

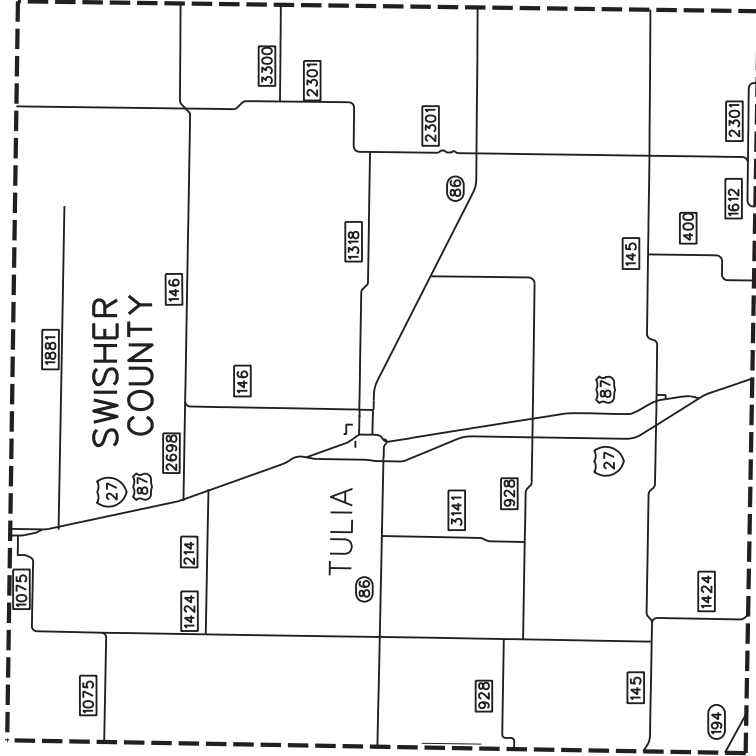
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STATE OF TEXAS
DEPARTMENT OF TRANSPORTATION
PLANS OF PROPOSED
ROUTINE MAINTENANCE CONTRACT

© 2024 Texas Department of Transportation	
PROJECT NO.	RMC 647088001
SHEET NO.	6
STATE	TX
COUNTY	SWISHER
DIST.	003
SECTION	001
FILE NAME	7/17/2024

TYPE OF WORK:
ROADSIDE MOWING
 PROJECT NO.: RMC 647088001
 CSJ: 6470-88-001
 HIGHWAY: VARIOUS
 LIMITS OF WORK: SWISHER COUNTY



THE STANDARD SHEETS SPECIFICALLY IDENTIFIED ABOVE HAVE BEEN SELECTED BY ME OR UNDER MY RESPONSIBLE SUPERVISION AS BEING APPLICABLE TO THIS PROJECT.


 Documented by: Michael Stogner, P.E.
 Date: _____
CIC8890D62C4ADD

SPECIFICATIONS ADOPTED BY THE TEXAS DEPARTMENT OF TRANSPORTATION AND LISTED AND DATED AS FOLLOWS SHALL GOVERN ON THIS PROJECT.

MAPS DO NOT DEPICT ALL ROADWAYS FOR THIS CONTRACT. SEE SHEET 4 FOR EXACT ROADWAYS AND LIMITS.

NO SCALE
 NO EQUATIONS
 NO EXCEPTIONS
 NO RAILROAD CROSSINGS

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SUBMITTED FOR LETTING: 8/1/2024
 Documented by: Michael Stogner, P.E.
CIC8890D62C4ADD

APPROVED FOR LETTING: 8/1/2024
 Documented by: Michael Stogner, P.E.
CIC8890D62C4ADD

RMC 647088001

Project Number: RMC 647088001

Sheet 2

Project Number: RMC 647088001

Sheet 2

County: Swisher

Control: 6470-88-001

Control: 6470-88-001

Highway: Various

Highway: Various

GENERAL NOTES:

Questions may be submitted via the Letting Pre-Bid Q&A web page. This webpage can be accessed from the Notice to Contractors dashboard located at the following Address: <https://tableau.txdot.gov/views/ProjectInformationDashboard/NoticetoContractors>

All contractor questions will be reviewed by the Engineer. All questions and any corresponding responses that are generated will be posted through the same Letting Pre-Bid Q&A web page.

