



FINAL DRAFT MINUTES

(Changes to the Agenda by the Action of the Committee shown as highlighted yellow and based on comments received - green (pgs. 21, 24, and 27).)

July 17, 2025, Standards Committee Meeting

August 7, 2025

TO: Standards Committee

FROM: Scott Trammell, Secretary

RE: Minutes of the July 17 Standards Committee Meeting

The Standards Committee meeting was called to order by Mr. Novak, sitting in as proxy for Mr. Pankow, Chair, at 09:00 a.m. on Thursday, July 17, which was held virtually via *Teams* (Microsoft application). The meeting was adjourned at 09:28 a.m. The next meeting is scheduled for Thursday, **August 21, 2025**.

The following committee members were in attendance:

Novak, Joseph*, Chairman, Director, Construction Management
Boruff, David, Traffic Engineering
Dave, Kumar, Pavement Engineering
Koch, Mike, District Construction, Fort Wayne District
Hauser, Derrick**, Construction Management
Orton, Mark, Highway Engineering
Pelz, Kurt, Construction Technical Support
Reilman, Jim, Materials and Tests
White, Peter, Bridge Engineering
Wooden, John, Contract Administration

*Proxy for Pankow, Gregory

**Proxy for Novak, Joseph

Also, the following attendees and others were captured by Teams:

Awwad, Nathan, INDOT
Barnes, Tracy, INDOT
Blanchard, Jacob, INDOT
Cosenza, Nicholas, INDOT
Couch, Gregory, INDOT
Osborn, Dan, ICI

John Leckie, IRMCA
John Susong, Rinker
Justin Getz, Contech
Kirsten Fowler, Asphalt Indiana
Kraushar, Matt, INDOT
Mouser, Elizabeth, INDOT

Delp, Patrick, INDOT
 Duncan, Steve, INDOT
 Duncan, Thomas, FHWA
 Emmert, Rhonda, INDOT
 Feutz, Douglas, INDOT
 Fox, Gary, INDOT
 Galetka, Jason, INDOT
 Harding, Matthew, INDOT
 Harris, Tom, INDOT
 Hathaway, Reed, INDOT
 Jacobs, David, INDOT
 Jason Conrad, K-Tech
 Jessica McVay, Purdue

Pete Capon, Reith-Riley
 Podorvanova, Lana, INDOT
 Powell, Traci M, INDOT
 Russell, Melissa, INDOT
 Shi, Runfa, INDOT
 Smith, Charles, INDOT
 Stahl, Carina, INDOT
 Steve Smart, County Materials
 Swiderski, Mark, INDOT
 Thornton, Donald, INDOT
 Towner, Anna E, INDOT
 Trammell, Scott, INDOT

The following items were discussed:

A. GENERAL BUSINESS

OLD BUSINESS (No items were listed)

NEW BUSINESS Approval of the [June 19, 2025](#) Minutes meeting

Mr. Novak requested a motion to approve the revised Final Draft Minutes of the June 19, 2025 meeting. Additional language was added to 626.10, of Item 1, page 10, following a discussion with Mr. Novak, Mr. Couch and Mr. Koch and was shown in the revised and posted Final Draft Minutes.

Motion: Mr. Koch
 Second: Mr. Pelz
 Ayes: 9
 Nays: 0

ACTION:

PASSED AS SUBMITTED

B. CONCEPTUAL PROPOSAL

(No items were listed)

C. STANDARD SPECIFICATIONS, SPECIAL PROVISIONS, AND STANDARD DRAWINGS PROPOSAL

OLD BUSINESS (No items were listed)

NEW BUSINESS

[Item No. 1](#)

[Mr. Reilman](#)

[pg. 4](#)

2026 Standard Specifications:

621.03

Preparation of Ground Before Seeding

621.05	Applying Fertilizer, Seed, and Mulch
914.04	Grass, Legume, and Forb Seed
914.05	Mulch
914.07	Sod

ACTION:**PASSED AS REVISED**

Item No. 2	Mr. Dave	pg. 11
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Recurring Special Provision:
406-R-xxx

*POLYMER MODIFIED ASPHALT BINDER, BONDING TACK***ACTION:****WITHDRAWN**

Item No. 3	Mr. Reilman	pg. 18
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2026 Standard Specifications:

622.02	Materials
622.07	Pruning
622.16	Damage to Plants
914.08	Plant Material
914.09	Miscellaneous Material

ACTION:**PASSED AS REVISED**

Item No. 4	Mr. Reilman	pg. 25
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2026 Standard Specifications:

729.02	Prequalification Requirement
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ACTION:**PASSED AS SUBMITTED**

cc: Committee Members
FHWA
ICI
file

PROPOSAL TO STANDARDS COMMITTEE

PROBLEM(S) ENCOUNTERED: The Indiana State Seed Commissioner's office is no longer testing seed or providing a letter showing each lot has been tested.

PROPOSED SOLUTION: Revise the Specifications to provide a different means of verifying the seed is acceptable for use.

APPLICABLE STANDARD SPECIFICATIONS: 621.03, 621.05, 914.04, 914.05, 914.07

APPLICABLE STANDARD DRAWINGS: none

APPLICABLE DESIGN MANUAL SECTION: none

APPLICABLE SECTION OF GIFE: none

APPLICABLE RECURRING SPECIAL PROVISIONS: create new 621 RSP

PAY ITEMS AFFECTED: none

APPLICABLE SUB-COMMITTEE ENDORSEMENT: Ad hoc: Sandy Bowman, Jessica Gray, Tom Harris, Jim Reilman, Charles Smith

IF APPROVED AS RECURRING SPECIAL PROVISION OR PLAN DETAILS, PROPOSED BASIS FOR USE:
All contracts with 621 pay items.

