



Iowa Department of Transportation

MINUTES OF IOWA D.O.T. SPECIFICATION COMMITTEE MEETING

August 11, 2011

Members Present:	Jim Berger Roger Bierbaum Donna Buchwald Gary Novey Tom Reis, Chair John Smythe Willy Sorensen	Office of Materials Office of Contracts Office of Local Systems Office of Bridges & Structures Specifications Section Office of Construction Office of Traffic & Safety
Members Not Present:	Eric Johnsen, Secretary Bruce Kuehl Deanna Maifield Doug McDonald Dan Redmond John Selmer	Specifications Section District 6 - Construction Office of Design District 1 - Marshalltown RCE District 4 - Materials Statewide Operations Bureau
Advisory Members Present:	Jerry Roche	FHWA
Others Present:	Dan Harness Emily Whaley	Design Specifications Section

Tom Reis, Specifications Engineer, opened the meeting. The following items were discussed in accordance with the agenda dated August 4, 2011:

1. Article 1101.03, Definitions.

The Office of Contracts requested changes to revise the definition of "Resident Bidder".

2. Article 1103.05, Requirement of Contract Bond.

The Office of Contracts requested changes to the requirements for submitting a Contract bond.

3. Article 4112.02, A, Intermediate Aggregate.

The Office of Materials requested changes to the gradation for intermediate aggregate.

**4. Article 4134.02, Gradation (Floodable Backfill Material).
Appendix.**

The Office of Materials requested changes to allow Gradation no. 1 to be used for floodable backfill material.

5. Article 4162.05, Stress Grade Timber and Lumber.

The Specifications Section requested changes to clarify some notes regarding untreated timber and lumber.

6. Appendix, Aggregate Gradation Table.

The Office of Materials requested changes to clarify the gradation for crushed limestone or dolomite used in concrete production.

7. DS-090XX, On-Call Contracting for Median Cable Guardrail Repair.

The Office of Contracts requested approval of a Developmental Specification for On-Call Contracting for Median Cable Guardrail Repair.

