



INDIANA DEPARTMENT OF TRANSPORTATION

Driving Indiana's Economic Growth

100 North Senate Avenue
Room N925
Indianapolis, Indiana 46204

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Mitchell E. Daniels, Jr., Governor
Michael B. Cline, Commissioner

AGENDA

January 19, 2012 Standards Committee Meeting

MEMORANDUM

January 05, 2012

TO: Standards Committee

FROM: Scott Trammell, Secretary

RE: Agenda for the January 19, 2012 Standards Committee Meeting

A Standards Committee meeting is scheduled for 09:00 a.m. on January 19, 2012 in the N955 Bay Window Conference Room. Please enter meeting through the double doors directly in front of the conference room.

The following agenda items are listed for consideration.

A. GENERAL BUSINESS ITEMS

OLD BUSINESS

(No items on this agenda)

NEW BUSINESS

1. Payment for Stockpiled Dowel Bar Assemblies M. Miller

B. CONCEPTUAL PROPOSAL ITEMS

OLD BUSINESS

(No items on this agenda)

NEW BUSINESS

(No items on this agenda)

C. STANDARD SPECIFICATIONS, SPECIAL PROVISIONS AND STANDARD DRAWINGS
PROPOSED ITEMS

OLD BUSINESS

(No items on this agenda)

NEW BUSINESS

<u>Item No. 01 01/19/12 (2012 SS)</u>	Mr. Cales	pg 06
Recurring Special Provision 105-X-XXX	<i>HMA ITEM CONTRACT PRICE EXTENSION TO INDOT MAINTENANCE</i>	
<u>Item No. 02 01/19/12 (2012 SS)</u>	Mr. Pankow	pg 09
Recurring Special Provision 202-X-XXX	<i>REMOVAL OF RCBA AND REINFORCED CONCRETE MOMENT SLABS</i>	
<u>Item No. 03 01/19/12 (2012 SS)</u>	Mr. Pankow	pg 12
Recurring Special Provision 704-X-XXX	<i>PLACING REINFORCEMENT AND CONCRETE</i>	
<u>Item No. 04 01/19/12 (2012 SS)</u>	Mr. Pankow	pg 16
Recurring Special Provision 711-X-XXX	<i>STRUCTURAL STEEL, GENERAL</i>	

cc: Committee Members (11)
FHWA (2)
ICA (1)



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December 5, 2011

CONSTRUCTION MEMORANDUM 11-11

TO: District Deputy Commissioners
District Construction Directors
District Testing Engineers
District Area Engineers
District LPA Coordinators
Field Engineers
Technical Services Directors
Project Engineers/Supervisors
Office of Materials Management

FROM: Mark A. Miller, Director **[SIGNED]**
Division of Construction Management

SUBJECT: Payment for Stockpiled Dowel Bar Assemblies

The 2012 Standard Specifications Section 111.04 allows for payment for stockpiled dowel assemblies if the materials are stockpiled within the project limits or at a storage facility adjacent to the project site and if the remaining requirements of section 111 are met.

Due to the large quantity of PCCP paving that is scheduled with I-69, US 31, SR 25, and other corridors currently under construction, manufacturers of dowel bar assemblies have been forced to fabricate these assemblies well in advance of the paving operation taking place. As a result, it has been necessary for Contractors to acquire the assemblies earlier and in many situations there are no locations within the project limits or storage facilities available for stockpiling adjacent to the project site. Therefore, a recurring special provision has been developed for future contracts that will allow dowel bar assemblies to be stockpiled at an approved location.

In addition, District Construction personnel should consider Contractor requests for proposed stockpile locations at sites other than within the project limits or at storage facilities adjacent to the project regardless of whether or not the contract permits dowel bar assembly stockpiles at an approved location. In situations where the contract does not include approved stockpile location language, this Construction Memo should be attached to the change order that pays for the stockpiled dowel assemblies as authorization for allowing for an approved stockpile location.

When evaluating a Contractor request for an alternate stockpile location, District Construction personnel should consider the following:

- Is the address of the proposed stockpile location included in the request?
- Are there currently other materials for the contract or other contracts being stockpiled at the proposed location? If so, does the Contractor have ability to dedicate a specific location to the proposed dowel basket assembly stockpile that is separate from other stockpiles?
- Does the Contractor request include a contact for facilitating INDOT inspection of the stockpile location?

