



| BEND | | SIZE | | | | | | | | | |
|---------|------------------------|-------|-------|-------|-------|-------|-------|--------|--------|--------|--------|
| | | 3" | 4" | 6" | 8" | 10" | 12" | 16" | 20" | 24" | 30" |
| 11 1/4' | L | 3'-0" | 3'-0" | 4'-0" | 4'-0" | 4'-6" | 5'-0" | 6'-6" | 8'-0" | 9'-0" | 10'-0" |
| | M | 3'-0" | 3'-0" | 4'-0" | 4'-0" | 4'-6" | 5'-0" | 6'-6" | 8'-0" | 9'-0" | 10'-0" |
| | N | 3'-0" | 3'-0" | 3'-0" | 4'-0" | 4'-0" | 4'-6" | 5'-0" | 5'-0" | 6'-0" | 6'-0" |
| | REINF. BARS NO. & SIZE | 3 #7 | 3 #7 | 3 #7 | 3 #8 | 3 #8 | 3 #8 | 3 #8 | 3 #10 | 3 #10 | 3 #10 |
| 22 1/2' | L | 3'-0" | 4'-0" | 5'-0" | 5'-6" | 7'-0" | 8'-0" | 9'-0" | 11'-0" | 12'-0" | 14'-0" |
| | M | 3'-0" | 4'-0" | 5'-0" | 5'-6" | 7'-0" | 8'-0" | 9'-0" | 11'-0" | 12'-0" | 14'-0" |
| | N | 3'-0" | 3'-0" | 5'-0" | 5'-0" | 5'-0" | 5'-0" | 6'-0" | 7'-0" | 8'-0" | 9'-0" |
| | REINF. BARS NO. & SIZE | 3 #7 | 3 #7 | 3 #7 | 3 #8 | 3 #8 | 4 #8 | 4 #8 | 3 #10 | 4 #10 | 4 #10 |
| 45° | L | 4'-0" | 5'-0" | 6'-0" | 7'-0" | 8'-0" | 9'-0" | 12'-0" | 15'-0" | 17'-0" | 20'-0" |
| | M | 4'-0" | 5'-0" | 6'-0" | 7'-0" | 8'-0" | 9'-0" | 12'-0" | 15'-0" | 17'-0" | 20'-0" |
| | N | 3'-0" | 4'-0" | 4'-0" | 5'-0" | 5'-6" | 6'-0" | 7'-0" | 8'-0" | 9'-0" | 10'-0" |
| | REINF. BARS NO. & SIZE | 3 #7 | 3 #7 | 3 #7 | 3 #8 | 4 #8 | 4 #8 | 4 #10 | 4 #10 | 4 #10 | 4 #11 |

NOTES:

1. $f'_c = 3000\text{psi}$ AT 28 DAYS.
2. CARRY ALL BEARING SURFACES TO UNDISTURBED EARTH OR FIRM SUBGRADE.
3. THE ANCHORAGE DIMENSIONS ARE BASED ON THE TOTAL PRESSURE OF 300 psi. WHERE THE PRESSURE IS DIFFERENT, THE VOLUME OF CONCRETE (i.e. $L \times W \times D$) SHALL BE PROPORTIONED TO REQUIRED PRESSURE.
4. USE A HIGH-EARLY MIX AND ALLOW TO CURE A MINIMUM OF 4 HOURS PRIOR TO BACKFILLING.

CHARLES COUNTY GOVERNMENT

DEPARTMENT OF PLANNING & GROWTH MANAGEMENT

APPROVED:

[Signature] 6/29/95
DIRECTOR OF DEVELOPMENT SERVICES DATE

[Signature] 6/29/95
WATER / SEWER ENGINEER DATE

STANDARD DETAIL

ANCHORAGE FOR
 11 1/4', 22 1/2'
 & 45° UPPER
 VERTICAL BENDS

REVISIONS:

B
 1.05