

© 2021 Texas Department of Transportation	
FED. RD. DIV. NO. 6	PROJECT NO. RMC 638018001
STATE TEXAS	SHEET NO. 1
DIST. LBB	COUNTY HOCKLEY / LAMB
CONTROL 6380	HIGHWAY NO. VARIOUS
SECTION 18	JOB 001
DATE 3/17/2021	

INDEX OF SHEETS

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STATE OF TEXAS

DEPARTMENT OF TRANSPORTATION

PLANS OF PROPOSED ROUTINE MAINTENANCE CONTRACT

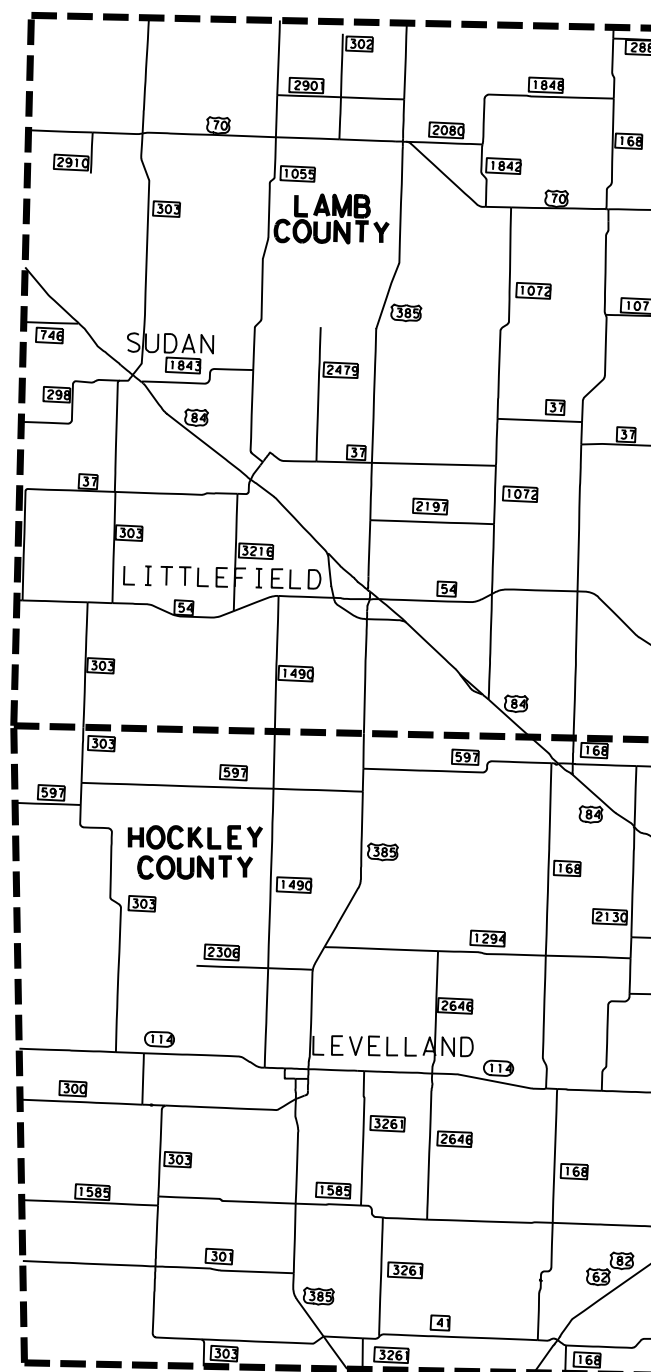
TYPE OF WORK:
ROADSIDE MOWING

PROJECT NO.: RMC 638018001

CSJ: 6380-18-001

HIGHWAY: VARIOUS

LIMITS OF WORK: HOCKLEY AND LAMB COUNTIES

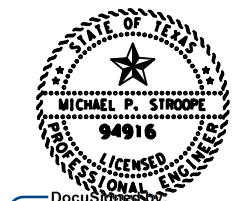


MAPS DO NOT DEPICT ALL ROADWAYS FOR THIS CONTRACT. SEE SHEET 4 FOR EXACT ROADWAYS AND LIMITS.

