

STATE OF TEXAS DEPARTMENT OF TRANSPORTATION

PLANS OF PROPOSED HIGHWAY ROUTINE MAINTENANCE CONTRACT

MAINTENANCE PROJECT NO.			SHEET NO.
			1
STATE	DISTRICT	COUNTY	
TEXAS	PHARR	HIDALGO, ETC	
CONTROL	SECTION	JOB	HIGHWAY
6387	78	001	SH 495, ETC.

INDEX OF SHEETS

SHEET NO.	DESCRIPTION
1	TITLE SHEET
2	COUNTY MAP
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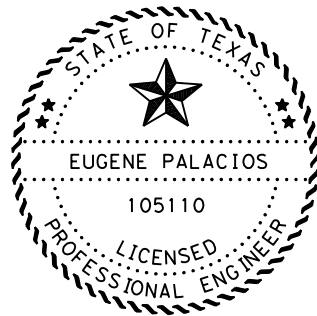
TYPE OF WORK:

Roadside Mowing and Litter Removal in Hidalgo County

PROJECT NO.: RMC 6387-78-001
 HIGHWAY: SH 495, ETC.
 LIMITS OF WORK: Various Roads in Hidalgo County
 CONTRACT MANAGER: PHARR MAINTENANCE

STATE STANDARDS

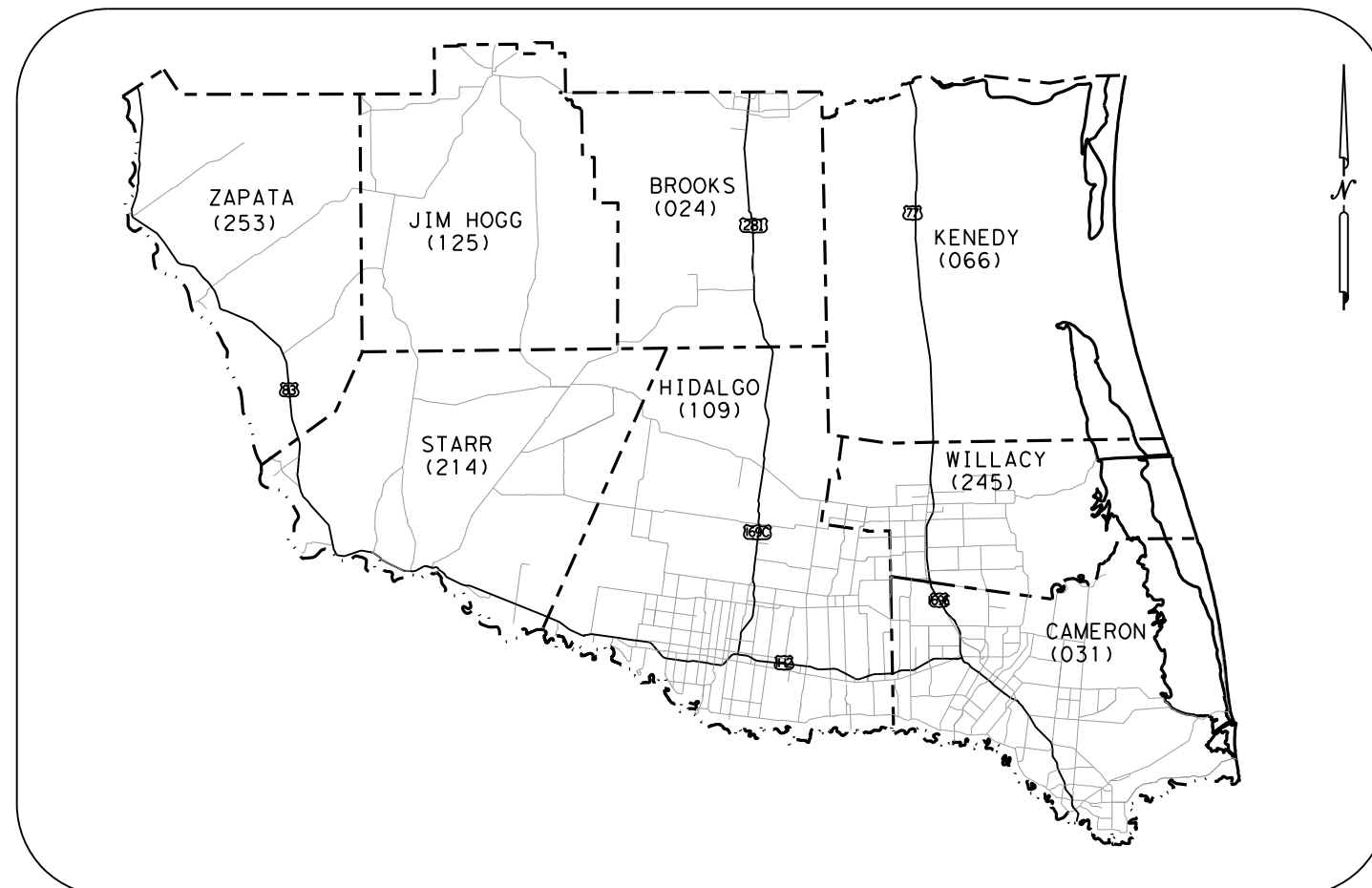
7 *RS-TCP-05



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

DocuSigned by:

 _____, P.E. 9/2/2021
8325CC1071A9427
 Signature of Registrant & Date



APPROVED FOR LETTING: DATE: 9/2/2021

DocuSigned by:

EABA335C2DAA48C
 DISTRICT ENGINEER

SUBMITTED FOR LETTING: DATE: 9/2/2021

DocuSigned by:

8325CC1071A9427
 PROJECT ENGINEER

RECOMMENDED FOR LETTING: DATE: 9/2/2021

DocuSigned by:

E353D62C01B2433
 DIRECTOR OF MAINTENANCE

REQUIRED SIGNS SHALL BE IN ACCORDANCE WITH BC (1)-14 THROUGH BC (12)-14 AND THE 'TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES'.

SPECIFICATIONS ADOPTED BY THE TEXAS DEPARTMENT OF TRANSPORTATION, NOVEMBER 1, 2014 AND THE CONTRACT PROVISIONS.

GENERAL NOTES:**PLANS ARE REQUIRED**

View plans on-line or download from the web at:

http://www.dot.state.tx.us/business/contractors_consultants/plans_online.htm

Reproduction Firms for Construction and Routine Maintenance Contracts and Informational Proposals:

http://www.dot.state.tx.us/business/contractors_consultants/repro_companies.htm**GENERAL**

This contract is based on 18 months with an average of 4 litter pickup and mowing cycles. Cycles may be increased due to the need determined by the Department's representative.

This contract will consist of 140 working days.

Each contract awarded by TxDOT 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 and all contracts at the same time.

The Contractor is to visit the site(s), make his/her own examination of the site(s) where work is to be performed. The Contractor shall carefully examine these specifications and secure from the state additional information that may be essential for a clear and full understanding of work.

The Contractor is responsible for damage to Department equipment, plants, shrubs, delineations, sign fixtures, mailboxes, etc.

The Contractor will furnish all supplies and equipment to successfully perform their duties.

All lost and found items will be turned over to the Department's Representative.

The Contractor is responsible for reporting daily any needed repairs, wash outs, cave-ins, etc. This information will be reported to the Department's representative.

All personal protective equipment (PPE) will be provided by the Contractor and worn at all times by the Contractor personnel on State R.O.W.

All mowed grass and/or debris left on pavement and curb and gutter is to be removed by the Contractor the same day of the respective tract being mowed.

