

February 23, 2011

STATE OF RHODE ISLAND AND PROVIDENCE PLANTATION
DEPARTMENT OF TRANSPORTATION
RHODE ISLAND CONTRACT NO.2010-CT-095
FEDERAL-AID PROJECT NO. FAP Nos: STPG-4444(079)

ARRA Statewide Pavement Striping - North

State roadways and selected Park & Ride lots listed in the contract documents within the municipalities of Burrillville, Central Falls, Cumberland, Glocester, Lincoln, North Providence, North Smithfield, Pawtucket, and Woonsocket

CITY/TOWN OF Statewide, Burrillville, Cumberland, North Providence, North Smithfield, Pawtucket, Central Falls, Lincoln, Smithfield, Glocester, Woonsocket

COUNTY OF STATEWIDE, PROVIDENCE

NOTICE TO PROSPECTIVE BIDDERS

ADDENDUM NO. 2 Prospective bidders and all concerned are hereby notified of the following changes in the Plans, Specifications, Proposal and Distribution of Quantities for this contract. These changes shall be incorporated in the Plans, Specifications, Proposal and Distribution of Quantities, and shall become an integral part of the Contract Documents.

A. Contract Dates

1. Phase 1 Completion Date
Phase 1 Completion Date Updated To "09/30/2011".
2. Phase 2 Completion Date
Phase 2 Completion Date Updated To "11/15/2011".
3. Phase 3 Completion Date
Phase 3 Completion Date "09/30/2012" added.

B. General Provisions - Contract Specific

1. Page CS-i
Delete Page CS-i in its entirety and replace with Page CS-i(R-1) attached to this Addendum No.2.
Paragraph No.19 - Subcontracting has been added to the Index.
"Contractor Quality Control Testing Form - Retroreflectivity of Pavement Markings (ASTM E1710/D6359)" has been added to the Index.

2. Page CS-2
Delete Page CS-2 in its entirety and replace it with Page CS-2(R-1) attached to this Addendum No.2. Paragraph No.3 - Permissible Working Hours has been revised.
3. Page CS-3
Delete Page CS-3 in its entirety and replace it with Page CS-3(R-1) attached to this Addendum No.2. 2012 Holiday Work Schedule has been revised. Victory Day has been changed from "August 6th" to "August 11th". Christmas work schedule restrictions has been updated to "Monday, December 24th through Tuesday, December 25th".
4. Pages CS-5 and CS-6
Delete Pages CS-5 and CS-6 in their entirety and replace with Pages CS-5(R-1) and CS-6(R-1) attached to this Addendum No.2. Paragraph No.8 - Milestone and Completion Dates has been revised.
Paragraph No.9 - Retroreflection values has been revised. Language for quality control testing has been added.
5. Page CS-7
Delete Page CS-7 in its entirety and replace it with Page CS-7(R-1) attached to this Addendum No.2. Paragraph No.13 - Police Compensation has been revised. The title "Engineer" has been changed to "RIDOT Engineer".
6. Pages CS-9 through CS-15
Delete Pages CS-9 through CS-15 in their entirety and replace with Pages CS-9(R-1) through CS-15 (R-1) attached to this Addendum No.2. The titles "Phase 1" and "Phase 2" have been changed to "Group A" and "Group B". Paragraph No.19 - Subcontracting has been added to Page CS-15.
7. Attachments to the CS Pages
Insert new attachments to the CS Pages -"Contractor Quality Control Testing Form" (2 Pages) attached to this Addendum No.2. These attachments have been added for the purpose of verifying reflectivity values for the minimum pavement schedule specified on Pages CS-5 and CS-6.

C. Transportation Management Plan

1. TMP Page 1
Delete TMP Page 1 in its entirety and replace it with TMP Page 1(R-1) attached to this Addendum No.2. The General Project Schedule section has been revised.
2. TMP Page 2
Delete TMP Page 2 in its entirety and replace it with Page 2(R-1) attached to this Addendum No.2. The 2012 Holiday Restrictions section has been revised. Victory Day has been changed from "August 6th" to "August 11th". Christmas work schedule restrictions has been updated to "Monday, December 24th through Tuesday, December 25th".

D. Specifications - Job Specific

1. Page JS-i
Delete Page JS-i in its entirety and replace it with Page JS-i(R-1) attached to this Addendum No.2. The index has been revised.

2. Page JS-1

Delete Page JS-1 in its entirety and replace it with Page JS-1(R-1) attached to this Addendum No.2. Job Specific Code 108.1000 has been changed to 12.108.1000. This new code refers to RIDOA Emergency Purchasing Regulations Section 12.

4. Pages JS-6 through JS-9

Delete Pages JS-6 through JS-9 in their entirety and replace with Pages JS-6(R-1) through JS-9(R-1) attached to this Addendum No.2. These specifications have been revised.

5. Pages JS-9A through JS-9D

Insert new Pages JS-9A through JS-9D attached to this Addendum No.2. These pages have been added.

6. Pages JS-12 and JS-13

Delete Pages JS-12 and JS-13 in their entirety and replace with Pages JS-12(R-1) and JS-13(R-1) attached to this Addendum No.2. These pages have been revised.

7. Pages JS-18 and JS-19

Insert new Pages JS-18 and JS-19 attached to this Addendum No.2. These pages have been added. Job Specific Item Code 929.1000 - Special Requirement for Field Office has been added to these specifications.

8. Page JS-20

Insert new Page JS-20 attached to this Addendum No.2. This page has been added. Job Specific Item Code 937.1000 - Maintenance and Movement of Traffic Protective Devices has been added to these specifications.

E. Distribution of Quantities

1. Index Page 1

Delete Index Page 1 in its entirety and replace with Index Page 1(R-1) attached to this Addendum No.2. Item Code 928.9901 and T20.2020 have been revised.

2. DOQ Page 1

Delete DOQ Page 1 in its entirety and replace with DOQ Page 1(R-1) attached to this Addendum No.2. Item Code 928.9901 quantity updated To "825.00". Lowest Acceptable Bid Price of "\$400.00" has been added.

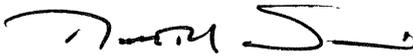
3. DOQ Page 2

Delete DOQ Page 2 in its entirety and replace with DOQ Page 2(R-1) attached to this Addendum No.2. Item Code T20.2020 quantity updated To "656.00".

F. Other Contract Changes

1. Electronic Bidding Procedure Notice

Insert new pages, the "Electronic Bidding Procedure Notice" (8 pages) attached to this Addendum No.2. All bid offers must be prepared in accordance with the Electronic Bidding Package.



RI Department of Transportation
Chief Engineer

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GENERAL PROVISIONS - CONTRACT SPECIFIC

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	STRIPING QUANTITY VERIFICATION FORM	
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	TYPICAL DETAILS – RECESSED PAVEMENT	

The Department reserves the right to schedule all work to its own priorities. In the event of a change in Departmental striping priorities, the Engineer will notify the Contractor (via verbal, electronic, or written communication) of the desired work schedule. Upon receipt of notification from the Engineer of the desired work, the Contractor must begin said work within twenty-four (24) hours unless permission to begin the work at a later time is granted by the Engineer. The holiday work schedule restrictions indicated in Paragraph 3 – Permissible Working Hours will be taken into consideration.

The Engineer may inspect the Contractor’s equipment and personnel prior to the award of this Contract.

The Engineer reserves the right to determine the number and type of work crews that are to be used by the Contractor on any work day.

The Contractor shall submit on the job material samples to the Department at the frequency specified by the Engineer.

The Contractor’s attention is called to the milestone dates for the completion of all pavement marking replacement work included in this Contract, as specified in Paragraph 8 – Milestone and Completion Dates.

The Contractor’s pavement striping equipment shall include truck-mounted footage counters for each type of line applied and truck-mounted sensors for the determination of pavement surface and ambient air temperatures during marking application.

All markings installed by the Contractor that are determined by the Engineer to be defective and not in conformance with the Contract Specifications shall be repaired by the Contractor at no additional cost to the State. Repair methods shall be detailed and submitted for approval to the Engineer prior to corrective action. The Contractor shall begin repairs within one (1) week of being notified by the Engineer of the defective markings.

The Contractor’s foreman/supervisor on site during pavement marking installation work shall be qualified by the epoxy resin pavement marking manufacturer to install the manufacturer’s epoxy resin pavement markings. The Contractor shall submit a copy of the letter(s) from the manufacturer indicating such foreman/supervisor qualification to the Engineer for review and approval prior to the start of work.

3. PERMISSIBLE WORKING HOURS

All pavement markings shall be installed during off-peak hours.

No longline pavement marking installation work shall take place between 7:00 a.m. and 7:00 p.m. on any day of the week, unless otherwise directed by the Engineer.

All daytime work between the hours of 9:00 a.m. and 3:00p.m. are for testing purposes only.

No work shall take place on Friday and Saturday nights between 7:00 p.m. and 7:00 a.m. the next morning, unless permission to do so is granted by the Engineer.

All Friday daytime work on any holiday weekend must end by 1:00 p.m. The holiday work schedule is as follows:

2011 Holiday Work Schedule

*Easter – No day or night work Saturday, April 23rd through Sunday April 24th.

Memorial Day - No day or night work from Saturday, May 28th through Monday, May 30th.

Independence Day - No day or night work from Saturday, July 2nd through Monday, July 4th.

†Victory Day - No day or night work from Saturday, August 6th through Monday, August 8th.

Labor Day - No day or night work from Saturday, September 3rd through Monday, September 5th.

Columbus Day - No day or night work from Saturday, October 8th through Monday, October 10th.

*Veterans Day - No day or night work from Thursday, November 10th through Sunday, November 13th.

*Thanksgiving Day - No day or night work from Wednesday, November 23rd through Sunday, November 27th.

†Christmas Day- No day or night work from Saturday, December 24th through Monday, December 26th.

2012 Holiday Work Schedule

*Easter – No day or night work Saturday, April 7th through Sunday April 8th.

Memorial Day - No day or night work from Saturday, May 26th through Monday, May 28th.

Independence Day - No day or night work from Tuesday, July 3rd through Wednesday, July 4th.

†Victory Day - No day or night work from Saturday, August 11th through Monday, August 13th.

Labor Day - No day or night work from Saturday, September 1st through Monday, September 3rd.

Columbus Day - No day or night work from Saturday, October 6th through Monday, October 8th.

*Thanksgiving Day - No day or night work from Wednesday, November 21st through Sunday, November 25th.

Christmas Day - No day or night work from Monday, December 24th through Tuesday, December 25th.

*** Note: Work may resume on 7:00pm on Sunday evening**

†Note: Work may resume on 7:00pm on Monday evening

6. STRIPING QUANTITY VERIFICATION FORM

The Contractor shall fill out a Striping Quantity Verification Form during and/or at the end of each work shift and, at least once a week, submit to the Engineer for approval. The Contractor shall take care in ensuring that the forms are filled out completely and correctly for each section of roadway included in this Contract. A blank version of the form is provided on the following page. The Engineer will supply the Contractor with a copy of a blank form before the start of work activities.

Multiple forms should be used for any given work shift if the number of roadways where striping work is completed exceeds the number of roadways provided on one form. The Contractor shall not write in the spaces entitled "TOTALS" on the form.

The costs for making copies and for the filling out of the forms on this project will be paid for under the unit prices bid for all pavement marking items.

7. SUBMISSION OF DETAILED STRIPING SCHEDULE

The Contractor shall submit a detailed schedule within thirty (30) days of the date of execution of the Contract for review by the Department. The schedule shall conform to all requirements of Paragraph 5 – Completion of Work on Each Roadway.