If the request addresses all of the above issues in a satisfactory manner, District Construction personnel should approve the location and pay for the stockpiled materials in accordance with 111.09 and 111.11.

For active contracts that do not include a special provision that includes language that allows stockpiled dowel basket assemblies at approved locations, District Construction personnel should review Contractor proposals for alternate stockpile locations in the manner described above. This Construction Memo should be attached to the change order that adds the dowel basket assembly stockpiled materials pay item to the contract to authorize stockpiling these materials at locations not authorized by 111.

MAM/jgj

PAYMENT FOR STOCKPILED DOWEL BAR ASSEMBLIES GENERAL BUSINESS ITEM

BACKUP 02. SPECIAL PROVISION 111-R-594 DOWEL BAR ASSEMBLY STOCKPILED
MATERIAL REQUIREMENTS (*issued and in effect 03-01-12*)

111-R-594 DOWEL BAR ASSEMBLY STOCKPILED MATERIAL REQUIREMENTS

(Adopted 12-05-11)

The Standard Specifications are revised as follows:

SECTION 111, BEGIN LINE 40, DELETE AND INSERT AS FOLLOWS:

111.04 Dowel Bar Assemblies

Partial payment made under the requirements herein will be the delivered cost of the dowel bar assemblies stored within the project limits, *or* at a storage facility adjacent to the project site, *or at a location approved by the Engineer*. Basis of payment for the dowel bar assemblies shall be the paid invoices furnished by the Contractor. Prior to authorizing partial payment, verification will be obtained that the dowel bars have been tested and are acceptable.

SPECIFICATIONS, SPECIAL PROVISIONS AND DRAWINGS
REVISION TO SPECIAL PROVISIONS

PROPOSAL TO STANDARDS COMMITTEE

PROBLEM(S) ENCOUNTERED: Maintenance has monthly material bids for hot mix. However, it often happens that unplanned situations develop requiring hot mix, when the plant that has our bid is not making the material we need.

PROPOSED SOLUTION:

Add the attached recurring special provision to the 105 section of the spec book. This would allow maintenance to obtain material bid on a contract at the contract price, with the restrictions spelled out in the provision.

This would allow additional options for maintenance to acquire hot mix.

Proposed Basis for Use: Any 401 or 402 HMA Base, Intermediate, or Surface item.

APPLICABLE STANDARD SPECIFICATIONS: 105

APPLICABLE STANDARD DRAWINGS: N/A

APPLICABLE DESIGN MANUAL SECTION: N/A

APPLICABLE SECTION OF GIFE: Unknown

APPLICABLE RECURRING SPECIAL PROVISIONS: Proposed new RSP 105-R-XXX.

Submitted By: Todd Shields for Bob Cales

Title: Manager, Office of Technical Services

Organization: INDOT

Phone Number: 317-233-4726

Date: October 17, 2011

APPLICABLE SUB-COMMITTEE ENDORSEMENT? Ad hoc (HMA tech committee, FHWA)

REVISION TO SPECIAL PROVISIONS

PROPOSED NEW 105-R-XXX HMA ITEM CONTRACT PRICE EXTENSION TO INDOT MAINTENANCE

105-R-XXX HMA ITEM CONTRACT PRICE EXTENSION TO INDOT MAINTENANCE

(Adopted XX-XX-12)

The Standard Specifications are revised as follows:

SECTION 105, BEGIN LINE 832, INSERT AS FOLLOWS:

105.17 HMA Item Contract Price Extension to INDOT Maintenance

The Contractor shall extend the unit price for all HMA items bid to INDOT Maintenance forces. This price extension shall only apply when the certified HMA plant is producing HMA for this contract, and the HMA is being produced at the time of pickup. INDOT will pick up the material at the hot mix plant utilizing INDOT equipment.

The amount of HMA provided to INDOT Maintenance forces shall be limited to 25 tons per day.

In the event that the plant is producing HMA mixture for multiple INDOT contracts at the same time, the price extension will apply to the lowest price. The Contractor shall weigh and invoice the material separate from this contract, and submit the invoice to the specified INDOT Subdistrict office.