All work will be scheduled and directed by the following named Maintenance Supervisor:

Pharr Maintenance

Robert De La Fuente

(956) 702-6270

ITEM 2: INSTRUCTIONS TO BIDDERS

Contractor questions on this project are to be addressed to the following individual:

Eugene Palacios, P.E., Transportation Engineer; Eugene.Palacios@txdot.gov

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/Responses/>

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.

ITEM 3: AWARD AND EXECUTION OF CONTRACT

Contract shall commence upon an initial work order. Multiple work orders will be issued during contract period.

Each work order will contain 1) begin start date, 2) specific work to be performed, and 3) allotted working days for completion.

Working days for a mowing cycle are based on an average production rate of 80 **acres per day**. Contractor is required to provide adequate equipment and resources to achieve this production rate.

Liquidated damages will be accessed for any working day charged beyond the authorized time.

ITEM 502: BARRICADES, SIGNS AND TRAFFIC HANDLING

Comply with "Roadside Traffic Control Plan"(RS-TCP-05) and the Barricade and Construction standards listed on the Title Sheet.

One high-intensity, yellow rotating dome light shall be required on all equipment such as trucks, trailers, autos, etc. (tractor and mower not required). These lights shall be mounted high enough to be visible from all directions and shall be operating when the equipment is used within the work area.

Attach two (2) safety flags to each mower. Placement shall be as directed by Department Representative.

Traffic control will not be paid for directly but shall be considered subsidiary to the various bid items.

SIGNING AND TRAFFIC CONTROL PLAN

The Contractor will comply with the latest Manual on Uniform Traffic Control Devices. Signs, sign stands and safety flags required to protect the traveling public shall be furnished by the Contractor. The Contractor will be responsible for the maintenance, repairs and replacement of all signs, and flags.

LIQUIDATED DAMAGES:

The time established for the completion of the work is an essential element of the Contract. The Contractor will be given written notification (Startup Letter) of when to begin each Mowing and/or Litter Removal cycle. Within the written notification, the Contractor will be given the number of days allowed to complete the work and the date when the time charges for Mowing and/or Litter Removal will begin. The number of days allowed to complete the cycles shall be determined based upon the minimum amount of mowing required per day.

Failure to complete the Mowing and/or Litter Removal cycle within the required number of working days specified in the written notification will result in liquidated damages for each working day charged over the number of working days specified in the Contract. The dollar amount specified in the Contract will be deducted from any money due or to become due to the Contractor for each working day in the Contract or incomplete work order. This amount will be assessed not as a penalty, but as liquidated damages.

ITEM 730: ROADSIDE MOWING

The Contractor must have no less than eight (8) mowers in operation at all times. The amount of equipment is used for information purposes only, and the State will look at production rates to determine if performance is progressing satisfactorily.

All small trees and shrubs up to 1" diameter shall be to be mowed and all trees greater than 1" diameter shall be removed prior to mowing. Tree mowing and removal will be subsidiary to Item 730, "Roadside Mowing"

Established non-mow areas are clearly marked at designated locations.

Slopes mowed with no marring to surfaces or to established vegetation.

Other construction and/or maintenance contracts may be underway on roadsides to be mowed in this contract. The engineer will determine if these roadsides are to be mowed or not and will inform the contractor through the work order. When necessary, coordinate with other contractors that are working in the area.

Spot mowing is to be determined by the Department Representative and shall be used to address safety concerns near intersections, address sight distances, etc. The frequency is on a call out basis by the Department Representative. Litter is to be picked up prior to mowing and considered subsidiary to Item 730. The minimum acres per call out are 4 acres.

Drain ditches shall be mowed under the respective cycle. The Contractor shall provide mowing equipment to mow slopes without damage to the drain ditch up to the current water's edge at the time of mowing. In the event that the drain ditch is dry, the Contractor shall mow the bottom width (horizontal flat area) of the drain ditch. The quantity of mowing includes the side slopes, flat bottom width as well as the top bank area up to the right of way line.

