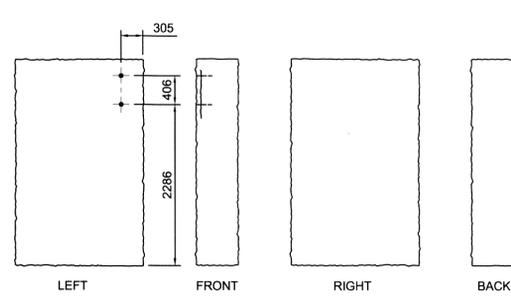
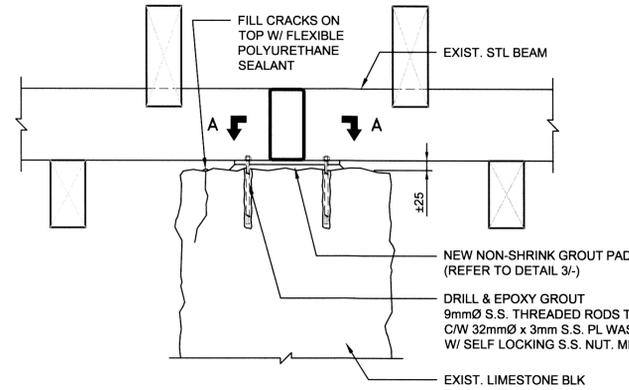


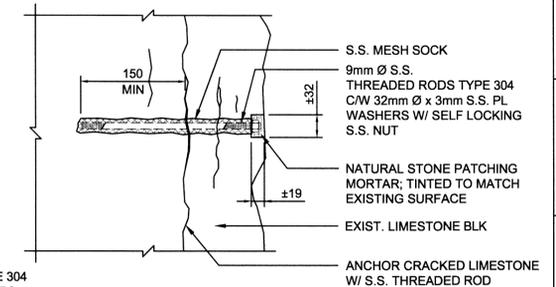
LIMESTONE COLUMN 'L1'



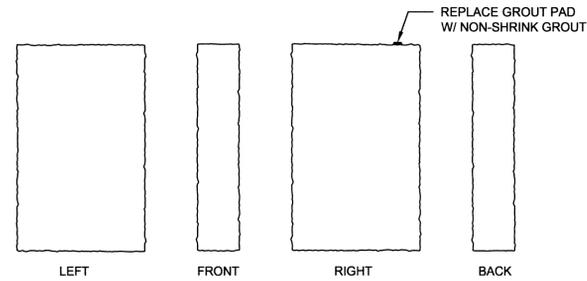
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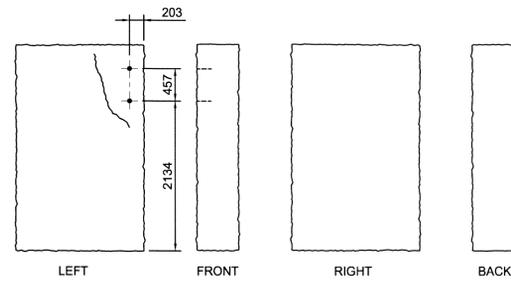
SECTION A-A
SCALE: 1:10



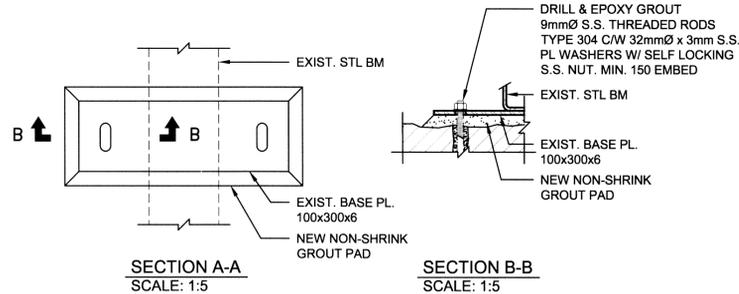
1 DETAIL
SCALE: 1:5



LIMESTONE COLUMN 'L6'



LIMESTONE COLUMN 'L7'

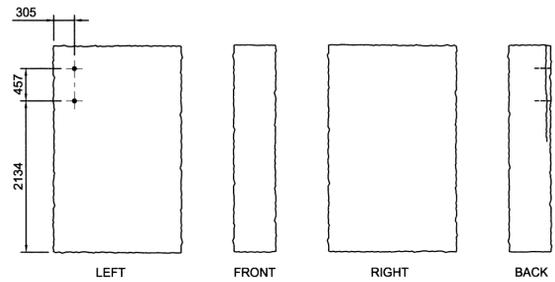


SECTION A-A
SCALE: 1:5

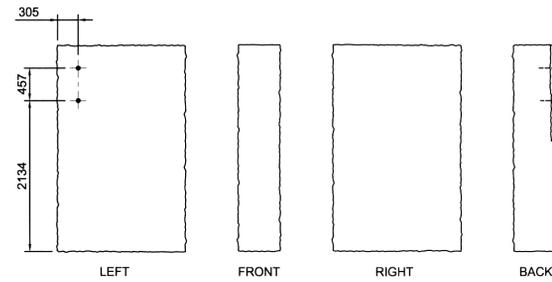
SECTION B-B
SCALE: 1:5

IN-SITU STABILIZATION OF LIMESTONE METHODOLOGY:

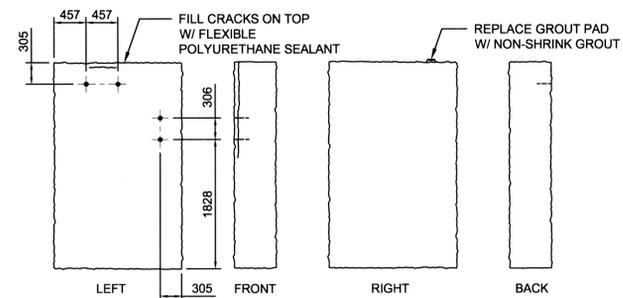
1. CRACKED LIMESTONE SHALL BE PINNED USING A STAINLESS STEEL THREADED ROD.
2. THE CONTRACTOR SHALL CORE A 32mm DIAMETER HOLE (DO NOT HAMMER DRILL), NOT MORE THAN 19mm INTO THE SUBSTRATE. A 13mm Ø HOLE SHALL THEN BE HAMMER DRILLED THROUGH THE CENTRE OF THE HOLE, 150mm INTO SOUND SUBSTRATE. HOLE DIAMETER TO BE 3mm LARGER THAN ANCHOR DIAMETER. BLOW OUT HOLE WITH OIL-FREE COMPRESSED AIR.
3. USING A TUBE EXTENSION ON THE INJECTION GUN, INJECT THE HOLE WITH A TWO COMPONENT EPOXY STRUCTURAL ADHESIVE. ACCEPTABLE PRODUCT: SIKADUR 31 HI-MOD GEL OR APPROVED EQUAL. PLACE PLATE WASHER AND NUT AT END OF ROD AND INSERT ROD THROUGH LIMESTONE AND INTO THE RESIN. ENSURE HOLE IN SUBSTRATE IS DRILLED DEEP ENOUGH TO ENSURE PLATE WASHER IS IN TIGHT CONTACT WITH LIMESTONE. ENSURE TIP OF ROD IS NOT LESS THAN 5mm BELOW SURFACE OF LIMESTONE.
4. UPON SUFFICIENT CURE OF RESIN, TORQUE NUT TO HILTI/POWERS SPECIFICATION.
5. TRIM CORED STONE PLUG TO ACCOMMODATE WASHER AND NUT. SECURE PLUG WITH EPOXY RESIN. PREPARE SURFACE AND PATCH WITH A MINERAL BASED, ONE COMPONENT MORTAR FOR RESTORATION OF NATURAL STONE ELEMENTS. ACCEPTABLE PRODUCT: M70 NATURAL STONE REPAIR MORTAR BY JAHN INTERNATIONAL OR APPROVED EQUAL. UPON SUFFICIENT CURE OF MORTAR, APPLY COATING TO PATCH AREA TO MATCH ADJACENT SURFACE.



LIMESTONE COLUMN 'L10'



LIMESTONE COLUMN 'L11'



LIMESTONE COLUMN 'L13'

NOTE:

1. FRONT FACE OF LIMESTONE BLOCK REFERS TO THE INSIDE FACE OF THE NODE LOOKING OUT.
2. REPLACE EXIST. GROUT PAD & EXIST. ANCHORS W/ NON-SHRINK GROUT: LIMESTONE BLKS L1, L6 & L13 REFER TO SECTION A/-
3. NEW LIMESTONE REPAIR ANCHOR: LIMESTONE BLKS L1, L4, L7, L10, L11 & L13 REFER TO DETAIL 1/-
4. FILL CRACKS ON TOP W/ FLEXIBLE POLYURETHANE SEALANT: LIMESTONE BLKS L1 & L13 REFER TO SECTION A/-

5		
4		
3		
2		
1		
0	ISSUED FOR CONSTRUCTION	MAY 13, 2018
Revision	Description	Date
Client		client

PUBLIC WORKS AND GOVERNMENT SERVICES CANADA

Project title
THE FORKS NHS INFRASTRUCTURE UPGRADES
THE FORKS WINNIPEG, MANITOBA

Designed by
PPG
Conçu par

Drawn by
JAR
Dessiné par

Approved by
[Signature]
Approuvé par

PWGSC Project Manager
Christina Kovacs
Administrateur de Projets TPSGC

Drawing title
Titre du dessin

STRUCTURAL MAIN ORIENTATION NODE LIMESTONE REHABILITATION NEW CONSTRUCTION

Project no./No. du projet	Drawing no./No. du dessin	Revision no.
R.075208.001	S03 OF 05	0

APEGN
Certificate of Authorization
KGS Group
No. 245

