

# 2010 SCIENCE OLYMPIAD DIV. B ELEVATED BRIDGE BUILDING

THE MAXIMUM LOAD CARRIED AND SCORED WILL BE 15 KILOGRAMS.

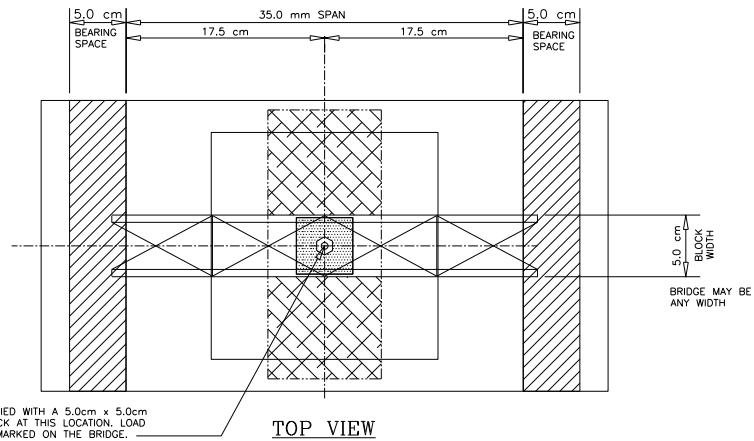
BRIDGES ARE SCORED BY SIMPLE EFFICIENCY AND RANKED AS FOLLOWS:

1. BRIDGES WHICH MEET ALL SPECIFICATIONS ARE IN THE FIRST RANK.
2. BRIDGES WHICH DO NOT MEET THE SPECIFICATIONS ARE IN THE SECOND RANK.
3. BRIDGES WHICH CANNOT BE LOADED ARE IN THE THIRD RANK BY LIGHTEST MASS

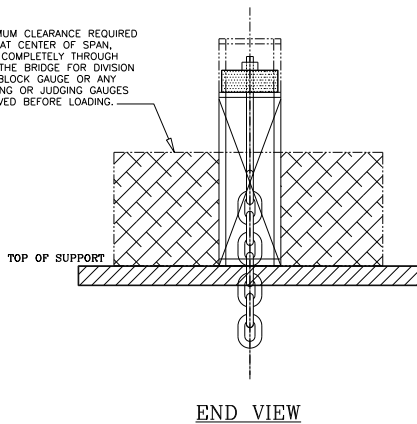
$$\text{EFFICIENCY} = \text{LOAD CARRIED}(\text{grams}) / \text{MASS OF BRIDGE}(\text{grams})$$

TIE BREAKERS:

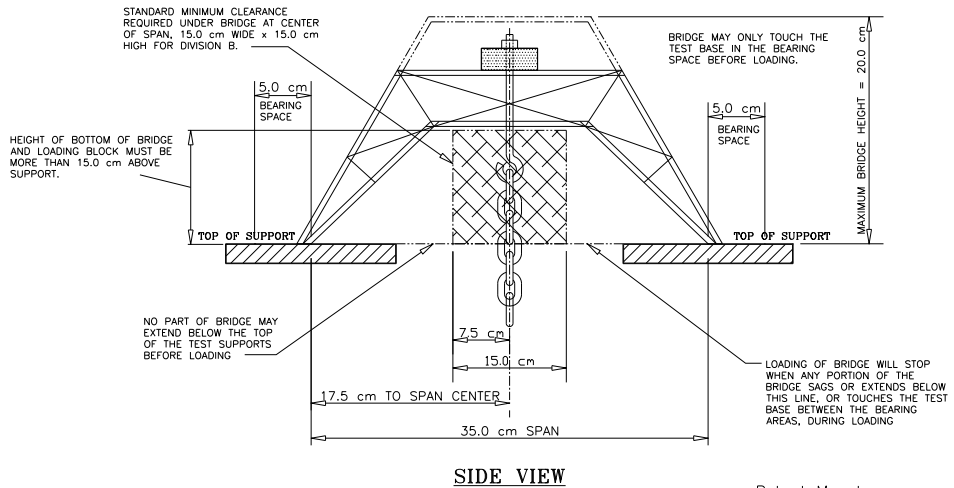
1. FIRST TIE BREAKER: BRIDGE WITH LOWER MASS WINS TIE
2. SECOND TIE BREAKER: BRIDGE WITH LOWER OVERALL HEIGHT WINS TIE



STANDARD MINIMUM CLEARANCE REQUIRED UNDER BRIDGE AT CENTER OF SPAN, 15.0 cm HIGH, COMPLETELY THROUGH THE WIDTH OF THE BRIDGE FOR DIVISION B. CLEARANCE BLOCK GAUGE OR ANY OTHER MEASURING OR JUDGING GAUGES MUST BE REMOVED BEFORE LOADING.



STANDARD MINIMUM CLEARANCE REQUIRED UNDER BRIDGE AT CENTER OF SPAN, 15.0 cm WIDE x 15.0 cm HIGH FOR DIVISION B.



Robert Monetza  
2010 Science Olympiad

# 2010 SCIENCE OLYMPIAD DIV. C ELEVATED BRIDGE BUILDING

THE MAXIMUM LOAD CARRIED AND SCORED WILL BE 15 KILOGRAMS.

BRIDGES ARE SCORED BY SIMPLE EFFICIENCY AND RANKED AS FOLLOWS:

1. BRIDGES WHICH MEET ALL SPECIFICATIONS ARE IN THE FIRST RANK.
2. BRIDGES WHICH DO NOT MEET THE SPECIFICATIONS ARE IN THE SECOND RANK.
3. BRIDGES WHICH CANNOT BE LOADED ARE IN THE THIRD RANK BY LIGHTEST MASS

EFFICIENCY = LOAD CARRIED(grams)/MASS OF BRIDGE(grams)

TIE BREAKERS:

1. FIRST TIE BREAKER: BRIDGE WITH LOWER MASS WINS TIE
2. SECOND TIE BREAKER: BRIDGE WITH LOWER OVERALL HEIGHT WINS TIE