Contractor shall utilize 5' mower where ROW is reduced or batwing will overlap onto pavement. Contractor shall take precaution to prevent debris from being thrown onto pavement and creating safety concerns.

ITEM 734: LITTER REMOVAL

Litter shall be paid after the respective area has been mowed. The right of way shall be clean with no or very minor litter.

Mowed over debris that creates a large amount of debris shall be picked up by the Contractor within the same day of mowing or no later than the next day. The Contractor shall use their judgment when to perform litter pick-up operations.



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GENERAL NOTES

FED. RD. DIV. NO.		MAINTENANCE PROJECT NO.				SHEET NO.
TEXAS						3
STATE	DIST	COUNTY	CONT	SECT	JOB	HIGHWAY
TEXAS	21	HIDALGO	6387	78	001	SH495, ETC

ESTIMATE & QUANTITY SHEET

HIDALGO COUNTY

CONTRACT #: 6387-78-001
 CONTRACT MANAGER: Pharr Maint.

EDCOUCH MAINTENANCE


HIGHWAY	TRACT NO.	LIMITS	FROM R.M.	TO R.M.	LENGTH MILES	FULL-WIDTH MOWING			LITTER REMOVAL		
						CYCLES OF FULL-WIDTH MOWING	ACRES PER TRACT FULL-WIDTH MOWING	TOTAL ACRES FULL-WIDTH MOWING	CYCLES OF LITTER REMOVAL	ACRES PER TRACT LITTER REMOVAL	TOTAL ACRES LITTER REMOVAL
FM 491	1	From Hidalgo/Willacy County Line West & South to US 83 Expwy	716	737	20.70	4	92.92	371.68	4	92.92	371.68
FM 491	2	From US 281 North to 3.3 miles	737	743	3.30	4	12.80	51.20	4	12.80	51.20
FM 1425	3	From FM 2629 to BUS 83	716	731	14.00	4	104.12	416.48	4	104.12	416.48
FM 2629	4	From FM 491 to FM 1425	532	535	2.10	4	15.27	61.08	4	15.27	61.08
FM 88	5	From 18th Street to US 281 Military	730	734	3.80	4	33.16	132.64	4	33.16	132.64
FM 88	6	From .25 miles South of SH 107 to R.M. 726	718	726	7.00	4	13.58	54.32	4	13.58	54.32
FM 1015	7	From Malone Drive to South Levee	----	----	1.20	4	11.64	46.56	4	11.64	46.56
FM 1015	8	From Hidalgo/Willacy County Line to BUS 83	706	726	19.40	4	79.81	319.24	4	79.81	319.24
FM 2812	9	From FM 493 East to Fm 88	525	530	3.50	4	13.58	54.32	4	13.58	54.32
FM 88	10	From Hidalgo/Willacy County Line South to 1 mile South of FM 1925	708	718	10.00	4	65.45	261.80	4	65.45	261.80
FM 1925	11	From FM 493 East to FM 491 "Skip FM 1015"	522	529	6.20	4	28.56	114.24	4	28.56	114.24
SH 107	12	From County Line to Edcouch Section Office Curb & Gutter Ends	536	542	9.20	4	67.47	269.88	4	67.47	269.88
SH 107	13	From Curb & Gutter Ends in Elsa to FM 493	530	532	2.40	4	10.67	42.68	4	10.67	42.68
FM 1422	14	From FM 88 East to FM 491	528	533	4.90	4	38.01	152.04	4	38.01	152.04
FM 1921	15	From FM 1015 East to FM 1425	532	536	4.00	4	29.09	116.36	4	29.09	116.36
US 281	16	From FM 493 to Hidalgo/Cameron County Line	800	812	12.40	4	87.61	350.44	4	87.61	350.44
BU 83	17	From FM 1015 (Weslaco) East to Hidalgo/Cameron County Line except C & G	528	535	4.70	4	36.75	147.00	4	36.75	147.00
FM 1015	18	From .2 miles South of BUS 83 "Real Viejo St." to Progreso Bridge	728	733	5.90	4	19.59	78.36	4	19.59	78.36
BU 83	19	From West gate to FM 493	524	526	2.20	4	7.47	29.88	4	7.47	29.88
SH 186	20	From US 281 East to Hidalgo/Willacy County Line	518	528	9.40	4	63.81	255.24	4	63.81	255.24
(^) FM 493	21	From SH 186 South to FM 1925	704	716	12.00	4	53.82	215.28	4	53.82	215.28
FM 490	22	From US 281 to Willacy/Hidalgo C.L.	519	530	9.70	4	36.70	146.80	4	36.70	146.80
FM 2812	23	FR US 281 E. TO FM 493	518	525	7.20	4	27.93	111.72	4	27.93	111.72
FM 3071	24	From 1925 South to Mile 17 North Road	716	717	0.90	4	3.93	15.72	4	3.93	15.72
TOTAL					176.10		953.74	3814.96		953.74	3814.96

