

<b>PA-06-TX-4245-PW-00090(0)</b> <u>P</u>	
Applicant Name: HIDALGO (COUNTY)	Application Title: HID003C Hidalgo Co. Pct. 1 Roads
Period of Performance Start: 11-25-2015	Period of Performance End: 05-25-2017

Bundle Reference # (Amendment #)	Date Awarded

### Subgrant Application - FEMA Form 90-91

**Note:** The Effective Cost Share for this application is 75%

FEDERAL EMERGENCY MANAGEMENT AGENCY PROJECT WORKSHEET					
DISASTER		PROJECT NO.	PA ID NO.	DATE	CATEGORY
FEMA	4245 - DR -TX	HID003C	215-99215-00	04-11-2016	C
APPLICANT: HIDALGO (COUNTY)			WORK COMPLETE AS OF: 03-14-2016 : 0 %		
Site 1 of 10					
DAMAGED FACILITY:  Site 01			COUNTY: Hidalgo		
LOCATION:  Current Version: Site # 1 Start Lat.: 26.15493 Long.: -98.01469 to End Lat.: 26.14788 Long.: -97.01457 Milano Rd (also known as Hopper Rd). between Business 83 and 6 1/2 North in Weslaco, TX 78596. See attached pictures labelled as Site 01 photos.				LATITUDE: 26.14788 26.15493	LONGITUDE: -97.01457 -98.01469
DAMAGE DESCRIPTION AND DIMENSIONS:  Current Version: DDD  During the Declared event period, standing floodwaters at a depth of 2 Ft. submerged this section of paved roadway for a period of longer than Three (3) Weeks. Water saturated the base material (Caliche) which caused the road wear surface (Asphalt) to severely undulate, rut and delaminate. To restore the road to pre event form and function, the Applicant will the need to replace the following: <ul style="list-style-type: none"> <li>• Caliche Base - Dimensions 3240 Ft. long by 24 Ft. Wide by 0.500 Ft. (6 inch) deep / 9 = 8,640.00 SY</li> <li>• Asphalt Wear Surface - Dimensions 3240 Ft. long by 20 Ft. Wide by 0.167 Ft. (2 inch) deep / 9 = 7,200 SY</li> </ul> This road, while in fair condition is nonetheless recommended as eligible damages, the rational for this recommendation is based on the FEMA PA Specialists' Inspection, assessment and observations of road sections along this road that were not submerged; these asphalt wear surfaces remained even planed, adhered to the base material; and, intact in spite of exhibiting signs of fair condition throughout. Had this damaged section of road not been submerged for a protracted period of time, the likelihood is it would have remained intact. Therefore the damages at are recommended as eligible in accordance with 44 CFR §206.223 (a) (1) (2) (3). End of DDD					
SCOPE OF WORK:  Current Version: SOW PS COMMENTS: A. Bid Tabulations from MJA Construction, LLC., And TEXAS CORDIA, Bid No. 2016-028-01-27-MSS, Jan. 2016 B. TEXDOT Average Unit Bid Cost, Nov. 2015-Jan. 2016. 1. 0105-6045 2. 5001-6001 3. 0260-6006					

**Work to Be Completed**

The Applicant will follow its Procurement Policy and use public competitive bid solicitations to hire a Contractor to perform the repairs in accordance with the Scope of Work as detailed in this Sub Grant Application. The FEMA PA Specialist formulated this Damage Description, Scope of Work and Estimates with the cooperation and concurrence of the Applicants' Engineer and Assistant Director of Operations. The FEMA Specialist worked with the Applicants' Assistant Director of Operations and both parties (FEMA and Applicant), working together, inspected and evaluated all sites contained in this project. The FEMA Specialist Estimated the cost of the project using Recent Local Historical Costs for similar work using unit costs from Bid Tabulations from MJA Construction, LLC., and TEXAS CORDIA, Bid No. 2016-028-01-27-MSS, Jan. 2016 and TEXDOT Average Unit Bid Cost, Nov. 2015-Jan. 2016.

**Codes and Standards**

In 2006 The Applicant (Hidalgo County) adopted a new standard for the Construction and Repair of Roads (Class C Pavement). All Sites on this Project are in the jurisdictional responsibility of Hidalgo County Precinct 1. Hidalgo County Precinct 1 has adopted this new design and implemented it on all new construction and repair projects since it was codified in 2006 by the County Board of Commissioners.

The New Standard (enacted 2006) specifies an Eight (8) Inch depth for Caliche' base material on all paved roads. All of the roads that are contained in this project were built prior to the new standard; and, the existing Caliche' base depth is Six (6) Inches. To conform to the standard, the Applicant will specify that the successful Bidder (Contractor) will remove the existing damaged Two (2) Inch Deep Asphalt wear surface plus Four (4) Inch Deep of the existing Six (6) Inch Caliche' Base. The remaining Two (2) Inch deep Caliche will be treated with a 1.5 % Lime Treatment and Contractor will furnish and install another Six (6) Inch deep layer of Caliche' to bring the base to the New Standard Eight (8) Depth specification; Then, apply a Prime Coat and a Two (2) Inch deep Asphalt Wear Surface.

Therefore, since the proposed repairs and scope items meet the stated criteria items 1,2,3,4,and 5 for Codes and Standards as defined on page 19 of The FEMA Public Assistance Policy Digest, and 44 CFR §206.221(i) and §206.226(d) and Page 80 paragraph 2 of The FEMA Public Assistance Guide FEMA 322, This Scope of Work and associated estimated Costs are recommended as eligible in accordance with 44 CFR §206.228 (a) (ii) (iii) (2) (I).

**Scope Items**

- 1.Using Contract Labor, Equipment and Material - Excavate and haul away for reclamation 2 Inch deep Asphalt wear surface and 4 Inches of Caliche' base, Note base is 4 Ft. wider than wear surface. Treat existing sub base with 2% lime and compact to achieve proposed sub base. - Dimensions 3240 Ft. long by 24 Ft. Wide by 0.500 Ft. (6 inch) deep/ 9 = 8640 SY @ \$9.19/SY = \$79,401.60. See PS Comments B. (1)
- 2.Using Contract Labor, Equipment and Material - Install Biaxial Geogrid #1200 material over Sub Base. - Dimensions 3240 Ft. long by 24 Ft. Wide by 0.000 Ft. (0 inch) deep / 9 = 8,640 SY @ \$1.31/SY = \$11,318.40 See PS Comment B (2)
- 3.Using Contract Labor, Equipment and Material - Furnish and Install 6" deep compacted Caliche Base Course. Note this Base Course is Four (4) Feet wider than the Asphalt Wear Course [Two (2) Feet wider on each side of the road] to provide a stable shoulder. - Dimensions 3240 Ft. long by 24 Ft. Wide by 0.500 Ft. (6 inch) deep/ 9 = 8,640 SY @ \$3.50/SY = \$30,240.00 See PS Comment A
- 4.Using Contract Labor, Equipment and Material - Furnish and Apply a 1.5 Percent Lime Treatment to the Caliche Base Material. - Dimensions 3240 Ft. long by 24 Ft. Wide by 0.000 Ft. (0 inch) deep/ 9 = 8,640 SY @ \$1.30/SY = \$11,232.00 See PS Comment B (3)
- 5.Using Contract Labor, Equipment and Material - Furnish and Apply a Prime Coat (MC-30) (0.2 GAL/SY) Asphaltic material on Caliche' Base surface - Dimensions 3240 Ft. long by 20 Ft. Wide by 0.000 Ft. (0 inch) deep/ 9 = 7,200 SY @ \$1.00/SY = \$7,200.00 See PS Comment A
- 6.Using Contract Labor, Equipment and Material - Furnish, Install and Roll a 2 Inch deep HMAC TYPE "D" Asphalt wear surface. - Dimensions 3240 Ft. long by 20 Ft. Wide by 0.167 Ft. (2 inch) deep/ 9 = 7,200 SY @ \$10.80/SY = \$77,760.00 See PS Comment A
- 7.Using Contract Labor, Equipment and Material - Install pavement markings and lines, - Dimensions 3240 Ft. long by 20 Ft. Wide by 0.000 Ft. (0 inch) deep/ 9 = 7,200 SY @ \$0.93/SY = \$6,696.00
- 8.Using Contract Labor, Equipment and Material - Regrade Roadside Ditches. - Dimensions 6,480 LF @ \$2.00/LF = \$12,960.00
- 9.Using Contractor Labor, Equipment and Materials Provide Traffic Safety and Control  
Lump Sum = \$5,000.00

Summary for Contract Base Cost \$241,808.00

Site 2 of 10

<b>DAMAGED FACILITY:</b>			
Site 02		COUNTY: Hidalgo	
<b>LOCATION:</b>		<b>LATITUDE:</b>	<b>LONGITUDE:</b>
Current Version: Site # 2 Lat.: 26.14002 Long.: -98.04090 to Lat.: 26.13875 Long.: -98.03168 Lott Rd. between Soudiquiest and East in Weslaco, TX. 78596 See attached pictures labelled as Site 02 photos.		26.13875 26.14002	-98.03168 -98.0409

**DAMAGE DESCRIPTION AND DIMENSIONS:**

## Current Version:

DDD

During the Declared event period, standing floodwaters at a depth of 2 Ft. submerged this section of paved roadway for a period of longer than Three (3) Weeks. Water saturated the base material (Caliche) which caused the road wear surface (Asphalt) to severely undulate, rut and delaminate. To restore the road to pre event form and function, the Applicant will the need to replace the following:

- Caliche Base - Dimensions 3084 Ft. long by 28 Ft. Wide by 0.500 Ft. (6 inch) deep / 9 = 9594.67 SY
- Asphalt Wear Surface - Dimensions 3084 Ft. long by 24 Ft. Wide by 0.167 Ft. (2 inch) deep / 9 = 8224.00 SY

This road, while in fair condition is nonetheless recommended as eligible damages, the rationale for this recommendation is based on the FEMA PA Specialists' Inspection, assessment and observations of road sections along this road that were not submerged; these asphalt wear surfaces remained even planed, adhered to the base material; and, intact in spite of exhibiting signs of fair condition throughout. Had this damaged section of road not been submerged for a protracted period of time, the likelihood is it would have remained intact. Therefore the damages are recommended as eligible in accordance with 44 CFR §206.223 (a) (1) (2) (3).

