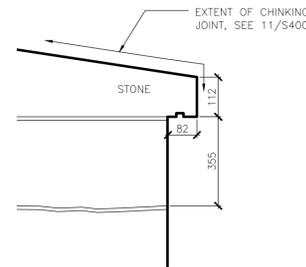


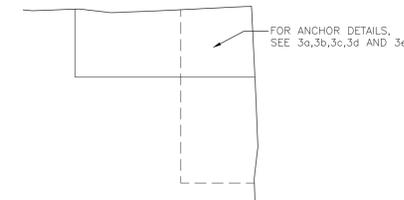
REDOUBT WALL SECTION

NTS S402



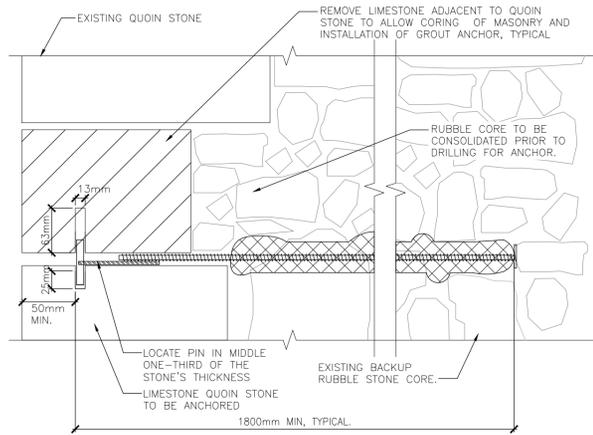
EAVES DETAIL AT CAPONIER

NTS S402



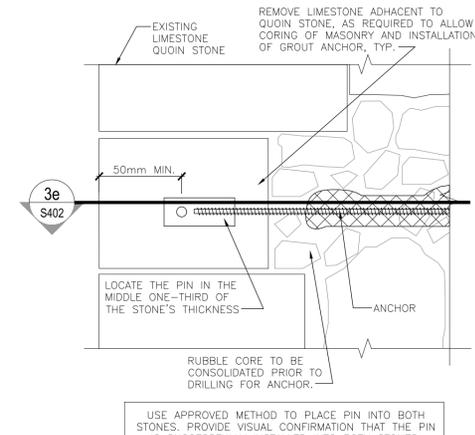
CORNER ANCHOR DETAIL FOR REDOUBT WALLS, BLOCK 11 AND 2

NTS S402



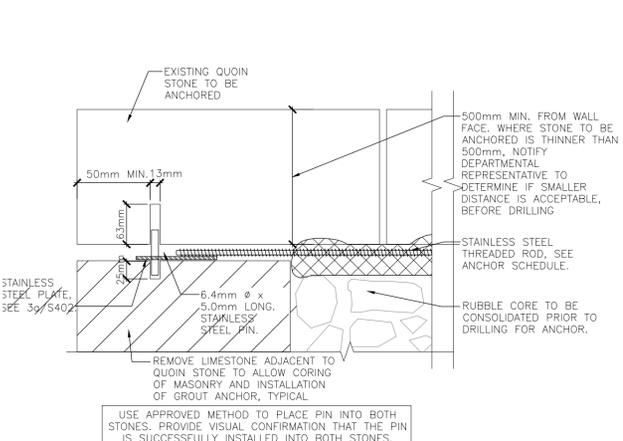
CORNER ANCHOR PLACEMENT DETAIL, DROP IN PIN

NTS S402



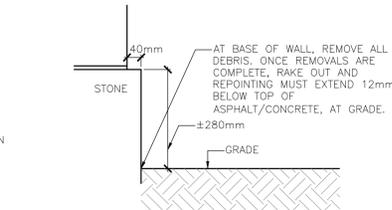
CORNER ANCHOR PLACEMENT DETAIL, SIDE PIN

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CORNER ANCHOR PLACEMENT DETAIL, SIDE PIN

