

**BID PROPOSAL
AND
SPECIFICATIONS**

FOR

**2023 MIDLAND COUNTY PAVEMENT
MAINTENANCE PROJECT**

WTC No. 55875

WTC2023-001

COUNTY JUDGE

Terry Johnson

COMMISSIONER PRECINCT 1

Scott Ramsey

COMMISSIONER PRECINCT 2

Jeff Somers

COMMISSIONER PRECINCT 3

Luis Sanchez

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ENGINEERS | SURVEYORS

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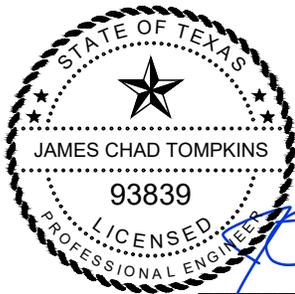
Texas Registered Engineering Firm F-2746

Texas Registered Surveyor Firm #100792-00

MIDLAND COUNTY, TEXAS

2023 MIDLAND COUNTY PAVEMENT MAINTENACE PROJECT

MAY, 2023



WTC No. 55875

J. Tompkins Date: 7/17/25
James C. Tompkins, P.E., R.P.L.S.



405 SW 1st Street • Andrews, TX 79714 • (432) 523-2181
Texas Registered Engineering Firm F-2746
Texas Registered Surveyor Firm #100792-00

BID PROPOSAL

Bidder agrees to perform all work for **2023 Midland Pavement Maintenance Project** described in the Specifications and shown on the Plans, for the following unit prices.

WTC No. 55875

Item No.	Description	Unit	Estimated Quantity	Bid Unit	Bid Amount
1	Mobilization and demobilization	LS	1	\$	\$
2	Edge repairs	LF	87,127	\$	\$
3	Edge sealing	LF	201,771	\$	\$
4	Shoulder improvements	LF	201,771	\$	\$
5	Pothole repairs	SY	1,464	\$	\$
6	Asphalt (AC-20-5TR)	GAL	161,800	\$	\$
7	Coated aggregate (Grade 4)	CY	4,045	\$	\$
8	Coated aggregate (For owner use)	CY	200	\$	\$
9	Project site video	LS	1	\$	\$
TOTAL BASE BID ITEMS:					\$

**OWNER - MIDLAND COUNTY
ENGINEER - WTC, INC.**

GENERAL NOTES AND MODIFICATIONS AND CLARIFICATIONS TO THE STANDARD SPECIFICATIONS

DESCRIPTION OF WORK

THIS PROJECT INCLUDES THE FOLLOWING MAJOR ITEMS OF WORK:

1. **EDGE REPAIRS:** THIS ITEM SHALL INCLUDE ALL MATERIALS, EQUIPMENT, AND LABOR TO REPAIR THE EDGE OF THE EXISTING ROAD AS FOLLOWS: SAW CUTTING THE DAMAGED EDGE OF PAVEMENT TO PROVIDE A CLEAN LINE (AT LEAST 4-INCHES INTO STABLE ASPHALT AND BASE MATERIAL); REMOVING UNSUITABLE MATERIAL; PROCESSING AND COMPACTING THE SUBBASE; PROVIDING, PLACING, PROCESSING, COMPACTING, AND FINISHING THE BASE MATERIAL; APPLYING TACK COAT TO FINISHED BASE MATERIAL; AND PLACING 3-INCHES OF HOT-MIX ASPHALT (TYPE D) WITH A STANDARD TAPERED EDGE. THE NEW PAVEMENT (BASE AND ASPHALT) EDGE SHALL MATCH THE EXISTING PAVEMENT WIDTH ON EITHER END OF REPAIR SECTION AND SHALL HAVE A SMOOTH TRANSITION FROM ONE END OF THE REPAIR SECTION TO THE OTHER. IF THE EXISTING PAVEMENT WIDTH IS LESS THAN 22', THE PAVEMENT SHALL BE WIDENED TO 22'.
2. **EDGE SEALING:** THIS ITEM SHALL INCLUDE ALL MATERIALS, EQUIPMENT, AND LABOR TO SEAL THE EDGE OF THE REPAIRED PAVEMENT EDGE AND THE NEWLY INSTALLED SHOULDER AS FOLLOWS: EDGE SEALING 12-INCHES OF THE ASPHALT SURFACE AND 6-INCHES ON THE PRIMED SHOULDER WITH CMS-2P (OR EQUIVALENT) APPLIED AT A RATE OF .20 GAL/SY WITH AN ASPHALT DISTRIBUTOR (BASE SHALL BE PRIMED WITH MC-30 AS SHOWN IN ITEM 340 IN SPECIFICATIONS BELOW). A SIGN SHALL BE PLACED ALONG THE ROAD WARNING VEHICLES TO STAY OFF THE "WET" OR UNCURED ASPHALT FOR 24-HOURS. THIS ITEM SHALL BE COMPLETED AFTER EDGE REPAIRS AND SHOULDER WORK, BUT BEFORE SEAL COAT IS PLACED. WAIT A MINIMUM OF 48 HOURS AFTER EDGE SEALING BEFORE PLACING SEAL COAT.
3. **SHOULDER WORK:** THIS ITEM SHALL INCLUDE ALL MATERIALS, EQUIPMENT, AND LABOR TO INSTALL NEW SHOULDERS ALONG EXISTING MIDLAND COUNTY ROADS AS FOLLOWS: REMOVING UNSUITABLE MATERIAL; PROCESSING AND COMPACTING 6-INCHES OF SUBGRADE MATERIAL; PROVIDING, PLACING, PROCESSING, COMPACTING, AND FINISHING 6-INCHES OF BASE MATERIAL FROM THE ROADWAY PAVEMENT EDGE A DISTANCE OF 8-FEET FROM THE ROADWAY EDGE, EXCEPT IN LOCATIONS SHOWN ON THE PLANS. THE SLOPE OF THE SURFACE OF THE TOP OF BASE SHALL BE FLATTER THAN 6:1 (AT LEAST 20:1 TO PROVIDE ADEQUATE DRAINAGE AWAY FROM PAVEMENT EDGE) AND SHALL TIE BACK INTO EXISTING GROUND SURFACE AT A SLOPE OF 6:1 OR FLATTER. THIS ITEM SHALL BE DONE PRIOR TO EDGE SEALING AND SEAL COAT PLACEMENT.
4. **POTHOLE REPAIRS:** THIS ITEM SHALL INCLUDE ALL MATERIALS, EQUIPMENT, AND LABOR NECESSARY TO REPAIR POTHoles ALONG VARIOUS ROADWAYS IN MIDLAND COUNTY AS SHOWN ON THE PLANS AS FOLLOWS: SAWCUTTING AN AREA (SIZE AND LOCATIONS AS SHOWN ON THE PLANS) AND REMOVING UNSUITABLE MATERIAL; PROCESSING AND COMPACTING THE SUBBASE; PROVIDING, PLACING, PROCESSING, COMPACTING, AND FINISHING BASE MATERIAL; INSTALLING A TACK COAT; AND PLACING 3-INCHES OF HOT-MIX ASPHALT FINISHED SMOOTH WITH THE EXISTING ROAD SURFACE. THIS WORK SHALL BE DONE BEFORE THE SEAL COAT IS PLACED.
5. **SEAL COAT:** THIS ITEM INCLUDES ALL MATERIALS, EQUIPMENT, AND LABOR NECESSARY TO INSTALL A SINGLE-COURSE SEAL COAT AS SPECIFIED BELOW ON THE FULL WIDTH OF THE REPAIRED ROAD SURFACE.

