

## ORIGINATION FORM

### Proposed Revisions to the Specifications

(Please provide all information - incomplete forms will be returned)

Date:

Specification Section:

Originator:

Articles/Subarticles:

Telephone:

email:

Will the proposed revision involve Design Standard Index changes?      Yes      No

Roadway Design staff contacted (name):

Will the proposed revision involve PPM changes?      Yes      No

Roadway Design staff contacted (name):

Will the proposed revision involve CPAM changes?      Yes      No

Construction staff contacted (name):

Will the proposed revision involve Pay Item changes?      Yes      No

Estimates staff contacted (name):

Will the proposed revision involve SDG changes?      Yes      No

Structures staff contacted (name):

Will the proposed revision involve APL changes?      Yes      No

Product Evaluation staff contacted (name):

Will this revision necessitate any of the following:

Design Bulletin

Construction Bulletin

Estimates Bulletin

Are all references to external publications current?      Yes      No

If not, what references need to be updated (please include changes in the redline)?

Why does the existing language need to be changed?

Summary of the changes:

Are these changes applicable to all Department jobs?      Yes      No

If not, what are the restrictions?

Contact the State Specifications Office for assistance in completing this form.

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## *Florida Department of Transportation*

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### **M E M O R A N D U M**

**DATE:** June 15, 2015

**TO:** Specification Review Distribution List

**FROM:** Daniel Scheer, P.E., State Specifications Engineer

**SUBJECT:** Proposed Specification: **1020302 Maintenance of Traffic.**

In accordance with Specification Development Procedures, we are sending you a copy of a proposed specification change.

This change was proposed by Chris Lewis of the State Construction Office and Gevin McDaniel of the State Roadway Design Office to update the language for current Department practice. Companion revisions are proposed in 1050803 Contractor Quality Control General Requirements and 5210000 Concrete Barriers, Traffic Railing Barriers and Parapets.

Please share this proposal with others within your responsibility. Review comments are due within four weeks and should be sent to Mail Station 75 or online at <http://www2.dot.state.fl.us/ProgramManagement/Development/IndustryReview.aspx>. Comments received after **July 13, 2015**, may not be considered. Your input is encouraged.

DS/dt  
Attachment

## MAINTENANCE OF TRAFFIC.

(REV ~~5-206-2348~~-15)

SUBARTICLE 102-3.2 is deleted and the following substituted:

**102-3.2 Worksite Traffic Supervisor:** Provide a ~~w~~Worksite ~~t~~Traffic ~~s~~Supervisor ~~in~~ ~~accordance with Section 105~~ who is responsible for initiating, installing, and maintaining all temporary traffic control devices as described in this Section and the Contract Documents. ~~with~~Provide all equipment and materials needed to set up, take down, maintain traffic control, and handle traffic-related situations. Use approved alternate Worksite Traffic Supervisors when necessary.

The Worksite Traffic Supervisor must meet the Personnel Qualifications specified in Section 105.

\_\_\_\_\_ The ~~w~~Worksite ~~t~~Traffic ~~s~~Supervisor is to perform the following duties:

\_\_\_\_\_ 1. On site direction of all temporary traffic control on the project.  
\_\_\_\_\_ 2. Is on site during all set up and take down, and performs a drive through inspection immediately after set up.

\_\_\_\_\_ 3. Is on site during all nighttime operations ensuring proper ~~MOT~~temporary traffic control.

\_\_\_\_\_ 4. Immediately corrects all safety deficiencies and corrects minor deficiencies that are not immediate safety hazards within 24 hours.

\_\_\_\_\_ 5. Is available on a 24 hour per day basis and present at the site within 45 minutes after notification of an emergency situation and is prepared to respond to ~~repair the work zone~~maintain temporary traffic control or to provide alternate traffic arrangements.

\_\_\_\_\_ 6. Conducts daily daytime and weekly nighttime inspections of projects with predominately daytime work activities, and daily nighttime and weekly daytime inspections of projects with predominantly nighttime work activities of all traffic control devices, traffic flow, pedestrian, bicyclist, and business accommodations.

\_\_\_\_\_ Advise the project personnel of the schedule of these inspections and give them the opportunity to join in the inspection as ~~is~~ deemed necessary. Pedestrians are to be accommodated with a safe, accessible travel path around work sites separated from mainline traffic in compliance with the Americans with Disabilities Act (ADA) Standards for Transportation Facilities. Maintain existing or detour bicycle facilities satisfactorily throughout the project limits. Existing businesses in work areas are to be provided with adequate entrances for vehicular and pedestrian traffic during business hours.

The Department may disqualify and remove from the project a ~~w~~Worksite ~~t~~Traffic ~~s~~Supervisor who fails to comply with the provisions of this Section. The Department may temporarily suspend all activities, except traffic, erosion control and such other activities that are necessary for project maintenance and safety, for failure to comply with these provisions.