NTS S402



DETAIL AT BASE OF WALL

NTS S402

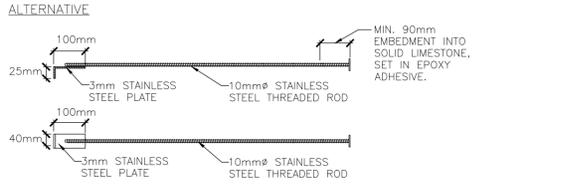
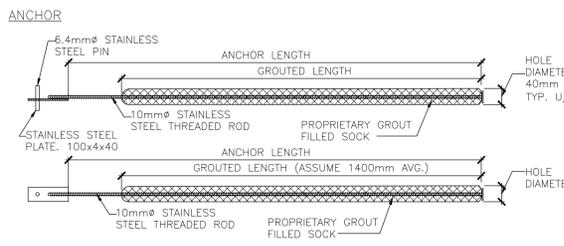
NOTE: EACH SET OF TWO (2) GROUTED ANCHORS TO BE SPACED AT 1200mm o.c. EACH SET COMPRISES OF ONE (1) GROUTED ANCHOR IN EACH DIRECTION SPACED AT +/- 400mm o.c. UNLESS NOTED OR IDENTIFIED ON SITE BY THE DEPARTMENTAL REPRESENTATIVE.

ALL ANCHORS TO BE SPACED AT 1200mm c/c EACH DIRECTION UNLESS NOTED OR IDENTIFIED ON SITE BY THE DEPARTMENTAL REPRESENTATIVE. PROVIDE ±600mm BETWEEN ANCHORS IN OPPOSITE DIRECTIONS WHERE POSSIBLE.

ALL ANCHORS ARE TO BE INSTALLED INTO THE TOP OF THE QUOIN STONES WITH A DROP IN PIN, AS DETAILED IN 3c/S402. IF THE ORIENTATION OF THE STONES DOES NOT ALLOW FOR THE SPECIFIED SPACING TO BE MAINTAINED, ANCHORS MAY BE INSTALLED WITH A SIDE PIN, AS DETAILED IN 3d/S402, AT THE DISCRETION OF THE DEPARTMENTAL REPRESENTATIVE.

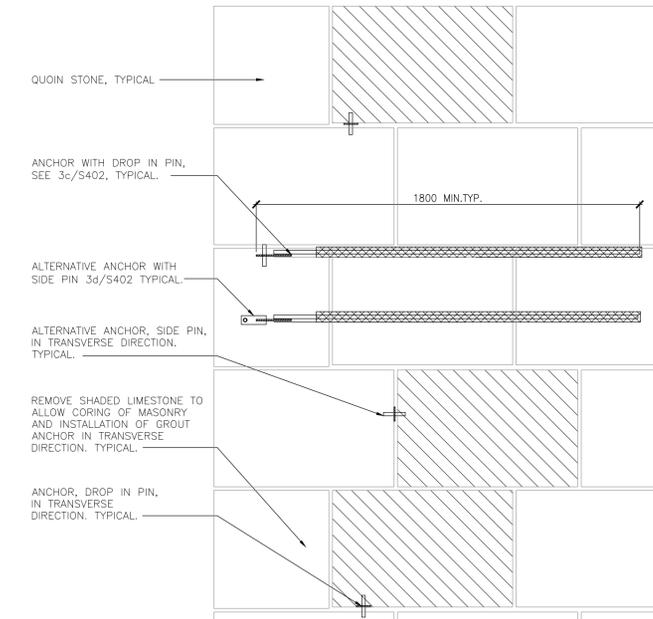
WHEN ANCHORING, THERE IS A PRIMARY AND SECONDARY STONE TO BE ANCHORED. IF A SITUATION ARISES WHERE PINNING INTO THE SECONDARY STONE TO BE ANCHORED WILL CAUSE DAMAGE TO THE STONE, IT IS ACCEPTABLE TO ONLY ANCHOR TO THE PRIMARY STONE AT THE DISCRETION OF THE DEPARTMENTAL REPRESENTATIVE.