8. MILESTONE AND COMPLETION DATES

The following milestone dates for the completion of replacement work have been established as part of this Contract:

Group A

- PHASE 1 completion date is September 30, 2011 for long line work only, and PHASE 2 completion date is November 15, 2011 for all other work.

Group B

- PHASE 3 completion date is September 30, 2012 for long line work only, and substantial completion date is November 15, 2012 for all other work.

Failure to comply with these milestone dates will subject the Contractor to Liquidated Damages, in accordance with Section 108 of the Rhode Island Department of Transportation Standard Specifications for Road and Bridge Construction 2004 Edition, for each day after the milestone date has passed until the appropriate replacement work has been completed.

9. RETROREFLECTION VALUES

A minimum retroreflection value of 350 mcd/lum/m² for white and 225 mcd/lum/m² for yellow for all installed epoxy resin pavement markings shall be required to receive compensation at 100% of the Contract unit price. The epoxy resin marking retroreflection values corresponding to compensation are as follows:

Retroreflection Values:

Minimum 350 / 225 (white / yellow)	-----100 % Contract unit price.
Minimum 330 / 205 (white / yellow)	----- 90 % Contract unit price.
Minimum 310 / 185 (white / yellow)	----- 80 % Contract unit price.
Minimum 300 / 175 (white / yellow)	----- 75 % Contract unit price.
Below 300 / 175 (white / yellow)	----- 0 % Contract unit price.

For the purpose of verifying reflectivity values for the above minimum pavement schedule, a CONTRACTOR QUALITY CONTROL TESTING RETROREFLECTIVITY OR PAVEMENT MARKINGS form shall be used and submitted to the resident engineer within thirty (30) days of the installation date for payment.

10. TRANSPORTATION MANAGEMENT PLAN

Included as an appendix to these Contract Specific General Provisions is the Transportation Management Plan (TMP) for this project. The TMP lays out the set of coordinated transportation management strategies that have been, are being, and/or will be used to manage the work zone safety and mobility impacts of this project. In the event of a discrepancy between information in the TMP and information elsewhere in the Contract Documents, the former shall govern.

The Contractor's attention is called to the Compilation of Approved Specifications Supplement No. 8 for Part 100, General Requirements and Covenants, which describes the requirements for the Contractor's designation of a TMP Implementation Manager for the project and the requirements for the training of all Contractor and Subcontractor personnel involved in the implementation of the TMP.

The Department's latest Training Guidelines for Personnel Responsible for Work Zone Safety & Mobility are available at <http://www.dot.ri.gov/humanresources/index.asp> under the "Training" section.

11. CROSSWALK CROSSHATCHING

Crosswalk crosshatching (white diagonal lines installed between transverse crosswalk lines at a 45-degree angle to the line of the crosswalk) shall not be installed within a crosswalk across any approach to a traffic signal or any approach controlled by a STOP or YIELD sign. At each location where a crosswalk with crosshatching exists at such an intersection, the Contractor shall remove all crosswalk markings and install new transverse crosswalk lines only (the crosshatching shall not be replaced).

12. YIELD LINE INSTALLATION

The Contractor shall install white epoxy resin yield line pavement markings at each location where YIELD sign(s) are installed at intersections on each of the roadways listed in Paragraph 18 – Limits of Work & Estimated Quantities. While the quantities and locations of some yield lines are included in Paragraph 18 – Limits of Work & Estimated Quantities, there are other locations not listed in the tables where new yield lines must be installed for compliance with the above.

Where yield line pavement markings are not currently installed at the locations noted above, the Contractor shall install each new yield line in accordance with the following criteria:

- The installation of yield line markings shall be in accordance with the Manual on Uniform Traffic Control Devices, 2009 Edition, except that each of the individual yield line triangles installed at each yield line location shall have a base of 24” and a height of 36”, as shown in the Typical Details – Pavement Markings section of the Contract Documents.
- Where crosswalks are absent from a yield-controlled approach, yield lines should be placed at the location of the YIELD sign(s), but shall not be placed more than thirty (30) feet nor less than four (4) feet from the nearest edge of the intersecting traveled way.
- Where crosswalks are present on a yield-controlled approach, yield lines should be placed at the location of the YIELD sign(s), but shall not be placed more than thirty (30) feet from the nearest edge of the intersecting traveled way, nor less than four (4) feet in advance of the crosswalk (or the nearest edge of the intersecting traveled way).

13. POLICE COMPENSATION

It will be the responsibility of the RIDOT Engineer to retain the services of the State and/or local police with cruisers for traffic control and protection for this project. The Contractor will not be required to bid on, or compensate for, the services of the State and local police.

14. LIMITATIONS ON CLEANING AND SWEEPING OF PAVEMENT

The Contractor shall note that the Department is scheduled to conduct its own statewide pavement cleaning and sweeping operations on all State roadways following the winter shutdown periods in 2011 and 2012.

An item for the cleaning and sweeping of pavement has been included in this Contract to account for the likelihood that some paved areas will need to be cleaned and swept by the Contractor before the start of striping operations. The Engineer will determine and verbally communicate to the Contractor which areas shall be cleaned and swept as part of this project. The Contractor shall only perform cleaning and sweeping operations on those paved areas identified by the Engineer.

15. REMOVAL OF PAVEMENT MARKINGS

Removal of existing pavement markings by grinding prior to the installation of new markings as part of replacement work operations is required on each of the roadway segments included in this Contract. Removal of existing markings will be paid for under the unit prices bid for each individual pavement marking item, and will not be measured separately for payment.

18. LIMITS OF WORK

GROUP A (Page 1 of 3)

ROADWAY	LIMITS	TOWN / CITY	4" White LF	4" Yellow LF	6" White LF	12" Yellow LF	12" White LF	RI Std. 20.1.0 Arrow EA	RI Std. 20.1.0 "ONLY" EA	BICYCLE SYMBOL EA	PEDESTRIAN SYMBOL EA	HANDICAP SYMBOL EA	RR CROSSING EA	"PED X-ING AHEAD" EA	"X-ING" EA	"SLOW" EA	"SPEED HUMPS AHEAD" EA	YIELD EA	
Dexter St.	Pawtucket C/L to Lonsdale Ave.	Central Falls	0	7,392	7,392	0	4,866	2	1	0	0	0	0	0	0	0	0	0	0
Lonsdale Ave.	Dexter St. to Walker Lane (Lincoln T/L)	Central Falls	0	3,700	3,815	0	1083	0	0	0	0	0	0	0	0	0	0	0	0
Albion Rd.	Lincoln T/L to Mendon Rd.	Cumberland	0	8,800	8,800	0	25	0	0	0	0	0	0	0	0	0	0	0	0
Angell Rd. (Route 116)	Mendon Rd. (Route 122) to Diamond Hill Rd.	Cumberland	0	15,840	15,840	0	135	5	3	0	0	0	0	0	0	0	0	0	1
Broad St.	Central Falls C/L to Mendon Rd.	Cumberland	0	16,948	17,198	0	3,700	8	7	0	0	0	0	0	0	0	0	0	0
Chambers St.	Broad St. to John St. (One Way Loop West)	Cumberland	0	1,320	2,640	0	18	0	0	0	0	0	0	0	0	0	0	0	0
Dexter St. (Route 123)	Broad St. to Massachusetts S/L	Cumberland	0	5,920	7,322	0	39	0	0	0	0	0	0	0	0	0	0	0	0
Diamond Hill Rd. (Route 114)	Pine Swamp Rd. to Hines St.	Cumberland	0	55,440	59,680	0	2,252	5	5	0	0	0	0	0	0	0	0	0	2
High St. (Route 114)	Broad St. to Hines Rd.	Cumberland	0	21,120	21,560	0	2,439	2	2	0	0	0	0	0	0	0	0	0	1
John St.	Lincoln T/L (Blackstone River) to Broad St.	Cumberland	0	5,280	5,280	0	115	2	1	0	0	0	0	0	0	0	0	0	0
Little Pond County Rd.	Whipple Hwy. to Diamond Hill Rd.	Cumberland	0	12,400	12,400	0	44	0	0	0	0	0	0	0	0	0	0	0	0
Marville Rd. (Route 120)	Lincoln T/L to Mendon Rd. (Route 122)	Cumberland	0	12,300	12,900	0	1,383	0	0	0	0	0	0	0	0	0	0	0	0
Marshall Ave.	Mendon Rd. (Route 122) to Diamond Hill Rd.	Cumberland	0	6,350	6,638	0	138	2	1	0	0	0	0	0	0	0	0	0	0
Mendon Rd. (Route 122)	Lincoln T/L to Woonsocket T/L	Cumberland	0	63,847	72,582	200	8,188	41	25	0	0	0	4	0	0	0	0	0	2
Mill St. (aka Ann & Hope Way)	Mendon Rd. (Route 122) to Broad St.	Cumberland	0	2,486	2,570	0	168	3	3	0	0	0	0	0	0	0	0	0	0
Nate Whipple Hwy. (Route 120)	Mendon Rd. (Route 122) to Massachusetts S/L	Cumberland	0	44,165	44,848	0	1,335	0	0	0	0	0	0	0	0	0	0	0	0
Pine Swamp Rd. (Route 114) aka W. Wrentham Rd.	Diamond Hill Rd. to Woonsocket C/L	Cumberland	0	26,400	26,400	0	540	2	2	0	0	0	0	0	0	0	0	0	0
Sneech Pond Rd.	Loops 1 mi. East of Route 114 on Nate Whipple Hwy.	Cumberland	0	2,016	2,016	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Sneech Pond Rd.	Loops from Route 120 to North Attleboro Rd.	Cumberland	0	2,000	2,000	0	0	0	0	0	0	0	0	0	0	0	0	0	0
West Wrentham Rd.	Mendon Rd. to Pine Swamp Rd. (Route 114)	Cumberland	0	23,365	26,064	0	81	3	0	0	0	0	0	0	0	0	0	0	0
Wrentham Rd. (Route 121)	Pine Swamp Rd. (Route 114) to Massachusetts S/L	Cumberland	0	10,560	10,760	0	456	3	3	0	0	0	0	0	0	0	0	0	0

GROUP A (Page 2 of 3)

