MINUTES
OF
IOWA DOT SPECIFICATION COMMITTEE MEETING

April 12, 2018

Members Present:	Darwin Bishop	District 3 - Construction
	Donna Buchwald	Office of Local Systems
	Jeff Devries	District 1 - Materials
	Mark Dunn	Office of Contracts
	Daniel Harness	Office of Design
	Eric Johnsen, Secretary	Specifications Section
	Wes Musgrove	Office of Construction & Materials
	Gary Novey	Office of Bridges & Structures
	Tom Reis, Chair	Specifications Section
	Willy Sorensen	Office of Traffic & Safety
Members Not Present:	Mark Brandl	District 6 - Davenport RCE
	Charlie Purcell	Project Delivery Bureau
Advisory Members Present:	Ken Brink	Office of Location & Environment
	Lisa McDaniel	FHWA
Others Present:	Matt Herman	Specifications Section

The Specification Committee met on Thursday, February 8, 2018, at 9:00 a.m. in the NW Wing, 1st Floor Conference Room. Tom Reis, Specifications Engineer, opened the meeting. The items were discussed in accordance with the agenda dated April 2, 2018:

The minutes are as follows:

1. Article 1107.06, B, Buy America.

The Specifications Section requested to remove Buy America from Local Systems projects.

2. Article 1113.01, General (Electronic Document Storage).

The Office of Local Systems requested to require Doc Express for Local Systems projects.

3. Section 2506, Flowable Mortar.

The Office of Construction and Materials requested to allow foamed cellular concrete to be substituted for flowable mortar.

4. Article 2528.03, M, Limitations (Traffic Control).

The Office of Construction and Materials requested to prohibit shifting a single lane of traffic from one lane to another within a single traffic control zone.

5. Article 2602.01, D, Water Pollution Control Quality Control.

The Office of Construction and Materials requested to add requirements from EPA administrative order on consent, add Permix (stormwater site inspection software), and require submittal of amended site map for installed controls.

6. Articles 2602.04, Method of Measurement, and 2602.05, A, Basis of Payment.

The Office of Design requested to add method of measurement and basis of payment for several items.

7. Article 4151.03, E, 1, Stainless Steel Reinforcement.

The Office of Construction and Materials requested to eliminate the use of one type of stainless steel reinforcement.

8. New Products Review.

The Office of Construction & Materials and Specifications Section requested review of the new Products Evaluation Committee Policy.

The Office of Traffic and Safety indicated that they had worked with the Office of Strategic Communications to move permitting and other processes onto the web. The Specifications Section will see if this could be used as the basis of the new products submittals on the web.

Many members had resistance to using Yammer as a collaboration tool for the New Products Evaluation Committee as they do not have experience with it.

Form 510130 (08-15)

SPECIFICATION REVISION SUBMITTAL FORM

Submitted by: Tom Reis / Eric Johnsen	**Office:** Specifications Section	**Item 1**
Submittal Date: 10/25/17	**Proposed Effective Date:** 10/16/2018	
Article No.: 1107.06, B **Title:** Buy America	**Other:**	

Specification Committee Action: Approved as recommended.

Deferred:	**Not Approved:**	**Approved Date:** 4/12/2018	**Effective Date:** 10/16/2018

Specification Committee Approved Text: See Special Provisions Recommended Text.

Comments: The FHWA commented that there will be two sets of standards for steel and iron products. The Department stated that they will maintain MAPLE with only products approved for use on Federal aid and Department contracts. Many of the manufacturers may also produce items that are not compliant with Buy America, but that will be up to the Engineer to approve.

Specification Section Recommended Text:

1107.06, B, Buy America.

Replace the Article:

~~Per Materials I.M. 107~~ On Federal aid contracts and contracts where the Department is the Contracting Authority, all products of iron, steel, or a coating of steel which are incorporated into the work shall be of domestic origin and shall be melted and manufactured in the United States, according to Materials I.M. 107. The Engineer may allow minimal amounts of these materials from foreign sources, provided the cost does not exceed 0.1% of the contract sum or $2,500, whichever is greater. This amount shall include transportation, assembly, and testing as delivered cost of foreign products to the project.

Comments: The following comments are from the November 9, 2017 Specification Committee meeting:

This item is not ready to be incorporated as the Local Systems swap had not been fully approved yet and won't take effect until October 2018.

The language may need to be clarified to cover other state agencies and clarification when consultants inspect projects for the Department.

Concerns were expressed with how to deal with the approved products lists in MAPLE for SWAP projects.

Member's Requested Change: **(Do not use 'Track Changes', or 'Mark-Up'. Use ~~Strikeout~~ and Highlight.)**

Reason for Revision: To remove Buy America provisions from Local Systems projects which will no longer have federal aid.

New Bid Item Required (X one)	**Yes**	**No** X
Bid Item Modification Required (X one)	**Yes**	**No** X
Bid Item Obsoletion Required (X one)	**Yes**	**No** X

Comments:

County or City Comments:

Industry Comments:

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IOWA DOT

SPECIFICATION REVISION SUBMITTAL FORM

Submitted by: Donna Buchwald	**Office:** Local Systems	**Item 2**
Submittal Date: 2018.03.06	**Proposed Effective Date:** 2018.07.17	
Article No.: 1113.01 **Title:** General (Electronic Document Storage)	**Other:**	

Specification Committee Action: Approved as recommended.

Deferred:	**Not Approved:**	**Approved Date:** 4/12/2018	**Effective Date:** 7/17/2018

Specification Committee Approved Text: See Specification Section Recommended Text.

Comments: A proposal note will be added to incorporate this change effective with the July 17, 2018 letting.

Specification Section Recommended Text:

1113.01, General.

