

THE PORT AUTHORITY OF NY & NJ

Traffic Standard Details

TD100

Channelizing Devices

No.	Date	Revision	Approved
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DEPUTY DIRECTOR – DESIGN _____ DATE _____

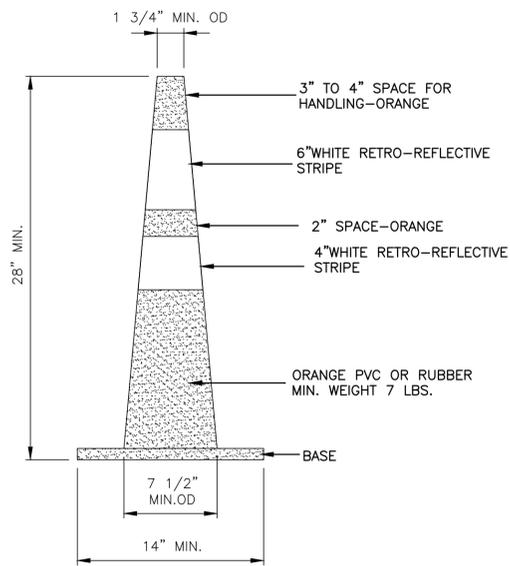
PROGRAM DIRECTOR _____ DATE _____

CHIEF ENGINEER _____ DATE _____

Drawing Number **TD100.00**
PID#

**THE PORT AUTHORITY
OF NY & NJ**

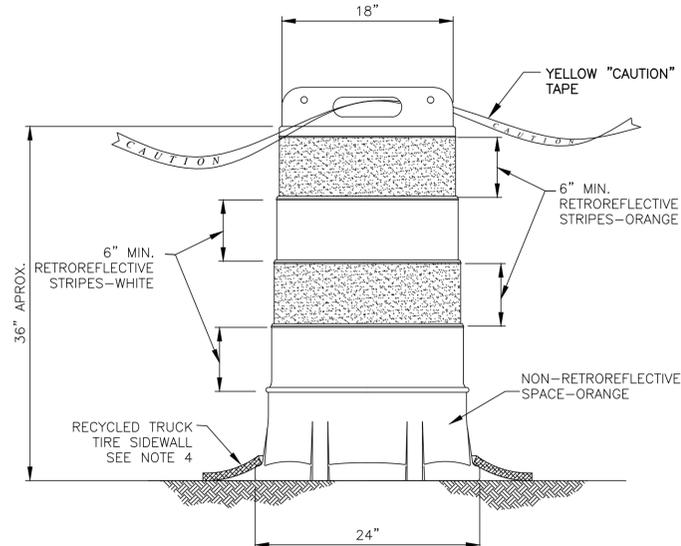
CHIEF



CONES

- NOTES:**
1. BASES MAY BE OF BREAKAWAY BALLASTED TYPE.
 2. ORANGE AND RETROREFLECTIVE WHITE STRIPES SHALL BE 3M CO. FLEXIBLE HIGH INTENSITY GRADE SHEETING SERIES #3910 "SCOTCH-LITE" OR APPROVED EQUAL.
 3. MINOR MANUFACTURER'S VARIATIONS MAY BE ACCEPTABLE UPON APPROVAL OF THE ENGINEER.

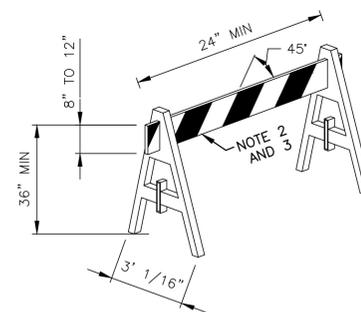
CONE
N.T.S.



DRUM
N.T.S.

NOTES:

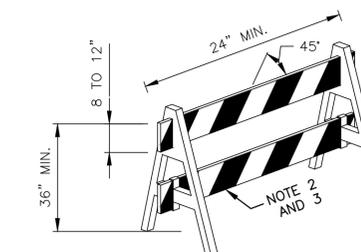
1. THE TOP OF THE DRUM SHALL NOT BE OPEN. DRUMS SHALL BE CONSTRUCTED TO PREVENT ROLLING IF KNOCKED OVER. DRUMS SHALL BE MOLDED WITH INTEGRAL TOP-MOUNTED LIFTING HANDLE.
2. DRUMS SHALL BE MADE OF ORANGE PLASTIC WITH A MINIMUM OF FOUR ALTERNATE ORANGE AND WHITE RETROREFLECTIVE STRIPES. IF THERE ARE NON-RETROREFLECTIVE SPACES BETWEEN THE STRIPES, THEY SHALL NOT BE MORE THAN 2" WIDE. THE ORANGE AND WHITE RETROREFLECTIVE STRIPES SHALL BE 3M CO. FLEXIBLE HIGH INTENSITY GRADE SHEETING SERIES #3910 'SCOTCH-LITE' OR APPROVED EQUAL.
3. DRUMS SHALL BE ROUND EXCEPT THAT OTHER SHAPES, WHICH PROVIDE THE SAME VISIBILITY AS AN 18" DIAMETER ROUND DRUM REGARDLESS OF ORIENTATION, MAY BE USED IF APPROVED BY THE ENGINEER.
4. ALL DRUMS SHALL BE SECURED WITH RECYCLED TRUCK TIRE SIDEWALLS AS BALLASTS.
5. DRUMS SHALL NOT BE PLACED IN THE ROADWAY WITHOUT ADVANCE WARNING SIGNS.
6. MINOR MANUFACTURER'S VARIATIONS ARE ACCEPTABLE UPON APPROVAL OF THE ENGINEER.



TYPE I BARRICADE
N.T.S.

NOTES:

1. ORANGE AND SILVER (WHITE) STRIPES SHALL BE 3M CO.FLEXIBLE HIGH INTENSITY GRADE SHEETING SERIES #3910 "SCOTCH-LITE" OR APPROVED EQUAL.
2. ALTERNATE ORANGE AND SILVER (WHITE) STRIPES 6" WIDE SLOPING DOWNWARD AT AN ANGLE OF 45 DEGREES IN THE DIRECTION TRAFFIC IS TO PASS.



TYPE II BARRICADE
N.T.S.

NOTES:

1. ORANGE AND SILVER (WHITE) STRIPES SHALL BE 3M CO.FLEXIBLE HIGH INTENSITY GRADE SHEETING SERIES #3910 "SCOTCH-LITE" OR APPROVED EQUAL.
2. ALTERNATE ORANGE AND SILVER (WHITE) STRIPES 6" WIDE SLOPING DOWNWARD AT AN ANGLE OF 45 DEGREES IN THE DIRECTION TRAFFIC IS TO PASS.

No.	Date	Revision	Approved
1	10/20/04	TITLE DESCRIPTION MODIFICATION	

ENGINEERING DEPARTMENT

**PANYNJ
Traffic Standard
Details**

TRAFFIC

Title
MAINTENANCE OF TRAFFIC DEVICES

**TRAFFIC CONES,
PLASTIC DRUMS AND
BARRICADES TYPE I,
II & III**

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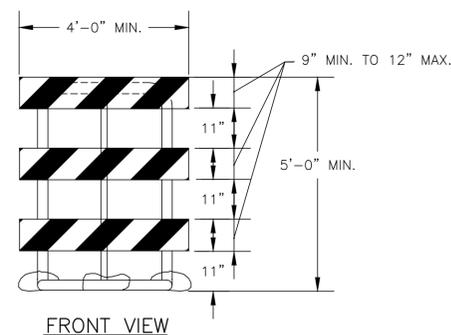
Designed by _____ Drawn by _____ Checked by _____

Date _____ 11/01/2010

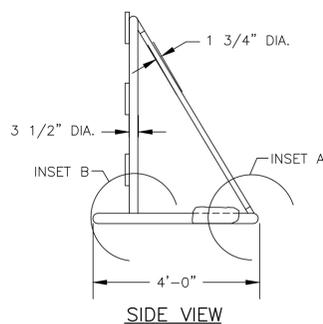
Contract Number _____

Drawing Number **TD100.01**

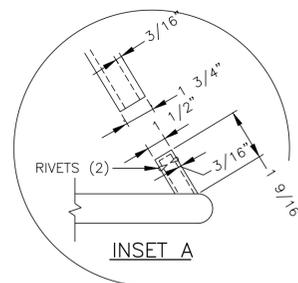
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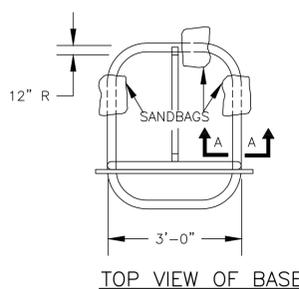
FRONT VIEW



