

Project Number: RMC 6447-00-001	Control: 6447-00-001
County: SAN AUGUSTINE	Highway: SH 103, ETC.

GENERAL NOTES: Project Description: This project consists of performing tree trimming and brush removal as well as tree removal on various roads in the San Augustine County Maintenance Section.

TxDOT Project Supervisors: All work on this contract will be scheduled and directed by the Maintenance Section Supervisor(s) listed below. Payment will be made on a monthly basis for work completed and accepted according to specifications. All payment requests should be directed to the Maintenance Section Supervisor(s) listed below.

COUNTY	SUPERVISOR	ADDRESS	CONTACT #
		551 S. El Camino Crossing	
San Augustine	Scott Duffey	San Augustine, TX 75972	(936) 275-9671

Contract Prosecution: 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.

Existing regulatory, warning and guide signs within project limits are to always remain visible to the traveling public. If a sign must be repositioned during construction operations, move and install the sign to an approved location. Use care when working near existing signs and repair or replace signs damaged by work operations. All work involved repositioning existing signs will be subsidiary to various bid items.

There is a potential for work to be done in environmentally sensitive areas within these maintenance sections. All work shall be performed as directed by the appropriate Maintenance Section Supervisor to avoid impacts to these areas.

Minimize vehicles and equipment in construction areas to lessen the impact on existing vegetation. The intent of the plans is to prepare only that portion of TxDOT right-of-way necessary for construction.

All workers on TxDOT right-of-way shall wear reflective clothing meeting ANSI Class II requirements during the day and ANSI Class III requirements during the night. Only workers actively engaged in the operation of a chainsaw, clipper, or similar device shall be exempt from wearing safety vests. Non-compliance with any of these requirements shall be grounds for suspension of work.

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

Jeremy King Jeremy.King@TxDOT.gov Tamara Gibson Tamara.Gibson@TxDOT.gov

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

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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.

Item 2: Instructions to Bidders

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

http://www.txdot.gov/business/contractors_consultants/plans_online.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

Item 7: Legal Relations and Responsibilities

The proposed work of this project is the removal and trimming of trees and brush at various roadways that are hazardous, dying, or protruding into State right-of-way. This activity maintains the original line and grade, hydraulic capacity, and original purpose of the site. Therefore, this project meets the definition of a routine maintenance activity as defined in the TPDES General Permit No. TXR150000 issued March 5, 2023, and TCEQ's TPDES CGP does not apply.

Dispose of all vegetative matter and any other materials removed from State Right of Way in accordance with applicable environmental laws, rules, regulations, and requirements.

In order to maintain compliance with Chapter 64 of the Texas Parks and Wildlife Code and Migratory Bird Treaty Act (MBTA), construction activities that may affect nests (i.e. tree removal, tree liming, bridge work) shall be conducted outside of the nesting season (March 15 to September 15). In the event birds or active nests (eggs and/or nestlings present) are encountered, contact the engineer prior to conducting work

Contractor to repair or replace in kind, at their own expense, any historic materials damaged (buildings, historical markers, etc.) while executing the work. Contractor is responsible for locating replacement source for historic materials damaged during the

work. TxDOT-Environmental Affairs Division is to be informed of proposed repairs to facilitate consultation with Texas Historical Commission prior to execution of repairs.

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Portions of State Highway (SH) 103, SH 147, Farm-to-Market (FM) 1279, FM 353, FM 1992, FM 1277, FM 2923, FM 3185, FM 2851, FM 2558, FM 2390, FM 2189, FM 705, FM 83, FM 3173, and 3127 in San Augustine County pass through compartments of the Sabine and Angelina National Forest.

- No trees along the above roadways are to be cut or otherwise damaged without prior approval from United States Forest Service and Area Engineer.
- Area Engineer shall notify the U.S. Forest Service prior to commencing work on the above roadway locations.
- Do not fell trees within US Forest Service boundary without prior approval. Timber cut within US Forest Service boundary remains the property of the US Forest Service and may require measured lengths to be cut or for trees to be felled entirely onto US Forest Service land. Such requirements will not be paid for directly but be subsidiary to bid items.

Red-cockaded woodpecker (federally listed endangered species) habitat is present adjacent to the ROW along SH 103, SH 147, and FM 1992. No trees along these highways are to be cut or otherwise damaged without prior approval from the Lufkin District ENV and Area Engineer.

Texas golden glade cress (federally listed endangered species) Critical Habitat is present within the ROW along SH 21 from 0.5 mi East of LP 547 to 1.2 mi East of LP 547; along FM 353 from 0.8 mi East of SH 147 to 1.02 mi East of SH 147; along FM 3483 from 0.16 mi South of SH 21 to 0.63 mi South of SH 21 and from 0.82 mi South of SH 21 to 0.90 mi South of SH 21. Tree and brush removal or trimming activities in these areas shall be conducted when plants are dormant from September 15 to January 1.

White bladderpod (federally listed endangered species) is present within the ROW along SH 21 from 1.20 mi West of FM 354 to 1.14 mi West of FM 354 and along FM 3483 from 0.82 mi South of SH 21 to 0.90 mi South of SH 21. Tree and brush removal or trimming activities in these areas shall be conducted when plants are dormant from September 15 to January 1.

Item 8: Prosecution and Progress

Contract Time – The number of working days for this project shall be 365 days or until contract funds are expended.

For this project, working days will be computed and charged in accordance with Item 8, Section 3.1.5, "Calendar Days".

This contract includes callout work; the number of working days will be established in each work order.

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The Engineer will specify the number of working days granted for each work order based on a percentage of the dollar amount of the work order versus the total dollar amount of the contract or based on typical production rates for the work ordered.

The Contractor shall be on site within 48 hours for emergency work orders or within <u>five</u> <u>business days</u> for regular work orders.

Verbal notification may be given for the work orders above; however, written notification will be delivered electronically following the verbal notification. Written notification will state the date of verbal approval to begin work.

Notify the Engineer at least 24 hours before proceeding with planned work activities to the requesting Maintenance Section or appropriate contact person. Any work performed without proper notification will not be eligible for payment.

Perform work only as directed by a work order. Any work performed at locations not covered by a work order will not be paid for, unless directly authorized.

In accordance with Article 8.6 "Failure to Complete the Work on Time", liquidated damages will be charged for failure to complete each work order in the specified number of days. The

Liquidated Damage amount to be assessed per day, until the work is completed will be 1% of the estimated cost of the Work Order, but not less than \$50 per day and not to exceed \$200 per day.

Item 9: Measurement and Payment

This Contract includes callout work. In accordance with Article 9.2., "Plans Quantity Measurement", plans quantity measurement requirements are not applicable. The quantities shown are for estimates only and payment will be based on the actual quantities placed.

NONCOMPLIANCE PENALTY – A penalty will be assessed for each instance the contractor is in noncompliance. A noncompliance instance is defined by the following:

- The contractor fails to begin work at the specified time and/or location(s).
- The contractor does not have all the personnel and pieces of equipment necessary to fulfill of the item(s) called out at the specified time and/or location(s).
- The contractor does not complete the work continuously, unless approved by the Engineer.

The Noncompliance Penalty will be deducted from any money due or to become due for any completed item(s) of work. The Noncompliance Penalty will be assessed as follows: \$250 per instance, per location.

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Item 502: Barricades, Signs and Traffic Handling

Traffic Control Plan (TCP):

Ensure the Contractor's Responsible Person (CRP) or their alternate for Barricades, Signs and Traffic Handling is always available and able to receive instructions from the Engineer or authorized Department representative. The CRP shall be a person that is usually at the project site during normal working hours.