Replace the first paragraph:

Electronic Document Management shall be used for electronic document storage on contracts ~~where~~ let through the Department ~~is the Contracting Authority~~. ~~This requirement may be used on other contacts when specified in the contract documents.~~

Comments: A proposal note will be needed for local systems projects in the July, August, and September lettings.

Member's Requested Change: **(Do not use 'Track Changes', or 'Mark-Up'. Use ~~Strikeout~~ and Highlight.)**

1113.01 GENERAL.

Electronic Document Management shall be used for electronic document storage on contracts ~~where~~ let through the Department ~~is the Contracting Authority. This requirement may be used on other contacts when specified in the contract documents~~.

Reason for Revision: Doc Express will be required on all city and county contracts let through the DOT effective with the July 2018 letting.

New Bid Item Required (X one)	**Yes**	**No** X
Bid Item Modification Required (X one)	**Yes**	**No** X
Bid Item Obsoletion Required (X one)	**Yes**	**No** X

Comments:

County or City Comments: Some agencies are supportive, some are not. We have been in the process of implementing for over two years.

Industry Comments: The industry requested that the cities and counties use Doc Express approximately three years ago.

Form 510130 (08-15)

SPECIFICATION REVISION SUBMITTAL FORM

Submitted by: Wes Musgrove/Todd Hanson	**Office:** Construction & Materials	**Item 3**
Submittal Date: March 26, 2018	**Proposed Effective Date:** October 2018	
Section No.: 2506 **Title:** Flowable Mortar	**Other:**	

Specification Committee Action: This item was deferred to the May meeting.

Deferred: X	**Not Approved:**	**Approved Date:**	**Effective Date:**

Specification Committee Approved Text:

Comments: There was some question whether the use of foamed cellular concrete was completely at the option of the Contractor or needed approval of the Engineer. The revisions will be reviewed for next meeting.

The District 1 Materials Office asked if the foam for the foamed cellular concrete is preformed or created on site. The revisions seem to indicate both. This will be reviewed for next meeting.

The Committee discussed whether the bid item should remain the same or be renamed to include both products. The feeling was that the bid item should remain the same, but it should be clear that use of foamed cellular concrete is completely the Contractor's option, with no prior approval needed.

The Office of Construction and Materials requested to remove the 60 inch pipe limitation from Article 2506.03, E, 2, b. Multiple lifts will be per the pipe manufacturer's recommendations, no matter the size of the pipe.

Specification Section Recommended Text:

2506, Flowable Mortar.

Replace the title and Article:

See attached.

Comments:

Member's Requested Change: (**Do not use 'Track Changes', or 'Mark-Up'. Use ~~Strikeout~~ and Highlight.**)

See attached Section 2506

Reason for Revision: Foamed cellular concrete has been requested as an alternative to flowable mortar. Last year fly ash was in short supply and some ready mix producers were unable to supply flowable mortar. Foamed cellular concrete can be produced with 100% Portland cement. Foamed cellular concrete fill can be pumped and does not need to drain like flowable mortar. Placement can be done in one application, where many times flowable needs to be placed in multiple applications after it has drained.

New Bid Item Required (X one)	**Yes**	**No** X
Bid Item Modification Required (X one)	**Yes**	**No** X
Bid Item Obsoletion Required (X one)	**Yes**	**No** X

Comments:

County or City Comments:

Industry Comments:

Section 2506. Flowable Mortar and Foamed Cellular Concrete

2506.01 DESCRIPTION.
Place a flowable mortar fill material. Uses include, but are not limited to, placement under existing bridges, around or within box culverts or culvert pipes, in open trenches, or at other locations as shown in the contract documents. Foamed cellular concrete may be used as an alternative to flowable mortar.

2506.02 MATERIALS.
Meet the requirements for the respective items in Division 41 with the following exceptions:

A. Cement.
Meet the requirements of Section 4101.

B. Fly Ash.
Meet the requirements of Section 4108. Use fly ash from a source approved by the Engineer.

C. Fine Aggregate.

1. Use natural sand consisting of mineral aggregate particles or foundry sand from the castings of ferrous material. Use the gradation shown in Table 2506.02-1:

Table 2506.02-1: Fine Aggregate Gradation

Sieve Size	Percent Passing
3/8 inch	100
No. 200	0-10

2. It is intended that the sand be a fine sand that will stay in suspension in the mortar to the extent required for proper flow. For the Contractor's information, a well graded sand in the gradation range shown in Table 2506.02-2 has generally shown good flow characteristics when using the normal amount of fly ash (300 pounds per cubic yard). Concrete sand may require a higher amount of fly ash (400 pounds per cubic yard) and air entrainment to produce the desired flowability.

Table 2506.02-2: Informational Gradation Limits

Sieve Size	Percent Passing
3/8 inch	100
No. 8	80-100
No. 16	60-100
No. 30	45-80
No. 50	12-40
No. 100	1.5-25
No. 200	0-5

3. If foundry sand is used, ensure it meets the requirements of IAC 567 Section 108. Ensure suppliers of foundry sand submit a processing plan to the District Materials Engineer for review and approval.

D. Admixtures.

1. Air entraining and water reducing admixtures may be added to increase the fluidity of flowable mortar.

2. Use preformed foam meeting the requirements of ASTM C 869 for foamed cellular concrete when tested in accordance with ASTM C 796.

E. Mix Design.

1. Flowable Mortar.

~~1~~ a. For non critical fluidity, use the basic proportioning for flowable mortar shown in Table 2506.02-3:

Table 2506.02-3: Quantities of Dry Materials Per Cubic Yard for Non-Critical Fluidity

Cement	100 pounds
Fly Ash	300 pounds
Fine Aggregate	2600 pounds

Previous or alternate mix designs may be approved by the District Materials Engineer.

