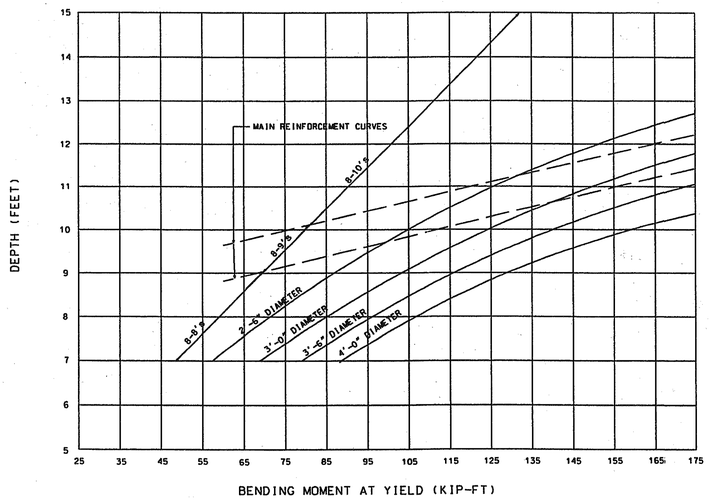
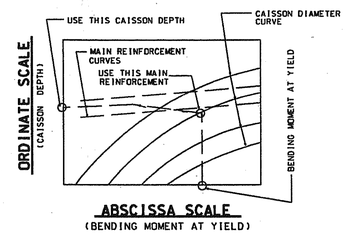
STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.	STP-0005-00(893)	76	92

PIEDMONT

γ= 120 PCF
ϕ= 25 DEGREES
C= 300 PCF



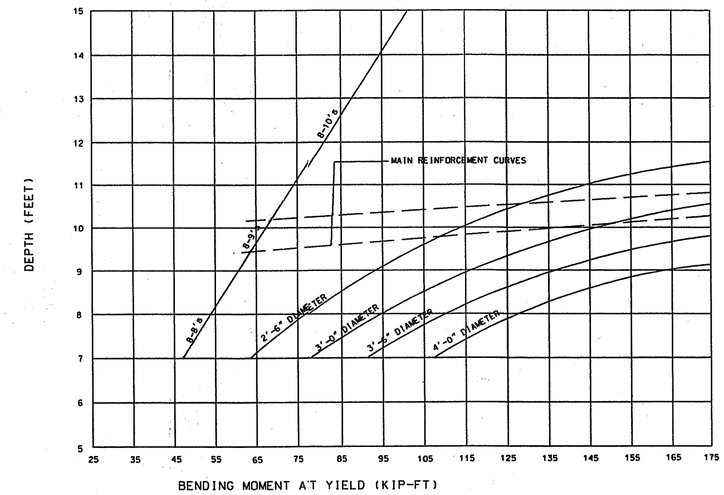


PROCEDURE TO FIND FOOTING SIZE

1. DETERMINE "BENDING MOMENT AT YIELD" FROM APPROVED SHOP DTAWINGS
2. SELECT DIAMETER OF CAISSON.
3. READ "BENDING MOMENT AT YIELD" ON ABSCISSA SCALE. PROJECT A VERTICAL LINE UPWARD UNTIL THE DESIRED "CAISSON DIAMENTER CURVE" IS INTERSECTED. TURN 90 DEGREES AND PROJECT A HORIZONTAL LINE UNTIL THE ORDIANATE SCALE IS INTERSECTED.
4. READ THE REQUIRED " CAISSON DEPTH" FROM THE INTERSECTION POINT ON THE ORDINATE SCALE DEPTH SHALL BE INTERPOLATED TO THE NEAREST 3 INCH INCREMENT.
5. READ THE REQUIRED "MAIN REINFORCEMENT SIZE" FROM THE INTERXECTION POINT ON THE CAISSON DIANETER CURVE.