ROADWAY	LIMITS	TOWN / CITY	4" White LF	4" Yellow LF	6" White LF	12" Yellow LF	12" White LF	Rt Std. 201.0 Arrow EA	Rt Std. 201.0 "ONLY" EA	BICYCLE SYMBOL EA	PEDESTRIAN SYMBOL EA	HANDICAP SYMBOL EA	RR CROSSING EA	"PED X-ING AHEAD" EA	"X-ING" EA	"SLOW" EA	"SPEED HUMPS AHEAD" EA	YIELD EA
Albion Rd. (Route 123)	Old River Rd. West Bound to End	Lincoln	0	5,280	5,280	0	100	1	0	0	0	0	0	0	0	0	0	0
Albion Rd. (Route 123)	Smithfield T/L to Geo. Washington Hwy. (Route 116)	Lincoln	0	9,650	9,650	0	200	1	1	0	0	0	0	0	0	0	0	0
Breakneck Hill Rd. (Route 123)	Great Rd. to Lousisquissett Pike (Route 246)	Lincoln	0	15,840	15,840	0	63	3	2	0	0	0	0	0	0	0	0	0
Front St. (Route 123)	Smithfield Rd. To Lonsdale Ave.	Lincoln	0	16,840	17,390	0	1,538	4	1	0	0	0	0	0	0	0	0	0
George Washington Hwy. (Route 116)	Smithfield T/L to Mendon Rd. (Route 122)	Lincoln	0	30,000	38,000	200	1,950	25	19	0	0	0	0	0	0	0	0	1
Great Rd.	Breakneck Hill Rd. to 0.7 mi. north of Sherman Ave.	Lincoln	0	15,840	15,840	0	138	0	0	0	0	0	0	0	0	0	0	0
Great Rd. (Route 123)	Front St. to Breakneck Hill Rd.	Lincoln	0	7,920	7,920	0	130	0	0	0	0	0	0	0	0	0	0	0
Jenks Hill Rd. (Route 122)	Old Lousisquissett Pike (Route 246) to Smithfield T/L	Lincoln	0	26,400	26,400	0	918	2	1	0	0	0	0	2	0	0	0	0
John St.	Lonsdale Ave. to Cumberland T/L	Lincoln	0	2,640	2,640	0	98	1	1	0	0	0	0	0	0	0	0	0
Lonsdale Ave. (Route 122)	Central Falls C/L to Cumberland T/L	Lincoln	0	15,840	15,840	0	770	2	2	0	0	0	0	0	0	0	0	0
Main St. (aka Mainville Rd.)	Old River Rd. to Cumberland T/L	Lincoln	0	5,280	5,280	0	315	0	0	0	0	0	0	0	0	0	0	0
New River Rd. (aka Railroad Ave.)	Old River Rd. to School St.	Lincoln	0	27,200	28,500	0	296	0	0	0	0	0	0	0	0	0	0	0
Old Lousisquissett Pike (Route 216)	N. Providence T/L to Route 146	Lincoln	0	104,544	104,544	0	784	17	6	0	0	0	0	0	0	0	0	0
Old River Rd. (Route 126)	River Rd. to Woonsocket T/L	Lincoln	0	79,200	79,400	0	1,382	4	4	0	0	0	0	0	0	0	0	0
River Rd. (Route 126)	Front St. Old River Rd.	Lincoln	0	23,760	23,760	0	570	0	0	0	0	0	0	0	0	0	0	0
Sayles Hill Rd. (Route 120)	N. Smithfield T/L to Old River Rd.	Lincoln	0	7,022	7,022	0	702	4	3	0	0	0	0	0	0	0	0	0
School St.	Old River Rd. to Cumberland T/L	Lincoln	0	4,900	4,900	0	56	0	0	0	0	0	0	0	0	0	0	0
Smithfield Ave. (Route 126)	Pawtucket C/L to Front St.	Lincoln	0	20,568	22,544	0	1,237	0	0	0	0	0	0	0	0	0	0	0
Twin River Rd.	Smithfield T/L to Olney Rd./Lincoln Woods	Lincoln	0	24,344	25,134	0	340	28	5	0	0	0	0	0	0	0	0	6
Walker St.	Smithfield Rd. to Lonsdale Ave.	Lincoln	0	4,034	4,034	0	41	0	0	0	0	0	0	0	0	0	0	0

GROUP A (Page 3 of 3)

ROADWAY	LIMITS	TOWN / CITY	4" White LF	4" Yellow LF	6" White LF	12" Yellow LF	12" White LF	RI Std. 20.1.0 Arrow EA	RI Std. 20.1.0 "ONLY" EA	BICYCLE SYMBOL EA	PEDESTRIAN SYMBOL EA	HANDICAP SYMBOL EA	RR CROSSING EA	"PED X-ING AHEAD" EA	"X-ING" EA	"SLOW" EA	"SPEED HUMPS AHEAD" EA	YIELD EA	
Centerdale By-Pass	Smith St. (Route 44) to Putnam Pike (Route 44)	N. Providence	0	2,600	2,600	0	1,346	10	7	0	0	0	0	0	0	0	0	0	3
Charles St.	Providence C/L to Route 146	N. Providence	0	10,560	10,560	0	1,580	1	1	0	0	0	0	0	0	0	0	0	0
Douglas Pike (Route 7)	Providence C/L to Smithfield T/L	N. Providence	0	19,008	20,000	0	1,904	0	0	0	0	0	0	0	0	0	0	0	0
High Service Rd.	Smith St. (Route 44) to Smithfield Rd.	N. Providence	0	6,492	7,024	0	694	2	2	0	0	0	0	0	0	0	0	0	1
Mineral Spring Ave. (Route 15)	Centerdale By-Pass to Pawtucket C/L	N. Providence	0	41,204	33,896	0	6,320	156	30	0	0	0	0	0	0	0	0	0	0
Old Louississett Pike (Route 246)	Route 146 to Lincoln T/L	N. Providence	0	5,280	5,280	0	24	0	0	0	0	0	0	0	0	0	0	0	0
Smith St. (Route 44)	Providence C/L to Johnston T/L	N. Providence	0	22,176	22,627	0	3,547	6	9	3	4	0	0	0	4	0	0	0	0
Smithfield Rd.	Providence C/L to Mineral Spring Ave. (Route 15)	N. Providence	0	10,418	11,146	0	949	2	1	0	0	0	0	0	0	0	0	0	0
Waterman Ave. (Route 104)	Smith St. (Route 44) to Smithfield T/L	N. Providence	0	10,560	10,830	0	1,654	1	1	0	0	0	0	0	0	0	0	0	0
Woonasquatucket Avenue	Smith St. (Route 44) to Providence C/L 1.6	N. Providence	0	15,972	16,902	0	1,558	0	0	0	0	0	0	0	0	0	0	0	0
Armistice Boulevard (Route 15)	York Ave. to Massachusetts S/L	Pawtucket	0	28,754	17,311	0	3,722	2	2	0	0	0	0	0	0	0	0	0	0
Benefit St.	Broadway (Route 1) to Massachusetts S/L	Pawtucket	0	33,729	33,792	0	3,078	1	1	0	0	0	1	0	0	0	0	0	0
Central Ave.	Broadway to Massachusetts S/L	Pawtucket	0	36,960	38,390	0	5,609	5	4	0	0	0	2	0	0	0	0	0	0
Dexter St.	Goff Ave. to Central Falls C/L	Pawtucket	0	5,280	5,280	0	2,101	10	10	0	0	0	0	0	0	0	0	0	0
Newport Ave. (Route 1A)	E. Providence C/L to Massachusetts S/L	Pawtucket	0	26,400	47,520	0	7,981	11	7	0	0	0	0	0	0	0	0	0	0
Park and Ride	Grace and George Streets	Pawtucket	400	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Park and Ride	Grace and Pine Streets	Pawtucket	460	0	0	0	0	4	0	0	0	4	0	0	0	0	0	0	0
Smithfield Ave. (Route 126)	Providence C/L to Lincoln T/L	Pawtucket	0	16,500	17,500	0	4,967	0	0	0	0	0	0	0	0	0	0	0	0
Cumberland Hill Rd.	Mendon Rd. to Hamlet Ave.	Woonsocket	0	13,500	15,037	0	1,641	11	9	0	0	0	0	0	0	0	0	0	3
Diamond Hill Rd. (Route 114)	Cumberland T/L to Massachusetts S/L	Woonsocket	0	33,160	44,350	0	3,626	22	18	0	0	0	0	0	0	0	0	0	0
Manville Rd. (Route 126)	N. Smithfield T/L to Hamlet Ave.	Woonsocket	0	21,120	21,120	0	2,063	4	4	0	0	0	1	0	0	0	0	0	1
Mendon Rd. (Route 122)	Cumberland T/L to Massachusetts S/L	Woonsocket	0	32,736	33,679	0	3,362	26	20	0	0	0	0	0	0	0	0	0	0
GROUP A TOTAL:			860	1,187,060	1,243,467	400	95,819	444	224	3	4	4	8	2	4	0	0	0	50

GROUP B (Page 1 of 4)

ROADWAY	LIMITS	TOWN / CITY	4" White LF	4" Yellow LF	6" White LF	12" Yellow LF	12" White LF	RI Std. 20.1.0 Arrow EA	RI Std. 20.1.0 "ONLY" EA	BICYCLE SYMBOL EA	PEDESTRIAN SYMBOL EA	HANDICAP SYMBOL EA	RR CROSSING EA	"PED X-ING AHEAD" EA	"X-ING" EA	"SLOW" EA	"SPEED HUMPS AHEAD" EA	YIELD EA
Bronco Hwy. (Route 102)	N. Smithfield T/L to Gloucester T/L	Burrillville	0	32,500	36,920	0	1,466	2	2	0	0	0	0	0	0	0	0	0
Buckhill Rd.	Wallum Lake Rd. (Route 100) to Connecticut S/L	Burrillville	0	25,100	25,188	0	113	0	0	0	0	0	0	0	0	0	0	0
Chapel St. (Route 107)	Route 100 to Main St. (Route 98)	Burrillville	0	5,280	5,280	0	1,093	0	0	0	0	0	0	0	0	0	0	0
Church St. (Route 100)	High St. to Walham Lake Rd. (Route 100)	Burrillville	0	10,560	10,560	0	134	0	0	0	0	0	0	0	0	0	0	0
Douglas Pike (Route 7)	N. Smithfield T/L to Joslin Rd.	Burrillville	0	5,280	5,280	0	201	0	0	0	0	0	0	0	0	0	0	0
East Ave. (Route 107)	Steere Farm Rd. (Route 98) Victory Hwy.	Burrillville	0	16,500	16,500	0	359	0	0	0	0	0	0	0	0	0	0	0
High St.	South Main St. (Route 100) to Church St.	Burrillville	0	1,056	1,056	0	111	0	0	0	0	0	0	0	0	0	0	0
Main St. (Route 98)	East Ave. (Route 107) to School St. (Route 96)	Burrillville	0	5,280	5,280	0	1,409	2	2	0	0	0	0	0	0	0	0	1
Reservoir Rd.	South Main St. (Route 100) to Gloucester T/L	Burrillville	0	26,400	26,400	0	16	0	0	0	0	0	0	0	0	0	0	0
River St.	Chapel St. to Round Top Rd. (Route 96)	Burrillville	0	952	952	0	11	0	0	0	0	0	0	0	0	0	0	0
Round Top Rd. (Route 96)	School St. to Massachusetts S/L	Burrillville	0	39,692	39,692	0	88	0	0	0	0	0	0	0	0	0	0	0
School St. (Route 96) aka Callahan Sch.Rd.	Sherman Farm Rd. to Round Top Rd. (Route 96)	Burrillville	0	4,224	4,224	0	608	0	0	0	0	0	0	0	0	0	0	0
Sherman Farm Rd. (Route 98)	School St. (Route 96) to Massachusetts S/L	Burrillville	0	15,523	15,523	0	144	0	0	0	0	0	0	0	0	2	2	0
South Main St. (Route 100)	Gloucester T/L to Main St. (Route 107)	Burrillville	0	10,560	10,626	0	818	2	2	0	0	0	0	0	0	0	0	0
Steere Farm Rd. (Route 98)	Gloucester T/L to East Ave. (Route 107)	Burrillville	0	14,467	14,467	0	117	0	0	0	0	0	0	0	0	0	0	0
Victory Hwy. (Old Route 102)	Bronco Hwy. to Bronco Hwy. (Route 102)	Burrillville	0	56,320	57,244	0	311	2	2	0	0	0	0	0	0	0	0	0
Wallum Lake Rd. (Route 100)	Church St. (Route 100) to Massachusetts S/L	Burrillville	0	21,120	21,120	0	347	0	0	0	0	0	0	0	0	0	0	0
Annan Wade Rd.	Snake Hill Rd. to Hartford Pike (Route 101)	Glocester	0	11,842	14,874	0	111	0	0	0	0	0	0	0	0	0	0	0
Douglas Hook Rd.	Putnam Pike to Whipple Rd.	Glocester	0	14,600	14,684	0	46	0	0	0	0	0	0	0	0	0	0	0
Money Hill Rd. (Route 100)	Victory Hwy. (Route 102) to Burrillville T/L	Glocester	0	4,224	4,600	0	412	0	0	0	0	0	0	0	0	0	0	0
Mount Hygea Rd. (Route 94)	Putnam Pike (Route 44) to Hartford Pike (Route 101)	Glocester	0	26,400	26,400	0	104	0	0	0	0	0	0	0	0	0	0	0
Putnam Pike (Route 44)	Smithfield T/L to Connecticut T/L	Glocester	0	126,544	109,085	0	1,635	4	1	0	0	0	0	0	0	0	0	0
Reservoir Rd.	Burrillville T/L to Putnam Pike (Route 44)	Glocester	0	20,636	26,400	0	134	0	0	0	0	0	0	0	0	0	0	0
Saw Mill Rd.	Putnam Pike (Route 44) to Scituate T/L	Glocester	0	23,702	19,682	0	194	0	0	0	0	0	0	0	0	0	0	0