Compliance with this provision shall in no way impact the terms of this contract, and shall not be used as a basis for delays, change orders or cost overruns.

COMMENTS AND ACTION

105-R-XXX HMA ITEM CONTRACT PRICE EXTENSION TO INDOT MAINTENANCE

Motion:	Action:
Second:	<input type="checkbox"/> Passed as Submitted <input type="checkbox"/> Passed as Revised <input type="checkbox"/> Withdrawn
Ayes:	
Nays:	
Standard Specifications Sections affected:	<input type="checkbox"/> 20 Standard Specifications Book <input type="checkbox"/> Revise Pay Items List
Section 105 pg 55.	
Recurring Special Provision affected:	<input type="checkbox"/> Create RSP (No. <u> </u>) Effective <u> </u> Letting RSP Sunset Date: <u> </u>
NONE	
Standard Sheets affected:	<input type="checkbox"/> Revise RSP (No. <u> </u>) Effective <u> </u> Letting RSP Sunset Date: <u> </u>
NONE	
Design Manual Sections affected:	Standard Drawing Effective <u> </u> <input type="checkbox"/> Create RPD (No. <u> </u>) Effective <u> </u> Letting <input type="checkbox"/> Technical Advisory
NONE	
GIFE Sections cross-references:	GIFE Update Req'd? Y <u> </u> N <u> </u> By <u> </u> Addition or <u> </u> Revision
NONE	
	Frequency Manual Update Req'd? Y <u> </u> N <u> </u> By <u> </u> Addition or <u> </u> Revision
	Received FHWA Approval? <u> </u>

SPECIFICATIONS, SPECIAL PROVISIONS AND DRAWINGS
REVISION TO SPECIAL PROVISIONS

PROPOSAL TO STANDARDS COMMITTEE

PROBLEM(S) ENCOUNTERED: There has been confusion and inconsistency regarding method of measurement, basis of payment, and pay items for removal of reinforced concrete bridge approach slabs.

PROPOSED SOLUTION: Incorporate the attached changes into the specification.

APPLICABLE STANDARD SPECIFICATIONS: 101.01 & 202.05

APPLICABLE STANDARD DRAWINGS: None

APPLICABLE DESIGN MANUAL SECTION:

APPLICABLE SECTION OF GIFE: None

APPLICABLE RECURRING SPECIAL PROVISIONS: Create new 202-X-XXX recurring special provision

PAY ITEMS AFFECTED: None

Submitted By: Greg Pankow

Title: State Construction Engineer

Organization: INDOT

Phone Number: 2-5502

Date: December 2, 2011

APPLICABLE SUB-COMMITTEE ENDORSEMENT: Ad hoc committee consisting of: Greg Carleton, Kirk Frederick, and Jim Reilman

REVISIONS TO SPECIAL PROVISIONS

PROPOSED NEW 202-X-XXX REMOVAL OF RCBA AND REINFORCED CONCRETE MOMENT SLABS

202-X-XXX REMOVAL OF RCBA AND REINFORCED CONCRETE MOMENT SLABS

(Adopted XX-XX-12)

The Standards Specifications are revised as follows:

SECTION 101, AFTER LINE 93, INSERT AS FOLLOWS:

RAP recycled asphalt pavement
RCBA *reinforced concrete bridge approaches*
RCRA Resource Conservation and Recovery Act

SECTION 202, BEGIN LINE 200, INSERT AS FOLLOWS:

202.05 Removal of PCCP, Sidewalks, Curbs, etc. ~~RCBA, and Reinforced Concrete Moment Slabs~~

All PCCP, sidewalks, curbs, gutters, etc., and other unreinforced concrete elements designated for removal shall be:

- (a) broken into pieces and used for riprap on the project; or
- (b) broken into pieces, the maximum weight of which shall be 150 lb (68 kg), and incorporated into the work as directed; or
- (c) otherwise disposed of in accordance with 202.02.

RCBA and reinforced concrete moment slabs designated for removal shall be disposed of in accordance with 202.02.