End of DDD

## SCOPE OF WORK:

## Current Version:

SOW

## PS COMMENTS:

- A. Bid Tabulations from MJA Construction, LLC., and TEXAS CORDIA, Bid No. 2016-028-01-27-MSS, Jan. 2016
- B. TEXDOT Average Unit Bid Cost, Nov. 2015-Jan. 2016
  1. 0105-6045
  2. 5001-6001
  3. 0260-6066

## Work to Be Completed

The Applicant will follow its Procurement Policy and use public competitive bid solicitations to hire a Contractor to perform the repairs in accordance with the Scope of Work as detailed in this Sub Grant Application. The FEMA PA Specialist formulated this Damage Description, Scope of Work and Estimates with the cooperation and concurrence of the Applicants' Engineer and Assistant Director of Operations. The FEMA Specialist worked with the Applicants' Assistant Director of Operations and both parties (FEMA and Applicant), working together, inspected and evaluated all sites contained in this project. The FEMA Specialist Estimated the cost of the project using Recent Local Historical Costs for similar work using unit costs from Bid Tabulations from MJA Construction, LLC., and TEXAS CORDIA, Bid No. 2016-028-01-27-MSS, Jan. 2016 and TEXDOT Average Unit Bid Cost, Nov. 2015-Jan. 2016.

## Codes and Standards

In 2006 The Applicant (Hidalgo County) adopted a new standard for the Construction and Repair of Roads (Class C Pavement). All Sites on this Project are in the jurisdictional responsibility of Hidalgo County Precinct 1. Hidalgo County Precinct 1 has adopted this new design and implemented it on all new construction and repair projects since it was codified in 2006 by the County Board of Commissioners.

The New Standard (enacted 2006) specifies an Eight (8) Inch depth for Caliche' base material on all paved roads. All of the roads that are contained in this project were built prior to the new standard; and, the existing Caliche' base depth is Six (6) Inches. To conform to the standard, the Applicant will specify that the successful Bidder (Contractor) will remove the existing damaged Two (2) Inch Deep Asphalt wear surface plus Four (4) Inch Deep of the existing Six (6) Inch Caliche' Base. The remaining Two (2) Inch deep Caliche will be treated with a 1.5 % Lime Treatment and Contractor will furnish and install another Six (6) Inch deep layer of Caliche' to bring the base to the New Standard Eight (8) Depth specification; Then, apply a Prime Coat and a Two (2) Inch deep Asphalt Wear Surface.

Therefore, since the proposed repairs and scope items meet the stated criteria items 1,2,3,4, and 5 for Codes and Standards as defined on page 19 of The FEMA Public Assistance Policy Digest, and 44 CFR §206.221(i) and §206.226(d) and Page 80 paragraph 2 of The FEMA Public Assistance Guide FEMA 322, This Scope of Work and associated estimated Costs are recommended as eligible in accordance with 44 CFR §206.228 (a) (ii) (iii) (2) (I).

## Scope Items

1. Using Contract Labor, Equipment and Material - Excavate and haul away for reclamation 2 Inch deep Asphalt wear surface and 4 Inches of Caliche' base, Note base is 4 Ft. wider than wear surface. Treat existing sub base with 2% lime and compact to achieve proposed sub base. - Dimensions 3084 Ft. long by 28 Ft. Wide by 0.500 Ft. (6 inch) deep/ 9 = 9,594.67 SY @ \$9.19/SY = \$88,174.99 See PS Comment B (1)
2. Using Contract Labor, Equipment and Material - Install Biaxial Geogrid #1200 material over Sub Base. - Dimensions 3084 Ft. long by 28 Ft. Wide by 0.000 Ft. (0 inch) deep / 9 = 9,594.67 SY @ \$1.31/SY = \$12,569.01 See PS Comment B (2)
3. Using Contract Labor, Equipment and Material - Furnish and Install 6" deep compacted Caliche Base Course. Note this Base Course is Four (4) Feet wider than the Asphalt Wear Course [Two (2) Feet wider on each side of the road] to provide a stable shoulder. - Dimensions 3084 Ft. long by 28 Ft. Wide by 0.500 Ft. (6 inch) deep/ 9 = 9,594.67 SY @ \$3.50/SY = \$33,581.33 See PS Comment A
4. Using Contract Labor, Equipment and Material - Furnish and Apply a 1.5 Percent Lime Treatment to the Caliche Base Material. - Dimensions 3084 Ft. long by 28 Ft. Wide by 0.000 Ft. (0 inch) deep/ 9 = 9594.67 SY @ \$1.30/SY = \$12,473.07 See PS Comment B (3)
5. Using Contract Labor, Equipment and Material - Furnish and Apply a Prime Coat (MC-30) (0.2 GAL/SY) Asphaltic material on Caliche' Base surface - Dimensions 3084 Ft. long by 24 Ft. Wide by 0.000 Ft. (0 inch) deep/ 9 = 8,224 SY @ \$1.00/SY = \$8,224.00 See PS Comment A
6. Using Contract Labor, Equipment and Material - Furnish, Install and Roll a 2 Inch deep HMAc TYPE "D" Asphalt wear surface. - Dimensions 3084 Ft. long by 24 Ft. Wide by 0.167 Ft. (2 inch) deep/ 9 = 8224 SY @ \$10.80/SY = \$88,819.20 See PS Comment A
7. Using Contract Labor, Equipment and Material - Install pavement markings and lines, - Dimensions 3084 Ft. long by 24 Ft. Wide by 0.000 Ft. (0 inch) deep/ 9 = 8224 SY @ \$0.93/SY = \$7,648.32

8.Using Contract Labor, Equipment and Material - Regrade Roadside Ditches. - Dimensions 6168 LF @ \$2.00/LF = \$12,336.00

9.Using Contractor Labor, Equipment and Materials Provide Traffic Safety and Control  
Lump Sum = \$5,000.00

Summary Estimate Contract Base Cost \$268,825.92

Site 3 of 10

DAMAGED FACILITY:

COUNTY: Hidalgo

Site 03

LOCATION:

LATITUDE:

LONGITUDE:

26.23578

-97.95975

26.23589

-97.95169

Current Version:

Site # 3 Lat.: 26.23578 Long.: -97.95975 to Lat.: 26.23589 Long.: -97.95169 Mile 12 ½ North between FM 1015 and Mile 2in Weslaco, TX 78596 . See attached pictures labelled as Site 03 photos.

DAMAGE DESCRIPTION AND DIMENSIONS:

Current Version:

DDD

During the Declared event period, standing floodwaters at a depth of 2 Ft. submerged this section of paved roadway for a period of longer than Three (3) Weeks. Water saturated the base material (Caliche) which caused the road wear surface (Asphalt) to severely undulate, rut and delaminate. To restore the road to pre event form and function, the Applicant will the need to replace the following:

- Caliche Base - Dimensions 2640 Ft. long by 28 Ft. Wide by 0.500 Ft. (6 inch) deep / 9 = 8,213.33 SY
- Asphalt Wear Surface - Dimensions 2640 Ft. long by 24 Ft. Wide by 0.167 Ft. (2 inch) deep / 9 = 7,040.00 SY

This road, while in fair condition is nonetheless recommended as eligible damages, the rational for this recommendation is based on the FEMA PA Specialists' Inspection, assessment and observations of road sections along this road that were not submerged; these asphalt wear surfaces remained even planed, adhered to the base material; and, intact in spite of exhibiting signs of fair condition throughout. Had this damaged section of road not been submerged for a protracted period of time, the likelihood is it would have remained intact. Therefore the damages at are recommended as eligible in accordance with 44 CFR §206.223 (a) (1) (2) (3).

End of DDD

SCOPE OF WORK:

Current Version:

SOW

Work to Be Completed

The Applicant will follow its Procurement Policy and use public competitive bid solicitations to hire a Contractor to perform the repairs in accordance with the Scope of Work as detailed in this Sub Grant Application. The FEMA PA Specialist formulated this Damage Description, Scope of Work and Estimates with the cooperation and concurrence of the Applicants' Engineer and Assistant Director of Operations. The FEMA Specialist worked with the Applicants' Assistant Director of Operations and both parties (FEMA and Applicant), working together, inspected and evaluated all sites contained in this project. The FEMA Specialist Estimated the cost of the project using Recent Local Historical Costs for similar work using scope items and unit costs from Bid Tabulations for recent work the Applicant hired a Contractor to perform. The Cost provided were from late 2014. The FEMA Specialist used the 2014 unit costs on the Part A of the FEMA CEF and adjusted the cost in the CEF Part E (Cost Escalation using CCI Data) allowing for 16 Months escalation to compensate for aging of cost data provided.

Codes and Standards

In 2006 The Applicant (Hidalgo County) adopted a new standard for the Construction and Repair of Roads (Class C Pavement). All Sites on this Project are in the jurisdictional responsibility of Hidalgo County Precinct 1. Hidalgo County Precinct 1 has adopted this new design and implemented it on all new construction and repair projects since it was codified in 2006 by the County Board of Commissioners.

The New Standard (enacted 2006) specifies an Eight (8) Inch depth for Caliche' base material on all paved roads. All of the roads that are contained in this project were built prior to the new standard; and, the existing Caliche' base depth is Six (6) Inches. To conform to the standard, the Applicant will specify that the successful Bidder (Contractor) will remove the existing damaged Two (2) Inch Deep Asphalt wear surface plus Four (4) Inch Deep of the existing Six (6) Inch Caliche' Base. The remaining Two (2) Inch deep Caliche will be treated with a 1.5 % Lime Treatment and Contractor will furnish and install another Six (6) Inch deep layer of Caliche' to bring the base to the New Standard Eight (8) Depth specification; Then, apply a Prime Coat and a Two (2) Inch deep Asphalt Wear Surface.

Therefore, since the proposed repairs and scope items meet the stated criteria items 1,2,3,4,and 5 for Codes and Standards as defined on page 19 of The FEMA Public Assistance Policy Digest, and 44 CFR §206.221(i) and §206.226(d) and Page 80 paragraph 2 of The FEMA Public Assistance Guide FEMA 322, This Scope of Work and associated estimated Costs are recommended as eligible in accordance with 44 CFR §206.228 (a) (ii) (iii) (2) (I).

