

PROJECT SPECIAL PROVISIONS**ROADWAY****GRADING:**

Grading on this project shall be in accordance with Section 226 and the following:

This project shall be graded to the alignment, profile and typical section shown on the plans and as directed by the Engineer. The lump sum bid price for grading will include all incidentals associated with performing this work, including fine grading, shoulder construction on the left side of the project, and removal and disposal of any waste material. Shoulder reconstruction will be paid only on the right side of the project.

All borrow material in this contract is expected to be used to backfill undercut areas unless otherwise directed by the Engineer.

Comprehensive grading shall be performed in accordance with Section 226 of the Standard Specifications with the following expectations.

Delete any reference to Section 230 "Borrow Excavation" from Section 226.

Borrow material shall be in accordance with Section 230.

Delete any reference to Section 200 "Clearing and Grubbing" from Section 226.

Clearing and Grubbing shall be in accordance with Section 200.

Delete any reference to Section 250 "Removal of Existing Pavement" from Section 226.

Removal of existing pavement shall be in accordance with Section 250.

Delete any reference to "Undercut Excavation" from Section 226.

Undercut excavation shall be in accordance with Section 225.

A true 4' shoulder will be required to be constructed as shown on the typical sections unless otherwise directed by the Engineer. This will require relocation of the existing ditchlines in areas to be widened.

SCOUR HOLE REPAIR:

The Contractor shall repair the scour hole at the outlet at the existing 24" pipe at Station 470+31 by cleaning out the hole and filling with Class I Rip Rap to the elevation indicated in the contract or as directed by the Engineer.

No separate payment will be made for cleaning out the scour hole as the cost of this work shall be included in the unit price bid per ton for "Class I Rip Rap".

SHOULDER RECONSTRUCTION:

(1-18-00) (Rev.7-18-06)

RR 07

Description

The work covered by this provision consists of reconstructing earth shoulders on the right side of the project in accordance with the *Roadway Standard Drawing Nos. 560.01 and 560.02*, from the edge of pavement to the existing shoulder point as directed by the Engineer. Perform this work immediately after the resurfacing operations are completed as directed by the Engineer.

Materials

On any map that contains widening, use all suitable material generated from the widening operation to construct the shoulder. Furnish any other earth material necessary for the construction of the shoulders. Provide earth material meeting the approval of the Engineer. No testing will be necessary.

Perform shoulder reconstruction in the following order: scarify the existing shoulder to provide the proper bond; add the earth material to the shoulder; and compact the reconstructed shoulder to the satisfaction of the Engineer.

The Contractor shall dispose of any excess material generated by the shoulder reconstruction in an approved disposal site.

Measurement and Payment

Shoulder Reconstruction will be measured and paid for as the actual number of shoulder miles that have been constructed. Measurement will be made along the edge of the right shoulder. Measurement will be made to the nearest 0.01 of a mile. Such price and payment will be full compensation for furnishing earth material, hauling, placing, compaction, and all incidentals necessary to complete construction of the shoulders.

Incidental Stone Base will be measured and paid for as provided in Article 545-6 of the *Standard Specifications*.

Seeding and Mulching will be measured and paid for as provided elsewhere in this contract.

Payment will be made under:

Pay Item	Pay Unit
Shoulder Reconstruction	Shoulder Mile

DITCHING:

1-18-05

SPI

Description:

The Contractor’s attention is directed to the fact that there are areas where existing ditches need to be cleaned in conjunction with resurfacing.

The ditching operation is to be used as directed by the Engineer where existing ditches are excessively overgrown or obstructed. The Contractor shall restore proper drainage by cleaning the ditch to a condition acceptable to the Engineer.

Material removed from drainage ditches shall be disposed of in waste areas furnished by the Contractor or as directed by the Engineer in accordance with Section 240 of the *Standard Specifications*.

