



STATE OF MAINE
DEPARTMENT OF TRANSPORTATION
16 STATE HOUSE STATION
AUGUSTA, MAINE 04333-0016

Paul R. LePage
GOVERNOR

March 31, 2011
Subject: **Fort Kent Area MST**
State PIN: 018080.00
Amendment No. 2

David Bernhardt
COMMISSIONER

Dear Sir/Ms:

In the Bid Book (page 1) "NOTICE TO CONTRACTORS" **CHANGE** the basis of award to read as follows; "**The basis of award will be the total of section 1, section 2 and section 3, however only section 1 and section 3 will be awarded.**" Make this change in pen and ink.

In the Bid Book (pages 5 thru 12) **REMOVE** the "CONTRACT AGREEMENT, OFFER & AWARD" (2 copies 8 pages total) and **REPLACE** with the attached new "CONTRACT AGREEMENT, OFFER & AWARD" (2 copies x pages total)

In the Bid Book (page 4) **REMOVE** the "SCHEDULE OF ITEMS" 1 page dated 110301 and **REPLACE** with the attached new "SCHEDULE OF ITEMS" 2 pages dated 110329.

In the Bid Book after page 24 **ADD** the attached Saint John River Bridge #3090 Location Map.

In the Bid Book before page 25 **ADD** the attached Saint John River Bridge "TYPICAL SECTION" 1 page.

In the Bid Book, **REMOVE** page 27 "MAINTENANCE SURFACE TREATMENT, COST COMPUTATION CHART, 1 page and **REPLACE** with the attached new "MAINTENANCE SURFACE TREATMENT, COST COMPUTATION CHART, 1 page.

In the Bid Book after page 27 **ADD** the attached "SPECIAL PROVISION, SECTION 105, GENERAL SCOPE OF WORK" 1 page dated March 21, 2011.

In the Bid Book after page 29 **ADD** the attached "SPECIAL PROVISION, SECTION 107 SCHEDULING OF WORK" 1 page dated March 21, 2011.

In the Bid Book after page 57 **ADD** the attached "SPECIAL PROVISION, DIVISION 400, HOT MIX ASPHALT PAVEMENT" 3 pages dated March 25, 2011.



PRINTED ON RECYCLED PAPER

In the Bid Book after page 65 **ADD** the attached "SPECIAL PROVISION, SECTION 403, HOT MIX ASPHALT" 1 page dated March 29, 2011.

In the Bid Book before page 66 **ADD** the attached "SPECIAL PROVISION, SECTION 652, MAINTENANCE OF TRAFFIC" 1 page dated February 4, 2011.

The following question has been received:

Question: The cost computation chart appears to have a conflict with the formatting and does not provide enough space to enter the Total Section Haul Cost in the last column. Could this be corrected?

Response: Please see the attached new Cost Computation Chart.

Consider these changes and information prior to submitting your bid on April 6, 2011.

Sincerely,



Scott Bickford

Contracts & Specifications Engineer

For

CONTRACT AGREEMENT, OFFER & AWARD

AGREEMENT made on the date last signed below, by and between the State of Maine, acting through and by its Department of Transportation (Department), an agency of state government with its principal administrative offices located at Child Street, Augusta, Maine, with a mailing address at 16 State House Station, Augusta, Maine 04333-0016, and

_____ a corporation or other legal entity organized under the laws of the State of _____, with its principal place of business located at _____

The Department and the Contractor, in consideration of the mutual promises set forth in this Agreement (the "Contract"), hereby agree as follows:

A. **The Work.**

The Contractor agrees to complete all Work as specified or indicated in the Contract including Extra Work in conformity with the Contract, PIN No. **018080.00 and 018080.10**, for the **Maintenance Surface Treatment Paving** and the **St. John River Bridge Wearing Course Replacement** in the towns of **Frenchville, Saint Agatha, Allagash, Wallagrass, Fort Kent, Madawaska, Cross Lake Twp, New Canada, Saint John Plt & Saint Francis**, County of **Aroostook**, Maine. The Work includes construction, maintenance during construction, warranty as provided in the Contract, and other incidental work.

The Contractor shall be responsible for furnishing all supervision, labor, equipment, tools supplies, permanent materials and temporary materials required to perform the Work including construction quality control including inspection, testing and documentation, all required documentation at the conclusion of the project, warranting its work and performing all other work indicated in the Contract.

The Department shall have the right to alter the nature and extent of the Work as provided in the Contract; payment to be made as provided in the same.

B. **Time.**

The Contractor agrees to complete all Work, except warranty work, on or before **July 29, 2011**. Further, the Department may deduct from moneys otherwise due the Contractor, not as a penalty, but as Liquidated Damages in accordance with Sections 107.7 and 107.8 of the State of Maine Department of Transportation Standard Specifications, Revision of December 2002 and related Special Provisions.

C. Price.

The quantities given in the Schedule of Items of the Bid Package will be used as the basis for determining the original Contract amount and for determining the amounts of the required Performance Surety Bond and Payment Surety Bond, and that the amount of this offer is

Section 0001 \$ _____

Section 0002 \$ _____

Section 0003 \$ _____

Performance Bond and Payment Bond each being 100% of the amount awarded under this Contract (see award amount in Section G below).

D. Contract.

This Contract, which may be amended, modified, or supplemented in writing only, consists of the Contract documents as defined in the Plans, Standard Specifications, Revision of December 2002, Standard Details Revision of December 2002 as updated through advertisement, Supplemental Specifications, Special Provisions, Contract Agreement; and Contract Bonds. It is agreed and understood that this Contract will be governed by the documents listed above.

E. Certifications.

By signing below, the Contractor hereby certifies that to the best of the Contractor's knowledge and belief:

1. All of the statements, representations, covenants, and/or certifications required or set forth in the Bid and the Bid Documents, including those in the Contract are still complete and accurate as of the date of this Agreement.
2. The Contractor knows of no legal, contractual, or financial impediment to entering into this Contract.
3. The person signing below is legally authorized by the Contractor to sign this Contract on behalf of the Contractor and to legally bind the Contractor to the terms of the Contract.