SUBARTICLE 102-5.7 is deleted and the following substituted:

**102-5.7 Flagger:** Provide ~~trained~~ flaggers ~~in accordance with~~ to direct control traffic when traffic in both directions must use a single lane and in other situations as required. All flaggers must meet the Personnel Qualifications specified in Section 105.

SUBARTICLE 102-9.1 is deleted and the following substituted:

**102-9.1 Installation and Maintenance:** Install and maintain temporary traffic control devices as detailed in the Plans, Index 600 of the Design Standards and when applicable, in accordance with the approved vendor drawings, as provided on the Department's Approved Product List (APL). Erect the required temporary traffic control devices to prevent any hazardous conditions and in conjunction with any necessary traffic re-routing to protect the traveling public, workers, and to safeguard the work area. Use only those devices that are on the APL or meeting the requirements of the Design Standards. Immediately remove or cover any devices that do not apply to existing conditions.

All temporary traffic control devices must meet the requirements of National Cooperative Highway Research Program Report 350 (NCHRP 350) or the Manual for Assessing Safety Hardware 2009 (MASH) and current FHWA directives. Manufacturers seeking evaluation must furnish certified test reports showing that their product meets all test requirements set forth by NCHRP 350 or the MASH. Manufacturers seeking evaluation of Category I devices for inclusion on the APL shall include the manufacturer's self-certification letter. Manufacturer's seeking evaluation of Category II and Category III devices for inclusion on the APL shall include the FHWA WZ numbered acceptance letter with attachments and vendor drawings of the device in sufficient detail to enable the Engineer to distinguish between this and similar devices. For devices requiring field assembly or special site preparation, vendor drawings shall include all field assembly details and technical information necessary for proper application and installation. Vendor drawings for Category III devices must be signed and sealed by a Professional Engineer registered in the State of Florida. Manufacturers seeking evaluation of Category IV devices for inclusion on the APL must comply with the requirements of Section 990 and include detailed vendor drawings of the device along with technical information necessary for proper application, field assembly and installation.

The APL number is to be permanently marked on the device at a readily visible location. Sheeting used on devices is exempt from this marking requirement.

Notify the Engineer of any scheduled operation that will affect traffic patterns or safety sufficiently in advance of commencing such operation to permit review of the plan for the proposed installation of temporary traffic control devices.

Assign an employee the responsibility of maintaining the position and condition of all temporary traffic control devices throughout the duration of the Contract. Keep the Engineer advised at all times of the identification and means of contacting this employee on a 24 hour basis.

Maintain temporary traffic control devices in the correct position, properly oriented, clearly visible and clean, at all times. All traffic control devices must meet the classification level of a ~~Acceptable~~ ~~standards~~ ~~as outlined~~ ~~defined~~ in the American Traffic Safety Services Association (ATSSA) Quality Guidelines for Temporary Traffic Control Devices and Features (2008-09 Edition). Immediately repair, replace or clean damaged, defaced or dirty

devices. Traffic control devices shall not be cleaned while installed/used. Use of warning lights on any temporary traffic control device shall be prohibited.

Employ an approved independent Channelizing Device Supplier (CDS) to provide and maintain the condition of the following non-fixed channelizing devices: drums, cones, vertical panels, barricades, tubular markers, and longitudinal channeling devices. Cones may be provided and maintained by the Contractor.

The CDS shall not be affiliated with the Contractor and shall be approved by the Engineer in accordance with 102-9.1.1. The CDS shall submit a monthly certification on letterhead that the channelizing devices mentioned above installed/used within the work zone meet acceptable standards as outlined in ATSSA Quality Guidelines for Temporary Traffic Control Devices and Features. The certification shall include the following statement, "I certify that I have provided and maintained the following devices <list devices covered under the certification> in accordance with the ATSSA Quality Guidelines for Temporary Traffic Control Devices and Features." If the Contractor chooses to provide and maintain cones, the Contractor shall submit a monthly certification on a Department approved form that all cones installed/used within the work zone meet acceptable standards as outlined in ATSSA Quality Guidelines for Temporary Traffic Control Devices and Features, and the CDS shall submit the monthly certification for any other channelizing devices installed/used within the work zone.

#### **102-9.1.1 Approved Independent Channelizing Device Supplier (CDS)**

**Requirements:** Submit the following documents to the Engineer for independent CDS approval at the preconstruction conference. CDSs may elect to provide a one-time submittal of this information for approval and have the information posted on the State Construction Office website for use by Department personnel. Inform the Engineer at the preconstruction conference of this approval.

