



Iowa Department of Transportation

MINUTES OF IOWA DOT SPECIFICATION COMMITTEE MEETING

November 18, 2004

Members Present:	Tom Reis, Chair Donna Buchwald, Secretary Bruce Kuehl Gary Novey Roger Bierbaum Larry Jesse Jim Berger Doug McDonald	Specifications Section Office of Local Systems District 6 - Construction Office Office of Bridges & Structures Office of Contracts Office of Local Systems Office of Materials District 1 - Marshalltown RCE Office
Members Not Present:	John Adam, Director Keith Norris John Smythe Mike Kennerly Troy Jerman	Statewide Operations Bureau District 2 -Materials Office Office of Construction Office of Design Office of Traffic & Safety
Advisory Members Present:	Steve Akes	Warren County Engineer
Advisory Members Not Present:	Lisa Rold Jim Rost Bruce Brakke Larry Stevens	FHWA Office of Location & Environment Office of Bridges & Structures SUDAS
Others Present:	Tom Jacobson Will Stein	Office of Construction Office of Design

Tom Reis, Specifications Engineer, opened the meeting. The following items were discussed in accordance with the November 12, 2004 agenda:

1. Article 1105.14, Placement of Fill Material in Streams and Water Bodies

The Specifications Section requested changes to Article 1105.14 that would standardize construction details of stream crossings and clarify to the contractor when stream crossings are allowed.

2. Article 1107.12, Responsibility for Damage Claims

The Specifications Section and the General Counsel Division requested changes to Article 1107.12 to clarify the intent of the Standard Specifications with respect to third party beneficiaries.

3. Section 2115, Modified Subbase

The Office of Design requested a change to Section 2115 that would change the Method of Measurement and Basis of Payment for Modified Subbase to that of Granular Subbase.

4. Article 2403.23, Basis of Payment (Structural Concrete)

The Office of Construction requested a change to Article 2403.23 that would increase the amount paid for heating of concrete.

**5. Section 2505, Removal and Construction of Guardrail
Article 4155.03, Cable (Guardrail)**

The Office of Design requested changes to Section 2505 and Article 4155.03 that would clarify how Wire Rope Safety Barrier is measured and paid.

**6. Article 2506.02, G, Granular Backfill
Section 4109.02, Testing Sieves
Section 4133.01, Description (Granular Backfill Material)**

The Office of Materials requested changes to Articles 2506.02, 4109.02, and 4133.01 that would clarify the intent of the specifications for Flowable Mortar construction.

7. Article 2529.09, Placing Full Depth PCC Finish Patches

The Office of Construction requested changes to Article 2529.09 that would eliminate the need for sandblasting joints in patching.

SPECIFICATION REVISION SUBMITTAL FORM

Submitted by: Tom Reis		Office: Specifications		Item 1	
Submittal Date: October 25, 2004		Proposed Effective Date: April 19, 2005			
Article No.: 1105.14 Title: Placement of Fill Material in Streams and Water Bodies.		Other:			
Specification Committee Action:					
Deferred:	Not Approved:	Approved Date: 11-18-04		Effective Date: 4-19-05	
Specification Committee Approved Text:					
1105.14, Placement of Fill Material in Streams and Water Bodies.					
<p>Replace the fourth paragraph: For Interstate and Primary projects, the use of At the Contractor's option, stream crossings and causeways will be may be constructed, unless otherwise indicated in the Clean Water Act Section 404 Permit cover letter included in the proposal form. On Interstate and Primary projects, temporary stream crossings and causeways shall be constructed in accordance with the Standard Road Plan RL-16. Temporary stream crossings or causeways shall be bridged or culverted to not restrict expected high flows or disrupt the movement of aquatic life native to the stream or water body. They shall not extend over 100 feet (30 m) into any swamp, bog, marsh, or similar area that is adjacent to the stream or water body. Expected high flows are those flows which the Contractor expects to experience during the period of time that the crossing is in place. They shall maintain pre-construction downstream flow conditions. Contractors are encouraged to construct these during low flows. They shall be maintained to prevent unnecessary erosion and other non-point sources of pollution. When no longer needed, they shall be removed and all disturbed areas shall be reshaped and stabilized. The cost for constructing temporary stream crossings or causeways will not be paid for separately and shall be considered incidental to the contract price for Mobilization.</p>					
<p>Comments: The Specification Committee had concerns about referencing a Standard Road Plan in the Specification Book. The Office of Design requested this reference in the Specification Book to eliminate the need for designers to reference Standard Road Plan RL-16 on every set of plans.</p> <p>The Specification Committee discussed the timeline of the Clean Water Act Section 404 Permit and how it pertains to the use of Standard Road Plan RL-16. The Office of Location and Environment knows when the RL-16 is going to be allowed and when it is not. The most recent change to Article 1105.14 incorporated the language that the Permit cover letter would state if the RL-16 could or could not be used. On Interstate and Primary projects the Permit cover letter is not always available before the plan turn-in date, therefore, the designers do not know if the RL-16 should be referenced in the plans or not. The Permit cover letter is attached to the proposal for the contractors' information.</p> <p>On local agency projects the Permit is not always obtained in time for the plan turn-in date. The local agencies do not usually use the RL-16 because of its complexity. They allow the contractors to install any thing in the area as long as it is clean and meets the siltation requirements.</p>					
Specification Section Recommended Text:					
1105.14, Placement of Fill Material in Streams and Water Bodies.					
<p>Replace the fourth paragraph: For At the Contractor's option, on Interstate and Primary projects, the use of stream crossings and causeways will be indicated in the Clean Water Act Section 404 Permit cover letter included in the</p>					

