

RON DESANTIS GOVERNOR 605 Suwannee Street Tallahassee, FL 32399-0450 JARED W. PERDUE, P.E. SECRETARY

October 7, 2024

Cathy Kendall
Director, Office of Technical Services
Federal Highway Administration
3500 Financial Plaza, Suite 400
Tallahassee, Florida 32312

Re: State Specifications Office

Section: 285

Proposed Specification: 2850200 Optional Base Course

Dear Ms. Kendall:

We are submitting, for your approval, two copies of the above referenced Supplemental Specification.

The changes are proposed by John Shoucair to add Calcarenite rock as an approved base material.

Please review and transmit your comments, if any, within two weeks (10 business days). Comments should be sent via email daniel.strickland@dot.state.fl.us.

If you have any questions relating to this specification change, please call me at (850) 414-4130.

Sincerely,

Signature on File

Daniel Strickland, P.E. State Specifications Engineer

DS/jb

Attachment

cc: Florida Transportation Builders' Assoc.

State Construction Engineer

OPTIONAL BASE COURSE

(REV 8-27-24)

ARTICLE 285-2 is deleted and the following substituted:

285-2 Materials.

Meet the <u>material following</u> requirements: as specified in the Section covering the particular type of base to be constructed.

Graded Aggregate	Section 204
Asphalt	
Reclaimed Asphalt Pavement (RAP)*	Section 283
Prime and Tack Coat	Section 300
Limerock	Section 911
Shell Base	Section 911
Shell-Rock	Section 911
Cemented Coquina	Section 911
Calcarenite	Section 911
Recycled Concrete Aggregate (RCA)**	Section 911
Bituminous Materials	Section 916

*Only for use on non-limited access paved shoulders, shared use paths, or other non-traffic bearing applications.

ARTICLE 285-3 is deleted and the following substituted:

285-3 Selection of Base Option.

The Plans will include typical sections indicating the various types of base construction (material and thickness) allowable.

When base options are specified in the Plans, use only those options. When base options are not specified, select one base option as allowed for each typical section shown in the Plans. Only one base option is permitted for each typical section. See Tables 285-1 and 285-2 for optional base materials, thickness and additional restrictions.

Notify the Engineer in writing of the base option selected for each typical section at least 45 calendar days prior to beginning placement of base material.

^{**}Do not use on interstate roadways.

	1	Table 28:	5-1							
O	ptional B	ase Grouj	ps 1 throu	ıgh 7						
	Base Group									
Base Materials		(Base Group Pay Item)								
Dasc Waterials	1	2	3	4	5	6	7			
	(701)	(702)	(703)	(704)	(705)	(706)	(707)			
Limerock, LBR 100	4"	5"	5-1/2"	6"	7"	8"	8-1/2"			
Cemented Coquina, LBR 100	4"	5"	5-1/2"	6"	7"	8"	8-1/2"			
Shell Rock, LBR 100	4"	5"	5-1/2"	6"	7"	8"	8-1/2"			
Bank Run Shell, LBR 100	4"	5"	5-1/2"	6"	7"	8"	8-1/2"			
Calcarenite, LBR 100	<u>4"</u>	<u>5"</u>	5-1/2"	<u>6"</u>	<u>7"</u>	<u>8"</u>	8-1/2"			
Recycled Concrete Aggregate, LBR 150 ⁽¹⁾	4"	5"	5-1/2"	6"	7"	8"	8-1/2"			
Graded Aggregate Base, LBR 100	4-1/2"	5-1/2"	6-1/2"	7-1/2"	8-1/2"	9"	10"			
Type B-12.5	4"(3)	4"(3)	4"(3)	4"(3)	4-1/2"	5"	5-1/2"			
B-12.5 and 4" Granular Subbase, LBR 100 ⁽²⁾	-	-	-	-	-	-	-			
RAP Base (4)	5" (4)	-	-	-	-	-	-			

⁽¹⁾ Do not use on interstate roadways.

(4) Only for use on non-limited access paved shoulders, shared use paths, or other non-traffic bearing applications.

⁽⁵⁴⁾ To be used for widening, three feet or less.