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ESTIMATE & QUANTITY SHEET

FED. RD. DIV. NO.		MAINTENANCE PROJECT NO.				SHEET NO.
TEXAS						4
STATE	DIST	COUNTY	CONT	SECT	JOB	HIGHWAY
TEXAS	21	HIDALGO	6387	78	001	SH495, ETC

MISSION MAINTENANCE

HIGHWAY	TRACT NO.	LIMITS	FROM R.M.	TO R.M.	LENGTH MILES	FULL-WIDTH MOWING			LITTER REMOVAL		
						CYCLES OF FULL-WIDTH MOWING	ACRES PER TRACT FULL-WIDTH MOWING	TOTAL ACRES FULL-WIDTH MOWING	CYCLES OF LITTER REMOVAL	ACRES PER TRACT LITTER REMOVAL	TOTAL ACRES LITTER REMOVAL
FM 2062	1	From BUS 83 to Military Rd East	724	727	2.40	4	11.64	46.56	4	11.64	46.56
FM 1427	2	From BUS 83 South to 4.60 miles	498	505	4.60	4	11.15	44.60	4	11.15	44.60
BUS 83	3	From Inspiration Rd North to 3.50 miles, R.R. Track side only	500	504	3.50	4	10.18	40.72	4	10.18	40.72
BUS 83	4	From 3.50 miles North of Inspiration Rd North to US 83	498	500	2.00	4	14.55	58.20	4	14.55	58.20
FM 492	5	From FM 2221 South to BU 83S	716	724	6.60	4	30.91	123.64	4	30.91	123.64
(#) FM 2221	6	From US 83 North & East to 2.7 miles West of FM 492	496	506	9.70	4	89.36	357.44	4	89.36	357.44
SH 364	7	From FM 2221 South to FM 676 "5 Mile Line"	714	718	2.00	4	8.73	34.92	4	8.73	34.92
FM 1925	8	From FM 681 to FM 2220	504	510	5.70	4	27.64	110.56	4	27.64	110.56
FM 2993	9	From FM 1925 South to SH 107	714	717	3.00	4	12.36	49.44	4	12.36	49.44
SH 107	10	From .5 miles North of FM 495 North and East to FM 2220	505	516	16.30	4	82.80	331.20	4	82.80	331.20
FM 676	11	From FM 492 Taylor Road "Skip Curb & Gutter in the City of Alton"	502	509	4.20	4	16.29	65.16	4	16.29	65.16
FM 886	12	From US 83 South to End of State Maintenance	718	720	1.80	4	9.60	38.40	4	9.60	38.40
FM 2058	13	From FM 490 South to FM 681	704	710	5.80	4	30.93	123.72	4	30.93	123.72
FM 681	14	From FM 490 South to SH 107	700	721	17.10	4	78.21	312.84	4	78.21	312.84
FM 2221	15	From 2.7 miles West of FM 492 East to FM 681	506	510	4.70	4	19.37	77.48	4	19.37	77.48
FM 3250	16	From FM 1017 South to End of State Maintenance	698	702	3.80	4	44.22	176.88	4	44.22	176.88
FM 681	17	From FM 1017 to FM 490	692	701	11.70	4	62.40	249.60	4	62.40	249.60
FM 494	18	From SH 107 South to FM 1924	716	722	4.30	4	15.64	62.56	4	15.64	62.56
FM 494	19	From FM 1016 loop around to FM 1016	728	732	4.00	4	24.24	96.96	4	24.24	96.96
FM 1017	20	From Starr/Hidalgo County Line East to US 281	706	726	19.30	4	84.22	336.88	4	84.22	336.88
FM 490	21	From Starr/Hidalgo County Line to US 281	498	519	18.50	4	102.08	408.32	4	102.08	408.32
TOTAL					151.00		786.52	3146.08		786.52	3146.08

