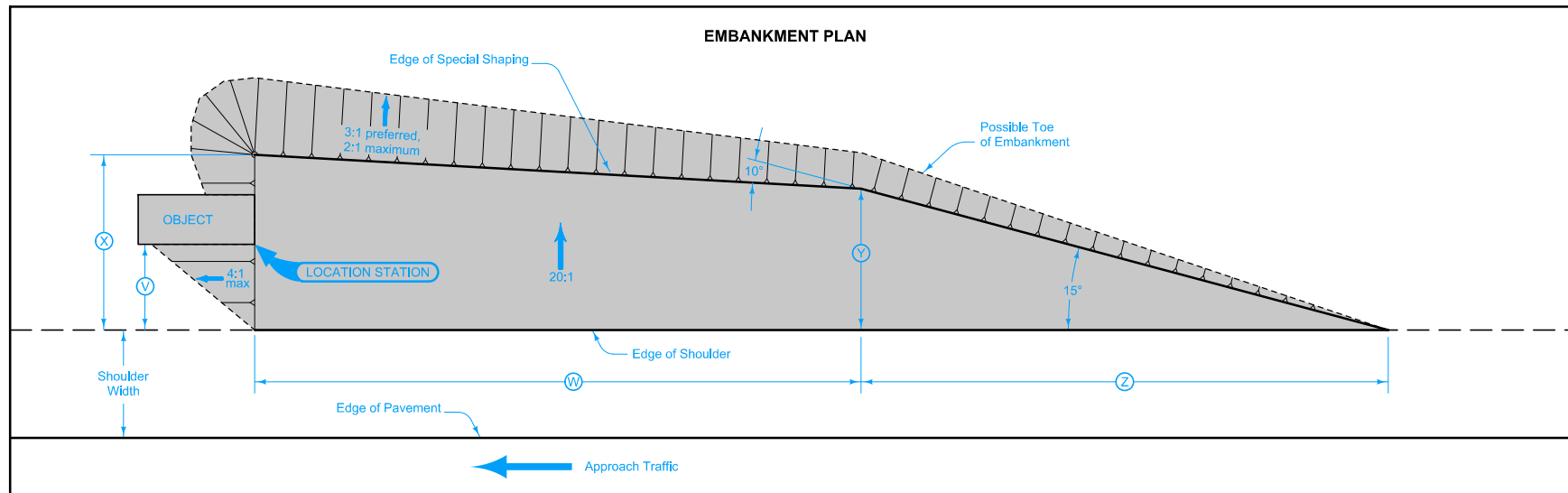
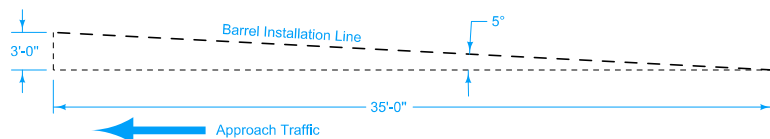




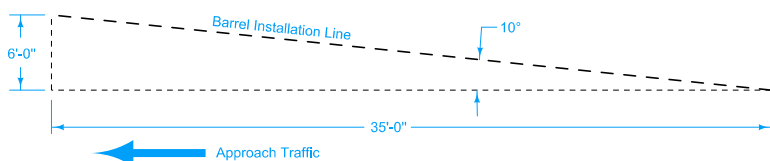
BARREL INSTALLATION LINE LAYOUT

Angle of Barrel Installation Line is measured from a line parallel to roadway centerline.

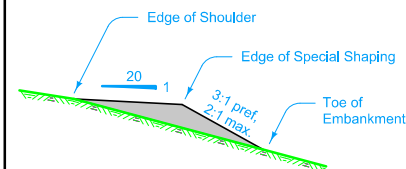
Where distance to object is less than 15 feet from edge of traveled way:



Where distance to object is 15 feet or greater from edge of traveled way:



EMBANKMENT TYPICAL SECTION



① For object 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

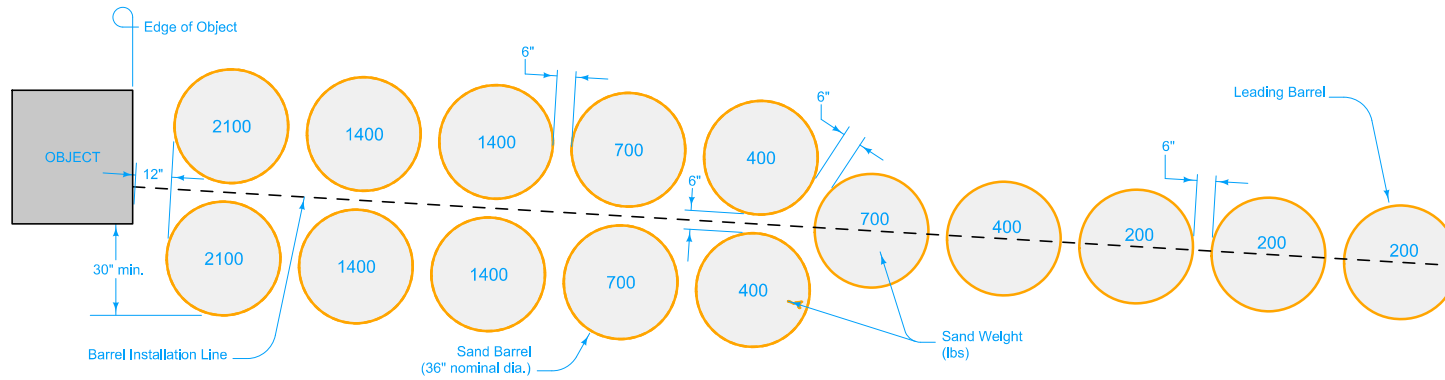
EMBANKMENT DIMENSIONS

For Object 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"	3.73(Y + 12'-0")
3'-7" - 10'-7"	2	25'-0"	Y + 12'-3"	Y + 10'-0"	3.73(Y + 38'-0")
10'-8" - 17'-9"	3	25'-9"	Y + 19'-3"	Y + 17'-0"	3.73(Y + 64'-0")
17'-10" - 32'-3"	4	26'-6"	Y + 26'-3"	Y + 24'-0"	3.73(Y + 89'-0")

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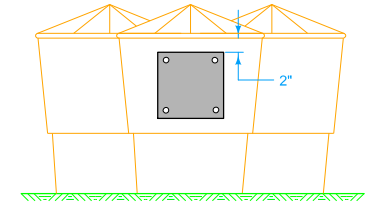
TEMPORARY CRASH CUSHIONS
SAND BARREL

SAND BARREL LAYOUT

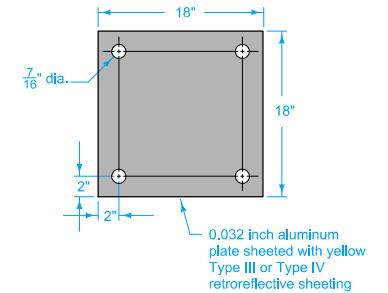


SAND BARREL DELINEATION

Mount marker plate on the leading barrel, centered on the barrel installation line.



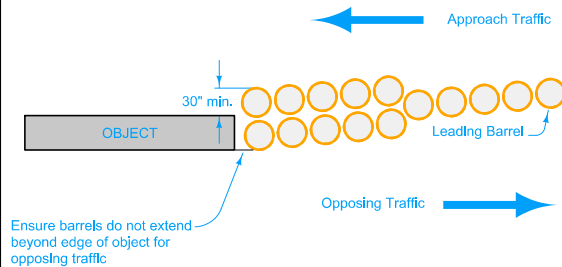
MARKER PLATE



Mount plate using four $\frac{3}{8}$ " bolts, nuts, and washers meeting the requirements of Article 4186.09 for Type A signs.

Self-adhesive sheeting meeting the above requirements may be substituted for the marker plate.

PROTECTING OBJECT BETWEEN OPPOSING TRAFFIC

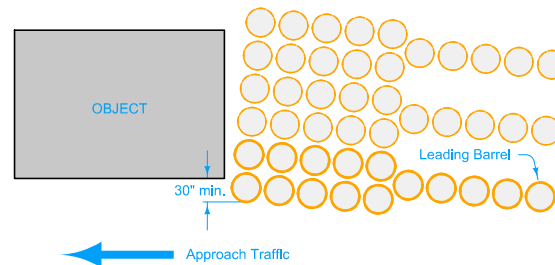


PROTECTING WIDE OBJECT

For wide object, repeat sand barrel layout as needed

An installation consisting of multiple sand barrel layouts, similar to the one shown, will be measured as a single crash cushion.

All barrels separated by 6 inches.



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REVISIONS: Changed Obstacle to Object.

APPROVED BY DESIGN METHODS ENGINEER

TEMPORARY CRASH CUSHIONS
SAND BARREL