6. MATERIAL FOR USE BY MIDLAND COUNTY ROAD & BRIDGE: THE CONTRACTOR WILL PROCURE, HAUL, AND STOCKPILE GRADE 4 AGGREGATE AT A LOCATION (OR LOCATIONS) PROVIDED BY MIDLAND COUNTY FOR USE BY THE MIDLAND COUNTY ROAD & BRIDGE DEPARTMENT.
7. PROJECT SITE VIDEO: CONSTRUCTOR SHALL VIDEO THE PROJECT AREA AND SHALL PROVIDE VIDEO TO ENGINEER PRIOR TO COMMENCING WORK TO DOCUMENT CONDITION OF DRIVEWAYS, MAILBOXES, FENCES, AND OTHER IMPROVEMENTS IN OR NEAR THE RIGHT-OF-WAY. PRIOR TO ANY CONSTRUCTION, THE PROJECT AREA (INCLUDING EVERYTHING WITHIN THE RIGHT-OF-WAY) SHALL BE VIDEO TAPED BY THE CONTRACTOR TO SHOW EXISTING CONDITIONS OF ROADWAY, ADJACENT PROPERTIES, STRUCTURES, MAILBOXES, DRIVEWAYS, FENCES, UTILITIES, LAND AND OTHER IMPROVEMENTS. THE VIDEO SHALL BE CONVERTED TO AVI FORMAT AND TWO COPIES OF THE VIDEO FILES SHALL BE DELIVERED TO THE ENGINEER ON USB MEMORY DEVICES. ADDITIONALLY, THE VIDEO SHALL BE AVAILABLE FOR DOWNLOAD FROM A SECURE FTP LINK THAT SHALL BE EMAILED TO THE ENGINEER. THE ENGINEER WILL REVIEW THE VIDEO FOR COMPLETENESS AND QUALITY. SHOULD THE ENGINEER DETERMINE THAT THE VIDEO IS NOT SATISFACTORY, THE CONTRACTOR WILL BE REQUIRED TO RE-VIDEO THE PROJECT SITE. PAYMENT FOR THE VIDEOTAPING SHALL BE FOR THE LUMP SUM PRICE FOR THE ENTIRE PROJECT AS SHOWN IN THE BID PROPOSAL.

THE SEVEN MAJOR ITEMS OF WORK WILL BE COMPLETED ACCORDING TO THE PLANS AND DETAILS, AS WELL AS, THE TXDOT STANDARD SPECIFICATIONS, AS MODIFIED/CLARIFIED BELOW.

SPECIFICATIONS

THE WORK SHALL BE CONSTRUCTED UNDER THE GENERAL GUIDELINES AS SET FORTH BY THE TEXAS DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATION FOR CONSTRUCTION AND MAINTENANCE OF HIGHWAYS, STREETS, AND BRIDGES, 2014 EDITION. THE OWNER AND ENGINEER RESERVE THE RIGHT TO HAVE FINAL INTERPRETATION AUTHORITY OF SPECIFICATIONS IN THE EVENT THAT A CONFLICT MAY ARISE. HOWEVER, IN THE EVENT THAT CONFLICT/ DISPUTE MAY ARISE, THE CONTRACT DOCUMENTS AND GENERAL NOTES SUPERSEDE THE TXDOT 2014 STANDARD SPECIFICATION.

ITEM 5: CONTROL OF THE WORK

IN THE EVENT A NEW OR REVISED TRAFFIC CONTROL PLAN IS SUBMITTED TO THE ENGINEER FOR CONSIDERATION, PREPARE AND SUBMIT REVISED TRAFFIC CONTROL PLAN A MINIMUM OF 10 DAYS PRIOR TO ANTICIPATED IMPLEMENTATION TO ALLOW FOR REVIEW BY THE ENGINEER AND OWNER. MOST OF THIS PROJECT INVOLVES MAINTENANCE WORK ON EXISTING PAVEMENT SURFACES, HOWEVER, WHERE NEW PAVEMENT IS BEING CONSTRUCTED OR WHERE THE PAVEMENT SURFACE IS BEING WIDENED OR SHOULDERS ARE BEING INSTALLED, ESTABLISH A TRUE AND CORRECT ALIGNMENT WITH A TRANSIT OR BY OTHER APPROVED METHODS. USE METHOD C FOR CONSTRUCTION SURVEYING. IN THE EVENT THE FINISHED SURFACE DOES NOT CONFORM TO THE TYPICAL SECTIONS OR DOES NOT RIDE TO THE SATISFACTION OF THE ENGINEER, REWORK THE UNSATISFACTORY AREA TO THE LIMITS NECESSARY AND PLACE CONSTRUCTION STAKES AT CLOSER INTERVALS AS DIRECTED. PROVIDE THE STAKING, PERSONNEL AND EQUIPMENT NECESSARY TO ATTAIN A SATISFACTORY RIDING SURFACE. IN CURVES AND SUPERELEVATION SECTIONS, PLACE CONSTRUCTION STAKES AT INTERVALS OF 50 FEET

