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

Paul R. LePage
GOVERNOR

David Bernhardt
COMMISSIONER

May 4, 2012
Subject: **Kennebunk**
Federal Project No: BR-1707(900)X
State WIN: 017079.00
Amendment No. 1

Dear Sir/Ms:

Make the following change to the Bid Documents:

In the Plans, Sheet Number 44 of 46, "POST-TENTIONING DETAILS" **REPLACE** the "POST-TENTIONING DETAIL" in the upper left hand corner with the attached new "POST-TENTIONING DETAIL".

The following questions have been received:

Question: Who is responsible for the cost associated with having a Line-X Rep onsite? The time frame for him/her to be on site is very vague. Is there a min/max amount of time the Department expects him/her to be on site?

Response: MaineDOT expects a LineX representative (Rep) to be on-site anytime piles are being driven. The cost of the LineX Rep being on-site during the driving of piles was built into the cost of the pile coatings. The LineX repair cost that associated with damage to the coatings will be paid by the contractor.

Question: The post tensioning system that is shown on sheet 44 includes an encapsulated strand system with a wedge plate anchorage at the end. Typically when an encapsulated strand system is used the anchorage is one that is also encapsulated and uses a grease cap system to ensure that the water cannot enter the system from the ends, as per your standard details. We are not aware of a system like that for a 3 strand anchorage. How are the ends of the strands where the encapsulation needs to be stripped off to accommodate the wedge and the elongation due to tensioning intended to be protected from corrosion? Is the system supposed to be grouted? If so, can the encapsulation be eliminated?

Response: The encapsulation detail on our standard details is for one strand system only. Eliminate encapsulation at the ends of the three strand system; Seal the ends of the strands by filling in with Silicone to a depth of 1inch past the strands tips or 1 inch cover and fill the rest of the void with grout. See revised detail in attachment and Maine Department of Transportation Qualified Products List of Joint Sealants.

Question: The post tensioning system that is shown on Sheet 44 includes embedded anchor plate with shear studs. The shear studs are of questionable value in this location and appear to interfere with the void locations and possibly the strand locations. Can the shear studs be eliminated from the anchor plate?

Response: The shear studs will be detailed as straight to eliminate the possibility of interference with either the top or bottom pre-tensioned strands, the possibility of interference with the duct is negligible with a straight stud. See revised detail in attachment.

Question: The post tensioning system that is shown on Sheet 44 indicates a variable depth to the sleeves in each beam. This complicates casting, detailing, erection and post tensioning. It is not industry standard, nor is it a PCI recommended detail, the post tensioning sleeves should be at the center of the beam height at all locations. Can the post tensioning sleeves be installed at the center height of the voided slab system as per Industry Standard?

Response: The post tensioning sleeves can be installed at the center of the voided slabs if interference of the strands with the ducts can be eliminated to limit friction losses, and to eliminate the likelihood of exerting an upward or downward force on the girders when the post tensioning force is applied.

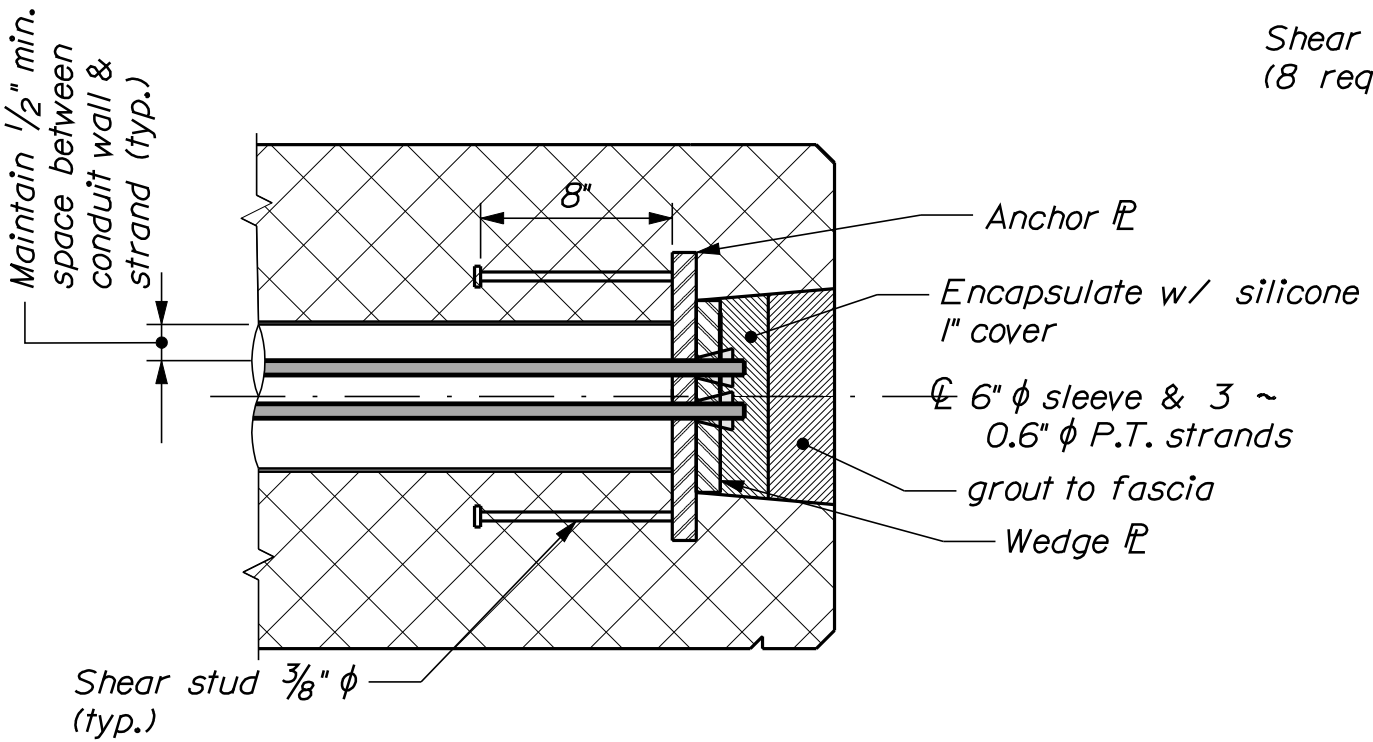
Question: On sheet 37, note number 9 indicates that "Other post tensioning schemes other than shown on sheet 44 will be considered". Please elucidate. Will the standard details for 535(03) through 535(05) be considered acceptable alternate post tensioning schemes?

