

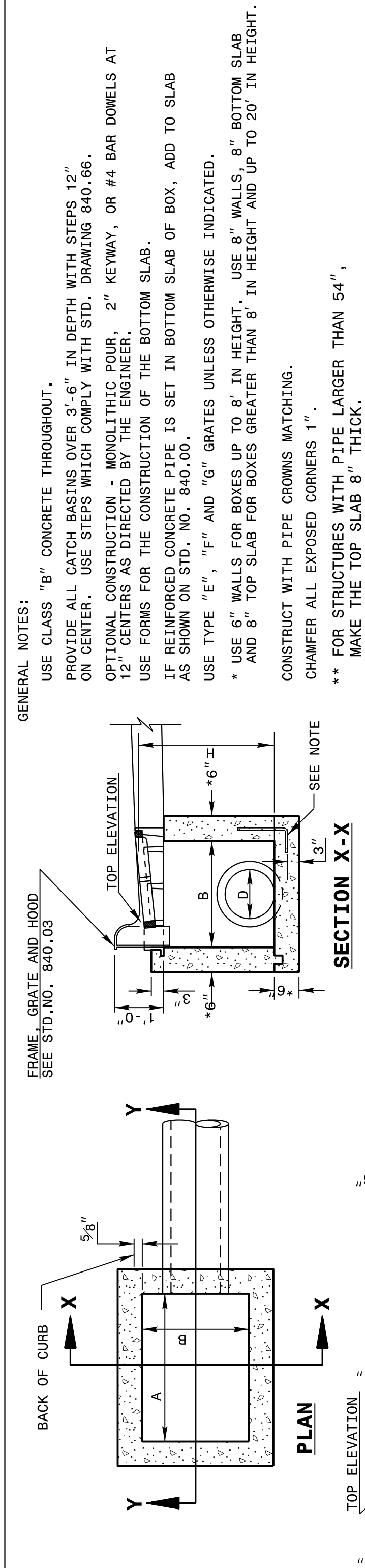
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 Jhewerton AT CSD-292595