1. IDENTIFY PROPOSED LOCATION OF ANCHORS AND STONE REMOVALS TO DEPARTMENTAL REPRESENTATIVE PRIOR TO BEGINNING REMOVALS.
2. REMOVE SHADED LIMESTONE AS REQUIRED SUFFICIENT TO CORE HOLE INTO QUOIN STONE. SEE 3b/S402.
3. PERFORM CONSOLIDATION. SEE GENERAL NOTES ON DRAWING S101.
4. DRILL 40mm CORE TO A MINIMUM DEPTH OF 1800mm. LOCATE THE CORE APPROXIMATELY 500mm FROM THE WALL FACE IN THE DIRECTION OF DRILLING. WHERE WINDOWS OR DOORS INTERFERE WITH THE SPECIFIED DEPTH, DRILL CORE TO A DEPTH 300mm SHORTER THAN THE DISTANCE TO THE FACE OF THE JAMB STONE. CONFIRM LENGTH WITH DEPARTMENTAL REPRESENTATIVE PRIOR TO DRILLING.
5. CORE THE STONES TO RECEIVE THE ANCHOR PIN AND INSTALL THE ANCHOR AS DETAILED. ADDITIONAL REMOVALS OF LIMESTONE MAY BE REQUIRED TO PLACE THE PIN PROPERLY.
6. RESET THE LIMESTONE AS DETAILED.