NO SCALE
NO EQUATIONS
NO EXCEPTIONS
NO RAILROAD CROSSINGS



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



DocuSigned by:
Michael P. Stroope
Michael P. Stroope, P.E.
3/23/2021
Date



SUBMITTED FOR LETTING: 3/23/2021 .20

DocuSigned by:
Michael P. Stroope
BC3D76BE5B2B4F2...
DESIGN ENGINEER

RECOMMENDED FOR LETTING: 3/23/2021 .20

DocuSigned by:
Michael P. Stroope
BC3D76BE5B2B4F2...
DIRECTOR OF MAINTENANCE

SPECIFICATIONS ADOPTED BY THE TEXAS DEPARTMENT OF TRANSPORTATION, NOVEMBER 1, 2014 AND SPECIFICATION ITEMS LISTED AND DATED AS FOLLOWS, SHALL GOVERN ON THIS PROJECT.

RMC 638018001

Project Number: RMC 638018001**Sheet 2****County:** Hockley / Lamb**Control:** 6380-18-001**Highway:** Various**GENERAL NOTES:**

Contractor questions on this project are to be emailed to the following individual(s):

Mike Stroope, P.E., Director of Maintenance
mike.stroope@txdot.gov

Contractor questions will only be accepted through email to the above individual(s).

All contractor 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%20Responses/>

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

General Requirements and Covenants - Items 1 thru 9

Project Description – This project shall consist of Roadside Mowing for the Littlefield Area Office consisting of Lamb and Hockley County Maintenance Sections.

Littlefield Area Engineer

Stevan Perez, P.E.
1600 W Delano Ave
Littlefield, TX 79339
PH (806) 385-3552

Lamb County Maintenance Supervisor

Curt Masters
1600 W Delano Ave
Littlefield, TX 79339
PH (806) 385-3361

Hockley County Maintenance Supervisor

Adrian Mendoza
1501 E SH 114
Levelland, TX 79336
PH (806) 894-4323

Project Number: RMC 638018001**Sheet 2****County:** Hockley / Lamb**Control:** 6380-18-001**Highway:** Various

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, November 1, 2014. This specification book may be purchased from the Department.

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.

Project Number: RMC 638018001**Sheet 2****County:** Hockley / Lamb**Control:** 6380-18-001**Highway:** Various**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:

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 charge 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 32.

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.

Project Number: RMC 638018001**Sheet 2****County:** Hockley / Lamb**Control:** 6380-18-001**Highway:** Various

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 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.

Project Number: RMC 638018001**Sheet 2****County:** Hockley / Lamb**Control:** 6380-18-001**Highway:** Various

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.

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.

Project Number: RMC 638018001**Sheet 2****County:** Hockley / Lamb**Control:** 6380-18-001**Highway:** Various**Item 6185 - 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>

Certified weights of host vehicles may be required by the Engineer to verify compliance with TMA/TA requirements of SS6185.

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

ESTIMATE SUMMARY

PROJECT NUMBER RMC 638018001
CSJ 6380-18-001

DESCRIPTION ALL BID ITEMS										A L T	ITEM- CODE			DESCRIPTION	U N I T	TOTAL	
EST.	FINAL	EST.	FINAL	EST.	FINAL	EST.	FINAL	EST.	FINAL		ITEM NO	DESC CODE	SP NO			EST.	FINAL
								4.000				500	6033				EA
								18728.000			730	6002		AC	18728.000		
								8.000			6185	6005		DAY	8.000		