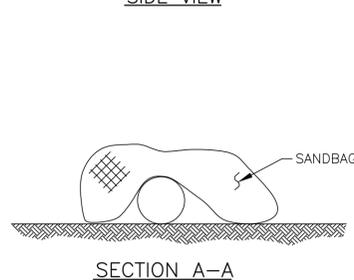
SIDE VIEW



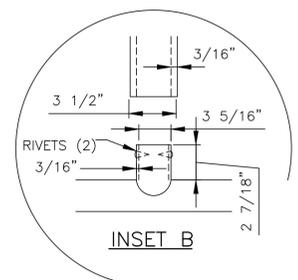
INSET A



TOP VIEW OF BASE



SECTION A-A



INSET B

NOTES:

1. THE 9" MIN. x 48", OR 12" MAX. x 48" BARRICADE RAILS SHALL BE FABRICATED FROM 0.125" MAX. PLASTIC SHEETING AND SHALL BE ATTACHED, 4 PER RAIL, WITH 1" NO. 14 PAN HEAD METAL SCREWS OR PLASTIC RIVETS. ALL CORNERS SHALL BE ROUNDED.
2. ORANGE AND SILVER (OR WHITE) STRIPES SHALL BE RETROREFLECTIVE SHEETING, ASTM D 4956 TYPE III, AS SHOWN FOR CONSTRUCTION SIGNS. ALTERNATE ORANGE AND SILVER (OR WHITE) STRIPES 6" WIDE SLOPING DOWNWARD AT AN ANGLE OF 45° IN THE DIRECTION TRAFFIC IS TO PASS.
3. IF NECESSARY, THE SANDBAGS SHALL BE FABRICATED AND PLACED ACCORDING TO THE MANUFACTURER'S RECOMMENDATION OR AS DIRECTED BY THE ENGINEER.
4. THE BASE AND UPRIGHT SHALL BE 3 1/2" DIA. ROTATIONALLY MOLDED POLYETHYLENE PLASTIC. THE BRACE SHALL BE 1 3/4" EXTRUDED POLYETHYLENE PLASTIC. POLYETHYLENE PLASTIC SHALL BE WHITE AND SHALL BE ULTRAVIOLET LIGHT STABILIZED.
5. RAIL STRIPE WIDTH SHALL BE 6".
6. THE FRAMING FOR THE BARRICADE PANELS SHALL BE NCHRP 350 CRASH TESTED AND FHWA APPROVED.

TYPE III BARRICADE
N.T.S.

CHIEF

No.	Date	Revision	Approved

ENGINEERING DEPARTMENT

PANYNJ
Traffic Standard
Details

TRAFFIC

Title
MAINTENANCE OF TRAFFIC DEVICES

**CURB SYSTEM AND
DELINEATOR
GUIDE POST
DETAILS**

This drawing subject to conditions in contract. All inventions, ideas, designs and methods herein are reserved to Port Authority and may not be used without its written consent. All recipients of Contract documents, including bidders and those who do not bid and their prospective subcontractors and suppliers who may receive all or a part of the Contract documents or copies thereof, shall make every effort to ensure the secure and appropriate disposal of the Contract documents to prevent further disclosure of the information contained in the documents. Secure and appropriate disposal includes methods of document destruction such as shredding or arrangements with release handlers that ensure that third persons will not have access to the documents' contents either before, during, or after disposal. Documents may also be returned for disposal purposes to the Contract Desk on the 3rd Floor, 3 Gateway Center, Newark NJ 07102 or the office of the Director of Procurement, One Madison Avenue, 7th Floor, New York, NY 10010. It is a violation of law for any person to alter a document in any way, unless acting under the direction of a licensed professional engineer or registered architect. If this document bearing the seal of an engineer/architect is altered, the altering engineer/architect shall affix to the document their seal and the notation "altered by" followed by their signature and the date of such alteration, and a specific description of the alteration.