GROUP B (Page 2 of 4)

ROADWAY	LIMITS	TOWN / CITY	4" White LF	4" Yellow LF	6" White LF	12" Yellow LF	12" White LF	RI Std 20 1.0 Arrow EA	RI Std 20 1.0 "ONLY" EA	BICYCLE SYMBOL EA	PED SYMBOL EA	HANDICAP SYMBOL EA	RR CROSSING EA	"PED X-ING AHEAD" EA	"X-ING" EA	"SLOW" EA	"SPEED HUMPS AHEAD" EA	YIELD EA
Snake Hill Rd.	West Greenville Rd. to Anan Wade Rd.	Glocester	0	65,932	63,360	0	667	0	0	0	0	0	0	0	0	0	0	0
Stears Farm Rd. (Route 98)	Money Hill Rd. (Route 100) to Burrillville T/L	Glocester	0	844	844	0	28	0	0	0	0	0	0	0	0	0	0	0
Victory Hwy. (Route 102)	Scituate T/L to Burrillville T/L	Glocester	0	52,800	52,800	0	182	0	0	0	0	0	0	0	0	0	0	0
West Greenville Rd. (Route 116)	Scituate T/L to Smithfield T/L	Glocester	0	5,280	5,280	0	67	0	0	0	0	0	0	0	0	0	0	0
Central St.	Route 146A to Massachusetts S/L	N. Smithfield	0	4,068	4,068	0	15	0	0	0	0	0	0	0	0	0	0	0
Douglas Pike (Route 7)	Smithfield T/L to Burrillville T/L	N. Smithfield	0	31,680	31,680	0	485	0	0	0	0	0	0	0	0	0	0	0
Eddie Dowling Hwy. (Route 146A)	Route 146 to Park Square	N. Smithfield	0	8,916	10,966	0	185	13	9	0	0	0	0	0	0	0	0	0
Farnum Pike (Route 104)	Providence Pike (Route 5) to Woonsocket C/L	N. Smithfield	0	29,884	29,884	0	993	0	0	0	0	0	0	0	0	0	0	0
Farnum Pike (Route 104)	Smithfield T/L to Providence Pike (Route 5)	N. Smithfield	0	21,120	21,120	0	100	0	0	0	0	0	0	0	0	0	0	0
Great Rd. (Route 146A)	Park Ave. to Victory Hwy. (Route 102)	N. Smithfield	0	35,052	39,082	0	270	6	6	0	0	0	0	0	0	0	0	0
Main St. (Route 5)	North Main Street (Route 5) to Victory Hwy. (Route 102)	N. Smithfield	0	22,809	22,809	0	489	0	0	0	0	0	0	0	0	0	0	0
North Main St.	Main Street to Great Rd. (Route 146A)	N. Smithfield	0	5,280	5,280	0	651	0	0	0	0	0	0	0	0	0	0	0
North Smithfield Industrial Hwy.	Providence Pike to Route 146	N. Smithfield	0	14,045	14,045	0	70	0	0	0	0	0	0	0	0	0	0	0
Old Louisissett Pike	Eddie Dowling Hwy. (Route 146A) to E. Dowling Hwy.	N. Smithfield	0	5,280	5,280	0	18	0	0	0	0	0	0	0	0	0	0	0
Providence Pike (Route 5)	Smithfield T/L to Main St./Greene St.	N. Smithfield	0	43,296	43,296	0	910	0	0	0	0	0	0	0	0	0	0	0
Quaker Hwy. (Route 146A)	Victory Hwy. (Route 102) to Massachusetts S/L	N. Smithfield	0	7,100	7,100	0	78	0	0	0	0	0	0	0	0	0	0	0
Sayles Hill Rd. (Route 120)	Route 146 to Lincoln T/L	N. Smithfield	0	3,484	3,484	0	153	0	0	0	0	0	0	0	0	0	0	0
School Street / Greene Street	North Main Street to Great Rd.	N. Smithfield	0	17,529	17,529	0	90	0	0	0	0	0	0	0	0	0	0	0
St Paul St.	Great Rd. (Route 146A) to South of Mendon Rd.	N. Smithfield	0	11,566	11,566	0	185	0	0	0	0	0	0	0	0	0	0	0
Steele St.	North Smithfield Industrial Hwy. to End	N. Smithfield	0	878	878	0	76	0	0	0	0	0	2	0	0	0	0	0
Victory Hwy. (Route 102)	Burrillville T/L to Great Rd.	N. Smithfield	0	21,150	26,969	0	2,081	4	4	0	0	0	0	0	0	0	0	0

GROUP B (Page 3 of 4)

ROADWAY	LIMITS	TOWN / CITY	4" White LF	4" Yellow LF	6" White LF	12" Yellow LF	12" White LF	RI Std. 201.0 Arrow EA	RI Std. 201.0 "ONLY" EA	BICYCLE SYMBOL EA	PED SYMBOL EA	HANDICAP SYMBOL EA	RR CROSSING EA	"PED X-ING AHEAD" EA	"X-ING" EA	"SLOW" EA	"SPEED HUMPS AHEAD" EA	YIELD EA	
Albion/Jenks Hill Rd.	Lincoln T/L to Lincoln Lane	Smithfield	0	6,970	6,970	0	68	0	0	0	0	0	0	0	0	0	0	0	0
Cedar Swamp Rd. (Route 5)	Putnam Pike (Route 44) to Pleasant View Ave. (Route 116)	Smithfield	0	15,840	15,840	0	230	9	6	0	0	0	0	0	0	0	0	0	0
Dean Ave.	Putnam Pike (Route 44) to County Rd.	Smithfield	0	8,022	8,022	0	1,327	0	0	0	0	0	0	0	0	0	0	0	0
Douglas Pike (Route 7)	N. Providence T/L to N. Smithfield T/L	Smithfield	0	70,330	72,560	0	5,019	35	34	0	0	0	0	0	0	0	0	2	0
Esmond St.	Putnam Pike (Route 44) to Dean Ave.	Smithfield	0	4,224	4,224	0	38	2	2	0	0	0	0	0	0	0	0	0	0
Farnum Pike (Route 104)	N. Providence T/L to N. Smithfield T/L	Smithfield	0	66,528	66,528	0	1,592	4	4	0	0	0	0	0	0	0	0	0	0
George Washington Hwy. (Route 116)	Farnum Pike (Route 104) to Lincoln T/L	Smithfield	0	73,920	81,825	0	230	22	7	0	0	0	0	0	0	0	0	3	0
Greenville Ave.	Johnston T/L to Putnam Pike (Route 44)	Smithfield	0	15,840	15,840	0	1,296	0	0	0	0	0	0	0	0	0	0	0	0
Limerock Rd.	Douglas Pike (Route 7) to Jenks Hill Rd.	Smithfield	0	17,530	17,530	0	113	0	0	0	0	0	0	0	0	0	0	0	0
Old County Rd.	Dean Ave. to Farnum Pike (Route 104)	Smithfield	0	34,848	34,848	0	210	0	0	0	0	0	0	0	0	0	0	0	0
Pleasant View Ave. (Route 5/116)	Route 104 to Cedar Swamp Rd. (Route 5)	Smithfield	0	18,770	18,770	0	2,110	5	5	0	0	0	0	0	0	0	0	0	0
Pleasant View Ave. (Route 5/116)	Putnam Pike (Route 44) to Cedar Swamp Rd. (Route 5)	Smithfield	0	23,012	22,888	0	2,436	6	6	0	0	0	0	0	0	0	0	2	0
Providence Pike (aka Branch Pike)	Douglas Pike to N. Smithfield T/L	Smithfield	0	5,280	5,280	0	335	0	0	0	0	0	0	0	0	0	0	0	0
Putnam Pike (Route 44)	Johnston Town Lane to Gloucester T/L	Smithfield	0	43,930	52,761	0	5,978	66	42	0	0	0	0	0	0	0	0	2	0
Sanderson Rd. (Route 5)	Greenville Ave. to Putnam Pike (Route 44)	Smithfield	0	6,124	6,124	0	145	18	15	0	0	0	0	0	0	0	0	0	0
Smith Ave. (Route 116)	Putnam Pike (Route 44) to Gloucester T/L	Smithfield	0	12,782	12,342	0	2,040	0	0	0	0	0	0	0	0	0	0	1	0
Twin River Rd.	Douglas Pike (Route 7) to Lincoln T/L	Smithfield	0	3,500	3,500	0	18	2	2	0	0	0	0	0	0	0	0	1	0
Waterman Ave. (Route 104)	N. Providence T/L to Esmond St.	Smithfield	0	7,920	7,920	0	386	0	0	0	0	0	0	0	0	0	0	1	0
West Greenville Rd.	Smith Ave. to Putnam Pike (Route 44)	Smithfield	0	7,920	7,920	0	14	0	0	0	0	0	0	0	0	0	0	0	0
GROUP B TOTAL:			0	1,370,773	1,391,543	120	41,340	212	151	0	0	0	2	0	0	2	2	50	

**CONTRACTOR QUALITY CONTROL
TESTING FORM
RETROREFLECTIVITY PAVEMENT MARKINGS (ASTM E1710/D6359)**

**CONTRACTOR QUALITY CONTROL TESTING
RETROREFLECTIVITY OF PAVEMENT MARKINGS (ASTM E1710/D6359)**

Date: _____

RI Contract No: _____ F.A.P. No: _____

Project/Location: _____ Limits: _____

Stripe Description (Color/Width): _____

Date Applied: _____ # of Days: _____

Manufacturer/Meter Serial No: _____ ID Code: _____

Length Tested: _____ Contractor: _____

Date Calibrated: _____ Verified after reading / ID number(s): _____

Section 1 start near (loc / spacing):

1		6		11		16	
2		7		12		17	
3		8		13		18	
4		9		14		19	
5		10		15		20	

Location #: _____ Thickness: _____ mils Average: _____

Section 2 start near (loc / spacing):

1		6		11		16	
2		7		12		17	
3		8		13		18	
4		9		14		19	
5		10		15		20	

Location #: _____ Thickness: _____ mils Average: _____

Section 3 start near (loc / spacing):

1		6		11		16	
2		7		12		17	
3		8		13		18	
4		9		14		19	
5		10		15		20	

Location #: _____ Thickness: _____ mils Average: _____

Total Average: _____

Meets Spec: Does Not Meet Spec:

Remarks: _____

Certified Technician(s) _____ Date _____

Accepted By _____ Date _____



Project Name: **ARRA Statewide Pavement Striping - North**

RI Design Contract No(s): **N/A**

RI Construction Contract No(s): **2010-CT-095**

Submission: **FINAL**

Date: **12/13/2010**

PROJECT INFORMATION

Brief Project Description: This project includes the installation and removal of pavement markings as well as road side delineators throughout the North region of the State on the roadways listed in the contract documents, all in conformance with the latest Manual on Uniform Traffic Control Devices and its latest revisions. Pavement marking installation and removal trucks and hand carts, pavement sweepers and debris collection vehicles, and shadow and advance warning vehicles will all be used within the roadway limits.

