

KU
17

WORKBOOK CHANGE(S)

Add D 5750000.002
Rev Date 1-5-04
F.A. Date 1-8-04
Letting Date 7-04

Move D _____
To Deleted File _____
Rev Date _____
F.A. Date _____
Letting Date _____

Remarks New SS.

Dates

*Copy of Spec to Paul that Impacts
QPL (ONLY) _____
Added to Nextwb file 1-7-04 rh
Deleted from Nextwb file _____
History File Updated _____
Rolodexed 4/21/04 rh
Additional back-up see _____

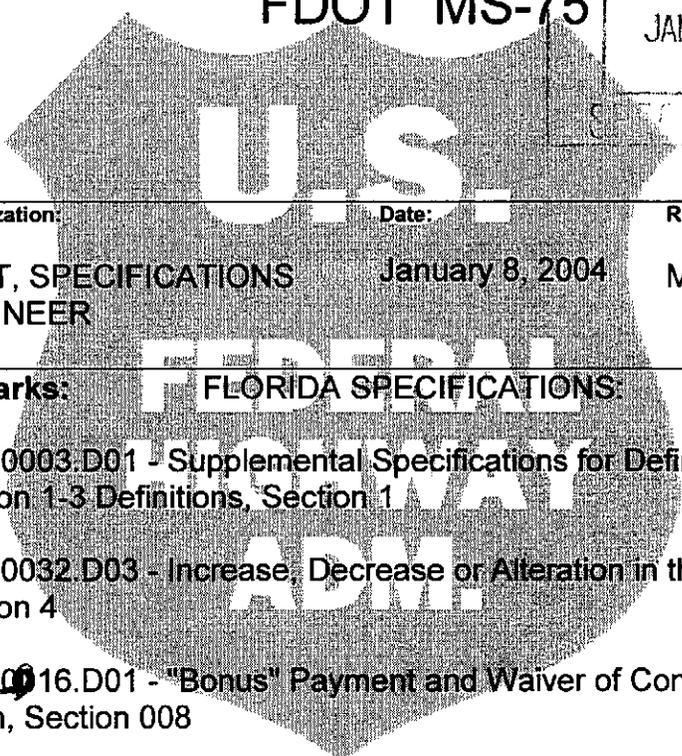
Route Slip

U.S. Department of Transportation
 Federal Highway Administration
 Florida Division
 227 N. Bronough Street, Room 2015
 Tallahassee, FL 32301

Distribution:

FDOT MS-75

RECEIVED
 JAN - 9 2004

To:	Organization:	Date:	Routing Symbol:
MR. DUANE BRAUTIGAM Or Shirley Harvey	FDOT, SPECIFICATIONS ENGINEER	January 8, 2004	MS-75

- Per Your Request
- For Your Information**
- Per Our Conversation
- Comment
- Take Appropriate Action
- Note and Return
- Discuss With Me
- For Your Approval
- For Your Signature
- Please Answer
- Prepare Reply
For Signature of

Remarks: FLORIDA SPECIFICATIONS:

D0010003.D01 - Supplemental Specifications for Definitions-
 Section 1-3 Definitions, Section 1

D0040032.D03 - Increase, Decrease or Alteration in the Work,
 Section 4

D0080016.D01 - "Bonus" Payment and Waiver of Contractor
 Claim, Section 008

D0081DMS.D01 - Incentive - Disincentive, Section 008

D00800MS.D01 - "Bonus" Payment and Waiver of Contractor
 Claims, Section 008

D008001D.D01 - Incentive-Disincentive, Section 008

D00800ab.D01 - Incentive - Disincentive for A+B, Section 008

D5750000.D02 - Sodding, Section 575

D9870001 - Finish Soil Layer Materials - Description, Section 987

ATTACHMENTS

FOR: JAMES E. ST. JOHN, DIVISION ADMINISTRATOR	Telephone Number: (850) 942-9650, EXT. 3035	FDOT MS: # 29	Org/Rtg Symbol
DON Davis: ANN to file in binders cc: 1 (w/specification)		H:ANN\FORMS\ROUTGSPECS.DOC	



Florida Department of Transportation

JEB BUSH
GOVERNOR

605 Suwannee Street
Tallahassee, FL 32399-0450

JOSÉ ABREU
SECRETARY

January 6, 2004

Mr. Donald Davis
Program Operations Engineer
Federal Highway Administration
227 N. Bronough Street, Suite 2015
Tallahassee, Florida 32301

Re: Office of Design, Specifications
Section 575
Proposed Specification: D5750000.D02 - Sodding

Dear Mr. Davis:

We are submitting, for your approval, two copies of a proposed Supplemental Specification for Sodding.

This change was proposed by David Sadler of the State Construction Office to require certification from the producer that sod be in accordance with the requirements of 981-2.

Please review and transmit your comments, if any, within two weeks. Comments should be sent via Email to SP965DB or duane.brautigam@dot.state.fl.us.

If you have any questions relating to this specification change, please call Duane F. Brautigam, State Specifications Engineer at 414-4110.

Sincerely,

Duane F. Brautigam, P.E.
State Specifications Engineer

DFB/sh
Attachment

cc: General Counsel
Florida Transportation Builders' Assoc.
State Construction Engineer

SODDING.
(REV 1-5-04)

Deleted: 11-7-03

SECTION 575 (Pages 668-670) is deleted and the following substituted:

SECTION 575
SODDING

575-1 Description.

Establish a stand of grass within the specified areas, by furnishing and placing sod, and rolling, fertilizing, watering, and maintaining the sodded areas to ensure a healthy stand of grass.

575-2 Materials.

Meet the following requirements:

- Sod..... 981-2
- Fertilizer, Type I..... Section 982
- Water..... Section 983

575-3 Construction Methods.

575-3.1 Preparation of Ground: Fertilize at the rate as shown in Section 570. Scarify or loosen the areas requiring sod to a depth of 6 inches [150 mm]. On areas where the soil is sufficiently loose, particularly on shoulders and fill slopes, the Engineer may authorize the elimination of the ground preparation. Limit preparation to those areas that can be sodded within 72 hours after preparation. Prior to sodding, thoroughly water areas and allow water to percolate into the soil. Allow surface moisture to dry before sodding to prevent a muddy soil condition.

575-3.2 Placing Sod: Place sod immediately after ground preparation. Do not use sod which has been cut for more than 72 hours. Stack all sod that is not planted within 24 hours after cutting and maintain proper moist condition.

Do not sod when weather and soil conditions are unsuitable for proper results. Pre-wet the area prior to placing sod. Do not place sod on eroded or washed out sites.

Place the sod on the prepared surface, with edges in close contact, and embed it firmly and smoothly by light tamping with appropriate tools.

Place the sod to the edge of all the paving and shrub areas and 1 inch [25 mm] below adjoining pavement with an even surface and edge. Place rolled sod parallel with the roadway and cut any exposed netting even with the sod edge.

Roll using a lightweight turf roller. Provide a true and even surface without any displacement of the sod or deformation.

Where sodding in drainage ditches, stagger the setting of the sod pieces to avoid a continuous seam along the line of flow. Ensure that the offsets of individual strips do not exceed 6 inches [150 mm]. Tamp the outer pieces of sod to produce a featheredge effect.

Peg sod at locations where the sod may slide. Drive pegs through sod blocks into firm earth, at intervals approved by the Engineer.

Remove any sod as directed by the Engineer.

575-3.3 Watering: Thoroughly water the sod immediately after placing. Do not water in excess of 1 inch [25 mm] per week for establishment.

575-3.4 Maintenance: Maintain the sodded areas in a satisfactory condition until final acceptance of the project. Include in such maintenance the filling, leveling, and repairing of any washed or eroded areas, as may be necessary. The Department will pay for resodding necessary due to factors determined to be beyond the control of the Contractor.

Mow the sodded areas to a height of 6 inches [150 mm] when competing vegetation height exceeds 20 inches [500 mm] in height.

Monitor placed sod for growth of pest plants and noxious weeds. If pest plants and/or noxious weeds manifest themselves within 30 days of placement of the sod, treat affected areas by means acceptable to the Department at no expense to the Department. If pest plants and/or noxious weeds manifest themselves after 30 days from date of placement of sod, the Engineer, at his sole option, will determine if treatment is required and whether or not the Contractor will be compensated for such treatment. If compensation is provided, payment will be made as unforeseeable work as described in 4-4.

575-4 Method of Measurement.

The quantities to be paid for will be for the following items, completed and accepted:

- (1) The area, in square yards [square meters], of sodding.
- (2) The weight, in tons [metric tons], of fertilizer.
- (3) The volume, in thousand gallons [kiloliters], of water.
- (4) The area, in acres [hectares], of mowing.

575-5 Basis of Payment.

Prices and payments will be full compensation for all work and materials specified in this Section, and the satisfactory disposal of excavated material, except the furnishing of the fertilizer, and the furnishing and application of the water.

Fertilizer and water will be paid for as specified in 570-6.

The work and materials for pegging of sod, directed by the Engineer (as provided in 575-3.2), will be paid for as Unforeseeable Work.

Payment will be made under:

- | | |
|-------------------|--|
| Item No. 104- 4- | Mowing - per acre. |
| Item No. 2104- 4- | Mowing - per hectare. |
| Item No. 570- 5- | Fertilizer - per ton. |
| Item No. 2570- 5- | Fertilizer - per metric ton. |
| Item No. 570- 9- | Water for Grassing - per thousand gallons. |
| Item No. 2570- 9- | Water for Grassing - per kiloliter. |
| Item No. 575- 1- | Sodding - per square yard. |
| Item No. 2575- 1- | Sodding - per square meter. |

Deleted: .f

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Place the sod to the edge of all the paving and shrub areas and 1 inch [25 mm] below adjoining pavement with an even surface and edge. Place rolled sod parallel with the roadway and cut any exposed netting even with the sod edge.

Roll using a lightweight turf roller. Provide a true and even surface without any displacement of the sod or deformation.

Where sodding in drainage ditches, stagger the setting of the sod pieces to avoid a continuous seam along the line of flow. Ensure that the offsets of individual strips do not exceed 6 inches [150 mm]. Tamp the outer pieces of sod to produce a featheredge effect.

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Remove any sod as directed by the Engineer.

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| Item No. 570- 9- | Water for Grassing - per thousand gallons. |
| Item No. 2570- 9- | Water for Grassing - per kiloliter. |
| Item No. 575- 1- | Sodding - per square yard. |
| Item No. 2575- 1- | Sodding - per square meter. |

APPROVED:



DATE: 1-8-04

For the Division Administrator



Shirley Harvey

01/06/2004 03:08 PM

To: donald.davis@fhwa.dot.gov
cc: Clay McGonagill/CO/FDOT@FDOT, bburleson@ftba.com, Ananth Prasad/CO/FDOT@FDOT, acarlisle@ftba.com, ann.allshouse@fhwa.dot.gov
Subject: Approval for D5750000.D02 - Sodding



D5750000.D02.doc

Please review the attached draft specification and return your approval/comments within two weeks.

Thanks,
shirley harvey
SC 994-4120
(850)414-4120
shirley.harvey@dot.state.fl.us



Florida Department of Transportation

JEB BUSH
GOVERNOR

605 Suwannee Street
Tallahassee, FL 32399-0450

JOSÉ ABREU
SECRETARY

January 6, 2004

Mr. Donald Davis
Program Operations Engineer
Federal Highway Administration
227 N. Bronough Street, Suite 2015
Tallahassee, Florida 32301

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Section 575
Proposed Specification: D5750000.D02 - Sodding

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If you have any questions relating to this specification change, please call Duane F. Brautigam, State Specifications Engineer at 414-4110.

Sincerely,

A handwritten signature in black ink, appearing to read "Duane F. Brautigam".

Duane F. Brautigam, P.E.
State Specifications Engineer

DFB/sh
Attachment

cc: General Counsel
Florida Transportation Builders' Assoc.
State Construction Engineer

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Water	Section 983

575-3 Construction Methods.

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Item No. 2570- 9-	Water for Grassing - per kiloliter.
Item No. 575- 1-	Sodding - per square yard.
Item No. 2575- 1-	Sodding - per square meter.



David Sadler
01/05/2004 04:09 PM

To: Shirley Harvey/CO/FDOT@FDOT
cc:
Subject: Re: Comments for D5750000.D01 - Sodding

Looks good. Thanks,

Please let me know if you have any questions.

David A. Sadler, P.E.
Construction Engineer
(850)414-5203, SC 994-5203
Lotus Notes FAX (850)412-8021
Fax Machine (850)414-4874, SC 994-4874
userid: cn982da email: david.sadler@dot.state.fl.us
Shirley Harvey



Shirley Harvey
01/05/2004 01:38 PM

To: David Sadler/CO/FDOT@FDOT
cc:
Subject: Re: Comments for D5750000.D01 - Sodding



D5750000.D02.doc

Spec is attached for your review.

Thanks,
shirley harvey
SC 994-4120
(850)414-4120
shirley.harvey@dot.state.fl.us
David Sadler



David Sadler
01/05/2004 01:09 PM

To: Shirley Harvey/CO/FDOT@FDOT
cc:
Subject: Re: Comments for D5750000.D01 - Sodding

Yes, I'd like to look it over. Please send it along. Thanks.

Please let me know if you have any questions.

David A. Sadler, P.E.
Construction Engineer
(850)414-5203, SC 994-5203
Lotus Notes FAX (850)412-8021
Fax Machine (850)414-4874, SC 994-4874
userid: cn982da email: david.sadler@dot.state.fl.us
Shirley Harvey



Shirley Harvey
01/05/2004 11:05 AM

To: David Sadler/CO/FDOT@FDOT
cc:
Subject: Re: Comments for D5750000.D01 - Sodding

David, I have made the change as mentioned in 575-5. Would you like to look it over again?

