



U.S. Department
of Transportation
**Federal Highway
Administration**

1200 New Jersey Avenue, SE
Washington, D.C. 20590

January 27, 2010

In Reply Refer To:
HSSD/B-97A

Mr. Leo Yodock
President
The Yodock Wall Company
P.O. Box 354
Bloomsburg, PA 17815

Dear Mr. Yodock:

In your letter of August 4, 2009, you requested the Federal Highway Administration (FHWA) acceptance of your modified barrier, the 2001M or Metropolitan, for use as a crashworthy barrier in work zones on the National Highway System (NHS). The modified 2001M is now made of blow molded high-density polyethylene. The FHWA Acceptance Letter B-97 was issued for the original 2001M for use with the Yodock Barrier Wall Kit as a redirection barrier.

The Yodock Metropolitan is a portable energy disbursement cell, used for traffic channelization. When installed as a longitudinal Barrier Wall the units must be accessorized with the Yodock Barrier Wall Kit. When installed as a longitudinal Channelizer the units can be interlocked end to end and coupled together. The Metropolitan is manufactured with High Density Polyethylene. The units can be joined together by a unique coupling device that aids in the prevention of separation of the individual units. The Metropolitan has a functional length of 72 inches, it is 18 inches wide at the base, and 32 inches tall. It has a nominal empty weight of 80 lbs and a water ballasted weight of approximately 900 lbs.

Accompanying your letter were the FHWA Office of Safety Design forms, a drawing of the modified 2001M, and a copy of a test report that documented static testing conducted on your modified device to verify connection strength between units linked together and to compare the results to the previously accepted 2001M device. The results of testing indicated that the connection strength did not exceed that of the original 2001M.

You have requested that we find this device acceptable as meeting NCHRP Report 350 Test Level 2 criteria for use on the NHS.



This letter is to acknowledge the FHWA's acceptance of the modified device and your request. Conditions in FHWA Acceptance Letter B-97 continue to apply. The original completed forms, drawing, and test report are appended to our recent Acceptance Letter WZ-127#1 which accepts the modified 20001M units for use in longitudinal channelizing devices.

Sincerely yours,

David A. Nicol, P.E
Director, Office of Safety Design
Office of Safety

Enclosures

FHWA:HSSD:NArtimovich:tb:x61331:1/11/10

File: s://directoryfolder/nartimovich/B97A_WZ127#1YodockMetropolitanBARRIER_10710.doc

cc: HSSD (Reader, HSA; Chron File, HSSD; N.Artimovich, HSSD; DNicol, HSSD)



U.S. Department
of Transportation
**Federal Highway
Administration**

1200 New Jersey Avenue, SE
Washington, D.C. 20590

January 27, 2010

In Reply Refer To:
HSSD/B-97A

Mr. Leo Yodock
President
The Yodock Wall Company
P.O. Box 354
Bloomsburg, PA 17815

Dear Mr. Yodock:

In your letter of August 4, 2009, you requested the Federal Highway Administration (FHWA) acceptance of your modified barrier, the 2001M or Metropolitan, for use as a crashworthy barrier in work zones on the National Highway System (NHS). The modified 2001M is now made of blow molded high-density polyethylene. The FHWA Acceptance Letter B-97 was issued for the original 2001M for use with the Yodock Barrier Wall Kit as a redirection barrier.

The Yodock Metropolitan is a portable energy disbursement cell, used for traffic channelization. When installed as a longitudinal Barrier Wall the units must be accessorized with the Yodock Barrier Wall Kit. When installed as a longitudinal Channelizer the units can be interlocked end to end and coupled together. The Metropolitan is manufactured with High Density Polyethylene. The units can be joined together by a unique coupling device that aids in the prevention of separation of the individual units. The Metropolitan has a functional length of 72 inches, it is 18 inches wide at the base, and 32 inches tall. It has a nominal empty weight of 80 lbs and a water ballasted weight of approximately 900 lbs.

Accompanying your letter were the FHWA Office of Safety Design forms, a drawing of the modified 2001M, and a copy of a test report that documented static testing conducted on your modified device to verify connection strength between units linked together and to compare the results to the previously accepted 2001M device. The results of testing indicated that the connection strength did not exceed that of the original 2001M.

You have requested that we find this device acceptable as meeting NCHRP Report 350 Test Level 2 criteria for use on the NHS.



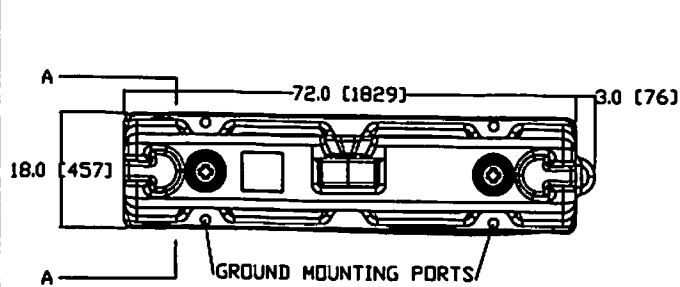
This letter is to acknowledge the FHWA's acceptance of the modified device and your request. Conditions in FHWA Acceptance Letter B-97 continue to apply. The original completed forms, drawing, and test report are appended to our recent Acceptance Letter WZ-127#1 which accepts the modified 20001M units for use in longitudinal channelizing devices.