Measurement and Payment:

The quantity of such work to be paid for will be the actual number of linear feet of ditch, which has been cleaned. The quantity will be paid for at the contract unit price per linear foot for “Ditching”. Such price and payment will be full compensation for removal and disposal of debris, seeding and mulching of the ditch line, and all incidentals associated with performing this work.

Payment will be made under:

Pay Item	Pay Unit
Ditching	Linear Foot

SHALLOW UNDERCUT:

(2-19-02) (Rev 7-18-06)

SP2 R35

Perform undercut excavation and place a combination of fabric for soil stabilization and Class IV Subgrade Stabilization at locations as directed. Work includes performing undercut excavation, disposing of unsuitable material, furnishing and placing fabric for soil stabilization; and furnishing, placing and compacting Class IV Subgrade Stabilization.

Materials

Item	Section
Fabric for Soil Stabilization	270
Class IV Subgrade Stabilization	1016-3, Class IV, or Material meeting gradation requirements of Table 520-1, Column C

Construction Methods

Perform undercut excavation in accordance with Section 225 and/or Section 226.

Place fabric for soil stabilization in accordance with Section 270.

Place Class IV Subgrade Stabilization by back dumping material on previously placed fabric.

Compact material to 95% of AASHTO T-99, Method "D" density or compact material to the highest density that can be reasonably obtained.

Measurement and Payment

Undercut Excavation will be measured and paid for in accordance with Section 225 and/or Section 226 of the *Standard Specifications*.

Fabric for Soil Stabilization will be measured and paid for in accordance with Article 270-4 of the *Standard Specifications*.

Class IV Subgrade Stabilization, as accepted in place, will be measured and paid for by the ton in accordance with Section 106-7 of the *Standard Specifications*.

Payment will be made under:

Pay Item	Pay Unit
Undercut Excavation	Cubic Yard
Fabric for Soil Stabilization	Square Yard
Class IV Subgrade Stabilization	Ton

PRICE ADJUSTMENT - ASPHALT BINDER FOR PLANT MIX:

(11-21-00)

RR 19

Price adjustments for asphalt binder for plant mix will be made in accordance with Section 620 of the *Standard Specifications* as modified herein.

The base price index for asphalt binder for plant mix is \$411.07 per ton.

This base price index represents an average of F.O.B. selling prices of asphalt binder at supplier's terminals on September 1, 2006.

ASPHALT PAVEMENTS - SUPERPAVE:

(7-18-06) (Rev 9-19-06)

RR 31

Revise the *2006 Standard Specifications* as follows:

Page 6-2, Article 600-9 Measurement and Payment

Delete the second paragraph.

Page 6-12, 609-5(C)2(c) add after (AASHTO T 209):

or ASTM D 2041

Page 6-13, last line on page & Page 6-14, Subarticle 609-5(C)(2)(e), delete and substitute the following:

(e) Retained Tensile Strength (TSR) - (AASHTO T 283 Modified), add subarticle (1) Option 1 before the first paragraph.

(1) Option 1

Add subarticle (2) Option 2 and the following sentence as the first sentence of the second paragraph:

(2) Option 2

Mix sampled from truck at plant with one set of specimens prepared by the Contractor and then tested jointly by QA and QC at a mutually agreed upon lab site within the first 7 calendar days after beginning production of each new mix design.

Page 6-28, 610-3(A) Mix Design-General, third sentence of the fourth paragraph:

Substitute 20% for 15%

First, second and third sentences of the fifth paragraph:

Substitute 20% for 15%

Page 6-44, 610-8, third full paragraph, replace the first sentence with the following:

Use the 30 foot minimum length mobile grade reference system or the non-contacting laser or sonar type ski *with at least four referencing stations mounted on the paver at a minimum length of 24 feet* to control the longitudinal profile when placing the initial lanes and all adjacent lanes of all layers, including resurfacing and asphalt in-lays, unless otherwise specified or approved.