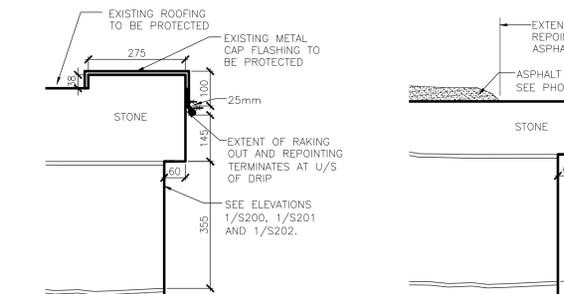
ANCHOR INSTALLATION PROCEDURES

NTS S402



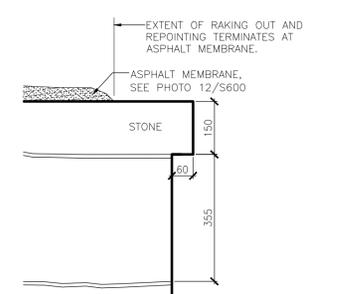
CORNER ANCHORS

NTS S402



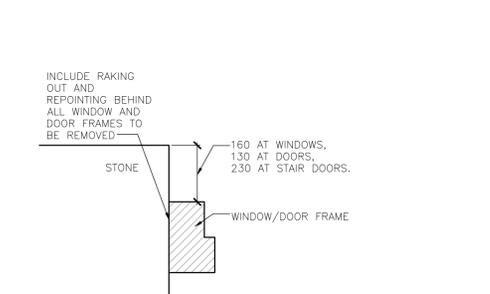
TOP OF INTERIOR WALL

NTS S402



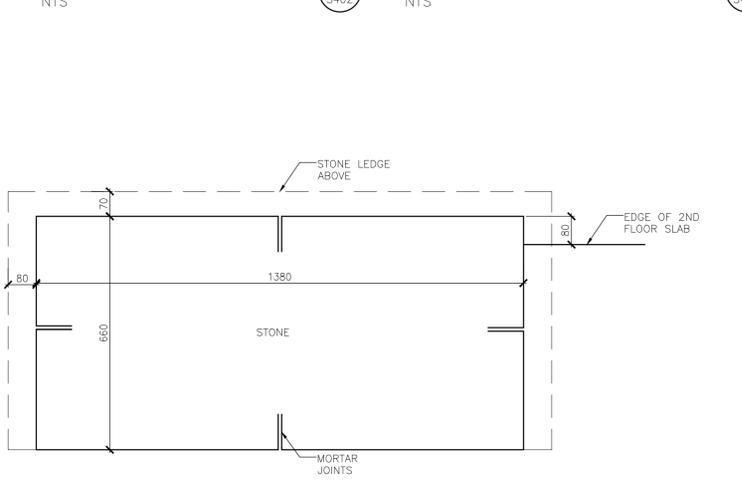
SECOND FLOOR EDGE DETAIL

NTS S402



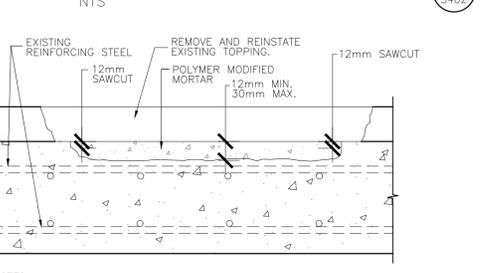
EDGE OF WINDOW/DOOR DETAIL

NTS S402



TYPICAL STONE COLUMN SECTION

NTS S402



SHALLOW SURFACE DELAMINATION REPAIR

NTS S402

- NOTES:
1. SAWCUT PERIMETER OF THE REPAIR AREA. (DO NOT CUT EXISTING BARS)
  2. REMOVE ALL LOOSE & UNSOUND CONCRETE IN THE DELAMINATED AREA
  3. IF THE BOND BETWEEN THE REINFORCING STEEL AND CONCRETE IS BROKEN OR WHERE MORE THAN ONE HALF OF THE PERIMETER OF ANY REINFORCING BAR IS EXPOSED, THE CONCRETE SURROUNDING THESE LOCALIZED BARS SHALL BE REMOVED AS INDICATED IN DEEP SURFACE DELAMINATION REPAIR. SEE 1/SX
  4. CLEAN CONCRETE AND EXPOSED REINFORCING STEEL BY GRIT-BLASTING.
  5. APPLY BONDING AGENT TO CONCRETE SURFACE AND CURE FOR 12 HOURS.
  6. PLACE REPAIR MORTAR AS PER MANUFACTURER'S SPECIFICATIONS WITHIN 12 HOURS OF APPLICATION OF BONDING AGENT
  7. FINISH AND CURE REPAIR MORTAR AS PER MANUFACTURERS RECOMMENDATIONS.

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22216  
CRAIG SIMS  
HERITAGE BUILDING CONSULTANT

22216-S402	MASONRY REPAIR DETAILS
DRAWING NO.	DRAWING NAME

REFERENCE DRAWINGS			
NO.	DATE	DESCRIPTION	Drawn by / Dessiné par
2	2022/10/24	ISSUED WITH ADDENDUM 2	
1	2022/10/19	ISSUED FOR ADDENDUM 1	
0	2022/09/28	ISSUED FOR TENDER	

REVISIONS			
NO.	DATE	DESCRIPTION	Approved / Approuvé
A		A Detail number / A Numéro de détail	
B		B Sheet number / B Sur feuille numero	

Linear dimensions in millimeters / Dimensions linéaires en millimètres

PROFESSIONAL ENGINEER  
N. K. MURRAY  
100184850  
Oct 24 2022  
PROVINCE OF ONTARIO

Project title / Titre du projet

FORT HENRY 2023 MASONRY REHABILITATION  
REDOUBT BLOCKS 1,2 & 11

Drawing title / Titre du dessin

MASONRY REPAIR SECTIONS

Plot Scale / Echelle

1:1 (A1 Plot Size)

Drawn by/ Dessiné par C.P. Date

Field Recording by / Releve-Terminé par N.M. & J.C. Date 2022/05/23

Approved by / Approuvé par J.C. Date 2022/09/28

Checked by/ Verifié par J.C. Date 2022/09/28

Project No./ No. du projet 22216 Asset No. Sheet No./ Feuille No.

Drawing Re No./No. du Dessin 22216-S402-RO2 S402