

STATE OF NORTH CAROLINA
DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS
RALEIGH, N.C.

7-06

ENGLISH STANDARD DRAWING FOR
SPRING BOX
CONCRETE OR BRICK

SHEET 1 OF 1
840.41

PLAN
COVER REMOVED

SECTION X-X OR Y-Y

GENERAL NOTES:

USE CLASS "B" CONCRETE THROUGHOUT.

OPTIONAL CONSTRUCTION OF CONCRETE BOX - MONOLITHIC POUR, 2" KEYWAY, OR #4 BAR DOWELS AT 12" CENTERS AS DIRECTED BY THE ENGINEER.

REINFORCING STEEL (A-BARS) TO BE #3 STRAIGHT BARS, 12 BARS REQUIRED 2'-9" LONG FOR CONCRETE BOX AND 3'-1" LONG FOR BRICK BOX. DIMENSIONS OF BOX MAY BE CHANGED BY THE ENGINEER.

MORTAR JOINTS 1/2" ± 1/8" THICK.

CONCAVE TOOL ALL EXPOSED JOINTS.

USE FORMS TO CONSTRUCT THE BOTTOM SLAB.

JUMBO BRICK WILL BE PERMITTED. CONCRETE BRICK OR 4" SOLID CONCRETE BLOCKS MAY BE USED IN LIEU OF CLAY BRICK.

PLAN OF COVER
FOR BRICK BOX | FOR CONCRETE BOX

DOWEL

SECTION V-V OR W-W

FILL HEIGHT	TOP SLAB THICKNESS	CONC. CU. YD.	REINF. LBS.
25' OR LESS	6"	0.722	12
26' THRU 50'	6 1/2"*	0.737	22
51' THRU 75'	7 1/2"	0.742	34
76' THRU 100'	8 1/2"	0.792	34

FILL HEIGHT	TOP SLAB THICKNESS	CONC. CU. YD.	BRICK CU. YD.	TOTAL CU. YD.	REINF. LBS.
25' OR LESS	6"	0.535	0.395	0.930	14
26' THRU 50'	6 1/2"*	0.552	0.395	0.947	25
51' THRU 75'	7 1/2"	0.586	0.395	0.981	39
76' THRU 100'	8 1/2"	0.620	0.395	1.015	39

* USE THIS TOP SLAB FOR LIVE LOAD UP TO 2' OF FILL.

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