ESTIMATE & QUANTITY SHEET

STATE DIST. NO.	COUNTY	PROJECT NO.	SHEET NO.
5	LAMB	RMC 638018001	3

		Hockley				
TRACT NO.	HIGHWAY	LIMITS	REF. MARKER	# FULL CYCLES	ACRES PER CYCLE	TOTAL ACRES FULL WIDTH
1	US 385	Lamb Co. to Terry Co.	200-232	4	287	1148
2	SH 114	South FM 303 to Lubbock Co.	260-284	4	250	1000
3	US 62	Lubbock Co. to Terry Co.	304-312	4	97	388
4	US 84	Lubbock Co. to Lamb Co.	292-300	4	92	368
5	FM 168	Lamb Co. to FM 41	202 - 232	4	230	920
6	FM300	US 385 to North FM 303	258 - 266	4	60	240
7	FM 303	SH 114 to Terry Co.	216 - 236	4	104	416
8	FM 301	Cochran Co. to US 385	250 - 262	4	89	356
9	FM 41	FM 303 to Lubbock Co.	254 - 278	4	160	640
10	FM 597	FM 303 to Lubbock Co.	256 - 284	4	185	740
11	FM 1294	US 385 to Lubbock Co.	266 - 284	4	145	580
12	FM 1490	Lamb Co. to SH 114	196-212	4	115	460
13	FM 1585	Cochran Co. to Lubbock Co.	252 - 284	4	265	1060
14	FM 2130	FM 597 to SH 114	196 - 212	4	119	476
15	FM 2306	3 Mi. W. of FM 1490 to US 385	258-264	4	51	204
16	FM 2641	FM 2130 to Lubbock Co.	278-280	4	12	48
17	FM 2646	FM 1294 to FM 1585	204 - 216	4	120	480
18	FM 3261	SH 114 to US 385	210 - 226	4	106	424
Estimated Acreage Totals					2487	9948

Notes:
 Tract 4: TMA required where median cable barrier present if mower deck extends into roadway. Estimated 2 days per cycle.

COMBINED TOTALS	
MOWING ACRES PER CYCLE	4682
TOTAL MOWING ACRES	18728
WORKING DAYS PER CYCLE	32
TOTAL WORKING DAYS	128

		Lamb				
TRACT NO.	HIGHWAY	LIMITS	REF. MARKER	# FULL CYCLES	ACRES PER CYCLE	TOTAL ACRES FULL WIDTH
19	FM-37	FM 303 to Hale C/L	260-292	4	156	624
20	FM-54	FM 303 to Hale C/L	256 - 284	4	186	744
21	US-70	FM 303 to Hale C/L	262 - 286	4	156	624
22	US-84	Lamb/Hockley C/L to SL 430	282-292	4	108	432
23	US-84	SL 430 to US 385	280-282	4	55	220
24	US-84	US 385 to FM 54	278-280	4	48	192
25	US-84	FM 54 to SL 430	276-278	4	51	204
26	US-84	SL 430 to FM 303 in Sudan	266 - 276	4	163	652
27	FM-168	FM 2881 to Hockley C/L	166 - 202	4	202	808
28	FM-302	3Mi N.of FM 2901 to US 70	162 - 168	4	31	124
29	LP-385	US 84 W. to US 84 E.	272 - 272	4	16	64
30	US-385	Castro C/L to Hockley C/L	166-200	4	241	964
31	LP-430	US 84 E. to US 84 W.	186 - 190	4	25	100
32	FM-1055	Castro C/L to FM 37	160-182	4	149	596
33	FM-1071	FM 168 to Hale C/I	278-282	4	22	88
34	FM-1072	US 70 to US 84	170-194	4	202	808
35	FM-1490	FM 54 to Hockley C/L	188-196	4	46	184
36	FM-1842	US 70 to FM 168	272-284	4	81	324
37	FM-1843	US 84 to FM 1055	256-262	4	39	156
38	FM-2080	US 70 to FM 1842	268-272	4	30	120
39	FM-2197	US 385 to FM 1072	266-272	4	40	160
40	FM-2479	FM 37 to 6.4Mi North	176 - 182	4	54	216
41	FM-2901	FM 1055 to US 385	262-268	4	54	216
42	FM-3216	FM 37 to FM 54	184-190	4	40	160
Estimated Acreage Totals					2195	8780