Thanks,
shirley harvey
SC 994-4120
(850)414-4120
shirley.harvey@dot.state.fl.us
David Sadler



David Sadler
12/31/2003 01:04 PM

To: Shirley Harvey/CO/FDOT@FDOT
CC:
Subject: Re: Comments for D5750000.D01 - Sodding 

Please see responses in document. There is one change based on comments from John Hess that is a pen and ink type change where an erroneous period has been placed in section 575-5.



D5750000.D01comments 12-31-03.c

Please let me know if you have any questions.

David A. Sadler, P.E.
Construction Engineer
(850)414-5203, SC 994-5203
Lotus Notes FAX (850)412-8021
Fax Machine (850)414-4874, SC 994-4874
userid: cn982da email: david.sadler@dot.state.fl.us
Shirley Harvey



Shirley Harvey
12/17/2003 02:06 PM

To: David Sadler/CO/FDOT@FDOT
CC:
Subject: Comments for D5750000.D01 - Sodding



D5750000.D01.doc

Please review the attached comments and return your response as soon as possible so that we can continue with the review process.

Thanks,
shirley harvey
SC 994-4120
(850)414-4120
shirley.harvey@dot.state.fl.us



David Sadler
12/31/2003 01:04 PM

To: Shirley Harvey/CO/FDOT@FDOT
cc:
Subject: Re: Comments for D5750000.D01 - Sodding 

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D5750000.D01comments 12-31-03.c

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Fax Machine (850)414-4874, SC 994-4874
userid: cn982da email: david.sadler@dot.state.fl.us
Shirley Harvey



Shirley Harvey
12/17/2003 02:06 PM

To: David Sadler/CO/FDOT@FDOT
cc:
Subject: Comments for D5750000.D01 - Sodding



D5750000.D01.doc

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shirley harvey
SC 994-4120
(850)414-4120
shirley.harvey@dot.state.fl.us

Duane F Brautigam

12/11/2003 04:47 PM

To: Clinton Shaw/CO/FDOT@FDOT
cc:
Subject: Spec Change D5750000.D01 - Sodding

Duane F. Brautigam, P.E.
State Specifications Engineer
Florida Department of Transportation
(850) 414-4130; SC 994-4130
duane.brautigam@dot.state.fl.us

----- Forwarded by Duane F Brautigam/CO/FDOT on 12/11/2003 04:47 PM -----

Charles E Howard

12/11/2003 04:26 PM

To: Duane F Brautigam/CO/FDOT@FDOT
cc:
Subject: Spec Change D5750000.D01 - Sodding

Will this change essentially set an establishment period for sod? *No, establishment time is not included in this change.* What if sod is placed on the last day of the contract? *The monitoring of the sod for 30-days requirement is still in effect.* Sod certifications already include a statement saying the sod is free of noxious weed and seed. *The Department of Agriculture certifications state that the sod appears to be free of noxious weeds. The purpose of this proposed change is to be able to evaluate when/if noxious weeds appear if they were brought in or established after sodding based on germination rates.* I can't find the requirement for this, but is this not common practice? How will be able to determine if the noxious weeds were in the sod prior to delivery, or if they were blown in or carried in after the sod was placed? *As mentioned above, the determination is based on the germination rate for the weed seeds. Based on research done, it appears that the time for a seed to germinate and undesirable plant to show itself is between 30 to 60 days. If the undesirable plant was previously established and mowed, it will show itself sooner than the 30 days limit.*

Gene Howard
Project Manager
Jacksonville Construction
(904) 360-5544, SC 824-5544
Nextel (386) 623-0576
charles.howard@dot.state.fl.us

Duane F Brautigam

11/24/2003 08:09 AM

To: Clinton Shaw/CO/FDOT@FDOT
cc: bburleson@ftba.com
Subject: Data posted to form 1 of http:
//www11.myflorida.com/specificationsoffice/IndustryReview.htm

Duane F. Brautigam, P.E.
State Specifications Engineer
Florida Department of Transportation
(850) 414-4130; SC 994-4130
duane.brautigam@dot.state.fl.us

----- Forwarded by Duane F Brautigam/CO/FDOT on 11/24/2003 08:09 AM -----

<webmaster@dot.state.fl.us>

11/20/2003 08:29 AM

To: <duane.brautigam@dot.state.fl.us>
cc:
Subject: Data posted to form 1 of http:
//www11.myflorida.com/specificationsoffice/IndustryReview.htm

File: D5750000.D01 - Sodding
Username: Jason Bates
UserEmail: svg@suwanneevalley.net
UserTel: 386-752-2504
UserFAX: 386-752-9557
ContactRequested:
Remote Name: 162.39.248.90
Remote User:

Comments:

The proposed specification change assumes that all weeds that appear in the sod once placed have come with the sod. Weed seed can lie dormant in dirt. During earthwork activities such as reworking shoulders, the weed seed is disturbed and germinates. Weed seed is also brought in fill dirt and borrow material added to the shoulders where it then germinates once spread on the shoulders. It is unreasonable to assume that all weeds that

grow in the sod once it is placed on a project have come with the sod. The best way to back up that argument is to go to the sod field where the sod has come from and observe what weeds are present there. Good comments. It was considered that the possibility existed that the existing soils could have un-germinated seeds that would produce undesirable vegetation. That was why the time frame of 30 days or less was set based on the research that indicated that the weed that developed from seed germinated on site would not show itself until after 30 days. The specification is also written to allow for Engineering determination as to the cause of the weeds. Thank you for your time.

Duane F Brautigam

12/08/2003 08:15 PM

To: Clinton Shaw/CO/FDOT@FDOT
cc:
Subject: Data posted to form 1 of http:
//www11.myflorida.com/specificationsoffice/IndustryReview.htm

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<webmaster@dot.state.fl.us>

12/05/2003 04:28 PM

To: <duane.brautigam@dot.state.fl.us>
cc:
Subject: Data posted to form 1 of http:
//www11.myflorida.com/specificationsoffice/IndustryReview.htm

File: D5750000.D01 - Sodding
Username: jeff williams
UserEmail:
UserTel:
UserFAX:
ContactRequested:
Remote Name: 156.75.21.46
Remote User:

Comments:

575-3.4 Maintenance...just after the sentence that states we will pay for unforeseen re-sodding, the next new sentence should read..."Any maintenance needed as a result of normal rainfall will not be compensated for". *That is the purpose for the statement about paying for replacement sodding due to factors beyond the contractors control. Maintenance during normal rainfall is addressed as included in specification based on the statement, "Maintain the sodded areas in a satisfactory condition until final acceptance of the project. Include in such maintenance the filling, leveling, and repairing of any washed or eroded areas, as may be necessary."*

Duane F Brautigam

12/02/2003 10:03 AM

To: Clinton Shaw/CO/FDOT@FDOT
cc:
Subject: Data posted to form 1 of http:
//www11.myflorida.com/specificationsoffice/IndustryReview.htm

Duane F. Brautigam, P.E.
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----- Forwarded by Duane F Brautigam/CO/FDOT on 12/02/2003 10:03 AM -----

<webmaster@dot.state.fl.us>

12/02/2003 09:11 AM

To: <duane.brautigam@dot.state.fl.us>
cc:
Subject: Data posted to form 1 of http:
//www11.myflorida.com/specificationsoffice/IndustryReview.htm

File: D5750000.D01 - Sodding
Username: John C. Hess
UserEmail: john.hess@dot.state.fl.us
UserTel: (850) 410-5513
UserFAX:
ContactRequested:
Remote Name: 156.75.196.5
Remote User:

Comments:

Prices and payments will be full compensation for all work and materials specified in this. Section, and the satisfactory disposal of excavated material, except the furnishing of the fertilizer, and the furnishing and application of the water.
There should not be a period after this in the first sentence above. Agree. Shirley, can you make this change?

Duane F Brautigam

12/09/2003 06:42 PM

To: Clinton Shaw/CO/FDOT@FDOT
cc:
Subject: 575 Sodding specification

Duane F. Brautigam, P.E.
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----- Forwarded by Duane F Brautigam/CO/FDOT on 12/09/2003 06:42 PM -----

Lori E Williams

12/09/2003 03:55 PM

To: Duane F Brautigam/CO/FDOT@FDOT
cc: Jeff Caster/CO/FDOT@FDOT
Subject: 575 Sodding specification

I am concerned that thirty day window might be too short of time to hold the contractor responsible for the introduction of weeds. I appreciate the language giving the engineer some discretion. *It was considered a reasonable time frame based on the information that indicated that an existing weed that was mowed would show itself within 30 days and that weeds that grew from seed onsite should not show themselves before 30 days.*

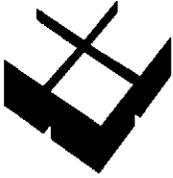
I really feel strongly about the sentence 575-3.3 " Do not water more than one inch per week?" Per

our grass experts at UF (Dr. Kidder to name just one), water is the limiting factor in the establishment of grass. Where did this come from? *I don't know the origin of this requirement but this was addressed as part of this specification revision. This could be addressed on subsequent revisions.* Were we getting gouged on the price for water? We can address that in a different way. I would be very interested to take a harder look at that

sentence. *Make your proposal and submit it to me.*

Thank you

Lori E. Williams, M.E., P.E.
Senior Engineer/Project Management
District Construction Horticultural Engineer
Gainesville Construction
(352) 381-4211, SC 643-4211
MS 2404, CN214LW



Swart's Landscaping, Inc.

450 Deen Still Road
Davenport, Florida 33897

Telephone 863-424-6222
Fax 863-424-6811

November 20, 2003

Mr. Duane F. Brautigan, P.E., State Specifications Engineer
Florida Department of Transportation
605 Suwannee Street
Tallahassee, FL 32399

Re: Proposed Specifications Change: D5750000.D01 – Sodding

Dear Mr. Brautigan:

This letter is in response to the memorandum requesting comments of the proposed changes to the sodding D5750000.D01 specification. We, respectfully, submit the following comments.

The inclusion of diction related to monitoring for pest plants and noxious weeds is a welcomed addition to the sodding specification. On behalf of the Contractor, we appreciate the Department's active interest in this issue. There are, however, a few areas in the proposed language that we feel need clarification.

First, "pest plants and noxious weeds" need to be defined. To our knowledge, this specification change was prompted because of Tropical Sod Apple (TSA). Therefore, we suggest the general terms be eliminated, and replaced with specific reference to TSA. *While TSA was one of the concerns, there are other noxious weeds of concern to the Department. Rather than list each, and possibly omit some, it was written as shown.*

Second, the diction presented does not mention the pre-existing presence of TSA plants on the project limits or on adjacent properties prior to the placement of sod on the project. The proposed specification (minus the "...*Engineer, at his sole option, will determine if treatment is required...and whether or not the Contractor will be compensated...*") is acceptable for projects that do not have a pre-existing TSA presence. But for jobsites that have a pre-existing presence, the contractor should never be held responsible for the growth of plants within 30 days or after 30 days. Our opinion is that the Contractor should always be compensated for the treatment. *The 30-day limit was set with consideration given to sites that may have TSA adjacent to a*

project or even within project limits. Information indicated that it should take noxious weeds, TSA for one, between 30 and 60 days to show themselves from seed. Existing weed plants that have been mowed and brought in should show themselves within the 30 days. Therefore, seed that may blow onto or be dropped onto sod placed on a project should not show within the 30-day limitation.

Third, the specification must set a standard acceptable means of treatment. There are various publications that each suggests various different treatments. It is our opinion that the specification should reference or include a specific acceptable treatment. For example, the District One Tropical Soda Apple Policy, Section IV, sets guidelines for the acceptable means of treatment. By including guidelines, like these, the Department is providing the Contractor with a clear understanding of the Departments intentions. Also, by stating the acceptable treatment process, it will decrease delays in response time. *Because this is not written as a TSA concern and is intended to be more encompassing, the treatment would be determined on a project specific, actually noxious weed specific, basis.*

Lastly, it seems illogical to leave the treatment of the TSA plants at the Engineer's sole option. By leaving the treatment an option, the Department is not providing the State with a consistent product. It is my understanding that the goal of the Department is to address this very serious problem with a solution, not an optional solution. As we all know the TSA infestation is more sensitive and critical to some individuals then others. By allowing an individual to exercise their option it creates a certain level of disadvantage or advantage for some Contractors and Sub-Contractors depending on the Engineer. *Again, this not being a TSA specification, the language was written to allow the Engineer for the construction project the ability to handle treatment via the construction contract or to hand off treatment to the Department's Maintenance units should it be determined that treatment is required.*

Below as a revision to the proposed language:

Prior to the beginning of a project, the Project Engineer and a representative of the Contractor will survey the project limits and the adjacent areas to determine the presence of Tropical Soda Apple (TSA). Document the results of the survey in the project files. Monitor placed sod for growth of TSA plants. If TSA plants manifest themselves in the sod within 30 days of the placement of the sod, and the Engineer has documented results of the project survey showing no pre-existing presence of TSA, treat affected areas according to the Department's approved process at no expense to the Department. If TSA plants manifest themselves after 30 days from the date of placement of sod, the Engineer, will authorize for the approved treatment process set forth by the Department. The Contractor will be compensated for such treatment. Compensation will be made as unforeseeable work as described in 4-4.

The Department's approved TSA treatment: All TSA plants shall be removed or treated as applicable by the following methods:

- A. Small plants with no blooms or fruit shall be sprayed with a mixture of either: Remedy at 1% solution + 0.10 to 0.25% non-ionic surfactant +***

color marker. Or Roundup at 3% solution = 0.10 to 0.25% non-ionic surfactant + color marker.