~~proposal form.~~ may be constructed. Temporary stream crossings and causeways shall be constructed in accordance with the Standard Road Plan RL-16. Temporary stream crossings or causeways shall be bridged or culverted to not restrict expected high flows or disrupt the movement of aquatic life native to the stream or water body. They shall not extend over 100 feet (30 m) into any swamp, bog, marsh, or similar area that is adjacent to the stream or water body. Expected high flows are those flows which the Contractor expects to experience during the period of time that the crossing is in place. They shall maintain pre-construction downstream flow conditions. Contractors are encouraged to construct these during low flows. They shall be maintained to prevent unnecessary erosion and other non-point sources of pollution. When no longer needed, they shall be removed and all disturbed areas shall be reshaped and stabilized. The cost for constructing temporary stream crossings or causeways will not be paid for separately and shall be considered incidental to the contract price for Mobilization.

Comments: To standardize construction details of stream crossings and clarify to the contractor when they are allowed.

Member's Requested Change (DO NOT USE "TRACK CHANGES," use Strikeout/Highlight):

1105.14 PLACEMENT OF FILL MATERIAL IN STREAMS AND WATER BODIES.

The placement of fill material in streams is regulated by Federal and State law. The intent of this specification is to require the Contractor's operations in streams and other water bodies and adjacent swamps, marshes, bogs, or similar areas to be in compliance with Federal and State regulations.

Fill material means any material used for the primary purpose of replacing an aquatic area with dry land or of changing the bottom elevation of a water body.

Fill material shall consist of clean, suitable, naturally occurring material, which is free from unacceptable levels of toxic pollutants.

~~At the Contractor's option, For on~~ Interstate and Primary projects, ~~the use of~~ stream crossings and causeways may be constructed. Temporary stream crossings and causeways shall be constructed in accordance with the Standard Road Plan RL-16. ~~will be indicated in the Clean Water Act Section 404 Permit cover letter included in the proposal form.~~ Temporary stream crossings or causeways shall be bridged or culverted to not restrict expected high flows or disrupt the movement of aquatic life native to the stream or water body. They shall not extend over 100 feet (30 m) into any swamp, bog, marsh, or similar area that is adjacent to the stream or water body. Expected high flows are those flows which the Contractor expects to experience during the period of time that the crossing is in place. They shall maintain pre-construction downstream flow conditions. Contractors are encouraged to construct these during low flows. They shall be maintained to prevent unnecessary erosion and other non-point sources of pollution. When no longer needed, they shall be removed and all disturbed areas shall be reshaped and stabilized. The cost for constructing temporary stream crossings or causeways will not be paid for separately and shall be considered incidental to the contract price for Mobilization.

Reason for Revision:

County or City Input Needed (X one)	Yes	No
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Comments:

Industry Input Needed (X one)	Yes	No
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Industry Notified:	Yes	No	Industry Concurrence:	Yes	No
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Comments:

SPECIFICATION REVISION SUBMITTAL FORM

Submitted by: Tom Reis/Mark Hunacek	Office: Specifications/General Counsel Division	Item 2
Submittal Date: October 8, 2004	Proposed Effective Date: April 19, 2004	
Article No.: 1107.12 Title: Responsibility for Damage Claims	Other:	

Specification Committee Action:

Deferred:	Not Approved:	Approved Date: 11-18-04	Effective Date: 4-19-05
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Specification Committee Approved Text:

1107.12, Responsibility for Damage Claims.