IMPACT ANALYSIS (attach report):

Submitted By: Jim Reilman

Title: State Materials Engineer

Organization: INDOT

Phone Number: (317) 522-9692

Date: 6/6/25

STANDARD SPECIFICATIONS, SPECIAL PROVISIONS AND STANDARD DRAWINGS

REVISION TO STANDARD SPECIFICATIONS

IMPACT ANALYSIS REPORT CHECKLIST

*Explain the business case as to why this item should be presented to the Standards Committee for approval.
Answer the following questions with Yes, No or N/A.*

Does this item appear in any other specification sections? No

Will approval of this item affect the Approved Materials List? No

Will this proposal improve:

Construction costs? N/A

Construction time? Yes

Customer satisfaction? N/A

Congestion/travel time? N/A

Ride quality? N/A

Will this proposal reduce operational costs or maintenance effort? N/A

Will this item improve safety:

For motorists? N/A

For construction workers? N/A

Will this proposal improve quality for:

Construction procedures/processes? Yes

Asset preservation? N/A

Design process? N/A

Will this change provide the contractor more flexibility? N/A

Will this proposal provide clarification for the Contractor and field personnel? Yes

Can this item improve/reduce the number of potential change orders? N/A

Is this proposal needed for compliance with:

Federal or State regulations? No

AASHTO or other design code? No

Is this item editorial? No

Provide any further information as to why this proposal should be placed on the Standards Committee meeting Agenda:

REVISION TO STANDARD SPECIFICATIONS

SECTION 621 – SEEDING AND SODDING

621.03 Preparation of Ground Before Seeding

621.05 Applying Fertilizer, Seed, and Mulch

SECTION 914 – ROADSIDE DEVELOPMENT MATERIALS

914.04 Grass, Legume, and Forb Seed

914.05 Mulch

914.07 Sod

(Note: Proposed changes shown to 2026 Standard Specifications
and highlighted gray)

The Standard Specifications are revised as follows:

SECTION 621, BEGIN LINE 30, DELETE AND INSERT AS FOLLOWS:

621.03 Preparation of Ground Before Seeding

The area to be seeded shall be made smooth and uniform and shall be in accordance with the finished grade and cross-section shown on the plans or as otherwise designated and shall be trimmed in accordance with 210. The seed bed, if not loose, shall be loosened to a minimum depth of **36** in. before fertilizer or seed is applied. **In areas of excessive vehicular traffic, such as parking of construction equipment near a bridge repair where soils are compacted by construction activities, the soil shall be loosened to a minimum depth of 6 in.**

Areas to be covered with topsoil shall be milled or disked slightly before the topsoil is placed. A disk, spike-toothed harrow, or other similar device may be used for this purpose. Such loosening will be required to ensure ~~bond of~~ the topsoil ~~bonds~~ with the surface on which it is placed and to form a uniform surface. The topsoil shall then be spread to a sufficient depth to produce the ~~thickness~~ specified ~~thickness~~ after it has been compacted lightly with an approved roller, tamping device, or other method. *The topsoil shall be loose enough that the tread of a person's boot shows when walking on the soil but shall not be so loose as to allow more than 1/2 in. of total compaction.*

SECTION 621, BEGIN LINE 54, DELETE AND INSERT AS FOLLOWS:

621.05 Applying Fertilizer, Seed, and Mulch

(a) Fertilizer

Fertilizer as specified shall be spread uniformly over the area to be seeded. Fertilizer shall be spread at the rate of **800/400** lb/ac unless otherwise specified.

(b) Seed

~~Seed may~~ **shall** be drilled in or mixed with water. The mixture shall be sprayed over the area to be seeded. An approved mechanical method which shall place the seed in direct contact with the soil may be used. In places inaccessible to mechanical equipment, or where the area to be seeded is small, a hand operated cyclone seeder or other approved equipment may be used **applied in any manner that results in uniform distribution of seed in which seed to soil contact at the optimal seed depth is attained necessary for the germination of the species being planted.** **Seed of warm season grasses, forbs, or aquatic species shall not be covered more than 1/8 in. All other seed shall not be covered more than 1/2 in.**

REVISION TO STANDARD SPECIFICATIONS

SECTION 621 – SEEDING AND SODDING

621.03 Preparation of Ground Before Seeding

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SECTION 914 – ROADSIDE DEVELOPMENT MATERIALS

914.04 Grass, Legume, and Forb Seed

914.05 Mulch

914.07 Sod

SECTION 914, BEGIN LINE 29, DELETE AND INSERT AS FOLLOWS:

914.04 Grass, Legume, and Forb Seed

Grass, legume, and ~~F~~forb seed in the quantities and varieties required shall be furnished full-tagged and delivered in properly designated packages or bags as directed. Seeds shall be in accordance with the following requirements.

Native grass and forb seed shall be purchased from lots for which ~~test results are~~ *Report of Analysis is provided containing results for germination, noxious, and purity.* Testing will not be required for aquatic species. ~~When normal germination testing is not practical for forb species, a tetrazolium test shall be conducted to determine seed viability.~~

Seeds shall contain ~~none of the prohibited noxious weeds listed in 360 IAC 1-1-5 or any that are listed~~ *no regulated species listed or addressed in the Acts of the General Assembly of the State and any related Rules and Policies* ~~any Federal or State laws, local laws, ordinances, rules, regulations, orders, or decrees from bodies or tribunals having any jurisdiction or authority over the project. Restricted noxious weed seed listed in 360 IAC 1-1-6 shall not exceed 0.25% by weight in accordance with IC 15-15-1-32.~~ Clover shall be free from dodder with no tolerance allowed.

Requirements noted above are minimum and trade allowances will not be allowed.

Seed shall be purchased from sources of supply that ~~have been accepted and reported by the~~ *hold an approved and accepted Indiana State Seed Permit from the State Seed Commissioner, Purdue University, West Lafayette, Indiana, and found to be satisfactory.*

~~Seed of native grasses~~ *All seed lots* shall be tested by ~~the State Seed Commissioner or by an independent laboratory~~ *a United States Department of Agriculture accredited seed laboratory or the Indiana State Seed Laboratory.* ~~Seed of forbs shall be tested by an independent laboratory.~~ Test results ~~by independent laboratories~~ shall be signed by a *Certified Seed Analyst or a Registered Seed Technologist* ~~and shall be submitted to the State Seed Commissioner for review.~~ *This report is required* ~~Approval from the State Seed Commissioner shall be obtained before seed is installed.~~

Seed will be considered expired 15 months after the date it was tested. Expired seed shall not be installed. *If more than 15 months have elapsed since the seed was last tested, the Contractor may have the seed retested. If the seed is retested, the new germ date will be used, the 15-month window will be reset, and the germ date and germ percentage shall be updated on the label.* Each bag or container of seed shall have a printed tag or label providing all the information required by IC 15-15-1-32. Seed from bags with no labels, illegible labels, or with labels not providing all the required information will not be

REVISION TO STANDARD SPECIFICATIONS

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914.07 Sod

accepted.