SPECIFICATION REVISION SUBMITTAL FORM

Submitted by: Roger Bierbaum		Office: Contracts		Item 1	
Submittal Date: July 6, 2011		Proposed Effective Date: April 2012 GS			
Article No.: 1101.03		Other:			
Title: Definitions					
Specification Committee Action: Approved as recommended.					
Deferred:	Not Approved:	Approved Date: 08/11/2011	Effective Date: 4/17/2012		
Specification Committee Approved Text: See Specification Section recommended text.					
Comments: This language was included in a legislative bill and has been signed by the governor recently. There may be minor changes necessary to this specification due to the administrative rules being developed the Labor Commissioner.					
Specification Section Recommended Text:					
1101.03, Definition of Terms.					
Replace the definition of Resident Bidder:					
Resident Bidder.					
A person, corporation, partnership, or firm authorized to transact business in this State and having a place of business for transacting business within the State at which it is and has conducted business for at least 6 months prior to the first advertisement for the public improvement and, in the case of a corporation, at least 50% of the common stock or other forms of ownership is owned by residents of this State.					
A person or entity authorized to transact business in this state and having a place of business for transacting business within the state at which it is conducting and has conducted business for at least three years prior to the date of the first advertisement for the public improvement.					
Comments:					
Member's Requested Change: (Do not use 'Track Changes', or 'Mark-Up'. Use Strikeout and Highlight.)					
Resident Bidder – A person, corporation, partnership, or firm authorized to transact business in this State and having a place of business for transacting business within the State at which it is and has conducted business for at least 6 months prior to the first advertisement for the public improvement and, in the case of a corporation, at least 50% of the common stock or other forms of ownership is owned by residents of this State.					
Resident Bidder - A person or entity authorized to transact business in this state and having a place of business for transacting business within the state at which it is conducting and has conducted business for at least three years prior to the date of the first advertisement for the public improvement.					
Reason for Revision: New law which goes into effect September 1, 2011. New definition was copied from the law.					
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: Roger Bierbaum		Office: Contracts		Item 2	
Submittal Date: July 6, 2011		Proposed Effective Date: April 2012 GS			
Article No.: 1103.05		Other:			
Title: Requirement of Contract Bond					
Specification Committee Action: Approved as recommended.					
Deferred:	Not Approved:	Approved Date: 08/11/2011	Effective Date: 04/17/2012		
Specification Committee Approved Text: See Specification Section recommended text.					
Comments: Currently contractors have to submit the bond form in quadruplicate. There are currently two forms; one for the Department and one for counties. This change will result in one form for all contracts. The form has been reviewed and approved by the Department's legal counsel. The forms will be made available on the Department's website.					
Specification Section Recommended Text:					
1103.05, Requirement of Contract Bond.					
Replace the second sentence of the Article:					
One copy of the the bond shall be executed in quadruplicate on the standard form of the Contracting Authority Department, and shall be submitted with the signed contract.					
Comments:					
Member's Requested Change: (Do not use 'Track Changes', or 'Mark-Up'. Use Strikeout and Highlight.)					
1103.05 REQUIREMENT OF CONTRACT BOND.					
On all contracts, the Contractor shall file an acceptable bond in an amount not less than 100% of the contract sum with the Contracting Authority; however, the amount of the contract bond does not need to include the predetermined costs for incentives or bonuses shown on the contract. One copy of the The bond shall be executed in quadruplicate on the standard form of the Department and shall be submitted with the signed contract. Contracting Authority . This bond shall be held to cover all work included in the contract, whether performed by the Contractor or under a subcontract or assignment. The bond shall be executed by the Contractor and by a surety company authorized to do business in the State of Iowa. The Contractor shall not begin work on any contract before being notified, in writing, that the required bond has been approved and accepted, or until the signed contract is returned.					
Reason for Revision: Remove the requirements for the bond to be submitted in quadruplicate and to require the use of the DOT standard form on all contracts let by the Department					
County or City Input Needed (X one)		Yes		No	
Comments:					
Industry Input Needed (X one)		Yes		No X	
Industry Notified:	Yes X	No	Industry Concurrence:	Yes	No
Comments:					

SPECIFICATION REVISION SUBMITTAL FORM

Submitted by: Jim Berger		Office: Materials		Item 3																									
Submittal Date: May 09, 2011		Proposed Effective Date: April 2012 GS																											
Article No.: 4112.02, A Title: Intermediate Aggregate		Other:																											
Specification Committee Action: Approved as recommended.																													
Deferred:	Not Approved:	Approved Date: 08/11/2011	Effective Date: 04/17/2012																										
Specification Committee Approved Text: See Specification Section recommended text.																													
Comments: None.																													
Specification Section Recommended Text: 4112.02, A, Intermediate Aggregate. Replace the second line of the Gradation: No. 4 (4.75 mm) 8 (2.38 mm) 0-10																													
Comments:																													
Member's Requested Change (Redline/Strikeout):																													
<table border="1"> <tr> <td colspan="6"> 4112.02 GRADATION. A. Intermediate Aggregate. For gradations, intermediate aggregate is considered coarse aggregate. Meet the following gradation limits: </td> </tr> <tr> <td>Sieve Size</td> <td></td> <td></td> <td></td> <td></td> <td>% Passing</td> </tr> <tr> <td>1/2 inch (12.5 mm)</td> <td></td> <td></td> <td></td> <td></td> <td>95-100</td> </tr> <tr> <td>No. 4 (4.75 mm) 8 (2.38 mm)</td> <td></td> <td></td> <td></td> <td></td> <td>0-10</td> </tr> </table>						4112.02 GRADATION. A. Intermediate Aggregate. For gradations, intermediate aggregate is considered coarse aggregate. Meet the following gradation limits:						Sieve Size					% Passing	1/2 inch (12.5 mm)					95-100	No. 4 (4.75 mm) 8 (2.38 mm)					0-10
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1/2 inch (12.5 mm)					95-100																								
No. 4 (4.75 mm) 8 (2.38 mm)					0-10																								
Reason for Revision:																													
County or City Input Needed (X one)		Yes		No																									
Comments:																													
Industry Input Needed (X one)		Yes		No																									
Industry Notified:	Yes X	No	Industry Concurrence:	Yes X	No																								
Comments: No intermediate aggregate sources meet 0-10% on the No. 4 sieve. They typically have 17-30% passing the No. 4 sieve. 0-10% limit should be on the No. 8 sieve.																													

