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

7-06

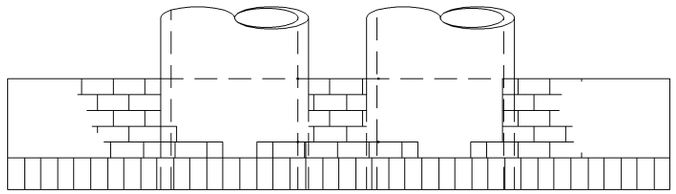
ENGLISH STANDARD DRAWING FOR

BRICK ENDWALL FOR SINGLE AND DOUBLE PIPE CULVERTS

15″ THRU 48″ PIPE - 90° SKEW

SHEET 1 OF 1

838.11



PLAN

GENERAL NOTES:

-ALL MORTAR JOINTS ARE ½″ ± ⅛″.

-BOND BRICKWORK WITH FULL HEADERS EVERY THREE COURSES.

-CONCAVE TOOL ALL EXPOSED JOINTS.

-DO NOT INTERPRET WALL THICKNESS (T) SHOWN AS THE THICKNESS ACCEPTABLE, BUT IS USED ONLY IN COMPUTING ENDWALL DIMENSIONS AND QUANTITIES.

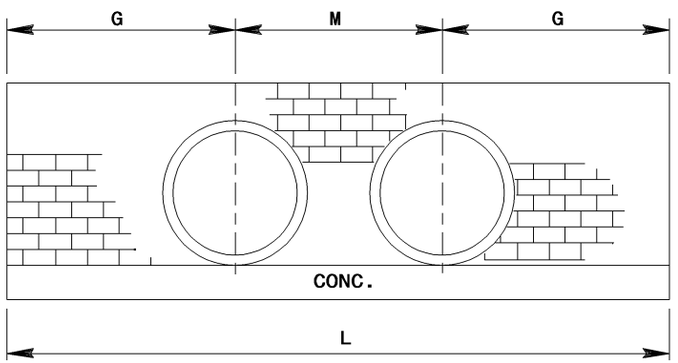
-CONSTRUCT THE BASE WITH FORMS.

-USE CLASS 'B' CONCRETE.

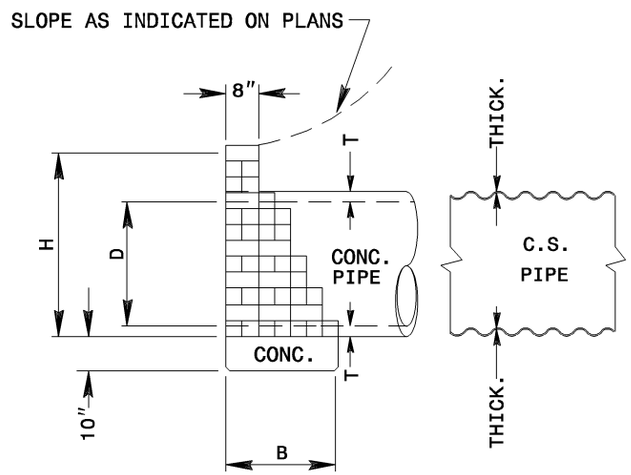
-PAY FOR CONCRETE AS BRICK MASONRY.

-CONCRETE BRICK MAY BE USED IN LIEU OF CLAY BRICK.

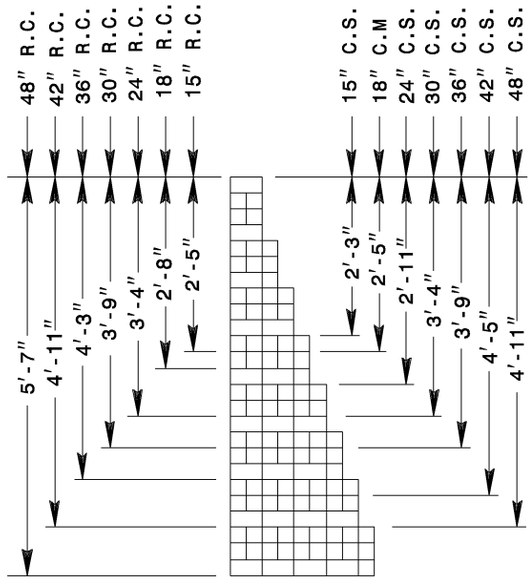
-JUMBO BRICK WILL BE PERMITTED.



ELEVATION



END ELEVATION



TYPICAL SECTION THRU WALL

DIMENSIONS AND QUANTITIES

USING CONCRETE PIPE

	COMMON DIMS.				SINGLE PIPE			DOUBLE PIPE			
D	H	B	G	T	L	BRICK YD³	CONC. YD³	M	L	BRICK YD³	CONC. YD³
15″	2′-5″	1′-8″	2′-10″	1⅞″	5′-8″	0.441	0.291	2′-2″	7′-10″	0.555	0.403
18″	2′-8″	1′-8″	3′-2″	2″	6′-4″	0.562	0.326	2′-7″	8′-11″	0.722	0.459
24″	3′-4″	2′-0″	4′-1″	3″	8′-2″	1.008	0.504	3′-5″	11′-7″	1.285	0.715
30″	3′-9″	2′-4″	4′-8″	3½″	9′-4″	1.391	0.672	4′-3″	13′-7″	1.820	0.978
36″	4′-3″	2′-4″	5′-5″	4″	10′-10″	1.895	0.780	5′-0″	15′-10″	2.462	1.140
42″	4′-11″	2′-8″	6′-4″	5¼″	12′-8″	2.867	1.043	5′-10″	18′-6″	3.729	1.523
48″	5′-7″	3′-0″	7′-3″	5¾″	14′-6″	4.032	1.343	6′-8″	21′-2″	5.184	1.960

USING CORRUGATED METAL PIPE

	COMMON DIMS.				SINGLE PIPE			DOUBLE PIPE			
D	H	B	G	L	L	BRICK YD³	CONC. YD³	M	L	BRICK YD³	CONC. YD³
15″	2′-3″	1′-4″	2′-9″	5′-6″	5′-6″	0.384	0.226	1′-11″	7′-5″	0.482	0.305
18″	2′-5″	1′-8″	3′-0″	6′-0″	6′-0″	0.478	0.309	2′-3″	8′-3″	0.605	0.424
24″	2′-11″	1′-8″	3′-9″	7′-6″	7′-6″	0.749	0.386	3′-0″	10′-6″	0.954	0.540
30″	3′-4″	2′-0″	4′-5″	8′-10″	8′-10″	1.090	0.545	3′-9″	12′-7″	1.399	0.777
36″	3′-9″	2′-4″	5′-0″	10′-0″	10′-0″	1.503	0.720	4′-6″	14′-6″	1.965	1.044
42″	4′-5″	2′-8″	6′-0″	12′-0″	12′-0″	2.373	0.988	5′-3″	17′-3″	3.062	1.420
48″	4′-11″	2′-8″	6′-9″	13′-6″	13′-6″	3.102	1.111	6′-0″	19′-6″	4.002	1.606

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