

IDENTIFICATION

PROG.	PROB. NO.	REMARKS, PROJECT NUMBER, COUNTY, NAME, DATE, ETC.
*B03		

DESIGN DATA

CN	DES.	OPT.	C	NO. COL.	NO. LLC	SKEW ANGLE			GENERAL DESIGN DATA									CAP DESIGN DATA							
						DEG	MIN	SEC	18	22	29	33	39	42	47	Z	BAR SIZE	STR. SIZE	MAX T.B.	MAX B.B.	MIN. SIZE	MIN. BARS	TOP CL.	MIN. S. SP.	CAP D. INCR.
01																									

COLUMN DESIGN DATA

CN	MIN. P _s	MAX. P _s	MIN. SPAC.	CLEAR	R	K _L	Φ _C	Φ _F	C _H	β _{D1}	β _{D2}	IMPACT %	SOIL WEIGHT	ALL. S.P.	MIN. PL. SP.	MAX. PL. SP.	EDGE DIST.	PILE DEPTH	CLEAR	PL. CAP _K	PL. UPL _K	
02																						

CANTILEVER AND CAP DATA

CN	I	L	A	DE	Bc	BE	DH	LH	XB1	XB2	XB3	XB4	XB5	XB6	XB7	XB8
11																
12																
13																
14																
15																
16																

COLUMN DATA

CN	P _s	I	T	S	HT	A	DT	BT	DB	BB	DL	FLEX	REINFORCEMENT STEEL								SLOPE	EP	AP ₈₀				
													LOWER LIMIT / ACTUAL				UPPER LIMIT / ACTUAL										
													NO	NB	SIZE	NO	NB	SIZE	NO	NB	SIZE	NO	NB	SIZE			
21																											
22																											
23																											
24																											
25																											

FOOTING DATA

CN	B	D	T	ΔB	ΔD	ΔT	R _{B/D}	R _{D/B}	SOIL HT.	NP	B _P	D _P	SETTLE
31													
32													
33													
34													
35													

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION

DEFAULTS :

- f_c - 3000 PSI
- f_c - .4 (f_c)
- N - E_s / E_c
- G_s - 40,000 PSI
- G_s - 20,000 PSI
- E_c - 145 33(f_c) KSI
- E_s - 29,000 KSI
- E_c - .0030 IN./IN.
- Z - 170
- BAR SIZE - 11
- STR. SIZE - 5
- MAX. T.B. - 6
- MAX. B.B. - 6
- MIN. SIZE- BAR SIZE
- MIN. BARS - 0
- TOP CL. - 2 IN.
- MIN. S. SP. - 4 IN.
- CAP D. INCR. - 3 IN.
- BOT. CL. - 2.31 IN.
- MIN. P_s - 1%
- MAX. P_s - 8%
- MIN. SPAC. - 2.25 IN.
- CLEAR (COL.) - 2.563 IN.
- R - 1 ROUND / SPIRAL
- K_L - 2.0
- Φ_C - .75 ROUND / SPIRAL
- .75 TIED
- Φ_F - .9 LOAD FACTOR
- Φ_C, Φ_F - .35 S.L.
- C - COMPUTED
- B_{D1} - 1.0
- MIN PL. SP. - 2.5 FT.
- MAX PL. SP. - 5.0 FT.
- EDGE DIST. - 1.25 FT.
- PILE DEPTH - .75 FT.
- CLEAR (FTG.) - 3.0 IN.

GROUP II WIND

CN	SUPERSTRUCTURE AREA		WIND ON SUPERSTRUCTURE INTENSITY										WIND FORCE ARMS		WIND ON PIER	
	TRANS.	LONG.	FT ₁	FL ₁	FT ₂	FL ₂	FT ₃	FL ₃	FT ₄	FL ₄	FT ₅	FL ₅	APT	APL	P _T	P _L
4.1																

GROUP III WIND

CN	WIND ON SUPERSTRUCTURE INTENSITY										WIND ON LIVE LOAD INTENSITY										LENGTH OF LIVE LOADS		WIND ON L.L. ARMS			
	FT ₁	FL ₁	FT ₂	FL ₂	FT ₃	FL ₃	FT ₄	FL ₄	FT ₅	FL ₅	FT ₁	FL ₁	FT ₂	FL ₂	FT ₃	FL ₃	FT ₄	FL ₄	FT ₅	FL ₅	TRANS.	LONG.	APT	APL		
4.2																										

FORCES - KIPS
 INTENSITY - LBS./FT.²
 AREAS - FT.²
 LENGTHS - FT.
 TRACTION AND CENTRIFUGAL FORCE - I LAN
 COEFFICIENTS - UNITS/UNITS

MISCELLANEOUS FORCES

* COLUMNS 51, 52 MUST BE 0.1 FOR SEISMIC CONSIDERATION

CN	CENT. FORCE	TRACTION FORCE	C.F. & T.F. ARMS		EXPANSION	SHRINKAGR	STREAM FLOW		EQ
	FT	FL	APT	APL	COEFFICIENT	COEFFICIENT	P _T	P _L	
4.3									

STD. W. GR. II, III SUPERSTRUCTURE
 FT - 50 44 41 33 17
 FL - 0 6 12 16 19
 STD. W. GR. III LIVE LOAD
 FT - 100 88 82 66 34
 FL - 0 12 24 32 38

SEISMIC FORCES

CN	LONGITUDINAL LOADING - LOAD CASE 1 (ALL POSITIVE)							TRANSVERSE LOADING - LOAD CASE 2 (ALL POSITIVE)						
	VL TOP	VT TOP	ML BOT.	ML TOP	MT BOT.	MT TOP	P TOP	VL TOP	VT TOP	ML BOT.	ML TOP	MT BOT.	MT TOP	P TOP
4.4														
4.4														
4.4														
4.4														
4.4														

DEAD LOAD SUPERSTRUCTURE AND LIVE LOAD CASES (ONE LIVE LOAD CASE REQUIRED - MAXIMUM IS 25 CASES)

CN	I.D.	NL	P 1, 13, 25	P 2, 14, 26	P 3, 15, 27	P 4, 16, 28	P 5, 17, 29	P 6, 18, 30	P 7, 19, 31	P 8, 20, 32	P 9, 21, 33	P 10, 22, 34	P 11, 23, 35	P 12, 24, 36
5.1														
6.1														
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