

# MIDLAND COUNTY, TEXAS 2023 MIDLAND PAVEMENT MAINTENANCE PROJECT

**OWNER:**  
MIDLAND COUNTY,  
MIDLAND, TX

**ENGINEER:**  
WTC, INC.  
405 SW 1st STREET  
ANDREWS, TX. 79714  
MAIN: (432) 523-2181

**UTILITY RELOCATION NOTICE:**

CONTRACTOR SHALL CONTACT THE APPROPRIATE UTILITY COMPANY TO COORDINATE THE RELOCATION OF ANY UTILITY THAT IS FOUND TO BE IN CONFLICT WITH THESE CONSTRUCTION DOCUMENTS.



**PROJECT LOCATION MAP**  
NOT TO SCALE

**SHEET INDEX**

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- C-1.0 GENERAL NOTES
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- C-3.0 WEST COUNTY ROADS 56 & 58
- C-4.0 NORTH COUNTY ROADS 1284 & 1283
- C-5.0 WEST COUNTY ROAD 124/SOUTH COUNTY ROAD 1311
- C-6.0 SOUTH COUNTY ROAD 1310
- C-7.0 SOUTH COUNTY ROAD 1293
- C-8.0 WEST COUNTY ROAD 128
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- C-24.0 SHOULDER WORK TCP
- C-25.0 SEALCOAT TCP I
- C-26.0 SEALCOAT TCP II

PREPARED BY



ENGINEERS | SURVEYORS

WEST TEXAS CONSULTANTS, INC.

ENGINEERS PLANNERS SURVEYORS

405 S.W. 1st. Street

Andrews, TX 79714

(432) 523-2181

TEXAS REGISTERED ENGINEERING FIRM F-2746

TEXAS REGISTERED SURVEYOR FIRM #100792-00

**MAY 2023**

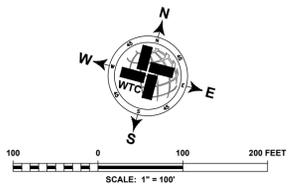
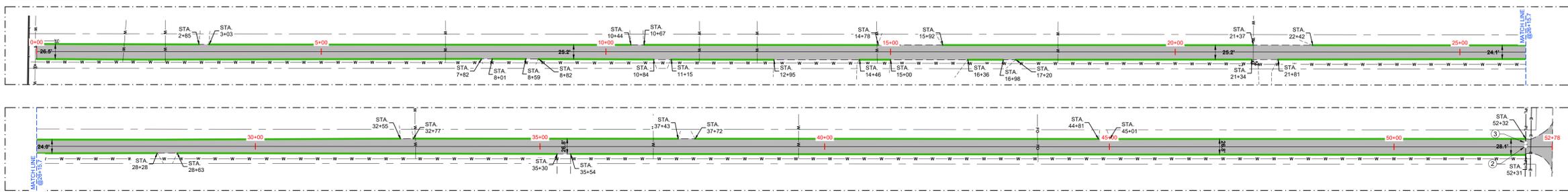


THE SEAL APPEARING ON THIS DOCUMENT WAS AUTHORIZED BY JAMES C. TOMPKINS, P. E. 93839 ON JUNE, 05 2023

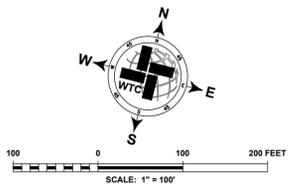
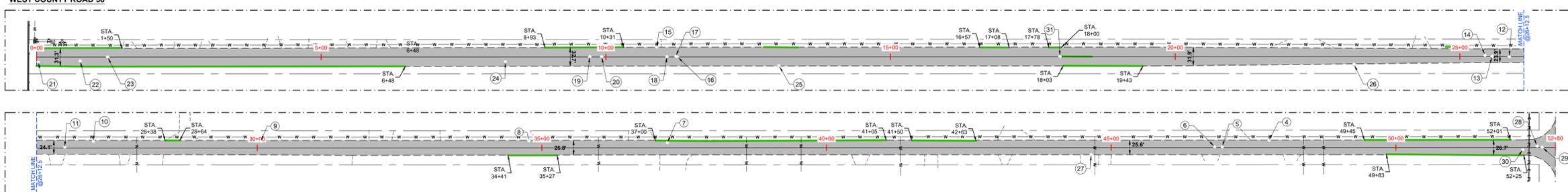




WEST COUNTY ROAD 56



WEST COUNTY ROAD 58



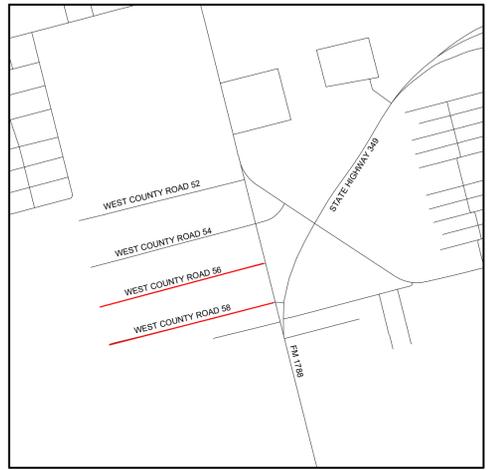
WEST COUNTY ROAD 56 QUANTITIES			
ITEM #	ITEM	QTY.	UNIT
1	SEAL COAT (APPROX.)	15,160	SY
2	POTHOLE REPAIR (SEE TABLE D)	2	EACH
3	PAVEMENT EDGE REPAIR	9,650	LF
4	SHOULDER IMPROVEMENTS	10,060	LF