Work Limits: State roadways and selected Park & Ride lots listed in the contract documents within the municipalities of Burrillville, Central Falls, Cumberland, Glocester, Lincoln, North Providence, North Smithfield, Pawtucket, Smithfield, and Woonsocket. Short-duration lane closures will be implemented, via either mobile operations (for long line installation/removal) or stationary operations (for word, symbol, stop line, etc. installation/removal).

ROADWAYS DIRECTLY AFFECTED BY PROJECT WORK ZONES			
ROADWAY NAME	FROM	TO	LENGTH
All State roadways in northern region of State	See Limits of Work Tables in CS Pages		200 mi.

General Project Schedule: Work is expected to begin in Spring 2011, and will take place in two separate groups (GROUP A and GROUP B).

GROUP A - Phase 1 completion date is September 30, 2011 for long line work only, and Phase 2 November 15, 2011 for all other work; GROUP A pavement marking work shall be completed in the following municipalities:

- Central Falls
- Cumberland
- Lincoln
- North Providence
- Pawtucket
- Woonsocket

GROUP B - Phase 3 completion date is September 30, 2012 for long line work only, substantial completion November 15, 2012 for all other work; GROUP B pavement marking work shall be completed in the following municipalities:

- Burrillville
- Glocester
- North Smithfield
- Smithfield

TRAFFIC-RELATED WORK RESTRICTIONS

General No work shall take place between 7:00 a.m. and 7:00 p.m. on any day of the week.

Restrictions: No work shall take place on Friday and Saturday nights between 7:00 p.m. and 6:00 a.m. the next morning.

No longline pavement marking installation work shall take place between 7:00 a.m. and 7:00 p.m. on any day of the week, unless otherwise directed by the Engineer.

Holiday All Friday daytime work on any holiday weekend must end by 1:00 p.m.

Restrictions: Specific holiday work restrictions are as follows:

2011 Holiday Work Schedule

* Easter - No day or night work Saturday, April 23rd through Sunday April 24th.

Memorial Day - No day or night work from Saturday, May 28rd through Monday, May 30th.

Independence Day - No day or night work from Saturday, July 2nd through Monday, July 4th.

†Victory Day - No day or night work from Saturday, August 6th through Monday, August 8th.

Labor Day - No day or night work from Saturday, September 3rd through Monday, September 5th.

Columbus Day - No day or night work from Saturday, October 8th through Monday, October 10th.

* Veterans Day - No day or night work from Thursday, November 10th through Sunday, November 13th.

* Thanksgiving Day - No day or night work from Wednesday, November 23rd through Sunday, November 27th.

†Christmas - No day or night work from Saturday, December 24th through Monday, December 26th.

2012 Holiday Work Schedule

* Easter - No day or night work Saturday, April 7th through Sunday April 8th.

Memorial Day - No day or night work from Saturday, May 26th through Monday, May 28th.

Independence Day - No day or night work from Tuesday, July 3rd through Wednesday, July 4th.

†Victory Day - No day or night work from Saturday, August 11th through Monday, August 13th.

Labor Day - No day or night work from Saturday, September 1st through Monday, September 3rd.

Columbus Day - No day or night work from Saturday, October 6th through Monday, October 8th.

* Thanksgiving Day - No day or night work from Wednesday, November 21th through Sunday, November 25th.

Christmas - No day or night work from Monday, December 24th through Tuesday, December 25th.

* Note: Work may resume on 7:00pm on Sunday Evening †Note: Work may resume on 7:00pm on Monday Evening

INDEX

SPECIFICATIONS – JOB SPECIFIC

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928.9901	Truck-Mounted Attenuator with CMS	JS-2
931.9901	Cleaning and Sweeping Pavement for Statewide Striping	JS-5
T20.9901, T20.9902, T20.9904, T20.9905, T20.9906, T20.9907, T20.9908, T20.9909, T20.9910, T20.9911, T20.9912, T20.9913, T20.9914, T20.9919	Epoxy Resin Pavement Markings	JS-6
T20.9920, T20.9922	Reflectorized Pavement Marker (Slotted in pavement) White And Reflectorized Pavement Marker (Slotted in pavement) Yellow	JS-10
T20.9921, T20.9923	Recessed Pavement Markings: 6” White and 4” Yellow	JS-12
T20.9916	As Needed Striping Installation and Removal Work – Force Account	JS-14
929.1000	Special Requirements for Field Office	JS-18
937.1000	Maintenance and Movement of Traffic Protective Devices	JS-20

JOB SPECIFIC

CODE 12.108.1000 – Prosecution and Progress

In accordance with **Section 12.108.08, Failure to Complete on Time, Para. A., Phased and Interim Completion** the following defines the Phase and Interim Completion Dates and Associated Liquidated Damages:

Group A

1. Phase 1 Completion Long Line work: September 30, 2011
2. Phase 2: All remaining work shall be completed for Phase 2 by November 15, 2011. Completion will be the point at which all replacement work within the phase is complete such that it can be safely and effectively used by the public, and to the satisfaction of the Engineer.

Liquidated Damages: \$1,500.00 per calendar day

Group B

3. Phase 3 Completion Long Line work: September 30, 2012
4. Phase 3: All remaining work shall be completed for Phase 3 by September 30, 2012. Completion will be the point at which all replacement work within the phase is complete such that it can be safely and effectively used by the public, and to the satisfaction of the Engineer.

Liquidated Damages: \$1,500.00 per calendar day

5. Substantial Completion: November 15, 2012

All Contract work shall be completed as defined by **Section 12.101.71**.

Liquidated Damages: \$1,500.00 per calendar day

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JOB SPECIFIC

**CODES T20.9901, T20.9902, T20.9904, T20.9905, T20.9906, T20.9907, T20.9908,
T20.9909, T20.9910, T20.9911, T20.9912, T20.9913, T20.9914, T20.9919**

EPOXY RESIN PAVEMENT MARKINGS

DESCRIPTION: This work consists of furnishing and applying reflectorized, two-component, hot-spray applied epoxy resin pavement marking material on asphaltic and Portland cement concrete pavement surfaces. Upon curing, it produces an adherent reflectorized stripe of specified thickness and width capable of resisting wear from traffic. This work also includes the removal of existing epoxy resin pavement markings by grinding prior to the installation of new epoxy resin material. This work also includes certified testing reports for all pavement markings placed on all roadways. All work shall be performed in accordance with these Specifications, Section T.20 of the Rhode Island Standard Specifications for Road and Bridge Construction, 2004 Edition with latest revisions, and the Contract Documents.

MATERIALS: Materials shall conform to Section M.17 – Pavement Markings of the Rhode Island Standard Specifications for Road and Bridge Construction, 2004 Edition with latest revisions, with the following exceptions:

CONSTRUCTION METHODS: Construction Methods shall conform to Section T.20 – Pavement Markings of the Rhode Island Standard Specifications for Road and Bridge Construction, 2004 Edition with latest revisions, with the following exceptions:

Delete Subsection T.20.03.6 d. 1. Grinding on page T-45 and T-46 of the Rhode Island Standard Specifications for Road and Bridge Construction, 2004 Edition in its entirety and replace it with the following:

T.20.03.06 d. 1. Grinding. All existing pavement marking material (including binder and beads) situated above the level plane of the top substrate surface shall be removed by grinding. Existing marking material embedded in pavement cavities below the level plane of the top surface course pavement binder shall not be removed by the grinding operation unless otherwise directed by the Engineer. The method shall not damage the surface and have no more than a moderate color and/or texture change. The grinding truck shall be equipped with a vacuum and dust collector that is 99.99 percent efficient in removing particles no bigger than 0.5 microns. All pavement markings removed must be replaced in 5 working days. Removal is at no extra cost. A sweeper with the capacity to pick up grindings simultaneously with the removal operation is required.

Establishment of Measurement Lots

For the purposes of certifying that pavement markings are installed in accordance with contract requirements, each of the roadways and facilities upon which pavement markings are installed shall be divided into distinct measurement areas by the Contractor. A measurement area (LOT) is hereby defined as a section of roadway or facility within which the total quantity of each distinct item of pavement marking work as listed in the Proposal

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(e.g., 6 Inch Epoxy Resin Pavement Markings White) shall be considered a single unit for the purposes of inspection, certification, and acceptance. The Contractor shall comply with the following five criteria for the establishment of each LOT:

The maximum length of a LOT shall be in accordance with the D.O.Q. and ASTM D 6359.

1. A LOT shall not extend past the intersection of two signed Interstate, U.S., or State route numbers (e.g., U.S. Route 44 at State Route 94).
2. At least one separate and distinct LOT shall be established for each of the roadway segments and facilities listed in the Limits of Work.
3. At least one separate and distinct LOT shall be established for each ramp associated with each of the freeways and expressways listed in the Limits of Work.
4. A LOT on an undivided roadway shall be taken to include all markings installed for both directions of traffic.
5. A LOT on a divided freeway, expressway, or arterial shall be taken to include all markings installed in only one direction of traffic (i.e., separate LOTS shall be established in each direction of travel). Each LOT established on these types of roadways shall be "mirrored" by a LOT with identical limits in the opposite direction of travel.

The Contractor shall submit its proposed list of LOTs to RIDOT within 30 calendar days following the contract notice to proceed date. RIDOT will review the LOT list and notify the Contractor in writing whether or not it concurs with the list. If the LOT list is not approved by RIDOT, the Contractor shall make any changes requested and resubmit to RIDOT for approval before beginning any pavement marking installation work.

The approved LOT list shall be used by the Contractor in completing inspections and certifications for all pavement markings installed under this contract, all in accordance with the criteria described in the following sections. RIDOT may use the approved LOT list to select areas of roadways and facilities to be inspected for contract compliance.

Pavement Marking Inspection Methods and Frequency

General

The Contractor shall be responsible for inspecting each type of installed pavement marking on all roadways and facilities included in the contract. The Contractor shall also be responsible for providing RIDOT with all inspection results and certifications in an acceptable format, as described in the *Submission of Certifications* section of this specification. All personnel performing reflectivity testing shall be certified by ATTSA or the manufacturer of the equipment or equivalent to.

The Contractor shall furnish and implement appropriate temporary traffic controls during all inspection and certification work described in this specification. All temporary traffic control shall be in accordance with the provisions of the Transportation Management Plan for the project.

RIDOT reserves the right to perform random and/or periodic spot checks of the pavement marking LOTS. RIDOT may request Traffic Control to be performed by the contractor for these analyses. This Traffic Control as requested is at no additional cost to the State.

In the event RIDOT and QC retroreflectivity readings vary using the 30 meter retroreflectivity instrument in accordance with ASTM E 1710 "Test Method for Measurement of Retroreflective Pavement Marking Materials with CEN-Prescribed Geometry Using a Portable Retroreflectometer" and certified personnel, RIDOT results shall govern.

Inspection Schedule and Frequency

The Contractor shall be responsible for developing and managing an overall inspection program to ensure that all pavement markings are inspected and installed in accordance with the stipulations of this section.

Initial Inspection and Certification of Newly Installed Markings:

The Contractor shall conduct an inspection of all newly installed pavement markings at least 14 but not more than 60 calendar days after the installation of the markings. Also at the time of placement of said striping the contractor shall use a 4 inch by 8 inch aluminum tab taken in the field at the time of striping for each test area and forwarded to the striping Resident Engineer for his inspection. These tabs will be well cured and labeled from their locations.