Furnish and maintain all warning signs, flaggers, channelizing devices, etc. required for traffic control on this contract in accordance with Item 502.1 & 502.2. This work will not be paid for directly but will be considered subsidiary to the various bid items.

For protection of the traveling public, direct traffic through the work area using signs, flaggers and other devices. Required signs are shown in the plans on the Barricade and Construction Standards and Traffic Control Plan Sheets. The latest edition of the "Texas Manual on Uniform Traffic Control Devices" shall also be used as a guide for handling traffic on this project.

Texas Transportation Code 547.105 authorizes the use of warning lights to promote safety and provides an effective means of gaining the travelling public's attention as they drive in areas where construction crews are present. In order to influence the public to move over when high risk construction activities are taking place, minimize the utilization of blue warning lights. These lights must be used only while performing work on or near the travel lanes or shoulder where the travelling public encounters construction crews that are not protected by a standard work zone set up such as a lane closure, shoulder closure, or one-way traffic control. Refrain from leaving the warning lights engaged while travelling from one work location to another or while parked on the right of way away from the pavement or a work zone.

Restrict construction work to single lane widths with only minor disruptions in traffic flow. Lane closures shall conform to the traffic control plan for lane closures as shown in the plans. No overnight closures will be permitted.

Provide temporary Rumble Strips as shown on Work Zone Standards when lane closures are necessary.

Provide a flashing arrow panel and a truck-mounted attenuator to supplement required signs and devices for each lane closure.

Provide adequate flaggers to protect the traveling public. All flaggers shall wear approved hardhats and reflective safety vests while flagging. Safety vests shall be clean and worn fully fastened.

Install "Be Prepared to Stop" (CW20-7B) and "Flagger Ahead" (CW22-7D) signs when flaggers are present. Position the signs where good visibility and traffic control can be maintained.

Provide one high-intensity yellow, rotating dome-light on all equipment such as distributors, spreader boxes, lay-down machines, rollers, backhoes, road graders, loaders, etc.

General Notes

Sheet 2B

Mount lights high enough to be visible from all directions and operating when the equipment is within 30 ft. of the travel way. On all other equipment such as trucks, trailers, automobiles, etc., use emergency flashers while within the work zone.

The Contractor Force Account "Safety Contingency" that has been established for this project is intended to be utilized for work zone enhancements, to improve the effectiveness of the Traffic Control Plan, that could not be foreseen in the project planning and design stage. These enhancements will be mutually agreed upon by the Engineer and the Contractor's Responsible Person based on weekly or more frequent traffic management reviews on the project. The Engineer may choose to use existing bid items if it does not slow the implementation of enhancement.

Item 752: Tree and Brush Removal

All work, except emergency work, is to be completed between September 15th and March 15th to ensure compliance with the Migratory Bird Treaty Act (MBTA). Emergency work is any work required to eliminate a potential hazard(s) to the traveling public or from causing property damage.

The Contractor shall become knowledgeable of the location of utilities within the right-of-way and shall use care when working near them.

The Contractor shall be responsible for contacting all utility companies and locating all underground utilities prior to stump grinding and/or other excavating. The Contractor shall use care when working near these utilities so as not to damage them.

Trees to be removed shall be marked by the State with a red, white or orange "X", painted on the trunk.

Remove trees as designated. After the removal of the designated trees, the Contractor may move out, and the remaining tree removal for this contract will be used on an as needed basis. The Engineer will send the Contractor written notification requiring him to move in and begin tree removal each time there are a minimum of 10 trees to be removed and mobilization will be paid for on a callout basis. After completion of the required tree removal the Contractor may again move out, and this procedure will continue for the duration of the contract.

Pick up and remove or chip/mulch all trees and limbs felled from right-of-way on the same day, unless otherwise approved.

If the trees and limbs are chipped/mulch, the chips must be spread evenly near the ROW line (typically the wood line on the back slope of the ditch). Do not place chips in the ditch line. In areas with driveways or cross culvert, consult the Engineer prior to chipping for an approved location.

Remove trees that are already down in the right-of-way. Cut and measure trees that have fallen from private property at the right-of-way line. These trees will be paid for in the same manner as trees that are to be felled and removed.

General Notes

Sheet 2B

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Grind all limbs and protruding roots. Grind all stumps to level. Backfill any resulting holes to the level of the surro Engineer, stumps on back slope cannot be ground, trees s ground line.	ounding ground. If, in the opinion of the		
Remove a tree in increments when cutting the trees at gro utility lines or damage private property.	ound level may endanger overhead		
Removal of brush, limbs, debris, and trees less than 4 inc and will be subsidiary to Item 752.	hes in diameter are considered brush		
Trees that have fallen onto the right-of-way from private right-of-way line.	property will be cut and measured at the		

The Contractor will be required to furnish materials and make repairs to the existing roadway and right-of-way, including rutting, at any location damaged by the Contractor's operations. This work shall be done in a manner satisfactory to the Engineer and will be considered subsidiary to various bid items.

Item 6185: Truck Mounted Attenuator (TMA) and Trailer Attenuator (TA)

Truck Mounted Attenuators (TMA's) shall meet the requirements of this item and the Department's Compliant Work Zone Traffic Control Device List.

Truck Mounted Attenuators (TMA's) as shown on the TCP's shall be used. Whether shown on the TCP's or added by the Department, TMAs shall be paid for under Item 6185, "Truck Mounted Attenuator" for the type of operation being performed.

Estimate & Quantity Sheet

COUNTY San Augustine

Texas Department of Transportation

DISTRICT Lufkin HIGHWAY SH0103

		CONTROL	SECTION JOB	6447-0	0-001		
			PROJECT ID	A0019	8789		
			COUNTY	San Aug	Justine	TOTAL EST.	TOTAL FINAL
			HIGHWAY	SH0:	SH0103		
ALT	BID CODE	DESCRIPTION	UNIT	EST.	FINAL		
	500-6033	MOBILIZATION (CALLOUT)	EA	6.000		6.000	
	752-6003	TREE TRIMMING / BRUSH REMOVAL	м	6.000		6.000	
	752-6005	TREE REMOVAL (4" - 12" DIA)	EA	300.000		300.000	
	752-6006	TREE REMOVAL (12" - 18" DIA)	EA	200.000		200.000	
	752 - 6007	TREE REMOVAL (18" - 24" DIA)	EA	200.000		200.000	
	752-6008	TREE REMOVAL (24" - 30" DIA)	EA	100.000		100.000	
	752-6009	TREE REMOVAL (30" - 36" DIA)	EA	25.000		25.000	
	752-6010	TREE REMOVAL (36" - 42" DIA)	EA	25.000		25.000	
	752-6011	TREE REMOVAL (42" - 48" DIA)	EA	25.000		25.000	
	752-6012	TREE REMOVAL (48" - 60" DIA)	EA	25.000		25.000	
	6185-6002	TMA (STATIONARY)	DAY	20.000		20.000	

CONTROLLING PROJECT ID 6447-00-001



Report Generated By: txdotconnect_internal_ext

DISTRICT	COUNTY	CCSJ	SHEET
Lufkin	San Augustine	6447-00-001	3

SUMMARY OF TREE REMOVAL ITEMS									
ITEM NO.	752 6003	752 6005	752 6006	752 6007	752 6008	752 6009	752 6010	752 6011	752 6012
LOCATION	TREE TRIMMING / BRUSH REMOVAL	TREE REMOVAL (4"-12" DIA)	TREE REMOVAL (12"-18" DIA)	TREE REMOVAL (18"-24" DIA)	TREE REMOVAL (24"-30" DIA)	TREE REMOVAL (30"-36" DIA)	TREE REMOVAL (36"-42" DIA)	TREE REMOVAL (42"-48" DIA)	TREE REMOVAL (48"-60" DIA)
	MI	EA	EA	EA	EA	EA	EA	EA	EA
VARIOUS	6	300	200	200	100	25	25	25	25

SUMMARY OF TRAFFIC CON	ITROL ITEMS
	*ITEM 6185
LOCATION	TMA (STATIONARY)
	DAY
VARIOUS	20
* USE TMA WHEN REQUIRED TO DO SO	

AS OUTLINED BY TCP STANDARDS.