ALONG THE CENTERLINE AND AT THE CROWNLINE AND QUARTER POINTS OF THE TYPICAL SECTIONS. IN THE EVENT A SATISFACTORY RIDING SURFACE CANNOT BE CONSTRUCTED, PLACE ADDITIONAL STAKING AS DIRECTED. ADDITIONAL BENCHMARK INFORMATION CAN BE OBTAINED AT THE ENGINEER'S OFFICE.

ITEM 8: PROSECUTION AND PROGRESS

TIME CHARGES FOR THIS PROJECT WILL BE CALENDAR DAYS. THE TIME ESTABLISHED FOR THE COMPLETION OF ALL WORK COVERED BY THIS CONTRACT IS 120 DAYS (4 MONTHS). DAYS WILL BE CHARGED SUNDAY THROUGH SATURDAY, INCLUDING ALL HOLIDAYS, REGARDLESS OF WEATHER CONDITIONS, MATERIAL AVAILABILITY, OR OTHER CONDITIONS NOT UNDER THE CONTROL OF THE CONTRACTOR. SUNDAY WORK WILL BE LIMITED TO ITEMS NOT REQUIRING INSPECTION, QUALITY ASSURANCE TESTING OR OVERSIGHT OF ANY KIND. LIQUIDATED DAMAGES DAILY RATE = \$500/ CALENDAR DAY BEYOND CONTRACT TIME LIMIT.

ITEM 9: MEASUREMENT AND PAYMENT

ALL QUANTITIES OF WORK SHALL BE PAID ON THE BASIS OF THE PLANS QUANTITY MEASUREMENT, PER ITEM 9, UNLESS THE ITEM IS SUBSIDIARY TO ANOTHER ITEM, IN WHICH CASE IT WILL NOT BE PAID FOR DIRECTLY. SPECIFIC EXCEPTIONS TO PLAN QUANTITY ITEMS ARE AS FOLLOWS:

ITEM 316 SEAL COAT - AGGREGATE FOR SURFACE TREATMENT; ITEM 316 SEAL COAT - ASPHALTIC CEMENT FOR SURFACE TREATMENT; ITEM 310 PRIME COAT.

PAYMENT FOR MATERIAL ON HAND WILL BE MADE AS OUTLINED IN ITEM 9 OF THE TXDOT 2014 STANDARD SPECIFICATION.

ITEM 100: PREPARING RIGHT-OF-WAY (R.O.W.)

IT IS THE INTENT ON THE PLANS TO PREPARE ONLY THAT PORTION OF THE RIGHT-OF-WAY NECESSARY FOR CONSTRUCTION. CONTRACTOR IS NOT TO DISTURB ANY AREA BEYOND THE ROW UNLESS IT IS ALLOWED IN WRITING BY THE ENGINEER, OR IS A DESIGNATED STAGING AREA. DO NOT DISTURB NATURAL VEGETATION AND TREES WHEREVER POSSIBLE. CONTRACTOR IS TO COMPLETE THE PREPARATION OF THE RIGHT-OF-WAY BASED ON THE CONDITION AT TIME OF BIDDING AND ADJUST BID PRICES ACCORDINGLY.