Replace the entire article:

The Contractor shall indemnify and save harmless the Contracting Authority and other agencies which have concurred in the award of contract, their officers and employees, from all suits, actions, or claims of any character brought because of any injuries or damage received or sustained by any person, persons, or property because of any act, omission, or neglect in safeguarding or performing the work, or through use of unacceptable materials in constructing the work; and so much of the money due the said Contractor under and by virtue of the Contractor's contract as may be considered reasonable and necessary by the Contracting Authority for such purpose may be retained for the use of the State; or in case no money is due, the Contractor's surety may be held until such suit or suits, action or actions, claim or claims for injuries or damages as aforesaid shall have been settled and suitable evidence to that effect furnished to the Contracting Authority; except that money due the Contractor will not be withheld when the Contractor produces satisfactory evidence of ownership of adequate public liability and property damage insurance. Notwithstanding the above, it is specifically agreed between the parties executing this contract that it is not intended by any of the provisions of any part of the contract documents to create in the public or any member thereof a third party beneficiary hereunder, or to authorize anyone not a party to this contract to maintain a suit for personal injuries or property damage pursuant to the terms or provisions of this contract. The duties, obligations, and responsibilities of the parties to this contract with respect to third parties shall remain as imposed by law. It being the intention of the parties that indemnity herein provided shall not extend to acts or omissions of negligence for which the Contracting Authority is solely responsible. But indemnity shall extend to all claims in which the Contractor, Subcontractor, or either's employee and the Contracting Authority are alleged to be, or could be, in the absence of an immunity provision in the Workers' Compensation Act, either jointly or concurrently negligent for the injury or damage.

It is understood that no subcontractor is a third party beneficiary to any contract between the Contracting Authority and the Contractor. Nothing in any special provision or any supplemental specification shall be construed as eliminating or superseding the requirements of this section.

The parties agree that it is their intent that there be no third-party beneficiaries to this contract. No provision of this contract; or of any addendum, plan, proposal, special provision, developmental specification, supplemental specification, or general supplemental specification; shall be construed as creating any third-party beneficiaries.

The Contractor shall indemnify and save harmless the Contracting Authority and other agencies which have concurred in the award of the contract, as well as their officers and employees, from all suits, actions, or claims of any character, except as provided in the next sentence. Indemnity

shall not, however, extend to acts or omissions for which the Contracting Authority is solely responsible, though it shall extend to those claims, actions, or suits in which the Contractor, Subcontractor, or either's employee or agent, and the Contracting Authority are alleged to be, or could be, jointly or concurrently liable. Any funds due said Contractor under the Contractor's contract as may be considered reasonable and necessary by the Contracting Authority for such purpose may be retained for the use of the Contracting Authority; in case no money is due, the Contractor's surety may be held until such suit or suits, action or actions, claim or claims have been settled and suitable evidence to that effect furnished to the Contracting Authority, except that money due the Contractor will not be withheld when the Contractor produces satisfactory evidence of insurance covering the claim, action, or suit.

~~Responsibility of t~~The Contractor's responsibility for providing warning devices required by Article 1107.09 to avoid damages or injuries to the traveling public on any portion of the road covered by the contract shall not cease until the work on such portion has been released by the Engineer. A "release" shall be construed to mean in this context means a written statement by the Engineer to the effect stating that the Contractor may cease to maintain barriers and lights, that the road may be opened to traffic, and that the Contractor is relieved of further maintenance of that portion of the road. This release shall not constitute an acceptance of the work.

The Contractor's responsibility for maintenance of lights on any individual structure will cease when, and only when, the Engineer has issued a written release to that effect or there has been final acceptance of the structure.

Comments: The Specification Committee had concerns about the phrase "or of any Special Provision, Developmental Specification, or Supplemental Specification," in the first paragraph not being all-inclusive.

Specification Section Recommended Text:

1107.12, Responsibility for Damage Claims.

Replace the entire article:

The Contractor shall indemnify and save harmless the Contracting Authority and other agencies which have concurred in the award of contract, their officers and employees, from all suits, actions, or claims of any character brought because of any injuries or damage received or sustained by any person, persons, or property because of any act, omission, or neglect in safeguarding or performing the work, or through use of unacceptable materials in constructing the work; and so much of the money due the said Contractor under and by virtue of the Contractor's contract as may be considered reasonable and necessary by the Contracting Authority for such purpose may be retained for the use of the State; or in case no money is due, the Contractor's surety may be held until such suit or suits, action or actions, claim or claims for injuries or damages as aforesaid shall have been settled and suitable evidence to that effect furnished to the Contracting Authority; except that money due the Contractor will not be withheld when the Contractor produces satisfactory evidence of ownership of adequate public liability and property damage insurance. Notwithstanding the above, it is specifically agreed between the parties executing this contract that it is not intended by any of the provisions of any part of the contract documents to create in the public or any member thereof a third party beneficiary hereunder, or to authorize anyone not a party to this contract to maintain a suit for personal injuries or property damage pursuant to the terms or provisions of this contract. The duties, obligations, and responsibilities of the parties to this contract with respect to third parties shall remain as imposed by law. It being the intention of the parties that indemnity herein provided shall not extend to acts or omissions of negligence for which the Contracting Authority is solely responsible. But indemnity shall extend to all claims in which the Contractor, Subcontractor, or either's employee and the Contracting Authority are alleged to be, or could be, in the absence of an immunity provision in the Workers' Compensation Act, either jointly or concurrently negligent for the injury or damage.