QUANTITY SUMMARIES

COUNTY

LFK SAN AUGUSTINE

HIGHWAY

SHEET NO.

4

SH 103, ETC.

Texas Department of Transportation® CONT SECT JOB 6447 00 001

2023

NOTE: ALL QUANTITIES ARE AN ESTIMATE AND SHALL BE VERIFIED IN THE FIELD PRIOR TO BEGINNING OF WORK. NO GUARANTEES ARE MADE AS TO THE AMOUNT OF WORK WHICH WILL BE PERFORMED AT EACH LOCATION. DIST

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 The Barricade and Construction Standard Sheets (BC sheets) are intended to show typical examples for placement of temporary traffic control devices, construction pavement markings, and typical work zone signs. The information contained in these sheets meet or exceed the requirements shown in the "Texas Manual on Uniform Traffic Control Devices" (IMUTCD). The development and design of the Traffic Control Plan (TCP) is the responsibility of the Engineer. The Contractor may propose changes to the TCP that are signed and sealed by a licensed professional engineer for approval. The Engineer may develop, sign and seal Contractor proposed changes. The Contractor is responsible for installing and maintaining the traffic control devices as shown in the plans. The Contractor may not move or change the approximate location of any device without the approval of the Engineer. Geometric design of lane shifts and detours should, when possible, meet the applicable design criteria contained in manuals such as the American Assolition of starthighway and Tranportation Officials (ASHO), "A Policy on Genetric Design of Highways and Streets," the TADOT 'Roadway Design Manual' or engineering judgment. When projects abut, the Engineer (s) may amit the END ROAD WORK, TAFFIC FINES DUBLE, and other advance warning signs if the signing would be redundant and the work areas appear continuous to the motorists. If the adjacent project is completed first, the Contractor shall erect the necessary warning signs as shown on these sheets, the TCP sheets or as directed by the Engineer. The BECIN ROAD WORK NEXT MILES sign details not shown in this manual shall be shown in the plans or the Engineer shall provide digity sign Designs for Texas," latest edition. Sign details not shown in this manual shall be shown in the plane or the Engineer shall provide a detail to the Contractor before the sign is manufactured. The temporary traffic control devices shown in t		BARRICADE AND CONSTRUCTION (BC) STANDARD SHEETS GENERAL NOTES:
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 FINES DOUBLE, and other advance warning signs if the signing would be redundant and the work areas appear continuous to the motorists. If the adjacent project is completed first, the Contractor shall erect the necessary warning signs as shown on these sheets, the TCP sheets or as directed by the Engineer. The BEGIN ROAD WORK NEXT X MILES sign shall be revised to show appropriate work zone distance. 7. The Engineer may require duplicate warning signs on the median side of divided highways where median width will permit and traffic volumes justify the signing. 8. All signs shall be constructed in accordance with the details found in the "Standard Highway Sign Designs for Texas," latest edition. Sign details not shown in this manual shall be shown in the plans or the Engineer shall provide a detail to the Contractor before the sign is manufactured. 9. The temporary traffic control devices shown in the illustrations of the BC sheets are examples. As necessary, the Engineer will determine the most appropriate traffic control devices to be used. 10. Where highway construction or maintenance work is being undertaken, other than mobile operations as defined by the Texas Manual on Uniform Traffic Control Devices, CSJ limit signs are required. CSJ limit signs are shown on BC(2). The OBEY WARNING SIGNS STATE LAW sign, STAY ALERT TALK OR TEXI LATER and the WORK ZONE TRAFFIC FINES DOUBLE sign with plaque shall be erected in advance of the CSJ limits. The BEGIN ROAD WORK NEXT X MILES, CONTRACTOR and END ROAD WORK signs shall be erected or near the CSJ limits. For mobile operations, CSJ limit signs are not required. 11. Traffic control devices should be in place only while work is actually in progress or a definite need exists. 12. The Engineer has the final decision on the location of all traffic control devices. 13. Inactive equipment and work vehicles, including workers' private vehicles must be parked away from travel lanes. They should be ab crise to	5.	applicable design criteria contained in manuals such as the American Association of State Highway and Transportation Officials (AASHTO), "A Policy on Geometric Design of Highways and Streets," the TxDOT "Roadway
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	13.	must be parked away from travel lanes. They should be as close to the right-of-way line as possible, or located behind a barrier or guardrail,

WORKER SAFETY NOTES:

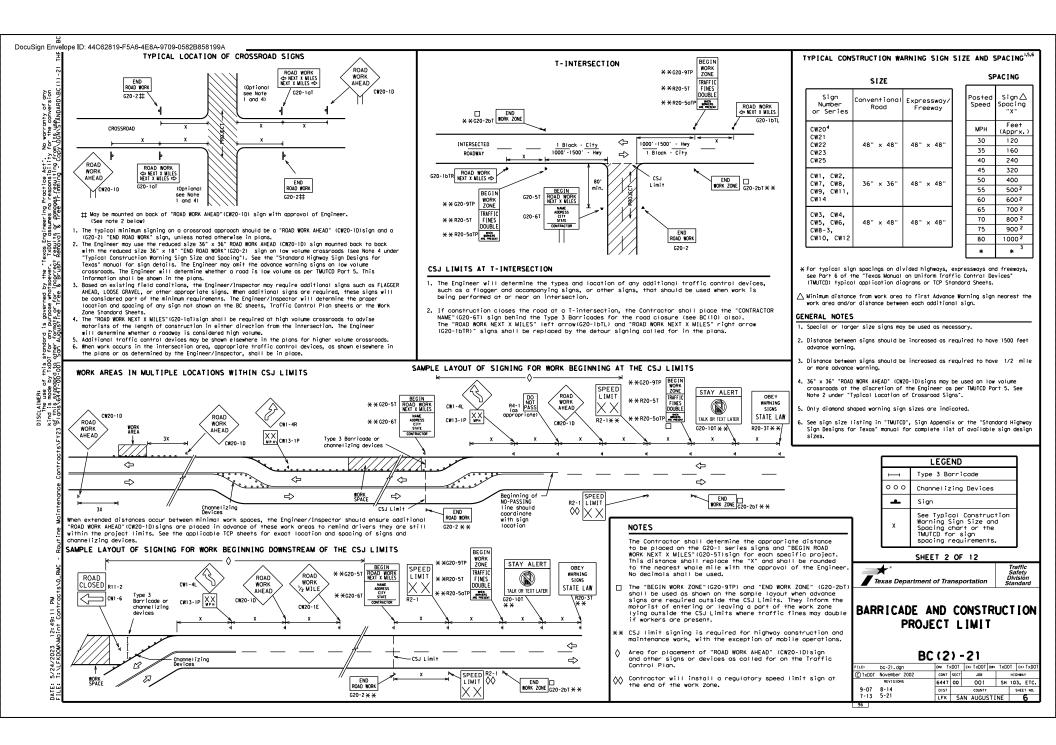
- 1. Workers on foot who are exposed to traffic or to construction equipment within the right-of-way shall wear high-visibility safety apparel meeting the requirements of ISEA "American National Standard for High-Visibility Apparel," or equivalent revisions, and labeled as ANSI 107-2004 standard performance for Class 2 or 3 risk exposure. Class 3 garments should be considered for high traffic volume work areas or night time work.
- Except in emergency situations, flagger stations shall be illuminated when flagging is used at night.