Response: See answer to question 3, in addition to note 8 on sheet 37 for the required post tensioning force. Other post tensioning schemes that provide the required post tensioning force will be considered.

Consider this change and information prior to submitting your bid on May 9, 2012.

Sincerely,

George M. A. Macdougall P.E.
for Contracts & Specifications Engineer



Shear stud
(8 req., radi

POST-TENSIONING DETAIL

Maine Department of Transportation
Qualified Products List of
Joint Sealants

SILICONE-BASED SEALANTS	
Manufacturer / Distributor	**Product Name**
Dow Corning Corporation PO Box 994 Midland, MI 48686-0994 (800) 248-2481	**Dow Corning 902 RCS Joint Sealant** *rapid-cure, self-leveling, two-part silicone rubber sealant designed to seal expansion joints*
	Dow Corning 890-SL Self-Leveling Silicone Joint Sealant *single component, self-leveling silicone sealant for sealing joints in asphalt and/or concrete pavements, meets ASTM D5893*
May National Associates, Inc. 995 Towbin Avenue Lakewood, NJ 08701 (973) 473-3330	**Bondaflex Sil 728 NS** *non-sag, ultra low modulus*
	Bondaflex Sil 728 SL *self-leveling silicone joint sealant*
Watson Bowman Acme Corporation 95 Pineview Drive Amherst, NY 14228 (800) 677-492	**Wabo SiliconeSeal** *two-part, self-leveling, low modulus joint seal*

POLYURETHANE-BASED SEALANTS MEETING ASTM C-920					
Manufacturer / Distributor	**Product Name**	**Use**	**Type**	**Grade**	**Packaging**
Sika Corporation Lyndhurst, NJ 07071 (800) 933-7452 *locally distributed by:* *A.H. Harris & Sons* *22 Leighton Rd.* *Augusta, Maine 04330* *(207) 622-0821*	**Sikaflex-1a***	T, NT, O, M, G, I	Single Component Polyurethane	Non-sag for vertical and horizontal joints	10.1oz. Cartridges, 20 oz. Sausages
	Sikaflex- 1c SL	T, M, A, G, I	Single Component Polyurethane	Pourable/Self-Leveling for horizontal joints	10.1 oz. & 29 oz. Cartridges, 5 gal. pails
	Sikaflex-2c NS	T, NT, M, G, A, O, I	Two Component Polyurethane	Non-sag for vertical and horizontal joints	1.5 gal. & 3 gal. units
	Sikaflex-2c SL	T, NT, M, G, A, O, I	Two Component Polyurethane	Pourable/Self-Leveling for horizontal joints	1.5 gal. & 3 gal. units
	Sikaflex-15 LM	T, NT, G, A, O, M	Single Component Low-Modulus Polyurethane	Non-sag for vertical and horizontal joints	10.1oz. Cartridges, 20 oz. Sausages
	Sikaflex-15 LM SL Grade	For recessed highway and runway joints.	Single Component Low-Modulus Polyurethane	Pourable/Self-Leveling for horizontal joints	4.5 gals. & 50 gals.

Maine Department of Transportation
Qualified Products List of
Joint Sealants

* exceeds MaineDOT Standard Specification 714.04 Sealant

Use codes (ASTM C-920):
T - designed for use in joints in pedestrian and vehicular traffic areas
NT - designed for use in joints in nontraffic areas
I - designed for use in joints which are submerged continuously in a liquid
M - meets the requirements of this specification when tested on mortar specimens
G - meets the requirements of this specification when tested on glass specimens
A - meets the requirements of this specification when tested on aluminum specimens
O - meets the requirements of this specification when tested on substrates other than the standard substrates

Depending on substrate material and condition, a primer may be recommended. Check with Sika Technical Services if there is any question or contact the Product Evaluation Coordinator at the number below.

PLEASE NOTE: Products often times may have multiple uses. Products appearing on this particular list are expressly pre-qualified for this category of usage only. Do not use these products for any other application unless this product is noted on other lists.

Sales Representatives seeking approval of a new product should submit their product's Materials Technical Data Sheet, Instructions for Installation, Material Safety Data Sheet, and a completed copy of the MaineDOT Preliminary Information for Product Evaluation Form.

If you are experiencing difficulties reading or printing this page, or any page on the Qualified Products List website, please contact the Product Evaluation Coordinator at 207-624-3268.

Last updated: January 5, 2012