Pavement removal shall consist of the removal and satisfactory disposal of *RCBA, reinforced concrete moment slabs, PCCP, PCC resurface with its base, or the total of any combination of HMA base, intermediate, and surface course of any pavement on a PCC, RCBA, or reinforced concrete moment slab base, including the base*. Pavement removal shall include only the removal and disposal of existing public road, street, and alley pavement as required for the planned construction. Curb removal shall include curb that is separate from the pavement or removed separately. Integral curb that is removed with the adjacent pavement shall be paid for as pavement removal. Prior to performing the work of pavement removal at locations shown on the plans or where directed, cement concrete pavement to be removed shall be cut with a power driven concrete saw along designated lines. Sawing shall be such that any portion of the pavement to remain in place will not be damaged. Any portion that is damaged or removed outside the designated lines shall be replaced with no additional payment. Sawing of pavement to be removed will not be paid for directly, but shall be included in the cost of pavement removal.

COMMENTS AND ACTION

202-X-XXX REMOVAL OF RCBA AND REINFORCED CONCRETE MOMENT SLABS

Motion:	Action:
Second:	<input type="checkbox"/> Passed as Submitted <input type="checkbox"/> Passed as Revised <input type="checkbox"/> Withdrawn
Ayes:	
Nays:	
Standard Specifications Sections affected:	<input type="checkbox"/> 20 Standard Specifications Book <input type="checkbox"/> Revise Pay Items List <input type="checkbox"/> Create RSP (No. ____) Effective ____ Letting RSP Sunset Date: ____
Section 101.01 pg 03; 202.05 pg 126.	
Recurring Special Provision affected:	<input type="checkbox"/> Revise RSP (No. ____) Effective ____ Letting RSP Sunset Date: ____
NONE	
Standard Sheets affected:	<input type="checkbox"/> Create RPD (No. ____) Effective ____ Letting RSP Sunset Date: ____
NONE	
Design Manual Sections affected:	<input type="checkbox"/> Standard Drawing Effective ____ <input type="checkbox"/> Create RPD (No. ____) Effective ____ Letting <input type="checkbox"/> Technical Advisory
NONE	
GIFE Sections cross-references:	<input type="checkbox"/> GIFE Update Req'd.? Y ____ N ____ By ____ Addition or ____ Revision
NONE	
	<input type="checkbox"/> Frequency Manual Update Req'd? Y ____ N ____ By ____ Addition or ____ Revision
	<input type="checkbox"/> Received FHWA Approval? ____

SPECIFICATIONS, SPECIAL PROVISIONS AND DRAWINGS
REVISION TO SPECIAL PROVISIONS

PROPOSAL TO STANDARDS COMMITTEE

PROBLEM(S) ENCOUNTERED: There is confusion regarding finishing machine minimum rate of progress for bridge deck pours.

PROPOSED SOLUTION: Add language to the 704 section to better explain the finishing machine minimum rate of progress for bridge deck pours.

APPLICABLE STANDARD SPECIFICATIONS: 704.04

APPLICABLE STANDARD DRAWINGS: None

APPLICABLE DESIGN MANUAL SECTION: None

APPLICABLE SECTION OF GIFE:

APPLICABLE RECURRING SPECIAL PROVISIONS: create new 704 recurring special provision

PAY ITEMS AFFECTED: None

Submitted By: Greg Pankow

Title: State Construction Engineer

Organization: INDOT

Phone Number: 2-5502

Date: December 5, 2011

APPLICABLE SUB-COMMITTEE ENDORSEMENT:

REVISIONS TO SPECIAL PROVISIONS

PROPOSED NEW 704-X-XXX PLACING REINFORCEMENT AND CONCRETE

704-X-XXX PLACING REINFORCEMENT AND CONCRETE

(Adopted XX-XX-12)

The Standard Specifications are revised as follows:

SECTION 704, BEGIN LINE 32, DELETE AND INSERT AS FOLLOWS:

704.04 Placing Reinforcement and Concrete

Applicable provisions of 703 shall apply to placing reinforcing bars. No concrete shall be placed until the reinforcement is entirely and securely in place and has been inspected and approved. Walkways shall be in accordance with 702.20(a). Placing of reinforcement during placing of concrete will not be permitted without prior written approval. Splices, when permitted, shall be at locations of least tension in the steel.