Page 6-54, Article 620-4, add the following pay item:

Pay Item	Pay Unit
Asphalt Binder for Plant Mix, Grade PG 70-28	Ton

Page 6-69, Table 660-1 **Material Application Rates and Temperatures**, add the following:

Type of Coat	Grade of Asphalt	Asphalt Rate gal/yd ²	Application Temperature °F	Aggregate Size	Aggregate Rate lb./sq. yd. Total
Sand Seal	CRS-2 or CRS-2P	0.22-0.30	150-175	Blotting Sand	12-15

Page 6-75, 660-9(B), add the following as sub-item (5)

(5) Sand Seal

Place the fully required amount of asphalt material in one application and immediately cover with the seal coat aggregate. Uniformly spread the fully required amount of aggregate in one application and correct all non-uniform areas prior to rolling.

Immediately after the aggregate has been uniformly spread, perform rolling.

When directed, broom excess aggregate material from the surface of the seal coat.

When the sand seal is to be constructed for temporary sealing purposes only and will not be used by traffic, other grades of asphalt material meeting the requirements of Articles 1020-6 and 1020-7 may be used in lieu of the grade of asphalt required by Table 660-1 when approved.

Page 10-41, Table 1012-1, add the following:

Mix Type	Course Aggregate Angularity ^(b) ASTM D5821	Fine Aggregate Angularity % Minimum AASHTO T304 Method A	Sand Equivalent % Minimum AASHTO T176	Flat & Elongated 5:1 Ratio % Maximum ASTM D4791 Section 8.4
S 9.5 D	100/100	45	50	10

Page 10-45, Replace Table 1012-2 with the following:

**TABLE 1012-2
NEW SOURCE RAP GRADATION and BINDER TOLERANCES
(Apply Tolerances to Mix Design Data)**

Mix Type	0-20% RAP			21-25% RAP			26%+ RAP		
	Base	Inter.	Surf.	Base	Inter.	Surf.	Base	Inter.	Surf.
P _b , %		± 0.7%			± 0.4%			± 0.3%	
1 1/2" (37.5)	±10	-	-	±7	-	-	±5	-	-
3/4" (19.0)	±10	±10	-	±7	±7	-	±5	±5	-
1/2" (12.5)	-	±10	±6	-	±7	±3	-	±5	±2
3/8" (9.5)	-	-	±8	-	-	±5	-	-	±4
No. 4 (4.75)	±10	-	±10	±7	-	±7	±5	-	±5
No. 8 (2.36)	±8	±8	±8	±5	±5	±5	±4	±4	±4
No.16 (1.18)	±8	±8	±8	±5	±5	±5	±4	±4	±4
No. 30 (0.600)	±8	±8	±8	±5	±5	±5	±4	±4	±4
No. 50 (0.300)	-	-	±8	-	-	±5	-	-	±4
No. 200 (0.075)	±4	±4	±4	±2	±2	±2	±1.5	±1.5	±1.5

GLASS BEADS:

(7-18-06)

RR 35

Revise the *Standard Specifications* as follows:

Page 10-223, 1087-4(C) Gradation & Roundness

Replace the second sentence of the first paragraph with the following:

All Drop-On and Intermixed Glass Beads shall be tested in accordance with ASTM D1155.

Delete the last paragraph.

ENGINEERING FABRICS TABLE 1056-1:

(7-18-06)

RR 40

Revise the *Standard Specifications* as follows:

Page 10-100, Table 1056-1, replace the values for Trapezoidal Tear Strength with the following:

Physical Property	ASTM Test Method	Type 1	Type 2	Type 3		Type 4
Typical Applications		Shoulder Drain	Under Riprap	Class A Temporary Fence	Class B Silt	Soil Stabilization
Trapezoidal Tear Strength	D4533	45 lb	75 lb	--	--	75 lb

ASPHALT BINDER CONTENT OF ASPHALT PLANT MIXES:

(1-1-02)

RR 43

The approximate asphalt binder content of the asphalt concrete plant mixtures used on this project will be as follows:

Asphalt Concrete Base Course	Type B 25.0__	4.3%
Asphalt Concrete Intermediate Course	Type I 19.0__	4.7%
Asphalt Concrete Surface Course	Type S 4.75A	7.0%
Asphalt Concrete Surface Course	Type SF 9.5A	6.5%
Asphalt Concrete Surface Course	Type S 9.5__	6.0%
Asphalt Concrete Surface Course	Type S 12.5__	5.5%

The actual asphalt binder content will be established during construction by the Engineer within the limits established in the *Standard Specifications*.

