



① For obstacles located within the traveled way where space is limited, Barrel Installation Line may be parallel to roadway centerline. In this case, Y dimension equals X dimension.

Possible Contract Items:  
Embankment In Place  
Temporary Crash Cushion

Possible Tabulation:  
108-30

### EMBANKMENT DIMENSIONS

For Obstacle Widths:	Sand Barrel Layouts Required	W	X	Y (must not be negative)	Z
3'-6" or less	1	24'-3"	Y+5'-3"	Y+3'-3"	0.268(Y+12'-0")
3'-7" - 10'-7"	2	25'-0"	Y+12'-3"	Y+10'-0"	0.268(Y+38'-0")
10'-8" - 17'-8"	3	25'-8"	Y+19'-3"	Y+17'-0"	0.268(Y+64'-0")
17'-10" - 32'-3"	4	26'-6"	Y+26'-3"	Y+24'-0"	0.268(Y+89'-0")

**Iowa Department of Transportation**

**STANDARD ROAD PLAN**

REVISIONS: New. Replaces RE-95.

*Deanna Maifeld*  
APPROVED BY DESIGN METHODS ENGINEER

**TEMPORARY CRASH CUSHIONS  
SAND BARREL**

REVISION	
New	04-20-10

BA-500

SHEET 1 of 2

