN. BUILDING 12138 Fourth Ave., Richmond B.C. Drawing title/Titre du dessin: WALL ASSEMBLY SCHEDULE ISSUED FOR TENDER - APRIL 10, 2017		RDH	
Consultant Signature Only: PCK Designed by/Concept par: PCK Drawn by/Dessiné par: ADEC		PWGSC Project Manager/Administrateur de Projets TPSGC: TOM DUNPHY Date/Date: AUG. 19, 2016 Project No./No. du projet: R.060702.001 Sheet/Feuille: SCH-0.02	

Public Works and Government Services Canada / Travaux publics et Services gouvernementaux Canada		Real Property Services / Services Immobiliers Région de Pacifique	
TYPE	LOCATION	DESCRIPTION (ALL MATERIALS ARE NEW UNLESS NOTED OTHERWISE)	SCHEMATIC DETAILS (n.i.s.) (EXIST. CONSTRUCTION TO BE RETAINED SHOWN TONED)
Project title/Titre du projet: GULF OF GEORGIA CANNERY ADMIN. BUILDING 12138 Fourth Ave., Richmond B.C. Drawing title/Titre du dessin: ROOF ASSEMBLY SCHEDULE ISSUED FOR TENDER - APRIL 10, 2017		RDH	
Consultant Signature Only: PCK Designed by/Concept par: PCK Drawn by/Dessiné par: ADEC		PWGSC Project Manager/Administrateur de Projets TPSGC: TOM DUNPHY Date/Date: AUG. 19, 2016 Project No./No. du projet: R.060702.001 Sheet/Feuille: SCH-0.03	



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

REAL PROPERTY SERVICES / SERVICES IMMOBILIERS Région de Pacifique

# RDH

REGISTERED ARCHITECT / ARCHITECTE ENREGISTRÉ

April 10, 2017

4	ISSUED FOR TENDER	APR. 10, 2017
3	ISSUED FOR TENDER	FEB. 22, 2017
2	ISSUED FOR 99% REVIEW	OCT. 24, 2016
1	ISSUED FOR REVIEW	AUG. 19, 2016

Client / client: PARKS CANADA WESTERN REGION STEVENSON, B.C. NATIONAL HISTORIC SITE

Project title / Titre du projet: GULF OF GEORGIA CANNERY ADMINISTRATION BUILDING  
12138 Fourth Ave., Richmond B.C.

Consultant Approval Box Only

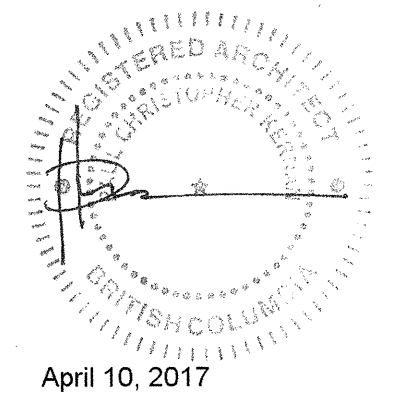
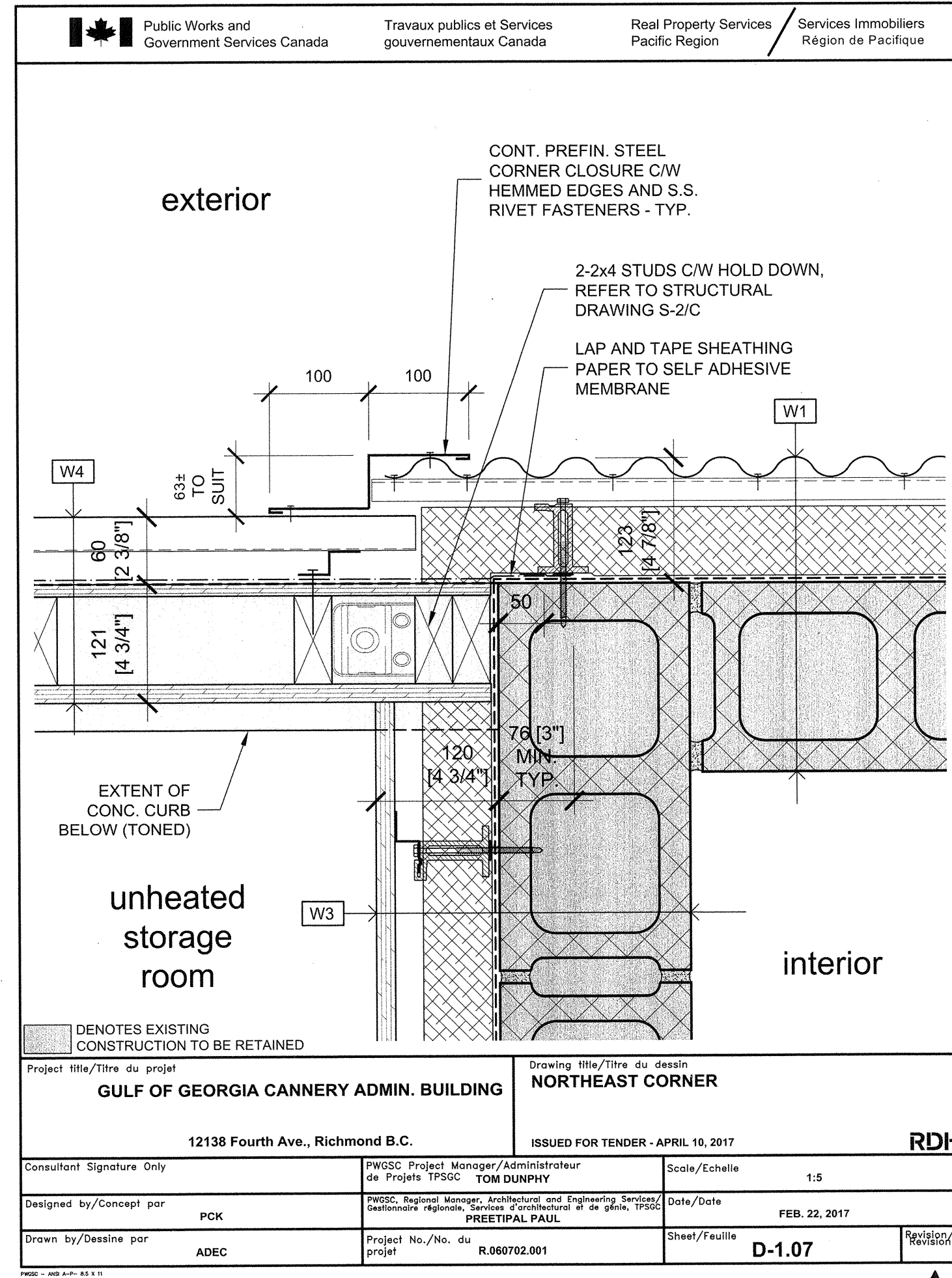
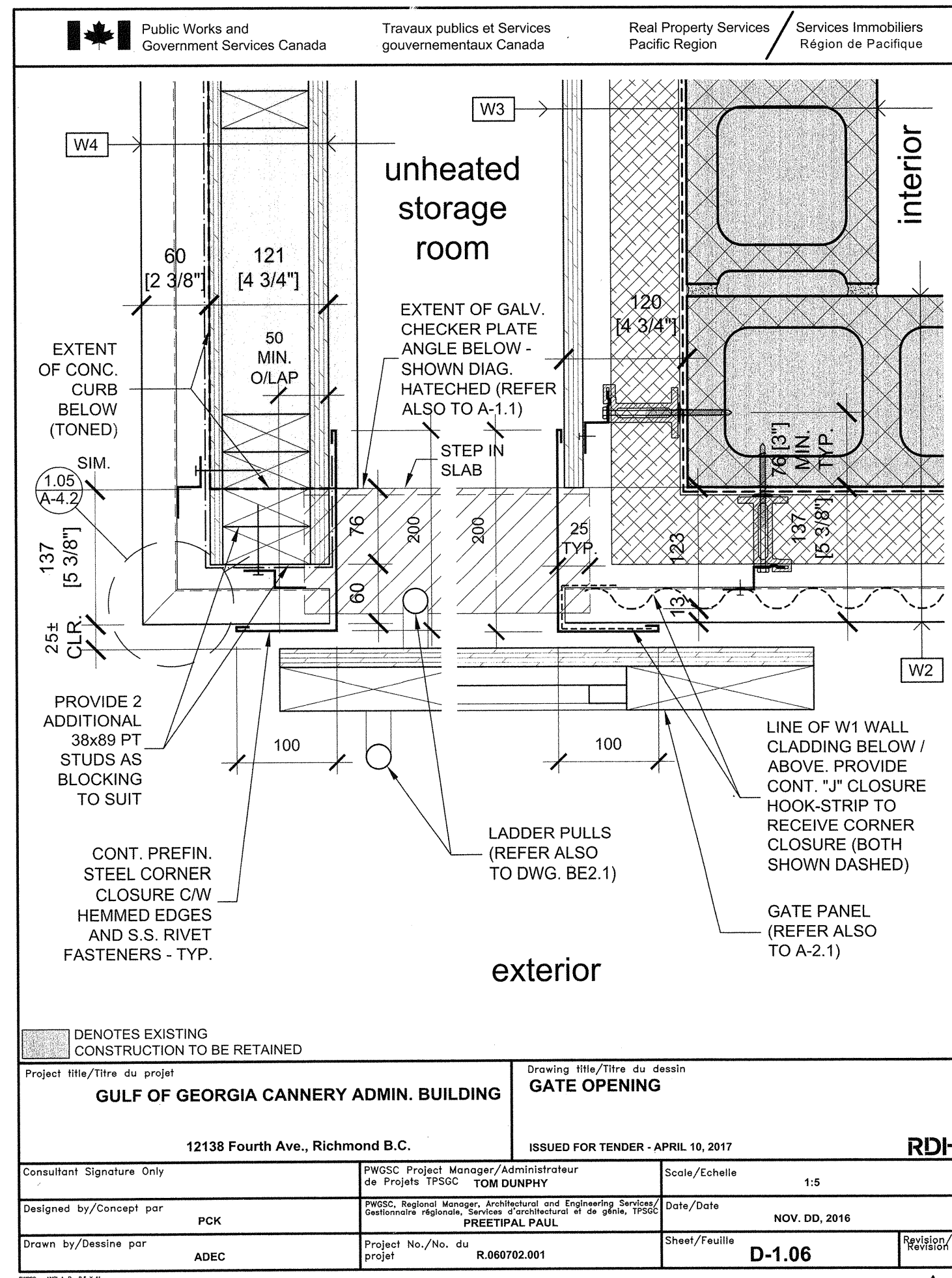
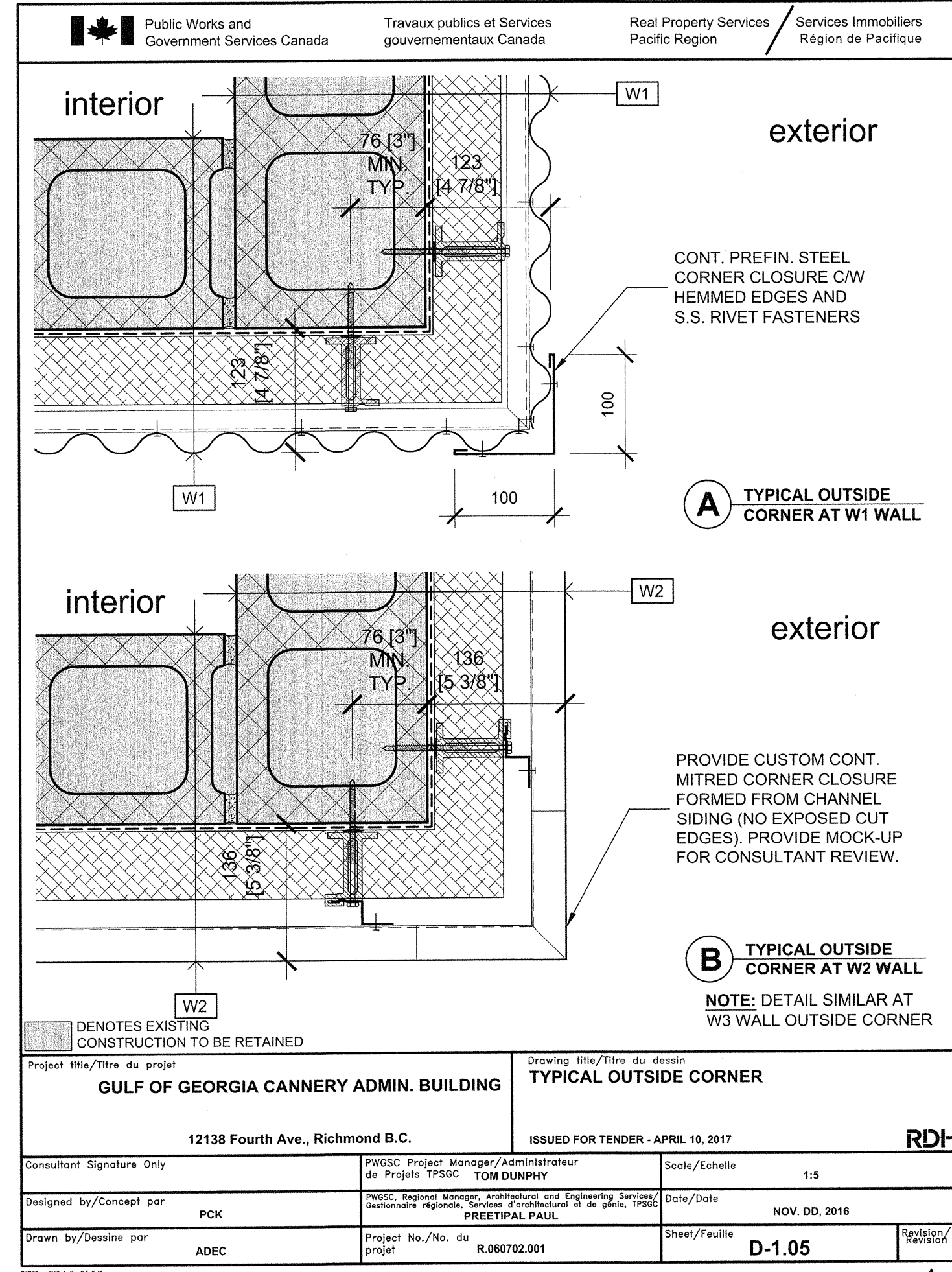
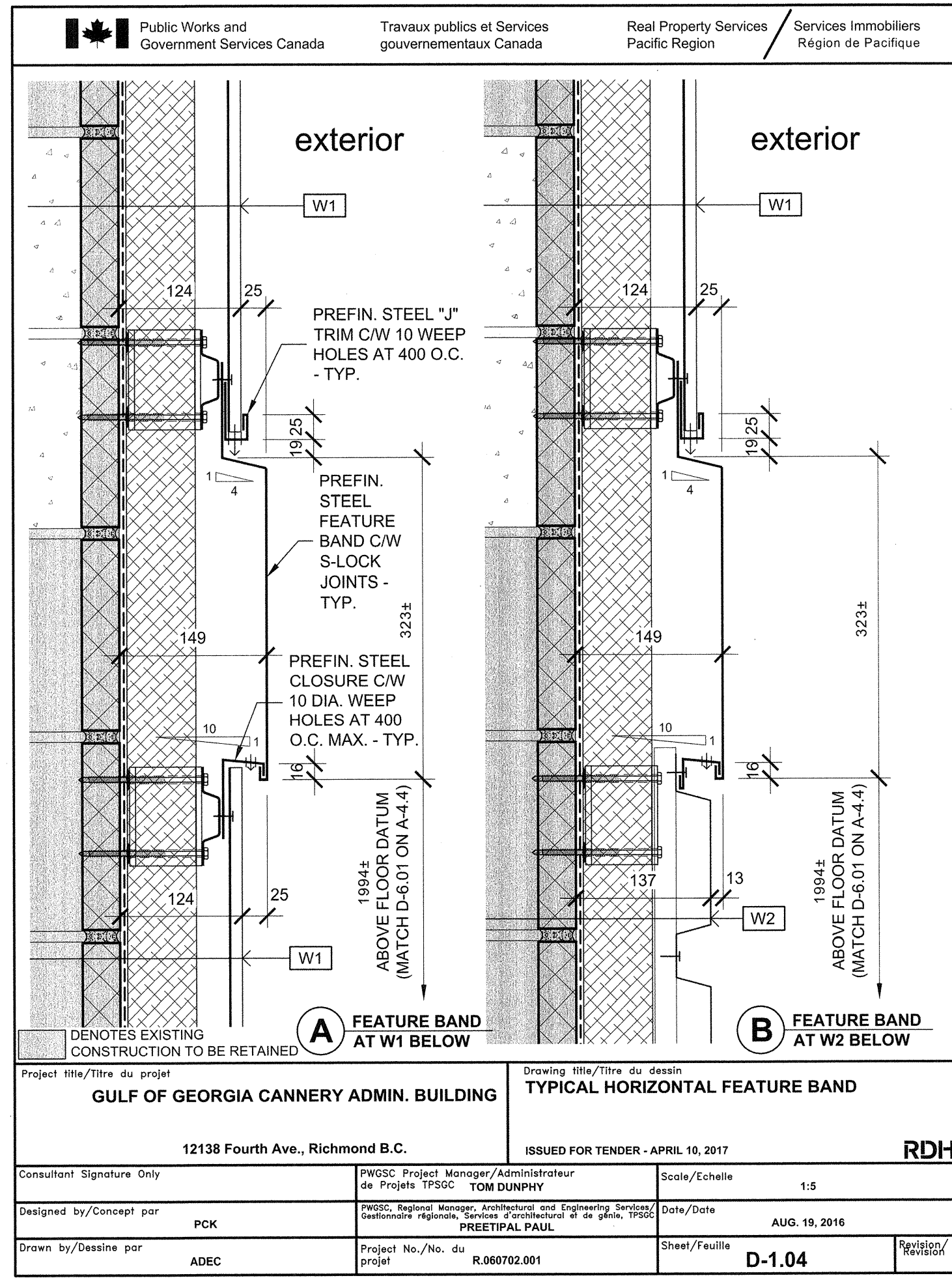
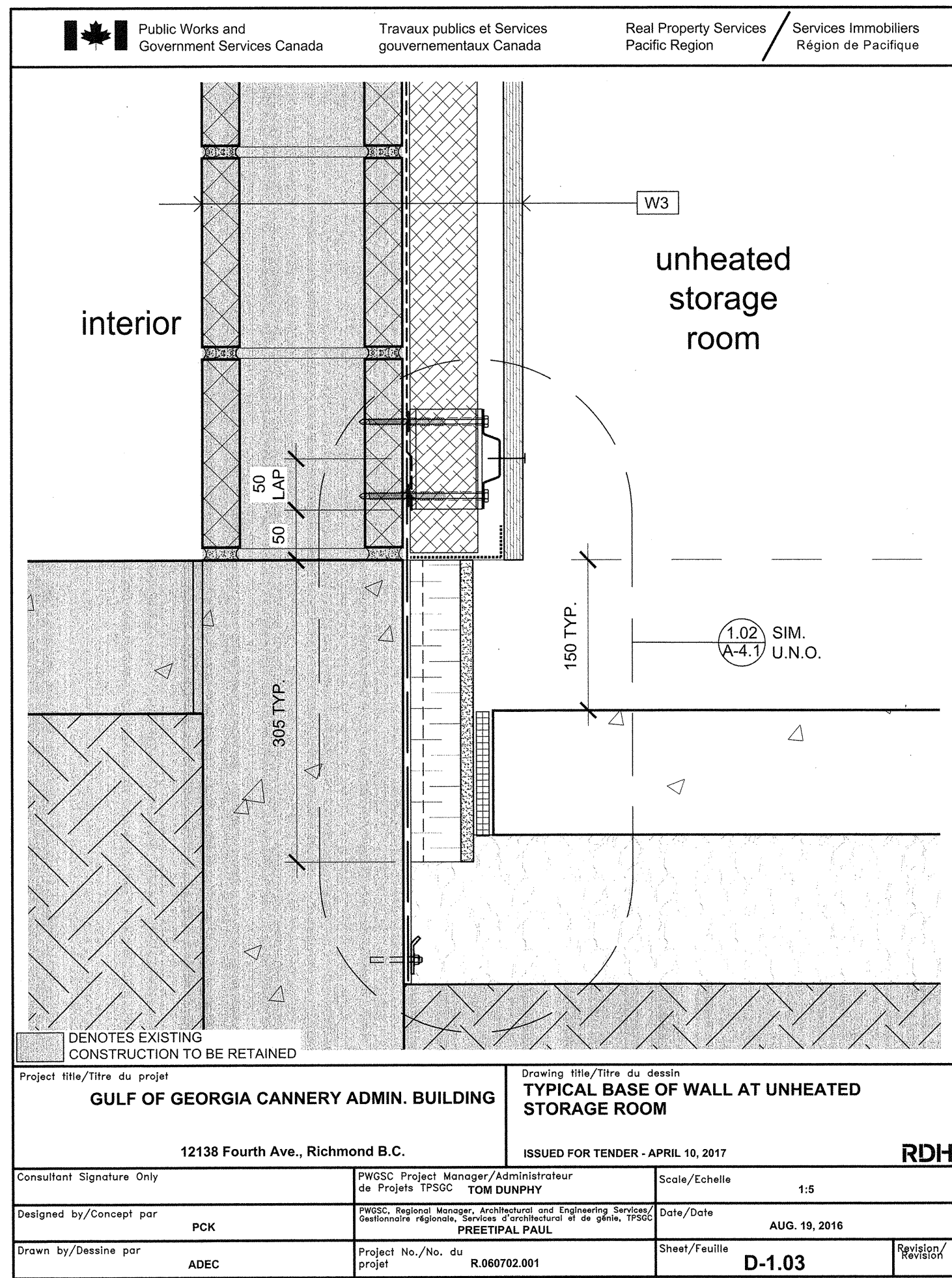
Designed by / Concept par: PCK  
Drawn by / Dessiné par: AC

PWGSC Project Manager / Administrateur de Projets TPSGC: TOM DUNPHY  
PWGSC Regional Manager, Architectural and Engineering Services / Gestionnaire régional, Services d'architecture et de génie: TPSSGC: PREETIPAL PAUL

Drawing title / Titre du dessin: SCHEDULES AND DETAIL DRAWINGS  
SCALE: AS INDICATED

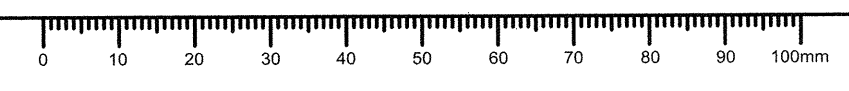
Project no. / No. du projet: R.060702.001  
Sheet / Feuille: A-4.1  
Revision no. / Révision no.:

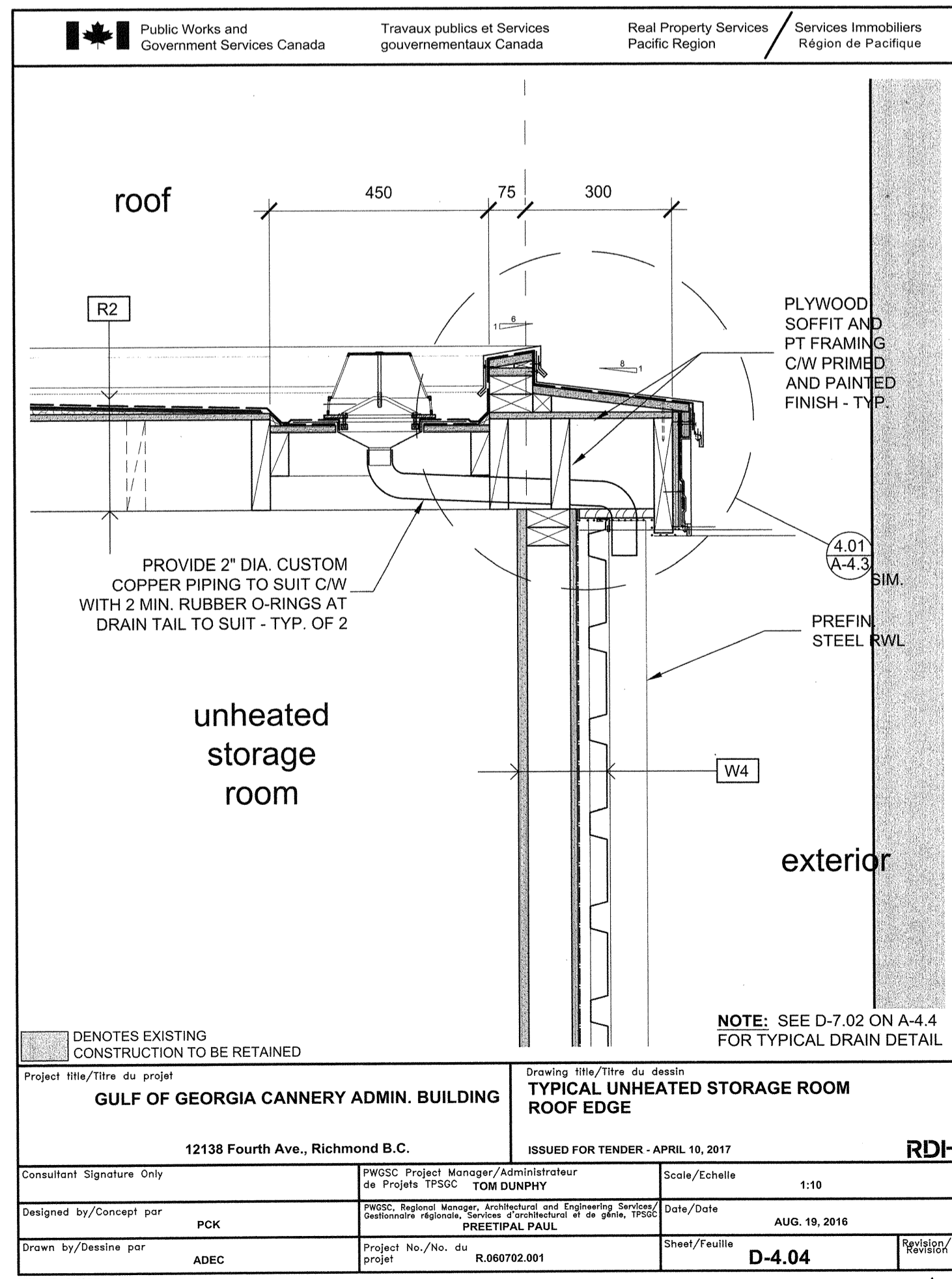
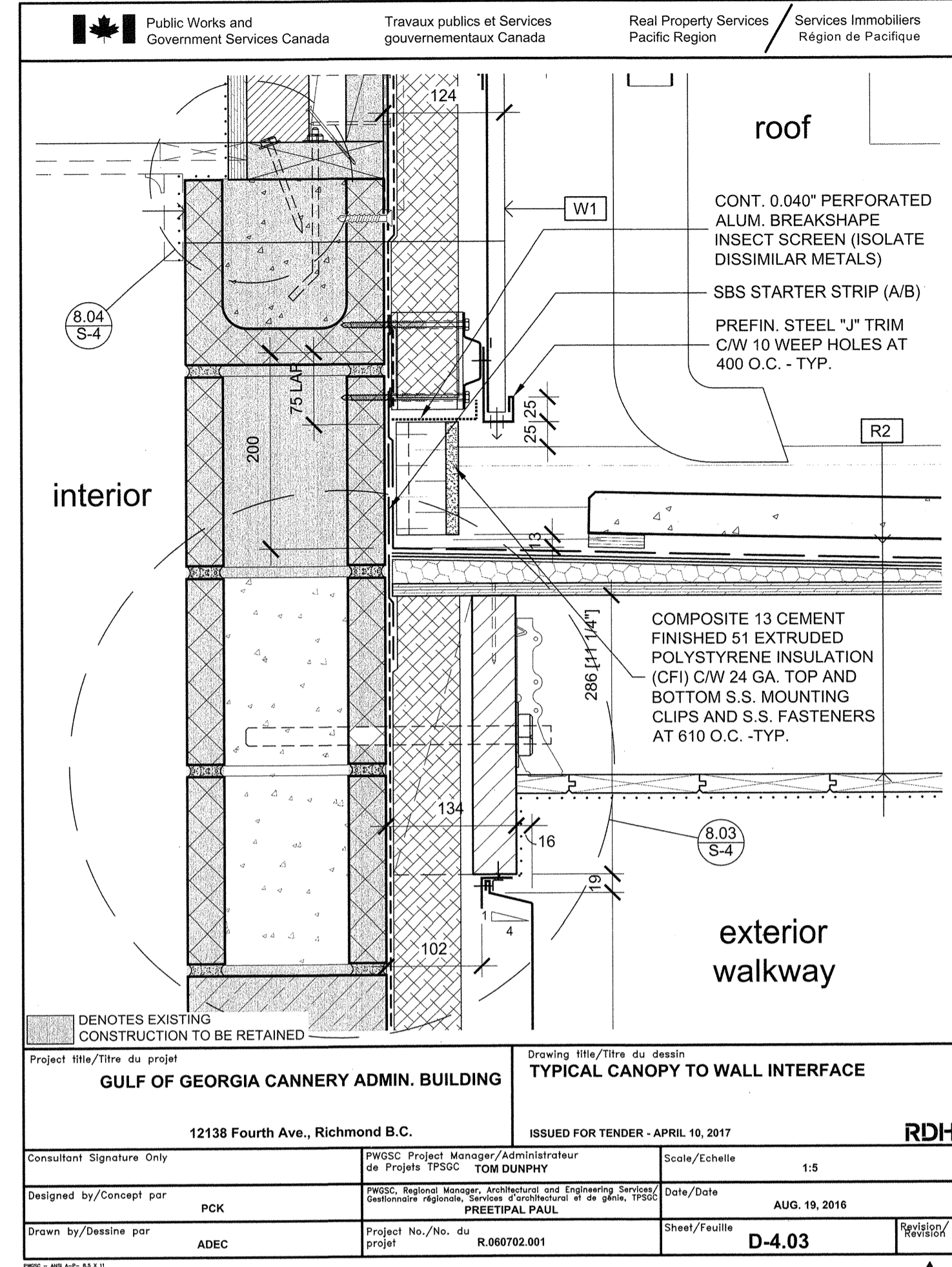
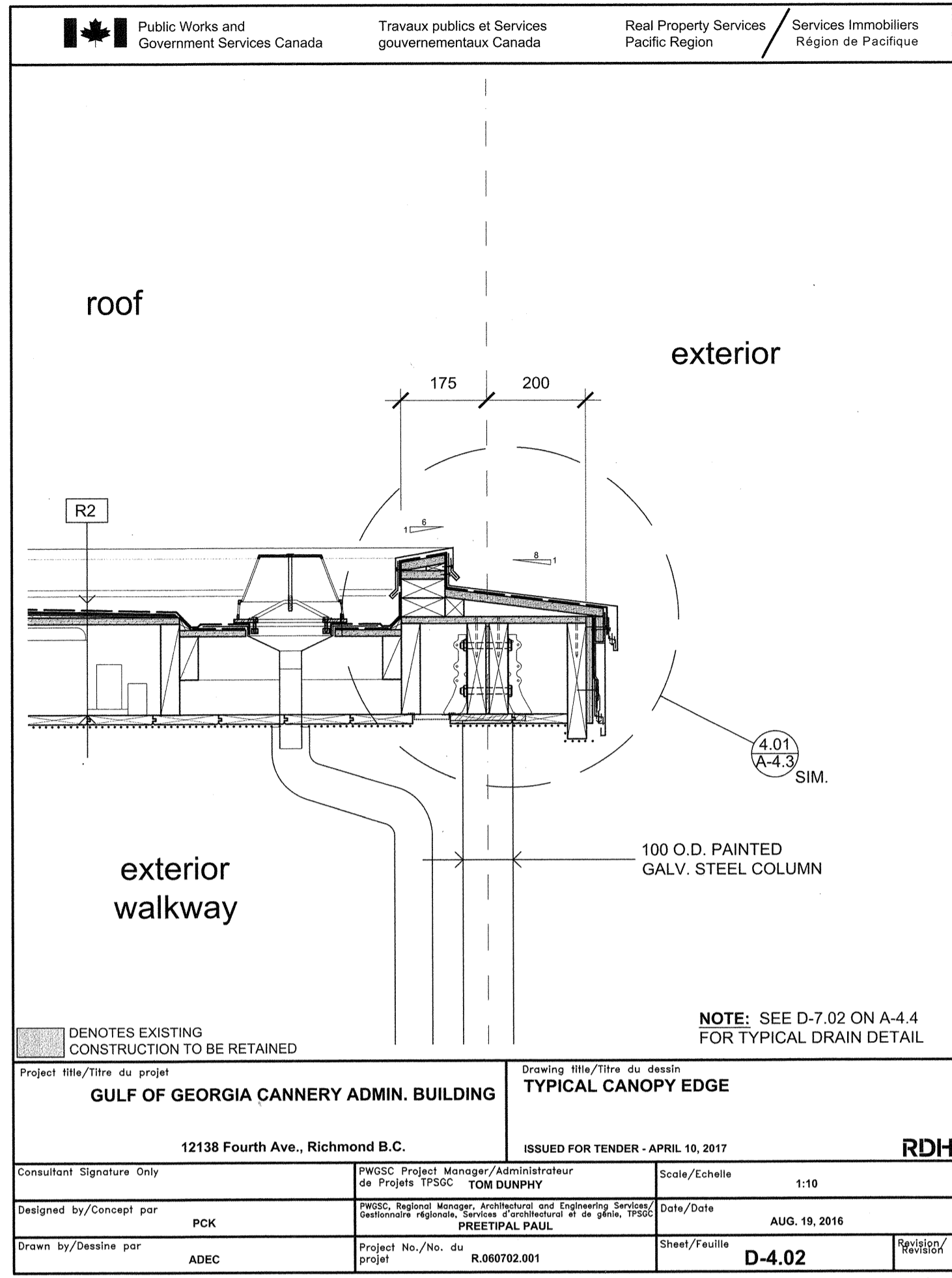
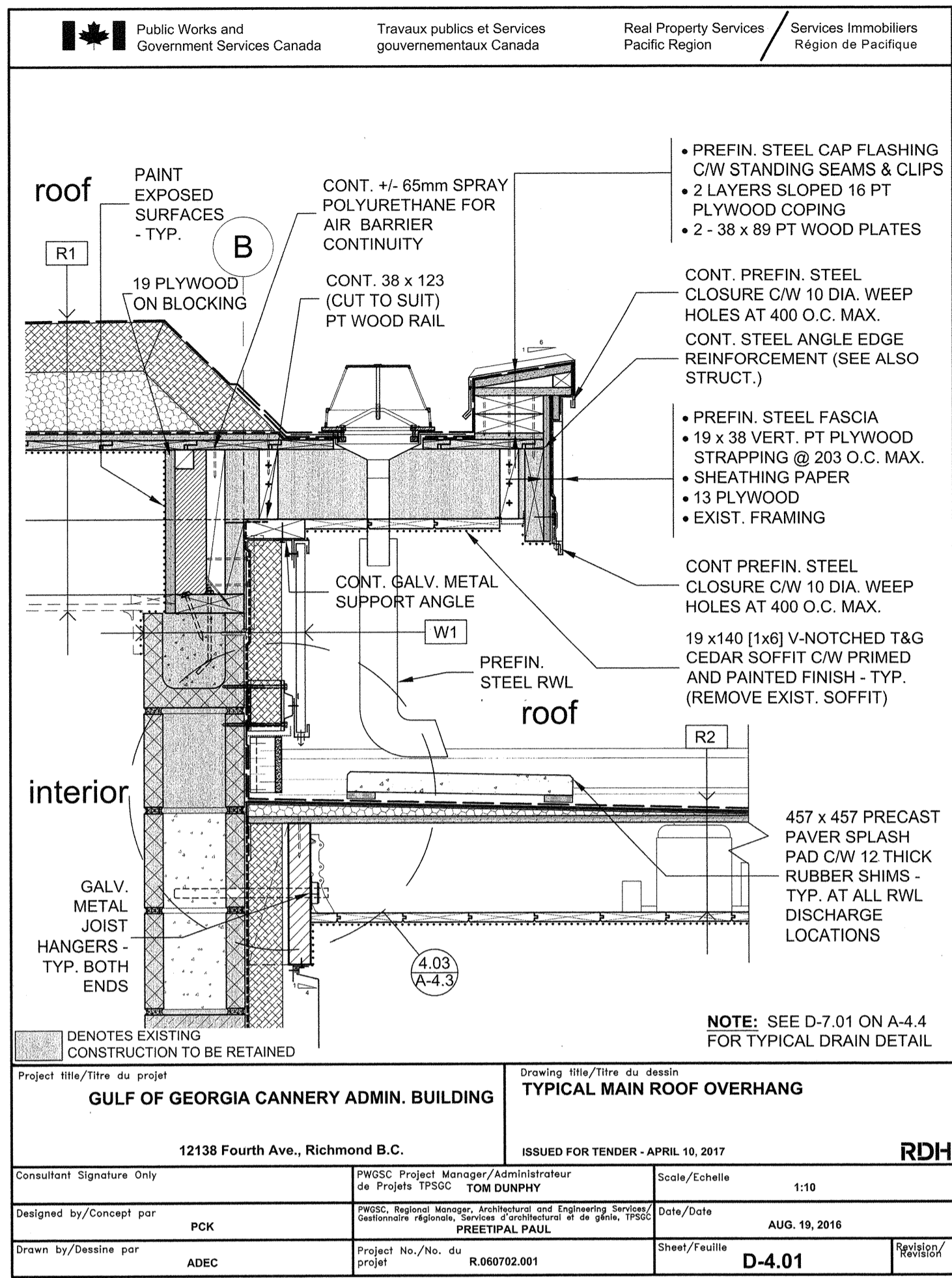




Revision / Revision	Description / Description	Date / Date
4	ISSUED FOR TENDER	APR. 10, 2017
3	ISSUED FOR TENDER	FEB. 22, 2017
2	ISSUED FOR 99% REVIEW	OCT. 24, 2016
1	ISSUED FOR REVIEW	AUG. 19, 2016

Client / client	PARKS CANADA WESTERN REGION STEVESTON, B.C. NATIONAL HISTORIC SITE	
Project title / Titre du projet	GULF OF GEORGIA CANNERY ADMINISTRATION BUILDING	
	12138 Fourth Ave., Richmond B.C.	
Consultant Approval/Box Only	PK	
Designed by / Concept par	AC	
Drawn by / Dessiné par	ADEC	
PWSGC Project Manager / Administrateur de Projets TPSGC	TOM DUNPHY	
PWSGC Regional Manager, Architectural and Engineering Services / Gestionnaire régional, Services d'architecture et de génie TPSGC	PREETIPAL PAUL	
Drawing title / Titre du dessin	DETAIL DRAWINGS SCALE: AS INDICATED	
Project no. / no. du projet	Sheet / Feuille	Revision no. / Révision no.
R.060702.001	A-4.2	





Public Works and Government Services Canada / Travaux publics et Services gouvernementaux Canada / Real Property Services Pacific Region / Services Immobiliers Région de Pacifique

REAL PROPERTY SERVICES Pacific Region / SERVICES IMMOBILIERS Région de Pacifique

# RDH

April 10, 2017

4	ISSUED FOR TENDER	APR. 10, 2017
3	ISSUED FOR TENDER	FEB. 22, 2017
2	ISSUED FOR 99% REVIEW	OCT. 24, 2016
1	ISSUED FOR REVIEW	AUG. 19, 2016
Revision /	Description / Description	Date / Date

Client / client: **PARKS CANADA WESTERN REGION STEVESTON, B.C. NATIONAL HISTORIC SITE**

Project title / Titre du projet: **GULF OF GEORGIA CANNERY ADMINISTRATION BUILDING**  
 12138 Fourth Ave., Richmond B.C.