The concrete deck pour sequence and procedure shall be submitted *a minimum of 14 days prior to the planned deck pour* for approval. ~~The minimum pour rate is that which permits the finishing machine to progress at a rate of at least 25 ft/h (7.6 m/h). If this rate is not achieved, placement of transverse construction joints may be directed. The addition of construction joints shall be performed with no additional payment. Placement of concrete, when once started, shall be continuous between joints. Horizontal joints will not be permitted. The submittal shall include the contract number, the Contractor's name, bridge file number, original pour sequence, proposed pour rate, approved concrete mix design, and driving time from the concrete batching location to the jobsite.~~

If the Contractor proposes to follow the deck pour sequence shown on the plans, the minimum pour rate is that rate which results in the finishing machine progressing at least 25 ft/h along the bridge deck.

If the Contractor proposes to eliminate the transverse construction joints shown in the pour sequence on the plans or to pour the bridge deck in a sequence different from that shown on the plans, a request to revise the pour sequence from that shown on the plans shall be submitted in writing to the Engineer. In addition to the submittal requirements above, these requests shall also include the proposed alternate pour sequence and pour rate. For revised pour sequences, the minimum pour rate will be determined by considering the items listed below.

- (a) *A water-reducing retarding admixture or appropriate admixture system shall be used in the concrete to delay the initial set as required and approved.*
- (b) *Concrete shall be placed for the full width of the structure, unless otherwise approved.*
- (c) *For decks on concrete structural members, the concrete on 2 adjacent spans shall be placed within a period of time which is less than the time for the initial set of the concrete section over the pier common to the 2 spans.*

REVISIONS TO SPECIAL PROVISIONS

PROPOSED NEW 704-X-XXX PLACING REINFORCEMENT AND CONCRETE

For decks on steel structural members, the concrete on 2 adjacent spans shall be placed within a period of time which is less than the time for the initial set of the concrete placed at the beginning of the 2 adjacent spans.

(d) Other project-specific conditions, if applicable.

If, during the pour, the approved pour rate is not achieved, placement of transverse construction joints may be directed. Placement of concrete, when once started, shall be continuous between joints. Horizontal joints will not be permitted.

Floor drains shall be placed in gutters at locations shown on the plans and fastened securely before placing the surrounding concrete. The tops of the floor drains shall be no more than 1/2 in. (13 mm) below the adjacent gutter grade. The drains shall be constructed so drainage water is not discharged against portions of the structure.

Expansion joints shall be constructed as shown on the plans and the material shall be in accordance with 906.01.

~~Transverse construction joints as shown on the plans for the floor slab of prestressed concrete beam structures may be eliminated by written approval under the condition as follows:~~

- ~~(a) A retarding or a water reducing retarding admixture shall be used in the concrete to delay set as required and approved.~~
- ~~(b) Concrete shall be placed for the full width of the structure, unless otherwise approved.~~
- ~~(c) It is determined that the concrete on 2 adjacent spans can be placed within a period of time which is less than the time for the initial set of the concrete section over the pier common to the 2 spans.~~

COMMENTS AND ACTION

704-X-XXX PLACING REINFORCEMENT AND CONCRETE

Motion:	Action:
Second:	<input type="checkbox"/> Passed as Submitted
Ayes:	<input type="checkbox"/> Passed as Revised
Nays:	<input type="checkbox"/> Withdrawn
Standard Specifications Sections affected:	<input type="checkbox"/> 20 Standard Specifications Book
702.05 pg 489; 704.04 pg 520 and 521.	<input type="checkbox"/> Revise Pay Items List
Recurring Special Provision affected:	<input type="checkbox"/> Create RSP (No. _____)
	Effective _____ Letting
	RSP Sunset Date: _____
Standard Sheets affected:	<input type="checkbox"/> Revise RSP (No. _____)
NONE	Effective _____ Letting
	RSP Sunset Date: _____
Design Manual Sections affected:	Standard Drawing Effective _____
NONE	<input type="checkbox"/> Create RPD (No. _____)
	Effective _____ Letting
	<input type="checkbox"/> Technical Advisory
GIFE Sections cross-references:	GIFE Update Req'd.? Y _____ N _____
Section 5.16	By _____ Addition or _____ Revision
	Frequency Manual Update Req'd? Y _____ N _____
	By _____ Addition or _____ Revision
	Received FHWA Approval? _____

SPECIFICATIONS, SPECIAL PROVISIONS AND DRAWINGS
REVISION TO SPECIAL PROVISIONS

PROPOSAL TO STANDARDS COMMITTEE

PROBLEM(S) ENCOUNTERED: Minor changes are necessary to the field welding and basis of payment sections of the Structural Steel section.

