

FEDERAL AID PROJECT NO.			
CONT	SECT	JOB	HIGHWAY
6471	52	001	US277
DIST	COUNTY		SHEET NO.
22	MAVERICK		1

DESIGN SPEED = N/A  
 A.D.T. (XXXX) = N/A  
 A.D.T. (XXXX) = N/A

# STATE OF TEXAS DEPARTMENT OF TRANSPORTATION

## PLANS OF PROPOSED HIGHWAY ROUTINE MAINTENANCE CONTRACT

PROJECT NO. RMC: 6471-52-001  
 HWY US 277, ETC.  
 MAVERICK COUNTY

NET LENGTH OF BRIDGE : VARIOUS  
 NET LENGTH OF PROJECT : VARIOUS  
 LIMITS : VARIES WITHIN COUNTY

### FOR THE CLEANING AND SWEEPING OF HIGHWAYS AND LITTER REMOVAL FROM THE RIGHT OF WAY

FINAL PLANS

LETTING DATE: \_\_\_\_\_  
 DATE CONTRACTOR BEGAN WORK: \_\_\_\_\_  
 DATE WORK WAS COMPLETED & ACCEPTED: \_\_\_\_\_  
 FINAL CONTRACT COST: \$ \_\_\_\_\_  
 CONTRACTOR: \_\_\_\_\_

REQUIRED SIGNS SHALL BE IN ACCORDANCE WITH BC (1)- 21 THRU BC (12)- 21 AND THE 'TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES'.

INDEX OF SHEETS

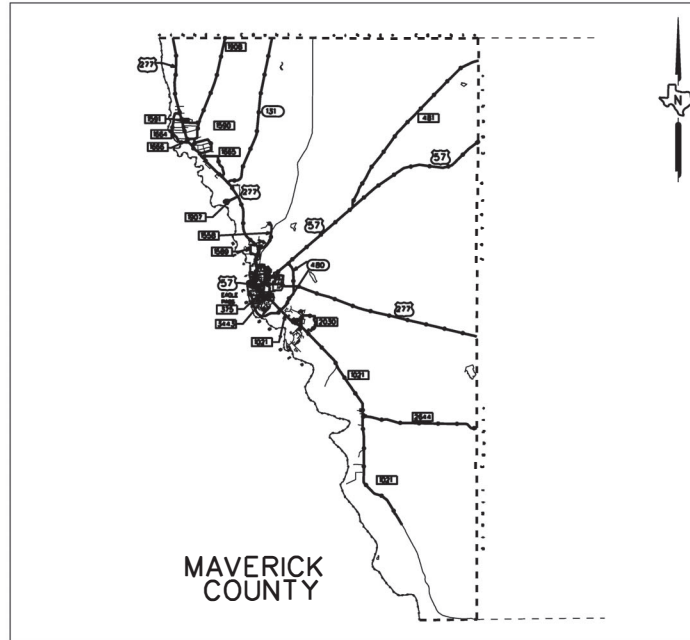
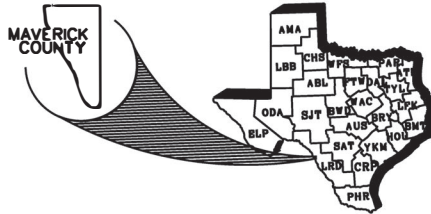
SHEET NO.	DESCRIPTION
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GENERAL

1. TITLE SHEET
2. LOCATION MAP MAVERICK CO. - (LITTER REMOVAL)
3. LOCATION MAP MAVERICK CO. - (CLEANING & SWEEPING)
- 4-5. GENERAL NOTES
6. ESTIMATE AND QUANTITY SHEET
7. SUMMARY OF TRACTS & QUANTITIES (MAVERICK CO. CLEANING & SWEEPING)
8. SUMMARY OF TRACTS & QUANTITIES (MAVERICK CO. LITTER PICK-UP)

STANDARD SHEETS

9. SWEEP-04
10. RS-TCP-05
11. TCP (3-1)-13
12. TCP (3-2)-13



THE STANDARD SHEETS SPECIFICALLY IDENTIFIED WITH A SINGLE ASTERISK(\*) HAVE BEEN ISSUED BY ME OR UNDER MY RESPONSIBLE SUPERVISION AS BEING APPLICABLE TO THIS PROJECT.

DocuSigned by: 7/18/2024

*Vanessa Rosales-Herrera*

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EXCEPTIONS: NONE  
 EQUATIONS: NONE  
 RAILROAD CROSSINGS: NONE

SPECIFICATIONS ADOPTED BY THE TEXAS DEPARTMENT OF TRANSPORTATION NOVEMBER 1, 2014 AND SPECIFICATION ITEMS LISTED AND DATED AS FOLLOWS, SHALL GOVERN ON THIS PROJECT: SPECIAL LABOR PROVISIONS FOR STATE PROJECTS (000-008)



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*Vanessa Rosales-Herrera*

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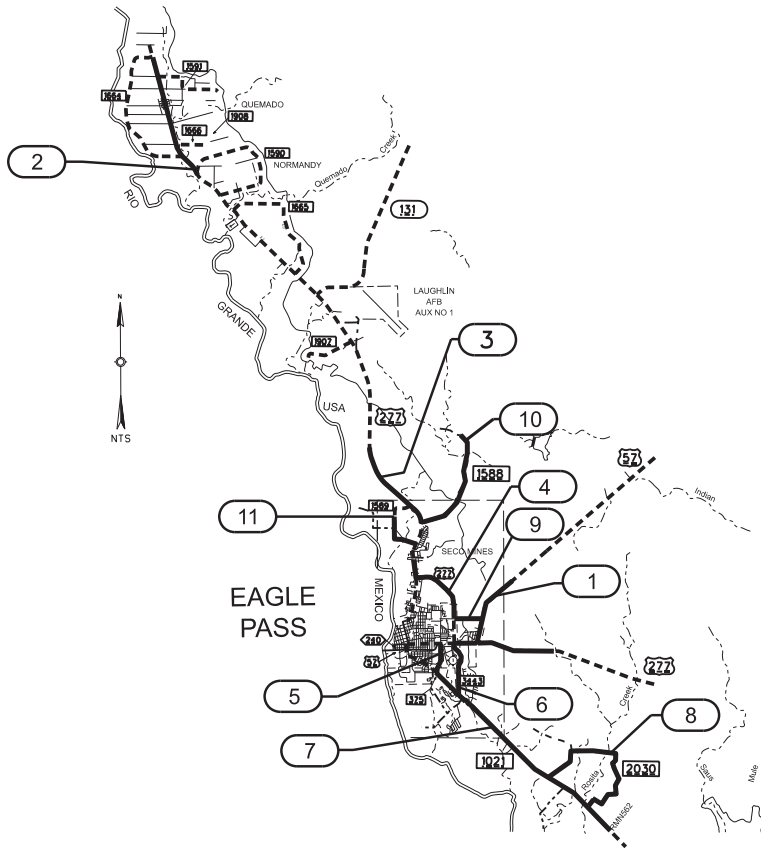
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*Hyoung Ilan*