Scope Items

- 1.Using Contract Labor, Equipment and Material - Excavate and haul away for reclamation 2 Inch deep Asphalt wear surface and 4 Inches of Caliche' base, Note base is 4 Ft. wider than wear surface. Treat existing sub base with 2% lime and compact to achieve proposed sub base. - Dimensions 2640 Ft. long by 28

Ft. Wide by 0.500 Ft. (6 inch) deep/ 9 =8,213.33 SY @ \$6.80/SY = \$55,850.67

2.Using Contract Labor, Equipment and Material - Install Biaxial Geogrid #1200 material over Sub Base. - Dimensions 2640 Ft. long by 28 Ft. Wide by 0.000 Ft. (0 inch) deep / 9 = 8,213.33 SY @ \$1.30/SY = \$10,677.33

3.Using Contract Labor, Equipment and Material - Furnish and Install 6" deep compacted Caliche Base Course. Note this Base Course is Four (4) Feet wider than the Asphalt Wear Course [Two (2) Feet wider on each side of the road] to provide a stable shoulder. - Dimensions 2640 Ft. long by 28 Ft. Wide by 0.500 Ft. (6 inch) deep/ 9 = 8,213.33 SY @ \$5.35/SY = \$43,941.33

4.Using Contract Labor, Equipment and Material - Furnish and Apply a 1.5 Percent Lime Treatment to the Caliche Base Material. - Dimensions 2640 Ft. long by 28 Ft. Wide by 0.000 Ft. (0 inch) deep/ 9 = 8,213.33 SY @ \$0.75/SY = \$6,160.00

5.Using Contract Labor, Equipment and Material - Furnish and Apply a Prime Coat (MC-30) (0.2 GAL/SY) Asphaltic material on Caliche' Base surface - Dimensions 2640 Ft. long by 24 Ft. Wide by 0.000 Ft. (0 inch) deep/ 9 =7,040.00 SY @ \$0.40/SY = \$2,816.00

6.Using Contract Labor, Equipment and Material - Furnish, Install and Roll a 2 Inch deep HMAc TYPE "D" Asphalt wear surface. - Dimensions 2640 Ft. long by 24 Ft. Wide by 0.167 Ft. (2 inch) deep/ 9 =7,040.00 SY @ \$9.00/SY = \$63,360.00

7.Using Contract Labor, Equipment and Material - Install pavement markings and lines, - Dimensions 2640 Ft. long by 24 Ft. Wide by 0.000 Ft. (0 inch) deep/ 9 = 7,040.00 SY @ \$0.93/SY = \$6,547.20

8.Using Contract Labor, Equipment and Material - Regrade Roadside Ditches. - Dimensions 5,280.00 LF @ \$2.00/LF = \$10,560.00

9.Using Contractor Labor, Equipment and Materials Provide Traffic Safety and Control  
Lump Sum = \$5,000.00

Summary Estimated Contract Base Cost \$204,912.53

Site 4 of 10

DAMAGED FACILITY:

Site 04

COUNTY: Hidalgo

LOCATION:

LATITUDE:

LONGITUDE:

26.22879  
26.22916

-97.94337  
-97.91909

Current Version:

Site # 4 Lat.: 26.22879 Long -97.94337 to Lat.: 26.22916 Long.: -97.91909 Mile12 North between Mile 2 W and 491 in Weslaco, TX 78596 . See attached pictures labelled as Site 04 photos.

DAMAGE DESCRIPTION AND DIMENSIONS:

Current Version:

DDD

During the Declared event period, standing floodwaters at a depth of 2 Ft. submerged this section of paved roadway for a period of longer than Three (3) Weeks. Water saturated the base material (Caliche) which caused the road wear surface (Asphalt) to severely undulate, rut and delaminate. To restore the road to pre event form and function, the Applicant will the need to replace the following:

- Caliche Base - Dimensions 7920 Ft. long by 28 Ft. Wide by 0.500 Ft. (6 inch) deep / 9 = 24,640 SY
- Asphalt Wear Surface - Dimensions 7920 Ft. long by 24 Ft. Wide by 0.167 Ft. (2 inch) deep / 9 = 21,120 SY

This road, while in fair condition is nonetheless recommended as eligible damages, the rationale for this recommendation is based on the FEMA PA Specialists' Inspection, assessment and observations of road sections along this road that were not submerged; these asphalt wear surfaces remained even planed, adhered to the base material; and, intact in spite of exhibiting signs of fair condition throughout. Had this damaged section of road not been submerged for a protracted period of time, the likelihood is it would have remained intact. However, The Subject Road is Listed on The TEXDOT Statewide Planning Map and designated as a Major Collector; Therefore, the damages at are Not recommended as eligible in accordance with 44 CFR §206.223 (a) (1) (2) (3).  
End of DDD

SCOPE OF WORK:

Current Version:

SOW

PS COMMENTS:

- A. Bid Tabulations from MJA Construction, LLC., and TEXAS CORDIA, Bid No. 2016-028-01-27-MSS, Jan. 2016
- B. TEXDOT Average Unit Bid Cost, Nov. 2015-Jan. 2016
- 1. 0105-6045
- 2. 5001-6001

3. 0260-6066

**Work to Be Completed**

The Applicant will follow its Procurement Policy and use public competitive bid solicitations to hire a Contractor to perform the repairs in accordance with the Scope of Work as detailed in this Sub Grant Application. The FEMA PA Specialist formulated this Damage Description, Scope of Work and Estimates with the cooperation and concurrence of the Applicants' Engineer and Assistant Director of Operations. The FEMA Specialist worked with the Applicants' Assistant Director of Operations and both parties (FEMA and Applicant), working together, inspected and evaluated all sites contained in this project. The FEMA Specialist Estimated the cost of the project using Recent Local Historical Costs for similar work using unit costs from Bid Tabulations from MJA Construction, LLC., and TEXAS CORDIA, Bid No. 2016-028-01-27-MSS, Jan. 2016 and TEXDOT Average Unit Bid Cost, Nov. 2015-Jan. 2016.

**Codes and Standards**

In 2006 The Applicant (Hidalgo County) adopted a new standard for the Construction and Repair of Roads (Class C Pavement). All Sites on this Project are in the jurisdictional responsibility of Hidalgo County Precinct 1. Hidalgo County Precinct 1 has adopted this new design and implemented it on all new construction and repair projects since it was codified in 2006 by the County Board of Commissioners.

The New Standard (enacted 2006) specifies an Eight (8) Inch depth for Caliche' base material on all paved roads. All of the roads that are contained in this project were built prior to the new standard; and, the existing Caliche' base depth is Six (6) Inches. To conform to the standard, the Applicant will specify that the successful Bidder (Contractor) will remove the existing damaged Two (2) Inch Deep Asphalt wear surface plus Four (4) Inch Deep of the existing Six (6) Inch Caliche' Base. The remaining Two (2) Inch deep Caliche will be treated with a 1.5 % Lime Treatment and Contractor will furnish and install another Six (6) Inch deep layer of Caliche' to bring the base to the New Standard Eight (8) Depth specification; Then, apply a Prime Coat and a Two (2) Inch deep Asphalt Wear Surface.

Therefore, since the proposed repairs and scope items meet the stated criteria items 1,2,3,4, and 5 for Codes and Standards as defined on page 19 of The FEMA Public Assistance Policy Digest, and 44 CFR §206.221(i) and §206.226(d) and Page 80 paragraph 2 of The FEMA Public Assistance Guide FEMA 322, However, This Scope of Work and associated estimated Costs are Not recommended as eligible in accordance with 44 CFR §206.228 (a) (ii) (iii) (2) (I) Because the subject Road is designated as a Major Collector on the TEXDOT Statewide Planning Map

**Scope Items**

1. Using Contract Labor, Equipment and Material - Excavate and haul away for reclamation 2 Inch deep Asphalt wear surface and 4 Inches of Caliche' base, Note base is 4 Ft. wider than wear surface. Treat existing sub base with 2% lime and compact to achieve proposed sub base. - Dimensions 7920 Ft. long by 28 Ft. Wide by 0.500 Ft. (6 inch) deep/ 9 =24,640 SY @ \$9.19/SY = \$226,441.60 See PS Comment B (1)
2. Using Contract Labor, Equipment and Material - Install Biaxial Geogrid #1200 material over Sub Base. - Dimensions 7920 Ft. long by 28 Ft. Wide by 0.000 Ft. (0 inch) deep / 9 = 24,640 SY @ \$1.31/SY = \$32,278.40 See PS Comment B (2)
3. Using Contract Labor, Equipment and Material - Furnish and Install 6" deep compacted Caliche Base Course. Note this Base Course is Four (4) Feet wider than the Asphalt Wear Course [Two (2) Feet wider on each side of the road] to provide a stable shoulder. - Dimensions 7920 Ft. long by 28 Ft. Wide by 0.500 Ft. (6 inch) deep/ 9 = 24,640 SY @ \$3.50/SY = \$86,240.00 See PS Comment A
4. Using Contract Labor, Equipment and Material - Furnish and Apply a 1.5 Percent Lime Treatment to the Caliche Base Material. - Dimensions 7920 Ft. long by 28 Ft. Wide by 0.000 Ft. (0 inch) deep/ 9 = 24,640 SY @ \$1.30/SY = \$32,032.00 See PS Comment B (3)
5. Using Contract Labor, Equipment and Material - Furnish and Apply a Prime Coat (MC-30) (0.2 GAL/SY) Asphaltic material on Caliche' Base surface - Dimensions 7920 Ft. long by 24 Ft. Wide by 0.000 Ft. (0 inch) deep/ 9 =21,120 SY @ \$1.00/SY = \$21,120.00 See PS Comment A
6. Using Contract Labor, Equipment and Material - Furnish, Install and Roll a 2 Inch deep HMAC TYPE "D" Asphalt wear surface. - Dimensions 7920 Ft. long by 24 Ft. Wide by 0.167 Ft. (2 inch) deep/ 9 =21,120 SY @ \$10.80/SY = \$228,096.00 See PS Comment A
7. Using Contract Labor, Equipment and Material - Install pavement markings and lines, - Dimensions 7920 Ft. long by 24 Ft. Wide by 0.000 Ft. (0 inch) deep/ 9 = 21,120 SY @ \$0.93/SY = \$19,641.60
8. Using Contract Labor, Equipment and Material - Regrade Roadside Ditches. - Dimensions 15840 LF @ \$2.00/LF = \$31,680.00
9. Using Contractor Labor, Equipment and Materials Provide Traffic Safety and Control  
Lump Sum = \$5,000.00

Summary Estimate Contract Base Cost \$682,529.60  
 Ineligible (\$682,529.60) TEXDOT Functional use as Major Collector  
 FEMA Funding for Contract Cost this Site \$0.00 Zero Dollars

Site 5 of 10

**DAMAGED FACILITY:**

Site 05

COUNTY: Hidalgo

**LOCATION:**

LATITUDE:  
26.25031  
26.25369

LONGITUDE:  
-97.96217  
-97.96222

**Current Version:**

Site # 5 Lat.: 26.25031 Long.: -97.96217 to Lat.: 26.25369 Long.: -97.96222 Villa Drive Mercedes, TX 78570 . See

attached pictures labelled as Site 05 photos.