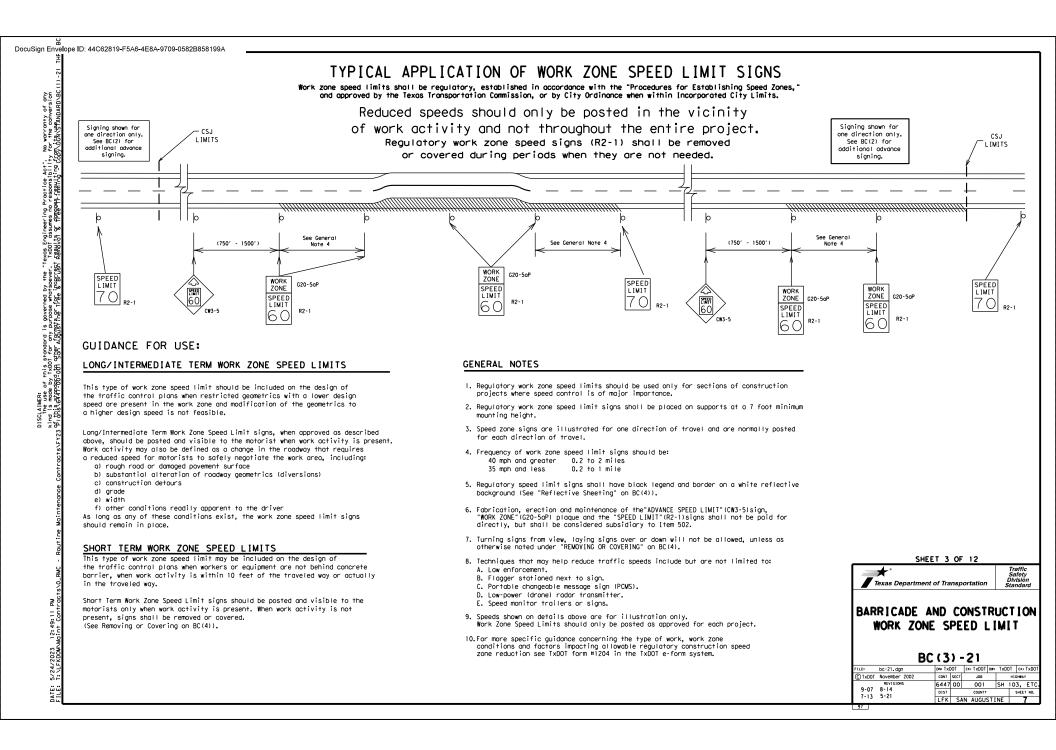
COMPLIANT WORKZONE TRAFFIC CONTROL DEVICES

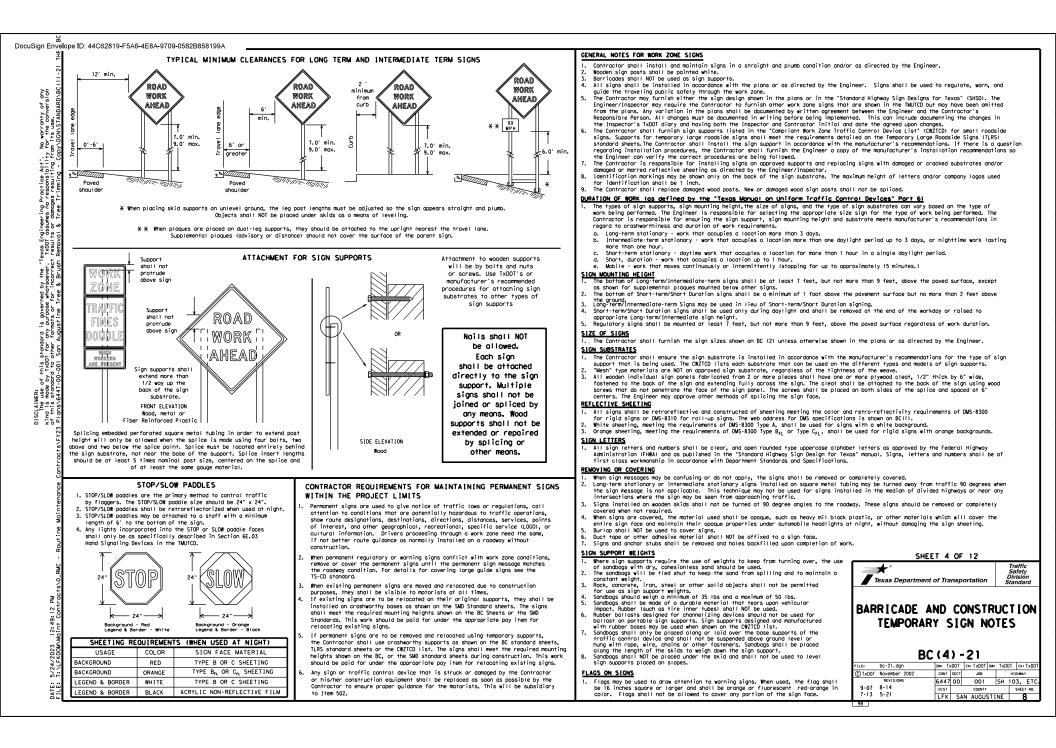
- Only pre-qualified products shall be used. The "Compliant Work Zone Traffic Control Devices List" (CWZTCD) describes pre-qualified products and their sources.
- Work zone traffic control devices shall be compliant with the Manual for Assessing safety Hardware (MASH).

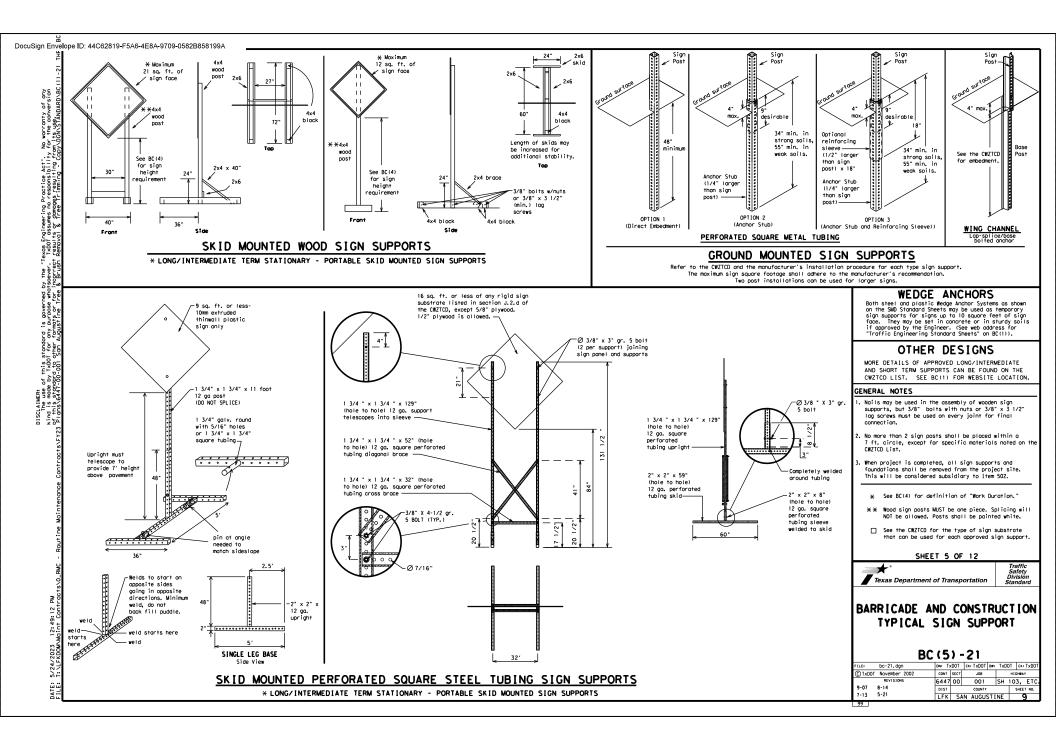
THE DOCUMENTS BELOW CAN BE FOUND ON-LINE AT http://www.txdot.gov
COMPLIANT WORK ZONE TRAFFIC CONTROL DEVICES LIST (CWZTCD)
DEPARTMENTAL MATERIAL SPECIFICATIONS (DMS)
MATERIAL PRODUCER LIST (MPL)
ROADWAY DESIGN MANUAL - SEE "MANUALS (ONLINE MANUALS)"
STANDARD HIGHWAY SIGN DESIGNS FOR TEXAS (SHSD)
TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (TMUTCD)
TRAFFIC ENGINEERING STANDARD SHEETS