Consultant Approval Box Only

Designed by / Concept par: **PK**

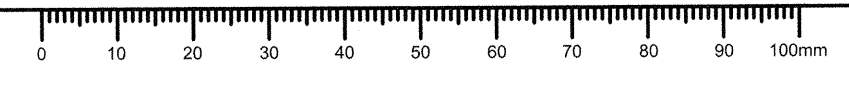
Drawn by / Dessiné par: **AC**

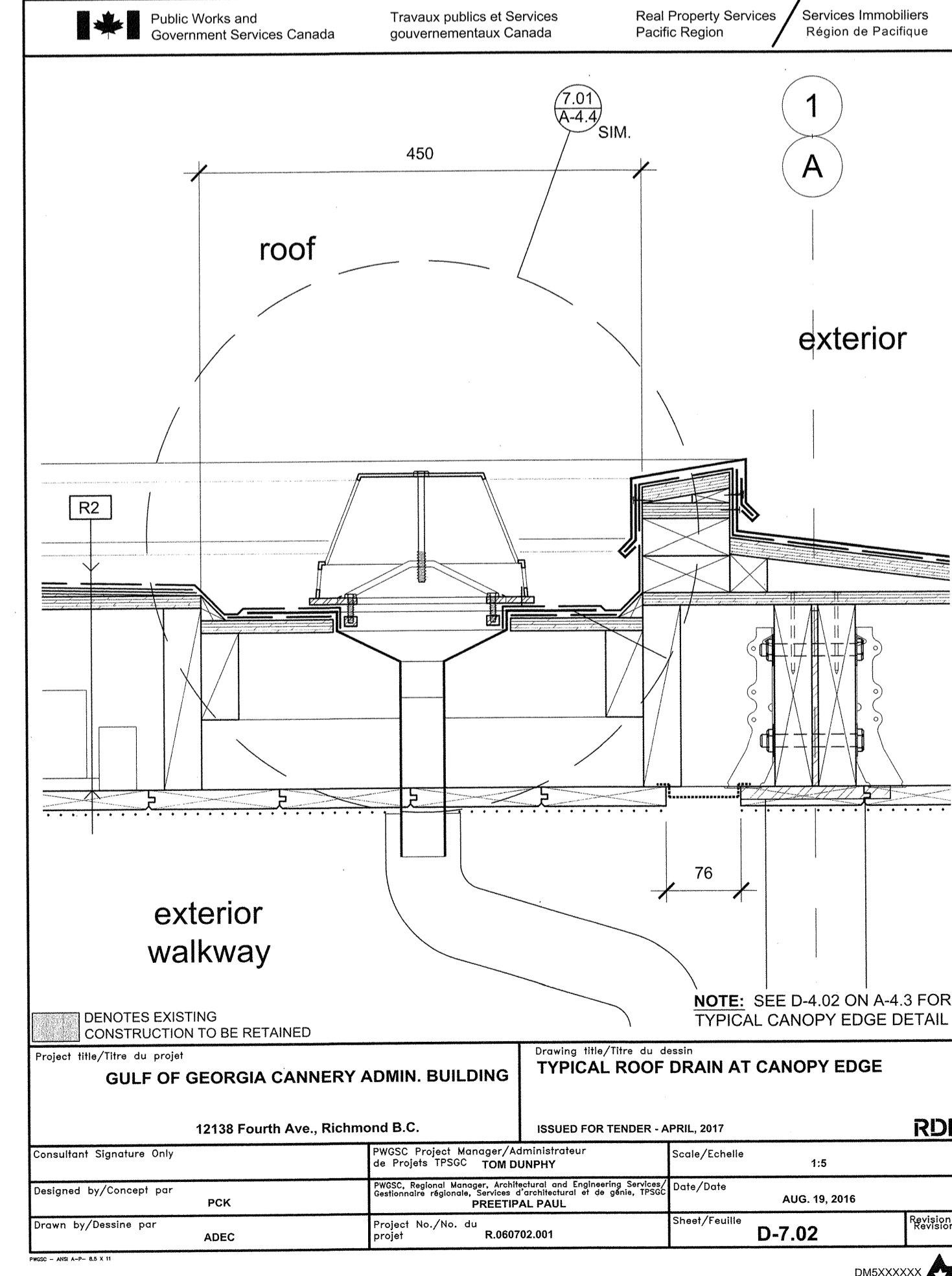
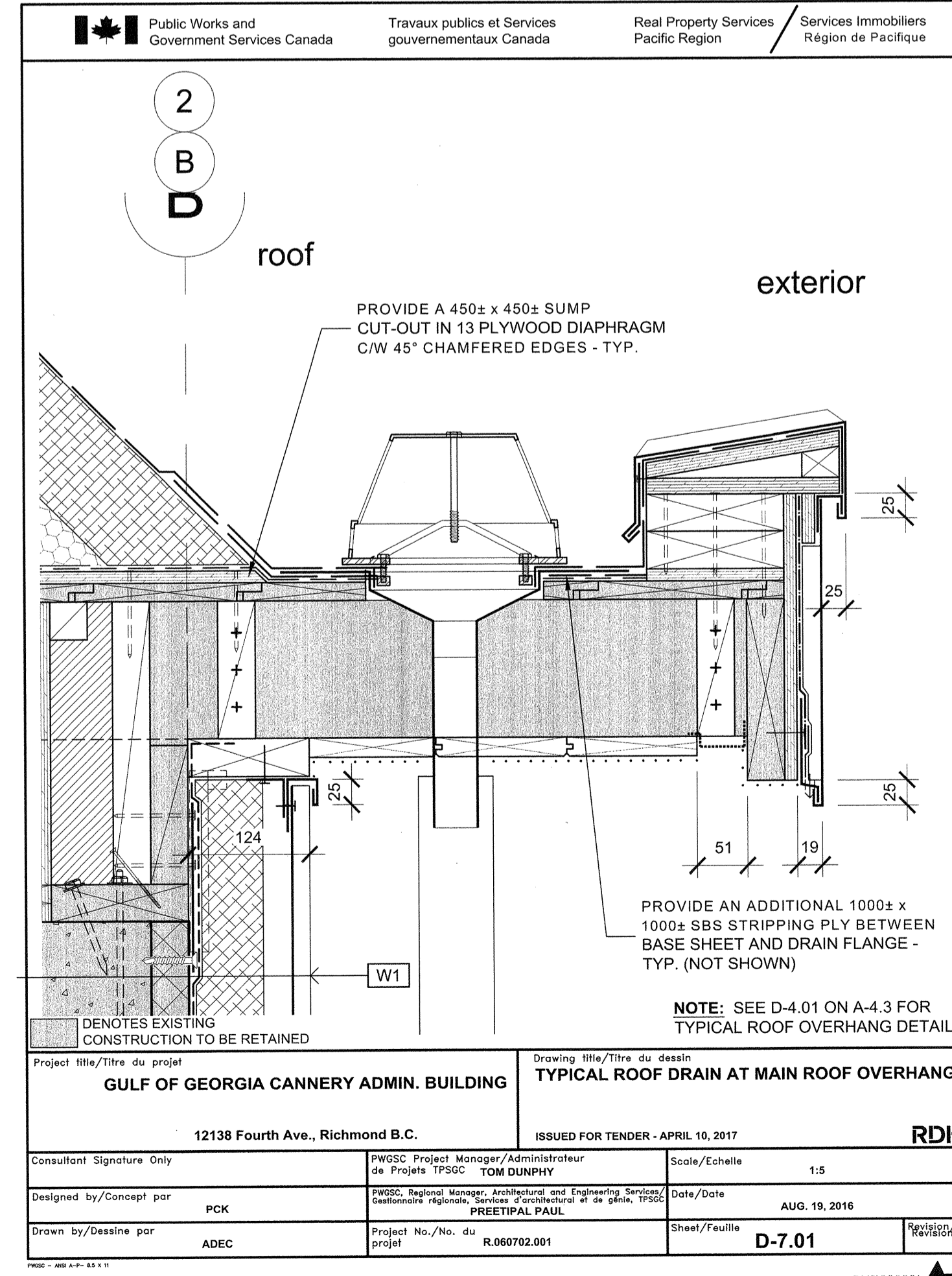
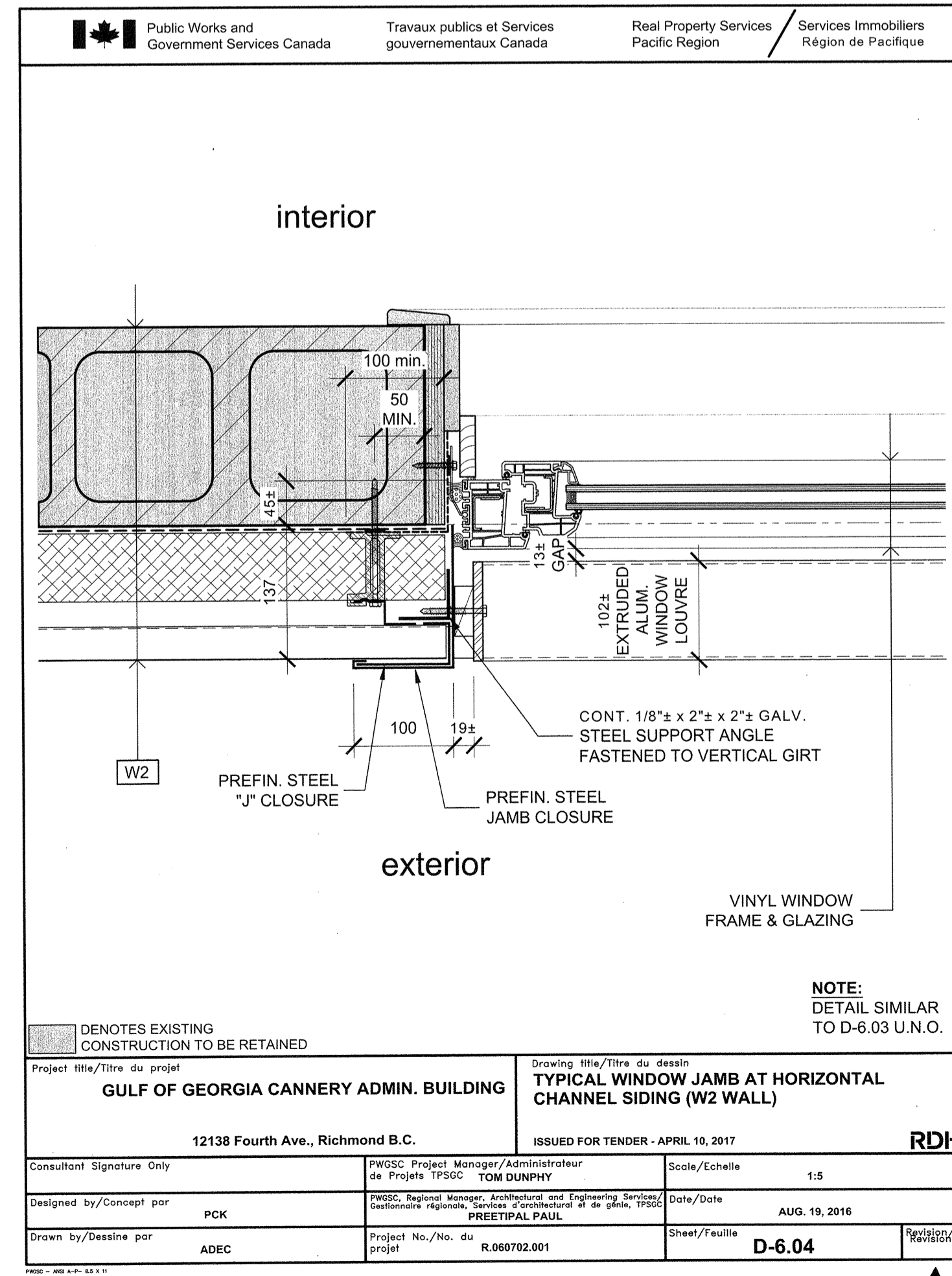
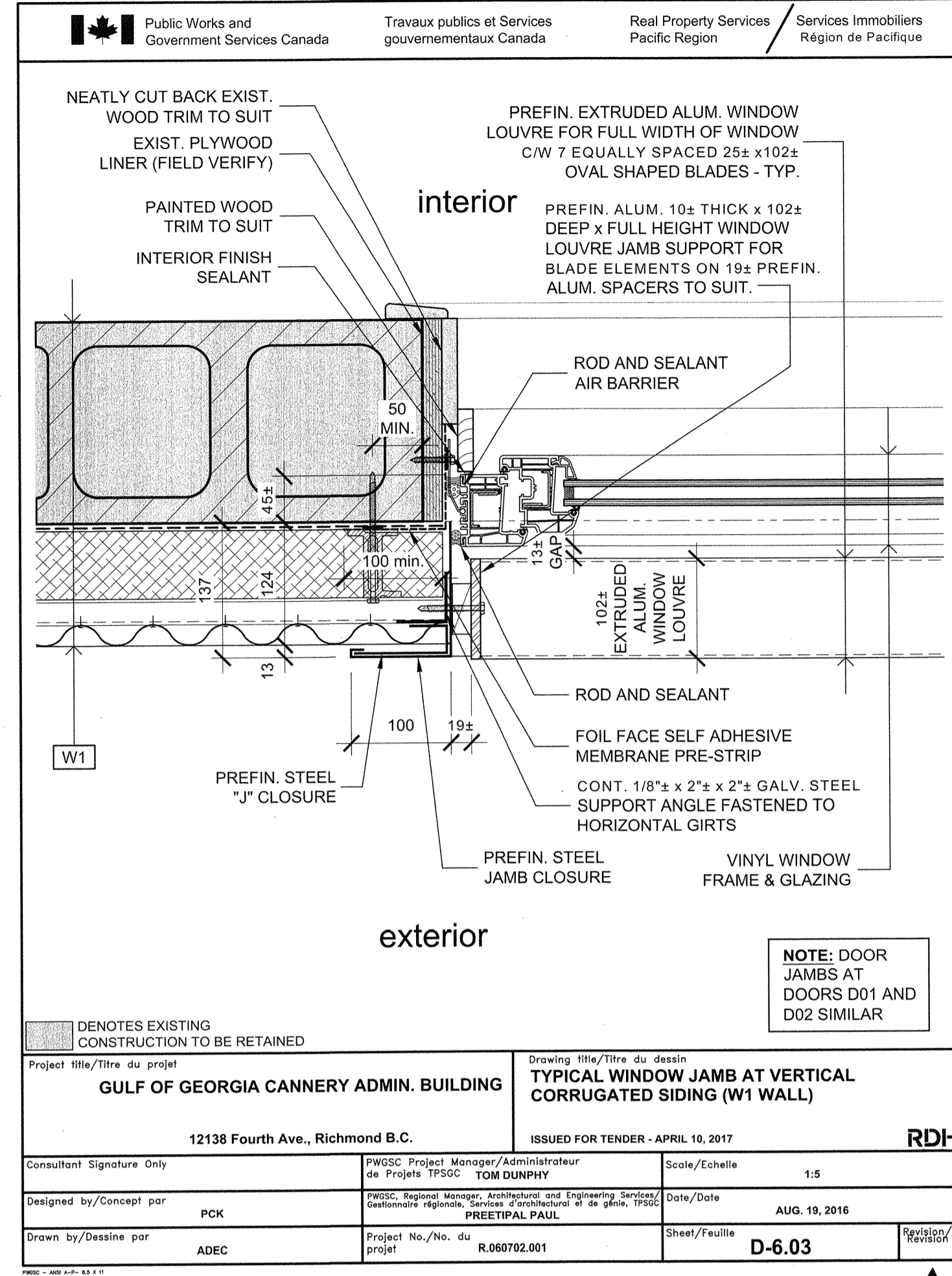
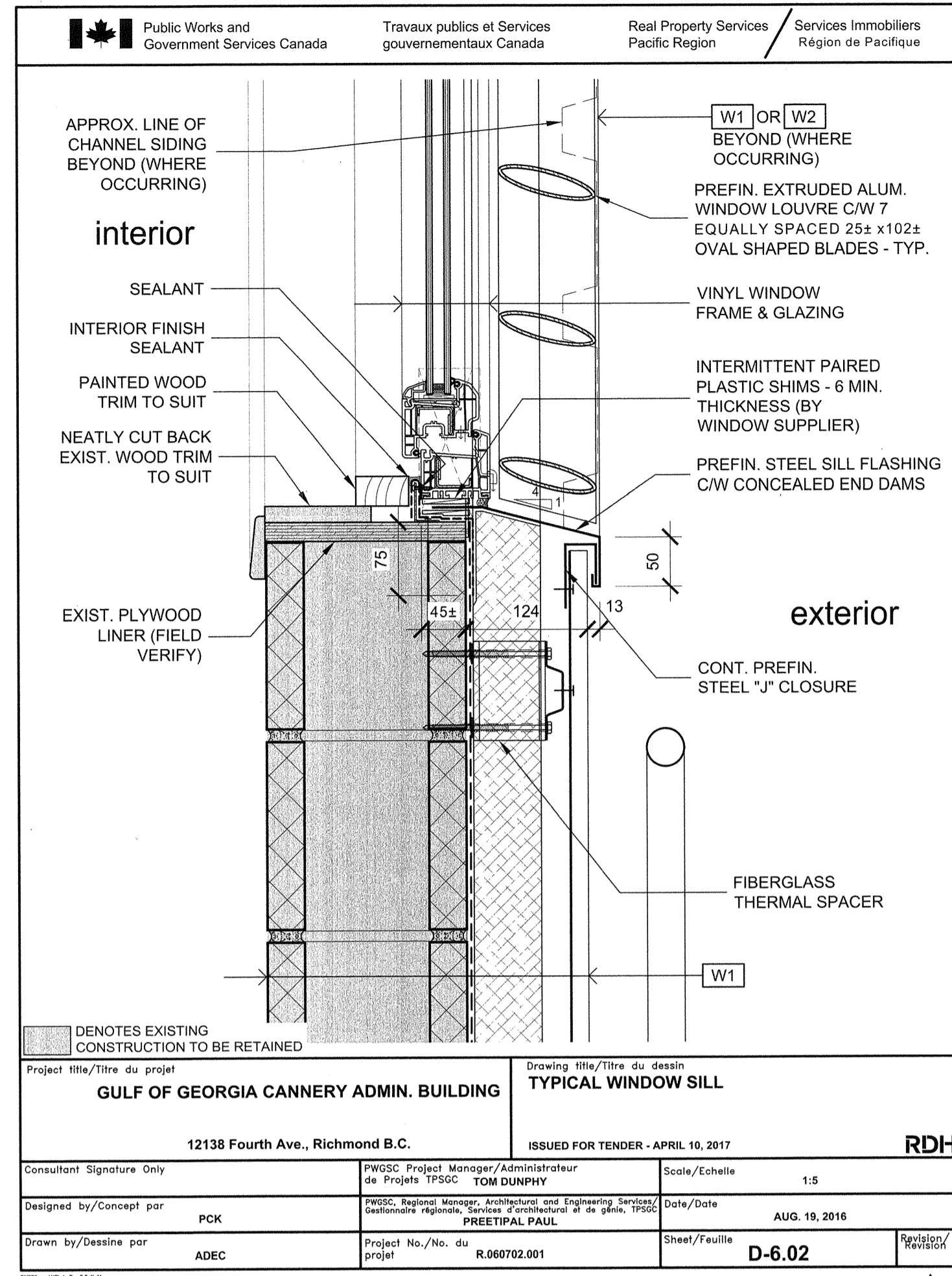
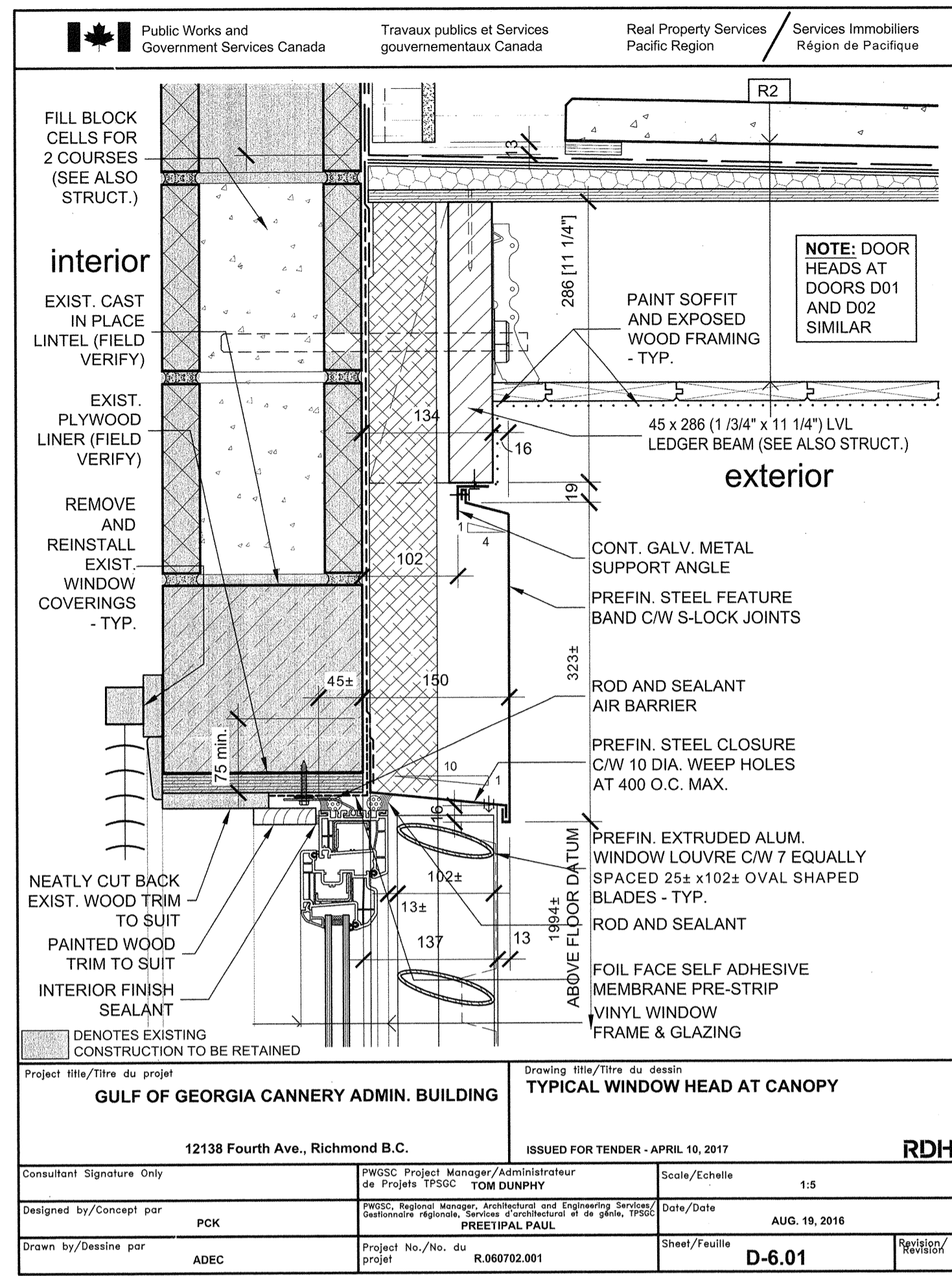
PWSSC, Project Manager / Administrateur de Projets TPSGC: **TOM DUNPHY**

PWSSC, Regional Manager, Architectural and Engineering Services / Gestionnaire régionale, Services d'architecture et de génie, TPSGC: **PREETIPAL PAUL**

Drawing title / Titre du dessin: **DETAIL DRAWINGS SCALE: AS INDICATED**

Project no. / no. du projet: **R.060702.001** | Sheet / Feuille: **A-4.3** | Revision no. / La Révision no.: **1**





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

Real Property Services / Services Immobiliers / Région de Pacifique

**RDH**

REGISTERED ARCHITECT / ARCHITECTE ENREGISTRÉ / BRITISH COLUMBIA

April 10, 2017

4	ISSUED FOR TENDER	APR. 10, 2017
3	ISSUED FOR TENDER	FEB. 22, 2017
2	ISSUED FOR 99% REVIEW	OCT. 24, 2016
1	ISSUED FOR REVIEW	AUG. 19, 2016

Client / client: **PARKS CANADA WESTERN REGION STEVESTON, B.C. NATIONAL HISTORIC SITE**

Project title / Titre du projet: **GULF OF GEORGIA CANNERY ADMINISTRATION BUILDING**

12138 Fourth Ave., Richmond B.C.

Consultant Approval Box Only: PCK

Designed by / Concept par: PCK

Drawn by / Dessiné par: AC

PWGSC, Project Manager / Administrateur de Projets TPSGC: TOM DUNPHY

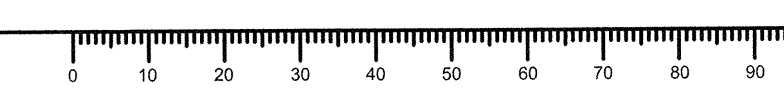
PWGSC, Regional Manager, Architectural and Engineering Services / Gestionnaire régionale, Services d'architecture et de génie, TPSGC: PREETIPAL PAUL

Drawing title / Titre du dessin: **DETAIL DRAWINGS SCALE: AS INDICATED**

Project no. / no. du projet: R.060702.001

Sheet / Feuille: A-4.4

Revision no. / Révision no.: [ ]



**STRUCTURAL NOTES:**

**GENERAL:**

The structural portions of this project have been designed in accordance with the 2015 National Building Code of Canada, Part 4.

1. Drawings were prepared based on original architectural drawings dated April 1967. Original architect unknown.

2. Contractor to verify all dimensions and conditions on site prior to commencement of work. Departmental Representative shall be informed of any variations as shown on the drawings. Dimensions shown on the drawings are based on existing drawing information. Contractors and trades are responsible to confirm any dimensions relied upon for pricing purposes. The building is existing and available for review.

**CLIMATIC / LOADING DATA:**

**Snow Loading:**  $S_s = 1.5 \text{ kPa}$   $S_r = 0.2 \text{ kPa}$   $C_b = 0.80$   $I_s = 1.0$   
Roofs have been designed to support the above noted snow loading plus snow accumulation as indicated on the roof plans.

**Wind (q/50):**  $0.45 \text{ kPa}$   $I_w = 1.0$

**Seismic:**  $S_a(0.2) = 0.885$   $PGA = 0.383$   
 $S_a(0.5) = 0.787$   $PGV = 0.578$   
 $S_a(1.0) = 0.443$  Site Class E  
 $S_a(2.0) = 0.266$   $R_D = R_o = 1.0$  Unreinforced Masonry Construction  
 $S_a(5.0) = 0.083$   $I_E = 1$

New construction (the canopy and the unheated storage room) has been designed to resist seismic loading that has been determined in accordance with Part 4, 2015 NBC. Upgrades to the existing building (administration building) have been designed to resist at least 60% of the seismic loading that has been determined in accordance with Part 4, 2015 NBC.

**Roof Dead Loads:** Canopy & Unheated Storage Room:  $0.72 \text{ kPa}$   
Admin Building:  $0.6 \text{ kPa}$

**Roof Live Loads:** Canopy & Unheated Storage Room:  
No allowance for live loads - roofs have been designed to support dead and snow loads only.  
Administration Building Roof:  
Roof has been designed to support a live load of  $0.35 \text{ kPa}$  in addition to dead and snow loads.

**TIMBER FRAMING:**

- Refer to project specifications.
- Laminate built-up beams as follows:
  - Up to three plies - nail each ply together with 3 rows of 75mm common nails at 300 mm o.c.
  - Four plies shall be bolted with 2 rows of 12.5 mm diam. bolts, each row at 300 mm o.c., stagger rows.
- All built-up studs to be laminated together with 2 rows of 75 mm common nails at 225 mm o.c.
- Studs supporting built-up beams shall have the same thickness, or the equivalent number of laminations as the built-up beam, unless noted otherwise.
- Posts and built-up studs are to be continuous to the foundation unless noted otherwise.
- All flush framed members shall be supported by appropriate steel hangers. Submit proposed hangers to Departmental Representative for approval.
- Fasteners:

NAILS		SCREWS	
Designation	Diameter (mm)	Designation	Diameter (mm)
65mm Common	3.25	#6 Wood Screw	3.50
75mm Wire	3.66	#8 Wood Screw	4.16
89mm Wire	4.06	#10 Wood Screw	4.82
8d Common	3.32	#12 Wood Screw	5.48
10d Common	3.76		
16d Common	4.11		

**CONCRETE WORK:**

- Refer to project specifications.
- Concrete shall be mixed and placed in accordance with CSA A23.1
- All new concrete shall conform to the following requirements:

	FOOTINGS	EXTERIOR SLAB ON GRADE	INTERIOR SLAB ON GRADE	WALLS / PIERS
CSA Exposure Class:	N	C-1	N	F-2
Min. 28 Day Compressive Strength:	25 MPa	35 MPa	30 MPa	25 MPa
Max. W/C Ratio:	As required	0.4	As required	0.55
Max. Aggregate Size:	19mm	19mm	19mm	19mm
Cement Type:	GU	GU	GU	GU
Air Content:	As required	5 - 8%	As required	4 - 7%
Curing:	Type 1	Type 1	Type 1	Type 1

4. Unless noted otherwise, provide clear concrete cover to rebar as follows:

- Surfaces poured against ground: 75mm
- Formed surfaces exposed to ground or weather: 50mm
- Other formed surfaces: 25mm

5. Reinforcing steel to be fabricated from deformed billet steel of the following grades:

- 10M and larger bars: CSA G30.18 Grade 400 MPa
- Welded Wire Mesh: CSA G30.15 Grade 300 MPa

**MASONRY:**

- Refer to project specifications.
- Masonry mortar to be Type S.
- Masonry block units to be hollow concrete 20 MPa.
- Masonry grout to be 20 MPa concrete 9mm aggregate, 150 mm slump.
- Reinforcing steel to be CSA G30.18 Grade 400 MPa.

**GEOTECHNICAL:**

1. Refer to Geotechnical Report Number 14364 - Revision 1, Dated November 25, 2016, prepared by Geopacific Consultants Inc.

2. Footings have been designed based on the following:

- Service Limit State Bearing Capacity: 75 kPa
- Ultimate Limit State Bearing Capacity: 150 kPa

3. Bearing Strata to be reviewed by geotechnical engineer prior to casting.

**FIELD REVIEWS:**

- Refer to project specifications.
- Field review is at the professional discretion of the Departmental Representative and is to ascertain general compliance with the structural plans and supporting documents for the integrity of the primary structural components of the building only. Field review does not make the Departmental Representative guarantors of the contractor's work. Field review is not for the benefit of the contractor(s) and may not form part of the contractor's construction quality control, which shall remain the responsibility of the contractor(s). The Departmental Representative shall not be responsible for the acts or omissions of the contractor(s) or for their failure to fulfill the intent of the design drawings.
- The Departmental Representative is to be notified 24 hours in advance of any work requiring a field review.
- The following items shall be reviewed by the Departmental Representative:
  - All rebar prior to pouring of concrete or grout. Copies of concrete delivery slips also shall be forwarded to the Departmental Representative within 24 hours of pour.
  - Structural steel prior to covering up.
  - Timber framing prior to sheathing;
  - Sheathing prior to finishing

**TABLE 1: FOOTING SCHEDULE**

	SIZE & THICKNESS	REINFORCING
F1	610 WIDE x 250 THICK CONTINUOUS STRIP FOOTING	10M x 460 @ 200 o.c. BLL PLUS 3-10M CONTINUOUS BUL
F2	900 WIDE x 1250 LONG x 250 THICK	SEE S-2 7-10M x 750 BOTTOM BLL +3 - 10M CONT. BUL +2 - 10M x 1100 BUL
F3	610 WIDE x 250 THICK CONTINUOUS STRIP FOOTING	3-10M CONT. BUL + 10M @ 200 DOWELS SEE D-8.02

**ABBREVIATIONS:**

HEF HORIZONTAL EACH FACE  
VEF VERTICAL EACH FACE  
BEW BOTTOM EACH WAY  
CONT. CONTINUOUS  
SD SHORT DIRECTION  
LD LONG DIRECTION  
BLL BOTTOM LOWER LAYER  
BUL BOTTOM UPPER LAYER  
TUL TOP UPPER LAYER  
TLL TOP LOWER LAYER

**NOTE:** LAP CONTINUOUS BARS AT CORNERS AND SPLICES IN ACCORDANCE WITH TABLES 2, 3 & 4

**TABLE 2: TYPICAL REBAR SPLICE LENGTHS**

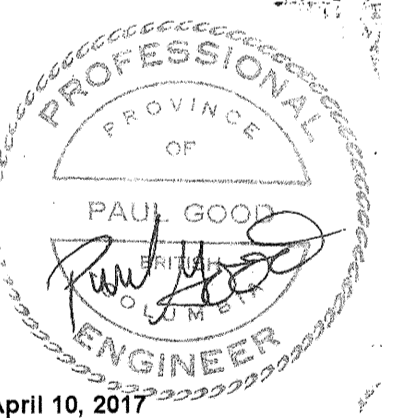
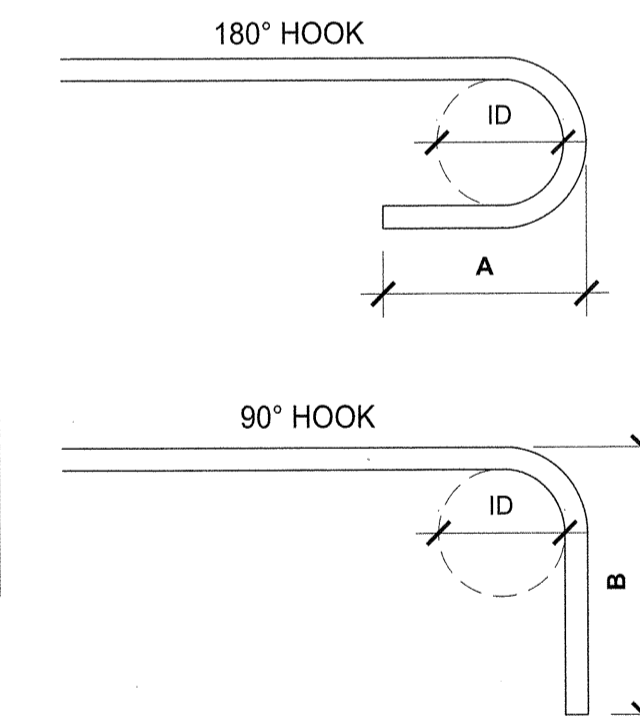
28 DAY CONCRETE OR MORTAR STR., MPa (f <sub>c</sub> )	BAR SIZE					
	10M	15M	20M	25M	30M	35M
20	475 (19")	675 (27")	825 (33")	1325 (53")	1575 (62")	1875 (74")
25	425 (17")	600 (24")	725 (29")	1175 (47")	1400 (56")	1675 (66")
30	400 (16")	550 (22")	675 (27")	1075 (43")	1275 (50")	1525 (60")
35	375 (15")	500 (20")	625 (25")	1000 (40")	1200 (48")	1425 (56")

**TABLE 3: SPLICES FOR HORIZONTAL BARS WITH >300mm OF CONCRETE CAST BELOW**

28 DAY CONCRETE OR MORTAR STR., MPa (f <sub>c</sub> )	BAR SIZE					
	10M	15M	20M	25M	30M	35M
20	550 (22")	800 (32")	1075 (43")	1700 (67")	2050 (81")	2375 (94")
25	500 (20")	725 (29")	975 (39")	1525 (60")	1825 (72")	2125 (84")
30	450 (18")	650 (26")	900 (36")	1375 (54")	1675 (66")	1950 (77")
35	400 (16")	625 (25")	825 (33")	1275 (51")	1525 (60")	1800 (71")
40	400 (16")	575 (23")	775 (31")	1200 (48")	1425 (56")	1700 (67")

**TABLE 4: STANDARD HOOK DETAILING & DIMENSIONS**

BAR SIZE	INNER DIAMETER mm (in)	180° HOOK LENGTH A mm (in)	90° HOOK LENGTH B mm (in)
10M	70 (2 3/4")	125 (5")	150 (6")
15M	100 (4")	125 (5")	225 (9")
20M	120 (4 3/4")	175 (7")	260 (10")
25M	150 (6")	200 (8")	350 (14")
30M	250 (10")	275 (11")	425 (17")
35M	300 (12")	325 (13")	525 (21")



5	ISSUED FOR TENDER	APR. 10, 2017
4	RE-ISSUED FOR STRUCT. REVIEW	APR. 03, 2017
3	ISSUED FOR TENDER	FEB. 22, 2017
2	ISSUED FOR 99% REVIEW	OCT. 24, 2016
1	ISSUED FOR REVIEW	AUG. 19, 2016

Client / client  
**PARKS CANADA  
WESTERN REGION  
STEVESTON, B.C. NATIONAL HISTORIC SITE**

Project title / Titre du projet  
**GULF OF GEORGIA CANNERY ADMINISTRATION BUILDING**

12138 Fourth Ave., Richmond B.C.

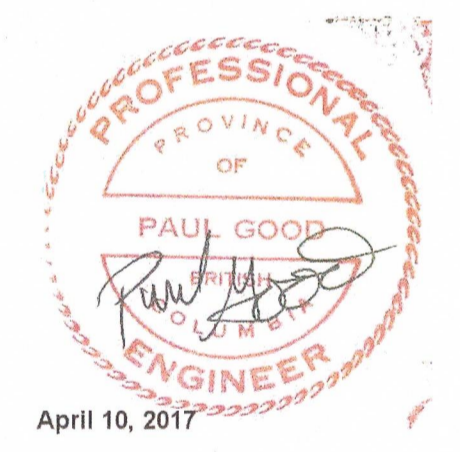
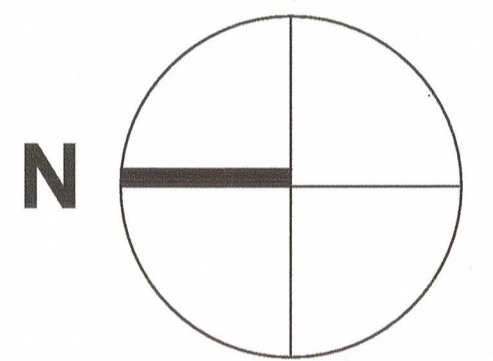
Consultant Approval Box Only  
Designed by / Concept par  
PK  
Drawn by / Dessiné par  
AC  
PWGSC, Project Manager / Administrateur de Projets TPSGC  
TOM DUNPHY  
PWGSC, Regional Manager, Architectural and Engineering Services / Gestionnaire régionale, Services d'architecture et de génie, TPSGC  
PREETIPAL PAUL

Drawing title / Titre du dessin  
**STRUCTURAL SCHEDULES AND NOTES  
SCALE: AS NOTED**

Project no. / no. du Projet	Sheet / Feuille	Revision no. / La Revision no.
R.060702.001	S-1	

### LEGEND

- EXTENT OF CONCRETE SLAB
- 150± APPROX. EXISTING GRADE ELEVATION (FIELD VERIFY)
- 200± APPROX. FINISH GRADE ELEVATION (FIELD VERIFY)



5	ISSUED FOR TENDER	APR.10, 2017
4	RE-ISSUED FOR STRUC. REVIEW	APR.03, 2017
3	ISSUED FOR TENDER	FEB. 22, 2017
2	ISSUED FOR 99% REVIEW	OCT. 24, 2016
1	ISSUED FOR REVIEW	AUG. 19, 2016

Client / client: **PARKS CANADA WESTERN REGION**  
STEVESTON, B.C. NATIONAL HISTORIC SITE

Project title / Titre du projet: **GULF OF GEORGIA CANNERY ADMINISTRATION BUILDING**  
12138 Fourth Ave., Richmond B.C.