SPECIFICATION REVISION SUBMITTAL FORM

Submitted by: Jim Berger		Office: Materials	Item 4
Submittal Date: 2011.05.09		Proposed Effective Date: April 2012 GS	
Article No.: 4134.02 Title: Gradation (Floodable Backfill Material)		Other:	
Specification Committee Action: Approved as recommended.			
Deferred:	Not Approved:	Approved Date: 08/11/2011	Effective Date: 04/17/2012
Specification Committee Approved Text: See Specification Section recommended text.			
Comments: The Department determined that natural sand (concrete sand), which is coarser, works adequately for the floodable backfill use. Natural sand more readily available and less expensive.			
Specification Section Recommended Text:			
4134.02, B.			
Replace the Article:			
For natural sand use Gradation No. 1 or Gradation No. 36 of the Aggregate Gradation Table, Article 4109.02.			
Appendix.			
Add Section 4134 to Gradation No. 1 for Aggregate Gradation Tables – English and Metric.			
Comments:			
Member's Requested Change (Redline/Strikeout):			
Section 4134. Floodable Backfill Material			
Add: Gradation Number 1 and reference 4134 before Gradation 1 in the Aggregate Gradation Table (in Appendix).			
Section 4134. Floodable Backfill Material			
4134.01 DESCRIPTION.			
Uncrushed natural sand and gravel or natural sand.			
4134.02 GRADATION.			
A. For natural sand and gravel use Gradation No. 35 of the Aggregate Gradation Table, Article 4109.02.			
B. For natural sand use Gradation No. 1 or Gradation No. 36 of the Aggregate Gradation Table, Article 4109.02.			
Reason for Revision: Adjustment needed to allow all concrete sand.			
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: see attached gradation.						

AGGREGATE GRADATION TABLE – ENGLISH

Grad. No.	Section No.	Std. Sieve Size	1½"	1"	¾"	½"	3/8"	#4	#8	#30	#50	#100	#200	*Notes
			Percent Passing											
1	4110,4125, 4133, 4134	PCC FA Cover Agg.					100	90-100	70-100	10-60			0-1.5	1