The Letting Pre-Bid Q&A web page for each project can be accessed by using the dashboard to navigate to the project you are interested in by scrolling or filtering the dashboard using the controls on the left. Hover over the blue hyperlink for the project you want to view the Q&A for and click on the link in the window that pops up.

General Requirements and Covenants – Items 1 thru 9

Project Description – This project shall consist Right of Way mowing in the Swisher County Maintenance Section area.

Plainview Area Engineer
Heath Bozeman, P. E.
3900 S B LP IH27
Plainview, TX 79072
Phone: (806) 293-5484

Swisher County Maintenance Supervisor
Chris Wadlow
7500 E SH 86
Tulia, TX 79088
PH (806) 995-3009

Each contract awarded by the Department stands on its own and as such, is separate from other contracts. A contractor awarded multiple contracts, must be capable and sufficiently staffed to concurrently process any or all contracts at the same time.

Item 2 – Instructions to Bidders

View the plans on-line or download from the web at:
<http://www.dot.state.tx.us/business/plansonline/plansonline.htm>

Order plans from any of the plan reproduction companies shown on the web at:
http://www.dot.state.tx.us/business/contractors_consultants/repro_companies.htm

By signing this proposal, a bidder acknowledges that he/she has a copy of the “Standard Specifications for Construction of Highways, Streets and Bridges”, adopted by the Texas Department of Transportation, September 1, 2024. This specification book may be purchased from the Department.

General Notes

Sheet A

Item 3 – Award and Execution of Contract

This Contract includes work required under multiple Work Orders. Perform work as shown in the plans and continue until work is completed.

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 change orders.

When the contract is extended by agreement of both parties, a Performance Bond, if required, and Payment Bond shall be executed in the amount of the extension before the additional work begins.

Item 5 – Control of Work

Notify TxDOT representative by 9:00 am each day for work completed the previous day, including hand trimming and cleanup. The Engineer will then inspect the section(s) of roadway for acceptance, not more than two (2) working days after notification.

Item 8 – Prosecution and Progress

Contract time charges shall begin upon issuance of “Authorization to Begin Work” letter. Seven Hundred and Thirty (730) days have been designated for this contract. Days shall be computed and charged in accordance with Article 8.3.1.5 “Calendar Day.”

Pre-Work Meeting - Prior to beginning work, a conference between the Contractor's representative and the Department will be arranged by the Department.

Submit the outline referenced in Item 8.5.5 in writing. Include all roadways in the sequential order of mowing and the number of day(s) allotted to each roadway. In the event that the schedule is not submitted to the Engineer, work will not be allowed to begin, but time charges will be charged.

Do not begin work each day until 30 minutes after sunrise and stop work 30 minutes before sundown unless authorized by the Engineer. During non-working hours, remove all equipment at least 30 feet from the roadway. No equipment repair will be allowed on the rights of way during non-working hours.

Work Prosecution

Cycles shall begin upon issuance of a Work Order. Individual Work Order charge days shall run concurrently with Contract time charges.

Estimated working days per cycle are calculated as follows:

General Notes

Sheet B

Project Number: RMC 647088001

County: Swisher

Highway: Various

Mowing--total acreage per cycle divided by 150 acres per day.

Each cycle stands alone as to the number of working days allowed for that cycle. The contractor shall be charged liquidated damages per each cycle not completed in the specified time.

Remaining days on each cycle shall not be carried on to future cycles.

The designated number of working days per cycle is 21.

Item 500 - Mobilization

Mobilization for call out work will be paid for each callout work request.

Item 502 - Barricades, Signs and Traffic Handling

For this project, Barricades, Signs, and Traffic Handling will be subsidiary to the various bid items.

The Engineer will inspect and approve all traffic control devices prior to work starting on each cycle.

A traffic control plan is required as shown in the plans. For this Contract, this operation will be considered Short Term Stationary. The Contractor is responsible for furnishing, erecting, and maintaining all signs necessary to comply with the Texas Manual on Uniform Traffic Control Devices. Flags are required on all signs. The Contractor is responsible for compliance with all City, State, and Federal laws.

Use only signs that are 48" x 48". Use signs and sign supports that are listed in the "Compliant Work Zone Traffic Control Devices." This list is available from TxDOT and may be obtained by calling 512-416-3335, or visiting the Departments Web Site at www.dot.state.tx.us.