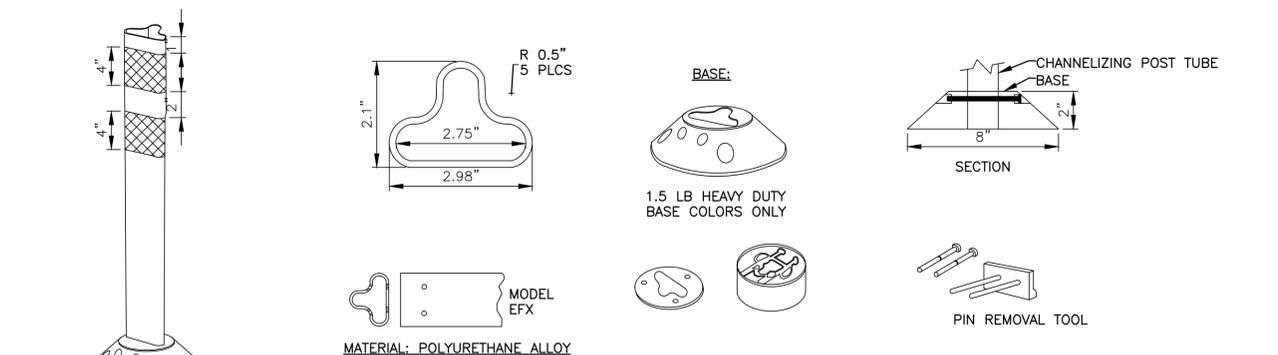
Designed by Drawn by Checked by

Date 11/01/2010

Contract Number

Drawing Number **TD100.02**

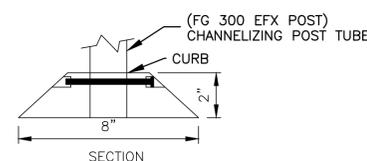
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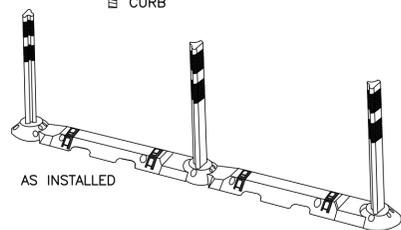
**SURFACE MOUNTED TRAFFIC
CHANNELIZING POST**
N.T.S.

POST COLOR - WHITE OR YELLOW
CURB COLOR - WHITE OR YELLOW
REFLECTIVE SHEETING - 3M HIGH INTENSITY GRADE
(WHITE OR YELLOW)
SHEETING COLOR - WHITE OR YELLOW

SURFACE MOUNTED TRAFFIC
CHANNELIZING POST (SEE DETAIL)



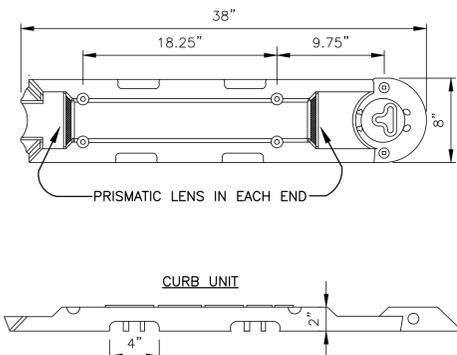
4 OR 6 ANCHOR BOLTS PER
CURB



CHANNELIZING POST CURB SYSTEM
N.T.S.

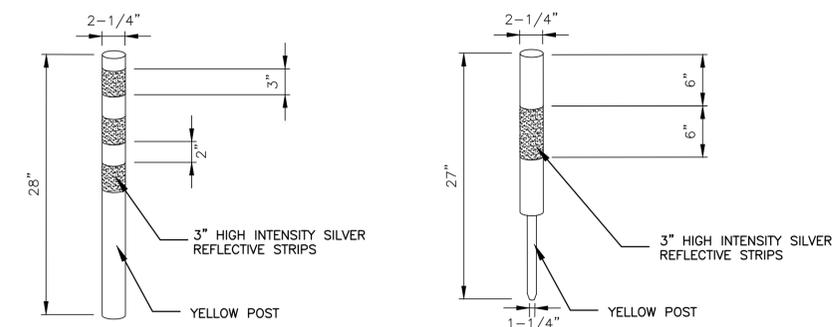
NOTES:

1. FLEXI-GUIDE FG 300 MODEL EFX, CHANNELIZER POST AND CURB SYSTEM SHALL BE MANUFACTURED BY PEXCO, LLC AT 1-877-335-4638, OR APPROVED EQUAL.
2. INSTALLATION SHALL BE COMPLETED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.
3. IF POST IS TO BE USED WITH CURB SYSTEM, THE SPECIFICATIONS FOR THE POST AS DETAILED IN THE NOTES SHALL BE FOLLOWED.
4. POST SHALL BE EFX GRADE WITH 3M HIGH INTENSITY REFLECTIVE SHEETING.
5. CONTRACTOR SHALL PROVIDE SHOP DRAWINGS FOR APPROVAL.