~~2~~ b. For critical fluidity, use the basic proportioning as shown in Table 2506.02-4.

Table 2506.02-4: Quantities of Dry Materials Per Cubic Yard for Critical Fluidity

Cement	100 pounds
Fly Ash	400 pounds
Fine Aggregate	2600 pounds

~~a.~~1) Provide Engineer with mix proportions meeting requirements in Article 2506.02, F. Do not exceed 100 pounds of cement per cubic yard and a total amount of cementitious material of 500 pounds per cubic yard.

~~b.~~2) When the design includes air entraining and water reducing admixtures, Engineer may approve the design without laboratory testing. Engineer may require representative materials for evaluation before approval. When required, one week before work begins, submit samples of fine aggregate, cement, and fly ash intended for use to the Engineer.

~~c.~~3) Previous mix designs for critical flow may be approved by the District Materials Engineer. These mixes may also be used for non critical flow.

~~3~~ c. These quantities of dry materials, with approximately 70 gallons of water (mixes utilizing foundry sand may require more water), will yield approximately 1 cubic yard of flowable mortar of the proper consistency. The quantity of water used for the trial mix or at the project may require adjustment to achieve proper solids suspension and optimum flowability.

~~4~~ d. For information, volume loss during the cure period resulting from surface evaporation, moisture migration away from the flowable mortar unit, and hydration have been observed to be less than 4% of the original volume determined in the fluid condition. In mixes utilizing foundry sand, additional fly ash may be required and the limit of total cementitious material will not apply.

2. Foamed Cellular Concrete.

a. Use foamed cellular concrete with a minimum compressive strength of 100 psi.

b. Use high density cellular concrete with a minimum of 70 pounds per cubic foot for placement under existing bridges, applications placed below water table, or in annular pipe space that cannot be dewatered. Fine aggregate may be included.

c. Use low density cellular concrete with a minimum of 30 pounds per cubic foot for applications above water table or if no water is present in annular pipe space.

d. Submit mix design to the DME. Include base cement slurry mix per cubic yard, expansion factor from the foaming agent, and wet density.

F. Fluidity.

1. Measure the fluidity of the flowable mortar using the method described by Materials I.M. 375. Prior to filling the flow cone with flowable mortar, pass the mixture through a 1/4 inch screen.

2. In locations where fluidity is critical, such as inside existing culverts and between the beams under existing bridges, use an efflux time of 10 seconds to 16 seconds. The Engineer will measure prior to placement and at least once every 4 working hours until work is complete.

3. In locations where fluidity is not critical, such as for placement below the beams under existing bridges or for use as backfill material in open trenches, the Engineer will visually monitor. Provide sufficient fluidity to completely fill the space and produce a level surface without manipulation after discharge.

4. Fluidity measurement is not required for foamed cellular concrete.

G. Granular Backfill Material.
For granular backfill material used under flowable mortar, meet the requirements of Section 4133. Granular backfill is not required for foamed cellular concrete.

2506.03 CONSTRUCTION.

A. Proportioning and Mixing Equipment.

1. Use equipment meeting the requirements of Articles 2001.20 and 2001.21. Provide mixers with sufficient mixing capacity to permit the intended placement without interruption.

2. For foamed cellular concrete, use foam generating equipment capable of producing proper volume of foam and injecting foam into truck mixer drum. Alternatively, a mobile batch plant capable of mixing and pumping foamed cellular concrete to within 10% of the design density and a minimum capacity of 1 cubic yard.

B. Flange Filler Material.
When the flowable mortar is to be placed under a bridge, cover the bridge beams with a filler material, as shown in the contract documents, to fill the flange areas in a manner that will minimize intrusion of the mortar into the flange area of the beams. Construction insulation board or any other suitable material may be used.

C. Placement of Mortar under Existing Bridges.

1. First construct the shoulder area as shown in the contract documents, with the drainage system shown. Complete this work in conjunction with pipe placement, if a pipe culvert is required.

2. If a culvert is required, place engineering fabric meeting requirements of Article 4196.01, B, 2 over all joints in the culvert, within the area where flowable mortar is to be placed as backfill material. Place the fabric from the underlying ground line around the culvert, 1 foot on each side of the joint.

3. Discharge flowable mortar from the mixer by any reasonable means into the area to be filled.

4. Bring the mortar fill up uniformly to the elevation of the first stage fill line, if specified. Cease mortar placement for a period of 72 hours.
5. If there is only one stage of flowable mortar, place granular backfill material in the lower part of the fill and around the pipe as specified. Compact the granular backfill material according to Article 2402.03, H, or thoroughly and uniformly wet with water in a quantity of approximately 10% of the granular backfill material. Complete flooding may be required. Regardless of the method of consolidation, wait 72 hours to commence flowable mortar placement.

6. Place the flowable mortar in a sequential operation from side to side and longitudinally. Begin with fill in one shoulder area, then proceed through each hole in the deck adjacent to the shoulder until mortar is expelled from the adjacent longitudinal hole. Place the last fill on the opposite shoulder. Place mortar through holes in the deck using a suitable funnel which can create a 3 foot head during filling.

7. The locations for holes in the deck will normally be shown in the contract documents. When not shown, drill a hole approximately 5 feet from each end of the bridge in each area between bridge beams. Drill additional holes as necessary so the longitudinal spacing does not exceed 20 feet. Limit the size of the holes to that necessary to accommodate filling equipment.

8. When placement of flowable mortar is completed and set, remove the mortar in the holes in the deck and replace with a suitable PCC mixture.

D. Placement of Mortar as Culvert Backfill Material.

1. First construct the shoulder area with suitable soil as shown in the contract documents, with the drainage system shown. Complete this work in conjunction with the pipe placement, if the culvert is a pipe.