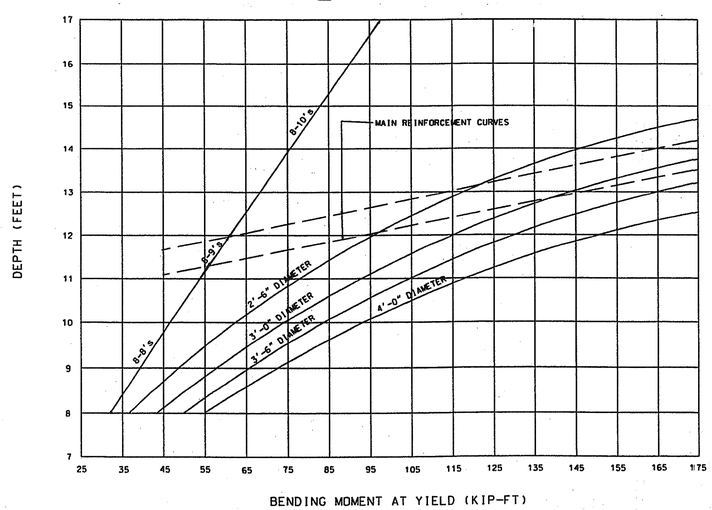
VALLEY & RIDGE

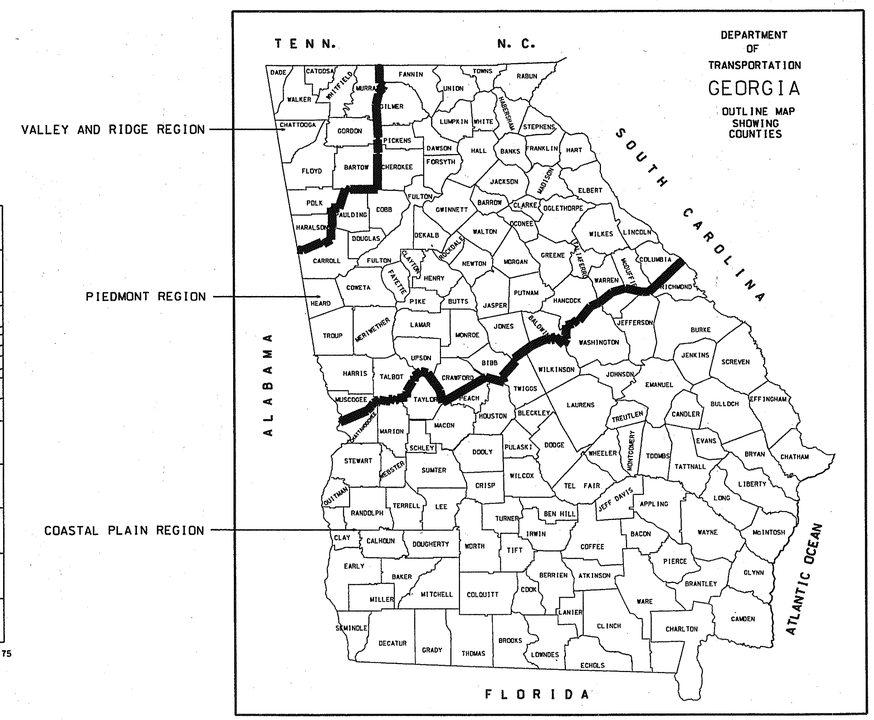
γ= 115 PCF
ϕ= 18 DEGREES
C= 750 PSF



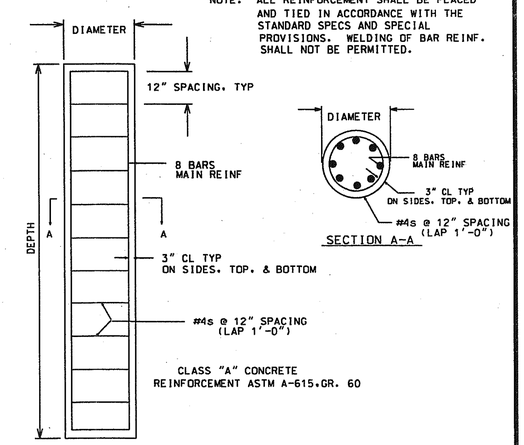
COASTAL PLAIN

γ= 120 PCF
ϕ= 32 DEGREES
C= 0 PCF





NOTE: ALL REINFORCEMENT SHALL BE PLACED AND TIED IN ACCORDANCE WITH THE STANDARD SPECS AND SPECIAL PROVISIONS. WELDING OF BAR REINF. SHALL NOT BE PERMITTED.



CAISSON DETAIL

DATE	REVISIONS

GEORGIA DEPARTMENT OF TRANSPORTATION
OFFICE OF TRAFFIC SAFETY & DESIGN

DETAILS OF
STRAIN POLE AND
MAST ARM POLE FOUNDATIONS

NO SCALE — DECEMBER 1998

PCBOTB
...\TS 06 - Pole Foundations.dgn Mar. 09, 2004 13:43:02