**DAMAGE DESCRIPTION AND DIMENSIONS:**

Current Version:

DDD

During the Declared event period, standing floodwaters at a depth of 2 Ft. submerged this section of paved roadway for a period of longer than Three (3) Weeks. Water saturated the base material (Caliche) which caused the road wear surface (Asphalt) to severely undulate, rut and delaminate. To restore the road to pre event form and function, the Applicant will need to replace the following:

- Caliche Base - Dimensions 1190 Ft. long by 26 Ft. Wide by 0.500 Ft. (6 inch) deep / 9 = 3,437.78 SY
- Asphalt Wear Surface - Dimensions 1190 Ft. long by 26 Ft. Wide by 0.167 Ft. (2 inch) deep / 9 = 3,437.78 SY

This road, while in fair condition is nonetheless recommended as eligible damages, the rationale for this recommendation is based on the FEMA PA Specialists' Inspection, assessment and observations of road sections along this road that were not submerged; these asphalt wear surfaces remained even planed, adhered to the base material; and, intact in spite of exhibiting signs of fair condition throughout. Had this damaged section of road not been submerged for a protracted period of time, the likelihood is it would have remained intact. Therefore the damages are recommended as eligible in accordance with 44 CFR §206.223 (a) (1) (2) (3).

End of DDD

**SCOPE OF WORK:**

Current Version:

SOW

PS COMMENTS:

- A. Bid Tabulations from MJA Construction, LLC., and TEXAS CORDIA, Bid No. 2016-028-01-27-MSS, Jan. 2016
- B. TEXDOT Average Unit Bid Cost, Nov. 2015-Jan. 2016
  1. 0105-6045
  2. 5001-6001
  3. 0260-6066

**Work to Be Completed**

The Applicant will follow its Procurement Policy and use public competitive bid solicitations to hire a Contractor to perform the repairs in accordance with the Scope of Work as detailed in this Sub Grant Application. The FEMA PA Specialist formulated this Damage Description, Scope of Work and Estimates with the cooperation and concurrence of the Applicants' Engineer and Assistant Director of Operations. The FEMA Specialist worked with the Applicants' Assistant Director of Operations and both parties (FEMA and Applicant), working together, inspected and evaluated all sites contained in this project. The FEMA Specialist Estimated the cost of the project using Recent Local Historical Costs for similar work using unit costs from Bid Tabulations from MJA Construction, LLC., and TEXAS CORDIA, Bid No. 2016-028-01-27-MSS, Jan. 2016 and TEXDOT Average Unit Bid Cost, Nov. 2015-Jan. 2016.

**Codes and Standards**

In 2006 The Applicant (Hidalgo County) adopted a new standard for the Construction and Repair of Roads (Class C Pavement). All Sites on this Project are in the jurisdictional responsibility of Hidalgo County Precinct 1. Hidalgo County Precinct 1 has adopted this new design and implemented it on all new construction and repair projects since it was codified in 2006 by the County Board of Commissioners.

The New Standard (enacted 2006) specifies an Eight (8) Inch depth for Caliche' base material on all paved roads. All of the roads that are contained in this project were built prior to the new standard; and, the existing Caliche' base depth is Six (6) Inches. To conform to the standard, the Applicant will specify that the successful Bidder (Contractor) will remove the existing damaged Two (2) Inch Deep Asphalt wear surface plus Four (4) Inch Deep of the existing Six (6) Inch Caliche' Base. The remaining Two (2) Inch deep Caliche will be treated with a 1.5 % Lime Treatment and Contractor will furnish and install another Six (6) Inch deep layer of Caliche' to bring the base to the New Standard Eight (8) Depth specification; Then, apply a Prime Coat and a Two (2) Inch deep Asphalt Wear Surface.

Therefore, since the proposed repairs and scope items meet the stated criteria items 1,2,3,4,and 5 for Codes and Standards as defined on page 19 of The FEMA Public Assistance Policy Digest, and 44 CFR §206.221(i) and §206.226(d) and Page 80 paragraph 2 of The FEMA Public Assistance Guide FEMA 322, However, This Scope of Work and associated estimated Costs recommended as eligible in accordance with 44 CFR §206.228 (a) (ii) (iii) (2) (I)

**Scope Items**

- 1.Using Contract Labor, Equipment and Material - Excavate and haul away for reclamation 2 Inch deep Asphalt wear surface and 4 Inches of Caliche' base, Note base is 4 Ft. wider than wear surface. Treat existing sub base with 2% lime and compact to achieve proposed sub base. - Dimensions 1190 Ft. long by 28 Ft. Wide by 0.500 Ft. (6 inch) deep/ 9 =3,437.78 SY @ \$9.19/SY = \$31,593.18 See PS Comment B (1)
- 2.Using Contract Labor, Equipment and Material - Install Biaxial Geogrid #1200 material over Sub Base. - Dimensions 1190 Ft. long by 28 Ft. Wide by 0.000 Ft. (0 inch) deep / 9 = 3,437.78 SY @ \$1.31/SY = \$4,503.49 See PS Comment B (2)
- 3.Using Contract Labor, Equipment and Material - Furnish and Install 6" deep compacted Caliche Base Course. Note this Base Course is Four (4) Feet wider than the Asphalt Wear Course [Two (2) Feet wider on each side of the road] to provide a stable shoulder. - Dimensions 1190 Ft. long by 28 Ft. Wide by 0.500 Ft. (6 inch) deep/ 9 = 3,437.78 SY @ \$3.50/SY = \$12,032.22 See PS Comment A
- 4.Using Contract Labor, Equipment and Material - Furnish and Apply a 1.5 Percent Lime Treatment to the Caliche Base Material. - Dimensions 1190 Ft. long by 28 Ft. Wide by 0.000 Ft. (0 inch) deep/ 9 = 3,437.78 SY @ \$1.30/SY = \$4,469.11 See PS Comment B (3)
- 5.Using Contract Labor, Equipment and Material - Furnish and Apply a Prime Coat (MC-30) (0.2 GAL/SY) Asphaltic material on Caliche' Base surface - Dimensions 1190 Ft. long by 24 Ft. Wide by 0.000 Ft. (0 inch) deep/ 9 =3,437.78 SY @ \$1.00/SY = \$3,437.78 See PS Comment A

6.Using Contract Labor, Equipment and Material - Furnish, Install and Roll a 2 Inch deep HMAC TYPE "D" Asphalt wear surface. - Dimensions 1190 Ft. long by 24 Ft. Wide by 0.167 Ft. (2 inch) deep/ 9 =3,437.78 SY @ \$10.80/SY = \$37,128.00 See PS Comment A

7.Using Contract Labor, Equipment and Material - Install pavement markings and lines, - Dimensions 1190 Ft. long by 24 Ft. Wide by 0.000 Ft. (0 inch) deep/ 9 = 3,437.78 SY @ \$0.93/SY = \$3,197.13

8.Using Contractor Labor, Equipment and Materials Provide Traffic Safety and Control  
Lump Sum = \$5,000.00

Summary Estimate Contract Base Cost \$101,360.91

Site 6 of 10

**DAMAGED FACILITY:**

Site 06

COUNTY: Hidalgo

**LOCATION:**

**LATITUDE:**

**LONGITUDE:**

26.249928  
26.250072

-97.984678  
-97.977177

**Current Version:**

Site # 6 Lat.: 26.250072 Long.: -97.977177 to Lat.: 26.249928 Long.: -97.984678 Mile 13 1/2 between 4 West and FM 88 in Weslaco, TX 78570. See attached pictures labelled as Site 06 photos.

**DAMAGE DESCRIPTION AND DIMENSIONS:**

**Current Version:**

DDD

During the Declared event period, standing floodwaters at a depth of 2 Ft. submerged this section of paved roadway for a period of longer than Three (3) Weeks. Water saturated the base material (Caliche) which caused the road wear surface (Asphalt) to severely undulate, rut and delaminate. To restore the road to pre event form and function, the Applicant will the need to replace the following:

- Caliche Base - Dimensions 2640 Ft. long by 28 Ft. Wide by 0.500 Ft. (6 inch) deep / 9 = 8,213.33 SY
- Asphalt Wear Surface - Dimensions 2640 Ft. long by 24 Ft. Wide by 0.167 Ft. (2 inch) deep / 9 = 7,040.00 SY

This road, while in fair condition is nonetheless recommended as eligible damages, the rational for this recommendation is based on the FEMA PA Specialists' Inspection, assessment and observations of road sections along this road that were not submerged; these asphalt wear surfaces remained even planed, adhered to the base material; and, intact in spite of exhibiting signs of fair condition throughout. Had this damaged section of road not been submerged for a protracted period of time, the likelihood is it would have remained intact. Therefore the damages at are recommended as eligible in accordance with 44 CFR §206.223 (a) (1) (2) (3).  
End of DDD

**SCOPE OF WORK:**

**Current Version:**

SOW

**PS COMMENTS:**

- A. Bid Tabulations from MJA Construction, LLC., and TEXAS CORDIA, Bid No. 2016-028-01-27-MSS, Jan. 2016
- B. TEXDOT Average Unit Bid Cost, Nov. 2015-Jan. 2016
  1. 0105-6045
  2. 5001-6001
  3. 0260-6066

**Work to Be Completed**

The Applicant will follow its Procurement Policy and use public competitive bid solicitations to hire a Contractor to perform the repairs in accordance with the Scope of Work as detailed in this Sub Grant Application. The FEMA PA Specialist formulated this Damage Description, Scope of Work and Estimates with the cooperation and concurrence of the Applicants' Engineer and Assistant Director of Operations. The FEMA Specialist worked with the Applicants' Assistant Director of Operations and both parties (FEMA and Applicant), working together, inspected and evaluated all sites contained in this project. The FEMA Specialist Estimated the cost of the project using Recent Local Historical Costs for similar work using unit costs from Bid Tabulations from MJA Construction, LLC., and TEXAS CORDIA, Bid No. 2016-028-01-27-MSS, Jan. 2016 and TEXDOT Average Unit Bid Cost, Nov. 2015-Jan. 2016.

**Codes and Standards**

In 2006 The Applicant (Hidalgo County) adopted a new standard for the Construction and Repair of Roads (Class C Pavement). All Sites on this Project are in the jurisdictional responsibility of Hidalgo County Precinct 1. Hidalgo County Precinct 1 has adopted this new design and implemented it on all new construction and repair projects since it was codified in 2006 by the County Board of Commissioners.