ASPHALT PLANT MIXTURES:

(7-1-95)

RR 46

Place asphalt concrete base course material in trench sections with asphalt pavement spreaders made for the purpose or with other equipment approved by the Engineer.

RESURFACING EXISTING BRIDGES:

(7-1-95)

RR 61

The Contractor's attention is directed to the fact that he will be required to resurface the bridges on this project if directed by the Engineer.

Place the surface so as to follow a grade line set by the Engineer with the minimum thickness as shown on the sketch herein or as directed by the Engineer. State Forces will make all necessary repairs to the bridge floors prior to the time that the Contractor places the proposed surfacing. Give the Engineer at least 15 days notice prior to the expected time to begin operations so that State Forces will have sufficient time to complete their work.

At all bridges that are not to be resurfaced, taper out the proposed resurfacing layer adjacent to the bridges to insure a proper tie-in with the bridge surface.

PAVING INTERSECTIONS, DRIVEWAYS, AND MAILBOX TURNOUTS:

(7-1-95)

RR 70

Surface all unpaved intersections back from the edge of the pavement on the main line of the project at least 50 feet. Surface all driveway and mailbox turnouts as directed by the Engineer. The pavement placed in the intersections shall be of the same material and thickness as being used on the main line. Use material to pave driveway and mailbox turnouts that are being used on the project and place it in depths directed by the Engineer.

Resurface all paved intersections back to the ends of the radii, or as directed by the Engineer.

The unpaved intersections, driveways, and mailbox turnouts will be prepared for surfacing by State Forces.

Widen the pavement on curves as directed by the Engineer.

PAVEMENT WIDTH VARIES:

(7-1-95)

RR 76

The Contractor's attention is directed to the fact that the existing pavement varies in width and the Contractor will be required to widen the pavement as directed by the Engineer in order to obtain a uniform edge of pavement.

TRENCHING FOR BASE COURSE BY MILLING:

The Contractor shall do all trenching for asphalt base course by use of an approved milling machine. One example of an approved milling machine is the "Bartmill" side cutter type machine which is capable of cutting a trench to a width as specified on the typical section. There are other manufacturers that produce "side cutter" milling machines.

All material excavated must be loaded onto trucks and stockpiled. This material will be used later for shoulder construction material.

The Contractor shall do all the trenching necessary to place the Bituminous Concrete base course widening in accordance with the typical sections, at locations shown on the sketch maps, and as directed by the Engineer.

The trenching for the base course shall be done on the same day that the base course is placed. If the base course cannot be placed on the same day the trench section is excavated, the Contractor shall backfill the trench with earth material and compact same to the satisfaction of the Engineer. Once the trench is open, backfilling and reopening the trench shall be done at no cost to the Department.

The Contractor will be restricted to working on one side of the project at a time unless otherwise permitted by the Engineer. The Contractor shall operate his equipment and conduct his operations in the same direction as the flow of traffic.

Density tests may be taken every 2000 feet in the widened areas as directed by the Engineer. The contractor shall shape and compact the subgrade in the widened areas to the satisfaction of the Engineer. The contractor shall compact the Bituminous Concrete base course in the widened areas in accordance with the provisions of Article 610-10 of the Standard Specifications.

All excavated material is to be removed from drives to provide ingress and egress to abutting properties and from in front of mailboxes and paper boxes. The Contractor shall saw a neat edge and remove all asphalt and/or concrete driveways, and existing asphalt widening, as directed by the Engineer, to the width of the widening and dispose of any excavated concrete or asphalt materials. Driveways shall be properly reconnected.