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 DATE: 7/15/2024  
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Date: 7/15/2024 9:59:22 AM  
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# MAVERICK COUNTY

MAVERICK LITTER REMOVAL						
SUMMARY OF TRACTS AND QUANTITIES						
TRACT NO.	HWY	APPROXIMATE		MILES	DESCRIPTION LIMITS	
		FROM RM	TO RM		FROM	TO
1	US 57	371.5	375.0	3.5	FM375 (BIBB AVE.)	RMN375
2	US 277	586.0	590.5	4.5	FM1664 (NORTH PT.)	FM1590 (NORTH PT.)
3	US 277	600.0	603.7	3.7	RMN600	FM1589 (NORTH PT.)
4	US 277	605.0	607.0	2.0	BU277	SS16
5	FM 375	550.0	551.0	1.0	US57	FM1021
6	FM 3443	550.0	552.0	2.0	US57	FM1021
7	FM 1021	551.4	562.0	10.6	FM375	RMN562
8	FM 2030	374.0	379.0	5.0	FM1021 (NORTH PT.)	FM1021 (SOUTH PT.)
9	SS 216	372.0	372.8	0.8	US277	US57
10	FM 1588	544.0	548.0	4.0	RMN544	US277
11	FM 1589	546.0	548.0	2.0	US277 (SOUTH PT.)	US277 (NORTH PT.)
<b>TOTAL</b>				<b>39.1</b>		



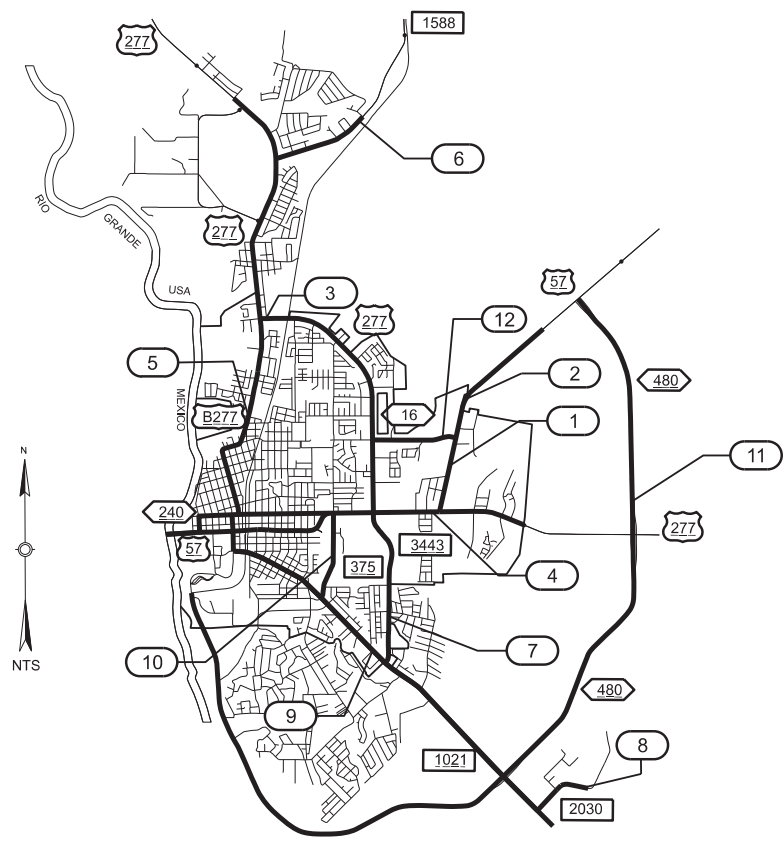
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MAVERICK COUNTY LOCATION MAP LITTER REMOVAL			
© TxDOT 2024		SHEET X OF X	
CONT	SECT	JOB	HWYWAY
6471	52	001	US277
BET	COUNTY	SHEET NO.	
22	MAVERICK	2	

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### EAGLE PASS

MAVERICK SWEEPING				
SUMMARY OF TRACTS AND QUANTITIES OF SWEEPING				
TRACT NO.	HWY	APROXIMATE		MILES
		FROM RM	TO RM	
1	US 57	370	373	3.20
2	US 57	373	375	1.94
3	US 277	604.7	605.2	0.50
4	US 277	602	610	7.41
5	BU 277	548	550	2.17
6	FM 1588	544	548	3.50
7	FM 3443	550	552	1.60
8	FM 2030	374	376	2.00
9	FM 1021	550	558	8.00
10	FM 375	550	551	0.90
11	SL 480	560	570.74	10.74
12	SS 16	372	373	0.90
<b>TOTAL</b>				<b>42.86</b>



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#### MAVERICK COUNTY LOCATION MAP CLEANING & SWEEPING

© TxDOT 2024		SHEET X OF X	
CONT	SECT	JOB	HWYWAY
6471	52	001	US277
DIST	COUNTY	SHEET NO.	
22	MAVERICK	3	

**Project Number:** RMC: 6471-52-001  
**County:** Maverick  
**Control:** 6471-52-001

**Sheet A**

**Highway:** US 277, etc.

**GENERAL NOTES:**

This contract becomes effective upon issuance of a Work Order letter by the Engineer, and covers one (1) year. Provide sufficient staff to concurrently pursue each contract in the event that additional sweeping contracts are awarded to the same Contractor.

Contractor questions on this project are to be emailed to the following individual(s): Angel Alejo at [angel.alejo@txdot.gov](mailto:angel.alejo@txdot.gov), or Irazema Cavazos at [irazema.cavazos@txdot.gov](mailto:irazema.cavazos@txdot.gov).