	Table 285-1(continued)										
Optional Base Groups 8 through 15											
					e Group						
Base Materials			(Base Gr	oup Pay I	tem)		T			
Base Waterials	8	9	10	11	12	13	14	15			
	(708)	(709)	(710)	(711)	(712)	(713)	(714)	(715)			
Limerock, LBR 100	9-1/2"	10"	11"	12"	12-1/2"	13-1/2" (54)	14" (54)	-			
Cemented Coquina, LBR 100	9-1/2"	10"	11"	12"	12-1/2"	13-1/2" (54)	14" ^(5<u>4</u>)	-			
Shell Rock, LBR 100	9-1/2"	10"	11"	12"	12-1/2"	13-1/2" (54)	14" (5 <u>4</u>)	-			
Bank Run Shell, LBR 100	9-1/2"	10"	11"	12"	12-1/2"	13-1/2" (54)	14 <u>" (54)</u>	-			
<u>Calcarenite</u>	9-1/2"	<u>10"</u>	<u>11"</u>	<u>12"</u>	12-1/2"	13-1/2" (54)	14" (54)	Ξ			
Recycled Concrete Aggregate, LBR 150 ⁽¹⁾	9-1/2"	10"	11"	12"	12-1/2"	13-1/2" (54)	14" (54)	-			
Graded Aggregate Base, LBR 100	11" 12" 13" 14"										
Type B-12.5	5-1/2"	6"	6-1/2"	7"	7-1/2"	8"	8-1/2"	9"			

⁽²⁾ The construction of both the subbase and Type B-12.5 will be bid and used as Optional Base. Granular subbases include limerock, cemented coquina, shell rock, bank run shell, recycled concrete aggregate and graded aggregate base. All subbase thicknesses are 4" minimum prior to adding the required prime coat.

⁽³⁾ Based on minimum practical thickness.

Table 285-1(continued) Optional Base Groups 8 through 15									
	Optiona	al Base	Groups	8 throug	gh 15				
Base Group									
Base Materials	(Base Group Pay Item)								
Base Waterials	8	9	10	11	12	13	14	15	
	(708)	(709)	(710)	(711)	(712)	(713)	(714)	(715)	
B-12.5 and 4" Granular	_	4"	4-1/2"	5"	5-1/2"	6"	6-1/2"	7"	
Subbase, LBR 100 (2)	- 4 4-1/2 3 3-1/2 6 6-1/2 /								
RAP Base (4)	-	-	-	1	-	-	-	-	

⁽¹⁾ Do not use on interstate roadways.

 $^{(\}underline{54})$ To be used for widening, three feet or less.

Table 2	285-2: L	imited U	Jse Optio	onal Base	e Groups	(1)			
	Base Group								
Base Materials			(Ba	ase Grou	p Pay Ite	em)			
Base Materials	101	102	103	104	105	106	107	108	
	(701)	(702)	(703)	(704)	(705)	(706)	(707)	(708)	
Limerock Stabilized, LBR 70	5"	6-1/2"	8"	9"	10"	11"	12-1/2"	-	
Shell, LBR 70	5"	6-1/2"	8"	9"	10"	11"	12-1/2"	-	
Shell Stabilized, LBR 70	7"	8-1/2"	9-1/2"	10-1/2"	12"	-	-	-	
Sand-Clay, LBR 75	5"	6-1/2"	8"	9"	10"	11"	12-1/2"	-	
Soil Cement (300 psi) (Plant Mixed)	5"	5-1/2"	6-1/2"	7-1/2"	8-1/2"	9"	10"	11"	
Soil Cement (300 psi) (Road Mixed)	5"	5-1/2"	6-1/2"	7-1/2"	8-1/2"	1	-	-	
Soil Cement (500 psi) (Plant Mixed)	4" ⁽²⁾	4"	5"	5-1/2"	6"	7"	7-1/2"	8-1/2"	
(1) Use only when specified in the Plans	2								

⁽¹⁾ Use only when specified in the Plans.

ARTICLE 285-4 is deleted and the following substituted:

285-4 Construction Requirements.

