CULVERT DESIGN

DEVELOPED BY NORTH CAROLINA AS PART OF A COOPERATIVE EFFORT

E76700

N	RUN	NAME (FIRST / LAST)	PHONE	FREE STYLE HEADING	PROJECT	DATE

I	REG. LIVE LOAD: Δ CODE (1)	OMIT > H	Ø > FILL	OVERLOAD STANDARD AXLE WEIGHT (LB)	SERVICE/LOAD FACT	16TH PT. M&S	INFLU. LINE	POSITN OF DESIGN NEGTV. MOMENT (Ø.Ø)	SOIL WEIGHT (120) (PCF)	REINF. YIELD STR (60,000) (PSI)	ALLOW. STEEL STRESS (24,000) (PSI)	COMPR. STRENGTH OF CONCRETE (9,000) (PSI)	ALLOW. CONCRETE SHEAR STRESS	ALLOW. CONCRETE SHEAR STRESS WITH STIRRUP	THICKNESS INCREMENT: SLAB (0.5 IN)	THICKNESS INCREMENT: WALL (0.5 IN)	CONCRETE COVER: EXTERIOR: TOP SLAB (2.0 IN)	CONCRETE COVER: EXTERIOR: BOTT SLAB (3.0 IN)	CONCRETE COVER: EXTERIOR: WALL (2.0 IN)	CONCRETE COVER: INT-ERIOR (2.0 IN)	SAME: SLAB	SAME: WALL	SAME: BAR SCHEDULE	BAR SPACING: MAX 12 IN	BAR SPACING: MIN 4 IN	BAR SIZE: MAX #11	BAR SIZE: MIN #4	BAR SIZE: N = 9.Ø
1																												

2	EXTRA UNIFORM LOAD K/FT	EXTRA CONCENTRATE LOAD: LOAD NO. 1: WEIGHT KIP	LOAD NO. 1: POSITN FT	LOAD NO. 2: WEIGHT KIP	LOAD NO. 2: POSITN FT	LOAD NO. 3: WEIGHT KIP	LOAD NO. 3: POSITN FT	SPL ALT. LIVE LOAD: WHEEL LOAD KIP	EARTH FILL ABOVE SLAB FT	OVER-STRESS FACTOR (1.0)
1										

P	MAX. STEEL RATIO
1	

NOTES:

CARDS #, 1 AND 3 ARE REQUIRED.

STANDARD CONSTANTS ARE USED IF 1 IS TYPED IN COL. 1 OF CARD 1.

CARDS 2 AND P ARE OPTIONAL DATA.

Δ	CODE
1	HS20
2	H 20
3	HS15
4	H 15
5	HS10
6	H 10
8	SPCL
9	NONE

3	CARD #	NO. OF BOXES	CLEAR SPAN (FT)	CLEAR HEIGHT (FT)	DESIGN FILL (FROM BOTTOM OF TOP SLAB) (FT)	LENGTH ALONG CENTERLINE (FT)	SKEW ANGLES (HEADWALL LINE AHEAD TO C.L. CULVERT): LEFT	RIGHT	NO. FLOR-K.M	TOP SLAB: THICKNESS (7.0 IN)	TOP SLAB: FIX = F	BOTTOM SLAB: THICKNESS (7.0 IN)	BOTTOM SLAB: FIX = F	EXTERIOR WALL: THICKNESS (8.0 IN)	EXTERIOR WALL: FIX = F	INTERIOR WALL: THICKNESS (8.0 IN)	INTERIOR WALL: FIX = F	LIVE LOAD SURCHARGE (2.Ø FT)	SOIL PRESS: MAXIMUM (30 PCF)	SOIL PRESS: MINIMUM (15 PCF)	WATER PRESSURE 62.4 PCF	HAUNCH: TOP 4.0 IN.	HAUNCH: BOTTOM 0 IN.	X-BY SPEC	EL.IN H. WALL	COMMENTS
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