2. Place engineering fabric meeting requirements of Article 4196.01, B, 2 over all joints in the culvert, within the area where flowable mortar is to be placed as backfill material. Place the fabric from the underlying ground line around the culvert, 1 foot on each side of the joint.

3. Place granular backfill material meeting requirements of Section 4133 to approximately mid-height of the culvert. Place the backfill simultaneously on both sides of the culvert so that the two fills are kept at approximately the same elevation at all times. Granular backfill material compaction is not necessary.

4. Discharge flowable mortar from the mixer into the remaining area to be filled. Fill simultaneously on both sides of the structure so that the two fills are kept at approximately the same elevation at all times.

5. If the culvert starts to float, cease the filling operation. Apply an external load to the culvert, sufficient to hold it in place, before the filling is continued. As an alternate, the filling may be suspended until the buoyancy effect of the mortar has ceased.

6. Place the flowable mortar to the elevation shown in the contract documents. When not shown, place the mortar as follows:
   a. If the subgrade elevation is not more than 5 feet over the top of the culvert, place mortar to 1 foot below subgrade elevation.
   b. If the subgrade is more than 5 feet over the top of the culvert, place the mortar to an elevation 2 feet over the top of the culvert. Complete the remainder of the backfill operation using soil designated by the Engineer.

E. Annular Space Grouting

1. Flowable Mortar.
Fill all voids between the liner pipe and the host culvert with flowable mortar. Staged grouting is recommended. Ensure that all voids between the liner pipe and host pipe have been filled with flowable mortar by providing 2 feet of head when filling.

2. Foamed Cellular Concrete

a. Construct bulkheads at each end of the pipe. Ensure bulkhead is constructed to withstand pressure of grouting operation.

b. Use grouting pressures to ensure all voids between the liner pipe and host pipe have been filled, but do not collapse or deform the liner pipe by more than 5% of the diameter. Multiple grout lifts may be necessary for 60 inch and larger pipe diameter in accordance with pipe manufacturer's recommendations.

c. Contractor will check wet density at the beginning of the placement and a minimum of once every 2 hours and results will be documented by the Engineer.

d. If grout holes are utilized, insert cylindrical wood plugs, or other approved plugs, until the grout has set. Fill holes with concrete after plugs have been removed.

~~E~~ F. Limitation of Operations.

1. Do not place flowable mortar or foamed cellular concrete on frozen ground.

2. Flowable mortar or foamed cellular concrete batching, mixing, and placing may be started when the temperature is at least 34°F and rising, if weather conditions are favorable. At time of placement, mortar shall have a temperature of at least 40°F. Cease mixing and placing when the temperature is 38°F or less and falling.

3. Complete each filling stage in as continuous an operation as practical.

4. Do not allow flowable mortar or foamed cellular concrete into streams and waterways.

2506.04 METHOD OF MEASUREMENT.

A. The Engineer will compute the volume of Flowable Mortar furnished and placed, from the nominal volume of each batch and a count of batches. The Engineer will estimate and deduct unused mortar; however, deduction will not be made for a partial batch remaining at the completion of the operation. Foamed cellular concrete may be substituted at the Contractor's option at no additional cost to the Contracting Authority.

B. Granular backfill material used in the lower part of the fill area for projects utilizing flowable mortar will be based on the contract document quantity.

C. When the flowable mortar elevation for placing backfill around culverts is shown in the contract documents, payment for Flowable Mortar will be based on the quantity shown in the contract documents.

2506.05 BASIS OF PAYMENT.

A. Payment for Flowable Mortar will be the contract unit price per cubic yard. Foamed cellular concrete may be substituted at the Contractor's option at no additional cost to the Contracting Authority.

B. Payment is full compensation for:

- Placing the flowable mortar or foamed cellular concrete,
- Flange filler material,
- Engineering fabric as required,
- Drilling and filling the bridge deck holes, and
- Furnishing all materials, equipment, and labor necessary to complete the work.

C. Payment for granular backfill material ~~used in the lower part of the fill area~~ will be ~~based on the quantity shown in the contract documents, and this will normally be included in the quantity of other granular backfill material on the project~~ per Article 2402.05, G.

D. Excavation, placing backfill material for construction of the shoulder area, and moisture control if designated necessary for this work, will be paid for separately. These items will be included in the quantities of other similar work on the project. Furnishing and placing the drainage system in the shoulder area will be considered incidental to the payment for Flowable Mortar.

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IOWA DOT

SPECIFICATION REVISION SUBMITTAL FORM

Submitted by: Wes Musgrove / Mark Bortle	**Office:** Construction & Materials	**Item 4**
Submittal Date:	**Proposed Effective Date:**	
Article No.: 2528.03, M **Title:** Traffic Control / Limitations	**Other:**	

Specification Committee Action: This revision was not approved.

Deferred:	**Not Approved:** X	**Approved Date:**	**Effective Date:**

Specification Committee Approved Text:

Comments: The Committee decided that this revision was not necessary, as the scenario does not meet any Standard Road Plan. Guidance will be included in the Construction Manual to indicate that this should not be allowed.

Specification Section Recommended Text:

2528.03, M, Limitations.

Add the Article:

14. Shifting of a single lane of traffic from one lane to another within a single traffic control zone is not allowed, unless specifically stated in the contract documents. Separate individual lane closures at spacings per Article 2528.03, M, 9 are required to shift traffic from one lane to another lane.

Comments:

Member's Requested Change: **(Do not use 'Track Changes', or 'Mark-Up'. Use ~~Strikeout~~ and Highlight.)**

Add a New Article:

2528.03.M.14

Shifting of a single lane of traffic from one lane to another within a single traffic control zone is not allowed, unless specifically stated in the contract documents. Separate individual lane closures at spacings per Article 2528.03.M.9 are required to shift traffic from one lane to another lane.