F. Offer.

The undersigned, having carefully examined the site of work, the Plans, Standard Specifications Revision of December 2002, Standard Details Revision of December 2002 as updated through advertisement, Supplemental Specifications, Special Provisions, Contract Agreement; and Contract Bonds contained herein for construction of: **PIN No. 018080.00, for the Maintenance Surface Treatment Paving in the towns of , Frenchville, Saint Agatha, Allagash, Wallagrass, Fort Kent, Madawaska, Cross Lake Twp, New Canada, Saint John Plt & Saint Francis and PIN No. 018080.10 for the Wearing Course Replacement on the St. Jon River Bridge in the town of Allagash,** State of Maine, on which bids will be received until the time specified in the “Notice to Contractors” do(es) hereby bid and offer to enter into this contract to supply all the materials, tools, equipment and labor to construct the whole of the Work in strict accordance with the terms and conditions of this Contract at the unit prices in the attached “Schedule of Items”.

The Offeror agrees to perform the work required at the price specified above and in accordance with the bids provided in the attached “Schedule of Items” in strict accordance with the terms of this solicitation, and to provide the appropriate insurance and bonds if this offer is accepted by the Government in writing.

As Offeror also agrees:

First: To do any extra work, not covered by the attached “Schedule of Items”, which may be ordered by the Resident, and to accept as full compensation the amount determined upon a “Force Account” basis as provided in the Standard Specifications, Revision of December 2002, and as addressed in the contract documents.

Second: That the bid bond at 5% of the bid amount or the official bank check, cashier’s check, certificate of deposit or U. S. Postal Money Order in the amount given in the “Notice to Contractors”, payable to the Treasurer of the State of Maine and accompanying this bid, shall be forfeited, as liquidated damages, if in case this bid is accepted, and the undersigned shall fail to abide by the terms and conditions of the offer and fail to furnish satisfactory insurance and Contract bonds under the conditions stipulated in the Specifications within 15 days of notice of intent to award the contract.

Third: To begin the Work as stated in Section 107.2 of the Standard Specifications Revision of December 2002 and complete the Work within the time limits given in the Special Provisions of this Contract.

Fourth: That this offer shall remain open for 30 calendar days after the date of opening of bids.

Fifth: The Bidder hereby certifies, to the best of its knowledge and belief that: the Bidder has not, either directly or indirectly, entered into any agreement, participated in any collusion, or otherwise taken any action in restraint of competitive bidding in connection with its bid, and its subsequent contract with the Department.

IN WITNESS WHEREOF, the Contractor, for itself, its successors and assigns, hereby execute two duplicate originals of this Agreement and thereby binds itself to all covenants, terms, and obligations contained in the Contract Documents.

CONTRACTOR

Date

(Signature of Legally Authorized Representative
of the Contractor)

Witness

(Name and Title Printed)

G. Award.

Your offer is hereby accepted for (see checked boxes):

- Section 0001
- Section 0002
- Section 0003

Contract Amount: _____

This award consummates the Contract, and the documents referenced herein.

MAINE DEPARTMENT OF TRANSPORTATION

Date

By: David Bernhardt, Commissioner

Witness

CONTRACT AGREEMENT, OFFER & AWARD

AGREEMENT made on the date last signed below, by and between the State of Maine, acting through and by its Department of Transportation (Department), an agency of state government with its principal administrative offices located at Child Street, Augusta, Maine, with a mailing address at 16 State House Station, Augusta, Maine 04333-0016, and

_____ a corporation or other legal entity organized under the laws of the State of _____, with its principal place of business located at _____

The Department and the Contractor, in consideration of the mutual promises set forth in this Agreement (the "Contract"), hereby agree as follows:

A. **The Work.**

The Contractor agrees to complete all Work as specified or indicated in the Contract including Extra Work in conformity with the Contract, PIN No. **018080.00 and 018080.10**, for the **Maintenance Surface Treatment Paving** and the **St. John River Bridge Wearing Course Replacement** in the towns of **Frenchville, Saint Agatha, Allagash, Wallagrass, Fort Kent, Madawaska, Cross Lake Twp, New Canada, Saint John Plt & Saint Francis**, County of **Aroostook**, Maine. The Work includes construction, maintenance during construction, warranty as provided in the Contract, and other incidental work.

The Contractor shall be responsible for furnishing all supervision, labor, equipment, tools supplies, permanent materials and temporary materials required to perform the Work including construction quality control including inspection, testing and documentation, all required documentation at the conclusion of the project, warranting its work and performing all other work indicated in the Contract.

The Department shall have the right to alter the nature and extent of the Work as provided in the Contract; payment to be made as provided in the same.

B. **Time.**

The Contractor agrees to complete all Work, except warranty work, on or before **July 29, 2011**. Further, the Department may deduct from moneys otherwise due the Contractor, not as a penalty, but as Liquidated Damages in accordance with Sections 107.7 and 107.8 of the State of Maine Department of Transportation Standard Specifications, Revision of December 2002 and related Special Provisions.

C. Price.

The quantities given in the Schedule of Items of the Bid Package will be used as the basis for determining the original Contract amount and for determining the amounts of the required Performance Surety Bond and Payment Surety Bond, and that the amount of this offer is

Section 0001 \$ _____

Section 0002 \$ _____

Section 0003 \$ _____

Performance Bond and Payment Bond each being 100% of the amount awarded under this Contract (see award amount in Section G below).

D. Contract.

This Contract, which may be amended, modified, or supplemented in writing only, consists of the Contract documents as defined in the Plans, Standard Specifications, Revision of December 2002, Standard Details Revision of December 2002 as updated through advertisement, Supplemental Specifications, Special Provisions, Contract Agreement; and Contract Bonds. It is agreed and understood that this Contract will be governed by the documents listed above.

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By signing below, the Contractor hereby certifies that to the best of the Contractor's knowledge and belief:

1. All of the statements, representations, covenants, and/or certifications required or set forth in the Bid and the Bid Documents, including those in the Contract are still complete and accurate as of the date of this Agreement.
2. The Contractor knows of no legal, contractual, or financial impediment to entering into this Contract.
3. The person signing below is legally authorized by the Contractor to sign this Contract on behalf of the Contractor and to legally bind the Contractor to the terms of the Contract.