Item 505 - Truck Mounted Attenuator and Trailer Attenuator

Provide shadow vehicle equipped with Truck Mounted Attenuator (TMA) as shown on Traffic Control Plan (TCP) standard TCP (3-5)-18.

TMA's used for this project shall comply with requirements found in the Complaint Work Zone Traffic Control Devices list, which can be found at the following website.

<http://www.txdot.gov/business/resources/materials/producer-list.html>

A minimum of One (1) TMA for Mowing Operations shall be available daily as noted on the summary sheet.

Project Number: RMC 647088001

County: Swisher

Highway: Various

Item 730 - Roadside Mowing

Full Width (3.2.2) mowing unless otherwise indicated in the plans or as directed.

Curb and Gutter

Mow and hand trim behind curb and gutter in all developed areas if included in the limits of that roadway.

Omitted Areas

Areas not able to be mowed, or that do not need to be mowed, which have been included in the estimated measurements, may be omitted, at the discretion of the Engineer.

Areas omitted will be deducted from the pay measurement. These areas will usually be a minimum of two (2) acres. Areas will be noted in work order.

Easements

Mow State-owned easements and easement slopes as directed by the Engineer. These areas are included in the estimated measurements, except as indicated otherwise in the plans.

Equipment

The Engineer will inspect and approve all equipment prior to work starting on each cycle.

Keep mowers in good operating condition. Repair or replace any equipment the Engineer determines is defective to the point that it may affect the quality of the work.

Equip all decks, including bat-wings, with either safety chains or the manufacturer's safety device long enough to be in constant contact with the ground during operation.

Provide highly visible amber strobe warning lights on all tractors and work trucks.

Cutting Height

Cutting height shall be seven (7) inches when measured on level ground.

Areas left in a ragged condition will be re-mowed with no additional compensation. The Contractor will not be required to make more than two (2) additional passes.

Hand Trimming

Hand trimming is required for all tracts listed in the plans and is considered subsidiary to Item 730.

Sheet 2

Control: 6470-88-001

General Notes

Sheet C

Sheet 2

Control: 6470-88-001

General Notes

Sheet D

Project Number: RMC 647088001

Sheet 2

County: Swisher

Control: 6470-88-001

Highway: Various

Hand trimming shall be completed within 24 hours after mowing is completed on any section of Right of Way.

Hand trim around appurtenances/objects, whether temporary or permanent.

Perform hand trimming operations inside an established safety work zone area.

Hand trim around metal beam guard fence included within the mowing limits. Extend hand trimming from the edge of the roadway, under the guard fence, to a minimum of five (5) feet, for the length of the metal beam guard fence and guardrail extruder terminal or terminal section.

Hand trim all vegetation growing in and around the guardrail in rip-rap and non-mow areas.

Hand trim all vegetation growing around appurtenances/objects behind curb and gutter.

Hand trim around all safety lighting and/or traffic signal lighting. Hand trim a seven (7) foot radius around the base.

Hand trim all vegetation growing in and around all rip-rap areas, including but not limited to all medians, islands, turnarounds, channels, slopes, etc.

DAMAGES

Charges for damages, including paved surfaces, rights of way, vegetation, and appurtenances, will be deducted from payments due to the contractor.

Tract No.	Highway	Limits	Ref. Marker	• Full Cycles	Acres Per Cycle	Total Acres	
						Full	Width
1	SH 86	Castro C/L - Briscoe C/L	300 - 320	4	281	1124	
2	US 87	IH 27 - 3 mi. N. of Tulla	192 - 210	4	150	600	
3	US 87	Randall C/L - IH 27	180-182	4	9	36	
4	FM 145	Castro C/L - Briscoe C/L	290-320	4	194	776	
5	FM 146	SH 86 - Briscoe C/L	312 - 336	4	169	676	
6	FM 214	FM 1424 - IH 27	292-298	4	36	144	
7	FM 400	FM 145 - Hale C/L	158-164	4	36	144	
8	FM 928	Castro C/L - SH 86	288 - 314	4	192	768	
9	FM 1075	Castro C/L - IH 27	286 - 298	4	78	312	
10	FM 1318	US 87 - FM 2301	298-310	4	76	304	
11	FM 1424	FM 1075 - Hale C/L	138 - 166	4	252	1008	
12	FM 1612	FM 2301 - Hale C/L	162 - 166	4	26	104	
13	FM 1881	IH 27 - 13.1 Mile East	296 - 310	4	107	428	
14	FM 2301	Armstrong C/L - Floyd C/L	134-170	4	317	1268	
15	FM 2698	IH 27 - FM 146	296 - 302	4	36	144	
16	FM 3141	SH 86 - FM 928	146-152	4	56	224	
17	FM 3300	FM 2301 - Briscoe C/L	312-316	4	38	152	
18*	IH 27	Hale C/L - Randall C/L	58 - 92	4	1081	4324	
Estimated Acreage Totals						3134	12536

Notes:
 Tract 18: TMA required where median cable barrier present if mower deck extends into roadway. Estimated 8 days per cycle.