Consultant Approval Box Only

Designed by / Concept par: PK

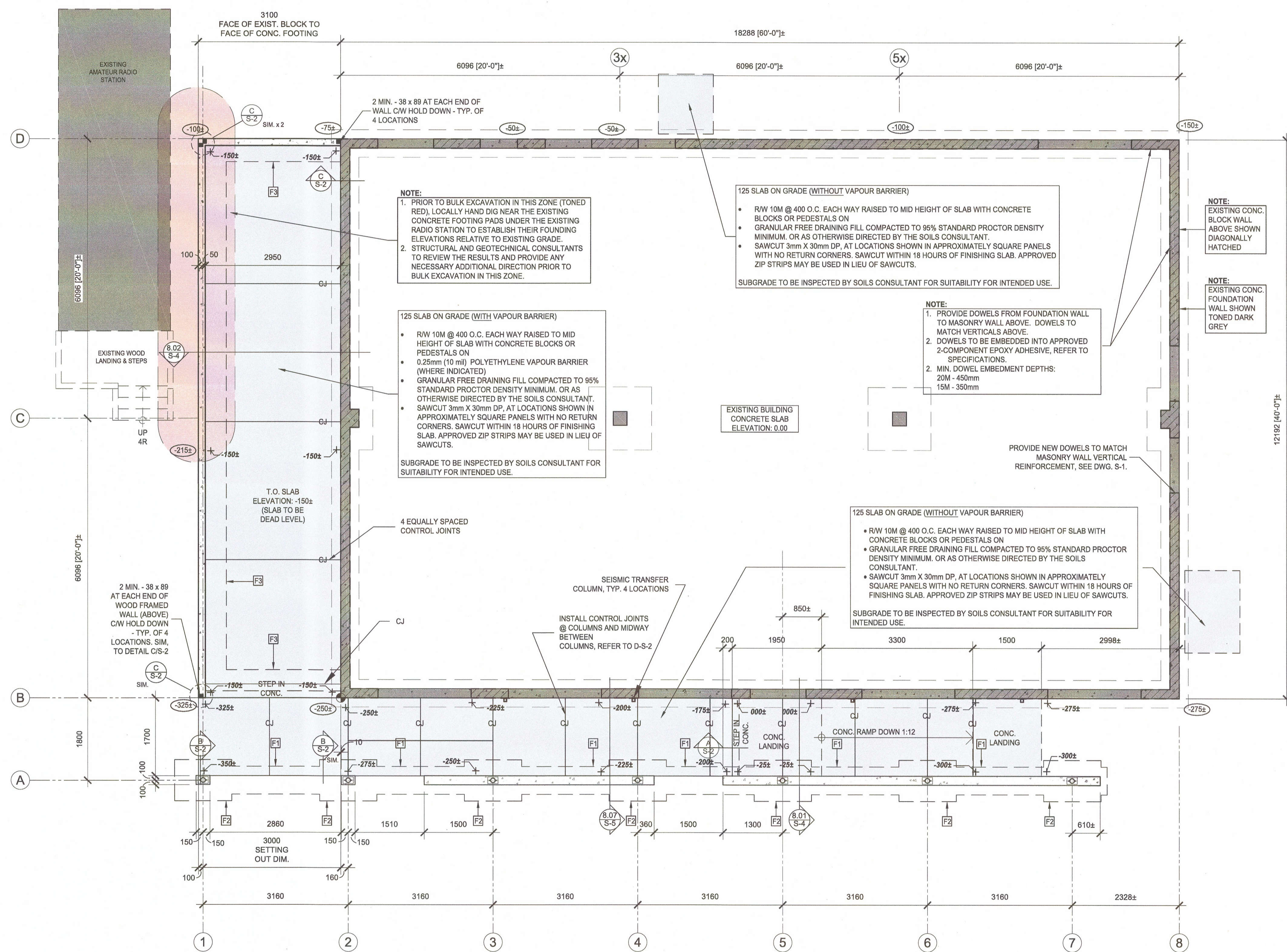
Drawn by / Dessiné par: AC

PWGSC, Project Manager / Administrateur de Projets TPSGC  
**TOM DUNPHY**

PWGSC, Regional Manager, Architectural and Engineering Services / Gestionnaire régionale, Services d'architecture et de génie, TPSGC  
**PREETIPAL PAUL**

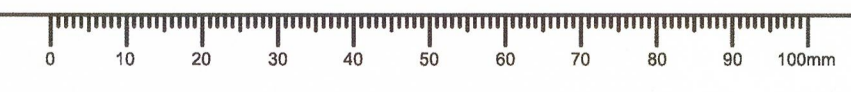
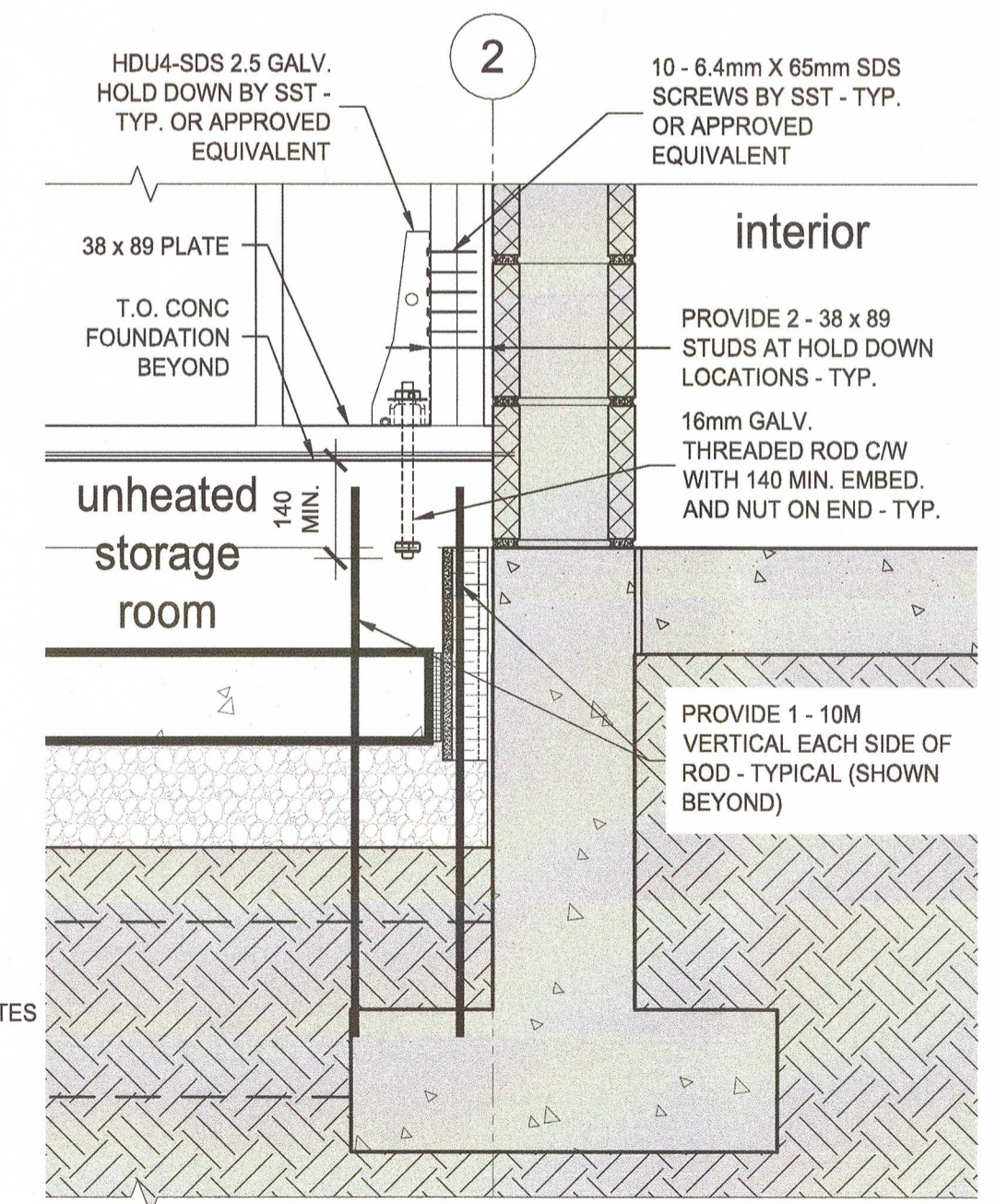
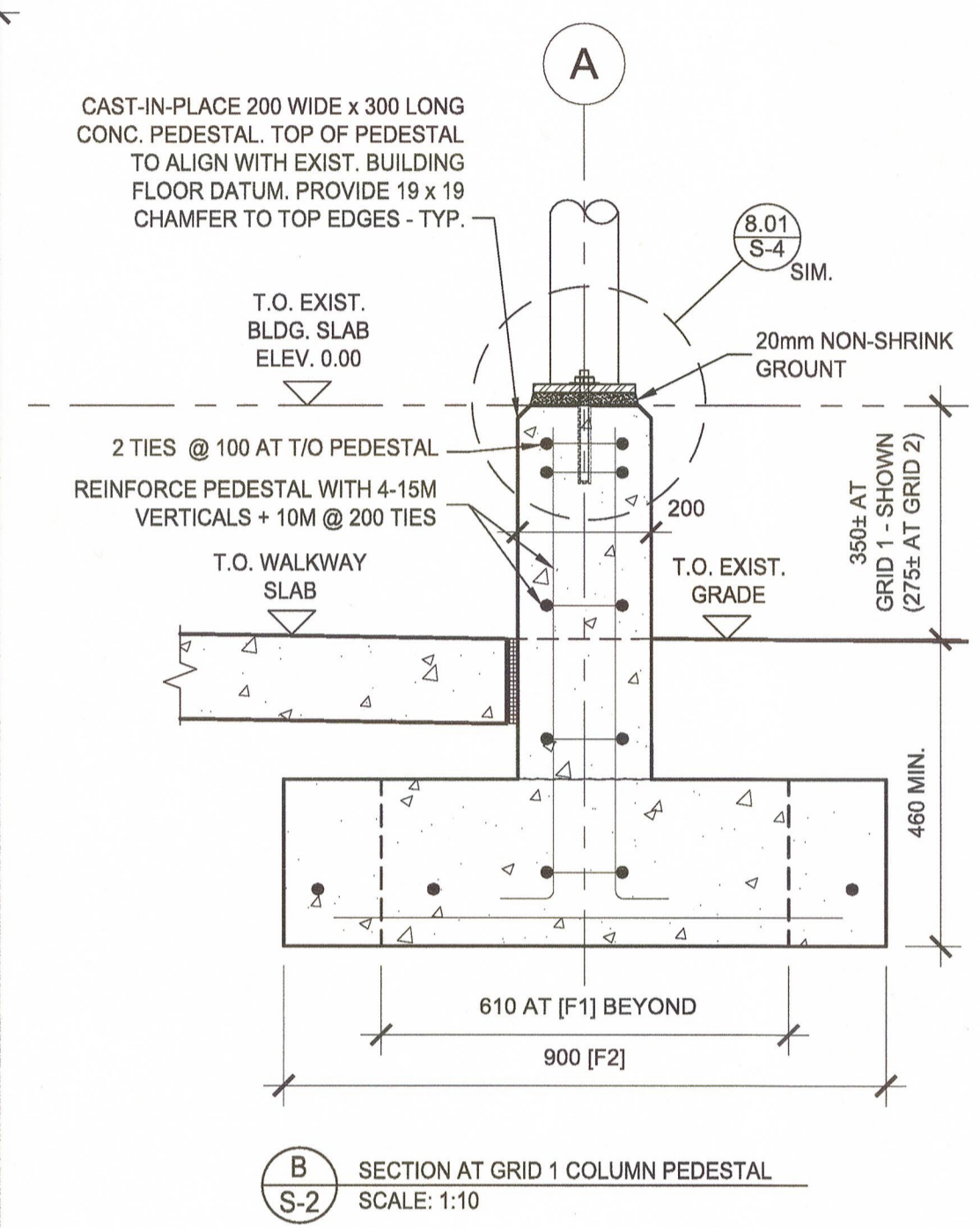
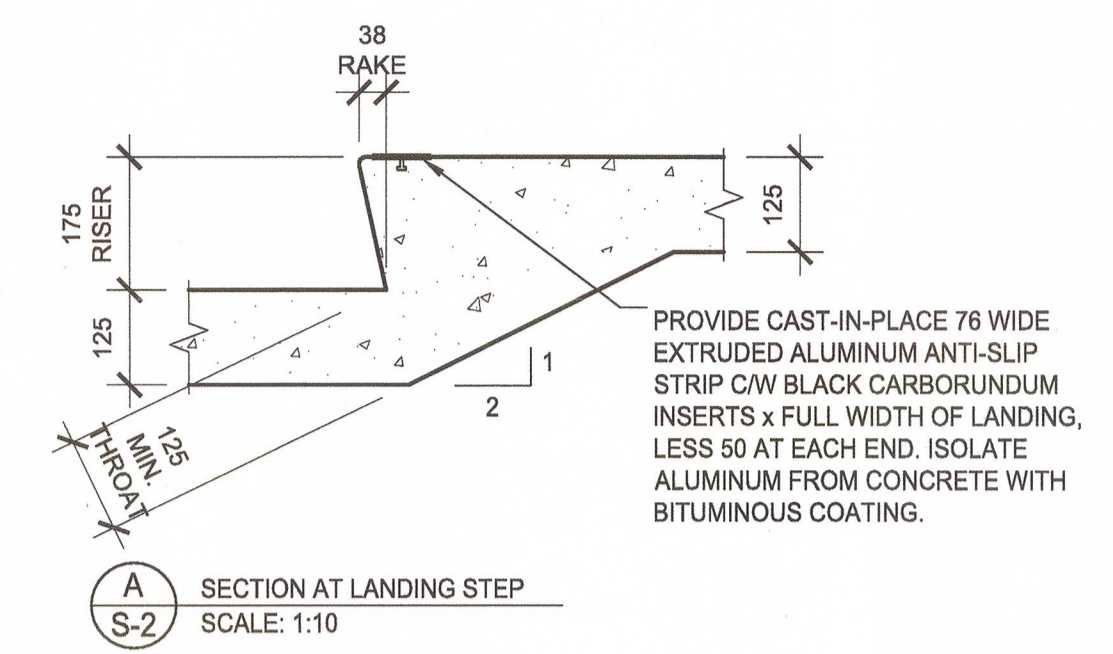
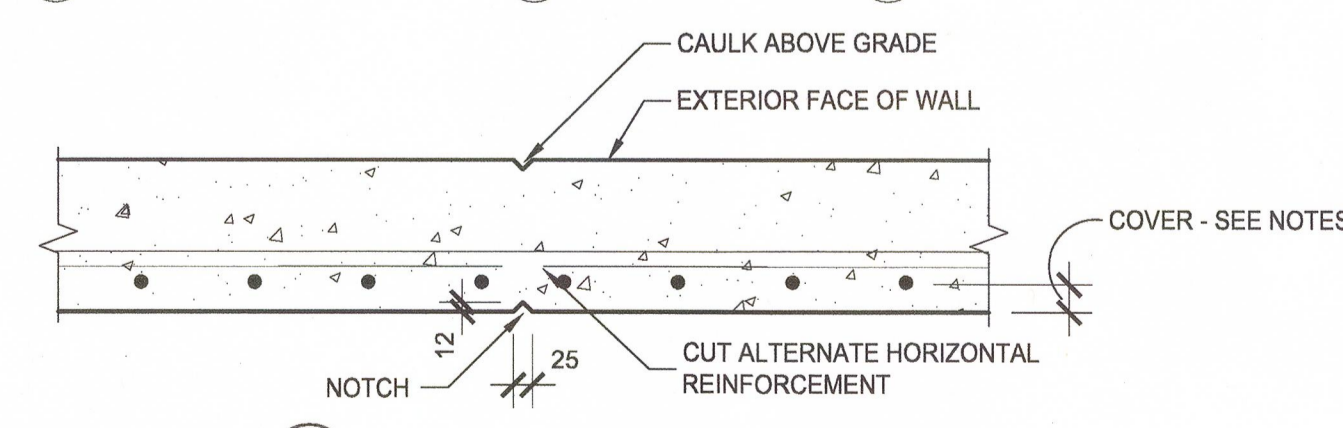
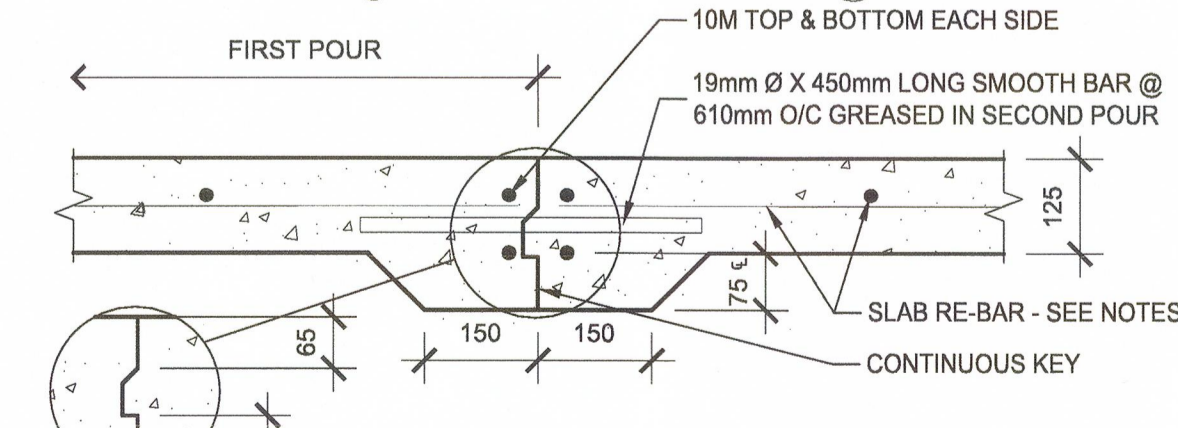
Drawing title / Titre du dessin: **FOUNDATION PLAN**  
SCALE: AS NOTED

Project no. / no. du Projet: <b>R.060702.001</b>	Sheet / Feuille: <b>S-2</b>	Revision no. / La Revision no.
--	-----------------------------	--------------------------------



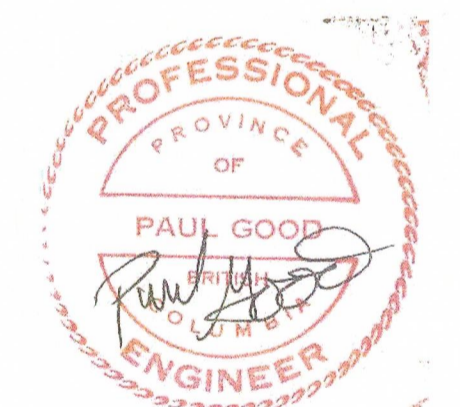
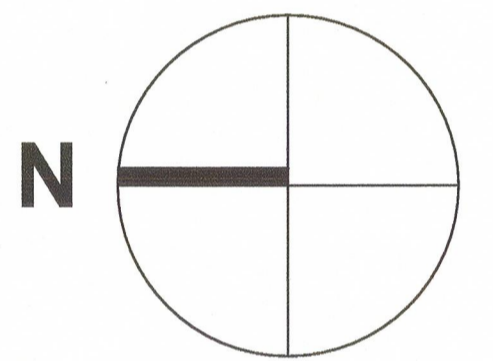
## FOUNDATION PLAN

SCALE 1:50



**LEGEND**

- 12.5 PLYWOOD DIAPHRAGM TO EXISTING ROOF
- 12.5 PLYWOOD DIAPHRAGM TO NEW ROOF



6	ISSUED FOR TENDER	APR.10, 2017
4	RE-ISSUED FOR STRUCT. REVIEW	APR.03, 2017
3	ISSUED FOR TENDER	FEB. 22, 2017
2	ISSUED FOR 99% REVIEW	OCT. 24, 2016
1	ISSUED FOR REVIEW	AUG. 19, 2016

Client / client: **PARKS CANADA WESTERN REGION STEVESTON, B.C. NATIONAL HISTORIC SITE**

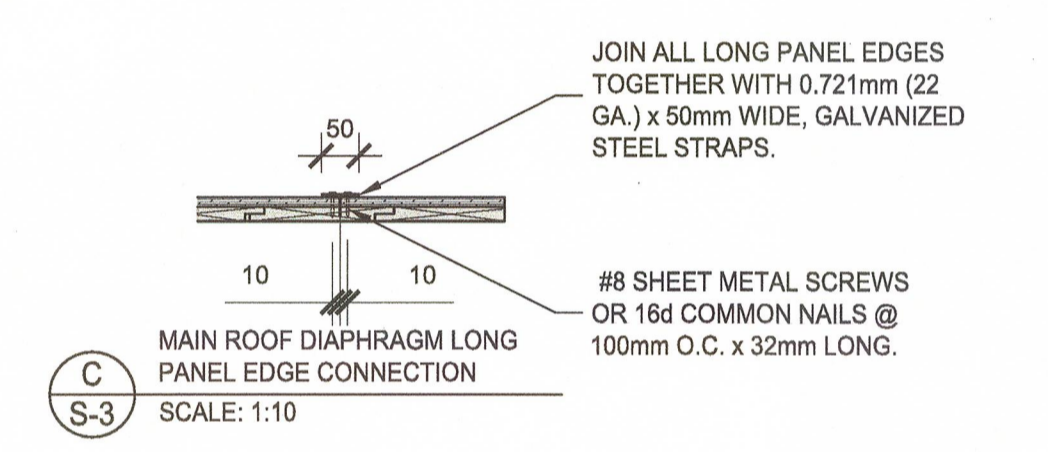
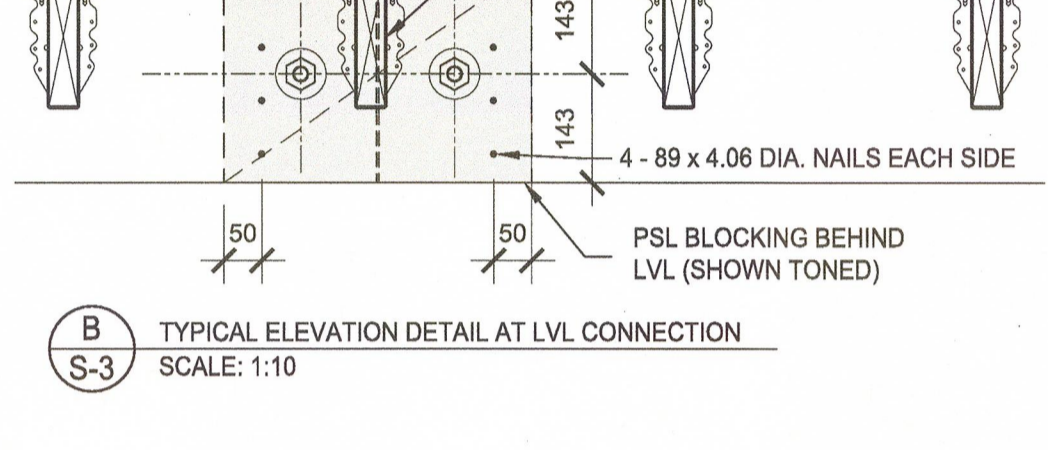
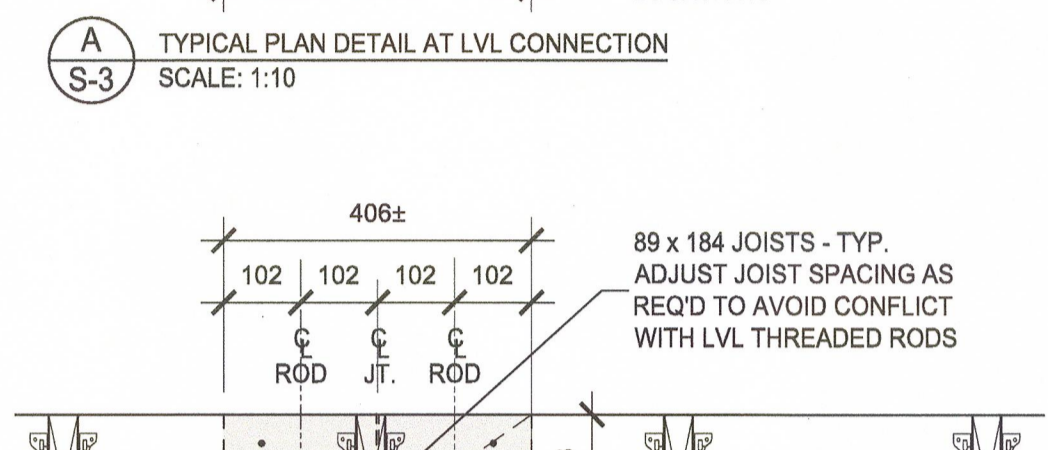
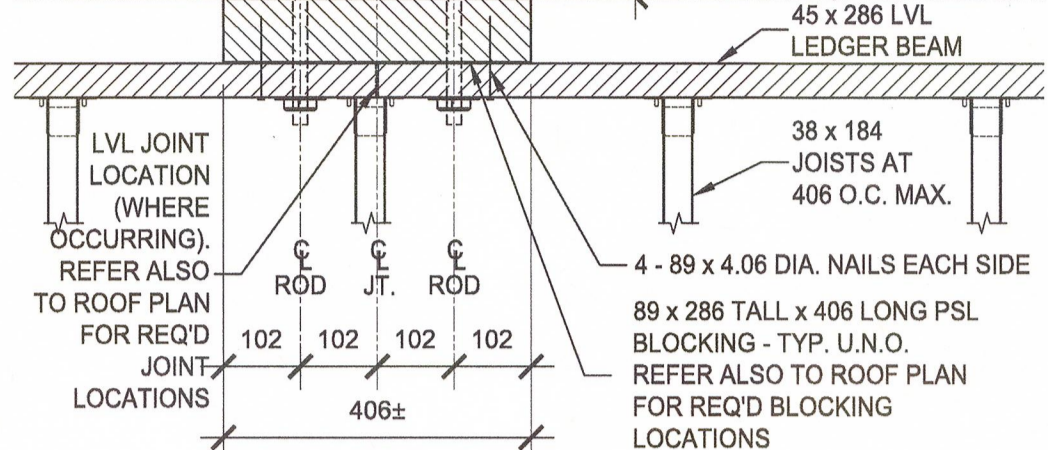
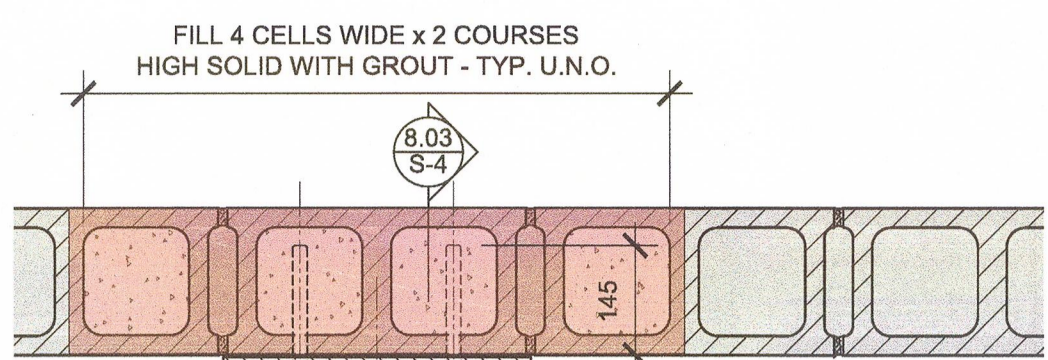
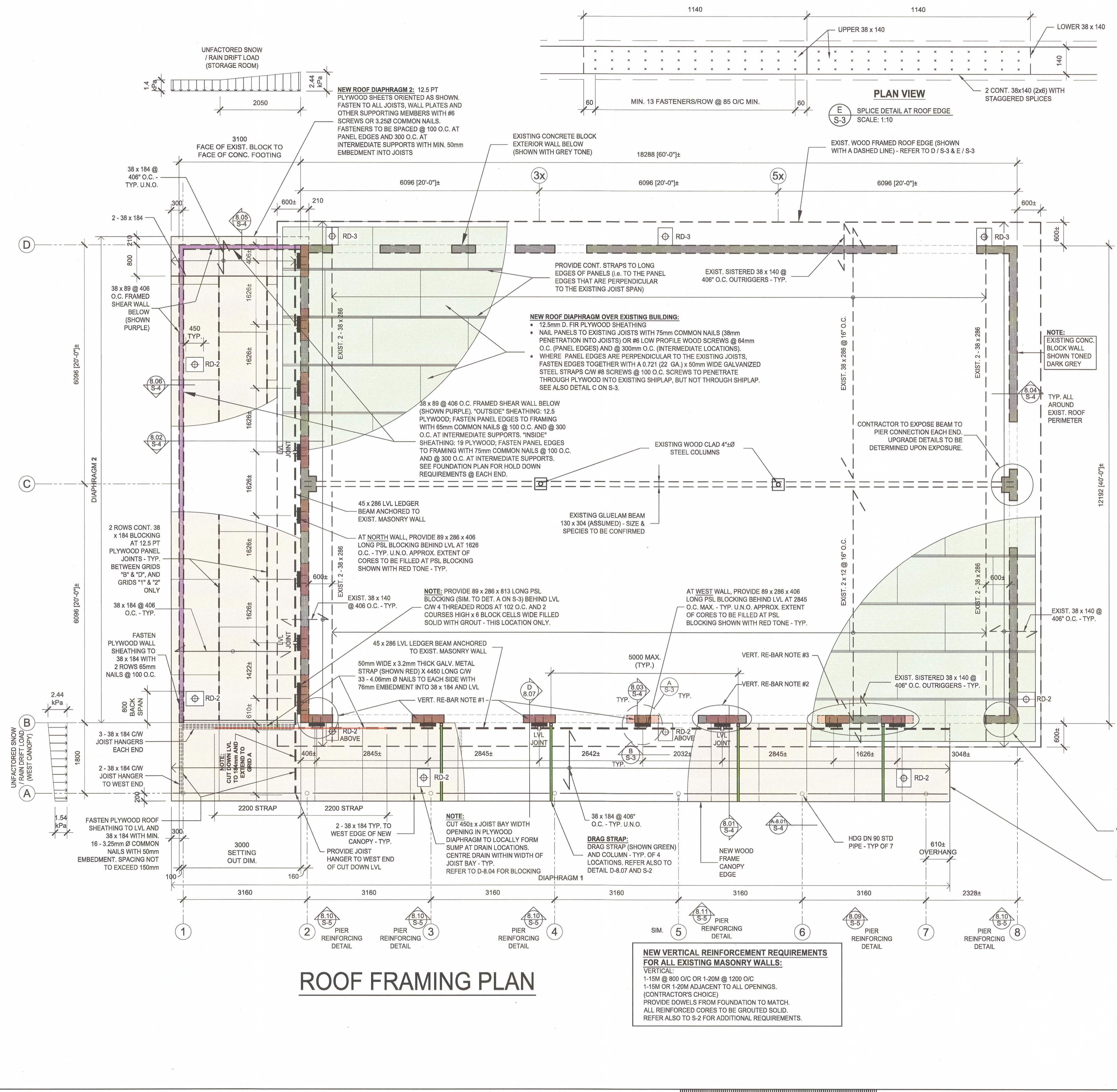
Project title / Titre du projet: **GULF OF GEORGIA CANNERY ADMINISTRATION BUILDING**

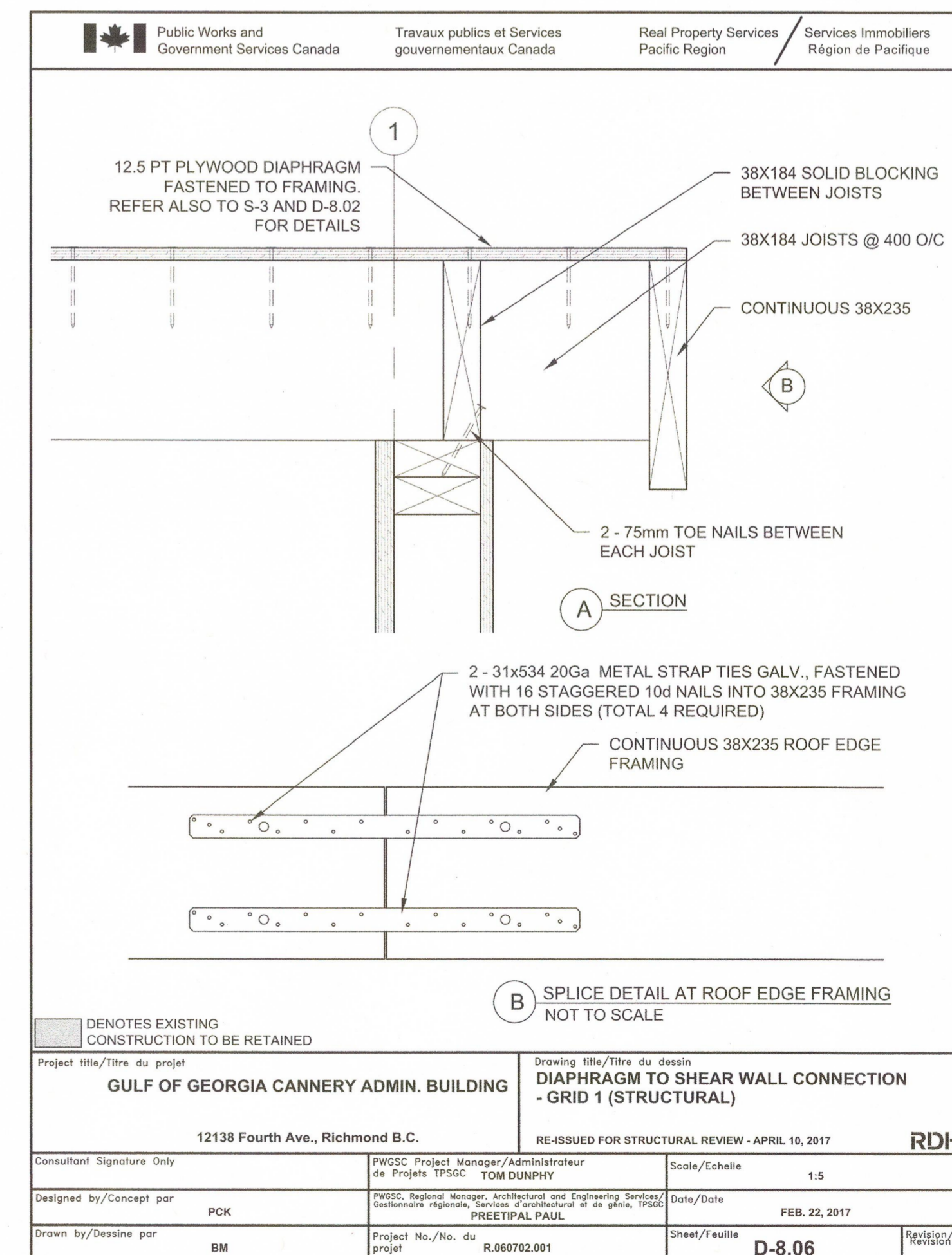
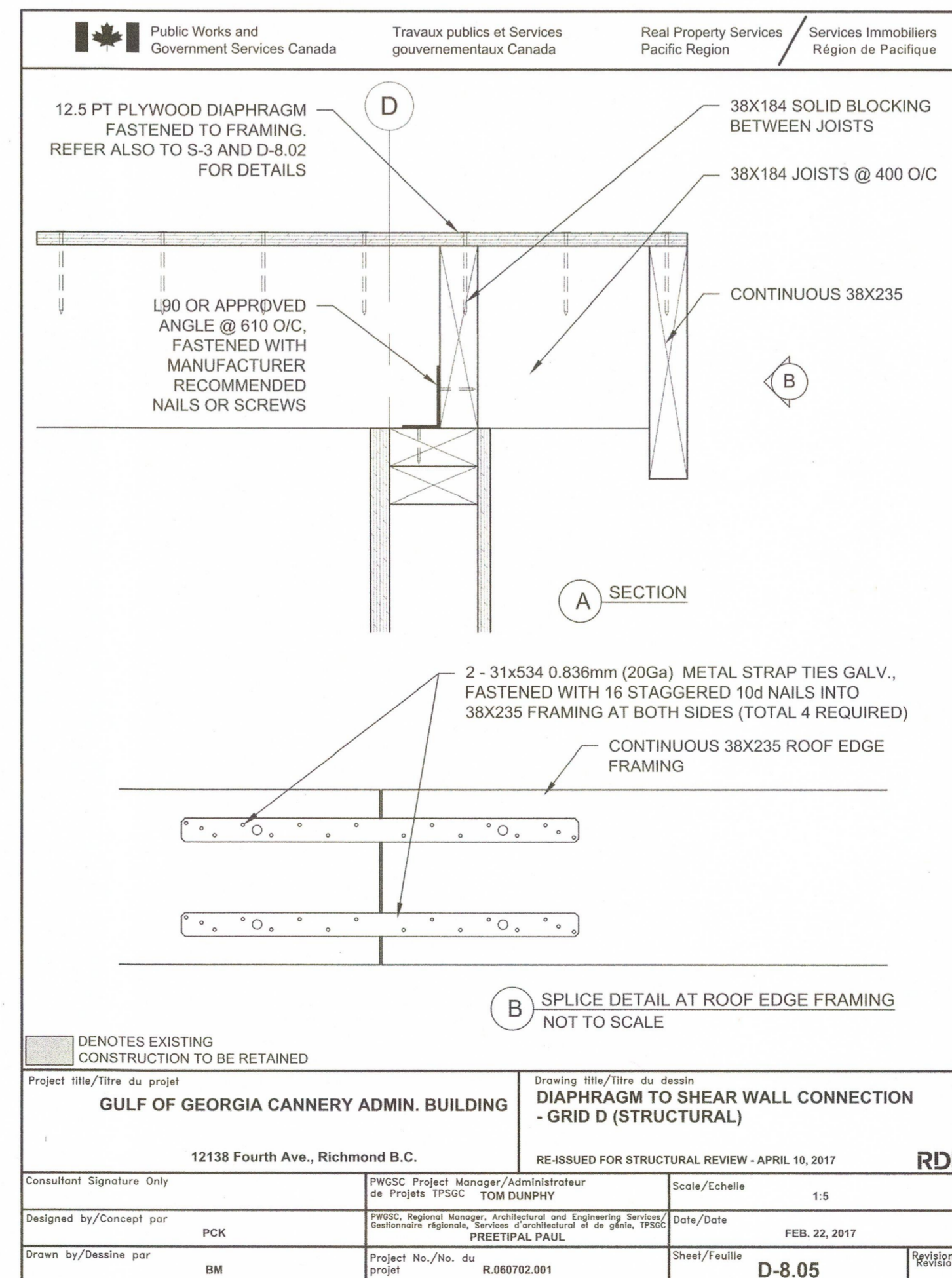
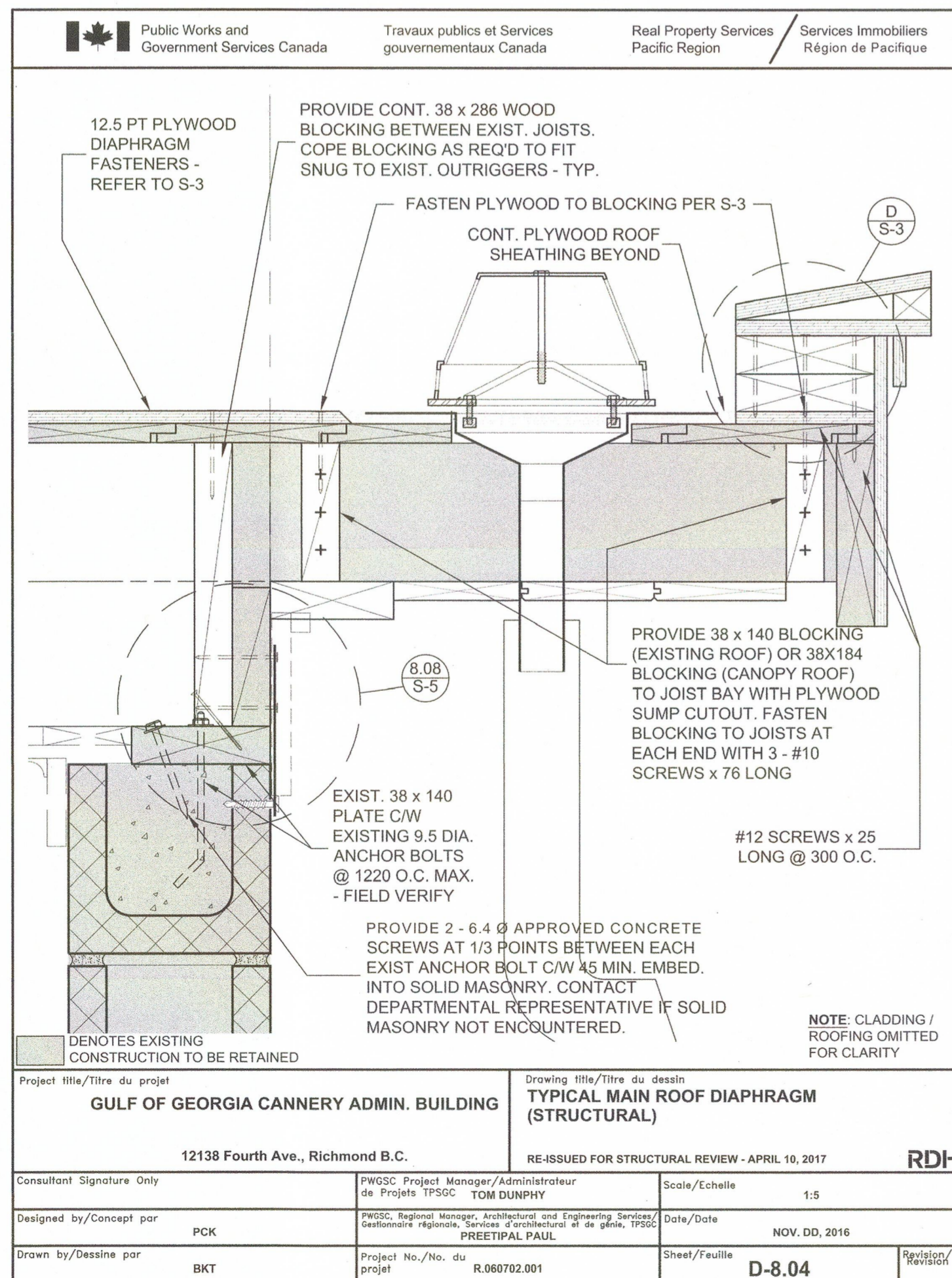
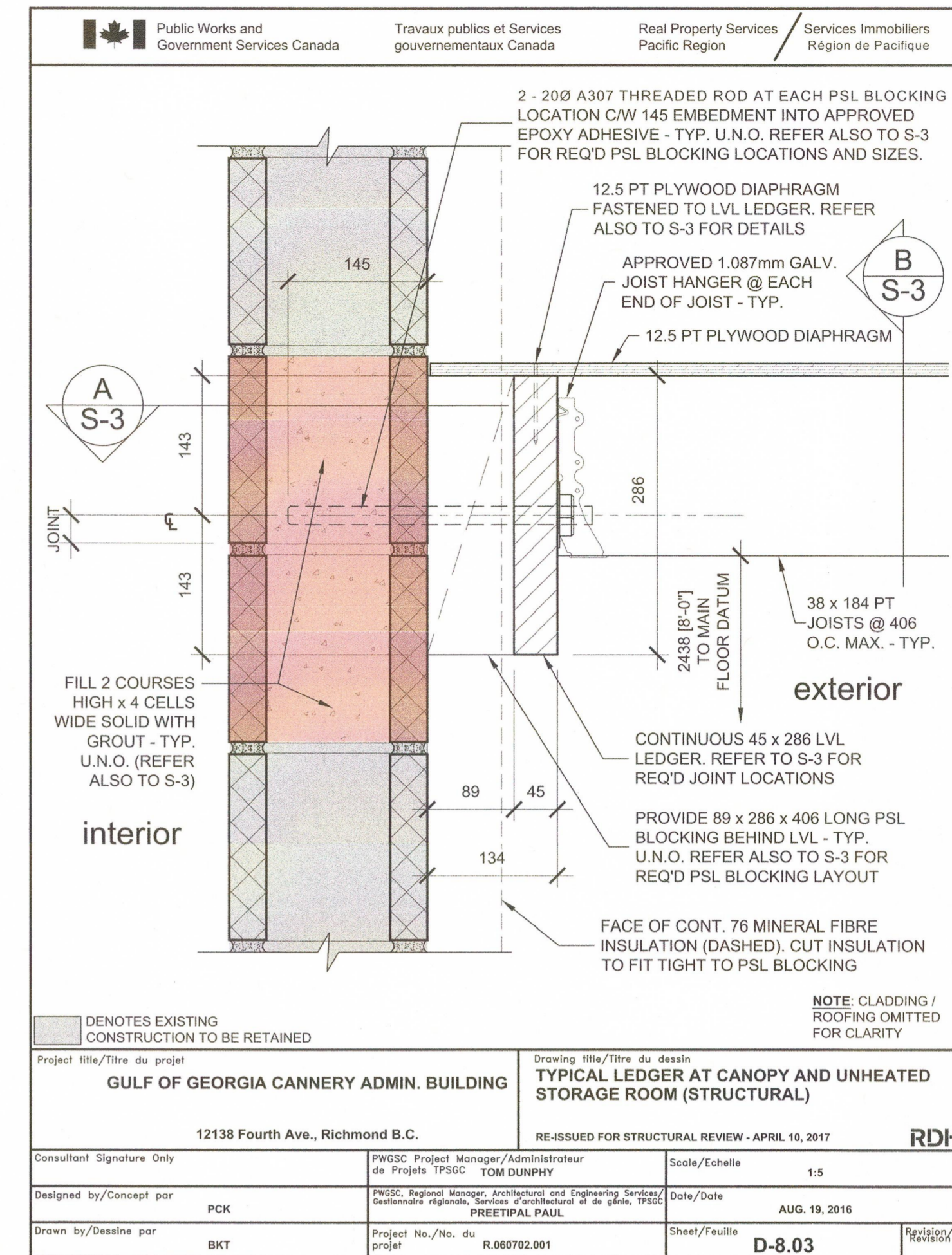
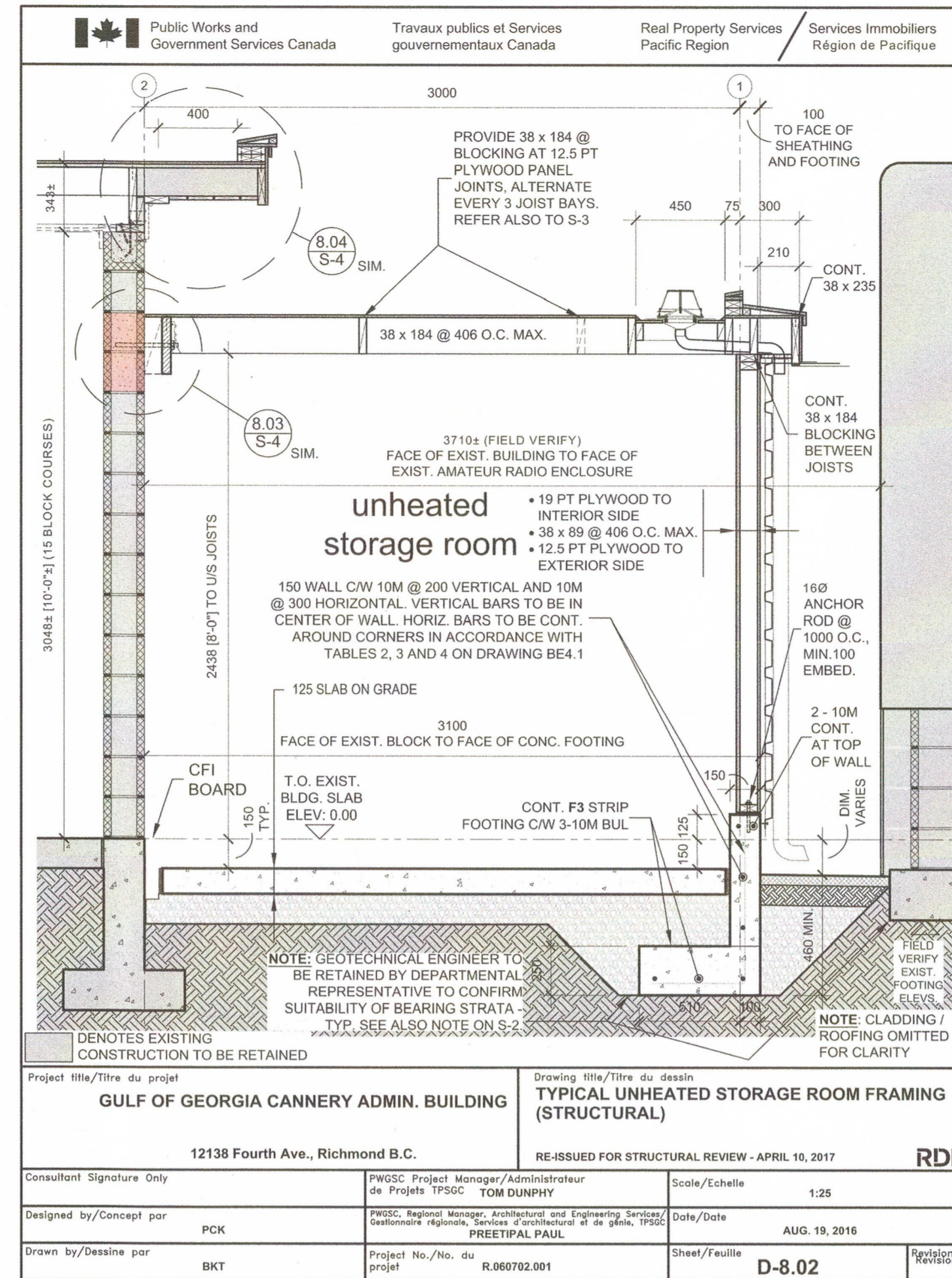
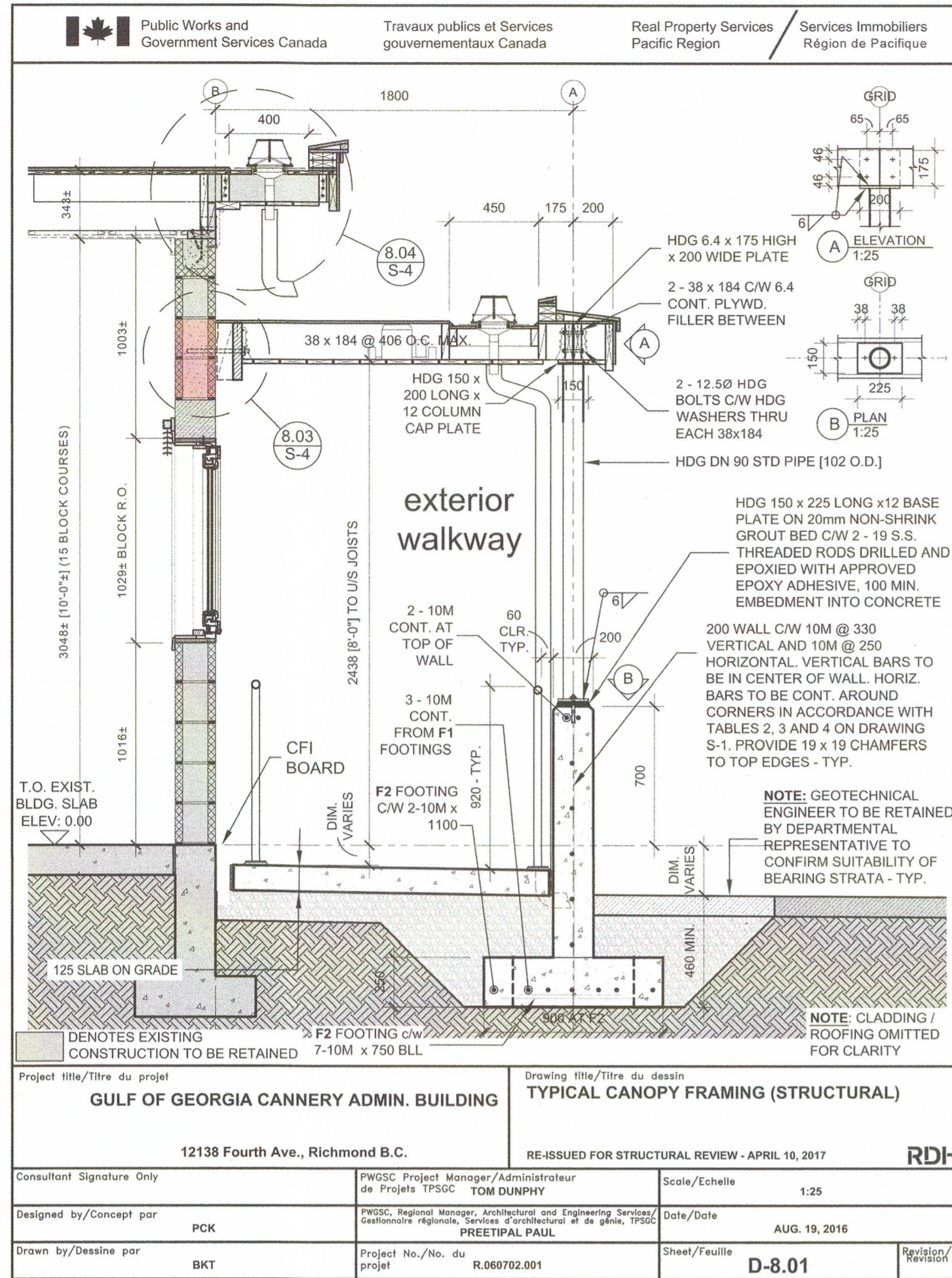
12138 Fourth Ave., Richmond B.C.