1. A letter on company letterhead signed and dated by the owner of the company or company officer with the following information and statements:
  - a. The company's owners, stockholders, and officers.
  - b. A statement declaring that the company will not perform as a CDS on any project where there is common ownership, directly or indirectly, between the company and the Contractor.
  - c. A statement declaring that the company will furnish and maintain the condition of all channelizing devices with the exception of cones as required in 102-9.1 with its own forces.
  - d. A statement declaring at least five years of experience in providing channelizing device supplier services, with its own inventory of channelizing devices.
  - e. On a separate sheet, list a sample project history of the company's experience as a channeling device supplier for the five years declared in item 1(d) above including the following information:
    1. Project name and number and a brief description of CDS work performed,
    2. Beginning and ending date of CDS project activities,
    3. Location of project (city, state),
    4. Monetary amount of CDS work on project,
    5. Owner of project, contact person and phone number with area code,

6. Name of Contractor (client) that the work was performed for and phone number with area code,

7. For each project listed, provide written endorsements from the Contractor and owners representative that administered the construction contract.

2. A maintenance plan for approval by the Department that outlines the frequency and methods for maintaining the condition of all channelizing devices, except cones owned and maintained by the Contractor, installed/used in the work zone.

SUBARTICLE 102-9.4 is deleted and the following substituted:

**102-9.4 ~~High Intensity Flashing Lights~~ Project Information Signs: ~~Furnish Type B lights in accordance with the Plans and Design Standards~~ Provide and place signs in accordance with the Plans and Design Standards, Index No. 600 series. Furnish signs having retroreflective sheeting meeting the requirements of Section 990.**

SUBARTICLE 102-9.5.2 is deleted and the following substituted:

**102-9.5.2 Barrier Wall (Temporary):** Furnish, install, maintain, remove and relocate a temporary barrier wall in accordance with the Plans. Obtain and use precast temporary barrier wall from a manufacturing plant that is on the Department's list of Producers of Incidental Precast/Prestressed Concrete Products with an Accepted Quality Control Program at the time of production. Producers seeking inclusion on the list shall meet the requirements of 105-3. Temporary barrier wall must meet the material and construction requirements of Section 521 unless noted otherwise in the Design Standards.

The maximum allowable height increase between consecutive temporary barrier wall units in the direction of traffic is 1 inch.

Temporary concrete barrier wall used on roadway sections must comply with Design Standards, Index Nos. 412, 415 or 414. Temporary concrete barrier wall used on bridge and wall sections, shall comply with Design Standards, Index No 414.

Temporary water filled barrier wall used on roadway sections shall meet the NCHRP Report 350 ~~criteria~~ or ~~the~~ MASH criteria and be listed on the APL.

Barriers meeting the requirements of Design Standards, Index Nos. 412, 415 or temporary water filled barriers on the APL will not be accepted as an alternate to barriers meeting the requirements of Design Standards, Index No. 414.

Trailer mounted barriers listed on the APL may be used at the option of the Contractor. Trailer mounted barriers listed on the APL must have an FHWA eligibility letter and be successfully crash tested in accordance with MASH TL-3 criteria. All trailer mounted barriers must be equipped with an APL listed truck mounted attenuator, an APL listed vehicle mounted arrow board and vehicle warning lights in accordance with this Section.

**102-9.5.2.1 Temporary Barrier Wall Meeting the Requirements of Design Standards, Index Nos. 412 and 414:** Ensure the marking requirements of the respective Index are met.

**102-9.5.2.2: Proprietary Precast Temporary Barrier Wall Fabricated prior to 2005:** The Contractor must submit a certification stating that all unmarked barrier wall

units meet the requirements of the Specifications and the Design Standards. Certifications will be project specific and non-transferable

**102-9.5.2.3 Proprietary Precast Temporary Barrier Wall Fabricated in 2005 or later:** Ensure each wall unit has permanent clear markings, showing the manufacture date, serial number, manufacturer's name or symbol, and the APL number. Label the markings on a plate, plaque, or cast in the unit. Proprietary barrier wall fabricated prior to 2016 and marked with the "INDX 521" in lieu of the APL number will be permitted.

SUBARTICLE 102-9.12 is deleted and the following substituted:

**102-9.12 Temporary Signalization and Maintenance:** Provide temporary signalization and maintenance at existing, temporary, and new intersections including but not limited to the following:

the Plans,

- (1) Installation of temporary poles and span wire assemblies as shown in

- (2) Temporary portable traffic signals as shown in the Plans,

- (3) Adding or shifting signal heads,

- (4) Trouble calls,

- (5) Maintaining intersection and coordination timing and preemption devices. Coordination timing will require maintaining functionality of system communications.

Restore any loss of operation within 12 hours after notification.

Provide traffic signal equipment that meets the requirements of the Design Standards and 603-2. The Engineer may approve used signal equipment if it is in acceptable condition. Replacement components for traffic signal cabinet assemblies will be provided by the maintaining agency.