SHEET 1 OF 12								
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BARRICADE AND CONSTRUCTION GENERAL NOTES AND REQUIREMENTS								
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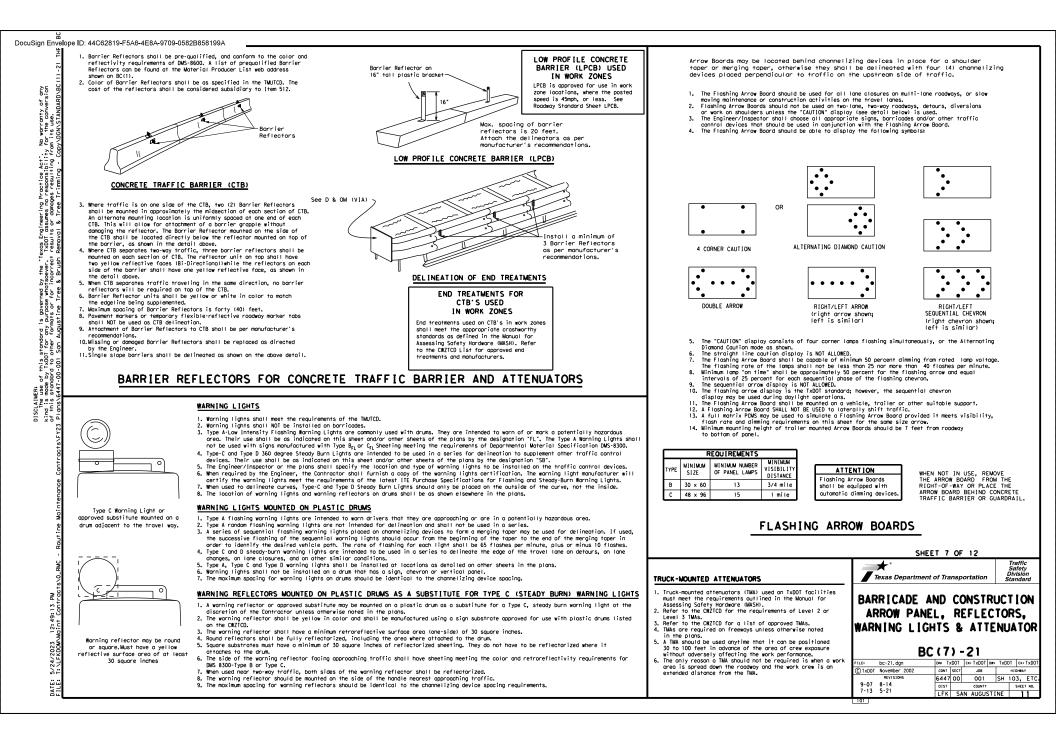