It is understood that no subcontractor is a third party beneficiary to any contract between the Contracting Authority and the Contractor. Nothing in any special provision or any supplemental

~~specification shall be construed as eliminating or superseding the requirements of this section.~~

The parties agree that it is their intent that there be no third-party beneficiaries to this contract. No provision of this contract, or of any Special Provision, Developmental Specification, or Supplemental Specification, shall be construed as creating any third-party beneficiaries.

The Contractor shall indemnify and save harmless the Contracting Authority and other agencies which have concurred in the award of the contract, as well as their officers and employees, from all suits, actions, or claims of any character, except as provided in the next sentence. Indemnity shall not, however, extend to acts or missions for which the Contracting Authority is solely responsible, though it shall extend to those claims, actions, or suits in which the Contractor, Subcontractor, or either's employee or agent, and the Contracting Authority are alleged to be, or could be, jointly or concurrently liable. Any funds due said Contractor under the Contractor's contract as may be considered reasonable and necessary by the Contracting Authority for such purpose may be retained for the use of the state; in case no money is due, the Contractor's surety may be held until such suit or suits, action or actions, claim or claims have been settled and suitable evidence to that effect furnished to the Contracting Authority, except that money due the Contractor will not be withheld when the Contractor produces satisfactory evidence of insurance covering the claim, action, or suit.

~~Responsibility of t~~The Contractor's responsibility for providing warning devices required by Article 1107.09 to avoid damages or injuries to the traveling public on any portion of the road covered by the contract shall not cease until the work on such portion has been released by the Engineer. A "release" ~~shall be construed to mean in this context means~~ a written statement by the Engineer ~~to the effect stating~~ that the Contractor may cease to maintain barriers and lights, that the road may be opened to traffic, and that the Contractor is relieved of further maintenance of that portion of the road. This release shall not constitute an acceptance of the work.

The Contractor's responsibility for maintenance of lights on any individual structure will cease when, and only when, the Engineer has issued a written release to that effect or there has been final acceptance of the structure.

Comments: To clarify the intent of the Standard Specifications in respect to third party beneficiaries.

Member's Requested Change (DO NOT USE "TRACK CHANGES," use Strikeout/Highlight):

Reason for Revision:

County or City Input Needed (X one)	Yes	No
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Comments:

Industry Input Needed (X one)	Yes	No
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Industry Notified:	Yes	No	Industry Concurrence:	Yes	No
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Comments:

SPECIFICATION REVISION SUBMITTAL FORM

Submitted by: Mike Kennerly/Will Stein		Office: Design	Item 3
Submittal Date: November 8, 2004		Proposed Effective Date: April 19, 2005	
Article No.: 2115.05, 2115.06 Title: Modified Subbase		Other:	
Specification Committee Action:			
Deferred: X	Not Approved:	Approved Date:	Effective Date:
Specification Committee Approved Text:			
<p>Comments: The Office of Contracts gave the history on why granular subbase is bid by area rather than weight. About 10 years ago a group was trying to make things easier for inspectors and keep them from collecting scale ticket. Contractors were also putting in wider granular subbases for their hauling equipment and the Contracting Authority had to keep track of the tickets for this extra material.</p> <p>The change to area measurement was made because the contractor trims the bottom and top of the granular subbase, therefore the contractor controls the volume.</p> <p>The Office of Contracts stated if modified subbase is changed to an area measurement, the designers will have to separate out the different depths and there will have to be several different bid items because of the many different depths. This will have to be done so the material can be bid. This change will create work for the contractors, as they will all have to calculate the volume, instead of only one designer calculating it.</p> <p>The Office of Design will reconsider this topic.</p>			
Specification Section Recommended Text:			
2115.05, Method of Measurement.			
<p>Replace the entire article. The quantity of Modified Subbase for which payment will be made, will be the quantity shown in the contract documents. The quantity of Modified Subbase, in square yards (square meters), will be the quantity shown on the contract documents. The measured area will note include fillets.</p>			
2115.06, Basis of Payment.			
<p>Replace the words "cubic yard (cubic meter)" with "square yard (square meter)" in the first sentence of the first paragraph.</p> <p>Add as the third and fourth sentences of the first paragraph: The contract will have a separate item for Modified Subbase, Place Only, in cubic yards (m³) square yards (square meters), when the Contracting Authority is providing the material or if the material is available from mandatory crushing on the contract. The cost of crushing should be included in the Contractor's price for modified subbase if recycling is not required but the Contractor chooses to crush the pavement removed for modified subbase.</p>			
<p>Comments: It is recommended that the sentence "The thickness will be verified by spot check." be included in the Construction Manual, if it currently is not.</p>			
Member's Requested Change (DO NOT USE "TRACK CHANGES," use Strikeout/Highlight):			