Designed by / Concept par: PK  
 Drawn by / Dessiné par: AC  
 PWGSC, Project Manager / Administrateur de Projets TPSGC: TOM DUNPHY  
 PWGSC, Regional Manager, Architectural and Engineering Services / Gestionnaire régionale, Services d'architecture et de génie, TPSGC: PREETIPAL PAUL

Drawing title / Titre du dessin: **ROOF FRAMING PLAN**  
 SCALE: 1:50

Project no. / no. du projet: R.060702.001	Sheet / Feuille: S-3	Revision no. / La Révision no.:
---	----------------------	---------------------------------





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

REAL PROPERTY SERVICES / Services Immobiliers Région de Pacifique

# RDH

RDH

PROFESSIONAL ENGINEER

PAUL GOOD

April 10, 2017

5	ISSUED FOR TENDER	APR. 10, 2017
4	RE-ISSUED FOR STRUCT. REVIEW	APR. 03, 2017
3	ISSUED FOR TENDER	FEB. 22, 2017
2	ISSUED FOR 99% REVIEW	OCT. 24, 2016
1	ISSUED FOR REVIEW	AUG. 19, 2016

Client / client: **PARKS CANADA WESTERN REGION STEVESTON, B.C. NATIONAL HISTORIC SITE**

Project title / Titre du projet: **GULF OF GEORGIA CANNERY ADMINISTRATION BUILDING**

12138 Fourth Ave., Richmond B.C.

Consultant Approval Box Only

Designed by / Concept par: PCK

Drawn by / Dessiné par: AC

PWGSC Project Manager / Administrateur de Projets TPSGC: **TOM DUNPHY**

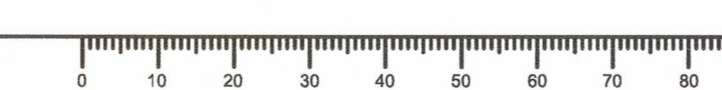
PWGSC Regional Manager, Architectural and Engineering Services / Gestionnaire régional, Services d'architecture et de génie, TPSGC: **PREETIPAL PAUL**

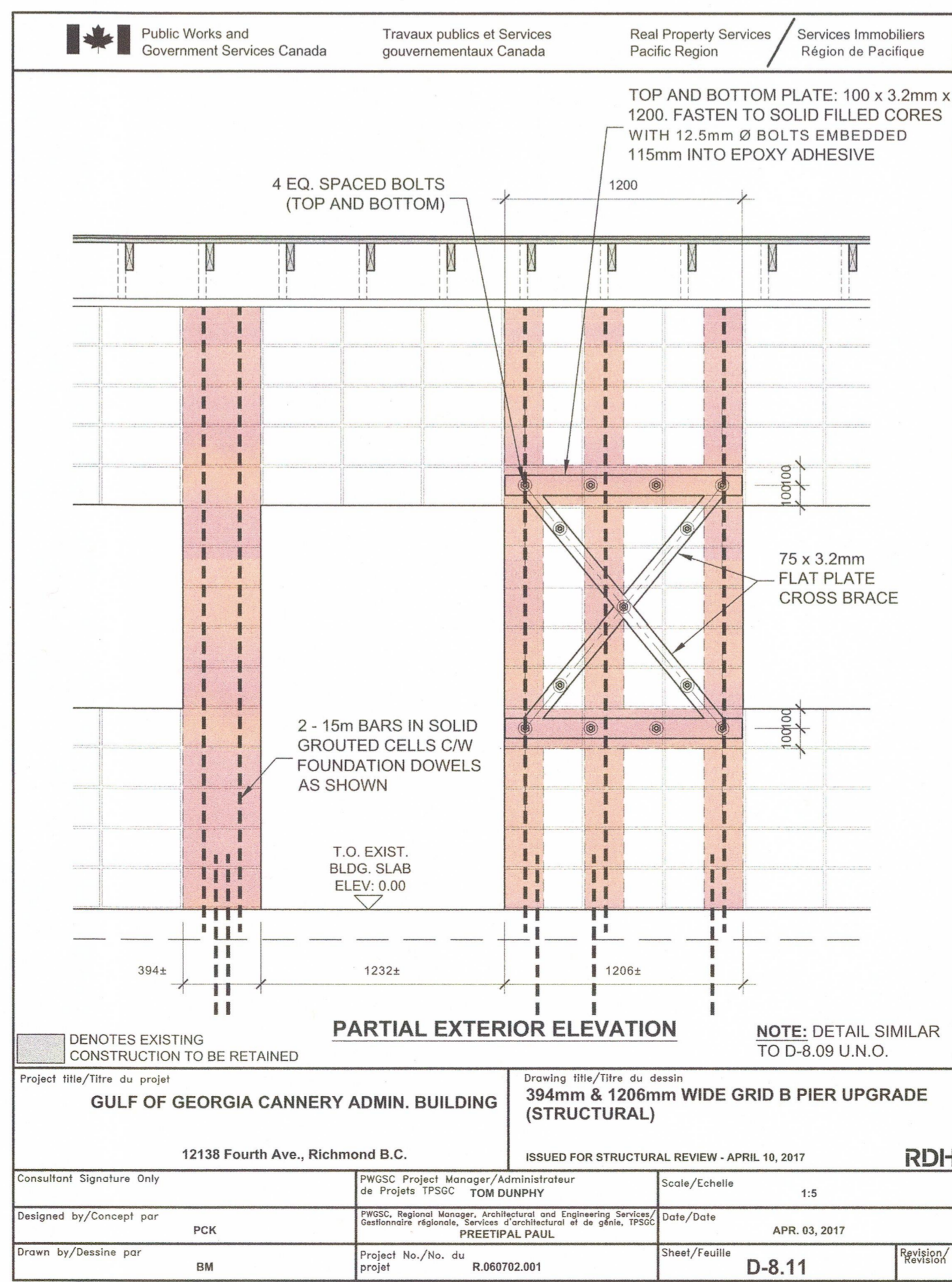
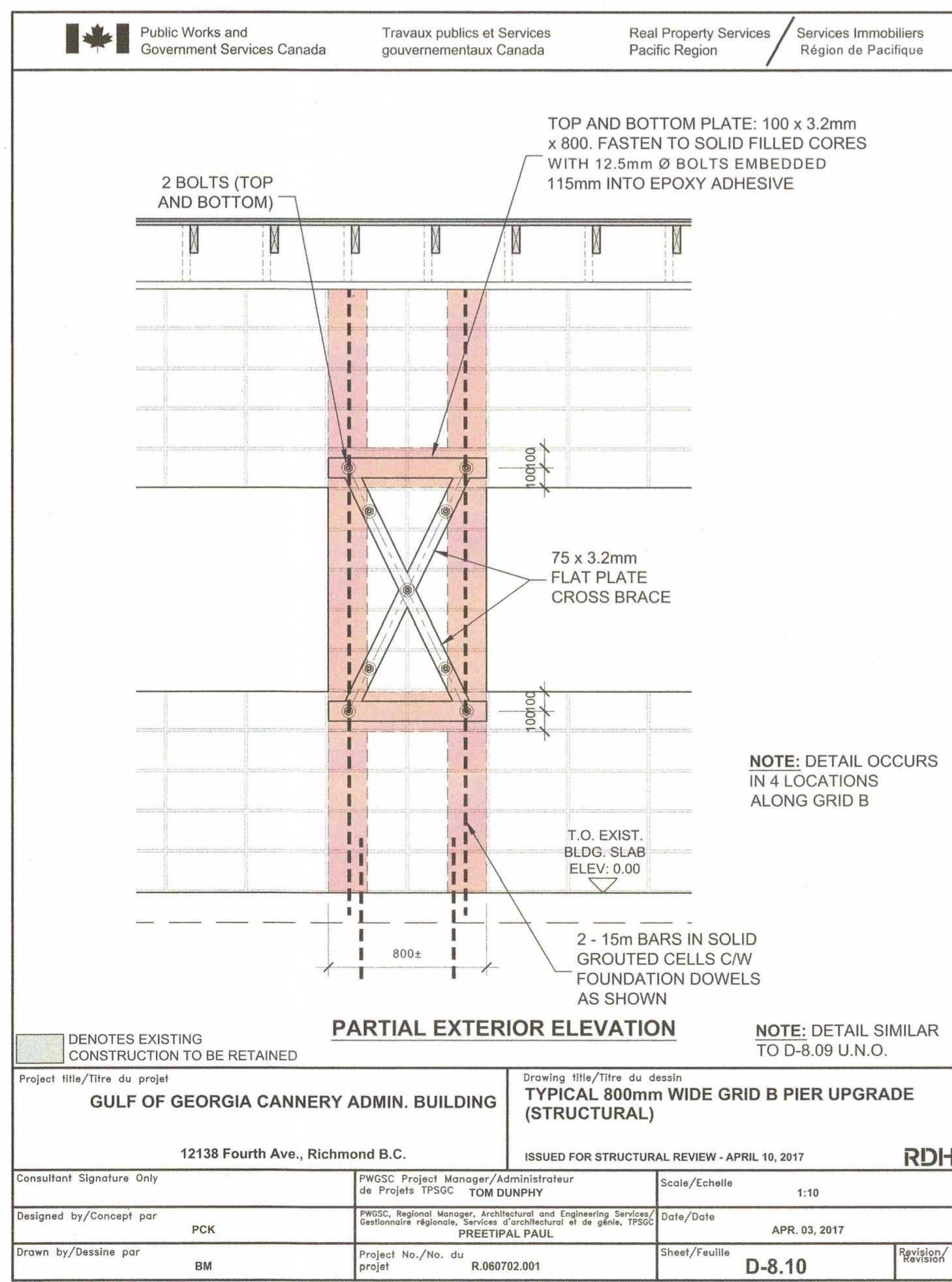
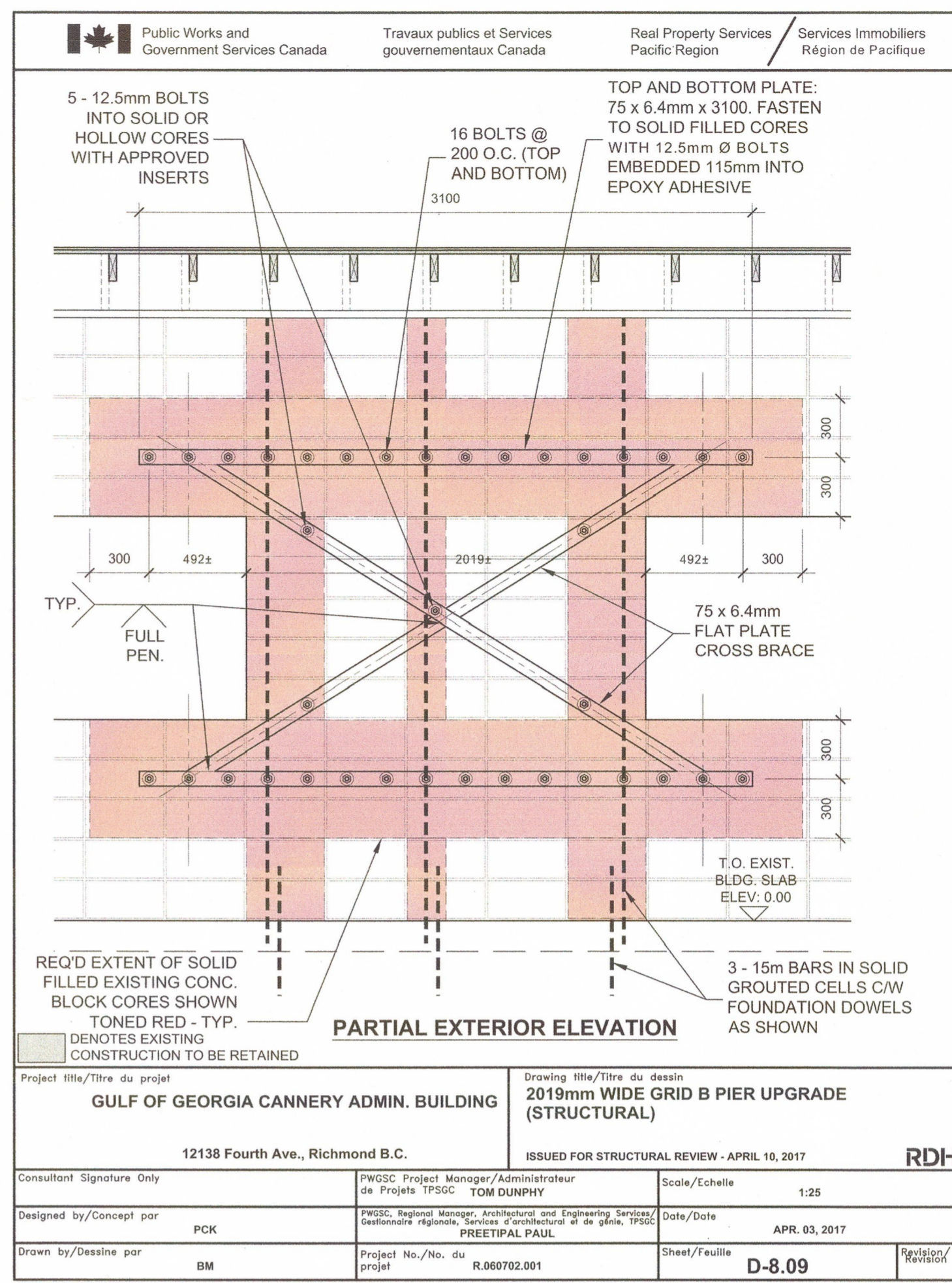
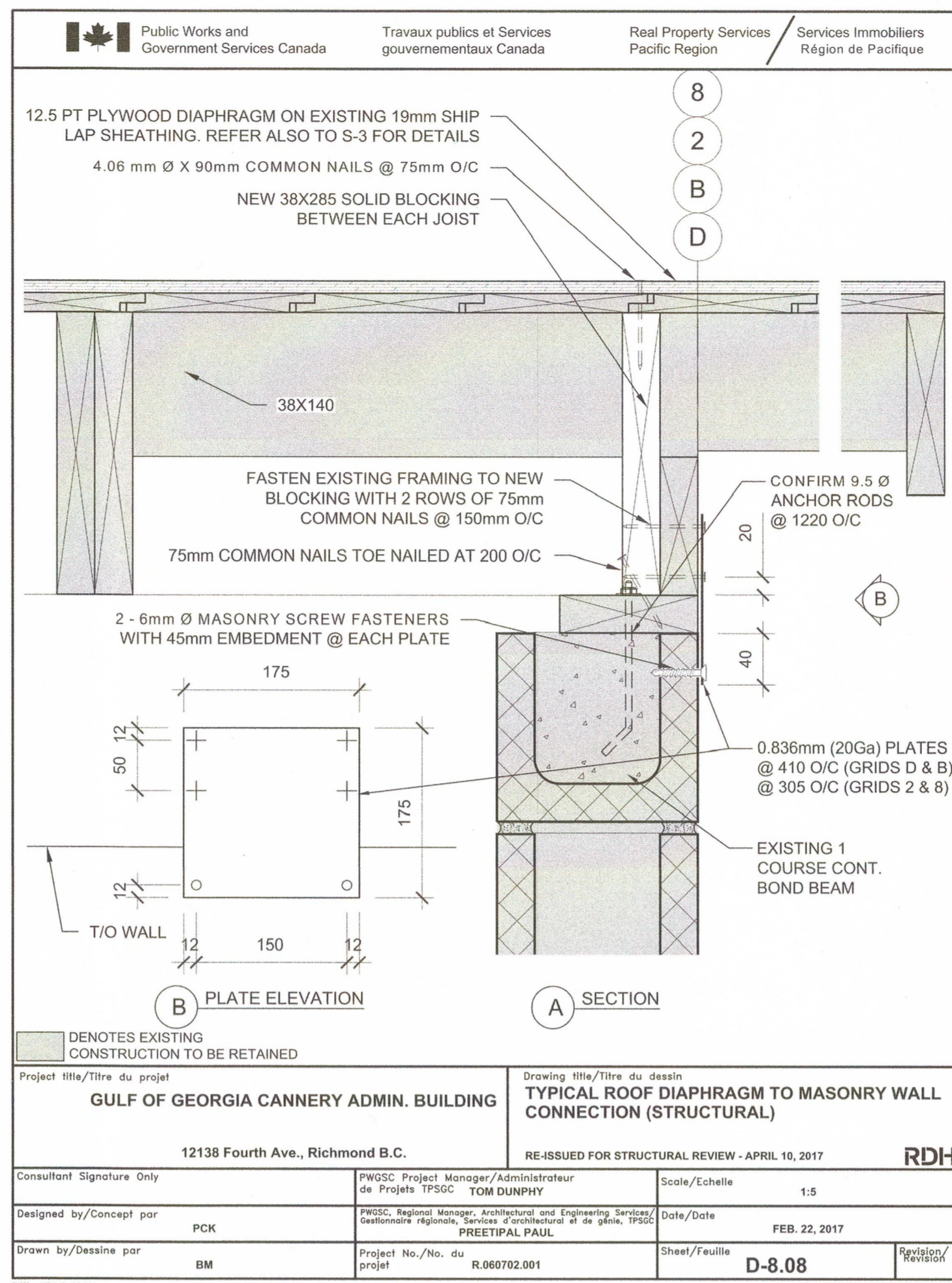
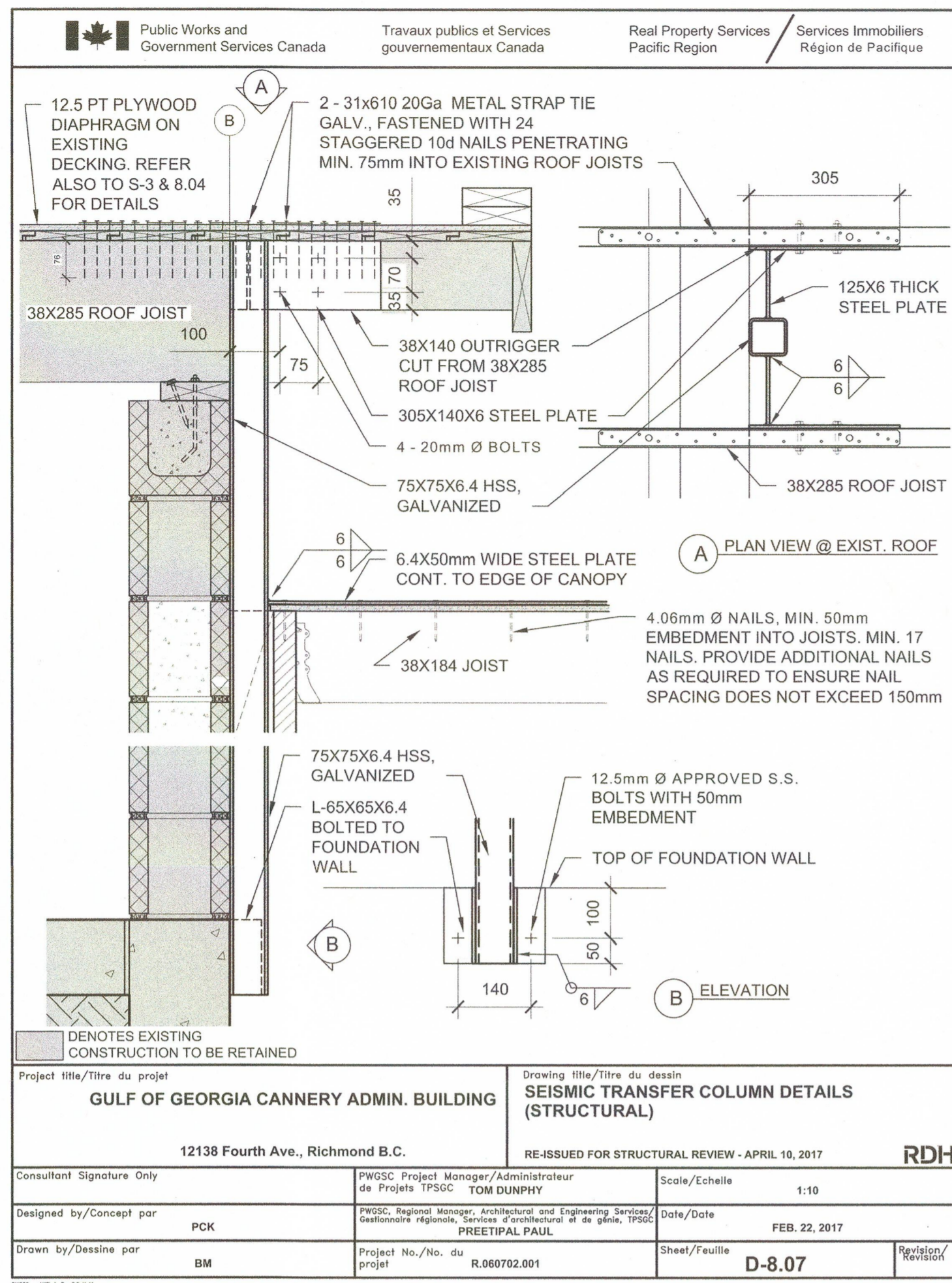
Drawing title / Titre du dessin: **DETAIL DRAWINGS SCALE: AS INDICATED**

Project no. / no. du projet: **R.060702.001**

Sheet / Feuille: **S-4**

Revision no. / La Révision no.





Public Works and Government Services Canada / Travaux publics et Services gouvernementaux Canada  
 Real Property Services Pacific Region / Services Immobiliers Région de Pacifique

**REAL PROPERTY SERVICES**  
 SERVICES IMMOBILIERS  
 Région de Pacifique

# RDH

PROFESSIONAL ENGINEER  
 PAUL GOOD  
 APRIL 10, 2017

3	ISSUED FOR TENDER	APR. 10, 2017
2	RE-ISSUED FOR STRUCT. REVIEW	APR. 03, 2017
1	ISSUED FOR TENDER	FEB. 22, 2017

Client / client: **PARKS CANADA WESTERN REGION**  
 STEVESTON, B.C. NATIONAL HISTORIC SITE

Project title / Titre du projet: **GULF OF GEORGIA CANNERY ADMINISTRATION BUILDING**  
 12138 Fourth Ave., Richmond B.C.

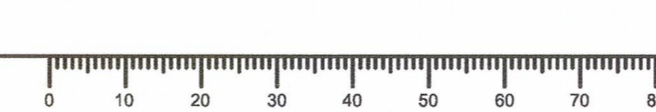
Consultant Approval Box Only

Designed by / Concept par: PK  
 Drawn by / Dessiné par: AC

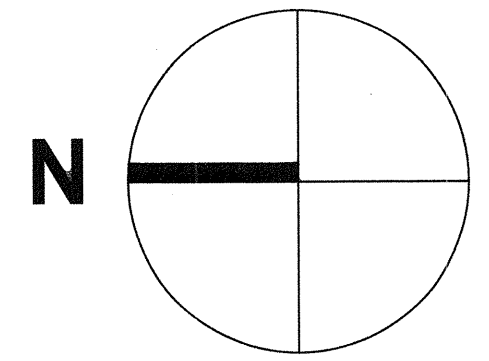
PWGSC Project Manager / Administrateur de Projets TPSGC: **TOM DUNPHY**  
 PWGSC, Regional Manager, Architectural and Engineering Services / Gestionnaire régionale, Services d'architecture et de génie, TPSGC: **PREETIPAL PAUL**

Drawing title / Titre du dessin: **DETAIL DRAWINGS**  
 SCALE: AS INDICATED

Project no. / no. du projet: **R.060702.001**  
 Sheet / Feuille: **S-5**  
 Revision no. / La Révision no.:







SYMBOLS LEGEND

O/A	OUTDOOR AIR
E/A	EXHAUST AIR
R/A	RETURN AIR
S/A	SUPPLY AIR
A.F.F.	ABOVE FINISH FLOOR
---	DOM. COLD WATER
---	DOM HOT WATER
— G —	GAS
⊗	ISOLATING (BALL) VALVE
— —	SUPPLY DUCT
⊗	SUPPLY DUCT
⊗	RET/EXH DUCT
---	REFRIG
---	SUPPLY AND RETURN
FD	FIRE DAMPER
M	MOTORIZED DAMPER
BDD	BACK DRAFT DAMPER
T	THERMOSTAT
C	TIMER CONTROLLER
SR	SUPPLY REGISTER
RG	RETURN GRILLE
CD	CEILING DIFFUSER
—	TAG
—	NOM SIZE
—	VOLUME Ls (CFM)

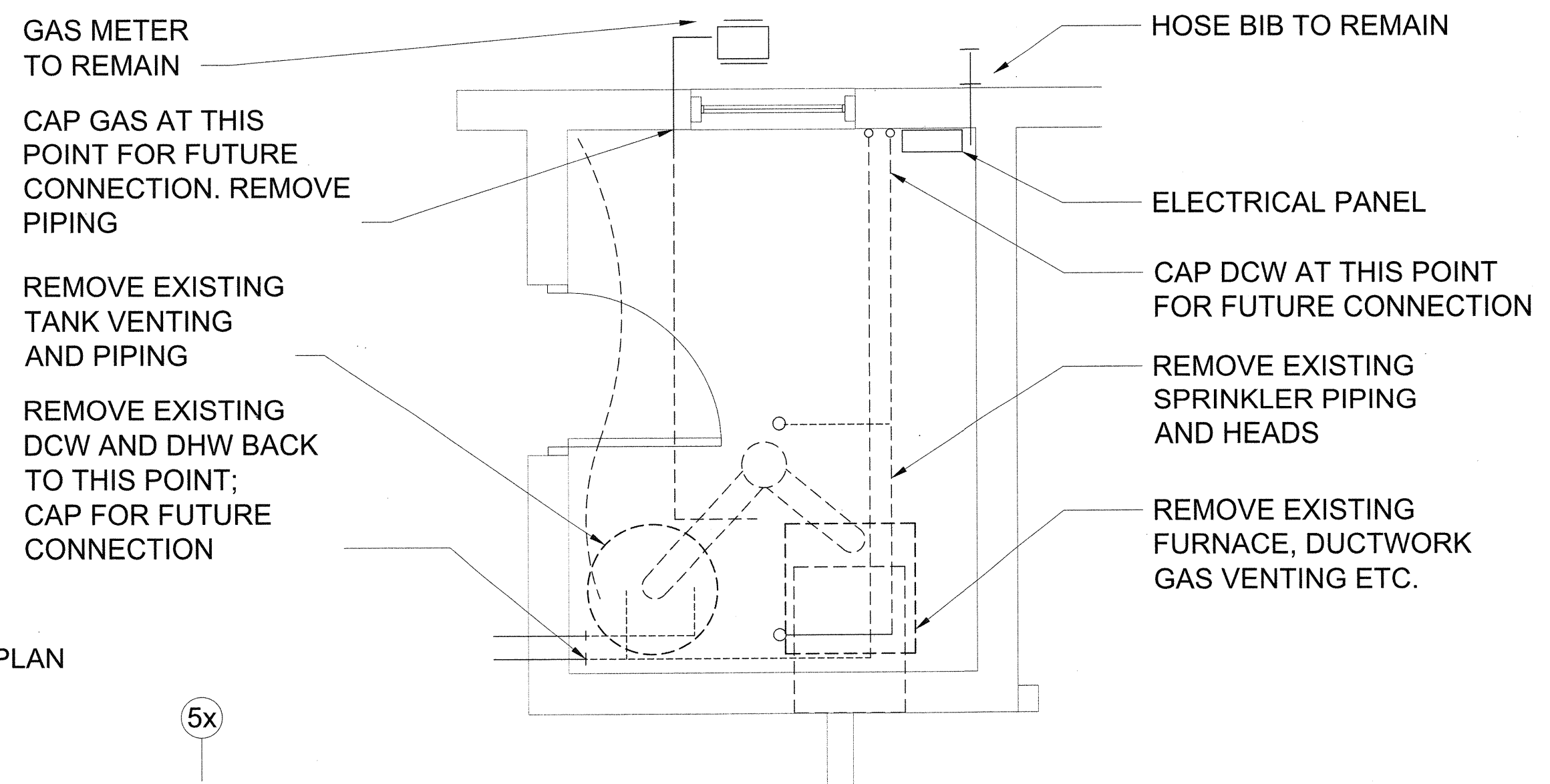
4	ISSUED FOR TENDER	APR. 10, 2017
3	ISSUED FOR TENDER	MAR. 22, 2017
2	ISSUED FOR 99% REVIEW	NOV. 18, 2016
1	ISSUED FOR REVIEW	AUG. 19, 2016
Revision / Revison	Description / Description	Date / Date

Client / client  
**PARKS CANADA  
WESTERN REGION**  
STEVESTON, B.C. NATIONAL HISTORIC SITE

Project title / Titre du projet  
**GULF OF GEORGIA CANNERY  
ADMIN. BUILDING**  
12138 Fourth Ave., Richmond B.C.

Consultant Approval Box Only  
Designed by / Concept par  
PF  
Drawn by / Dessiné par  
EW  
PWGSC, Project Manager / Administrateur de Projets TPSGC  
TOM DUNPHY  
PWGSC, Regional Manager, Architectural and Engineering Services / Gestionnaire régionale, Services d'architecture et de génie, TPSGC  
PREETIPAL PAUL

Drawing title / Titre du dessin  
**DEMOLITION PLAN  
MECHANICAL**  
Project no. / no. du projet: R.060702.001  
Sheet / Feuille: M1  
Revision no. / La Revision no.



DEMOLITION PLAN - MECHANICAL ROOM  
SCALE 1:25

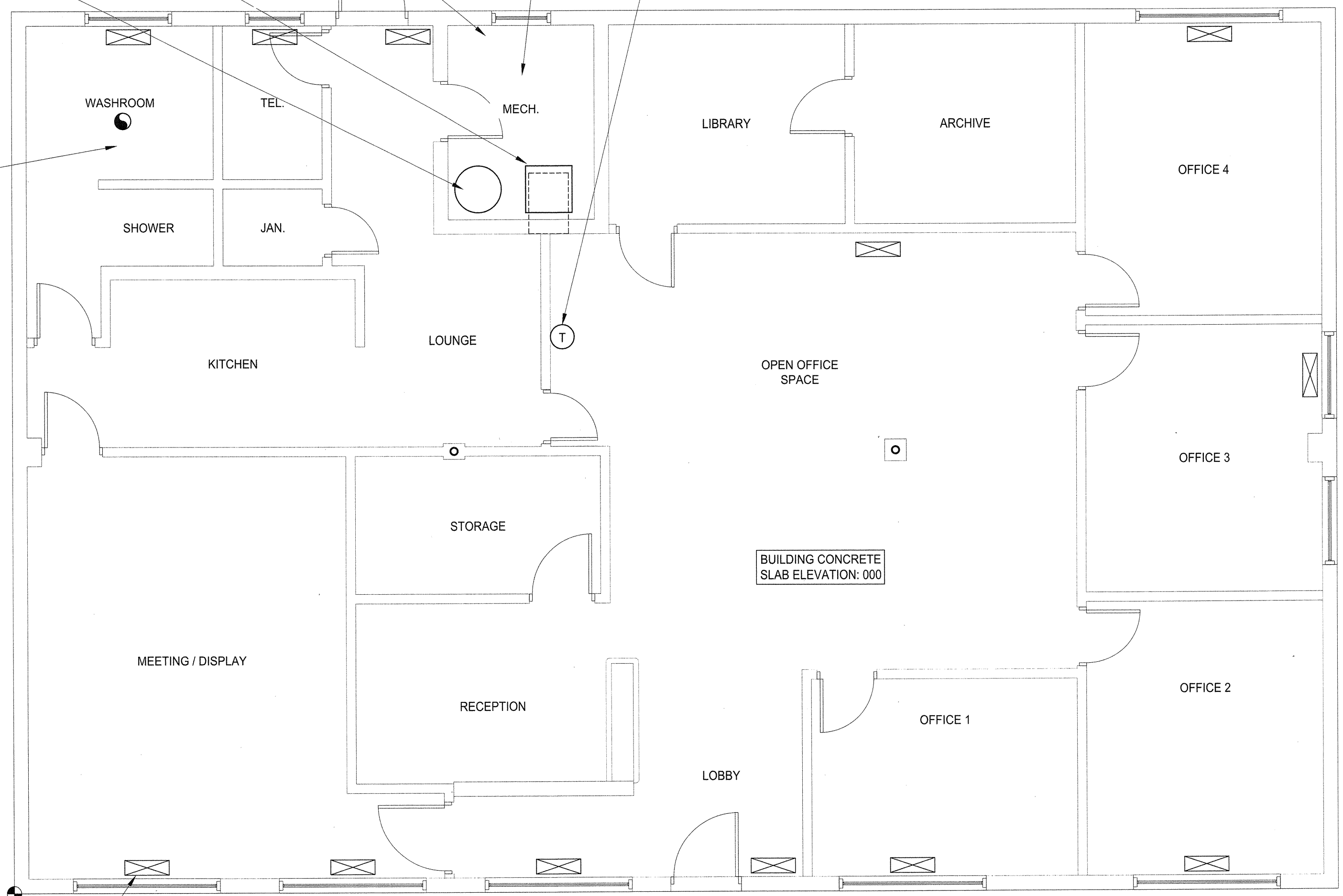
CAP GAS AT POINT OF ENTRY FOR FUTURE CONNECTION  
REMOVE AND DISPOSE OF EXISTING FURNACE AND ASSOCIATED DUCTWORK.  
REMOVE FLOOR SUPPLY AIR GRILLE AND CAP OFF BELOW FINISHED FLOOR LEVEL. REPLACE EXISTING GRILLE; SIMILAR AT ALL EXISTING SUPPLY GRILLE LOCATIONS.  
REMOVE AND DISPOSE OF EXISTING TANK-TYPE WATER HEATER

EXISTING WASHROOM FAN TO REMAIN

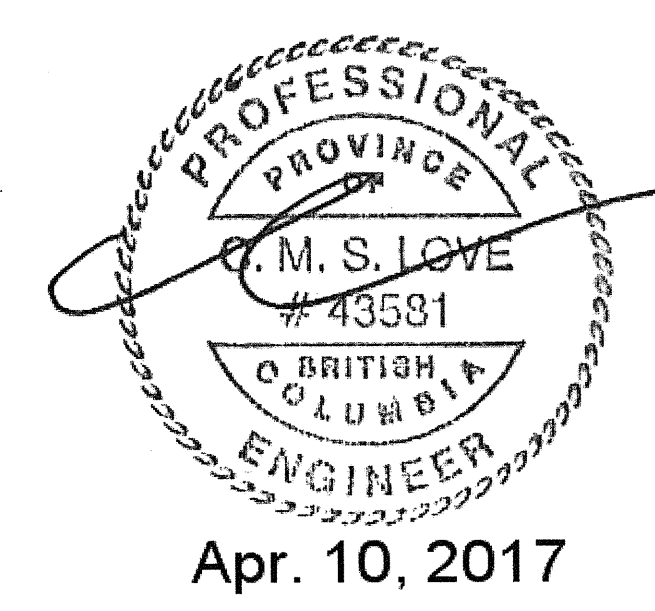
SEE ENLARGED PLAN THIS SHEET

REMOVE EXISTING THERMOSTAT

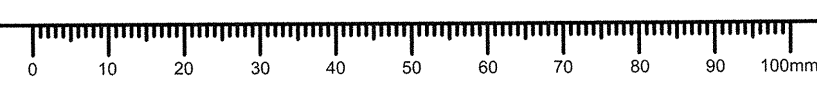
REMOVE FLOOR SUPPLY AIR GRILLE AND CAP OFF BELOW FINISHED FLOOR LEVEL. REPLACE EXISTING GRILLE; SIMILAR AT ALL EXISTING SUPPLY GRILLE LOCATIONS.