F. Offer.

The undersigned, having carefully examined the site of work, the Plans, Standard Specifications Revision of December 2002, Standard Details Revision of December 2002 as updated through advertisement, Supplemental Specifications, Special Provisions, Contract Agreement; and Contract Bonds contained herein for construction of: **PIN No. 018080.00, for the Maintenance Surface Treatment Paving in the towns of , Frenchville, Saint Agatha, Allagash, Wallagrass, Fort Kent, Madawaska, Cross Lake Twp, New Canada, Saint John Plt & Saint Francis and PIN No. 018080.10 for the Wearing Course Replacement on the St. Jon River Bridge in the town of Allagash,** State of Maine, on which bids will be received until the time specified in the “Notice to Contractors” do(es) hereby bid and offer to enter into this contract to supply all the materials, tools, equipment and labor to construct the whole of the Work in strict accordance with the terms and conditions of this Contract at the unit prices in the attached “Schedule of Items”.

The Offeror agrees to perform the work required at the price specified above and in accordance with the bids provided in the attached “Schedule of Items” in strict accordance with the terms of this solicitation, and to provide the appropriate insurance and bonds if this offer is accepted by the Government in writing.

As Offeror also agrees:

First: To do any extra work, not covered by the attached “Schedule of Items”, which may be ordered by the Resident, and to accept as full compensation the amount determined upon a “Force Account” basis as provided in the Standard Specifications, Revision of December 2002, and as addressed in the contract documents.

Second: That the bid bond at 5% of the bid amount or the official bank check, cashier’s check, certificate of deposit or U. S. Postal Money Order in the amount given in the “Notice to Contractors”, payable to the Treasurer of the State of Maine and accompanying this bid, shall be forfeited, as liquidated damages, if in case this bid is accepted, and the undersigned shall fail to abide by the terms and conditions of the offer and fail to furnish satisfactory insurance and Contract bonds under the conditions stipulated in the Specifications within 15 days of notice of intent to award the contract.

Third: To begin the Work as stated in Section 107.2 of the Standard Specifications Revision of December 2002 and complete the Work within the time limits given in the Special Provisions of this Contract.

Fourth: That this offer shall remain open for 30 calendar days after the date of opening of bids.

Fifth: The Bidder hereby certifies, to the best of its knowledge and belief that: the Bidder has not, either directly or indirectly, entered into any agreement, participated in any collusion, or otherwise taken any action in restraint of competitive bidding in connection with its bid, and its subsequent contract with the Department.

IN WITNESS WHEREOF, the Contractor, for itself, its successors and assigns, hereby execute two duplicate originals of this Agreement and thereby binds itself to all covenants, terms, and obligations contained in the Contract Documents.

CONTRACTOR

Date

(Signature of Legally Authorized Representative
of the Contractor)

Witness

(Name and Title Printed)

G. Award.

Your offer is hereby accepted for (see checked boxes):

Section 0001

Section 0002

Section 0003

Contract Amount: _____

This award consummates the Contract, and the documents referenced herein.

MAINE DEPARTMENT OF TRANSPORTATION

Date

By: David Bernhardt, Commissioner

Witness

SCHEDULE OF ITEMS

REVISED:

CONTRACT ID: 018080.00

PROJECT(S): 018080.00
018080.10

CONTRACTOR : _____

LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE		BID AMOUNT	
			DOLLARS	CTS	DOLLARS	CTS

SECTION 0001 HIGHWAY ITEMS

0010	202.203 PAVEMENT BUTT JOINTS	400.000 SY				
0020	461.13 MAINTENANCE SURFACE MIXTURE	32875.000 T				
SECTION 0001 TOTAL						.

SECTION 0002 STATE TRUCKING

0100	631.1752 STATE TRUCKING	LUMP	LUMP			
SECTION 0002 TOTAL						.

SECTION 0003 BRIDGE ITEMS

0030	202.30 REMOVING EXISTING CONCRETE WEARING SURFACE	LUMP	LUMP			
0040	403.2101 9.5 MM POLYMER MODIFIED HMA	300.000 T				
0050	508.14 HIGH PERFORMANCE WATERPROOFING MEMBRANE	LUMP	LUMP			

SCHEDULE OF ITEMS

REVISED:

CONTRACT ID: 018080.00

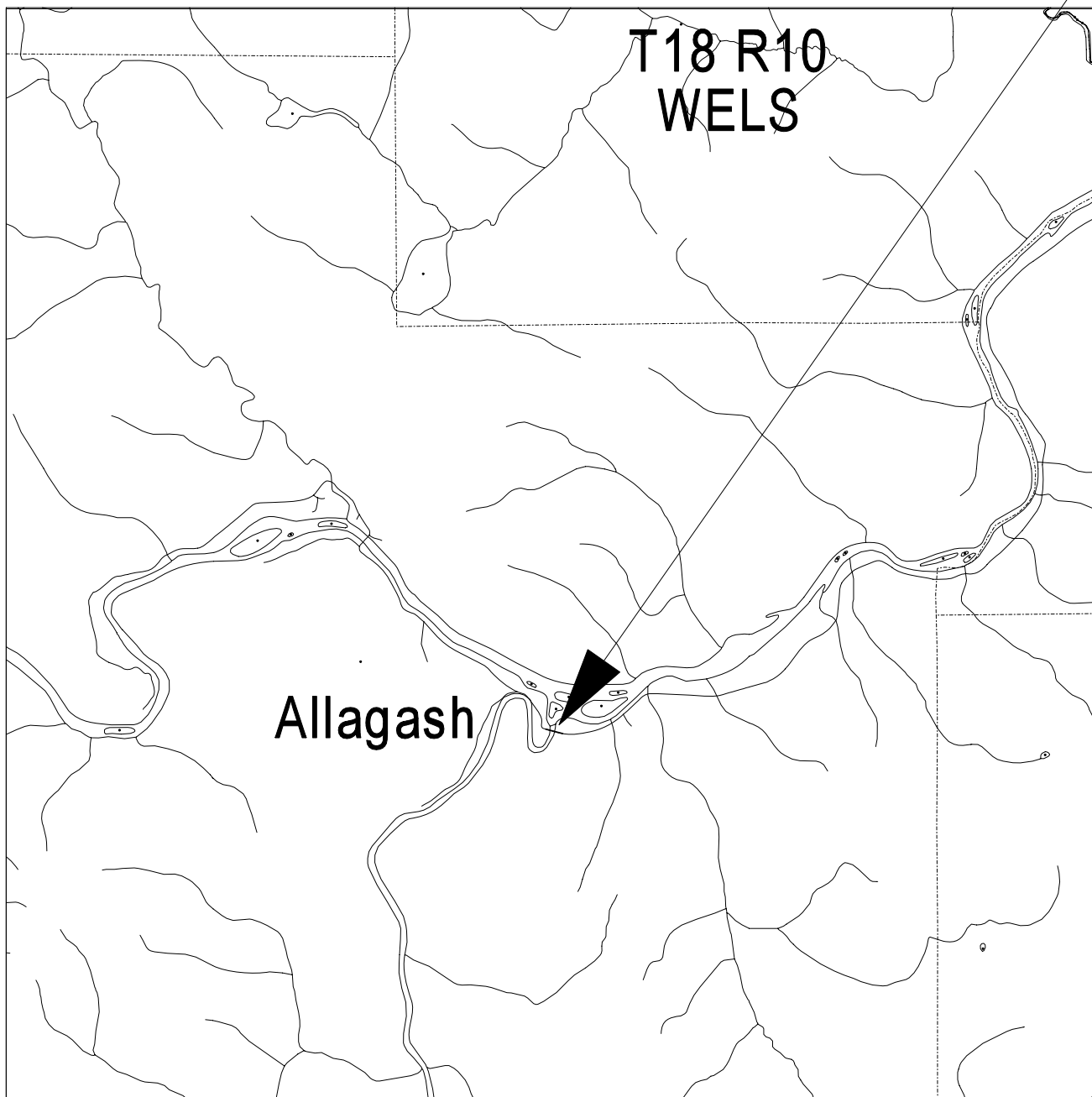
PROJECT(S): 018080.00

018080.10

CONTRACTOR : _____

LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE		BID AMOUNT	
			DOLLARS	CTS	DOLLARS	CTS
0060	652.34 CONE	100.000 EA				
0070	652.35 CONSTRUCTION SIGNS	220.000 SF				
0080	652.36 MAINTENANCE OF TRAFFIC CONTROL DEVICES	28.000 CD				
0090	652.38 FLAGGER	400.000 HR				
	SECTION 0003 TOTAL					
	TOTAL BID					

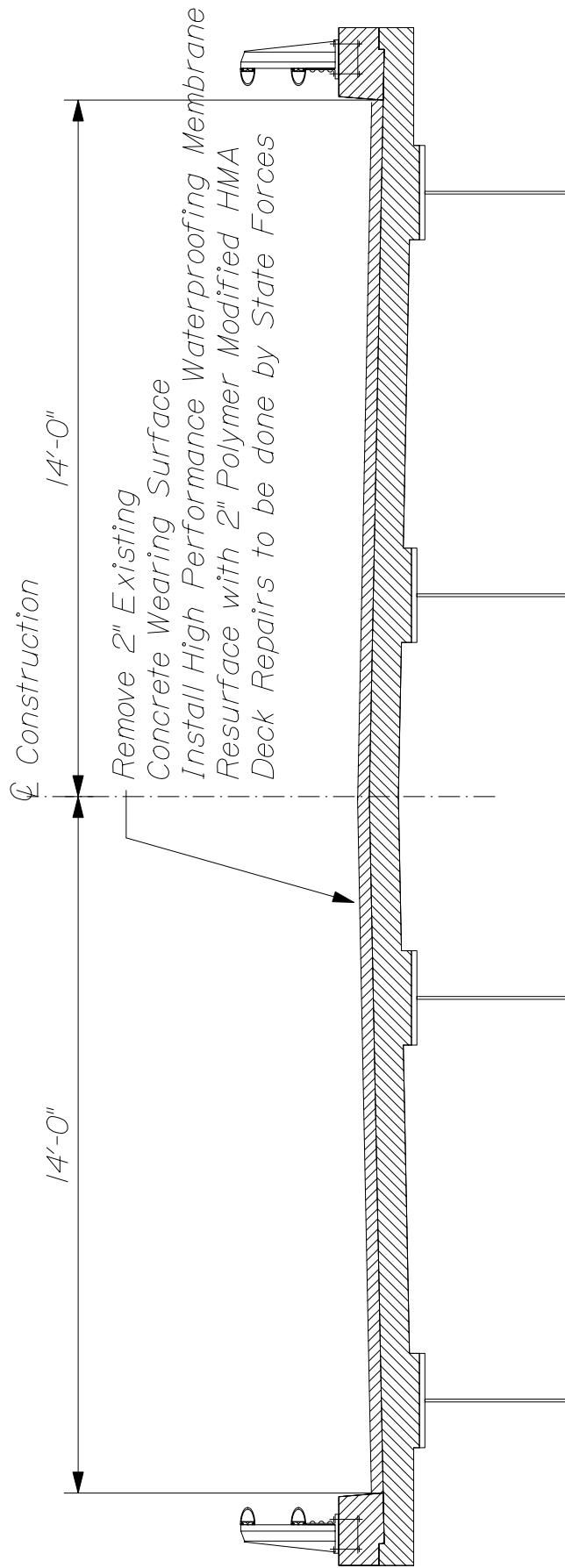
SAINT JOHN RIVER BRIDGE # 3909



LOCATION MAP



Scale in Miles



TRANSVERSE SECTION

STATE OF MAINE DEPARTMENT OF TRANSPORTATION	SAINT JOHN RIVER BRIDGE SAINT JOHN RIVER ALLAGASH AROOSTOOK COUNTY	SHEET NUMBER 1
18080.10 BRIDGE NO. 3909	TYPICAL SECTION	OF 1

Region 5

**MAINTENANCE SURFACE TREATMENT
18080.00 Fort Kent**

**COST COMPUTATION CHART
(to be filled out by Bidder)**

Note: Show pit location in red, on map.