ITEM 132: EMBANKMENT

FOR ALL MATERIAL WITH A PLASTICITY INDEX OF LESS THAN 20, USE TEST METHOD TEX-113-E IN LIEU OF TEST METHOD TEX-114-E FOR DETERMINING DENSITY AND MOISTURE REQUIREMENTS. MATERIAL QUALITY TEST REQUIREMENTS MAY BE WAIVED FOR MATERIAL EXCAVATED FROM THE R.O.W. ON THIS PROJECT AND UTILIZED IN EMBANKMENT. PAYMENT FOR THIS ITEM SHALL BE MEASURED BY THE CUBIC YARD FROM THE EXISTING GROUND LINE TO ITS FINAL POSITION (VOLUME COMPUTATIONS). THIS IS A PLAN QUANTITY MEASUREMENT ITEM AND SHALL BE CONSIDERED SUBSIDIARY TO BID ITEMS IN THE BID PROPOSAL.

MOISTURE/ COMPACTION REQUIREMENTS

ITEM	DESCRIPTION	DENSITY	MOISTURE
132	EMBANKMENT (TOP 6" = "SUBGRADE")	98% MINIMUM	± 2% OF OPTIMUM
132	EMBANKMENT (ANYTHING BELOW SUBGRADE)	95% MINIMUM	± 2% OF OPTIMUM
247	FLEX BASE (COMPLETE IN PLACE) (TY A GR 4)	100% MINIMUM	OPTIMUM TO -2% OF OPTIMUM

ITEM 247: FLEXIBLE BASE

GRADING REQUIREMENTS

ITEM	DESCRIPTION	PERCENT RETAINED- SIEVES				SOIL CONSTANTS		WET BALL MILL MAX
		1-3/4"	7/8"	3/8"	#40	L.L. MAX	P.I. MAX	
247	TYPE A GR 4	0-3	10-35	20-55	65-85	40	12	45

THE MAXIMUM INCREASE IN MATERIAL PASSING THE NUMBER 40 SIEVE RESULTING FROM THE WET BALL MILL TEST SHALL NOT EXCEED 20%.

THE ESTIMATED QUANTITY OF FLEXIBLE BASE IS FOR POTHOLE PATCHING, EDGE REPAIRS, AND SHOULDER WORK. FLEXIBLE BASE WILL BE PROCESSED AT OR ABOVE OPTIMUM MOISTURE CONTENT AND ALLOWED TO CURE IN ITS FINAL POSITION FOR 48 HOURS PRIOR TO THE APPLICATION OF PRIME COAT, TACK COAT, HOT-MIX ASPHALT, AND SEAL COAT SURFACE TREATMENT. THE MEASURED AREA FOR PAYMENT IS REFLECTED IN THE TYPICAL DETAILS AND THE LENGTH OR AREA OF SUCH REPAIRS. THE SIDE-SLOPE TAPERS ARE NOT INCLUDED IN THE MEASUREMENTS FOR THE FLEXIBLE BASE BUT ARE CONSIDERED SUBSIDIARY TO THIS ITEM.

ITEM 204: SPRINKLING

APPLY WATER FOR DUST CONTROL, EARTHWORK, OR BASE CONSTRUCTION. THE SCOPE OF THIS WORK WILL NOT BE PAID FOR DIRECTLY, BUT WILL BE CONSIDERED SUBSIDIARY TO THE VARIOUS BID ITEMS.

ITEM 300: ASPHALTS, OILS, AND EMULSIONS

PRIME AND TACK COAT WILL BE MC-30. ASPHALT FOR SEAL COAT WILL BE AC-20-5TR. RATES WILL BE AS SHOWN IN ITEM 316 SURFACE TREATMENTS AND ITEM 340 DENSE-GRADED HOT-MIX ASPHALT (SMALL QUANTITY) AND ITEM 351 FLEXIBLE PAVEMENT STRUCTURE REPAIR.