WEST COUNTY ROAD 58 QUANTITIES			
ITEM #	ITEM	QTY.	UNIT
1	SEAL COAT (APPROX.)	16,830	SY
2	POTHOLE REPAIR (SEE TABLE D)	28	EACH
3	PAVEMENT EDGE REPAIR	2,420	LF
4	SHOULDER IMPROVEMENTS	9,510	LF

PAVEMENT PATCHING LOCATIONS (D)			
Point #	Northing	Easting	Description
2	10698995.98	1698038.92	xPH 2X2
3	10699001.52	1698037.60	xPH 2X2
4	10697672.09	1697903.13	xPH 2X2
5	10697640.81	1697826.38	xPH 1X1
6	10697637.36	1697813.45	xPH 1X1
7	10697406.54	1696880.28	xPH 2X2
8	10697349.66	1696643.65	xPH 30X2
9	10697232.36	1696187.80	xPH 2X2
10	10697159.70	1695902.61	xPH 2X2
11	10697137.32	1695856.45	xPH 2X2

PAVEMENT PATCHING LOCATIONS (D)			
Point #	Northing	Easting	Description
12	10697116.85	1695784.03	xPH 2X2
13	10697110.04	1695754.61	xPH 5X2
14	10697108.87	1695742.25	xPH 3X3
15	10696762.78	1694329.10	xPH 10X2
16	10696755.58	1694368.13	xPH 2X2
17	10696755.86	1694365.39	xPH 2X2
18	10696751.20	1694350.58	xPH 1X1
19	10696717.74	1694219.12	xPH 2X2
20	10696722.77	1694239.31	xPH 1X10
21	10696468.99	1693282.77	xPH 3X3

PAVEMENT PATCHING LOCATIONS (D)			
Point #	Northing	Easting	Description
22	10696488.84	1693353.86	xPH 3X3
23	10696507.70	1693398.59	xPH 2X2
24	10696672.32	1694077.72	xPH 5X2
25	10696784.64	1694544.91	xPH 5X1
26	10697036.48	1695523.18	xPH 10X15
27	10697570.31	1697606.73	xPH 2X2
28	10697778.82	1698361.81	xPH 1X1
29	10697778.70	1698371.21	xPH 1X1
30	10697766.42	1698339.02	xPH 2X2
31	10696922.29	1695019.33	xPH 60X2



VICINITY MAP  
N.T.S.

- NOTES:**
- CONTRACTOR TO AVOID DAMAGING EXISTING DRIVEWAYS MAILBOXES AND OTHER IMPROVEMENTS. LOCATIONS SHOWN ABOVE ARE APPROXIMATE AND CONTRACTOR SHOULD VERIFY LOCATIONS PRIOR TO BIDDING AND CONSTRUCTION.
  - CONTRACTOR SHALL REPAIR ANY DAMAGE DONE TO EXISTING DRIVEWAYS OR OTHER IMPROVEMENTS AT NO COST TO OWNER.
  - VIDEO OF EXISTING SITE CONDITION IS REQUIRED PRIOR TO CONSTRUCTION START.
  - SEE SHEET C-23.0 FOR DETAILS



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TOLL-FREE OSHA RULE 1926.651  
REQUIRES PREVIOUS  
NOTIFICATION TEXAS ONE CALL  
SYSTEM

**LEGEND**

- OBSERVED RIGHT OF WAY LINE
- - - - - EXISTING END OF PAVEMENT
- - - - - EXISTING FENCE
- - - - - EXISTING WATER LINE
- - - - - EXISTING BURIED PIPELINE
- - - - - EXISTING OVERHEAD ELECTRIC LINE
- - - - - EXISTING FIBER OPTIC/TELEPHONE LINE
- - - - - PROPERTY LINE
- EXISTING WATER METER
- ⊕ EXISTING WATER VALVE
- ⊕ EXISTING FIRE HYDRANT
- ▭ EXISTING PAVEMENT ROAD
- ▨ AREA TO BE REPAIRED
- ▨ EDGE OF PAVEMENT TO BE REPAIRED
- MATCH LINE
- POT HOLE LOCATION



REVISION DESCRIPTION	REVISION	DATE

WEST COUNTY ROAD 56 AND 58 FROM DEAD END TO 1788					
2023 MIDLAND PAVEMENT MAINTENANCE PROJECT					
DESIGN	DRAWN	DATE	PROJECT NO.	SCALE	PAGE:
J.C.T.	OV	5/24/23	55875	N/A	C-3.0