MOWING ACRES PER CYCLE 3134
 TOTAL MOWING ACRES 12536
 WORKING DAYS PER CYCLE 21
 TOTAL WORKING DAYS 84

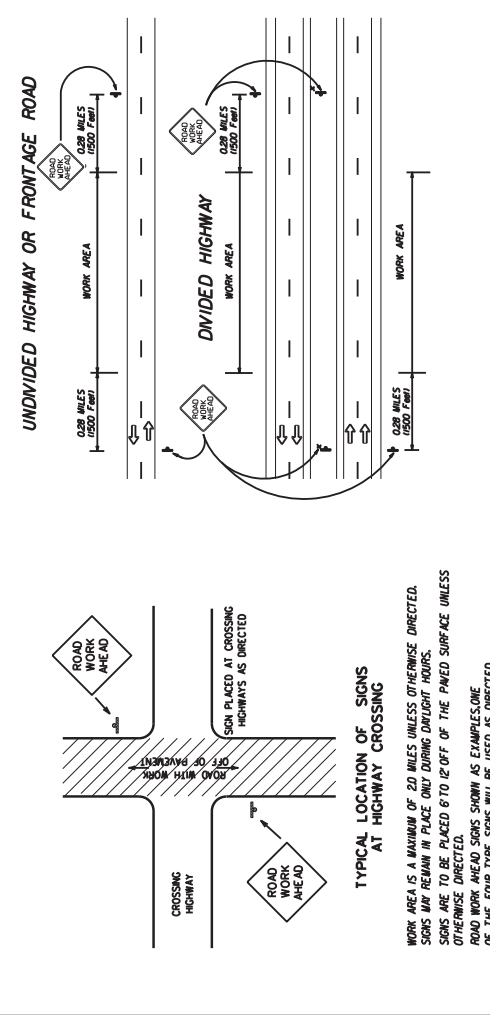
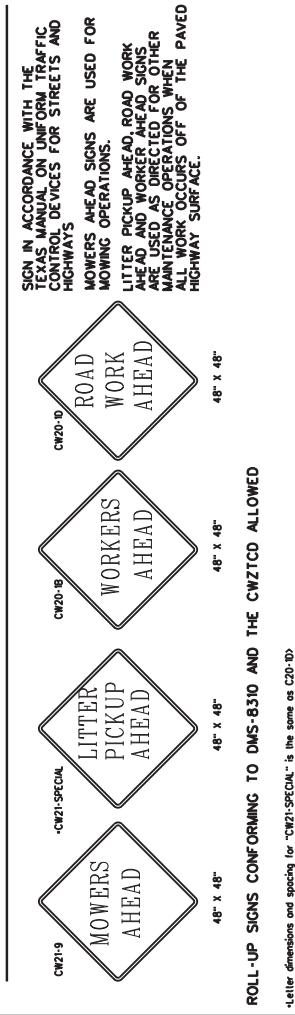
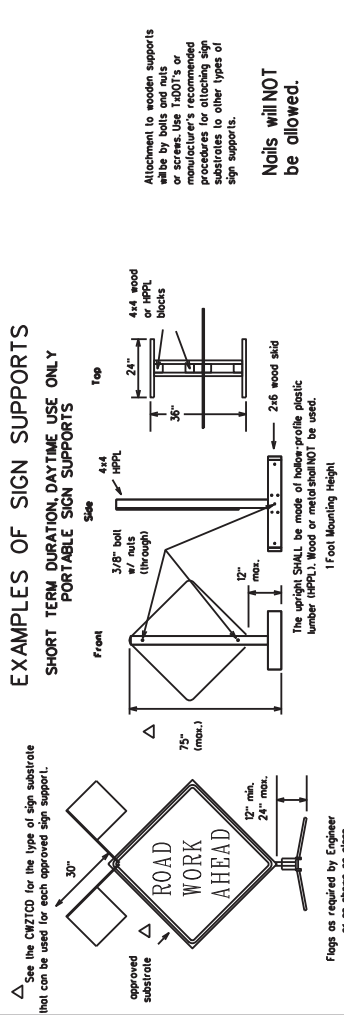
COMBINED TOTALS

