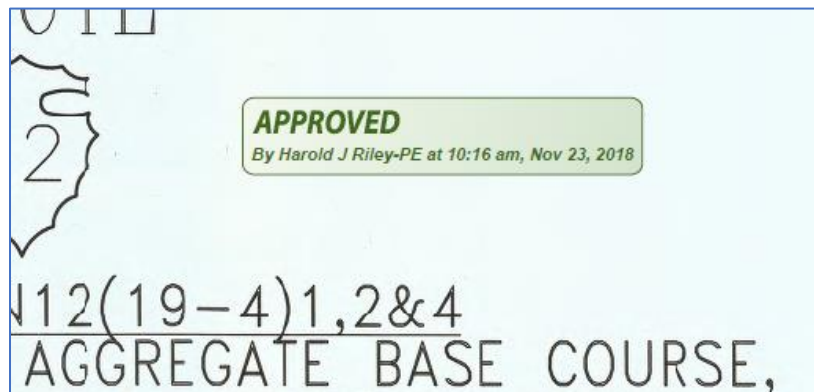


Request for Proposal (RFP)
Bid No: 18-10-1940LE
Addendum No. 4

Date: November 27, 2018
To: All Proposers
Subject: Addendum No. 4
Consisting of nine (9) Pages
RFP No.: 18-10-1940LE
Project Name: N12(19-4)1,2&4
Owner: Navajo Division of Transportation

Proposer shall make note of and/or incorporate all changes listed below into the requested Request for Proposal (RFP):

1. The response to the reinforcing steel question contained within Addendum No. 2 was incorrect. The correct response should have been that Epoxy Coated is correct for bid item 55401-1000. Epoxy coating is required as the foundations are subject to water. Plan sheet B-01 and the Bid Schedule have been corrected to reflect this.
2. The BIA (Engineer of Record) has reviewed and revised several plan sheets based on the questions submitted. Please replace the N12(19-4)1,2&4 plan set with the one dated/approved 11-23-18 on the cover sheet.



3. On Pages 13-15 of the RFP, Attachments, 1) Bid Schedule; the Bid Schedule has been revised and is attached to Addendum 4. The equivalent updated excel file is attached as a separate file (not included in the page count for Addendum No. 4).

Request for Proposal (RFP)
Bid No: 18-10-1940LE
Addendum No. 4

4. The Navajo Division of Transportation has received the following questions regarding this RFP and thereby issues the following responses.

Questions Submitted	Responses Provided
<p>1. Section 408 of the Special Provisions references the construction of the Cold Recycled Base Course. Section 408.01 defines this material as consisting of only reclaimed asphalt pavement material and/or reclaimed aggregate base material and/or reclaimed emulsified asphalt base material. However the plans on Sheet 2 of 88 of the New Typical Cross Section reference ABC mixed with CRAB. In addition on the same sheet Note 5 references mixing new ABC with the CRAB material. Will the new ABC added to make the Typical Section on Sheet 2 be considered incidental to Item 408902-0700 or quantified and paid under a different item? (30103-2000 perhaps?)</p> <p>2. Note 2 on Sheet 2 of 88 of the plans states to pulverize the CRAB material to minus 25 mm. Section 408.01 of the Special Provisions states that the CRAB shall meet be minus 37.5 mm? Which is correct?</p> <p>3. Is it correct that both the New ABC and recycled material only needs to meet the gradation specification referenced in Question 2 when mixed together? We can't find any other specification for the new AB or recycled material to meet.</p>	<p>1. The new ABC required to make the typical section will be paid for under bid item 30103-2000.</p> <p>2. The Supplemental Specifications in Exhibit F govern over the Plans per Section 104. The CRAB shall meet the minus 37.5 mm requirement.</p> <p>3. The new ABC material needs to meet the gradation requirements of Table 703-2 in Exhibit F prior to mixing it with the CRAB. Once the two materials are mixed, they need to meet the minus 37.5 mm requirements in Section 408.</p>
<p>The corresponding excel sheet uploaded to the NDOT website does not reflect the correct date of the PDF sheet provided in</p>	<p>We have reviewed the dates on the bid schedule as issued with Addendum No. 2. Both files have revision dates of 11/15/18.</p>

Request for Proposal (RFP)

