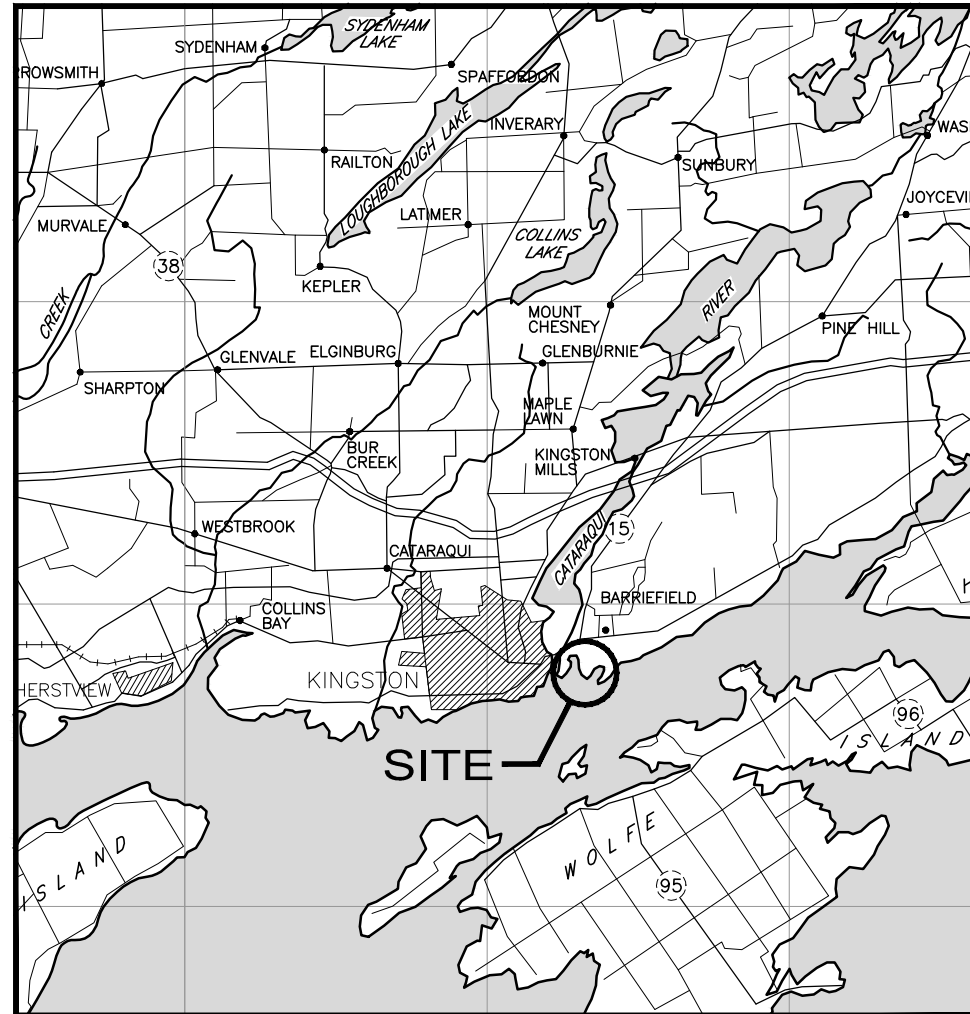


FORT HENRY NATIONAL HISTORIC SITE CURTAINWALL REVETMENT CONSERVATION

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KEY PLAN



GEORGIAN BAY AND ONTARIO EAST FIELD UNIT
AND THE ONTARIO WATERWAYS GROUP



Parks Canada Parcs Canada



Project: 30026566 APRIL, 2015

GENERAL NOTES:

- PORTIONS OF THE REDOBT MAY CONTAIN ARTIFACTS THAT WILL ONLY BECOME VISIBLE WHEN REMOVALS OF STONE MASONRY ARE COMPLETED. IF ARTIFACTS ARE UNCOVERED DURING THE COURSE OF THE WORK, DO NOT PROCEED WITH ANY FURTHER WORK IN THE AREA UNTIL DIRECTION IS GIVEN BY THE DEPARTMENTAL REPRESENTATIVE.
- PROVIDE PROTECTION TO ALL ARCHITECTURAL FEATURES TO REMAIN. PROTECTION TO BE A MINIMUM OF, BUT NOT LIMITED TO, THE USE OF PLYWOOD AND RIGID INSULATION. ANY FEATURES WHICH ARE DAMAGED AS A RESULT OF FAILURE TO PROVIDE ADEQUATE PROTECTION, SHALL BE REPAIRED TO THE SATISFACTION OF THE DEPARTMENTAL REPRESENTATIVE AT NO ADDITIONAL EXPENSE TO THE CONTRACT.
- LEAD PAINT HAS BEEN FOUND ON THE WINDOWS AND DOORS AND MOULD GROWTH HAS ALSO BEEN DETECTED IN AND AROUND THESE UNITS. COMPLETE REMOVALS/TREATMENT AS PER APPLICABLE LEGISLATION. ALSO SEE REPORT TO PWGSC DATED JULY 2006.
- WHERE CONDUIT, PIPE, WIRING, ETC. IS ATTACHED TO THE EXISTING MASONRY TO BE REPAIRED, CAREFULLY REMOVE AND SALVAGE FOR REINSTATEMENT. PRIOR TO REINSTATEMENT, VERIFY WITH DEPARTMENTAL REPRESENTATIVE THAT NEW MATERIALS ARE NOT TO BE USED. ANY REMOVED MATERIALS WHICH ARE NOT TO BE RE-INCORPORATED IN THE WORK SHALL BE DISPOSED OF OFF SITE.
- ALL DEBRIS FROM THE WORK SHALL BE REMOVED FROM THE SITE ON A DAILY BASIS FOR THE DURATION OF THE CONTRACT. TEMPORARY STOCKPILING SHALL ONLY BE PERMITTED ON PLYWOOD SHEETING OVER ANY ASPHALT OR CONCRETE SURFACE. ALL EFFECTED AREAS SHALL BE CLEANED UP PROMPTLY WHEN REMOVALS ARE COMPLETE TO THE SATISFACTION OF THE DEPARTMENTAL REPRESENTATIVE.
- DO NOT ALLOW ANY MATERIAL LIQUIDS, OR OTHER DELETERIOUS SUBSTANCES TO ENTER THE CATCH BASINS.
- MINIMIZE DUST AND NOISE.
- NO EQUIPMENT (SKID STEERING OR OTHER) SHALL BE USED IN THE PARADE SQUARE AREA WHICH MAY CAUSE DAMAGE TO THE ASPHALT SURFACE.
- REINSTATE AND MAKE GOOD ALL DISRUPTED AREAS TO THE SATISFACTION OF THE DEPARTMENTAL REPRESENTATIVE AFTER COMPLETION OF THE WORK.

MASONRY CONSTRUCTION:

- ALL MASONRY WORK, CAUSING A DUSTY ENVIRONMENT WITHIN THE HOARDING, INCLUDING BUT NOT LIMITED TO MORTAR JOINT AND STONE REMOVALS, MUST BE COMPLETED PRIOR TO ANY WINDOW/DOOR REMOVALS UNLESS OTHERWISE APPROVED BY DEPARTMENTAL REPRESENTATIVE.
- ALL MASONRY RESTORATION TO BE TO CAN3-A371-M84 EXCEPT AS MODIFIED BY THESE DRAWINGS OR THE CONTRACT SPECIFICATIONS. ALL MASONRY RESTORATION IS TO PRESERVE HERITAGE APPEARANCE.
- NO STONE UNITS ARE TO BE REPAIRED OR REPLACED WITHOUT PRIOR INSPECTION OR APPROVAL OF THE DEPARTMENTAL REPRESENTATIVE. SALVAGE STONE REMOVALS AS DIRECTED BY THE DEPARTMENTAL REPRESENTATIVE.
- MORTAR USED FOR BEDDING OF STONE UNITS, MORTAR FILL, BACK POINTING AND FINISH POINTING SHALL BE A 1:1:6 (PORTLAND CEMENT: LIME: SAND) MIXTURE. MORTARS SHALL CONFORM TO CSA A179-04, "MORTAR AND GROUT FOR UNIT MASONRY", EXCEPT AS MODIFIED BY THE SPECIFICATIONS. ALL MORTAR SHALL BE AIR ENTRAINED 15%, EXCEPT FOR BEDDING MORTAR WHEN LAYING STONE UNITS.

NOTE:

SOME LIGHTING FIXTURES ARE MOUNTED ON THE WALLS TO BE REPAIRED. ELECTRICAL CABLE FEEDS ARE TO BE ASSUMED AS BURIED IN THE MASONRY JOINTS AND CONTRACTOR TO ENSURE ALL POWER IS OFF PRIOR TO COMMENCING ANY REMOVAL WORKS. EXISTING FEEDS ARE TO BE REPLACED AND BURIED IN THE JOINTS DURING COURSE OF REPOINTING C/W SPECIAL JOINT FINISH SEALANT INSTEAD OF FINISH REPOINTING WITH MORTAR. FIXTURES ARE ALSO TO BE REMOVED, TURNED OVER TO FORT MAINTENANCE FOR REPAIR/REFURBISHING AND, REINSTALLED AS PART OF THIS WORK.

MASONRY CONSTRUCTION (CONT):

- UNLESS OTHERWISE DIRECTED BY THE DEPARTMENTAL REPRESENTATIVE, ALL SKYWARD FACING MASONRY JOINTS SHALL BE SEALED WITH AN ACRYLIC LATEX SEALANT. SEALER TO BE INSTALLED AS THE FINISH LAYER OF POINTING IN STRICT CONFORMANCE WITH THE MANUFACTURER'S RECOMMENDATIONS, COMPLETE WITH BACKER ROD AND/OR BOND BREAKING TAPE AND TO MATCH COLOUR OF ADJACENT MORTAR.
- NEW REPLACEMENT STONE SHALL MATCH EXISTING IN SIZE, COLOUR (LONG TERM WEATHERED), TEXTURE AND FINISH. REPLACEMENT STONE SHALL BE A CATEGORY III LIMESTONE MEETING THE REQUIREMENTS OF ASTM C568.
- WHERE DIRECTED BY THE DEPARTMENTAL REPRESENTATIVE, CRACK REPAIRS SHALL BE COMPLETED WITH DISPERSED HYDRATED LIME (DHL) OR REPAIR MORTAR/GROUT. IN GENERAL, DHL SHALL BE USED FOR VERTICAL CRACKS AND REPAIR ON MORTAR/GROUT SHALL BE USED FOR HORIZONTAL CRACKS/DELAMINATIONS AT STYLOLITIC INCLUSION LOCATIONS.
- WHERE DIRECTED BY THE DEPARTMENTAL REPRESENTATIVE, SPALLS ON STONE UNITS SHALL BE REBUILT AND FINISHED TO THE ORIGINAL PROFILE USING REPAIR MORTARS.
- GROUT USED TO FILL VOIDS IN MASONRY OR BEHIND DUTCHMAN REPAIRS SHALL BE A PREMIXED HYDRAULIC LIME BASED GROUT, SUCH AS "FLOMIX" SUPPLIED BY DAUBOIS. MORTAR FILL MAY BE USED TO FILL VOIDS RATHER THEN GROUT, WHERE APPROVED BY THE DEPARTMENTAL REPRESENTATIVE.
- NO CLEANING OF THE EXISTING STONE WORK IS TO BE CARRIED OUT OTHER THAN THAT REQUIRED TO RESTORE EXISTING APPEARANCE AS A RESULT OF SPILLAGE OF MORTAR, GROUT, ADHESIVES, ETC. RESULTING FROM THE WORK OF THIS CONTRACT.
- CAREFULLY REMOVE ALL FERROUS INSERTS IN THE STONE UNITS. ALL HOLES RESULTING FROM THESE REMOVALS SHALL BE FILLED WITH REPAIR MORTAR TO MATCH THE EXISTING STONE UNIT PROFILE AND FINISH.

WINDOW CONSERVATION:

- NO WINDOW REMOVALS ARE PERMITTED PRIOR TO ANY MASONRY WORK BEING CARRIED OUT WHICH WILL RESULT IN CAUSING A DUSTY ENVIRONMENT.
- SEE WINDOW SCHEDULE AND DETAILS FOR SCOPE OF REPAIRS TO WINDOW UNITS.
- PRIOR TO ALL WINDOW CONSERVATION MEASURES, REMOVE ALL SHUTTERS, LOUVERED VENT UNITS, 'STORM' WINDOWS, ROOM DARKENING AND DISPLAYS FROM WINDOWS, INCLUDING WINDOW EMBRASURES AND STORE AS DIRECTED BY DEPARTMENTAL REPRESENTATIVE.
- FOLLOWING COMPLETION OF MASONRY REPAIRS, REMOVE ALL SASH FOR REPAIRS (UNLESS OTHERWISE NOTED) DOCUMENTING LOCATION OF EACH UNIT. REMOVE FRAMES ONLY IF DIRECTED. PROVIDE TEMPORARY PLYWOOD COVERS TO MAINTAIN WEATHER TIGHTNESS AND SECURITY TO SATISFACTION OF DEPARTMENTAL REPRESENTATIVE.
- CONSERVE MAXIMUM AMOUNT OF ORIGINAL MATERIAL. ACCEPT MINOR GOUGES AND CHECKS, BUT CUT OUT ALL DECAYED WOOD PIECES AND REPLACE IN NEW SOUND 'C'-SELECT WHITE PINE. PRESERVATIVE TREAT WITH ZINC NAPHTHANATE, SEE WINDOW SCHEDULE-EXCEPT SILL REPLACEMENT WHICH IS TO BE WHITE OAK. FOR MINOR DAMAGE USE WOOD-EPOX FILLER.
- REPLACE ELEMENTS e.g. SASH, MUNTINS, RAILS, ETC. AS DIRECTED. SEE WINDOW SCHEDULE. ALL REPLACEMENT MATERIAL TO BE 'C'-SELECT WHITE PINE ACCURATELY MATCHING DIMENSION AND PROFILE OF ORIGINAL. PRESERVATIVE TREAT WITH ZINC NAPHTHANATE.
- BACKPRIME ALL NEW WOOD AND EXISTING ELEMENTS WHICH HAVE BEEN STRIPPED TO BARE WOOD.
- RE-GLAZE AND INSTALL OPAQUE FILM, WHERE INDICATED, AS DIRECTED BY THE DEPARTMENTAL REPRESENTATIVE. SEE WINDOW SCHEDULE.
- PRIME AND PAINT (2 FINISH COATS) ALL UNITS.
- PROVIDE SPRUNG BRONZE WEATHER STRIPPING TO ALL OPERABLE UNITS AND MODIFY SASH/FRAME TO ACCOMMODATE. SEE DETAIL.
- ISOLATE WOOD SILL FROM CONCRETE WITH MEMBRANE SUCH AS BLUESKIN.

DOOR CONSERVATION:

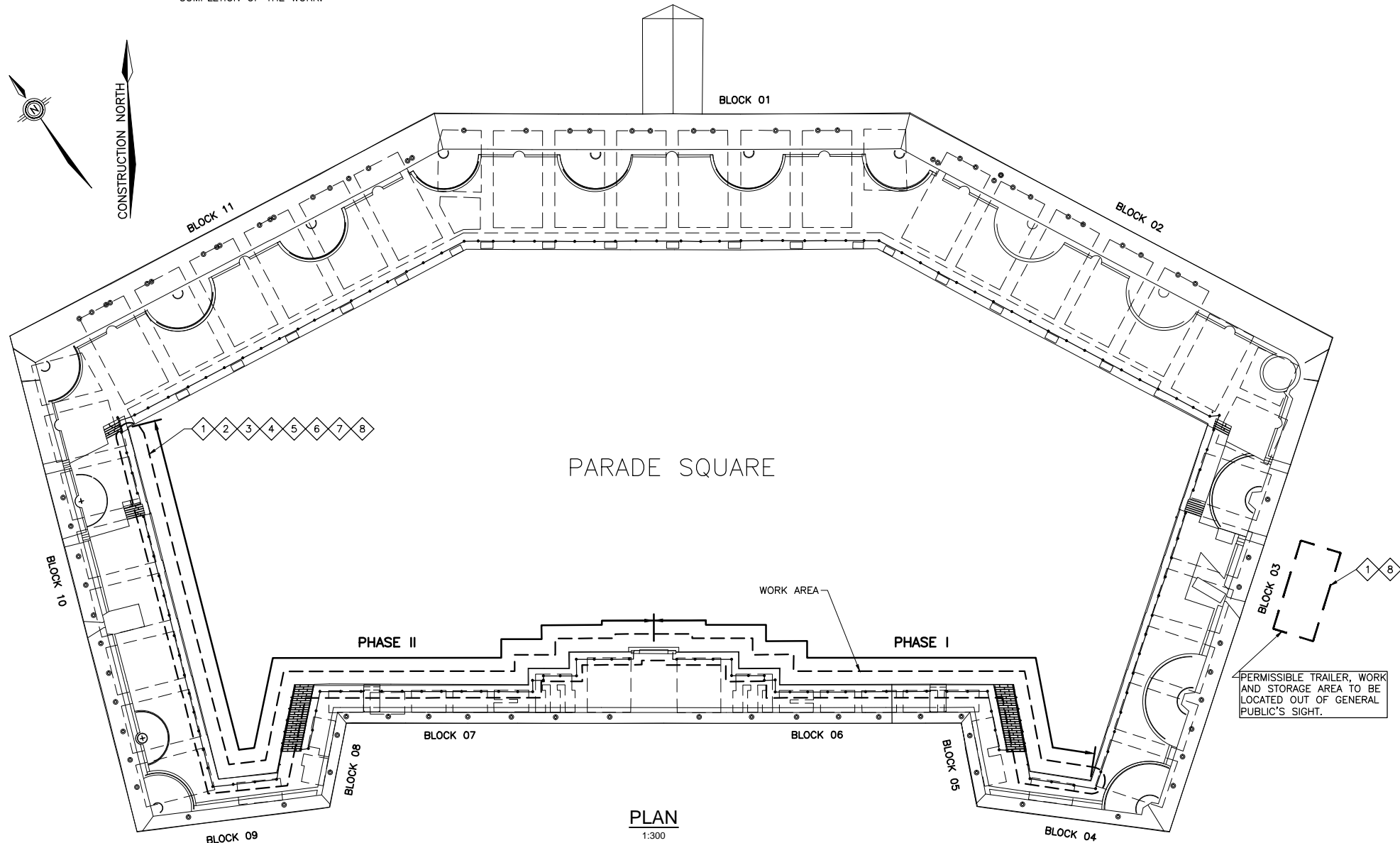
- NO DOOR REMOVALS ARE PERMITTED PRIOR TO ANY MASONRY WORK WHICH WILL RESULT IN A DUSTY ENVIRONMENT.
- SEE DOOR SCHEDULE AND DETAILS FOR SCOPE OF REPAIRS TO DOORS.
- TREAT GLAZED DOOR TRANSOMS SAME AS WINDOWS.
- FOLLOWING COMPLETION OF MASONRY REPAIRS, REMOVE ALL DOORS FOR REPAIRS (UNLESS OTHERWISE NOTED). REMOVE FRAMES ONLY IF DIRECTED. PROVIDE TEMPORARY OPERABLE PLYWOOD DOOR UNIT COVERS TO MAINTAIN WEATHER TIGHTNESS, ENTRANCE AND EGRESS, AND SECURITY TO SATISFACTION OF DEPARTMENTAL REPRESENTATIVE.
- CONSERVE MAXIMUM AMOUNT OF ORIGINAL MATERIAL. ACCEPT MINOR GOUGES AND CHECKS, BUT CUT OUT ALL DECAYED WOOD PIECES AND REPLACE WITH NEW SOUND 'C'-SELECT WHITE PINE. PRESERVATIVE TREAT WITH ZINC NAPHTHANATE, SEE DOOR SCHEDULE. FOR MINOR DAMAGE USE WOOD-EPOX FILLER SUCH AS P.C. WOODY.
- REPLACE ELEMENTS e.g. RAILS, STILES, AND PANELS ETC. ASSUME THE BOTTOM 200mm OF ALL DOOR JAMBS WILL REQUIRE REPLACEMENT. SEE DOOR SCHEDULE. ALL REPLACEMENT MATERIAL TO BE 'C'-SELECT WHITE PINE ACCURATELY MATCHING DIMENSION PROFILE OF ORIGINAL. PRESERVATIVE TREAT WITH ZINC NAPHTHANATE.
- PRIME AND PAINT (2 FINISH COATS) ALL UNITS. (REMOVE HARDWARE FOR PAINTING)
- PROVIDE COPPER WEATHER-STRIPPING AS ABOVE, MODIFYING FRAME, STILES AND RAILS TO ACCOMMODATE.
- REPLACE ALL WOODEN 'SWEEP/KICKGUARDS'.

SCOPE OF WORK:

- SETUP WORK AND STORAGE AREAS AND SCAFFOLDING ACCESS, c/w COVERED HOARDING, TO COMPLETE ALL OF THE WORKS INDICATED WITHIN THE NOTED LIMITS.
- INSTALL AND MAINTAIN HEATING SYSTEM TO FACILITATE COLD WEATHER MASONRY WORK.
- REPOINT ALL MASONRY JOINTS WITHIN LIMITS SHOWN ON DWGS. PROVIDE COVERS, TARPS, ETC. AS REQUIRED TO PREVENT WATER (RAIN OR SNOW MELT) FROM PENETRATING THE STRUCTURE.
- COMPLETE REPAIRS TO INDIVIDUAL STONE UNITS AS DIRECTED BY THE DEPARTMENTAL REPRESENTATIVE.
- COMPLETE FULL DUTCHMAN STONE REPAIR(S) AS DIRECTED BY THE DEPARTMENTAL REPRESENTATIVE.
- COMPLETE REPAIRS/REPLACEMENT TO WINDOWS AND DOORS AS INDICATED AND AS DIRECTED BY THE DEPARTMENTAL REPRESENTATIVE.
- CLEAN UP AND RESTORE FEATURES DAMAGED BY THIS WORK TO THE SATISFACTION OF THE DEPARTMENTAL REPRESENTATIVE.
- REMOVE ALL ACCESS WORKS AND COMPLETE GENERAL SITE CLEAN UP TO THE SATISFACTION OF THE DEPARTMENTAL REPRESENTATIVE.

NOTE:

THE ABOVE IS NOT INTENDED TO BE AN EXHAUSTIVE LIST OF ALL ITEMS REQUIRED TO COMPLETE THE WORK, NOR IS IT INTENDED TO BE A SEQUENCE OF WORK.



3	APR 15	ISSUED FOR TENDER	S.M.E	S.T.R
2	FEB15'	FOR 99% REVIEW	S.M.E	S.T.R.
1	JAN15'	FOR 66% REVIEW	S.M.E	S.T.R.
No.	Date	Description	Drawn by Dessine par	Approved Approuvé

Revision / Révision	
A	A Detail number No. du détail
B	B Location dwg. no. No. sur dessin
C	C Drawing sheet no. No. du dessin

Client Acceptance / Acception du client
 Signature _____ Date _____
 File No./No. de dossier _____



André Scheinman
HERITAGE PRESERVATION CONSULTANT

Project title / Titre du projet

**FORT HENRY NATIONAL
HISTORIC SITE OF CANADA
CURTAINWALL REVETMENT
CIBSERVATION**

KINGSTON ONTARIO

Drawing title / Titre du dessin

GENERAL PROJECT NOTES

Scale / Échelle
NOT TO SCALE

Drawn by/ Dessiné par S.M.E Date MARCH 2015

Designed by/ Conçu par S.T.R Date MARCH 2015

Checked by/ Vérifié par D.A.H Date MARCH 2015

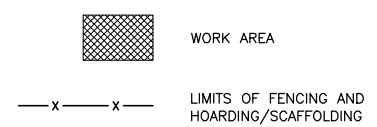
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Drawing Reference No./Numéro de Référence du Dessin



LEGEND:



ACCESS and PROTECTION:

- ALL ACCESS WORKS TO BE RESTRICTED TO THE IMMEDIATE AREA ADJACENT TO THE WALLS EFFECTED.
- SUBMIT 3 COPIES OF SHOP DRAWINGS TO THE DEPARTMENTAL REPRESENTATIVE FOR REVIEW FOR ALL ACCESS AND CONVEYANCE WORKS UNLESS OTHERWISE APPROVED BY THE DEPARTMENTAL REPRESENTATIVE.
- PROVIDE ALL SCAFFOLDING, LADDERS, ACCESS LIFTING EQUIPMENT, ETC. AS NECESSARY TO CARRY OUT THE WORK OF ALL TRADES. ALL MEANS OF ACCESS TO BE IN ACCORDANCE WITH THE OCCUPATIONAL HEALTH AND SAFETY ACT. FIELD MEASURE TO ENSURE PROPER FIT OF ALL WORKS.
- INSTALL, MAINTAIN AND REMOVE ALL BARRIERS AT THE SITE TO PREVENT ACCESS BY THE PUBLIC TO THE IMMEDIATE WORK AREA. ALL BARRIERS TO BE IN ACCORDANCE WITH OCCUPATIONAL HEALTH AND SAFETY ACT. INSTALL, MAINTAIN AND REMOVE ALL PLYWOOD HOARDING AS REQUIRED TO PREVENT FALLING OBJECTS/DEBRIS FROM HITTING THE PUBLIC BELOW.
- SCAFFOLDING SHALL BE ERECTED ON WOOD SILLS OVER PLYWOOD AND TARPS. WOOD SILLS SHALL BE OF SUFFICIENT SIZE TO ENSURE NO DAMAGE TO EXISTING FEATURES.
- NO LOOSE DEBRIS OR NEW STONE SHALL BE STORED ON THE BARE ASPHALT SURFACE, ALL MATERIALS MUST BE STORED IN BINS OR ON SKIDS AND PLACED ON PLYWOOD.
- ALL EQUIPMENT AND VEHICLE ACCESS MUST BE PRE-APPROVED BY DEPARTMENTAL REPRESENTATIVE AND OWNER. NO EQUIPMENT (SKID STEERING OR OTHER) SHALL BE USED IN THE PARADE SQUARE AREA WHICH MAY CAUSE DAMAGE TO THE ASPHALT SURFACE. ALL TRAVELED SURFACES MUST BE PROTECTED THROUGHOUT THE COURSE OF CONSTRUCTION. ANY DAMAGE THAT OCCURS TO THE ASPHALT SURFACE AS A RESULT OF FAILURE TO COMPLY WITH THIS REQUIREMENT, OR FOR ANY OTHER REASON AS A RESULT OF THIS WORK, SHALL BE REPAIRED TO THE SATISFACTION OF THE DEPARTMENTAL REPRESENTATIVE AT NO ADDITIONAL COST TO THE CONTRACT. COLD PATCHING WILL NOT BE ACCEPTED AS A METHOD OF REPAIR. ANY REPAIRS MUST BE DONE BY AN EXPERIENCED PAVING CREW FULL WIDTH AND/OR LENGTH OF THE PARADE SQUARE.
- ENSURE DRAINAGE TO CATCH BASINS IS MAINTAINED AT ALL TIMES. DO NOT ALLOW ANY DELETERIOUS MATERIALS/SUBSTANCES TO ENTER CATCH BASINS.
- THE LOCATIONS DELINEATED ON THIS DRAWING FOR PARKING, SITE TRAILER LOCATION AND STORAGE/WORK SHALL BE THE ONLY LOCATIONS USED BY THE CONTRACTOR UNLESS OTHERWISE APPROVED BY THE DEPARTMENTAL REPRESENTATIVE.
- CONTRACTOR SHALL PROVIDE HIS OWN SANITARY FACILITIES AND SHALL NOT USE EXISTING FORT WASHROOMS.
- CONTRACTOR SHALL PROVIDE ADEQUATE PROTECTION FOR ALL MATERIALS USED TO ENSURE TEMPERATURES ARE MAINTAINED AS PER MANUFACTURERS RECOMMENDATIONS AND CSA A179-04 AND AS DIRECTED/APPROVED BY THE DEPARTMENTAL REPRESENTATIVE.
- INTERIOR PASSAGE (INTERPRETATION WING/OFFICER'S QUARTERS) TO REMAIN UNOBSTRUCTED AND OPEN TO PUBLIC DURING CONSTRUCTION. THE HALLWAY MUST REMAIN CLEAN AND CLEAR FROM ANY DUST OR DEBRIS FOR THE DURATION OF THE CONTRACT. THE REQUIRED LEVEL OF CLEANLINESS WILL BE SUBJECT TO THE APPROVAL OF THE DEPARTMENTAL REPRESENTATIVE.