SPECIFICATION REVISION SUBMITTAL FORM

Submitted by: Tom Reis / Eric Johnsen		Office: Specifications		Item 5	
Submittal Date: 8/1/2011		Proposed Effective Date: April 2012 GS			
Article No.: 4162.05		Other:			
Title: Stress Grade Timber and Lumber.					
Specification Committee Action:					
Deferred: X	Not Approved:	Approved Date:	Effective Date:		
Specification Committee Approved Text:					
Comments: Deferred pending further review.					
Specification Section Recommended Text:					
4162.05, B, Table 4162.05-1, Material Grades (Structural Class).					
Replace the last sentence of Note a:					
If T treatment for durability is specified, refer to (Section 4164 4163) is also assumed, where specified.					
4162.05, B, Table 4162.05-2, Material Grades (Common Class).					
Replace the last sentence of Note a:					
If T treatment for durability is specified, refer to (Section 4164 4163) is also assumed, where specified.					
Comments: Revision language was developed with assistance from the Office of Materials.					
Member's Requested Change: (Do not use 'Track Changes', or 'Mark-Up'. Use Strikeout and Highlight .)					
Reason for Revision:					
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: Jim Berger		Office: Materials		Item 6	
Submittal Date: 2011.07.14		Proposed Effective Date: April 2012 GS			
Section No.: Appendix. Title: Aggregate Gradation Table, Note 11		Other:			
Specification Committee Action: Approved as recommended.					
Deferred:	Not Approved:	Approved Date: 08/11/2011		Effective Date: 04/17/2012	
Specification Committee Approved Text: See Specification Section recommended text.					
Comments: Normally the maximum limit is 1.5% except for limestone and dolomite. It is difficult to determine the amount of the breakdown or its cause. For limestone and dolomite materials 2.5% is not considered deleterious to the use intended.					
Specification Section Recommended Text:					
Appendix.					
Replace Note 11 of the Aggregate Gradation Table – English Maximum of 2.5% passing the No. 200 sieve allowed if generated from the parent material for crushed limestone or dolomite when documented production is 1% or less as determined by the Office of Materials.					
Replace Note 11 of the Aggregate Gradation Table – Metric Maximum of 2.5% passing the 75 µm sieve allowed if generated from the parent material for crushed limestone or dolomite when documented production is 1% or less as determined by the Office of Materials.					
Comments:					
Member's Requested Change (Redline/Strikeout): Revision of Note 11					
SECTION 4109, APPENDIX; AGGREGATE GRADATION TABLE					
Current Note 11: Maximum of 2.5% passing the No. 200 sieve allowed if generated from the parent material when documented production is 1% or less as determined by the Office of Materials.					
Revised Note 11: Maximum of 2.5% passing the No. 200 sieve allowed for crushed limestone or dolomite when documented production is 1% or less.					
Reason for Revision: Contamination of the 200 is difficult to demonstrate and 2.5% is acceptable to the concrete industry.					
County or City Input Needed (X one)		Yes		No X	
Comments:					
Industry Input Needed (X one)		Yes X		No	
Industry Notified:		Yes X		No	
Industry Concurrence:		Yes X		No	
Comments: Iowa Limestone Producers Association and concrete industry concur. Does not apply to					

gravel or quartzite which may have clay in the minus 200.

SPECIFICATION REVISION SUBMITTAL FORM

Submitted by: Roger Bierbaum		Office: Contracts		Item 7	
Submittal Date: 2011.08.01		Proposed Effective Date: October 18, 2011			
Article No.: Title:		Other: DS for On-Call Contracting for Median Cable Guardrail Repair			
Specification Committee Action:					
Deferred: X		Not Approved:		Approved Date:	
				Effective Date:	
Specification Committee Approved Text:					
<p>Comments: There is interest in Districts 1 and 6 to use this method of repairing median cable guardrail. Since this guardrail system may be used on both medians and along the outside edge of the pavement section, the title needs to be changed from 'median' to 'high tension.' Intended contract period is one year. There will need to be coordination between the Engineer administering the contract and the individuals contacting the Contractor requesting repairs if duplication of mobilization payments is desired to be reduced, otherwise multiple requests within one day will result in multiple payments for mobilization being required. Design will submit tensioning tables to Specifications for inclusion in the specification.</p>					
<p>Specification Section Recommended Text: See attached Draft DS for On-Call Contracting for Median Cable Guardrail Repair.</p>					
<p>Comments: DS is recommended to become effective with the November 2011 letting as turn-in for October letting was August 2, 2011. For the October letting an SP will be used.</p>					
<p>Member's Requested Change: (Do not use <u>Track Changes</u>, or <u>Mark-Up</u>. Use <u>Strikeout</u> and <u>Highlight</u>.) See draft DS</p>					
<p>Reason for Revision: To have contractors perform on-call median cable guardrail repairs</p>					
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:					

SP-090XXX
(New)



Iowa Department of Transportation

SPECIAL PROVISIONS FOR ON-CALL CONTRACTING FOR HIGH TENSION CABLE GUARDRAIL REPAIR

**Statewide
IMN-000-S(501)0--0E-00**

**Effective Date
October 18, 2011**

THE STANDARD SPECIFICATIONS, SERIES 2009, ARE AMENDED BY THE FOLLOWING MODIFICATIONS AND ADDITIONS. THESE ARE SPECIAL PROVISIONS AND THEY SHALL PREVAIL OVER THOSE PUBLISHED IN THE STANDARD SPECIFICATIONS.