Cover the entire TSA plant with spray to ensure herbicide uptake and maximum control. Allow herbicide to dry on plants 3-4 hours before rainfall. Either herbicide may damage some adjacent grass, however, more damage is likely with Roundup. Use a colored dye with the herbicide solution to avoid spraying the same plant twice, or not spraying a plant at all. Monitor sprayed areas monthly and treat new TSA seedlings until Final acceptable of the project. Do not allow plants to produce fruit.

B. Mature plants with blooms or fruit must be removed by bagging the plant then digging up the entire plant and root system. Do not pull the plant up because this will leave roots that may sprout new plants. Dispose of the plants and all fruit pods by incineration. Do not mow plants with blooms or fruit.

This removal and treatment process is presented exactly as it is written in the District One Tropical Soda Apple Policy. Thank you for the opportunity to review the proposed specification changes. Please do not hesitate to call, if I can be of any further assistance.

Sincerely,

Nancy de la Rosa
V.P. Operations

CC: Andy Swart

Duane F Brautigam

12/05/2003 08:16 AM

To: Clinton Shaw/CO/FDOT@FDOT
cc:
Subject: Data posted to form 1 of http:
//www.dot.state.fl.us/specificationsoffice/IndustryReview.htm

Duane F. Brautigam, P.E.
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duane.brautigam@dot.state.fl.us

----- Forwarded by Duane F Brautigam/CO/FDOT on 12/05/2003 08:16 AM -----

<webmaster@dot.state.fl.us>

12/05/2003 08:15 AM

To: <duane.brautigam@dot.state.fl.us>
cc:
Subject: Data posted to form 1 of http:
//www.dot.state.fl.us/specificationsoffice/IndustryReview.htm

File: D5750000.D01 - Sodding
Username: Paul A. Grochowski
UserEmail: Paul.Grochowski@dot.state.fl.us
UserTel: 352-381-4200
UserFAX: 352-381-4250
ContactRequested:
Remote Name: 156.75.20.242
Remote User:

Comments:

My concern in section 575-3.4 is when sod is placed during the winter months. 30 days will be exceeded during this non-grow season on a regular basis to determine if noxious/pest plants are present. I feel this will open the department up for increased cost due to having to compensate the contractor when the growing season comes about. Recommend we make mention of exception during non-grow season. I don't necessarily agree with the term non-grow season, but would probably agree with slow-grow given Florida's mild climate. Again, discretion is provided for the Engineer to make a

determination if treatment is required under the Construction
Contract.

Donald Duncan

11/19/2003 10:43 AM

To: Clinton Shaw/CO/FDOT@FDOT, John H Owens/CO/FDOT@FDOT
cc: L Alan Reese/CO/FDOT@FDOT, Frances Thomas/CO/FDOT@FDOT
Subject: Re: Industry Review for D5750000.D01 - Sodding

In addition to Alan's comments, Frances Thomas has this comment, She is not sure why Construction is doing this. 981 is already a requirement and the changed section seems to be a remedy for not having quality sod rather than enforcing what already exists. *Referencing 981 is accurate, however, there are times in which we will have sod placed on a project that later will exhibit undesirable vegetation. The sod will be accompanied by a Department of Agriculture certification stating that the sod in the field appeared free of noxious weeds at the time of inspection. The issue of the weeds then becomes one of how did the weeds get there and who is responsible for them. The argument often received from contractors is that the sod is certified and the wind or a bird must have deposited the seeds that caused the weeds to grow. The rationale behind this change is based on the germination rate for weed seeds. Information indicates that it will take between 30 and 60 days for weeds to show themselves after germination. The proposed specification change is based on the premise that existing weeds that have been mowed and brought in with the sod will show themselves within 30 days.*

Donald O. Duncan
Maintenance Specifications Manager
Florida Department of Transportation
State Maintenance Office MS 52
(850)-410-5757 SC 210-5757

----- Forwarded by Donald Duncan/CO/FDOT on 11/18/2003 07:39 AM -----

L Alan Reese

11/17/2003 05:12 PM

To: Donald Duncan/CO/FDOT@FDOT
cc: Frances Thomas/CO/FDOT@FDOT
Subject: Re: Industry Review for D5750000.D01 - Sodding

Depending on the time of the year that the sod is placed, the location of the planting in the State and the species of noxious plants in the sod, 30 days is not enough time to make the determination as to whether the noxious plants were already in the sod when placed. If the time period is left at 30 days, I think that this is a worthless change to this specification. *Thanks for your comments.*

L. Alan Reese
State Maintenance Office
Contracts and Agreements Administrator
MT954AR
lalan.reese@dot.state.fl.us
Phone Number 850-410-5757
Fax Number 850-410-5511



Shirley Harvey

12/17/2003 02:06 PM

To: David Sadler/CO/FDOT

cc:

Subject: Comments for D5750000.D01 - Sodding



D5750000.D01.doc

Please review the attached comments and return your response as soon as possible so that we can continue with the review process.

Thanks,
shirley harvey
SC 994-4120
(850)414-4120
shirley.harvey@dot.state.fl.us



Florida Department of Transportation

JEB BUSH
GOVERNOR

605 Suwannee Street
Tallahassee, FL 32399-0450

JOSÉ ABREU
SECRETARY

MEMORANDUM

DATE: December 17, 2003

TO: David Sadler, State Construction Office

FROM: Clinton J. Shaw, State Specifications Office 

SUBJECT: **Proposed Modifications To Specification: D5750000.D01 - Sodding**

Comments received, regarding the subject modification to the Standard Specifications, are attached. Please review these comments and advise of any further modifications by December 31, 2003. Also, please submit an electronic summary, of your decisions concerning these comment(s) in memorandum format. This summary will be posted on the State Specifications Office Web Page and included in the Specifications folder for future reference, should someone question your response. Your assistance will be appreciated.

Please Email submittals to SP965CS or clinton.shaw@dot.state.fl.us.

CS/sh

Attachment

SODDING.
(REV 11-7-03)

SECTION 575 (Pages 668-670) is deleted and the following substituted:

SECTION 575
SODDING

575-1 Description.

Establish a stand of grass within the specified areas, by furnishing and placing sod, and rolling, fertilizing, watering, and maintaining the sodded areas to ensure a healthy stand of grass.

575-2 Materials.

Meet the following requirements:

- Sod 981-2
- Fertilizer, Type I..... Section 982
- Water Section 983

575-3 Construction Methods.

575-3.1 Preparation of Ground: Fertilize at the rate as shown in Section 570. Scarify or loosen the areas requiring sod to a depth of 6 inches [150 mm]. On areas where the soil is sufficiently loose, particularly on shoulders and fill slopes, the Engineer may authorize the elimination of the ground preparation. Limit preparation to those areas that can be sodded within 72 hours after preparation. Prior to sodding, thoroughly water areas and allow water to percolate into the soil. Allow surface moisture to dry before sodding to prevent a muddy soil condition.

575-3.2 Placing Sod: Place sod immediately after ground preparation. Do not use sod which has been cut for more than 72 hours. Stack all sod that is not planted within 24 hours after cutting and maintain proper moist condition.

Do not sod when weather and soil conditions are unsuitable for proper results. Pre-wet the area prior to placing sod. Do not place sod on eroded or washed out sites.

Place the sod on the prepared surface, with edges in close contact, and embed it firmly and smoothly by light tamping with appropriate tools.

Place the sod to the edge of all the paving and shrub areas and 1 inch [25 mm] below adjoining pavement with an even surface and edge. Place rolled sod parallel with the roadway and cut any exposed netting even with the sod edge.

Roll using a lightweight turf roller. Provide a true and even surface without any displacement of the sod or deformation.

Where sodding in drainage ditches, stagger the setting of the sod pieces to avoid a continuous seam along the line of flow. Ensure that the offsets of individual strips do not exceed 6 inches [150 mm]. Tamp the outer pieces of sod to produce a featheredge effect.

Peg sod at locations where the sod may slide. Drive pegs through sod blocks into firm earth, at intervals approved by the Engineer.

Remove any sod as directed by the Engineer.

575-3.3 Watering: Thoroughly water the sod immediately after placing. Do not water in excess of 1 inch [25 mm] per week for establishment.

575-3.4 Maintenance: Maintain the sodded areas in a satisfactory condition until final acceptance of the project. Include in such maintenance the filling, leveling, and repairing of any washed or eroded areas, as may be necessary. The Department will pay for resodding necessary due to factors determined to be beyond the control of the Contractor.

Mow the sodded areas to a height of 6 inches [150 mm] when competing vegetation height exceeds 20 inches [500 mm] in height.

Monitor placed sod for growth of pest plants and noxious weeds. If pest plants and/or noxious weeds manifest themselves within 30 days of placement of the sod, treat affected areas by means acceptable to the Department at no expense to the Department. If pest plants and/or noxious weeds manifest themselves after 30 days from date of placement of sod, the Engineer, at his sole option, will determine if treatment is required and whether or not the Contractor will be compensated for such treatment. If compensation is provided, payment will be made as unforeseeable work as described in 4-4.

575-4 Method of Measurement.

The quantities to be paid for will be for the following items, completed and accepted:

- (1) The area, in square yards [square meters], of sodding.
- (2) The weight, in tons [metric tons], of fertilizer.
- (3) The volume, in thousand gallons [kiloliters], of water.
- (4) The area, in acres [hectares], of mowing.

575-5 Basis of Payment.

Prices and payments will be full compensation for all work and materials specified in this.

Section, and the satisfactory disposal of excavated material, except the furnishing of the fertilizer, and the furnishing and application of the water.

Fertilizer and water will be paid for as specified in 570-6.

The work and materials for pegging of sod, directed by the Engineer (as provided in 575-3.2), will be paid for as Unforeseeable Work.

Payment will be made under:

Item No. 104- 4-	Mowing - per acre.
Item No. 2104- 4-	Mowing - per hectare.
Item No. 570- 5-	Fertilizer - per ton.
Item No. 2570- 5-	Fertilizer - per metric ton.
Item No. 570- 9-	Water for Grassing - per thousand gallons.
Item No. 2570- 9-	Water for Grassing - per kiloliter.
Item No. 575- 1-	Sodding - per square yard.
Item No. 2575- 1-	Sodding - per square meter.

Duane F Brautigam

12/11/2003 04:47 PM

To: Clinton Shaw/CO/FDOT@FDOT
cc:
Subject: Spec Change D5750000.D01 - Sodding

Duane F. Brautigam, P.E.
State Specifications Engineer
Florida Department of Transportation
(850) 414-4130; SC 994-4130
duane.brautigam@dot.state.fl.us

----- Forwarded by Duane F Brautigam/CO/FDOT on 12/11/2003 04:47 PM -----

Charles E Howard

12/11/2003 04:26 PM

To: Duane F Brautigam/CO/FDOT@FDOT
cc:
Subject: Spec Change D5750000.D01 - Sodding

Will this change essentially set an establishment period for sod? What if sod is placed on the last day of the contract? Sod certifications already include a statement saying the sod is free of noxious weed and seed. I can't find the requirement for this, but is this not common practice? How will be able to determine if the noxious weeds were in the sod prior to delivery, or if they were blown in or carried in after the sod was placed?

Gene Howard
Project Manager
Jacksonville Construction
(904) 360-5544, SC 824-5544
Nextel (386) 623-0576
charles.howard@dot.state.fl.us

Duane F Brautigam

11/24/2003 08:09 AM

To: Clinton Shaw/CO/FDOT@FDOT
cc: bburleson@ftba.com
Subject: Data posted to form 1 of http:
//www11.myflorida.com/specificationsoffice/IndustryReview.htm

Duane F. Brautigam, P.E.
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duane.brautigam@dot.state.fl.us

----- Forwarded by Duane F Brautigam/CO/FDOT on 11/24/2003 08:09 AM -----

<webmaster@dot.state.fl.us>

11/20/2003 08:29 AM

To: <duane.brautigam@dot.state.fl.us>
cc:
Subject: Data posted to form 1 of http:
//www11.myflorida.com/specificationsoffice/IndustryReview.htm

File: D5750000.D01 - Sodding
Username: Jason Bates
UserEmail: svg@suwanneevalley.net
UserTel: 386-752-2504
UserFAX: 386-752-9557
ContactRequested:
Remote Name: 162.39.248.90
Remote User:

Comments:

The proposed specification change assumes that all weeds that appear in the sod once placed have come with the sod. Weed seed can lie dormant in dirt. During earthwork activities such as reworking shoulders, the weed seed is disturbed and germinates. Weed seed is also brought in fill dirt and borrow material added to the shoulders where it then germinates once spread on the shoulders. It is unreasonable to assume that all weeds that

grow in the sod once it is placed on a project have come with the
sod. The
best way to back up that arguement is to go to the sod field
where the sod
has come from and observe what weeds are present there. Thank
you for your
time.

Duane F Brautigam

12/08/2003 08:15 PM

To: Clinton Shaw/CO/FDOT@FDOT
cc:
Subject: Data posted to form 1 of http:
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----- Forwarded by Duane F Brautigam/CO/FDOT on 12/08/2003 08:15 PM -----

<webmaster@dot.state.fl.us>

12/05/2003 04:28 PM

To: <duane.brautigam@dot.state.fl.us>
cc:
Subject: Data posted to form 1 of http:
//www11.myflorida.com/specificationsoffice/IndustryReview.htm

File: D5750000.D01 - Sodding
Username: jeff williams
UserEmail:
UserTel:
UserFAX:
ContactRequested:
Remote Name: 156.75.21.46
Remote User:

Comments:

575-3.4 Maintenance...just after the sentence that states we will
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read..."Any
maintenance needed as a result of normal rainfall will not be
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Duane F Brautigam

12/02/2003 10:03 AM

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12/02/2003 09:11 AM

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cc:
Subject: Data posted to form 1 of http:
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File: D5750000.D01 - Sodding
Username: John C. Hess
UserEmail: john.hess@dot.state.fl.us
UserTel: (850) 410-5513
UserFAX:
ContactRequested:
Remote Name: 156.75.196.5
Remote User:

Comments:

Prices and payments will be full compensation for all work and materials specified in this. Section, and the satisfactory disposal of excavated material, except the furnishing of the fertilizer, and the furnishing and application of the water.
There should not be a period after this in the first sentence above.