3	APR 15	ISSUED FOR TENDER	S.M.E	S.T.R
2	FEB 15	FOR 99% REVIEW	S.M.E	S.T.R.
1	JAN 13	FOR 66% REVIEW	M.W.M.	S.T.R.
No.	Date	Description	Drawn by	Dessine par

Revision / Révision	
A	Detail number No. du détail
B	Location dwg. no. No. sur dessin
C	Drawing sheet no. No. du dessin

Client Acceptance / Acceptation du client
 Signature _____ Date _____
 File No./No. de dossier _____



Project title / Titre du projet

FORT HENRY NATIONAL HISTORIC SITE OF CANADA CURTAINWALL REVETMENT CONSERVATION

KINGSTON ONTARIO

Drawing title / Titre du dessin

SITE ACCESS AND HOUSING DETAILS

Scale / Échelle
NOT TO SCALE

Drawn by / Dessiné par
S.M.E Date
MARCH 2015

Designed by/ Conçu par
S.T.R Date
MARCH 2015

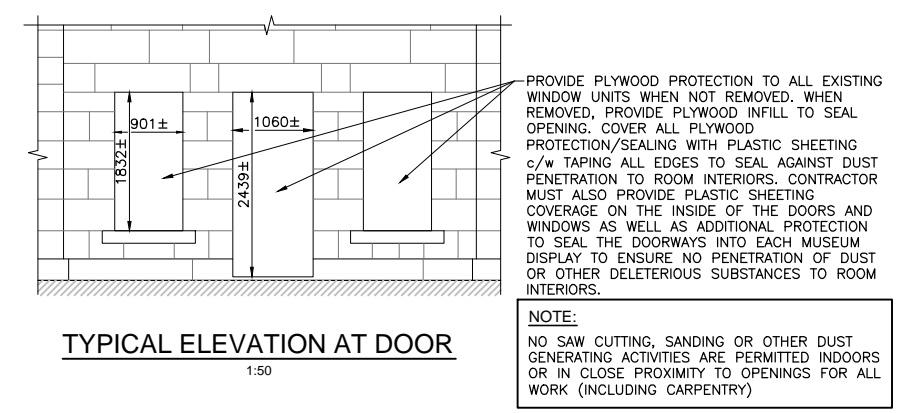
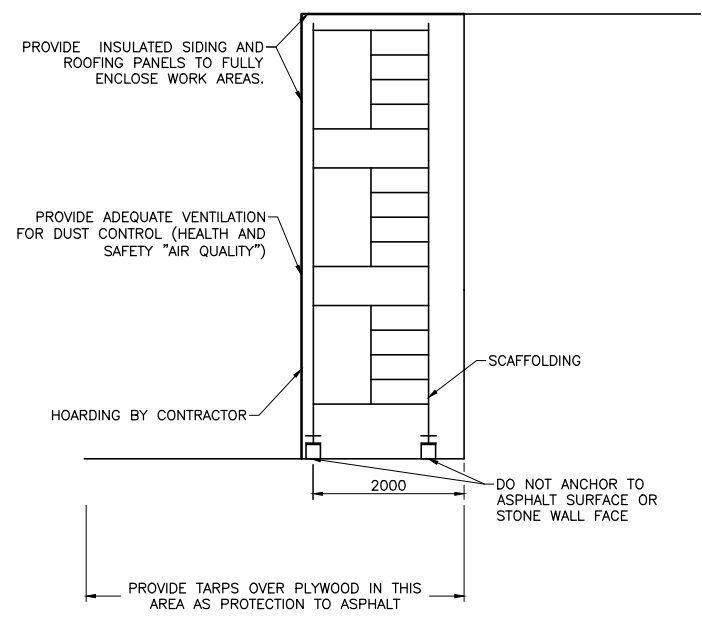
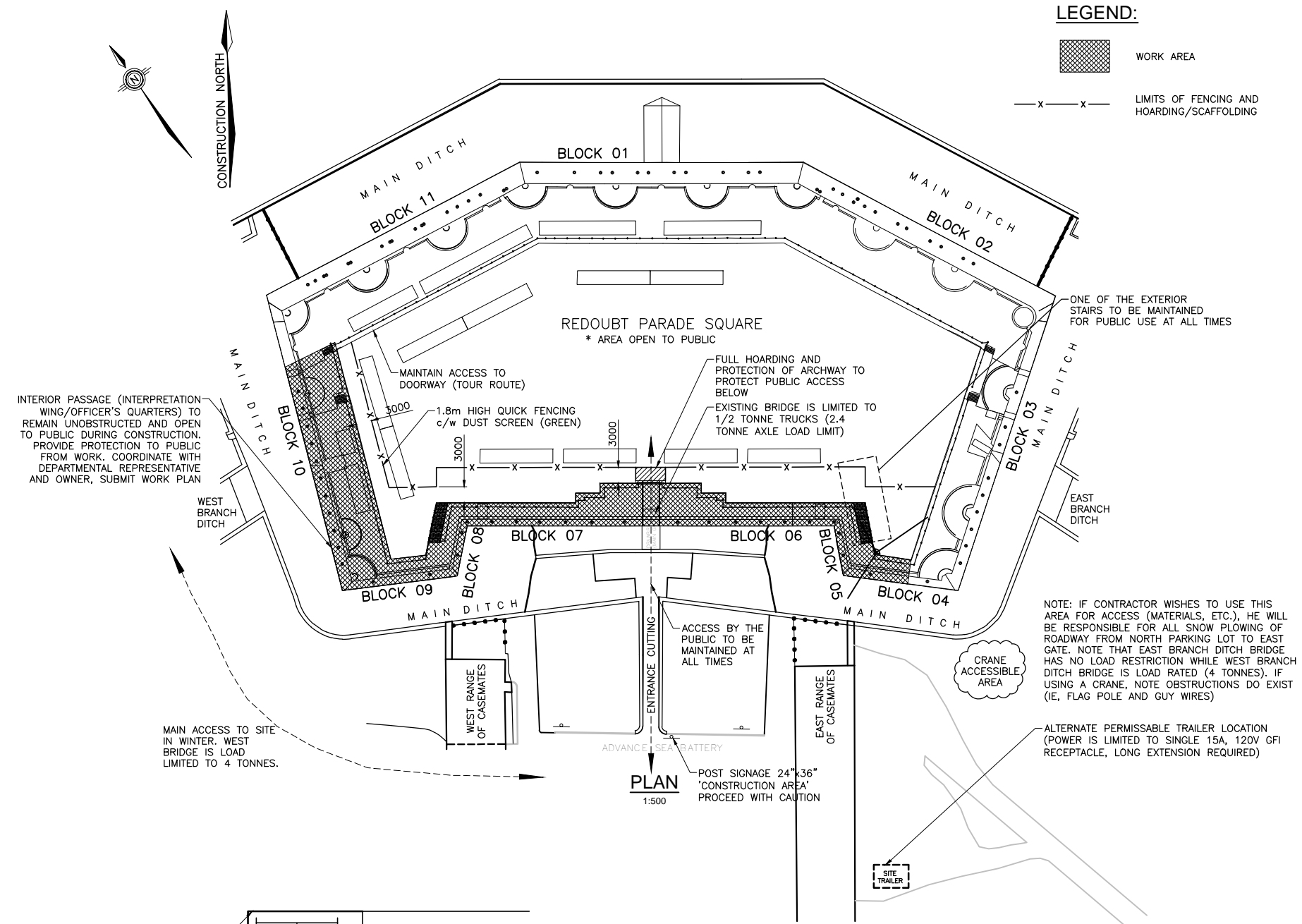
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D.A.H Date
MARCH 2015

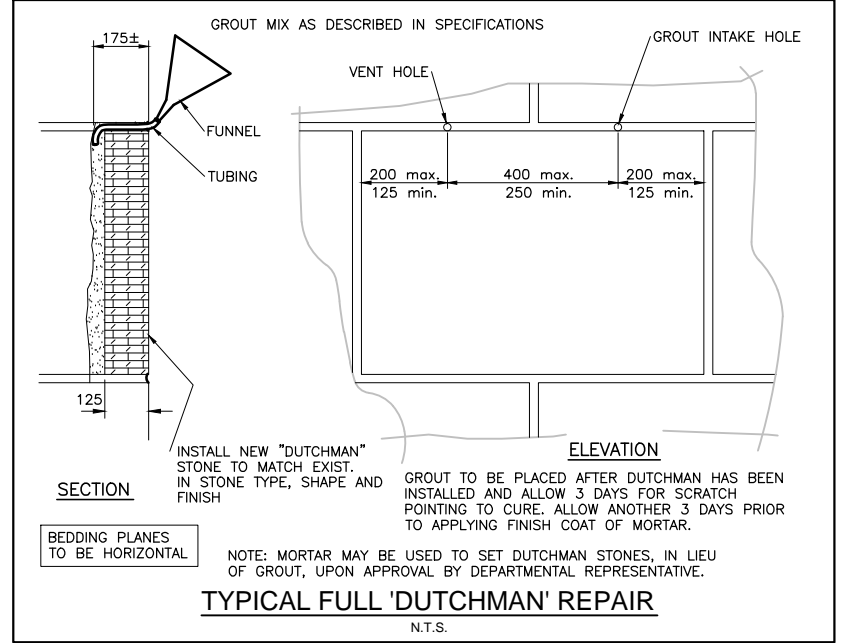
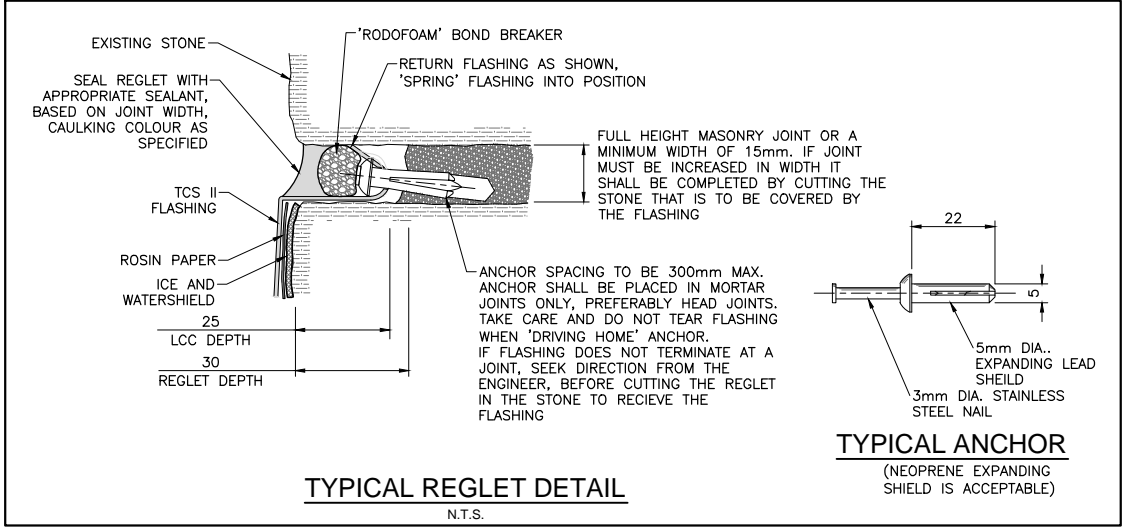
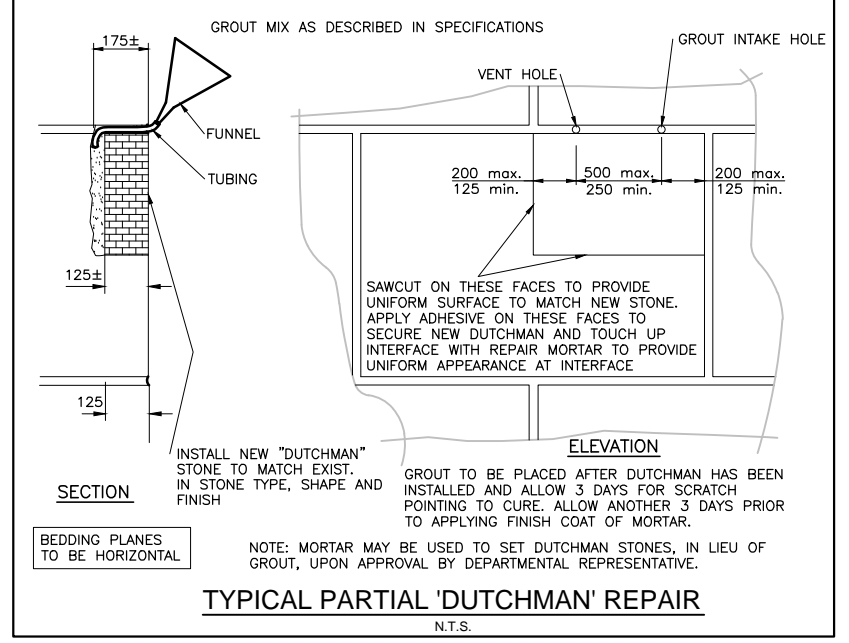
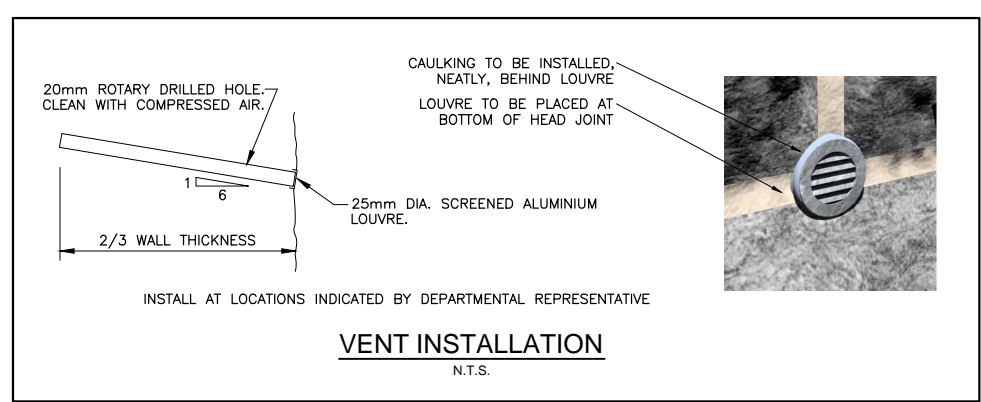
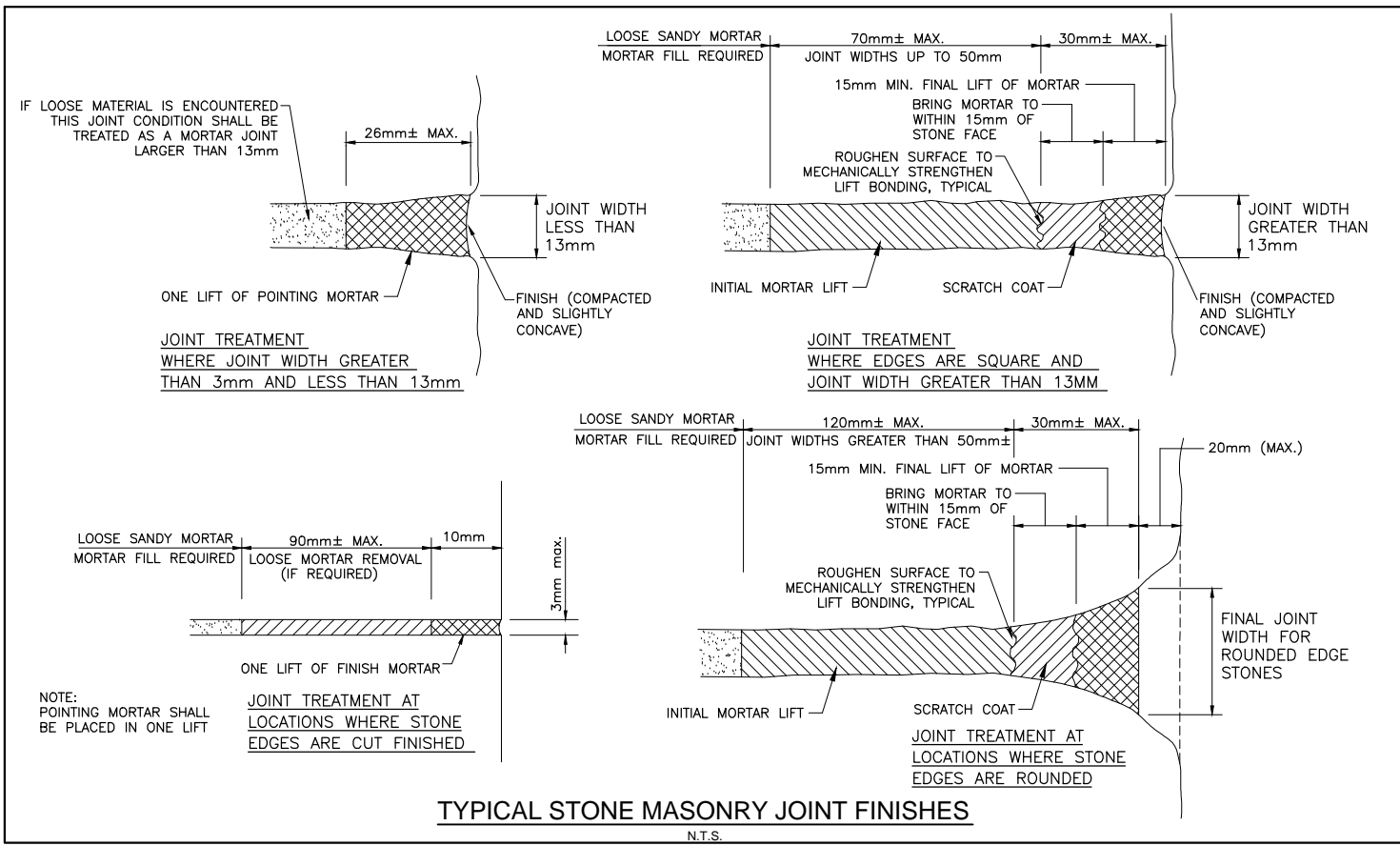
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30026566

Client No./No du Client

Sheet No./ Feuille No.
S2

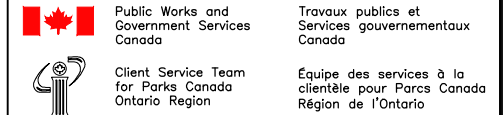




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			Dessine par	Approuvé

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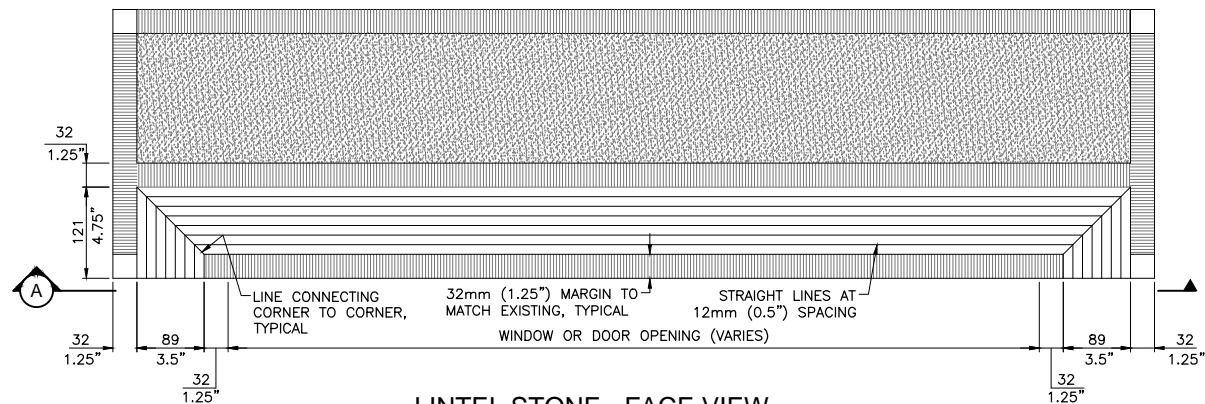
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FORT HENRY NATIONAL HISTORIC SITE OF CANADA: CURTAINWALL REVETMENT CONSERVATION
KINGSTON ONTARIO

Drawing title / Titre du dessin
MASONRY, WINDOW AND DOOR REPAIRS - MISC. MASONRY DETAILS

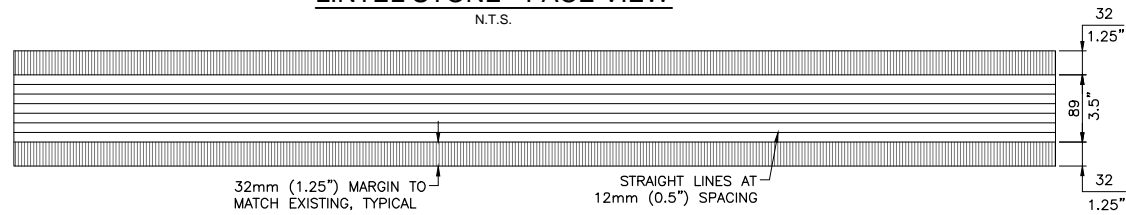
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S.M.E	MARCH 2015
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S.T.R.	MARCH 2015
Checked by/ Vérifié par	Date
D.A.H	MARCH 2015
Approved by / Approuvé par	Date

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Drawing Reference No./Numéro de Référence du Dessin		

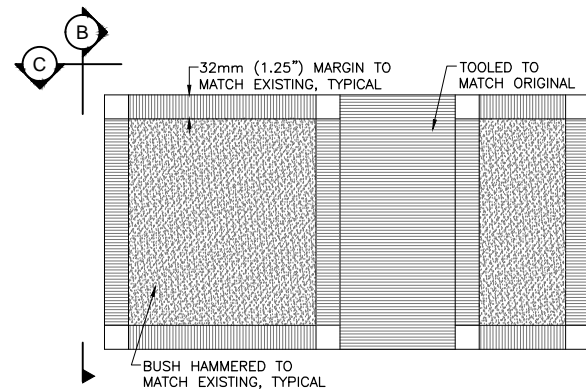
ORNAMENTAL STONE FINISHING DETAILS



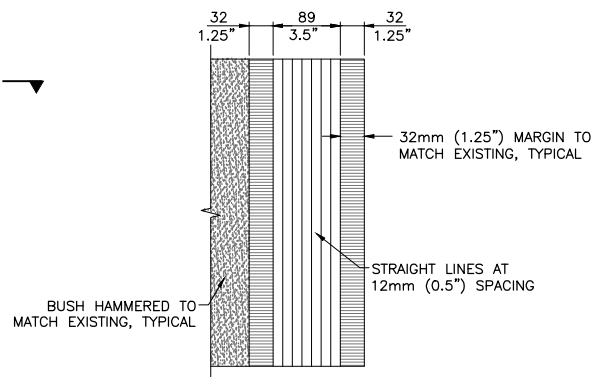
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N.T.S.



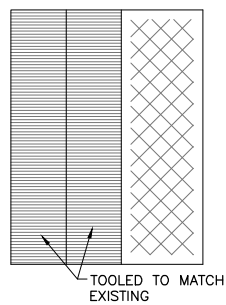
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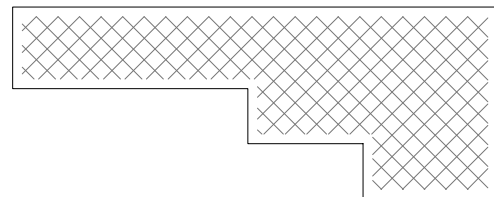
INDENTED STONE - FACE VIEW
N.T.S.



WINDOW AND DOOR BORDER STONE - FACE VIEW
N.T.S.



SECTION
N.T.S.



PLAN
N.T.S.

NOTES:

- ALSO SEE PHOTO VIEWS
- ALL DIMENSIONS SHOWN ARE IN MILLEMETERS UNLESS OTHERWISE NOTED.
- STONE GEOMETRY AND/OR DETAILS MAY CHANGE FROM THAT SHOWN ABOVE AS DIRECTED BY THE DEPARTMENTAL REPRESENTATIVE.
- THE DRAWINGS ABOVE ARE FOR GENERAL DIMENSIONS DETAILS AND GEOMETRY, ACTUAL REPLACEMENT STONES WILL BE IDENTIFIED BY THE DEPARTMENTAL REPRESENTATIVE ON SITE.
- ALL STONE DETAILS SHALL BE ILLUSTRATED WITH A MOCK-UP STONE AND MUST BE APPROVED BY THE DEPARTMENTAL REPRESENTATIVE PRIOR TO PRODUCTION OF REMAINING REPLACEMENTS. (THE MOCK-UP STONE, IF APPROVED, MAY BE USED AS A REPLACEMENT STONE).
- SCORE ALL SAWN FACES WHICH ARE IN CONTACT WITH MORTAR, AS SPECIFIED.
- MATCH EXISTING BUSH-HAMMER FINISH BOTH IN NUMBER OF POINTS AND PRESSURE USED TO CREATE FINISH.

NOTES:

- ALL ORNAMENTAL STONE DETAILS, SHOWN ON THIS DRAWING, MUST BE VERIFIED ON SITE BY CONTRACTOR.
- SEE NOTES ON S1 AND S2.



3	APR 15	ISSUED FOR TENDER	S.M.E	S.T.R
2	MAR 15	FOR 99% REVIEW	S.M.E	S.T.R.
1	JAN 15	FOR 66% REVIEW	S.M.E	S.T.R.
No.	Date	Description	Drawn by Dessine par	Approved Approuvé

Revision / Révision



A Detail number
No. du détail
B Location dwg. no.
No. sur dessin
C Drawing sheet no.
No. du dessin

Client Acceptance / Acceptation du client
Signature _____ Date _____
File No./No. de dossier _____

Public Works and Government Services Canada
Travaux publics et Services gouvernementaux Canada
Client Service Team for Parks Canada Ontario Region
Équipe des services à la clientèle pour Parcs Canada Région de l'Ontario



André Scheinman
HERITAGE PRESERVATION CONSULTANT

Project title / Titre du projet

FORT HENRY NATIONAL HISTORIC SITE OF CANADA: CURTAINWALL REVETMENT CONSERVATION

KINGSTON ONTARIO

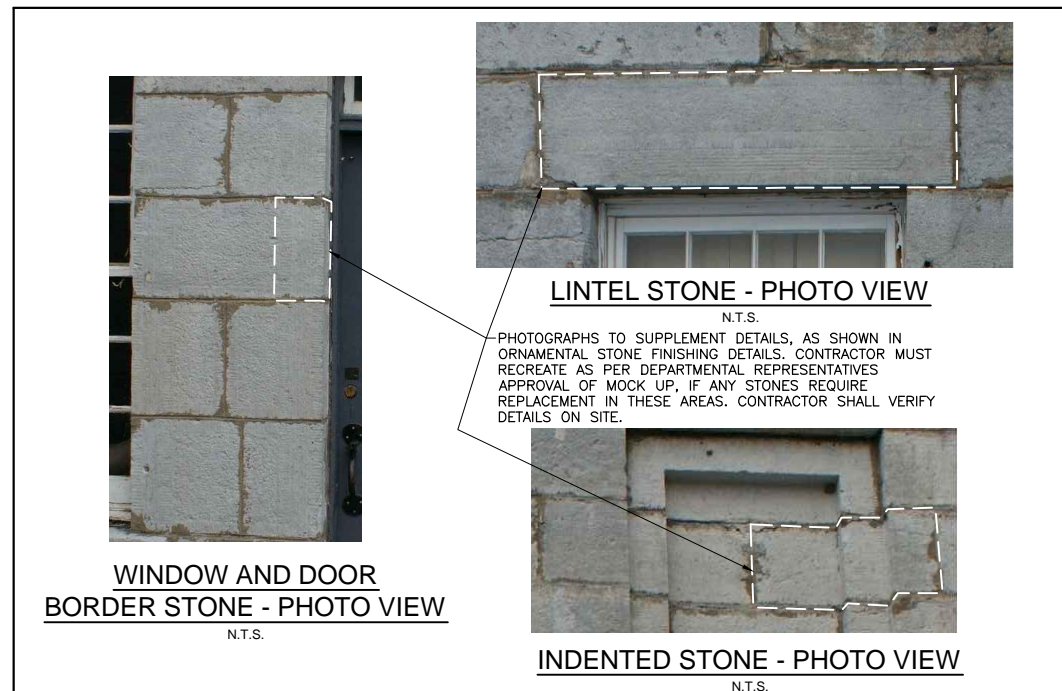
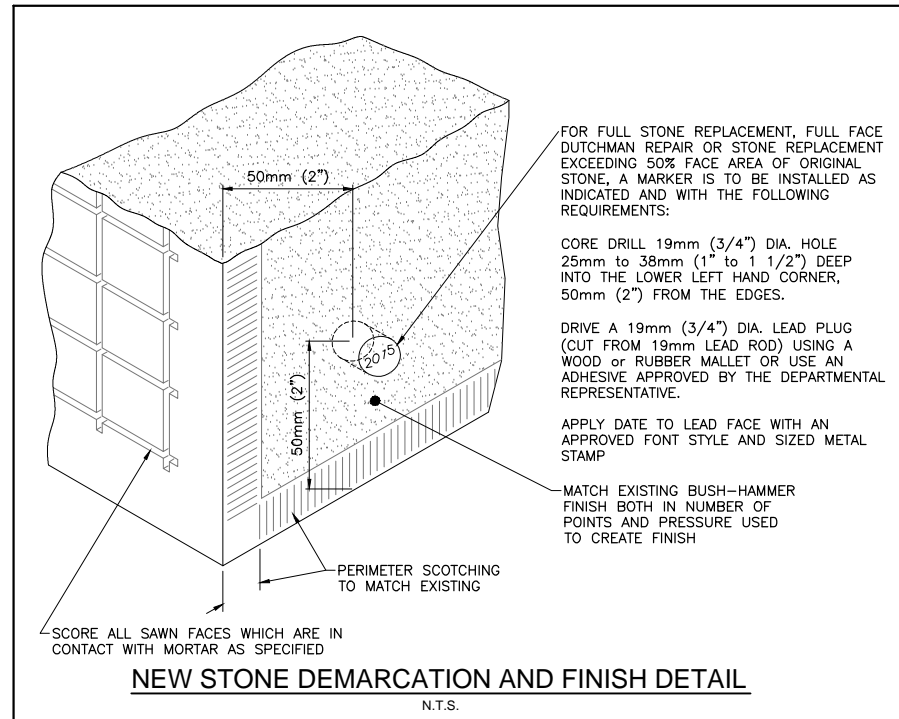
Drawing title / Titre du dessin

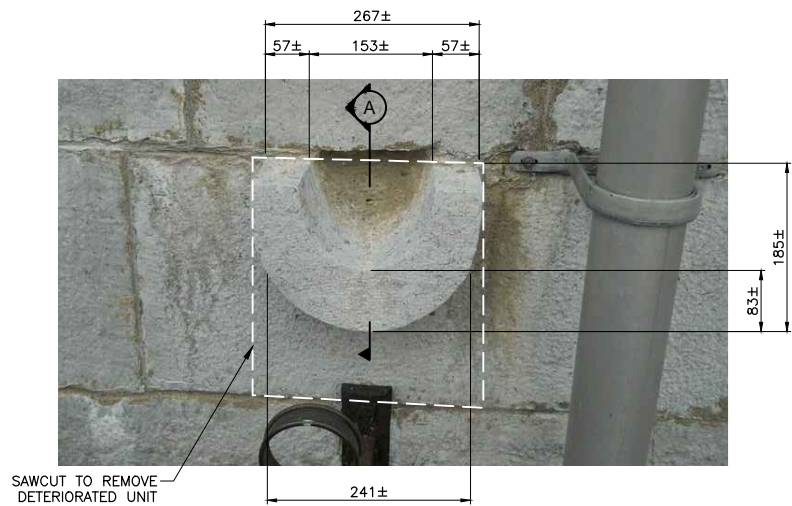
MASONRY, WINDOW AND DOOR REPAIRS – MISC. MASONRY DETAILS CON'T

Scale / Échelle
NOT TO SCALE

Drawn by/ Dessiné par	Date
S.M.E	MARCH 2015
Designed by/ Conçu par	Date
S.T.R.	MARCH 2015
Checked by/ Vérifié par	Date
D.A.H	MARCH 2015
Approved by / Approuvé par	Date

Project No./No. du projet 30026566	Client No./No du Client	Sheet No./ Feuille No. S4
Drawing Reference No./Numéro de Référence du Dessin		





PHOTOGRAPHIC EXAMPLE OF A COMPLETE SCUPPER

N.T.S.
NOTE: PHOTO SHOWN IS FOR DIMENSIONAL PURPOSES ONLY, CONTRACTOR TO CONFIRM ALL DIMENSIONS PRIOR TO FABRICATION.

OCTAGON PVC ELECTRICAL BOX LOCATION c/w NEW CEILING MOUNT LIGHT FIXTURE TO MATCH BLOCK 03/EAST CASEMATES FOR BLOCK 9 INTERIOR LIGHTING

SURFACE RUN ELECTRICAL CIRCUIT SHALL BE PLACED IN WHITE CONDUIT TO "BLEND IN" WITH CEILING COLOUR

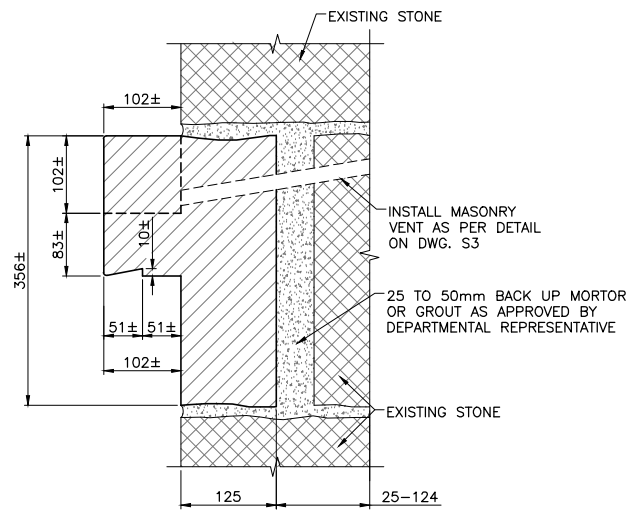


MASONRY JOINT SHALL BE CHIPPED TO ALLOW NECESSARY INTERIOR ELECTRICAL WIRE TO BE RUN THROUGH MASONRY JOINT. COVER UPON COMPLETION OF ELECTRICAL WORK WITH SPECIAL MASONRY JOINT FINISH SEALANT.

LOCATION FOR NEW PVC ELECTRICAL BOX AND SWITCHES

BLOCK 9 (D1) INTERIOR ELECTRICAL

N.T.S.



(A) SECTION
N.T.S.

NOTE: CONTRACTOR SHALL VERIFY ALL EXISTING DIMENSIONS AND FINISHING DETAILS PRIOR TO FABRICATION

SCOPE OF WORK:

- INSTALL ALL NECESSARY SCAFFOLDING, HOARDING, ETC. AS REQUIRED TO ACCESS COMPLETE EXTERIOR OF THE WALL (SEE DRAWING S2).
- REPLACE STONE SCUPPER WITH DUTCHMAN TO MATCH EXISTING.
- INSTALL NEW ELECTRICAL FEEDS AS SHOWN. ALL ELECTRICAL WORKS SHALL BE DONE BY A QUALIFIED ELECTRICIAN AND SHALL CONFORM WITH ALL APPLICABLE ELECTRICAL STANDARDS AND/OR ELECTRICAL CODES.
- ALL ELECTRICAL WORK SHALL BE CONFIRMED BY ELECTRICAL ESA INSPECTOR PRIOR TO INSTALLATION.
- ALL ELECTRICAL FEEDS SHALL BE MINERAL INSULATED CABLE OR ANY OTHER CABLE ACCEPTABLE TO THE ESA, INSTALLED AT A MINIMUM DEPTH OF 50mm BELOW FINISHED MASONRY JOINT, OR AS APPROVED OTHERWISE BY THE ELECTRICAL ESA INSPECTOR.
- CLEANUP AND RESTORE FEATURES, DISTURBED BY THIS WORK, TO ORIGINAL CONDITION OR BETTER.

NOTES:

- SEE NOTES ON S1 AND S2.



