E7580M

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION

PRESTRESSED CONCRETE CORED SLAB

FREE – STYLE DESCRIPTION

H	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50
H																																																			

C	CARD NO.	LIVE LOAD CODE	CONCRETE STRENGTH Fo MPa (35)	CONCRETE STRENGTH Foi MPa (28)	MODULUS OF ELASTICITY AT REL MPa X 10 (FORMULA)	MODULUS OF ELASTICITY 28 DAYS MPa X 10 (FORMULA)	CONCRETE TENSION ALLOW MIDSPAN FINAL MPa (0)	FIXED LOSSES IN P/S STRANDS MPa AT RELEASE PHASE I (SPECS)	FIXED LOSSES IN P/S STRANDS MPa FINAL TOTAL (SPECS)	REIN-FORCING STEEL FS MPa	REIN-FORCING STEEL FY MPa

C	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50
C																																																			

I	CARD NO.	FIXED DEAD LOADS EXTRA kN/m	FIXED DEAD LOADS WS kN/m	FIXED DEAD LOADS FWS kN/m	FIXED DEAD LOADS RAIL kN/m	ROADWAY SECTION TYP (1)	ROADWAY SECTION SLOPE %	ROADWAY SECTION WS DEPTH AT ℄ mm	ROADWAY SECTION 1 DES. ROADWAY WIDTH m	ROADWAY SECTION 2 RAIL WIDTH mm	ROADWAY SECTION 3 OVERHANG CLEAR mm	LIVE LOAD SIDE WALK kN/m	LIVE LOAD LOAD FRACTION %	FIX NO. LINE	FIX NO. SLAB UNITS

I	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48
I					*			*			*			*							*				*										*			*					*						

NON-STANDARD STRAND TYPE (04)

L	CARD NO.	STRAND AREA mm²	INITIAL PRESTRESS (BEFORE LOSSES)	STRAND DESCRIPTION DIAMETER OF STRAND	STRAND DESCRIPTION GRADE 1860 1720 MPa
		*		*	

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
						*												*						

NON-STANDARD STRAND ARRANGEMENT

M	CARD NO.	SLAB UNIT TYPE	STRAND TYPE	NO. OF STRANDS TOTAL	NO. OF STRANDS ROW T1	NO. OF STRANDS ROW B1	NO. OF STRANDS ROW B2	NO. OF STRANDS ROW B3	STRAND HEIGHTS FROM BOTTOM TO TI mm	STRAND HEIGHTS FROM BOTTOM TO B1 mm	STRAND HEIGHTS FROM BOTTOM TO B2 mm	STRAND HEIGHTS FROM BOTTOM TO B3 mm	SHEATHING B1	SHEATHING B2	SHEATHING B3	SHEATHING mm

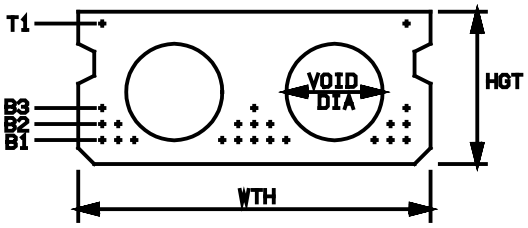
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47

NON-STANDARD SLAB UNIT TYPE (05)

N	CARD NO.	WIDTH mm	HEIGHT mm	VOID DIAMETER mm	AREA CROSS SECTION mm²	MOMENT INERTIA mm⁴ x 10³	SECTION MODULUS mm⁴ x 10³	SLAB WEIGHT kN/m

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40

NOTE..
"L", "M", "N" CARDS MUST IMMEDIATELY PRECEDE THE "Q" CARD WHICH THEY ARE REFERENCING



SLAB UNIT TYPE NO.	DESCRIPTION
01	AASHTO SIII
02	AASHTO SIV
03	BM-1
04	BM-2
05	ENTER WITH "N" CARD

ONLY STANDARD TYPES USED IN "M" CARD

STRAND TYPE (M CARD COLS. 6-7) (Q CARD COLS. 12-13) NO.	DIA.	AREA	GRADE
01	11.11	74.19	1860 S.R.
02	12.70	98.71	1860 S.R.
03	11.11	78.32	1720 S.R.
04	DATA ENTERED WITH L CARD		
05	11.11	74.19	1860 L.R.
06	12.70	98.71	1860 L.R.
07	11.91	85.81	1860 L.R.
08	12.70	107.74	1860 L.R.
09	FOR FUTURE USE		

LIVE LOAD	
01	MS18
02	M18
03	MS13.5
04	M13.5
05	NONE

Q	CARD NO.	DESIGN SPAN m	"Y" CARD NO.	X FOR L-H-N	FIX STRAND TYPE	FIX TOTAL NO. STRANDS	FIX SLAB UNIT TYPE	DESCRIPT
		*						

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
Q					*																

DATE = OCTOBER 1993 REV.