2115.05 METHOD OF MEASUREMENT.

~~The quantity of Modified Subbase for which payment will be made, will be the quantity shown in the contract documents.~~

Modified subbase will be measured in square yards (meters) for the thickness shown in the contract documents. The thickness will be verified by spot checks. The measured area will not include fillets.

2115.06 BASIS OF PAYMENT.

Modified Subbase will be paid for at the contract price per square yard (square meter) ~~cubic yard (cubic meter)~~. This payment shall be full compensation for furnishing all materials, water, preparation of subgrade, and for all work necessary to complete the modified subbase in compliance with contract documents. The contract will have a separate item for Modified Subbase, Place Only, in square yards (square meters) ~~cubic yards (m³)~~, when the Contracting Authority is providing the material or if the material is available from mandatory crushing on the contract. The cost of crushing should be included in the Contractor's price for modified subbase if recycling is not required but the Contractor chooses to crush the pavement removed for modified subbase.

Excavation or filling in excess of 3 inches (75 mm) for preparation of subgrade at locations other than structures or existing pavements will be paid for according to [Article 2102.14](#); or if no contract unit price is provided it will be paid as extra work in accordance with [Article 1109.03, B](#), except where grading is a part of the contract.

Correction of subgrade after proof rolling will be paid as extra work in accordance with [Article 1109.03, B](#), except where grading is a part of the contract.

Reason for Revision: Measure and pay for Modified Subbase the same way as Granular Subbase. This will be more simple and consistent.

County or City Input Needed (X one)			Yes	No X	
Comments:					
Industry Input Needed (X one)			<u>Yes</u> Possibly. Need Construction's opinion.	<u>No</u>	
Industry Notified:	Yes	No	Industry Concurrence:	Yes	No
Comments:					

SPECIFICATION REVISION SUBMITTAL FORM

Submitted by: John Smythe/Wayne A. Sunday		Office: Construction		Item 4	
Submittal Date: October 6, 2004			Proposed Effective Date: April 19, 2005		
Article No.: 2403.23 Title: Basis of Payment			Other:		
Specification Committee Action:					
Deferred:		Not Approved:		Approved Date: 11-18-04	
				Effective Date: 4-19-05	
Specification Committee Approved Text: See Specification Section Recommended Text.					
Comments: No comments.					
Specification Section Recommended Text:					
2403.23, Basis of Payment. Replace "\$4.00" and "\$5.25" with "\$5.00" and "\$6.60", respectively, in the third paragraph.					
Comments: The AGCI has responded with the following information from their contractor members concerning what rates are being charged: United Contractors, \$4.00-\$4.50; Gus Construction, \$4.00-\$6.00; Taylor Construction, \$5.00; A.M. Cohron, \$4.50-\$6.00; Graves Construction, \$4.00-\$5.00; Dormark Construction, \$3.00-\$8.00; Cramer & Associates, \$5.00. The AGCI had only one supplier member respond: Manatt's, contemplating increasing to \$5.00.					
Member's Requested Change (Redline/Strikeout):					
<u>Modify the third paragraph of Article 2403.23 as follows:</u> Payment for heating will be made when materials which are proportioned and mixed at the site are heated to meet requirements of Article 2403.11 , or when heating is charged by the supplier of ready mixed concrete. For concrete proportioned and mixed at the site, the additional payment for heating will be \$4.00 per cubic yard (\$5.25 per cubic meter). \$5.00 per cubic yard (\$6.60 per cubic meter). For ready mixed concrete, the additional payment for heating will be the customary amount charged for heating, and separately identified on the invoice, with a maximum of \$4.00 per cubic yard (\$5.25 per cubic meter). \$5.00 per cubic yard (\$6.60 per cubic meter). Heating, protection, or both, required outside the above dates, will be paid for when approved by the Engineer.					
Reason for Revision: During the June 28, 2004 Iowa Dot/AGC Joint Specification Meeting the industry requested a specification change to increase the compensation for concrete materials used in structural concrete. The last time a change was made in the compensation for heating concrete materials was over 20 years ago. Considering the increase in energy costs during the past 20 years it is reasonable to increase the compensation for heating of concrete materials for structural concrete.					
County or City Input Needed (X one)			Yes		No X
Comments:					
Industry Input Needed (X one)			Yes		No X
Industry Notified:		Yes	No	Industry Concurrence:	
				Yes	No
Comments: This was discussed with the industry at the June 28, 2004 Iowa DOT/AGC Joint Specification Meeting.					