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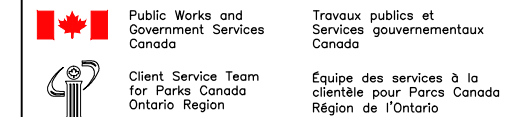
Revision / Révision



A Detail number
No. du détail
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No. sur dessin
C Drawing sheet no.
No. du dessin



Client Acceptance / Acception du client
Signature _____ Date _____
File No./No. de dossier _____



Canada



Project title / Titre du projet

FORT HENRY NATIONAL HISTORIC SITE OF CANADA: CURTAINWALL REVETMENT CONSERVATION

KINGSTON ONTARIO

Drawing title / Titre du dessin

MASONRY, WINDOW AND DOOR REPAIRS – MISC. MASONRY AND ELECTRICAL

Scale / Échelle
NOT TO SCALE

Drawn by/ Dessiné par	Date
S.M.E	MARCH 2015
Designed by/ Conçu par	Date
S.T.R	MARCH 2015
Checked by/ Vérifié par	Date
D.A.H	MARCH 2015
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Project No./No. du projet 30026566	Client No./No du Client	Sheet No./ Feuille No. S5
Drawing Reference No./Numéro de Référence du Dessin		

ELECTRICAL SUPPLY, TO LAMP RECEPTACLE, SHALL BE RECESSED MINIMUM 50mm INTO MASONRY JOINT AS SHOWN c/w SPECIAL MASONRY JOINT FINISH SEALANT TO COVER ELECTRICAL WIRE. CHIP AND REPOINT AS REQUIRED

CAREFULLY DISMANTLE, TURN OVER TO OWNER FOR REPAIRS TO BE COMPLETED (BY OTHERS) AND RE-INSTALL AFTER MASONRY REPAIRS ARE COMPLETED



EXISTING BLOCK 10 - LAMP EXTERIOR

N.T.S.



EXISTING BLOCK 10 - LAMP EXTERIOR

N.T.S.

RECESS EXISTING ELECTRICAL WIRE LINE FEED INTO MASONRY JOINT AND COVER WITH SPECIAL MASONRY JOINT FINISH SEALANT.

REMOVE AND REPLACE EXISTING ELECTRICAL CIRCUIT c/w SPECIAL MASONRY JOINT FINISH SEALANT



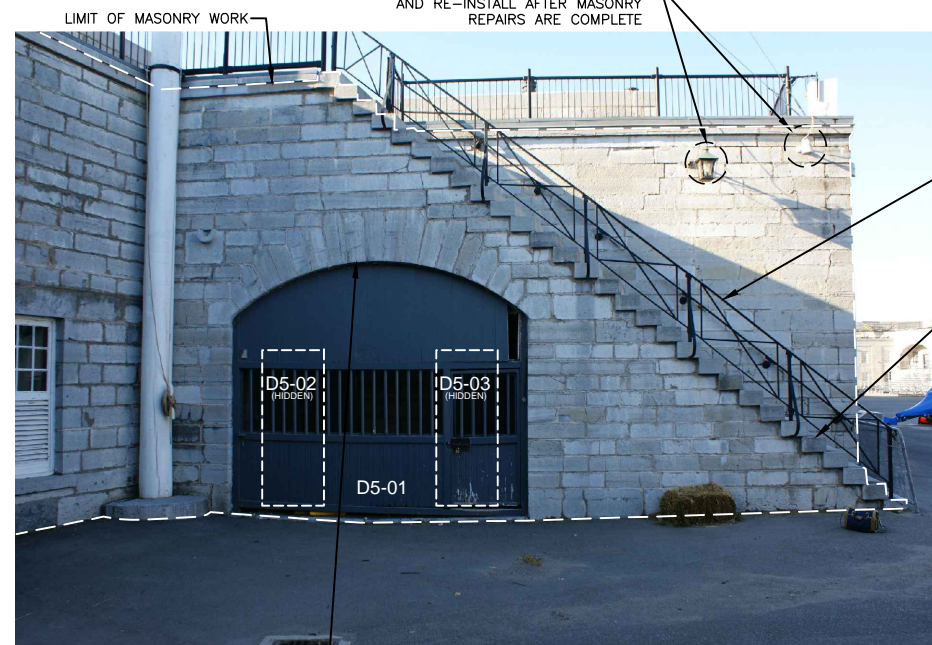
EXISTING BLOCK 9 - LAMP EXTERIOR

N.T.S.

CURRENT RECEPTACLE IS NOT FUNCTIONING. REPLACE WITH DEEP PVC RECEPTACLE BOX, SHALL BE USED AS CIRCUIT JUNCTION LOCATION FOR NEW INTERIOR ELECTRICAL CIRCUITS



PHOTO 1
N.T.S.



CHIP AND REPOINT 100% OF MORTAR JOINTS WITHIN BOTH RETURNS, BACK WALL AND ARCH ROOF

PHOTO 2
N.T.S.

SCOPE OF WORK:

- INSTALL ALL NECESSARY SCAFFOLDING, HOARDING, ETC. AS REQUIRED TO ACCESS COMPLETE EXTERIOR OF THE WALL (SEE DRAWING S2).
- REPOINT 100% OF ALL EXTERIOR JOINTS WITHIN THE LIMITS INDICATED. APPLY SPECIAL MASONRY JOINT FINISH SEALANT AS FINISH POINTING TO SKYWARD FACING MASONRY AND TO CRACKS IN WINDOW SILLS (SEE DRAWING S3). FOR CRACKS IN WINDOW SILLS, ROUT CRACK TO A MINIMUM WIDTH OF 6mm IN ORDER TO PROPERLY APPLY SEALANT.
- REPAIR OR REPLACE STONE UNITS AS DIRECTED BY THE DEPARTMENTAL REPRESENTATIVE (SEE DRAWINGS S3 AND S4). REFER TO PRICE TABLE FOR ESTIMATED QUANTITIES OF REPLACEMENT.
- COMPLETE REPAIRS TO WINDOW AND DOOR UNITS (SEE DRAWINGS S17 TO S21).
- CLEANUP AND RESTORE FEATURES, DISTURBED BY THIS WORK, TO ORIGINAL CONDITION OR BETTER.

NOTES:

- SEE NOTES ON S1 AND S2.

LEGEND

- PATCH REPAIR
- PARTIAL DUTCHMAN REPAIR
- FULL DUTCHMAN REPAIR
- CRACK REPAIR
- NEW LOUVERED VENT
- CORRODING INSERT REMOVAL

NOTES:

- NOTED STONES FOR FULL REPLACEMENT OR FOR FULL DUTCHMAN REPAIR INDICATE STONES THAT WILL LIKELY REQUIRE REPAIR BUT MUST BE CONFIRMED BY THE DEPARTMENTAL REPRESENTATIVE AFTER ACCESS IS IN PLACE AND JOINT REMOVAL HAS BEEN COMPLETED.
- NOTE THAT OTHER STONES FOR THESE TYPES OF REPAIRS MAY BE IDENTIFIED AND ARE TO BE REPAIRED AT THE RELEVANT UNIT PRICES OF THE CONTRACT AS DIRECTED BY THE DEPARTMENTAL REPRESENTATIVE.



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No. du dessin



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Signature _____ Date _____
File No./No. de dossier _____

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

Client Service Team for Parks Canada Ontario Region / Équipe des services à la clientèle pour Parcs Canada Région de l'Ontario



Project title / Titre du projet

FORT HENRY NATIONAL HISTORIC SITE OF CANADA: CURTAINWALL REVETMENT CONSERVATION

KINGSTON ONTARIO

Drawing title / Titre du dessin

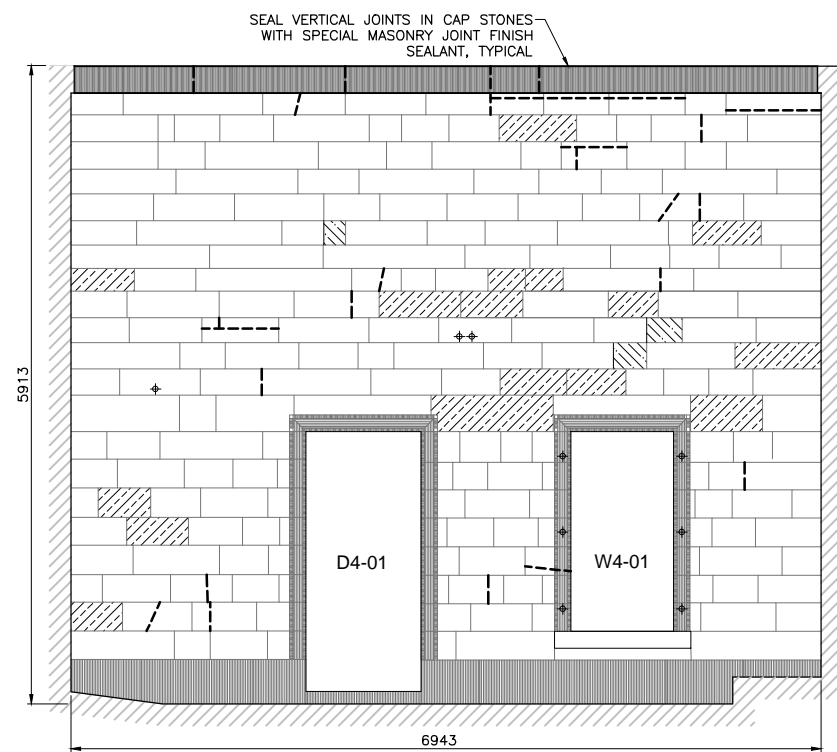
MASONRY, WINDOW AND DOOR REPAIRS – BLOCKS 4 AND 5 REPAIR AREAS, PHOTOS 1 AND 2

Scale / Échelle
NOT TO SCALE

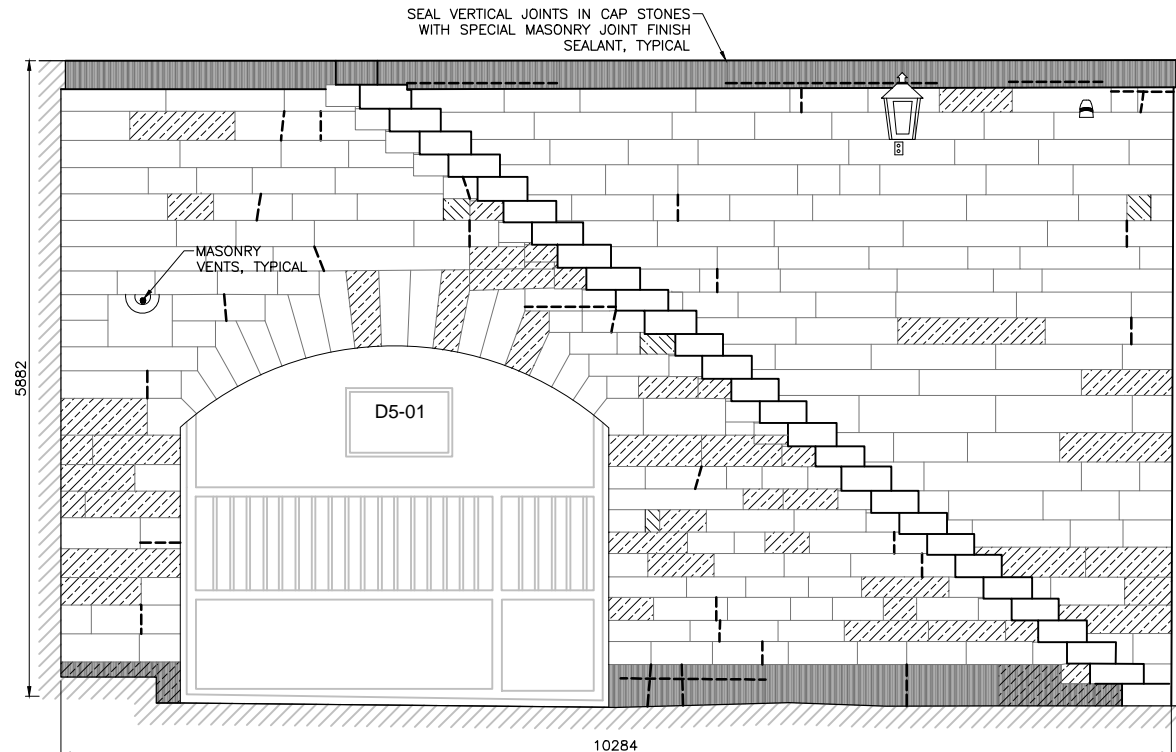
Drawn by/ Dessiné par	Date
S.M.E	MARCH 2015
Designed by/ Conçu par	Date
S.T.R	MARCH 2015
Checked by/ Vérifié par	Date
D.A.H	MARCH 2015
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Project No./No. du projet	Client No./No du Client	Sheet No./ Feuille No.
30026566		S6

Drawing Reference No./Numéro de Référence du Dessin



BLOCK 04 ELEVATION
WINDOW W4-01, DOOR D4-01
N.T.S.



BLOCK 05 ELEVATION
DOOR D5-01
N.T.S.

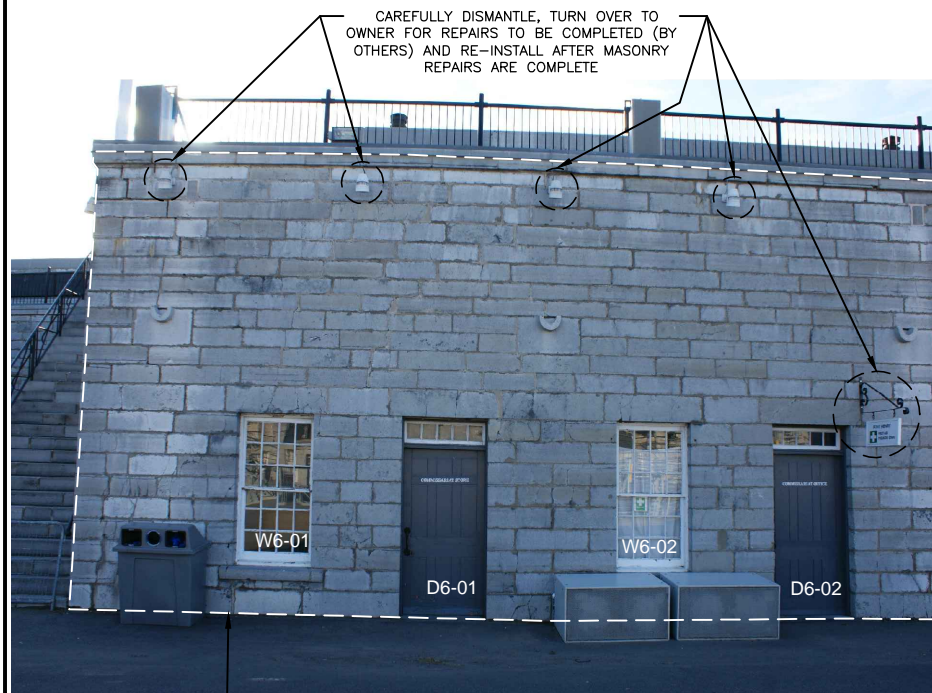


PHOTO 3
N.T.S.

CAREFULLY DISMANTLE, TURN OVER TO OWNER FOR REPAIRS TO BE COMPLETED (BY OTHERS) AND RE-INSTALL AFTER MASONRY REPAIRS ARE COMPLETE



PHOTO 4
N.T.S.

SCOPE OF WORK:

- INSTALL ALL NECESSARY SCAFFOLDING, HOARDING, ETC. AS REQUIRED TO ACCESS COMPLETE EXTERIOR OF THE WALL (SEE DRAWING S2).
- REPOINT 100% OF ALL EXTERIOR JOINTS WITHIN THE LIMITS INDICATED. APPLY SPECIAL MASONRY JOINT FINISH SEALANT AS FINISH POINTING TO SKYWARD FACING MASONRY AND TO CRACKS IN WINDOW SILLS (SEE DRAWING S3). FOR CRACKS IN WINDOW SILLS, ROUT CRACK TO A MINIMUM WIDTH OF 6mm IN ORDER TO PROPERLY APPLY SEALANT.
- REPAIR OR REPLACE STONE UNITS AS DIRECTED BY THE DEPARTMENTAL REPRESENTATIVE (SEE DRAWINGS S3 AND S4). REFER TO PRICE TABLE FOR ESTIMATED QUANTITIES OF REPLACEMENT.
- COMPLETE REPAIRS TO WINDOW AND DOOR UNITS (SEE DRAWINGS S17 TO S21).
- CLEANUP AND RESTORE FEATURES, DISTURBED BY THIS WORK, TO ORIGINAL CONDITION OR BETTER.

NOTES:

- SEE NOTES ON S1 AND S2.

LEGEND

- PATCH REPAIR
- PARTIAL DUTCHMAN REPAIR
- FULL DUTCHMAN REPAIR
- CRACK REPAIR
 - NEW LOUVERED VENT
 - + CORRODING INSERT REMOVAL

NOTES:

1. NOTED STONES FOR FULL REPLACEMENT OR FOR FULL DUTCHMAN REPAIR INDICATE STONES THAT WILL LIKELY REQUIRE REPAIR BUT MUST BE CONFIRMED BY THE DEPARTMENTAL REPRESENTATIVE AFTER ACCESS IS IN PLACE AND JOINT REMOVAL HAS BEEN COMPLETED.
2. NOTE THAT OTHER STONES FOR THESE TYPES OF REPAIRS MAY BE IDENTIFIED AND ARE TO BE REPAIRED AT THE RELEVANT UNIT PRICES OF THE CONTRACT AS DIRECTED BY THE DEPARTMENTAL REPRESENTATIVE.



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Revision / Révision

A	Detail number No. du détail	A
B	Location dwg. no. No. sur dessin	B C
C	Drawing sheet no. No. du dessin	

Client Acceptance / Acceptation du client
Signature _____ Date _____
File No./No. de dossier _____

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

Client Service Team for Parks Canada Ontario Region / Équipe des services à la clientèle pour Parcs Canada Région de l'Ontario



André Scheinman
HERITAGE PRESERVATION CONSULTANT

Project title / Titre du projet

FORT HENRY NATIONAL HISTORIC SITE OF CANADA: CURTAINWALL REVETMENT CONSERVATION

KINGSTON ONTARIO

Drawing title / Titre du dessin

MASONRY, WINDOW AND DOOR REPAIRS – BLOCK 6 REPAIR AREAS, PHOTOS 3 AND 4

Scale / Échelle
NOT TO SCALE

Drawn by/ Dessiné par
S.M.E Date
MARCH 2015

Designed by/ Conçu par
S.T.R Date
MARCH 2015

Checked by/ Vérifié par
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MARCH 2015

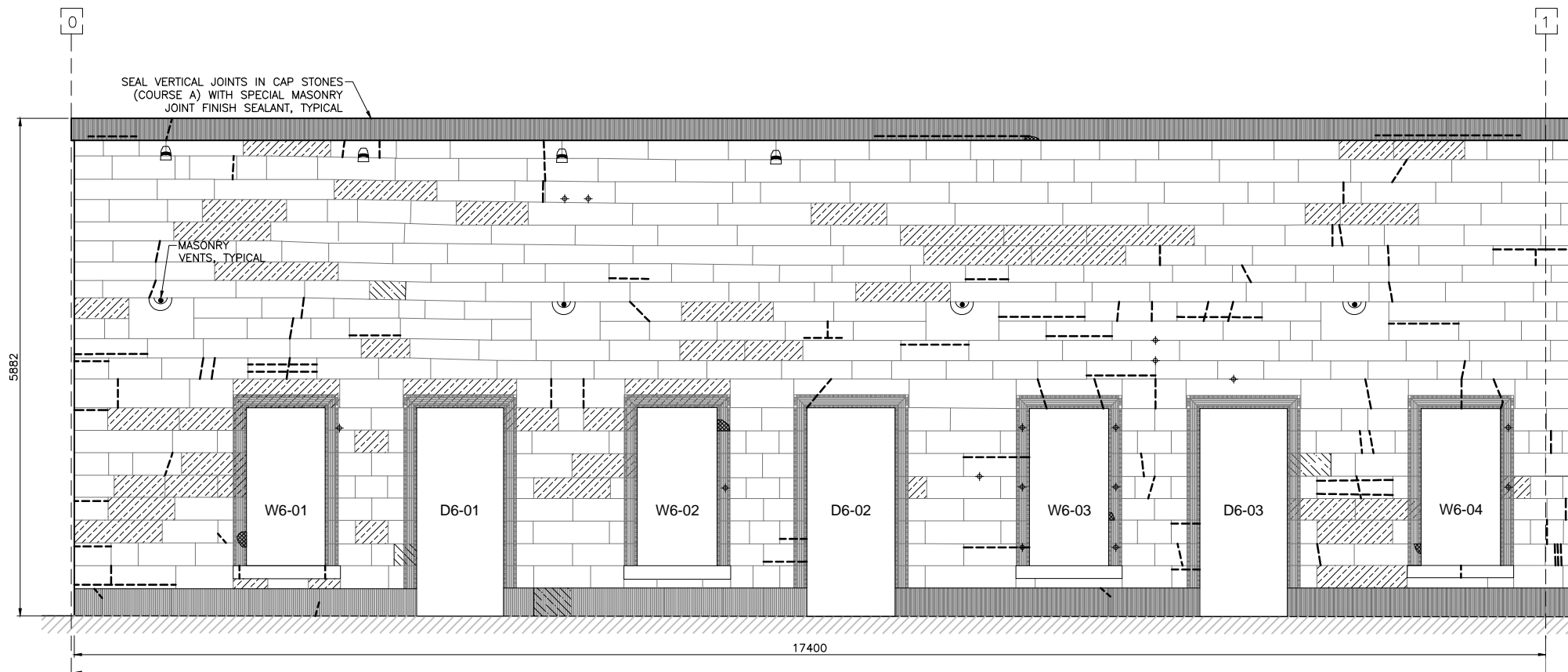
Approved by / Approuvé par
Date

Project No./No. du projet
30026566

Client No./No du Client

Sheet No./
Feuille No.
S7

Drawing Reference No./Numéro de Référence du Dessin



BLOCK 06 ELEVATION
WINDOW W6-01 TO 04, DOOR D6-01 TO 03
N.T.S.



PHOTO 5
N.T.S.

BAR GRILL ANCHORAGES TO BE REMOVED, MASONRY REPAIRED AND BAR GRILLS RE-INSTALLED WITH NEW STAINLESS ANCHORAGES

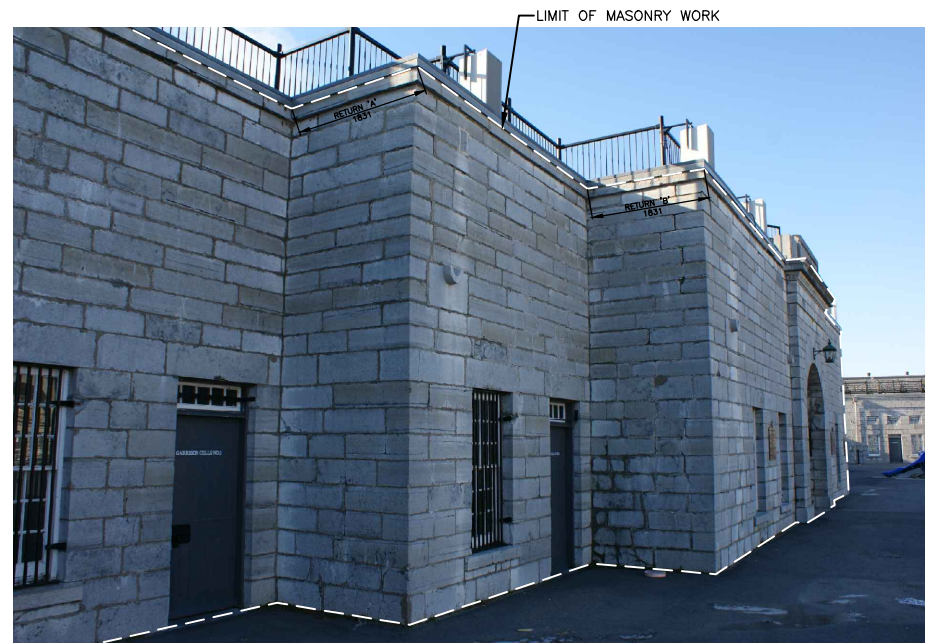


PHOTO 6
N.T.S.

SCOPE OF WORK:

- INSTALL ALL NECESSARY SCAFFOLDING, HOARDING, ETC. AS REQUIRED TO ACCESS COMPLETE EXTERIOR OF THE WALL (SEE DRAWING S2).
- REPOINT 100% OF ALL EXTERIOR JOINTS WITHIN THE LIMITS INDICATED. APPLY SPECIAL MASONRY JOINT FINISH SEALANT AS FINISH POINTING TO SKYWARD FACING MASONRY AND TO CRACKS IN WINDOW SILLS (SEE DRAWING S3). FOR CRACKS IN WINDOW SILLS, ROUT CRACK TO A MINIMUM WIDTH OF 6mm IN ORDER TO PROPERLY APPLY SEALANT.
- REPAIR OR REPLACE STONE UNITS AS DIRECTED BY THE DEPARTMENTAL REPRESENTATIVE (SEE DRAWINGS S3 AND S4). REFER TO PRICE TABLE FOR ESTIMATED QUANTITIES OF REPLACEMENT.
- COMPLETE REPAIRS TO WINDOW AND DOOR UNITS (SEE DRAWINGS S17 TO S21).
- CLEANUP AND RESTORE FEATURES, DISTURBED BY THIS WORK, TO ORIGINAL CONDITION OR BETTER.

NOTES:

- SEE NOTES ON S1 AND S2.

LEGEND

- PATCH REPAIR
- PARTIAL DUTCHMAN REPAIR
- FULL DUTCHMAN REPAIR
- CRACK REPAIR
 - NEW LOUVERED VENT
 - + CORRODING INSERT REMOVAL

NOTES:

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



André Scheinman
HERITAGE PRESERVATION CONSULTANT

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FORT HENRY NATIONAL HISTORIC SITE OF CANADA: CURTAINWALL REVETMENT CONSERVATION

KINGSTON ONTARIO

Drawing title / Titre du dessin

MASONRY, WINDOW AND DOOR REPAIRS – BLOCK 6 REPAIR AREAS, PHOTOS 5 AND 6

Scale / Échelle
NOT TO SCALE

Drawn by/ Dessiné par
S.M.E Date
MARCH 2015

Designed by/ Conçu par
S.T.R Date
MARCH 2015

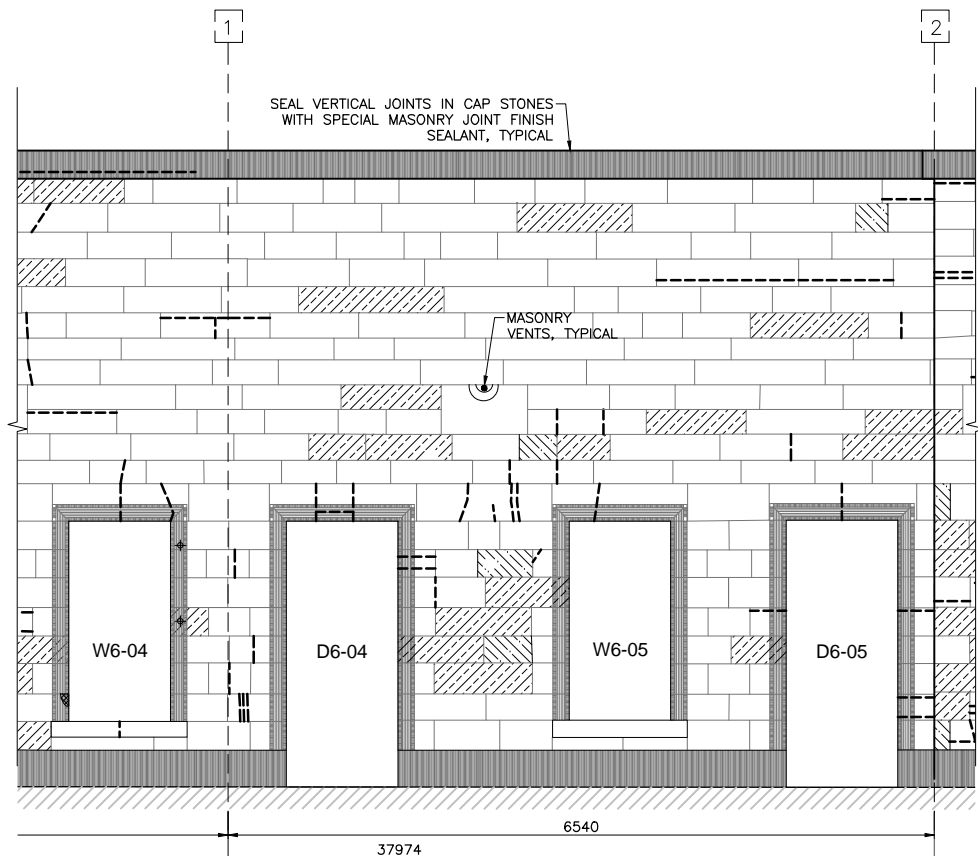
Checked by/ Vérifié par
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MARCH 2015

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Date

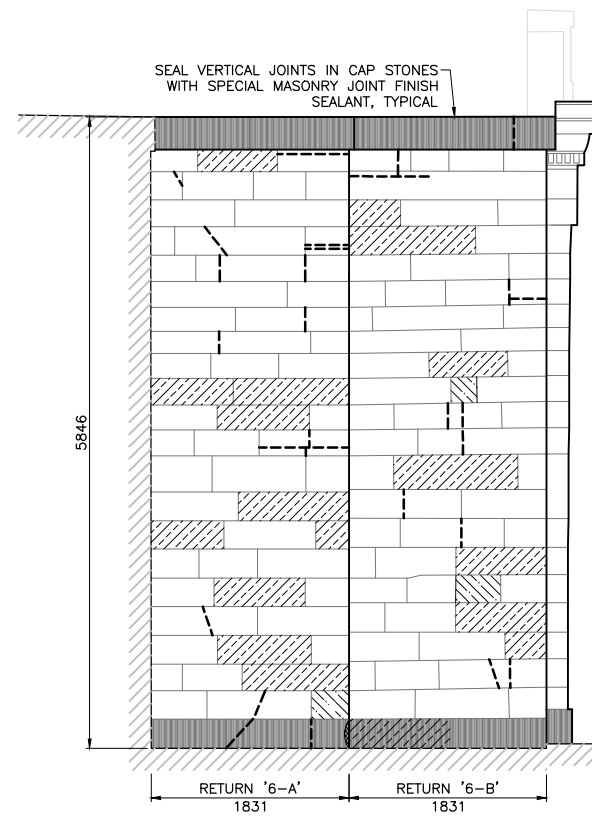
Project No./No. du projet
30026566 Client No./No du Client

Drawing Reference No./Numéro de Référence du Dessin

Sheet No./
Feuille No.
S8



**BLOCK 06 ELEVATION
WINDOW W6-05
DOOR D6-04 TO 05**
N.T.S.



**BLOCK 06 ELEVATION
RETURNS**
N.T.S.



PHOTO 7
N.T.S.

BAR GRILL ANCHORAGES TO BE REMOVED, MASONRY REPAIRED AND BAR GRILLS RE-INSTALLED WITH NEW STAINLESS ANCHORAGES



PHOTO 8
N.T.S.

CAREFULLY DISMANTLE, TURN OVER TO OWNER FOR REPAIRS TO BE COMPLETED (BY OTHERS) AND RE-INSTALL AFTER MASONRY REPAIRS ARE COMPLETE

SCOPE OF WORK:

- INSTALL ALL NECESSARY SCAFFOLDING, HOARDING, ETC. AS REQUIRED TO ACCESS COMPLETE EXTERIOR OF THE WALL (SEE DRAWING S2).
- REPOINT 100% OF ALL EXTERIOR JOINTS WITHIN THE LIMITS INDICATED. APPLY SPECIAL MASONRY JOINT FINISH SEALANT AS FINISH POINTING TO SKYWARD FACING MASONRY AND TO CRACKS IN WINDOW SILLS (SEE DRAWING S3). FOR CRACKS IN WINDOW SILLS, ROUT CRACK TO A MINIMUM WIDTH OF 6mm IN ORDER TO PROPERLY APPLY SEALANT.
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- COMPLETE REPAIRS TO WINDOW AND DOOR UNITS (SEE DRAWINGS S17 TO S21).
- CLEANUP AND RESTORE FEATURES, DISTURBED BY THIS WORK, TO ORIGINAL CONDITION OR BETTER.

NOTES:

- SEE NOTES ON S1 AND S2.

