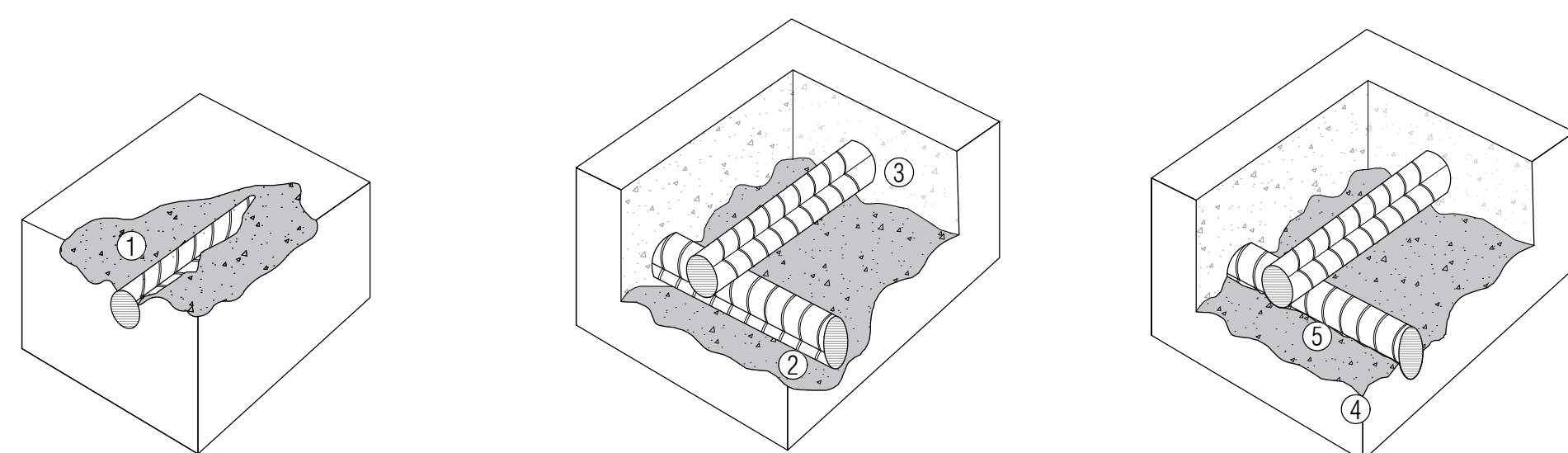


1 CONCRETE REPAIR
1st FLOOR
SCALE: 1/8" = 1'-0"

REPAIR QUANTITIES - 1st LEVEL						
MARK	LOCATION	REPAIR TYPE	ROUTE & CHASE (LF)	STUCCO REPAIR (SF)	CONCRETE REPAIR (CF)	NOTES
1	EXTERIOR WALL	A,B		12	5	
2	CONC. BEAM	C			4	
3	CRACKS	A,B	20			
TOTAL			20	12	9	