Exceptions to the Standard Inspection and Certification Schedule:

RIDOT may request that the Contractor conduct additional or more frequent inspections of retroreflectivity than described in these specifications in one or more specific LOTS if it is determined that the retroreflectivity of the markings within the LOT are determined to be deficient, as defined in the *Pavement Marking Performance Requirements – Retroreflectivity* section of these specifications.

Inspection Methods and Procedures

Dimensions:

For each type of longitudinal line marking, the Contractor shall measure the width and height (depth) of the marking at ten separate but evenly spaced locations within each LOT. The dimensions (both width and height) of each type of longitudinal marking to be reported for each overall LOT shall be the average of all measurements taken within the LOT.

Also the contractor shall provide the engineer with field sample tabs of each longitudinal line striped for centerline and edge line on each roadway. These tabs will be well cured and labeled from their locations.

Retroreflectivity:

The photometric quality of markings to be evaluated by the Contractor is the coefficient of retroreflected luminance (R_L) and shall be expressed as millicandelas per square meter per lux ($\text{mcd}/\text{m}^2/\text{lx}$). For each type of longitudinal line marking, the Contractor shall evaluate the retroreflectivity with a RIDOT approved hand held portable retroreflectometer unit with 30 meter CEN geometry similar to LTL unit by Delta Light or equal in accordance with ASTM E1710 and the frequencies and evaluation per ASTM D 6359.

Pavement Marking Performance Requirements

Dimensions

The reported width of each type of longitudinal line marking within each LOT shall differ no more than

- 4 inch \pm 1/4 inch
- 6 inch \pm 1/4 inch
- 10 inches and above \pm 1/2 inch

- Lateral deviation shall not exceed one inch in 100 feet.
- Length of ten-foot skip markings shall not deviate more than 3 inches.

The reported height (thickness) of all pavement markings within each LOT shall be greater than or equal to 20 mils (wet film thickness).

Each type of longitudinal marking in a LOT with a recorded width that differs more than 1/4-inch, and any pavement marking type in a LOT with a recorded height of less than 20 mils, shall be deemed deficient, and the Contractor shall replace the markings with new acceptable markings at no additional cost to RIDOT.

Retroreflectivity

The reported retro reflectivity of each type of pavement marking in each LOT shall be greater than or equal to the minimum requirements as specified in Table 4 below for the type of roadway facility, monitoring event, and color of marking indicated and will be paid for in accordance with the schedule shown.

Table 4 – Minimum Acceptable LOT Retroreflectivity Values¹ of Pavement Markings

Minimum 350 / 225 (white / yellow)	100 % contract unit price
Minimum 330 / 205 (white / yellow)	90 % contract unit price
Minimum 310 / 185 (white / yellow)	80 % contract unit price
Minimum 300 / 175 (white / yellow)	75 % contract unit price
Below 300 / 175 (white / yellow)	0 % contract unit price

¹ Retroreflectivity evaluated in accordance with ASTM E 2176 or ASTM E 1710, Entrance Angle = 88.76° and Observation Angle = 1.05°

Each type of marking in a LOT with a recorded retroreflectivity below the applicable minimum acceptable value in Table 4 shall be deemed deficient and the Contractor shall replace the markings with new acceptable markings at no additional cost to RIDOT.

Any values below the initial readings payment table below shall follow:

Deficiencies

General

In addition to the action required of the Contractor in response to a deficiency as set forth in this specification, the Contractor will be charged a performance-related penalty if the requirements presented in the *Basis of Payment* section are not met.

Notice of Deficiencies

The Contractor shall review all data collected for each LOT before reporting it to RIDOT. The Contractor is expected to notice all discrepancies that the data indicates exist within the project work limits. Upon learning of a deficiency through its own monitoring activities, the Contractor shall take steps to correct the deficiency by removal and reapplication of each specific type of marking deemed deficient within the entire deficient LOT, as described below.

When RIDOT determines through its own monitoring activities that it is necessary to remove a deficiency, it will contact the Contractor in writing or by phone within 30 calendar days of first becoming aware of the deficiency. The Contractor shall take similar action as it would have had it learned of the deficiency through its own monitoring activities.

Correction of Deficiencies

Upon discovery or notification of a deficiency, the Contractor shall take steps to incorporate pavement marking replacement work within the LOT(s) deemed deficient into its ongoing pavement marking installation program. During all marking replacement work, the Contractor shall use procedures that will not damage the pavement and that will completely eliminate the deficient markings. All replacement markings shall be in accordance with the material and performance requirements described herein.

Deficiencies within a LOT shall be corrected within thirty (30) calendar days of discovery or notification of deficiencies in that LOT. If the Contractor fails to correct the deficiencies within the 30 calendar days specified, the RIDOT may choose to exercise its authority to have the deficiencies corrected by any other lawful means, including requiring the surety to correct the deficiencies. The Contractor shall be responsible for the cost of all such corrective work. All work and materials (including, but not limited to, all temporary traffic control, flagpersons, and police details) required for the correction of deficiencies shall be at no additional cost to the RIDOT.

When the Contractor is required to replace pavement marking material but the date, temperature, or humidity conditions do not allow marking materials to be installed in full accordance with the manufacturer's guidelines, recommendations, and/or specifications, the Contractor shall install and maintain temporary pavement markings in accordance with the Standard Specifications, latest Edition, within one week from discovery or notification of the deficiency. The installation, maintenance, and removal of the temporary pavement marking shall be solely the Contractor's expense. Temporary markings shall remain in place until such time that the date, temperature, and humidity allow the installation of the permanent replacement marking material in accordance with manufacturer's instructions and specifications.

Exclusion of Deficiencies

If RIDOT determines, or if the Contractor determines and notifies RIDOT who subsequently agrees with the Contractor's determination in writing, that one or a combination of the following factors are directly and solely responsible for any deficiency under consideration, the conditions of the *Basis of Payment* section will not apply to the deficiency within that LOT, and the Contractor will be excluded from the penalties described therein:

1. Determination that the deficiency was due to failure of the pavement surface
2. Determination that the deficiency was due to work done on the roadway by a third party

Because RIDOT reserves the right to conduct its own evaluations at any time prior to final acceptance, the Contractor is reminded that any evaluation finding that installed markings have fallen below the minimum performance requirements presented herein is cause to replace the existing markings with new markings.

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Submission of Certifications

Following the installation and inspection of markings within each LOT, a certification signed by the Contractor shall be submitted to the Engineer stating that all such markings within each LOT have been installed in accordance with the contract performance requirements, The Contractor will not be paid for any pavement marking installation work until a signed certification is received and approved by the Engineer.

Each certification submitted to the Engineer shall indicate the following:

- LOT number and limits
- Roadway/Facility name
- Route number or numbers (if applicable)
- Travel direction (if applicable)
- Pavement marking material and glass bead testing
- Substrate (pavement) surface type
- Date, time, and weather conditions present during which each lot was installed
- Date, time, and weather conditions present during which each inspection was completed
- Complete set of retroreflectivity, dimensional, color, and other measurements that were collected

The inspection and certification results for each LOT with new pavement markings installed shall be submitted within 30 calendar days to RIDOT, in both print and electronic data formats as prescribed. The notarized certificate of compliance from the material manufacturer shall be provided to RIDOT at the same time as the results of the testing and certification.

Payments to the contractor will be based on Testing certifications.

METHOD OF MEASUREMENT: “Epoxy Resin Pavement Markings” will be measured by one of the following units, each as actually placed in accordance with the Plans and/or as directed by the Engineer:

a.) “Lump Sum” (LS): For each of the following types and widths of markings:

- 4” – White
- 4” – Yellow
- 6” – White
- 12” – White
- 12” – Yellow

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b.) "Each": For each of the following types of marking items:

- Railroad Crossing Symbol
- Pedestrian Symbol
- Disabled Person Symbol
- "X-ING" word
- "YIELD" word
- Yield Line (inclusive of multiple yield line triangles placed side by side at one location)
- Bike Symbol
- Arrow - Straight, Left, Right, or Combined
- "Speed Humps Ahead" word
- "SLOW" word
- "PED X-ING ADHEAD" word

BASIS OF PAYMENT: "Epoxy Resin Pavement Markings" will be paid for at their respective contract unit prices per Lump Sum (LS) or for each (EACH) for each type or types, as listed in the proposal complete in place and accepted, with consideration of the minimum retroreflection compensation criteria provided below. Such price shall constitute full compensation for movement of the Contractor's personnel and work equipment to and from the work sites, removal of existing markings, cleaning of pavement, furnishing, layout, and application of the marking material, partitioning the roadways and facilities upon which pavement markings are installed into LOTS, performing inspections of markings in said LOTS to check for compliance with the performance-based requirements of the contract, submitting certifications of such compliance to RIDOT, repairing and/or installing new pavement markings to replace all markings within said lots that are determined to be non-compliant with the performance requirements, and for all labor, equipment, tools, materials, and incidentals necessary to complete the work to the satisfaction of the Engineer.

Pavement marking installation certifications will not be paid for separately, but shall be considered an incidental obligation of the Contractor, with all costs of said inspections and certifications distributed among the contract unit prices for pavement marking items.

Retroreflection Values:

Minimum 350 / 225 (white / yellow)	-----	100 % contract unit price
Minimum 330 / 205 (white / yellow)	-----	90 % contract unit price
Minimum 310 / 185 (white / yellow)	-----	80 % contract unit price
Minimum 300 / 175 (white / yellow)	-----	75 % contract unit price
Below 300 / 175 (white / yellow)	-----	0 % contract unit price

JOB SPECIFIC

CODES T20.9921 AND T20.9923

RECESSED PAVEMENT MARKINGS: 6" WHITE AND 4" YELLOW

DESCRIPTION: This work shall consist of furnishing and installing a three bead drop application consisting of glass beads and ceramic reflective elements as part of a multiple component, retroreflective traffic monitoring system. Also this work shall consist of spraying a two part hot sprayed applied Epoxy resin in a 40-50 mil groove on existing pavement. This system in accordance with provisions and in reasonably close conformance to the dimensions and lines shown on then plans and along with Section T.20 of the Rhode Island Standard Specifications for Road and Bridge Construction, 2004 Edition with latest revisions, and the Contract Documents.

MATERIALS: Materials shall conform to Section M.17 – Pavement Markings of the Rhode Island Standard Specifications for Road and Bridge Construction, 2004 Edition with latest revisions.

This specification describes the glass and ceramic elements used to reflectorize in epoxy pavement marking binder material at a thickness of 20 mils.

The binder material shall be applied in a liquid state by methods as called out in the specifications and immediately followed by application of bonded ceramic elements and glass beads. The resulting traffic marking system shall produce a stripe of specified thickness, length, and width that is retroreflective in dry and wet conditions and capable of resisting deformation by traffic.

CONSTRUCTION METHODS: Construction Methods shall conform to Section T.20 – Pavement Markings of the Rhode Island Standard Specifications for Road and Bridge Construction, 2004 Edition with latest revisions, with the following exceptions:

Add the following to **Subsection T.20.03.6 f. Application:**

A space of 20-30 mils shall exist between the top of the newly installed epoxy resin markings and the top surface of the existing pavement outside the groove, all as shown on the Plans.

Delete **Subsection T.20.03.6 d. 1. Grinding** on page T-45 and T-46 of the Rhode Island Standard Specifications for Road and Bridge Construction, 2004 Edition in its entirety and replace it with the following:

T.20.03.06 d. 1. Grinding. Contractor shall install a groove in the existing pavement at a depth of 40-50 mils in thickness as shown on the Plans. All existing pavement marking material (including binder and beads) shall be removed as part of this grinding operation. The grinding truck shall be equipped

with a vacuum and dust collector that is 99.99 percent efficient in removing particles no bigger than 0.5 microns. All pavement markings removed must be replaced in 3 working days. A sweeper with the capacity to pick up grindings simultaneously with the removal operation is required.