LEGEND

- PATCH REPAIR
- PARTIAL DUTCHMAN REPAIR
- FULL DUTCHMAN REPAIR
- CRACK REPAIR
- NEW LOUVERED VENT
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NOTES:

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Public Works and
Government Services
Canada

Travaux publics et
Services gouvernementaux
Canada



Client Service Team
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Ontario Region

Équipe des services à la
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Région de l'Ontario

Canada



André Scheinman
HERITAGE PRESERVATION CONSULTANT

Project title / Titre du projet

**FORT HENRY NATIONAL
HISTORIC SITE OF CANADA:
CURTAINWALL REVETMENT
CONSERVATION**

KINGSTON

ONTARIO

Drawing title / Titre du dessin

**MASONRY, WINDOW AND DOOR
REPAIRS – BLOCK 6
REPAIR AREAS, PHOTOS 7 AND 8**

Scale / Échelle

NOT TO SCALE

Drawn by/ Dessiné par
S.M.E Date
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MARCH 2015

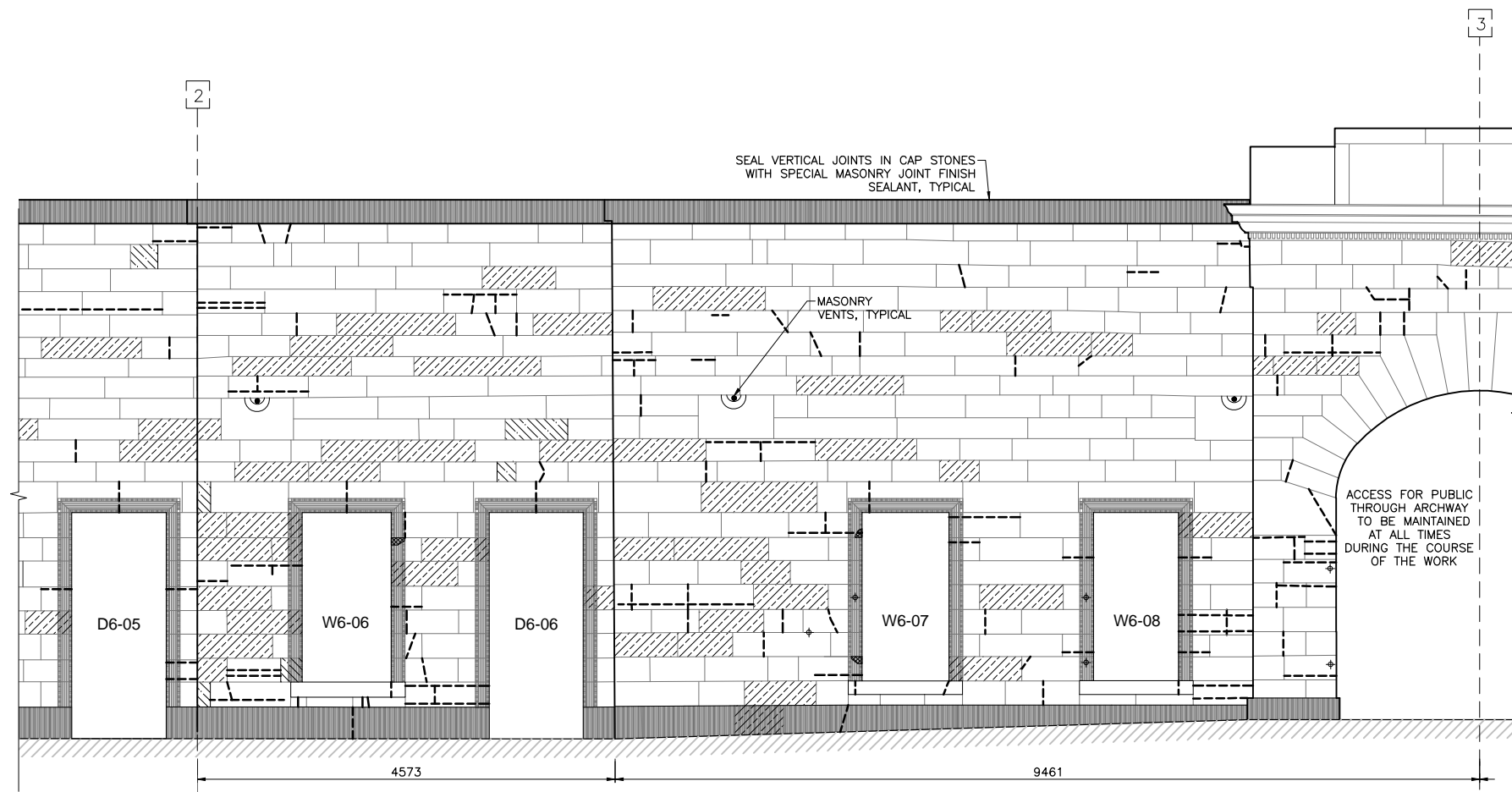
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Feuille No.

Drawing Reference No./Numéro de Référence du Dessin

S9



BLOCK 06 ELEVATION
WINDOW W6-06 TO 08, DOOR D6-06
N.T.S.

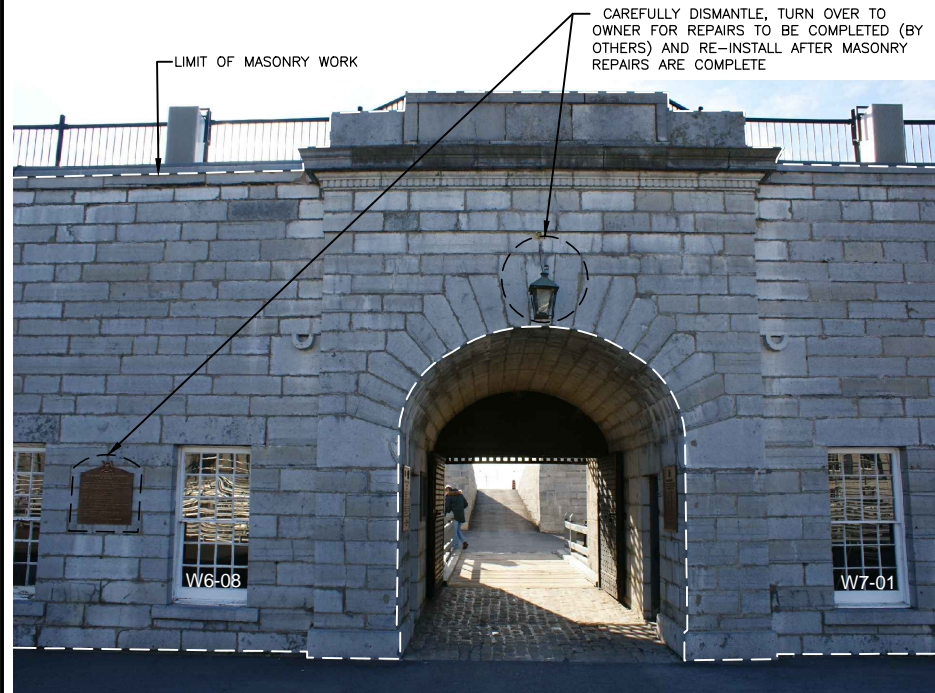


PHOTO 9
N.T.S.



PHOTO 10
N.T.S.

SCOPE OF WORK:

- INSTALL ALL NECESSARY SCAFFOLDING, HOARDING, ETC. AS REQUIRED TO ACCESS COMPLETE EXTERIOR OF THE WALL (SEE DRAWING S2).
- REPOINT 100% OF ALL EXTERIOR JOINTS WITHIN THE LIMITS INDICATED. APPLY SPECIAL MASONRY JOINT FINISH SEALANT AS FINISH POINTING TO SKYWARD FACING MASONRY AND TO CRACKS IN WINDOW SILLS (SEE DRAWING S3). FOR CRACKS IN WINDOW SILLS, ROUT CRACK TO A MINIMUM WIDTH OF 6mm IN ORDER TO PROPERLY APPLY SEALANT.
- REPAIR OR REPLACE STONE UNITS AS DIRECTED BY THE DEPARTMENTAL REPRESENTATIVE (SEE DRAWINGS S3 AND S4). REFER TO PRICE TABLE FOR ESTIMATED QUANTITIES OF REPLACEMENT.
- COMPLETE REPAIRS TO WINDOW AND DOOR UNITS (SEE DRAWINGS S17 TO S21).
- CLEANUP AND RESTORE FEATURES, DISTURBED BY THIS WORK, TO ORIGINAL CONDITION OR BETTER.

NOTES:

- SEE NOTES ON S1 AND S2.

LEGEND

- ▨ PATCH REPAIR
- ▨ PARTIAL DUTCHMAN REPAIR
- ▨ FULL DUTCHMAN REPAIR
- CRACK REPAIR
- NEW LOUVERED VENT
- + CORRODING INSERT REMOVAL

NOTES:

1. NOTED STONES FOR FULL REPLACEMENT OR FOR FULL DUTCHMAN REPAIR INDICATE STONES THAT WILL LIKELY REQUIRE REPAIR BUT MUST BE CONFIRMED BY THE DEPARTMENTAL REPRESENTATIVE AFTER ACCESS IS IN PLACE AND JOINT REMOVAL HAS BEEN COMPLETED.
2. NOTE THAT OTHER STONES FOR THESE TYPES OF REPAIRS MAY BE IDENTIFIED AND ARE TO BE REPAIRED AT THE RELEVANT UNIT PRICES OF THE CONTRACT AS DIRECTED BY THE DEPARTMENTAL REPRESENTATIVE.



3	APR 15	ISSUED FOR TENDER	S.M.E	S.T.R
2	MAR 15	FOR 99% REVIEW	S.M.E	S.T.R.
1	JAN 15	FOR 66% REVIEW	S.M.E	S.T.R.
No.	Date	Description	Drawn by Dessine par	Approved Approuvé

Revision / Révision



A Detail number
No. du détail
B Location dwg. no.
No. sur dessin
C Drawing sheet no.
No. du dessin



Client Acceptance / Acceptation du client
Signature _____ Date _____
File No./No. de dossier _____



Public Works and
Government Services
Canada

Travaux publics et
Services gouvernementaux
Canada



Client Service Team
for Parks Canada
Ontario Region

Équipe des services à la
clientèle pour Parcs Canada
Région de l'Ontario

Canada



André Scheinman
HERITAGE PRESERVATION CONSULTANT

Project title / Titre du projet

**FORT HENRY NATIONAL
HISTORIC SITE OF CANADA:
CURTAINWALL REVETMENT
CONSERVATION**

KINGSTON

ONTARIO

Drawing title / Titre du dessin

**MASONRY, WINDOW AND DOOR
REPAIRS – BLOCK 7
REPAIR AREAS, PHOTOS 9 AND 10**

Scale / Échelle

NOT TO SCALE

Drawn by/ Dessiné par _____ Date
S.M.E MARCH 2015

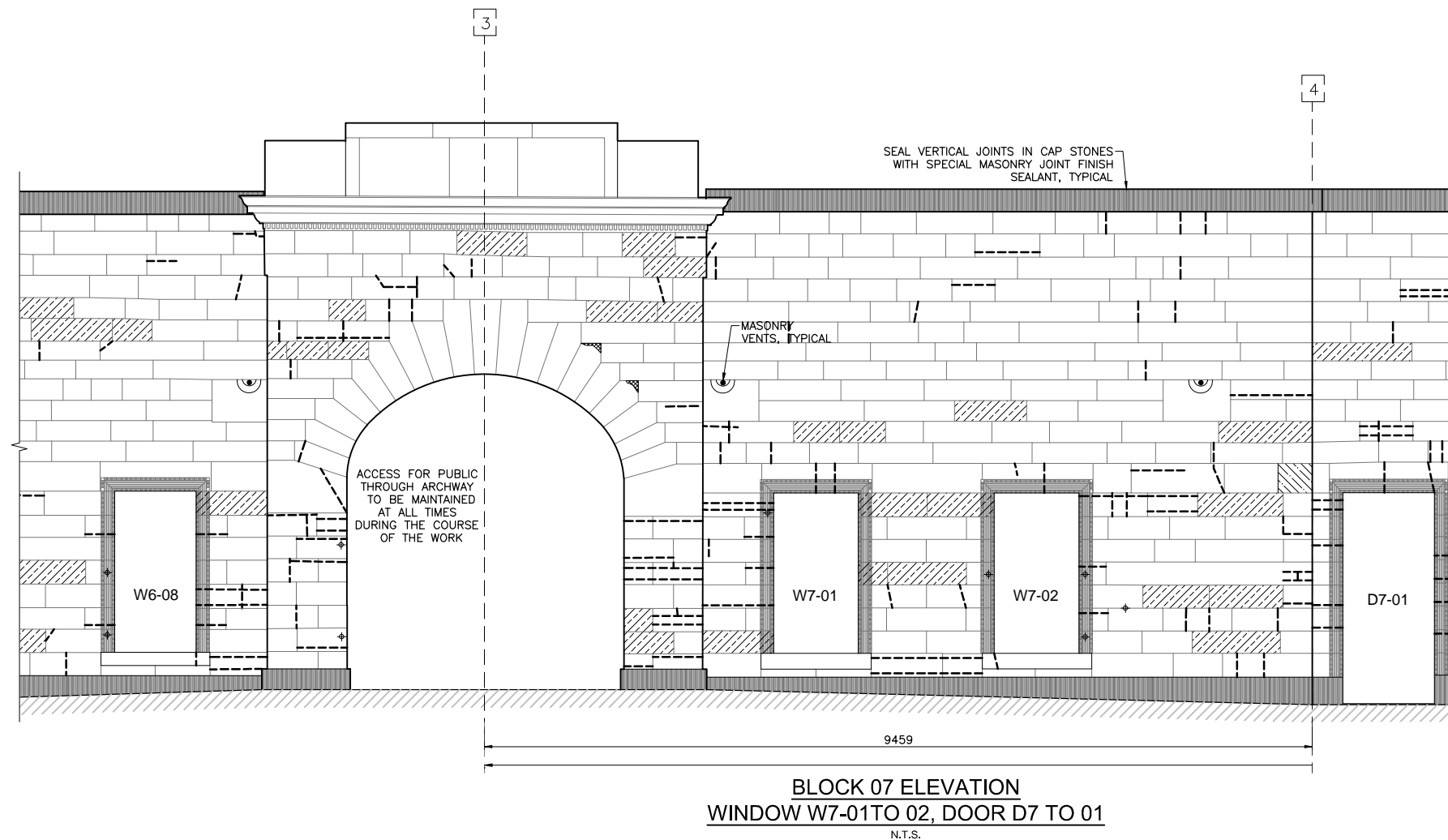
Designed by/ Conçu par _____ Date
S.T.R MARCH 2015

Checked by/ Vérifié par _____ Date
D.A.H MARCH 2015

Approved by / Approuvé par _____ Date

Project No./No. du projet 30026566 Client No./No du Client _____ Sheet No./
Feuille No. _____

Drawing Reference No./Numéro de Référence du Dessin **S10**





BAR GRILL ANCHORAGES TO BE REVIEWED BY DEPARTMENTAL REPRESENTATIVE ON SITE. IF ARE CORRODING, REMOVE ANCHORS, REPAIR MASONRY AND RE-INSTALL BAR GRILLS WITH NEW STAINLESS ANCHORAGES

PHOTO 11
N.T.S.

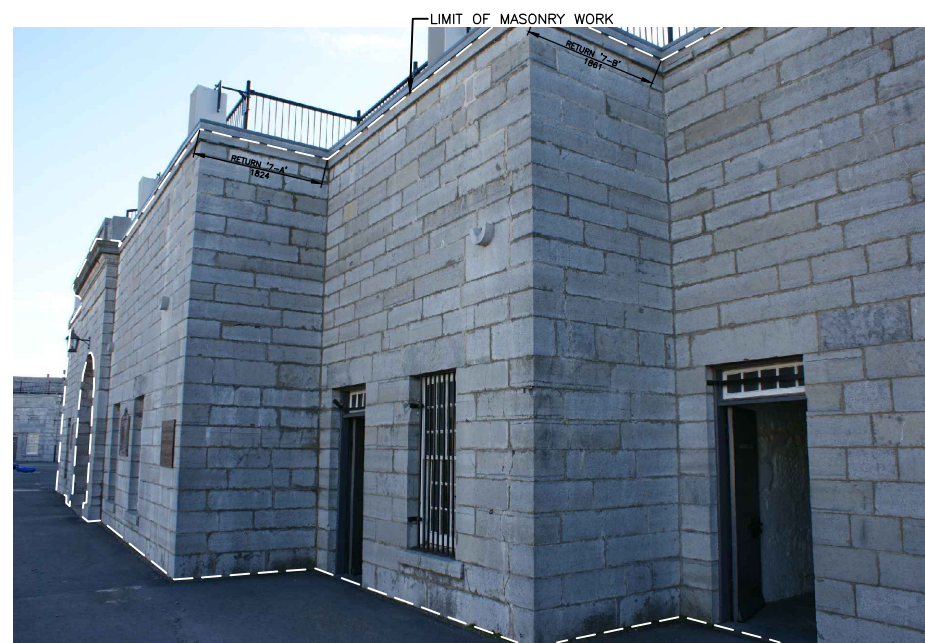


PHOTO 12
N.T.S.

SCOPE OF WORK:

- INSTALL ALL NECESSARY SCAFFOLDING, HOARDING, ETC. AS REQUIRED TO ACCESS COMPLETE EXTERIOR OF THE WALL (SEE DRAWING S2).
- REPOINT 100% OF ALL EXTERIOR JOINTS WITHIN THE LIMITS INDICATED. APPLY SPECIAL MASONRY JOINT FINISH SEALANT AS FINISH POINTING TO SKYWARD FACING MASONRY AND TO CRACKS IN WINDOW SILLS (SEE DRAWING S3). FOR CRACKS IN WINDOW SILLS, ROUT CRACK TO A MINIMUM WIDTH OF 6mm IN ORDER TO PROPERLY APPLY SEALANT.
- REPAIR OR REPLACE STONE UNITS AS DIRECTED BY THE DEPARTMENTAL REPRESENTATIVE (SEE DRAWINGS S3 AND S4). REFER TO PRICE TABLE FOR ESTIMATED QUANTITIES OF REPLACEMENT.
- COMPLETE REPAIRS TO WINDOW AND DOOR UNITS (SEE DRAWINGS S17 TO S21).
- CLEANUP AND RESTORE FEATURES, DISTURBED BY THIS WORK, TO ORIGINAL CONDITION OR BETTER.

NOTES:

- SEE NOTES ON S1 AND S2.

LEGEND

- ▨ PATCH REPAIR
- ▨ PARTIAL DUTCHMAN REPAIR
- ▨ FULL DUTCHMAN REPAIR
- CRACK REPAIR
- NEW LOUVERED VENT
- + CORRODING INSERT REMOVAL

NOTES:

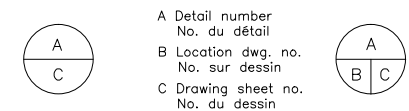
1. NOTED STONES FOR FULL REPLACEMENT OR FOR FULL DUTCHMAN REPAIR INDICATE STONES THAT WILL LIKELY REQUIRE REPAIR BUT MUST BE CONFIRMED BY THE DEPARTMENTAL REPRESENTATIVE AFTER ACCESS IS IN PLACE AND JOINT REMOVAL HAS BEEN COMPLETED.
2. NOTE THAT OTHER STONES FOR THESE TYPES OF REPAIRS MAY BE IDENTIFIED AND ARE TO BE REPAIRED AT THE RELEVANT UNIT PRICES OF THE CONTRACT AS DIRECTED BY THE DEPARTMENTAL REPRESENTATIVE.



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1	JAN 15	FOR 66% REVIEW	S.M.E	S.T.R.

No.	Date	Description	Drawn by Dessiné par	Approved Approuvé
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Revision / Révision



Client Acceptance / Acception du client
Signature _____ Date _____
File No./No. de dossier _____

Public Works and Government Services Canada / Travaux publics et Services gouvernementaux Canada
Client Service Team for Parks Canada Ontario Region / Équipe des services à la clientèle pour Parcs Canada Région de l'Ontario



Project title / Titre du projet

FORT HENRY NATIONAL HISTORIC SITE OF CANADA: CURTAINWALL REVETMENT CONSERVATION

KINGSTON ONTARIO

Drawing title / Titre du dessin

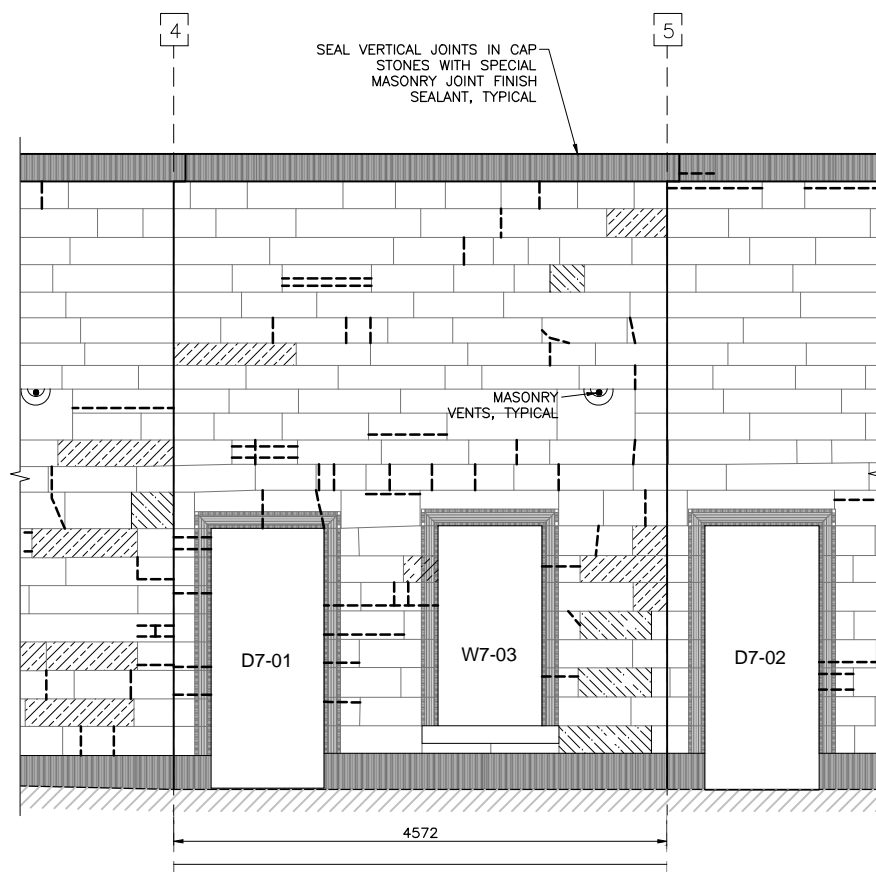
MASONRY, WINDOW AND DOOR REPAIRS – BLOCK 7 REPAIR AREAS, PHOTOS 11 AND 12

Scale / Échelle
NOT TO SCALE

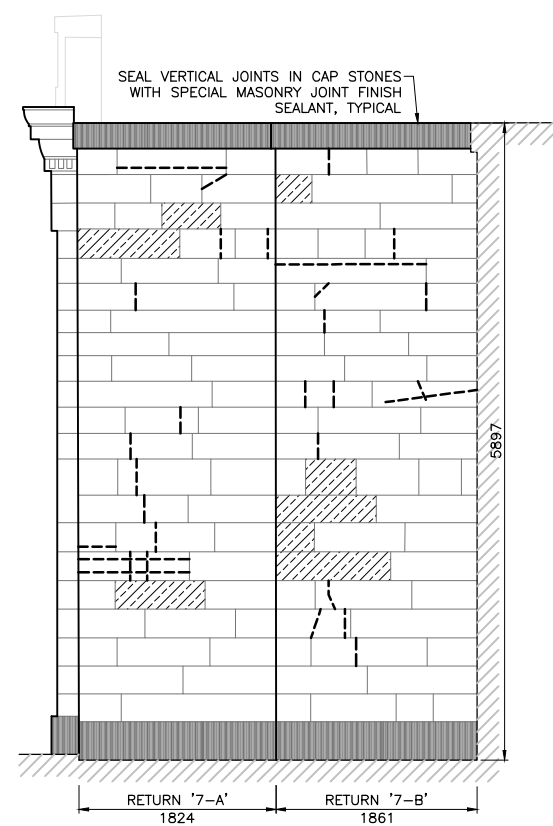
Drawn by/ Dessiné par	Date
S.M.E	MARCH 2015
Designed by/ Conçu par	Date
S.T.R	MARCH 2015
Checked by/ Vérifié par	Date
D.A.H	MARCH 2015
Approved by / Approuvé par	Date

Project No./No. du projet	Client No./No du Client	Sheet No./ Feuille No.
30026566		S11

Drawing Reference No./Numéro de Référence du Dessin



BLOCK 07 ELEVATION WINDOW W7-03 DOOR D7-01
N.T.S.



BLOCK 07 ELEVATION RETURNS
N.T.S.



PHOTO 13
N.T.S.

BAR GRILL ANCHORAGES TO BE REVIEWED BY DEPARTMENTAL REPRESENTATIVE ON SITE. IF ARE CORRODING, REMOVE ANCHORS, REPAIR MASONRY AND RE-INSTALL BAR GRILLS WITH NEW STAINLESS ANCHORAGES

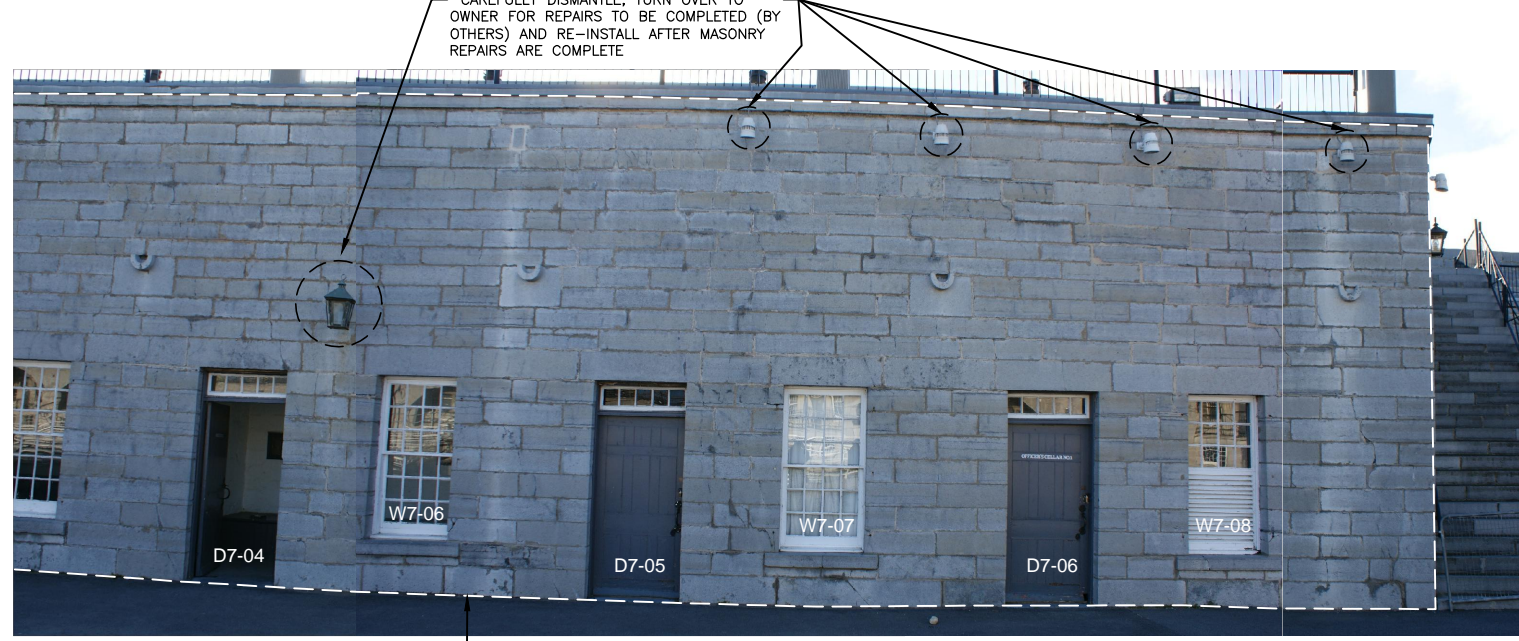
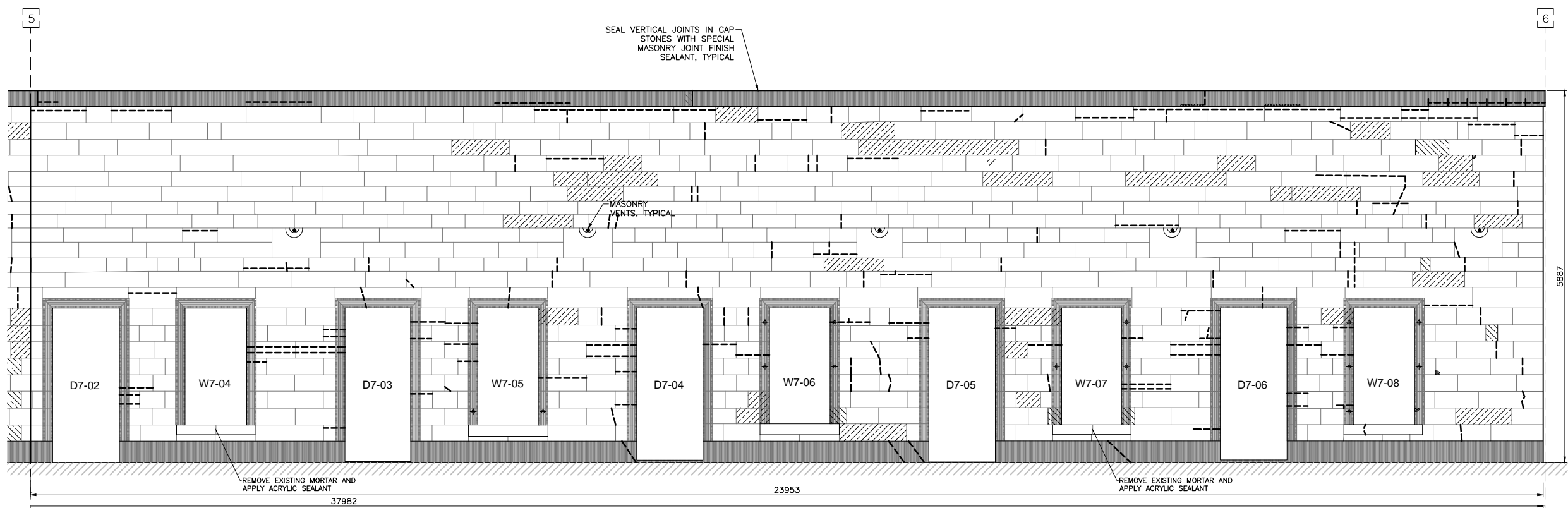


PHOTO 14
N.T.S.

LIMIT OF MASONRY WORK



BLOCK 07 ELEVATION
WINDOW W7-04 TO 08, DOOR D2 TO 06
N.T.S.

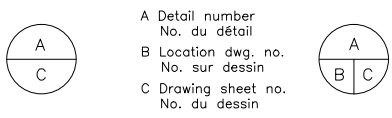
- LEGEND**
- PATCH REPAIR
 - PARTIAL DUTCHMAN REPAIR
 - FULL DUTCHMAN REPAIR
 - CRACK REPAIR
 - NEW LOUVERED VENT
 - CORRODING INSERT REMOVAL

- NOTES:**
1. NOTED STONES FOR FULL REPLACEMENT OR FOR FULL DUTCHMAN REPAIR INDICATE STONES THAT WILL LIKELY REQUIRE REPAIR BUT MUST BE CONFIRMED BY THE DEPARTMENTAL REPRESENTATIVE AFTER ACCESS IS IN PLACE AND JOINT REMOVAL HAS BEEN COMPLETED.
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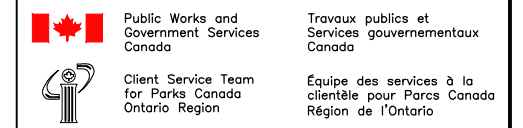
- NOTES:**
- SEE NOTES ON S1 AND S2.
 - SCOPE OF WORK:**
 - INSTALL ALL NECESSARY SCAFFOLDING, HOARDING, ETC. AS REQUIRED TO ACCESS COMPLETE EXTERIOR OF THE WALL (SEE DRAWING S2).
 - REPOINT 100% OF ALL EXTERIOR JOINTS WITHIN THE LIMITS INDICATED. APPLY SPECIAL MASONRY JOINT FINISH SEALANT AS FINISH POINTING TO SKYWARD FACING MASONRY AND TO CRACKS IN WINDOW SILLS (SEE DRAWING S3). FOR CRACKS IN WINDOW SILLS, ROUT CRACK TO A MINIMUM WIDTH OF 6mm IN ORDER TO PROPERLY APPLY SEALANT.
 - REPAIR OR REPLACE STONE UNITS AS DIRECTED BY THE DEPARTMENTAL REPRESENTATIVE (SEE DRAWINGS S3 AND S4). REFER TO PRICE TABLE FOR ESTIMATED QUANTITIES OF REPLACEMENT.
 - COMPLETE REPAIRS TO WINDOW AND DOOR UNITS (SEE DRAWINGS S17 TO S21).
 - CLEANUP AND RESTORE FEATURES, DISTURBED BY THIS WORK, TO ORIGINAL CONDITION OR BETTER.