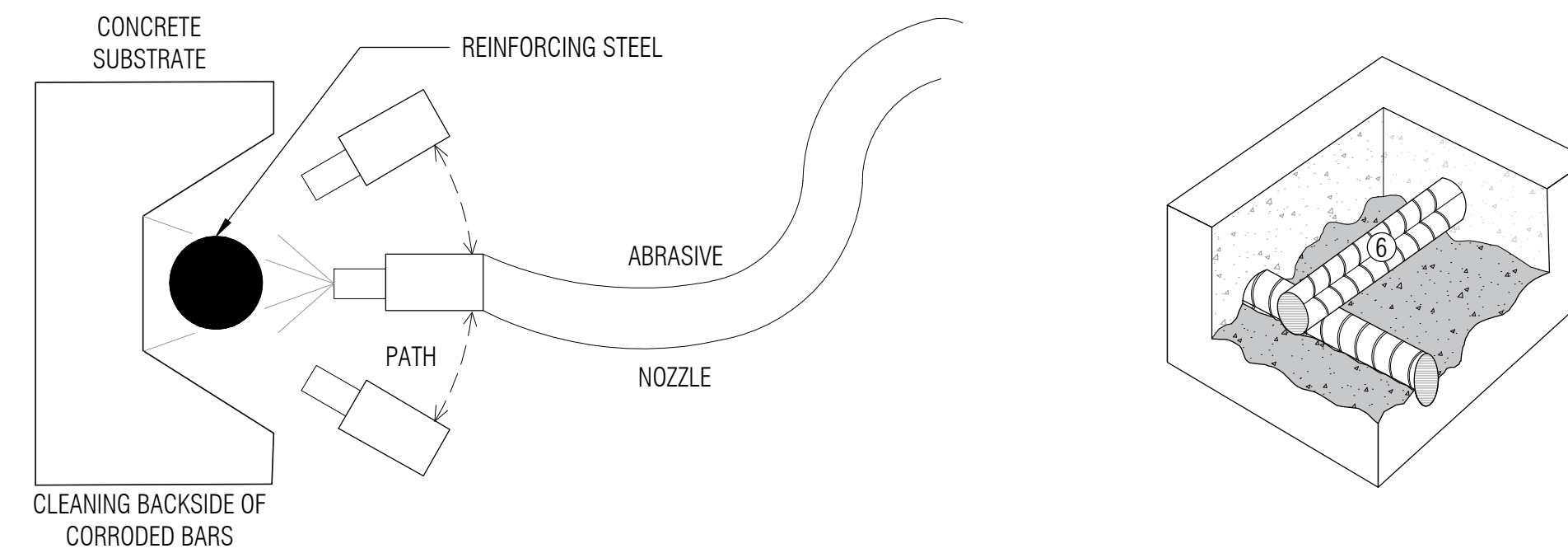
REPAIR DETAILS	
TYPE	DESCRIPTION
A	V-ROUTE & CHASE CRACKS
B	REMOVE & REPLACE STUCCO
C	REPAIR TIE BEAM



THESE DETAILS ARE APPLICABLE TO HORIZONTAL, VERTICAL AND OVERHEAD LOCATIONS. THEY ALSO APPLICABLE TO REMOVE BY HYDRO-DEMOLITION, HYDROMILLING, AND ELECTRIC, PNEUMATIC OR HYDRAULIC IMPACT BREAKERS.

