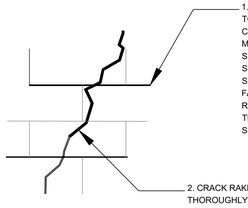
DO NOT SCALE, IF IN DOUBT ASK. DO NOT INTERROGATE CAD BASE

GENERAL NOTES

1. EXTENT OF REPAIRS TO BE CONFIRMED. FINAL EXTENT OF WORKS TO BE CONFIRMED FOLLOWING CONCRETE CARBONATION & CHLORINATION TESTS, COVER METER TESTS, REMOVAL OF ROOF COVERING, HIGH LEVEL SURVEY.
2. APPLY AN ANTI CARBONATION COAT TO UNDERSIDE OF CONCRETE SLAB TO THE REPAIRED AREAS OF CONCRETE.
3. SIZES OF REPAIRS GIVEN ON DRAWING ARE ESTIMATES AND WILL CHANGE DURING THE CONCRETE REMOVAL / REPAIR WORKS. ALLOWANCE SHOULD BE MADE FOR ADDITIONAL REPAIRS.
4. DRAWING TO BE READ IN CONJUNCTION WITH UK ANALYTICAL CONCRETE REPORT NUMBER TBC. REPORT TO BE READ BY SPECIALISTS REPAIRS MORTAR / PAINT SUPPLIERS TO CHECK SUITABILITY OF THEIR PRODUCTS.

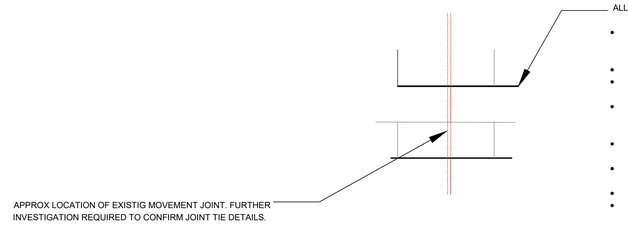
EXISTING CRACK IN MASONRY REPAIRED WITH A COMBINATION OF REMEDIAL WORKS (1), (2). TO BE AGREED ON SITE FOLLOWING FURTHER INSPECTION AND DISCUSSION WITH THE CONTRACTOR. AT CRACK LOCATIONS



1. HORIZONTAL/NEAR HORIZONTAL SLOTS 50mm DEEP CUT INTO MASONRY FACE TO 520mm EITHER SIDE OF THE CRACK, TOTAL LENGTH 1040mm. THOROUGHLY CLEAN OUT THE SLOTS WITH CLEAN WATER AND TO SOAK THE SURROUNDING MASONRY. INJECT PROPRIETARY HIGH STRENGTH GROUT TO THE BACK OF THE SLOT OVER THE FULL LENGTH OF THE SLOT. INSERT 1000mm LONG STAINLESS STEEL HELICAL 6mm DIA STITCHING BAR EMBEDDED INTO THE GROUT. FILL THE SLOT WITH FURTHER GROUT TO BED IN THE BAR AND TO WITHIN 12mm OF WALL FACE. FIRMLY COMPACT THE GROUT WITHIN THE SLOT AND AROUND THE BAR. RE-POINT WITH SUITABLE MORTAR TO MATCH THE SURROUNDING TEXTURE/COLOUR. PRODUCTS BY HELIFIX OR SIMILAR. BARS TYPICALLY SPACED AT 300mm VERTICAL CENTRES.

2. CRACK RAKED OUT DEEP INTO WALL (WITHOUT DESTABILIZING) AND THOROUGHLY CLEANED OUT WITH CLEAN WATER. CRACK TO BE COMPLETELY FILLED WITH SUITABLE MORTAR TO MATCH THE EXISTING TEXTURE/COLOUR.