MOWING AREAS SUMMARY SHEET

STATE	MAINTENANCE PROJECT NO.	SHEET
06	06-470000	4
COUNTY	TRACT	
77	05	
CONTRACT	SECT.	
640	89	001
		VARIOUS

EXAMPLES OF SIGN SUPPORTS

SHORT TERM, DURATION, DAYTIME USE ONLY PORTABLE SIGN SUPPORTS



TRAFFIC CONTROL PLAN FOR WORK OFF OF THE PAVED SURFACE.

- #### GENERAL NOTES FOR WORK ZONE SIGNS
- Contractor shall maintain and monitor signs in a straight and plumb condition and/or as directed by the Engineer.
 - Wooden sign posts shall be pointed white.
 - Barricades shall NOT be used as sign supports.
 - Flags shall be installed in accordance with the plans or as directed by the Engineer. Signs shall be used to regulate, warn, and control traffic.
 - Signs shall be installed in accordance with the plans or as directed by the Engineer. Signs shall be used to regulate, warn, and control traffic.
 - The Contractor may furnish either the sign design shown in the plans or the "Standard Highway Sign Designs for Texas" (SHSD). The Engineer/Inspector 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 I-2001 diary and having both the Inspector and Contractor initial and date the agreed upon changes. The additional signs shall be furnished by the Contractor.
 - The Contractor shall furnish the "Construction Work Zone Traffic Control/Device List" (CWZTCO). The Contractor shall furnish 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 installation and replacing signs with damaged or cracked substrates and/or damaged or marred reflective sheeting as directed by the Engineer/Inspector.
 - Signs shall be shown only on the back of the sign substrate. The maximum height of letters and/or company logos used for identification shall be 7".
 - The Contractor shall replace damaged wood posts. New or damaged wood sign posts shall not be spliced.
 - Duration of Work (as defined by the "Texas Maintenance Uniform Traffic Control/Devices" Part VI)

- The Contractor is responsible for ensuring the sign support and substrate meets crashworthiness. For meaning 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. The Engineer may approve other methods of spacing the sign faces.
- #### REFLECTIVE SHEETING
- Reflective sheeting shall be constructed of sheathing 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://monos.dot.state.tx.us/80/dmsweb/computer/Generic_Collection/Videos/default
 - White sheathing meeting the requirements of DMS-8300 Type C (High Specific Intensity), shall be used for signs with white background and orange background.
 - Orange sheathing 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 moving.
 - Dark type or other obscuring 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 shall 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 ballasts (such as tire inner tubes) shall NOT be used for sandbags.
 - Rubber ballasts (such as those used with cones or delineator chicanes) shall NOT be used as sign support weights.
 - Sandbags shall only be placed along or laid over the base supports of the traffic cone/delineator and shall not be suspended above ground or along with ropes, wire, chains or other fasteners. Sandbags shall be placed along the length of the studs to weigh down the sign supports.
 - Sandbags shall NOT be placed under the skirt and shall not be used to level sign supports placed on slopes.
- #### CONTRACTOR REQUIREMENTS FOR MAINTAINING PERMANENT SIGNS WITHIN THE PROJECT LIMITS
- The Contractor shall be responsible for maintaining permanent signs within the project limits. 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 "Construction Work Zone Traffic Control/Device 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 17th Street
Austin, Texas 78701-2483
Phone (512) 416-3100
Fax (512) 416-3799

Instructions to locate the "CWZTCO" on TxDOT website are:
Click on "About TxDOT".
Click on "Organizational Chart".
Click on "Traffic Operations Div".
Click on "Construction Work Zone Traffic Control/Devices".
This site is password-protected.