MST	MAP ID	First Town	Route	Pit Location		Haul Distance (in miles)	X	\$0.46 / mile	=	Unit Haul Cost	X	Est. MST Ton	=	Total Section Haul Cost
				A-B-C										
MST	1	St John PLt	161				X	\$0.46 / mile	=		X	10,635	=	\$
MST	2	T17 R5 WELS	161				X	\$0.46 / mile	=		X	2,775	=	\$
MST	3	Fort Kent	161				X	\$0.46 / mile	=		X	2,000	=	\$
MST	4	Frenchville	1				X	\$0.46 / mile	=		X	2,930	=	\$
MST	5	Allagash	Frank Mack Road				X	\$0.46 / mile	=		X	1,550	=	\$
MST	6	T17 R5 WELS	Ouellette Rd.				X	\$0.46 / mile	=		X	1,095	=	\$
MST	7	Wallagrass	Strip Rd				X	\$0.46 / mile	=		X	2,680	=	\$
MST	8	Saint Agatha	Brise Culotte Rd.				X	\$0.46 / mile	=		X	1,950	=	\$
MST	9	Frenchville	Airport Rd.				X	\$0.46 / mile	=		X	1,030	=	\$
MST	10	Saint Agatha	Cleveland/Beaulieu Rd.				X	\$0.46 / mile	=		X	4,430	=	\$
MST	11	Madawaska	Lake Shore				X	\$0.46 / mile	=		X	1,800	=	\$

NOTE: \$ _____
Total Area Haul Cost

Total area haul cost must be entered into the schedule of items in Section 0002 under item 631.1752

SPECIAL PROVISION
SECTION 105
GENERAL SCOPE OF WORK
(LIMITATIONS OF OPERATIONS)

1. A 48 hour notice is required for paving operations according to the Department's Standard Specification section 105.3.1.
2. The Contractor will complete all operations between June 14, 2011 and July 29, 2011.
3. The Contractor shall suspend work on the structure for two weeks after removing the existing wearing course. MaineDOT Bridge Maintenance will make all repairs to the exposed concrete surfaces during this work suspension.
4. The Contractor will be responsible to install 20 foot temporary ramps at each end of the structure after removing the existing concrete wearing course. MaineDOT Bridge Maintenance will remove and reinstall temporary ramps as needed to make all repairs to the exposed concrete surface. The Contractor will be responsible to remove any temporary ramps prior to the deck preparation and installation of the membrane. This shall be incidental to item 202.202 Removing Pavement Surface.
5. The Contractor shall prepare and submit a schedule of work indicating the dates of planned work, and how the pavement removal, suspension time frame, membrane and paving operations will be coordinated with Project # 18080.00 MST paving operations.

SPECIAL PROVISION
SECTION 107
SECHEDULING OF WORK

107.4.2 Schedule of Work Required

1. The Contractor will be allowed to commence work on this contract no sooner than June 14, 2011. The completion date for this contract is July 29, 2011.
2. The Contractor shall prepare and submit a schedule of work, not to include authorized periods of Suspension.
3. No paving will be allowed on Saturdays and work must cease at noon on Friday, July 1, 2011. Work may commence on July 5, 2011.
4. The schedule of work shall adhere to all the following requirements:
 - a.) Within each work period, the Contractor shall work a minimum of 14 consecutive calendar days before suspending work.
 - b.) Each suspension of work shall last a minimum of 7 calendar days.
 - c.) The Contractor shall provide a minimum of a 3 working day notice to commencing or suspending work.
 - d.) The original schedule may be revised with approval from the Department as long as the above criteria are met.
5. Liquidated damages will be charged at the rate stated in the Supplemental Specifications section 107.7.2 for each of the following:
 - a.) Each calendar day past completion date.
 - b.) If operations continue beyond noon on Friday, July 1, 2011, the Contractor will be assessed one full day liquidated damages. In addition, all work accomplished after noon on Friday, July 1, 2011 will not be accepted or measured for payment.
7. This work shall require the Contractor Haul all HMA mixtures.
8. If the contractor cancels work for the following day due to forecasted inclement weather and notifies the MST Manager by 5:00 pm, the contract completion date shall be adjusted to the next workable calendar day.

SPECIAL PROVISION
DIVISION 400
HOT MIX ASPHALT PAVEMENT

401.01 Description This work shall consist of supplying aggregate and Performance Graded Asphalt Binder and producing a 9.5mm Hot Mix Asphalt Mix in accordance with the State of Maine, Department of Transportation, 2010 Special Provision Division 400 – Pavements; Section 401- Hot Mix Asphalt Pavement, for use as directed by the Department. The mixture shall be placed in areas shown with in the contract, or as directed by the Department.

The Department will accept this work under Quality Assurance provisions, in accordance with these specifications and the requirements of Section 106 – Quality, the provisions of AASHTO M 323 except where otherwise noted in sections 401 and 703 of these specifications, and the Maine DOT Policies and Procedures for HMA Sampling and Testing.

All work associated with this Special Provision shall be in accordance with the 2010 Special Provision Division 400 – Pavements, unless otherwise amended under this Special Provision.

MATERIALS

401.03 Composition of Mixtures The composition of mixtures shall conform to the 2010 Special Provision 400 – Hot mix Asphalt Pavements; subsection 401.03 – Composition of Mixtures, with the following requirements:

The contractor shall compose a 9.5mm Job Mix Formula (JMF) that conforms to the gradation requirements of section 703.09 – HMA Mixture Composition, and shall be combined in proportions that result in a composite blend classified as a fine-graded mixture (9.5mm fine). The design traffic level for mix placed shall be 0.3 to <3 million ESALS. The design verification, Quality Control, and Acceptance tests for this mix will be performed at **50 gyrations**.