Duane F Brautigam

12/09/2003 06:42 PM

To: Clinton Shaw/CO/FDOT@FDOT
cc:
Subject: 575 Sodding specification

Duane F. Brautigam, P.E.
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----- Forwarded by Duane F Brautigam/CO/FDOT on 12/09/2003 06:42 PM -----

Lori E Williams

12/09/2003 03:55 PM

To: Duane F Brautigam/CO/FDOT@FDOT
cc: Jeff Caster/CO/FDOT@FDOT
Subject: 575 Sodding specification

I am concerned that thirty day window might be too short of time to hold the contractor responsible for the introduction of weeds. I appreciate the language giving the engineer some discretion.

I really feel strongly about the sentence 575-3.3 " Do not water more than one inch per week?" Per

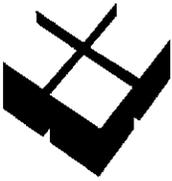
our grass experts at UF (Dr. Kidder to name just one), water is the limiting factor in the establishment of grass. Where did this come from? Were we getting gouged on the price for water?

We can address that in a different way. I would be very interested to take a harder look at that

sentence. Thank you

Lori E. Williams, M.E., P.E.

Senior Engineer/Project Management
District Construction Horticultural Engineer
Gainesville Construction
(352) 381-4211, SC 643-4211
MS 2404, CN214LW



Swart's Landscaping, Inc.

450 Deen Still Road
Davenport, Florida 33897

Telephone 863-424-6222
Fax 863-424-6811

November 20, 2003

Mr. Duane F. Brautigan, P.E., State Specifications Engineer
Florida Department of Transportation
605 Suwannee Street
Tallahassee, FL 32399

Re: Proposed Specifications Change: D5750000.D01 – Sodding

Dear Mr. Brautigan:

This letter is in response to the memorandum requesting comments of the proposed changes to the sodding D5750000.D01 specification. We, respectfully, submit the following comments.

The inclusion of diction related to monitoring for pest plants and noxious weeds is a welcomed addition to the sodding specification. On behalf of the Contractor, we appreciate the Department's active interest in this issue. There are, however, a few areas in the proposed language that we feel need clarification.

First, "pest plants and noxious weeds" need to be defined. To our knowledge, this specification change was prompted because of Tropical Sod Apple (TSA). Therefore, we suggest the general terms be eliminated, and replaced with specific reference to TSA.

Second, the diction presented does not mention the pre-existing presence of TSA plants on the project limits or on adjacent properties prior to the placement of sod on the project. The proposed specification (minus the "...*Engineer, at his sole option, will determine if treatment is required...and whether or not the Contractor will be compensated...*") is acceptable for projects that do not have a pre-existing TSA presence. But for jobsites that have a pre-existing presence, the contractor should never be held responsible for the growth of plants within 30 days or after 30 days. Our opinion is that the Contractor should always be compensated for the treatment.

Third, the specification must set a standard acceptable means of treatment. There are various publications that each suggests various different treatments. It is our opinion that the specification should reference or include a specific acceptable

treatment. For example, the District One Tropical Soda Apple Policy, Section IV, sets guidelines for the acceptable means of treatment. By including guidelines, like these, the Department is providing the Contractor with a clear understanding of the Departments intentions. Also, by stating the acceptable treatment process, it will decrease delays in response time.

Lastly, it seems illogical to leave the treatment of the TSA plants at the Engineer's sole option. By leaving the treatment an option, the Department is not providing the State with a consistent product. It is my understanding that the goal of the Department is to address this very serious problem with a solution, not an optional solution. As we all know the TSA infestation is more sensitive and critical to some individuals then others. By allowing an individual to exercise their option it creates a certain level of disadvantage or advantage for some Contractors and Sub-Contractors depending on the Engineer.

Below as a revision to the proposed language:

Prior to the beginning of a project, the Project Engineer and a representative of the Contractor will survey the project limits and the adjacent areas to determine the presence of Tropical Soda Apple (TSA). Document the results of the survey in the project files. Monitor placed sod for growth of TSA plants. If TSA plants manifest themselves in the sod within 30 days of the placement of the sod, and the Engineer has documented results of the project survey showing no pre-existing presence of TSA, treat affected areas according to the Department's approved process at no expense to the Department. If TSA plants manifest themselves after 30 days from the date of placement of sod, the Engineer, will authorize for the approved treatment process set forth by the Department. The Contractor will be compensated for such treatment. Compensation will be made as unforeseeable work as described in 4-4.

The Department's approved TSA treatment: All TSA plants shall be removed or treated as applicable by the following methods:

- A. Small plants with no blooms or fruit shall be sprayed with a mixture of either: Remedy at 1% solution + 0.10 to 0.25% non-ionic surfactent + color marker. Or Roundup at 3% solution = 0.10 to 0.25% non-ionic surfactent + color marker.***

Cover the entire TSA plant with spray to ensure herbicide uptake and maximum control. Allow herbicide to dry on plants 3-4 hours before rainfall. Either herbicide may damage some adjacent grass, however, more damage is likely with Roundup. Use a colored dye with the herbicide solution to avoid spraying the same plant twice, or not spraying a plant at all. Monitor sprayed areas monthly and treat new TSA seedlings until Final acceptable of the project. Do not allow plants to produce fruit.

- B. Mature plants with blooms or fruit must be removed by bagging the plant then digging up the entire plant and root system. Do not pull the plant up because this will leave roots that may sprout new plants.***

Dispose of the plants and all fruit pods by incineration. Do not mow plants with blooms or fruit.

This removal and treatment process is presented exactly as it is written in the District One Tropical Soda Apple Policy. Thank you for the opportunity to review the proposed specification changes. Please do not hesitate to call, if I can be of any further assistance.

Sincerely,

Nancy de la Rosa
V.P. Operations

CC: Andy Swart

Duane F Brautigam

12/05/2003 08:16 AM

To: Clinton Shaw/CO/FDOT@FDOT
cc:
Subject: Data posted to form 1 of http:
//www.dot.state.fl.us/specificationsoffice/IndustryReview.htm

Duane F. Brautigam, P.E.
State Specifications Engineer
Florida Department of Transportation
(850) 414-4130; SC 994-4130
duane.brautigam@dot.state.fl.us

----- Forwarded by Duane F Brautigam/CO/FDOT on 12/05/2003 08:16 AM -----

<webmaster@dot.state.fl.us>

12/05/2003 08:15 AM

To: <duane.brautigam@dot.state.fl.us>
cc:
Subject: Data posted to form 1 of http:
//www.dot.state.fl.us/specificationsoffice/IndustryReview.htm

File: D5750000.D01 - Sodding
Username: Paul A. Grochowski
UserEmail: Paul.Grochowski@dot.state.fl.us
UserTel: 352-381-4200
UserFAX: 352-381-4250
ContactRequested:
Remote Name: 156.75.20.242
Remote User:

Comments:

My concern in section 575-3.4 is when sod is placed during the winter months. 30 days will be exceeded during this non-grow season on a regular basis to determine if noxious/pest plants are present. I feel this will open the department up for increased cost due to having to compensate the contractor when the growing season comes about. Recommend we make mention of exception during non-grow season.

Donald Duncan

11/19/2003 10:43 AM

To: Clinton Shaw/CO/FDOT@FDOT, John H Owens/CO/FDOT@FDOT
cc: L Alan Reese/CO/FDOT@FDOT, Frances Thomas/CO/FDOT@FDOT
Subject: Re: Industry Review for D5750000.D01 - Sodding

In addition to Alan's comments, Frances Thomas has this comment, She is not sure why Construction is doing this. 981 is already a requirement and the changed section seems to be a remedy for not having quality sod rather than enforcing what already exists.

Donald O. Duncan
Maintenance Specifications Manager
Florida Department of Transportation
State Maintenance Office MS 52
(850)-410-5757 SC 210-5757

----- Forwarded by Donald Duncan/CO/FDOT on 11/18/2003 07:39 AM -----

L Alan Reese

11/17/2003 05:12 PM

To: Donald Duncan/CO/FDOT@FDOT
cc: Frances Thomas/CO/FDOT@FDOT
Subject: Re: Industry Review for D5750000.D01 - Sodding

Depending on the time of the year that the sod is placed, the location of the planting in the State and the species of noxious plants in the sod, 30 days is not enough time to make the determination as to whether the noxious plants were already in the sod when placed. If the time period is left at 30 days, I think that this is a worthless change to this specification.

L. Alan Reese
State Maintenance Office
Contracts and Agreements Administrator
MT954AR
lalan.reese@dot.state.fl.us
Phone Number 850-410-5757
Fax Number 850-410-5511



ROUTED 11/13/2003
J.A.D.

Florida Department of Transportation

JEB BUSH
GOVERNOR

605 Suwannee Street
Tallahassee, FL 32399-0450

JOSÉ ABREU
SECRETARY

MEMORANDUM

DATE: November 13, 2003

TO: Specification Review Distribution List

FROM: Duane F. Brautigam, P.E., State Specifications Engineer 

SUBJECT: **Proposed Specifications Change: D5750000.D01 - Sodding**

In accordance with Specification Development Procedures, we are sending you a copy of a proposed specification change to Sodding.

This change was proposed by David Sadler of the State Construction Office to require certification from the producer that sod be in accordance with the requirements of 981-2.

Please share this proposal with others within your responsibility. Review comments are due within four weeks and should be sent to Mail Station 75 or to my attention via e-mail at SP965DB or duane.brautigam@dot.state.fl.us. Comments received after December 11, 2003 may not be considered. Your input is encouraged.

DFB/sh

Attachment

COMMENTS:

Submitted by:

Phone #:

SODDING.
(REV 11-7-03)

SECTION 575 (Pages 668-670) is deleted and the following substituted:

SECTION 575
SODDING

575-1 Description.

Establish a stand of grass within the specified areas, by furnishing and placing sod, and rolling, fertilizing, watering, and maintaining the sodded areas to ensure a healthy stand of grass.

575-2 Materials.

Meet the following requirements:

Sod	981-2
Fertilizer, Type I	Section 982
Water	Section 983

575-3 Construction Methods.

575-3.1 Preparation of Ground: Fertilize at the rate as shown in Section 570. Scarify or loosen the areas requiring sod to a depth of 6 inches [150 mm]. On areas where the soil is sufficiently loose, particularly on shoulders and fill slopes, the Engineer may authorize the elimination of the ground preparation. Limit preparation to those areas that can be sodded within 72 hours after preparation. Prior to sodding, thoroughly water areas and allow water to percolate into the soil. Allow surface moisture to dry before sodding to prevent a muddy soil condition.

575-3.2 Placing Sod: Place sod immediately after ground preparation. Do not use sod which has been cut for more than 72 hours. Stack all sod that is not planted within 24 hours after cutting and maintain proper moist condition.

Do not sod when weather and soil conditions are unsuitable for proper results. Pre-wet the area prior to placing sod. Do not place sod on eroded or washed out sites.

Place the sod on the prepared surface, with edges in close contact, and embed it firmly and smoothly by light tamping with appropriate tools.

Place the sod to the edge of all the paving and shrub areas and 1 inch [25 mm] below adjoining pavement with an even surface and edge. Place rolled sod parallel with the roadway and cut any exposed netting even with the sod edge.

Roll using a lightweight turf roller. Provide a true and even surface without any displacement of the sod or deformation.

Where sodding in drainage ditches, stagger the setting of the sod pieces to avoid a continuous seam along the line of flow. Ensure that the offsets of individual strips do not exceed 6 inches [150 mm]. Tamp the outer pieces of sod to produce a featheredge effect.

Peg sod at locations where the sod may slide. Drive pegs through sod blocks into firm earth, at intervals approved by the Engineer.

Remove any sod as directed by the Engineer.

575-3.3 Watering: Thoroughly water the sod immediately after placing. Do not water in excess of 1 inch [25 mm] per week for establishment.

575-3.4 Maintenance: Maintain the sodded areas in a satisfactory condition until final acceptance of the project. Include in such maintenance the filling, leveling, and repairing of any washed or eroded areas, as may be necessary. The Department will pay for resodding necessary due to factors determined to be beyond the control of the Contractor.

Mow the sodded areas to a height of 6 inches [150 mm] when competing vegetation height exceeds 20 inches [500 mm] in height.

Monitor placed sod for growth of pest plants and noxious weeds. If pest plants and/or noxious weeds manifest themselves within 30 days of placement of the sod, treat affected areas by means acceptable to the Department at no expense to the Department. If pest plants and/or noxious weeds manifest themselves after 30 days from date of placement of sod, the Engineer, at his sole option, will determine if treatment is required and whether or not the Contractor will be compensated for such treatment. If compensation is provided, payment will be made as unforeseeable work as described in 4-4.

575-4 Method of Measurement.

The quantities to be paid for will be for the following items, completed and accepted:

- (1) The area, in square yards [square meters], of sodding.
- (2) The weight, in tons [metric tons], of fertilizer.
- (3) The volume, in thousand gallons [kiloliters], of water.
- (4) The area, in acres [hectares], of mowing.

575-5 Basis of Payment.

Prices and payments will be full compensation for all work and materials specified in this.

Section, and the satisfactory disposal of excavated material, except the furnishing of the fertilizer, and the furnishing and application of the water.

Fertilizer and water will be paid for as specified in 570-6.

The work and materials for pegging of sod, directed by the Engineer (as provided in 575-3.2), will be paid for as Unforeseeable Work.