The seed supplier shall provide an Other type certification in accordance with 916 that lists the seed lots used in the mixture and shall indicate that the seed mixture supplied meets the contract requirements for the specific contract that the particular seed mixture is supplied. ~~Also, as part of the certification, the seed supplier shall provide a copy of the State Seed Commissioner's letter for the seed mixture that shows that each seed lot has been tested and found to be satisfactory.~~ The specific test results for each seed lot shall also be attached to the certification. *For sSeed mixtures R, U, P, Shade, Floodplain, Spring Summer Cover Crop, and Fall Cover Crop in accordance with 621.06, these do not need to be submitted to the State Seed Commissioner's office for approval.*

Seed which meets the weed seed tolerance but does not comply with the purity or germination requirements, or both, may be used provided the percentage of purity or the percentage of germination is not more than 10% below the minimum specified and that the result obtained from the following formula does not exceed the maximum percent of weed seeds allowed.

SECTION 914, BEGIN LINE 97, DELETE AND INSERT AS FOLLOWS:

~~For all other seed indicated to be used but not shown in the charts above, that seed shall be placed at the indicated rate and be 100% pure live seed.~~ *Seed shall be placed to achieve the prescribed pure live seed planting rate which may necessitate a greater bulk planting rate to be used.*

914.05 Mulch

(a) Mulch for Seeding

Mulch for seeding may consist of straw, excelsior mulch, wood cellulose fiber mulch, excelsior blanket, paper mat, or straw mat. ~~All mulch shall be reasonably free from primary noxious weeds in accordance with 914.04~~ *Mulch materials shall contain no viable plant propagules.*

1. Excelsior Mulch

Excelsior mulch shall consist of wood fibers cut from sound green timber. The average length of the fibers shall be 4 in. to 6 in. The cut shall be made to provide maximum strength of fiber, but at a slight angle to the natural grain of the wood to cause splintering of the fibers when weathering to provide adherence to each other and to the soil.

2. Wood Cellulose Fiber

Wood cellulose fiber mulch shall be made from wood chip particles manufactured particularly for discharging uniformly on the ground surface when ~~disbursed~~ *dispersed* by

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914.07 Sod

a hydraulic water sprayer. It shall remain in uniform suspension in water under agitation and blend with ~~grass~~ seed, and fertilizer when allowed, to form a homogeneous slurry. The mulch fibers shall intertwine physically to form a strong moisture holding mat on the ground surface. The mulch shall be heat processed to prevent germination or growth inhibiting factors. It shall be non-toxic and colored green. The percent of moisture content shall be determined in accordance with 621.14(c), except material containing more than 15% will be rejected. The ash content shall not exceed 1.5%. One hundred grams of oven dried material saturated in water, drained, and weighed shall hold a minimum of 1,000 grams of water.

SECTION 914, BEGIN LINE 194, DELETE AND INSERT AS FOLLOWS:

914.07 Sod

Sod shall consist of fibrous, well rooted, bluegrass, fescue, or other approved grass cut to a height of 2 to 3 in. Edges of sod shall be cut cleanly, either by hand or machine, to a uniform minimum thickness of 3/4 in. or more. The roots shall be exposed in the sod strip to allow the sod to be handled without undue tearing or breaking. The sod strip shall be of a uniform width of no less than 16 in. and no less than 2 ft in length. Sod shall be free from all ~~primary~~ noxious weeds in accordance with 914.04. Acceptance in the field before cutting shall not preclude rejection when delivered to the ~~workproject~~ if such contamination is found.

COMMENTS AND ACTION

621.03 Preparation of Ground Before Seeding
 621.05 Applying Fertilizer, Seed, and Mulch
 914.04 Grass, Legume, and Forb Seed
 914.05 Mulch
 914.07 Sod

DISCUSSION:

This item was introduced and presented by Mr. Reilman who stated that the Indiana State Seed Commissioner's office is no longer testing seed or providing a letter showing each lot has been tested.

Mr. Reilman proposed to revise the Specifications to provide a different means of verifying the seed is acceptable for use.

Minor edits, along with minor revisions by Mr. Reilman, are as shown. Due to comments and questions received by Mr. Kraushar, prior to the meeting, revisions have been incorporated as shown above.

Ms. Mouser pointed out that the change the fertilizer rate from 800 to 400 will require a design manual change, and her team will get that out when the RSP becomes effective.

Mr. Duncan, FHWA, mentioned that he appreciates the added language in 621.03 that defines the term "loose" for the seed-bed.

Mr. Reilman revised his motion to approve this item. There was no further discussion and this item passed as revised.

Motion: Mr. Reilman Second: Mr. Dave Ayes: 9 Nays: 0 FHWA Approval: YES	Action: <input type="checkbox"/> Passed as Submitted <input checked="" type="checkbox"/> Passed as Revised <input type="checkbox"/> Withdrawn
2026 Standard Specifications Sections: 621 pg. 570; 914 pg. 1120, 1124, and 1126 Recurring Special Provisions or Plan Details: NONE Standard Drawing affected: NONE Design Manual Chapter: TBD GIFE Section: NONE	<input checked="" type="checkbox"/> 2028 Standard Specifications Revise Pay Items List Notification to Designers if change is <u>not</u> addressed by RSP <input checked="" type="checkbox"/> Create RSP (No. 621-R-800 and 914-M-070) Effective: December 1, 2025 <input type="checkbox"/> Revise RSP (No. __) Effective: <input type="checkbox"/> Standard Drawing Effective: <input type="checkbox"/> Create RPD (No. __) Effective: <input checked="" type="checkbox"/> GIFE Update <input checked="" type="checkbox"/> Frequency Manual Update <input type="checkbox"/> AWP Update

PROPOSAL TO STANDARDS COMMITTEE

PROBLEM(S) ENCOUNTERED: The standard specifications currently only allow polymer modified asphalt tack coat with the use of a spray paver. However, other projects that do not utilize a spray paver may benefit from the use of polymer modified asphalt tack coat.