Reason for Revision: Historically the Department has not allowed this practice. This specification revision is to clarify this intent in the contract documents.

New Bid Item Required (X one)	**Yes**	**No** X
Bid Item Modification Required (X one)	**Yes**	**No** X
Bid Item Obsoletion Required (X one)	**Yes**	**No** X

Comments:

County or City Comments: n/a

Industry Comments: n/a

Form 510130 (08-15)

SPECIFICATION REVISION SUBMITTAL FORM

Submitted by: Wes Musgrove/Melissa Serio	**Office:** Construction & Materials	**Item 5**
Submittal Date: 3/20/18	**Proposed Effective Date:** October 2018 GS	
Article No.: 2602.01, D **Title:** Water Pollution Control Quality Control	**Other:**	

Specification Committee Action: Approved as recommended with minor formatting changes.

Deferred:	**Not Approved:**	**Approved Date:** 4/12/2018	**Effective Date:** 10/16/2018

Specification Committee Approved Text: See Specification Section Recommended Text.

Comments: The Office of Construction and Materials explained the revisions are the result of an agreement with the EPA. Contractors will be required to have more personnel trained so that there is someone trained on site at all times during construction. This responsibility can be subbed out.

Specification Section Recommended Text:

2602.01, D, Water Pollution Control Quality Control.

Replace the Article:

~~**1.** For projects regulated by a NPDES storm water permit, maintain an individual that will be onsite daily during construction activities. This individual shall have completed Iowa DOT Erosion & Sediment Control Basics (ESC Basics) web-based training, which will be valid for 2 years. This individual shall be responsible for coordinating all erosion and sediment control operations. For this daily requirement, the Contractor may subcontract this responsibility.~~

~~**2.** Additional responsibilities of an ESC Basics trained individual that shall not be subcontracted include:~~

- ~~Attend required storm water inspections with the Contracting Authority. However, when the Contractor is not mobilized onsite, the Contractor may delegate this responsibility to a subcontractor.~~
- ~~Prepare required initial Erosion Control Implementation Plan (ECIP) submittal and ECIP updates.~~
- ~~Attend construction progress meetings to discuss erosion and sediment control issues.~~

~~**3.** For projects regulated by a NPDES storm water permit, maintain an Erosion Control Technician (ECT) on staff, even though the erosion and sediment control portion of the contract may be subcontracted. This individual shall be responsible for overall management of Contractor's quality control program for erosion and sediment control. The ECT is required to obtain certification through the Technical Training and Certification Program (TTCP) of the Department.~~

1. For projects regulated by a NPDES storm water permit:

a. Designate a Water Pollution Control Manager (WPCM) from the Contractor prior to initiating any construction activities. The WPCM shall:

1) Complete Iowa DOT Erosion & Sediment Control Basics (ESC Basics) web-based training (which is valid for 2 years) or Erosion Control (ECT) certification (which is valid for 5 years through the Technical Training and Certification Program of the Department);

2) Be authorized by the Contractor and have the authority to supervise all work performed by the Contractor and subcontractors that involves storm water requirements or affects storm water compliance;

3) Be authorized by the Contractor and have the responsibility to order the Contractor's employees and subcontractors to take appropriate corrective action to comply with storm water requirements, including requiring any such person to cease or correct a violation of storm water requirements and to order or recommend such other actions or sanctions as necessary to meet storm water requirements,

4) Be familiar with the Project Pollution Prevention Plan (PPP);
5) Be the point of contact for Contracting Authority regarding storm water compliance;
6) Be responsible for reviewing and signing or delegating review and signing of inspection reports to a trained or certified individual from the Contractor, acknowledging awareness of any deficiencies and ensuring the correction of all deficiencies; and
7) Visit the Project on a frequent basis and in no instance less than once per week during construction activities. When the Contractor is not mobilized onsite, the Contractor may delegate this responsibility to a subcontractor.

b. Maintain an individual that will be onsite daily during construction activities. This individual shall have completed at a minimum ESC Basics training. This individual shall be responsible for coordinating all erosion and sediment control operations. For this daily requirement, the Contractor may subcontract this responsibility.

1) Additional responsibilities of an ESC Basics trained individual that shall not be subcontracted include:

- Attend required storm water inspections with the Contracting Authority. However, when the Contractor is not mobilized onsite, the Contractor may delegate this responsibility to a subcontractor.
- Prepare required initial Erosion Control Implementation Plan (ECIP) submittal and ECIP updates.
- Attend construction progress meetings to discuss erosion and sediment control issues.

2) Contractor's WPCM may fulfill these responsibilities.

c. Maintain an Erosion Control Technician (ECT) on staff, even though the erosion and sediment control portion of the contract may be subcontracted. This individual shall be responsible for overall management of Contractor's quality control program for erosion and sediment control. Contractor's WPCM may fulfill these responsibilities if ECT certified.

2. For projects regulated by a NPDES storm water permit and where the Department is the Contracting Authority, the Department may use Permix, a web-based software application, to record storm water permit compliance information.

a. Project and permit set-up will be performed by the Department.
b. Contractor shall be responsible for:

- Managing its own company users and adding subcontractor companies.
- Uploading Erosion Control Implementation Plan and amended PPP documents.
- Uploading subcontractor co-permittee certifications.
- Reviewing and signing inspection reports (if not already signed in the field).

c. If Permix is not used on a project, the above referenced documents shall be uploaded to or signed in DocExpress per Section 1113.
d. Costs associated with the use of Permix are incidental to Mobilization.