METHOD OF MEASUREMENT: "Recessed Pavement Markings" will be measured by the following units, each as actually placed in accordance with the Plans and/or as directed by the Engineer:

"Linear Feet" (LF): For each of the following types and widths of markings:

- 6" – White
- 4" – Yellow

BASIS OF PAYMENT: "Recessed Pavement Markings" will be paid for at their respective contract unit prices per Linear Feet (LF) for each type or types, as listed in the proposal complete in place and accepted, with consideration of the minimum retroreflection compensation criteria provided below. Price shall constitute full compensation for movement of the Contractor's personnel and work equipment to and from the work sites, installation of grooves in pavement, cleaning of pavement, furnishing, layout, and application of the marking material in the grooves, copying and completion of striping quantity verification forms, performing inspections of such markings to check for compliance with the performance-based requirements of the contract, submitting certifications of such compliance to RIDOT, repairing and/or installing new pavement markings to replace all markings within said lots that are determined to be non-compliant with the performance requirements, and for all labor, equipment, tools, materials, and incidentals necessary to complete the work to the satisfaction of the Engineer.

Pavement marking installation certifications will not be paid for separately, but shall be considered an incidental obligation of the Contractor, with all costs of said inspections and certifications distributed among the contract unit prices for pavement marking items.

Retroreflection Values:

Minimum 350 / 225 (white / yellow)	-----	100 % contract unit price
Minimum 330 / 205 (white / yellow)	-----	90 % contract unit price
Minimum 310 / 185 (white / yellow)	-----	80 % contract unit price
Minimum 300 / 175 (white / yellow)	-----	75 % contract unit price
Below 300 / 175 (white / yellow)	-----	0 % contract unit price

JOB SPECIFIC

929.1000

SPECIAL REQUIREMENTS FOR FIELD OFFICE

DESCRIPTION. The items of computer equipment and software to be provided for this Contract in accordance with **Para. C. of Subsection 929.03.5; Special Requirements for Field Office**, of the RI Standard Specifications for Road and Bridge Construction, 2004 Edition, consist of the following:

1. One (1) DeskJet color printer capable of printing standard and custom paper sizes from 3 by 5 inches to 11 by 17 inches. Print quality shall be 1200 by 1200 dpi minimum resolution for black and white printing and 4800 X 1200 optimized dpi for color printing. It shall be capable of printing up to 20 ppm (black and white) and up to 15 ppm (color).
2. One (1) laser printer capable of printing standard and custom paper sized from 3 by 5 inches to 11 by 17 inches. Print quality shall be 1200 by 1200 dpi minimum resolution and have a minimum of 64 MB RAM.
3. Two (2) New IBM compatible laptop computers with a Dual Core processor (2.16 GHz minimum); 120 GB (5400 rpm) hard drive (minimum); 14" LCD screen (minimum); 2 GB of RAM (minimum); 10/100 network interface card; 1.44 MB 3.5" floppy disk drive; CD-RW/DVD drive; 56K KPS modem; wireless network card; broadband internet access (3Mbps nominal connection speed) and Internet Service Provider, 9 cell primary battery, two AC/DC power adaptors, extra 9 cell battery, and carrying bag. Installed software shall include: Microsoft Windows XP Professional with the latest service packs and security updates, Microsoft Office Professional (2003 edition) with the latest service packs, Adobe Acrobat Professional 9.0 (or better), AutoCAD 2005 (or better), and Symantec Endpoint Protection 11.0 with subscription support for the life of the project. All installation CDs, licenses, registration codes and user manuals/documentation shall be provided to the Engineer.
4. Two (2) Docking Stations with a minimum of the following: 1 Ethernet RJ-45 port, 4 USB 2.0 ports, 2 PS/2 ports, 1 serial port and 1 parallel port and a compatible monitor stand, two (2) 101 key enhanced keyboards, two (2) optical mouse with scroll wheel, and two (2) 21" Wide Screen Flat Panel LCD screens (minimum).
5. One (1) 500 GB External Hard Drive.
6. One (1) approved facsimile machine meeting the following minimum standards; desktop transceiver; automatic fax/tel switch with only one phone line needed; 10 page document feeder; 9600 bps modem speed with automatic fallback; answering machine interface; 20 location capacity; one-touch dial with 16 locations; PSTN line connection; monitor speaker; 16 character LCD size; local copy function; status/error indicators; transmit and receive confirmation reports; no more than 15 pounds in weight; 120V-60 HZ power requirement; built-in handset; image control resolution of 200 x 100 ipi at

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standard, 200 x 200 ipi at fine, and 200 x 400 ipi at super fine; 16 level grey scale; automatic redial 2 times at 3 minute intervals and 128 KB memory capacity. The Contractor shall provide a separate phone line for the facsimile machine.

7. One (1) desktop copying machine with an automatic document feeder, or a compatible machine approved by the Engineer.
8. Two (2) 10.0 megapixel digital camera with wide-angle 5X internal optical zoom and 2.5 inch LCD screen. The camera shall be dustproof, waterproof to 13 feet (4 meters), and coldproof to sub-zero temperatures.
9. The computer equipment and software, camera and hard drive shall become property of the State after the Contract Completion.
10. Dust shields and a security cabinet capable of physically containing all hardware, software, and accessories.
11. Surge Protectors for all the above equipment.
12. The Contractor shall provide maintenance and supplies for the life of the project. Supplies for both new and existing field office equipment shall include but, are not limited to, 3.5" DSHD floppy disks, CD-R disks with jewel cases, DVD-R disks with jewel cases, CD storage case, toner, inks, all paper, etc. All supplies shall be provided with the original installation of the computer equipment and as required, as soon as possible after notification by the Resident Engineer.
13. On delivery of computer equipment to a field office, the Resident Engineer must contact the **(DoIT)** Service Desk Service@DoIT.ri.gov to arrange for State Inventory. The resident engineer must provide the detail spec of the computer equipment, location of the field site and the completion date of the project. The Resident Engineer must also contact the service desk Service@DoIT.ri.gov at the end of the project to pull the computer equipment into DOT State inventory or if the computer equipment needs to move from one location to another.

JOB SPECIFIC

**CODE 937.1000 – MAINTENANCE AND MOVEMENT OF TRAFFIC PROTECTIVE
DEVICES**

DESCRIPTION: Subsection 937.05.2; Failure to Comply, of the Standard Specifications, requires that a daily charge be deducted from monies due to the Contactor for failure to satisfactorily maintain traffic control devices.

The charge for this Contract will be \$ 1,000.00 per day.

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Distribution of Quantities

Project Name - ARRA Statewide Pavement Striping - North
 Estimate Name - Addendum 2
 R.I. Contract No. - 2010-CT-095
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Item No.	Item Code	Description	UM	Qty.	Pay Code	Seq. No.
001	914.5010	FLAGPERSONS	MHRS			
		PROJECTWIDE				
		STATEWIDE		6,000.00	0021	01
Item 914.5010 Total:				6,000.00		
002	914.5020	FLAGPERSONS - OVERTIME	MHRS			
		PROJECTWIDE				
		STATEWIDE		3,000.00	0021	01
Item 914.5020 Total:				3,000.00		
003	922.0100	TEMPORARY CONSTRUCTION SIGNS	SF			
		STANDARD 29.1.0 AND 27.1.1				
		STATEWIDE				
		STATEWIDE		250.00	0021	01
Item 922.0100 Total:				250.00		
004	923.0200	FLUORESCENT TRAFFIC CONES STANDARD	EACH			
		26.1.0				
		STATEWIDE				
		STATEWIDE		400.00	0021	01
Item 923.0200 Total:				400.00		
005	928.9901	TRAFFIC CONTROL TRUCK WITH TRUCK	PDAY			
		MOUNTED ATTENUATOR AND CHANGEABLE				
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Item 928.9901 Total:				825.00		
006	931.9901	CLEANING AND SWEEPING PAVEMENT FOR	PDAY			
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Distribution of Quantities

Project Name - ARRA Statewide Pavement Striping - North
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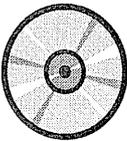
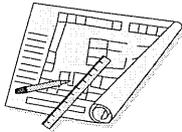
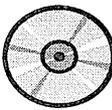
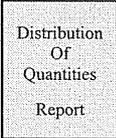
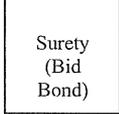
Item No.	Item Code	Description	UM	Qty.	Pay Code	Seq. No.
006	931.9901	Cont.		90.00		
				Item 931.9901 Total:		
007	T20.2020	EPOXY RESIN PAVEMENT ARROW - STRAIGHT, LEFT, RIGHT, OR COMBINED STANDARD 20.1.0 STATEWIDE STATEWIDE	EACH	656.00	0021	01
				Item T20.2020 Total:		
008	T20.2022	EPOXY RESIN PAVEMENT MARKING WORD "ONLY" STANDARD 20.1.0 STATEWIDE STATEWIDE	EACH	375.00	0021	01
				Item T20.2022 Total:		
009	T20.9901	4" EPOXY RESIN PAVEMENT MARKING - YELLOW PROJECTWIDE STATEWIDE	LS	1.00	0021	01
				Item T20.9901 Total:		
010	T20.9902	6" EPOXY RESIN PAVEMENT MARKING - WHITE PROJECTWIDE STATEWIDE	LS	1.00	0021	01
				Item T20.9902 Total:		
011	T20.9904	12" EPOXY RESIN PAVEMENT MARKING - YELLOW PROJECTWIDE STATEWIDE	LS	1.00	0021	01
				Item T20.9904 Total:		

*** THIS IS A DISK-BASED BID ***

**ELECTRONIC BIDDING
PROCEDURE NOTICE**

**ALL BID OFFERS MUST BE PREPARED USING THE QUEST LITE BID
PREPARATION SOFTWARE PACKAGE**

Bidders **MUST** register in person at the RIDOT Contract Administration office to obtain the necessary Bidder Registration and Digital ID codes for the Quest Lite software.

RIDOT Provides:		Bidder Must Submit:	
			
CD	Plans (on CD)	CD w/Quest Lite Bid "zip" file; *CD w/Proposal, Bid Bond & RIVIP Cert. in pdf format	Completed & Signed Proposal (Hard Copy & CD*)
			
Contract Documents (on CD)	DOQ Report (on CD)	Bid Surety (Hard Copy & CD*)	Completed & Signed (Hard Copy & CD*)

Contact the Contracts & Specifications Office at 222-2495 to request technical assistance on issues directly related to the Quest Lite software.
Office Hours: 8:00 AM – 4:00 PM

***Refer to the RIDOA "Notice to Contractors" for additional information on the "Public Copy" submission requirements.**

NO BID OFFER WILL BE CONSIDERED
UNLESS ACCOMPANIED BY A COMPACT DISK (CD)
CONTAINING THE BID PROPOSAL FILE
GENERATED BY THE QUEST LITE BID PREPARATION SOFTWARE

Failure to comply will result in a mandatory disqualification per Section 12.102.07 of the RI Dept. of Administration Division of Purchases Procurement Regulations

Rhode Island Department of Transportation (RIDOT)

Notice to Contractors

THIS IS A DISK-BASED BID

Bid offers will be accepted *only on a CD generated by RIDOT-supplied software called Quest Lite; each CD must be accompanied by a hard copy signed offer printed from the software and submitted at the Bid Opening.* Minimum computer hardware and operating system requirements are listed here. *Training is strongly recommended for all new bidders and others unfamiliar with these procedures. SEE BELOW.*

CONTACT: **RIDOT CONTRACTS & SPECIFICATIONS**
Rm. 108, Two Capitol Hill, Providence, RI 02903
Phone: **401-222-2495**
Hours: **Mon – Fri, 8:00AM – 4:00PM**

1. Required Registration Codes for Each Bidder.

Registration Codes for RIDOT software are necessary to install and use the software; a firm only needs to register once to acquire secure, unique bidder identification codes to be used with all RIDOT disk-based construction project bids. Bidders must retain these codes for future use.