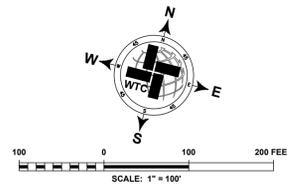
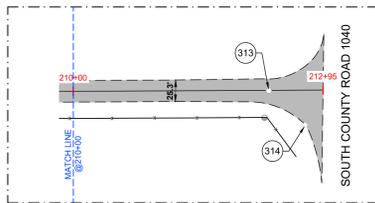
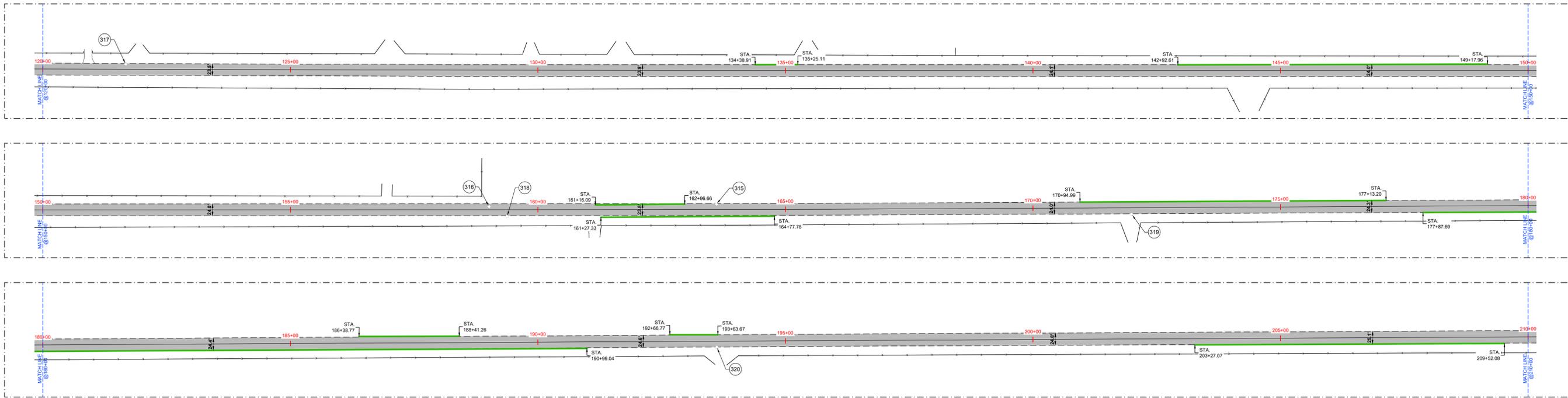






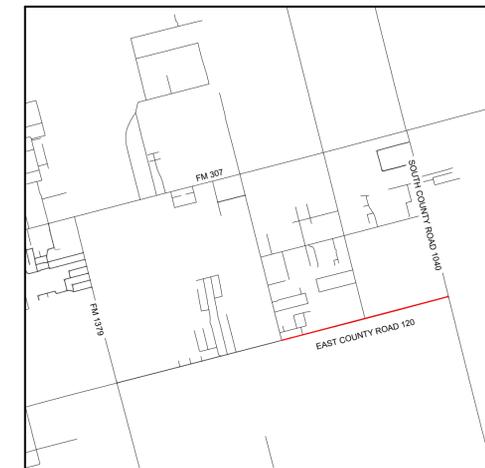


EAST COUNTY ROAD 120



PAVEMENT PATCHING LOCATIONS (D)			
Point #	Northing	Easting	Description
313	10699702.41	1835582.90	xPH 1X1
314	10699674.01	1835634.64	xPH 5X2
315	10698466.45	1830872.48	xPH 3X1
316	10698346.25	1830429.07	xPH 15X15
317	10697414.94	1826813.26	xPH 30X2
318	10698336.88	1830469.50	xPH 15X15
319	10698657.37	1831689.07	xPH 30X3
320	10699212.38	1833779.10	xPH 5X3

ECR 120 ROAD QUANTITIES			
ITEM #	ITEM	QTY.	UNIT
1	SEAL COAT (APPROX.)	59,950	SY
2	POT HOLE REPAIR (SEE TABLE D)	19	EACH
3	PAVEMENT EDGE REPAIR	14,520	LF
4	SHOULDER IMPROVEMENTS	42,200	LF



VICINITY MAP  
N.T.S.

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SYSTEM

**LEGEND**

- OBSERVED RIGHT OF WAY LINE
- - - EXISTING END OF PAVEMENT
- - - EXISTING FENCE
- - - EXISTING WATER LINE
- - - EXISTING BURIED PIPELINE
- - - EXISTING OVERHEAD ELECTRIC LINE
- - - EXISTING FIBER OPTIC/TELEPHONE LINE
- - - PROPERTY LINE
- EXISTING WATER METER
- EXISTING WATER VALVE
- EXISTING FIRE HYDRANT
- EXISTING PAVEMENT ROAD
- ▨ AREA TO BE REPAIRED
- EDGE OF PAVEMENT TO BE REPAIRED
- - - MATCH LINE
- POT HOLE LOCATION