Payment will be made under:

Item No. 104- 4-	Mowing - per acre.
Item No. 2104- 4-	Mowing - per hectare.
Item No. 570- 5-	Fertilizer - per ton.
Item No. 2570- 5-	Fertilizer - per metric ton.
Item No. 570- 9-	Water for Grassing - per thousand gallons.
Item No. 2570- 9-	Water for Grassing - per kiloliter.
Item No. 575- 1-	Sodding - per square yard.
Item No. 2575- 1-	Sodding - per square meter.



Duane F Brautigam
11/12/2003 12:20 PM

To: Shirley Harvey/CO/FDOT@FDOT
cc:
Subject: Re: Bad Weeds

fyi

Duane F. Brautigam, P.E.
State Specifications Engineer
Florida Department of Transportation
(850) 414-4130; SC 994-4130
duane.brautigam@dot.state.fl.us

----- Forwarded by Duane F Brautigam/CO/FDOT on 11/12/2003 12:20 PM -----



David Sadler
11/12/2003 12:07 PM

To: Duane F Brautigam/CO/FDOT@FDOT
cc:
Subject: Re: Bad Weeds 

Good language for bad weeds! This should work very nicely.

Please let me know if you have any questions.

David A. Sadler, P.E.
Construction Engineer
(850)414-5203, SC 994-5203
Lotus Notes FAX (850)412-8021
Fax Machine (850)414-4874, SC 994-4874
userid: cn982da email: david.sadler@dot.state.fl.us
Duane F Brautigam



Duane F Brautigam
11/12/2003 12:04 PM

To: David Sadler/CO/FDOT@FDOT
cc:
Subject: Bad Weeds

Can you live with tis language???



BadWeeds.doc

Duane F. Brautigam, P.E.
State Specifications Engineer
Florida Department of Transportation
(850) 414-4130; SC 994-4130
duane.brautigam@dot.state.fl.us

Monitor placed sod for growth of pest plants and noxious weeds. If ~~these~~ pest plants and/or noxious weeds manifest themselves within 30 days of placement of the sod, treat affected areas ~~in~~by means acceptable to the Department at no expense to the Department. If ~~these undesirable plants~~ *pest plants and/or noxious weeds* manifest themselves after 30 days from date of placement of *the* sod, the *Engineer, at his sole option, will determine if treatment is required and whether or not the Contractor will be compensated for such treatment. If compensation is provided, payment will be made as unforeseeable work as described in 4-4.* ~~Department may compensate the Contractor for the treatment of these plants and compensate the Contractor pursuant to Subarticle 4-4.~~

(Clean Version)

Monitor placed sod for growth of pest plants and noxious weeds. If pest plants and/or noxious weeds manifest themselves within 30 days of placement of the sod, treat affected areas by means acceptable to the Department at no expense to the Department. If pest plants and/or noxious weeds manifest themselves after 30 days from date of placement of the sod, the Engineer, at his sole option, will determine if treatment is required and whether or not the Contractor will be compensated for such treatment. If compensation is provided, payment will be made as unforeseeable work as described in 4-4.

Monitor placed sod for growth of pest plants and noxious weeds. If ~~these~~ pest plants and/or noxious weeds manifest themselves within 30 days of placement of the sod, treat affected areas ~~in~~ by means acceptable to the Department at no expense to the Department. If ~~these undesirable plants~~ pest plants and/or noxious weeds manifest themselves after 30 days from date of placement of the sod, the Engineer, at his sole option, will determine if treatment is required and whether or not the Contractor will be compensated for such treatment. If compensation is provided, payment will be made as unforeseeable work as described in 4-4. ~~Department may compensate the Contractor for the treatment of these plants and compensate the Contractor pursuant to Subarticle 4-4.~~

(Clean Version)

Monitor placed sod for growth of pest plants and noxious weeds. If pest plants and/or noxious weeds manifest themselves within 30 days of placement of the sod, treat affected areas by means acceptable to the Department at no expense to the Department. If pest plants and/or noxious weeds manifest themselves after 30 days from date of placement of the sod, the Engineer, at his sole option, will determine if treatment is required and whether or not the Contractor will be compensated for such treatment. If compensation is provided, payment will be made as unforeseeable work as described in 4-4.

Shirley - Please use this language instead of what Dave wrote. (I questioned something; we talked.)
(He has blessed this version.)

Mr. RB

~~See this~~ Annual treatment

Mow the sodded areas to a height of 6 inches [150 mm] when competing vegetation height exceeds 20 inches [500 mm] in height.

and
Monitor placed sod for growth of pest plants and noxious weeds. If these pest plants and/or noxious weeds manifest themselves within 30 days of placement of the sod, treat affected areas ⁱⁿ means acceptable to the Department, at no expense to the Department. ~~When~~ ^{When} undesirable plants manifest themselves after 30 days from date of placement of sod, ~~the~~ ^{After 30 days, the} Department may compensate the Contractor for the treatment of these plants and compensate the Contractor pursuant to ~~Section~~ 4-4, for treatment thereafter.

575-4 Method of Measurement.

The quantities to be paid for will be for the following items, completed and accepted:

- (1) The area, in square yards [square meters], of sodding.
- (2) The weight, in tons [metric tons], of fertilizer.
- (3) The volume, in thousand gallons [kiloliters], of water.
- (4) The area, in acres [hectares], of mowing.

See
att

575-5 Basis of Payment.

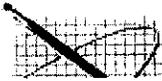
Prices and payments will be full compensation for all work and materials specified in this Section, and the satisfactory disposal of excavated material, except the furnishing of the fertilizer, and the furnishing and application of the water.

Fertilizer and water will be paid for as specified in 570-6.

The work and materials for pegging of sod, directed by the Engineer (as provided in 575-3.2), will be paid for as Unforeseeable Work.

Payment will be made under:

- | | |
|-------------------|--|
| Item No. 104- 4- | Mowing - per acre. |
| Item No. 2104- 4- | Mowing - per hectare. |
| Item No. 570- 5- | Fertilizer - per ton. |
| Item No. 2570- 5- | Fertilizer - per metric ton. |
| Item No. 570- 9- | Water for Grassing - per thousand gallons. |
| Item No. 2570- 9- | Water for Grassing - per kiloliter. |
| Item No. 575- 1- | Sodding - per square yard. |
| Item No. 2575- 1- | Sodding - per square meter. |



Clinton Shaw

11/06/2003 04:51 PM

To: Shirley Harvey/CO/FDOT@FDOT
cc:
Subject: 575 Sodding Spec

Good morning Ms Shirl,

The new version of 575 is in the Develop folder, I have renamed it D5750000.D01 if that is OK.

Thanks

Clinton J. Shaw

(850) 414-4129 SC 994-4129

Clinton.Shaw@dot.state.fl.us

----- Forwarded by Clinton Shaw/CO/FDOT on 11/06/2003 04:49 PM -----



David Sadler

11/05/2003 04:09 PM

To: Clinton Shaw/CO/FDOT@FDOT
cc: Ananth Prasad/CO/FDOT@FDOT, Jeff Caster/CO/FDOT@FDOT
Subject: 575 Sodding Spec

Clinton,

This is the revised version of the sodding spec. Sections 007 and 981 that were originally submitted as part of this change no longer need revision.



d575sod treatment language 11-5-03.

Do you need a revised origination form or will the previously submitted one suffice?

Please let me know if you have any questions.

David A. Sadler, P.E.

Construction Engineer

(850)414-5203, SC 994-5203

Lotus Notes FAX (850)412-8021

Fax Machine (850)414-4874, SC 994-4874

userid: cn982da email: david.sadler@dot.state.fl.us

**SECTION 575
SODDING**

575-1 Description.

Establish a stand of grass within the specified areas, by furnishing and placing sod, and rolling, fertilizing, watering, and maintaining the sodded areas to ensure a healthy stand of grass.

575-2 Materials.

Meet the following requirements:

Sod	981-2
Fertilizer, Type I	Section 982
Water.....	Section 983

575-3 Construction Methods.

575-3.1 Preparation of Ground: Fertilize at the rate as shown in Section 570. Scarify or loosen the areas requiring sod to a depth of 6 inches [150 mm]. On areas where the soil is sufficiently loose, particularly on shoulders and fill slopes, the Engineer may authorize the elimination of the ground preparation. Limit preparation to those areas that can be sodded within 72 hours after preparation. Prior to sodding, thoroughly water areas and allow water to percolate into the soil. Allow surface moisture to dry before sodding to prevent a muddy soil condition.

575-3.2 Placing Sod: Place sod immediately after ground preparation. Do not use sod which has been cut for more than 72 hours. Stack all sod that is not planted within 24 hours after cutting and maintain proper moist condition.

Do not sod when weather and soil conditions are unsuitable for proper results. Pre-wet the area prior to placing sod. Do not place sod on eroded or washed out sites.

Place the sod on the prepared surface, with edges in close contact, and embed it firmly and smoothly by light tamping with appropriate tools.

Place the sod to the edge of all the paving and shrub areas and 1 inch [25 mm] below adjoining pavement with an even surface and edge. Place rolled sod parallel with the roadway and cut any exposed netting even with the sod edge.

Roll using a lightweight turf roller. Provide a true and even surface without any displacement of the sod or deformation.

Where sodding in drainage ditches, stagger the setting of the sod pieces to avoid a continuous seam along the line of flow. Ensure that the offsets of individual strips do not exceed 6 inches [150 mm]. Tamp the outer pieces of sod to produce a featheredge effect.

Peg sod at locations where the sod may slide. Drive pegs through sod blocks into firm earth, at intervals approved by the Engineer.

Remove any sod as directed by the Engineer.

575-3.3 Watering: Thoroughly water the sod immediately after placing. Do not water in excess of 1 inch [25 mm] per week for establishment.

575-3.4 Maintenance: Maintain the sodded areas in a satisfactory condition until final acceptance of the project. Include in such maintenance the filling, leveling, and repairing of any washed or eroded areas, as may be necessary. The Department will pay for resodding necessary due to factors determined to be beyond the control of the Contractor.

Mow the sodded areas to a height of 6 inches [150 mm] when competing vegetation height exceeds 20 inches [500 mm] in height.

Monitor placed sod for growth of pest plants and noxious weeds. If these pest plants and/or noxious weeds manifest themselves within 30 days of placement of the sod, treat affected areas in means acceptable to the Department at no expense to the Department. If these undesirable plants manifest themselves after 30 days from date of placement of sod, the

Department may compensate the Contractor for the treatment of these plants and compensate the Contractor pursuant to Subarticle 4-4.

575-4 Method of Measurement.

The quantities to be paid for will be for the following items, completed and accepted:

- (1) The area, in square yards [square meters], of sodding.
- (2) The weight, in tons [metric tons], of fertilizer.
- (3) The volume, in thousand gallons [kiloliters], of water.
- (4) The area, in acres [hectares], of mowing.

575-5 Basis of Payment.

Prices and payments will be full compensation for all work and materials specified in this Section, and the satisfactory disposal of excavated material, except the furnishing of the fertilizer, and the furnishing and application of the water.

Fertilizer and water will be paid for as specified in 570-6.

The work and materials for pegging of sod, directed by the Engineer (as provided in 575-3.2), will be paid for as Unforeseeable Work.

Payment will be made under:

- Item No. 104- 4- Mowing - per acre.
- Item No. 2104- 4- Mowing - per hectare.
- Item No. 570- 5- Fertilizer - per ton.
- Item No. 2570- 5- Fertilizer - per metric ton.
- Item No. 570- 9- Water for Grassing - per thousand gallons.
- Item No. 2570- 9- Water for Grassing - per kiloliter.
- Item No. 575- 1- Sodding - per square yard.
- Item No. 2575- 1- Sodding - per square meter.



Shirley Harvey
07/10/2003 07:22 AM

To: David Sadler/CO/FDOT
cc:
cc:
Subject: Late Comment - Fwd: Proposed specification change - D5750000 - Sodding

David, I have a late comment that has been forwarded to me for the above referenced subject. If you would consider this comment along with the response from memo dated

Please review the late comment submitted by F. Alan Cummings. Incorporate your response in with the other responses from the comment memo dated May 30, 2003.

shirley harvey
SC 994-4120
(850)414-4120
shirley.harvey@dot.state.fl.us
----- Forwarded by Shirley Harvey/CO/FDOT on 07/10/2003 07:22 AM -----



John H Owens
07/10/2003 06:08 AM

To: Shirley Harvey/CO/FDOT@FDOT
cc:
Subject: Fwd: Proposed specification change - D5750000 - Sodding

Good morning, would you please put this in the file with the other comments, also please forward to the originator.

Thank You, Have A Great Day,

John H. Owens

F.D.O.T. Specifications Office
(850) 414-4113 Fax (850) 413-7385

E-Mail: john.owens@dot.state.fl.us



----- Forwarded by John H Owens/CO/FDOT on 07/10/2003 06:06 AM -----



SwartsLand@aol.com
07/09/2003 11:35 AM

To: john.owens@dot.state.fl.us
cc:
Subject: Fwd: Proposed specification change - D5750000 - Sodding

I am resending my message because I want to be absolutely sure you receive it. Could you please e-mail back that you got it? I would appreciate it greatly-
Thank you, Nancy de la Rosa

----- Message from SwartsLand@aol.com on Wed, 09 Jul 2003 11:29:40 -0400 -----

To: John.owens@dot.state.fl.us

Subject: Fwd: Proposed specification change - D5750000 - Sodding

John-
Please open attachment and our comments about the 575 Sodding spec change from May 26th are below the forwarded message. Please post in the comments section

for review.
Thank you,
Nancy de la Rosa

----- Message from "Bob Burleson" <bburleson@ftba.com> on Wed, 9 Jul 2003 11:21:05 -0400 -----

To: <SwartsLand@aol.com>

Subject: RE: Proposed specification change - D5750000 - Sodding

is this what you want?