3	APR 15	ISSUED FOR TENDER	S.M.E	S.T.R
2	MAR 15	FOR 99% REVIEW	S.M.E	S.T.R.
1	JAN 15	FOR 66% REVIEW	S.M.E	S.T.R.
No.	Date	Description	Drawn by Dessine par	Approved Approuvé



Client Acceptance / Acceptation du client
Signature _____ Date _____
File No./No. de dossier _____



Canada



Project title / Titre du projet
FORT HENRY NATIONAL HISTORIC SITE OF CANADA: CURTAINWALL REVETMENT CONSERVATION
KINGSTON ONTARIO

Drawing title / Titre du dessin
MASONRY, WINDOW AND DOOR REPAIRS – BLOCK 7
REPAIR AREAS, PHOTOS 13 AND 14

Scale / Échelle
NOT TO SCALE

Drawn by/ Dessiné par	Date
S.M.E	MARCH 2015
Designed by/ Conçu par	Date
S.T.R	MARCH 2015
Checked by/ Vérifié par	Date
D.A.H	MARCH 2015
Approved by / Approuvé par	Date

Project No./No. du projet 30026566	Client No./No du Client	Sheet No./ Feuille No. S12
Drawing Reference No./Numéro de Référence du Dessin		

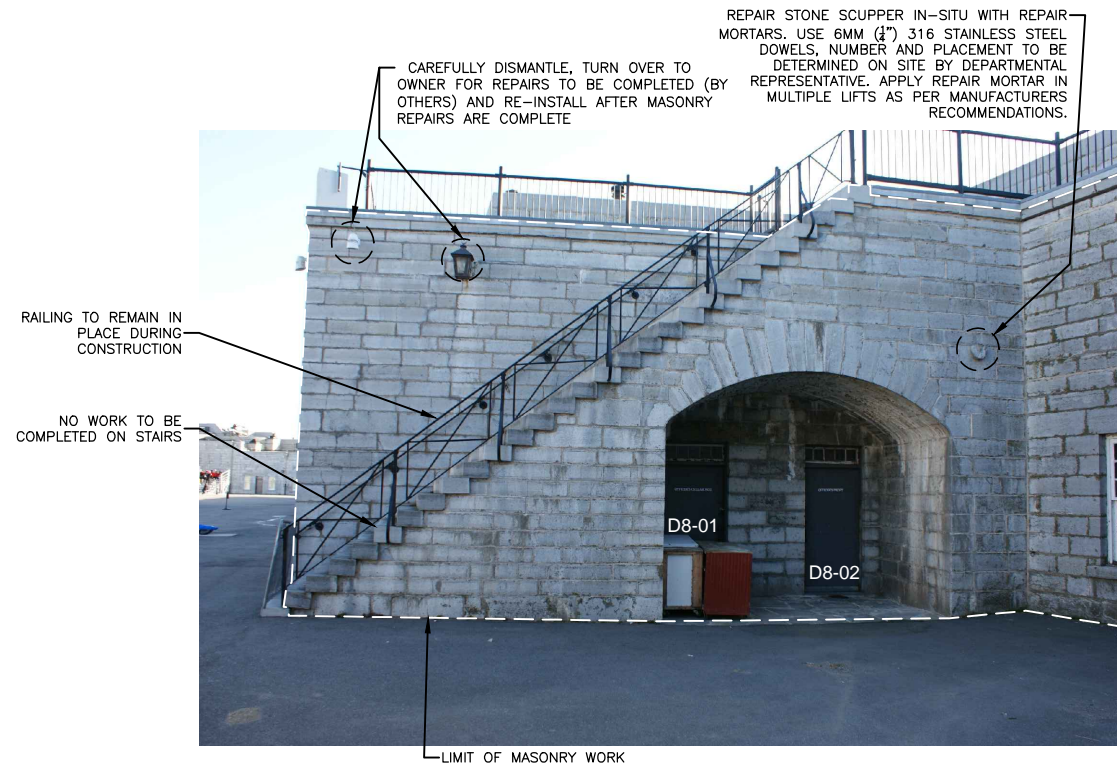


PHOTO 15
N.T.S.



PHOTO 16
N.T.S.



PHOTO 18
N.T.S.



PHOTO 17
N.T.S.

SCOPE OF WORK:

- INSTALL ALL NECESSARY SCAFFOLDING, HOARDING, ETC. AS REQUIRED TO ACCESS COMPLETE EXTERIOR OF THE WALL (SEE DRAWING S2).
- REPOINT 100% OF ALL EXTERIOR JOINTS WITHIN THE LIMITS INDICATED. APPLY SPECIAL MASONRY JOINT FINISH SEALANT AS FINISH POINTING TO SKYWARD FACING MASONRY AND TO CRACKS IN WINDOW SILLS (SEE DRAWING S3). FOR CRACKS IN WINDOW SILLS, ROUT CRACK TO A MINIMUM WIDTH OF 6mm IN ORDER TO PROPERLY APPLY SEALANT.
- REPAIR OR REPLACE STONE UNITS AS DIRECTED BY THE DEPARTMENTAL REPRESENTATIVE (SEE DRAWINGS S3 AND S4). REFER TO PRICE TABLE FOR ESTIMATED QUANTITIES OF REPLACEMENT.
- COMPLETE REPAIRS TO WINDOW AND DOOR UNITS (SEE DRAWINGS S17 TO S21).
- CLEANUP AND RESTORE FEATURES, DISTURBED BY THIS WORK, TO ORIGINAL CONDITION OR BETTER.

NOTES:

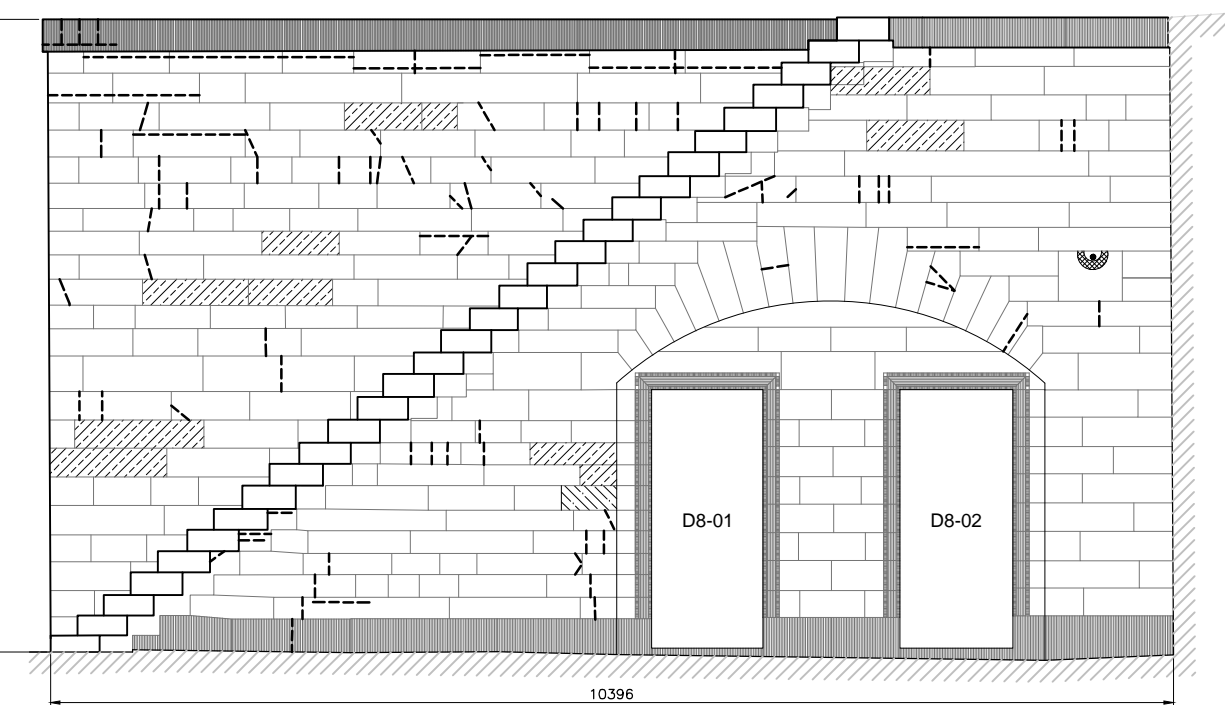
- SEE NOTES ON S1 AND S2.

LEGEND

- PATCH REPAIR
- PARTIAL DUTCHMAN REPAIR
- FULL DUTCHMAN REPAIR
- CRACK REPAIR
- NEW LOUVERED VENT
- + CORRODING INSERT REMOVAL

NOTES:

1. NOTED STONES FOR FULL REPLACEMENT OR FOR FULL DUTCHMAN REPAIR INDICATE STONES THAT WILL LIKELY REQUIRE REPAIR BUT MUST BE CONFIRMED BY THE DEPARTMENTAL REPRESENTATIVE AFTER ACCESS IS IN PLACE AND JOINT REMOVAL HAS BEEN COMPLETED.
2. NOTE THAT OTHER STONES FOR THESE TYPES OF REPAIRS MAY BE IDENTIFIED AND ARE TO BE REPAIRED AT THE RELEVANT UNIT PRICES OF THE CONTRACT AS DIRECTED BY THE DEPARTMENTAL REPRESENTATIVE.



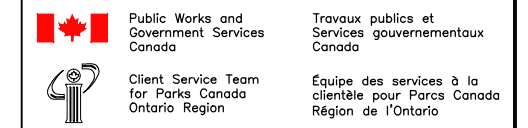
BLOCK 08 ELEVATION
D8-01 TO 02
N.T.S.



3	APR 15	ISSUED FOR TENDER	S.M.E	S.T.R
2	MAR 15	FOR 99% REVIEW	S.M.E	S.T.R.
1	JAN 15	FOR 66% REVIEW	S.M.E	S.T.R.
No.	Date	Description	Drawn by Dessine par	Approved Approuvé

Revision / Révision	
	A Detail number No. du détail
	B Location dwg. no. No. sur dessin
	C Drawing sheet no. No. du dessin

Client Acceptance / Acceptation du client
Signature _____ Date _____
File No./No. de dossier _____



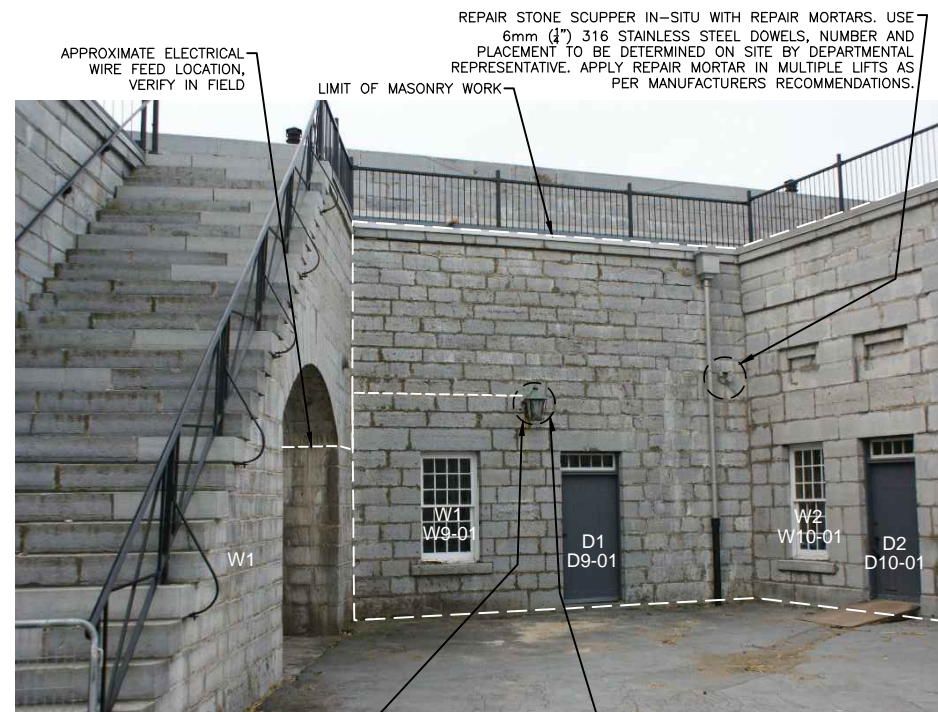
Project title / Titre du projet

**FORT HENRY NATIONAL
HISTORIC SITE OF CANADA:
CURTAINWALL REVETMENT
CONSERVATION**
KINGSTON **ONTARIO**

Drawing title / Titre du dessin
**MASONRY, WINDOW AND DOOR
REPAIRS – BLOCK 8
REPAIR AREAS, PHOTOS 15 to 18**

Scale / Échelle NOT TO SCALE	
Drawn by/ Dessiné par S.M.E	Date MARCH 2015
Designed by/ Conçu par S.T.R	Date MARCH 2015
Checked by/ Vérifié par D.A.H	Date MARCH 2015
Approved by / Approuvé par	Date

Project No./No. du projet 30026566	Client No./No du Client	Sheet No./ Feuille No. S13
Drawing Reference No./Numéro de Référence du Dessin		



CAREFULLY DISMANTLE, TURN OVER TO OWNER FOR REPAIRS TO BE COMPLETED (BY OTHERS) AND RE-INSTALL AFTER MASONRY REPAIRS ARE COMPLETE

PHOTO 19
N.T.S.

REPLACE ELECTRICAL FEED TO RECEPTACLE AND RUN ELECTRICAL CIRCUIT TO INTERIOR OF D1. ALL ELECTRICAL WORKS SHALL BE PERFORMED BY A QUALIFIED ELECTRICIAN TO ALL APPLICABLE ELECTRICAL STANDARDS. COORDINATE WITH INTERIOR ELECTRICAL WORK ON DRAWING S5.

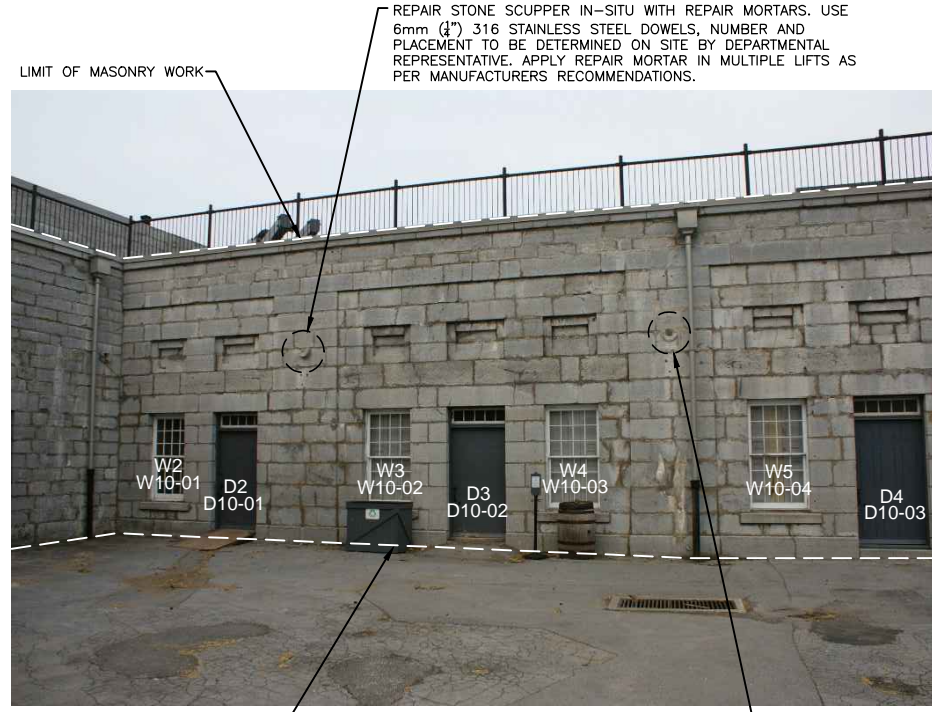


PHOTO 20
N.T.S.

REPLACE STONE SCUPPER WITH STONE TO MATCH EXISTING SIZE AND TOOLING, AS DIRECTED BY THE DEPARTMENTAL REPRESENTATIVE. (ALSO SEE DETAIL ON DWG. S6)

SCOPE OF WORK:

- INSTALL ALL NECESSARY SCAFFOLDING, HOARDING, ETC. AS REQUIRED TO ACCESS COMPLETE EXTERIOR OF THE WALL (SEE DRAWING S2).
- REPOINT 100% OF ALL EXTERIOR JOINTS WITHIN THE LIMITS INDICATED. APPLY SPECIAL MASONRY JOINT FINISH SEALANT AS FINISH POINTING TO SKYWARD FACING MASONRY AND TO CRACKS IN WINDOW SILLS (SEE DRAWING S3). FOR CRACKS IN WINDOW SILLS, ROUT CRACK TO A MINIMUM WIDTH OF 6mm IN ORDER TO PROPERLY APPLY SEALANT.
- REPAIR OR REPLACE STONE UNITS AS DIRECTED BY THE DEPARTMENTAL REPRESENTATIVE (SEE DRAWINGS S3 AND S4). REFER TO PRICE TABLE FOR ESTIMATED QUANTITIES OF REPLACEMENT.
- COMPLETE REPAIRS TO WINDOW AND DOOR UNITS (SEE DRAWINGS S17 TO S21).
- CLEANUP AND RESTORE FEATURES, DISTURBED BY THIS WORK, TO ORIGINAL CONDITION OR BETTER.

NOTES:

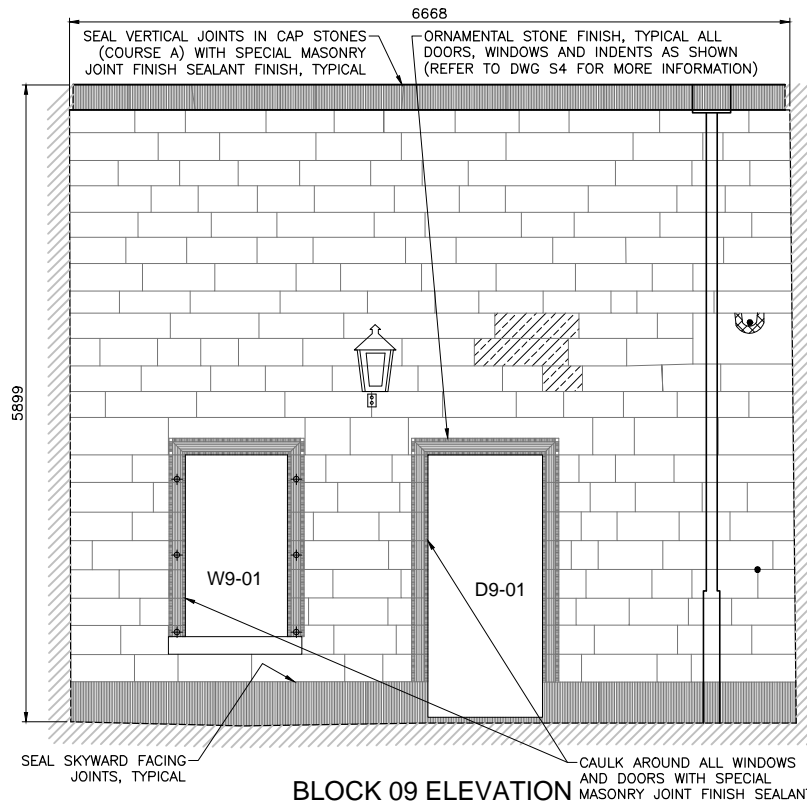
- SEE NOTES ON S1 AND S2.

LEGEND

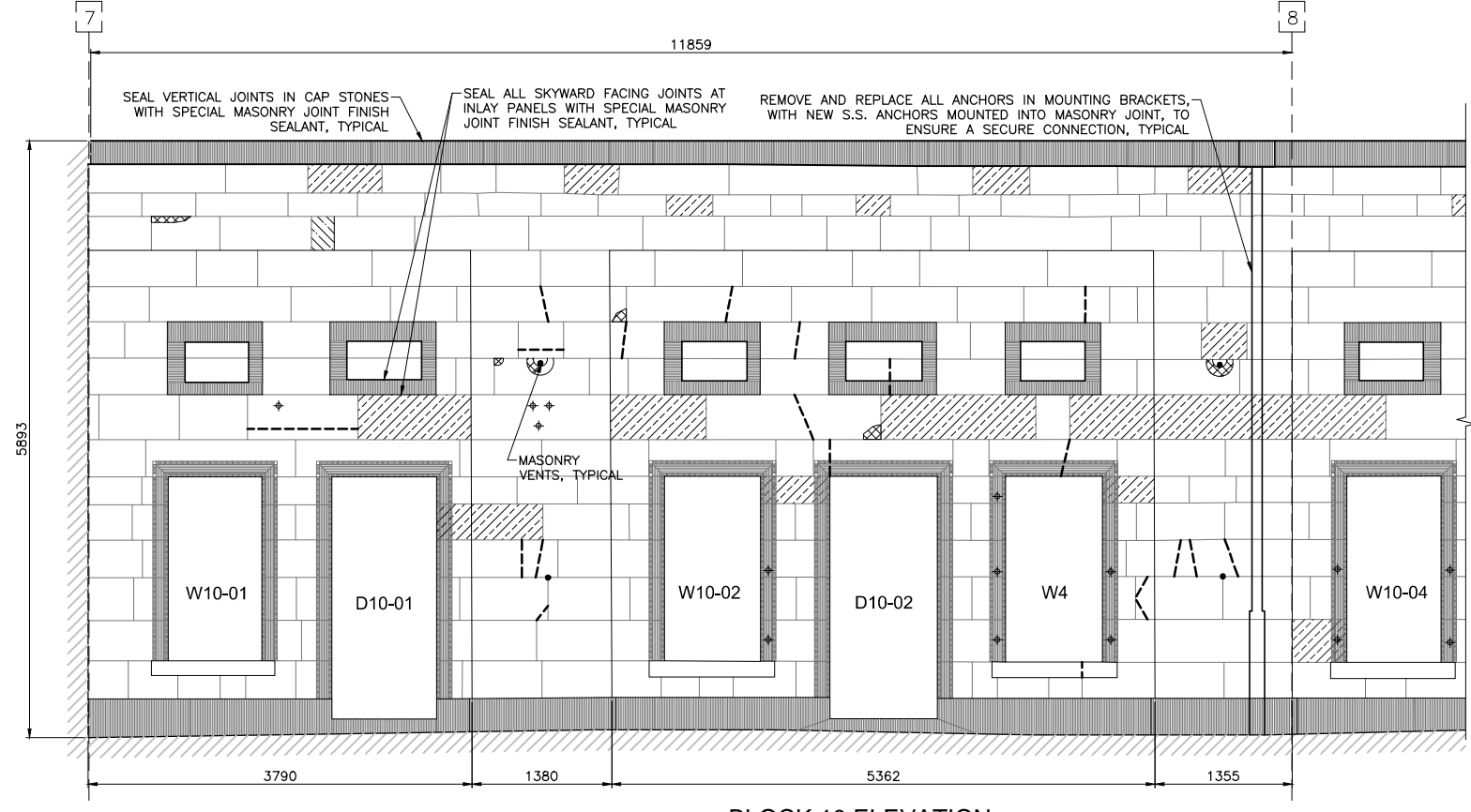
- PATCH REPAIR
- PARTIAL DUTCHMAN REPAIR
- FULL DUTCHMAN REPAIR
- CRACK REPAIR
- NEW LOUVERED VENT
- CORRODING INSERT REMOVAL

NOTES:

- NOTED STONES FOR FULL REPLACEMENT OR FOR FULL DUTCHMAN REPAIR INDICATE STONES THAT WILL LIKELY REQUIRE REPAIR BUT MUST BE CONFIRMED BY THE DEPARTMENTAL REPRESENTATIVE AFTER ACCESS IS IN PLACE AND JOINT REMOVAL HAS BEEN COMPLETED.
- NOTE THAT OTHER STONES FOR THESE TYPES OF REPAIRS MAY BE IDENTIFIED AND ARE TO BE REPAIRED AT THE RELEVANT UNIT PRICES OF THE CONTRACT AS DIRECTED BY THE DEPARTMENTAL REPRESENTATIVE.



BLOCK 09 ELEVATION
WINDOW W1, DOOR D1
N.T.S.



BLOCK 10 ELEVATION
WINDOWS W2 TO W5, DOORS D2 AND D3
N.T.S.



3	APR 15	ISSUED FOR TENDER	S.M.E	S.T.R
2	MAR 15	FOR 99% REVIEW	S.M.E	S.T.R.
1	JAN 15	FOR 66% REVIEW	S.M.E	S.T.R.
No.	Date	Description	Drawn by Dessine par	Approved Approuvé

Revision / Révision	
A	Detail number No. du détail
B	Location dwg. no. No. sur dessin
C	Drawing sheet no. No. du dessin

Client Acceptance / Acceptation du client
Signature _____ Date _____
File No./No. de dossier _____

Public Works and Government Services Canada / Travaux publics et Services gouvernementaux Canada
Client Service Team for Parks Canada Ontario Region / Équipe des services à la clientèle pour Parcs Canada Région de l'Ontario



Project title / Titre du projet
FORT HENRY NATIONAL HISTORIC SITE OF CANADA: CURTAINWALL REVETMENT CONSERVATION
KINGSTON ONTARIO

Drawing title / Titre du dessin
MASONRY, WINDOW AND DOOR REPAIRS – BLOCKS 9 AND 10 REPAIR AREAS, PHOTOS 19 AND 20

Scale / Échelle	NOT TO SCALE	
Drawn by/ Dessiné par	S.M.E	Date
Designed by/ Conçu par	S.T.R	Date
Checked by/ Vérifié par	D.A.H	Date
Approved by / Approuvé par		Date

Project No./No. du projet	Client No./No du Client	Sheet No./ Feuille No.
30026566		S14
Drawing Reference No./Numéro de Référence du Dessin		



PHOTO 21
N.T.S.

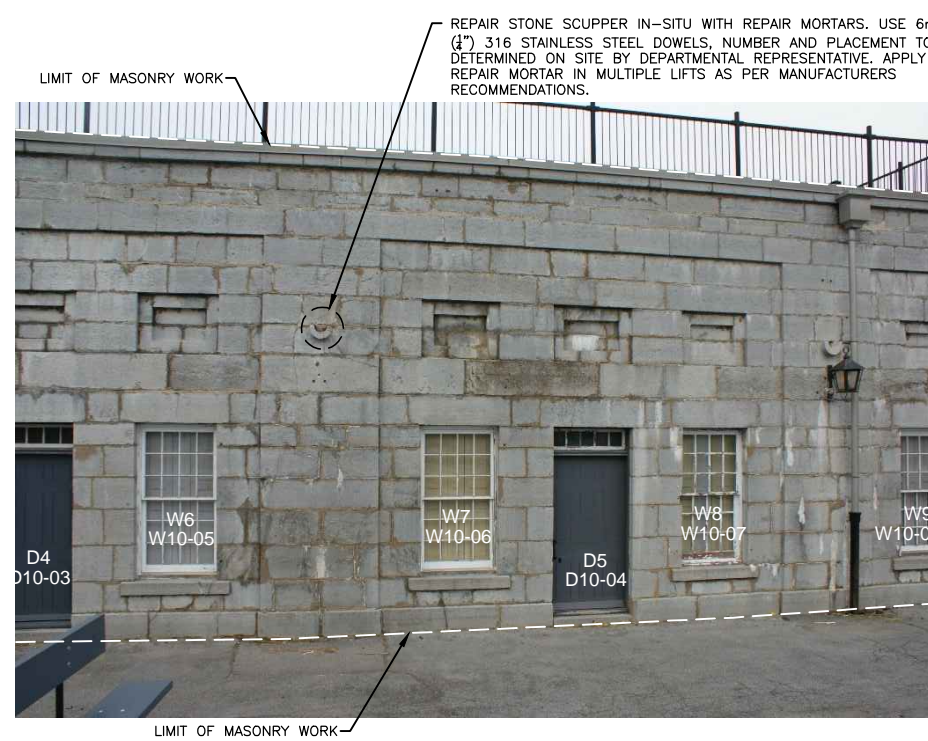


PHOTO 22
N.T.S.

SCOPE OF WORK:

- INSTALL ALL NECESSARY SCAFFOLDING, HOARDING, ETC. AS REQUIRED TO ACCESS COMPLETE EXTERIOR OF THE WALL (SEE DRAWING S2).
- REPOINT 100% OF ALL EXTERIOR JOINTS WITHIN THE LIMITS INDICATED. APPLY SPECIAL MASONRY JOINT FINISH SEALANT AS FINISH POINTING TO SKYWARD FACING MASONRY AND TO CRACKS IN WINDOW SILLS (SEE DRAWING S3). FOR CRACKS IN WINDOW SILLS, ROUT CRACK TO A MINIMUM WIDTH OF 6mm IN ORDER TO PROPERLY APPLY SEALANT.
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- COMPLETE REPAIRS TO WINDOW AND DOOR UNITS (SEE DRAWINGS S17 TO S21).
- CLEANUP AND RESTORE FEATURES, DISTURBED BY THIS WORK, TO ORIGINAL CONDITION OR BETTER.

NOTES:

- SEE NOTES ON S1 AND S2.

LEGEND

- ▨ PATCH REPAIR
- ▨ PARTIAL DUTCHMAN REPAIR
- ▨ FULL DUTCHMAN REPAIR
- CRACK REPAIR
- NEW LOUVERED VENT
- + CORRODING INSERT REMOVAL

NOTES:

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1	JAN 15	FOR 66% REVIEW	S.M.E	S.T.R.
No.	Date	Description	Drawn by Dessine par	Approved Approuvé

Revision / Révision	
A	Detail number No. du détail
B	Location dwg. no. No. sur dessin
C	Drawing sheet no. No. du dessin

Client Acceptance / Acceptation du client
Signature _____ Date _____
File No./No. de dossier _____

Public Works and Government Services Canada / Travaux publics et Services gouvernementaux Canada
Client Service Team for Parks Canada Ontario Region / Équipe des services à la clientèle pour Parcs Canada Région de l'Ontario



Project title / Titre du projet

FORT HENRY NATIONAL HISTORIC SITE OF CANADA: CURTAINWALL REVETMENT CONSERVATION

KINGSTON ONTARIO

Drawing title / Titre du dessin

MASONRY, WINDOW AND DOOR REPAIR – BLOCK 10 REPAIR AREAS, PHOTOS 21 AND 22

Scale / Échelle
NOT TO SCALE

Drawn by/ Dessiné par
S.M.E Date
MARCH 2015

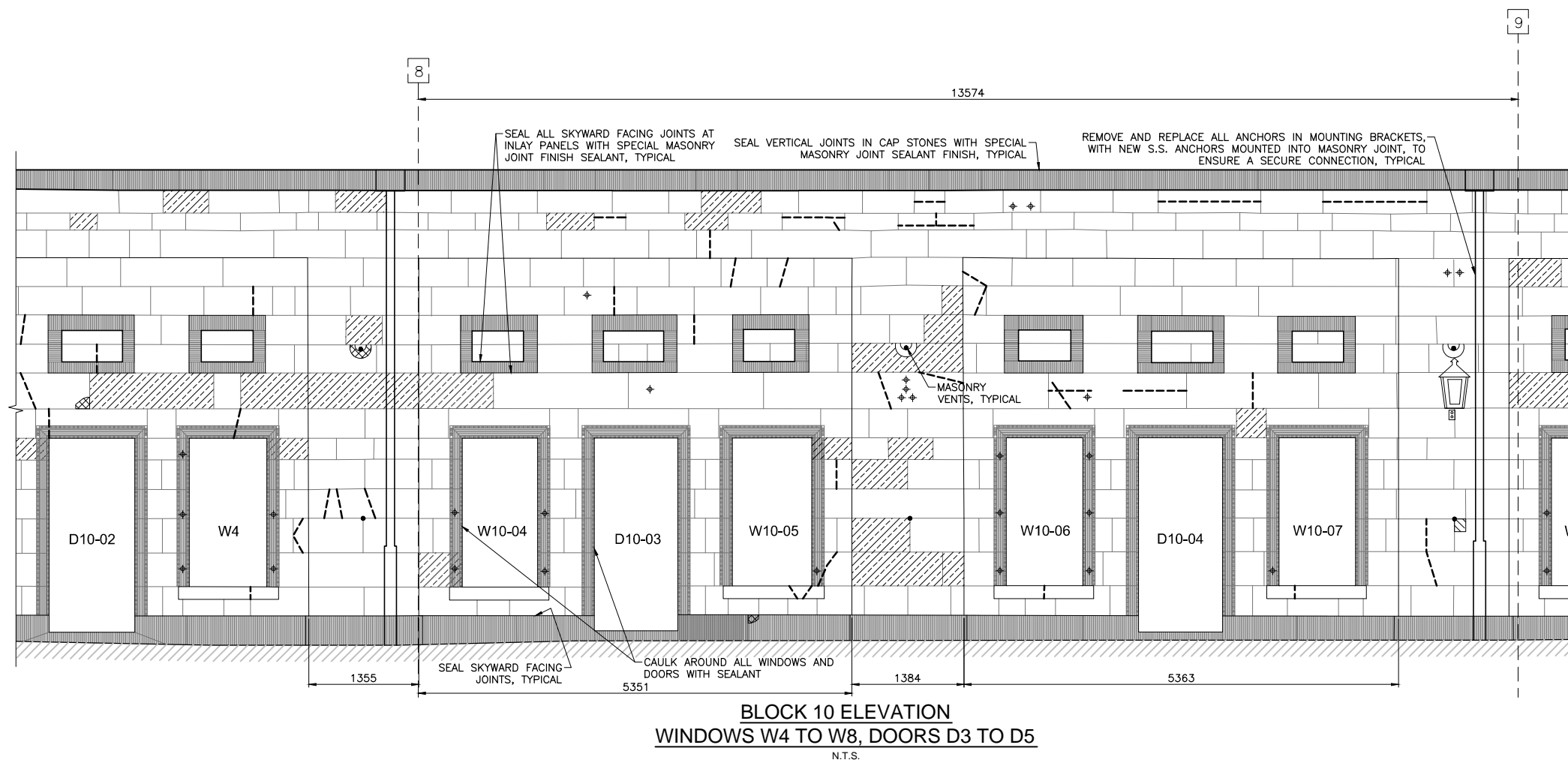
Designed by/ Conçu par
S.T.R Date
MARCH 2015

Checked by/ Vérifié par
D.A.H Date
MARCH 2015

Approved by / Approuvé par
Date

Project No./No. du projet
30026566 Client No./No du Client
Sheet No./ Feuille No.