PROPOSED SOLUTION: Implement the proposed changes to include Polymer Modified Asphalt Binder (PMAB) which allows Polymer Modified Tack Coat to be sprayed from a modified tack coat distributor.

APPLICABLE STANDARD SPECIFICATIONS: 406

APPLICABLE STANDARD DRAWING: None

APPLICABLE DESIGN MANUAL CHAPTER: None

APPLICABLE SECTION OF GIFE: None

APPLICABLE RECURRING SPECIAL PROVISION OR PLAN DETAILS: Create new RSP

PAY ITEMS AFFECTED: A unique pay item has already been created 406-12957 POLYMER MODIFIED ASPHALT BINDER

APPLICABLE SUB-COMMITTEE ENDORSEMENT: Coordination with Nathan Awwad and Asphalt Materials

IF APPROVED AS RECURRING SPECIAL PROVISION OR PLAN DETAILS, PROPOSED BASIS FOR USE: Pay Item: 406-12957 POLYMER MODIFIED ASPHALT BINDER – The pavement design will direct designers when to use the pay item.

IMPACT ANALYSIS (attach report): See Attached

Submitted By: Nick Cosenza on behalf of Kumar Dave

Title: Pavement Engineer

Division: Highway Design

E-mail: ncosenza@indot.in.gov

Date: 6/23/25

IMPACT ANALYSIS REPORT CHECKLIST

Explain the business case as to why this item should be presented to the Standards Committee for approval. Answer the following questions with Yes, No or N/A.

Does this item appear in any other specification sections? No

Will approval of this item affect the Qualified Products List (QPL)? No

Will this proposal improve:

Construction costs? Yes

Construction time? Yes

Customer satisfaction? N/A

Congestion/travel time? N/A

Ride quality? Yes

Will this proposal reduce operational costs or maintenance effort? Yes

Will this item improve safety:

For motorists? Yes

For construction workers? N/A

Will this proposal improve quality for:

Construction procedures/processes? Yes

Asset preservation? Yes

Design process? N/A

Will this change provide the contractor more flexibility? Yes

Will this proposal provide clarification for the Contractor and field personnel? N/A

Can this item improve/reduce the number of potential change orders? N/A

Is this proposal needed for compliance with:

Federal or State regulations? No

AASHTO or other design code? No

Is this item editorial? No

Provide any further information as to why this proposal should be placed on the Standards Committee meeting Agenda: N/A

REVISION TO SPECIAL PROVISION

406-R-xxx POLYMER MODIFIED ASPHALT BINDER, BONDING TACK (proposed new)

(Note: Proposed changes shown to 2026 Standard Specifications
and highlighted gray)

406-R-xxx POLYMER MODIFIED ASPHALT BINDER, BONDING TACK

(Adopted xx-xx-25)

The Standard Specifications are revised as follows:

SECTION 406, BEGIN LINE 3, DELETE AND INSERT AS FOLLOWS:

406.01 Description

This work shall consist of preparing and treating an existing pavement or concrete surface with asphalt material in accordance with 105.03.

MATERIALS

406.02 Materials

The type and grade of asphalt material shall be in accordance with the following:

<i>Anti-Tracking Solution</i>	<i>406.05(b)1</i>
Asphalt Emulsion, SS-1h, AE-NT	902.01(b)
PG Asphalt Binder, PG 58S-28	902.01(a)
<i>Polymer Modified Asphalt Binder</i>	<i>406.05(b)1</i>

CONSTRUCTION REQUIREMENTS

406.03 Equipment

A distributor in accordance with 409.03(a) shall be used.

406.04 Preparation of Surface

The existing surface to be treated shall be free of foreign materials deemed detrimental by the Engineer. The surface where the asphalt material is applied shall be free of standing water and shall be cleaned of dust, debris, and any substances that will prevent adherence. *The ambient and pavement surface temperature at the time of installation shall be a minimum of 40 F and rising.*

406.05 Application of Asphalt Material

(a) Tack Coat

The asphalt material shall be uniformly applied across the entire width of pavement to be overlaid and shall cover a minimum of 95% of the surface. The asphalt material shall be given sufficient time to break and set to minimize tracking from hauling and laydown equipment. Areas of inadequate coverage that create streaking or areas of excessive coverage that create ponding shall be corrected to obtain an even distribution.

REVISION TO SPECIAL PROVISION

406-R-xxx POLYMER MODIFIED ASPHALT BINDER, BONDING TACK (proposed new)

The asphalt material application rate shall be based on the existing surface type and shall be as follows:

Surface Type	Application Rate*(gal./sq yd)
New Asphalt	0.05 to 0.08
Existing Asphalt	0.06 to 0.11
Milled Asphalt	0.06 to 0.12
PCCP	0.05 to 0.08
* The asphalt material shall not be diluted.	

(b) Polymer Modified Asphalt Binder**1. Material Requirements**

The requirements for the Polymer Modified Asphalt Binder, PMAB, shall be in accordance with the following:

Characteristics	Requirement	Test Method
Dynamic shear @ 88°C (unaged), $G^*/\sin \delta$, kPa	1.00 min.	AASHTO T 315
Creep stiffness @ -18°C (unaged), Stiffness (S), MPa m-value	300 max. 0.300 min.	AASHTO T 313
Rotational Viscosity, 135°C, cP	3000 max.	AASHTO T 316
Penetration at 25°C, 100g, 5s	40 min.	AASHTO T 49
Elastic Recovery, 100 mm elongation, cut immediately, 25°C, %	70 min.	ASTM D6084, Procedure A
Separation of Polymer, Difference in °C of the softening point (ring and ball)	3.0 max.	ASTM D7173

The base asphalt shall meet the requirements of AASHTO M 320. Elastomers shall be added to a base asphalt and shall be either a styrene-butadiene diblock or triblock copolymer without oil extension, or a styrene-butadiene rubber. Air blown asphalt, acid modification, or other modifiers will not be allowed.