No direct payment will be made for milling, trenching, sawing, and removal of driveways, hauling and stockpiling material from the trucking operation, backfilling the trench or removal of spoil material, as the cost of this work shall be included in the contract unit price per ton for "Asphalt Concrete Base Course, Type B25.0C.

PATCHING EXISTING PAVEMENT:

(1-15-02) (Rev.7-18-06)

RR 88

Description

The Contractor's attention is directed to the fact that there are areas of existing pavement on this project that will require repair prior to resurfacing. Patch the areas that, in the opinion of the Engineer, need repairing. The areas to be patched will be delineated by the Engineer prior to the Contractor performing repairs.

Materials

The patching consists of Asphalt Concrete Base Course, Asphalt Concrete Intermediate Course, Asphalt Concrete Surface Course, or a combination of base, binder and surface course.

Construction Methods

Remove existing pavement at locations directed by the Engineer in accordance with Section 250 of the *Standard Specifications*.

Place Asphalt Concrete Base Course, in lifts not exceeding 5 1/2 inches. Utilize compaction equipment suitable for compacting patches as small as 3.5 feet by 6 feet on each lift. Use an approved compaction pattern to achieve proper compaction. If patched pavement is to be open to traffic for more than 48 hours prior to overlay, use Asphalt Surface Course in the top 1.25 inches of the patch.

Schedule operations so that all areas where pavement has been removed, will be repaired on the same day of the pavement removal and all lanes of traffic restored.

Measurement and Payment

Patching Existing Pavement will be measured and paid for as the actual number of tons of asphalt plant mix complete in place, that has been used to make completed and accepted repairs. The asphalt plant mixed material will be measured by being weighed in trucks on certified platform scales or other certified weighing devices. The above price and payment will be full compensation for all work covered by this provision, including but not limited to removal and disposal of pavement; furnishing and applying tack coat; furnishing, placing, and compacting of asphalt plant mix; furnishing of asphalt binder for the asphalt plant mix; and furnishing scales.

Patching Existing Pavement will be considered a minor item. In the event that the item of Patching Existing Pavement overruns the original bid quantity by more than 100 percent, the provisions of Article 104-5 of the *Standard Specifications* pertaining to revised contract unit price for overrunning minor items will not apply to this item. Any provisions included in the

contract that provides for adjustments in compensation due to variations in the price of asphalt binder will not be applicable to payment for the work covered by this provision.

Payment will be made under:

Pay Item	Pay Unit
Patching Existing Pavement	Ton

ADJUSTMENT OF MANHOLES, METER BOXES, AND VALVE BOXES:

(7-1-95)

RR 103

The Contractor's attention is directed to Article 858-3 of the *Standard Specifications*. Cast iron or steel fittings will not be permitted for the adjustment of manholes, meter boxes, and valve boxes on this project.

INCIDENTAL ASPHALT:

Incidental asphalt will be used to repair the existing asphalt sidewalk in the areas where removal and replacement of the sidewalk is required due to driveway pipe installation. The type and depth of incidental asphalt required will be determined by the Engineer. The contract unit bid price per ton for "Incidental Asphalt" will include all incidentals associated with performing this work.

WHEELCHAIR RAMPS FOR RESURFACING PROJECTS:

(8-19-03) (Rev.7-18-06)

RR 107

Description

This work consists of the construction of portland cement concrete wheelchair ramps with detectable warnings on resurfacing projects and includes but is not limited to the removal and disposal of any existing sidewalk, curb and/or gutter, and pavement which is necessary for construction of wheelchair ramps as well as the repair of the existing curb and/or gutter after construction of the wheelchair ramp.

Materials

Provide materials meeting the requirements of Division 10 of the *Standard Specifications* shown below:

Item	Section
Portland Cement Concrete, Class B	1000
Curing Agents	1026
Joint Fillers	1028-1
Joint Sealers	1028-2
Detectable warnings	848-2

Construction Requirements

Construct wheelchair ramps in accordance with Section 848 of the *Standard Specifications* and *Standard Drawings*. Make all repairs prior to the resurfacing operation.