401.11 Preparation of Existing Surface A tack coat of emulsified asphalt, RS-1 shall be applied to any existing or intermediate layer of pavement or recycled layer at a rate of 0.025 gal/yd² and at a rate of 0.05 gal/yd² on milled pavement prior to placing a new course. A tack coat of emulsified asphalt shall be applied between shim layers and subsequent layers at a rate not to exceed 0.025 gal/yd². When the surface of the existing base or pavement is irregular, the Contractor shall bring it to uniform grade and cross section as directed. All vertical surfaces shall have a tack coat applied prior to placing any new HMA course. Tack coat shall conform to the requirements of Section 409 – Bituminous Tack Coat, Section 702 – Bituminous Material, and all applicable sections of the contract.

401.18 Quality Control Method D This section shall conform to the 2010 Special Provision 400 – Hot mix Asphalt Pavements; subsection 401.18 Quality Control Method D with the following revisions:

The Contractor shall perform Method D quality control testing for gradation and asphalt content at a rate of one test per 250 ton and at least one per day. The contractor will submit the test results to the onsite Department representative by 1:00 pm the next working day.

The Contractor shall sample, test, and evaluate Hot Mix Asphalt Pavement in accordance with the following minimum frequencies:

MINIMUM QUALITY CONTROL FREQUENCIES

Test or Action	Frequency	Test Method
Temperature of mix	6 per day at street and plant	-
Temperature of mat	4 per day	-
% TMD (Surface) (As identified in Contract)	NA	ASTM D2950
% TMD (Base) (As identified in Contract)	NA	AASHTO T269
Fines / Effective Binder	N/A	AASHTO T 312
Gradation	1 per 250 ton	AASHTO T30
PGAB content	1 per 250 ton	AASHTO T164 or T308
Rice Specific Gravity	NA	AASHTO T209 *
Coarse Aggregate Angularity	NA	ASTM D5821
Flat and Elongated Particles	NA	ASTM D4791
Fine Aggregate Angularity	NA	AASHTO T304

* Only when densities are required in the contract.

401.204 Acceptance Method D This section shall conform to the 2010 Special Provision 400 – Hot mix Asphalt Pavement testing for Method D.

The Department will take four (4) full sample boxes randomly within each sub-lot.

CONSTRUCTION REQUIREMENTS

Traffic Control. The State will provide all necessary traffic control milling and paving operations.

Hauling. The Contractor will haul all mixtures, unless otherwise stipulated in the contract, or directed by the Department.

Pre-Pave Conference. The MaineDOT and Contractor shall hold a prepave conference prior to placing any Hot Mix Asphalt to discuss specifics related to the sections of highway being paved under the contract. Specifics discussed shall include, but are not limited to; schedule for each section, Hot Mix Asphalt plants and JMFs to be used, and testing requirements. Production rates (tons per hour) and the number of trucks to be supplied for each location will be discussed and an agreement will be made regarding both issues. Meeting minutes shall be recorded and distributed by the Region MST manager.

Placing Operations. The Contractor shall be responsible for the actual placing and rolling operations. Placing operations shall conform to acceptable paving practices. Mixtures produced under this contract shall be placed on the roadway with a highway class paver equipped with a power adjustable 10' main screed, with power extendible, activated, and heated screed extensions designed for highway paving. Immediately after the material is spread it shall be rolled and compacted by two or more 7 - 10 ton steel 2-axle wheel (one being oscillatory) rollers and one rubber tired roller (minimum 10 ton). Rollers shall conform to standard specification 401.10 except as noted in this special Provision. On sections of highway with minimum density requirements, the contractor will determine compaction efforts needed to satisfy the specification.

Trucking and placing operations shall be scheduled to provide continuous placement of the mixture regardless of haul distance. The Contractor shall provide sufficient personnel at the paver to assure placement of the pavement in an orderly, safe, and efficient manner so as to assure a quality mat and proper overall yield.

Method of Measurement. Hot Mix Asphalt, 9.5mm, will be measured by the ton according to delivery slips. Material not placed and compacted satisfactorily due to Contractor's equipment failure will not be measured for payment. The delivery slips shall conform to the requirements of the Standard Highway Specifications, Revision of December 2002. Cover slips will be required to be delivered on the next working day after each paving day. Listed will be the Item number, date, location and quantity.

401.22 Basis of Payment refer to Special Provision Division 400 – Pavements; Section 401.22 Basis of Payment

Such payment shall be full compensation for the following:

1. Obtaining, furnishing and processing all aggregate.
2. Supplying **70-28 PGAB** SBS or SBR Polymer modified bituminous material.
3. Processing, heating, mixing, weighing, placing, and rolling the HMA.
4. Supplying and applying RS-1 emulsified asphalt prior to placing the layer of HMA.
5. Furnishing all labor, equipment, tools and all incidentals necessary to complete the work.
6. Performing quality control testing.

The Department will sample, test, and evaluate Hot Mix Asphalt Pavement in accordance with Section 106 – Quality. The Department will make a pay adjustment for quality as specified in Special Provision Division 400 – Pavements.

Payment will be made under:

<u>Pay Item</u>		<u>Pay Unit</u>
403.2101	Polymer Modified Hot Mix Asphalt, 9.5 mm	Ton

SPECIAL PROVISION
SECTION 403
HOT MIX ASPHALT

Desc. Of Course	Grad Design.	Item Number	Bit Cont. % of Mix	Total Thick	No. Of Layers	Comp. Notes
<u>2" HMA Overlay Areas</u>						
<u>St. John River Bridge Wearing Course</u>						
Wearing	9.5 mm	403.2101	N/A	2"	1	1,2,4,10,11

COMPLEMENTARY NOTES

1. The required PGAB for this mixture will meet a **PG 70-28** to **PG 76-28** grading. The use of Recycled Asphalt Pavement (RAP) will not be permitted in mixtures utilizing modified PGAB's.
2. The density requirements are waived. The use of an oscillating steel roller shall be required to compact all HMA pavements placed on bridge decks in addition to the normal roller train.
4. The design traffic level for mix placed shall be .3 to < 3 million ESALS. The design, verification, Quality Control, and Acceptance tests for this mix will be performed at **50 gyrations**.
10. Section 106.6 Acceptance, (2) Method D.
11. The combined aggregate gradation required for this item shall be classified as a 9.5mm "**fine graded**" mixture (using the Primary Control Sieve control point) as defined in 703.09.

