ROADWAY BULLETIN NCDOT CONSTRUCTION UNIT



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2024 CHANGES TO PORTABLE CONCRETE BARRIER

Section 1170 of the 2024 Standard Drawings now shows MASH crash tested and PCB (F Shaped K-Wall). An easy way to tell if your barrier is the MASH approved K-Wall is it will include 3 blockouts for anchorage.

K-WALL WITH 3 BLOCKOUTS (ON BOTH SIDES)



It is important to note, when it is an unanchored run of PCB, the new K-Wall barrier requires it's last 4 sections to follow an anchoring sequence before terminating at a temporary crash cushion. This is detailed in Standard 1170.01 Sheet 5, as shown below. This anchorage is incidental to the barrier and will be noted in a Special Provision included with contracts with PCB.

PCB that already was required to be anchored should be fully anchored as required by the plans and standards and will be paid as anchored barrier.

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- 1. 2024 Changes to PCB
- 2. Note to REs: Prime **Coat on Temporary Pavement**
- 3. Updated M&T 903

Want to read previous Construction Bulletins?

Click Here

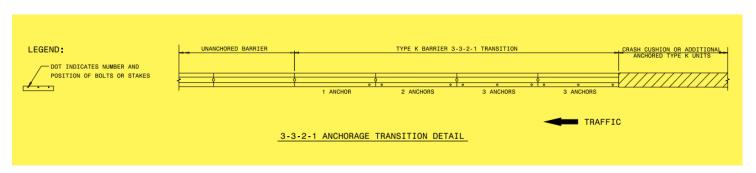
Have suggestions for future Construction Bulletins?

Email:

NOTE IN PORTABLE CONCRETE BARRIER SP (12/17/24)

As shown in the Roadway Standard Drawings, No. 1170.01, anchorage transition sections between Portable Concrete Barrier and Temporary Crash Cushions as found in Section 1160 will be measured and paid as Portable Concrete Barrier. No additional payment will be made for equipment, materials or labor to meet the anchorage transition requirements.

DETAIL SHOWN IN STANDARD 1170.01 SHEET 5

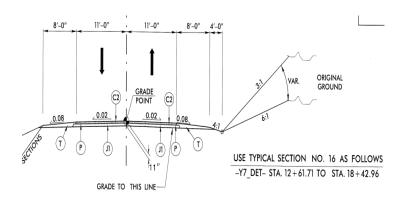


NOTE TO RESIDENT ENGINEERS: PRIME COAT ON TEMPORARY PAVEMENT

Prime coat is used as part of the NCDOT design for payment structures with aggregate base course and a surface course. It's main purpose is to separate moisture between the stone and asphalt layer. However, it can be a challenging process to properly place and cure. It can take over a day after placement to break, and a tack truck has to be changed out and loaded with the prime material. If not given enough time to break, it can be come off on trucks and equipment placing asphalt and end up all over nearby roads and vehicles (trust me).

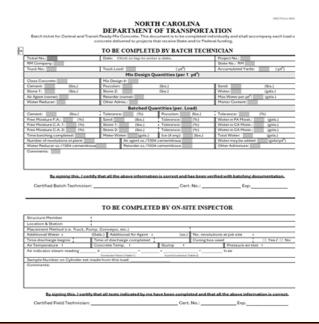
Due to these challenges, and the observed lack of need for prime coat on short term temporary pavement structures, the NCDOT is working to inform our design engineers that temporary pavement in place less than 6 months does not need it.

If you have plans where prime coat is called for that meets these conditions, please contact your Division Construction Engineer and your Area Construction Engineer to follow through on the recommendation to delete it from the pavement structure.



UPDATED M&T 903 FORM COMING IN 2025!

Be on the lookout for an updated 903 form coming to your projects as soon as January. The form reorders how information is presented and should make it easier for inspectors to determine if water can still be added and how much. More information and details are available through the Materials and Tests Unit. A copy of the memo can be found here.



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