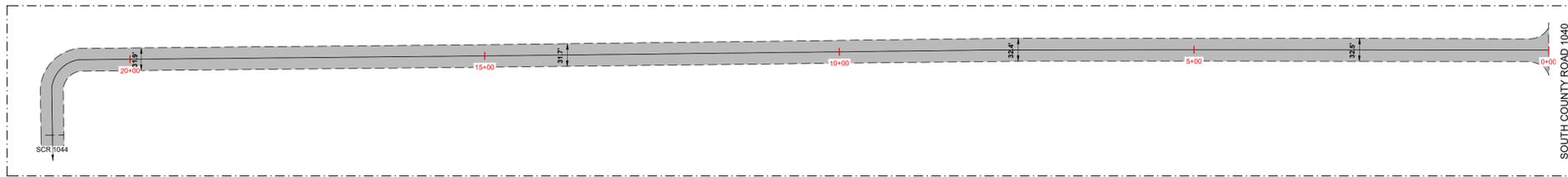
REVISION DESCRIPTION	REVISION	DATE

EAST COUNTY ROAD 120  
FROM STA 120+00 TO SCR 1040

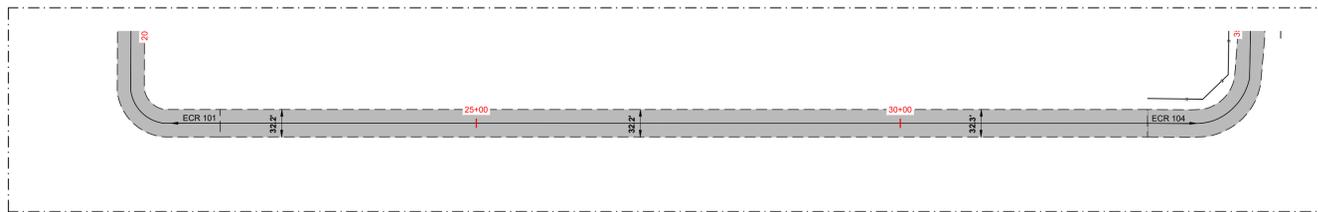
2023 MIDLAND PAVEMENT  
MAINTENANCE PROJECT

DESIGN	DRAWN	DATE	PROJECT NO.	SCALE	PAGE:
J.C.T.	IR	5/24/23	55875	N/A	C-19.0

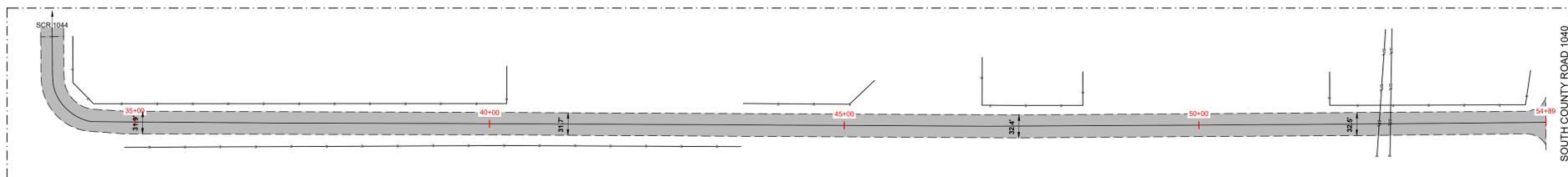
EAST COUNTY ROAD 101



SOUTH COUNTY ROAD 1044



EAST COUNTY ROAD 104



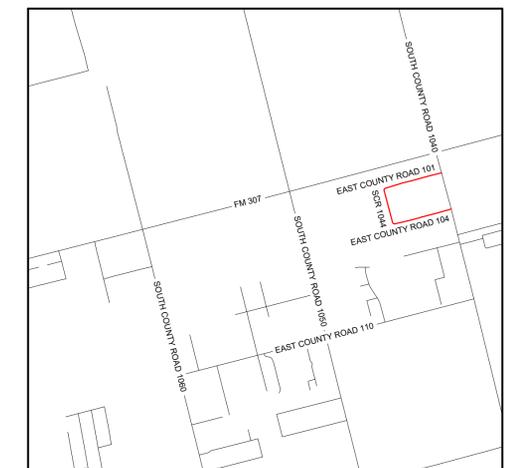
EAST COUNTY ROAD 101 QUANTITIES			
ITEM #	ITEM	QTY.	UNIT
1	SEAL COAT (APROX.)	7,850	SY
2	SHOULDER IMPROVEMENT	4,200	LF

SOUTH COUNTY ROAD 1044 QUANTITIES			
ITEM #	ITEM	QTY.	UNIT
1	SEAL COAT (APROX.)	3,920	SY
2	SHOULDER IMPROVEMENT	2,190	LF

EAST COUNTY ROAD 104 QUANTITIES			
ITEM #	ITEM	QTY.	UNIT
1	SEAL COAT (APROX.)	7,850	SY
2	SHOULDER IMPROVEMENT	4,420	LF

NOTES:

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SYSTEM



LEGEND

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- - - EXISTING FENCE
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- - - EXISTING BURIED PIPELINE
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- - - EXISTING FIBER OPTIC/TELEPHONE LINE
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- ◻ EXISTING WATER METER
- ◻ EXISTING WATER VALVE
- ◻ EXISTING FIRE HYDRANT
- ▨ EXISTING PAVEMENT ROAD
- ▨ AREA TO BE REPAIRED
- ▨ EDGE OF PAVEMENT TO BE REPAIRED
- MATCH LINE
- POT HOLE LOCATION



REVISION DESCRIPTION	REVISION	DATE

EAST COUNTY ROAD 101 FROM SCR 1063 TO SCR 1060  
EAST COUNTY ROAD 104 FROM SCR 1044 TO SCR 1040  
SOUTH COUNTY ROAD 1044 FROM ECR 104 TO ECR 101