SPECIFICATION REVISION SUBMITTAL FORM

Submitted by: Mike Kennerly/Will Stein		Office: Design	Item 5
Submittal Date: October 28, 2004		Proposed Effective Date: April 19, 2004	
Section No.: 2505 - Removal and Construction of Guardrail 4155.03 - Cable		Other:	
Specification Committee Action:			
Deferred:	Not Approved:	Approved Date: 11-18-04	Effective Date: 4-19-05
Specification Committee Approved Text:			
Change to second paragraph of Article 2505.03, B, 2, b, Wire Rope Safety Barrier from the October 14, 2004, Specification Committee meeting.			
<p style="background-color: yellow;">At least one turnbuckle per 1000 foot (300 meters) strand shall be included to allow for tensioning of the cables. For installations less than 1000 feet (300 meters) in length, one turnbuckle per strand shall be included near the center of the installation to allow for tensioning of the cables.</p>			
Comments: After re-discussing the pros and cons of separate bid items for cable guardrail end anchorages, the Specification Committee again agreed to keep the end anchorages separate from the railing.			
The Specification Committee did agree to clarify the turnbuckle installation on wire rope safety barrier in addition to the October 14, 2004, changes.			
Specification Section Recommended Text: Specification Committee Approved Text, Item 11, October 14, 2004, Specification Committee meeting.			
Comments: This topic was discussed at the October 14, 2004, Specification Committee meeting. The Committee agreed to have the end anchorages paid for separately for consistency with the other guardrails.			
Member's Requested Change (DO NOT USE "TRACK CHANGES," use Strikeout/Highlight):			
2505.03, B, 2, Guardrail Cable			
Replace entire article:			
a. Three Cable Guardrail.			
Three cables shall be attached to the posts and end anchorages in accordance with the contract documents. Compensation devices and turnbuckles shall be attached in such a manner as to not cause any interference with the function of any part of the installation. Cables shall be attached to the posts by means of an approved hook bolt or other means when specified in the contract documents.			
Individual cables may be spliced by use of an approved device installed where no interference with any other function will occur. One splice will be allowed per cable. Cable may not be spliced within 250 feet (75 m) of another splice.			
Tightening of individual cables shall be accomplished by mechanical means. Cables shall be stretched tight so that no sags occur between posts and so that, in the opinion of the Engineer, the finished installation presents a satisfactory appearance.			

b. Wire Rope Safety Barrier.

The Contractor shall install wire rope safety barrier according to the manufacturer's recommendations. The barrier shall be tensioned according to the manufacturer's recommendations at the time of installation and then checked and adjusted approximately 3 weeks after installation.

For installations less than 1000 feet (300 meters) in length, one turnbuckle per strand shall be included near the center of the installation to allow for tensioning of the cables.

2505.06 METHOD OF MEASUREMENT

Add paragraph at the end:

E. Wire Rope Safety Barrier

The quantity of wire rope safety barrier shall be from end anchor to end anchor.

2505.07 BASIS OF PAYMENT

Add paragraph at the end:

E. Wire Rope Safety Barrier

The contractor shall be paid the contract unit price per linear foot (meter) as measured above. This payment shall be considered full compensation for furnishing the required materials and constructing the Wire Rope Safety Barrier, including end anchors and concrete post foundations.

4155.03, Cable

Add a new second paragraph:

Wire Rope Safety Barrier shall meet the manufacturers requirements.

Reason for Revision: This revision was discussed at the October 2004 meeting. Further clarification was needed for method of measurement/basis of payment. Note that we are including end anchors with the wire rope safety barrier item. We do not see the need at this time to bid the anchors separately. For regular cable guardrail the anchors are bid separately, which is an inconsistency that should be discussed.