MOWING AREAS SUMMARY SHEET

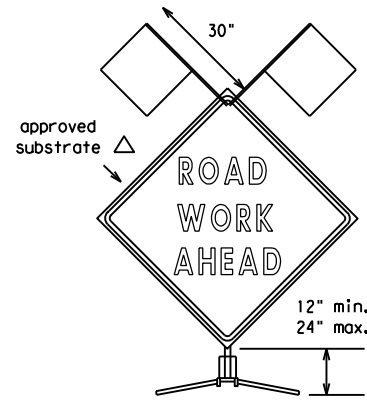
FED. RD. DIST. NO.	MAINTENANCE PROJECT NO.		SHEET NO.
06	RMC 6380/001		4
STATE	STATE DIST. NO.	COUNTY	
TX	05	HOCKLEY / LAMB	
CONT.	SECT.	JOB	HIGHWAY NO.
6380	18	001	VARIOUS

DISCLAIMER
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 this standard to other formats or for incorrect results or damages resulting from its use.

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
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	

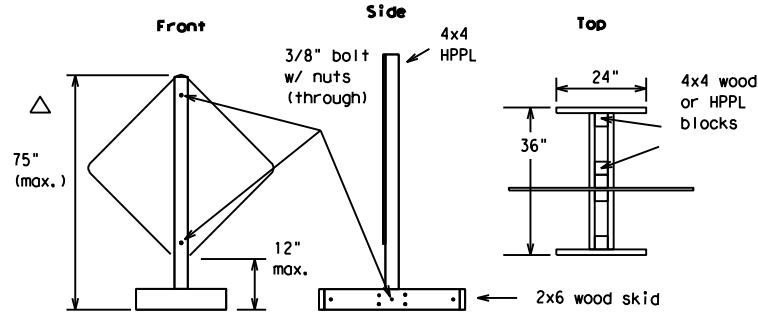
EXAMPLES OF SIGN SUPPORTS

See the CWZTCD for the type of sign substrate that can be used for each approved sign support.



Flags as required by Engineer or as shown on plans

SHORT TERM DURATION, DAYTIME USE ONLY PORTABLE SIGN SUPPORTS

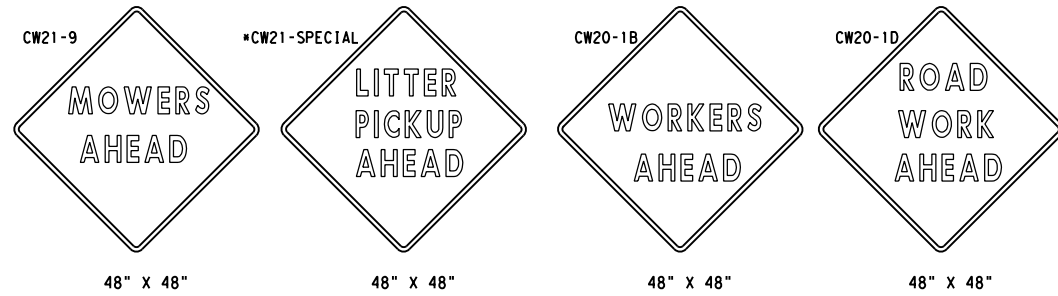


The upright SHALL be made of hollow-profile plastic lumber (HPPL). Wood or metal shall NOT be used.

1 Foot Mounting Height

Attachment to wooden supports will be by bolts and nuts or screws. Use TxDOT's or manufacturer's recommended procedures for attaching sign substrates to other types of sign supports.

Nails will NOT be allowed.