Contractor questions will only be accepted through email to the above individuals.

All Contractors' questions will be reviewed by the Engineer. Once a response is developed, it will be posted to TxDOT's Public FTP at the following address:  
[https://ftp.dot.state.tx.us/pub/txdot-info/Pre-Letting Responses/](https://ftp.dot.state.tx.us/pub/txdot-info/Pre-Letting%20Responses/)

All questions submitted that generate a response will be posted through this site. This site is organized by: District, Project Type (Maintenance), Letting Date, CCSJ/Project Name.

Plans may be reviewed at Laredo District Office of the Texas Department of Transportation, 1817 Bob Bullock Loop, Laredo, Texas 78043. The contact person is Angel Alejo at [angel.alejo@txdot.gov](mailto:angel.alejo@txdot.gov).

Questions concerning the specifications, work requirements, etc. of this contract should be directed to Vanessa Rosales-Herrera, P.E. at [vanessa.rosales@txdot.gov](mailto:vanessa.rosales@txdot.gov).

Once work has started on any type of cycle of work, continuously prosecute the work until all work on that cycle is satisfactorily completed. Repair and/or replace damaged rails, sign posts, etc., caused by the Contractors' actions during the performance of work. Complete repairs within a time limit as determined by the Engineer.

When the contract is extended by agreement, a performance and/or payment bond, if required, shall be executed in the amount of the extension before the additional work begins.

When notified by Work Order for request of service, begin physical work within 10 business days of notification and work continuously to complete tracts assigned.

Notify the Engineer's Office by telephone each morning by 8:15 a.m. that work is scheduled, with work location and time of arrival or reason for not working that day.

General Notes

**Project Number:** RMC: 6471-52-001  
**County:** Maverick  
**Control:** 6471-52-001

**Sheet B**

**Highway:** US 277, etc.

**SUPERVISION:**

The Engineer's representative in charge of all work in this contract is the Maintenance Supervisor listed below. The Pre-Work Meeting will be held at this location and all requests for payment are certified by this office.

For this project, the Maintenance Supervisor in charge is:

Maverick County  
Charles Fite  
2440 Main St.  
Eagle Pass, Texas 78852  
830-773-2617

Employees are required to wear proper safety equipment. Contractor is responsible for supplying proper safety equipment for employees.

Work must commence within one week of Work Order to Contractor. Work per tract has to be completed in the number of days listed on the Summary of Tracts and Quantities Sheet (weather permitting) or less. Contractor must work continuously to complete items on tracts called out (with exception of Saturdays, Sundays, or National Holidays) unless approved by the Engineer. Approval by the Maintenance Supervisor for non-continued work on tracts does not relieve Contractor from completing work by original tract completion date.

Liquidated damages will be assessed per Work Order(s) which exceed the total allocated work days for tracts assigned on Work Order. In the event that job performance is not to the satisfaction of the Engineer, sub-marginal work is subject to special provision "Schedule of Liquidated Damages".

**LIMITS:**

Cover the roadways and limits as shown on the plans.

**ITEM 4 SCOPE OF WORK:**

If agreed upon in writing by both parties to the Contract, the Contract may be extended for an additional period of time not to exceed the original Contract time period. The extended Contract shall be for the original bid quantities, terms and conditions plus any approved, applicable change orders.

**ITEM 7 LEGAL RELATIONS & RESPONSIBILITIES:**

Roadway closures during the following key dates and/or special events are prohibited: January 1, Easter weekend, the last Monday in May, July 4, the first Monday in September, the fourth Thursday in November, and December 24 or 25.

General Notes

**Project Number:** RMC: 6471-52-001  
**County:** Maverick  
**Control:** 6471-52-001

**Sheet C**

**Highway:** US 277, etc.

**ITEM 502 BARRICADES, SIGNS AND TRAFFIC HANDLING:**

Furnish and install all signs, barricades and other incidentals necessary for proper traffic control, in accordance with part VI of the “Texas Manual on Uniform Traffic Control Devices for Streets and Highways” and in accordance with the standard plan sheets. Provide a truck-mounted attenuator (TMA) for the shadow vehicle and trail vehicles per standard. A minimum of two (2), truck-mounted attenuators are needed for all work operations. Additional devices may be needed to supplement these requirements. All warning signs shall be factory-made and in satisfactory condition. Each sign will have two safety flags attached to it at all times. It will not be permissible to hang or lean these signs on or against the State’s sign post, guardrails, bridge rail, etc. All traffic control devices shall be provided by the Contractor. Traffic control shall not be paid for directly, but shall be subsidiary to pertinent bid items.

Report and deliver all lost and found items to the Engineer. Employees are required to wear proper safety equipment. Contractor is responsible for supplying proper safety equipment for employees.

**ITEM 734 LITTER REMOVAL:**

Begin removing litter ten (10) business days after notification. Refer to the 2014 “Standard Specifications for Construction and Maintenance of Highways, Streets, Bridges” for additional information. Remove all litter from the entire ROW, including all shoulders but excluding the traveled lanes.

**ITEM 738 CLEANING AND SWEEPING HIGHWAYS:**

Disposal of any collected debris at a state-approved landfill site is mandatory and no exceptions will be allowed.

Provide a minimum of two (2) fully operational sweepers during each scheduled working day for this contract. No exceptions will be considered without a written request.

Loose aggregate accumulated by traffic barriers, raised medians, rail, etc. will be removed from the roadway. This work will be considered subsidiary to Item 738 "Cleaning and Sweeping Highways".

Whole tires, rubber, and scrap metal debris picked up from the ROW may be disposed of at the respective Maintenance Office in accordance with applicable federal, state, and local regulations.

Refer to the 2014 “Standard Specifications for Construction and Maintenance of Highways, Streets, Bridges” for additional information.

**Project Number:** RMC: 6471-52-001  
**County:** Maverick  
**Control:** 6471-52-001

**Sheet D**

**Highway:** US 277, etc.

**ITEM 6185 TRUCK MOUNTED ATTENUATOR (TMA) AND TRAILER:**

The total number of truck-mounted attenuators (TMA) required when utilizing the traffic control standards are shown in the table below:

TCP 1 Series	Scenario	Required TMA
(3-1)-13	All	2
(3-2)-13	All	3

Shadow vehicles equipped for truck-mounted attenuators (TMA) for stationary operations must be available for use at any as determined by the Engineer.