Tack Coat

A tack coat of emulsified asphalt, RS-1, Item #409.15 shall be applied to any existing pavement at a rate of approximately 0.025 G/SY, and on milled pavement approximately 0.05 G/SY, prior to placing a new course. A fog coat of emulsified asphalt shall be applied between shim / intermediate course and the surface course, at a rate not to exceed 0.025 G/SY. Tack used between layers of pavement will be paid for at the contract unit price for Item 409.15 Bituminous Tack Coat.

SPECIAL PROVISION
SECTION 652
MAINTENANCE OF TRAFFIC

018080.10

Approaches Approach signing shall include the following signs as a minimum. Field conditions may warrant the use of additional signs as determined by the Resident.

- Road work Next x Miles
- Road work 500 Feet
- End Road Work

Work Area At each work site, signs and channelizing devices shall be used as directed by the Resident. Signs include:

- Road Work xxxx ¹
- One Lane Road Ahead
- Flagger Sign

Other typical signs include:

- Be Prepared to Stop
- Low Shoulder
- Bump
- Pavement Ends

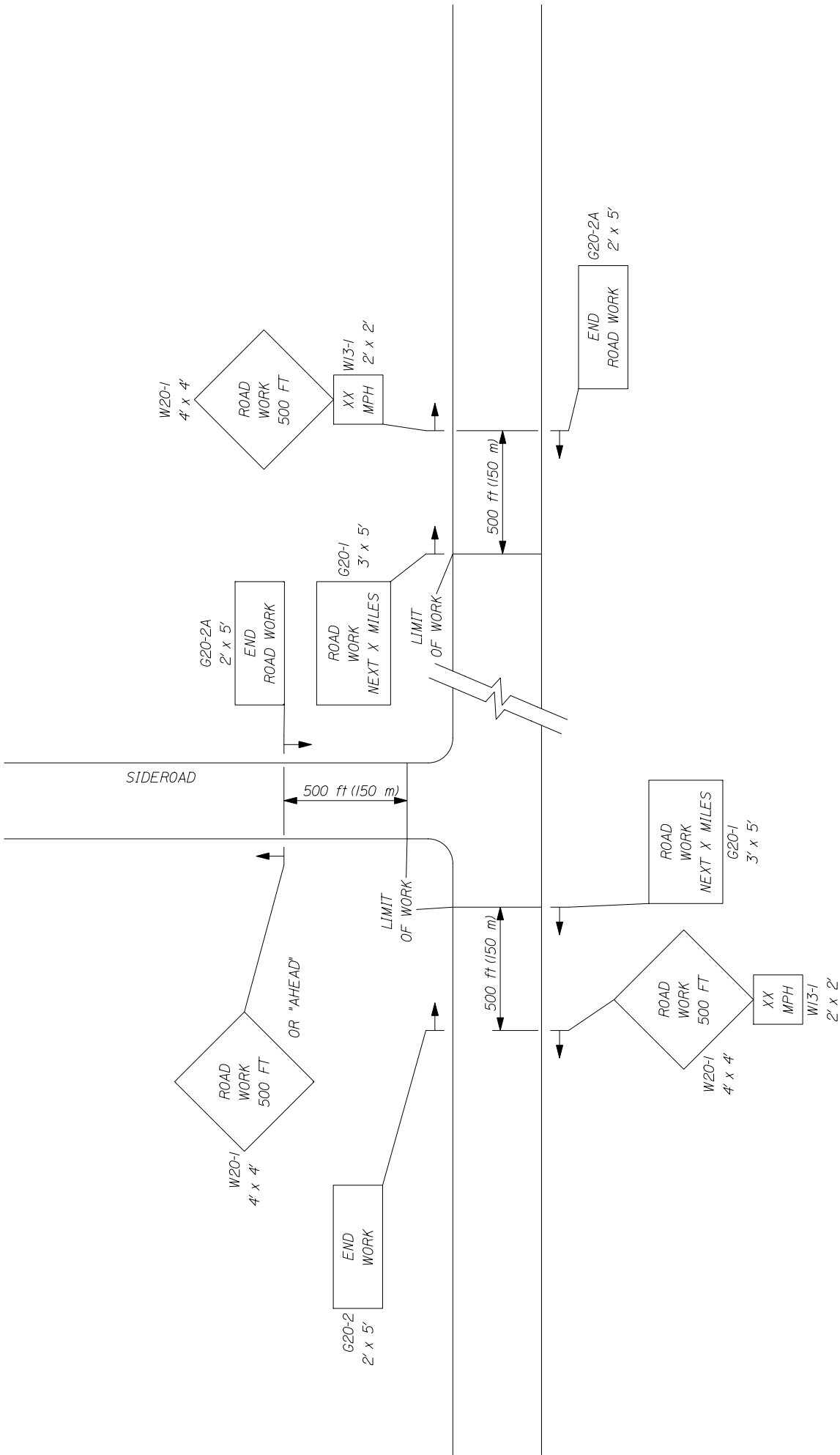
The above lists of Approach signs and Work Area signs are representative of the contract Requirements. Other sign legends may be required.

The Contractor shall conduct their operations in such a manner that the roadway will not be restricted to one lane for more than 800 m [2,500 ft] at each work area. To encourage quality paving in warm-weather conditions, the length can be extended to 4,000 ft depending on the traffic impacts. Where more than one work area restricts traffic to one lane operation, these work areas shall be separated by at least 1.6 km [1 mile] of two way operation.