**2023 MIDLAND PAVEMENT MAINTENANCE PROJECT**

DESIGN	DRAWN	DATE	PROJECT NO.	SCALE	PAGE:
J.C.T.	IR	5/24/23	55875	N/A	C-20.0

PLANT: 20230523.DWG; PROJECT: 20230523.MIDLAND.PAVING; 2023; 04; 1; LAYOUT; 196; ECR103-200223; 250; 196; 04/20/23

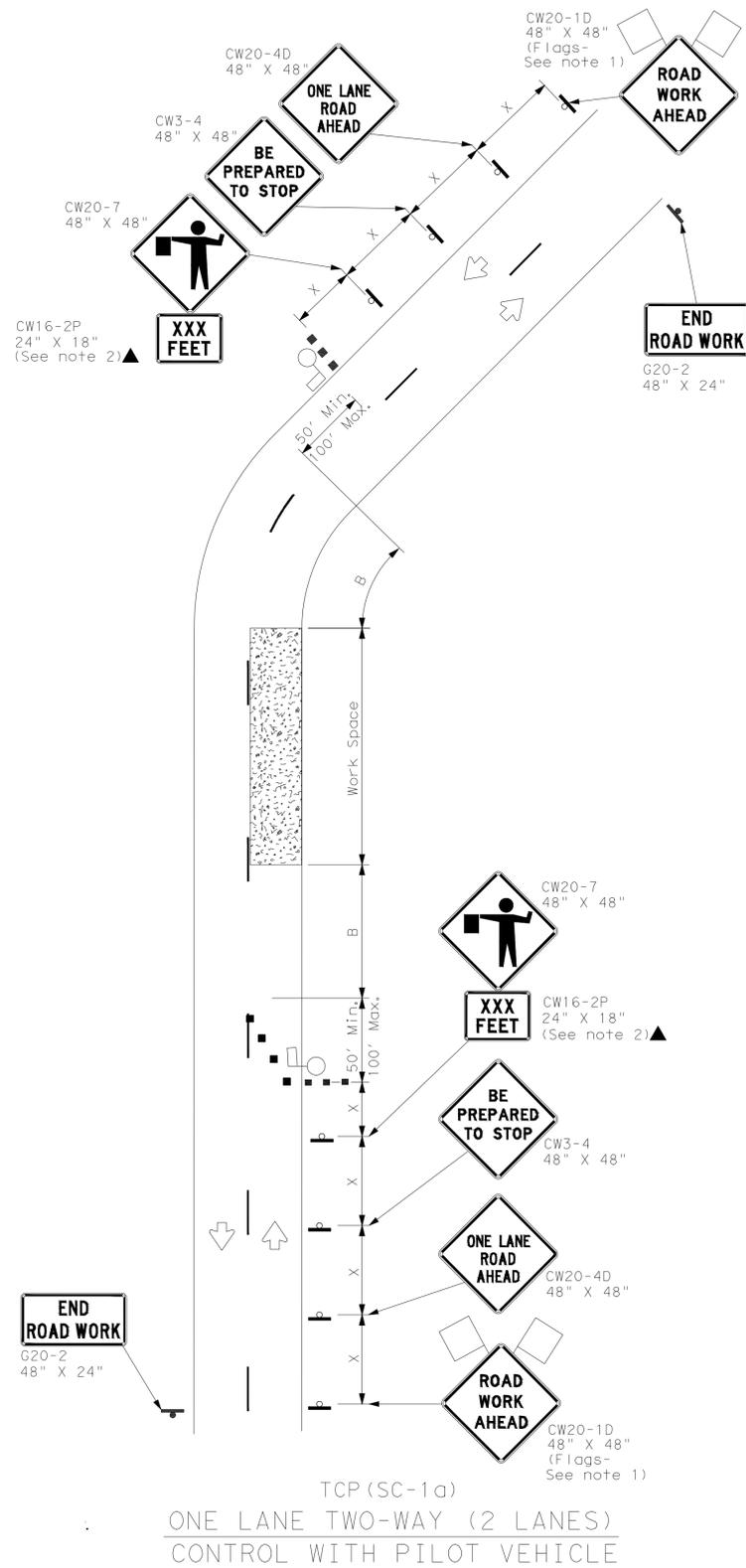




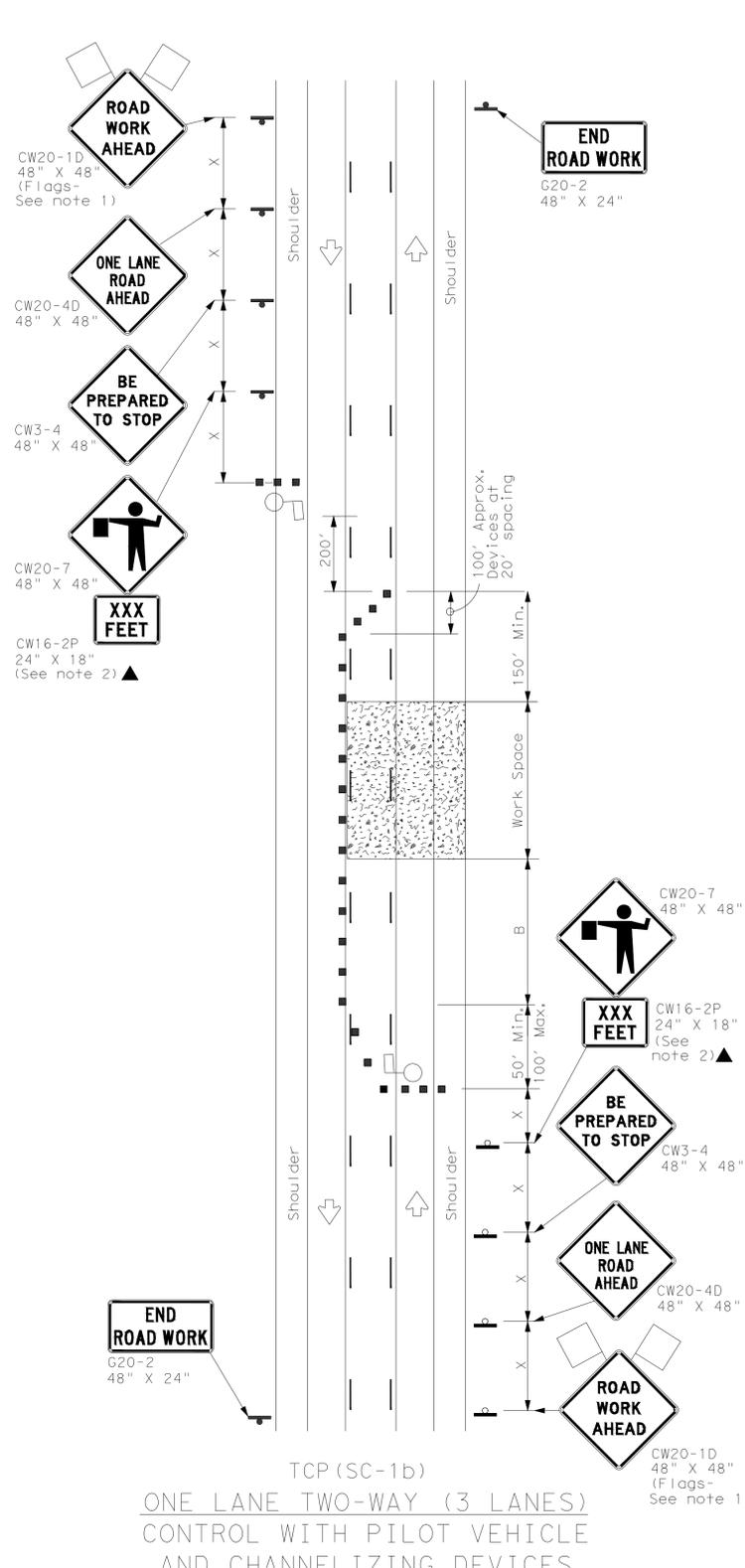








TCP (SC-1a)  
ONE LANE TWO-WAY (2 LANES)  
CONTROL WITH PILOT VEHICLE



TCP (SC-1b)  
ONE LANE TWO-WAY (3 LANES)  
CONTROL WITH PILOT VEHICLE  
AND CHANNELIZING DEVICES

LEGEND			
	Type 3 Barricade		Channelizing Devices
	Heavy Work Vehicle		Truck Mounted Attenuator (TMA)
	Trailer Mounted Flashing Arrow Board		Portable Changeable Message Sign (PCMS)
	Sign		Traffic Flow
	Flag		Flagger

Posted Speed *	Formula	Minimum Desirable Taper Lengths * X			Suggested Maximum Spacing of Channelizing Devices		Minimum Sign Spacing "x" Distance	Suggested Longitudinal Buffer Space "B"	Stopping Sight Distance
		10' Offset	11' Offset	12' Offset	On a Taper	On a Tangent			
30	L = $\frac{WS^2}{60}$	150'	165'	180'	30'	60'	120'	90'	200'
35		205'	225'	245'	35'	70'	160'	120'	250'
40		265'	295'	320'	40'	80'	240'	155'	305'
45	L = WS	450'	495'	540'	45'	90'	320'	195'	360'
50		500'	550'	600'	50'	100'	400'	240'	425'
55		550'	605'	660'	55'	110'	500'	295'	495'
60		600'	660'	720'	60'	120'	600'	350'	570'
65		650'	715'	780'	65'	130'	700'	410'	645'
70	700'	770'	840'	70'	140'	800'	475'	730'	
75	750'	825'	900'	75'	150'	900'	540'	820'	

\* Conventional Roads Only  
 \*\* Taper lengths have been rounded off.  
 L=Length of Taper (FT) W=Width of Offset (FT) S=Posted Speed (MPH)

TYPICAL USAGE				
MOBILE	SHORT DURATION	SHORT TERM STATIONARY	INTERMEDIATE TERM STATIONARY	LONG TERM STATIONARY