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

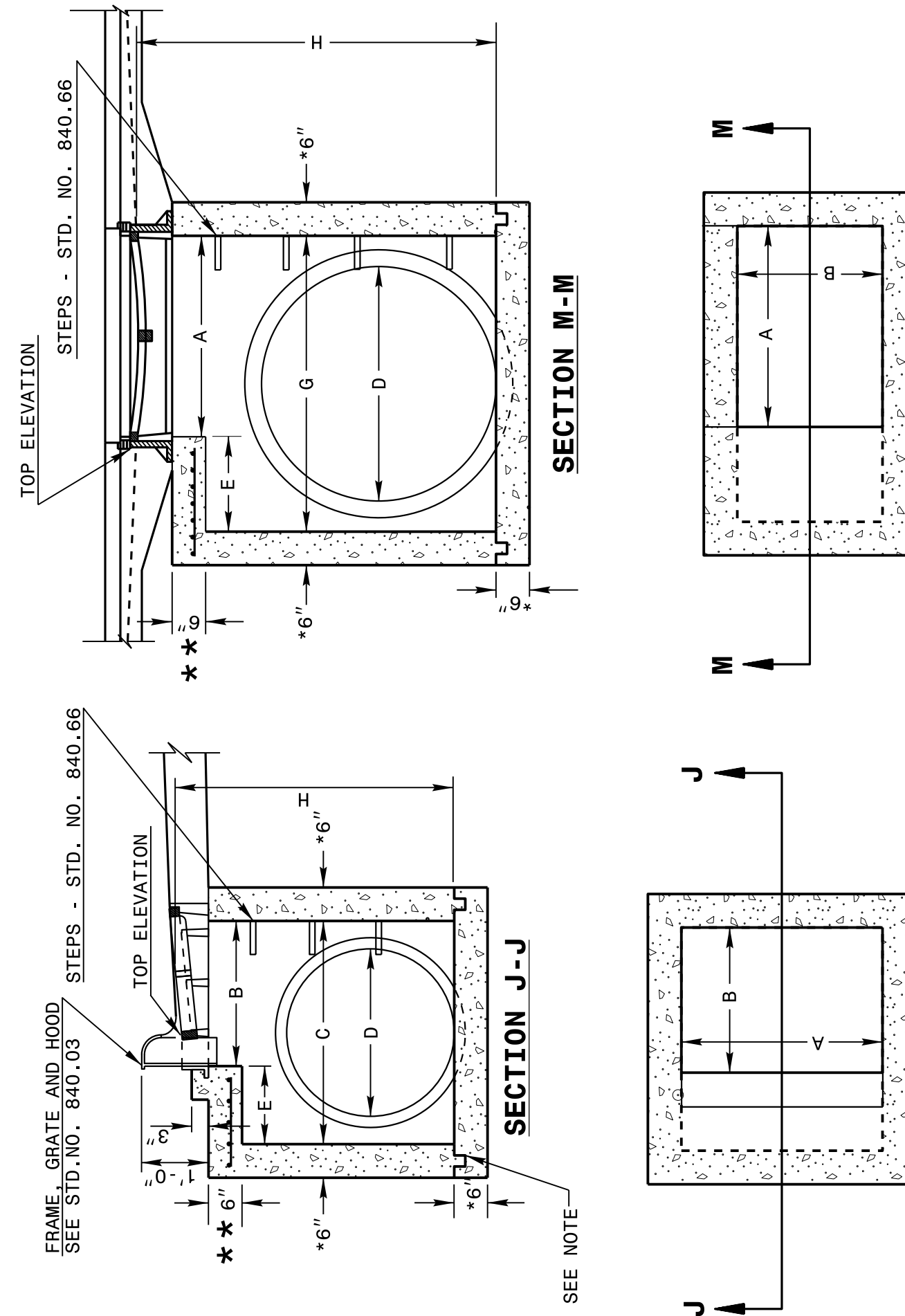


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GENERAL NOTES:
 USE CLASS "B" CONCRETE THROUGHOUT.
 PROVIDE ALL CATCH BASINS OVER 3'-6" IN DEPTH WITH STEPS 12" ON CENTER. USE STEPS WHICH COMPLY WITH STD. DRAWING 840.66.
 OPTIONAL CONSTRUCTION - MONOLITHIC POUR, 2" KEYWAY, OR #4 BAR DOWELS AT 12 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.