The Contractor will be responsible for determining if one or more of these operations will be ongoing at the same time to determine the total number of TMA needed for the project for those times per plan requirements. Additional TMAs used that are not specified in the plans in which the Contractor expects compensation will require prior approval from the Engineer.



# Estimate & Quantity Sheet

CONTROLLING PROJECT ID 6471-52-001

DISTRICT Laredo  
HIGHWAY US0277

COUNTY Maverick

CONTROL SECTION JOB				6471-52-001		TOTAL EST.	TOTAL FINAL
PROJECT ID				A00211612			
COUNTY				Maverick			
HIGHWAY				US0277			
ALT	BID CODE	DESCRIPTION	UNIT	EST.	FINAL		
	734-6004	LITTER REMOVAL - TRACT (1)	AC	1,548.300		1,548.300	
	738-6002	CLEANING / SWEEPING (CENTER MEDIAN)	MI	159.100		159.100	
	738-6004	CLEANING / SWEEPING (OUTSIDE MAIN LANE)	MI	337.800		337.800	
	738-6006	CLEANING / SWEEPING (FRONTAGE ROAD)	MI	4.000		4.000	
	738-6008	CLEANING / SWEEPING(ENTRANCE/EXIT RAMP)	MI	26.200		26.200	
	738-6011	CLEANING / SWEEPING (HANDWORK)	SY	14,824.000		14,824.000	
	6185-6005	TMA (MOBILE OPERATION)	DAY	171.000		171.000	

DISTRICT	COUNTY	CCSJ	SHEET
Laredo	Maverick	6471-52-001	6

PK  
 DW  
 DC  
 EN

MAVERICK SWEEPING										FOR CONTRACTOR'S INFORMATION						
SUMMARY OF TRACTS AND QUANTITIES																
TRACK#	HIGHWAY	FROM	TO	ITEM DESC.	738-6002	738-6004	738-6006	738-6008	738-6011	CYCLES (PER YEAR)	TRACT TIME ALLOWANCE (DAY)	ROADWAY LENGTH (INSIDE) (CL MI.)	ROADWAY LENGTH (OUTSIDE) (CL MI.)	FRONTAGE ROAD LENGTH (CL MI.)	RAMP LENGTH (CL MI.)	HANDWORK SWEEPING SY
					SWEEPING (CENTER MEDIAN) MI.	SWEEPING (OUTSIDE MAINLANE) MI.	SWEEPING (FRONTAGE ROAD) MI.	SWEEPING (ENTRANC EXIT) MI.	SWEEPING HANDWORK SY							
1	US 57	370	373		25.6	25.6	0.0	0.0	0.0	8	0.25	3.2	3.2			
2	US 57	373	375		0.0	15.5	0.0	0.0	0.0	8	0.25		1.9			
3	US 277	604.7	605.2		0.0	0.0	4.0	0.0	5864.0	8	0.25			0.5		1466.0
4	US 277	602	610		59.3	59.3	0.0	0.0	0.0	8	0.50	7.4	7.4			
5	BU 277	548	550		17.4	17.4	0.0	0.0	0.0	8	1.00	2.2	2.2			
6	FM 1588	544	548		0.0	28.0	0.0	0.0	0.0	8	0.50		3.5			
7	FM 3443	550	552		12.8	12.8	0.0	0.0	0.0	8	0.25	1.6	1.6			
8	FM 2030	374	376		0.0	16.0	0.0	0.0	0.0	8	1.00		2.0			
9	FM 1021	550	558		39.2	64.0	0.0	0.0	0.0	8	0.25	4.9	8.0			
10	FM 375	550	551		4.8	7.2	0.0	0.0	0.0	8	0.25	0.6	0.9			
11	SL 480	560	570.74		0.0	84.8	0.0	26.2	0.0	8	0.50		10.6		3.3	
12	SS 216	372	373		0.0	7.2	0.0	0.0	8960.0	8	1.00		0.9			2240.0
TOTAL					159.0	337.8	4.0	26.2	14824.0		6.0	19.9	42.2	0.5	3.3	3706.0

**NOTE:**

THE TOTAL AMOUNT OF MILES ARE CALCULATED CONSIDERING A SWEEPING CYCLE EIGHT TIMES (8) A YEAR, HOWEVER, THE MAINTENANCE SUPERVISOR WILL ISSUE THE CONTRACTOR A WORK ORDER EACH TIME SWEEPING IS REQUIRED.

ENTRANCE/EXIT RAMP QUANTITIES ARE INCLUDED IN THE FRONTAGE CENTERLINE MILES FOR TRACT NO. 12. THE QUANTITIES ARE APPROXIMATE. THE QUANTITIES OF WORK MAY BE INCREASED OR DECREASED AS CONSIDERED NECESSARY BY THE ENGINEER.

\* HANDWORK SWEEPING WILL CONSIST OF 4 CYCLES PER YEAR.

WORK SHALL NOT BE PERFORMED FOR TRACTS UNDER CONSTRUCTION UNLESS AUTHORIZED BY THE ENGINEER



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**SUMMARY OF TRACTS & QUANTITIES (CLEANING & SWEEPING)**

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CONT	SECT	JOB	HIGHWAY
6471	52	001	US277
DIST	COUNTY	SHEET NO.	
22	MAVERICK	7	

PK  
DW  
DC  
EN

MAVERICK LITTER PICK-UP								FOR CONTRACTOR'S INFORMATION		
SUMMARY OF TRACTS AND QUANTITIES								CYCLES PER YEAR	QUANTITY AC/CYC	ALLOWANCE TIME/TR AC/DAY(S)
TRACK #	HIGHWAY	APPROX.		LENGTH MI	DESCRIPTION LIMITS		734-6004 LITTER REMOVAL-TRACT (1) AC			
		FROM RMN	TO RMN		FROM	TO				
1	US 57	371.5	375	3.5	FM375 (BIBB AVE.)	RMN375	142.5	6	23.8	1
2	US 277	586	590.5	4.5	FM1664 (NORTH PT.)	FM1590 (NORTH PT.)	193.7	6	32.3	2
3	US 277	600	603.7	3.7	RMN600	FM1589 (NORTH PT.)	183.0	6	30.5	0.5
4	US 277	605	607	2	BU277	SS16	171.6	6	28.6	2
5	FM 375	550	551	1	US57	FM1021	14.5	6	2.4	0.5
6	FM 3443	550	552	2	US57	FM1021	69.8	6	11.6	1
7	FM 1021	551.4	562	10.6	FM375	RMN562	404.7	6	67.4	2
8	FM 2030	374	379	5	FM1021 (NORTH PT.)	FM1021 (SOUTH PT.)	130.9	6	21.8	1
9	SS 216	372	372.8	0.8	US277	US57	40.6	6	6.8	0.5
10	FM 1588	544	548	4	RMN544	US277	115.4	6	19.2	1
11	FM 1589	546	548	2	US277 (SOUTH PT.)	US277 (NORTH PT.)	81.5	6	13.6	1
TOTALS				39.1			1548.3		258.04	12.5