PMAB shall be furnished by a supplier on the QPL of Performance-Graded Asphalt Binder Suppliers. A Type A certification for the PMAB shall be furnished in accordance with 916.

The requirements for the Anti-Tracking Solution, ATS, shall be in accordance with the following:

REVISION TO SPECIAL PROVISION

406-R-xxx POLYMER MODIFIED ASPHALT BINDER, BONDING TACK (proposed new)

Characteristics	Requirement	Test Method
Solids content, %	4.0 – 10.0	ASTM D6934, Procedure A

2. Additional Equipment Requirements

Application of the material shall be with a distributor in accordance with 409.03(a) that is equipped with a heating and recirculating system along with a functioning auger agitating system or vertical shaft mixer in the tank to prevent localized heating. All transport and storage assets for the material shall be equipped with a heating and recirculating system along with a functioning auger agitating system or vertical shaft mixer in the tank to prevent localized heating.

If used, the Material Transfer Vehicle, MTV, shall be equipped with a water system capable of wetting the tires and preventing tracking, otherwise the MTV shall not come into contact with the PMAB material.

3. Placement

The PMAB supplier shall provide a qualified manufacturer's representative on site at the start of work to verify proper placement and construction methods required to eliminate pickup or tracking of the material. The PMAB material in accordance with 406.05(b)1 shall be applied prior to mixtures placed on all travel lanes, turn lanes, auxiliary lanes, and ramps. The ambient and pavement surface temperature at the time of installation shall be a minimum of 40 F and rising.

The PMAB shall be uniformly applied at the following rate based on the mixture that will be paved on top of the PMAB:

PMAB Application Rate*		
Mixture Designation	19.0 mm or 25.0 mm	12.5 mm or 9.5 mm
PMAB Application Rate, gal./sq yd	0.155	0.125
*May be adjusted on-site $\pm 10\%$ per manufacturer's recommendation on site.		

The PMAB shall be uniformly applied across the entire width of pavement to be overlaid and shall cover a minimum of 95% of the surface. The PMAB shall be applied at a temperature not to exceed 350°F as recommended by the asphalt binder supplier. The material shall be suitable for construction traffic to drive on within 30 minutes of placement without pickup or tracking. Placement shall stop and damaged areas shall be repaired if pickup or tracking occurs. This shall be aided by the use of an ATS, applied directly following the application of the PMAB. The ATS shall be applied at a rate of 0.07 to 0.13 gal./sq yd in accordance with the manufacturer's recommendations. The ATS shall not alter the properties or performance of the PMAB or the subsequent HMA course.

No overlapping shall occur. To prevent overlap at transverse locations, heavy paper may be used.

REVISION TO SPECIAL PROVISION

406-R-xxx POLYMER MODIFIED ASPHALT BINDER, BONDING TACK (proposed new)

Treated areas shall not be opened to traffic until the PMAB material has been overlaid.

4. Acceptance

The Contractor shall furnish to the Engineer a bill of lading for each tanker supplying PMAB to the project.

The application rate will be checked at least once per ~~lane mile day~~. For projects less than one lane mile, the rate will be checked a minimum of one time. The rate will be checked by weight per square yard. A suitable paper or pan shall be placed at a random location in the path of the placement for the PMAB. After application of the PMAB, the paper or pan shall be picked up and weighed. The weight per square yard will be determined and converted (60F basis) to gallons per square yard. The tolerance from the plan target weight per square yard shall be $\pm 10\%$. The contractor shall be responsible for replacing the PMAB in the area where the application rate was checked.

406.06 Method of Measurement

Asphalt for tack coat will be measured by the ton or by the square yard. PMAB will be measured by the ton.

406.07 Basis of Payment

The accepted quantities of tack coat will be paid for at the contract unit price per ton or per square yard for asphalt for tack coat, complete in place. PMAB will be paid for at the contract unit price per ton for PMAB complete in place. The cost of the ATS shall be included in the cost of the PMAB.

Payment will be made under:

Pay Item	Pay Unit Symbol
Asphalt for Tack Coat	TON
	SYS
Polymer Modified Asphalt Binder.....	TON

COMMENTS AND ACTION

406-R-xxx POLYMER MODIFIED ASPHALT BINDER, BONDING TACK

DISCUSSION:

Mr. Dave withdrew this item pending further review.

Prior to the meeting:

Mr. Koch asked about the minimum temperature of 40 degrees F, and if the language is only intended for the PMAB?

Mr. Koch also asked if the application rate needs to be checked every mile, which could mean a lot of testing, or if it could be checked once per day?

Mr. Cosenza and Mr. Awwad responded that the minimum temperature is intended for the PMAB specifically and that the testing frequency can be changed to only once per day. Therefore, the sentence for the minimum temperature of 40 degrees F was moved from 406.04 to 406.05(b)3, and the testing frequency has been changed to once per day, as shown above.

<p>Motion: Mr. Second: Mr. Ayes: Nays: FHWA Approval:</p>	<p><u>Action:</u></p> <p><input type="checkbox"/> Passed as Submitted <input type="checkbox"/> Passed as Revised <input checked="" type="checkbox"/> Withdrawn</p>
<p>Standard Specifications Sections: 406 pg. 346-347</p> <p>Recurring Special Provisions or Plan Details: (proposed new)</p> <p>Standard Drawing affected: NONE</p> <p>Design Manual Chapter: NONE</p> <p>GIFE Section: NONE</p>	<p><input type="checkbox"/> 2028 Standard Specifications <input type="checkbox"/> Revise Pay Items List <input type="checkbox"/> Notification to Designers if change is <u>not</u> addressed by RSP</p> <p><input type="checkbox"/> Create RSP (No.) Effective:</p> <p><input type="checkbox"/> Revise RSP (No. __) Effective:</p> <p><input type="checkbox"/> Standard Drawing Effective:</p> <p><input type="checkbox"/> Create RPD (No. __) Effective:</p> <p><input type="checkbox"/> GIFE Update <input type="checkbox"/> Frequency Manual Update <input type="checkbox"/> AWP Update</p>

PROPOSAL TO STANDARDS COMMITTEE

PROBLEM(S) ENCOUNTERED: The QPL for seedlings has been deleted. There are other outdated or incorrect references that need to be corrected.