Bid No: 18-10-1940LE

Addendum No. 4

addendum 2. Please upload the correct excel sheet corresponding with addendum 2.	These files are being replaced with this addendum and both should have revision dates of 11/27/18.
<p>We have reviewed the Estimated Earthwork Volume Table on Sheet 6 of 88 of the Plans and performed our own Earthwork Takeoffs based on the Cross Sections you have given to us. We have calculated similar Cut and Fill volumes as shown in the table but WITHOUT applying a 15% shrink factor to the Fill volume.</p> <ol style="list-style-type: none">1. Can you verify that the Fill Volumes shown in the Earthwork Table shown on Sheet 6 have a 15% Shrink factor included?2. Based on our calculations after applying a Shrink Factor and removing material to be used as CRABC, we calculate that the project will need approximately 28,000 m3 of Borrow. Can a Borrow item be added to the project?	<ol style="list-style-type: none">1. The BIA has reviewed the calculations and the fill volumes in the Earthwork Table include a 15% shrink factor.2. No Borrow bid item will be added to the project.
We are having a difficult time finding a supplier who can arch pipe for the diameter called out on the plans for the temporary detour roads (2845 mm x 1905 mm). Since the pipe will only be used for a temporary purpose, would it be acceptable to install a smaller diameter pipe such as 2134 mm?	It is acceptable to install pipes that are slightly different in size at the detour location as long as the total pipe opening area is equal to or greater than what the current pipes require. The proposed pipes installed must pass the design flows listed and provide 2 feet (0.6 m) of freeboard from the roadway profile.
After reading addendum number 3, there needs to be some clarification in regards to the firewood that will be left for the community. Do the contractors leave the logs in manageable lengths for the community to cut up into firewood lengths or is the contractor required to cut all logs into firewood lengths? (approx. 18") This process is a tremendous amount of manhours and	<p>The Section 202 Timber Cutting, Removal, and Stockpiling Requirements call for the following:</p> <p>Special Provision 4.1 - All limbs must be removed from the main stem and cut flush with the bole. Limbs and branches greater than 5 inches must be bucked up for firewood and made available for public use.</p>

Request for Proposal (RFP)

Bid No: 18-10-1940LE

Addendum No. 4

<p>should be clarified so all contractors are pricing the same operation.</p>	<p>Special Provision 4.9 - Cull trees/logs must be bucked into segments no longer than 20 feet in length. Cull trees/logs must have all exposed branches and limbs cut flush with the bole.</p> <p>The 20 foot length requirement for the cull trees/logs in Section 4.9 shall be the same requirement for all logs that are felled.</p>
<p>1) Bid Item 55101-2200 calls for 660 MM Diameter Steel Pipe Piles. Converting 660 MM pipe to inches is 25.98". Suppliers can make 26" diameter pipe, but the cost may be more than a standard sized pipe. Standard steel pipe sizes are 24" and 30" diameter.</p> <p><u>Will the department allow the contractor to use a larger diameter pipe if the cost of the pipe is less expensive than the 26" diameter pipe?</u></p> <p>2) Bid Item 55101-2200 has a quantity of 355 meters. Plan sheet B-04 gives lengths of 10.8 meters for abutment 1 piles, and 11.5 meters for abutment 2 piles, which equates to 312.2 meters. Manufacturers have a standard length of 40' (12 meters), and the Special Provisions require a minimum of 12 meter lengths for the piles before the contractor is allowed to splice. If the quantity that is installed is only paid at approximately 312.2 meters, then the contractor must significantly increase the unit price of the driven piles to cover material costs.</p> <p><u>Will the department add an item to cover the additional material cost of the steel pipe, or does the contractor need to account for the quantity underrun?</u></p>	<ol style="list-style-type: none">1. The larger 30" diameter steel pipe pile may be used as long as the pile cap reinforcement minimum spacing requirements are still met. The contractor shall be responsible for reviewing/verifying these requirements as part of the submittal process.2. No additional bid item will be made for the extra pile material. The contractor will be paid for the length of installed pile and should account for this extra material cost in their unit bid price for the bid item provided.

Request for Proposal (RFP)

Bid No: 18-10-1940LE

Addendum No. 4

I'm requesting clarification on the pavement markings for Bid No. 18-10-1940LE: "N12(19-4)1,2&4 Road Improvement Project in Tsailé/Wheatfields.