CRACK STITCHING DETAIL
(1:10)



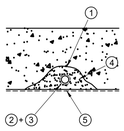
ALLOW FOR REPAIRING JOINT. USE HELIFIX REMEDIAL JOINT SYSTEM OR SIMILAR. PROCEDURE:

- CUT SLOTS INTO THE HORIZONTAL MORTAR JOINTS EITHER SIDE OF THE MOVEMENT JOINT, TO THE SPECIFIED DEPTH AND AT 450mm VERTICAL SPACING. ENSURE NO MORTAR IS LEFT ATTACHED TO THE EXPOSED BRICK SURFACES IN ORDER TO PROVIDE A GOOD MASONRY/RESIN BOND
- CLEAN EXISTING VERTICAL JOINT REMOVING ALL SEALANT
- CLEAN OUT SLOTS AND INJECT A BEAD OF POLYPLUS RESIN OR HELIBOND GROUT, APPROX. 10MM DEEP, TO BACK OF SLOT.
- FIT THE DE-BOND SLEEVE OVER ONE HALF OF THE 6MM HELIBAR AND PUSH THE COMPLETE ASSEMBLY INTO THE RESIN ENSURING A GOOD BOND BETWEEN THE POLYPLUS / HELIBOND AND THE SLEEVE WITHIN THE SLOT.
- INJECT A SECOND BEAD OF POLYPLUS RESIN OR HELIBOND GROUT UP AGAINST THE HELIBAR AND TUBE ASSEMBLY TO OBTAIN GOOD COVERAGE OF BOTH.
- REPEAT THE ABOVE STEP FOR THE OTHER SIDE OF THE JOINT, INSERTING THE DEBOND SLEEVE TO THE LEFT AND RIGHT OF THE MOVEMENT JOINT IN THE CUT SLOTS.
- POINT UP THE OPEN SLOT WITH A MATCHING MORTAR. COLOUR TO BE AGREED.
- SEAL THE JOINT WITH A SUITABLE FLEXIBLE MASTIC TYPE MATERIAL. COLOR TO BE AGREED.

APPROX LOCATION OF EXISTIG MOVEMENT JOINT. FURTHER INVESTIGATION REQUIRED TO CONFIRM JOINT TIE DETAILS.

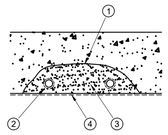
MOVEMENT JOINT REPAIR DETAIL
(1:10)

*



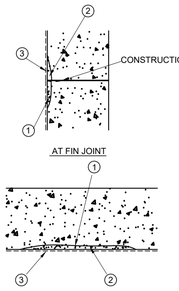
1. CUT OUT AREA OF CONCRETE AROUND CORRODED REBAR BACK TO SOUND CONCRETE. SQUARE CUT AROUND AFFECTED AREA AND REMOVE CONCRETE AROUND REBAR (INCLUDING TO REAR BY 20mm MIN. + 50mm MIN. BEYOND ANY VISIBLE CORROSION).
2. CLEAN REBAR BY WIRE BRUSH (HAND OR MECHANICAL) TO SA2½. IF LOSS OF REBAR CROSS SECTION 10% OR GREATER CUT AND REPLACE WITH REBAR OF EQUAL DIAMETER AND LENGTH PLUS LAP LENGTH EITHER END. ENSURE STRUCTURE WILL REMAIN SAFE IN TEMPORARY CONDITION BEFORE EXPOSING LARGE AREAS OF REINFORCEMENT.
3. APPLY 2 No. COATS OF CORROSION PROTECTION TO REBAR I.E. FLEXCRETE 841 OR SIMILAR APPROVED. NOTE: MAY NOT BE REQUIRED IF REPAIR MORTAR CONTAINS INTEGRAL CORROSION PROTECTION.
4. REINSTATE CONCRETE USING QUICK REPAIR MORTAR FOR WEAK CONCRETES I.E. STOCRETE SMP OR SIMILAR APPROVED INSTALLED IN ACCORDANCE WITH MANUFACTURERS REQUIREMENTS. ENSURE CONCRETE SURFACES ROUGHENED / WETTED PRIOR TO MORTAR APPLICATION AS PER MANUFACTURERS REQUIREMENTS. ANY BONDING BRIDGE REQUIRED TO CONCRETE SURFACE PRIOR TO MORTAR INSTALLATION TO MANUFACTURERS RECOMMENDATIONS.
5. FINISH WITH SUITABLE FAIRING COAT I.E. FLEXCRETE MONOLEVEL FC OR SIMILAR APPROVED AND AN ANTI-CARBONATION COATING I.E. FLEXCRETE MONODEX SMOOTH OR SIMILAR APPROVED INSTALLED FULLY IN ACCORDANCE WITH MANUFACTURERS REQUIREMENTS. COLOR TBA.