Drawing Reference No./Numéro de Référence du Dessin
S15



BLOCK 10 ELEVATION
WINDOWS W4 TO W8, DOORS D3 TO D5
N.T.S.



CAREFULLY DISMANTLE, TURN OVER TO OWNER FOR REPAIRS TO BE COMPLETED (BY OTHERS) AND RE-INSTALL AFTER MASONRY REPAIRS ARE COMPLETE

PHOTO 23
N.T.S.



CAREFULLY DISMANTLE, TURN OVER TO OWNER FOR REPAIRS TO BE COMPLETED (BY OTHERS) AND RE-INSTALL AFTER MASONRY REPAIRS ARE COMPLETE

PHOTO 24
N.T.S.

REPAIR STONESCUPPER IN-SITU WITH REPAIR MORTARS. USE 6mm (1/4") 316 STAINLESS STEEL DOWELS, NUMBER AND PLACEMENT TO BE DETERMINED ON SITE BY DEPARTMENTAL REPRESENTATIVE. APPLY REPAIR MORTAR IN MULTIPLE LIFTS AS PER MANUFACTURERS RECOMMENDATIONS.

SCOPE OF WORK:

- INSTALL ALL NECESSARY SCAFFOLDING, HOARDING, ETC. AS REQUIRED TO ACCESS COMPLETE EXTERIOR OF THE WALL (SEE DRAWING S2).
- REPOINT 100% OF ALL EXTERIOR JOINTS WITHIN THE LIMITS INDICATED. APPLY SPECIAL MASONRY JOINT FINISH SEALANT AS FINISH POINTING TO SKYWARD FACING MASONRY AND TO CRACKS IN WINDOW SILLS (SEE DRAWING S3). FOR CRACKS IN WINDOW SILLS, ROUT CRACK TO A MINIMUM WIDTH OF 6mm IN ORDER TO PROPERLY APPLY SEALANT.
- REPAIR OR REPLACE STONE UNITS AS DIRECTED BY THE DEPARTMENTAL REPRESENTATIVE (SEE DRAWINGS S3 AND S4). REFER TO PRICE TABLE FOR ESTIMATED QUANTITIES OF REPLACEMENT.
- COMPLETE REPAIRS TO WINDOW AND DOOR UNITS (SEE DRAWINGS S17 TO S21).
- CLEANUP AND RESTORE FEATURES, DISTURBED BY THIS WORK, TO ORIGINAL CONDITION OR BETTER.

NOTES:

- SEE NOTES ON S1 AND S2.

LEGEND

- PATCH REPAIR
- PARTIAL DUTCHMAN REPAIR
- FULL DUTCHMAN REPAIR
- CRACK REPAIR
- NEW LOUVERED VENT
- CORRODING INSERT REMOVAL

NOTES:

- NOTED STONES FOR FULL REPLACEMENT OR FOR FULL DUTCHMAN REPAIR INDICATE STONES THAT WILL LIKELY REQUIRE REPAIR BUT MUST BE CONFIRMED BY THE DEPARTMENTAL REPRESENTATIVE AFTER ACCESS IS IN PLACE AND JOINT REMOVAL HAS BEEN COMPLETED.
- NOTE THAT OTHER STONES FOR THESE TYPES OF REPAIRS MAY BE IDENTIFIED AND ARE TO BE REPAIRED AT THE RELEVANT UNIT PRICES OF THE CONTRACT AS DIRECTED BY THE DEPARTMENTAL REPRESENTATIVE.



3	APR 15	ISSUED FOR TENDER	S.M.E	S.T.R
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1	JAN 15	FOR 66% REVIEW	S.M.E	S.T.R.

No.	Date	Description	Drawn by Dessine par	Approved Approuvé
Revision / Révision				
		A Detail number No. du détail		
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Client Acceptance / Acceptation du client
Signature _____ Date _____
File No./No. de dossier _____

Public Works and Government Services Canada
 Travaux publics et Services gouvernementaux Canada
 Client Service Team for Parks Canada Ontario Region
 Équipe des services à la clientèle pour Parcs Canada Région de l'Ontario



Project title / Titre du projet

FORT HENRY NATIONAL HISTORIC SITE OF CANADA: CURTAINWALL REVETMENT CONSERVATION
KINGSTON ONTARIO

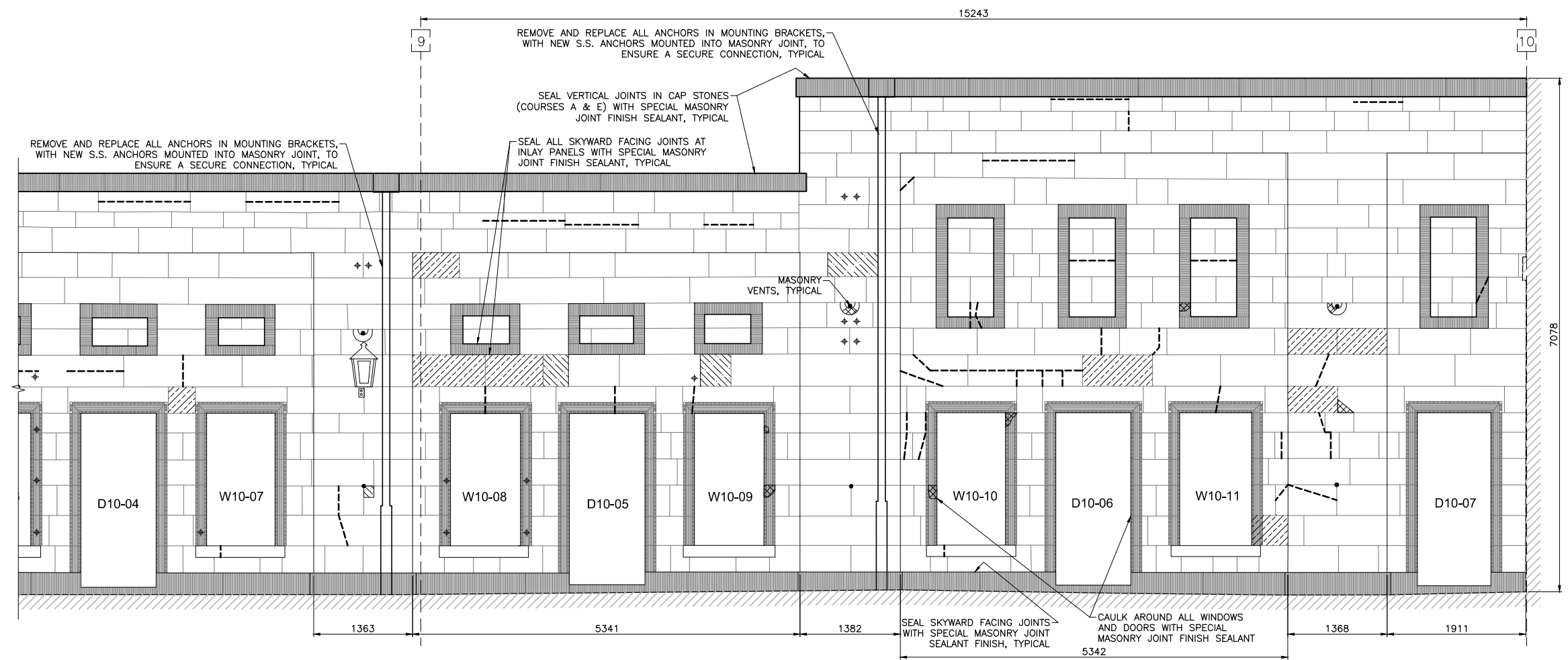
Drawing title / Titre du dessin

MASONRY, WINDOW AND DOOR REPAIRS – BLOCK 10
REPAIR AREAS, PHOTOS 23 AND 24

Scale / Échelle
NOT TO SCALE

Drawn by/ Dessiné par	Date
S.M.E	MARCH 2015
Designed by/ Conçu par	Date
S.T.R	MARCH 2015
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D.A.H	MARCH 2015
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Project No./No. du projet	Client No./No du Client	Sheet No./ Feuille No.
30026566		S16
Drawing Reference No./Numéro de Référence du Dessin		



BLOCK 10 ELEVATION
WINDOW W8 TO W12, DOOR D5 TO D8
N.T.S.



MODEL DOOR - D10-02

N.T.S.



ORIGINAL 1938 UNIT REQUIRING REPAIRS - W10-01

N.T.S.



***TYPICAL INTERIOR OF ORIGINAL 1938 UNIT - W10-01**

N.T.S.
*TYPICAL WITHIN MUSEUM AREA

WINDOW CONSERVATION:

- NO WINDOW REMOVALS ARE PERMITTED PRIOR TO ANY MASONRY WORK CAUSING A DUSTY ENVIRONMENT.
- SEE WINDOW SCHEDULE AND DETAILS ON DWG. S20 & S21
- PRIOR TO ALL WINDOW CONSERVATION MEASURES REMOVE ALL SHUTTERS, LOUVERED VENT UNITS, 'STORM' WINDOWS, ROOM DARKENING AND DISPLAYS FROM WINDOWS, INCLUDING WINDOW EMBRASURES AND STORE AS DIRECTED BY DEPARTMENTAL REPRESENTATIVE.
- FOLLOWING COMPLETION OF MASONRY REPAIRS, REMOVE ALL SASH FOR REPAIRS (UNLESS OTHERWISE NOTED) OF BOTH SASH AND FRAMES DOCUMENTING LOCATION OF EACH UNIT. REMOVE FRAMES ONLY IF DIRECTED. PROVIDE TEMPORARY PLYWOOD COVERS TO MAINTAIN WEATHER TIGHTNESS AND SECURITY TO SATISFACTION OF DEPARTMENTAL REPRESENTATIVE.
- CONSERVE MAXIMUM AMOUNT OF ORIGINAL MATERIAL. ACCEPT MINOR GOUGES AND CHECKS, BUT CUT OUT ALL DECAYED WOOD AND SCARF IN NEW SOUND 'C'-SELECT WHITE PINE, PRESERVATIVE TREATED WITH ZINC NAPHTHANATE. SEE WINDOW SCHEDULE-EXCEPT SILL REPLACEMENT TO BE WHITE OAK. FOR MINOR DAMAGE USE WOOD-EPOX FILLER,
- REPLACE ELEMENTS e.g. SASH, MUNTINS, RAILS, ETC. AS DIRECTED. SEE WINDOW SCHEDULE. ALL REPLACEMENT MATERIAL TO BE 'C'-SELECT WHITE PINE ACCURATELY MATCHING DIMENSION AND PROFILE OF ORIGINAL. PRESERVATIVE TREAT WITH ZINC NAPHTHANATE.
- BACKPRIME ALL NEW WOOD AND EXISTING ELEMENTS WHICH HAVE BEEN STRIPPED TO BARE WOOD.
- RE-GLAZE AND INSTALL OPAQUE FILM WHERE INDICATED, AS DIRECTED BY THE DEPARTMENTAL REPRESENTATIVE. SEE WINDOW SCHEDULE.
- PRIME AND PAINT (2 FINISH COATS) ALL UNITS.
- PROVIDE SPRUNG COPPER WEATHER STRIPPING TO ALL OPERABLE UNITS AND MODIFY SASH/FRAME TO ACCOMMODATE. SEE DETAIL.
- ISOLATE WOOD SILL FROM CONCRETE STILES WITH MEMBRANE SUCH AS BLUESKIN.



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André Scheinman
HERITAGE PRESERVATION CONSULTANT

Project title / Titre du projet

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KINGSTON ONTARIO

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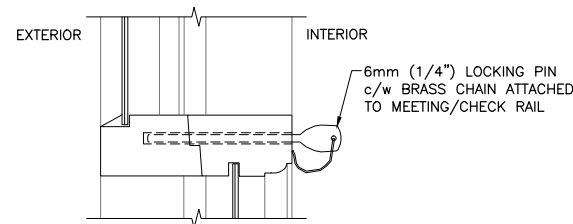
MASONRY, WINDOW AND DOOR REPAIRS - WINDOW AND DOOR DETAILS

Scale / Échelle
NOT TO SCALE

Drawn by/ Dessiné par	Date
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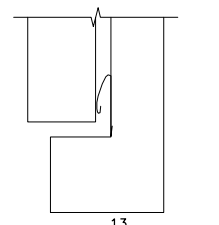
Project No./No. du projet	Client No./No du Client	Sheet No./ Feuille No.
30026566		S17

Drawing Reference No./Numéro de Référence du Dessin



MEETING/CHECK RAIL & LOCKING PIN DETAILS

N.T.S.



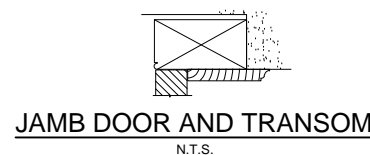
TYPICAL WEATHERSTRIPPING TO BE APPLIED

N.T.S.



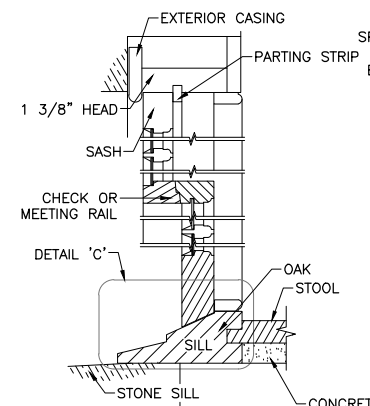
DOOR STILE AND PANEL

N.T.S.



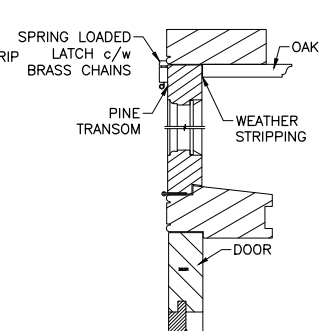
JAMB DOOR AND TRANSOM

N.T.S.



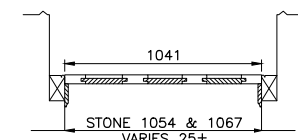
TYPICAL WINDOW SECTION DETAIL

N.T.S.



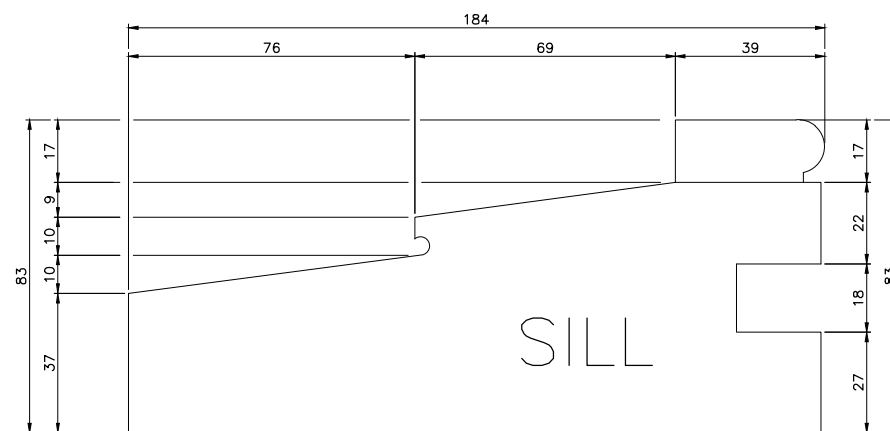
TYPICAL DOOR TRANSOM SECTION

N.T.S.



TYPICAL DOOR PLAN

N.T.S.

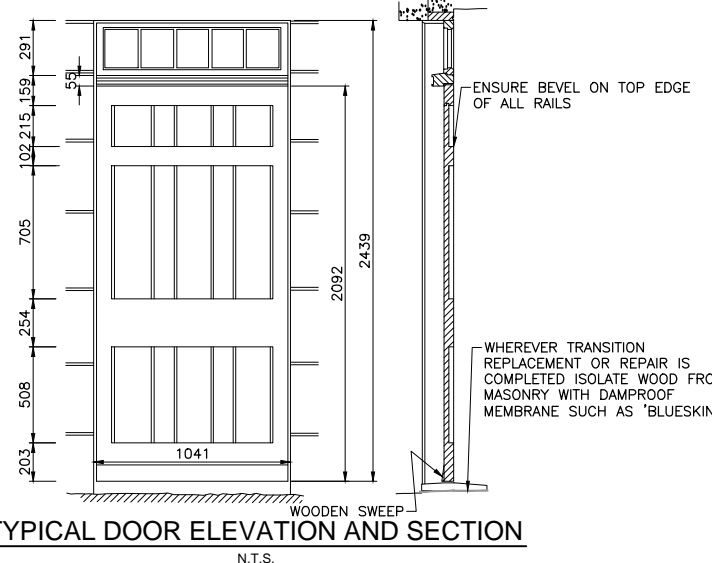


DETAIL 'C'

N.T.S.

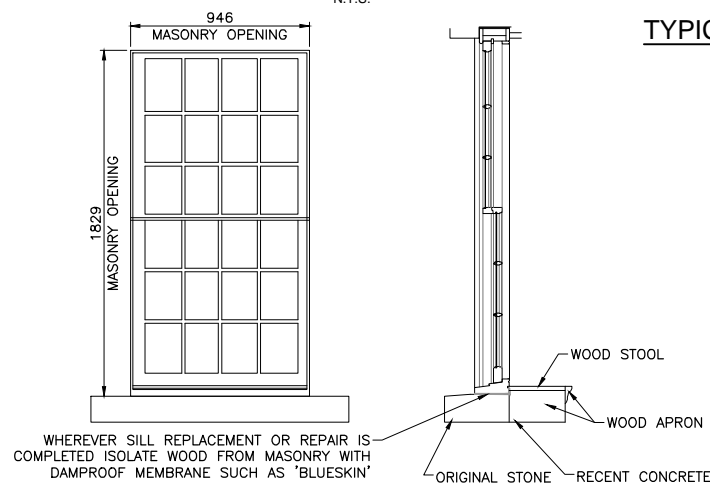
NOTE:

- DIMENSIONS MAY NOT BE EXACTLY AS SHOWN, MATCH EXISTING OR AS DIRECTED BY THE DEPARTMENTAL REPRESENTATIVE.



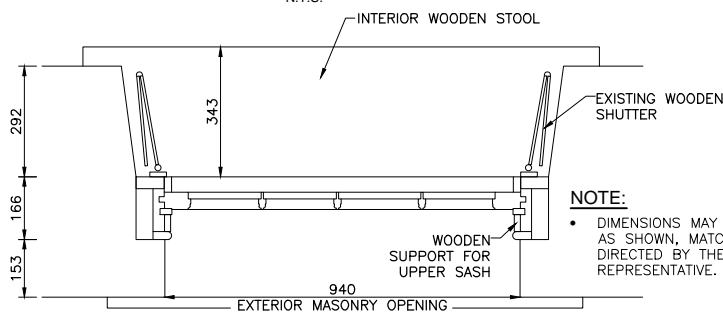
TYPICAL DOOR ELEVATION AND SECTION

N.T.S.



TYPICAL WINDOW ELEVATION AND SECTION

N.T.S.



TYPICAL WINDOW PLAN

N.T.S.

- NOTE:**
- DIMENSIONS MAY NOT BE EXACTLY AS SHOWN, MATCH EXISTING OR AS DIRECTED BY THE DEPARTMENTAL REPRESENTATIVE.



TYPICAL HEAD JAMB CASING REPLACEMENT

N.T.S.



TYPICAL TRANSOM BAR

N.T.S.



INTERIOR OF D5-01 - LEFT

NOTE: MISSING BOARDS TO BE REPLACED

N.T.S.



INTERIOR OF D5-01 - RIGHT

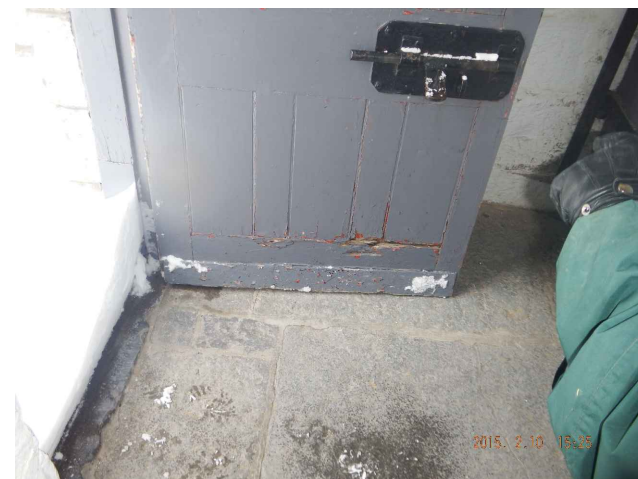
NOTE: BOARDS AT TOP ARE ARCH TO BE REPLACED

N.T.S.



REPLACEMENT OF SPLIT PANEL & TYPICAL HERITAGE HINGES

N.T.S.



TYPICAL BOTTOM RAIL REPLACEMENT

N.T.S.

NOTE:

- ASSUME "TYPICAL DOOR REPAIRS" FOR ALL COMPONENTS AS LISTED DIRECTLY BELOW FOR ALL DOORS UNLESS COMPONENT IS OTHERWISE NOTED "UNDER SPECIFIC DOOR REPAIRS".
- "STRIP AND REPAINT" AS NOTED BELOW REFERS TO THE FULL STRIPPING/REMOVAL OF ALL EXISTING PAINT TO BARE WOOD, EPOXY FILLING WHERE REQUIRED AND THE APPLICATION OF SPECIFIED EXTERIOR PAINT, AT EXTERIORS, AND INTERIOR PAINT AT INTERIORS (INCLUDING APPROPRIATE PRIMERS)

TYPICAL DOOR REPAIRS - BLOCKS 4 TO 8

1. REMOVE AND REHANG DOOR SQUARE IN OPENING.
2. REPLACE EXTERIOR SWEEP
3. REPLACE THRESHOLD.
4. REMOVE ANY MODERN HARDWARE AS DIRECTED BY DEPARTMENTAL REPRESENTATIVE
5. ALL HERITAGE HARDWARE TO BE REMOVED, CLEANED, REPAINTED AND REINSTALLED.
6. STRIP AND REPAINT, EPOXY FILL WHERE REQUIRED.
7. ENSURE ALL LOCK BOXES ARE OPERABLE AND REPAIR AS REQUIRED.
8. REPLACE DOOR COVERING ELECTRICAL PLUGS AT JAMB TO MATCH EXISTING.
9. REPLACE ALL GLAZING IN TRANSOMS WITH NEW MATCHING GLASS.
10. SEAL ABOVE TRANSOM HEAD AT EDGE OF DOOR CASINGS.
11. REPLACE HEAD JAMB CASING BOARD. PROVIDE DAMP PROOF MEMBRANE BETWEEN WOOD AND MASONRY.

NOTE: ENSURE OUTWARD BEVEL AT TOP EDGE OF ALL RAILS

SPECIFIC DOOR REPAIRS		SPECIFIC DOOR REPAIRS	
LOCATION	BLOCK 04	LOCATION	BLOCK 07
D4-01	1. RETAIN TRANSOM GLAZING. 2. REPLACE TRANSOM HEAD CASING BOARD AND PROVIDE DAMP PROOF MEMBRANE BETWEEN WOOD AND STONE.	D7-01	1. TYPICAL REPAIR 2. REMOVE IRON BAR AT TRANSOM TO SHOP FOR STRIPPING, PRIMING AND REPAINTING. 3. REPLACE IRON BOLT WITH STAINLESS STEEL BOLT SET IN LEAD SLEEVE, PRE-DRILLED INTO MASONRY. MATCH BOLT HEAD SIZE AND SHAPE TO EXISTING. PAINT BLACK TO MATCH. 4. REINSTATE TRANSOM BAR TO ORIGINAL POSITION. 5. REPLACE BOTTOM RAIL.
LOCATION	BLOCK 05	D7-02	1. TYPICAL REPAIR 2. REMOVE IRON BAR AT TRANSOM TO SHOP FOR STRIPPING, PRIMING AND REPAINTING. 3. REPLACE IRON BOLT WITH STAINLESS STEEL BOLT SET IN LEAD SLEEVE, PRE-DRILLED INTO MASONRY. MATCH BOLT HEAD SIZE AND SHAPE TO EXISTING. PAINT BLACK TO MATCH. 4. REINSTATE TRANSOM BAR TO ORIGINAL POSITION.
D5-01	1. REMOVE ALL BOARDS. 2. REPLACE UPPER FRAMING BELOW ARCH WITH PRESERVATIVE TREATED WOOD. SEPARATE WOOD FROM MASONRY WITH DAMP PROOF MEMBRANE SUCH AS BLUESKIN. 3. REPLACE FOUR(4) BOARDS AT ARCH. 4. PAINT THE BACKSIDE OF ALL BOARDS DURING REPAINTING OPERATIONS.	D7-03	1. TYPICAL REPAIR
D5-02	1. REPLACE HEAD JAMB AND CASING 2. CUT OUT BOTTOM 254MM OF DOOR JAMB AND REPLACE TO EXACTLY MATCH EXISTING (BOTH SIDES)	D7-04	1. REPLACE TRANSOM HEAD JAMB 2. FILL HOLE AT PANEL WITH WOODEN DUTCHMAN. 3. PROVIDE NEW STRIKE FOR LATCH. REPLACE SPLIT BOTTOM PANEL.
D5-03	1. REPLACE HEAD JAMB AND CASING. 2. CUT OUT BOTTOM 254MM OF DOOR JAMB AND REPLACE TO EXACTLY MATCH EXISTING (BOTH SIDES). 3. REPLACE BOTTOM RAIL.	D7-05	1. REPLACE TRANSOM HEAD JAMB
LOCATION	BLOCK 06	D7-06	1. TYPICAL REPAIR
D6-01	1. TYPICAL REPAIR	LOCATION	BLOCK 08
D6-02	1. CUT OUT BOTTOM 254mm OF DOOR JAMB AND REPLACE TO EXACTLY MATCH EXISTING (BOTH SIDES)	D8-01	1. TYPICAL REPAIR
D6-03	1. REBUILD LOWER PORTION OF DOOR INCLUDING BOTTOM RAIL, PANELS AND STILES. 2. REPLACE TO GENERALLY MATCH EXISTING BUT PRESERVATIVE TREAT ALL TENONS AND END GRAIN.	D8-02	1. REPLACE MISSING CASING BOARDS AT JAMBS
D6-04	1. TYPICAL REPAIR		
D6-05	1. TYPICAL REPAIR 2. REMOVE IRON BAR AT TRANSOM TO SHOP FOR STRIPPING, PRIMING AND REPAINTING. 3. REPLACE IRON BOLT WITH STAINLESS STEEL BOLT SET IN LEAD SLEEVE, PRE-DRILLED INTO MASONRY. MATCH BOLT HEAD SIZE AND SHAPE TO EXISTING. PAINT BLACK TO MATCH. 4. REINSTATE TRANSOM BAR TO ORIGINAL POSITION.		
D6-06	1. TYPICAL REPAIR 2. REMOVE IRON BAR AT TRANSOM TO SHOP FOR STRIPPING, PRIMING AND REPAINTING. 3. REPLACE IRON BOLT WITH STAINLESS STEEL BOLT SET IN LEAD SLEEVE, PRE-DRILLED INTO MASONRY. MATCH BOLT HEAD SIZE AND SHAPE TO EXISTING. PAINT BLACK TO MATCH. 4. REINSTATE TRANSOM BAR TO ORIGINAL POSITION.		



REPLACEMENT OF CASING BOARDS AT JAMBS- RIGHT SIDE SHOWN

N.T.S.



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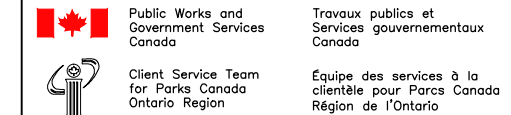
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Canada



André Scheinman
HERITAGE PRESERVATION CONSULTANT

Project title / Titre du projet

FORT HENRY NATIONAL HISTORIC SITE OF CANADA: CURTAINWALL REVETMENT CONSERVATION

KINGSTON ONTARIO

Drawing title / Titre du dessin

MASONRY, WINDOW AND DOOR REPAIRS – DOOR REPAIR DETAILS

Scale / Échelle
NOT TO SCALE

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30026566		S18
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TYPICAL FULL DOOR REPLACEMENT - D10-01
N.T.S.



TYPICAL CONDITION AT JAMBS WITH PREVIOUS DUTCHMAN REPAIR
N.T.S.

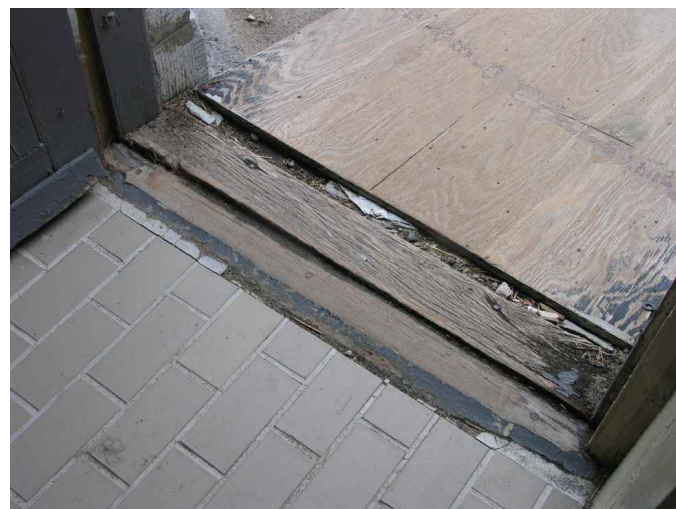
DUTCHMAN TO BE REPLACED



MODEL DOOR - D10-02
N.T.S.



MODEL DOOR - D10-02
N.T.S.



THRESHOLD TO BE REPLACED - D10-01
N.T.S.



ELECTRICAL DOOR COVER SHOWN WITH OUT COVER IN PLACE
N.T.S.

MAGNETIC LATCH TO HOLD DOOR IN PLACE



ELECTRICAL DOOR COVER SHOWN WITH COVER IN PLACE
N.T.S.

NOTE:

- ASSUME "TYPICAL DOOR REPAIRS" FOR ALL COMPONENTS AS LISTED DIRECTLY BELOW FOR ALL DOORS UNLESS COMPONENT IS OTHERWISE NOTED "UNDER SPECIFIC DOOR REPAIRS".
- "STRIP AND REPAINT" AS NOTED BELOW REFERS TO THE FULL STRIPPING/REMOVAL OF ALL EXISTING PAINT TO BARE WOOD, EPOXY FILLING WHERE REQUIRED AND THE APPLICATION OF SPECIFIED EXTERIOR PAINT, AT EXTERIORS, AND INTERIOR PAINT AT INTERIORS (INCLUDING APPROPRIATE PRIMERS)

TYPICAL DOOR REPAIRS - BLOCKS 9 AND 10

1. REMOVE AND REHANG DOOR SQUARE IN OPENING.
2. REPLACE EXTERIOR SWEEP
3. REPLACE THRESHOLD.
4. REMOVE ANY MODERN HARDWARE AS DIRECTED BY DEPARTMENTAL REPRESENTATIVE
5. ALL HERITAGE HARDWARE TO BE REMOVED, CLEANED, REPAINTED AND REINSTALLED.
6. STRIP AND REPAINT, EPOXY FILL WHERE REQUIRED.
7. ENSURE ALL LOCK BOXES ARE OPERABLE AND REPAIR AS REQUIRED.
8. REPLACE DOOR COVERING ELECTRICAL PLUGS AT JAMB TO MATCH EXISTING.
9. REPLACE ALL GLAZING IN TRANSOMS WITH NEW MATCHING GLASS. APPLY OPAQUE FILM TO ALL TRANSOMS AT BLOCK 10, UPON APPROVAL OF MOCK UP BY THE DEPARTMENTAL REPRESENTATIVE, PRIOR TO INSTALLATION.
10. SEAL ABOVE TRANSOM HEAD AT EDGE OF DOOR CASINGS.
11. REPLACE HEAD JAMB CASING BOARD, PROVIDE DAMP PROOF MEMBRANE BETWEEN WOOD AND MASONRY.