**NOTE:**

QUANTITIES ARE APPROXIMATE AND THE QUANTITIES OF WORK MAY BE INCREASED OR DECREASED AS CONSIDERED NECESSARY BY THE ENGINEER.

FOR DIVIDED HIGHWAYS, LITTER WILL NEED TO BE REMOVED FROM THE MEDIAN AS WELL.

ALL MATERIAL REMOVED FROM THIS PROJECT SHALL BECOME PROPERTY OF THE CONTRACTOR AND SHALL BE DISPOSED OF AT A SITE AWAY FROM STATE RIGHT OF WAY, AS APPROVED BY THE ENGINEER. DISPOSE OF RUBBER AND SCRAP METAL DEBRIS AT THE TXDOT'S MAINTENANCE OFFICE.



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**Texas Department of Transportation**

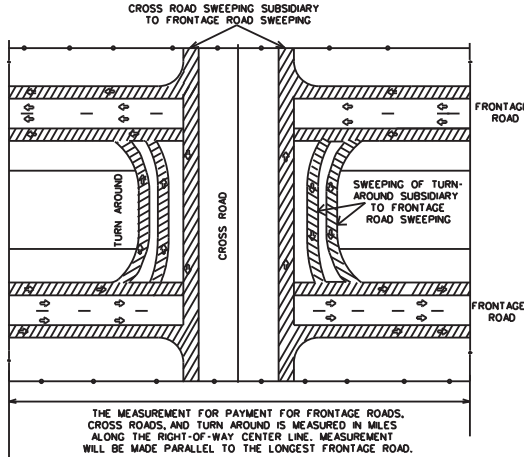
**SUMMARY OF TRACTS & QUANTITIES (LITTER REMOVAL)**

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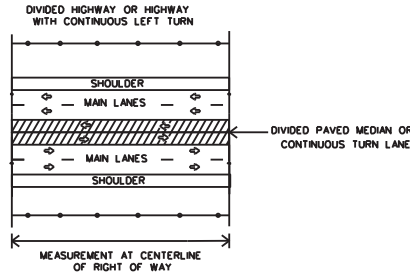
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6471	52	001	US277
DIST	COUNTY	SHEET NO.	
22	MAVERICK	8	



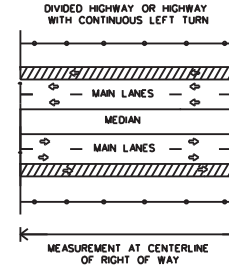
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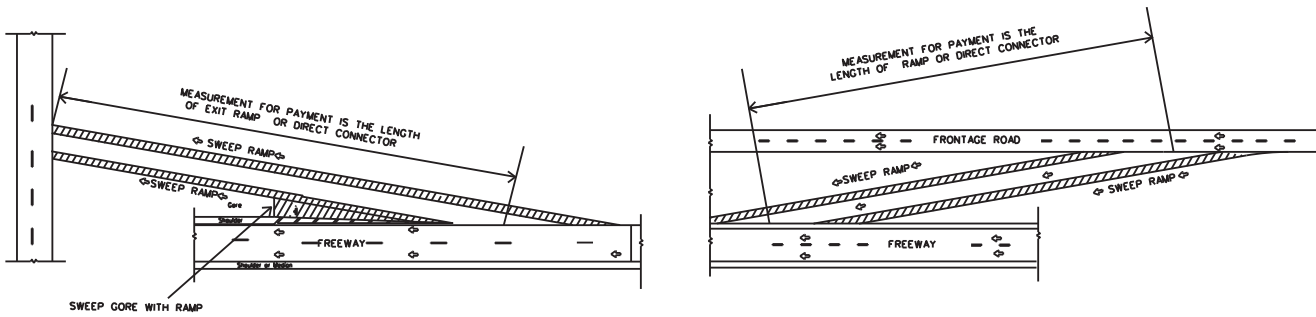
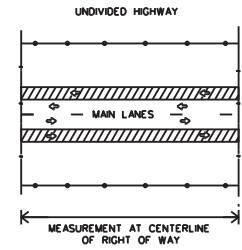
### CENTER MEDIAN SWEEPING



### OUTSIDE MAIN LANE SWEEPING



### OUTSIDE MAIN LANE SWEEPING

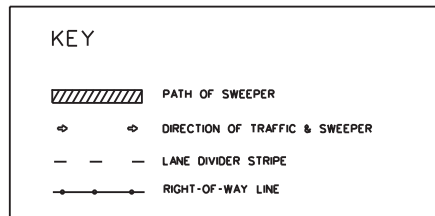


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 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32  
 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48  
 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64

PAYMENT ITEM	NORMAL NUMBER OF PASSES OF THE SWEEPER	MEASUREMENT OF CENTER LINE MILES	OTHER AREAS SUBSIDIARY TO PAYMENT ITEM
SWEEPING (CENTER MEDIAN)	2	OF RIGHT OF WAY	NONE
SWEEPING (OUTSIDE MAIN LANE)	2	OF RIGHT OF WAY	NONE
SWEEPING (ONE FRONTAGE ROAD)	2	OF RIGHT OF WAY	CROSS ROADS & TURN AROUNDS
SWEEPING (TWO FRONTAGE ROADS)	4	OF RIGHT OF WAY	CROSS ROADS & TURN AROUNDS
SWEEPING (RAMP)	2	OF RAMP	GORE AREA
SWEEPING (DIRECT CONNECTOR)	2	OF CONNECTOR	GORE AREA