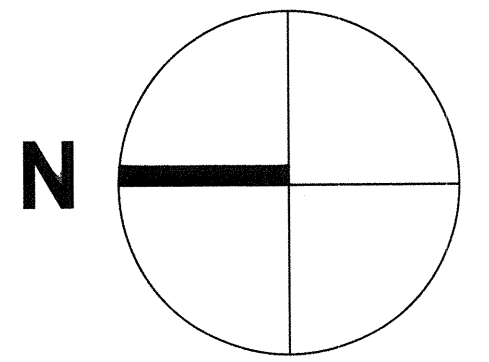


DEMOLITION PLAN - MECHANICAL  
SCALE 1:50



Apr. 10, 2017





**SYMBOLS LEGEND**

- O/A OUTDOOR AIR
  - E/A EXHAUST AIR
  - R/A RETURN AIR
  - S/A SUPPLY AIR
  - A.F.F. ABOVE FINISH FLOOR
  - DOM. COLD WATER
  - - - DOM. HOT WATER
  - G GAS
  - ⊘ ISOLATING (BALL) VALVE
  - SUPPLY DUCT
  - ⊘ SUPPLY DUCT
  - ⊘ RET/EXH DUCT
  - REFRIG
  - SUPPLY AND RETURN
  - FD FIRE DAMPER
  - M MOTORIZED DAMPER
  - BBD BACK DRAFT DAMPER
  - T THERMOSTAT
  - C TIMER CONTROLLER
  - SR SUPPLY REGISTER
  - RG RETURN GRILLE
  - CD CEILING DIFFUSER
- TAG  
NOM SIZE  
VOLUME L/s (CFM)

Revision / Revision	Description / Description	Date / Date
4	ISSUED FOR TENDER	APR. 10, 2017
3	ISSUED FOR TENDER	MAR. 22, 2017
2	ISSUED FOR 99% REVIEW	NOV. 18, 2016
1	ISSUED FOR REVIEW	AUG. 19, 2016

Client / client  
**PARKS CANADA  
WESTERN REGION  
STEVESTON, B.C. NATIONAL HISTORIC  
SITE**

Project title / Titre du projet  
**GULF OF GEORGIA CANNERY  
ADMIN. BUILDING**

12138 Fourth Ave., Richmond B.C.

Consultant Approval Box Only

Designed by / Conçue par  
PF

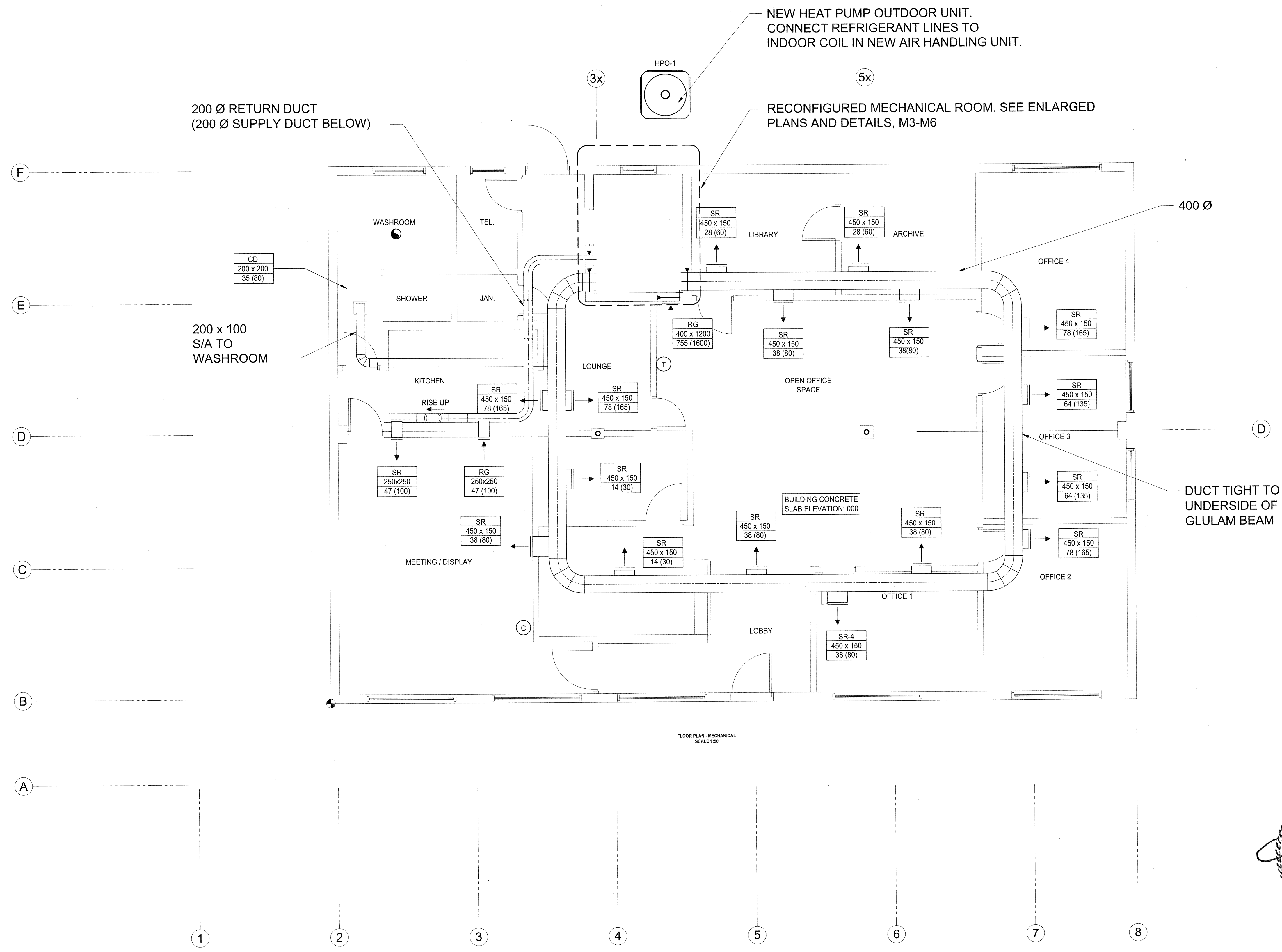
Drawn by / Dessiné par  
EW

PWGS, Project Manager / Administrateur de Projets TPSGC  
TOM DUNPHY

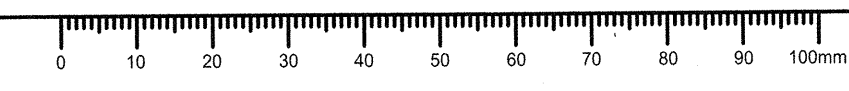
PWGS, Regional Manager, Architectural and Engineering Services /  
Gestionnaire régionale, Services d'architectural et de génie, TPSGC  
PRIETIPAL PAUL

Drawing title / Titre du dessin  
**FLOOR PLAN  
MECHANICAL**

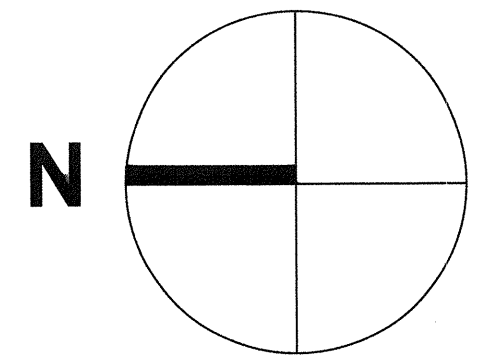
Project no. / no. du Projet R.060702.001	Sheet / Feuille M2	Revision no. / Révision no.
---	-----------------------	-----------------------------------



FLOOR PLAN - MECHANICAL  
SCALE 1:50

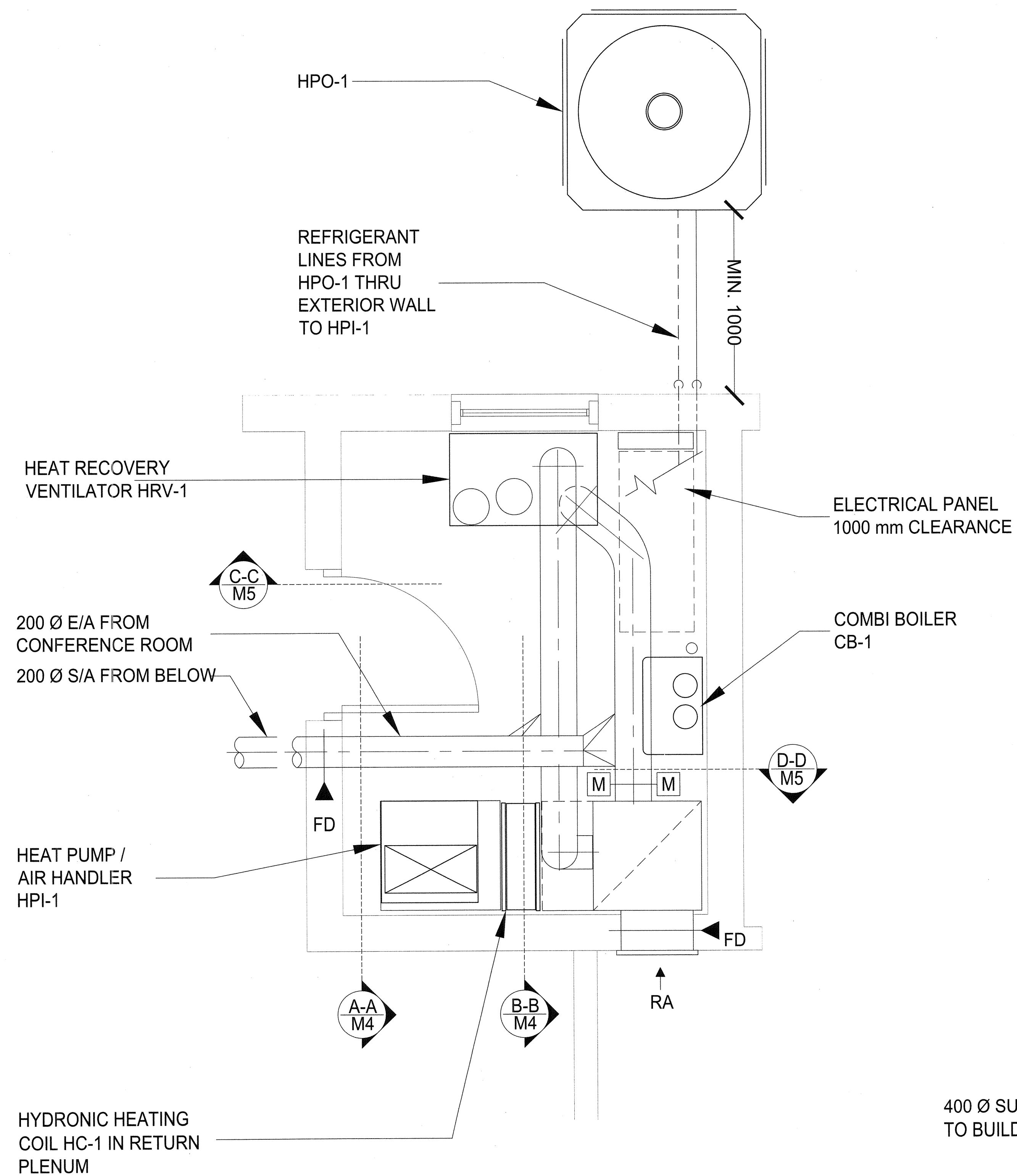


Apr. 10, 2017

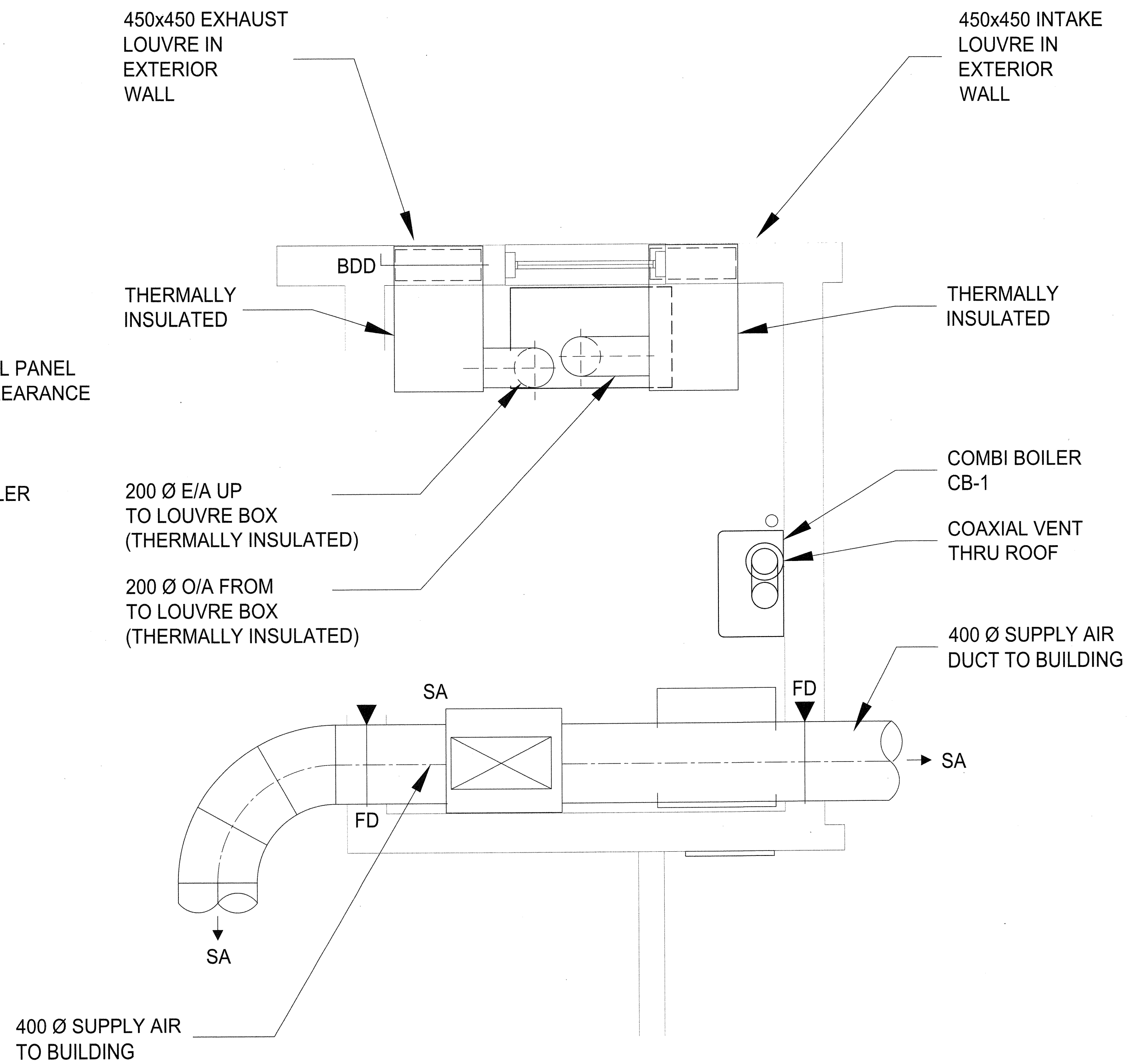


SYMBOLS LEGEND

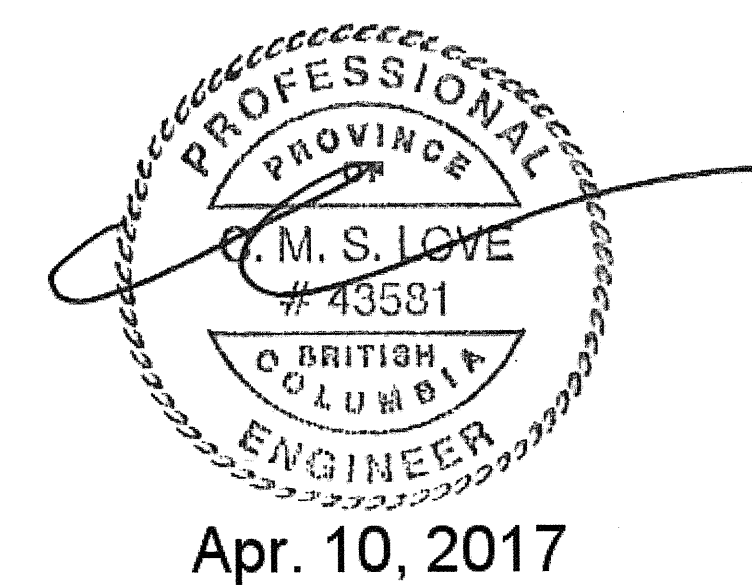
O/A	OUTDOOR AIR
E/A	EXHAUST AIR
R/A	RETURN AIR
S/A	SUPPLY AIR
A.F.F.	ABOVE FINISH FLOOR
---	DOM. COLD WATER
---	DOM HOT WATER
G	GAS
⊗	ISOLATING (BALL) VALVE
---	SUPPLY DUCT
⊗	SUPPLY DUCT
⊗	RET/EXH DUCT
---	REFRIG
---	SUPPLY AND RETURN
FD	FIRE DAMPER
M	MOTORIZED DAMPER
BDD	BACK DRAFT DAMPER
T	THERMOSTAT
C	TIMER CONTROLLER
SR	SUPPLY REGISTER
RG	RETURN GRILLE
CD	CEILING DIFFUSER
---	TAG
---	NOM SIZE
---	VOLUME L/s (CFM)



MECHANICAL ROOM PLAN AT 2200 AFF  
SCALE 1:16



MECHANICAL ROOM PLAN AT CEILING  
SCALE 1:16



4	ISSUED FOR TENDER	APR. 10, 2017
3	ISSUED FOR TENDER	MAR. 22, 2017
2	ISSUED FOR 99% REVIEW	NOV. 18, 2016
1	ISSUED FOR REVIEW	AUG. 19, 2016
Revision /	Description / Description	Date / Date

Client / client  
**PARKS CANADA  
WESTERN REGION**  
STEVESTON, B.C. NATIONAL HISTORIC SITE

Project title / Titre du projet  
**GULF OF GEORGIA CANNERY  
ADMIN. BUILDING**  
12138 Fourth Ave., Richmond B.C.

Consultant Approval Box Only

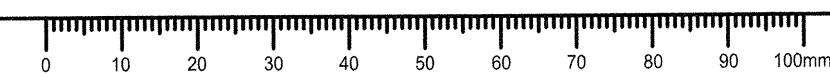
Designed by / Concept par  
PF

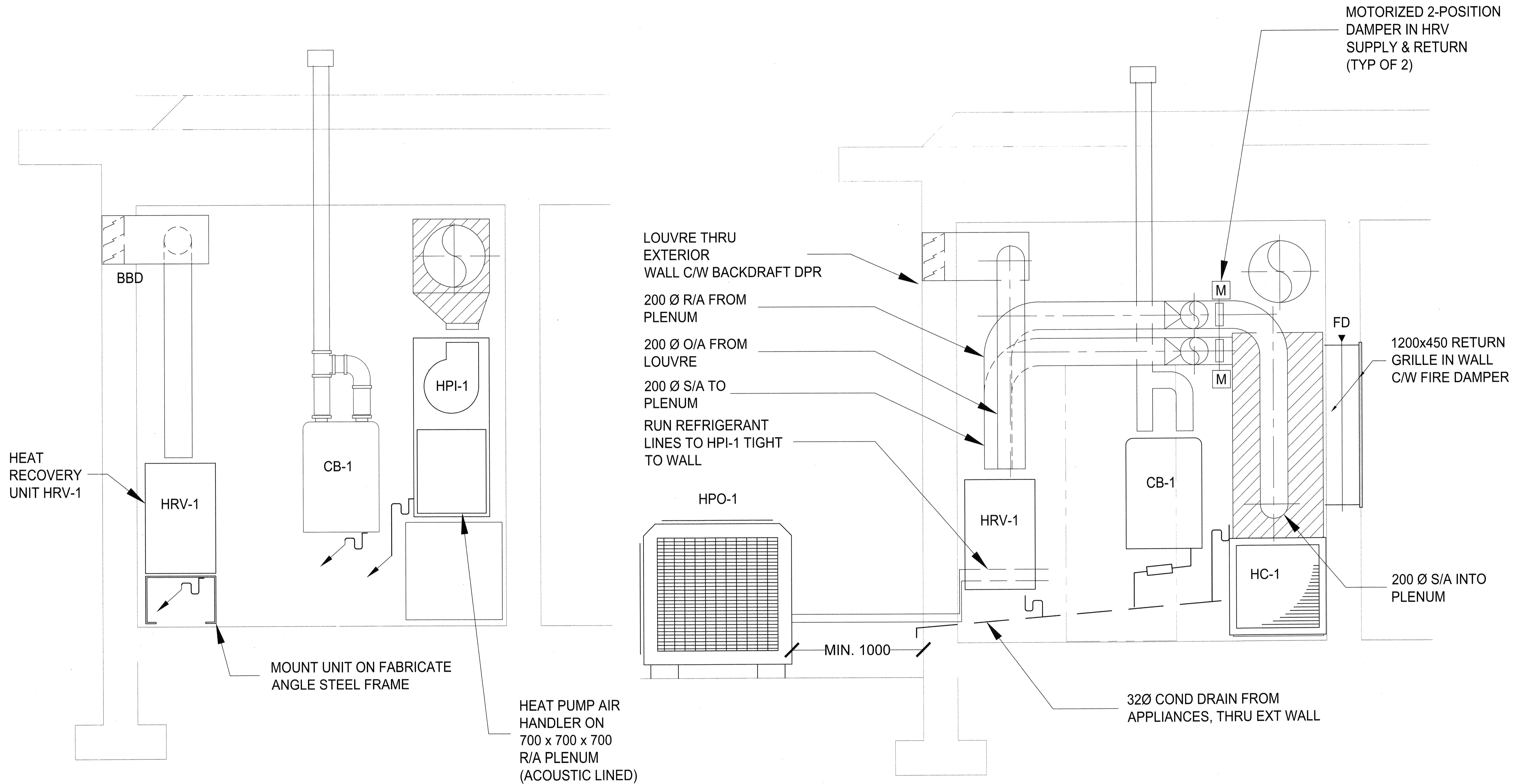
Drawn by / Dessiné par  
EW

PWGSC, Project Manager / Administrateur de Projets TPSGC  
**TOM DUNPHY**  
PWGSC, Regional Manager, Architectural and Engineering Services /  
Gestionnaire régionale, Services d'architectural et de génie, TPSGC  
PREETIPAL PAUL

Drawing title / Titre du dessin  
**MECHANICAL ROOM PLAN**

Project no. / no. du Projet R.060702.001	Sheet / Feuille M3	Revision no. / La Revision no.
---	-----------------------	---





**SYMBOLS LEGEND**

O/A	OUTDOOR AIR
E/A	EXHAUST AIR
R/A	RETURN AIR
S/A	SUPPLY AIR
A.F.F.	ABOVE FINISH FLOOR
---	DOM. COLD WATER
---	DOM. HOT WATER
G	GAS
⊗	ISOLATING (BALL) VALVE
— —	SUPPLY DUCT
⊗	SUPPLY DUCT
⊗	RET/EXH DUCT
---	REFRIG
---	SUPPLY AND RETURN
FD	FIRE DAMPER
M	MOTORIZED DAMPER
BBD	BACK DRAFT DAMPER
T	THERMOSTAT
C	TIMER CONTROLLER
SR	SUPPLY REGISTER
RG	RETURN GRILLE
CD	CEILING DIFFUSER
—	TAG
—	NOM SIZE
—	VOLUME L/s (CFM)

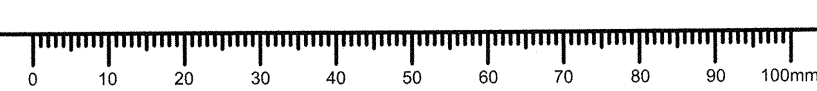
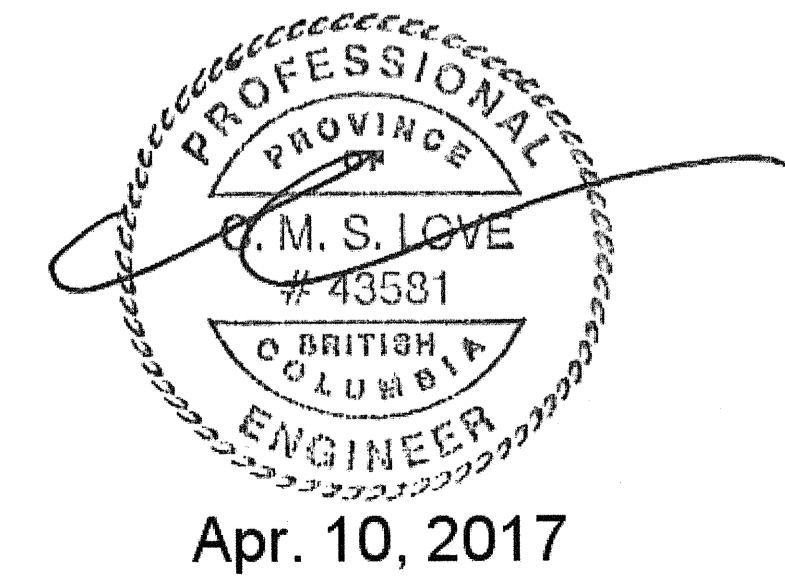
4	ISSUED FOR TENDER	APR. 10, 2017
3	ISSUED FOR TENDER	MAR. 22, 2017
2	ISSUED FOR 99% REVIEW	NOV. 18, 2016
1	ISSUED FOR REVIEW	AUG. 19, 2016
Revision /	Description / Description	Date / Date

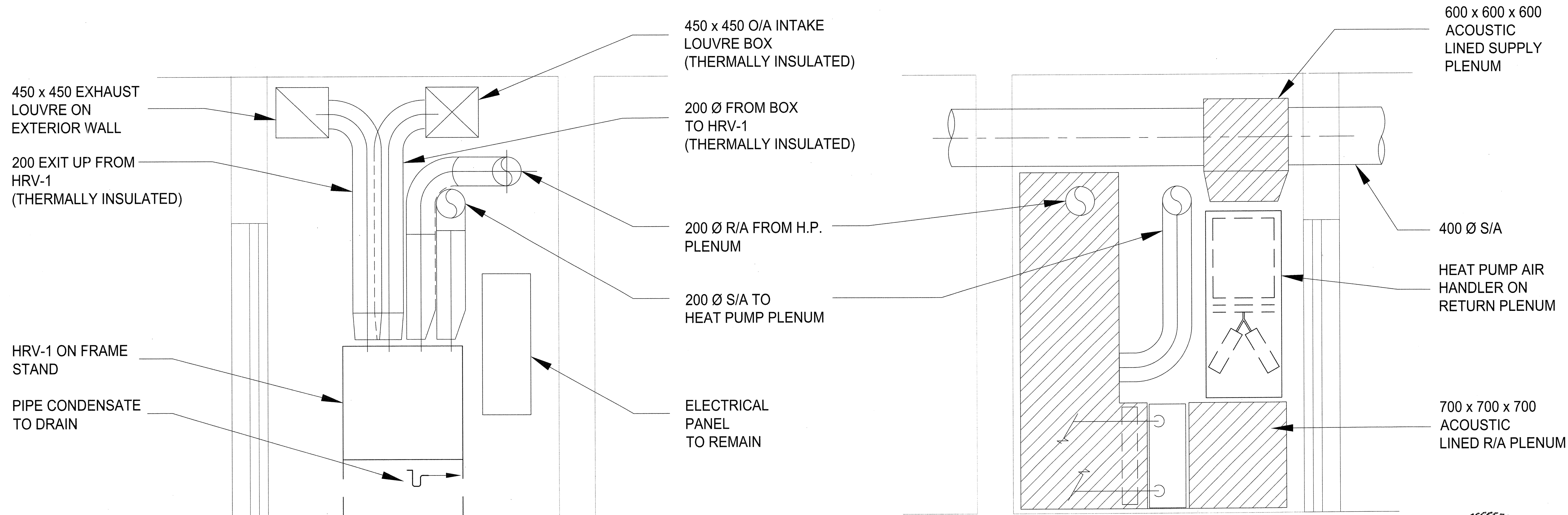
Client / client  
**PARKS CANADA**  
**WESTERN REGION**  
STEVESTON, B.C. NATIONAL HISTORIC SITE

Project title / Titre du projet  
**GULF OF GEORGIA CANNERY**  
**ADMIN. BUILDING**  
12138 Fourth Ave., Richmond B.C.

Consultant Approval Box Only  
Designed by / Concepté par  
PF  
Drawn by / Dessiné par  
EW  
PWGSC, Project Manager / Administrateur de Projets TPSGC  
TOM DUNPHY  
PWGSC, Regional Manager, Architectural and Engineering Services /  
Gestionnaire régional, Services d'architecture et de génie, TPSGC  
PREETIPAL PAUL  
Drawing title / Titre du dessin  
**MECHANICAL ROOM SECTIONS**

Project no. / no. du projet R.060702.001	Sheet / Feuille M4	Revision no. / La Revision no.
---	-----------------------	---





**SYMBOLS LEGEND**

- O/A OUTDOOR AIR
- E/A EXHAUST AIR
- R/A RETURN AIR
- S/A SUPPLY AIR
- A.F.F. ABOVE FINISH FLOOR
- DOM. COLD WATER
- DOM HOT WATER
- G - GAS
- ISOLATING (BALL) VALVE
- SUPPLY DUCT
- RET/EXH DUCT
- REFRIG
- SUPPLY AND RETURN
- FD FIRE DAMPER
- M MOTORIZED DAMPER
- BBD BACK DRAFT DAMPER
- T THERMOSTAT
- C TIMER CONTROLLER
- SR SUPPLY REGISTER
- RG RETURN GRILLE
- CD CEILING DIFFUSER

- TAG
- NOM SIZE
- VOLUME L/s (CFM)



HVAC EQUIPMENT LIST									
TAG	DESCRIPTION	CAPACITY			EFFICIENCY	ELECTRICAL			REMARKS
		NOMINAL HEATING kW (MBH)	NOMINAL COOLING kW (MBH)	L/s (CFM)		V.P.C.	MIN CIRCUIT AMPS	FAN MOTOR kW (HP)	
HPI-1	HEAT PUMP INDOOR SECTION	-	-	755 (1600)	240-1-60	9.0	0.6 (3/4)	INSULATED CABINET AND FLEX CONNECTIONS AT DUCTS	
HPO-1	HEAT PUMP OUTDOOR SECTION	10 (33.0)	13 (44.0) <sup>(1)</sup>		240-1-60	29.2		MOUNTED AT GRADE LEVEL	
HRV-1	AIR TO AIR HEAT RECOVERY UNIT	-	-	113 (239)	120-1-60	6	2 @ 0.2 (2@1/4)	ALUMINUM CORE ASSEMBLY AND MERV 8 FILTER, ON ANKLE FRAME STAND	
CB-1	COMBI HTG AND DOM WATER BOILER	58 (199)	-	-	120-1-60	-	-	SEALED COMBUSTION UNIT WITH COAXIAL VENT PACKAGE AND CONDENSATE NEUTRALIZER	
HWC-1	HYDRONIC HEATING COIL	13 @ 0.2 L/s (44.3 @ 3GPM)	-	755 (1600)	-	-	-	-	

(1) TOTAL COOLING CAPACITY @ 29°C DB/19°C WB (85°F DB/67°F WB)

AIR TERMINALS			
TYPE	DRAWING SYMBOL	DESCRIPTION	MANUFACTURER AND MODEL
SUPPLY REGISTER	SR	ALUMINUM, DOUBLE DEFLECTION, ADJUSTABLE BARS @ 18MM CENTRES, FRONT BLADES PARALLEL TO LONG DIMENSION; VOLUME DAMPER; 32MM WIDE BORDER; WHITE FINISH	TITUS 272 FL
RETURN GRILLE	RG, RR	ALUMINUM, SINGLE DEFLECTION, FIXED BARS @ 18MM CENTRES, BLADES PARALLEL TO LONG DIMENSION; VOLUME DAMPER; 32MM WIDE BORDER; WHITE FINISH	TITUS 350 FL
EXHAUST GRILLE	EG	ALUMINUM, SINGLE DEFLECTION, FIXED BARS @ 18MM CENTRES, BLADES PARALLEL TO LONG DIMENSION; 32MM WIDE BORDER; WHITE FINISH	TITUS 350 FL
EXHAUST REGISTER	ER	ALUMINUM, SINGLE DEFLECTION, FIXED BARS @ 18MM CENTRES, BLADES PARALLEL TO LONG DIMENSION; VOLUME DAMPER, 32MM WIDE BORDER; WHITE FINISH	TITUS 350 FL
DOOR GRILLE		INVERTED VEE STYLE ALUMINUM DOOR TRANSFER GRILLE WITH BACKING FLANGE 600 X 300 UNLESS OTHERWISE NOTED	TITUS CT700L-AF
TRANSFER GRILLE	TG	SAME AS RG (NO DAMPER)	TITUS 350 FL

4	ISSUED FOR TENDER	APR. 10, 2017
3	ISSUED FOR TENDER	MAR. 22, 2017
2	ISSUED FOR 99% REVIEW	NOV. 18, 2016
1	ISSUED FOR REVIEW	AUG. 19, 2016

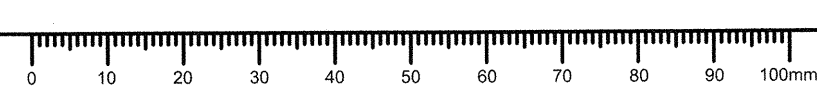
Client / client  
**PARKS CANADA**  
**WESTERN REGION**  
 STEVESTON, B.C. NATIONAL HISTORIC SITE

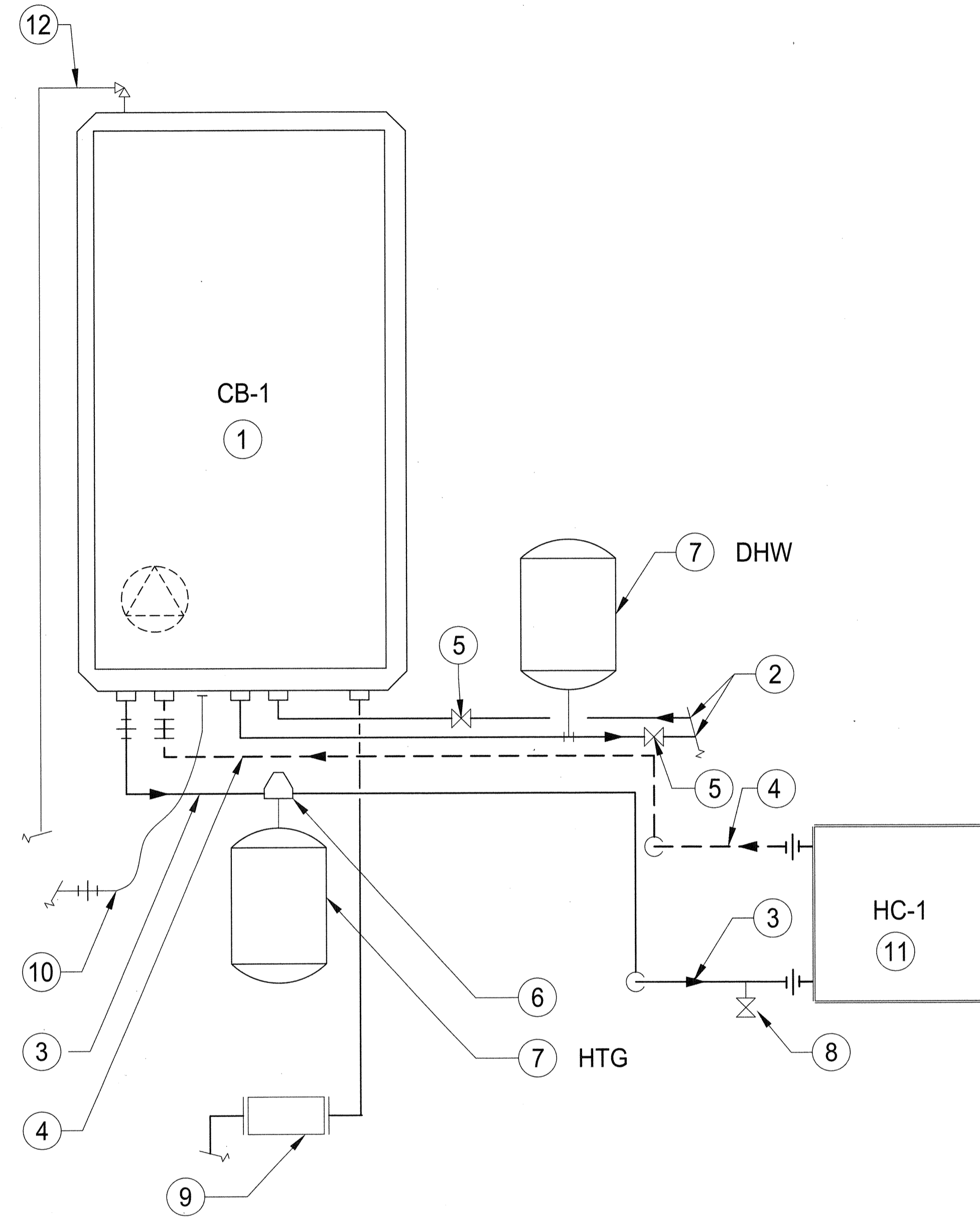
Project title / Titre du projet  
**GULF OF GEORGIA CANNERY ADMIN. BUILDING**  
 12138 Fourth Ave., Richmond B.C.