SUBARTICLE 102-11.3 is deleted and the following substituted:

**102-11.3 Special Detours:** When a diversion or lane shift that requires temporary pavement is shown in the Plans, the work of constructing, maintaining, and subsequently removing such detour facilities will be paid for as a special detour. However, traffic control devices, warning devices, barriers, signing, ~~and~~ pavement markings ~~for special detours, and restoration to final configuration~~ will be paid for ~~separately under their respective pay items~~.

When the Plans show more than one special detour, each special detour will be paid for separately, at the Contract lump sum price for each.

SUBARTICLE 102-11.7 is deleted and the following substituted:

**102-11.7 ~~High Intensity Flashing Lights~~ Project Information Signs:** ~~The number of high intensity flashing lights (Type B) certified as installed/used on the project will be paid for at the Contract unit price for high intensity flashing lights (temporary—Type B) No separate payment will be made for project information signs. Payment will be included under Lump Sum MOT.~~

SUBARTICLE 102-11.8 is deleted and the following substituted:

**102-11.8 Channelizing Devices:** The number of drums, vertical panels, pedestrian LCDs, and Type I, Type II, Type III, or direction indicator barricades, certified as installed/used on the project meeting the requirements of Design Standards, Index No. 600 and have been properly maintained will be paid for at the Contract unit prices for channelizing device. Payment for vehicular LCDs will be paid as the length in feet installed divided by the device spacing for barricades, vertical panels, and drums and certified as installed/used on the project meeting the requirements of Design Standards, Index No. 600 and have been properly maintained will be paid for at the Contract unit price for channelizing device. Payment will not be made for channelizing devices unsatisfactorily maintained, as determined by the Engineer. Payment will be made for each channelizing device that is used to delineate trailer mounted devices. Payment will be made for channelizing devices delineating portable changeable message signs during the period beginning 14 working days before Contract Time begins as authorized by the Engineer. Pedestrian LCDs will be paid at the Contract unit price per foot.

SUBARTICLE 102-13.7 is deleted and the following substituted:

**102-13.7 ~~High Intensity Warning Lights~~ Project Information Signs:** Price and payment will be full compensation for all materials and labor for furnishing, installing, ~~operating,~~ relocating, maintaining and removing high intensity flashing lights (Type B) signs.

SUBARTICLE 102-13.8 is deleted and the following substituted:

**102-13.8 Channelizing Devices:** Prices and payment will be full compensation for furnishing, installing, relocating, maintaining and removing the channelizing devices, including the costs associated with attached warning lights as required.

SUBARTICLE 102-13.23 is deleted and the following substituted:

**102-13.23 Payment Items:** Payment will be made under:

- |                   |  |
|-------------------|--|
| Item No. 102- 1-  | Maintenance of Traffic - lump sum.                             |
| Item No. 102- 2-  | Special Detour - lump sum.                                     |
| Item No. 102- 3-  | Commercial Material for Driveway Maintenance - per cubic yard. |
| Item No. 102- 14- | Traffic Control Officer - per hour.                            |
| Item No. 102- 60- | Work Zone Sign - per each per day.                             |
| Item No. 102- 61- | Business Sign - each.  |
| Item No. 102- 62- | Barrier Mounted Work Zone Sign – per each per day              |
| Item No. 102- 71- | Barrier Wall - per foot.                                       |
| Item No. 102- 75- | Temporary Lane Separator - per foot                            |
| Item No. 102- 94- | Glare Screen - per foot.                                       |

Item No. 102- 73-	Guardrail (Temporary) - per foot.
Item No. 102- 74-	Channelizing Devices - per each per day.
Item No. 102- 76-	Arrow Board - per each per day.
<del>Item No. 102- 77-</del>	<del>High Intensity Flashing Lights (Temporary Type B) - per each per day.</del>
Item No. 102- 78-	Temporary Retroreflective Pavement Markers - each.
Item No. 102- 81-	Crash Cushion (Gating) (Temporary) - per location.
Item No. 102- 89-	Crash Cushion (Redirective) (Temporary) - per location.
Item No. 102- 99-	Portable Changeable Message Sign (Temporary) - per each per day.
Item No. 102-104-	Temporary Signalization and Maintenance - per intersection per day.
Item No. 102-107-	Temporary Traffic Detection and Maintenance - per intersection per day.
Item No. 102-150-	Portable Regulatory Sign - per each per day.
Item No. 102-150-	Radar Speed Display Unit - per each per day.
Item No. 102-909-	Temporary Raised Rumble Strips - per day.
Item No. 102-911-	Removable Tape (White/Black) - per foot.
Item No. 102-912-	Removable Tape (Yellow) - per foot.
Item No. 710-	Painted Pavement Markings.
Item No. 711-	Thermoplastic Pavement Markings.