

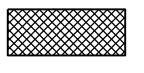
PLAN OF COLUMN

## REPAIR KEY

SECTION A-A

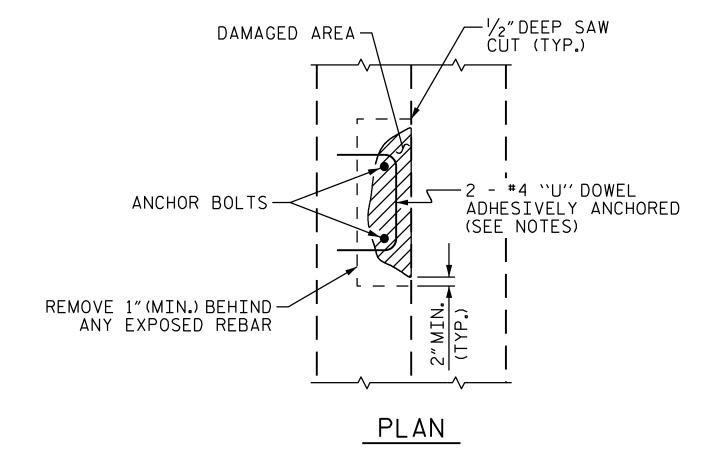
CONCRETE REPAIR AREA (FORM AND POUR)

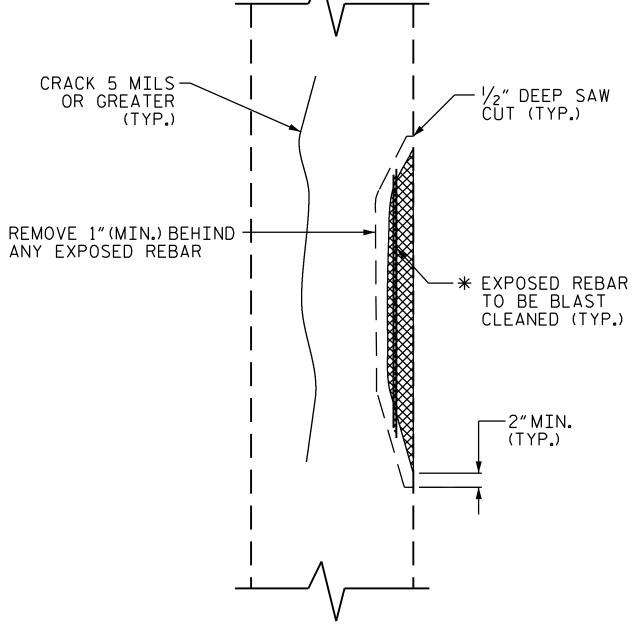
CAP REPAIR



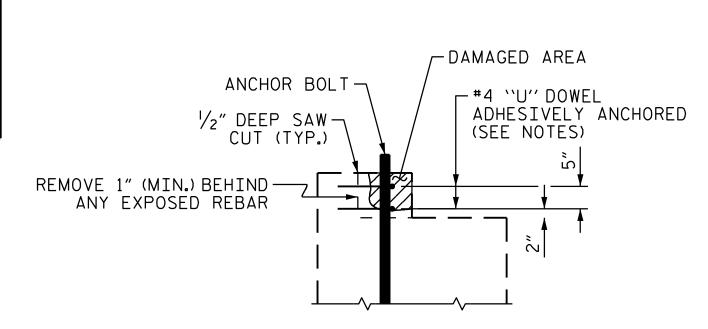
SHOTCRETE REPAIR AREA

EPOXY RESIN INJECTION (ERI)





<b>SPLICE</b>	LENGTH TABLE
BAR SIZE	MIN. SPLICE LENGTH
#4	2'-4"
#5	2'-9"
#6	4'-0"
#7	5′-3″
#8	6′-9″
#9	8'-6"
#10	10'-11"
#11	13'-4"



ELEVATION

PEDESTAL WALL REPAIR

Raleigh, NC 27607 Tel. 919-854-0344 Fax. 919-854-0355 NC License No. F-0765

## **OLKERT**

RALEIGH STANDARD TYPICAL CAP AND COLUMN REPAIR DETAILS

4/24/2024

NOTES

CHEMICALS TO REMOVE.

