

New Hardware Submissions - Guardrails / Median Barriers » SGM01 » **New drawing**

<http://barrierguide.proboards31.com/index.cgi?board=sgm01&action=display&thread=1121790526>

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**New drawing**

Post by Administrator on Jul 19, 2005, 12:28pm

This is not a new system, but it was not in the last Barrier Guide. Drawing/spec is posted at <http://users.wpi.edu/~skwirl/HardwareGuide/New/Ready/Systems/sgm01.pdf>

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**Re: New drawing**

Post by TerryHale on Jul 26, 2005, 9:26am

I am not sure whether anyone (possibly North Carolina) has tested it or not, but I would like to see both the roadside and median cable barriers go to 6 inch vertical separations between the cables. I consider the 4.75 inch cable separation shown herein for the median barrier to be an improvement over the 3 inches New York developed the system with. Except for the rare instances of splice failures, we have seen no reason to clump the cables so redundantly close together (3"). A wider spread should help reduce the likelihood of both low vehicle underride and tall vehicle rollover.

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**Re: New drawing**

Post by cheimbecker on Jul 26, 2005, 9:55am

Add info. regarding maximum run length between anchors. (2000')

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**Re: New drawing**

Post by Administrator on Jul 26, 2005, 4:54pm

**Jul 26, 2005, 9:26am, TerryHale wrote:**

I am not sure whether anyone (possibly North Carolina) has tested it or not, but I would like to see both the roadside and median cable barriers go to 6 inch vertical separations between the cables.

The FHWA approval letter site does not show any approved modifications to the SGM01. It doesn't seem to show the SGM01 at all, actually. Does anyone know of testing and/or approvals for this system?

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**Rope configurations**

Post by Richard Butler on Jul 29, 2005, 4:41pm

In response to having a greater separation between the ropes, note that Brien USA has an approved TL-4 design that has ropes on 6" centers from 18.5" to 36.5".

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**Re: New drawing**

Post by Administrator on Aug 22, 2005, 1:18pm

Done.

**Jul 26, 2005, 9:55am, cheimbecker wrote:**

Add info. regarding maximum run length between anchors. (2000')

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**Re: New drawing**

Post by Administrator on Sept 8, 2005, 1:57pm

Regarding approvals: D. Powers of FHWA says, "The cable median barrier in the RDG was successfully tested by TTI for Washington State. No acceptance letter was written as it was intended to be covered in B-64." He sent me a copy of a supplement to B-64, which I have included in the SGM01 file.

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**Re: New drawing**

Post by Dick Albin on Sept 12, 2005, 10:32am

The Cable Median Barrier was tested to NCHRP 350, Test Level 3. Both the small car and pickup truck test were performed. The system that was tested had a top cable mounted at 30" but had 4 1/2" between the cables, not 4.75. I suspect that conversion and reconversion to metric are the reason that 4.75" is shown. I recommend that this be changed to 4 1/2". We did not ask FHWA for an acceptance letter. The reference and link is for the roadside barrier. The testing is documented in TRR 1743. I believe that this reference should be added.

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