Texas Department of Transportation  
 Maintenance Division  
 Standard Plans

## SWEEPING HIGHWAYS

# SWEEP - 04

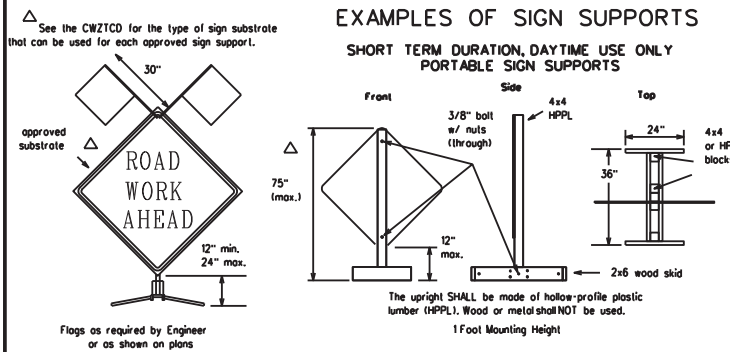
SHEET 1 OF 1 NOT TO SCALE

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REVISED:	COUNTY: MAVERICK	CONTROL SECTION: 64 71	JOB: 52	HIGHWAY: 001	US277

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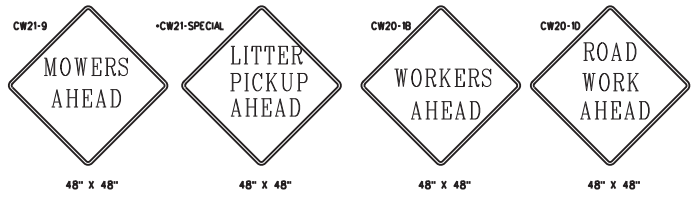
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33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48
49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	



**SIGN IN ACCORDANCE WITH THE TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS**

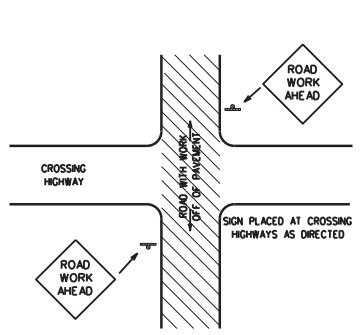
**MOWERS AHEAD SIGNS ARE USED FOR MOWING OPERATIONS.**

**LITTER PICKUP AHEAD, ROAD WORK AHEAD AND WORKER AHEAD SIGNS ARE USED AS DIRECTED FOR OTHER MAINTENANCE OPERATIONS WHEN ALL WORK OCCURS OFF OF THE PAVED HIGHWAY SURFACE.**



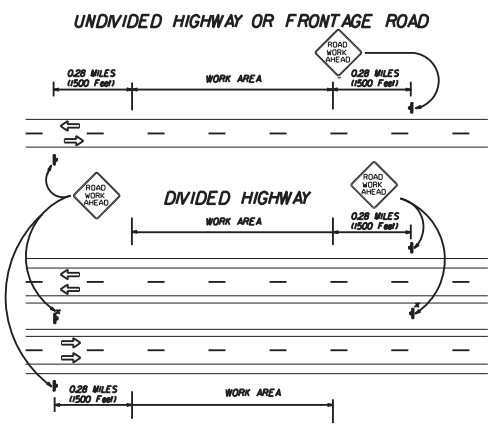
**ROLL-UP SIGNS CONFORMING TO DMS-8310 AND THE CWZTCO ALLOWED**

\*Letter dimensions and spacing for "CW21-SPECIAL" is the same as C20-1D



WORK AREA IS A MAXIMUM OF 2.0 MILES UNLESS OTHERWISE DIRECTED. SIGNS MAY REMAIN IN PLACE ONLY DURING DAYLIGHT HOURS. SIGNS ARE TO BE PLACED 6 TO 12 FEET OFF THE PAVED SURFACE UNLESS OTHERWISE DIRECTED. ROAD WORK AHEAD SIGNS SHOWN AS EXAMPLES. ONE OF THE FOUR TYPE SIGNS WILL BE USED AS DIRECTED.

\* SIGNS IN THE MEDIAN ARE REQUIRED WHEN WORK OCCURS IN MEDIAN



**TRAFFIC CONTROL PLAN FOR WORK OFF OF THE PAVED SURFACE.**

**GENERAL NOTES FOR WORK ZONE SIGNS**

- Contractor shall install and maintain signs in a straight and plumb condition and/or as directed by the Engineer.
  - Wooden sign posts shall be painted white.
  - Barricades shall NOT be used as sign supports.
  - Noils shall NOT be used to attach signs to any support.
  - All signs shall be installed in accordance with the plans or as directed by the Engineer. Signs shall be used to regulate, warn, and guide the traveling public safely through the work zone.
  - The Contractor may require the Contractor to furnish other work zone signs that are shown in the TMUTCD but may have been omitted from the plans. Any variation in the plans shall be documented by written agreement between the Engineer and the Contractor's Responsible Person. All changes must be documented in writing before being implemented. This can include documenting the changes in the Inspector's TxDOT diary and having both the Inspector and Contractor initial and date the agreed upon changes. The additional signs requested by the Engineer/Inspector shall not be subsidiary.
  - The Contractor shall furnish sign supports listed in the "Compliant Work Zone Traffic Control Device List" (CWZTCO). The Contractor shall install the sign support in accordance with the manufacturer's recommendations. If there is a question regarding installation procedures, the Contractor shall furnish the Engineer a copy of the manufacturer's installation recommendations so that the Engineer can verify the correct procedures are being followed.
  - The Contractor is responsible for sign installations and replacing signs with damaged or cracked substrates and/or damaged or marred reflective sheeting as directed by the Engineer/Inspector.
  - Identification markings may be shown only on the back of the sign substrate. The maximum height of letters and/or company logos used for identification shall be 1".
  - The Contractor shall replace damaged wood posts. New or damaged wood sign posts shall not be spliced.
- Duration of Work is defined by the "Texas Manual on Uniform Traffic Control Devices" Part VII
- The Contractor is responsible for ensuring the sign support and substrate meets crashworthiness. For mowing operation all signs and supports are Short-term Duration for daytime work.
  - The Contractor shall furnish the sign sizes shown on this sheet or as directed by the Engineer.