In section 634 – Pavement Markings, Type L – Ultra High Build Waterborne Traffic Paint with two application are required with only the 2nd coat of paint gets bead, In the bid schedule for addendum #2 Type H Thermoplastic is called for. What type of markings is the government requiring?

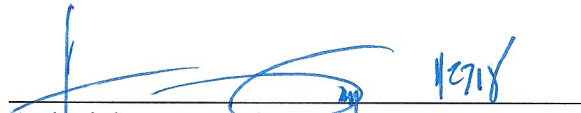
The Section 634 Supplemental Specification in Exhibit F does not dictate the only type of pavement marking to be used on the project. It is merely adding in another option "Type L" that the designer can utilize. The full Section 634 of the FP-14 specifications contains the full listing of available pavement markings.

<https://flh.fhwa.dot.gov/resources/specs/fp-14/fp14.pdf>

The plans and bid schedule call for Type H pavement markings to be used, which is correct.

END OF ADDENDUM NO. 4

Thank you for your interest!


Ardaniel Begay, Principal Contract Analyst
Project Contact Person



BID SCHEDULE
NAVAJO NATION DIVISION OF TRANSPORTATION

PROJECT: N12(19-4)1,2&4

Date: November 27, 2018

LENGTH: 17.20 km

ITEM	DESCRIPTION	Quantity	Units	Unit Bid Price	Total Price
10901-0000	Extra & Miscellaneous Work - Authorized under Suppl. Spec. 109.02(s) of Exhibit F	All Required	Lump Sum	\$200,000.00	\$200,000.00
15101-0000	Mobilization	All Required	Lump Sum	\$	\$
15201-0000	Construction Survey & Staking	All Required	Lump Sum	\$	\$
15301-0020	Contractor Quality Control	13,750.00	Man Hr	\$	\$
15701-0000	Temporary Erosion Control	All Required	Lump Sum	\$	\$
15708-1000	Temporary Straw Mulching	20.61	ha	\$	\$
20102-0000	Clearing and Grubbing	All Required	Lump Sum	\$	\$
20304-1000	Removal of Structures and Obstructions	All Required	Lump Sum	\$	\$
20401-0000	Roadway Excavation	126,350.0	m ³	\$	\$
20801-0000	Structure Excavation	1,383.0	m ³	\$	\$
20803-0000	Structure Backfill	603.0	m ³	\$	\$
20443-1000	Earthen Dike/Berm, Type "A"	171.0	m	\$	\$
20601-0000	Development of Water Supply	25.0	M-liter	\$	\$
21301-4000	Subgrade Stabilization with Road Bond EN-1, 305 mm	31,545.6	m ²	\$	\$
25101-2000	Placed Riprap , Class-2	323.4	m ³	\$	\$
25110-2000	Grouted Riprap Class-2	195.8	m ³	\$	\$
25112-2000	Wire Enclosed Riprap, Class 2	1,694.5	m ³	\$	\$
30103-2000	Untreated Aggregate Base, Grading Special	6,332.0	t	\$	\$
40201-0500	Hot Asphaltic Concrete Pavement, Class B, Grade B, Type III Smoothness	53,924.0	t	\$	\$
40502-0800	Asphalt Cement, Grade PG-58-28	3,235.0	t	\$	\$
40802-0700	Cold Recycled Asphalt Base Course, 279 Depth	116,300.0	m ²	\$	\$
41101-5000	Prime Coat - Penetrating Emulsified Prime, Grade PEP	231.0	t	\$	\$
41201-1000	Asphalt Emulsion Tack Coat, Grade SS-1	38.0	t	\$	\$
55201-0200	Structural Concrete Class A(AE)	332.0	m ³	\$	\$
55401-1000	Reinforcing Steel , Grade 420, Epoxy Coated	22,886.7	kg	\$	\$
55101-2200	660 mm diameter Steel Pipe Pile filled with concrete, in place (Bridge N504)	355.0	m	\$	\$
55115-1000	Preboring of Piles	251.0	m	\$	\$
60101-1000	Minor Concrete, Class A(AE)	80.0	m ³	\$	\$
60201-0810	610 mm Corrugated Steel Pipe	1,132.6	m	\$	\$
60201-0910	762 mm Corrugated Steel Pipe	393.9	m	\$	\$
60201-1010	914 mm Corrugated Steel Pipe	82.9	m	\$	\$
60201-1110	1067 mm Corrugated Steel Pipe	52.4	m	\$	\$
60201-1210	1219 mm Corrugated Steel Pipe	200.0	m	\$	\$
60201-1410	1524 mm Corrugated Steel Pipe	109.7	m	\$	\$
60201-1810	2134 mm Corrugated Steel Pipe	42.0	m	\$	\$