PROPOSED SOLUTION: Incorporate the attached changes into the specification.

APPLICABLE STANDARD SPECIFICATIONS: 711

APPLICABLE STANDARD DRAWINGS: None

APPLICABLE DESIGN MANUAL SECTION: None

APPLICABLE SECTION OF GIFE: None

APPLICABLE RECURRING SPECIAL PROVISIONS: create new 711-x-xxx recurring special provision

PAY ITEMS AFFECTED: None

Submitted By: Greg Pankow

Title: State Construction Engineer

Organization: INDOT

Phone Number: 2-5502

Date: December 6, 2011

APPLICABLE SUB-COMMITTEE ENDORSEMENT: Ad hoc committee consisting of: Kevin Day, Jim Reilman, Mike Rumer

REVISIONS TO SPECIAL PROVISIONS

PROPOSED NEW 711-X-XXX STRUCTURAL STEEL, GENERAL

711-B-XXX STRUCTURAL STEEL, GENERAL

(Adopted XX-XX-12)

The Standard Specifications are revised as follows:

SECTION 711, BEGIN LINE 423, DELETE AND INSERT AS FOLLOWS:

(b) Edge Blocks

Edge blocks shall be used when radiographing flange butt shop welds of greater than 1/2 in. (13 mm) thickness. The edge blocks shall have the dimensions shown on the plans. The edge block shall be centered on the weld with a snug fit against the plate being radiographed, with the maximum gap shown on the plans. Edge blocks shall not be tack welded. Edge blocks shall be made of radiographically clean steel. The surface shall have an ANSI finish of 0.125 mil (3 μ m) or smoother.

(c) Field Welding

Field welding shall be by the shielded metal arc welding, SMAW, process and shall be in accordance with the requirements herein, ~~except where~~ Magnetic particle testing will not be required on welded connections that do not carry calculated stresses. ~~Magnetic particle inspection will not be required, so ANSI/AASHTO/AWS D1.5-88 Table 4.4 "Minimum Preheat and Interpass Temperature" as it refers to thicknesses to 3/4 in. (19 mm) inclusive, shall read "None". All field welding shall be preheated per the Bridge Welding Code, table 4.3. Electrodes with a low hydrogen classification will not be required~~ shall be used.

(ed) Welding of High Performance Steel

SECTION 711, BEGIN LINE 1226, INSERT AS FOLLOWS:

The cost of drilling holes for anchor bolts, elastomeric bearings, bridge bearing pads, fabrication, *painting*, erecting falsework, welding material, Charpy V-Notch toughness tests, and necessary incidentals shall be included in the cost of the pay items in this section.

COMMENTS AND ACTION

711-R-XXX STRUCTURAL STEEL, GENERAL

Motion:	Action:
Second:	<input type="checkbox"/> Passed as Submitted <input type="checkbox"/> Passed as Revised <input type="checkbox"/> Withdrawn
Ayes:	
Nays:	
Standard Specifications Sections affected:	<input type="checkbox"/> 20 Standard Specifications Book <input type="checkbox"/> Revise Pay Items List
711.32 pg 561.	
Recurring Special Provision affected:	<input type="checkbox"/> Create RSP (No. _____) Effective _____ Letting RSP Sunset Date: _____
NONE	
Standard Sheets affected:	<input type="checkbox"/> Revise RSP (No. _____) Effective _____ Letting RSP Sunset Date: _____
NONE	
Design Manual Sections affected:	Standard Drawing Effective _____ <input type="checkbox"/> Create RPD (No. _____) Effective _____ Letting <input type="checkbox"/> Technical Advisory
NONE	
GIFE Sections cross-references:	GIFE Update Req'd.? Y _____ N _____ By _____ Addition or _____ Revision
NONE	
	Frequency Manual Update Req'd? Y _____ N _____ By _____ Addition or _____ Revision
	Received FHWA Approval? _____