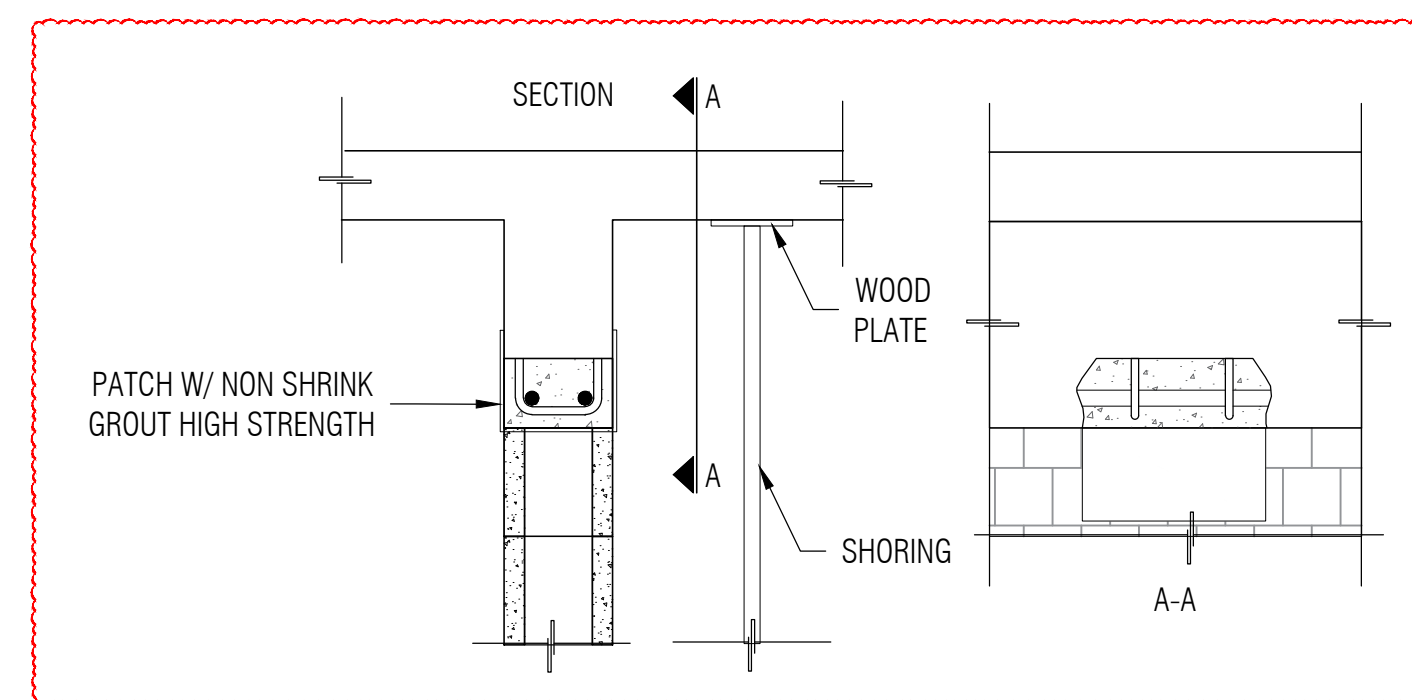
- 1.- REMOVE LOOSE OR DELAMINATED CONCRETE ABOVE CORRODED REINFORCING STEEL.
- 2.- ONCE INITIAL REMOVALS ARE MADE, PROCEED WITH THE UNDERCUTTING OF ALL EXPOSED CORRODED BARS. UNDERCUTTING WILL PROVIDE CLEARANCE FOR UNDER BAR CLEANING AND FULL BAR CIRCUMFERENCE BONDING TO SURROUNDING CONCRETE, AND WILL SECURE THE REPAIR STRUCTURALLY, PROVIDE MINIMUM 3/8" (19MM) CLEARANCE BETWEEN EXPOSED REBARS AND SURROUNDING CONCRETE OR 1/2" LARGER THAN LARGEST AGGREGATE IN REPAIR MATERIAL, WHICHEVER IS GREATER.
- 3.- CONCRETE REMOVALS SHALL EXTEND ALONG THE BARS THE BAR FREE OF BOND INHIBITING CORROSION, AND WHERE THE BARS IS WELL BONDED TO SURROUNDING CONCRETE.
- 4.- IF NON-CORRODED REINFORCING STEEL IS EXPOSED DURING THE UNDERCUTTING PROCESS CARE SHALL BE TAKEN NOT TO DAMAGE THE BAR'S BOND TO SURROUNDING CONCRETE IS BROKEN, UNDERCUTTING OF THE BAR SHALL BE REQUIRED.
- 5.- ANY REINFORCEMENT WHICH IS LOOSE SHALL BE SECURED IN PLACE BY TYING TO OTHER SECURED BARS OR BY WHEN APPROVAL METHODS.

A EXPOSING AND UNDERCUTTING OF REINFORCING STEEL
TYPICAL DETAIL
N.T.S.

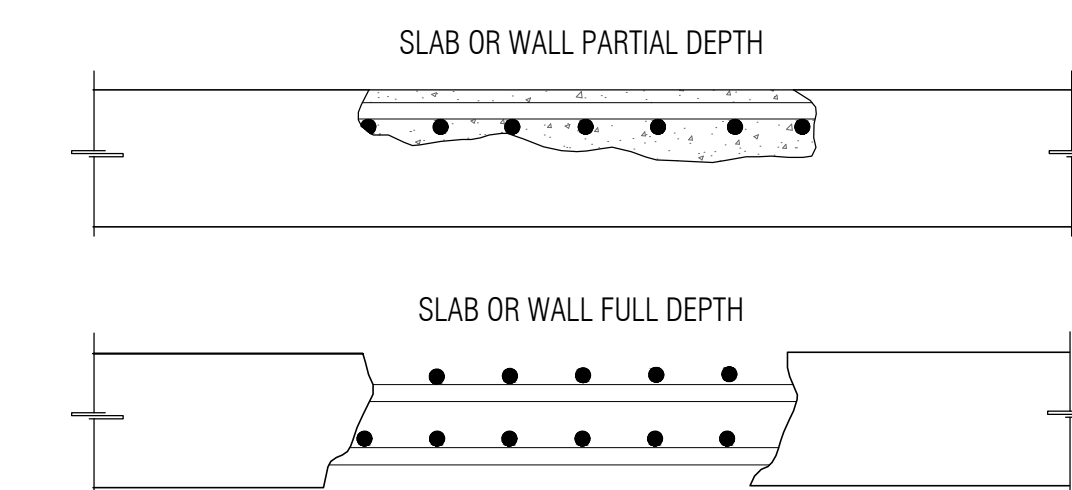
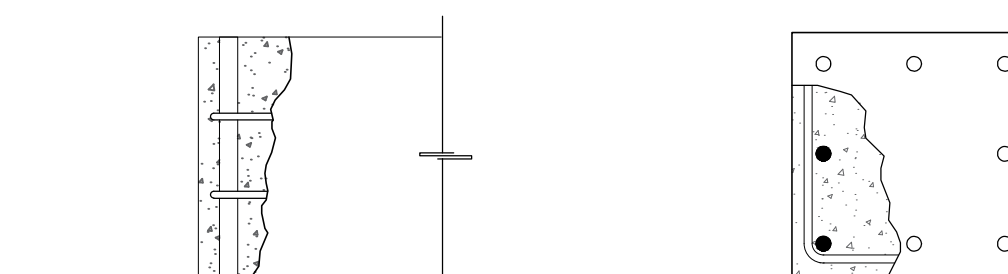