County or City Input Needed (X one)			Yes	No X	
Comments:					
Industry Input Needed (X one)			Yes	No X	
Industry Notified:	Yes	No	Industry Concurrence:	Yes	No
Comments:					

SPECIFICATION REVISION SUBMITTAL FORM

Submitted by: Jim Berger and Keith Norris	Office: Materials	Item 6
Submittal Date: November 3, 2004	Proposed Effective Date: April 19, 2005	
Article No.: 2506.02, G - Granular Backfill 4109.02 - Testing Sieves 4133.01 - Description	Other:	

Specification Committee Action:

Deferred:	Not Approved:	Approved Date: 11-18-04	Effective Date: 4-19-05
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Specification Committee Approved Text:

2506.02, G, Granular Backfill.

Replace the entire article:

Granular Backfill shall meet the gradation requirements of Section 4110, except the percent passing the No. 200 (75 µm) sieve shall not exceed 4.0%, or granular backfill shall meet the gradation requirements of Section 4124. Granular backfill for use under flowable mortar shall meet the requirements of Section 4133.

2506.06, Placement of Mortar as Culvert Backfill.

Delete the change to the first sentence in the third paragraph made effective in GS-01007.

Replace "Section 4133" with "Article 2506.02, G," in the first sentence of the third paragraph.

4109.02, Testing Sieves.

Replace Note 9 of the Aggregate Gradation Tables:

9. For floodable applications and use under flowable mortar, natural sand and gravel with 100% passing the 1.5" (37.5 mm) screen; 20-90% passing the No. 8 (2.36 mm) sieve; and 0-4% passing the No. 200 (75 µm) sieve shall be used. If the material passing the No. 200 (75 µm) sieve is less than 2%, the percent passing the No. 8 (2.36 mm) sieve may be 100%. Granular backfill for use under flowable mortar or in floodable applications shall meet the requirements of Section 4133.

4133.01 Description.

Replace the 1st paragraph:

Granular backfill shall be composed of sand, gravel, or crushed stone. Granular Backfill shall meet one of the following requirements for each specific use. Gradation requirements shall meet either the indicated gradation number of the Aggregate Gradation Table of Article 4109.02 or other gradations described as follows:

A. Flowable Mortar.

For use under flowable mortar, one of the following materials shall be used: natural sand complying with Gradation No. 1, with the exception of allowing a maximum of 4% passing the No. 200 (75 µm) sieve; material complying with Gradation No. 12; or material complying with the requirements for use in floodable applications described below.

B. Floodable Applications.

For floodable applications one of the following material shall be used: natural sand and gravel with 100% passing the 1.5 inch (37.5 mm) sieve, 20-90% passing the No. 8 (2.36 mm) sieve, and 0-4% passing the No. 200 (75 µm) sieve; or natural sand with 100% passing the No. 8 (2.36 mm) sieve and a maximum of 2% passing the No. 200 (75 µm) sieve.

C. Other Applications.

For all other applications requiring granular backfill, material shall be composed of particles passing the No. 8 (2.36 mm) sieve or these particles in combination with coarser particles passing the 3 inch (75 mm) sieve with fine particles predominating so that voids between coarse particles are not likely to occur. This is described as Gradation No. 32 of the Aggregate Gradation Table reference in Section 4109.

Comments: The Specification Committee asked that the entry for Article 2506.06, Placement of Mortar as Culvert Backfill, in the General Supplemental be deleted. There is a reference in Article 2506.06 to Article 2506.02, G; and Article 2506.02, G, references Article 4133; therefore, the Specification Committee asked that Article 2506.06 be changed back to its original text and reference directly back to Article 4133.

The Specification Committee also asked that Article 4133.01 be reworded and possibly incorporated with Article 4109.02, to eliminate some confusion and the need to go to two articles for information.

Specification Section Recommended Text:

2506.02, G, Granular Backfill.

Replace the entire article:

Granular Backfill shall meet the gradation requirements of Section 4110, except the percent passing the No. 200 (75µm) sieve shall not exceed 4.0%, or granular backfill shall meet the gradation requirements of Section 4121. Granular backfill for use under flowable mortar shall meet the requirements of Section 4133.

4109.02, Testing Sieves.

Replace Note 9 of the Aggregate Gradation Tables:

For floodable applications and use under flowable mortar, use natural sand and gravel with 100% passing the 1.5 " (37.5 mm) screen, 20-90% passing the No. 8 sieve, and 0-4% passing the No 200 (75µm) sieve is less than 2%, the percent passing the No. 8 sieve may be 100%. ; or natural sand with 100% passing the No. 8 (2.36 mm) sieve and a maximum of 2% passing the No. 200 (75 µm) sieve.

4133.01, Description.