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ESTIMATE & QUANTITY SHEET						
FED. RD. DIV. NO.		MAINTENANCE PROJECT NO.			SHEET NO.	
TEXAS					5	
STATE	DIST	COUNTY	CONT	SECT	JOB	HIGHWAY
TEXAS	21	HIDALGO	6387	78	001	SH495, ETC

PHARR MAINTENANCE

FULL-WIDTH MOWING

LITTER REMOVAL

HIGHWAY	TRACT NO.	LIMITS	FROM R.M.	TO R.M.	LENGTH MILES	FULL-WIDTH MOWING			LITTER REMOVAL		
						CYCLES OF FULL-WIDTH MOWING	ACRES PER TRACT FULL-WIDTH MOWING	REVISED TOTAL ACRES FULL-WIDTH	CYCLES OF LITTER REMOVAL	ACRES PER TRACT LITTER REMOVAL	TOTAL ACRES LITTER REMOVAL
(*) FM 1423	1	FR SH 107 S. TO END OF STATE MAINT.	716	725	9.65	4	37.73	150.92	4	37.73	150.92
FM 1426	2	FR SH 107 S. TO FM 3461	716	720	4.70	4	9.75	39.00	4	9.75	39.00
FM 1925	3	FR FM 2220 E. TO FM 2061	510	513	3.40	4	15.66	62.64	4	15.66	62.64
FM 1925	4	FR BUS 281 E. TO FM 493	515	522	7.40	4	28.70	114.80	4	28.70	114.80
FM 2061	5	FR 1. mile N. FLOODWAY LEVEE S TO FM 3072 "Dicker Rd"	728	729	2.40	4	9.27	37.08	4	9.27	37.08
FM 2061	6	FR FM 3072 "Dicker Rd." S. TO US 281	729	731	2.00	4	4.85	19.40	4	4.85	19.40
FM 2128	7	FR US 281 E. TO SH 107	516	520	3.40	4	4.53	18.12	4	4.53	18.12
FM 2220	8	FM 1925 to Auburn St.	714	718	4.00	4	22.80	91.20	4	22.80	91.20
FM 2557	9	FR .5 MI S. OF BUS 83 S. TO US 281	725	732	6.30	4	26.18	104.72	4	26.18	104.72
FM 3072	10	FR I RD E. TO FM 907	514	517	2.80	4	12.22	48.88	4	12.22	48.88
FM 493	11	FR US 281 North to Champion .5 miles South of BUS 83	726	732	6.20	4	28.51	114.04	4	28.51	114.04
FM 493	12	From FM 1925 South to US 83	716	726	9.50	4	37.82	151.28	4	37.82	151.28
FM 907	13	FM 1925 to Nolana Lp.	714	720	7.00	4	29.85	119.40	4	29.85	119.40
FM 907	14	From Bethany St. to US 281	728	732	5.40	4	20.36	81.44	4	20.36	81.44
SH 107	15	FR FM 2220 TO FM 2061	515	520	3.30	4	24.00	96.00	4	24.00	96.00
SH 107	16	Yes th	524	530	10.70	4	53.41	213.64	4	53.41	213.64
US 281	17	FR FM 493 W. TO McColl Rd.	790	798	10.60	4	51.39	205.56	4	51.39	205.56
SH 336	18	FR COL. ROWE STREET (2ND ST.) TO PRODUCE RD.	726	731	4.70	4	46.06	184.24	4	46.06	184.24
FM 1016	19	FR SH 336 TO SS 115	731	732	0.90	4	3.71	14.84	4	3.71	14.84
US 281	20	FR Moore Road to SS 600	785	789	4.20	4	30.84	123.36	4	30.84	123.36
SH 495	21	FR FM 1426 East to FM 1423	517	521	4.20	4	8.15	32.60	4	8.15	32.60
BUS 83	22	FR FM 2557 E. TO .213 MILES W. OF RM 522 (1ST STREET)	516	522	5.20	4	20.17	80.68	4	20.17	80.68
SS115	23	FR END OF C & G TO COMA ST.	726	730	7.90	4	93.81	375.24	4	93.81	375.24
UP 281	24	From Coma St. South to State Maintenance Ends	792	794	1.10	4	12.25	49.00	4	12.25	49.00
TOTAL					126.95		632.02	2528.08		632.02	2528.08