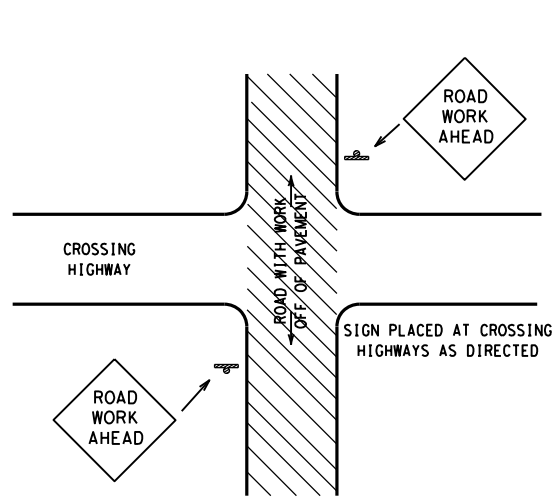
SIGN IN ACCORDANCE WITH THE TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS

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 CWZTCD ALLOWED

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



TYPICAL LOCATION OF SIGNS AT HIGHWAY CROSSING

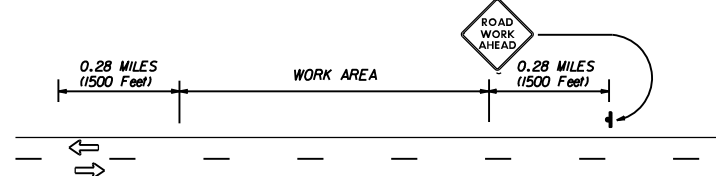
WORK AREA IS A MAXIMUM OF 2.0 MILES UNLESS OTHERWISE DIRECTED. SIGNS MAY REMAIN IN PLACE ONLY DURING DAYLIGHT HOURS.

SIGNS ARE TO BE PLACED 6' TO 12' OFF OF THE PAVED SURFACE UNLESS OTHERWISE DIRECTED.

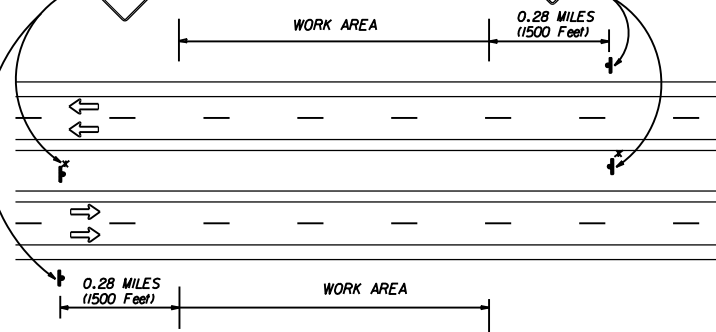
ROAD WORK AHEAD SIGNS SHOWN AS EXAMPLES, ONE OF THE FOUR TYPE SIGNS WILL BE USED AS DIRECTED.

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

UNDIVIDED HIGHWAY OR FRONTAGE ROAD



DIVIDED HIGHWAY



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.
- Nails 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 furnish either the sign design shown in the plans or in 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 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" (CWZTCD). 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 (as 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 CWZTCD 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/colmates/@Generic_CollectionView;cs=default;ts=default
- White sheeting, meeting the requirements of DMS-8300 Type C (High Specific Intensity), shall be used for signs with white background and channelizing 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 channelizers) 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" (CWZTCD) 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 "CWZTCD" on TxDOT website are:

Start at website - 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.