**SIGN SUBSTRATES**

- The Contractor shall ensure that the sign substrate is allowed for the type of sign support that is being used. The CWZTCO lists each substrate that can be used on the different types and models of sign supports.
- "Mesh" type materials are NOT an approved sign substrate.
- All wooden individual sign panels fabricated from 2 or more pieces shall have one or more plywood cleat, 1/2" thick by 6" wide, fastened to the back of the sign and extending fully across the sign. The cleat shall be attached to the back of the sign using wood screws that do not penetrate the face of the sign panel. The screws shall be placed on both sides of the splice and spaced at 6" centers. The Engineer may approve other methods of splicing the sign faces.

**REFLECTIVE SHEETING**

- ReflectORIZED signs shall be constructed of sheeting meeting the color and retro-reflectivity requirements of DMS-8300 or DMS-8310. The DMS specifications can be accessed from the following web address: [http://manuals.dot.state.tx.us/80/dynaweb/calmoles/0Generic\\_Collection/Veicacs/defaults/default](http://manuals.dot.state.tx.us/80/dynaweb/calmoles/0Generic_Collection/Veicacs/defaults/default)
- White sheeting, meeting the requirements of DMS-8300 Type C (High Sign Intensity), shall be used for signs with white background and chromatic devices.
- Orange sheeting, meeting the requirements of DMS-8300 Type E (Fluorescent Prismatic), shall be used for signs with orange backgrounds.

**SIGN LETTERS**

- All sign letters and numbers shall be clear, and open rounded type uppercase alphabet letters as approved by the Federal Highway Administration (FHWA) and as published in the "Standard Highway Sign Design for Texas" manual. Signs, letters and numbers shall be of first class workmanship in accordance with Department Standards and Specifications.

**REMOVING OR COVERING**

- Signs should be removed or completely covered when not mowing.
- Duct tape or other adhesive material shall NOT be affixed to a sign face.
- Signs and supports shall be removed by the end of the day.

**SIGN SUPPORT WEIGHTS**

- Where sign supports require the use of weights to keep from turning over, the use of sandbags with dry cohesionless sand is recommended.
- The sandbags will be tied shut to keep the sand from spilling and to maintain a constant weight.
- Rock, concrete, iron, steel or other solid objects will not be permitted for use as sign support weights.
- Sandbags should weigh a minimum of 35 lbs and a maximum of 50 lbs.
- Sandbags shall be made of a durable material that tears upon vehicular impact.
- Rubber (such as tire inner tubes) shall NOT be used for sandbags.
- Rubber ballasts (such as those used with cones or edgeline channeleers) shall NOT be used as sign support weights.
- Sandbags shall only be placed along or laid over the base supports of the traffic control device and shall not be suspended above ground level or hung with rope, wire, chains or other fasteners. Sandbags shall be placed along the length of the skids to weigh down the sign supports.
- Sandbags shall NOT be placed under the skid and shall not be used to level sign supports placed on slopes.

**CONTRACTOR REQUIREMENTS FOR MAINTAINING PERMANENT SIGNS WITHIN THE PROJECT LIMITS**

Any sign, sign support or traffic control device that is struck or damaged by the Contractor or his/her construction equipment shall be replaced or repaired as soon as possible by the Contractor at the Contractor's expense.

Only pre-qualified products shall be used. A copy of the "Compliant Work Zone Traffic Control Devices List" (CWZTCO) describes pre-qualified products and their sources and may be obtained by contacting:

Standards Engineer  
 Traffic Operations Division - TE  
 Texas Department of Transportation  
 125 East 11th Street  
 Austin, Texas 78701-2483  
 Phone (512) 416-3120  
 Fax (512) 416-3299

Instructions to locate the "CWZTCO" on TxDOT website are:

Start at website - [www.dot.state.tx.us](http://www.dot.state.tx.us)  
 Click on "About TxDOT".  
 Click on "Organizational Chart".  
 Click on "Traffic Operations Box".  
 Click on "Compliant Work Zone Traffic Control Devices".  
 Click on "View PDF".  
 This site is printable.

Texas Department of Transportation  
 Maintenance Division  
 Standard Plans

**ROADSIDE TRAFFIC CONTROL PLAN**

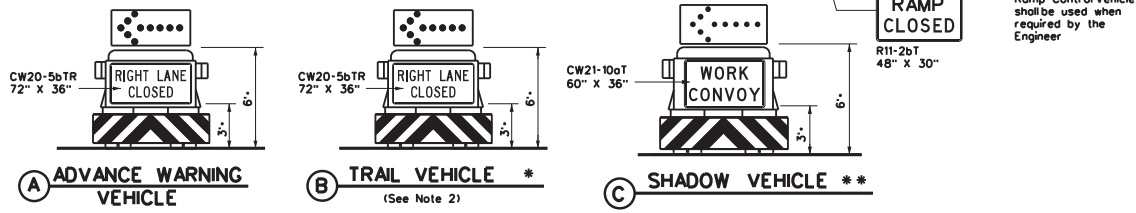
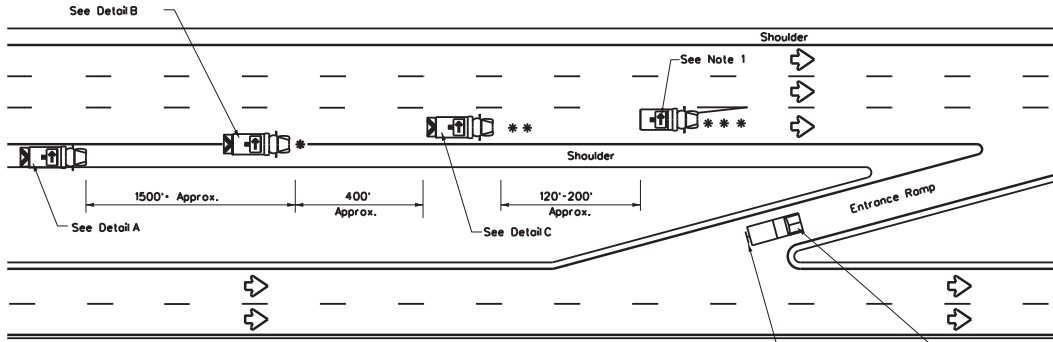
SHEET 1 OF 1      **RS-TCP-05**      NOT TO SCALE