WHEN NOT IN USE, REMOVE THE PCMS FROM THE RIGHT-OF-WAY OR PLACE THE PCMS BEHIND BARRIER OR GUARDRAIL WITH SIGN PANEL TURNED PARALLEL TO TRAFFIC	RECO						SAGES DURIN	IG ROADWOF	RK ACTIVITI	ES
PORTABLE CHANGEABLE MESSAGE SIGNS			···· -··;		1		,			
 The Engineer/Inspector shall approve all messages used on partable changeable message signs (PCMS). 		Phase 1: Cor	ndition List	s			Phase 2: Pos	sible Comp	onent Lists	
 Messages on PCMS should contain no more than 8 words (about four to eight characters per word), not including simple words such as "TO," 		111000 11 001		•		Action to Take/	Effect on Travel	Location	Warnina	* * Advance
"FOR," "AT," etc. 3. Messages should consist of a single phase, or two phases that	Road/Lane/Ram	p Closure List	Other Con	dition List				List	List	Notice Lis
alternate. Three-phase messages are not allowed. Each phase of the message should convey a single thought, and must be understood by	FREEWAY	FRONTAGE	ROADWORK	ROAD		MERGE	FORM	AT	SPEED	TUE-FRI
itself.	CLOSED	ROAD	XXX FT	REPAIRS		RIGHT	X LINES	FM XXXX	LIMIT	XX AM-
 Use the word "EXIT" to refer to an exit ramp on a freeway; i.e., "EXIT CLOSED." Do not use the term "RAMP." 	X MILE	CLOSED		XXXX FT			RIGHT		XX MPH	X PM
 Always use the route or interstate designation (IH, US, SH, FM) along with the number when referring to a roadway. 	ROAD CLOSED	SHOULDER CLOSED	FLAGGER XXXX FT	L ANE NARROWS		DETOUR	USE XXXXX	BEFORE RAILROAD	MAXIMUM SPEED	APR XX-
6. When in use, the bottom of a stationary PCMS message panel should be a minimum 7 feet above the roadway, where possible.	AT SH XXX	XXX FT	XXXX F1	XXXX FT		X EXITS	RDEXIT	CROSSING	XX MPH	X PM-X A
The message term "WEEKEND" should be used only if the work is to	ROAD	RIGHT LN	RIGHT LN	TWO-WAY		USE	USE EXIT	NEXT		BEGINS
start on Saturday morning and end by Sunday evening at midnight. Actual days and hours of work should be displayed on the PCMS if work	CLSD AT	CLOSED	NARROWS	TRAFFIC		EXIT XXX	I-XX	x	SPEED	MONDAY
is to begin on Friday evening and/or continue into Monday morning. 8. The Engineer/Inspector may select one of two options which are avail-	FM XXXX	XXX FT	XXXX FT	XX MILE			NORTH	MILES	XX MPH	
able for displaying a two-phase message on a PCMS. Each phase may be	RIGHT X	RIGHT X	MERGING	CONST		STAY ON	USE	PAST	ADVISORY	BEGINS
displayed for either four seconds each or for three seconds each. 9. Do not "flash" messages or words included in a message. The message	LANES CLOSED	LANES OPEN	TRAFFIC XXXX FT	TRAFFIC XXX FT		US XXX SOUTH	I-XX E TO I-XX N	US XXX EXIT	SPEED XX MPH	MAY XX
should be steady burn or continuous while displayed. 10. Do not present redundant information on a two-phase message; i.e.,										
keeping two lines of the message the same and changing the third line.	CENTER LANE	DAYTIME LANE	LOOSE GRAVEL	UNEVEN LANES		TRUCKS USE	WATCH FOR	XXXXXXX	R I GHT LANE	MAY X-X XX PM -
 Do not use the word "Danger" in message. Do not display the message "LANES SHIFT LEFT" or "LANES SHIFT RIGHT" 	CLOSED	CLOSURES	XXXX FT	XXXX FT		US XXX N	TRUCKS	xxxxxxx	EXIT	XX AM
on a PCMS. Drivers do not understand the message. 13. Do not display messages that scroll horizontally or vertically across	NIGHT	I-XX SOUTH	DETOUR	ROUGH		WATCH	EXPECT	US XXX	USE	NEXT
the face of the sign.	LANE	EXIT	X MILE	ROAD		FOR	DELAYS	TO	CAUTION	FRI-SUN
14. The following table lists abbreviated words and two-word phrases that are acceptable for use on a PCMS. Both words in a phrase must be	CLOSURES	CLOSED		XXXX FT		TRUCKS		FM XXXX		
displayed together. Words or phrases not on this list should not be abbreviated, unless shown in the TMUTCD.	VARIOUS	EXIT XXX	ROADWORK	ROADWORK		EXPECT	PREPARE		DRIVE	XX AM
15. PCMS character height should be at least 18 inches for trailer mounted units. They should be visible from at least 1/2 (.5) mile and the text	LANES CLOSED	CLOSED X MILE	PAST SH XXXX	NEXT FRI-SUN		DELAYS	TO STOP		SAFELY	TO XX PM
should be legible from at least 600 feet at night and 800 feet in daylight. Truck mounted units must have a character height of 10 inches	EXIT	RIGHT LN	BUMP			REDUCE	END		DRIVE	NEXT
and must be legible from at least 400 feet.	CLOSED	TO BE	XXXX FT	EXIT		SPEED	SHOULDER		WITH	TUE
 Each line of text should be centered on the message board rather than left or right justified. 		CLOSED		X MILES		XXX FT	USE		CARE	AUG XX
17. If disabled, the PCMS should default to an illegible display that will not alarm motorists and will only be used to alert workers that the	MALL	X LANES	TRAFFIC	LANES		USE	WATCH			TONIGHT
PCMS has malfunctioned. A pattern such as a series of horizontal solid bars is appropriate.	DRIVEWAY CLOSED	CLOSED TUE - FRI	SIGNAL XXXX FT	SHIFT		OTHER ROUTES	FOR WORKERS			XX PM- XX AM
				· · · · · · · · · · · · · · · · · · ·		STAY				
WORD OR PHRASE ABBREVIATION WORD OR PHRASE ABBREVIATION	BLVD	* LANES SHIFT in Pho	se 1 must be used wit	D STAY IN LANE TO PO	000 2	IN		~ ~ ~	See Application Guidelin	ac Nota 6
	CLOSED	X LANES SHIFT III FIIG		IT STAT IN LANE IT FIL	1036 2.	LANE *		** .		les Note 6.
Access Road ACCS RD Major MAJ Alternate ALT Miles MI										
Avenue AVE Miles Per Hour MPH Best Route BEST RTE Minor MNR		APPLICATION GUIDELI	NES			WORDING ALTER	NATIVES			
Boulevard BLVD Monday MON Bridge BRDG Normal NORM		1. Only 1 or 2 phases are	e to be used on a PCMS.			1. The words RIGH	T, LEFT and ALL can be int	erchanged as appropria	ote.	
Cannot CANT North N Center CTR Northbound (route) N		 The 1st phase (or both "Road/Lane/Ramp Closur 	e List" and the "Other	Condition List".		appropriate.	ations IH, US, SH, FM and	-		
Construction CONST AHD Parking PKING PD		 A 2nd phase can be se on Travel, Location, (lected from the "Action General Warning, or Adva	to Take/Effect nce Notice		 EAST, WEST, NC be interchange 	RTH and SOUTH (or abbrevia d as appropriate.	tions E, W, N and S) o	can	
CROSSING XING Right Lone RT IN	Phase Lists". 4. Highway names and numbers replaced as appropriate. 5. ROAD, HIGHWAY and FREEWAY can be interchanged as needed.									
Detour Route DETOUR RTE Saturday SAT Do Not DONT Service Road SERV RD		is not included in the 5. If two PCMS are used	e first phose selected.			AHEAD may be u	sed instead of distances i E and MILES interchanged a	f necessary.		
East E Shoulder SHLDR Eastbound (route) E Slippery SLIP		a minimum of 1000 ft. and should be understa	Eoch PCMS shall be limi	ted to two phoses,		 AT, BEFORE and 	PAST interchanged as need	ed.		
Emergency EMER South S		6. For advance notice, wh	nen the current date is			location phase	HEAD can be eliminated fro	n the message it a		
Entrance, Enter ENT Speed SPD		of the actual work da days of the week. Adv	te, calendar days should ance notification should	be replaced with typically be for						
Expressway EXPWY Sunday SUN		no more than one week	prior to the work.						SHEET	6 OF 12
XXXX Feet XXXX FI Telephone PHONE Fog Ahead FOG AHD Temporary TEMP		DOL					20	—— г	*	
Freeway FRWY, FWY Freeway Blocked FWY BLKD To Downtown TO DWNTN			S SIGNS WITHIN TH CONCRETE BARRIER				UK		Texas Department of	Transportation
Friday FRI Troffic TRAF			LASTIC DRUMS PLA					F		
Hazardous Material HAZMAT Tuesday TUES		UPS	STREAM SIDE OF TH	E PCMS, WHEN EXP	POSED	TO ONE DIRECTIO				
			AFFIC. WHEN EXP						BARRICADE AN	
Highwoy Hour(s) HR, HRS Wencies (s) VEH, VEHS		SHOULD BE	PLACED WITH ONE I	JRUM AT EACH OF	THE FO	OUR CORNERS OF	IHE UNII.		PORTABLE	
It In ITC Weakedday NED	FULL MATRIX POMS S								MESSAGE S	SIGN (PCM
West W	1. When Full Matrix PCM CHANGEABLE MESSAGE S	S signs are used, the cho	practer height and legib	ility/visibility require	ements s	shall be maintained as	s listed in Note 15 under "	PORTABLE		
Left Lone LFT LN Wet Povement WET PVMT	2. When symbol signs, s	uch as the "Flagger Symb	ol"(CW20-7) ore represe	nted graphically on the	e Full Mo	atrix PCMS sign and, w	ith the approval of the Er			6)-21
Lower Level LWR LEVEL	shall maintain the li 3. When symbol signs are	egibility/visibility réqu e represented graphically	irement listed above. on the Full Matrix PCM	5. they shall only supp	lement t	the use of the static	sign represented, and shal			INT SECT JOB
Maintenance MAINT Roadway	for, or replace that	sign.					ing requirements on BC(7),	È	REVISIONS 6	447 00 001 5
		ur uzeu io simuiute d	Truating uniow board pre	JVIGED IN MEETS THE VIS		, iiusii iule ana alimmi	ing requirements on bull,	IN THE	9-07 8-14	UST COUNTY

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- For long term stationary work zones on freeways, drums shall be used as the primary channelizing device.
- The primary commentant primary work zones on freeways, drums should be used as the primary channelizing device but may be replaced in tangent sections by vertical panels, or 42° two-piece cones. In tangent sections, one-piece cones may be used with the approval of the Engineer but only
- if personnel are present on the project at all times to maintain the cones in proper position and location. 3. For short term stationary work zones on freeways, drums are the preferred
- channelizing device but may be replaced in tapers, transitions and tangent sections by vertical panels, two-piece comes or one-piece comes as approved by the Engineer.
- 4. Drums and all related items shall comply with the requirements of the current version of the "Texas Manual on Uniform Traffic Control Devices" (IMUTCD) and the "Compliant Work Zone Traffic Control Devices List" (CWZTCD).
- Drums, bases, and related materials shall exhibit good workmanship and shall be free from objectionable marks or defects that would adversely affect their appearance or serviceability.
- The Contractor shall have a maximum of 24 hours to replace any plastic drums identified for replacement by the Engineer/Inspector. The replacement device must be an approved device.