Construct the base in accordance with the Section covering the particular type of base to be constructed.

Graded Aggregate	Section 204
Asphalt	Section 234
Reclaimed Asphalt Pavement (RAP) *	
Limerock	Section 200
Shell Base	Section 200

⁽²⁾ The construction of both the subbase and Type B-12.5 will be bid and used as Optional Base. Granular subbases include limerock, cemented coquina, shell rock, bank run shell, recycled concrete aggregate and graded aggregate base. All subbase thicknesses are 4" minimum prior to adding the required prime coat.

⁽³⁾ Based on minimum practical thickness.

⁽⁴⁾ Only for use on non-limited access paved shoulders, shared use paths, or other non-traffic bearing applications.

⁽²⁾ Based on minimum practical thicknesses.

Shell Rock	Section 200
Cemented Coquina	Section 200
Calcarenite	
Recycled Concrete Aggregate (RCA)* *	Section 200
*Only for use on non-limited access paved s	houlders shared use naths or other
omy for use on non-infinited access paved s.	nodicers, shared use paths, or other

non-traffic

^{**}Do not use on interstate roadways.

OPTIONAL BASE COURSE (REV 8-27-24)

ARTICLE 285-2 is deleted and the following substituted:

285-2 Materials.

Meet the following requirements:

Graded Aggregate	Section 204
Asphalt	
Reclaimed Asphalt Pavement (RAP)	
Prime and Tack Coat	Section 300
Limerock	Section 911
Shell Base	Section 911
Shell-Rock	Section 911
Cemented Coquina	Section 911
Calcarenite	
Recycled Concrete Aggregate (RCA)*	
Bituminous Materials	
*Do not use on interstate roadways.	

ARTICLE 285-3 is deleted and the following substituted:

285-3 Selection of Base Option.

The Plans will include typical sections indicating the various types of base construction (material and thickness) allowable.

When base options are specified in the Plans, use only those options. When base options are not specified, select one base option as allowed for each typical section shown in the Plans. Only one base option is permitted for each typical section. See Tables 285-1 and 285-2 for optional base materials, thickness and additional restrictions.

Notify the Engineer in writing of the base option selected for each typical section at least 45 calendar days prior to beginning placement of base material.

	1	Table 28:	5-1							
O	ptional B	ase Grouj	os 1 throu	ıgh 7						
	Base Group									
Base Materials		(Base Group Pay Item)								
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	(701)	(702)	(703)	(704)	(705)	(706)	(707)			
Limerock, LBR 100	4"	5"	5-1/2"	6"	7"	8"	8-1/2"			
Cemented Coquina, LBR 100	4"	5"	5-1/2"	6"	7"	8"	8-1/2"			
Shell Rock, LBR 100	4"	5"	5-1/2"	6"	7"	8"	8-1/2"			
Bank Run Shell, LBR 100	4"	5"	5-1/2"	6"	7"	8"	8-1/2"			
Calcarenite, LBR 100	4"	5"	5-1/2"	6"	7"	8"	8-1/2"			
Recycled Concrete Aggregate, LBR 150 ⁽¹⁾	4"	5"	5-1/2"	6"	7"	8"	8-1/2"			
Graded Aggregate Base, LBR 100	4-1/2"	5-1/2"	6-1/2"	7-1/2"	8-1/2"	9"	10"			
Type B-12.5	4"(3)	4"(3)	4"(3)	4"(3)	4-1/2"	5"	5-1/2"			
B-12.5 and 4" Granular Subbase, LBR 100 ⁽²⁾	-	-	-	-	-	-	-			
RAP Base	5"	-	-	-	-	-	-			

⁽¹⁾ Do not use on interstate roadways.

⁽⁴⁾ To be used for widening, three feet or less.