PROPOSED SOLUTION: Specify another way for seedlings and items formerly on the Seedling QPL to be provided. Update incorrect and outdated references.

APPLICABLE STANDARD SPECIFICATIONS: 622, 914

APPLICABLE STANDARD DRAWINGS: None

APPLICABLE DESIGN MANUAL SECTION: None

APPLICABLE SECTION OF GIFE:

APPLICABLE RECURRING SPECIAL PROVISIONS: create new 622 RSP

PAY ITEMS AFFECTED: None

APPLICABLE SUB-COMMITTEE ENDORSEMENT: Ad hoc: IDNR, Jim Reilman, Charles Smith

IF APPROVED AS RECURRING SPECIAL PROVISION OR PLAN DETAILS, PROPOSED BASIS FOR USE:
All contracts with a 622 pay item

IMPACT ANALYSIS (attach report):

Submitted By: Jim Reilman

Title: State Materials Engineer

Organization: INDOT

Phone Number: (317) 522-9692

Date: 6/24/25

STANDARD SPECIFICATIONS, SPECIAL PROVISIONS AND STANDARD DRAWINGS

REVISION TO STANDARD SPECIFICATIONS

IMPACT ANALYSIS REPORT CHECKLIST

*Explain the business case as to why this item should be presented to the Standards Committee for approval.
Answer the following questions with Yes, No or N/A.*

Does this item appear in any other specification sections? No

Will approval of this item affect the Approved Materials List? No

Will this proposal improve:

Construction costs? N/A

Construction time? N/A

Customer satisfaction? N/A

Congestion/travel time? N/A

Ride quality? N/A

Will this proposal reduce operational costs or maintenance effort? N/A

Will this item improve safety:

For motorists? N/A

For construction workers? N/A

Will this proposal improve quality for:

Construction procedures/processes? N/A

Asset preservation? N/A

Design process? N/A

Will this change provide the contractor more flexibility? N/A

Will this proposal provide clarification for the Contractor and field personnel? Yes

Can this item improve/reduce the number of potential change orders? N/A

Is this proposal needed for compliance with:

Federal or State regulations? No

AASHTO or other design code? No

Is this item editorial? No

Provide any further information as to why this proposal should be placed on the Standards Committee meeting Agenda:

REVISION TO STANDARD SPECIFICATIONS

SECTION 622 – PLANTING TREES, SHRUBS, AND VINES

622.02 Materials

622.07 Pruning

622.16 Damage to Plants

SECTION 914 – ROADSIDE DEVELOPMENT MATERIALS

914.08 Plant Material

914.09 Miscellaneous Material

(Note: Proposed changes shown to 2026 Standard Specifications
and highlighted gray)

The Standard Specifications are revised as follows:

SECTION 622, BEGIN LINE 13, DELETE AND INSERT AS FOLLOWS:

622.02 Materials

Materials shall be in accordance with the following:

Backfill Material	914.01
Fertilizer.....	914.03
Mulch.....	914.05(b)
Pipe.....	914.09(e)
Plants <i>Materials</i>	914.08
Porous Material	914.09(d)
Tree Wound Dressing.....	914.09(c)
Water	914.09(a)

SECTION 622, BEGIN LINE 120, DELETE AS FOLLOWS:

622.07 Pruning

Before the plant is placed in the plant hole, any bruised or broken parts of roots shall be cut off smoothly as approved unless otherwise specified or directed. All plants shall be pruned either before or after planting. Such pruning generally shall consist of thinning out or cutting back secondary branching to reduce the foliage by 1/3 to 1/2 in accordance with accepted horticultural practices. Pruning operations shall maintain the general crown outline and characteristic branching pattern for each species. Pruning or cutting back of terminal leaders which are over 3/8 in. in diameter at the point of cut will not be allowed. Broken or dead branches, or any other objectionable parts of the plant, shall be removed throughout the life of the contract. Pruning tools shall be kept sharp and shall be sterilized in denatured alcohol after each hour of use. ~~All cut surfaces 3/8 in. or more in diameter shall be painted with a tree wound dressing.~~

Bare rooted shrubs shall be cut back to 1/2 their minimum specified height as shown on the plans. Pruning shall be performed ~~after the shrubs have been sealed with Department seals and~~ prior to the leaf buds breaking dormancy. At the time of the spring and fall inspections, bare rooted shrubs will be accepted at their original specified height provided they are healthy, in good growing condition, and are no less than 1/2 the minimum specified height.

SECTION 622, BEGIN LINE 309, DELETE AS FOLLOWS:

622.16 Damage to Plants

During all operations of tree protection, care shall be used to prevent unnecessary

REVISION TO STANDARD SPECIFICATIONS

SECTION 622 – PLANTING TREES, SHRUBS, AND VINES

622.02 Materials

622.07 Pruning

622.16 Damage to Plants

SECTION 914 – ROADSIDE DEVELOPMENT MATERIALS

914.08 Plant Material

914.09 Miscellaneous Material

cutting of roots and to prevent scarring or damage to selected trees or shrubs. Motorized equipment shall not be operated within the drip line of trees unless specified. Where trimming of branches or cutting of roots is necessary, all cuts shall be made cleanly with proper sharp tools in accordance with generally accepted horticultural practices. ~~Scarred areas and cut surfaces 3/8 in. or more in diameter shall be covered completely with a tree wound dressing.~~

SECTION 914, BEGIN LINE 210, DELETE AND INSERT AS FOLLOWS:

914.08 Plant Materials

~~Hardy perennials~~ *Nursery stock in accordance with IC 14-8-2-184 shall be provided from an IDNR-licensed nursery or nursery dealer located in the State of Indiana. The nursery or nursery dealer shall have an active nursery dealer license.*

If ~~the plant material~~ *a pay item* is shown on the Schedule of Pay Items as plant or seedling, the Contractor shall submit *a list indicating* its source of supply for each of these plant materials for approval prior to delivery to the project site. This ~~plant~~ list shall *include the name of the plant,* include the name of the source of supply, and the location where the plants were grown. A certification that the plants are available at this source, that the plants were grown at the prescribed location, and that there is a firm commitment for their purchase at the time of certification shall be provided. These procedures shall be followed for approval of alternate sources when the originally approved source is unable to furnish plants at the time when needed. Plants shall be in accordance with the requirements set out herein. Unless otherwise specified, all plant material shall be acquired from zones ~~4, 5, or 6, 5b, 6a, 6b, 7a, or 7b.~~ However, plant material shall be acquired from zones no further than ~~1/2 zone~~ *half-zone* south of the zone in which the project is located.