The New Standard (enacted 2006) specifies an Eight (8) Inch depth for Caliche' base material on all paved roads. All of the roads that are contained in this project were built prior to the new standard; and, the existing Caliche' base depth is Six (6) Inches. To conform to the standard, the Applicant will specify that the successful Bidder (Contractor) will remove the existing damaged Two (2) Inch Deep Asphalt wear surface plus Four (4) Inch Deep of the existing Six (6) Inch Caliche' Base. The remaining Two (2) Inch deep Caliche will be treated with a 1.5 % Lime Treatment and Contractor will furnish and install another Six (6) Inch deep layer of Caliche' to bring the base to the New Standard Eight (8) Depth specification; Then, apply a Prime Coat and a Two (2) Inch deep Asphalt Wear Surface.

## Current Version:

SOW

## PS COMMENTS:

- A. Bid Tabulations from MJA Construction, LLC., and TEXAS CORDIA, Bid No. 2016-028-01-27-MSS, Jan. 2016  
 B. TEXDOT Average Unit Bid Cost, Nov. 2015-Jan. 2016
1. 0105-6045
  2. 5001-6001
  3. 0260-6066

## Work to Be Completed

The Applicant will follow its Procurement Policy and use public competitive bid solicitations to hire a Contractor to perform the repairs in accordance with the Scope of Work as detailed in this Sub Grant Application. The FEMA PA Specialist formulated this Damage Description, Scope of Work and Estimates with the cooperation and concurrence of the Applicants' Engineer and Assistant Director of Operations. The FEMA Specialist worked with the Applicants' Assistant Director of Operations and both parties (FEMA and Applicant), working together, inspected and evaluated all sites contained in this project. The FEMA Specialist Estimated the cost of the project using Recent Local Historical Costs for similar work using unit costs from Bid Tabulations from MJA Construction, LLC., and TEXAS CORDIA, Bid No. 2016-028-01-27-MSS, Jan. 2016 and TEXDOT Average Unit Bid Cost, Nov. 2015-Jan. 2016.

## Codes and Standards

In 2006 The Applicant (Hidalgo County) adopted a new standard for the Construction and Repair of Roads (Class C Pavement). All Sites on this Project are in the jurisdictional responsibility of Hidalgo County Precinct 1. Hidalgo County Precinct 1 has adopted this new design and implemented it on all new construction and repair projects since it was codified in 2006 by the County Board of Commissioners.

The New Standard (enacted 2006) specifies an Eight (8) Inch depth for Caliche' base material on all paved roads. All of the roads that are contained in this project were built prior to the new standard; and, the existing Caliche' base depth is Six (6) Inches. To conform to the standard, the Applicant will specify that the successful Bidder (Contractor) will remove the existing damaged Two (2) Inch Deep Asphalt wear surface plus Four (4) Inch Deep of the existing Six (6) Inch Caliche' Base. The remaining Two (2) Inch deep Caliche will be treated with a 1.5 % Lime Treatment and Contractor will furnish and install another Six (6) Inch deep layer of Caliche' to bring the base to the New Standard Eight (8) Depth specification; Then, apply a Prime Coat and a Two (2) Inch deep Asphalt Wear Surface.

Therefore, since the proposed repairs and scope items meet the stated criteria items 1,2,3,4,and 5 for Codes and Standards as defined on page 19 of The FEMA Public Assistance Policy Digest, and 44 CFR §206.221(i) and §206.226(d) and Page 80 paragraph 2 of The FEMA Public Assistance Guide FEMA 322, However, This Scope of Work and associated estimated Costs recommended as eligible in accordance with 44 CFR §206.228 (a) (ii) (iii) (2) (I)

## Scope Items

- 1.Using Contract Labor, Equipment and Material - Excavate and haul away for reclamation 2 Inch deep Asphalt wear surface and 4 Inches of Caliche' base, Note base is 4 Ft. wider than wear surface. Treat existing sub base with 2% lime and compact to achieve proposed sub base. - Dimensions 2640 Ft. long by 26 Ft. Wide by 0.500 Ft. (6 inch) deep/ 9 =7,626.67 SY @ \$9.19/SY = \$70,089.07 See PS Comment B (1)
- 2.Using Contract Labor, Equipment and Material - Install Biaxial Geogrid #1200 material over Sub Base. - Dimensions 2640 Ft. long by 26 Ft. Wide by 0.000 Ft. (0 inch) deep / 9 = 7,626.67 SY @ \$1.31/SY = \$9,990.93 See PS Comment B(2)
- 3.Using Contract Labor, Equipment and Material - Furnish and Install 6" deep compacted Caliche Base Course. Note this Base Course is Four (4) Feet wider than the Asphalt Wear Course [Two (2) Feet wider on each side of the road] to provide a stable shoulder. - Dimensions 2640 Ft. long by 26 Ft. Wide by 0.500 Ft. (6 inch) deep/ 9 = 7,626.67 SY @ \$3.50/SY = \$26,693.33 See PS Comment A
- 4.Using Contract Labor, Equipment and Material - Furnish and Apply a 1.5 Percent Lime Treatment to the Caliche Base Material. - Dimensions 2640 Ft. long by 26 Ft. Wide by 0.000 Ft. (0 inch) deep/ 9 = 7,626.67 SY @ \$1.30/SY = \$9,914.67 See PS Comment B (3)
- 5.Using Contract Labor, Equipment and Material - Furnish and Apply a Prime Coat (MC-30) (0.2 GAL/SY) Asphaltic material on Caliche' Base surface - Dimensions 2640 Ft. long by 22 Ft. Wide by 0.000 Ft. (0 inch) deep/ 9 =6,453.33 SY @ \$1.00/SY = \$6,453.33 See PS Comment A
- 6.Using Contract Labor, Equipment and Material - Furnish, Install and Roll a 2 Inch deep HMAc TYPE "D" Asphalt wear surface. - Dimensions 2640 Ft. long by 22 Ft. Wide by 0.167 Ft. (2 inch) deep/ 9 =6,453.33 SY @ \$10.80/SY = \$69,696.00 See PS Comment A
- 7.Using Contract Labor, Equipment and Material - Install pavement markings and lines, - Dimensions 2640 Ft. long by 22 Ft. Wide by 0.000 Ft. (0 inch) deep/ 9 = 6,453.33 SY @ \$0.93/SY = \$6,001.60
- 8.Using Contract Labor, Equipment and Material - Regrade Roadside Ditches. - Dimensions 5,280.00 LF @ \$2.00/LF = \$10,560.00
- 9.Using Contractor Labor, Equipment and Materials Provide Traffic Safety and Control  
Lump Sum = \$5,000.00

Summary Contract Base Cost \$214,398.93

Site 8 of 10

DAMAGED FACILITY:

COUNTY: Hidalgo

Therefore, since the proposed repairs and scope items meet the stated criteria items 1,2,3,4,and 5 for Codes and Standards as defined on page 19 of The FEMA Public Assistance Policy Digest, and 44 CFR §206.221(i) and §206.226(d) and Page 80 paragraph 2 of The FEMA Public Assistance Guide FEMA 322, However, This Scope of Work and associated estimated Costs recommended as eligible in accordance with 44 CFR §206.228 (a) (ii) (iii) (2) (I)

Scope Items

- 1.Using Contract Labor, Equipment and Material - Excavate and haul away for reclamation 2 Inch deep Asphalt wear surface and 4 Inches of Caliche' base, Note base is 4 Ft. wider than wear surface. Treat existing sub base with 2% lime and compact to achieve proposed sub base. - Dimensions 2640 Ft. long by 28 Ft. Wide by 0.500 Ft. (6 inch) deep/ 9 =8,213.33 SY @ \$9.19/SY = \$75,480.53 See PS Comment B (1)
- 2.Using Contract Labor, Equipment and Material - Install Biaxial Geogrid #1200 material over Sub Base. - Dimensions 2640 Ft. long by 28 Ft. Wide by 0.000 Ft. (0 inch) deep / 9 = 8,213.33 SY @ \$1.31/SY = \$10,759.47 See PS Comment B (2)
- 3.Using Contract Labor, Equipment and Material - Furnish and Install 6" deep compacted Caliche Base Course. Note this Base Course is Four (4) Feet wider than the Asphalt Wear Course [Two (2) Feet wider on each side of the road] to provide a stable shoulder. - Dimensions 2640 Ft. long by 28 Ft. Wide by 0.500 Ft. (6 inch) deep/ 9 = 8,213.33 SY @ \$3.50/SY = \$28,746.67 See PS Comment A
- 4.Using Contract Labor, Equipment and Material - Furnish and Apply a 1.5 Percent Lime Treatment to the Caliche Base Material. - Dimensions 2640 Ft. long by 28 Ft. Wide by 0.000 Ft. (0 inch) deep/ 9 = 8,213.33 SY @ \$1.30/SY = \$10,677.33 See PS Comment B (3)
- 5.Using Contract Labor, Equipment and Material - Furnish and Apply a Prime Coat (MC-30) (0.2 GAL/SY) Asphaltic material on Caliche' Base surface - Dimensions 2640 Ft. long by 24 Ft. Wide by 0.000 Ft. (0 inch) deep/ 9 =7,040.00 SY @ \$1.00/SY = \$7,040.00 See PS Comment A
- 6.Using Contract Labor, Equipment and Material - Furnish, Install and Roll a 2 Inch deep HMAC TYPE "D" Asphalt wear surface. - Dimensions 2640 Ft. long by 24 Ft. Wide by 0.167 Ft. (2 inch) deep/ 9 =7,040.00 SY @ \$10.80/SY = \$76,032.00 See PS Comment A
- 7.Using Contract Labor, Equipment and Material - Install pavement markings and lines, - Dimensions 2640 Ft. long by 24 Ft. Wide by 0.000 Ft. (0 inch) deep/ 9 = 7,040.00 SY @ \$0.93/SY = \$6,547.20
- 8.Using Contract Labor, Equipment and Material - Regrade Roadside Ditches. - Dimensions 5,280.00 LF @ \$2.00/LF = \$10,560.00
- 9.Using Contractor Labor, Equipment and Materials Provide Traffic Safety and Control  
Lump Sum = \$5,000.00

Summary Contract Base Cost \$230,843.20

Site 7 of 10

DAMAGED FACILITY:  Site 07	COUNTY: Hidalgo
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LOCATION:  Current Version: Site # 7 Lat.: 26.21414 Long.: -97.96007 to Lat.: 26.21376 Long.: -97.96796 Mile 11 Mercedes Tx 78570 See attached pictures labelled as Site 07 photos.	LATITUDE: 26.21376 26.21414	LONGITUDE: -97.96796 -97.96007
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DAMAGE DESCRIPTION AND DIMENSIONS:

Current Version:  
DDD  
During the Declared event period, standing floodwaters at a depth of 2 Ft. submerged this section of paved roadway for a period of longer than Three (3) Weeks. Water saturated the base material (Caliche) which caused the road wear surface (Asphalt) to severely undulate, rut and delaminate. To restore the road to pre event form and function, the Applicant will the need to replace the following:

- Caliche Base - Dimensions 2640 Ft. long by 26 Ft. Wide by 0.500 Ft. (6 inch) deep / 9 = 7,626.67 SY
- Asphalt Wear Surface - Dimensions 2640 Ft. long by 22 Ft. Wide by 0.167 Ft. (2 inch) deep / 9 = 6,453.33 SY

This road, while in fair condition is nonetheless recommended as eligible damages, the rational for this recommendation is based on the FEMA PA Specialists' Inspection, assessment and observations of road sections along this road that were not submerged; these asphalt wear surfaces remained even planed, adhered to the base material; and, intact in spite of exhibiting signs of fair condition throughout. Had this damaged section of road not been submerged for a protracted period of time, the likelihood is it would have remained intact. Therefore the damages at are recommended as eligible in accordance with 44 CFR §206.223 (a) (1) (2) (3).  
End of DDD

SCOPE OF WORK:

Site 08		
LOCATION:	LATITUDE: 26.20703 26.24334	LONGITUDE: 97.97546 -97.9761
Current Version: Site # 8 Lat.: 26.20703 Long.: -97.97546 to Lat.: 26.24334 Long.: -97.97610 Mile 4 West between 10 N and 15 N in Weslaco, TX 78596. See attached pictures labelled as Site 08 photos.		
DAMAGE DESCRIPTION AND DIMENSIONS:		
Current Version: DDD During the Declared event period, standing floodwaters at a depth of 2 Ft. submerged this section of paved roadway for a period of longer than Three (3) Weeks. Water saturated the base material (Caliche) which caused the road wear surface (Asphalt) to severely undulate, rut and delaminate. To restore the road to pre event form and function, the Applicant will need to replace the following:		
<ul style="list-style-type: none"> <li>• Caliche Base – Dimensions 13,200 Ft. long by 28 Ft. Wide by 0.500 Ft. (6 inch) deep / 9 = 41,066.67 SY</li> <li>• Asphalt Wear Surface - Dimensions 13,200 Ft. long by 24 Ft. Wide by 0.167 Ft. (2 inch) deep / 9 = 35,200 SY</li> </ul>		
This road, while in fair condition is nonetheless recommended as eligible damages, the rationale for this recommendation is based on the FEMA PA Specialists' Inspection, assessment and observations of road sections along this road that were not submerged; these asphalt wear surfaces remained even planed, adhered to the base material; and, intact in spite of exhibiting signs of fair condition throughout. Had this damaged section of road not been submerged for a protracted period of time, the likelihood is it would have remained intact. However, The Subject Road is Listed on The TEXDOT Statewide Planning Map and designated as a Major Collector; Therefore, the damages at are Not recommended as eligible in accordance with 44 CFR §206.223 (a) (1) (2) (3). End of DDD SOW		
SCOPE OF WORK:		
Current Version: SOW PS COMMENTS:		
<ol style="list-style-type: none"> <li>A. Bid Tabulations from MJA Construction, LLC., and TEXAS CORDIA, Bid No. 2016-028-01-27-MSS, Jan. 2016</li> <li>B. TEXDOT Average Unit Bid Cost, Nov. 2015-Jan. 2016 <ol style="list-style-type: none"> <li>1. 0105-6045</li> <li>2. 5001-6001</li> <li>3. 0260-6066</li> </ol> </li> </ol>		
Work to Be Completed The Applicant will follow its Procurement Policy and use public competitive bid solicitations to hire a Contractor to perform the repairs in accordance with the Scope of Work as detailed in this Sub Grant Application. The FEMA PA Specialist formulated this Damage Description, Scope of Work and Estimates with the cooperation and concurrence of the Applicants' Engineer and Assistant Director of Operations. The FEMA Specialist worked with the Applicants' Assistant Director of Operations and both parties (FEMA and Applicant), working together, inspected and evaluated all sites contained in this project. The FEMA Specialist Estimated the cost of the project using Recent Local Historical Costs for similar work using unit costs from Bid Tabulations from MJA Construction, LLC., and TEXAS CORDIA, Bid No. 2016-028-01-27-MSS, Jan. 2016 and TEXDOT Average Unit Bid Cost, Nov. 2015-Jan. 2016.		
Codes and Standards In 2006 The Applicant (Hidalgo County) adopted a new standard for the Construction and Repair of Roads (Class C Pavement). All Sites on this Project are in the jurisdictional responsibility of Hidalgo County Precinct 1. Hidalgo County Precinct 1 has adopted this new design and implemented it on all new construction and repair projects since it was codified in 2006 by the County Board of Commissioners. The New Standard (enacted 2006) specifies an Eight (8) Inch depth for Caliche' base material on all paved roads. All of the roads that are contained in this project were built prior to the new standard; and, the existing Caliche' base depth is Six (6) Inches. To conform to the standard, the Applicant will specify that the successful Bidder (Contractor) will remove the existing damaged Two (2) Inch Deep Asphalt wear surface plus Four (4) Inch Deep of the existing Six (6) Inch Caliche' Base. The remaining Two (2) Inch deep Caliche will be treated with a 1.5 % Lime Treatment and Contractor will furnish and install another Six (6) Inch deep layer of Caliche' to bring the base to the New Standard Eight (8) Depth specification; Then, apply a Prime Coat and a Two (2) Inch deep Asphalt Wear Surface. Therefore, since the proposed repairs and scope items meet the stated criteria items 1,2,3,4,and 5 for Codes and Standards as defined on page 19 of The FEMA Public Assistance Policy Digest, and 44 CFR §206.221(i) and §206.226(d) and Page 80 paragraph 2 of The FEMA Public Assistance Guide FEMA 322, However, This Scope of Work and associated estimated Costs are Not recommended as eligible in accordance with 44 CFR §206.228 (a) (ii) (iii) (2) (I) Because the subject Road is designated as a Major Collector on the TEXDOT Statewide Planning Map		
Scope Items 1.Using Contract Labor, Equipment and Material - Excavate and haul away for reclamation 2 Inch deep Asphalt wear surface and 4 Inches of Caliche' base, Note base is 4 Ft. wider than wear surface. Treat existing sub base with 2% lime and compact to achieve proposed sub base. - Dimensions 13,200 Ft. long by 28 Ft. Wide by 0.500 Ft. (6 inch) deep/ 9 =41,066.67 SY @ \$9.19/SY = \$377,402.67 See PS Comment B (1) 2.Using Contract Labor, Equipment and Material - Install Biaxial Geogrid #1200 material over Sub Base. - Dimensions 13,200 Ft. long by 28 Ft. Wide by 0.000 Ft. (0 inch) deep / 9 = 13,200 SY @ \$1.31/SY = \$53,797.33 See PS Comment B (2)		

- 3.Using Contract Labor, Equipment and Material - Furnish and Install 6" deep compacted Caliche Base Course. Note this Base Course is Four (4) Feet wider than the Asphalt Wear Course [Two (2) Feet wider on each side of the road] to provide a stable shoulder. - Dimensions 13,200 Ft. long by 28 Ft. Wide by 0.333 Ft. (6 inch) deep/ 9 = 41,066.67 SY @ \$3.50/SY = \$143,733.33 See PS Comment A
- 4.Using Contract Labor, Equipment and Material - Furnish and Apply a 1.5 Percent Lime Treatment to the Caliche Base Material. - Dimensions 13,200 Ft. long by 28 Ft. Wide by 0.000 Ft. (0 inch) deep/ 9 = 41,066.67 SY @ \$1.30/SY = \$53,386.67 See PS Comment B (3)
- 5.Using Contract Labor, Equipment and Material - Furnish and Apply a Prime Coat (MC-30) (0.2 GAL/SY) Asphaltic material on Caliche' Base surface - Dimensions 13,200 Ft. long by 24 Ft. Wide by 0.000 Ft. (0 inch) deep/ 9 =35,200 SY @ \$1.00/SY = \$35,200.00 See PS Comment A
- 6.Using Contract Labor, Equipment and Material - Furnish, Install and Roll a 2 Inch deep HMAC TYPE "D" Asphalt wear surface. - Dimensions 13,200 Ft. long by 24 Ft. Wide by 0.167 Ft. (2 inch) deep/ 9 =35,200 SY @ \$10.80/SY = \$380,160.00 See PS Comment A
- 7.Using Contract Labor, Equipment and Material - Install pavement markings and lines, - Dimensions 13,200 Ft. long by 24 Ft. Wide by 0.000 Ft. (0 inch) deep/ 9 = 35,200 SY @ \$0.93/SY = \$32,736.00
- 8.Using Contract Labor, Equipment and Material - Regrade Roadside Ditches. - Dimensions 26,400 LF @ \$2.00/LF = \$52,800.00
- 9.Using Contractor Labor, Equipment and Materials Provide Traffic Safety and Control  
Lump Sum = \$5,000.00

Summary Contract Base Cost \$1,134,216.00  
 Ineligible (\$1,134,216.00) TEXDOT Functional use as Major Collector  
 FEMA Funding for Contract Cost this Site \$0.00 Zero Dollars

Site 9 of 10

DAMAGED FACILITY:  Site 09	COUNTY: Hidalgo
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LOCATION:  Current Version: Site # 9 Lat.: 26.23317 Long.: -97.95974 to Lat.: 26.23582 Long.: -97.95659 Yvette Circle between FM 1015 and Mile 12 ½ North in Weslaco, TX 78596. See attached pictures labelled as Site 09 photos.	LATITUDE: 26.23317 26.23582	LONGITUDE: -97.95974 -97.95659
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**DAMAGE DESCRIPTION AND DIMENSIONS:**

Current Version:  
 DDD  
 During the Declared event period, standing floodwaters at a depth of 2 Ft. submerged this section of paved roadway for a period of longer than Three (3) Weeks. Water saturated the base material (Caliche) which caused the road wear surface (Asphalt) to severely undulate, rut and delaminate. To restore the road to pre event form and function, the Applicant will need to replace the following:

- Caliche Base - Dimensions 2102 Ft. long by 24 Ft. Wide by 0.500 Ft. (6 inch) deep / 9 = 5,605.33 SY
- Asphalt Wear Surface - Dimensions 2102 Ft. long by 24 Ft. Wide by 0.167 Ft. (2 inch) deep / 9 = 5605.33 SY