	✓	✓		

GENERAL NOTES

- Flags attached to signs where shown are REQUIRED.
- All traffic control devices illustrated are REQUIRED, except those denoted with the triangle symbol may be omitted when stated elsewhere in the plans, or for routine maintenance work when approved by the Engineer.
- The CW3-4 "BE PREPARED TO STOP" sign may be installed after the CW20-4D "ONE LANE ROAD AHEAD" sign, but proper sign spacing shall be maintained.
- Sign spacing may be increased or an additional CW20-1D "ROAD WORK AHEAD" sign may be used if advance warning ahead of the flagger sign is less than 1500 feet.
- Flaggers should use two-way radios or other methods of communication at all times to control traffic.
- Flaggers should use 24" STOP/SLOW paddles to control traffic. Flags should be limited to emergency situations.
- If the work space is located near a horizontal or vertical curve, the buffer distances should be increased in order to maintain adequate stopping sight distance to the flagger and a queue of stopped vehicles (see table above).
- If the seal coat operation crosses intersections, traffic in these areas must be controlled. Care must be taken to prevent vehicles from crossing the asphalt before the aggregate is placed. This may require positioning other member of the traffic control crew at the intersection.
- Temporary rumble strips are not required on seal coat operations.
- Pilot car is used to guide vehicles through traffic control zone, vehicle shall have an identification name displayed and "PILOT CAR, FOLLOW ME" (G20-4) sign or message board mounted in a conspicuous position on rear.