Consultant Approval Box Only  
 Designed by / Conçepé par  
 PF  
 Drawn by / Dessiné par  
 EW  
 PWSSC, Project Manager / Administrateur de Projets TPSGC  
**TOM DUNPHY**  
 PWSSC, Regional Manager, Architectural and Engineering Services / Gestionnaire régionale, Services d'architectural et de génie, TPSGC  
**PREETIPAL PAUL**

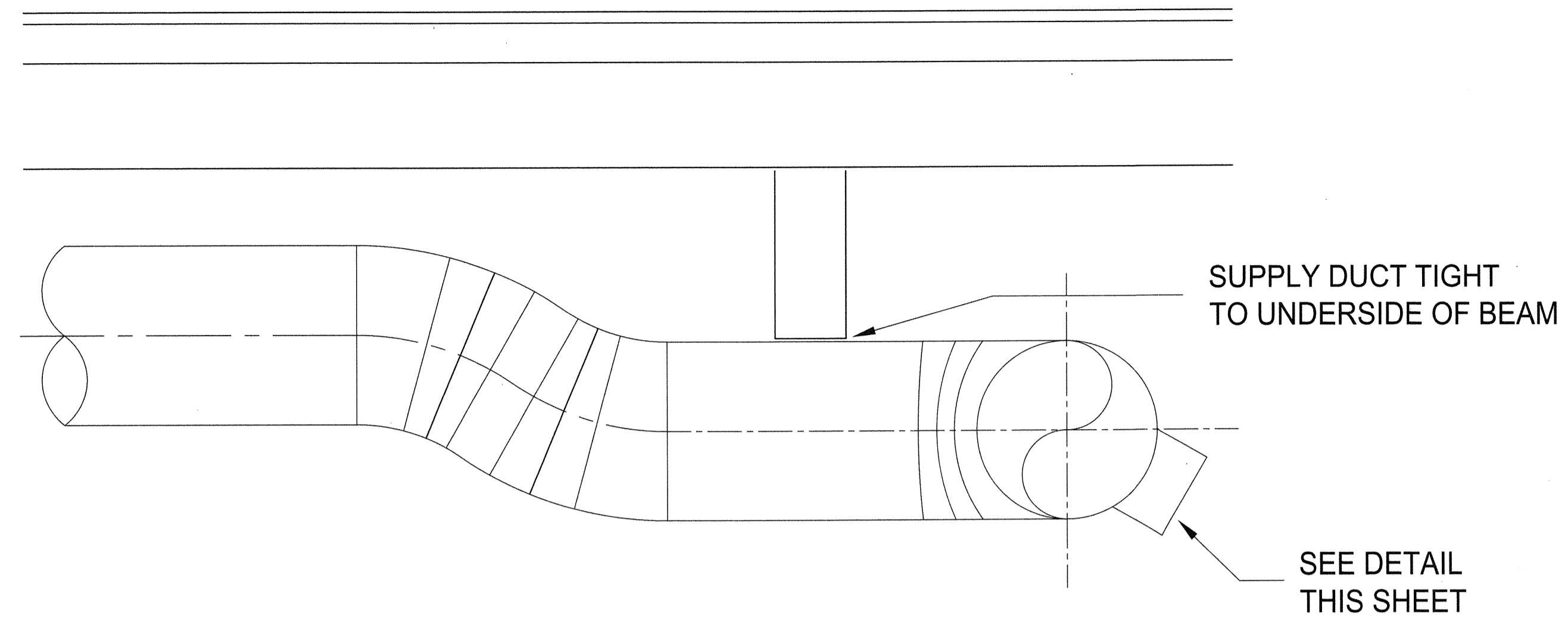
Drawing title / Titre du dessin  
**MECHANICAL ROOM SECTIONS**

Project no. / no. du Projet	Sheet / Feuille	Revision no. / La Revision no.
R.060702.001	M5	

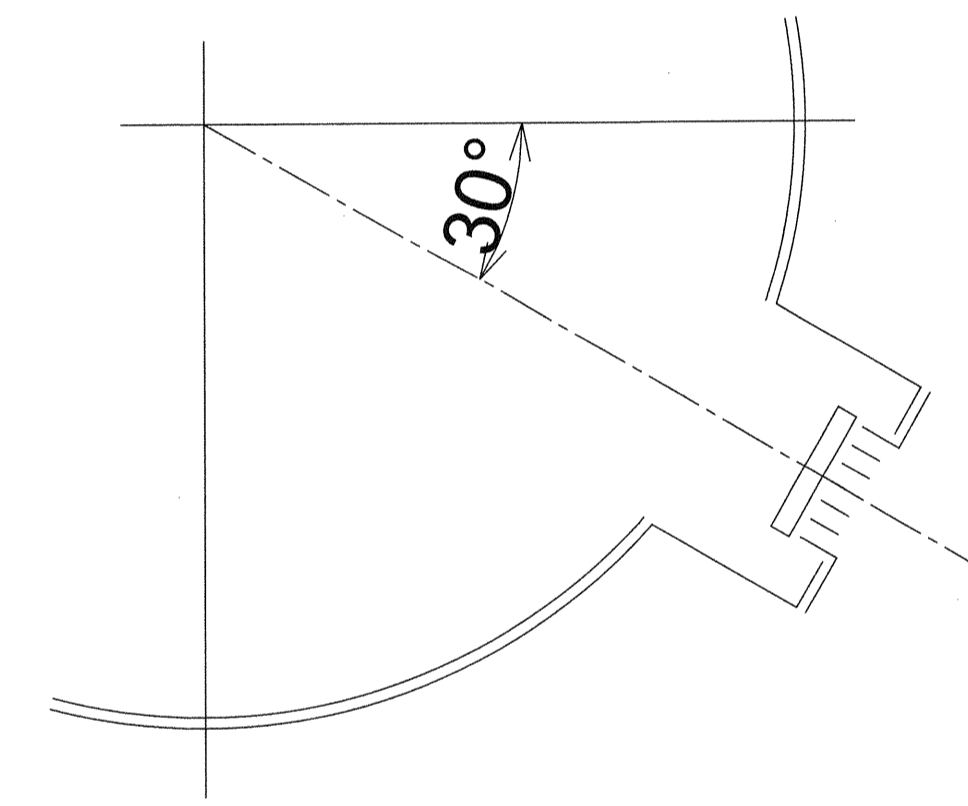




- ① COMBI BOILER CB-1
- ② EXTEND & CONNECT TO EXISTING DHW & DCW SYSTEM
- ③ 25 HWS TO HEATING COIL HC-1
- ④ 25 HWR FROM HEATING COIL HC-1
- ⑤ ISOLATING (BALL) VALVE
- ⑥ AIR SEPARATOR
- ⑦ DIAPHRAGM EXPANSION TANK
- ⑧ STOP & DRAIN
- ⑨ CONDENSATE DRAIN C/W NEUTRALIZER - PIPE TO DRAIN
- ⑩ CONNECT TO EXISTING GAS SUPPLY C/W FLEX CONN.
- ⑪ HEATING COIL HC-1
- ⑫ T&P VALVE. PIPE TO DRAIN



**DETAIL - SUPPLY DUCT AT BEAM**  
SCALE 1:10



**DETAIL - SUPPLY REGISTER TAKEOFF**  
NTS

**SYMBOLS LEGEND**

O/A	OUTDOOR AIR
E/A	EXHAUST AIR
R/A	RETURN AIR
S/A	SUPPLY AIR
A.F.F.	ABOVE FINISH FLOOR
---	DOM. COLD WATER
---	DOM HOT WATER
- G -	GAS
⊗	ISOLATING (BALL) VALVE
---	SUPPLY DUCT
⊗	SUPPLY DUCT
⊗	RET/EXH DUCT
---	REFRIG
---	SUPPLY AND RETURN
FD	FIRE DAMPER
M	MOTORIZED DAMPER
BBD	BACK DRAFT DAMPER
T	THERMOSTAT
C	TIMER CONTROLLER
SR	SUPPLY REGISTER
RG	RETURN GRILLE
CD	CEILING DIFFUSER
---	TAG
---	NOM SIZE
---	VOLUME L/s (CFM)

4	ISSUED FOR TENDER	APR. 10, 2017
3	ISSUED FOR TENDER	MAR. 22, 2017
2	ISSUED FOR 99% REVIEW	NOV. 18, 2016
1	ISSUED FOR REVIEW	AUG. 19, 2016

Revision / Revisión	Description / Description	Date / Date
------------------------	------------------------------	----------------

Client / client  
**PARKS CANADA**  
WESTERN REGION  
STEVESTON, B.C. NATIONAL HISTORIC  
SITE

Project title / Titre du projet  
**GULF OF GEORGIA CANNERY  
ADMIN. BUILDING**  
  
12138 Fourth Ave., Richmond B.C.

Consultant Approval Box Only

Designed by / Concept par  
PF

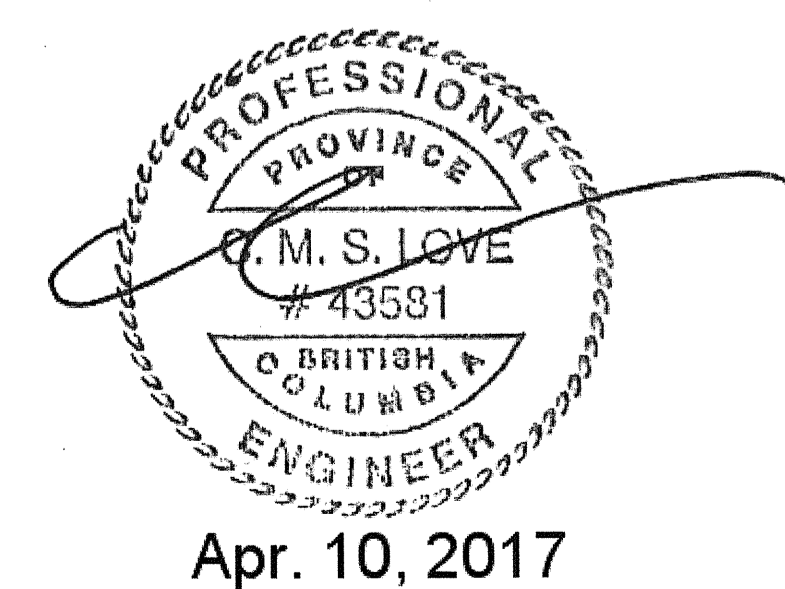
Drawn by / Dessiné par  
EW

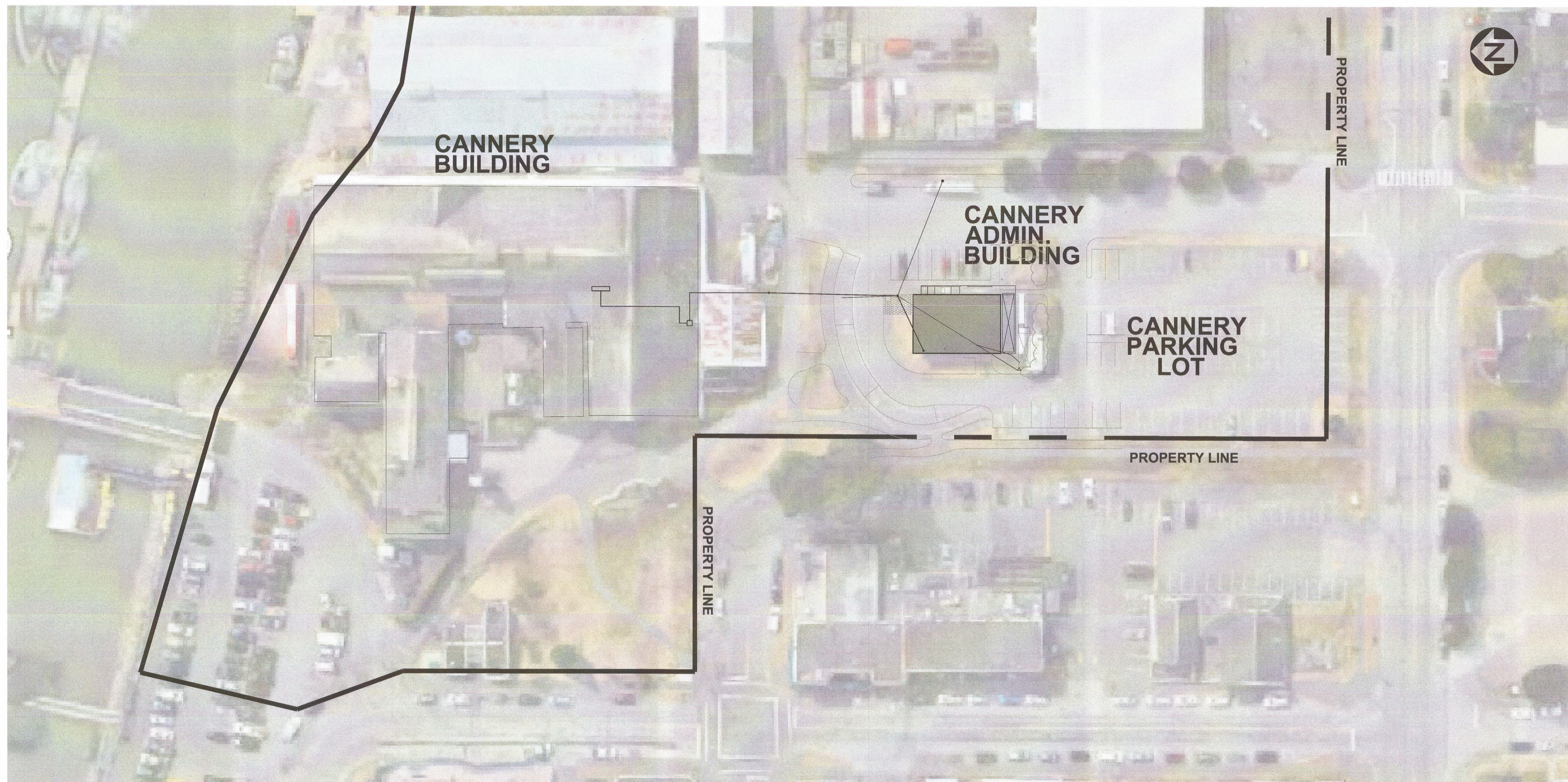
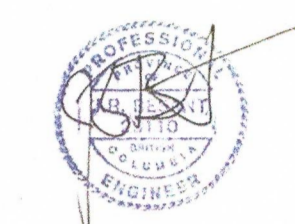
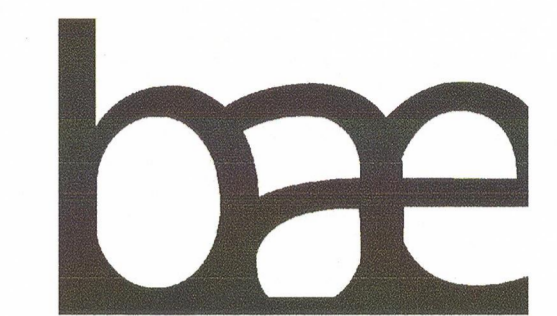
PWGSC, Project Manager / Administrateur de Projets TPSGC  
TOM DUNPHY

PWGSC, Regional Manager, Architectural and Engineering Services /  
Gestionnaire régionale, Services d'architecture et de génie, TPSGC  
PREETIPAL PAUL

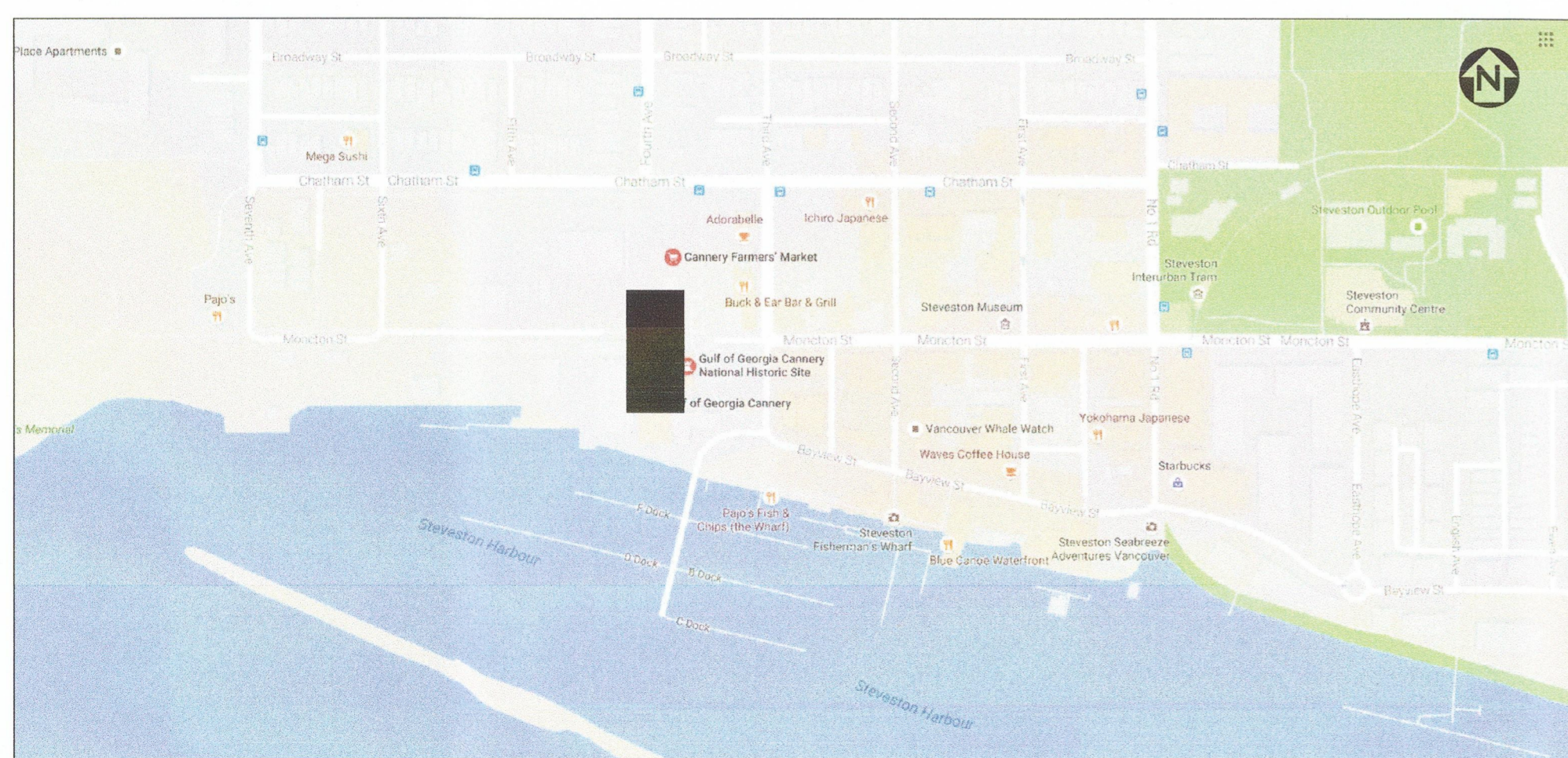
Drawing title / Titre du dessin  
**MECHANICAL ROOM DETAILS**

Project no. / no. du Projet. R.060702.001	Sheet / Feuille M6	Revision no. / La Revisión no.
--	-----------------------	---





**SITE PLAN**  
1:500



**LOCATION PLAN**  
NTS

2	ISSUED FOR TENDER	04/10/17
1	ISSUED FOR TENDER	02/22/17
Revision/	Description/Description	Date/Date

Client/client  
**PARKS CANADA**  
**WESTERN REGION**  
 STEVESTON, B.C. NATIONAL HISTORIC SITE

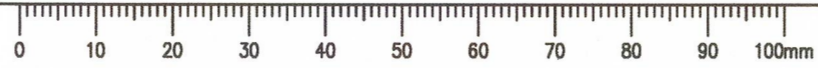
Project title/Titre du projet  
**GULF OF GEORGIA**  
**CANNERY**  
**ADMINISTRATION**  
**BUILDING**  
 12138 FOURTH AVE,  
 RICHMOND, BC

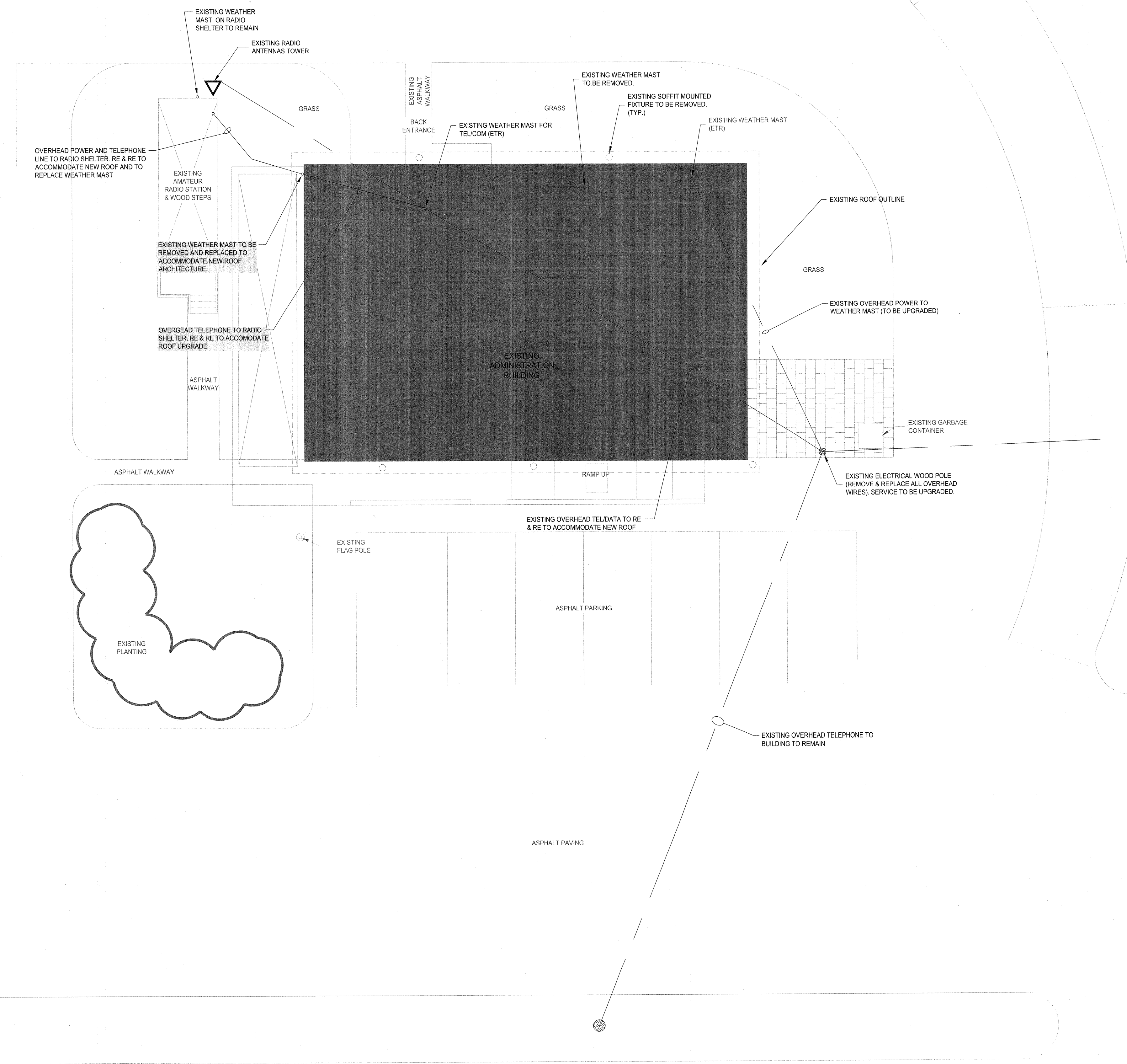
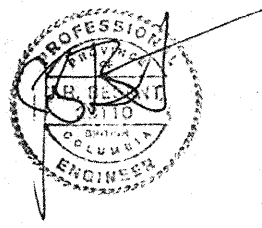
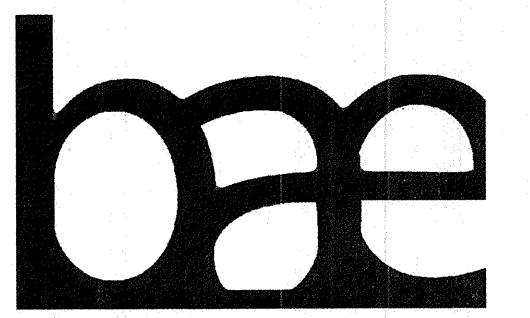
Consultant Signature Only  
**J.R. BESANT**  
 Designed by/Concept par  
**J.R. BESANT**  
 Drawn by/Dessiné par  
**C. INNES**  
 PWGSC Project Manager/Administrateur de Projets TPSGC  
**T. DUNPHY**  
 Regional Manager, Architectural and Engineering Services  
 Gérant régional, Services d'architectural et de génie, TPSGC  
**PREETIPAL PAUL**  
 Drawing title/Titre du dessin

**ELECTRICAL**  
**COVERSHEET**

Project No./No. du projet <b>R.060702.001</b>	Sheet/Feuille <b>E1</b> OF 12	Revision no./La révision no. <b>2</b>
--	-------------------------------------	--

DRAWING SCHEDULE				
ID	NAME	DATE	ISSUE	REV.
E1	ELECTRICAL COVERSHEET	04/10/2017	FOR TENDER	2
E2	SITE PLAN	04/10/2017	FOR TENDER	2
E3	ELECTRICAL PLAN – LIGHTING	04/10/2017	FOR TENDER	2
E4	LIGHTING PLAN	04/10/2017	FOR TENDER	2
E5	ELECTRICAL PLAN	04/10/2017	FOR TENDER	2
E6	MECHANICAL ROOM PLAN	04/10/2017	FOR TENDER	2
E7	MECHANICAL ROOM SECTIONS	04/10/2017	FOR TENDER	2
E8	ELECTRICAL POWER ROUTING – MUSEUM TO ADMIN	04/10/2017	FOR TENDER	2
E8	PANEL SCHEDULE, LIGHTING SCHEDULE AND LEGEND	04/10/2017	FOR TENDER	2
E9	BUILDING ELEVATION – EAST	04/10/2017	FOR TENDER	2
E10	ELECTRICAL NOTES SH. 1 of 2	04/10/2017	FOR TENDER	2
E11	ELECTRICAL NOTES SH. 2 of 2	04/10/2017	FOR TENDER	2





NOTES:  
1. GUY LINES TO RADIO SHELTER ANTENNA TOWER TO REMAIN IN PLACE FOR THIS PROJECT.

2	ISSUED FOR TENDER	04/10/17
1	ISSUED FOR TENDER	02/22/17
Revision/	Description/Description	Date/Date
Client/client		

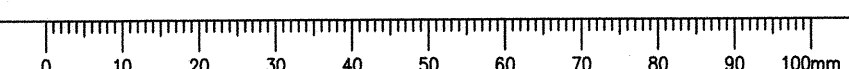
**PARKS CANADA  
WESTERN REGION**  
STEVESTON, B.C. NATIONAL HISTORIC SITE

Project title/Titre du projet  
**GULF OF GEORGIA  
CANNERY  
ADMINISTRATION  
BUILDING**  
12138 FOURTH AVE,  
RICHMOND, BC

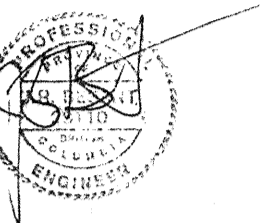
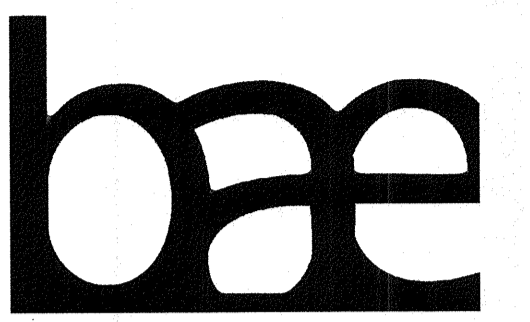
Consultant Signature Only  
**J.R. BESANT**  
Designed by/Concept par  
**J.R. BESANT**  
Drawn by/Dessine par  
**C. INNES**  
PWSSC Project Manager/Administrateur de Projets TPSSC  
**T. DUNPHY**  
Regional Manager, Architectural and Engineering Services  
Gestionnaire régionale, Services d'architecture et de génie, TPSSC  
**PREETIPAL PAUL**

Drawing title/Titre du dessin  
**ELECTRICAL  
SITE PLAN**

Project No./No. du projet <b>R.060702.001</b>	Sheet/Feuille <b>E2</b> OF 12	Revision no./Lo Révision no. <b>2</b>
--	-------------------------------------	--

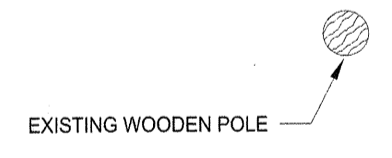






LEGEND:

- FLUORESCENT LUMINAIRE (NEW)
- T-BAR FLUORESCENT LUMINAIRE (NEW)
- EXISTING T-BAR FLUORESCENT LUMINAIRE (ETR)
- WALL SCONCE
- WALL POT OR HID LUMINAIRE
- POLE MOUNTED LUMINAIRE
- SINGLE POLE SWITCH
- THREE WAY SWITCH
- LUMINAIRE (TYPE)
- DUPLEX RECEPTACLE
- CEILING MOUNTED RECEPTACLE
- SINGLE RECEPTACLE
- PANELBOARD
- ETR EXISTING TO REMAIN
- REM REMOVE EXISTING
- RR REMOVE AND REPLACE
- EX LF EXISTING LIGHT FIXTURE
- LF LIGHT FIXTURE



LIGHTING PLAN - DEMOLITION  
1:50

NOTES:

1. REMOVE EXTERIOR LIGHTING UNDER SOFFITS. THESE FIXTURES ARE TO BE REPLACED.
2. ALL LIGHT FIXTURES TO BE REMOVED AND REPLACED IN BUILDING UNLESS NOTED OTHERWISE THE LIGHTS HAVE TO BE TAKEN DOWN TO ACCOMMODATE NEW OPEN CEILING PLAN. THEY ARE TO BE SCREWED DIRECTLY TO THE EXPOSED FRAMING IN THEIR EXISTING LOCATIONS.
3. LOCATE FIXTURES TO SUIT LIGHTING REQUIREMENTS AND TO ACCOMMODATE NEW MECHANICAL SYSTEMS.

Revision/Revisior	Description/Description	Date/Date
2	ISSUED FOR TENDER	04/10/17
1	ISSUED FOR TENDER	02/22/17

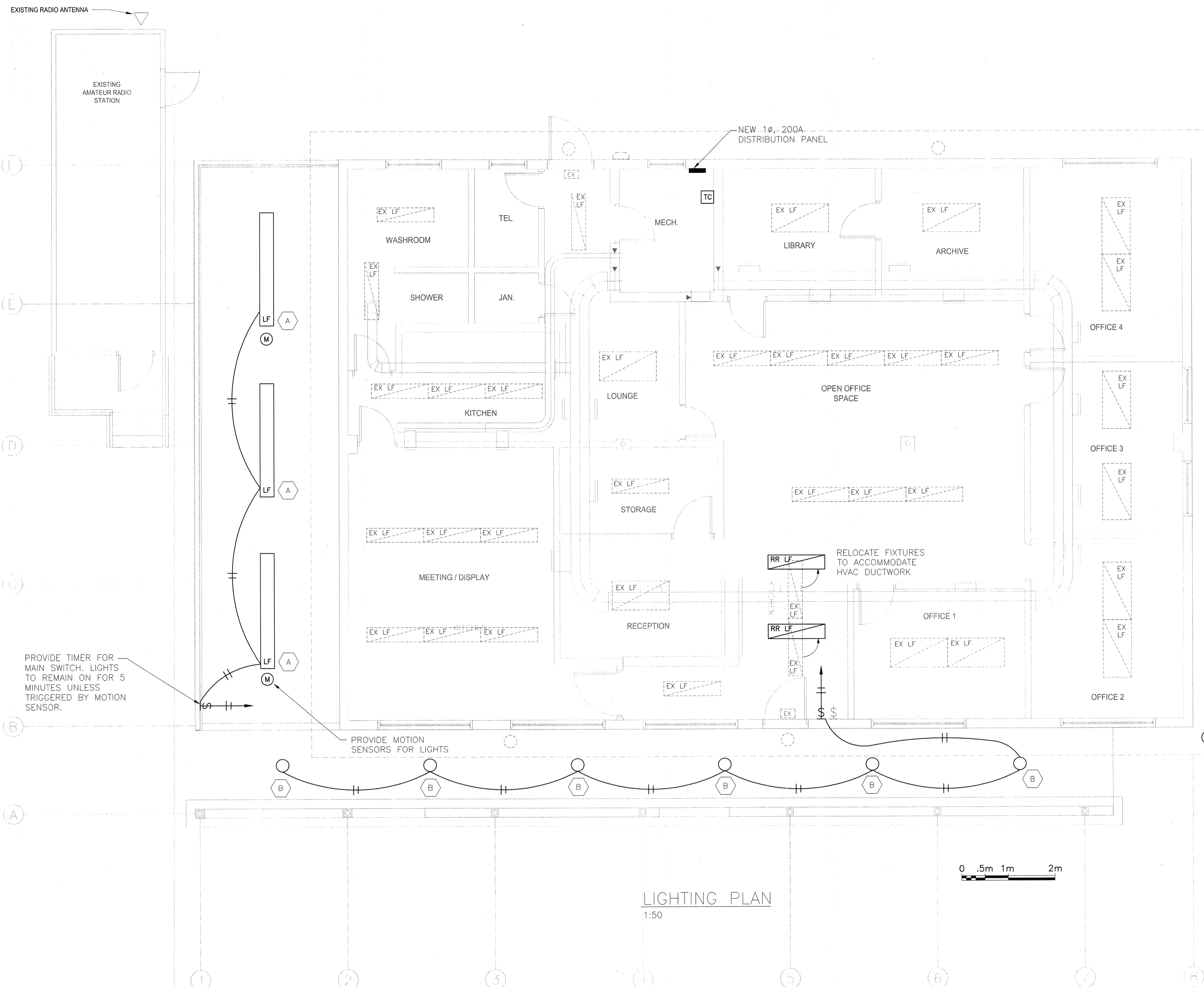
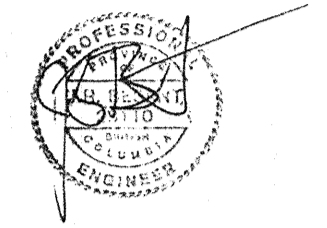
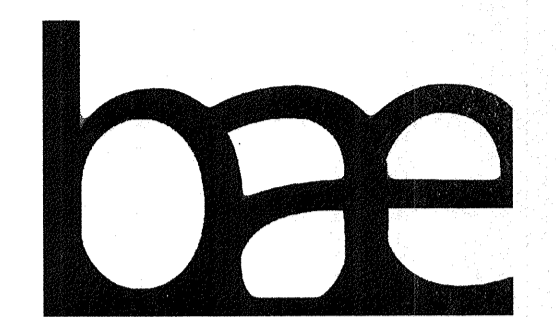
Client/client  
**PARKS CANADA  
WESTERN REGION**  
STEVESTON, B.C. NATIONAL HISTORIC SITE

Project title/Titre du projet  
**GULF OF GEORGIA  
CANNERY  
ADMINISTRATION  
BUILDING**  
12138 FOURTH AVE,  
RICHMOND, BC

Consultant Signature Only  
**J.R. BESANT**  
Designed by/Concept par  
**J.R. BESANT**  
Drawn by/Dessine par  
**C. INNES**  
PWSSC Project Manager/Administrateur de Projets TPSSC  
**T. DUNPHY**  
Regional Manager, Architectural and Engineering Services  
Gestionnaire régionale, Services d'architectural et de génie, TPSSC  
**PREETIPAL PAUL**  
Drawing title/Titre du dessin

**ELECTRICAL PLAN  
LIGHTING**

Project No./No. du projet <b>R.060702.001</b>	Sheet/Feuille <b>E3</b> OF 12	Revision no./ La Révision no. <b>2</b>
--	-------------------------------------	--

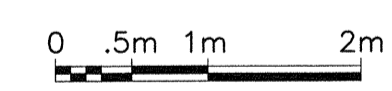


- LEGEND:**
- [Symbol] FLUORESCENT LUMINAIRE (NEW)
  - [Symbol] T-BAR FLUORESCENT LUMINAIRE (NEW)
  - [Symbol] EXISTING T-BAR FLUORESCENT LUMINAIRE (ETR)
  - (M) MOTION SENSOR
  - (D) WALL SCONCE
  - [Symbol] WALL POT OR HID LUMINAIRE
  - [Symbol] POLE MOUNTED LUMINAIRE
  - [Symbol] SINGLE POLE SWITCH
  - [Symbol] THREE WAY SWITCH
  - (101) LUMINAIRE (TYPE)
  - [Symbol] DUPLEX RECEPTACLE
  - [Symbol] CEILING MOUNTED RECEPTACLE
  - [Symbol] SINGLE RECEPTACLE
  - [Symbol] PANELBOARD
  - ETR EXISTING TO REMAIN
  - REM REMOVE EXISTING
  - RR REMOVE AND REPLACE OR RELOCATED AS INDICATED
  - EX LF EXISTING LIGHT FIXTURE
  - LF LIGHT FIXTURE

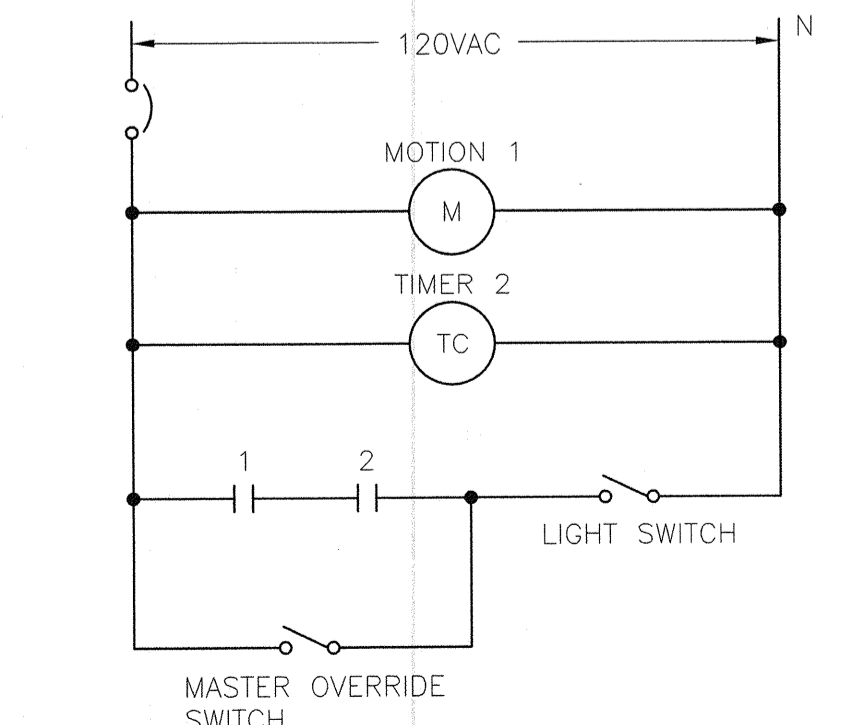
PROVIDE TIMER FOR MAIN SWITCH. LIGHTS TO REMAIN ON FOR 5 MINUTES UNLESS TRIGGERED BY MOTION SENSOR.

PROVIDE MOTION SENSORS FOR LIGHTS

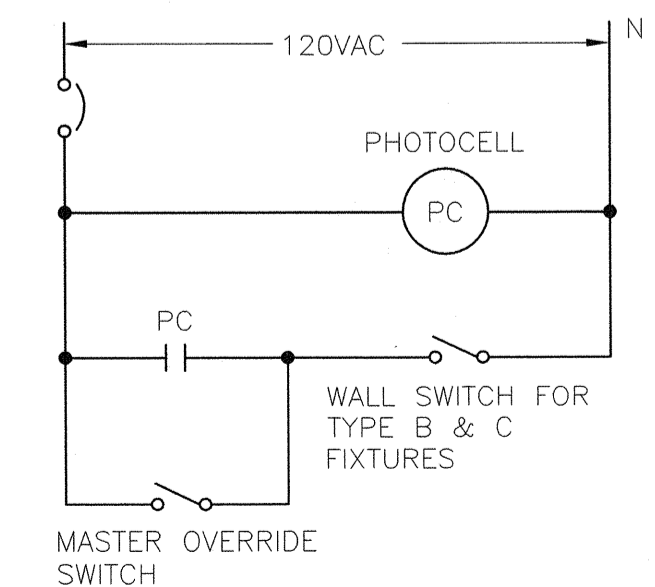
RELOCATE FIXTURES TO ACCOMMODATE HVAC DUCTWORK



**LIGHTING PLAN**  
1:50



**INTERIOR LIGHTING CONTROL SCHEMATIC**



**EXTERIOR LIGHTING CONTROL SCHEMATIC**

LIGHTING FIXTURE LEGEND			
TAG	TYPE/DESCRIPTION	LAMPING	NOTES
(A)	4'-0" FLUORESCENT, ENCLOSED INDUSTRIAL TYPE BASIS FOR DESIGN	2 LAMP T8	LAMP COLOUR 3500K
(B)	POT LIGHT, OUTDOOR	1000 LUMEN LED, 120V	LAMP COLOUR 3500K
(C)	CEILING MOUNT UTILITY LIGHT, OUTDOOR	3000 LUMEN LED, 120V	LAMP COLOUR 3500K
(D)	SOFFIT MOUNTED SECURITY LIGHT, OUTDOOR	4000 LUMEN LED, 120V	LAMP COLOUR 3500K, DIRECTED TO SOUTHEAST

- LIGHT FIXTURE NOTES:**
- PROVIDE RATED ENCLOSURE AT RECESSED FIXTURES WHERE REQUIRED BY APPLICABLE CODES.
  - PROVIDE IN RATED POT LIGHTS FOR ALL RECESSED FIXTURE UNLESS INSTALLED IN NON-INSULATED CEILING SPACE.
  - ALL RECESSED LIGHTS TO BE c/w HINGED FRAMING KITS. LAY IN LENSES ARE NOT ACCEPTED.
  - ALL EMERGENCY SIGNAGE AND LIGHTING INCLUDING WIRING AND BATTERIES TO BE INCLUDED IN BASE TENDER QUOTE.
  - ENSURE ALL FIXTURES ARE ATTACHED SUFFICIENTLY TO BUILDING STRUCTURE. T-BAR FIXTURES TO BE INSTALLED DIRECTLY TO STRUCTURE INDEPENDENT OF T-BAR FRAMING.
  - PROVIDE ELECTRONIC BALLASTS FOR ALL FLUORESCENT STRIP FIXTURES.
  - WHERE FLUORESCENT FIXTURES ARE CONTROLLED VIA MOTION SENSOR, FIXTURE TO BE WITH RAPID START BALLAST.
  - CONTRACTOR TO BE RESPONSIBLE FOR LIGHT FIXTURES INCLUDING BUT NOT LIMITED TO RECEIPT OF FIXTURES, STORAGE, ASSEMBLY, INSTALLATION, CONNECTION AND DAMAGES.
  - TYPICALLY CONTRACTOR TO SUPPLY AND INSTALL ALL LINEAR FLUORESCENT FIXTURES AND ALL OTHER FIXTURES TO BE SUPPLIED BY CLIENT. OTHERWISE CASH ALLOWANCE FOR ALL LIGHT FIXTURES TO BE CONFIRMED BY CLIENT PRIOR TO CLOSE OF TENDER.
  - ALL FLUORESCENT FIXTURES SHOULD BE COMPLETE WITH HIGH FACTOR BALLASTS.