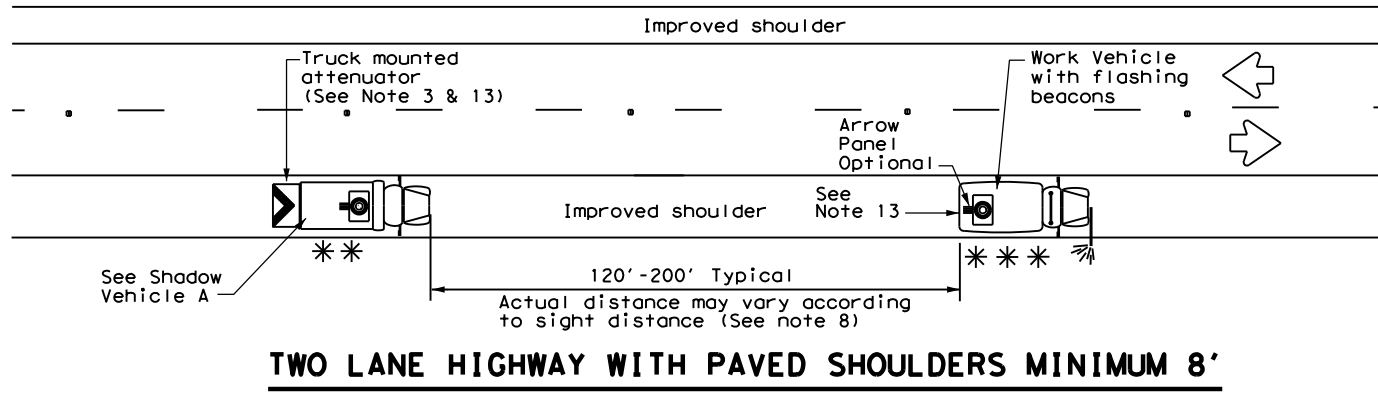
Texas Department of Transportation
Maintenance Division
Standard Plans

ROADSIDE TRAFFIC CONTROL PLAN

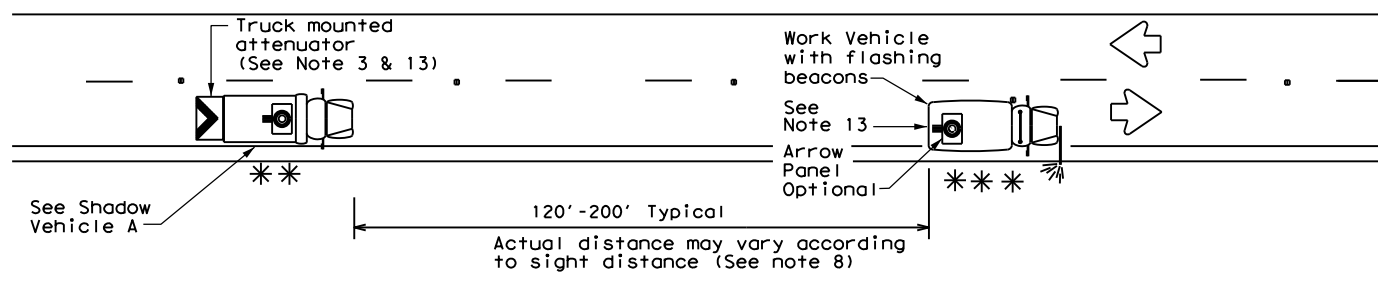
SHEET 1 OF 1 RS-TCP-05 NOT TO SCALE

FILE: RSTCPO5.DGN	DN: LJB	CK: JG	DR: -	CR: -	NEG NO.:
© TxDOT FEBRUARY 2005		STATE DISTRICT	FEDERAL REGION	STATE PROJECT	SHEET
REVISED: September 17, 2004	05	N/A	RMC 638018001	5	
REVISED: FEBRUARY 2, 2005 Sign placement in TCP		COUNTY	CONTROL SECTION	JOB	HIGHWAY
REVISED:		LAMB	6380 18	001	VAR