-----Original Message-----

From: SwartsLand@aol.com [mailto:SwartsLand@aol.com]
Sent: Thursday, May 29, 2003 4:03 PM
To: duane.brautigam@dot.state.fl.us
Cc: Bob Burleson; FACummings@SmithCurrie.com
Subject: Proposed specification change - D5750000 - Sodding

This review is respectfully submitted by:
Nancy B. de la Rosa
Swart's Landscaping, Inc.
450 Deen Still Rd.
Davenport, Fl 33897
863-424-6222
863-424-6811

The purpose of the self certification program is to place the responsibility of TSA plants growing in the new sod on the provider of the sod. Unfortunately, the self certification does not address or eliminate the other vectors that TSA can be introduced into a project. The onus will still be on the Department to prove that the plants originated in the sod. And if at the time of installation the Department did not physically reject the sod because of visible TSA plants, the sod provider is still in accordance with section 981-2.

Our suggestion is that the Department create a pay item for herbicide/noxious weed removal. At the time the sod is brought onto the project, it must pass the inspection of the owner and come from a field that has a current Division of Plant Industry inspection. If the criteria is met, and still TSA plants emerge on the project, then the contractor will be compensated for their removal under an herbicide/noxious weed removal pay item.

The bottom line is that TSA is a statewide, multi-industry epidemic that must be controlled without pointing fingers. It is impossible to assign culpability to one sector of a multi-level and multi-faceted problem. The state must recognize that a self certification program does not prevent dishonest individuals from knowingly using sod with TSA. As long as there is the window of introduction through other vectors, the problem and the finger pointing will continue.



Shirley Harvey

06/16/2003 07:58 AM

To: David Sadler/CO/FDOT@FDOT
cc: Clinton Shaw/CO/FDOT@FDOT
Subject: Re: Late Comment on Proposed Spec D5750000 - Sodding

David, we can put this spec on hold until you decide what you want to do. However, if there are a extensive changes we will have to send it back for Industry Review and it will not make it in time for January 2004 workbook.

Is it just this one spec or are we talking about D0070013 and D981000 as well? Please advise...

If you have any questions please call.

Thanks,
shirley harvey
SC 994-4120
(850)414-4120
shirley.harvey@dot.state.fl.us
David Sadler



David Sadler

06/13/2003 11:53 AM

To: Shirley Harvey/CO/FDOT@FDOT
cc:
Subject: Re: Late Comment on Proposed Spec D5750000 - Sodding

Shirley,

I had received these comments earlier. Ananth and I have talked about these specs and have decided that we are going to hold off making these changes and do more research on the issue of TSA. What do I need to do with all of the comments? Can we just post that we are going to hold off on this and do more research into the issue?

Please let me know if you have any questions.

David A. Sadler, P.E.
Construction Engineer
(850)414-5203, SC 994-5203
FAX (850)412-8021, SC 994-8021
userid: cn982da email: david.sadler@dot.state.fl.us
Shirley Harvey



Shirley Harvey

06/13/2003 11:33 AM

To: David Sadler/CO/FDOT@FDOT
cc:
Subject: Late Comment on Proposed Spec D5750000 - Sodding



F. Alan Cummings.dc

Please review the late comment submitted by F. Alan Cummings. Incorporate your response in with the other responses from the comment memo dated May 30, 2003.

If you have any questions please call.

Thanks,
shirley harvey

SC 994-4120
(850)414-4120
shirley.harvey@dot.state.fl.us



Shirley Harvey

06/13/2003 11:30 AM

To: David Sadler/CO/FDOT

cc:

cc:

Subject: Late Comment on Proposed Spec D5750000 - Sodding



F. Alan Cummings.dc

Please review the late comment submitted by F. Alan Cummings. Incorporate your response in with the other responses from the comment memo dated May 30, 2003.

If you have any questions please call.

Thanks,
shirley harvey
SC 994-4120
(850)414-4120
shirley.harvey@dot.state.fl.us

Duane F Brautigam

05/30/2003 07:10 AM

To: Clinton Shaw/CO/FDOT@FDOT
cc: bburleson@ftba.com
Subject: Proposed Specifications Changes - D0070013, D5750000, D9810000

Duane F. Brautigam, P.E.
State Specifications Engineer
Florida Department of Transportation
(850) 414-4130; SC 994-4130
duane.brautigam@dot.state.fl.us

----- Forwarded by Duane F Brautigam/CO/FDOT on 05/30/2003 07:09 AM -----

"F. Alan Cummings"

<facummings@smithcurrie.com>

05/29/2003 05:28 PM

To: <duane.brautigam@dot.state.fl.us>
cc: <SwartsLand@aol.com>
Subject: Proposed Specifications Changes - D0070013, D5750000,
D9810000

Subject: Proposed Specifications Changes
D0070013 - Legal Requirements & Responsibility
to the Public - Introduction or Release of
Prohibited Aquatic Plants, Plant Pests, or
Noxious Weeds; D5750000 - Sodding;
D9810000 - Grassing and Sodding Materials

Comments:

The proposed requirement that the producer of sod certify that it is free of Tropical Soda Apple (TSA) will not accomplish the Department's intended results, and more than likely is unworkable. The producer, the sod grower, will not be the absolute guarantor that the sod is free of TSA except at that one moment when the sod leaves the field. Thereafter, TSA may be introduced into the sod from varying sources. Hence, if TSA is not observed at the time it is loaded onto pallets and delivered to the project, the producer will be safe in the assertion that the sod was free of TSA. It will be practically impossible for the Department to prove otherwise.

Should TSA appear in the sod during the course of construction, the Department may choose, as it has done in the past, to take the position that the certification was erroneous. The Department may take the follow-up position that it will withhold payment from the contractor unless the contractor makes arrangements to guaranty that the sod will be free of TSA for a defined period of time. Such a position is certain to be challenged, and it is a position which the Department cannot successfully defend. There simply are too many creditable people who

are willing to testify that TSA can be readily introduced into the sod after it has been placed at the project. Hence, in most cases an attempt by the Department to enforce the certification will only create legal and factual disputes. In most cases the contractor and the producer will prevail because of the Department's inability to sustain its position through proof.

Armed with this knowledge, some producers will simply make the certification without concern for its integrity. Others may refuse to make the certification because they refuse to be viewed by the Department as guarantors of TSA free sod during the life of the construction project. It is recommended that a certification requirement of the producer be accompanied with a pay item in the contract for compensating the contractor for treating the sod during the course of construction. The sod should be inspected at the time that it is placed on the project in order to verify the certification.

Submitted by:

F. Alan Cummings
Smith, Currie & Hancock LLP
1004 Desoto Park Drive
Tallahassee, Florida 32301
Telephone: (850) 878-3700
Facsimile: (850) 656-0329
Attorneys for Swart's Landscaping, Inc.



Shirley Harvey

08/02/2003 07:31 AM

To: David Sadler/CO/FDOT

cc:

Subject: Comments on Proposed Spec D5750000 - Sodding.



D5750000.doc

Please review the comments received from Industry Review and submit any changes you think is needed.

If you have any questions please call.

Thanks,
shirley harvey
SC 994-4120
(850)414-4120
shirley.harvey@dot.state.fl.us



Florida Department of Transportation

JEB BUSH
GOVERNOR

605 Suwannee Street
Tallahassee, FL 32399-0450

JOSÉ ABREU
SECRETARY

MEMORANDUM

DATE: May 30, 2003
TO: David Sadler, State Construction Office
FROM: Clinton J. Shaw, State Specifications Office 
SUBJECT: **Proposed Modifications To Specification: D5750000 - Sodding**

Comments received, regarding the subject modification to the Standard Specifications, are attached. Please review these comments and advise of any further modifications by June 13, 2003. Also, please submit an electronic summary, of your decisions concerning these comment(s) in memorandum format. This summary will be posted on the State Specifications Office Web Page and included in the Specifications folder for future reference, should someone question your response. Your assistance will be appreciated.

Please Email submittals to SP965CS or clinton.shaw@dot.state.fl.us.

CS/sh

Attachment

SODDING.
(REV 4-23-03)

SECTION 575 (Pages 668-670) is deleted and the following substituted:

SECTION 575
SODDING

575-1 Description.

Establish a stand of grass within the specified areas, by furnishing and placing sod, and rolling, fertilizing, watering, and maintaining the sodded areas to ensure a healthy stand of grass.

575-2 Materials.

Meet the following requirements:

Sod.....	981-2
Fertilizer, Type I.....	Section 982
Water	Section 983

575-3 Construction Methods.

575-3.1 Preparation of Ground: Fertilize at the rate as shown in Section 570. Scarify or loosen the areas requiring sod to a depth of 6 inches [150 mm]. On areas where the soil is sufficiently loose, particularly on shoulders and fill slopes, the Engineer may authorize the elimination of the ground preparation. Limit preparation to those areas that can be sodded within 72 hours after preparation. Prior to sodding, thoroughly water areas and allow water to percolate into the soil. Allow surface moisture to dry before sodding to prevent a muddy soil condition.

575-3.2 Placing Sod: *Prior to incorporation of any sod into the project, furnish to the Engineer, certification from the producer of the sod in accordance with the requirements of 981-2.* Place sod immediately after ground preparation. Do not use sod ~~which~~ that has been cut for more than 72 hours. Stack all sod that is not planted within 24 hours after cutting and maintain proper moist condition. ~~Furnish the Engineer, prior to incorporation into the project, with a certification from the producer in accordance with section 981-2, stating that the sod is free of noxious weeds, including Tropical Soda Apple. Such certification must be made by an officer or director of the producer with the authority to bind the producer.~~

Do not sod when weather and soil conditions are unsuitable for proper results. Pre-wet the area prior to placing sod. Do not place sod on eroded or washed out sites.

Place the sod on the prepared surface, with edges in close contact, and embed it firmly and smoothly by light tamping with appropriate tools.

Place the sod to the edge of all the paving and shrub areas and 1 inch [25 mm] below adjoining pavement with an even surface and edge. Place rolled sod parallel with the roadway and cut any exposed netting even with the sod edge.

Roll using a lightweight turf roller. Provide a true and even surface without any displacement of the sod or deformation.

Where sodding in drainage ditches, stagger the setting of the sod pieces to avoid a continuous seam along the line of flow. Ensure that the offsets of individual strips do not exceed 6 inches [150 mm]. Tamp the outer pieces of sod to produce a featheredge effect.

Peg sod at locations where the sod may slide. Drive pegs through sod blocks into firm earth, at intervals approved by the Engineer.

Remove any sod as directed by the Engineer.

575-3.3 Watering: Thoroughly water the sod immediately after placing. Do not apply more than one inch of water per acre [60 mm of water per hectare] per week for establishment.

~~Use watering equipment that will prevent damage to the finished sod surface. Keep the sod in a moist condition for the duration of the Contract period.~~

575-3.4 Maintenance: Maintain the sodded areas in a satisfactory condition until final acceptance of the project. Include in such maintenance the filling, leveling, and repairing of any washed or eroded areas, as may be necessary. The Department will pay for resodding necessary due to factors determined to be beyond the control of the Contractor.

Mow the sodded areas to a height of 6 inches [150 mm] when competing vegetation height exceeds 20 inches [500 mm] in height.

575-4 Method of Measurement.

The quantities to be paid for will be for the following items, completed and accepted:

- (1) The area, in square yards [square meters], of sodding.
- (2) The weight, in tons [metric tons], of fertilizer.
- (3) The volume, in thousand gallons [kiloliters], of water.
- (4) The area, in acres [hectares], of mowing.

575-5 Basis of Payment.

Prices and payments will be full compensation for all work and materials specified in this Section, and the satisfactory disposal of excavated material, except the furnishing of the fertilizer, and the furnishing and application of the water.

Fertilizer and water will be paid for as specified in 570-6.

The work and materials for pegging of sod, directed by the Engineer (as provided in 575-3.2), will be paid for as Unforeseeable Work.

Payment will be made under:

- | | |
|-------------------|--|
| Item No. 104- 4- | Mowing - per acre. |
| Item No. 2104- 4- | Mowing - per hectare. |
| Item No. 570- 5- | Fertilizer - per ton. |
| Item No. 2570- 5- | Fertilizer - per metric ton. |
| Item No. 570- 9- | Water for Grassing - per thousand gallons. |
| Item No. 2570- 9- | Water for Grassing - per kiloliter. |
| Item No. 575- 1- | Sodding - per square yard. |
| Item No. 2575- 1- | Sodding - per square meter. |

Duane F Brautigam

05/27/2003 01:15 PM

To: Clinton Shaw/CO/FDOT@FDOT
cc:
Subject: Data posted to form 1 of http:
//www11.myflorida.com/specificationsoffice/IndustryReview.htm

Duane F. Brautigam, P.E.
State Specifications Engineer
Florida Department of Transportation
(850) 414-4130; SC 994-4130
duane.brautigam@dot.state.fl.us

----- Forwarded by Duane F Brautigam/CO/FDOT on 05/27/2003 01:15 PM -----

<webmaster@dot.state.fl.us>

05/27/2003 01:11 PM

To: <duane.brautigam@dot.state.fl.us>
cc:
Subject: Data posted to form 1 of http:
//www11.myflorida.com/specificationsoffice/IndustryReview.htm

File: D5750000 - Sodding
Username: Mike Milicevic
UserEmail: lbisod@okeechobee.com
UserTel: 8637633041
UserFAX: 8637633244
ContactRequested: ContactRequested
Remote Name: 209.26.211.68
Remote User:

Comments:

The comments about seed free should be stricken due to the impossible task and legal liability a grower has by signing an affidavit. At any time a bird could fly over a FREE field and it is the grower that is at fault. Or it could be a deer, hog or etc. Making the field plant free is doable but not seed free. The second point is making the grower sign the affidavit. The contractor responsible to the state is the one that should have to take the legal

responsibility. A contractor may harvest sod at more than one location and mixing sod on the same job. It would be totally out of the growers realm of responsibility to guarantee what actually may get to the end site. The grower loses control once the product leaves the farm gate and the grower should not be the one for the full liability to the State.

