STATE OF
NORTH CAROLINA
DEPT. OF TRANSPORTATION

THE ANALYSIS AND DESIGN OF MULTIPLE COLUMN PIERS

E75700

SHEET ___ of ___

I.D.

PROG.	PROB. NO.	REMARKS, PROJECT NUMBER, COUNTY, NAME, DATE, ETC.
* B 0	3	

DESIGN DATA

CN	DESIGN OPTION: CAP COLUMN	FOOTING	F.S. or L.F.	CANTILEVER	NO. COLUMN	NO. LIVE LOAD CASE	SKEW ANGLE DEG.	MIN.	SEC.	f'_c P.S.I. (3.000)	f_c P.S.I. (1.250)	N (9)	f_y P.S.I. (40.000)	f_s P.S.I. (20.000)	E_c K.S.I. (3.150)	E_s K.S.I. (29.000)	ϵ_c (.0030)	Z (175.)	BAR SIZE (11)	STR. SIZE (5)	MAX. T.B. (6)	MAX. B.B. (6)	MIN. SIZE (11)	MIN. BARS (8)	TOP CLEAR IN. (2.0)	MIN. STR. SP. IN. (4.0)	CAP D. INCR. IN. (2.0)	SUIT. CLEAR IN. (2.01)
01																												

COLUMN DESIGN DATA / FOOTING DESIGN DATA

CN	MIN P_B % (1.00)	MAX P_B % (0.00)	MIN SPAC IN. (2.25)	CLEAR IN. (2.563)	R	K_L (2.00)	ϕ_C (0-0.35) (L-0.75)	ϕ_F (0-0.35) (L-0.85)	C_M	B_{D1} (1.00)	B_{D2}	IMPACT %	SOIL WEIGHT K.C.F. (0.120)	ALLOWABLE SOIL PRESS. K.S.F.	MIN PL. SP. FEET (2.50)	MAX. PL. SP. FEET (5.00)	EDGE DISTANCE FEET (1.250)	PILE DEPTH FEET (0.75)	CLEAR IN. (3.00)	PILE CAPACITY KIPS	PILE UPLIFT KIPS	IF
02																						

CANTILEVER AND CAP DATA

CN	I	L FT.	A FT.	D_E FT.	B_C FT.	B_E FT.	D_H FT.	L_H FT.	X_{B1} FT.	X_{B2} FT.	X_{B3} FT.	X_{B4} FT.	X_{B5} FT.	X_{B6} FT.	X_{B7} FT.	X_{B8} FT.
11																
12																
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16																

COLUMN DATA

CN	R	I	T	S	H_T FT.	A FT.	D_T FT.	B_T FT.	D_B FT.	B_B FT.	D_L FT.	FLEX	REINFORCEMENT STEEL LOWER LIMIT / ACTUAL TOP ND	NB	SIZE	BOTTOM ND	NB	SIZE	UPPER LIMIT TOP ND	NB	SIZE	BOTTOM ND	NB	SIZE	SLOPE	E_T P.S.I.	A_P SQ. IN.
21																											
22																											
23																											
24																											
25																											

FOOTING DATA

CN	TYPE	B FT.	D FT.	T FT.	ΔB FT.	ΔD FT.	ΔT FT.	R_{B2}	R_{B3}	SOIL HT FT.	NP	S	B_P FT.	D_P FT.	SETTLE FT.
31															
32															
33															
34															
35															