6.- ALL HEAVY CORROSION AND SCALE SHOULD BE REMOVED FROM BAR AS NECESSARY PROMOTE MAXIMUM BOND OF REPLACEMENT MATERIAL. OIL FREE ABRASIVE BLAST IS THE PREFERRED METHOD. A TIGHTLY BONDED LIGHT RUST BUILD-UP ON THE SURFACE IS USUALLY NOT DETRIMENTAL TO BOND, UNLESS A PROTECTIVE COATING IS BEING APPLIED TO THE BAR SURFACE, IN WHICH CASE THE COATING MANUFACTURER'S RECOMMENDATION FOR SURFACE PREPARATION SHOULD BE FOLLOWED

B CLEANING OF REINFORCING STEEL
TYPICAL DETAIL
N.T.S.



2 COLUMN REPAIR
1st FLOOR
SCALE: 1/8" = 1'-0"



THESE DETAILS ARE APPLICABLE TO HORIZONTAL, VERTICAL, AND OVERHEAD LOCATIONS, THEY ARE ALSO APPLICABLE TO REMOVE BY HYDRO-DEMOLITION, HYDROMILLING, AND ELECTRIC, PNEUMATIC OR HYDRAULIC IMPACT BREAKERS.

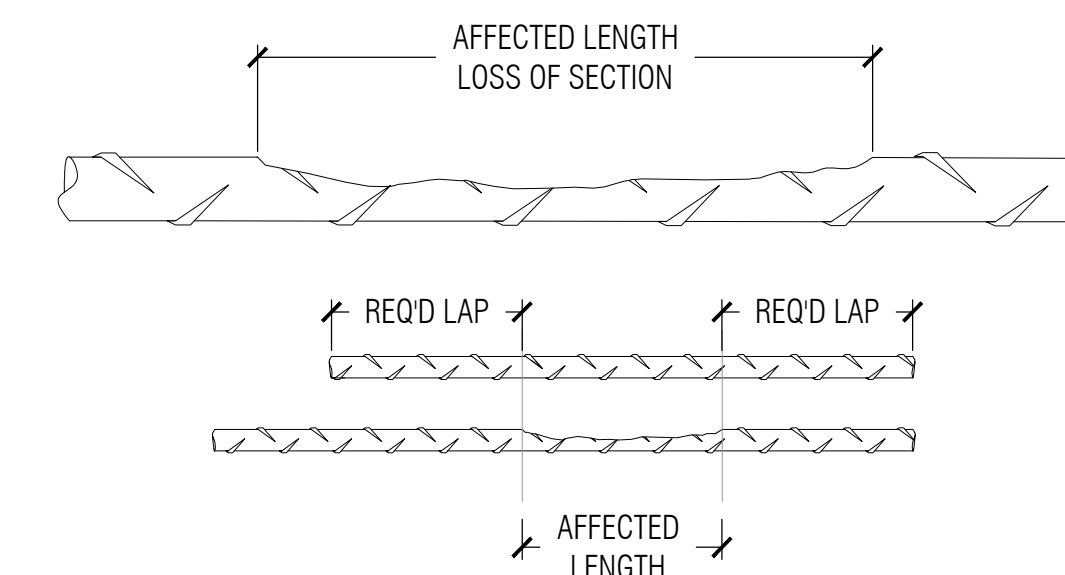
DO NOT USE THESE DETAILS FOR SHOTCRETE APPLICATIONS, FOR SHOTCRETE REPAIRS REFER TO AC1506 EDGE PREPARATION GUIDELINES.

