



**DECK GRATING CHART**

BAR TYPE	MIN. PROPERTIES
Primary Bar	I = 4.137 in <sup>4</sup> , S <sub>x</sub> = 14.08 in <sup>3</sup> , W <sub>x</sub> = 9.83 lb/ft, A <sub>x</sub> = 1.839 in <sup>2</sup>
Secondary Bar	2 1/16" x 1/2"
Tertiary "D" Bar	1" x 3/32"
Tertiary Diag. Bar	1" x 3/32"

Note: 1. The minimum section modulus for a one-foot width of grating shall be 3.65 in<sup>3</sup> based upon a 50% effectiveness of the intermediate and reticulate bars.  
 2. Grating shall weigh 19 lbs. per sq.ft. with a maximum variation of 1 lb., plus or minus.  
 3. See Special Provisions.

**BILL OF MATERIAL**

SYMBOL	ITEM	UNIT	QUANTITY
	Open Steel Floor	Sq. Ft.	280

- Notes:**
- Pavement Markings shall be replaced to the satisfaction of the Engineer. Cost included in Open Steel Floor.
  - See Special Provisions for additional Open Steel Floor requirements.

FILE NAME =	USER NAME =	DESIGNED - AMS	REVISED -
		CHECKED - JMH	REVISED -
	PLOT SCALE =	DRAWN - PRH	REVISED -
	PLOT DATE =	CHECKED - AMS	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**STEEL GRID DECK REPAIRS  
STRUCTURE NO. 099-0239**

SHEET NO. S3 OF 55 SHEETS

F.A.U. R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
297	2011-065-BR	WILL	33	25
CONTRACT NO. 60P84				
ILLINOIS FED. AID PROJECT				