GENERAL DESIGN REQUIREMENTS

- Pre-auglified plastic drums shall meet the following requirements:
- Plastic drums shall be a two-piece design; the "body" of the drum shall be the top portion and the "base" shall be the bottom.
- The body and base shall lock together in such a manner that the body separates from the base when impacted by a vehicle traveling at a speed of 20 MPH or greater but prevents accidental separation due to normal handling and/or air turbulence created by passing vehicles.
- Plasting during shall be constructed of lightweight flexible, and deformable materials. The Contractor shall NOT use metal drums or
- single piece plastic drums as channelization devices or sign supports. 4. Drums shall present a profile that is a minimum of 18 inches in width at the 36 inch height when viewed from any direction. The height of drum unit tbody installed on base) shall be a minimum of 36 inches and a maximum of 42 inches.
- o maximum of version shift have a built-in handle for easy pickup and shall be designed to drain water and not collect debris. The handle shall have a minimum of two widely spaced 9/16 inch diameter hales to allow attachment of a warning light, warning reflector unit or approved compliant sign.
- 6. The exterior of the drum body shall have a minimum of four alternating orange and white retroreflective circumferential stripes not less than 4 inches nor greater than 8 inches in width. Any non-reflectorized space between any two adjacent stripes shall not exceed 2 inches in width.
- widin.
 7. Bases shall have a maximum width of 36 inches, a maximum height of 4 inches, and a minimum of two footholds of sufficient size to allow base to be held down while secaration the drum body from the base.
- Plastic drums shall be constructed of ultra-violet stabilized, orange, high-density polyethylene (HDPE) or other approved material.
- Drum body shall have a maximum unballasted weight of 11 lbs.
 Drum and base shall be marked with manufacturer's name and model number.

RETROREFLECTIVE SHEETING

- The stripes used on drums shall be constructed of sheeting meeting the color and retroreflectivity requirements of Deportmental Waterials Specification DMS-8300, "Sign Face Materials." Type A or Type B reflective sheeting shall be supplied unless otherwise specified in the plans.
- 2. The sheeting shall be suitable for use on and shall adhere to the drum surface such that, upon vehicular impact, the sheeting shall remain adhered in-place and exhibit no delaminating, cracking, or loss of retroreflectivity other than that loss due to abrasion of the sheeting surface.

BALLAST

- I. Unballasted bases shall be large enough to hold up to 50 lbs. of sond. This base, when filled with the bollast material, should weigh between 35 lbs (minimum) and 50 lbs (maximum). The bollast may be sond in one to three sondbags separate from the base, sand in a sand-filled plastic base, or other ballasting devices as approved by the Engineer. Stacking of sandbags will be allowed, however height of sandbags doube pavement surface may not exceed 12 inches. 2. Bases with built+ in bullast shollast sholl weigh between 40 lbs, and 50 lbs.
- Bases with built-in ballast shall weigh between 40 lbs, and 50 lbs, Built-in ballast can be constructed of an integral crumb rubber base or a solid rubber base.
- 3. Recycled truck the sidewalls may be used for ballast on drums approved for this type of ballast on the CWZTCD list.
 4. The ballast shall not be heavy objects, water, or any material that
- would become hazardous to motorists, pedestrians, or workers when the drum is struck by a vehicle.
- When used in regions susceptible to freezing, drums shall have drainage holes in the bottoms so that water will not collect and freeze becoming a hazard when struck by a vehicle.
- 6. Ballast shall not be placed on top of drums.
- 7. Adhesives may be used to secure base of drums to pavement.

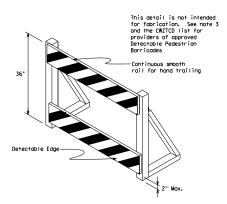
4" mox 4" min 8" mox Each drum shall have 1 (†yp)a minimum of 2 orange and 2 white stripes using Type A or Type B retroreflective 2" max sheeting with the top stripe being (typ.) orange. Toper to allow for stacking a See Ballast minimum of 5 drums Note 3

9/16" dia. (typ)

for mounting

worning Lights

signs and



DETECTABLE PEDESTRIAN BARRICADES

18" min

Handle -

Top should not

of water or

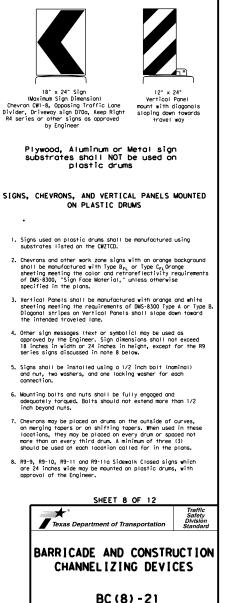
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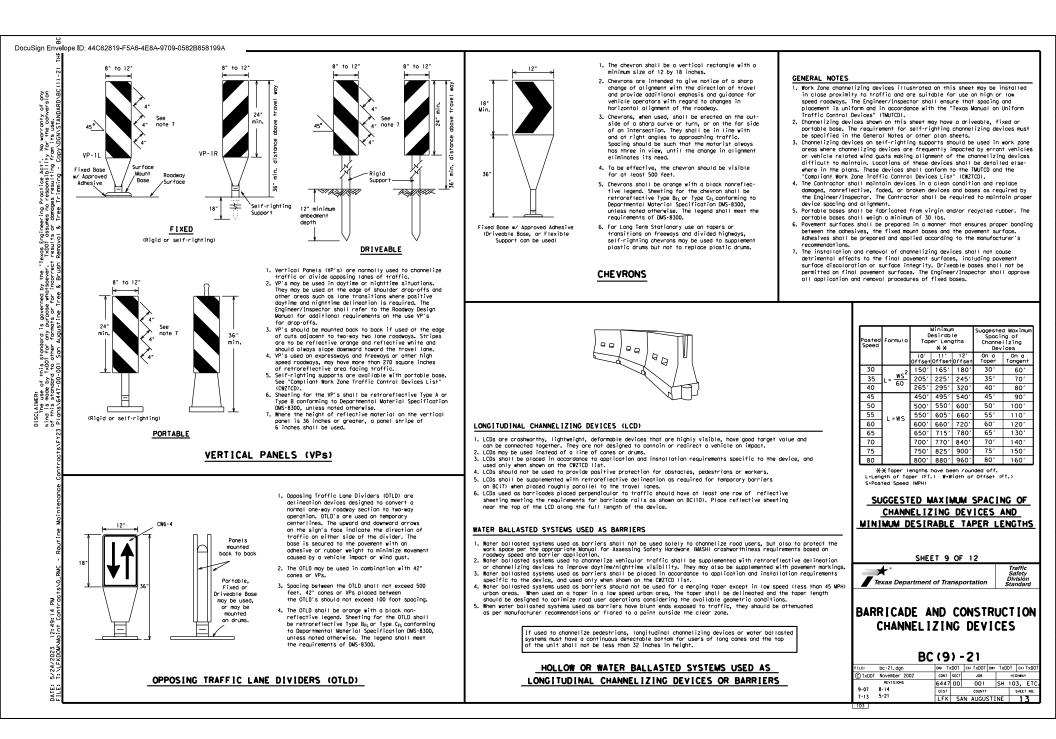
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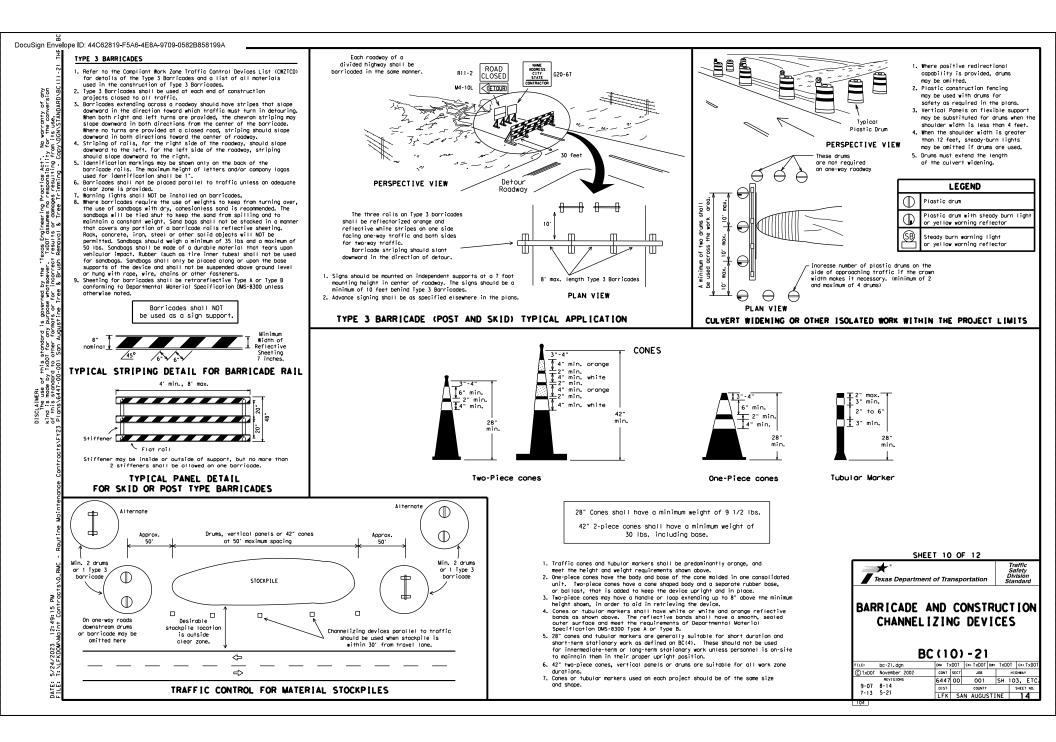
allow collection