**BID SCHEDULE
NAVAJO NATION DIVISION OF TRANSPORTATION**

PROJECT: N12(19-4)1,2&4

Date: November 27, 2018

LENGTH: 17.20 km

ITEM	DESCRIPTION	Quantity	Units	Unit Bid Price	Total Price
60202-0610	889 mm Span x 610 mm Rise Corrugated Steel Pipe-Arch	96.3	m	\$	\$
60202-0710	1067 mm Span x 737 mm Rise Corrugated Steel Pipe-Arch	354.2	m	\$	\$
60202-0810	1245 mm Span x 838 mm Rise Corrugated Steel Pipe-Arch	331.0	m	\$	\$
60202-0910	1448 mm Span x 965 mm Rise Corrugated Steel Pipe-Arch	107.3	m	\$	\$
60202-1110	1803 mm Span x 1194 mm Rise Corrugated Steel Pipe-Arch	418.5	m	\$	\$
60210-0810	End Section 610 mm CSPC	101	Each	\$	\$
60210-0910	End Section 762 mm CSPC	14	Each	\$	\$
60210-1010	End Section 914 mm CSPC	6	Each	\$	\$
60210-1110	End Section 1067 mm CSPC	2	Each	\$	\$
60210-1210	End Section 1219 mm CSPC	6	Each	\$	\$
60211-1010	End Section 889 mm Span x 610 mm Rise CSPA	4	Each	\$	\$
60211-1110	End Section 1067 mm Span x 737 mm Rise CSPA	15	Each	\$	\$
60211-1210	End Section 1245 mm Span x 838 mm Rise CSPA	7	Each	\$	\$
60211-1310	End Section 1448 mm Span x 965 mm Rise CSPA	4	Each	\$	\$
60211-1510	End Section 1803 mm Span x 1194 mm Rise CSPA	6	Each	\$	\$
60301-0710	2448 mm Structural Plate Pipe Culvert, SPCC	87.8	m	\$	\$
60302-0910	2616 mm Span x 1803 mm Rise Structural Plate Pipe-Arch, SPPA	189.0	m	\$	\$
60304-0100	17.374 m Span x 3.249 m Rise Pre-Cast Arch Culvert Units with Precast Wingwalls - (Bridge N504)	23	Each	\$	\$
60304-0200	17.374 m Span x 3.249 m Rise Pre-Cast Arch Culvert with Precast Wingwalls - (Bridge N505)	21	Each	\$	\$
60701-1000	Remove, Clean and Stockpiling Pipe	1,369.5	m	\$	\$
61701-5000	Guardrail System, SGR04b, Type PDE02 with End Treatment SKT-350 & Thrie Beam, Type "A" Installation	944.9	m	\$	\$
61801-0000	Concrete Jersey Barrier, with transition barrier, Bridge N505	36.6	m	\$	\$
61901-3500	Wildlife Crossing Fence	35,104.0	m	\$	\$
61902-2310	Type 2 Gate only for 4.5 m wide Turnout	4	Each	\$	\$
61903-0310	Cattleguard (2-Unit) 4900 mm Width with Type 2 Gate	38	Each	\$	\$
61903-0710	Cattleguard (3-Unit) 7190 mm Width with Type 2 Gate	14	Each	\$	\$
61903-1010	Cattleguard (4-Unit) 9480 mm Width with Type 2 Gate	9	Each	\$	\$
61903-1110	Cattleguard (5-Unit) 11900 mm Width with Type 2 Gate	2	Each	\$	\$
61920-3000	Remove And Reset Cattleguard (At N12 & N64 Intersection)	1	Each	\$	\$
62101-0000	Right-Of-Way Monument	80	Each	\$	\$
62102-0000	Reference Marker	80	Each	\$	\$
62510-1000	Seeding, Dry Method	20.61	ha	\$	\$
62901-1100	Erosion Control Matting, Type IV	26,942	m ²	\$	\$



