

Jim McMellon, PE

## STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION

MICHAEL F. EASLEY
GOVERNOR

LYNDO TIPPETT SECRETARY

MEMORANDUM TO:

Roadway Design Project Engineers

Roadway Design Project Design Engineers

Division Design Construction Engineers

FROM:

Jay A. Bennett, P.

State Roadway Design Engineer

SUBJECT:

Bridge Approach Fill Details

(Cored Slab Bridge & Box Beam Bridges - Subregional Tier)

DATE:

July 1, 2008

In accordance with the Subregional Tier Guidelines for Bridge Projects the following guidelines will be followed for approach fill under bridge approach slabs.

A new detail in lieu of standard (442D11) for constructing approach fills under bridge approach slabs has been developed. This detail will be used for subregional tier bridges in the Mountain and Piedmont regions. (An occasional subregional tier project in these regions may still require the use of the current standard drawing for reinforced bridge approach fills (422.10)). All subregional tier Coastal Plain projects will use the current standard for reinforced bridge approach fills (422.10). If you have any questions about which type of approach fill to use, please contact Gichuru Muchane, Structure Design Unit, at 919-250-4048.

There is a new pay item and special provision. The new pay item, Bridge Approach Fill – Sub Regional Tier, Sta. \_\_\_\_ - LS, has been added to the pay item list. The pay item is Lump Sum. Project Services has the special provision ready for inclusion on the appropriate projects.

The use of the detail in lieu of standard (442D11) is effective with the November 18, 2008 letting. Please review and coordinate the Bridge Approach Fill/Reinforced Bridge Approach Fill requirements and pay items with the Structure Design Squad Leaders.

If you have any question regarding this information, please contact Jay A. Bennett, PE at 919-250-4016.

JAB

Attachments

cc: w/attachment

Art McMillan, PE Jon Nance, PE Greg Perfetti, PE Njoroge Wainaina, PE

Ron Allen, PE

Norma Smith Scott Blevins, PE Dewayne Sykes, PE Cynthia Perry, PE Joel Howerton, PE Gichuru Muchane, PE Tom Drda, PE, FHWA Mike Robinson, PE Dan Holderman, PE Randy Garris, PE



## STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATIO

STILLCTURES

ROADWAY DESIGN UNIT

MAY 0 1 2008

**MEMORANDUM TO:** 

MICHAEL F. EASLEY GOVERNOR

Project Engineers

Project Design Engineers

FROM:

G. R. Perfetti, P.E.

State Bridge Design Engineer

DATE:

May 1, 2008

SUBJECT:

Sub-Regional Tier Bridge Approach Slabs and Approach Fills

In accordance with the Sub-Regional Tier Design Guidelines for Bridge Projects the following guidelines shall be used for approach slabs and approach fills for bridges with this functional classification.

Detail 12'-0" (3.66m) approach slabs with stone backfill on plans for sub-regional tier bridges that are in the Mountain and Piedmont regions, i.e. not in the Coastal Plain. For sub-regional tier bridges in the Coastal Plain, detail 12'-0" (3.66m) approach slabs with standard reinforced bridge The Coastal Plain is defined in Section 1018-2(B) of the 2006 Standard approach fills. Specifications.

A new standard drawing, showing the stone backfill under the approach slab, is available for use in developing plans.

BAS 13 -- Bridge Approach Slab for Prestressed Concrete Cored Slab Unit (Sub-Regional

The standard drawing is available via the network drive and Structure Design's web site. The Design Manual will be revised at a later date.

This policy is effective with the November 2008 letting.

## GRP/GM

T. K. Koch, P.E. cc:

A. Raynor, P.E.

E. C. Powell, Jr., P.E., Attn: M.S. Robinson, P.E.

D. Holderman, P.E.

J. A. Bennett, P.E.

N. Wainaina, P.E.

R. D. Rochelle, P.E.

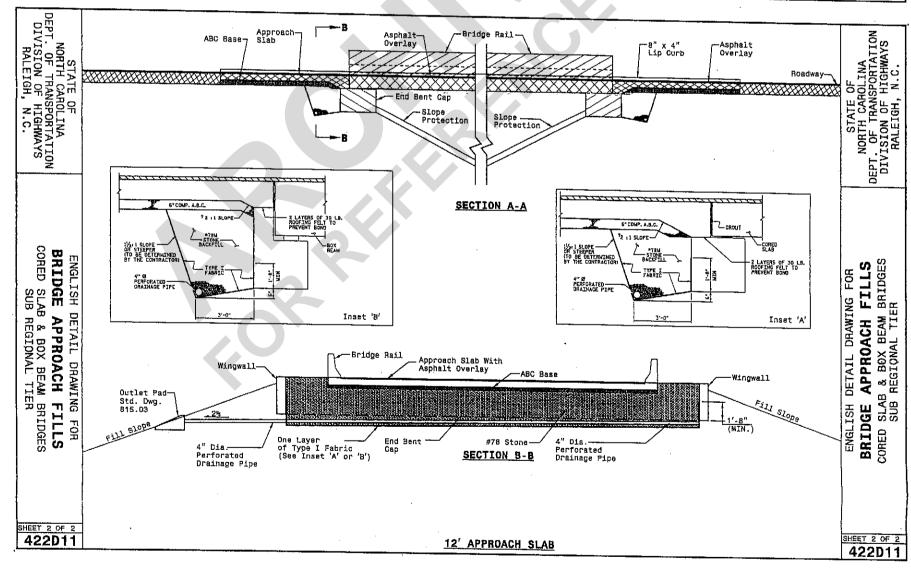
T. S. Drda, P.E., FHWA

TELEPHONE: 919-250-4037 FAX: 919-250-4082

WEBSITE: WWW.DOH.DOT.STATE.NC.US

LOCATION: CENTURY CENTER COMPLEX BUILDING A

STATE OF
NORTH CAROLINA
DEPT. OF THANSPORTATION
DIVISION OF HIGHWAYS
RALEIGH, N.C. REINFORCED BRIDGE APPROACH FILLS
CORED SLAB & BOX BEAM BRIDGES
SUB REGIONAL TIER Drain CORED BRIDGE APPROACH FILLS
CORED SLAB & BOX BEAM BRIDGES
SUB REGIONAL TIER ←Bridge Deck ENGLISH FOR ENGLISH DETAIL DRAWING \Bridge \Skew \Angle DETAIL DRAWING FOR Approach Slab Approach Slab. Bridge Deck End Bent Bridge Rail Asphalt Paving Asphalt Paving Wingwall-PLAN VIEW 12' APPROACH SLAB SHEET 1 OF 2 422D11 SHEET 1 OF 2 422D11 Approach-Slab Asphalt-Overlay ABC Base-7 8" x 4" Lip Curb Roadway



BRIDGE APPROACH FILLS
CORED SLAB & BOX BEAM BRIDGES
SUB REGIONAL TIER PROJECT SERVICES UNIT STANDARDS AND SPECIAL DESIGN Office 918-250-4128 FAX 919-250-4119