Duane F Brautigam

05/04/2003 04:24 PM

To: Clinton Shaw/CO/FDOT@FDOT
cc:
Subject: Data posted to form 1 of http:
//www11.myflorida.com/specificationsoffice/IndustryReview.htm

Duane F. Brautigam, P.E.
State Specifications Engineer
Florida Department of Transportation
(850) 414-4130; SC 994-4130
duane.brautigam@dot.state.fl.us

----- Forwarded by Duane F Brautigam/CO/FDOT on 05/04/2003 04:24 PM -----

<webmaster@dot.state.fl.us>

05/02/2003 02:11 PM

To: <duane.brautigam@dot.state.fl.us>
cc:
Subject: Data posted to form 1 of http:
//www11.myflorida.com/specificationsoffice/IndustryReview.htm

File: D5750000 - Sodding
Username: Mikhail Dubrovsky
UserEmail: mdubrov@bellsouth.net
UserTel: 305-499-2354
UserFAX: 305-499-2351
ContactRequested:
Remote Name: 156.75.180.212
Remote User:

Comments:

In our District we always include cost of watering and fertilizing in the cost of grassing. We suggest to add to the Basis of Estimates that if no separate payment for watering and fertilizing is provided then the cost to be included in the grassing items.

Duane F Brautigam

05/29/2003 04:03 PM

To: Clinton Shaw/CO/FDOT@FDOT
cc: bburleson@ftba.com
Subject: Proposed specification change - D5750000 - Sodding

Duane F. Brautigam, P.E.
State Specifications Engineer
Florida Department of Transportation
(850) 414-4130; SC 994-4130
duane.brautigam@dot.state.fl.us

----- Forwarded by Duane F Brautigam/CO/FDOT on 05/29/2003 04:03 PM -----

SwartsLand@aol.com

05/29/2003 04:02 PM

To: duane.brautigam@dot.state.fl.us
cc: BBurleson@FTBA.com, FACummings@SmithCurrie.com
Subject: Proposed specification change - D5750000 - Sodding

This review is respectfully submitted by:

Nancy B. de la Rosa
Swart's Landscaping, Inc.
450 Deen Still Rd.
Davenport, Fl 33897
863-424-6222
863-424-6811

The purpose of the self certification program is to place the responsibility of TSA plants growing in the new sod on the provider of the sod. Unfortunately, the self certification does not address or eliminate the other vectors that TSA can be introduced into a project.

The onus will still be on the Department to prove that the plants originated in the sod. And if at the time of installation the Department did not physically reject the sod because of visible TSA plants, the sod provider is still in accordance with section 981-2.

Our suggestion is that the Department create a pay item for herbicide/noxious weed removal. At the time the sod is brought onto the project, it must pass the inspection of the owner and come from a field that has a current Division of Plant Industry inspection. If the

criteria is met, and still TSA plants emerge on the project,
than the
contractor will be compensated for their removal under an
herbicide/noxious weed removal pay item.

The bottom line is that TSA is a statewide, multi-industry
epidemic that
must be controlled without pointing fingers. It is impossible to
assign
culpability to one sector of a multi-level and multi-faceted
problem.
The state must recognize that a self certification program does
not
prevent dishonest individuals from knowingly using sod with TSA.
As long
as there is the window of introduction through other vectors, the
problem
and the finger pointing will continue.



POSTED 5/1/2003
J.A.D.

Florida Department of Transportation

JEB BUSH
GOVERNOR

605 Suwannee Street
Tallahassee, FL 32399-0450

JOSÉ ABREU
SECRETARY

MEMORANDUM

DATE: May 1, 2003

TO: Specification Review Distribution List

FROM: Duane F. Brautigam, P.E., State Specifications Engineer 

SUBJECT: Proposed Specifications Change – D5750000 - Sodding

In accordance with Specification Development Procedures, we are sending you a copy of a proposed specification change to Sodding.

This change was proposed by David Sadler to require certification from the producer, that sod be in accordance with the requirements of 981-2.

Please share this proposal with others within your responsibility. Review comments are due within four weeks and should be sent to Mail Station 75 or to my attention via e-mail at SP965DB or duane.brautigam@dot.state.fl.us. Comments received after May 29, 2003 may not be considered. Your input is encouraged.

DFB/sh

Attachment

COMMENTS:

Submitted by: _____ Phone #: _____

SODDING.
(REV 4-23-03)

SECTION 575 (Pages 668-670) is deleted and the following substituted:

SECTION 575
SODDING

575-1 Description.

Establish a stand of grass within the specified areas, by furnishing and placing sod, and rolling, fertilizing, watering, and maintaining the sodded areas to ensure a healthy stand of grass.

575-2 Materials.

Meet the following requirements:

Sod.....	981-2
Fertilizer, Type I.....	Section 982
Water.....	Section 983

575-3 Construction Methods.

575-3.1 Preparation of Ground: Fertilize at the rate as shown in Section 570. Scarify or loosen the areas requiring sod to a depth of 6 inches [150 mm]. On areas where the soil is sufficiently loose, particularly on shoulders and fill slopes, the Engineer may authorize the elimination of the ground preparation. Limit preparation to those areas that can be sodded within 72 hours after preparation. Prior to sodding, thoroughly water areas and allow water to percolate into the soil. Allow surface moisture to dry before sodding to prevent a muddy soil condition.

575-3.2 Placing Sod: *Prior to incorporation of any sod into the project, furnish to the Engineer, certification from the producer of the sod in accordance with the requirements of 981-2.* Place sod immediately after ground preparation. Do not use sod ~~which~~ that has been cut for more than 72 hours. Stack all sod that is not planted within 24 hours after cutting and maintain proper moist condition. ~~Furnish the Engineer, prior to incorporation into the project, with a certification from the producer in accordance with section 981-2, stating that the sod is free of noxious weeds, including Tropical Soda Apple. Such certification must be made by an officer or director of the producer with the authority to bind the producer.~~

Do not sod when weather and soil conditions are unsuitable for proper results. Pre-wet the area prior to placing sod. Do not place sod on eroded or washed out sites.

Place the sod on the prepared surface, with edges in close contact, and embed it firmly and smoothly by light tamping with appropriate tools.

Place the sod to the edge of all the paving and shrub areas and 1 inch [25 mm] below adjoining pavement with an even surface and edge. Place rolled sod parallel with the roadway and cut any exposed netting even with the sod edge.

Roll using a lightweight turf roller. Provide a true and even surface without any displacement of the sod or deformation.

Where sodding in drainage ditches, stagger the setting of the sod pieces to avoid a continuous seam along the line of flow. Ensure that the offsets of individual strips do not exceed 6 inches [150 mm]. Tamp the outer pieces of sod to produce a featheredge effect.

Peg sod at locations where the sod may slide. Drive pegs through sod blocks into firm earth, at intervals approved by the Engineer.

Remove any sod as directed by the Engineer.

575-3.3 Watering: Thoroughly water the sod immediately after placing. Do not apply more than one inch of water per acre [60 mm of water per hectare] per week for establishment.

~~Use watering equipment that will prevent damage to the finished sod surface. Keep the sod in a moist condition for the duration of the Contract period.~~

575-3.4 Maintenance: Maintain the sodded areas in a satisfactory condition until final acceptance of the project. Include in such maintenance the filling, leveling, and repairing of any washed or eroded areas, as may be necessary. The Department will pay for resodding necessary due to factors determined to be beyond the control of the Contractor.

Mow the sodded areas to a height of 6 inches [150 mm] when competing vegetation height exceeds 20 inches [500 mm] in height.

575-4 Method of Measurement.

The quantities to be paid for will be for the following items, completed and accepted:

- (1) The area, in square yards [square meters], of sodding.
- (2) The weight, in tons [metric tons], of fertilizer.
- (3) The volume, in thousand gallons [kiloliters], of water.
- (4) The area, in acres [hectares], of mowing.

575-5 Basis of Payment.

Prices and payments will be full compensation for all work and materials specified in this Section, and the satisfactory disposal of excavated material, except the furnishing of the fertilizer, and the furnishing and application of the water.

Fertilizer and water will be paid for as specified in 570-6.

The work and materials for pegging of sod, directed by the Engineer (as provided in 575-3.2), will be paid for as Unforeseeable Work.

Payment will be made under:

Item No. 104- 4-	Mowing - per acre.
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Item No. 570- 5-	Fertilizer - per ton.
Item No. 2570- 5-	Fertilizer - per metric ton.
Item No. 570- 9-	Water for Grassing - per thousand gallons.
Item No. 2570- 9-	Water for Grassing - per kiloliter.
Item No. 575- 1-	Sodding - per square yard.
Item No. 2575- 1-	Sodding - per square meter.



Shirley Harvey

04/23/2003 03:51 PM

To: bburleson@ftba.com, acarlisle@ftba.com, Brian A
Blanchard/CO/FDOT@FDOT, Phillip G Davis/CO/FDOT@FDOT, Clay
McGonagill/CO/FDOT@FDOT, William N Nickas/CO/FDOT@FDOT
cc: Robert Robertson/CO/FDOT@FDOT, David Sadler/CO/FDOT@FDOT
Subject: Proposed Specs: D4000572 - Concrete Structures - Materials;
D0070013 - Legal Requirements & Responsibility to the
Public-Introduction or Release of Prohibited Aquatic Plants, Plant
Pests, or Noxious Weeds; D5750000 - Sodding & D9810000 -
Grassing and Sodding Materials



D4000572.doc D0070013.doc ~~D5750000.doc~~ D9810000.doc

Please review the above referenced specs and submit any comments you may have.

If you have any questions please call.

Thanks,
shirley harvey
SC 994-4120
(850)414-4120
shirley.harvey@dot.state.fl.us



Florida Department of Transportation

JEB BUSH
GOVERNOR

605 Suwannee Street
Tallahassee, FL 32399-0450

JOSE ABREU
SECRETARY

MEMORANDUM

DATE: April 23, 2003

TO: Bob Burleson, FTBA, Brian A. Blanchard, State Roadway Design Office,
William N. Nickas, State Structures Design Office, Greg Davis, State Estimates
Office, Clay McGonagill, Office of the General Counsel

COPY TO: David Sadler, State Construction Office

FROM: Clinton J. Shaw, State Specifications Office 

SUBJECT: **Proposed Specification: D5750000 - Sodding**

Attached for your review and comments is a copy of the subject Special Provision for Sodding.

This change was proposed by David Sadler to require certification from the producer, that sod be in accordance with the requirements of 981-2.

Please review and offer your comments.

CS/sh

Attachment

SODDING.
(REV 4-23-03)

SECTION 575 (Pages 668-670) is deleted and the following substituted:

SECTION 575
SODDING

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Roll using a lightweight turf roller. Provide a true and even surface without any displacement of the sod or deformation.

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Peg sod at locations where the sod may slide. Drive pegs through sod blocks into firm earth, at intervals approved by the Engineer.

Remove any sod as directed by the Engineer.

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~~Use watering equipment that will prevent damage to the finished sod surface. Keep the sod in a moist condition for the duration of the Contract period.~~

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Fertilizer and water will be paid for as specified in 570-6.

The work and materials for pegging of sod, directed by the Engineer (as provided in 575-3.2), will be paid for as Unforeseeable Work.

Payment will be made under:

- | | |
|------------------|--|
| Item No. 104-4- | Mowing - per acre. |
| Item No. 2104-4- | Mowing - per hectare. |
| Item No. 570-5- | Fertilizer - per ton. |
| Item No. 2570-5- | Fertilizer - per metric ton. |
| Item No. 570-9- | Water for Grassing - per thousand gallons. |
| Item No. 2570-9- | Water for Grassing - per kiloliter. |
| Item No. 575-1- | Sodding - per square yard. |
| Item No. 2575-1- | Sodding - per square meter. |



David Sadler
04/23/2003 08:45 AM

To: Shirley Harvey/CO/FDOT@FDOT
cc:
Subject: Re: Proposed Spec on D5750000 - Sodding

Thanks. I don't need to see a copy after that change is made.

Please let me know if you have any questions.

David A. Sadler, P.E.
Construction Engineer
(850)414-5203, SC 994-5203
FAX (850)414-4666, SC 994-4666
userid: cn982da email: david.sadler@dot.state.fl.us
Shirley Harvey



Shirley Harvey
04/23/2003 08:44 AM

To: David Sadler/CO/FDOT@FDOT
cc:
Subject: Re: Proposed Spec on D5750000 - Sodding

Sorry David, that was struck out by mistake. I will add it back in. Would you like to see the copy with the text added back in?

Thanks,
shirley harvey
SC 994-4120
(850)414-4120
shirley.harvey@dot.state.fl.us
David Sadler



David Sadler
04/22/2003 04:37 PM

To: Shirley Harvey/CO/FDOT@FDOT
cc:
Subject: Re: Proposed Spec on D5750000 - Sodding

Why was the attached text deleted from the attached version? Was it included somewhere else in the specs?

Place sod immediately after ground preparation. Do not use sod which that has been cut for more than 72 hours. Stack all sod that is not planted within 24 hours after cutting and maintain proper moist condition.

Please let me know if you have any questions.

David A. Sadler, P.E.
Construction Engineer
(850)414-5203, SC 994-5203
FAX (850)414-4666, SC 994-4666
userid: cn982da email: david.sadler@dot.state.fl.us
Shirley Harvey



Shirley Harvey
04/21/2003 11:34 AM

To: David Sadler/CO/FDOT@FDOT
cc:

Subject: Proposed Spec on D5750000 - Sodding



D5750000.doc

Please review/comment on the above referenced spec and let me know if it is ok to continue with the processing.

