

FD ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	STATE AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
3	GA.					

### HOOK DETAILS

RECOMMENDED 180° HOOKS

GRADE 40 ksi  
 D = 5d for #3 through #11  
 D = 3d for #14 and #18  
 GRADES 50-60 ksi  
 D = 5d for #3 through #8  
 D = 3d for #9 through #11  
 D = 4d for #14 and #18

RECOMMENDED 180° HOOK DIMENSIONS

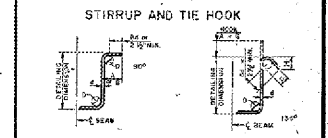
GRADE (ksi)	BAR SIZE (in.)	MIN. HOOK LENGTH (in.)	MIN. HOOK DEVELOPMENT LENGTH (in.)
40	#3	2 1/2	5
40	#4	3	6
40	#5	3 1/2	7
40	#6	4	8
40	#7	4 1/2	9
40	#8	5	10
40	#9	5 1/2	11
40	#10	6	12
40	#11	6 1/2	13
40	#14	8	16
40	#18	10	20

### RECOMMENDED 90° END HOOK DIMENSIONS

ALL GRADES  
 D = 5d for #3 through #8  
 D = 3d for #9, #10, and #11  
 D = 10d for #14 and #18

BAR SIZE (in.)	HOOK A (in.)	HOOK B (in.)
#3	5	5
#4	6	6
#5	7	7
#6	8	8
#7	9	9
#8	10	10
#9	11	11
#10	12	12
#11	13	13
#14	16	16
#18	20	20

HOOK STYLE 3



### STIRRUPS (TIES SIMILAR)

#### STIRRUP AND THE HOOK DIMENSIONS

GRADES 40-60 ksi

BAR SIZE (in.)	D (in.)	90° HOOK		180° HOOK	
		HOOK A or C (in.)	HOOK B or D (in.)	HOOK A or C (in.)	HOOK B or D (in.)
#3	1/8	4	4	2 1/2	2 1/2
#4	1/4	4 1/2	4 1/2	3	3
#5	3/8	5	5	3 1/2	3 1/2
#6	1/2	5 1/2	5 1/2	4	4

STYLE 4 5

STYLE 6 - NO HOOK

HOOK STYLES DETAILED ON THIS SHEET ARE FOR ILLUSTRATION ONLY. ACTUAL HOOK STYLE FOR ANY PARTICULAR BAR WILL BE SHOWN UNDER A OR G HEADING ON BAR SCHEDULE.

### NOTES

ALL DIMENSIONS ARE OUT TO OUT UNLESS NOTED.  
 ALL RADII ARE OUTSIDE.  
 SEE HOOK DETAILS FOR HOOK DESCRIPTIONS AND NOTES.  
 A DIMENSION SHOWN AS ZERO ON BAR SCHEDULE DELETES THAT PART OF BAR TYPE.

STATE HIGHWAY DEPARTMENT OF GEORGIA  
 BRIDGE DIVISION

## STANDARD BAR BENDING DETAILS

NO SCALE AUGUST 1969

DESIGNED: [Signature] SUBMITTED: [Signature] NUMBER 3901  
 DRAWN: E.S.A. TRACER: B.J.H. APPROVED: [Signature] STATE HIGHWAY ENGINEER

Order Plans @ WWW.WLDLINE.COM

**INFRASTRUCTURE CONSULTING & ENGINEERING**  
 4940 PEACHTREE INDUSTRIAL BLVD., SUITE 310  
 NORCROSS, GEORGIA 30071

NOT TO SCALE

REVISION DATES

**GEORGIA STANDARDS**  
 SR 18 BRIDGE REPLACEMENT @ LONG CANE CREEK  
 TROUP COUNTY

CHECKED:	DATE:	DRAWING No.
BACKCHECKED:	DATE:	41-0014
CORRECTED:	DATE:	
VERIFIED:	DATE:	