Add as new third paragraph:

For use under flowable mortar use natural sand complying with Gradation No.1 of the Aggregate Gradation Table in Article 4109.02 with the exception of allowing a maximum of 4% passing the No. 200 (75 µm) sieve; material complying with Gradation No.12 of the Aggregate Gradation Table in Article 4109.02; or material complying with the requirements for use in floodable applications described of the Aggregate Gradation Table, Note 9, in Article 4109.02.

Comments:

Member's Requested Change (DO NOT USE "TRACK CHANGES," use Strikeout/Highlight):

2506.02 MATERIALS G Granular Backfill.

~~Granular Backfill shall meet the gradation requirements of Section 4110, except the percent passing the No. 200 (75µm) sieve shall not exceed 4.0%, or granular backfill shall meet the gradation requirements of Section 4124.~~

Granular backfill for use under flowable mortar shall meet the requirements of Section 4133.

4109 Aggregate Gradation Table Note 9.

9. For floodable applications one of the following materials shall be used, and use under flowable mortar, natural sand and gravel with 100% passing the 1.5 " (37.5 mm) screen, 20-90% passing the No. 8 sieve, and 0-4% passing the No 200 (75µm) sieve or is less than 2%, the percent passing the No. 8 sieve may be 100%; natural sand with 100 percent passing the No. 8 (2.36 mm) sieve and a maximum of 2 percent passing the No. 200 (75 µm) sieve.

Section 4133 Granular Backfill

Add as 3rd paragraph

For use under flowable mortar, one of the following materials shall be used: Natural sand complying with Gradation No.1 with the exception of allowing a maximum of 4 percent passing the No. 200 sieve; material complying with Gradation No.12; material complying with the requirements for use in floodable applications described in 4109 , Aggregate Gradation Table, note 9.

Reason for Revision: Information in GS 01007 revising note 9 in the Aggregate Gradation Table of Section 4109 describing Granular Backfill material for use in floodable applications was incomplete.

For Flowable Mortar, Section 2506, this proposed revision provides a reference to Section 4133 Granular Backfill, in a manner similar to other construction specifications referring to 4100 series materials specifications.

Gradation information is included in Section 4133 for Flowable Mortar applications.

The proposed revision corrects the information in GS 01007 for Granular Backfill for floodable applications.

County or City Input Needed (X one)			Yes		No	
Comments:						
Industry Input Needed (X one)			Yes		No	
Industry Notified:	Yes	No	Industry Concurrence:	Yes	No	
Comments:						

SPECIFICATION REVISION SUBMITTAL FORM

Submitted by: John Smythe/Kevin Merryman		Office: Construction		Item 7	
Submittal Date: October 13, 2004			Proposed Effective Date: April 19, 2005		
Article No.: 2529.09 Title: Placing Full Depth PCC Finish Patches			Other:		
Specification Committee Action:					
Deferred:		Not Approved:		Approved Date: 11-18-04	
				Effective Date: 4-19-05	
Specification Committee Approved Text:					
2529.09, Placing Full Depth Portland Cement Concrete Finish Patches.					
Replace the last paragraph: For patches finished flush with the adjacent pavement, and not to be covered with HMA, C and CD joints and the edged reservoir formed by edging or sawing shall be sandblasted, cleaned with air blast, and sealed in accordance with Article 2301.25 , except sand cleaning will not be required.					
Comments: Patch joints must be at least 3/8 inch. The change to Article 2529.09 is to eliminate the requirement for blasting patch joints, but Article 2529.09 references Article 2301.25, which requires blasting of joints over 3/8 inch. The Specification Committee asked that the text in Article 2529.09 state this as an exception to Article 2301.25.					
Specification Section Recommended Text:					
2529.09, Placing Full Depth Portland Cement Concrete Finish Patches.					
Replace the last paragraph: For patches finished flush with the adjacent pavement, and not to be covered with HMA, C and CD joints and the edged reservoir formed by edging or sawing shall be sandblasted, cleaned with air blast, and sealed in accordance with Article 2301.25 .					
Comments:					
Member's Requested Change (Redline/Strikeout):					
2529.09 PLACING FULL DEPTH PORTLAND CEMENT CONCRETE FINISH PATCHES. For patches finished flush with the adjacent pavement, and not to be covered with HMA, C and CD joints and the edged reservoir formed by edging or sawing shall be sandblasted, cleaned with air blast, and sealed in accordance with Article 2301.25 .					
Reason for Revision: Sandblasting is no longer required for joints in patching. Article 2301.25 includes requirements for air blasting so the language is not necessary in this article.					
County or City Input Needed (X one)			Yes		No X
Comments:					
Industry Input Needed (X one)			Yes		No X
Industry Notified:		Yes	No X	Industry Concurrence:	
				Yes	No
Comments:					