Texas Department of Transportation
Maintenance Division
Standard Plans

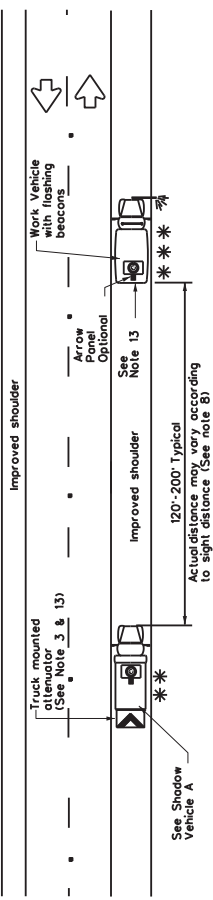
ROADSIDE
TRAFFIC CONTROL PLAN

NOT TO SCALE
RS-TCP-05

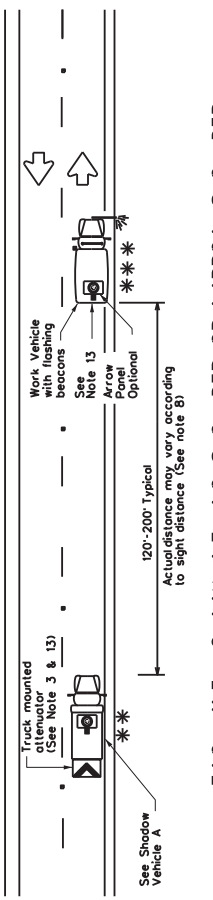
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REVISED: 02/01/2005	REVISED: 02/01/2005	REVISED: 02/01/2005	REVISED: 02/01/2005	REVISED: 02/01/2005	REVISED: 02/01/2005	REVISED: 02/01/2005	REVISED: 02/01/2005	REVISED: 02/01/2005
DESIGNED BY: RMC	DESIGNED BY: RMC	DESIGNED BY: RMC	DESIGNED BY: RMC	DESIGNED BY: RMC	DESIGNED BY: RMC	DESIGNED BY: RMC	DESIGNED BY: RMC	DESIGNED BY: RMC
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COUNTY:	SWISHER	COUNTY:	SWISHER	COUNTY:	SWISHER	COUNTY:	SWISHER	COUNTY:
SECTION:	647088	SECTION:	647088	SECTION:	647088	SECTION:	647088	SECTION:
JOB NO.:	001	JOB NO.:	001	JOB NO.:	001	JOB NO.:	001	JOB NO.:

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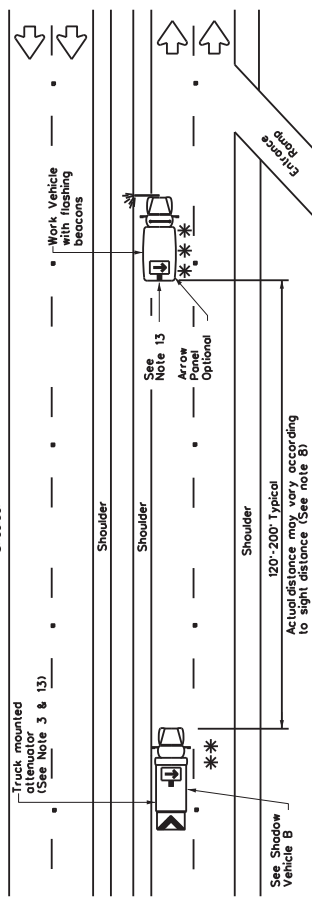
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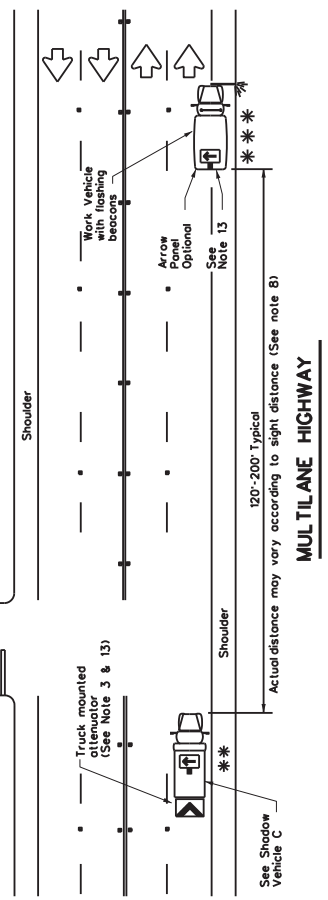
TWO LANE HIGHWAY WITH PAVED SHOULDERS MINIMUM 8'