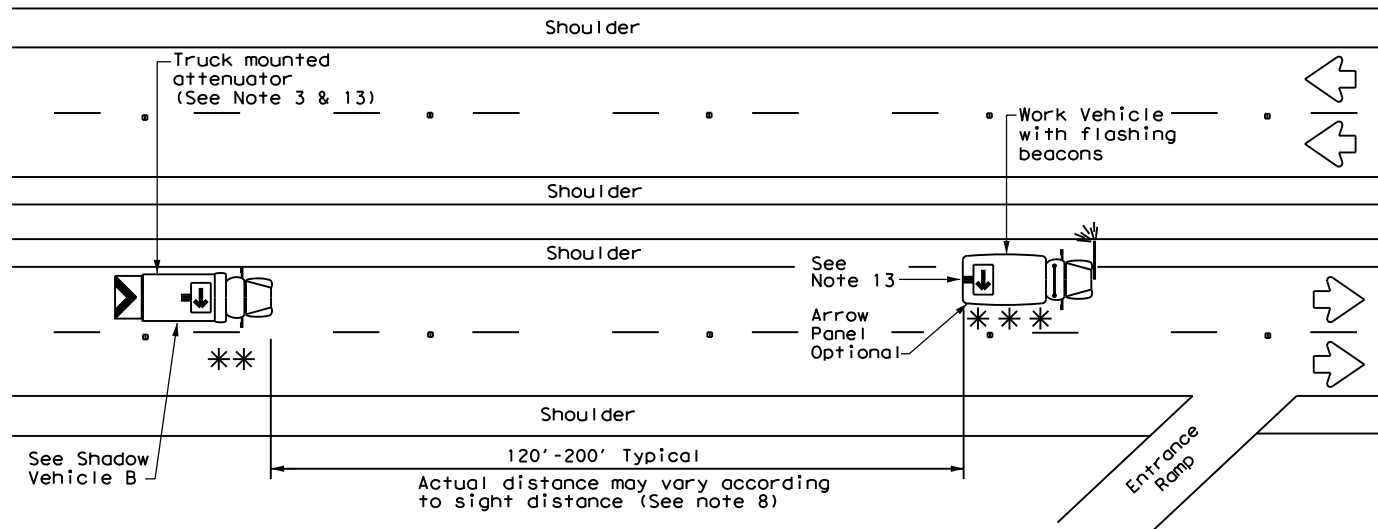
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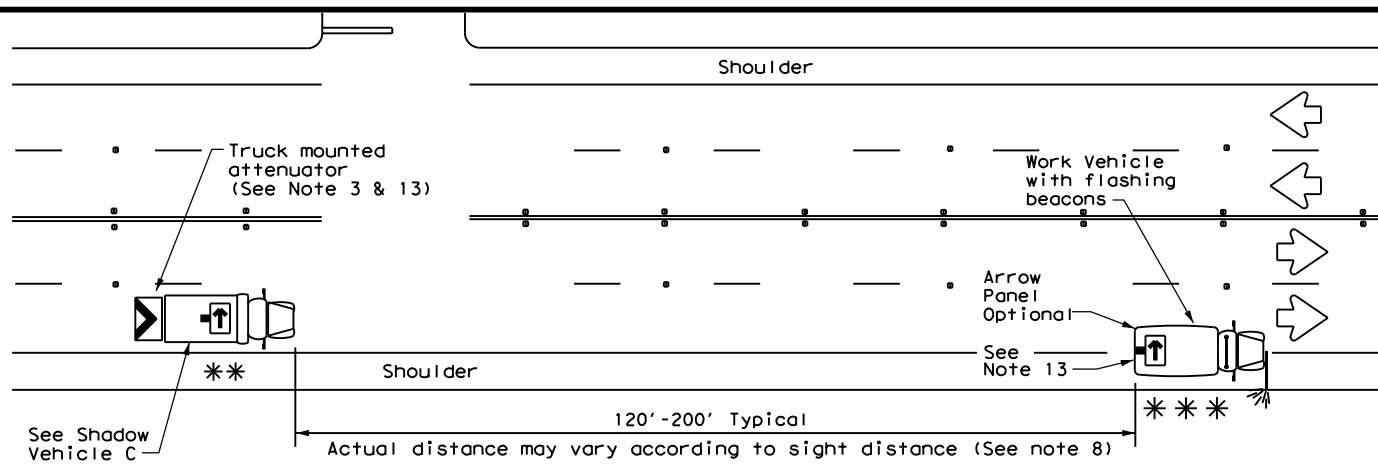
TWO LANE HIGHWAY WITH PAVED SHOULDERS MINIMUM 8'