Note: The warning signs will be adjusted as the work progresses to keep them in reasonable proximity of the work area. "Mowers Ahead" sign is intended for use in advance of mowing operations on the right-of-way.

Total Acreage
Full Width: 9,489.12
Litter Removal: 9,489.12
Spot Mowing: 100

Texas Department of Transportation
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ESTIMATE & QUANTITY SHEET

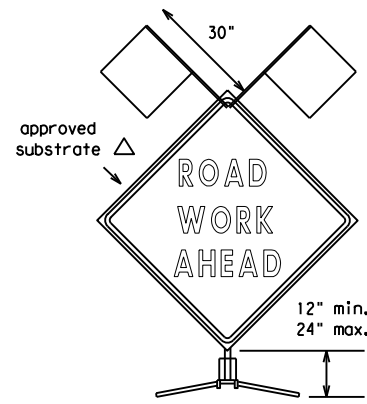
FED. RD. DIV. NO.		MAINTENANCE PROJECT NO.				SHEET NO.
TEXAS						6
STATE	DIST	COUNTY	CONT	SECT	JOB	HIGHWAY
TEXAS	21	HIDALGO	6387	78	001	SH495, ETC

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.

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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	

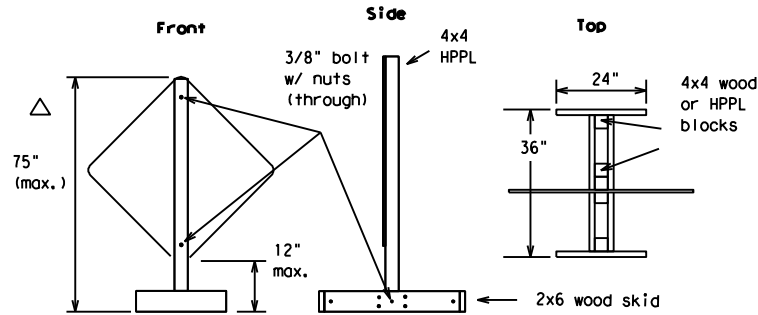
EXAMPLES OF SIGN SUPPORTS

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

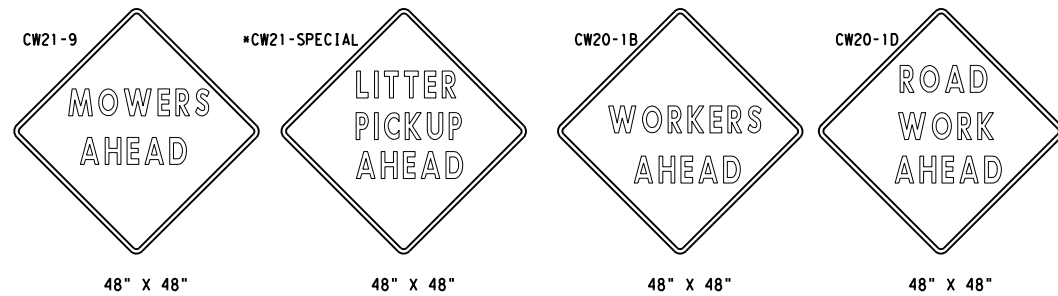