SPECIFICATIONS.

PROCEEDING.

PROVISIONS.

PROVISIONS.

PROVISIONS.

SHEET.

STRUTS.

TYPICAL BENT CAP REPAIRS ARE SHOWN, REPAIR

THE METHOD USED TO DELINEATE THE AREAS OF

UNSOUND CONCRETE TO BE REPAIRED SHALL NOT

DETERIORATED CONCRETE IN ACCORDANCE WITH THE GUIDELINES SET IN THESE NOTES, IN THE

PERMANENTLY MARK THE CONCRETE, LEAVE ANY

RESIDUE AFTER REMOVAL OR REQUIRE HARSH

THE CONTRACTOR SHALL REMOVE THE

SPECIAL PROVISIONS AND THE STANDARD

MINIMUM OF 2"CLEARANCE TO SAWCUT.

THE ENGINEER PRIOR TO PROCEEDING.

A CAP AND/OR COLUMN, IF THE AREAS OF

BARS, NOTIFY THE ENGINEER PRIOR TO

THE ENGINEER TO BE REPLACED, SHALL BE

BEYOND THIS POINT TO DEVELOP A SPLICE

LENGTH SPECIFIED IN THE TABLE ON THIS

STEEL IN THE PEDESTAL WALL SHALL BE

DOWELS, SEE STANDARD SPECIFICATIONS.

MINIMUM OF 3"ON ALL POSSIBLE SIDES.

FOR SHOTCRETE REPAIRS. SEE SPECIAL

FOR CONCRETE REPAIRS. SEE SPECIAL

PROJ. NO. \_\_\_

REMOVE UNSOUND CONCRETE TO THE EXTENT NECESSARY, MINIMUM OF 1"BEHIND REBAR AND

NO MORE THAN ONE-THIRD OF THE CAP OR COLUMN CROSS SECTIONAL AREA SHALL BE

REMOVED AT ONE TIME. SHOULD IT BECOME NECESSARY TO REMOVE MORE THAN 30% OF A CAP OR COLUMN CROSS SECTIONAL AREA, NOTIFY

SIMULTANEOUS REMOVAL OF UNSOUND CONCRETE MAY BE PERMITTED ON MORE THAN ONE FACE OF

REMOVAL ARE NOT ADJACENT TO OR DIRECTLY OPPOSITE ONE ANOTHER. IF REMOVAL EXTENDS

MORE THAN 11/2" BEHIND THE MAIN REINFORCING

REINFORCING STEEL WHICH IS DETERMINED BY

REMOVED TO A POINT WHERE IT IS SOUND. THE PATCH SHALL EXTEND A SUFFICIENT DISTANCE

THE #4 "U" DOWELS ARE REQUIRED ONLY AROUND THE ANCHOR BOLTS. THE EXISTING REINFORCING

CLEANED, STRAIGHTENED AND REMAIN IN PLACE.

FOR ADHESIVELY ANCHORED ANCHOR BOLTS OR

COAT ALL REPAIR SURFACE AREAS ON THE TOP OF CAPS, INCLUDING CHAMFERS, WITH EPOXY COATING, OVERLAPPING THE REPAIR AREA BY A

FOR EPOXY COATING, SEE SPECIAL PROVISIONS.

FOR EPOXY RESIN INJECTION (ERI), SEE SPECIAL

DETAILS SIMILAR FOR END BENT CAPS AND

SHEET NO REVISIONS S-155 DATE: DATE: BY: TOTAL SHEETS 156

15BPR.130

CHATHAM, MOORE COUNTY

BRIDGE No. 180007, 180477, 620049, 620072

STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION

OCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

DATE: 04/2024

DATE: 04/2024

ASSEMBLED BY : D. A. GLADDEN

CHECKED BY : E. E. MURRAY

DRAWN BY: NAP 8/18

CHECKED BY :

\* REPAIR LENGTH SHALL NOT EXCEED 10 FEET.

ELEVATION OF COLUMN

COLUMN REPAIR