2. The required Quest Lite installation software and all applicable Contract Documents are provided on a CD-ROM.

The Contract Documents include the RI DOA Division of Purchases Procurement Regulations, RI Standard Specifications, Amended December 2010 and all revisions, the RI Standard Details for Highway and Bridge Construction, Bridge Standard Details, General Provisions, Special Provisions, Distribution of Quantities and Engineering Plans, and all other applicable documents.

3. Minimum Computer Hardware and Operating System Requirements.

- Windows XP SP2 w/Pentium IV processor
- CD-ROM Drive, Floppy Drive, Printer & 15" Monitor (17" recommended)
- 20GB Hard Disk with 1GB free (40 GB with 5 GB free recommended)
- 512 MB RAM (1 GB recommended)
- 32 MB Video Card (64 MB SVGA recommended)
- Internet Explorer 6.0 SP 2

4. Addenda, when necessary, are available on Purchases' RIVIP website.

at: <http://www.purchasing.ri.gov/RIVIP/BidSearch.asp>

RIDOT will make all necessary addenda available at Purchases' web site. It is the plan-holders responsibility to poll the RIVIP to keep up-to-date on addenda.

5. Training may be requested up to three days prior to the Bid Opening.

Training is provided on request. Arrangements must be made through the RIDOT Contracts & Specifications Office at least three (3) days prior to the Bid Opening of the project.

6. Technical Support.

Assistance is available upon request by contacting the Contracts & Specifications office during work hours or emailing Quest@dot.ri.gov.

01/25/2011

NOTICE TO HIGHWAY AND BRIDGE CONTRACTORS

Rhode Island Department of Transportation (RIDOT)
Contracts and Specifications

ELECTRONIC BIDDING PROCEDURES QUEST LITE UPGRADE

Effective January 1, 2011, bid offers for all RIDOT Contracts requiring the use of the Department's Quest Lite bid preparation software **MUST** be prepared using **Quest Lite Version 040408 (2.8.4)**. Failure to comply with this requirement could result in the disqualification of your bid offer.

Full installation and upgrade-only software packages, including installation directions, for Quest Lite Version **040408 (2.8.4)** will be provided on the Project Advertising CD's, which are available to prospective bidders through the Contracts and Specifications office on or after the scheduled project advertising date.

Contractors presently using Quest Lite Version 040407 (2.8.3) need only install the upgrade package to complete the conversion, **UNLESS** a previous upgrade installation was used to upgrade from 2.8.2 to 2.8.3, in which case these installations must be removed and the full installation performed. Earlier versions (2.8.2 or lower) will require the full installation in all instances.

For technical assistance, contact the Contracts and Specifications office at 222-2495.

QUEST LITE VERSION 4.4.8 (2.8.4)

UPGRADE & FULL INSTALLATION

All bid offers prepared using the Department of Transportation's Quest Lite software must use the Quest Lite Version 040408 (2.8.4). If there is no Quest Lite installation, then the full installation must be completed. For earlier versions of Quest Lite, either the upgrade or full installation will be required to be completed. Both versions (upgrade and full installation) are provided on this project CD.

Before proceeding with any installations, note the following:

1. All users must register with the Department of Transportation in order to use Quest Lite. At the time of registration, users are provided with a set of unique company ID codes (Site Code, Bidder Code and company Short Name). Users **MUST RETAIN** these codes for future use.
2. Many users who currently have Quest Lite installed will only require the installation of the upgrade version. To determine if the upgrade installation is sufficient, the present version of the Quest Lite installation must be determined. This is accomplished in Quest Lite by clicking on Help/About. If the present version is 040407 (2.8.3) then the upgrade installation is sufficient **unless** an upgrade version has been previously used to upgrade version 2.8.2 to 2.8.3.
3. For earlier installations (versions below 2.8.3, and if an upgrade has been previously installed to upgrade to version 2.8.3), the full installation of Quest Lite is required. (Note: if the full installation is required, the upgrade installation **does not** need to be performed after the full installation is completed.)
4. To determine if an upgrade version of Quest Lite version is present, it is generally easiest to use the "Add or Remove Programs" function from the Control Panel to view the Quest Lite installations. Should both an installation and an upgrade version be installed, both programs must be removed using the "Remove" function and the new version 2.8.4 installed.
5. It is recommended that users consult the Quest Lite User Manual provided on this CD prior to attempting the installation of the upgrade or full program installation.
6. After completing the installation of the upgrade or full installation, it is recommended that a test bid be submitted to the Department to ensure the program is functioning correctly and that the Quest Lite bid files can be correctly imported into the Department's Quest program. Test bids may be submitted on a CD to the Contracts office in Room 109 of the RIDOT Headquarters, or by e-mail to Quest@dot.ri.gov.

Installation Instructions – Upgrade Version

Upgrade Quest Lite only if the current installed version is 2.8.3, and a previous upgrade has not been installed.

1. Close Quest Lite before attempting the installation.
2. Using the project CD, double-click on the “Upgrade Only” option provided on the Start page.
3. When prompted for a password, enter “ridot”.
4. Follow the instructions provided in the installation wizard to complete the installation.
5. When executing Quest Lite for the first time after installing the upgrade, users may be prompted to enter their company bidder codes.

Installation Instructions – Complete Installation

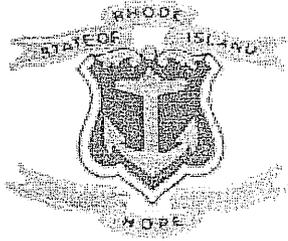
A complete Installation of the software is required only if Quest Lite is:

1. Not installed on the computer/laptop; or
2. The installed version of Quest Lite is older than 2.8.3, i.e. 2.8.2 or under; or
3. The 2.8.3 upgrade version of Quest Lite is installed.

If any of 1 through 3 above apply, follow these instructions:

1. If a Quest Lite version 2.8.2 or older, or a 2.8.3 upgrade are currently installed,
 - a. Close Quest Lite.
 - b. Remove all the existing installation(s) of Quest Lite. To accomplish this, follow the instructions provided on pages 19 – 25 of the Quest Lite User Manual provided with this project CD. Follow the installation removal directions for the operating system in use on the machine.
2. Using the project CD, double-click on the “Complete Installation” option provided on the Start page.
3. When prompted for a password, enter “ridot”.
4. Follow the instructions provided in the installation wizard to complete the installation.
5. When executing Quest Lite for the first time after completing the installation, the user will be prompted to enter the company bidder codes provided by the Department. Once this information is entered, the installation process will be complete.

For technical assistance, contact the Contracts & Specifications office at 222-2495.



Rhode Island Department of Transportation
Bid Submission Summary for
Highway and Bridge Construction

For Bid Proposals Exceeding \$1,000,000.00
Effective January 1, 2011

DOT SUBMITTED BID PACKAGE MUST INCLUDE:

- Hard copy bid including signed RIVIP cover form, proposal form, certifications, surety.
- CD Containing QUEST LITE bid (ZIP file).
- "Public Copy" CD* in PDF format (Adobe Acrobat) should conform with RIGL 37-2-18 and Division of Purchases "Notice to Contractors and Vendors Bidding on Public Works Projects". For specific instructions, refer to www.purchasing.ri.gov.

*3-1/2" floppy disks or other media are not acceptable.

Please note that the Public Copy and the Quest Lite bid must be on separate CDs. Therefore two (2) CDs must be included with your bid submission.



State of Rhode Island Department of Administration
Division of Purchases

NOTICE TO CONTRACTORS
AND VENDORS BIDDING
ON PUBLIC WORKS PROJECTS

Effective **January 1, 2011** all Public Works related project proposals exceeding one million (\$1,000,000) dollars are required to include a "public copy". All agency contract solicitations, requests for proposals, invitations for bids, etc. shall state that any bid or proposal that exceeds one million (\$1,000,000) dollars must include a copy to be available for public inspection upon the opening of the bids. Any bid or proposal in excess of one million (\$1,000,000) dollars which does not include a copy for public inspection shall be deemed to be non-responsive. For further information, please see R.I. Gen. Laws Section 37-2-18 (P.L. 221) <http://www.rilin.state.ri.us/PublicLaws/law10/law10221.htm> and Purchasing Rules & Regulations amendment at www.purchasing.ri.gov. Proposed regulations will become final on January 11, 2011. This regulation applies to all public works projects (vertical and horizontal) exceeding \$1 million dollars and any combination of base bid plus all alternates.

In accordance to Purchasing Rules and Regulations adopted on January 11, 2011 the following conditions are required:

- 1 All bid proposals shall be opened publicly and read aloud.
2. Each bid, together with the name of the bidder, shall be recorded and an abstract made available "immediately" for public inspection.
- 3 Copy of the redacted bid proposal shall be available for public inspection by the close of the business the day the subject bid(s) and/or contract(s) is opened by the Division of Purchases
4. The burden to identify and withhold from the public copy that is released at the bid opening any trade secrets, commercial or financial information, or other information the bidder deems not subject to public disclosure pursuant to Chapter 38-2, the Access to Public Records Act, shall rest solely and exclusively with the bidder submitting the bid proposal.

5. At the time that a proposal is submitted, a bidder must submit a redacted copy of the bid proposal in a PDF (Portable Document File) file format on a read only CD-R Media Disk (hereinafter referred to as a "CD"). Vendors are required to provide all documents submitted in response to the bid solicitation on the CD
 - a. The acceptable media is a CD-R. Media that is read/writable (CD RW) will not be accepted.
 - b. Only readable, not writeable media is acceptable
 - c. Vendor is responsible for supplying their own CD-R media
 - d. Vendor is responsible for the integrity of the CD.

6. Failure of the bidder to submit a public copy on a readable CD, as required by RIGL 37-2-18 as amended, shall result in the disqualification of said bid.

7. **CD must be enclosed in a protective cover and the protective cover clearly labeled with the following:**
 - a. **Marked "Public Copy"**
 - b. **Title of Solicitation as it appears on the RIVIP cover letter.**
 - c. **Name of Company and Vendor ID as it appears on the RIVIP cover letter.**
 - d. **Bid Response Number as it appears on the RIVIP cover letter.**
 - e. **Date of Bid as it appears on the RIVIP cover letter.**

8. **Bid response on CD-R to be in a PDF (Portable Document Format).**
 - a. **One PDF file will be on the CD-R. File to meet the following requirements:**
 - i. **Only one file will contain all documents in response to the bid. If you have more than one document for the response, the documents must be concatenated or merged into one PDF document. Failure to submit only one PDF file may result in disqualification of bid.**
 - ii. **File should be named in the following manner:**
 1. **BidNumber_DateofBid_VendorName_VendorID.pdf. Where:**
 1. **Bid Number is the bid number for which the response is for as it appears on the RIVIP cover sheet.**
 2. **Dateofbid is date of bid using the format (mm-dd-yyyy).**
 3. **VendorName is the name of the vendor as one word – no spaces or punctuation.**
 4. **Vendor ID as it appears on the RIVIP vendor cover sheet.**

Note: you must use underscores in separating the fields. Do not use underscores anywhere else in the filename other than to separate the fields.

Example: 1234567_06-01-2011_Vendor1_9876.pdf

9 Purchasing staff will officially conclude the bid opening and all loaded proposals will be posted to the Purchasing web site. All proposals will be available immediately after bid opening www.purchasing.ri.gov.

For technical assistance, contact the Division of Purchases office at 574-8100.