ITEM 302: AGGREGATES FOR SURFACE TREATMENTS

AGGREGATE WILL BE SAC-B AND GRADE 4 FOR SEAL COAT. COAT AGGREGATE WITH 1.0 PERCENT BY WEIGHT OF RESIDUAL BITUMEN. USE AN UNMODIFIED ASPHALT WITH A MINIMUM PERFORMANCE GRADE OF 64-16 (PG 64-16) (AS DEFINED IN ITEM 300) OR BETTER FOR AGGREGATE PRECOATING.

ITEM 310: PRIME COAT

PRIME COAT WILL ONLY BE APPLIED WHEN THE AMBIENT TEMPERATURE IS ABOVE 60°F OR WHEN THE AMBIENT TEMPERATURE IS ABOVE 50°F AND RISING.

ITEM 316: SURFACE TREATMENTS

APPLY ONE COURSE SURFACE TREATMENT. PLACE A STRING LINE OR OTHER SUITABLE MARKINGS WHERE NEEDED TO ASSURE SMOOTH NEAT LINES, OR AS NEEDED. RATES ARE SHOWN ON THE PLANS. ASPHALT

CEMENT WILL ONLY BE APPLIED BETWEEN JUNE 1st AND SEPTEMBER 1st UNLESS APPROVED BY THE ENGINEER. AMBIENT TEMPERATURE FOR APPLICATION OF POLYMER MODIFIED ASPHALTS WILL BE 70°F AND RISING BUT WILL NOT BE APPLIED WHEN THE TEMPERATURE IS 80°F AND FALLING. DO NOT APPLY WHEN THE SURFACE TEMPERATURE IS BELOW 70°F.

GENERAL APPLICATION RATES FOR ASPHALT	
TYPE	APPLICATION RATE
MC-30 (PRIME)	0.25 GAL/SY
AC-20-5TR (SEAL COAT)	0.40 GAL/SY

GENERAL APPLICATION RATES FOR AGGREGATE	
TYPE	APPLICATION RATE
AGGR (TY PB GR 4 SAC-B)	1/100 (CY/SY)

THESE RATES SERVE AS GENERAL GUIDELINES AND MAY BE ADJUSTED AT THE DISCRETION OF THE ENGINEER AS CONDITIONS WARRANT.

ITEM 340: DENSE GRADED HOT-MIX ASPHALT (SMALL QUANTITY)

HOT-MIX ASPHALT FOR POTHOLE REPAIRS AND PAVEMENT EDGE REPAIRS TO BE TYPE D IN ACCORDANCE WITH THIS ITEM.

ITEM 351: FLEXIBLE PAVEMENT STRUCTURE REPAIR

POTHOLE AND PAVEMENT EDGE REPAIRS TO BE COMPLETED IN ACCORDANCE WITH THIS ITEM.

ITEM 502: BARRICADES, SIGNS, AND TRAFFIC HANDLING

SEE THE TRAFFIC CONTROL AND SEQUENCE OF WORK PLAN FOR ALL REQUIREMENTS FOR ITEM 502 INCLUDING TRAFFIC CONTROL AND SEQUENCE OF WORK PLANS. THE COST FOR ALL ITEMS OUTLINED AND INCLUDED IN ITEM 502 SHALL BE CONSIDERED SUBSIDIARY TO BID ITEMS.

ITEM 666: RETROREFLECTORIZED PAVMENT MARKING

ROADS TO BE STRIPED (THIS ITEM TO BE COMPLETED BY OWNER – CONTRACTOR NOT RESPONSIBLE FOR THIS ITEM OF WORK) WITH TYPE II TRAFFIC PAINT. ROADS TO RECEIVE STRIPING INCLUDE NORTH COUNTY ROAD 1130, SOUTH COUNTY ROAD 1130, AND EAST COUNTY ROAD 120. STRIPING TO INCLUDE A CENTER STRIPE AND EDGE STRIPE IN ACCORDANCE WITH THE TEXAS MANUAL FOR UNIFORM TRAFFIC CONTROL DEVICES (TMUTCD). LANE WIDTH TO BE 12-FOOT.