Sincerely yours,

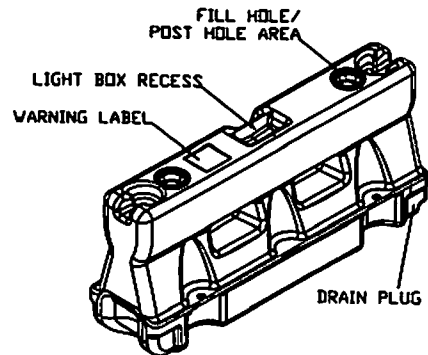
A handwritten signature in black ink, appearing to read "David A. Nicol". The signature is fluid and cursive, with a large initial "D" and "N".

David A. Nicol, P.E
Director, Office of Safety Design
Office of Safety

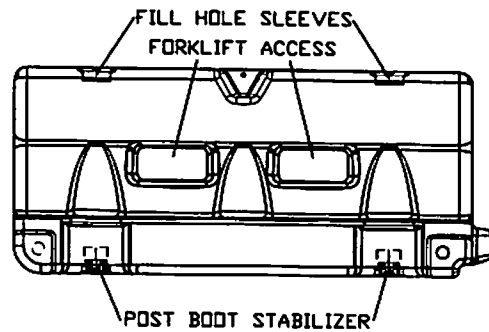
Enclosures



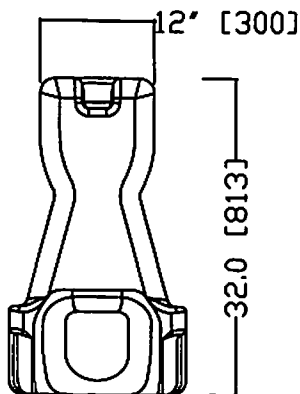
PLAN VIEW



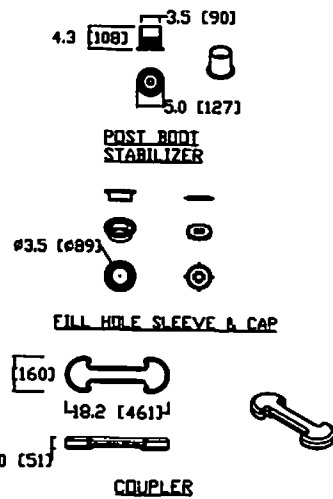
ISOMETRIC VIEW



ELEVATION VIEW



SECTION A-A



NOTES:

- 1) The Yodock Metropolitan Barricade is a recyclable, portable energy disbursement cell used to assist in the prevention of vehicular penetration of a work zone or gore area, as well as providing clear delineation for traffic channelization and pedestrian safety. When installed as a longitudinal channelizer, the units can be interlocked end-to-end, at bottom, with female-to-male indentations, and at top, with locking coupling device and ballasted. Warning flags, steady burning lights, or flashing lights can be securely mounted to each unit. When used as a barrier wall, the system must be accessorized with the Yodock 350 Barrier Wall Kit.
- 2) The Metropolitan is made using blow molding to ensure watertightness and integrity. The unit is manufactured with internally molded baffles in order to maintain its shape, be properly sealed and leakproof. The unit is provided with drain plugs and underside grooves to allow for flow of surface drainage. The unit is joined by a unique coupling device that aids in the prevention of separation of the individual portable energy disbursement cell units during impact. The unit has ports designed to allow for ground mounting and forklift holes for ease of mobility when filled.
- 3) The materials used are a recyclable polyethylene, blow molded to a nominal thickness of 1/16" [2 mm].
- 4) The standard colors of the cells are opaque ivory and orange. Other colors may be introduced as required by project specifications.
- 5) The nominal empty weight of each unit is 80 lbs [36 kg] and up to approximately 900 lbs [408 kg] when water filled.
- 6) Light box recesses accommodate a standard barricade light & bolt.
- 7) Fill hole & drain hole cap use a standard 2" [50mm] bung wrench.

Contact manufacturer for details and specifications of components when not indicated on this drawing.

All dimensions are nominal, and subject to manufacturing tolerances.



YODOCK

900 Patterson Drive
 Bloomsburg, PA 17815
 1-888-4-YODOCK
 www.yodock.com

CONTRACTOR:

PROJECT:

SCALE:

DATE: 07/27/09

REVISED:

CHECKED:

DRAWN: CGH

METROPOLITAN BARRICADE

32" TALL BARRICADE

1 / 1