

Stone Size Range (m)	Stone Weight Range (kg)	Percent of Gradation Smaller Than
1.5 D <sub>50</sub> to 1.7 D <sub>50</sub>	3.0 W <sub>50</sub> to 5.0 W <sub>50</sub>	100
1.2 D <sub>50</sub> to 1.4 D <sub>50</sub>	2.0 W <sub>50</sub> to 2.75 W <sub>50</sub>	85
1.0 D <sub>50</sub> to 1.15 D <sub>50</sub>	1.0 W <sub>50</sub> to 1.5 W <sub>50</sub>	50
0.4 D <sub>50</sub> to 0.6 D <sub>50</sub>	0.1 W <sub>50</sub> to 0.2 W <sub>50</sub>	15

**ROCK RIPRAP GRADATION LIMITS**

**Figure 38-6H**