In addition to the requirements of Section 2505 of the Standard Specifications, the following will apply.

090152.01 DESCRIPTION.

A. General.

This specification covers repair of median cable guardrail installations. Median cable guardrail installations are high-tension median cable guardrail. An installation is defined as a continuous length of cables located between two end anchors.

The contract documents will list county, route, begin and end milepost, manufacturer, and system type of each installation for work covered by this contract.

B. Requests for Repair.

Requests for repairs will be made by individuals who have been approved to authorize repairs. The Engineer will furnish the Contractor a list of individuals approved to initiate repairs. Requests for repairs will be initiated by either a fax or e-mail to the Contractor. Requests for repair will include the following: route number, milepost location, direction of travel, and number of posts to be replaced for each repair. Provide Engineer with an e-mail address and fax number which will be used to initiate requests for repairs.

090152.02 MATERIALS.

Apply Article 2505.02 of the Standard Specifications.

090152.03 CONSTRUCTION.

A. General.

Schedule repairs upon notification by the Engineer. Provide Engineer at least 24 hours notice of when proposed work will begin.

Routine repairs within a particular installation includes removal and replacement of damaged line posts and hardware, attaching cable(s) to line posts, and checking tension of cable(s). If tension of cable(s) falls outside manufacturer's recommended limits, re-tension cable(s) to within recommended limits. Notify Engineer if non-routine repairs are needed. Approval of non-routine repairs shall have Engineer's approval before repair work may begin.

Remove and dispose of damaged materials. Leave work site in a safe and orderly condition at

completion of work.

Maintain a log of repairs. Provide Engineer a copy of log upon request. Log shall include:

- Date and time of notification by Engineer to perform repairs,
- Department personnel requesting repair,
- Route number,
- Milepost location of requested repair,
- Direction of travel,
- Date and time repairs were completed,
- Number of posts which required cables to be reattached,
- Number of replacement posts installed,
- Cable tension measurements taken after each repair, or as part of annual tension check, and
- Cable tension measurements taken after each re-tensioning, as applicable.

Repairs may be performed either without a lane closure; or with a lane closure except for periods listed in the contract documents. Remove lane closures following completion of work. Traffic control for lane closures and shoulder closures shall be according to the Standard Road Plans included in the contract documents.

B. Annual Checking of Cable Tension.

Check tension of all cables within each installation once during the contract between April 1 and May 31. Check tension according to manufacturer's recommendations. Re-tension any cable whose tension falls outside manufacturer's recommendations.

090152.04 METHOD OF MEASUREMENT.

A. Posts, Cable Repaired.

By count.

B. Mobilization, On-Call.

By count.

C. Cable, Re-tension.

By count.

090152.05 BASIS OF PAYMENT.

Article 1109.16, C, 4, b, of the Standard Specifications will not apply to items on this contract.

A. Posts, Cable Repaired.

Per line post. Payment is full compensation for reattaching cable to line post. Routine work, placement of cable on post, disposal of damaged materials, vegetation removal, snow removal, traffic control, and site cleanup are incidental to item.

B. Mobilization, On-Call.

Each. One payment of \$3000 per notification regardless of number of repair locations included. Mobilization payment will not be made for annual checking of cable tension.

Liquated Damages of \$500 per calendar day will be assessed for each calendar day repair is not completed if repair is not completed within 14 calendar days following notification by the Engineer.

C. Cable, Re-tension.

Each. Payment is full compensation for re-tensioning each cable out of tolerance according to the manufacturer's recommendations. Individual cables checked, but not requiring re-tensioning will not be counted for payment. Checking tension of cables is incidental to the item.

D. Non-Routine Repairs.

Paid for according to Article 1109.03 of the Standard Specifications. May include, but not limited

to the following: replacing line post foundations, reattaching end anchors, replacing end anchors, and repairing cable.