Hardiness zones shall be determined from the *United States Department of Agriculture's Plant Hardiness Zone Map, Miscellaneous Publications No. 1475, Agricultural Research Service, United States Department of Agriculture, published by the U. S. Government Printing Office, Washington, D.C.* The Contractor shall have a copy of this map.

~~If the plant material is shown on the Schedule of Pay Items as seedlings, the Contractor shall choose a source which is shown on the QPL of Seeding Sources. The QPL will specify the sources that are currently on an immediate use basis. If the source is not on the QPL, then the same procedure shall be followed as stated above for plants to obtain approval.~~

(a) Quality of Plant Material

All plants shall be first class and representative of the normal species or varieties, true to type, and standard form. Unless otherwise specified, all plants shall be nursery

REVISION TO STANDARD SPECIFICATIONS

SECTION 622 – PLANTING TREES, SHRUBS, AND VINES

622.02 Materials

622.07 Pruning

622.16 Damage to Plants

SECTION 914 – ROADSIDE DEVELOPMENT MATERIALS

914.08 Plant Material

914.09 Miscellaneous Material

grown stock that had been transplanted or ~~root pruned~~ *root pruned* two or more times according to the kind and size of plant. The root system shall be vigorous and well developed. The branch system shall be *normally* developed ~~normally~~. All plants shall be free from disfiguring knots, sun-scald, injuries, abrasions of the bark, dead or dry wood, broken terminal growth, or other objectionable disfigurements.

(b) Plant Names

Plants shall be true to name, following standard botanical and common nomenclature as ~~adopted by the American Joint Committee on Horticultural Nomenclature given in the current edition of Standardized Plant Names listed in the United States Department of Agriculture's Plants Database.~~ All trees delivered shall be ~~tagged~~ *labeled* legibly *in accordance with the names and sizes of the trees* ~~312 IAC 18~~.

SECTION 914, BEGIN LINE 263, DELETE AND INSERT AS FOLLOWS:

(d) Grading Standards

Grading of plants shall be in accordance with the American ~~Association of Nursery Horticultural Standards of the current ASNS,~~ *& Landscape Association's American Standard for Nursery Stock, ANSI Z-60.1*, as revised herein and on the plans.

SECTION 914, BEGIN LINE 328, DELETE AS FOLLOWS:

(k) Inspection

Plant materials shall be subject to inspection at any time during the life of the contract. Such inspection shall not be construed as final acceptance of the plants involved. Any stock which is not in accordance with these specifications will be rejected and shall be removed from the project.

Balled and burlapped plants may have the ball opened for inspection, at the option of the Department, to determine if the root system is sufficient to ensure plant growth. If after breaking open, the ball is found to be acceptable, payment for the destroyed plant will be made at 50% of the contract price for the plant involved.

Nursery stock may be inspected at the nursery before digging or shipping ~~and sealed with Department seals~~. If not inspected and sealed at the nursery, it shall be done at a final collecting point at or adjacent to the project and prior to planting, unless otherwise specified in writing. Notification shall be made a minimum of three days in advance of delivery of unsealed plants. Large quantities of small plant material such as shrubs, seedlings, vines, and groundcovers shall be sealed in a satisfactory manner. Sealing of plants shall not be considered as final acceptance and shall not waive the responsibility to furnish, plant, and maintain material that complies with the specifications.

REVISION TO STANDARD SPECIFICATIONS

SECTION 622 – PLANTING TREES, SHRUBS, AND VINES

622.02 Materials

622.07 Pruning

622.16 Damage to Plants

SECTION 914 – ROADSIDE DEVELOPMENT MATERIALS

914.08 Plant Material

914.09 Miscellaneous Material

SECTION 914, BEGIN LINE 382, DELETE AND INSERT AS FOLLOWS:

(c) ~~Tree Wound Dressing~~Blank

~~Dressing for treating tree wounds or cuts shall be either:~~

- ~~1. an approved black asphaltum base antiseptic paint;~~
- ~~2. an approved black paint consisting of Bordeaux Mixture, raw linseed oil, and lampblack; or~~
- ~~3. an approved black paint consisting of zinc oxide, raw linseed oil, and lampblack.~~

SECTION 914, BEGIN LINE 425, ~~DELETE AND~~ INSERT AS FOLLOWS:

(h) Filter Sock

Filter socks for sediment control applications shall use a continuous tubular knitted mesh netting with 3/8 in. openings and constructed of 500 denier polypropylene. They shall be set in place using hardwood stakes of 1 by 2 in. or stakes of equivalent strength.

Where using socks with compost soil bark mixture as a filler, the Contractor shall use a continuous knitted mesh netting with 3/8 in. openings and constructed of 5 mil thickness of photodegradable HDPE.

No viable plant propagules shall be present in the filler material.

Filler particle size shall not be greater than 3 by 1/2 by 1/2 in. and shall be capable of staying within the sock.

COMMENTS AND ACTION

622.02 Materials
 622.07 Pruning
 622.16 Damage to Plants
 914.08 Plant Material
 914.09 Miscellaneous Material

DISCUSSION:

This item was introduced and presented by Mr. Reilman who stated that the QPL for seedlings has been deleted. There are other outdated or incorrect references that need to be corrected.

Mr. Reilman proposed to specify another way for seedlings and items formerly on the Seedling QPL to be provided. Mr. Reilman also proposed to update incorrect and outdated references, as shown above.

Due to comments and questions received by Mr. Kraushar, prior to the meeting, revisions have been incorporated as shown above, which were explained by Mr. Reilman.

Mr. Reilman revised his motion to approve this item. There was no further discussion and this item passed as revised.