This road, while in fair condition is nonetheless recommended as eligible damages, the rationale for this recommendation is based on the FEMA PA Specialists' Inspection, assessment and observations of road sections along this road that were not submerged; these asphalt wear surfaces remained even planed, adhered to the base material; and, intact in spite of exhibiting signs of fair condition throughout. Had this damaged section of road not been submerged for a protracted period of time, the likelihood is it would have remained intact. Therefore the damages are recommended as eligible in accordance with 44 CFR §206.223 (a) (1) (2) (3).  
 End of DDD

**SCOPE OF WORK:**

Current Version:  
 SOW  
 PS COMMENTS:  
 A. Bid Tabulations from MJA Construction, LLC., and TEXAS CORDIA, Bid No. 2016-028-01-27-MSS, Jan. 2016  
 B. TEXDOT Average Unit Bid Cost, Nov. 2015-Jan. 2016  
 1. 0105-6045  
 2. 5001-6001  
 3. 0260-6066

Work to Be Completed  
 The Applicant will follow its Procurement Policy and use public competitive bid solicitations to hire a Contractor to perform the repairs in accordance with the Scope of Work as detailed in this Sub Grant Application. The FEMA PA Specialist formulated this Damage Description, Scope of Work and Estimates with the

cooperation and concurrence of the Applicants' Engineer and Assistant Director of Operations. The FEMA Specialist worked with the Applicants' Assistant Director of Operations and both parties (FEMA and Applicant), working together, inspected and evaluated all sites contained in this project. The FEMA Specialist Estimated the cost of the project using Recent Local Historical Costs for similar work using unit costs from Bid Tabulations from MJA Construction, LLC., and TEXAS CORDIA, Bid No. 2016-028-01-27-MSS, Jan. 2016 and TEXDOT Average Unit Bid Cost, Nov. 2015-Jan. 2016.

**Codes and Standards**

In 2006 The Applicant (Hidalgo County) adopted a new standard for the Construction and Repair of Roads (Class C Pavement). All Sites on this Project are in the jurisdictional responsibility of Hidalgo County Precinct 1. Hidalgo County Precinct 1 has adopted this new design and implemented it on all new construction and repair projects since it was codified in 2006 by the County Board of Commissioners.

The New Standard (enacted 2006) specifies an Eight (8) Inch depth for Caliche' base material on all paved roads. All of the roads that are contained in this project were built prior to the new standard; and, the existing Caliche' base depth is Six (6) Inches. To conform to the standard, the Applicant will specify that the successful Bidder (Contractor) will remove the existing damaged Two (2) Inch Deep Asphalt wear surface plus Four (4) Inch Deep of the existing Six (6) Inch Caliche' Base. The remaining Two (2) Inch deep Caliche will be treated with a 1.5 % Lime Treatment and Contractor will furnish and install another Six (6) Inch deep layer of Caliche' to bring the base to the New Standard Eight (8) Depth specification; Then, apply a Prime Coat and a Two (2) Inch deep Asphalt Wear Surface.

Therefore, since the proposed repairs and scope items meet the stated criteria items 1,2,3,4, and 5 for Codes and Standards as defined on page 19 of The FEMA Public Assistance Policy Digest, and 44 CFR §206.221(i) and §206.226(d) and Page 80 paragraph 2 of The FEMA Public Assistance Guide FEMA 322, However, This Scope of Work and associated estimated Costs recommended as eligible in accordance with 44 CFR §206.228 (a) (ii) (iii) (2) (I)

**Work to Be Completed**

**Scope Items**

1. Using Contract Labor, Equipment and Material - Excavate and haul away for reclamation 2 Inch deep Asphalt wear surface and 4 Inches of Caliche' base. Treat existing sub base with 2% lime and compact to achieve proposed sub base. - Dimensions 2102 Ft. long by 24 Ft. Wide by 0.500 Ft. (6 inch) deep/ 9 =5,605.33 SY @ \$9.19/SY = \$51,513.01 See PS Comment B (1)
2. Using Contract Labor, Equipment and Material - Install Biaxial Geogrid #1200 material over Sub Base. - Dimensions 2102 Ft. long by 24 Ft. Wide by 0.000 Ft. (0 inch) deep / 9 = 5,605.33 SY @ \$1.31/SY = \$7,342.99 See PS Comment B (2)
3. Using Contract Labor, Equipment and Material - Furnish and Install 6" deep compacted Caliche Base Course. - Dimensions 2102 Ft. long by 24 Ft. Wide by 0.500 Ft. (6 inch) deep/ 9 = 5,605.33 SY @ \$3.50/SY = \$19,618.67 See PS Comment A
4. Using Contract Labor, Equipment and Material - Furnish and Apply a 1.5 Percent Lime Treatment to the Caliche Base Material. - Dimensions 2102 Ft. long by 24 Ft. Wide by 0.000 Ft. (0 inch) deep/ 9 = 5,605.33 SY @ \$1.30/SY = \$7,286.93 See PS Comment B (3)
5. Using Contract Labor, Equipment and Material - Furnish and Apply a Prime Coat (MC-30) (0.2 GAL/SY) Asphaltic material on Caliche' Base surface - Dimensions 2102 Ft. long by 24 Ft. Wide by 0.000 Ft. (0 inch) deep/ 9 =5,605.33 SY @ \$1.00/SY = \$5,605.33 See PS Comment A
6. Using Contract Labor, Equipment and Material - Furnish, Install and Roll a 2 Inch deep HMAc TYPE "D" Asphalt wear surface. - Dimensions 2102 Ft. long by 24 Ft. Wide by 0.167 Ft. (2 inch) deep/ 9 =5,605.33 SY @ \$10.80/SY = \$60,537.60 See PS Comment A
7. Using Contract Labor, Equipment and Material - Install pavement markings and lines, - Dimensions 2102 Ft. long by 24 Ft. Wide by 0.000 Ft. (0 inch) deep/ 9 = 5605.33 SY @ \$0.93/SY = \$5,212.96
8. Using Contractor Labor, Equipment and Materials Provide Traffic Safety and Control  
Lump Sum = \$5,000.00

Summary Contract Base Cost \$162,117.49

Site 10 of 10

**DAMAGED FACILITY:**

Site 10

COUNTY: Hidalgo

**LOCATION:**

Current Version:  
Site # 10 Lat.: 26.18273 Long.: -98.05799 to Lat.: 26.20259 Long.: -98.05461 Goolie Rd. in Donna, TX 78537. See attached pictures labelled as Site 10 photos.

**LATITUDE:**

26.18273  
26.20259

**LONGITUDE:**

-98.05799  
-98.05461

**DAMAGE DESCRIPTION AND DIMENSIONS:**

**Current Version:**

DDD

During the Declared event period, standing floodwaters at a depth of 2 Ft. submerged this section of paved roadway for a period of longer than Three (3)

Weeks. Water saturated the base material (Caliche) which caused the road wear surface (Asphalt) to severely undulate, rut and delaminate. To restore the road to pre event form and function, the Applicant will the need to replace the following:

- Caliche Base - Dimensions 7,292 Ft. long by 28 Ft. Wide by 0.500 Ft. (6 inch) deep / 9 = 22,686.22 SY
- Asphalt Wear Surface - Dimensions 7,292 Ft. long by 24 Ft. Wide by 0.167 Ft. (2 inch) deep / 9 = 19,445.33 SY

This road, while in fair condition is nonetheless recommended as eligible damages, the rationale for this recommendation is based on the FEMA PA Specialists' inspection, assessment and observations of road sections along this road that were not submerged; these asphalt wear surfaces remained even planed, adhered to the base material; and, intact in spite of exhibiting signs of fair condition throughout. Had this damaged section of road not been submerged for a protracted period of time, the likelihood is it would have remained intact. Therefore the damages at are recommended as eligible in accordance with 44 CFR §206.223 (a) (1) (2) (3).

End of DDD

#### SCOPE OF WORK:

Current Version:

SOW

Work to Be Completed

PS COMMENTS:

- A. Bid Tabulations from MJA Construction, LLC., and TEXAS CORDIA, Bid No. 2016-028-01-27-MSS, Jan. 2016
- B. TEXDOT Average Unit Bid Cost, Nov. 2015-Jan. 2016
  1. 0105-6045
  2. 5001-6001
  3. 0260-6066

Work to Be Completed

The Applicant will follow its Procurement Policy and use public competitive bid solicitations to hire a Contractor to perform the repairs in accordance with the Scope of Work as detailed in this Sub Grant Application. The FEMA PA Specialist formulated this Damage Description, Scope of Work and Estimates with the cooperation and concurrence of the Applicants' Engineer and Assistant Director of Operations. The FEMA Specialist worked with the Applicants' Assistant Director of Operations and both parties (FEMA and Applicant), working together, inspected and evaluated all sites contained in this project. The FEMA Specialist Estimated the cost of the project using Recent Local Historical Costs for similar work using unit costs from Bid Tabulations from MJA Construction, LLC., and TEXAS CORDIA, Bid No. 2016-028-01-27-MSS, Jan. 2016 and TEXDOT Average Unit Bid Cost, Nov. 2015-Jan. 2016.

Codes and Standards

In 2006 The Applicant (Hidalgo County) adopted a new standard for the Construction and Repair of Roads (Class C Pavement). All Sites on this Project are in the jurisdictional responsibility of Hidalgo County Precinct 1. Hidalgo County Precinct 1 has adopted this new design and implemented it on all new construction and repair projects since it was codified in 2006 by the County Board of Commissioners.

The New Standard (enacted 2006) specifies an Eight (8) Inch depth for Caliche' base material on all paved roads. All of the roads that are contained in this project were built prior to the new standard; and, the existing Caliche' base depth is Six (6) Inches. To conform to the standard, the Applicant will specify that the successful Bidder (Contractor) will remove the existing damaged Two (2) Inch Deep Asphalt wear surface plus Four (4) Inch Deep of the existing Six (6) Inch Caliche' Base. The remaining Two (2) Inch deep Caliche will be treated with a 1.5 % Lime Treatment and Contractor will furnish and install another Six (6) Inch deep layer of Caliche' to bring the base to the New Standard Eight (8) Depth specification; Then, apply a Prime Coat and a Two (2) Inch deep Asphalt Wear Surface.