BID SCHEDULE **NAVAJO NATION DIVISION OF TRANSPORTATION**

PROJECT: N12(19-4)1,2&4

Date: November 27, 2018

LENGTH: 17.20 km

ITEM	DESCRIPTION	Quantity	Units	Unit Bid Price	Total Price
63302-2001	Sign Installation, 1-Post - 38 mm x 38 mm, Square Steel Post	39.8	m ²	\$	\$
63302-2002	Sign Installation, 1-Post - 44 mm x 44 mm, Square Steel Post	72.3	m ²	\$	\$
63302-2006	Sign Installation, 2-Post - 50 mm x 50 mm, Square Steel Post	22.7	m ²	\$	\$
63302-2007	Sign Installation, 2-Post - 57 mm x 57 mm, Square Steel Post	19.6	m ²	\$	\$
63302-2012	Sign Installation, 4-Post - 57 mm x 57 mm, Square Steel Post	1.9	m ²	\$	\$
63308-2000	Object Marker, Type 2, Square Steel Tube, 1- 38 mm x 38 mm	110	Each	\$	\$
63308-3010	Object Marker, Type 3, Square Steel Tube, 1- 38 mm x 38 mm	10	Each	\$	\$
63309-0040	Delineator, 1-38 mm x 38 mm Square Steel Tube, Type "1b"	115	Each	\$	\$
63318-1020	Milepost, 1- 38 mm x 38 mm square steel tube	26	Each	\$	\$
63401-1510	Pavement Markings, Type "H" Solid Yellow	11,620.5	m	\$	\$
63401-1520	Pavement Markings, Type "H" Solid White	34,313.9	m	\$	\$
63401-1610	Pavement Markings, Type "H" Broken Yellow	12,305.8	m	\$	\$
63401-1620	Pavement Markings, Type "H" Broken White	240.0	m	\$	\$
63405-2900	Pavement Marking, , Type "H", Turn Arrow	21	Each	\$	\$
63405-2950	Pavement Marking, Type "H", Straight Arrow	19	Each	\$	\$
63405-3000	Pavement Marking, Type "H", Straight/ Turn Arrow Combination	11	Each	\$	\$
63405-3050	Pavement Marking, Type "H", word " ONLY "	12	Each	\$	\$
63405-3260	Pavement Markings, Type "H" STOP bar	24	Each	\$	\$
63405-3290	Pavement Markings, Type "H", diagonal striping, solid yellow	9	Each	\$	\$
63501-0000	Temporary Traffic Control Main Road Only	All Req'd	Lump Sum	\$	\$
63502-3000	Temporary Traffic Control, Raised Pavement Marker	7,644	Each	\$	\$
63509-1000	Flagger	12,655	Man Hrs.	\$	\$
63510-1000	Construction of Temporary Detour Roads for bridges including all Traffic Control Devices	All Req'd	Lump Sum	\$	\$
				Subtotal:	\$
				Navajo Nation Tax (6%):	\$
				Total Bid Price:	\$

Contractor Name

SCOPE-OF-WORK

The proposed work consists of furnishing all labor, material, equipment and incidentals necessary for construction of 17.20 km of grade and drainage, placement of aggregate base, hot asphaltic concrete pavement, bridge work, precast arch structures, and other miscellaneous construction in accordance with the specification and design drawings for this Project. The quantities listed for each item is estimated and the Unit Price is applicable to each as given in the Bid Schedule above. The final pay quantity measurements shall be rounded to the significant figures given in this bid schedule for the final pay estimate. Payment for work performed on Items furnished will be made in accordance with Sub-Section 109.05, Scope of Payment of FP-14. **The Unit Bid Price must include all overhead, profit, and bonding.**

Addendum Acknowledgement

Addendum:

In submitting this Bid, Respondent represents that: *Respondent has examined and carefully studied the RFP and attachments, and any data and reference items identified in the RFP documents, and hereby acknowledges receipt of the following Addenda:*

Addendum No:**Addendum Date:**

Respondent's Acknowledgement Signature:

Name and Title

Company Name

Signature