SPECIFIC DOOR REPAIRS

LOCATION	DESCRIPTION
D9-01	BLOCK 09 1. FULL REPLACEMENT OF DOOR. 2. REPLACE HEAD JAMB. 3. FILL CRACKS AT UPPER LATCH JAMB. 4. REMOVE MODERN HASP. 5. REPLACE JAMBS
D10-01	BLOCK 10 1. FULL REPLACEMENT OF DOOR. 2. REMOUNT LATCH. 3. REPAIR PREVIOUS JAMB DUTCHMAN. 4. FILL GAP AT HEAD JAMB WITH FLEXIBLE FILLER 5. REPLACE SMALL DUTCHMAN ON LATCH JAMB. 6. HINGE AND LATCH JAMB CASING/MOULDING MISSING LOWER PIECE. REPLACE AS REQUIRED. 7. FILL CRACK AT EMBRASURE. 8. SCRAPE, FILL AND REPAINT JAMB/CASING WHERE REQUIRED. 9. REPLACE LOWER DUTCHMAN ON LATCH JAMB EXTEND UP 1200mm (PAST SPLIT). 10. REPLACE THRESHOLD, INTERIOR AND EXTERIOR.
D10-02	USE AS TYPICAL MODEL DOOR 1. FILL HOLES IN UPPER EMBRASURE. 2. REPLACE HEAD JAMB TO MATCH EXISTING. 3. REPLACE LATCH JAMB. 4. REPLACE BOTTOM RAIL OF DOOR.
D10-03	1. REPLACE OUTSIDE SOFFIT BOARD. 2. FILL HOLE IN CRACK IN EMBRASURE BY ELECTRICAL OUTLET DOOR. 3. REPLACE DUTCHMAN ON LATCH JAMBS AND EXTEND UP 100mm MORE. 4. REPAIR LOWER HINGE JAMB WITH 200mm DUTCHMAN. 5. REPLACE HEAD JAMB. 6. SEAL KNOTS ON DOOR.
D10-04	1. INSTALL PANEL MOULDINGS WHERE MISSING AT INTERIOR PANELS OF DOOR TO MATCH TYPICAL PROFILE. 2. RESET INNER BOARD OF UPPER SOFFIT AND MOULDING. 3. REPLACE DUTCHMAN ON LATCH JAMB AND EXTEND UP 100mm FURTHER. 4. REPAIR LOWER HINGE JAMB WITH 150mm DUTCHMAN.
D10-05	1. REPLACE UPPER MOULDING AND INTERIOR SOFFIT. 2. REFASTEN BOARD ON HINGE JAMB. 3. REPLACE LOWER HINGE JAMB DUTCHMAN.
D10-06	1. FULL REPLACEMENT OF DOOR. 2. FULL JAMB REPLACEMENT. 3. RESET UPPER SOFFIT BOARDS AND FILL AS REQUIRED. 4. MISSING ESCUTCHEON. REPLACE ON NEW DOOR. 5. REPLACE ONE TRANSOM CHAIN.
D10-07	1. FULL REPLACEMENT OF DOOR. 2. REPLACE LATCH TO MATCH ORIGINAL, SUPPLIED BY OTHERS. 3. REPLACE HEAD OF CASING. 4. REPLACE SOFFIT BOARDS.



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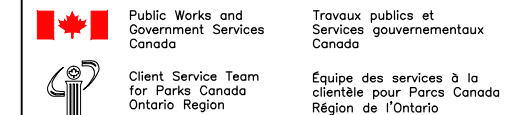
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FORT HENRY NATIONAL HISTORIC SITE OF CANADA: BLOCK 10 WEST INTERIOR REVETMENT CONSERVATION

KINGSTON ONTARIO

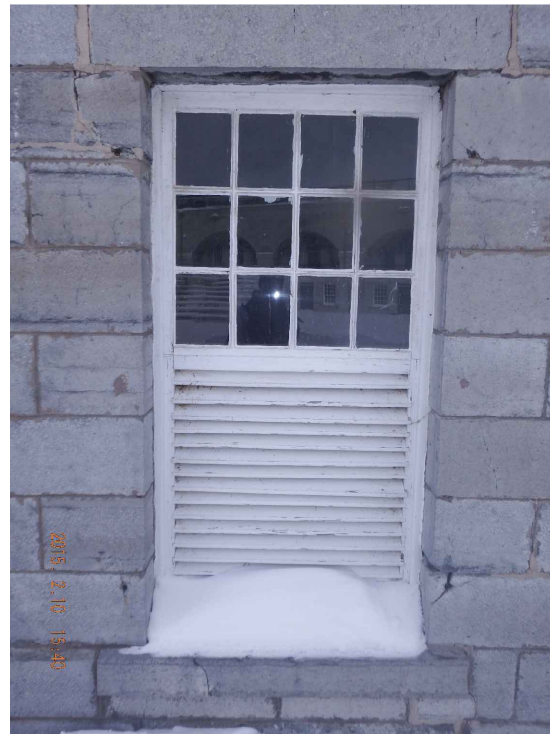
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MASONRY, WINDOW AND DOOR REPAIRS - DOOR REPAIR DETAILS CON'T

Scale / Échelle
NOT TO SCALE

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Drawing Reference No./Numéro de Référence du Dessin		



TYPICAL LOUVERED WINDOW
N.T.S.



TYPICAL BARS OVER WINDOW
N.T.S.



TYPICAL IRON PLUG TO BE REMOVED
N.T.S.



TYPICAL INTERIOR SILL REPLACEMENT
N.T.S.



HEAD STOP REPLACEMENT
N.T.S.

NOTE:

- ASSUME "TYPICAL WINDOW REPAIRS" FOR ALL COMPONENTS AS LISTED DIRECTLY BELOW FOR ALL WINDOWS UNLESS COMPONENT IS OTHERWISE NOTED "UNDER SPECIFIC WINDOWS REPAIRS".
- "STRIP AND REPAINT" AS NOTED BELOW REFERS TO THE FULL STRIPPING/REMOVAL OF ALL EXISTING PAINT TO BARE WOOD, EPOXY FILLING WHERE REQUIRED AND THE APPLICATION OF SPECIFIED EXTERIOR PAINT, AT EXTERIORS, AND INTERIOR PAINT AT INTERIORS (INCLUDING APPROPRIATE PRIMERS)

TYPICAL WINDOW/SHUTTER REPAIRS - BLOCKS 4 TO 8

WINDOW REPAIRS:

1. REPLACE FULL SASH c/w NEW GLAZING.
2. REPLACE FULL JAMB AND CASING COMPLETE WITH BOX, PULLEYS, CHORDS AND WEIGHTS TO MATCH ORIGINAL.
3. FULL PUTTY REPLACEMENT.
4. STRIP AND REPAINT.
5. SEAL ALL KNOTS AS REQUIRED WITH SHELLAC PRIOR TO REPAINTING.
6. PROVIDE LOCKING PINS COMPLETE WITH HOLE IN SASH AND CHAIN.

SHUTTER REPAIRS:

1. STRIP AND REPAINT.
2. REMOVE AND PLANE BOTTOM, IF NECESSARY, AND REHANG TO PERMIT EASY OPERABILITY.
3. EXPOSE SHUTTER CATCH BUTTONS AND MAKE OPERABLE.
4. FILL CRACKS AND/OR GAPS AS REQUIRED.

SPECIFIC WINDOW/SHUTTER REPAIRS

WINDOW LOCATION	BLOCK 04	WINDOW LOCATION	BLOCK 07
W4-01	1. RETAIN SASH AND REPUTTY EXISTING GLAZING	W7-01	1. RETAIN SASH AND STRIP, PUTTY AND REPAINT.
	2. STRIP LOUVERS TO BARE WOOD, PRIME AND REPAINT	W7-02	1. RETAIN SASH AND STRIP, PUTTY AND REPAINT.
	3. REPLACE ROTTED NAILERS AT INTERIOR WITH PRESERVATIVE TREATED WOOD, REINSTATE STOOL BOARDS WITH NEW BOARD TO FINISH AT LEDGE.	W7-03	1. RETAIN SASH AND STRIP, PUTTY AND REPAINT. 2. REMOVE IRON BARS TO SHOP FOR STRIPPING, PRIMING AND REPAINTING. 3. REPLACE IRON BOLT WITH STAINLESS STEEL BOLT SET IN LEAD SLEEVE, PRE-DRILLED INTO MASONRY. MATCH BOLT HEAD SIZE AND SHAPE TO EXISTING. PAINT BLACK TO MATCH. 4. REINSTATE BARS TO ORIGINAL POSITION.
W6-01	1. TYPICAL REPAIR	W7-04	1. RETAIN SASH. 2. REMOVE IRON BARS TO SHOP FOR STRIPPING, PRIMING AND REPAINTING. 3. REPLACE IRON BOLT WITH STAINLESS STEEL BOLT SET IN LEAD SLEEVE, PRE-DRILLED INTO MASONRY. MATCH BOLT HEAD SIZE AND SHAPE TO EXISTING. PAINT BLACK TO MATCH. 4. REINSTATE BARS TO ORIGINAL POSITION.
W6-02	1. RETAIN SASH AND STRIP, PUTTY AND REPAINT.		1. RETAIN SASH AND STRIP, PUTTY AND REPAINT.
W6-03	1. REPLACE HEAD STOP. 2. RETAIN SASH AND STRIP, PUTTY AND REPAINT.	W7-05	1. RETAIN SASH AND STRIP, PUTTY AND REPAINT.
W6-04	1. RETAIN SASH AND STRIP, PUTTY AND REPAINT.	W7-06	1. RETAIN SASH AND STRIP, PUTTY AND REPAINT.
W6-05	1. TYPICAL WINDOW REPAIR	W7-07	1. RETAIN SASH AND STRIP, PUTTY AND REPAINT.
	2. REMOVE IRON BARS TO SHOP FOR STRIPPING, PRIMING AND REPAINTING. 3. REPLACE IRON BOLT WITH STAINLESS STEEL BOLT SET IN LEAD SLEEVE, PRE-DRILLED INTO MASONRY. MATCH BOLT HEAD SIZE AND SHAPE TO EXISTING. PAINT BLACK TO MATCH. 4. REINSTATE BARS TO ORIGINAL POSITION.	W7-08	1. RETAIN SASH AND STRIP, PUTTY AND REPAINT. 2. STRIP LOUVERS TO BARE WOOD, PRIME AND REPAINT. 3. REPLACE ROTTED NAILERS AT INTERIOR WITH PRESERVATIVE TREATED WOOD, REINSTATE STOOL BOARDS WITH NEW BOARD TO FINISH AT LEDGE.
1. TYPICAL WINDOW REPAIR. 2. REMOVE IRON BARS TO SHOP FOR STRIPPING, PRIMING AND REPAINTING. 3. REPLACE IRON BOLT WITH STAINLESS STEEL BOLT SET IN LEAD SLEEVE, PRE-DRILLED INTO MASONRY. MATCH BOLT HEAD SIZE AND SHAPE TO EXISTING. PAINT BLACK TO MATCH. 4. REINSTATE BARS TO ORIGINAL POSITION.			
W6-06	1. TYPICAL WINDOW REPAIR		
W6-07	1. TYPICAL WINDOW REPAIR		
W6-08	1. RETAIN SASH		



3	APR 15	ISSUED FOR TENDER	S.M.E	S.T.R
2	MAR 15	FOR 99% REVIEW	S.M.E	S.T.R.
1	JAN 15	FOR 66% REVIEW	S.M.E	S.T.R.

No.	Date	Description	Drawn by Dessine par	Approved Approuvé
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Revision / Révision



A Detail number
No. du détail
B Location dwg. no.
No. sur dessin
C Drawing sheet no.
No. du dessin



Client Acceptance / Acceptation du client
Signature _____ Date _____
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Public Works and
Government Services
Canada

Travaux publics et
Services gouvernementaux
Canada



Client Service Team
for Parks Canada
Ontario Region

Équipe des services à la
clientèle pour Parcs Canada
Région de l'Ontario

Canada

MMM GROUP



André Scheinman
HERITAGE PRESERVATION CONSULTANT

Project title / Titre du projet

**FORT HENRY NATIONAL
HISTORIC SITE OF CANADA:
CURTAINWALL REVETMENT
CONSERVATION**

KINGSTON

ONTARIO

Drawing title / Titre du dessin

**MASONRY, WINDOW AND DOOR
REPAIRS –
WINDOW REPAIR DETAILS**

Scale / Échelle

NOT TO SCALE

Drawn by/ Dessiné par _____ Date _____
S.M.E MARCH 2015

Designed by/ Conçu par _____ Date _____
S.T.R MARCH 2015

Checked by/ Vérifié par _____ Date _____
D.A.H MARCH 2015

Approved by / Approuvé par _____ Date _____

Project No./No. du projet 30026566 Client No./No du Client _____ Sheet No./
Feuille No. _____

Drawing Reference No./Numéro de Référence du Dessin _____ **S20**



TYPICAL 1938 ORIGINAL WINDOW CONDITION - W9-01
N.T.S.



TYPICAL INTERIOR OF UNIT REQUIRING FULL REPLACEMENT - W10-03
N.T.S.



ROUT CRACK TO A MINIMUM WIDTH OF 6mm, OR AS DIRECT BE DEPARTMENTAL REPRESENTATIVE, AND APPLY SPECIAL MASONRY JOINT FINISH SEALANT

UNIT REQUIRING FULL REPLACEMENT
N.T.S.



TYPICAL INTERIOR OF ORIGINAL 1938 UNIT - W10-07
N.T.S.

NOTE:

- ASSUME "TYPICAL WINDOW REPAIRS" FOR ALL COMPONENTS AS LISTED DIRECTLY BELOW FOR ALL WINDOWS UNLESS COMPONENT IS OTHERWISE NOTED "UNDER SPECIFIC WINDOWS REPAIRS".
- "STRIP AND REPAINT" AS NOTED BELOW REFERS TO THE FULL STRIPPING/REMOVAL OF ALL EXISTING PAINT TO BARE WOOD, EPOXY FILLING WHERE REQUIRED AND THE APPLICATION OF SPECIFIED EXTERIOR PAINT, AT EXTERIORS, AND INTERIOR PAINT AT INTERIORS (INCLUDING APPROPRIATE PRIMERS)

TYPICAL WINDOW/SHUTTER REPAIRS

WINDOW REPAIRS:

1. REPLACE FULL SASH c/w NEW GLAZING.
2. APPLY OPAQUE FILM, AS APPROVED BY THE DEPARTMENTAL REPRESENTATIVE, TO ALL NEW GLAZING IN BLOCK 10 PRIOR TO INSTALLATION OF GLAZING INTO SASH.
3. REPLACE FULL JAMB AND CASING COMPLETE WITH BOX, PULLEYS, CHORDS AND WEIGHTS TO MATCH ORIGINAL.
4. FULL PUTTY REPLACEMENT.
5. STRIP AND REPAINT.
6. SEAL ALL KNOTS AS REQUIRED WITH SHELLAC PRIOR TO REPAINTING.
7. PROVIDE LOCKING PINS COMPLETE WITH HOLE IN SASH AND CHAIN.

SHUTTER REPAIRS:

1. STRIP AND REPAINT.
2. REMOVE AND PLANE BOTTOM, IF NECESSARY, AND REHANG TO PERMIT EASY OPERABILITY.
3. EXPOSE SHUTTER CATCH BUTTONS AND MAKE OPERABLE.
4. FILL CRACKS AND/OR GAPS AS REQUIRED.

SPECIFIC WINDOW/SHUTTER REPAIRS

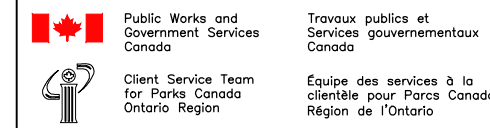
WINDOW LOCATION		WINDOW LOCATION	
W9-01 (ORIGINAL 1938 UNIT)	<ol style="list-style-type: none"> 1. RETAIN SASH. 2. RETAIN JAMB AND BOX, CHECK WEIGHTS, PULLEYS AND REPLACE SASH CHORDS. 3. FULL STOOL REPLACEMENT. 4. REPLACE BOTTOM STOP. 5. REPLACE DUTCHMAN REPAIR AT BOTTOM OF LOWER CASING. 6. FILL AROUND UPPER CASING. 7. REPLACE SILL. 8. REPAIR LOWER JAMB AND EXTERIOR STOP USING DUTCHMAN REPAIR 9. REPLACE BOTTOM RAIL OF LOWER SASH 	W10-07 (ORIGINAL 1938 UNIT)	<ol style="list-style-type: none"> 1. RETAIN SASH. 2. REMOVE FILM ON GLAZING. 3. RETAIN JAMB AND BOX, CHECK WEIGHTS, PULLEYS AND REPLACE SASH CHORDS. 4. FILL LOCKING PIN HOLES AND REDRILL TO PROPER DIAMETER. 5. GLUE AND CLAMP RAIL BOTTOM OF LOWER SASH TO TIGHTEN GAP. FILL ONLY GAP REMAINING AFTER CLAMP PROCEDURE. CUT OUT ROT AT RAIL AND FILL WITH EPOXY PATCHING COMPOUND. 6. RIGHT HAND RAIL MAY HAVE SMALL AMOUNT OF ROT. REPAIR AS REQUIRED. 7. REPLACE ONE SASH LOCKING PIN COMPLETE WITH CHAIN. 8. REMOVE UPPER MOULDING AND FILL GAP WITH FLEXIBLE FILLER. 9. REPLACE SILL TO MATCH MODEL. 10. CUT OUT DECAY AND INSTALL 250mm DUTCHMAN ON LOWER EXTERIOR STOP. 11. REMOVE BLOCKS BENEATH SASH TO PERMIT OPERATION. 12. FILL GAP ON UPPER STOP.
W10-01 (ORIGINAL 1938 UNIT)	<ol style="list-style-type: none"> 1. RETAIN SASH. 2. RETAIN JAMB AND BOX, CHECK WEIGHTS, PULLEYS AND REPLACE SASH CHORDS. 3. RESET INNER SECTION OF STOOL CLOSER TO LEVEL. FILL GAP WITH FLEXIBLE FILLER. 4. FILL JOINT AT HEAD JAMB WITH FLEXIBLE FILLER. 5. ANCHOR INTERIOR CASING AND CAULK AS REQUIRED. 6. REPLACE LOWER SILL. 7. REPLACE PARTING STRIP. 8. REPLACE WEIGHT BOX ETC. 	W10-02	<ol style="list-style-type: none"> 1. REMOVE UPPER MOULDING AND FILL GAP WITH FLEXIBLE FILLER AS REQUIRED. 2. CUT OUT DECAY AND APPLY DUTCHMAN REPAIR AT LOWER RAIL. 3. DUTCHMAN REPAIR AT UPPER SHUTTER POCKET. 4. MAINTAIN ELECTRICAL FEED, REROUTE WIRE IN NEW CONDUIT AS DIRECTED BY DEPARTMENTAL REPRESENTATIVE.
W10-02	<ol style="list-style-type: none"> 1. EPOXY WOOD REPAIR WHERE REQUIRED. 2. REMOVE UPPER MOULDING AND FILL GAP AT SOFFIT WITH FLEXIBLE FILLER. 	W10-03	<ol style="list-style-type: none"> 1. REMOVE UPPER MOULDING AND FILL GAP AT SOFFIT WITH FLEXIBLE FILLER. 2. REMOVE AND RESET INNER BOARD OF STOOL AND FILL GAP AS REQUIRED WITH FLEXIBLE FILLER. 3. RESET CASING TO WALL (TO EXTENT POSSIBLE) RE-SECURE CASING AND CAULK REMAINING GAP BETWEEN STONE AND CASING. 4. REPLACE UPPER SECTION OF SHUTTER POCKET IN SOUND MATCHING WOOD. 5. REMOVE NAILS AND FILL AS REQUIRED.
W10-03	<ol style="list-style-type: none"> 1. REMOVE UPPER MOULDING AND FILL GAP WITH FLEXIBLE FILLER. 2. RESET CASING TO WALL (TO EXTENT POSSIBLE) RE-SECURE CASING AND CAULK REMAINING GAP BETWEEN STONE AND CASING. 3. REMOVE AND RESET STOOL AND FILL GAP WITH FLEXIBLE FILLER AS REQUIRED. 4. REPLACE SHUTTER HANDLE TO MATCH ORIGINAL ON BOTH SHUTTERS. 5. REPLACE SOUTH MIDDLE LEAF OF SHUTTER TO EXACTLY MATCH ORIGINAL. 	W10-04	<ol style="list-style-type: none"> 1. RESET CASING TO WALL (TO EXTENT POSSIBLE) RE-SECURE CASING AND CAULK REMAINING GAP BETWEEN STONE AND CASING. 2. REPLACE UPPER MOULDING. 3. REMOVE AND RESET INNER BOARD OF STOOL AND FILL GAP WITH A FLEXIBLE FILLER. 4. EPOXY FILL SOFFIT.
W10-04	<ol style="list-style-type: none"> 1. REMOVE UPPER MOULDING AND FILL GAP WITH FLEXIBLE FILLER AS REQUIRED. 2. REPLACE KNOB ON SOUTH SHUTTER. 3. REPLACE BALL FOR CATCH ON NORTH SHUTTER. 	W10-05	<ol style="list-style-type: none"> 1. RETAIN SASH. 2. REPLACE DAMAGED GLAZING. 3. RETAIN BOX AND JAMBS, CHECK WEIGHTS, PULLEYS AND REPLACE SASH CHORDS. 4. FILL SASH LOCKING PIN HOLES AND REDRILL TO ORIGINAL DIAMETER. 5. RESET TRIM ON SOFFIT PANEL. 6. REPLACE SILL TO MATCH MODEL. 7. PROVIDE DUTCHMAN AT JAMB, EXTERIOR STOP AND PARTING STRIP AT 300mm FROM BOTTOM ON BOTH JAMBS.
W10-05	<ol style="list-style-type: none"> 1. REMOVE UPPER MOULDING AND FILL GAP WITH FLEXIBLE FILLER AS REQUIRED. 2. REMOVE AND RESET INTERIOR SECTION OF STOOL, MOULDING AND FILL GAP WITH FLEXIBLE FILLER AS REQUIRED. 3. SAND SAP STAINS ON SHUTTER AND SEAL. 4. REMOVE TURNBUCKLE. 	W10-06	
W10-06		W10-11 (ORIGINAL 1938 UNIT)	



3	APR 15	ISSUED FOR TENDER	S.M.E	S.T.R
2	MAR 15	FOR 99% REVIEW	S.M.E	S.T.R.
1	JAN 15	FOR 66% REVIEW	S.M.E	S.T.R.

No.	Date	Description	Drawn by Dessine par	Approved Approuvé
Revision / Révision				
		A Detail number No. du détail		
		B Location dwg. no. No. sur dessin		
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Client Acceptance / Acceptation du client
Signature _____ Date _____
File No./No. de dossier _____



Project title / Titre du projet

FORT HENRY NATIONAL HISTORIC SITE OF CANADA: CURTAINWALL REVETMENT CONSERVATION

KINGSTON ONTARIO

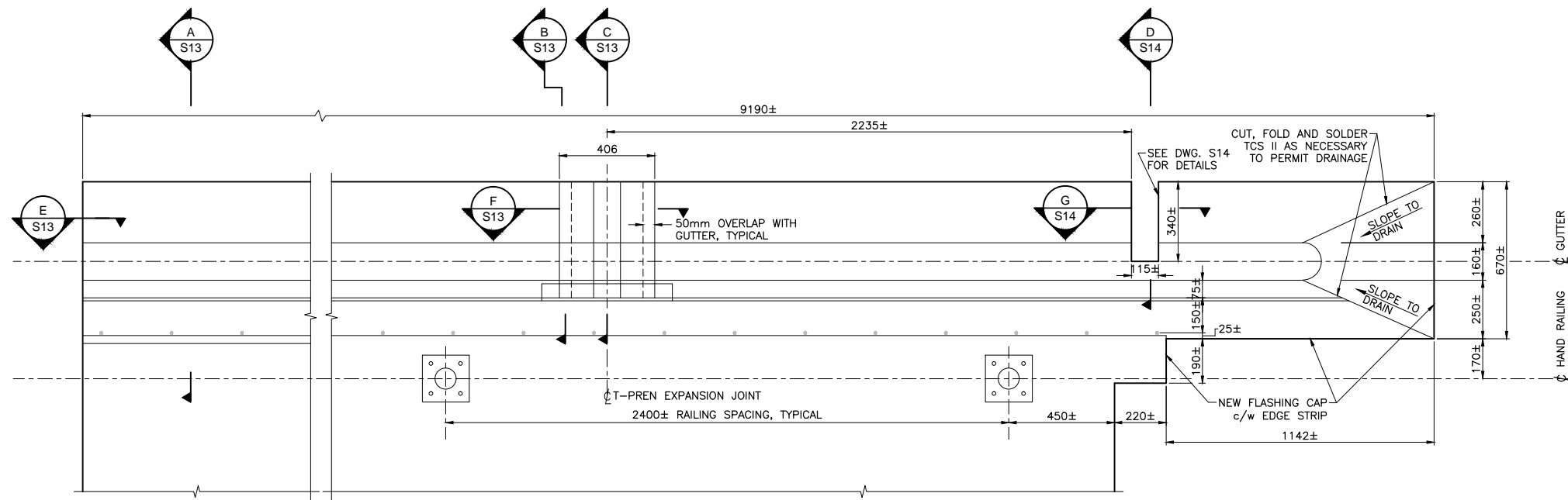
Drawing title / Titre du dessin

MASONRY, WINDOW AND DOOR REPAIRS – WINDOW REPAIR DETAILS CON'T

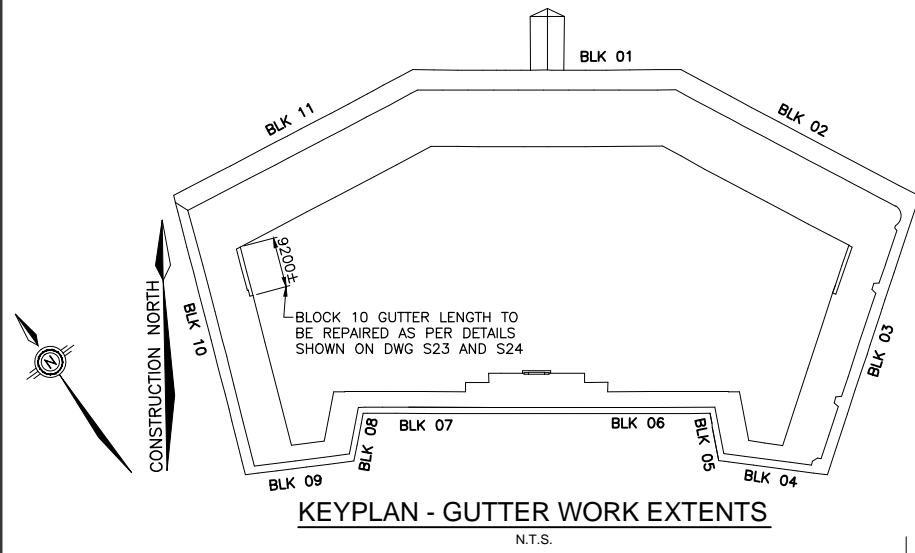
Scale / Échelle
NOT TO SCALE

Drawn by/ Dessiné par	Date
S.M.E	MARCH 2015
Designed by/ Conçu par	Date
S.T.R	MARCH 2015
Checked by/ Vérifié par	Date
D.A.H	MARCH 2015
Approved by / Approuvé par	Date

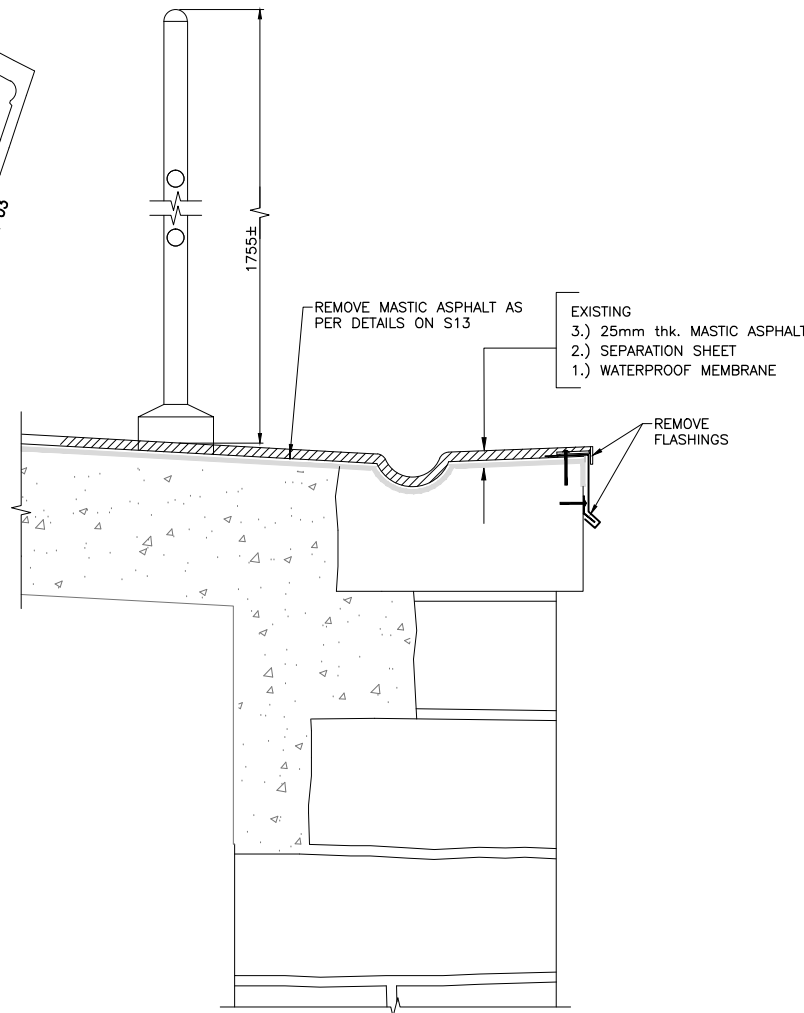
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30026566		S21
Drawing Reference No./Numéro de Référence du Dessin		



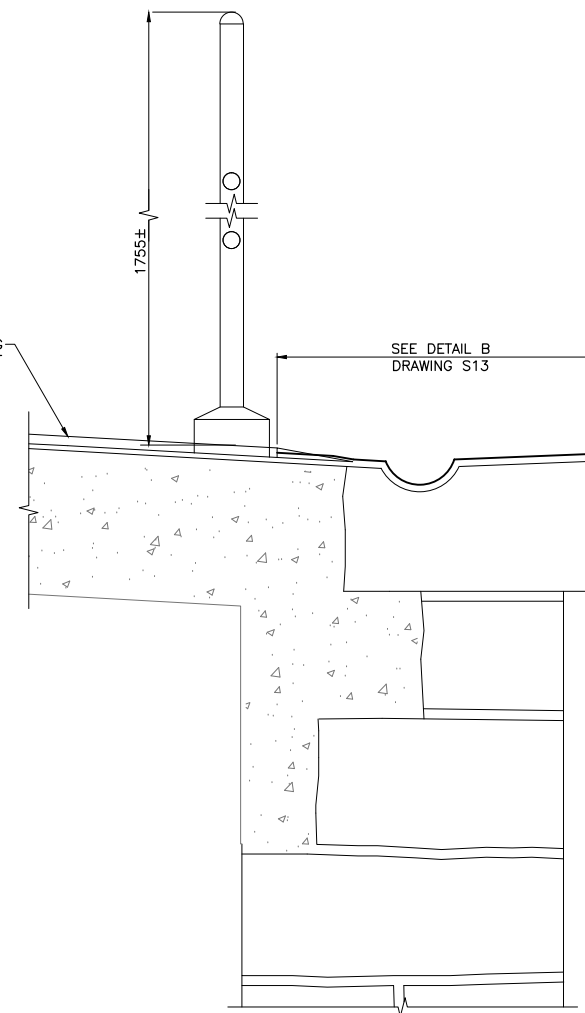
NEW GUTTER PLAN
1:12.5



KEYPLAN - GUTTER WORK EXTENTS
N.T.S.