Revision/Revision	Description/Description	Date/Date
2	ISSUED FOR TENDER	04/10/17
1	ISSUED FOR TENDER	02/22/17

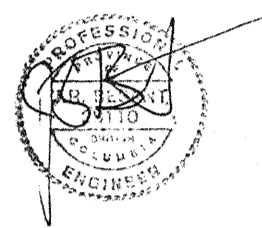
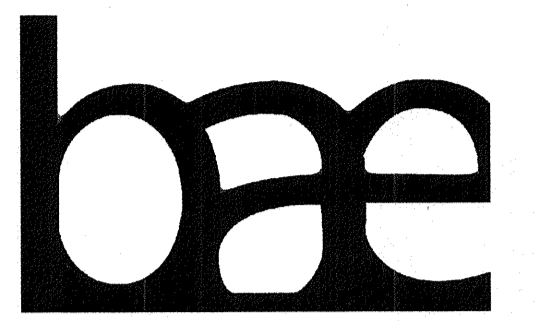
Client/Client  
**PARKS CANADA WESTERN REGION**  
STEVESTON, B.C. NATIONAL HISTORIC SITE

Project title/Titre du projet  
**GULF OF GEORGIA CANNERY ADMINISTRATION BUILDING**  
12138 FOURTH AVE, RICHMOND, BC

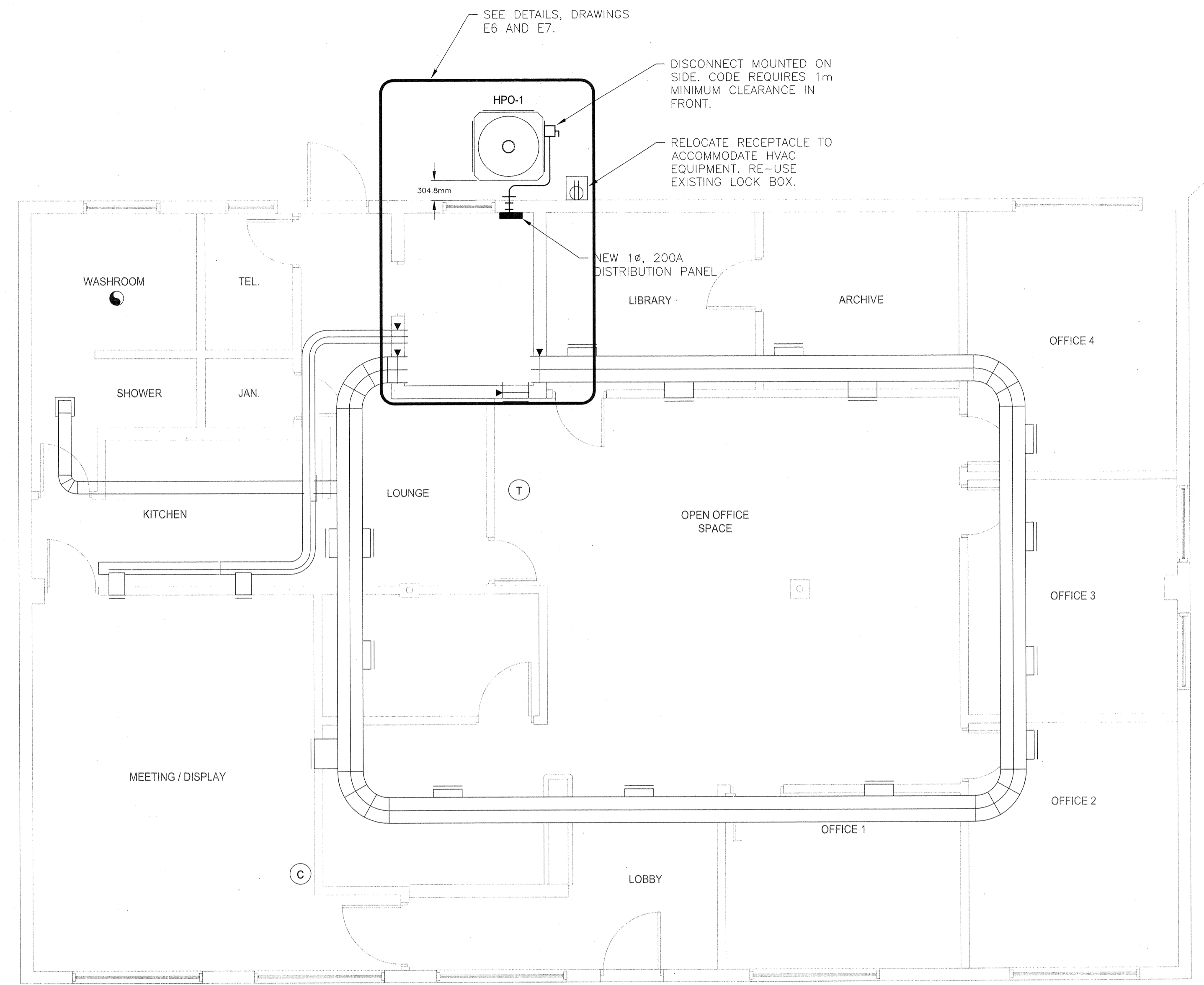
Consultant Signature Only  
**J.R. BESANT**  
Designed by/Concept par  
**J.R. BESANT**  
Drawn by/Dessiné par  
**C. INNES**  
PWGSC Project Manager/Administrateur de Projets TPSGC  
**T. DUNPHY**  
Regional Manager, Architectural and Engineering Services  
Gestionnaire régional, Services d'architecture et de génie, TPSGC  
**PREETIPAL PAUL**

Drawing title/Titre du dessin  
**ELECTRICAL LIGHTING PLAN**

Project No./No. du projet	Sheet/Feuille	Revision no./Lo Révision no.
<b>R.060702.001</b>	<b>E4</b> OF 12	<b>2</b>

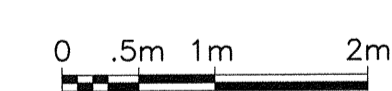


10 April 2017



EXISTING WOODEN POLE

ELECTRICAL PLAN  
1:50



Revision/Revision	Description/Description	Date/Date
2	ISSUED FOR TENDER	04/10/17
1	ISSUED FOR TENDER	02/22/17

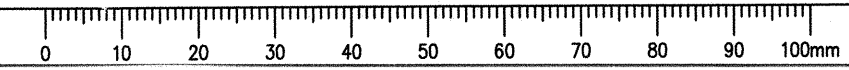
Client/client  
**PARKS CANADA WESTERN REGION**  
STEVESTON, B.C. NATIONAL HISTORIC SITE

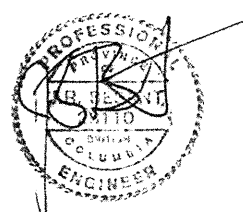
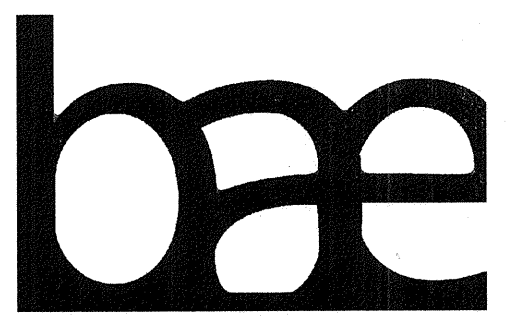
Project title/Titre du projet  
**GULF OF GEORGIA CANNERY ADMINISTRATION BUILDING**  
12138 FOURTH AVE, RICHMOND, BC

Consultant Signature Only  
**J.R. BESANT**  
Designed by/Concept par  
**J.R. BESANT**  
Drawn by/Dessiné par  
**C. INNES**  
PWGSC Project Manager/Administrateur de Projets TPSGC  
**T. DUNPHY**  
Regional Manager, Architectural and Engineering Services  
Gestionnaire régional, Services d'architecture et de génie, TPSGC  
**PREETIPAL PAUL**

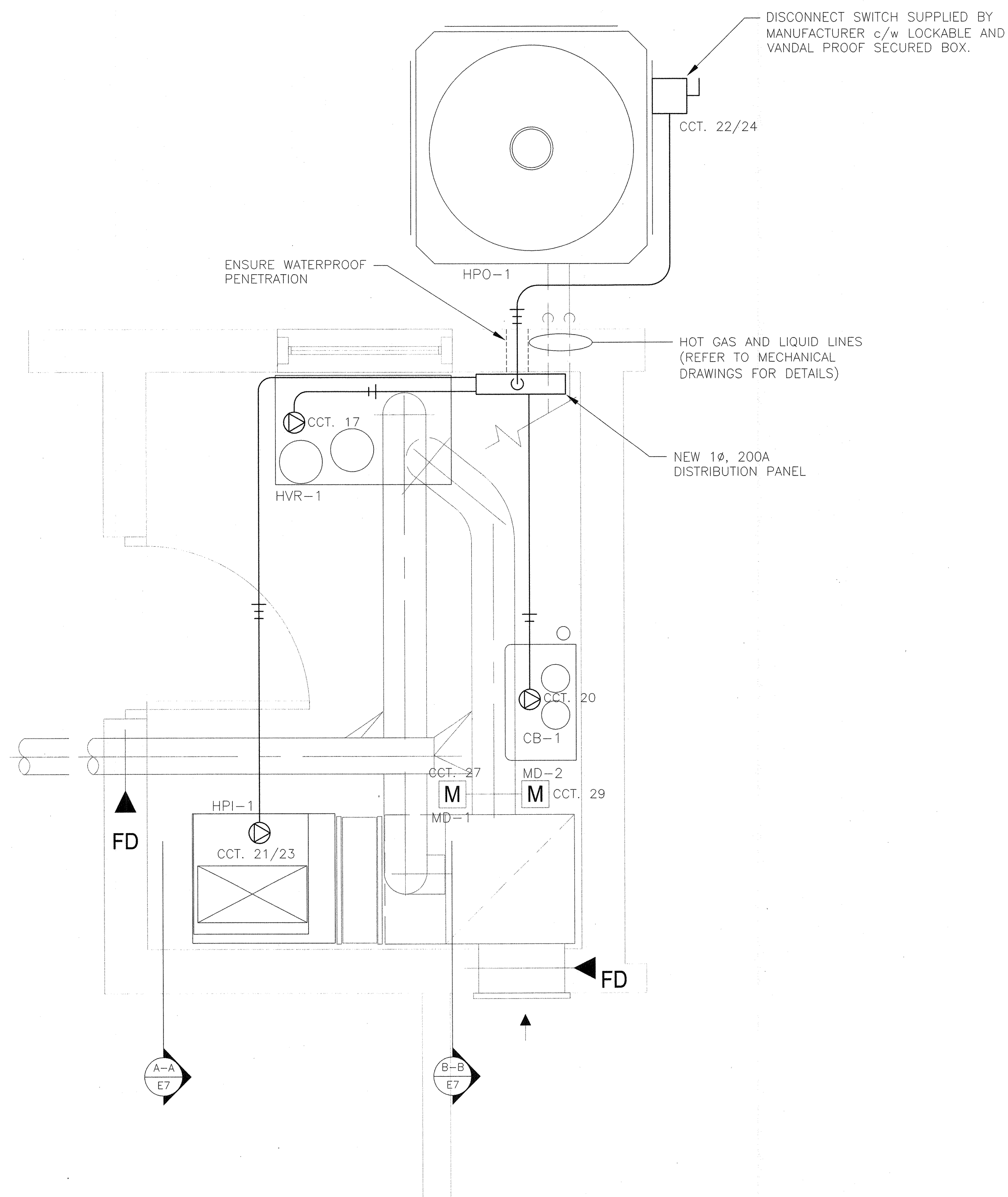
Drawing title/Titre du dessin  
**ELECTRICAL PLAN**

Project No./No. du projet <b>R.060702.001</b>	Sheet/Feuille <b>E5</b> OF 12	Revision no./Lo Révision no. <b>2</b>
--	-------------------------------------	--





10 April 2017



MECHANICAL ROOM PLAN AT RETURN PLENUM  
1:16

Revision/Revision	Description/Description	Date/Date
2	ISSUED FOR TENDER	04/10/17
1	ISSUED FOR TENDER	02/22/17

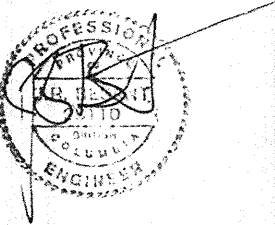
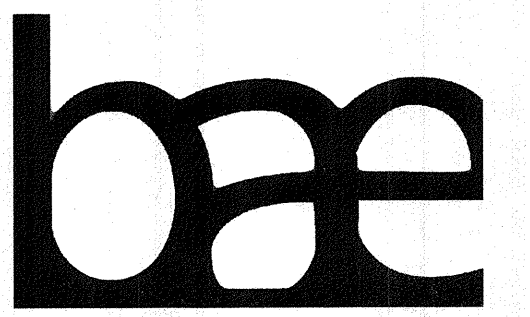
Client/client  
**PARKS CANADA  
WESTERN REGION  
STEVESTON, B.C. NATIONAL HISTORIC SITE**

Project title/Titre du projet  
**GULF OF GEORGIA  
CANNERY  
ADMINISTRATION  
BUILDING  
12138 FOURTH AVE,  
RICHMOND, BC**

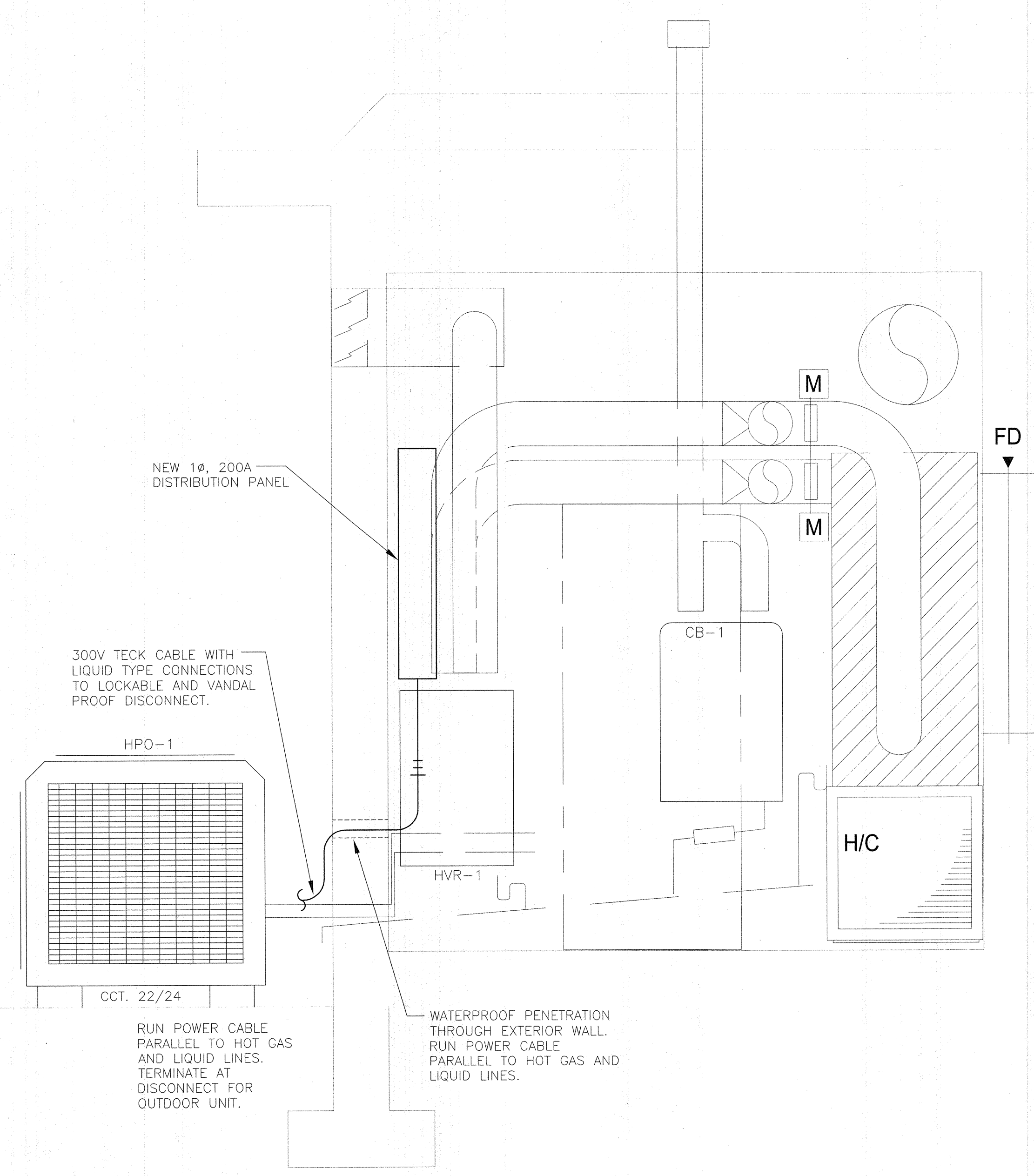
Consultant Signature Only  
**J.R. BESANT**  
Designed by/Concept par  
**J.R. BESANT**  
Drawn by/Dessiné par  
**C. INNES**  
PWGSC Project Manager/Administrateur de Projets TPSGC  
**T. DUNPHY**  
Regional Manager, Architectural and Engineering Services  
Gestionnaire régional, Services d'architecture et de génie, TPSGC  
**PREETIPAL PAUL**

Drawing title/Titre du dessin  
**ELECTRICAL  
MECHANICAL ROOM**

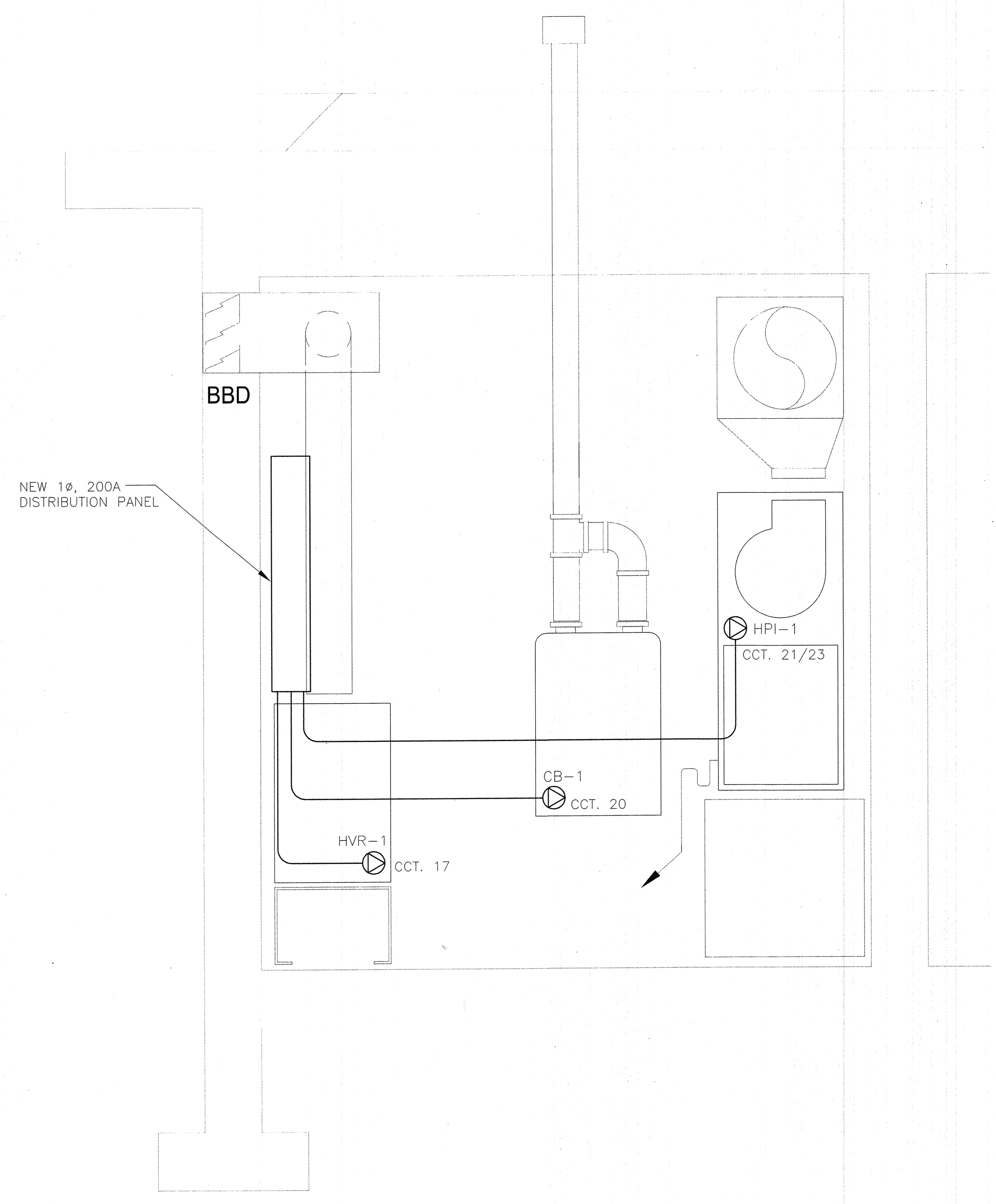
Project No./No. du projet	Sheet/Feuille	Revision no./Le Révision no.
<b>R.060702.001</b>	<b>E6 OF 12</b>	<b>2</b>



10 April 2017



A-A MECHANICAL ROOM SECTION  
1:8



A-A MECHANICAL ROOM SECTION  
1:8

Revision/Revision	Description/Description	Date/Date
2	ISSUED FOR TENDER	02/22/17
1	ISSUED FOR TENDER	02/22/17

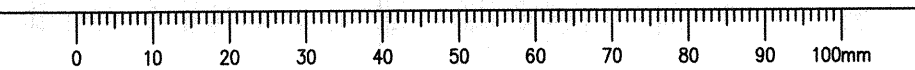
Client/client  
**PARKS CANADA WESTERN REGION**  
STEVESTON, B.C. NATIONAL HISTORIC SITE

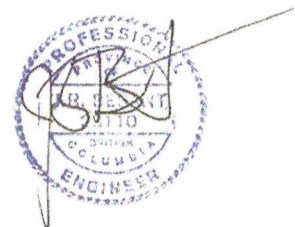
Project title/Titre du projet  
**GULF OF GEORGIA CANNERY ADMINISTRATION BUILDING**  
12138 FOURTH AVE, RICHMOND, BC

Consultant Signature Only  
**J.R. BESANT**  
Designed by/Concept par  
**J.R. BESANT**  
Drawn by/Dessiné par  
**C. INNES**  
PWGSC Project Manager/Administrateur de Projets TPSGC  
**T. DUNPHY**  
Regional Manager, Architectural and Engineering Services  
Gestionnaire régionale, Services d'architecture et de génie, TPSGC  
**PREETIPAL PAUL**

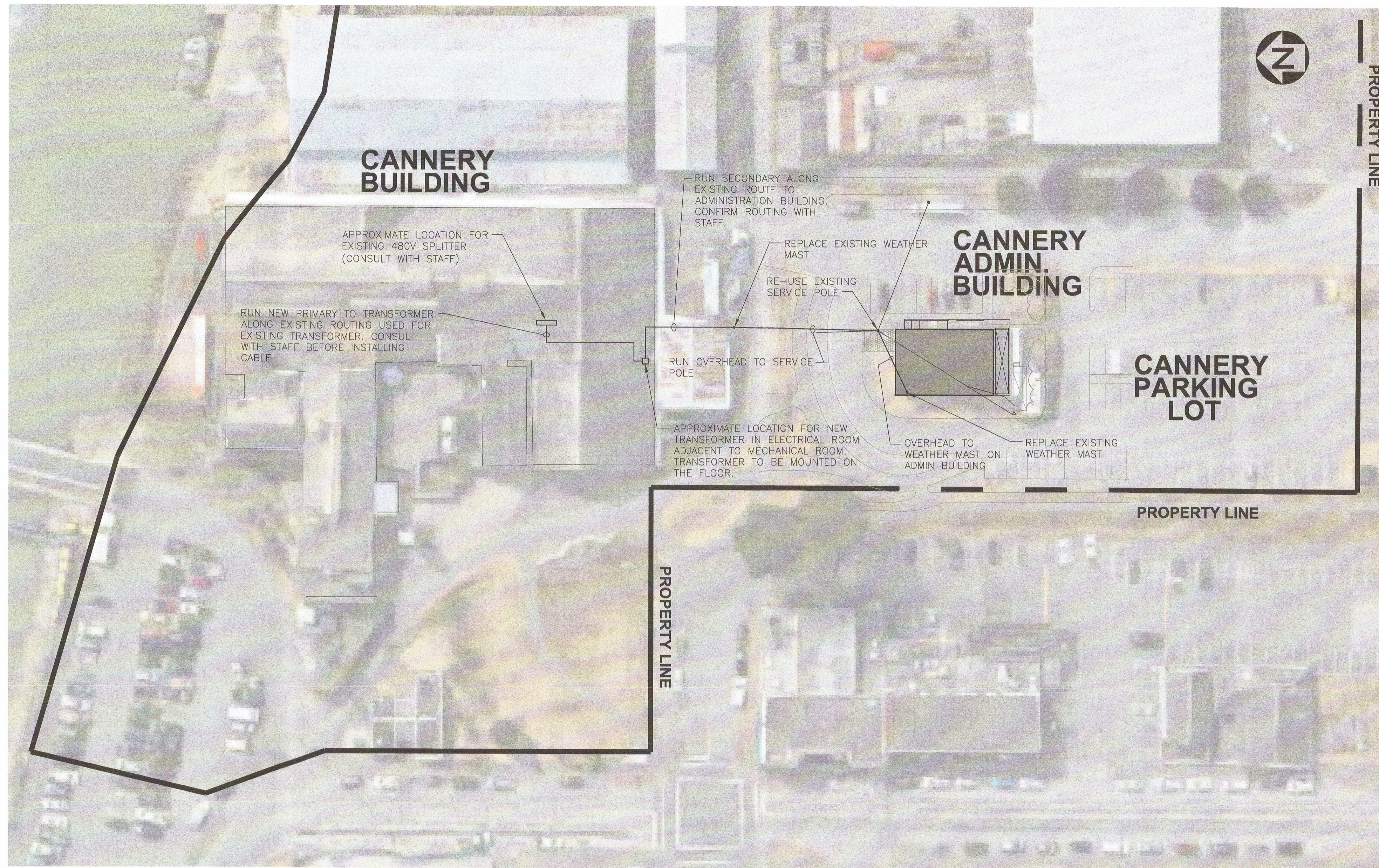
Drawing title/Titre du dessin  
**MECHANICAL ROOM SECTIONS**

Project No./No. du projet <b>R.060702.001</b>	Sheet/Feuille <b>E7</b> OF 12	Revision no./La Révision no. <b>2</b>
--	-------------------------------------	--

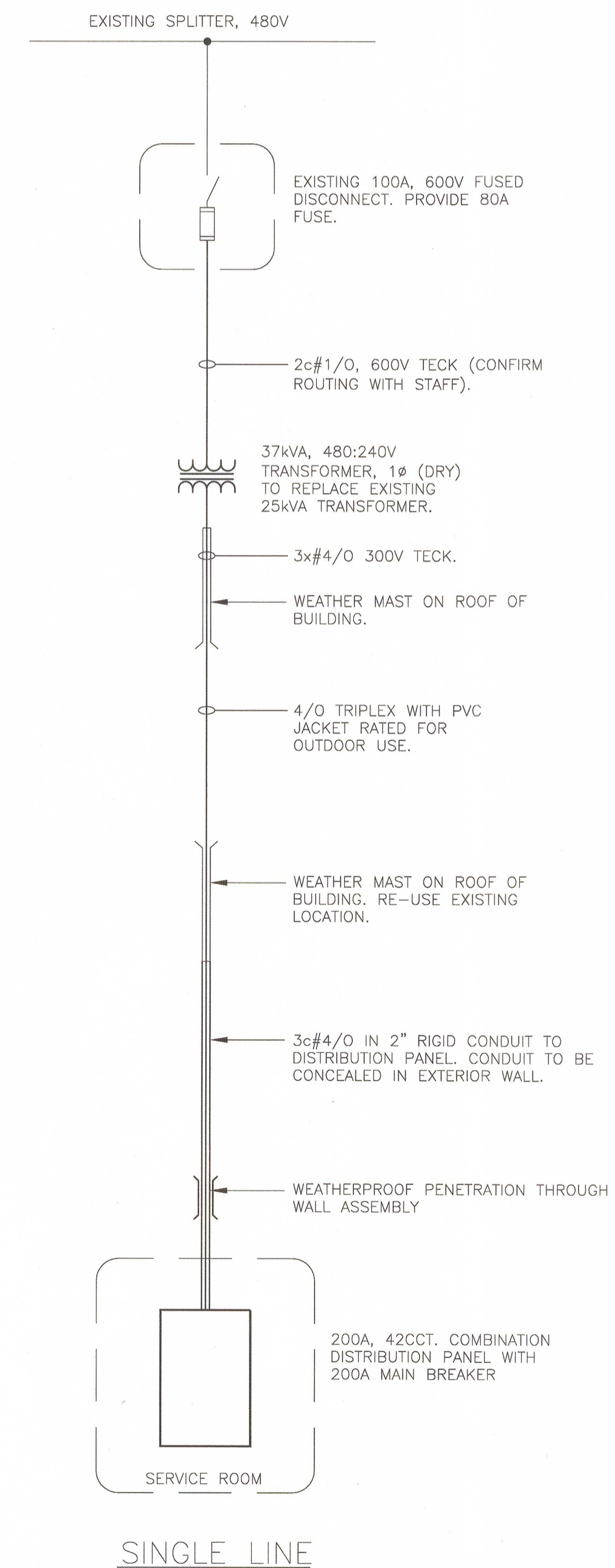




10 April 2017



POWER ROUTING FOR ADMINISTRATION BUILDING  
1:500



SINGLE LINE

Revision/	Description/Description	Date/Date
2	ISSUED FOR TENDER	04/10/17
1	ISSUED FOR TENDER	02/22/17

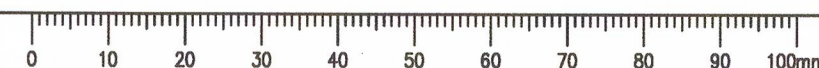
Client/client  
**PARKS CANADA  
WESTERN REGION  
STEVESTON, B.C. NATIONAL HISTORIC  
SITE**

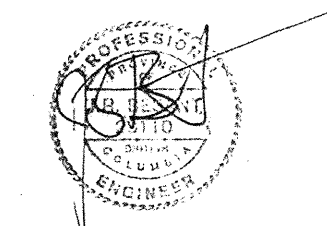
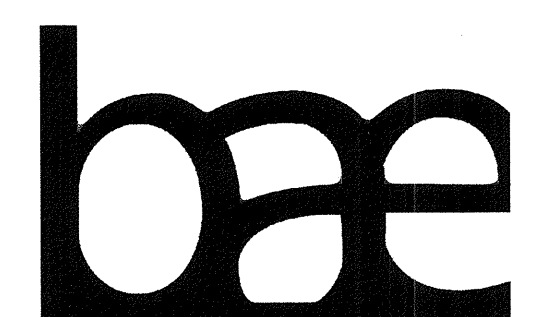
Project title/Titre du projet  
**GULF OF GEORGIA  
CANNERY  
ADMINISTRATION  
BUILDING  
12138 FOURTH AVE,  
RICHMOND, BC**

Consultant Signature Only  
**J.R. BESANT**  
Designed by/Concept par  
**J.R. BESANT**  
Drawn by/Dessiné par  
**C. INNES**  
PWGSC Project Manager/Administrateur de Projets TPSGC  
**T. DUNPHY**  
Regional Manager, Architectural and Engineering Services  
Destinataire régionale, Services d'architecture et de génie, TPSGC  
**PREETIPAL PAUL**

Drawing title/Titre du dessin  
**ELECTRICAL  
POWER ROUTING  
MUSEUM TO ADMINISTRATION  
BUILDING**

Project No./No. du projet	Sheet/ Feuille	Revision no./ La Révision no.
<b>R.060702.001</b>	<b>E8</b> OF 12	<b>2</b>





10 April 2017

2	ISSUED FOR TENDER	04/10/17
1	ISSUED FOR TENDER	02/22/17

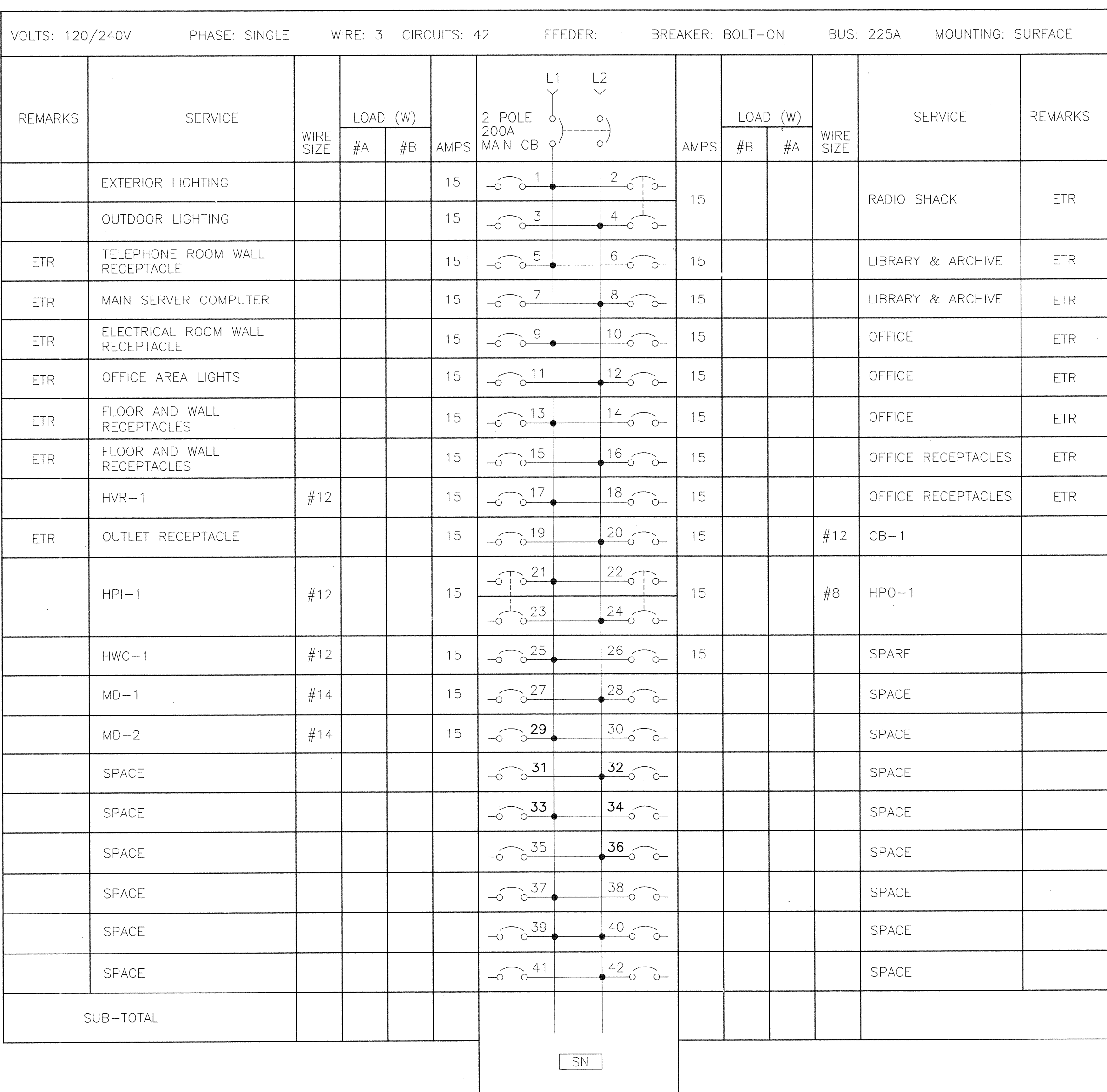
Client/client  
**PARKS CANADA WESTERN REGION**  
 STEVESTON, B.C. NATIONAL HISTORIC SITE

Project title/Titre du projet  
**GULF OF GEORGIA CANNERY ADMINISTRATION BUILDING**  
 12138 FOURTH AVE, RICHMOND, BC

Consultant Signature Only  
**J.R. BESANT**  
 Designed by/Concept par  
**J.R. BESANT**  
 Drawn by/Dessins par  
**C. INNES**  
 PWGSC Project Manager/Administrateur de Projets TPSGC  
**T. DUNPHY**  
 Regional Manager, Architectural and Engineering Services  
 Gestionnaire régional, Services d'architecture et de génie, TPSGC  
**PREETIPAL PAUL**

Drawing title/Titre du dessin  
**PANEL SCHEDULES, LIGHTING SCHEDULES AND LEGENDS**

Project No./No. du projet <b>R.060702.001</b>	Sheet/Feuille <b>E9</b> OF 12	Revision no./Révision no. <b>2</b>
--	-------------------------------------	---------------------------------------



POWER DISTRIBUTION PANEL - P1

ELECTRICAL LEGEND



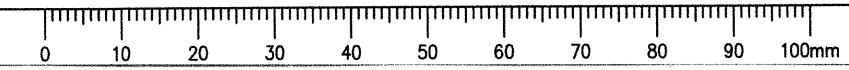
GENERAL NOTES

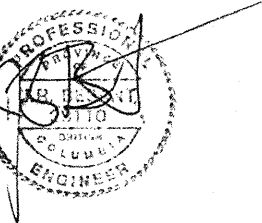
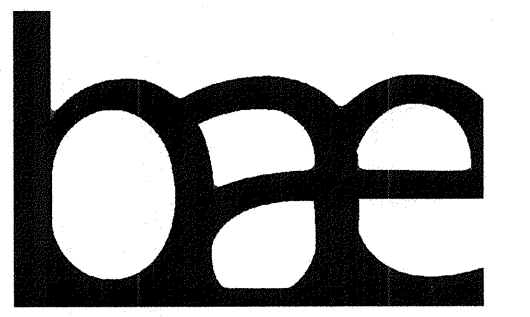
- A. PROVIDE CIRCUITS SIZED AT 2#14, 1#14, OR BX 20 (3/4) C UNLESS OTHERWISE NOTED ON THE DRAWINGS OR IN THE SPECIFICATIONS.
- B. PERMANENTLY LABEL ALL MOTORS, POWER DISCONNECTS, AND REMOTE LOADS WITH THE PANEL AND CIRCUIT NUMBER SERVING THE DEVICE.
- C. UNLESS OTHERWISE NOTED, ALL CONDUCTORS ARE TYPE RW90, RATED FOR 90° C.
- D. PROVIDE A FUSED DISCONNECT SWITCH FOR HVAC AND OTHER EQUIPMENT WHERE REQUIRED BY MANUFACTURER AND NOT INCLUDED IN SUPPLY PACKAGE.
- E. REFER TO ARCHITECTURAL, STRUCTURAL, PROCESS AND MECHANICAL DRAWINGS FOR ADDITIONAL DETAILS AND SYSTEMS COORDINATION.
- F. BRANCH CIRCUIT NOT ALWAYS SHOWN ON DRAWINGS BUT IS IMPLIED BY THE PANEL CIRCUIT NUMBER.
- G. THIS IS A GENERAL LEGEND SHEET. SOME SYMBOLS AND ABBREVIATIONS MAY NOT BE UTILIZED ON THIS SPECIFIC PROJECT.
- H. REFER TO MECHANICAL DRAWINGS.

MECHANICAL EQUIPMENT LIST

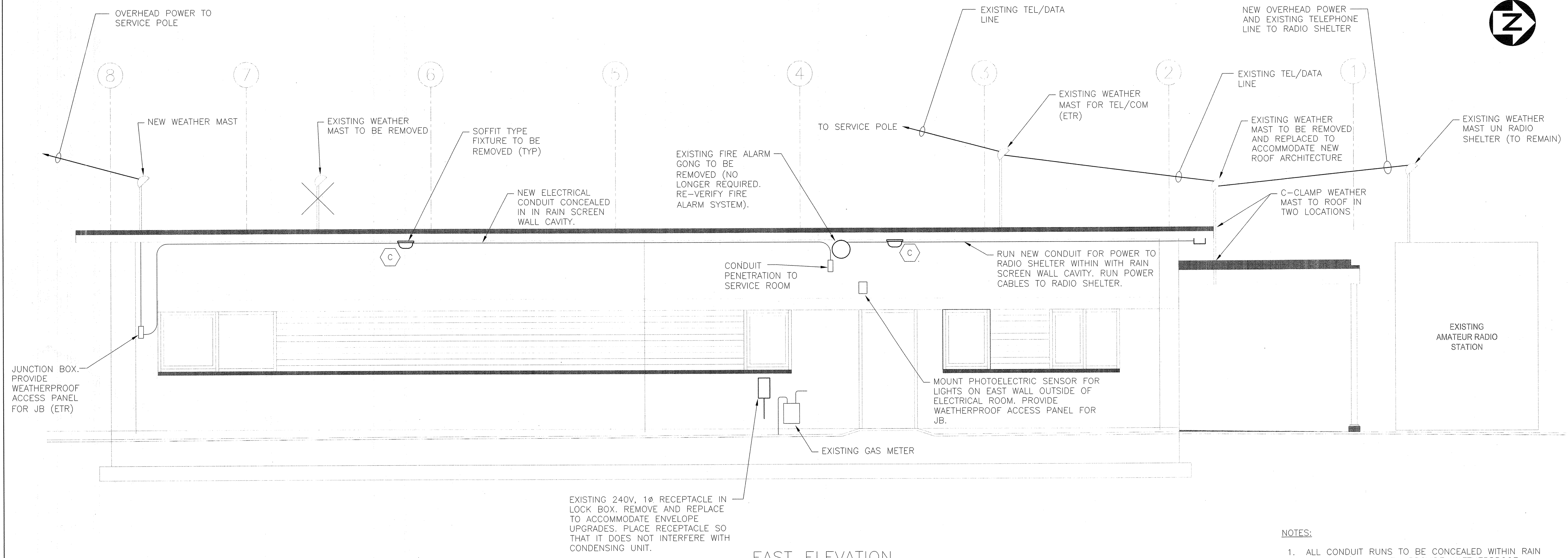
TAG	DESCRIPTION	ELECTRICAL				
		V.P.C.	MIN. CIRCUIT AMPS	FAN MOTOR kW (HP)	CIRCUIT No.	WIRE SIZE
HPI-1	HEAT PUMP INDOOR SECTION	240-1-60	9.0	0.6 (3/4)	21/23	#12
HPO-1	HEAT PUMP OUTDOOR SECTION	240-1-60	29.2	-	22/24	#8
HRV-1	AIR TO AIR HEAT RECOVERY UNIT	120-1-60	6	2 @ 0.2 (2@1/4)	17	#12
CB-1	COMBI HTG AND DOM WATER BOILER	120-1-60	-	-	20	#12
MD-1	MOTORIZED DAMPER	120-1-60	-	-	-	#14
MD-1	MOTORIZED DAMPER	120-1-60	-	-	-	#14

(1) TOTAL COOLING CAPACITY @ 29°C. DB/19°C. WB (85°F. DB/67°F WB)





10 April 2017



EAST ELEVATION  
1:40

- NOTES:**
1. ALL CONDUIT RUNS TO BE CONCEALED WITHIN RAIN SCREEN WALL CAVITY. PROVIDE WAETHERPROOF ACCESS PANEL WHERE JUNCTION BOXES ARE LOCATED FOR ACCESS.
  2. REFER TO RDH DRAWINGS FOR DETAILS ON WEATHERPROOF ACCESS PANELS AND SUPPORTS FOR WEATHERMAST.