A DETAIL A - AREAS OF CORRODED STEEL REBAR
SCALE 1:10



1. CUT OUT AREA OF LOOSE / CARBONATED CONCRETE BACK TO SOUND CONCRETE. SQUARE CUT AROUND AFFECTED AREA AND REMOVE CONCRETE AROUND REBAR (INCLUDING TO REAR BY 20mm MIN. + 50mm MIN. BEYOND ANY VISIBLE CORROSION).
2. ANY REBAR EXPOSED AS PART OF THIS PROCESS SHOULD BE DEALT WITH AS PER DETAIL A POINTS 2 AND 3.
3. REINSTATE CONCRETE USING QUICK REPAIR MORTAR FOR WEAK CONCRETES I.E. STOCRETE SMP OR SIMILAR APPROVED INSTALLED IN ACCORDANCE WITH MANUFACTURERS REQUIREMENTS. ENSURE CONCRETE SURFACES ROUGHENED / WETTED PRIOR TO MORTAR APPLICATION AS PER MANUFACTURERS REQUIREMENTS. ANY BONDING BRIDGE REQUIRED TO CONCRETE SURFACE PRIOR TO MORTAR INSTALLATION TO MANUFACTURERS RECOMMENDATIONS.
4. FINISH WITH SUITABLE FAIRING COAT I.E. FLEXCRETE MONOLEVEL FC OR SIMILAR APPROVED AND AN ANTI-CARBONATION COATING I.E. FLEXCRETE MONODEX SMOOTH OR SIMILAR APPROVED INSTALLED FULLY IN ACCORDANCE WITH MANUFACTURERS REQUIREMENTS. COLOR TBA.

B DETAIL B - AREAS OF LOOSE CONCRETE
SCALE 1:10



1. CLEAN / PREPARE DEGRADED CONCRETE SURFACE BACK TO SOUND CONCRETE. ANY REBAR EXPOSED AS PART OF THIS PROCESS SHOULD BE DEALT WITH AS PER DETAIL A POINTS 2 AND 3.
2. REINSTATE CONCRETE USING QUICK REPAIR MORTAR FOR WEAK CONCRETES I.E. STOCRETE SMP OR SIMILAR APPROVED INSTALLED IN ACCORDANCE WITH MANUFACTURERS REQUIREMENTS. ENSURE CONCRETE SURFACES ROUGHENED / WETTED PRIOR TO MORTAR APPLICATION AS PER MANUFACTURERS REQUIREMENTS. ANY BONDING BRIDGE REQUIRED TO CONCRETE SURFACE PRIOR TO MORTAR INSTALLATION TO MANUFACTURERS RECOMMENDATIONS.
3. FINISH WITH SUITABLE FAIRING COAT I.E. FLEXCRETE MONOLEVEL FC OR SIMILAR APPROVED AND AN ANTI-CARBONATION COATING I.E. FLEXCRETE MONODEX SMOOTH OR SIMILAR APPROVED INSTALLED FULLY IN ACCORDANCE WITH MANUFACTURERS REQUIREMENTS. COLOR TBA.

C DETAIL C - AREAS OF DAMP CONCRETE / CONCRETE SURFACE DEGRADATION
SCALE 1:10

REV.	DATE.	REVISION.	BY.	CHK.
–		FIRST ISSUE.	CD	SJ

Hopwood College

Milnrow Chapel

Proposed Concrete Repairs
Details and Methodology

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PRELIMINARY

DATE CREATED:	SCALE:	
May 2024	1:100	@ A1

CONTRACT No:	DRAWING No:	REV:
P15715	220	-