3. For projects regulated by a NPDES storm water permit, submit an amended PPP site map that identifies erosion and sediment control work performed. Submittal is required prior to payment for corresponding erosion and sediment control contract items from Sections 2601 and 2602, but shall be submitted no later than one week after installation of such items. Submittal of amended PPP site map shall be incidental to payment for erosion and sediment control items.

Comments:

Member's Requested Change: (Do not use 'Track Changes', or 'Mark-Up'. Use ~~Strikeout~~ and Highlight.)

2602.01, D

Replace the Article:

1. For projects regulated by a NPDES storm water permit:

a. Designate a Water Pollution Control Manager (WPCM) from the Contractor prior to initiating any construction activities. The WPCM shall:

1) Complete Iowa DOT Erosion & Sediment Control Basics (ESC Basics) web-based training (which is valid for 2 years) or Erosion Control (ECT) certification (which is valid for 5 years through the Technical Training and Certification Program of the Department);
2) Be authorized by the Contractor and have the authority to supervise all work performed by the Contractor and subcontractors that involves storm water

requirements or affects storm water compliance;

3) Be authorized by the Contractor and have the responsibility to order the Contractor's employees and subcontractors to take appropriate corrective action to comply with storm water requirements, including requiring any such person to cease or correct a violation of storm water requirements and to order or recommend such other actions or sanctions as necessary to meet storm water requirements,

4) Be familiar with the Project Pollution Prevention Plan (PPP);

5) Be the point of contact for Contracting Authority regarding storm water compliance;

6) Be responsible for reviewing and signing or delegating review and signing of inspection reports to a trained or certified individual from the Contractor, acknowledging awareness of any deficiencies and ensuring the correction of all deficiencies; and

7) Visit the Project on a frequent basis and in no instance less than once per week during construction activities. When the Contractor is not mobilized onsite, the Contractor may delegate this responsibility to a subcontractor.

b. Maintain an individual that will be onsite daily during construction activities. This individual shall have completed at a minimum ESC Basics training. This individual shall be responsible for coordinating all erosion and sediment control operations. For this daily requirement, the Contractor may subcontract this responsibility.

Additional responsibilities of an ESC Basics trained individual that shall not be subcontracted include:

- Attend required storm water inspections with the Contracting Authority. However, when the Contractor is not mobilized onsite, the Contractor may delegate this responsibility to a subcontractor.
- Prepare required initial Erosion Control Implementation Plan (ECIP) submittal and ECIP updates.
- Attend construction progress meetings to discuss erosion and sediment control issues.

Contractor's WPCM may fulfill these responsibilities.

c. Maintain an Erosion Control Technician (ECT) on staff, even though the erosion and sediment control portion of the contract may be subcontracted. This individual shall be responsible for overall management of Contractor's quality control program for erosion and sediment control.

Contractor's WPCM may fulfill these responsibilities if ECT certified.

2. For projects regulated by a NPDES storm water permit and where the Department is the Contracting Authority, the Department may use Permix, a web-based software application, to record storm water permit compliance information.

Project and permit set-up will be performed by the Department.

Contractor shall be responsible for:

a. Managing its own company users and adding subcontractor companies.
b. Uploading Erosion Control Implementation Plan and amended PPP documents.
c. Uploading subcontractor co-permittee certifications.
d. Reviewing and signing inspection reports (if not already signed in the field).

If Permix is not used on a project, the above referenced documents shall be uploaded to or signed in DocExpress per Specification Section 1113.

Costs associated with the use of Permix are incidental to Mobilization.

3. For projects regulated by a NPDES storm water permit, submit an amended PPP site map that identifies erosion and sediment control work performed. Submittal is required prior to payment for

corresponding erosion and sediment control contract items from Specification Sections 2601 and 2602, but shall be submitted no later than one week after installation of such items. Submittal of amended PPP site map shall be incidental to payment for erosion and sediment control items.

~~**1.** For projects regulated by a NPDES storm water permit, maintain an individual that will be onsite daily during construction activities. This individual shall have completed Iowa DOT Erosion & Sediment Control Basics (ESC Basics) web-based training, which will be valid for 2 years. This individual shall be responsible for coordinating all erosion and sediment control operations. For this daily requirement, the Contractor may subcontract this responsibility.~~

~~**2.** Additional responsibilities of an ESC Basics trained individual that shall not be subcontracted include:~~

- ~~Attend required storm water inspections with the Contracting Authority. However, when the Contractor is not mobilized onsite, the Contractor may delegate this responsibility to a subcontractor.~~
- ~~Prepare required initial Erosion Control Implementation Plan (ECIP) submittal and ECIP updates.~~
- ~~Attend construction progress meetings to discuss erosion and sediment control issues.~~

~~**3.** For projects regulated by a NPDES storm water permit, maintain an Erosion Control Technician (ECT) on staff, even though the erosion and sediment control portion of the contract may be subcontracted. This individual shall be responsible for overall management of Contractor's quality control program for erosion and sediment control. The ECT is required to obtain certification through the Technical Training and Certification Program (TTCP) of the Department.~~

Reason for Revision:

Add requirements from EPA administrative order on consent, add Permix (stormwater site inspection software), and requirement to submit amended site map for installed controls.

New Bid Item Required (X one)	**Yes**	**No** x
Bid Item Modification Required (X one)	**Yes**	**No** x
Bid Item Obsoletion Required (X one)	**Yes**	**No** x

Comments: None

County or City Comments:

Industry Comments:

Form 510130 (08-15)

SPECIFICATION REVISION SUBMITTAL FORM

Submitted by: Mike Kennerly	**Office:** Design	**Item 6**
Submittal Date: 3-26-2018	**Proposed Effective Date:** 10-16-2018	
Article No.: 2602.04; 2602.05, A **Title:** Method of Measurement; Basis of Payment	**Other:**	

Specification Committee Action: Approved as recommended.