Therefore, since the proposed repairs and scope items meet the stated criteria items 1,2,3,4, and 5 for Codes and Standards as defined on page 19 of The FEMA Public Assistance Policy Digest, and 44 CFR §206.221(i) and §206.226(d) and Page 80 paragraph 2 of The FEMA Public Assistance Guide FEMA 322, However, This Scope of Work and associated estimated Costs recommended as eligible in accordance with 44 CFR §206.228 (a) (ii) (iii) (2) (I)

Scope Items

1. Using Contract Labor, Equipment and Material - Excavate and haul away for reclamation 2 Inch deep Asphalt wear surface and 4 Inches of Caliche' base. Note base is 4 Ft. wider than wear surface. Treat existing sub base with 2% lime and compact to achieve proposed sub base. - Dimensions 7,292 Ft. long by 28 Ft. Wide by 0.500 Ft. (6 inch) deep/ 9 = 22,686.22 SY @ \$9.19/SY = \$208,486.38 See PS Comment B (1)
2. Using Contract Labor, Equipment and Material - Install Biaxial Geogrid #1200 material over Sub Base. - Dimensions 7,292 Ft. long by 28 Ft. Wide by 0.000 Ft. (0 inch) deep / 9 = 22,686.22 SY @ \$1.31/SY = \$29,718.95 See PS Comment B (2)
3. Using Contract Labor, Equipment and Material - Furnish and Install 6" deep compacted Caliche Base Course. Note this Base Course is Four (4) Feet wider than the Asphalt Wear Course [Two (2) Feet wider on each side of the road] to provide a stable shoulder. - Dimensions 7,292 Ft. long by 28 Ft. Wide by 0.500 Ft. (6 inch) deep/ 9 = 22,686.22 SY @ \$3.50/SY = \$79,401.78 See PS Comment A
4. Using Contract Labor, Equipment and Material - Furnish and Apply a 1.5 Percent Lime Treatment to the Caliche Base Material. - Dimensions 7,292 Ft. long by 28 Ft. Wide by 0.000 Ft. (0 inch) deep/ 9 = 22,686.22 SY @ \$1.30/SY = \$29,492.09 See PS Comment B (3)
5. Using Contract Labor, Equipment and Material - Furnish and Apply a Prime Coat (MC-30) (0.2 GAL/SY) Asphaltic material on Caliche' Base surface - Dimensions 7,292 Ft. long by 24 Ft. Wide by 0.000 Ft. (0 inch) deep/ 9 = 19,445.33 SY @ \$1.00/SY = \$19,445.33 See PS Comment A
6. Using Contract Labor, Equipment and Material - Furnish, Install and Roll a 2 Inch deep HMAC TYPE "D" Asphalt wear surface. - Dimensions 7,292 Ft. long by 24 Ft. Wide by 0.167 Ft. (2 inch) deep/ 9 = 19,445.33 SY @ \$10.80/SY = \$210,009.60 See PS Comment A
7. Using Contract Labor, Equipment and Material - Install pavement markings and lines, - Dimensions 7,292 Ft. long by 24 Ft. Wide by 0.000 Ft. (0 inch) deep/ 9 = 19,445.33 SY @ \$0.93/SY = \$18,084.16
8. Using Contract Labor, Equipment and Material - Regrade Roadside Ditches. - Dimensions 14,584 LF @ \$2.00/LF = \$29,168.00

9.Using Contractor Labor, Equipment and Materials Provide Traffic Safety and Control  
Lump Sum = \$5,000.00

Summary Contract Base Cost \$628,806.29

**Project Notes:**

– **DIRECT ADMINISTRATIVE COSTS (ESTIMATED):** Direct Administrative Cost for work to be completed was estimated at \$5000.00 using 2015 Consumer Price Index Matrix-See Attachment. Direct Administrative Costs (Sub Grantee) 9901 has been estimated from the DAC Spreadsheet (Attached). These costs were calculated based on the total project value. The Sub Grantee has been notified that back-up documentation will be requested at close-out which supports all costs incurred for assistance in formulating or administering this public assistance grant.

– **FEDERAL AID ROADS:** Project Specialist has validated that none of the sites in this project are listed on the Federal Functional Classification System as Major Collectors, Minor Arterials, Principal Arterials, or Interstate, receiving federal funding.

– **ROAD PROJECTS (FIRMette Requirement):** Any road being repaired to pre-disaster design, function, capacity that does not include a hazard mitigation proposal, will not require a FIRMette. If any work to repair the road requires work outside the original footprint a FIRMette will be required.

– **SMALL PROJECTS, ANY CATAGORY:** For small projects FEMA pays based on the actual or estimated cost in order to expedite the funds (Digest pg. 121.) FEMA does not perform final inspections on small projects; however, the state must certify compliance. The applicant does have the ability to request a small project netting (appeal) if/when significant net small over-runs occur. This process will involve a review of all documentation for all small projects and an adjustment will be made for the total actual eligible dollars spent (over-run/under-run). A final Project Worksheet will then be required in EMMIE to capture all the eligible PA costs for the small projects.

– **SMALL PROJECT CHANGE REQUEST:** Change requests to small project worksheets will not be approved unless there is a change in the approved scope of work. This change must be approved prior to the construction. If after completion of all small projects the applicant incurs a significant net small project overrun, the applicant must file an appeal within 60 day of completion of the applicant's last small project. All requests must be submitted through the grantee.

- **WORK TO BE COMPLETED:** Upon completion, this site will be returned to its original design, function, and capacity within the original footprint. Acquiring all necessary Federal, State, and local permits is required for Federal Funding. Noncompliance with this requirement may jeopardize the receipt of Federal funds.

– **PROCUREMENT:** The Applicant was advised by FEMA PAC and/or Project Specialist that in the seeking of proposals and letting of contracts for eligible work, the Applicant must comply with its Local, State and/or Federal procurement laws, regulations, and procedures as required by 2 CFR 317-326.

– **RECORD RETENTION:** As described in 2 CFR 200.33 Sub Grantee must maintain all work-related records for a period of three (3) years from Sub Grantee closure (final payment), all records relative this project worksheet are subject to examination and audit by the State, FEMA and the Comptroller General of the United States and must reflect work related to disaster specific costs.

– **PERMITS:** Federal Funding is contingent upon acquiring all necessary Federal, State and Local permits. Noncompliance with this requirement may jeopardize the receipt of federal funds. The applicant is responsible for obtaining all required permits prior to the commencement of work.

– **ENVIRONMENTAL AND HISTORIC PRESERVATION:** Applicant must comply with all applicable environmental and historic preservation laws. Federal funding is contingent upon acquiring all necessary Federal, State and Local permits. Noncompliance with this requirement may jeopardize the receipt of federal funds.

– **CHANGES TO SCOPE OF WORK DESCRIBED IN THIS PW/SA (SUBGRANT APPLICATION):** The applicant shall comply with all applicable codes and standards in the completion of eligible work to repair or replace damaged public facilities. Any change to the approved scope of work on a Project Worksheet (PW/SA) must be reported and approved before work begins. Failure to report changes may jeopardize Federal and State funding. In the case of a change in scope of work, the applicant should immediately notify Wendell Allen, Section Administrator, Texas Department of Emergency Management prior to starting work.

– **INSURANCE REVIEW:** The applicant is aware that all projects are subject to an insurance review as stated in 44 C.F.R. Sections 206.252 and 206.253. If applicable, an insurance determination will be made either as anticipated proceeds or actual proceeds in accordance with the applicant's insurance policy which may affect the total amount of the project. Approval of this project may result in an obtain /maintain insurance requirement. The Sub Grantee must comply with insurance reviewer terms and conditions upon receipt of sub-grant from the State.

– **COST BASIS FOR Contract LABOR, EQUIPMENT AND MATERIALS:** Costs used to formulate this project were based on: [select all that apply and include data dates]

- Unit Costs provided by Applicant – Recent Bid Tabulations for similar work

- FEMA cost codes – For Force Account Equipment

– **AUDIT STATEMENT:** All documentation related to this project worksheet is subject to audit and must reflect disaster – related work and project – specific cost. The applicant has been advised of responsibility to maintain supporting documentation (records). The type of records to be maintained is specified in FEMA policy 2 CFR Subpart F, Audit Requirements. Records must be maintained for three 3 years from the date the last project was completed or from the date final payment was received, whichever is later.

– **75% FEDERAL FUNDING:** In accordance with FEMA policy 9523.9 and current disaster declaration determinations, this project worksheet will be funded with the Federal Cost share at 75% of all eligible costs.

– By accepting this grant the Applicant to the best of their ability acknowledges that all damages described within this Sub-grant Application and all associated costs being claimed were a direct result of the declared event, and in connection with the incident period of 05/04/2015 thru 06/22/2015 with the exception of requests for alternate or improved projects.

End of Project

Does the Scope of Work change the pre-disaster conditions at the site? Yes  No

Special Considerations included? Yes  No

Hazard Mitigation proposal included? Yes <input checked="" type="checkbox"/> No		Is there insurance coverage on this facility? Yes <input checked="" type="checkbox"/> No			
PROJECT COST					
ITEM	CODE	NARRATIVE	QUANTITY/UNIT	UNIT PRICE	COST
		*** Version 0 ***			
		Work To Be Completed			
1	9888	Site 1 Site 01 Work To Be Completed	1/LS	\$ 241,808.00	\$ 241,808.00
2	9888	Site 2 Site 02 Work To Be Completed	1/LS	\$ 268,825.92	\$ 268,825.92
3	9888	Site 3 Site 03 Work To Be Completed	1/LS	\$ 204,912.53	\$ 204,912.53
4	9888	Site 4 Site 04 Work To Be Completed	1/LS	\$ 0.00	\$ 0.00
5	9888	Site 5 Site 05 Work To Be Completed	1/LS	\$ 101,360.91	\$ 101,360.91
6	9888	Site 6 Site 06 Work To Be Completed	1/LS	\$ 230,843.20	\$ 230,843.20
7	9888	Site 7 Site 07 Work To Be Completed	1/LS	\$ 214,398.93	\$ 214,398.93
8	9888	Site 8 Site 08 Work To Be Completed	1/LS	\$ 0.00	\$ 0.00
9	9888	Site 9 Site 09 Work To Be Completed	1/LS	\$ 162,117.49	\$ 162,117.49
10	9888	Site 10 Site 10 Work To Be Completed	1/LS	\$ 628,806.29	\$ 628,806.29
		Other			
11	9901	Direct Administrative Costs (Subgrantee)	1/LS	\$ 5,500.00	\$ 5,500.00
				<b>TOTAL COST</b>	\$ 2,058,573.27
PREPARED BY LARRY L GLADDEN <i>AGG</i>		TITLE Project Specialist / PALL		SIGNATURE <i>[Signature]</i>	
* APPLICANT REP. RICARDO SALDANA		TITLE EMERGENCY MGR		SIGNATURE <i>[Signature]</i>	

\* ALTERNATE POINT OF CONTACT ON RPA.