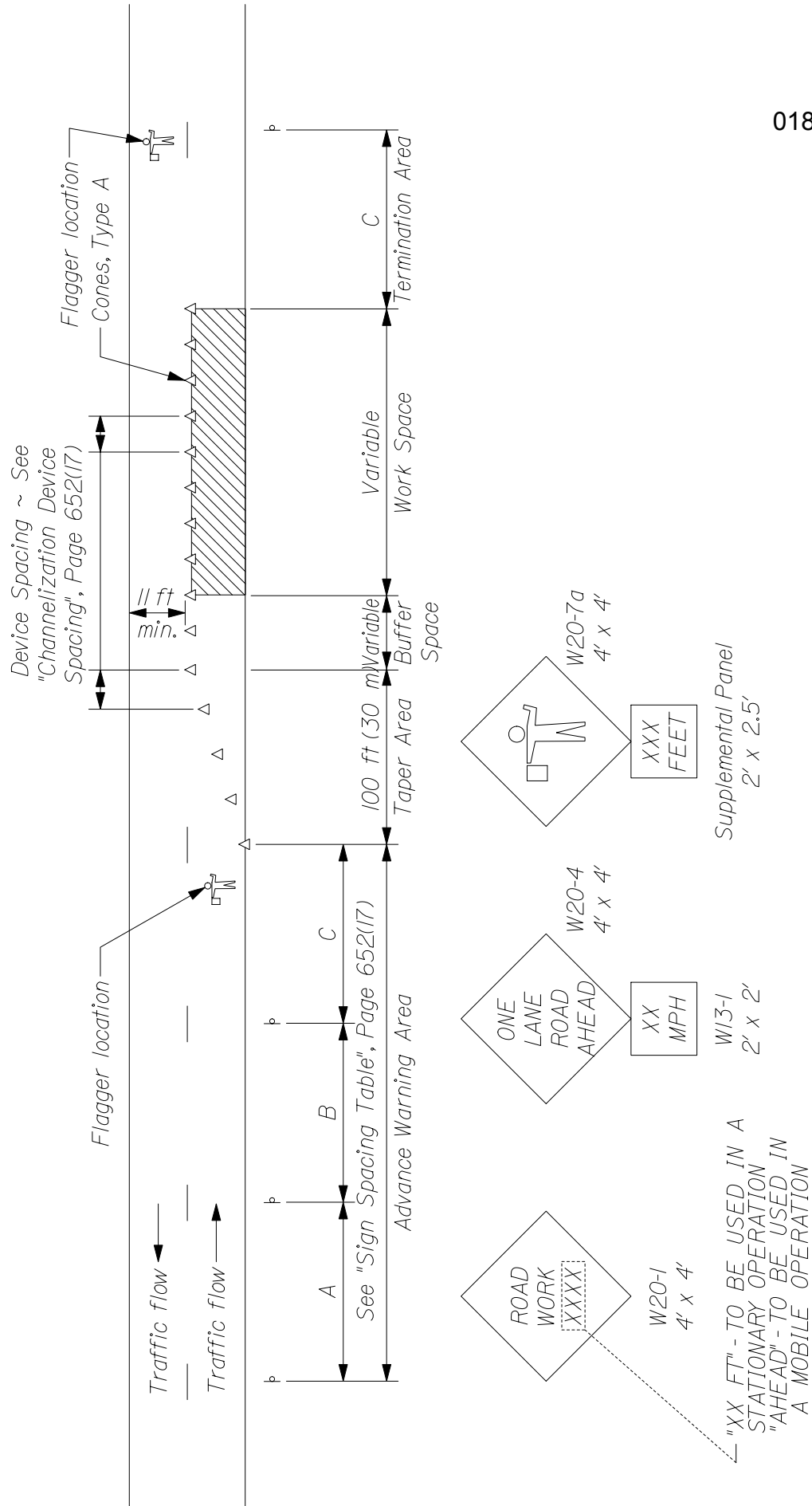
Temporary Centerline A temporary centerline shall be placed each day on all new pavement to be used by traffic. The temporary centerline, when specified of reflectorized traffic paint, shall conform to the standard marking patterns used for permanent markings.

Failure to apply a temporary centerline daily will result in a Traffic Control Violation and suspension of paving operations until temporary markers are applied to all previously placed pavement.

¹ "Road Work Ahead" to be used in mobile operations and "Road Work xx ft" to be used in stationary operations as directed by the Resident.



-- PROJECT APPROACH SIGNING --
TWO WAY TRAFFIC



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TYPICAL APPLICATION: TWO - WAY, TWO LANE ROADWAY,
CLOSING ONE LANE USING FLAGGERS

* Formulas for L are as follows:

For speed limits of 40 mph (60 km/h) or less:

$$L = \frac{WS^2}{60} \quad (L = \frac{WS^2}{155})$$

For speed limits of 45 mph (70 km/h) or greater:

$$L = WS \quad (L = \frac{WS}{1.6})$$

* Formulas for L are as follows:

A minimum of 5 channelization devices shall be used in the taper.

TYPE OF TAPER	TAPER LENGTH (L)*
Merging Taper	at least L
Shifting Taper	at least 0.5L
Shoulder Taper	at least 0.33L
One-Lane, Two-Way Traffic Taper	100 ft (30 m) maximum
Downstream Taper	100 ft (30 m) per lane

CHANNELIZATION DEVICE SPACING

The spacing of channelization devices shall not exceed a distance equal to 1.0 times the speed limit in mph when used for taper channelization, and a distance in feet of 2.0 times the speed limit in mph when used for tangent channelization.

Road Type	SIGN SPACING TABLE		
	Distance Between Signs**		
	A	B	C
Urban 30 mph (50 km/h) or less	100 (30)	100 (30)	100 (30)
Urban 35 mph (55 km/h) and greater	350 (100)	350 (100)	350 (100)
Rural	500 (150)	500 (150)	500 (150)
Expressway / Urban Parkway	2,640 (800)	1,500 (450)	1000 (300)

**Distances are shown in feet (meters).

GENERAL NOTES;

1. Final placement of signs and devices may be changed to fit field conditions as approved by the Resident.

SUGGESTED BUFFER ZONE LENGTHS

Speed (mph)	Length (feet)	Speed (mph)	Length (feet)
20	115	40	325
25	155	45	360
30	200	50	425
35	250	55	495

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