Deferred:	**Not Approved:**	**Approved Date:** 4/12/2018	**Effective Date:** 10/16/2018

Specification Committee Approved Text: See Specification Section Recommended Text.

Comments: None.

Specification Section Recommended Text:
2602.04, Method of Measurement.

Add the following Articles:

N. Rock Check Dam.
Linear feet to the nearest 0.1 feet.

O. Maintenance of Rock Check Dam.
By count.

P. Removal of Rock Check Dam.
By count.

Q. Temporary Sediment Control Basin.
By count.

R. Maintenance of Temporary Sediment Control Basin.
By count.

S. Removal of Temporary Sediment Control Basin.
By count.

T. Open-throat Curb Intake Sediment Filter.
Feet to the nearest foot.

U. Maintenance of Open-throat Curb Intake Sediment Filter.
By count.

V. Removal of Open-throat Curb Intake Sediment Filter.
By count.

W. Stabilized Construction Entrance.
Linear feet measured along the length of the entrance at the entrance centerline.

2602.05, A.

Add the following Articles:

11. Rock Check Dam.
Per linear foot. Payment is full compensation for all materials, labor, and equipment required to construct the Rock Check Dam. Class 10 excavation required to cut trench and engineering fabric installed prior to placing revetment are incidental and will not be paid for separately.

12. Maintenance of Rock Check Dam.
Each occurrence. Payment is full compensation for clean out and disposal of material when capacity reaches 50%, and for any repair that is needed during the project.

13. Removal of Rock Check Dam.
Each. Payment is full compensation for all labor and equipment required to remove all rock and material above original ditch grade. Rock, silt, and engineering fabric that is flush with and/or below final ditch grade will be allowed to remain in the excavation trench.

14. Temporary Sediment Control Basin.
Each. Payment is full compensation for furnishing all equipment, labor, and materials required to construct the Temporary Sediment Control Basin as shown.

15. Maintenance of Temporary Sediment Control Basin.
Each occurrence. Payment is full compensation for clean out and disposal of material when capacity reaches 50%, and for any other repair needed during the project.

16. Removal of Temporary Sediment Control Basin.
Each. Payment is full compensation for all labor and equipment required to remove all rock and material above designed ditch grade and to place topsoil. Rock and engineering fabric that is flush with and/or below designed ditch grade will be allowed to remain in place.

17. Open-throat Curb Intake Sediment Filter.
Per foot. Payment is full compensation for furnishing all equipment, labor, and materials required to install the Open-throat Curb Intake Sediment Filter as shown.

18. Maintenance of Open-throat Curb Intake Sediment Filter.
Each occurrence. Payment is full compensation for clean out and disposal of material when sediment accumulation depth reaches 2 inches, and for any other repair needed during the project.

19. Removal of Open-throat Curb Intake Sediment Filter.
Each. Payment is full compensation for all labor and equipment required for removal.

20. Stabilized Construction Entrance.
Per linear foot. Payment is full compensation for furnishing all materials and work necessary for installation, maintenance, and removal of stabilized construction entrance. Maintenance includes installing additional material or cleaning required to maintain the entrance in a functional condition.

Comments:

Member's Requested Change: (Do not use 'Track Changes', or 'Mark-Up'. Use ~~Strikeout~~ and Highlight.)
2602.04, Method of Measurement.

Add the following Articles:

N. Rock Check Dam.

Linear feet to the nearest 0.1 feet.

O. Maintenance of Rock Check Dam.

By count.

P. Removal of Rock Check Dam.

By count.

Q. Temporary Sediment Control Basin.

By count.

R. Maintenance of Temporary Sediment Control Basin.

By count.

S. Removal of Temporary Sediment Control Basin.

By count.

T. Open-throat Curb Intake Sediment Filter.

Feet to the nearest foot.

U. Maintenance of Open-throat Curb Intake Sediment Filter.

By count.

V. Removal of Open-throat Curb Intake Sediment Filter.

By count.

W. Stabilized Construction Entrance.

Linear feet measured along the length of the entrance at the entrance centerline.

2602.05, A.

Add the following Articles:

11. Rock Check Dam.

Per linear foot. Payment is full compensation for all materials, labor, and equipment required to construct the Rock Check Dam. Class 10 excavation required to cut trench and engineering fabric installed prior to placing revetment are incidental and will not be paid for separately.

12. Maintenance of Rock Check Dam.

Each occurrence. Payment is full compensation for clean out and disposal of material when capacity reaches 50%, and for any repair that is needed during the project.

13. Removal of Rock Check Dam.

Each. Payment is full compensation for all labor and equipment required to remove all rock and material above original ditch grade. Rock, silt, and engineering fabric that is flush with and/or below final ditch grade will be allowed to remain in the excavation trench.

14. Temporary Sediment Control Basin.

Each. Payment is full compensation for furnishing all equipment, labor, and materials required to construct the Temporary Sediment Control Basin as shown.

15. Maintenance of Temporary Sediment Control Basin.

Each occurrence. Payment is full compensation for clean out and disposal of material when capacity reaches 50%, and for any other repair needed during the project.

16. Removal of Temporary Sediment Control Basin.

Each. Payment is full compensation for all labor and equipment required to remove all rock and material above designed ditch grade and to place topsoil. Rock and engineering fabric that is flush with and/or below designed ditch grade will be allowed to remain in place.

17. Open-throat Curb Intake Sediment Filter.

Per foot. Payment is full compensation for furnishing all equipment, labor, and materials

required to install the Open-throat Curb Intake Sediment Filter as shown.

18. Maintenance of Open-throat Curb Intake Sediment Filter.

Each occurrence. Payment is full compensation for clean out and disposal of material when sediment accumulation depth reaches 2 inches, and for any other repair needed during the project.