Construct wheelchair ramps at all locations that contain curb and gutter. Retrofit existing sidewalks only. Connect the ramp to the existing sidewalk when the sidewalk is in the right of way. Where it is necessary to remove a portion of existing sidewalks, curb and/or gutter and pavement, furnish a neat edge along the surface to be retained by sawing a neat cut approximately 2 inches deep with a concrete saw prior to removing the existing materials.

Measurement and Payment

Wheelchair ramps will be measured and paid for as the actual number of wheelchair ramps installed, which have been completed and accepted. No separate measurement will be made for the removal and disposal or repair of existing curb and gutter, sidewalk and pavement or the connection to existing sidewalk in the right of way. Such price and payment will be full compensation for all work covered by this provision including but not limited to excavation and backfilling; sawing, repairing and/or replacing the existing sidewalk or curbs within the pay limits for retrofit shown on the detail; pavement repairs, furnishing and placing concrete, furnishing and placing detectable warnings, construction joints and removal and disposal of existing sidewalk and curb and gutter when required and for all materials labor, equipment, tools and incidentals necessary to complete the work.

Payment for and construction of sidewalk necessary outside the pay limits shown on the detail will be in accordance with Section 848.

Payment will be made under:

Pay Item	Pay Unit
Wheelchair Ramps	Each

AGGREGATE PRODUCTION:

(11-20-01)

RR 109

Provide aggregate from a producer who utilizes the new Aggregate Quality Control/Quality Assurance Program which is in effect at the time of shipment.

No price adjustment is allowed to contractors or producers who utilize the new program. Participation in the new program does not relieve the producer of the responsibility of complying with all requirements of the Standard Specifications. Copies of this procedure are available upon request from the Materials and Test Unit.

CONCRETE BRICK AND BLOCK PRODUCTION:

(11-20-01)

RR 112

Provide concrete brick and block from a producer who utilizes the new Solid Concrete Masonry Brick/Unit Quality Control/Quality Assurance Program that is in effect on the date that material is received on the project.

No price adjustment is allowed to contractors or producers who utilize the new program. Participation in the new program does not relieve the producer of the responsibility of complying with all requirements of the Standard Specifications. Copies of this procedure are available upon request from the Materials and Test Unit.

HIGH STRENGTH CONCRETE FOR DRIVEWAYS:

(11-21-00) (7-18-06)

RR 115

Use high early strength concrete for all driveways shown in the plans and as directed by the Engineer. Provide high early strength concrete that meets the requirements of Article 1000-6 of the *Standard Specifications*.

Measurement and payment will be in accordance with Section 848 of the *Standard Specifications*.

INCIDENTAL CONCRETE CURB:

Left of Sta. 367+00 and 367+83, there is some existing concrete machine curb on both sides of the driveway. After the widening is done and new driveway pipe is installed, concrete curb matching the existing curb is to be installed. Incidental Concrete Curb will be paid per linear foot and will include all incidentals necessary to complete this work including removal and proper disposal of debris.

REMOVAL OF EXISTING PAVEMENT MARKERS:

(7-1-95)

RR 118

The Contractor's attention is directed to the fact that there are pavement markers on this project.

Remove and dispose of these markers prior to the paving operation.

No direct payment will be made for this work, as it will be incidental to the paving operation and payment at the contract unit price for the various asphalt items in the contract will be full compensation for such work.

PORTABLE LIGHTING:

Revise the 2006 Standard Specifications as follows:

Page 14-33, Article 1413-6

Delete the last two paragraphs and insert the following:

Light Plants will be measured and paid for as the maximum number of light plants acceptably placed and in use at any one time during the life of the project. The Engineer will authorize the number of light plants used. Relocation of the light plants is considered incidental to the measurement of the quantity of light plants and no separate payment will be made.