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 Jhewerton AT CSD-292595

5/14/99

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

ENGLISH DETAIL DRAWING FOR  
**EXTRA DEPTH  
 CONCRETE CATCH BASIN**  
 12" THRU 84" PIPE

SHEET 1 OF 2  
**840D02**

GENERAL NOTES:  
 USE CLASS "B" CONCRETE THROUGHOUT.  
 PROVIDE ALL CATCH BASINS OVER 3'-6" IN DEPTH WITH STEPS 12" ON CENTER. USE STEPS WHICH COMPLY WITH STD. DRAWING 840.66.  
 OPTIONAL CONSTRUCTION - MONOLITHIC POUR, 2" KEYWAY, OR #4 BAR DOWELS AT 12 CENTERS AS DIRECTED BY THE ENGINEER.  
 USE FORMS FOR THE CONSTRUCTION OF THE BOTTOM SLAB.  
 IF REINFORCED CONCRETE PIPE IS SET IN BOTTOM SLAB OF BOX, ADD TO SLAB AS SHOWN ON STD. NO. 840.00.  
 USE TYPE "E", "F" AND "G" GRATES UNLESS OTHERWISE INDICATED.  
 \* USE 6" WALLS FOR BOXES UP TO 8' IN HEIGHT. USE 8" WALLS, 8" BOTTOM SLAB AND 8" TOP SLAB FOR BOXES GREATER THAN 8' IN HEIGHT AND UP TO 20' IN HEIGHT.  
 CONSTRUCT WITH PIPE CORNERS MATCHING.  
 CHAMFER ALL EXPOSED CORNERS 1".  
 \*\* FOR STRUCTURES WITH PIPE LARGER THAN 54", MAKE THE TOP SLAB 8" THICK.

**SECTION X-X**

**SECTION Y-Y**

**SECTION J-J**

**SECTION M-M**

**PLAN**

**DETAIL SHOWING METHOD OF RISER CONSTRUCTION**

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SHEET 2 OF 2  
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GENERAL NOTES:  
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**SECTION S-S**

**SECTION R-R**

**PLAN OF TOP SLAB**

**DOWEL**

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GENERAL NOTES:  
 NORMAL CURB AND GUTTER ON STEEP GRADES  
 NORMAL CURB AND GUTTER ON LIGHT GRADES  
 USE ON FLAT TOP GRADES 2% AND UNDER  
 USE ON GRADES OVER 2%  
 EXPANSION JOINT 1'-0" MAX.

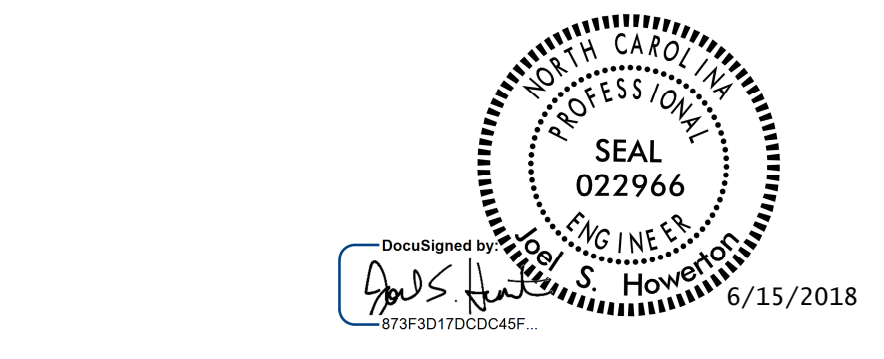
**ELEVATION**

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\* RISER HAS .228 CUBIC YARDS OF CONCRETE PER FOOT HEIGHT

PIPE D.	MINIMUM DIMENSIONS OF BOX AND PIPE			COVER DIMENSION			BARS-U			BARS-V			BARS-W			TOTAL LBS.			DEDUCTIONS		
	SPAN	WIDTH	HEIGHT	E	F	H	NO.	LENGTH	NO.	LENGTH	NO.	LENGTH	NO.	LENGTH	NO.	LENGTH	NO.	LENGTH	C.M.	R.C.	
12"	3'-0"	2'-2"	2'-0"	2'-0"	2'-3"	3'-1"	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
15"	3'-0"	2'-2"	2'-0"	2'-0"	2'-3"	3'-1"	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
18"	3'-0"	2'-2"	2'-0"	2'-0"	2'-3"	3'-1"	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
24"	3'-0"	2'-2"	2'-0"	2'-0"	2'-3"	3'-1"	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
30"	3'-0"	2'-2"	2'-0"	2'-0"	2'-3"	3'-1"	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
36"	3'-0"	2'-2"	2'-0"	2'-0"	2'-3"	3'-1"	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
42"	3'-0"	2'-2"	2'-0"	2'-0"	2'-3"	3'-1"	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
48"	3'-0"	2'-2"	2'-0"	2'-0"	2'-3"	3'-1"	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
54"	3'-0"	2'-2"	2'-0"	2'-0"	2'-3"	3'-1"	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
60"	3'-0"	2'-2"	2'-0"	2'-0"	2'-3"	3'-1"	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
66"	3'-0"	2'-2"	2'-0"	2'-0"	2'-3"	3'-1"	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
72"	3'-0"	2'-2"	2'-0"	2'-0"	2'-3"	3'-1"	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
78"	3'-0"	2'-2"	2'-0"	2'-0"	2'-3"	3'-1"	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
84"	3'-0"	2'-2"	2'-0"	2'-0"	2'-3"	3'-1"	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..



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**CONTRACT STANDARDS  
 AND DEVELOPMENT UNIT**  
 Office 919-707-6950 FAX 919-250-4119

SEE PLATE FOR TITLE

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