2	ISSUED FOR TENDER	04/10/17
1	ISSUED FOR TENDER	02/22/17
Revision/	Description/Description	Date/Date
Client/client		

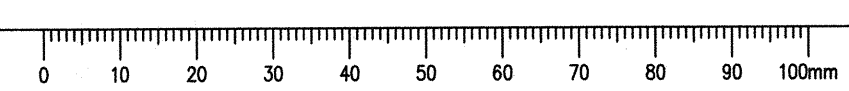
**PARKS CANADA  
WESTERN REGION  
STEVESTON, B.C. NATIONAL HISTORIC  
SITE**

Project title/Titre du projet  
**GULF OF GEORGIA  
CANNERY  
ADMINISTRATION  
BUILDING  
12138 FOURTH AVE,  
RICHMOND, BC**

Consultant Signature Only  
**J.R. BESANT**  
Designed by/Concept par  
**J.R. BESANT**  
Drawn by/Dessiné par  
**C. INNES**  
PWSC Project Manager/Administrateur de Projets TPSGC  
**T. DUNPHY**  
Regional Manager, Architectural and Engineering Services  
Gestionnaire régionale, Services d'architectural et de génie, TPSGC  
**PREETIPAL PAUL**

Drawing title/Titre du dessin  
**ELECTRICAL  
BUILDING SECTION  
EAST ELEVATION**

Project No./No. du projet <b>R.060702.001</b>	Sheet/Feuille <b>E10</b> OF 12	Revision no./ La Révision no. <b>2</b>
--	--------------------------------------	--



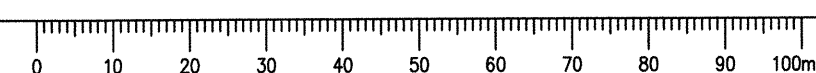


ELECTRICAL NOTES:

- 16.18.12 PROVIDE PERMANENT LAMICOID LABELS ON FUSED SWITCHES THAT INCORPORATE A REDUCED FUSE RATING INDICATING THE MAXIMUM FUSE PERMITTED IN THAT SWITCH.
- 16.18.13 SUITE PANELBOARD/LOADCENTRES SHALL BE c/w MAIN BREAKER.
- 16.18.14 SUITE PANELBOARDS/LOADCENTRES SHALL BE INSTALLED AS HIGH AS POSSIBLE WITH NO OVERCURRENT DEVICE OPERATING HANDLE BEING MORE THAN 1.7m ABOVE THE FINISHED FLOOR LEVEL.
- 16.18.15 THE CONTRACTOR SHALL PROVIDE A MINIMUM OF 20% SPARE CAPACITY FOR ALL COMMON AREA PANELBOARD.
- 16.18.16 URGENT ATTENTION FOR SERIES RATED COMBINATION CRITERIA: OVER CURRENT DEVICES SHALL MEET THE SERIES RATED COMBINATION CRITERIA PER CEC RULE 14-014 & SHALL BE FULLY RATED OR USING SERIES RATED COMBINATIONS/INTERGRATED EQUIPMENT RATED (IER).
- 16.18.17 LOW VOLTAGE TRANSFORMERS: SHALL BE BOTTOM OR SIDE ENTRY ONLY.
- 16.18.18 SERVICE AND DISTRIBUTION: ENSURE THERE IS ADEQUATE CLEARANCE TO ESCAPE AROUND EQUIPMENT WITH EQUIPMENT DOOR FULLY OPEN. ALSO ENSURE THERE IS PROVISION FOR REMOVAL AND READY REPLACEMENT OF THE EQUIPMENT.
- 16.18.19 ALL PANELBOARDS AND SUITE LOAD CENTRE LOCATIONS MUST BE CONFIRMED WITH ELECTRICAL INSPECTOR BEFORE ROUGH-IN.
- 16.19. MOTORS AND MECHANICAL EQUIPMENT
- 16.19.1 PROVIDE COMPLETE WIRING FOR MOTORS AND EQUIPMENT AS SHOWN ON THE CONTRACT DOCUMENTS.
- 16.19.2 EQUIPMENT WILL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS AND SHALL MEET THE REQUIREMENTS OF ALL NECESSARY CODES AND REGULATIONS.
- 16.19.3 FOR EXACT LOCATIONS AND REQUIREMENTS OF MOTORS AND EQUIPMENT SEE SUB CONSULTANTS DRAWINGS (i.e. MECHANICAL, SPRINKLER, KITCHEN SUPPLIER ETC.)
- 16.19.4 MOTORS WILL BE SUPPLIED AND INSTALLED BY OTHERS UNLESS OTHERWISE INDICATED.
- 16.19.5 EACH MOTOR SHALL BE ADEQUATELY BONDED.
- 16.19.6 CONNECTIONS TO MOTORS SHALL BE MADE WITH SOLDERLESS CONNECTORS WHICH CAN BE REMOVED TO ALLOW SERVICING OF MOTORS.
- 16.19.7 MOTORS SHALL BE CHECKED FOR PERFORMANCE, ROTATION, DIRECTION, VIBRATION, SOUND, NO-LOAD CURRENT AND THE CURRENT ON EACH PHASE SHALL BE COMPARED WITH THE NAMEPLATE CURRENT. THE MECHANICAL CONTRACTOR SHALL DISCONNECT ANY DRIVE COMPONENTS AS REQUIRED TO FACILITATE THESE TESTS.
- 16.19.8 CONFIRM THE SIZE OF OVERLOAD HEATERS IN EACH STARTER TO BE APPROPRIATE TO PROTECT THE CONTROLLED MOTOR.
- 16.19.9 SUPPLY AND INSTALL MOTOR STARTERS, AND/OR SOLID BLADE DISCONNECT SWITCHES AS REQUIRED BY CODE.
- 16.19.10 PROVIDE WEATHERPROOF ENCLOSURE FOR STARTERS AND SWITCHES EXPOSED TO OUTDOOR CONDITIONS. DISCONNECT SWITCH SHALL BE INDUSTRIAL GRADE (H.P. RATED) AS REQUIRED BY CODE.
- 16.19.11 SUPPLY AND INSTALL ALL THE CONTROL DEVICES AS INDICATED ON THE DRAWINGS.
- 16.19.12 PROVIDE ALL CONDUITS REQUIRED BY MECHANICAL CONTRACTOR, FOR LOW VOLTAGE CONTROL WIRING OF H.V.A.C. EQUIPMENT.
- 16.19.13 CHECK WITH MECHANICAL CONTRACTOR REGARDING INTERLOCKING REQUIREMENTS. LINE VOLTAGE INTERLOCKING IS RESPONSIBILITY OF ELECTRICAL CONTRACTOR.
- 16.19.14 IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RECOGNIZE THAT THE MATERIAL COVERED UNDER THE MECHANICAL SECTION IS SUBJECT TO CHANGE AS A RESULT OF SUBSTITUTION. THE CONTRACTOR SHALL MAKE WHATEVER MODIFICATION NECESSARY e.g. FEEDER SIZE, O/C PROTECTION INTERLOCKING, ETC. TO ENSURE A COMPLETE INSTALLATION.
- 16.19.15 A MANUALLY OPERATED ACROSS THE Q LINE TYPE OF MOTOR STARTER MARKED "SUITABLE FOR MOTOR DISCONNECT" SHALL BE PERMITTED TO SERVE AS BOTH STARTER AND DISCONNECT IF COMPLIES WITH CEC RULE 28-602-3-B
- 16.20. LIGHTING AND LIGHTING CONTROL:
- 16.20.1 A) UNLESS OTHERWISE ARRANGED WITH THE OWNER OR NOTED ELSEWHERE IN THE SPECIFICATION/DRAWINGS, LIGHTING FIXTURES SHALL BE SUPPLIED BY THE OWNER OR HIS REPRESENTATIVE BUT INSTALLED (i.e. INSTALLATION AND WIRING) UNDER THIS CONTRACT.
- B) THE ELECTRICAL CONTRACTOR SHALL ALSO INCLUDE IN HIS QUOTE FOR ADMINISTRATION OF FIXTURE PURCHASE, i.e. ENSURING LIGHTING FIXTURE(S) SELECTED MEET ALL ENERGY BY-LAW AND LOCAL AUTHORITY REQUIREMENTS, ETC..
- C) ADEQUATE ILLUMINATION MUST BE PROVIDED IN ALL AREAS. LIGHTING TO CONFORM TO THE MOST STRINGENT REQUIREMENTS OF ASHRAE 90.1, B.C. BUILDING CODE AND ALL OTHER APPLICABLE FEDERAL, PROVINCIAL AND MUNICIPAL LAWS AND REGULATIONS.
- D) THE LIGHT METHODS CHOSEN MUST CONFORM TO THE RECOMMENDATIONS AND PERFORMANCE CRITERIA SET OUT IN B.C. HYDRO POWER SMART PROGRAM SPECIFICATIONS, IF APPLICABLE.
- 16.20.2 INSTALLATION OF LIGHTING FIXTURE/EQUIPMENT INCLUDING: VOLTAGE; O/C PROTECTION; LOCATION; SUPPORTS; MINIMUM HEIGHT OF LOW LUMINAIRES; LUMINAIRES IN RESIDENTIAL OCCUPANCY ETC. SHALL BE PER CEC CODE SECTION 12, BUILDING CODE AND ALL AUTHORITIES HAVING JURISDICTION.

- 16.20.3 MINIMUM HEIGHT OF LOW LUMINAIRES (i.e. HEIGHT LESS THAN 2.1 METERS ABOVE THE FLOOR) SHALL COMPLY WITH CEC CODE SECTION 30-314.
- 16.20.4 ALL LAMP HOLDERS, SHALL BE SUPPLIED AND INSTALLED BY THE ELECTRICAL CONTRACTOR UNDER THIS CONTRACT.
- 16.20.5 THE ELECTRICAL CONTRACTOR SHALL ENSURE THAT FLUORESCENT FIXTURES TO BE USED IN UNHEATED AREA ARE ORDERED WITH 0 DEGREE FAHRENHEIT BALLASTS. ALL FLUORESCENT FIXTURES SHALL HAVE HPF. BALLASTS.
- 16.20.6 NOT USED.
- 16.20.7 A) RECESSED LIGHTING FIXTURES SHALL NOT BE LOCATED IN INSULATED CEILINGS UNLESS THE FIXTURES ARE DESIGNED FOR SUCH INSTALLATION.
- B) CEC RULES 30-900 TO 30-910 SHALL APPLY TO INSTALLATION OF LIGHT FIXTURES IN CAVITIES IN CEILINGS OR WALLS.
- C) THE CONTRACTOR MUST ENSURE ALL FIRE RESISTANCE RATED ASSEMBLIES (i.e. WALLS, CEILINGS, ETC.) WHICH CONTAIN RECESSED LUMINAIRES MUST BE c/w RATED BACKING TO MAINTAIN THE INTEGRITY OF THE FIRE RESISTANCE.
- 16.20.8 THE CONTRACTOR SHALL SUPPLY AND INSTALL PHOTOCELL(S) AND CONTACTOR(S) FOR THE CONTROL OF ALL OUTDOOR AND BUILDING PERIMETER LIGHTS UNLESS OTHERWISE NOTED ON THE DRAWINGS.
- 16.20.9 DESIGN/LIGHTING CRITERIA:
- a) MINIMUM LIGHTING LEVELS FOR ALL ROOMS OR SPACES FOR THE ENTIRE BUILDING(S) SHALL BE PER BUILDING CODE RULE 3.2.7.1 AND TABLE 9.34.2.7 AND ALL AUTHORITIES HAVING JURISDICTION.
- b) RECESSED LIGHTING FIXTURES PER BUILDING CODE RULE 3.2.7.2
- c) LIGHT DIFFUSER AND LENSES SHALL BE PER BUILDING CODE RULE 3.1.13.4
- 16.20.10 NOT USED.
- 16.20.11 NOT USED.
- 16.20.12 LIGHTING EFFICIENCIES AND ENERGY CONSUMPTION THE ELECTRICAL WIRING AND INSTALLATION SHALL CONFORM TO THE B.C. BUILDING CODE (ALSO REF: ASHRE/IES 90.1.).
- 16.20.13 VOLTAGE: IN A BUILDING OR PREMISES WHERE A TRAINED AND QUALIFIED ELECTRICAL MAINTENANCE PERSON IS RETAINED, THE VOLTAGE SHALL BE PERMITTED TO EXCEED 150 VOLTS TO GROUND, BUT IT SHALL NOT EXCEED THE VOLTAGE TO GROUND OF A NOMINAL SYSTEM VOLTAGE OF 347/600 V.
- 16.20.14 LUMINAIRES IN BUILDING OF RESIDENTIAL OCCUPANCY SHALL COMPLY WITH CEC SECTION 30 AND SHALL INCLUDE BUT NOT LIMITED TO ENTRANCES, DWELLING UNITS, STAIRWAYS, BASEMENTS, STORAGE ROOMS AND GARAGES AND/OR CARPORTS.
- 16.20.15 INSTALLATION, WIRING AND TYPE OF RECESSED LUMINAIRES IN CEILING AND WALLS COMPLY WITH SECTION 30-900 OF CEC.
- 16.20.16 CONTRACTOR PROPOSED ALTERNATE LIGHTING FIXTURES: ANY CONTRACTOR PROPOSED ALTERNATE LIGHTING FIXTURE IN LIEU OF SPECIFIED SHALL BE SUBJECT BY THE ENGINEER'S APPROVAL. THE CONTRACTOR TO SUBMIT A BREAKDOWN OF COST SHOWING THE NET DIFFERENCE THAT HAS TO BE DEDUCTED OR ADDED TO THE TENDER PRICE, IF ACCEPTED. THE CONTRACTOR TO INCLUDE FOR AND SHALL TAKE RESPONSIBILITY FOR ANY ADDITIONAL COST INCURRED BY OTHER DISCIPLINES AND TRADES, RESULTING FROM SUBSTITUTION AND SHALL ALSO INCLUDE FOR LIGHTING SYSTEM PERFORMANCE.
- 16.20.17 EXTRA LOW VOLTAGE LIGHTING: EXTRA LOW VOLTAGE LIGHTING SYSTEMS (<30V) MUST MEET THE REQUIREMENTS OF C.E.C. 30-1200 TO 30-1208.
- 16.21. NOT USED.
- 16.22. GROUNDING AND BONDING
- 16.22.1 PROVIDE A COMPLETE AND ADEQUATE GROUNDING AND BONDING SYSTEM AS REQUIRED BY THE LATEST CODES/BULLETINS, AS SHOWN ON THE DRAWINGS AND PER THE REQUIREMENTS OF ALL AUTHORITIES HAVING THE JURISDICTION. (GUIDELINES: CEC SECTION 10/BULLETIN 2003-002 EL).
- 16.22.2 ALL NON-CURRENT CARRYING METAL PARTS SHALL BE INTERCONNECTED AND GROUNDED AND/OR BONDED AS PER CODE.
- 16.22.3 MATERIAL FOR BONDING CONDUCTORS FOR EQUIPMENT, METAL RACEWAY AND CONDUCTOR ENCLOSURES SHALL BE PER SEC 10-804 OF CEC.
- 16.22.4 SEPERATE GREEN GROUND WIRE (PER CODE) MUST BE INSTALLED IN ALL NON-METALLIC CONDUITS.
- 16.22.5 GROUNDING ELECTRODE: THE ELECTRICAL CONTRACTOR SHALL PROVIDE MINIMUM (3) 10FT. GROUND RODS, SPACED 10FT. APART MINIMUM; TO BE USED AS GROUNDING ELECTRODE.
- 16.22.6 GROUNDING CONDUCTORS SHALL BE FREE FROM JOINTS AND CONNECTIONS SHALL BE SOLDERLESS PRESSURE CONNECTORS.
- 16.22.7 METALLIC WATER SYSTEM, WASTE WATER SYSTEMS AND METALLIC GAS PIPING SYSTEMS USED IN CONNECTION WITH THESE PREMISES SHALL BE BONDED TO THE SYSTEM GROUND AS PER CODE.
- 16.22.8 PROVIDE 1" PVC CONDUIT c/w GROUND WIRE FROM TELEPHONE TERMINAL BOARD TO MAIN METAL WATER SHUT-OFF OR ACCEPTED GROUND GRID FOR TELEPHONE SYSTEMS GROUND/BOND.
- 16.22.9 PROVIDE 1" PVC CONDUIT c/w GROUND WIRE FROM CATV TERMINAL BOARD TO MAIN METAL WATER SHUT-OFF OR ACCEPTED GROUND GRID FOR CATV SYSTEMS GROUND/BOND.
- 16.22.10 TEL/CATV SHALL BE GROUNDED/BONDED PER THE REQUIREMENTS OF ALL AUTHORITIES.

- 16.22.11 BONDING:
- a) METALLIC WATER SUPPLY SYSTEM, METALLIC WASTE SYSTEM AND GAS PIPING IN INDIVIDUAL TOWNHOUSE UNITS SHALL BE BONDED TO THE SYSTEM GROUNDING CONDUCTOR BY MEANS OF COPPER BONDING CONDUCTOR NOT SMALLER THAN #6AWG. OR GROUNDED TO TWO (2) SUPPLEMENTARY 10 FOOT GROUND RODS.
- b) GROUNDING AND BONDING OF INDIVIDUAL TOWNHOUSE UNITS SHALL BE PER CANADIAN ELECTRICAL CODE, SECTION 10 LATEST BULLETINS AND ALL AUTHORITIES HAVING THE JURISDICTION.
- 16.22.12 GROUND HYDRO PULL BOXES PER CODE REQUIREMENTS (i.e. TABLE 17).
- 16.23. UTILITIES REQUIREMENTS:
- 16.23.1 ALL WORK MUST SATISFY THE REQUIREMENTS OF THE POWER, TELEPHONE AND CABLEVISION COMPANIES, AND THE AUTHORITIES HAVING JURISDICTION.
- 16.23.2 CONFIRM ROUTING OF TELEPHONE AND POWER SERVICE WITH SUPPLY AUTHORITIES USING JOINT TRENCH WHERE POSSIBLE. GENERAL CONTRACTOR IS RESPONSIBLE FOR TRENCHING, BACKFILLING, AND ALL CONCRETE WORK. ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR SUPPLYING AND INSTALLING ALL DUCTS c/w NYLON PULLING CORD.
- 16.23.3 THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE TO CO-ORDINATE ALL UTILITY WORK/REQUIREMENTS WITH THE GENERAL CONTRACTOR, UTILITIES COMPANY AND MECHANICAL/CIVIL/LANDSCAPE CONTRACTOR AND ALL AUTHORITIES HAVING JURISDICTION.
- 16.23.4 a) PROVIDE TERMINATION FOR INCOMING POWER, TELEPHONE AND CATV DUCTS AND CABLES.
- b) OBTAIN SERVICE CONNECTION POINT AND LOCATION OF ALL DUCTS WITH SUPPLY AUTHORITIES BEFORE INSTALLATION.
- c) THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONFIRMING THE LOCATION OF UNDERGROUND UTILITIES BEFORE EXCAVATING.
- 16.23.5 NOT USED
- 16.23.6 NOT USED
- 16.23.7 NOT USED
- 16.23.8 ELECTRICAL EQUIPMENT/METERS NEAR COMBUSTIBLE GAS METERS AND OTHER DEVICES
- i) REFER TO CODE SECTION 2-322
- ii) INDOOR INSTALLATION - ARC PRODUCING ELECTRICAL EQUIPMENT SHALL NOT BE INSTALLED WITHIN 900mm OF EQUIPMENT USED TO MEASURE COMBUSTIBLE GASES.
- iii) OUTDOOR INSTALLATION - ARC PRODUCING ELECTRICAL EQUIPMENT SHALL NOT BE INSTALLED WITHIN 1m OF A COMBUSTIBLE GAS METER/GAS RELIEF DEVICE OR VENT.
- 16.1. POWER, TELEPHONE AND CABLEVISION INCOMING SERVICES
- 16.24.1 CONFIRM AND PROVE LOCATIONS OF OTHER UTILITIES BEFORE CONSTRUCTION.
- 16.24.2 SERVICE DUCTS SHALL BE RIGID STEEL, WHERE EXPOSED INSIDE THE BUILDING.
- 16.24.3 ALL UNDERGROUND DUCTS SHALL BE HEAVY WALLED RIGID PVC AND ENCASED IN CONCRETE THROUGHOUT UNLESS OTHERWISE NOTED. PROVIDE IDENTIFICATION MARKER PER CODE AND UTILITIES REQUIREMENTS.
- 16.24.4 THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR SUPPLY AND INSTALLATION OF ALL PRECAST PULL-BOXES, JUNCTION BOXES, AND DUCTS. SEPERATE DUCT SYSTEM SHALL BE PROVIDED FOR POWER, TELEPHONE AND CABLEVISION.
- 16.24.5 POWER COMPANY WILL SUPPLY AND INSTALL TRANSFORMER KIOSK AND SECONDARY WIRING TO THE LINE SIDE OF MAIN SWITCH.
- 16.24.6 TELEPHONE CABLES SHALL BE SUPPLIED AND INSTALLED BY THE TELEPHONE COMPANY TO THE DEMARCATION DEVICE AT THE MAIN TELEPHONE TERMINAL BOARD. ELECTRICAL CONTRACTOR RESPONSIBLE TO COORDINATE ALL TELEPHONE WORK AND SHALL PROVIDE SEPERATE DUCT SYSTEM AS NECESSARY FOR TELEPHONE CABLES.
- 16.24.7 CATV CABLES SHALL BE SUPPLIED AND INSTALLED BY THE CATV COMPANY TO THE DEMARCATION DEVICE AT THE MAIN CATV TERMINAL BOARD. ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE ALL CATV WORK AND SHALL PROVIDE SEPERATE DUCT SYSTEM AS NECESSARY FOR CATV CABLES.
- 16.24.8 ELECTRICAL CONTRACTOR SHALL CONFIRM POWER, TELEPHONE AND CABLEVISION ENTRY AND DISTRIBUTION, AND SHALL ALSO ARRANGE FOR ALL PERMITS AND INSPECTIONS BY BOTH THE ELECTRICAL INSPECTION AND UTILITY AUTHORITIES.
- 16.24.9 THE OWNER WILL MAINTAIN THE CIVIL WORK ON PRIVATE PROPERTY. POWER COMPANY WILL MAINTAIN WORK ON PUBLIC PROPERTY. POWER COMPANY WILL OWN AND MAINTAIN TRANSFORMER KIOSK, PRIMARY HV CABLES AND SECONDARY CABLES TO THE LINE SIDE OF MAIN SWITCH.
- 16.24.10 PROVIDE PROTECTION POSTS AND/OR RETAINING WALLS TO PROTECT POWER EQUIPMENT PER POWER COMPANY INSPECTOR'S AND THE ELECTRICAL CODE REQUIREMENTS.
- 16.24.11 MINIMUM SEPARATION SHALL BE MAINTAINED BETWEEN TELEPHONE, CABLEVISION AND POWER DUCTS PER UTILITY REQUIREMENTS.
- 16.24.12 PLACE CONDUIT MARKERS FLUSH WITH GRADE OR FLOOR SLAB INDICATING THE ROUTING AND DEPTH OF UNDERGROUND PRIMARY SERVICE CONDUITS/CABLES.
- 16.24.13 HYDRO PULL-BOXES SHALL BE GROUNDED PER C.E.C. REQUIREMENTS.
- 16.24.14 CONSUMER'S SERVICE EQUIPMENT & CONDUCTORS LOCATION SHALL BE PER CEC 5-206 & 6-208.



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

**REAL PROPERTY SERVICES**  
Pacific Region  
**SERVICES IMMOBILIERS**  
Région de Pacifique

10 April 2017

2	ISSUED FOR TENDER	04/10/17
1	ISSUED FOR TENDER	02/22/17
Revision/Revisé	Description/Description	Date/Date

Client/Client

**PARKS CANADA WESTERN REGION**  
STEVESTON, B.C. NATIONAL HISTORIC SITE

Project title/Titre du projet

**GULF OF GEORGIA CANNERY ADMINISTRATION BUILDING**  
12138 FOURTH AVE, RICHMOND, BC

Consultant Signature Only  
**J.R. BESANT**

Designed by/Concept par  
**J.R. BESANT**

Drawn by/Dessiné par  
**C. INNES**

PWGSC Project Manager/Administrateur de Projets TPSCG  
**T. DUNPHY**

Regional Manager, Architectural and Engineering Services  
Gestionnaire régional, Services d'architecture et de génie, TPSCG  
**PREETIPAL PAUL**

Drawing title/Titre du dessin

**ELECTRICAL NOTES**  
SH. 1 of 2

Project No./No. du projet	Sheet/Feuille	Revision no./La Révision no.
<b>R.060702.001</b>	<b>E11</b> OF 12	<b>2</b>

ELECTRICAL NOTES SH. 2:

16.25. TELEPHONE SYSTEM

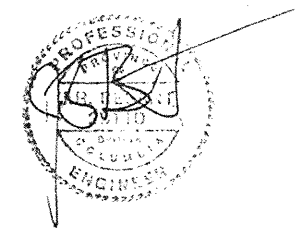
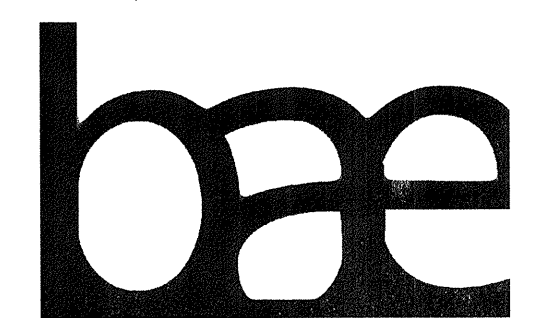
- 16.25.1 a) PROVIDE AND INSTALL CONDUIT c/w WIRING SYSTEM FOR TELEPHONE SERVICES, AS SHOWN ON THE DRAWINGS AND PER THE RECOMMENDATIONS OF THE TELEPHONE COMPANY AND INCLUDING ALL NECESSARY TELEPHONE SERVICE VAULT.
- b) A COMPLETE OUTLET AND WIRING SYSTEM FOR TELEPHONE SERVICE MUST BE PROVIDED. ALL WORK MUST BE IN ACCORDANCE WITH THE RECOMMENDED STANDARDS OF CAN/CSA T529, T530, M91, TELUS SYSTEM MANUAL, CEC AND EIA/TIA 568 STANDARDS.
- 16.25.2 PROVIDE 3/4" x 8' HIGH x LENGTH SHOWN, PAINTED PLYWOOD AND RECEPTACLE AND POWER AS REQUIRED FOR TELEPHONE EQUIPMENT IN THE ELECTRICAL/TELEPHONE ROOM. PLYWOOD TO BE FIRE RETARDANT TREATED.
- 16.25.3 RUN 1" EMT CONDUIT FROM THE TELEPHONE DISTRIBUTION BOARD TO EACH INDIVIDUAL SUITE AND TERMINATE CONDUIT IN A 100mm x 100mm (4" x 4") OUTLET BOX.
- 16.25.4 a) ALL CONDUIT SHALL BE CONNECTED USING APPROVED COUPLINGS AND FITTINGS AND SHALL CONFORM TO THE LATEST EXISTING BUILDING/ELECTRICAL CODES.
- b) CONDUITS SHALL NOT EXCEED TWO (2) 90 DEGREE SWEEP BENDS OR THE EQUIVALENT WITHOUT THE USE OF A PULL-BOX. TWO OFFSETS EQUAL ONE (1) 90 DEGREE BEND.
- c) NO CONDUIT RUN SHALL BE LONGER THAN 30.5m (100') BETWEEN PULL-BOXES OR TELEPHONE TERMINATING POINTS.
- 16.25.5 THE ELECTRICAL CONTRACTOR SHALL SUPPLY AND INSTALL ALL WIRING BEYOND THE TELEPHONE DEMARCATION POINT TO TELEPHONE COMPANY RECOMMENDATIONS. THIS PORTION OF THE WORK MUST BE COORDINATED WITH THE OWNER AND THE TELEPHONE COMPANY REPRESENTATIVE.
- 16.25.6 WIRING GUIDELINE:  
WIRING SHALL BE "CAT. 6" OR BETTER (NOTE: BETTER TRANSMISSION PERFORMANCE) FROM THE TELEPHONE DISTRIBUTION BOARD TO EACH TELEPHONE 4" x 4" OUTLET BOX IN EACH INDIVIDUAL SUITE. LEAVE 6FT. SPARE LOOPS OF WIRE IN THE OUTLET BOX. WIRING FROM THE OUTLET BOX TO EACH TELEPHONE OUTLET IN THE SUITE SHALL BE "CAT. 6" OR BETTER WIRING. ALL UNIT WIRING (i.e. NO OF PAIRS REQUIRED) SHALL BE PER TABLE BELOW:  
MINIMUM PAIRS REQUIRED FOR SUITES  
ONE BEDROOM 6 PAIRS  
TWO BEDROOM 6 PAIRS  
THREE BEDROOMS 10 PAIRS  
FOUR BEDROOMS 10 PAIRS  
PENTHOUSE 10 PAIRS  
TOWNHOUSE 10 PAIRS  
(MINIMUM PAIRS SHOWN ABOVE SHALL BE SOLID TWISTED PAIRS CAT. 5, FT4 OR FT6 AS REQUIRED.)
- 16.25.7 THE WIRING GUIDELINE ABOVE INDICATS MINIMUM REQUIREMENTS ONLY. THE CONTRACTOR SHALL INCLUDE IN HIS PRICE TO ENGAGE THE SERVICES OF A REPUTABLE TELECOMMUNICATIONS CONSULTING COMPANY TO CONFIRM EXACT WIRING REQUIREMENTS TO MEET THE REQUIREMENTS OF THE TELEPHONE SYSTEM WIRING FOR THIS PROJECT. THE CONTRACTOR SHALL ENSURE THAT TERMINATION, LABELLING AND TESTING IS PERFORMED BY THE TELECOMMUNICATION CONSULTANT. THE TELECOMMUNICATIONS CONSULTANT MUST CERTIFY THAT THE TELEPHONE SYSTEM AND WIRING CONFORMS TO THE REQUIREMENTS OF TELUS AND ALL APPLICABLE CODES.
- 16.25.8 PROVIDE PLASTER RINGS FOR ALL TELEPHONE OUTLETS. FOR TELEPHONE OUTLETS IN COMMON OR PARTY WALLS. PROVIDE STEEL BOX AND EXTRA GYPSUM BOARD IN WALL CAVITY BEHIND OUTLET. TELEPHONE OUTLETS SHALL BE "RJ45" TYPE AND "CAT.5" OUTLET.
- 16.25.9 PROVIDE TELEPHONE COVER PLATES.
- 16.25.10 THE CONTRACTOR SHALL PROVIDE NUMBER OF PAIRS FOR THE SUITES AS INDICATED IN THE SPECIFICATION PLUS 25% SPARE CAPACITY FOR EACH SUB CLOSET TELEPHONE CABLING SYSTEM.
- 16.25.11 TELEPHONE OUTLETS SHALL NOT BE PLACED IN THE SAME STUD CAVITY AS ELECTRICAL OUTLET. ALSO WHERE TELEPHONE OUTLETS ARE REQUIRED TO BE BACK TO BACK IN A PARTY WALL, THEY SHALL NOT BE LOCATED WITHIN THE SAME STUD CAVITY.
- 16.25.12 a) PROVIDE TELEPHONE OUTLETS IN AREA/SPACES AS SHOWN ON THE DRAWINGS AND FOR EACH RESIDENTIAL UNIT
- b) NOT WITHSTANDING (a) ABOVE, EACH RESIDENTIAL SUITE MUST BE PROVIDED WITH A MINIMUM OF TWO (2) TELEPHONE OUTLETS. ONE IN THE MASTER BEDROOM AND ONE OUTLET IN THE LIVING ROOM.
- 16.25.13 COIN TELEPHONE FACILITIES: WIRING SHALL BE PER TELEPHONE COMPANY RECOMMENDATIONS/REQUIREMENTS AND TELEPHONE INSTALLATION SHALL BE PER BUILDING CODE SECTION 3.7. PUBLIC TELEPHONES SHALL BE INSTALLED TO MEET THE REQUIREMENTS OF BUILDING CODE 3.8.3.16.

16.1. SMOKE ALARM (SELF CONTAINED, 120 VOLT A.C.):

- 16.28.1 THE CONTRACTOR SHALL PROVIDE SMOKE ALARM (CONFORMING TO LATEST ULC STANDARDS) IN EACH DWELLING UNIT/SLEEPING AREAS PER REQUIREMENTS OF THE BUILDING CODE AND AS SHOWN ON THE DRAWINGS. NOTE THE FOLLOWING:
  - SMOKE ALARM SHALL BE INSTALLED BY PERMANENT CONNECTION TO A 120V A.C. CIRCUIT SUPPLYING ADJACENT LIGHTING CIRCUITS. THE ALARM SHALL NOT BE CONNECTED TO ANY CIRCUIT SERVING EQUIPMENT CONTAINING MOTORS (eg. EXHAUST FANS AND HEATERS) OR WALL RECEPTACLES OR ANY CIRCUIT WHERE GFCI PROTECTION IS PROVIDED.
  - NO DISCONNECT SWITCH BETWEEN O/C DEVICE AND SMOKE ALARM(S)
  - LOCATION OF SMOKE ALARMS AND QUANTITY PER CODE REQUIREMENTS. LOCATE CENTRALLY, BUT AWAY FROM KITCHEN, BATHROOM AND DINING AREAS TO AVOID FALSE ALARMS.
  - MORE THAN ONE SMOKE ALARM IN THE SAME DWELLING UNIT SHALL BE TANDEM CONNECTED.
  - CAUTION: SMOKE ALARMS MUST BE PROVIDED ON EACH STOREY OF A DWELLING UNIT;
- a) REGARDLESS OF WHETHER OR NOT THERE ARE SLEEPING AREAS ON ALL STOREYS
- b) REGARDLESS WHETHER OR NOT SHOWN ON THE DRAWINGS.
  - A SMOKE ALARM SHALL BE SUPPLIED FROM A LIGHTING CIRCUIT, OR FROM A CIRCUIT THAT SUPPLIES A MIX OF LIGHTING AND RECEPTACLES AND IN ANY CASE SHALL NOT BE INSTALLED;
- a) WHERE CIRCUIT IS PROTECTED BY GFCI AND AFCI
- b) WHERE PROHIBITED BY CEC OTHER RULES (ie. RULE 26-720 TO 26-724 ETC.)
  - SMOKE ALARM SHALL ALSO CONFORM TO THE ULC STANDARD CAN/ULC-S531
  - WARRANTY: SMOKE ALARMS MUST BE PROVIDED WITH A MINIMUM OF FIVE (5) YEARS WARRANTY.
- 16.29. FUNCTIONAL TESTING OF ELECTRICAL RELATED FIRE EMERGENCY SYSTEMS AND DEVICES:  
THIS SHALL BE CARRIED OUT BY THE SYSTEM SUPPLIER (FEE FOR THIS TO BE INCLUDED IN ELECTRICAL CONTRACT PRICE) IN THE PRESENCE OF REPRESENTATIVE(S) OF THE FIRE MARSHALL, AND ELECTRICAL AND MECHANICAL CONTRACTOR/CONSULTANTS.
- 16.30. NOT USED.
- 16.31. ELECTRICAL ROOM - GENERAL:
- 16.31.1 CLEAR HEIGHT AND DIMENSIONS: (ie. LENGTH x WIDTH) OF THE ELECTRICAL ROOM(S) MUST BE CONFIRMED WITH ARCHITECT OR HIS REPRESENTATIVE BEFORE ORDERING ANY ELECTRICAL EQUIPMENT.
- 16.31.2 CAUTION: ELECTRICAL EQUIPMENT DIMENSIONS SHOWN ON THE LAYOUTS ARE MAXIMUM ACCEPTABLE DIMENSIONS. THE CONTRACTOR MUST ENSURE THAT EQUIPMENT ORDERED DOES NOT EXCEED THESE DIMENSIONS.
- 16.31.3 MINIMUM WORKING SPACE AND EXIT PATHWAYS SHALL BE PROVIDED ABOUT ELECTRICAL EQUIPMENT AS REQUIRED BY C.E.C. RULE 2-308 AND C.E.C. RULE 2-310. MINIMUM 1.5 METER UNOBSTRUCTED WIDTH REQUIRED FOR THE PATH OF TRAVEL IN THE DIRECTION OF EXIT FROM EQUIPMENT RATED 1200A OR MORE, OR RATED OVER 750V. MINIMUM ONE (1) METER WORKING SPACE REQUIRED FOR EQUIPMENT RATED LESS THAN 1200A AND RATED LESS THAN 750V
- 16.31.4 CAUTION: THE ELECTRICAL CONTRACTOR TO COORDINATE WITH THE SITE SUPERVISOR, MECHANICAL CONTRACTOR AND OTHER SUB-TRADES TO ENSURE:
  - a) NO PLUMBING PIPES OR OTHER TYPES OF PIPES SHALL PENETRATE OR BE INSTALLED IN ELECTRICAL ROOMS, EXCEPT THOSE SUPPLYING SPRINKLER HEADS IN THESE ROOMS, IF REQUIRED.
  - b) NO TOILET, BATHTUB OR ANY DRAIN/PLUMBING ON FLOOR AREA ABOVE THE ELECTRICAL ROOM.
  - c) ANY DISCREPENCIES BETWEEN THE DRAWINGS (ie. ARCHITECT/ALL SUB CONSULTANTS) AND SPECIFICATION SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT/ENGINEER AND CLARIFIED IN WRITING ONLY PRIOR TO THE CONTRACTOR SUBMITTING HIS BID.
- 16.31.5 THE ELECTRICAL ROOM SHALL BE SEPARATED FROM THE REMAINDER OF THE BUILDING BY A FIRE SEPARATION HAVING FIRE-RESISTANT RATING PER BUILDING CODE REQUIREMENT.
- 16.31.6 THE FLOOR OF THE ELECTRICAL ROOM SHALL BE SLOPED DOWN (MINIMUM 1% SLOPE) TOWARDS THE LOCATION OF THE DOOR.
- 16.31.7 ELECTRICAL CONTRACTOR ATTENTION:
  - A) THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE TO ENSURE THAT THE ELECTRICAL EQUIPMENT TO BE INSTALLED IN THE ELECTRICAL ROOM MEETS ALL NECESSARY CODE CLEARANCE AND REQUIREMENTS.
  - B) ANY DISCREPENCIES BETWEEN DRAWINGS, SPECIFICATION, EQUIPMENT, DIMENSIONS CLEARANCES, ETC. SHALL BE BROUGHT TO THE ENGINEER AND CLARIFIED IN ONLY WRITING PRIOR TO THE TENDER/PRICING ACCEPTANCE. IF THIS IS NOT DONE, IT SHALL BE PRESUMED THAT THE MOST EXPENSIVE ALTERNATIVE HAVE BEEN INCLUDED IN THE TENDER/PRICING.
- 16.1. NOT USED
- 16.2. FIRE SPREAD/FLAME SPREAD REQUIREMENTS
- 16.33.1 FIRE SPREAD:
  - a) TO REDUCE THE POSSIBILITY OF FIRE SPREAD; FIRE SPREAD REQUIREMENTS FOR ELECTRICAL INSTALLATIONS SHALL BE PER C.E.C. RULE 2-124 WHERE A FIRE SEPARATION HAS BEEN PIERCED, THE EFFECTIVENESS OF CLOSING SHOULD BE TO THE SATISFACTION OF BUILDING AUTHORITY HAVING JURISDICTION.

16.33.2 FLAME SPREAD REQUIREMENTS:

- a) FLAME SPREAD REQUIREMENTS FOR ELECTRICAL WIRING/MATERIALS AND CABLES AND THEIR USE IN BUILDINGS SHALL BE PER C.E.C. RULES 2-126, 2-128, BULLETIN 2-8-0, APPLICABLE BUILDING CODE ARTICLES AND SHALL MEET FLAME SPREAD RATING REQUIREMENTS OF ALL AUTHORITIES HAVING JURISDICTION. (ie. INTENT IS THAT WIRING, CABLES ETC. INSTALLED IN BUILDING SHALL MEET THE SAME MINIMUM REQUIREMENTS AS BUILDING MATERIALS FOR FLAME SPREAD, SO THAT THEY DO NOT INCREASE THE FIRE RISK.
- b) ENSURE THAT ALL CABLES AND WIRES ARE RATED EITHER FT1 FOR BUILDINGS CLASSIFIED AS COMBUSTIBLE, FT4 FOR NON-COMBUSTIBLE BUILDINGS AND FT6 FOR PLENUM USE AS REQUIRED BY THE BUILDING CODE.
- 16.33.3 ALL FIRE RESISTANCE RATED ASSEMBLIES (ie. WALLS, CEILINGS, ETC.) WHICH CONTAIN RECESSED LUMINAIRES MUST BE c/w FIRE RATED BACKING TO MAINTAIN THE FIRE INTEGRITY OF THE FIRE RESISTANCE.
- 16.34. BRANCH CIRCUIT LOADING  
UNLESS SPECIFICALLY NOTED ELSEWHERE IN THE DRAWINGS/SPECIFICATIONS, CIRCUIT LOADING SHALL NOT EXCEED THE FOLLOWING CRITERIA:
- 16.34.1 GENERAL
  - a) LIGHTING - 15AMP/1P BREAKER; MAXIMUM 1000 WATTS PER CIRCUIT (120V) AND NOT TO EXCEED (10) OUTLET PER CIRCUIT.
  - SIZE OF WIRING TO LIMIT VOLTAGE DROP TO 3% MAXIMUM.
  - b) RECEPTACLES - 15AMP/1P BREAKER; MAXIMUM 5 OUTLETS PER CIRCUIT (120V). 15AMP/1P BREAKER; 1 OUTLET PER CIRCUIT FOR "DEDICATED".
  - c) MOTOR - NAMEPLATE RATING/CODE REQUIREMENTS
- 16.34.2 HVAC EQUIPMENT, APPLIANCES, ELECTRIC HEATING EQUIPMENT, MECHANICAL EQUIPMENT: CIRCUIT LOADING PER CODE REQUIREMENTS/NAMEPLATE INFORMATION/MANUFACTURER'S INFORMATION.
- 16.34.3 VOLTAGE DROP: DO NOT EXCEED THE MAXIMUM VOLTAGE DROP ALLOWED PER CEC CODE (SEE RULE 8-102); ELECTRICAL CONTRACTOR'S RESPONSIBILITY: WIRING SIZE MUST BE INCREASED TO ACHIEVE THIS RESULT.
- 16.1. NOT USED



10 April 2017

2	ISSUED FOR TENDER	04/10/17
1	ISSUED FOR TENDER	02/22/17
Revision/	Description/Description	Date/Date
Client/client		

**PARKS CANADA WESTERN REGION**  
STEVESTON, B.C. NATIONAL HISTORIC SITE

Project title/Titre du projet  
**GULF OF GEORGIA CANNERY ADMINISTRATION BUILDING**  
12138 FOURTH AVE, RICHMOND, BC

Consultant Signature Only  
**J.R. BESANT**  
Designed by/Concept par  
**J.R. BESANT**  
Drawn by/Dessiné par  
**C. INNES**  
PWGSC Project Manager/Administrateur de Projets TPSGC  
**T. DUNPHY**  
Regional Manager, Architectural and Engineering Services  
Gestionnaire régional, Services d'architecture et de génie, TPSGC  
**PREETIPAL PAUL**

Drawing title/Titre du dessin  
**ELECTRICAL NOTES SH. 2 of 2**

Project No./No. du projet <b>R.060702.001</b>	Sheet/Feuille <b>E12</b> OF 12	Revision no./Loi Révision no. <b>2</b>
--	--------------------------------------	---