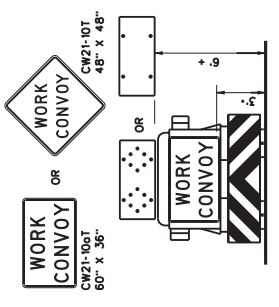
TWO LANE HIGHWAY WITH NO SHOULDER OR NARROW SHOULDER



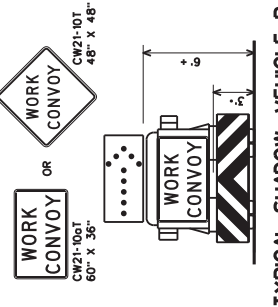
MULTILANE HIGHWAY



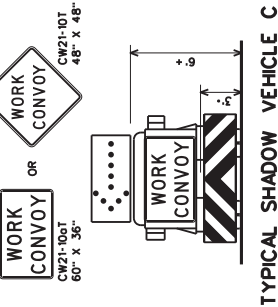
MULTILANE HIGHWAY



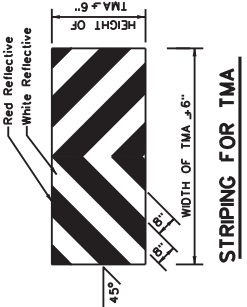
SHADOW VEHICLE A
with Flashing Arrow Board
in Caution Mode



TYPICAL SHADOW VEHICLE B
with RIGHT Directional display
Flashing Arrow Board



TYPICAL SHADOW VEHICLE C
with LEFT Directional display
Flashing Arrow Board



STRIPING FOR TMA

LEGEND		ARROW BOARD DISPLAY
**	Shadow Vehicle	
**	Work Vehicle	
→	Sign	RIGHT Directional
←	Heavy Work Vehicle	LEFT Directional
↔	Traffic Flow	Double Arrow
⚠	Truck Mounted Attenuator (TMA) or Trailer Attenuator (TA)	CAUTION (Alternating Diamond or Corner Flash)

TYPICAL USAGE		LONG TERM
MOBILE	SHORT TERM	STATIONARY
✓	INTERMEDIATE	STATIONARY

GENERAL NOTES

- All traffic control devices shall be in accordance with the "Texas Manual on Uniform Traffic Control Devices" (TMUTCD), latest edition.
- 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 Shadow Vehicle is required.
- Striping on the back panel of all TMAs shall be 8" red reflective striping with white reflective striping in a reverse "V" design. Reflective sheeting shall meet or exceed the reflectivity and color requirements of DEPARTMENTAL MATERIAL SPECIFICATION DMS-8300, TYPE A.
- Flashing Arrow Panels shall be Type B or Type C as per BC Standards. The panel operation shall be controlled from inside the vehicle.
- Each vehicle shall have two-way radio communication capability.
- When the work convoy must change lanes, the Shadow Vehicle should change lanes first to protect the Work Vehicle.
- Spacing between Shadow and Work Vehicle will vary depending on sight distance restrictions. Motorists approaching the work convoy should be alerted to slow down and/or change lanes as they approach the Work Convoy.
- Use of an arrow panel on the Work Vehicle is optional except as provided in note 13, but may be required by the Engineer. If an arrow panel is used, flashing beacons, turning signals and strobe lights shall be separated as practicable at the rear of the Work Vehicle as they are required.
- On two-lane two-way roadways, the Work and Shadow Vehicles should pull over periodically to allow motor vehicle traffic to pass.
- Work and Shadow Vehicles should stay on the shoulder of highways having 8' or wider shoulders when possible.
- A Trip Vehicle may be added to the operation when approved by the Engineer. See TCP(3-5) series standards.
- The shadow vehicle may be omitted on conventional roadways when a TMA or TA and arrow panels mounted to the herbicide vehicle. A separate shadow vehicle will be required on expressways and Freeways.

Texas Department of Transportation
Traffic Operations Division Standard

TRAFFIC CONTROL PLAN
MOBILE OPERATIONS
HERBICIDE TRUCK OPERATIONS
TCP(3-5)-18

FILE: tcp3-5.dgn
DATE: July 2015
REV: 4-18

DATE	REV	BY	APP
07/15/15	1	...	...
07/15/15	2	...	...
07/15/15	3	...	...
07/15/15	4	...	...
07/15/15	5	...	...

179