	Table 285-1(continued)										
Optional Base Groups 8 through 15											
	Base Group										
Base Materials		(Base Group Pay Item)									
Dase Waterials	8	9	10	11	12	13	14	15			
	(708)	(709)	(710)	(711)	(712)	(713)	(714)	(715)			
Limerock, LBR 100	9-1/2"	10"	11"	12"	12-1/2"	13-1/2" (4)	14" (4)	-			
Cemented Coquina, LBR 100	9-1/2"	10"	11"	12"	12-1/2"	13-1/2" (4)	14" (4)	-			
Shell Rock, LBR 100	9-1/2"	10"	11"	12"	12-1/2"	13-1/2" (4)	14" (4)	-			
Bank Run Shell, LBR 100	9-1/2"	10"	11"	12"	12-1/2"	13-1/2" (4)	14" (4)	-			
Calcarenite	9-1/2"	10"	11"	12"	12-1/2"	13-1/2" (4)	14" (4)	-			
Recycled Concrete Aggregate, LBR 150 ⁽¹⁾	9-1/2"	10"	11"	12"	12-1/2"	13-1/2" (4)	14"(4)	-			
Graded Aggregate Base, LBR 100	11"	11" 12" 13" 14"									
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⁽²⁾ The construction of both the subbase and Type B-12.5 will be bid and used as Optional Base. Granular subbases include limerock, cemented coquina, shell rock, bank run shell, recycled concrete aggregate and graded aggregate base. All subbase thicknesses are 4" minimum prior to adding the required prime coat.

⁽³⁾ Based on minimum practical thickness.

Table 285-1(continued)									
	Optional Base Groups 8 through 15								
Base Group									
Base Materials	(Base Group Pay Item)								
Base Waterials	8	9	10	11	12	13	14	15	
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B-12.5 and 4" Granular		4"	4-1/2"	5"	5-1/2"	6"	6-1/2"	7"	
Subbase, LBR 100 (2)	- 4 4-1/2 5 3-1/2 6 6-1/2								
RAP Base	-	-	-	-	-	-	-	-	

⁽¹⁾ Do not use on interstate roadways.

⁽⁴⁾ To be used for widening, three feet or less.

Table 2	Table 285-2: Limited Use Optional Base Groups ⁽¹⁾										
	Base Group										
Base Materials			(Ba	ase Grou	p Pay Ite	em)					
Base Materials	101	102	103	104	105	106	107	108			
	(701)	(702)	(703)	(704)	(705)	(706)	(707)	(708)			
Limerock Stabilized, LBR 70	5"	6-1/2"	8"	9"	10"	11"	12-1/2"	-			
Shell, LBR 70	5"	6-1/2"	8"	9"	10"	11"	12-1/2"	-			
Shell Stabilized, LBR 70	7"	8-1/2"	9-1/2"	10-1/2"	12"	-	-	-			
Sand-Clay, LBR 75	5"	6-1/2"	8"	9"	10"	11"	12-1/2"	-			
Soil Cement (300 psi) (Plant Mixed)	5"	5-1/2"	6-1/2"	7-1/2"	8-1/2"	9"	10"	11"			
Soil Cement (300 psi) (Road Mixed)	5"	5-1/2"	6-1/2"	7-1/2"	8-1/2"	-	-	_			
Soil Cement (500 psi) (Plant Mixed)	4" ⁽²⁾	4"	5"	5-1/2"	6"	7"	7-1/2"	8-1/2"			

ARTICLE 285-4 is deleted and the following substituted:

285-4 Construction Requirements.

Construct the base in accordance with the Section covering the particular type of base to be constructed.

Graded Aggregate	Section 204
Asphalt	Section 234
Reclaimed Asphalt Pavement (RAP)	
Limerock	Section 200
Shell Base	Section 200
Shell Rock	Section 200

⁽²⁾ The construction of both the subbase and Type B-12.5 will be bid and used as Optional Base. Granular subbases include limerock, cemented coquina, shell rock, bank run shell, recycled concrete aggregate and graded aggregate base. All subbase thicknesses are 4" minimum prior to adding the required prime coat.

⁽³⁾ Based on minimum practical thickness.

Use only when specified in the Plans.
 Based on minimum practical thicknesses.

Cemented Coquina	Section 200
Calcarenite	Section 200
Recycled Concrete Aggregate (RCA)*	Section 200
*Do not use on interstate roadways.	
Do not use on interstate roadways.	