EXISTING GUTTER SECTION
1:10



NEW GUTTER SECTION
1:10



EXISTING GUTTER
N.T.S.

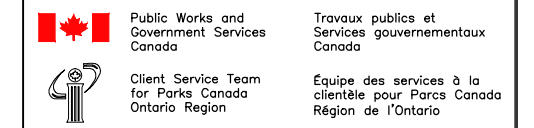
SCOPE OF WORK:
• SEE NOTES ON DRAWING S13 AND S14



1	MAR15'	FOR 99% REVIEW	S.M.E	S.T.R.
No.	Date	Description	Drawn by Dessiné par	Approved Approuvé

Revision / Révision				
A	Detail number No. du détail		A	
B	Location dwg. no. No. sur dessin		B C	
C	Drawing sheet no. No. du dessin			

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Signature _____ Date _____
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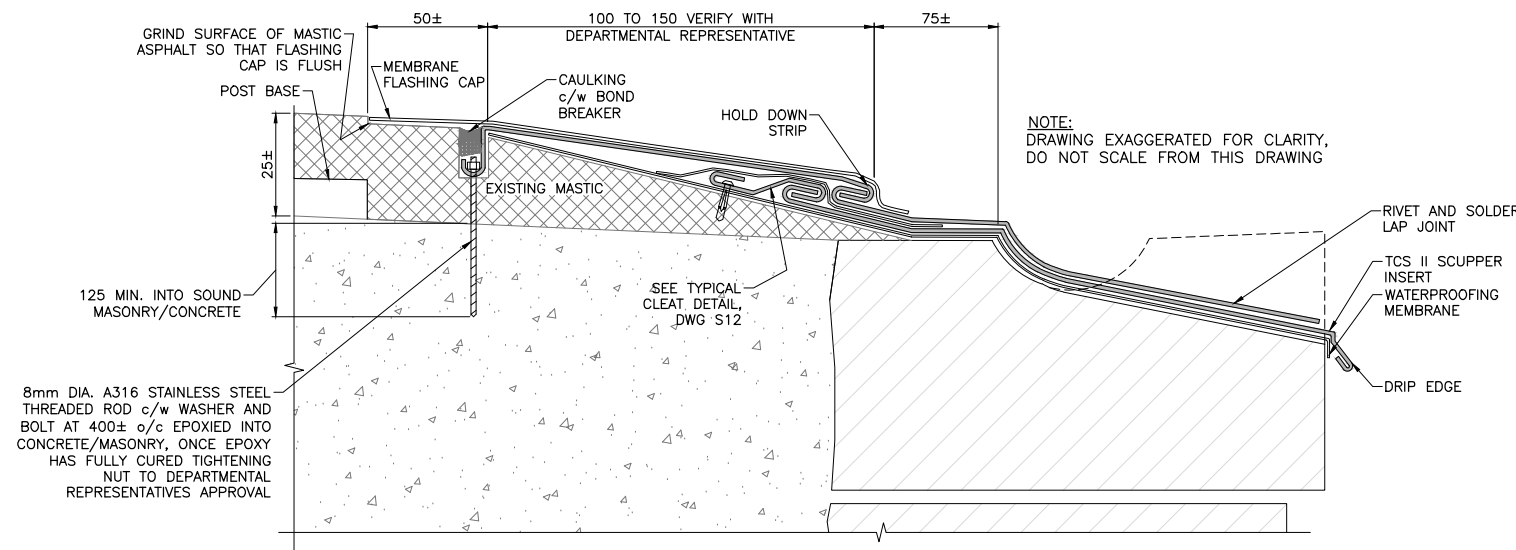
Project title / Titre du projet

FORT HENRY NATIONAL HISTORIC SITE OF CANADA:
CURTAINWALL REVETMENT CONSERVATION
KINGSTON ONTARIO

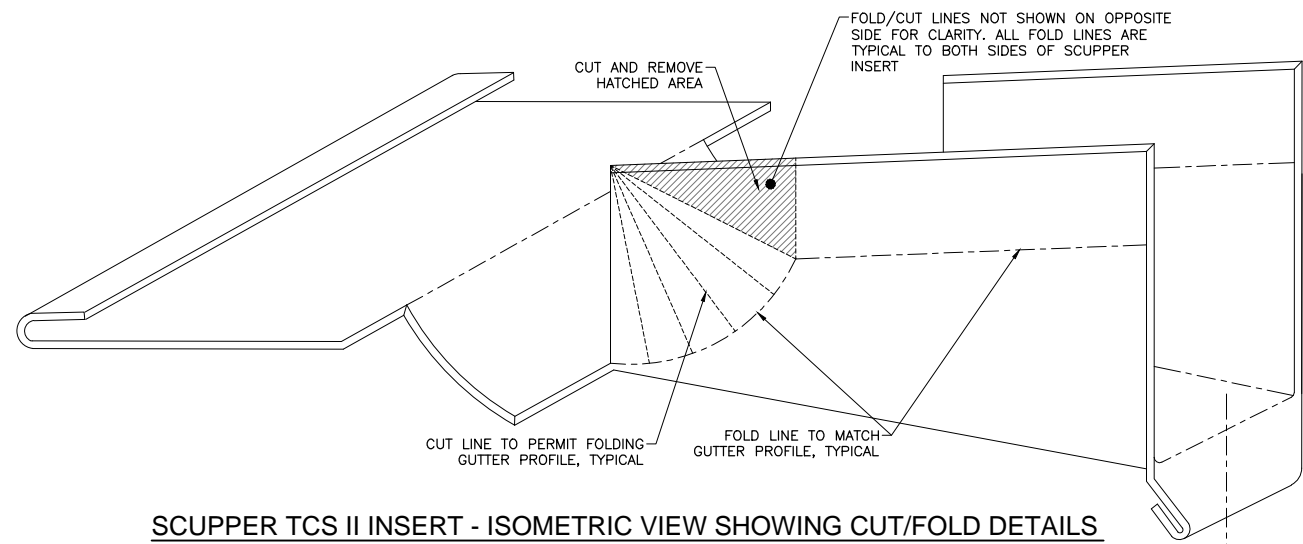
Drawing title / Titre du dessin
MASONRY, WINDOW AND DOOR REPAIRS - TERREPLAIN LEVEL GUTTER REPAIRS

Scale / Échelle NOT TO SCALE	
Drawn by/ Dessiné par S.M.E	Date MARCH 2015
Designed by/ Conçu par S.T.R	Date MARCH 2015
Checked by/ Vérifié par D.A.H	Date MARCH 2015
Approved by / Approuvé par	Date

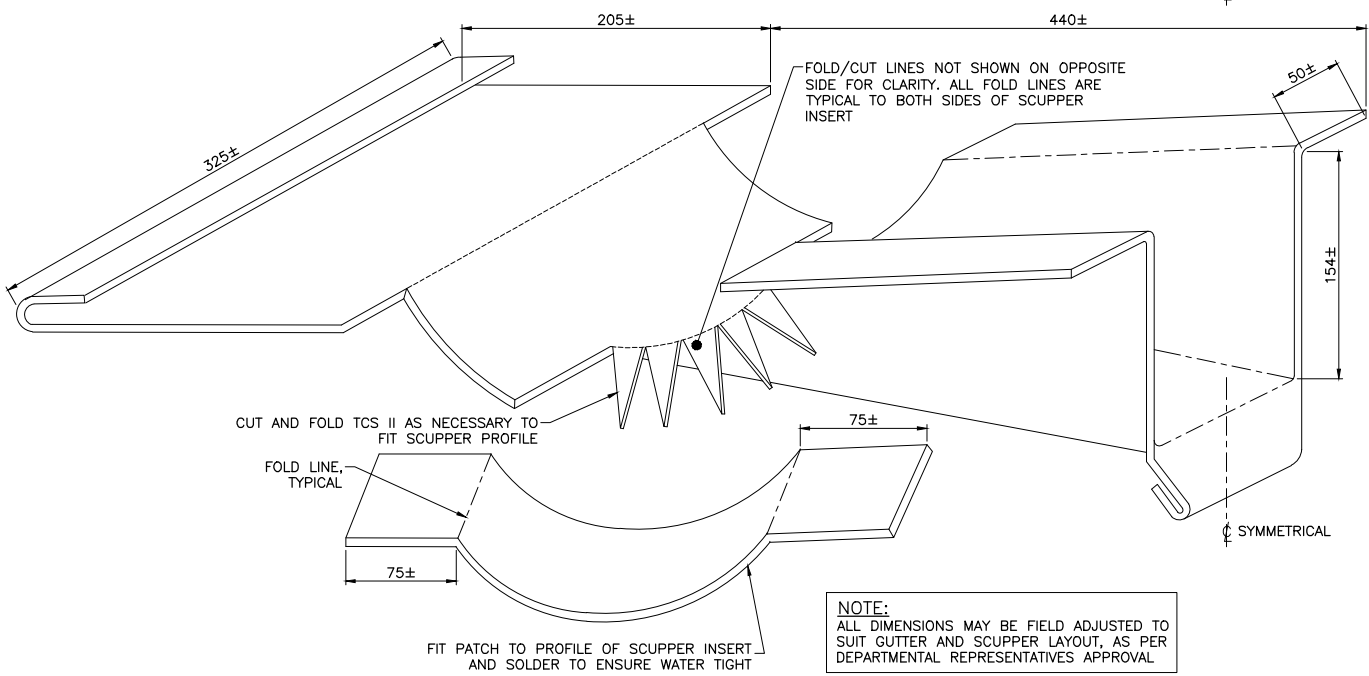
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Drawing Reference No./Numéro de Référence du Dessin		



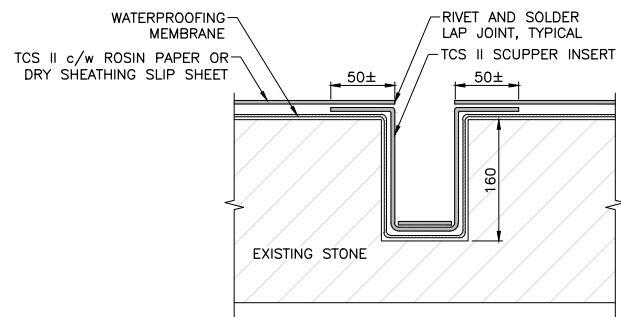
E GUTTER DETAIL AT SCUPPER LOCATION
N.T.S.



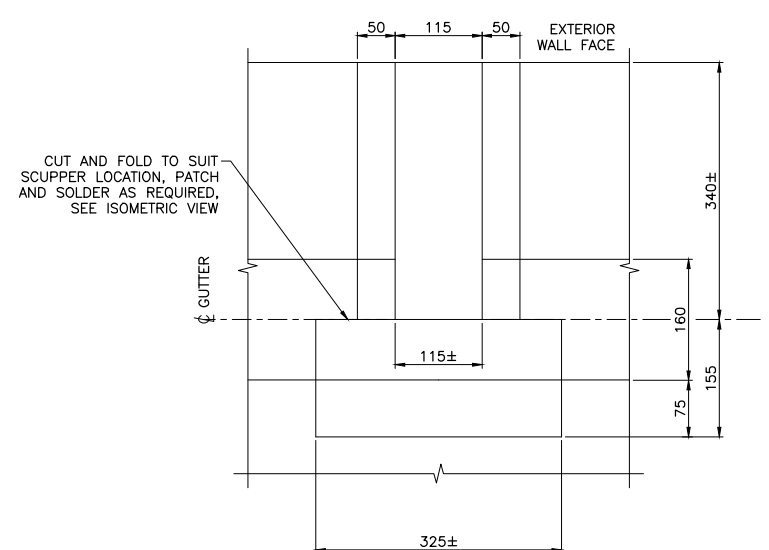
SCUPPER TCS II INSERT - ISOMETRIC VIEW SHOWING CUT/FOLD DETAILS
N.T.S.



SCUPPER TCS II INSERT - ISOMETRIC VIEW
N.T.S.



F TYPICAL SCUPPER DETAIL
N.T.S.



SCUPPER TCS II INSERT
N.T.S.

SCOPE OF WORK, TYPICAL GUTTER:

- INSTALL ALL NECESSARY ACCESS TO COMPLETE THE WORK AS SHOWN ON THIS DRAWING.
- STRIP OFF MASTIC/TAR AND MEMBRANES/FELTS TO MIN. LIMITS SHOWN.
- APPLY ELASTOMERIC MEMBRANE UNDER FULL EXTENT OF EXPOSED AREA.
- APPLY ROSIN PAPER OR DRY SHEATHING AT AREA TO RECEIVE METAL.
- APPLY TCSII GUTTER SECTIONS IN MAX. 1.8m (UNLESS OTHERWISE DIRECTED) LENGTHS, 905mm GIRTH.
- SECTIONS TO BE LAPPED, RIVETED AND SOLDERED.
- PROVIDE TPREN EXPANSION JOINT AT LOCATION INDICATED ON S12 (SEE DETAIL).
- PROVIDE FLASHING/EXPANSION JOINT WHERE GUTTER ABUTS STONE WALL (SEE DETAIL E).
- SECURE LEAD EDGE TO EDGE STRIP AT STONEMWORK; SEAM AND SOLDER BACK EDGE TO CONTINUOUS 'HOLD DOWN' STRIP.
- APPLY LAYER OF MEMBRANE 'FLASHING CAP', AS TIE IN OVER EXISTING MASTIC ASPHALT AND LAPPING TCS II MIN. 150mm.

SCOPE OF WORK, TYPICAL T-PREN JOINT

1. FORM T-PREN SHEET TO GUTTER PROFILE SUCH THAT THE TRUE BOTTOM SIDE (RIDGED WITH WRITING) IS FACE UP (FOR ADHESION PURPOSES DETAILED IN NOTE 3) AND CUT TO LENGTH SUCH THAT BACK EDGE IS AT FACE OF TCS II CONTINUOUS HOLD DOWN STRIP AND 25mm IS FORMED OVER OUTSIDE EDGE OF GUTTER/PARPET, AS SHOWN IN SECTION C.
2. SOLDER T-PREN TCS II STEEL MATERIAL FULL LENGTH ALONG BOTH SIDES AND ACROSS BACK EDGE (CLOSEST TO HOLD DOWN STRIP) TO EDGES OF NEOPRENE
3. APPLY RUBBER ADHESIVE (3M SPRAY 80 OR 3M GENERAL TRIM ADHESIVE PN 08088, OR APPROVED ALTERNATE) TO UNDERSIDE FACE OF NEOPRENE FOR BACK 75mm AND BOND TO CLEAN EXISTING SHEET METAL SURFACE.
4. APPLY PRESSURE/WEIGHT TO TOP OF NEOPRENE TO ENSURE PROPER BOND TO EXISTING METAL. LEAVE IN PLACE FOR FULL CURE TIME AS PER MANUFACTURERS RECOMMENDATIONS.
5. APPLY CAULKING SEAL (TREMCO POLYROOF LV OR APPROVED ALTERNATE), AS SHOWN IN DETAIL C, AT BACK EDGE OF NEOPRENE STRIP AND ALLOW TO CURE AS PER MANUFACTURERS INSTRUCTION.
6. SOLDER 19mm DEEP CLIP ON EACH SIDE OF T-PREN SHEET FULL LENGTH OF BOTH SURFACES ON EITHER SIDE OF GUTTER SUCH THAT A 380mm WIDE CAP STRIP OF TCSII SHEET METAL CAN FEED INTO THE CLIPS, AS SHOWN IN SECTION F.
7. ALLOW 10mm CLEARANCE FOR EXPANSION BETWEEN OUTSIDE EDGE OF TCSII CAP STRIP AND INSIDE LIMIT OF CLIP ON EACH SIDE. (RESULTS IN 20mm TOTAL ALLOWANCE FOR EXPANSION/CONTRACTION).
8. LEAVE CLIPS BENT OPEN AT 90 DEGREES TO ALLOW FOR INSERTION OF TCSII CAP STRIP.
9. FORM TCSII CAP STRIP TO GUTTER PROFILE NEGLECTING THE GUTTER SWALE SUCH THAT THE CAP METAL LIES FLAT ACROSS THE TOP OF THE SWALE AND WATER IS PERMITTED TO FLOW UNDER THE CAP ALONG THE SWALE AS SHOWN IN SECTION C.
10. ENSURE CAP EXTENDS OVER OUTER EDGE OF PARAPET AND BENDS DOWN WALL AT 90 DEGREES TO COVER SIMILAR T-PREN BENT OVERHANG, AS SHOWN IN SECTION C.
11. EXTEND LENGTH OF CAP METAL SUCH THAT IT TERMINATES 25mm FROM THE TCSII HOLD DOWN STRIP
12. PLACE TCSII CAP IN CLIPS AND PRESS CLIPS DOWN FLAT TO SECURE CAP IN PLACE. CLEAN AREA.



1	MAR'12	ISSUED FOR TENDER	M.W.M.	S.T.R.
No.	Date	Description	Drawn by Dessine par	Approved Approuve

Revision / Révision	
A	Detail number No. du détail
B	Location dwg. no. No. sur dessin
C	Drawing sheet no. No. du dessin

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Signature _____ Date _____
File No./No. de dossier _____

Public Works and Government Services Canada / Travaux publics et Services gouvernementaux Canada
Client Service Team for Parks Canada Ontario Region / Équipe des services à la clientèle pour Parcs Canada Région de l'Ontario
Canada



André Scheinman
HERITAGE PRESERVATION CONSULTANT

Project title / Titre du projet
FORT HENRY NATIONAL HISTORIC SITE OF CANADA: CURTAINWALL REVETMENT CONSERVATION
KINGSTON ONTARIO

Drawing title / Titre du dessin
MASONRY, WINDOW AND DOOR REPAIRS - TERREPLAIN LEVEL GUTTER REPAIR DETAILS CON'T

Scale / Échelle NOT TO SCALE	
Drawn by/ Dessiné par S.M.E	Date MARCH 2015
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Checked by/ Vérifié par D.A.H	Date MAR 2015
Approved by / Approuvé par	Date

Project No./No. du projet 30026566	Client No./No du Client	Sheet No./ Feuille No. S24
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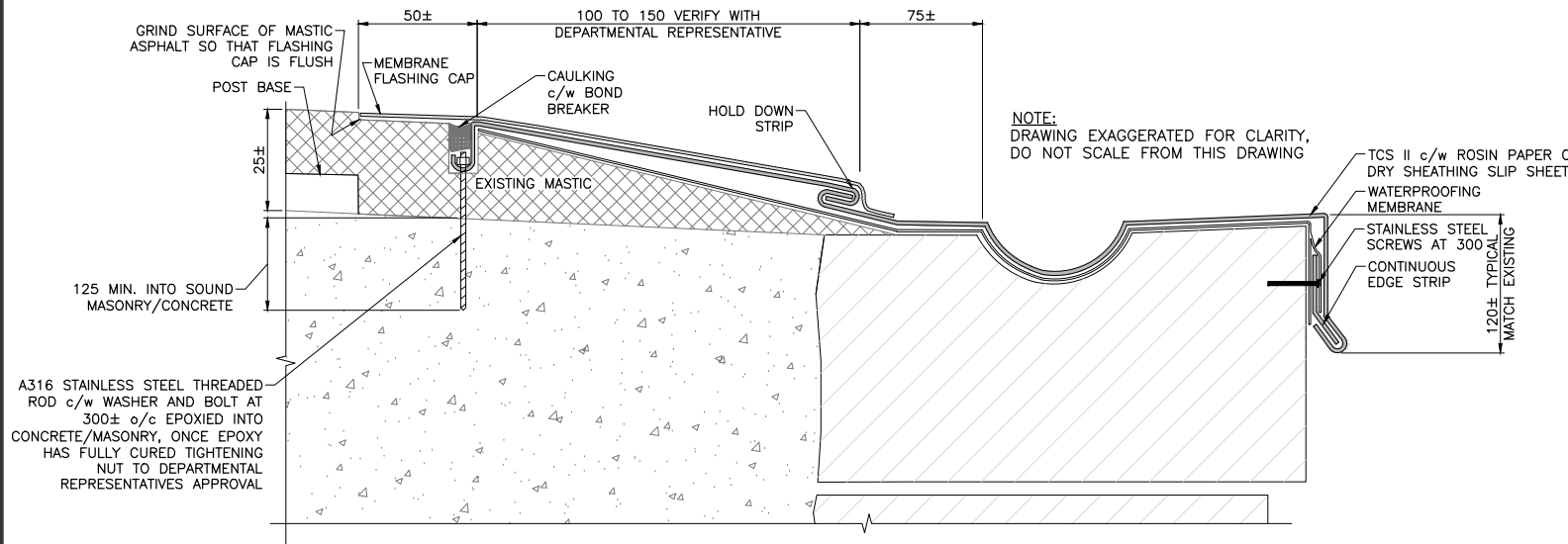


SCOPE OF WORK, TYPICAL GUTTER:

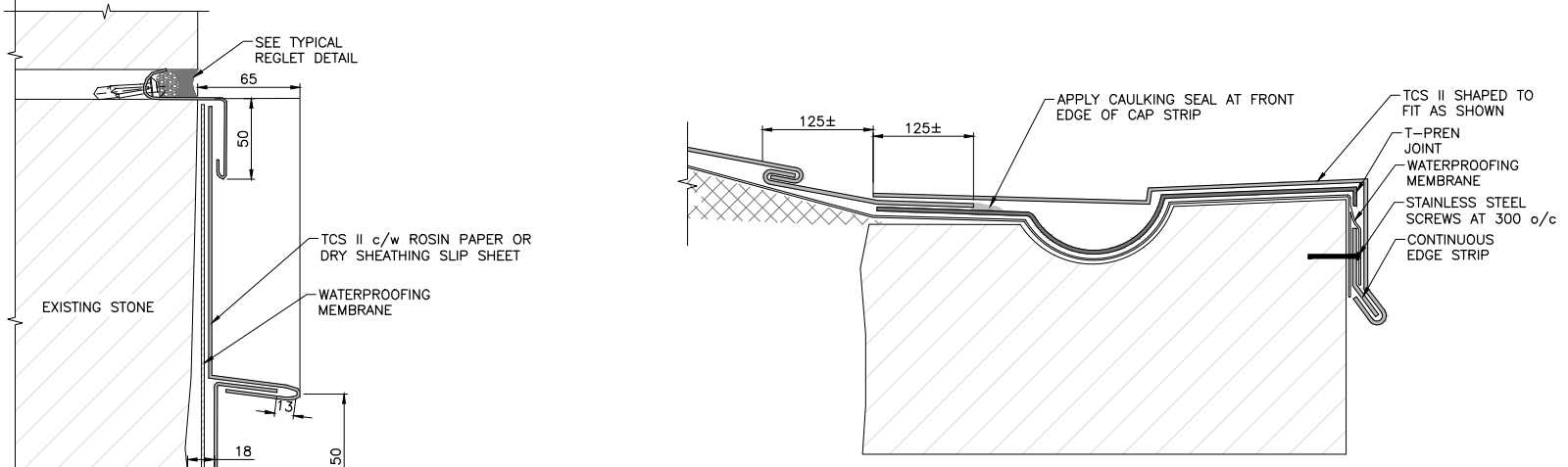
- INSTALL ALL NECESSARY ACCESS TO COMPLETE THE WORK AS SHOWN ON THIS DRAWING.
- STRIP OFF MASTIC/TAR AND MEMBRANES/FELTS TO MIN. LIMITS SHOWN.
- APPLY ELASTOMERIC MEMBRANE UNDER FULL EXTENT OF EXPOSED AREA.
- APPLY ROSIN PAPER OR DRY SHEATHING AT AREA TO RECEIVE METAL.
- APPLY TCSII GUTTER SECTIONS IN MAX. 1.8m (UNLESS OTHERWISE DIRECTED) LENGTHS, 905mm GIRTH.
- SECTIONS TO BE LAPPED, RIVETED AND SOLDERED.
- PROVIDE TPREN EXPANSION JOINT AT LOCATION INDICATED ON S12 (SEE DETAIL).
- PROVIDE FLASHING/EXPANSION JOINT WHERE GUTTER ABUTS STONE WALL (SEE DETAIL E).
- SECURE LEAD EDGE TO EDGE STRIP AT STONEMWORK; SEAM AND SOLDER BACK EDGE TO CONTINUOUS 'HOLD DOWN' STRIP.
- APPLY LAYER OF MEMBRANE 'FLASHING CAP', AS TIE IN OVER EXISTING MASTIC ASPHALT AND LAPPING TCS II MIN. 150mm.
- ENSURE ADEQUATE SLOPE THROUGHOUT GUTTER TO PROVIDE DRAINAGE TO SCUPPER OUTLETS, SYSTEM SHALL BE TESTED AND APPROVED BY DEPARTMENTAL REPRESENTATIVE UPON COMPLETION.

SCOPE OF WORK, TYPICAL T-PREN JOINT

- FORM T-PREN SHEET TO GUTTER PROFILE SUCH THAT THE TRUE BOTTOM SIDE (RIDGED WITH WRITING) IS FACE UP (FOR ADHESION PURPOSES DETAILED IN NOTE 3) AND CUT TO LENGTH SUCH THAT BACK EDGE IS AT FACE OF TCS II CONTINUOUS HOLD DOWN STRIP AND 25mm IS FORMED OVER OUTSIDE EDGE OF GUTTER/PARAPET, AS SHOWN IN SECTION C.
- SOLDER T-PREN TCS II STEEL MATERIAL FULL LENGTH ALONG BOTH SIDES AND ACROSS BACK EDGE (CLOSEST TO HOLD DOWN STRIP) TO EDGES OF NEOPRENE.
- APPLY RUBBER ADHESIVE (3M SPRAY 80 OR 3M GENERAL TRIM ADHESIVE PN 08088, OR APPROVED ALTERNATE) TO UNDERSIDE FACE OF NEOPRENE FOR BACK 75mm AND BOND TO CLEAN EXISTING SHEET METAL SURFACE.
- APPLY PRESSURE/WEIGHT TO TOP OF NEOPRENE TO ENSURE PROPER BOND TO EXISTING METAL. LEAVE IN PLACE FOR FULL CURE TIME AS PER MANUFACTURERS RECOMMENDATIONS.
- APPLY CAULKING SEAL (TREMCO POLYROOF LV OR APPROVED ALTERNATE), AS SHOWN IN DETAIL C, AT BACK EDGE OF NEOPRENE STRIP AND ALLOW TO CURE AS PER MANUFACTURERS INSTRUCTION.
- SOLDER 19mm DEEP CLIP ON EACH SIDE OF T-PREN SHEET FULL LENGTH OF BOTH SURFACES ON EITHER SIDE OF GUTTER SUCH THAT A 380mm WIDE CAP STRIP OF TCSII SHEET METAL CAN FEED INTO THE CLIPS, AS SHOWN IN SECTION F.
- ALLOW 10mm CLEARANCE FOR EXPANSION BETWEEN OUTSIDE EDGE OF TCSII CAP STRIP AND INSIDE LIMIT OF CLIP ON EACH SIDE (RESULTS IN 20mm TOTAL ALLOWANCE FOR EXPANSION/CONTRACTION).
- LEAVE CLIPS BENT OPEN AT 90 DEGREES TO ALLOW FOR INSERTION OF TCSII CAP STRIP.
- FORM TCSII CAP STRIP TO GUTTER PROFILE NEGLECTING THE GUTTER SWALE SUCH THAT THE CAP METAL LIES FLAT ACROSS THE TOP OF THE SWALE AND WATER IS PERMITTED TO FLOW UNDER THE CAP ALONG THE SWALE AS SHOWN IN SECTION C.
- ENSURE CAP EXTENDS OVER OUTER EDGE OF PARAPET AND BENDS DOWN WALL AT 90 DEGREES TO COVER SIMILAR T-PREN BENT OVERHANG, AS SHOWN IN SECTION C.
- EXTEND LENGTH OF CAP METAL SUCH THAT IT TERMINATES 25mm FROM THE TCSII HOLD DOWN STRIP.
- PLACE TCSII CAP IN CLIPS AND PRESS CLIPS DOWN FLAT TO SECURE CAP IN PLACE. CLEAN AREA.

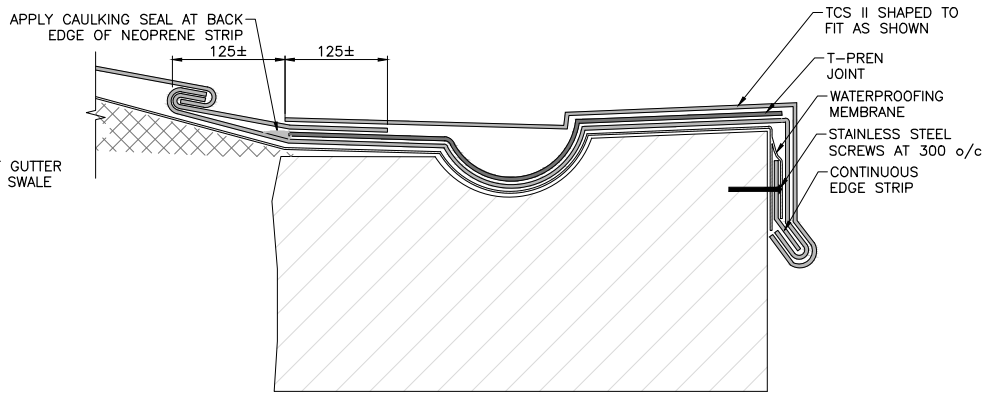


A TYPICAL GUTTER DETAIL
N.T.S.

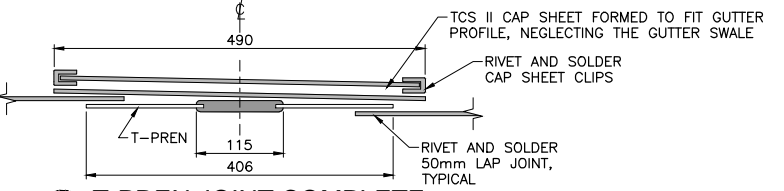


C T-PREN JOINT c/w TCS II CAP SHEET AT CENTRELINE OF T-PREN JOINT
N.T.S.

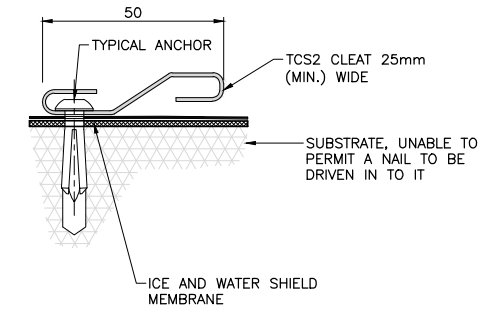
E FLASHING/EXPANSION AT STONE WALL
N.T.S.



B T-PREN JOINT c/w TCS II CAP SHEET AT LAP WITH GUTTER
N.T.S.



F T-PREN JOINT COMPLETE WITH TCS II CAP SHEET
N.T.S.



CLEAT DETAIL
1:50

1	MAR15'	FOR 99% REVIEW	S.M.E	S.T.R.
No.	Date	Description	Drawn by Dessine par	Approved Approuvé

Revision / Révision	
A	A Detail number No. du détail
B	B Location dwg. no. No. sur dessin
C	C Drawing sheet no. No. du dessin

Client Acceptance / Acceptation du client
Signature _____ Date _____
File No./No. de dossier _____

Public Works and Government Services Canada / Travaux publics et Services gouvernementaux Canada
Client Service Team for Parks Canada Ontario Region / Équipe des services à la clientèle pour Parcs Canada Région de l'Ontario



André Scheinman
HERITAGE PRESERVATION CONSULTANT

Project title / Titre du projet

FORT HENRY NATIONAL HISTORIC SITE OF CANADA: CURTAINWALL REVETMENT CONSERVATION

KINGSTON ONTARIO

Drawing title / Titre du dessin

MASONRY, WINDOW AND DOOR REPAIRS - TERREPLAIN LEVEL GUTTER REPAIR DETAILS

Scale / Échelle
NOT TO SCALE

Drawn by/ Dessiné par
S.M.E Date
MARCH 2015

Designed by/ Conçu par
S.T.R Date
MARCH 2015

Checked by/ Vérifié par
D.A.H Date
MARCH 2015

Approved by / Approuvé par
Date

Project No./No. du projet 30026566	Client No./No du Client	Sheet No./ Feuille No.
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Drawing Reference No./Numéro de Référence du Dessin **S23**