NOTES:

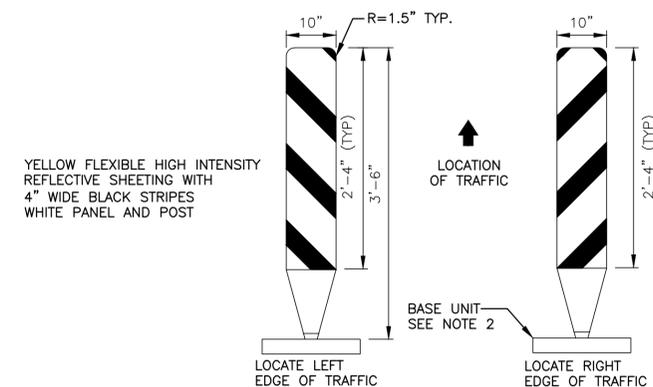
1. INSTALLATION SHALL BE COMPLETED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.
2. CURB SYSTEM SHALL BE USED WITH THE CHANNELIZER POST TYPE (SHOWN ABOVE).
3. REFLECTIVE SHEETING SHALL BE REFLEXITE AR 1000.
4. POST HEIGHT SHALL BE 42".



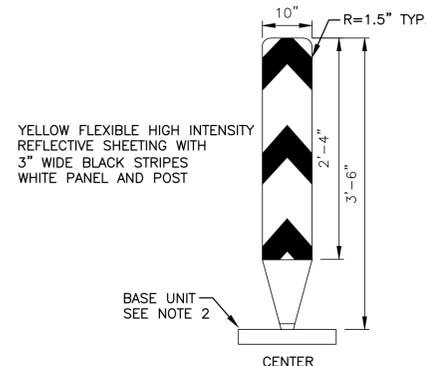
**LINCOLN TUNNEL
EXPRESS BUS LANE - XBL DETAIL**
N.T.S.

NOTES:

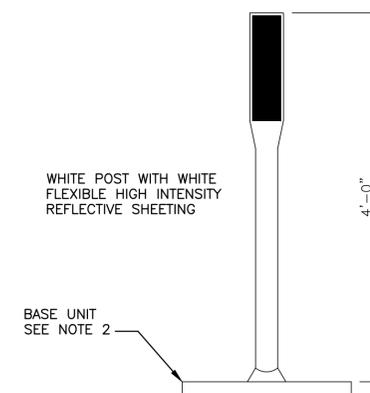
1. ALL SIGN PANELS NECESSARY FOR THE INSTALLATION OF TRAFFIC DELINEATORS SHALL BE MANUFACTURED BY IMPACT RECOVERY SYSTEMS AT (210) 385-0029. NO SUBSTITUTIONS ARE PERMITTED.
2. ALL DELINEATORS SHALL BE MOUNTED ON THEIR RESPECTIVE BASES UTILIZING THE QUICK RELEASE SYSTEM BY IMPACT RECOVERY SYSTEMS. NO SUBSTITUTIONS ARE PERMITTED.



SIGN DETAIL FOR 10"x28" HAZARD MARKER PANELS
N.T.S.



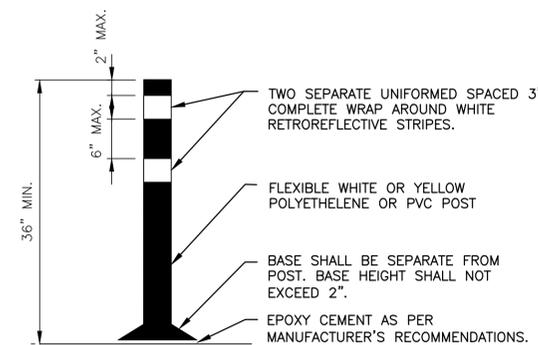
SIGN DETAIL FOR SERGEANT STRIPE PANEL
N.T.S.



DELINEATOR POST DETAIL
N.T.S.

NOTES:

1. POST SHALL BE SO CONSTRUCTED THAT THEY WILL BEND WHEN STRUCK BY A PASSENGER VEHICLE AND SPRING BACK INTO POSITION.
2. AFFIX TRAFFIC GUIDE POSTS TO CLEAN, UNPAINTED ROADWAY SURFACES ONLY, OR AFFIX TO OTHER SURFACES AS SHOWN ON THE CONTRACT DRAWING, USING THE MANUFACTURER'S RECOMMENDED EPOXY ADHESIVE.
3. THE BASE SHALL BE REMOVED FROM THE PAVEMENT WHEN THE POST IS NO LONGER NEEDED.
4. MINOR MANUFACTURERS VARIATIONS MAY BE ACCEPTABLE UPON APPROVAL OF ENGINEER.



TRAFFIC GUIDE POSTS
N.T.S.