TCP (SC-1a)

- Channelizing devices on the center-line may be omitted when a pilot car is leading traffic.

SHEET 1 OF 7



TRAFFIC CONTROL PLAN  
SEAL COAT  
OPERATIONS

TCP (SC-1) -21

FILE#	tcpsc-1-21.dgn	DN#		CK#		DR#		CL#	
© TXDOT	April 2021	CONT	SECT	JOB		HIGHWAY			
REVISIONS		DIST	COUNTY	SHEET NO.					



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LEGEND

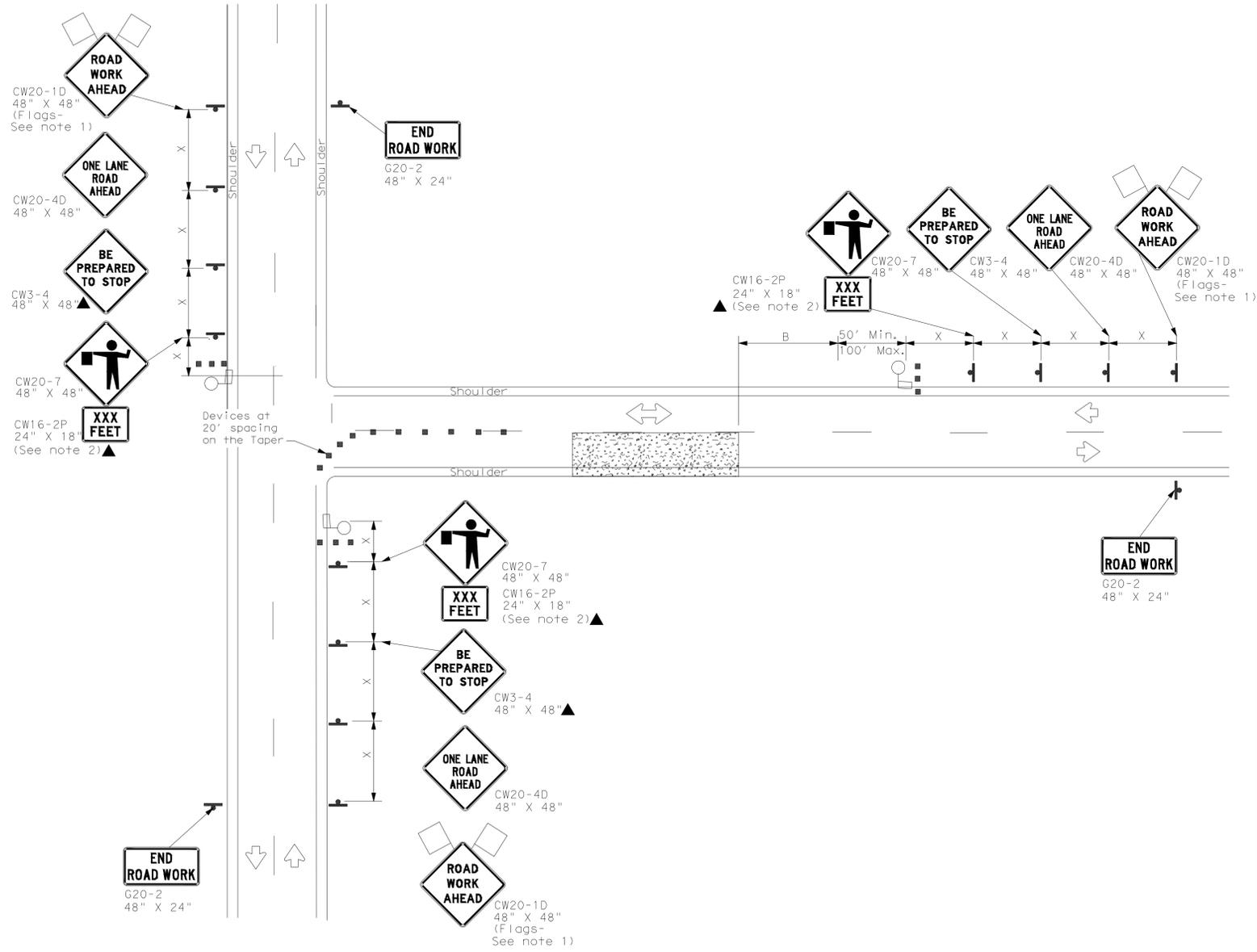
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- ▨ AREA TO BE REPAIRED
- ▩ EDGE OF PAVEMENT TO BE REPAIRED
- MATCH LINE
- POT HOLE LOCATION



THE SEAL APPEARING ON THIS DOCUMENT WAS AUTHORIZED BY JAMES C. TOMPKINS, P.E. 93839 ON JUNE, 05 2023

REVISION DESCRIPTION	REVISION	DATE

SEALCOAT TRAFFIC CONTROL PLAN I					
2023 MIDLAND PAVEMENT MAINTENANCE PROJECT					
DESIGN	DRAWN	DATE	PROJECT NO.	SCALE	PAGE:
J.C.T.	OV	5/24/23	55875	N/A	C-25.0



LEGEND

	Type 3 Barricade		Channelizing Devices
	Heavy Work Vehicle		Truck Mounted Attenuator (TMA)
	Trailer Mounted Flashing Arrow Board		Portable Changeable Message Sign (PCMS)
	Sign		Traffic Flow
	Flag		Flagger