TWO LANE HIGHWAY WITH NO SHOULDER OR NARROW SHOULDER

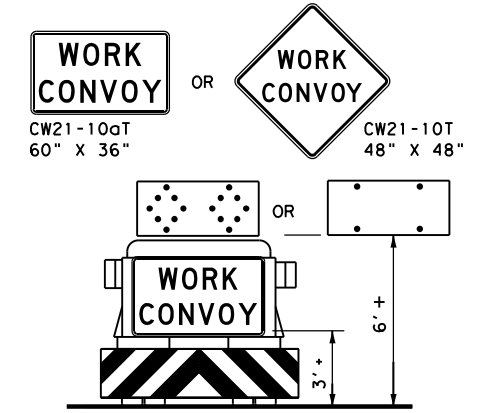


MULTILANE HIGHWAY



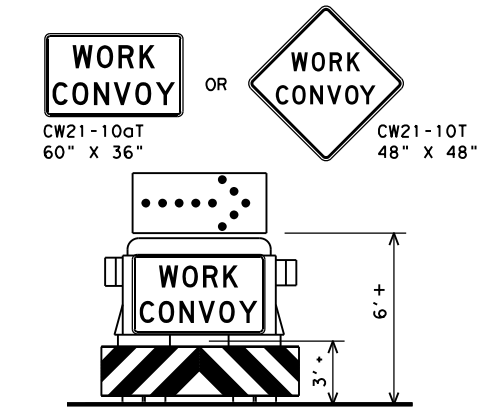
MULTILANE HIGHWAY

DATE:
FILE:



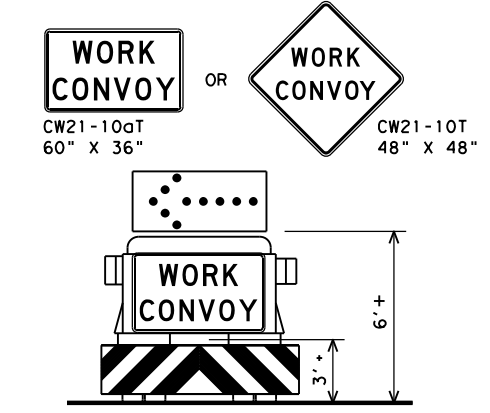
SHADOW VEHICLE A

with Flashing Arrow Board in Caution Mode



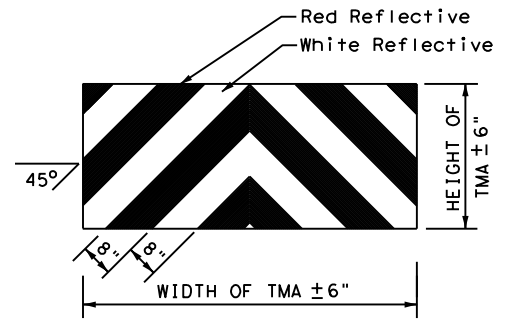
TYPICAL SHADOW VEHICLE B

with RIGHT Directional display Flashing Arrow Board



TYPICAL SHADOW VEHICLE C

with LEFT Directional display Flashing Arrow Board



STRIPING FOR TMA

LEGEND

**	Shadow Vehicle	ARROW BOARD DISPLAY	
***	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 4 Corner Flash)

TYPICAL USAGE

MOBILE	SHORT DURATION	SHORT TERM STATIONARY	INTERMEDIATE TERM STATIONARY	LONG TERM 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 sheeting with white background, placed in an inverted "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 able to see the Shadow Vehicle in time 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 not used, dual flashing beacons, mounted as high and as widely separated as practicable at the rear of the Work Vehicle shall be 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 Trail Vehicle may be added to the operation when approved by the Engineer. See TCP (3) series standards.
- The shadow vehicle may be omitted on conventional roadways when a TMA or TA and arrow panel is mounted to the herbicide vehicle. A separate shadow vehicle will be required on expressways and Freeways.



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

FILE: tcp3-5.dgn	DN: TxDOT	CK: TxDOT	DW: TxDOT	CK: TxDOT
© TxDOT July 2015	CONT	SECT	JOB	HIGHWAY
REVISIONS	6375	67	001	VARIOUS
4-18	DIST	COUNTY	SHEET NO.	
	05	LUBBOCK	6	