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© TxDOT FEBRUARY 2005	DATE REVISION	FEDERAL REGION		FEDERAL AID PROJECT	SHEET
REVISED: September 12, 2004	22	N/A		N/A	10
REVISED: FEBRUARY 2, 2005 Sign placement in TCP		COUNTY		CONTROL SECTION	JOB
		MAVERICK		6471	52 001 US277

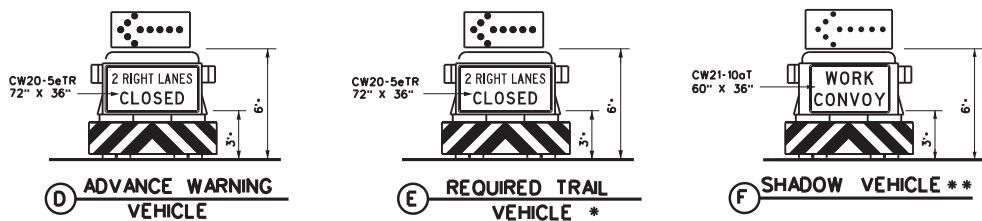
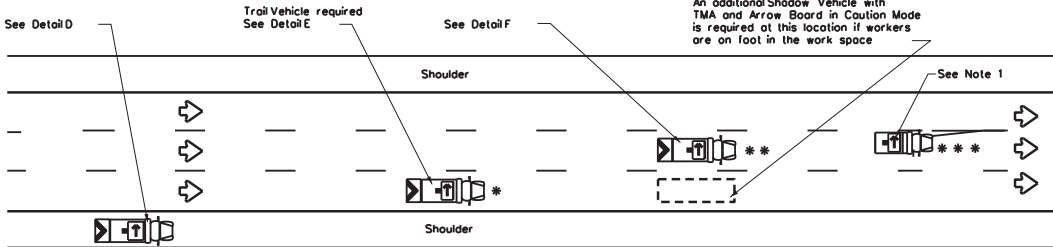


DSCC 445R. The use of this standard is governed by the "Texas Engineering Practice Act". No warranty of any kind is made by TxDOT for any purpose whatsoever. TxDOT assumes no responsibility for the conversion of units or for any errors or omissions, or for any damages resulting from its use.

DATE: 7/15/2024 9:49:24 AM  
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**RIGHT LANE CLOSURE ON DIVIDED HIGHWAY - TCP(3-2a)**



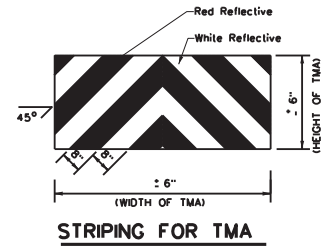
**INTERIOR LANE CLOSURE ON MULTI-LANE DIVIDED HIGHWAY - TCP(3-2b)**

LEGEND	
* Trail Vehicle	ARROW BOARD DISPLAY
** Shadow Vehicle	
*** Work Vehicle	RIGHT Directional
Heavy Work Vehicle	LEFT Directional
Truck Mounted Attenuator (TMA)	Double Arrow
Traffic Flow	CAUTION (Alternating Diamond or 4 Corner Flash)

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

**GENERAL NOTES**

- ADVANCE WARNING, TRAIL and SHADOW vehicles shall be equipped with Type B or Type C flashing arrow boards as per the Barricade and Construction (BC) standards. Arrow boards on WORK vehicles will be optional based on the type of work being performed. The arrow boards shall be operated from inside the vehicle.
- For TCP(3-2a) the Engineer will determine if the TRAIL VEHICLE is required based on prevailing roadway conditions, traffic volume, and sight distance restrictions. All other vehicles shown for both TCP(3-2a) and TCP(3-2b) are required.
- The use of amber high intensity rotating, flashing, oscillating, or strobe lights on vehicles are required. Blue high intensity rotating, flashing, oscillating or strobe lights when mounted on the driver's side of the vehicle may be operated simultaneously with the amber beacons or strobe lights.
- The use of truck mounted attenuators (TMA) on the ADVANCE WARNING, SHADOW, and TRAIL vehicles are required.
- Reflective sheeting on the rear of the TMA shall meet or exceed the reflectivity and color requirements of DMS 8300, Type A.
- Each vehicle shall have two-way radio communication capability.
- When work convoys must change lanes, the TRAIL VEHICLE should change lanes first to shadow the other convoy vehicles.
- Vehicle spacing between the TRAIL VEHICLE and the SHADOW VEHICLE will vary depending on sight distance restrictions. Motorists approaching the work convoy should be able to see the TRAIL VEHICLE in time to slow down and/or change lanes as they approach the TRAIL VEHICLE. Vehicle spacing between the WORK VEHICLE and SHADOW VEHICLE may vary according to terrain, work activity and other factors.
- Standard 48" X 48" diamond shaped warning signs with the same message as those shown may be used where adequate mounting space exists.
- The signs shown should be used on the Advance Warning Vehicle. As an option, a portable changeable message sign (PCMS) or a truck mounted changeable message sign (TMCMS) with a minimum character height of 12", and displaying the same legend may be substituted for these signs. An appropriate directional arrow display, simulating the size and legibility of the flashing arrow board, must be used in the second phase of the PCMS/TMCMS message. When this is done, the arrow board will not be required on the Advance Warning Vehicle.
- Standard diamond shape versions of the CW20-5 series signs may be used as an option if the rectangular signs shown are not available.
- The principles on this sheet may be used to close lanes from the left side of the roadway considering the number of lanes, shoulder width, sight distance, and ramp frequency.
- Signs and flashing arrow board modes shall be appropriately altered when implementing left lane closures or interior closures which close the left lanes.
- The Advance Warning Vehicle may straddle the edgeline when shoulder width makes it necessary.



**STRIPING FOR TMA**

		Traffic Operations Division Standard	
<b>TRAFFIC CONTROL PLAN MOBILE OPERATIONS DIVIDED HIGHWAYS</b>			
<b>TCP(3-2)-13</b>			
FILE: tcp3-2.dgn	DN: TxDOT	CK: TxDOT	DN: TxDOT
© TxDOT December 1985	CONT SECT	JOB	HIGHWAY
2-94 4-96 8-95 7-13 1-97	REVISIONS	6471 52 001	US277
	DIST	COUNTY	SHEET NO.
	22	MAVERICK	12