Motion: Mr. Reilman Second: Mr. Koch Ayes: 9 Nays: 0 FHWA Approval: YES	Action: <input type="checkbox"/> Passed as Submitted <input checked="" type="checkbox"/> Passed as Revised <input type="checkbox"/> Withdrawn
Standard Specifications Sections: 622 pg. 581, 583, and 586; 914 pg. 1126 - 1130. Recurring Special Provisions or Plan Details: NONE	<input checked="" type="checkbox"/> 2028 Standard Specifications <input type="checkbox"/> Revise Pay Items List <input type="checkbox"/> Notification to Designers if change is <u>not</u> addressed by RSP <input checked="" type="checkbox"/> Create RSP (No. 622-R-799 and 914-M-070) Effective: December 1, 2025
Standard Drawing affected: NONE	<input type="checkbox"/> Revise RSP (No. __) Effective:
Design Manual Chapter: NONE	<input type="checkbox"/> Standard Drawing Effective:
GIFE Section: TBD	<input type="checkbox"/> Create RPD (No. __) Effective:
	<input type="checkbox"/> GIFE Update <input checked="" type="checkbox"/> Frequency Manual Update <input checked="" type="checkbox"/> AWP Update

PROPOSAL TO STANDARDS COMMITTEE

PROBLEM(S) ENCOUNTERED: A portion of 729.02 has been determined to possibly be in conflict with Indiana Code.

PROPOSED SOLUTION: Modify 729.02 to remove the portion in question.

APPLICABLE STANDARD SPECIFICATIONS: 729.02

APPLICABLE STANDARD DRAWINGS: none

APPLICABLE DESIGN MANUAL SECTION: none

APPLICABLE SECTION OF GIFE: none

APPLICABLE RECURRING SPECIAL PROVISIONS: create new 729

PAY ITEMS AFFECTED: none

APPLICABLE SUB-COMMITTEE ENDORSEMENT: Ad hoc: Linda Jelks, Jim Reilman, Matthew Sutton

IF APPROVED AS RECURRING SPECIAL PROVISION OR PLAN DETAILS, PROPOSED BASIS FOR USE:
All contracts with a 729 pay item

IMPACT ANALYSIS (attach report):

Submitted By: Jim Reilman

Title: State Materials Engineer

Organization: INDOT

Phone Number: (317) 522-9692

Date: 7/11/2025

STANDARD SPECIFICATIONS, SPECIAL PROVISIONS AND STANDARD DRAWINGS

REVISION TO STANDARD SPECIFICATIONS

IMPACT ANALYSIS REPORT CHECKLIST

*Explain the business case as to why this item should be presented to the Standards Committee for approval.
Answer the following questions with Yes, No or N/A.*

Does this item appear in any other specification sections? No

Will approval of this item affect the Approved Materials List? No

Will this proposal improve:

Construction costs? N/A

Construction time? N/A

Customer satisfaction? N/A

Congestion/travel time? N/A

Ride quality? N/A

Will this proposal reduce operational costs or maintenance effort? N/A

Will this item improve safety:

For motorists? N/A

For construction workers? N/A

Will this proposal improve quality for:

Construction procedures/processes? N/A

Asset preservation? N/A

Design process? N/A

Will this change provide the contractor more flexibility? N/A

Will this proposal provide clarification for the Contractor and field personnel? Yes

Can this item improve/reduce the number of potential change orders? N/A

Is this proposal needed for compliance with:

Federal or State regulations? Yes

AASHTO or other design code? No

Is this item editorial? No

Provide any further information as to why this proposal should be placed on the Standards Committee meeting Agenda:

REVISION TO STANDARD SPECIFICATIONS

SECTION 729 – HEAT STRAIGHTENING OF STEEL MEMBERS IN THE FIELD

729.02 Prequalification Requirement

(Note: Proposed changes to 2026 Standard Specifications shown highlighted gray)

The Standard Specifications are revised as follows:

SECTION 729, BEGIN LINE 9, DELETE AND INSERT AS FOLLOWS:

729.02 Prequalification Requirement

The Contractor performing the heat straightening work shall *either* hold a current prequalification certification from the Department with a work type of 0050, steel bridge beam heat-straightening, ~~regardless of whether the value of the total work under contract from all sources is less than \$300,000~~ or be on the Department's ~~list~~ **OPL** of Steel Structural Member Repairers. The list is maintained on the Department's website.

COMMENTS AND ACTION

729.02 Prequalification Requirement

DISCUSSION:

This item was introduced and presented by Mr. Reilman who stated that a portion of 729.02 has been determined to possibly be in conflict with the Indiana Code.

Mr. Reilman proposed to modify 729.02 to remove the portion in question.

Mr. Wooden asked who will be responsible for maintaining the list? Mr. Reilman said it will be a combination of the folks at Materials and Test, and Bridge Design.

There was no further discussion, and this item passed as submitted.

<p>Motion: Mr. Reilman Second: Mr. White Ayes: 9 Nays: 0 FHWA Approval: YES</p>	<p><u>Action:</u></p> <p><input checked="" type="checkbox"/> Passed as Submitted <input type="checkbox"/> Passed as Revised <input type="checkbox"/> Withdrawn</p>
<p>2026 Standard Specifications Sections: 729.03 pg. 833.</p> <p>Recurring Special Provisions or Plan Details:</p> <p>NONE</p> <p>Standard Drawing affected: NONE</p> <p>Design Manual Chapter: NONE</p> <p>GIFE Section: NONE</p>	<p><input checked="" type="checkbox"/> 2028 Standard Specifications <input type="checkbox"/> Revise Pay Items List <input type="checkbox"/> Notification to Designers if change is <u>not</u> addressed by RSP</p> <p><input checked="" type="checkbox"/> Create RSP (No. <u>729-R-798</u>) Effective: <u>December 1, 2025</u></p> <p><input type="checkbox"/> Revise RSP (No. __) Effective:</p> <p><input type="checkbox"/> Standard Drawing Effective:</p> <p><input type="checkbox"/> Create RPD (No. __) Effective:</p> <p><input type="checkbox"/> GIFE Update <input checked="" type="checkbox"/> Frequency Manual Update <input type="checkbox"/> AWP Update</p>