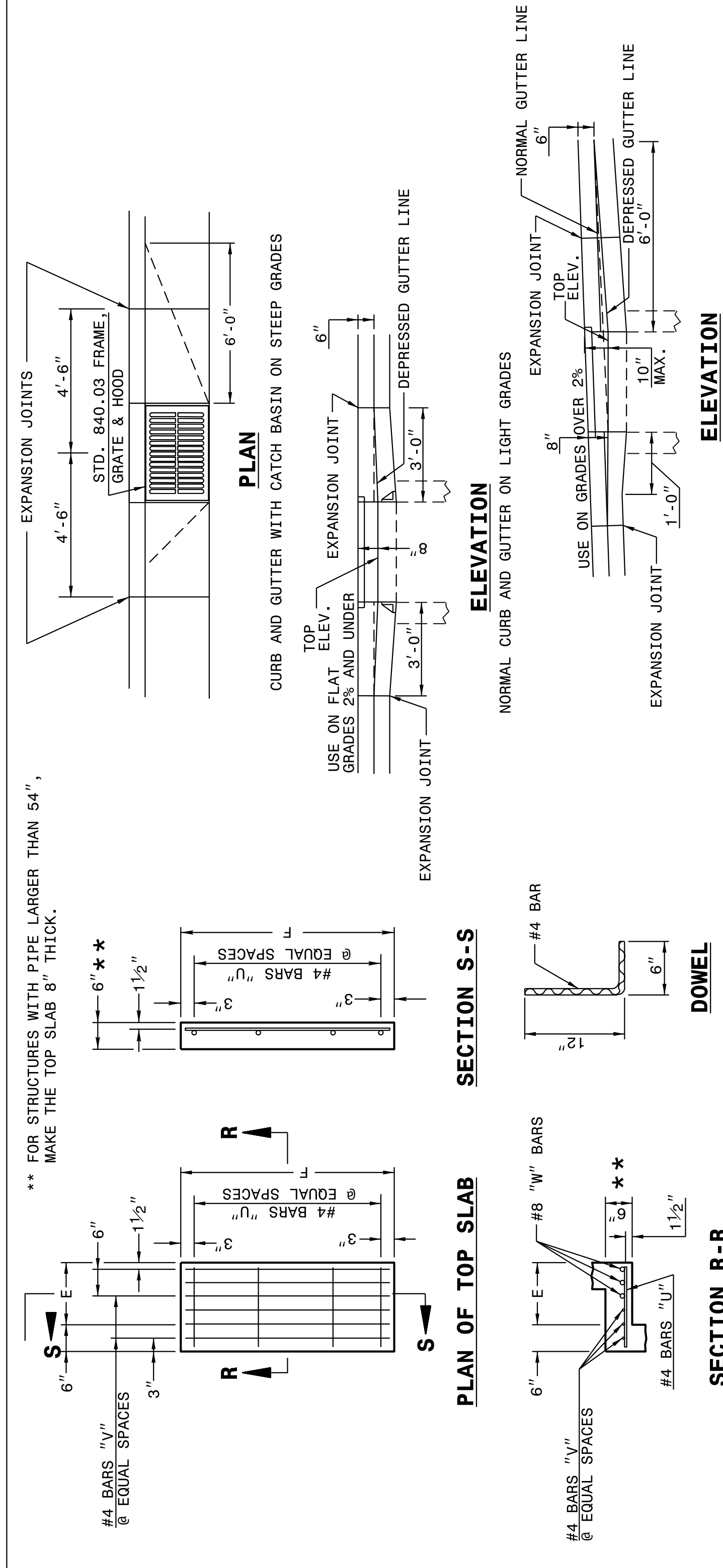


DETAIL SHOWING METHOD OF RISER CONSTRUCTION

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SHEET 2 OF 2
840D02



SECTION R-R

SECTION S-S

ELEVATION

ELEVATION

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 12" THRU 84" PIPE

SHEET 2 OF 2
840D02

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

PIPE D.	MINIMUM DIMENSIONS OF BOX AND PIPE			COVER DIMENSION			BARS-V			BARS-W			BARS-U			BARS-Y			BARS-Z			DEDUCTIONS		
	SPAN	WIDTH	HEIGHT	E	F	G	NO.	LENGTH	NO.	LENGTH	NO.	LENGTH	NO.	LENGTH	NO.	LENGTH	TOTAL LBS.	NO.	LENGTH	NO.	LENGTH	C.M.	R.C.	
12"	3'-0"	2'-2"	2'-0"	..	2'-0"	..	..	..	..	..	..	..	..	..	..	..	0.235	0.772	0.015	0.026	0.235	0.829	0.023	0.036
15"	3'-0"	2'-2"	2'-3"	..	2'-3"	..	..	..	..	..	..	..	..	..	..	..	0.235	0.887	0.033	0.049	0.235	0.887	0.033	0.049
18"	3'-0"	2'-2"	3'-1"	..	3'-1"	..	..	..	..	..	..	..	..	..	..	..	0.235	0.887	0.033	0.049	0.235	0.887	0.033	0.049
24"	3'-0"	2'-2"	3'-4"	..	3'-4"	..	..	..	..	..	..	..	..	..	..	..	0.235	0.887	0.033	0.049	0.235	0.887	0.033	0.049
30"	3'-0"	2'-2"	3'-10"	..	3'-10"	..	..	..	..	..	..	..	..	..	..	..	0.235	0.887	0.033	0.049	0.235	0.887	0.033	0.049
36"	3'-0"	2'-2"	4'-5"	..	4'-5"	..	..	..	..	..	..	..	..	..	..	..	0.235	0.887	0.033	0.049	0.235	0.887	0.033	0.049
42"	3'-0"	2'-2"	5'-0"	..	5'-0"	..	..	..	..	..	..	..	..	..	..	..	0.235	0.887	0.033	0.049	0.235	0.887	0.033	0.049
48"	3'-0"	2'-2"	5'-7"	..	5'-7"	..	..	..	..	..	..	..	..	..	..	..	0.235	0.887	0.033	0.049	0.235	0.887	0.033	0.049
54"	3'-0"	2'-2"	6'-3"	..	6'-3"	..	..	..	..	..	..	..	..	..	..	..	0.235	0.887	0.033	0.049	0.235	0.887	0.033	0.049
60"	3'-0"	2'-2"	6'-11"	..	6'-11"	..	..	..	..	..	..	..	..	..	..	..	0.235	0.887	0.033	0.049	0.235	0.887	0.033	0.049
66"	3'-0"	2'-2"	7'-6"	..	7'-6"	..	..	..	..	..	..	..	..	..	..	..	0.235	0.887	0.033	0.049	0.235	0.887	0.033	0.049
72"	3'-0"	2'-2"	8'-1"	..	8'-1"	..	..	..	..	..	..	..	..	..	..	..	0.235	0.887	0.033	0.049	0.235	0.887	0.033	0.049
78"	3'-0"	2'-2"	8'-9"	..	8'-9"	..	..	..	..	..	..	..	..	..	..	..	0.235	0.887	0.033	0.049	0.235	0.887	0.033	0.049
84"	3'-0"	2'-2"	8'-9"	..	8'-9"	..	..	..	..	..	..	..	..	..	..	..	0.235	0.887	0.033	0.049	0.235	0.887	0.033	0.049

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

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

SEE PLATE FOR TITLE

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8/24/2021