Posted Speed * *	Formula	Minimum Desirable Taper Lengths **			Suggested Maximum Spacing of Channelizing Devices		Minimum Sign Spacing "x" Distance	Suggested Longitudinal Buffer Space "B"	Stopping Sight Distance
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30	$L = \frac{WS^2}{60}$	150'	165'	180'	30'	60'	120'	90'	200'
35		205'	225'	245'	35'	70'	160'	120'	250'
40	L=WS	265'	295'	320'	40'	80'	240'	155'	305'
45		450'	495'	540'	45'	90'	320'	195'	360'
50	L=WS	500'	550'	600'	50'	100'	400'	240'	425'
55		550'	605'	660'	55'	110'	500'	295'	495'
60	L=WS	600'	660'	720'	60'	120'	600'	350'	570'
65		650'	715'	780'	65'	130'	700'	410'	645'
70	L=WS	700'	770'	840'	70'	140'	800'	475'	730'
75		750'	825'	900'	75'	150'	900'	540'	820'

\* Conventional Roads Only  
 \*\* Taper lengths have been rounded off.  
 L=Length of Taper (FT) W=Width of Offset (FT) S=Posted Speed (MPH)

TYPICAL USAGE

MOBILE	SHORT DURATION	SHORT TERM STATIONARY	INTERMEDIATE TERM STATIONARY	LONG TERM STATIONARY
	✓	✓		

GENERAL NOTES

- Flags attached to signs where shown are REQUIRED.
- All traffic control devices illustrated are REQUIRED, except those denoted with the triangle symbol may be omitted when stated elsewhere in the plans, or for routine maintenance work when approved by the Engineer.
- The CW3-4 "BE PREPARED TO STOP" sign may be installed after the CW20-4D "ONE LANE ROAD AHEAD" sign, but proper sign spacing shall be maintained.
- Flaggers should use two-way radios or other methods of communication at all times to control traffic.
- Flaggers should use 24" STOP/SLOW paddles to control traffic. Flags should be limited to emergency situations.
- If the work space is located near a horizontal or vertical curve, the buffer distances should be increased in order to maintain adequate stopping sight distance to the flagger and a queue of stopped vehicles (see table above).
- Temporary rumble strips are not required on seal coat operations.
- Pilot car is used to guide vehicles through traffic control zone, vehicle shall have an identification name displayed and "PILOT CAR, FOLLOW ME" (G20-4) sign or message board mounted in a conspicuous position on rear.

ONE LANE TWO-WAY (T-INTERSECTION)  
 CONTROL WITH PILOT VEHICLE

Texas Department of Transportation  
 Traffic Safety  
 PMS 101  
 Standard

TRAFFIC CONTROL PLAN  
 SEAL COAT  
 OPERATIONS

TCP (SC-4) -21

FILE: tcpso-4-21.dgn	DN:	CK:	DR:	CK:
© TXDOT April 2021	CONT	SECT	JOB	HIGHWAY
REVISIONS				
DIST	COUNTY	SHEET NO.		

**WTC**  
 ENGINEERS | SURVEYORS

**WTC, INC.**  
 405 S.W. 1st Street  
 Andrews, TX 79714  
 (432) 523-2181  
 TEXAS REGISTERED ENGINEERING FIRM F-2746  
 TEXAS REGISTERED SURVEYOR FIRM #100792-00

LOCATIONS OF UNDERGROUND UTILITIES ARE APPROXIMATE AND MAY NOT INCLUDE ALL UNDERGROUND UTILITIES PRESENT. CONTRACTOR SHALL VERIFY THE LOCATIONS OF ALL UTILITY CROSSINGS BEFORE EXCAVATION OF ROADWAY.

CONTRACTOR SHALL NOTIFY PROPERTY OWNERS AND RESIDENTS A MINIMUM OF 48 HOURS IN ADVANCE OF CONSTRUCTION ACTIVITIES ON OR IN THE VICINITY OF THEIR PROPERTY.

Before You Dig Anywhere In Texas  
 STOP! CALL 1-800-245-4545

TOLL-FREE OSHA RULE 1926.651  
 REQUIRES PREVIOUS  
 NOTIFICATION TEXAS ONE CALL  
 SYSTEM

LEGEND

	OBSERVED RIGHT OF WAY LINE		EXISTING WATER METER
	EXISTING END OF PAVEMENT		EXISTING WATER VALVE
	EXISTING FENCE		EXISTING FIRE HYDRANT
	EXISTING WATER LINE		EXISTING PAVEMENT ROAD
	EXISTING BURIED PIPELINE		AREA TO BE REPAIRED
	EXISTING OVERHEAD ELECTRIC LINE		EDGE OF PAVEMENT TO BE REPAIRED
	EXISTING FIBER OPTIC/TELEPHONE LINE		MATCH LINE
	PROPERTY LINE		POTHOLE LOCATION

STATE OF TEXAS  
 JAMES CHAD TOMPKINS  
 93839  
 LICENSED PROFESSIONAL ENGINEER

THE SEAL APPEARING ON THIS DOCUMENT WAS AUTHORIZED BY JAMES C. TOMPKINS, P.E. 93839 ON JUNE, 05 2023

REVISION DESCRIPTION	REVISION	DATE

SEALCOAT  
 TRAFFIC CONTROL PLAN II

2023 MIDLAND PAVEMENT  
 MAINTENANCE PROJECT

DESIGN	DRAWN	DATE	PROJECT NO.	SCALE	PAGE:
J.C.T.	OV	5/24/23	55875	N/A	C-26.0