19. Removal of Open-throat Curb Intake Sediment Filter.

Each. Payment is full compensation for all labor and equipment required for removal.

20. Stabilized Construction Entrance.

Per linear foot. Payment is full compensation for furnishing all materials and work necessary for installation, maintenance, and removal of stabilized construction entrance. Maintenance includes installing additional material or cleaning required to maintain the entrance in a functional condition.

Reason for Revision: The proposed language is already on Design Details 570-2, 570-3, 570-6, and 570-10. The Office of Design is converting the above Design Details to Standard Road Plans. We would like place MOM and BOP language in the Standard Specifications.

New Bid Item Required (X one)	**Yes**	**No** X
Bid Item Modification Required (X one)	**Yes**	**No**
Bid Item Obsoletion Required (X one)	**Yes**	**No**
Comments:		
County or City Comments:		
Industry Comments:		

Form 510130 (08-15)

SPECIFICATION REVISION SUBMITTAL FORM

Submitted by: Mahbub Khoda/Wes Musgrove	**Office:** Construction and Materials	**Item 7**
Submittal Date: March 26, 2018	**Proposed Effective Date:** October, 2018	
Article No.: 4151.03, E, 1 **Title:** Steel Reinforcement	**Other:**	

Specification Committee Action: Approved as recommended.

Deferred:	**Not Approved:**	**Approved Date:** 4/12/2018	**Effective Date:** 10/16/2018

Specification Committee Approved Text: See Specification Section Recommended Text.

Comments: None.

Specification Section Recommended Text:

4151.03, E, 1.

Delete the first bullet:

~~**1.** S24100 (XM-28)~~

Comments:

Member's Requested Change: **(Do not use 'Track Changes', or 'Mark-Up'. Use ~~Strikeout~~ and Highlight.)**

4151.03.E. Stainless Steel Reinforcement.

1. Stainless steel reinforcement bars shall be deformed and meet requirements of ASTM A 955 and be one of the following, UNS designation types:

- ~~S24100 (XM-28)~~
- S31653 (316LN)
- S31803
- S32304 (2304)

UNS designations (types) listed in this specification meet the requirements of ASTM A 955. Bars shall be heat treated using one of the three methods listed in ASTM A 955.

Reason for Revision: The corrosion performance of UNS S24100(XM-28) is at the lower end of the SSR corrosion resistant spectrum. OBS has requested to remove UNS S24100 because stainless steel rebar is currently, in general, only used in the most corrosion prone areas (such as the barrier to deck connection, approaching slab and abutment connection, etc.)

New Bid Item Required (X one)	**Yes**	**No** x
Bid Item Modification Required (X one)	**Yes**	**No** x
Bid Item Obsoletion Required (X one)	**Yes**	**No** x

Comments:

County or City Comments: None

Industry Comments: This will not create any availability issue including the Buy America requirements

Forms:

650075 – *On-line application and database for manufacturers and suppliers to submit data for a new product, material or procedure for evaluation. The application will have a public facing page where the status of all reviews will be available.*

Policy and Procedure:

I. Purpose

A. The Specifications Committee is responsible for a thorough and fair evaluation of newly developed products, materials and procedures for potential use in highway construction and maintenance.

B. The Specifications Committee has the authority to accept, reject or determine the status of new products, materials and procedures submitted for Department use.

II. Procedure

A. Department offices that receive new product information directly shall ~~forward~~ direct the vendor to the on-line system.

B. Once a submittal has been made, the Specification Committee members and the responsible office(s) will receive notification ~~as well as the responsible reviewing office(s)~~.

C. The responsible reviewing office(s) will determine if the submittal meets the criteria as a new product. They will notify the Specifications Engineer for items that should go through a different process at the Department. The Specification Engineer will contact the submitter and archive the item in the database. Items that are already covered by a Materials I.M. will be forwarded to the Construction and Materials Office for action.

D. The responsible office(s) will review the submittal for completeness and if further information or clarification of the intent is needed, they will attempt to obtain this information from the contact provided on the submittal.

E. After all the needed information is obtained, the responsible office(s) will review and make one of the following recommendations within 30 days to the Specifications Engineer.

1. Immediate adoption.
2. Referral to the initiator for additional information.
3. Referral to another Department office for evaluation or recommendation.
4. Referral for testing and evaluation by AASHTO Product Evaluation List (APEL).
5. Field trial for further evaluation.
6. Referral to the Strategic Performance Division for formal research and development.

Commented [BS1]: Has this application been developed/up and running? Current forms may need updating. What's happening to the Engineering Specifications Committee/600.02?

Commented [BS2]: This membership is a change from the more diverse membership that included fhwa and other external members – it eliminates check and balances

Commented [BS3]: Here the Specifications Committee is responsible for review but in II E below it seems otherwise? Please advise.

Commented [BS4]: What parties comprise the specifications committee, still include FHWA etc.? Need checks and balances beyond highway staff.

Commented [BS5]: What is the criterion?

Commented [BS6]: Archiving or documenting, is there something else done with the product, I'm not following the archiving statemen, please explain.

Commented [BS7]: Is the responsible office reviewing or the spec committee?

7. Defer until additional performance information is available from lead adoption agencies.
8. Deferral due to current unavailability of technology or equipment.
9. Deferral because the item is not currently cost-effective.
10. Rejection.

F. The Specifications Engineer will update and maintain the status of all items submitted and will forward the recommendations to the Specification Committee for review and approval. After Specification Committee approval, the Specification Engineer will notify the suppliers, manufacturers or persons who submitted the item of the decision of the Specifications Committee. The Specification Engineer will finalize the item record in the database and the record will remain on the public facing web page.

Commented [BS8]: Unless there is a specific intent to use a particular product sub mitted, I'd think the process would start over again