- 1.- REMOVE DELAMINATED CONCRETE, UNDERCUT REINFORCING STEEL (REFER TO "EXPOSING AND UNDERCUTTING OF REINFORCING STEEL" ON THIS SHEET), REMOVE ADDITIONAL CONCRETE AS REQUIRED TO PROVIDE MINIMUM REQUIRED THICKNESS OF REPAIR MANUAL.
- 2.- AT EDGE LOCATIONS, PROVIDE RIGHT ANGLE CUTS TO THE CONCRETE SURFACE WITH EITHER OF THE FOLLOWING METHOD:
- SAWCUT 1/2"(16MM) OR LESS AS REQUIRED TO AVOID CUTTING REINFORCING STEEL.
- USE POWER EQUIPMENT SUCH AS HYDRO DEMOLITION OR IMPACT BREAKER, AVOID FEATHER EDGES.
- 3.- REPAIR CONFIGURATIONS SHOULD KEPT AS SIMPLE AS POSSIBLE, PREFERABLY WITH SQUARED CORNERS.
- 4.- AFTER REMOVALS AND EDGE CONDITIONING ARE COMPLETE, REMOVE BOND INHIBITING MATERIALS (DIRT, CONCRETE SLURRY, LOOSELY BONDED AGGREGATES) BY ABRASIVE BLASTING. CHECK THE CONCRETE SURFACES AFTER CLEANING TO INSURE THAT SURFACE IS FREE FROM ADDITIONAL LOOSE AGGREGATE, OR THAT ADDITIONAL DELAMINATIONS ARE NOT PRESENT.
- 5.- IF HYDRO DEMOLITION IS USED, CEMENT AND PARTICULATE SLURRY MUST BE REMOVED FROM THE PREPARED SURFACES BEFORE SLURRY HARDENS.
- 6.- DO NOT REMOVE MORE THAN 16 SQFT OR 4FT X 4FT OF SLAB A TIME WITHOUT APPROVAL OF THE E.O.R
- 7.- SHORE SLAB APPROPRIATELY BEFORE CONCRETE REPAIR START.
- 8.- A PROFESSIONAL ENGINEERING TO SIGN AND FLORIDA REGISTERED SEAL SHORING PLAN SHORING PLANS.

C EDGE AND SURFACE CONDITIONING OF CONCRETE
TYPICAL DETAIL
N.T.S.

IF REINFORCING STEEL HAS LOST MORE THAN 5% OF ITS CROSS SECTION, A STRUCTURAL ENGINEER SHOULD BE CONSULTED. IF REPAIRS ARE REQUIRED TO THE REINFORCING STEEL, ONE OF THE FOLLOWING REPAIR METHODS SHOULD BE USED.

- COMPLETE BAR REPLACEMENT, OR
 - ADDITIONAL OF SUPPLEMENT BAR OVER AFFECTED SECTION.
- NEW BARS MAY BE MECHANICALLY SPLICED TO OLD BARS OR PLACED PARALLEL TO AND APPROXIMATELY 1/4" FROM EXISTING BARS. LAP LENGTH SHALL BE DETERMINED IN ACCORDANCE WITH ACI318; ALSO REFER TO CRSI AND AASHTO MANUAL.



D REPAIR OF REINFORCING STEEL DUE TO LOSS SECTION
TYPICAL DETAIL
N.T.S.

ISSUE	DATE
4. CITY OF MIAMI COMMENTS	01/27/2023

AMERICANO
MEDIA GROUP
STUDIO
2920 NW 7 ST
MIAMI, FL 33125

PROJECT:
INTERIOR REMODELING

CONCRETE
REPAIRS &
DETAILS



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VDES PROJECT #22078

DATE
08/15/2022

SHEET
S-01