Thanks,
shirley harvey
SC 994-4120
(850)414-4120
shirley.harvey@dot.state.fl.us



Florida Department of Transportation

JEB BUSH
GOVERNOR

605 Suwannee Street
Tallahassee, FL 32399-0450

JOSÉ ABREU
SECRETARY

MEMORANDUM

DATE: April 21, 2003
TO: David Sadler, State Construction Office
FROM: Clinton J. Shaw, State Specifications Office 
SUBJECT: Proposed Specification: D5750000 - Sodding

Your proposed specification has been formatted and entered for processing. As the originator for this specification, please review the formatted draft and make any necessary changes.

Additionally, please verify the condition under which this specification is to be used (see usage note under specification number).

If you have any questions, please contact Clinton Shaw at (850) 414-4110 or Suncom 994-4110. Your response within two weeks will be appreciated, as further processing is dependent upon your response. We will continue to update you as we process this request for implementation.

CS/sh
Attachment

SODDING.
(REV 4-21-03)

SECTION 575 (Pages 668-670) is deleted and the following substituted:

SECTION 575
SODDING

575-1 Description.

Establish a stand of grass within the specified areas, by furnishing and placing sod, and rolling, fertilizing, watering, and maintaining the sodded areas to ensure a healthy stand of grass.

575-2 Materials.

Meet the following requirements:

Sod.....	981-2
Fertilizer, Type I.....	Section 982
Water	Section 983

575-3 Construction Methods.

575-3.1 Preparation of Ground: Fertilize at the rate as shown in Section 570. Scarify or loosen the areas requiring sod to a depth of 6 inches [150 mm]. On areas where the soil is sufficiently loose, particularly on shoulders and fill slopes, the Engineer may authorize the elimination of the ground preparation. Limit preparation to those areas that can be sodded within 72 hours after preparation. Prior to sodding, thoroughly water areas and allow water to percolate into the soil. Allow surface moisture to dry before sodding to prevent a muddy soil condition.

575-3.2 Placing Sod: *Prior to incorporation of any sod into the project, furnish to the Engineer, certification from the producer of the sod in accordance with the requirements of 981-2. ~~Place sod immediately after ground preparation. Do not use sod which that has been cut for more than 72 hours. Stack all sod that is not planted within 24 hours after cutting and maintain proper moist condition. Furnish the Engineer, prior to incorporation into the project, with a certification from the producer in accordance with section 981-2, stating that the sod is free of noxious weeds, including Tropical Soda Apple. Such certification must be made by an officer or director of the producer with the authority to bind the producer.~~*

Do not sod when weather and soil conditions are unsuitable for proper results. Pre-wet the area prior to placing sod. Do not place sod on eroded or washed out sites.

Place the sod on the prepared surface, with edges in close contact, and embed it firmly and smoothly by light tamping with appropriate tools.

Place the sod to the edge of all the paving and shrub areas and 1 inch [25 mm] below adjoining pavement with an even surface and edge. Place rolled sod parallel with the roadway and cut any exposed netting even with the sod edge.

Roll using a lightweight turf roller. Provide a true and even surface without any displacement of the sod or deformation.

Where sodding in drainage ditches, stagger the setting of the sod pieces to avoid a continuous seam along the line of flow. Ensure that the offsets of individual strips do not exceed 6 inches [150 mm]. Tamp the outer pieces of sod to produce a featheredge effect.

Peg sod at locations where the sod may slide. Drive pegs through sod blocks into firm earth, at intervals approved by the Engineer.

Remove any sod as directed by the Engineer.

575-3.3 Watering: Thoroughly water the sod immediately after placing. Do not apply more than one inch of water per acre [60 mm of water per hectare] per week for establishment.

Use watering equipment that will prevent damage to the finished sod surface. Keep the sod in a moist condition for the duration of the Contract period.

575-3.4 Maintenance: Maintain the sodded areas in a satisfactory condition until final acceptance of the project. Include in such maintenance the filling, leveling, and repairing of any washed or eroded areas, as may be necessary. The Department will pay for resodding necessary due to factors determined to be beyond the control of the Contractor.

Mow the sodded areas to a height of 6 inches [150 mm] when competing vegetation height exceeds 20 inches [500 mm] in height.

575-4 Method of Measurement.

The quantities to be paid for will be for the following items, completed and accepted:

- (1) The area, in square yards [square meters], of sodding.
- (2) The weight, in tons [metric tons], of fertilizer.
- (3) The volume, in thousand gallons [kiloliters], of water.
- (4) The area, in acres [hectares], of mowing.

575-5 Basis of Payment.

Prices and payments will be full compensation for all work and materials specified in this Section, and the satisfactory disposal of excavated material, except the furnishing of the fertilizer, and the furnishing and application of the water.

Fertilizer and water will be paid for as specified in 570-6.

The work and materials for pegging of sod, directed by the Engineer (as provided in 575-3.2), will be paid for as Unforeseeable Work.

Payment will be made under:

Item No. 104-4-	Mowing - per acre.
Item No. 2104-4-	Mowing - per hectare.
Item No. 570-5-	Fertilizer - per ton.
Item No. 2570-5-	Fertilizer - per metric ton.
Item No. 570-9-	Water for Grassing - per thousand gallons.
Item No. 2570-9-	Water for Grassing - per kiloliter.
Item No. 575-1-	Sodding - per square yard.
Item No. 2575-1-	Sodding - per square meter.

d 5750000 tsa rev

**SECTION 575
SODDING**

575-1 Description.

Establish a stand of grass within the specified areas, by furnishing and placing sod, and rolling, fertilizing, watering, and maintaining the sodded areas to ensure a healthy stand of grass.

575-2 Materials.

Meet the following requirements:

- Sod981-2
- Fertilizer, Type I..... Section 982
- Water..... Section 983

575-3 Construction Methods.

575-3.1 Preparation of Ground: Fertilize at the rate as shown in Section 570. Scarify or loosen the areas requiring sod to a depth of 6 inches [150 mm]. On areas where the soil is sufficiently loose, particularly on shoulders and fill slopes, the Engineer may authorize the elimination of the ground preparation. Limit preparation to those areas that can be sodded within 72 hours after preparation. Prior to sodding, thoroughly water areas and allow water to percolate into the soil. Allow surface moisture to dry before sodding to prevent a muddy soil condition.

See attached mark-up

575-3.2 Placing Sod: Place sod immediately after ground preparation. Do not use sod which has been cut for more than 72 hours. Stack all sod that is not planted within 24 hours after cutting and maintain proper moist condition. Furnish the Engineer, prior to incorporation into the project, with a certification from the producer *in accordance with section 981-2, stating that the sod is free of noxious weeds, including Tropical Soda Apple.* Such certification must be made by an officer or director of the producer with the authority to bind the producer.

~~Do not sod when weather and soil conditions are unsuitable for proper results. Pre-wet the area prior to placing sod. Do not place sod on eroded or washed out sites.~~

Place the sod on the prepared surface, with edges in close contact, and embed it firmly and smoothly by light tamping with appropriate tools.

Place the sod to the edge of all the paving and shrub areas and 1 inch [25 mm] below adjoining pavement with an even surface and edge. Place rolled sod parallel with the roadway and cut any exposed netting even with the sod edge.

Roll using a lightweight turf roller. Provide a true and even surface without any displacement of the sod or deformation.

Where sodding in drainage ditches, stagger the setting of the sod pieces to avoid a continuous seam along the line of flow. Ensure that the offsets of individual strips do not exceed 6 inches [150 mm]. Tamp the outer pieces of sod to produce a featheredge effect.

Peg sod at locations where the sod may slide. Drive pegs through sod blocks into firm earth, at intervals approved by the Engineer.

Remove any sod as directed by the Engineer.

575-3.3 Watering: Thoroughly water the sod immediately after placing. Do not apply more than one inch of water per acre [60 mm of water per hectare] per week for establishment.

Use watering equipment that will prevent damage to the finished sod surface. Keep the sod in a moist condition for the duration of the Contract period.

575-3.4 Maintenance: Maintain the sodded areas in a satisfactory condition until final acceptance of the project. Include in such maintenance the filling, leveling, and repairing of any washed or eroded areas, as may be necessary. The Department will pay for resodding necessary due to factors determined to be beyond the control of the Contractor.

Mow the sodded areas to a height of 6 inches [150 mm] when competing vegetation height exceeds 20 inches [500 mm] in height.

575-4 Method of Measurement.

The quantities to be paid for will be for the following items, completed and accepted:

- (1) The area, in square yards [square meters], of sodding.
- (2) The weight, in tons [metric tons], of fertilizer.

- (3) The volume, in thousand gallons [kiloliters], of water.
- (4) The area, in acres [hectares], of mowing.

575-5 Basis of Payment.

Prices and payments will be full compensation for all work and materials specified in this Section, and the satisfactory disposal of excavated material, except the furnishing of the fertilizer, and the furnishing and application of the water.

Fertilizer and water will be paid for as specified in 570-6.

The work and materials for pegging of sod, directed by the Engineer (as provided in 575-3.2), will be paid for as Unforeseeable Work.

Payment will be made under:

- Item No. 104- 4- Mowing - per acre.
- Item No. 2104- 4- Mowing - per hectare.
- Item No. 570- 5- Fertilizer - per ton.
- Item No. 2570- 5- Fertilizer - per metric ton.
- Item No. 570- 9- Water for Grassing - per thousand gallons.
- Item No. 2570- 9- Water for Grassing - per kiloliter.
- Item No. 575- 1- Sodding - per square yard.
- Item No. 2575- 1- Sodding - per square meter.

575-3.2 Placing Sod. Place sod immediately after ground preparation. Do not use sod which has been cut for more than 72 hours. Stack all sod that is not planted within 24 hours after cutting and maintain proper moist condition. ~~Furnish the Engineer, prior to incorporation into the project, with a certification from the producer in accordance with section 981-2, stating that the sod is free of noxious weeds, including Tropical Soda Apple. Such certification must be made by an officer or director of the producer with the authority to bind the producer.~~

Prior to incorporation^{of any sod} into the project, furnish to the Engineer certification from the producer of ^{the} sod in accordance with the requirements of 981-2.

[move to first sentence]

From
d5750000tsa rev

ORIGINATION FORM

THE INFORMATION BELOW IS TO BE PROVIDED BY THE ORIGINATOR
(The person who receives or originates the issue and needs to forward the issue for action.)

Modify Specification _____ 575 _____
Section/File number

New Section _____
Section number

Subject: Sodding

Origination date: March 10, 2003

Originator: David Sadler

Office/Phone: State Construction Office/ (850) 414-5203, SC 994-5203

Email address/ email: david.sadler@dot.state.fl.us

Userid:

Problem statement: A brief statement of the perceived problem that we are trying to solve (including data that quantifies the magnitude of the problem when possible)

Information source: Any contacts through industry, or Department staff who may have information, or who provided information on the issue.

Background data: Any factual information on the problem, or potential solutions that could assist those working on the issue.

Desired implementation date:

Beginning with the January 2004 letting.

SPECIFICATION PROCESSING AND STATUS FORM

Begin date: April 17, 2003

File Number: D5750000

Projected completion date: July 17, 2003

Implementation team member: Shirley Harvey.

Schedule of activities: Internal, Industry and FHWA review.

Resource needs: None identified at this time.

Implementation schedule: Beginning with the January 2004 letting.

Proposed solution: Certification required from the producer, that sod be in accordance with the requirements of 981-2.

Recommended Usage Note: All Jobs

Progress report: What is the current status of the issue? Detail problems encountered, that hinders the process.

**SECTION 575
SODDING**

575-1 Description.

Establish a stand of grass within the specified areas, by furnishing and placing sod, and rolling, fertilizing, watering, and maintaining the sodded areas to ensure a healthy stand of grass.

575-2 Materials.

Meet the following requirements:

Sod	981-2
Fertilizer, Type I.....	Section 982
Water.....	Section 983

575-3 Construction Methods.

575-3.1 Preparation of Ground: Fertilize at the rate as shown in Section 570. Scarify or loosen the areas requiring sod to a depth of 6 inches [150 mm]. On areas where the soil is sufficiently loose, particularly on shoulders and fill slopes, the Engineer may authorize the elimination of the ground preparation. Limit preparation to those areas that can be sodded within 72 hours after preparation. Prior to sodding, thoroughly water areas and allow water to percolate into the soil. Allow surface moisture to dry before sodding to prevent a muddy soil condition.

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Place the sod to the edge of all the paving and shrub areas and 1 inch [25 mm] below adjoining pavement with an even surface and edge. Place rolled sod parallel with the roadway and cut any exposed netting even with the sod edge.

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Remove any sod as directed by the Engineer.

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Use watering equipment that will prevent damage to the finished sod surface. Keep the sod in a moist condition for the duration of the Contract period.

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- (4) The area, in acres [hectares], of mowing.

575-5 Basis of Payment.

Prices and payments will be full compensation for all work and materials specified in this Section, and the satisfactory disposal of excavated material, except the furnishing of the fertilizer, and the furnishing and application of the water.

Fertilizer and water will be paid for as specified in 570-6.

The work and materials for pegging of sod, directed by the Engineer (as provided in 575-3.2), will be paid for as Unforeseeable Work.

Payment will be made under:

- Item No. 104- 4- Mowing - per acre.
- Item No. 2104- 4- Mowing - per hectare.
- Item No. 570- 5- Fertilizer - per ton.
- Item No. 2570- 5- Fertilizer - per metric ton.
- Item No. 570- 9- Water for Grassing - per thousand gallons.
- Item No. 2570- 9- Water for Grassing - per kiloliter.
- Item No. 575- 1- Sodding - per square yard.
- Item No. 2575- 1- Sodding - per square meter.