The upright SHALL be made of hollow-profile plastic lumber (HPPL). Wood or metal shall NOT be used.

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.



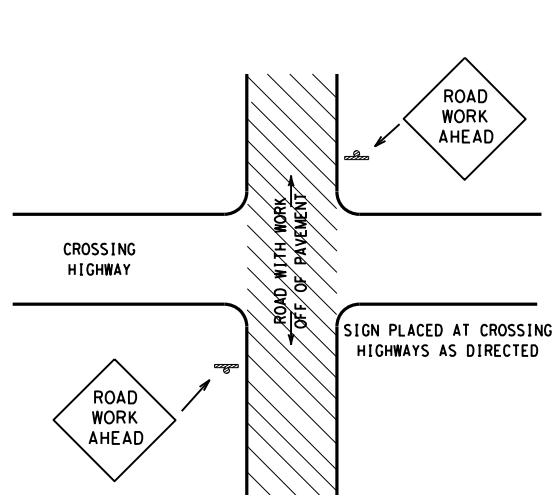
SIGN IN ACCORDANCE WITH THE TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS

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

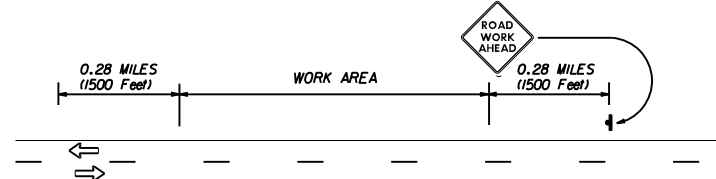
WORK AREA IS A MAXIMUM OF 2.0 MILES UNLESS OTHERWISE DIRECTED. SIGNS MAY REMAIN IN PLACE ONLY DURING DAYLIGHT HOURS.

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

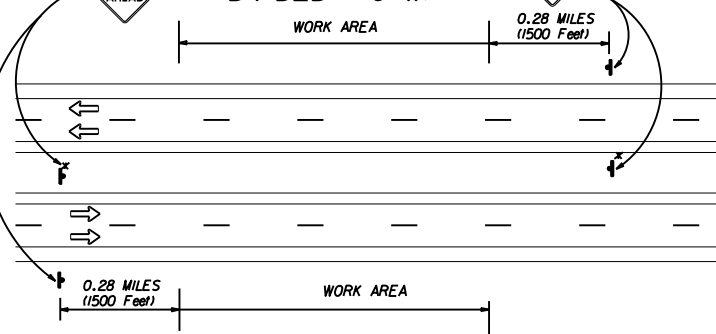
ROAD WORK AHEAD SIGNS SHOWN AS EXAMPLES, ONE OF THE FOUR TYPE SIGNS WILL BE USED AS DIRECTED.

* 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	CR: JG	DR: -	CR: -	NEG NO: -
© TxDOT FEBRUARY 2005		STATE DISTRICT	FEDERAL REGION	FEDERAL AID PROJECT	SHEET
REVISED: September 17, 2004	21	6			7
REVISED: FEBRUARY 2, 2005 Sign placement in TCP	COUNTY	CONTROL	SECTION	JOB	HIGHWAY
REVISED:	HIDALGO	6387	78	001	SH 495, ETC.