- When existing pedestrian facilities are disrupted, closed, or relocated in a ITC zone, the temporary facilities shall be detectable and include accessibility features consistent with the features present in the existing pedestrian facility. Refer to WCBIS-21 for Pedestrian Control requirements for Sidewik Diversions, Sidewalk Detours and Crosswolk Closures.
 Where pedestrian soft hvisual disabilities normally use the
- Where pedestrians with visual disabilities normally use the closed sidewalk, a Detectable Pedestrian Barricade shall be placed across the full width of the closed sidewalk instead of a Type 3 Barricade.
 Detectable pedestrian barricades similar to the one pictured
- Detectable pedestrian barricades similar to the one pictured above, longitudinal channelizing devices, some concrete barriers, and wood or chain link fencing with a continuous detectable edging can satisfactorily delineate a pedestrian path.
- puint. 1 Tape, rope, or plastic chain strung between devices are not detectable, do not comply with the design standards in the "Americans with Disabilities Act Accessibility Guidelines (ADAAG)" and should not be used as a control for pedestrian movements.
- 5. Warning lights shall not be attached to detectable pedestrian barricades.
- c. Detectoble pedestrian barricades should use 8" nominal barricade rails as shown on BC(10) provided that the top rail provides a smooth continuous rail suitable for hand trailing with no splinters, burrs, or sharp edges.



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WORK ZONE PAVEMENT MARKINGS

- GENERAL 1. The Contractor shall be responsible for maintaining work zone and existing pavement markings, in accordance with the standard specifications and special provisions, on all roadways open to traffic within the CSJ limits unless otherwise stated in the plans.
- 2. Color, patterns and dimensions shall be in conformance with the "Texas Manual on Uniform Traffic Control Devices" (IMUICD).
- 3. Additional supplemental pavement marking details may be found in the plans or specifications.
- 4. Povement markings shall be installed in accordance with the TMUTCD and as shown on the plans.
- 5. When short term markings are required on the plans, short term markings shall conform with the TMUTCD, the plans and details as shown on the Standard Plan Sheet WZ (STPM).
- 6. When standard payement markings are not in place and the roadway is opened to traffic, DO NOT PASS signs shall be erected to mark the beginning of the sections where passing is prohibited and PASS WITH CARE signs at the beginning of sections where passing is permitted.
- All work zone pavement markings shall be installed in accordance with Item 662, "Work Zone Povement Markings."

RAISED PAVEMENT MARKERS

- 1. Raised pavement markers are to be placed according to the patterns on BC(12).
- 2. All raised pavement markers used for work zone markings shall meet the requirements of Item 672, "RAISED PAVEMENT MARKERS" and Departmental Material Specification DMS-4200 or DMS-4300.

PREFABRICATED PAVEMENT MARKINGS

- 1. Removable prefabricated povement markings shall meet the requirements of DMS-8241.
- 2. Non-removable prefabricated pavement markings (foil back) shall meet the requirements of DMS-8240.

MAINTAINING WORK ZONE PAVEMENT MARKINGS

- 1. The Contractor will be responsible for maintaining work zone pavement markings within the work limits.
- 2. Work zone pavement markings shall be inspected in accordance with the frequency and reporting requirements of work zone traffic control device inspections as required by Form 599.
- 3. The markings should provide a visible reference for a minimum distance of 300 feet during normal daylight hours and 160 feet when illuminated by automobile low-beam headlights at night, unless sight distance is restricted by roadway geometrics.
- 4 Markings failing to meet this criteria within the first 30 days after placement shall be replaced at the expense of the Contractor as per Specification Item 662.

direct a motorist toward or into the closed portion of the roadway shall be removed or obliterated before the roadway is opened to traffic. 2. The above shall not apply to detours in place for less than three days, where flaggers and/or sufficient channelizing devices are used in lieu of markings to outline the detour route. 3. Pavement markings shall be removed to the fullest extent possible. so as not to leave a discernable marking. This shall be by any method approved by TxDOT Specification Item 677 for "Eliminating Existing Povement Markings and Markers". 4. The removal of pavement markings may require resurfacing or seal coating portions of the roadway as described in Item 677. 5. Subject to the approval of the Engineer, any method that proves to be successful on a particular type pavement may be used. 6. Blast cleaning may be used but will not be required unless specifically shown in the plans. 7. Over-painting of the markings SHALL NOT BE permitted. 8. Removal of raised pavement markers shall be as directed by the 9. Removal of existing pavement markings and markers will be paid for directly in accordance with Item 677, "ELIMINATING EXISTING PAVEMENT MARKINGS AND MARKERS, " unless otherwise stated in the plans. 10.Black-out marking tape may be used to cover conflicting existing markings for periods less than two weeks when approved by the Engineer. roadway

REMOVAL OF PAVEMENT MARKINGS

PAVEMENT MARKERS (REFLECTORIZED) TRAFFIC BUTTONS EPOXY AND ADHESIVES 1. Pavement markings that are no longer applicable, could create confusion TOP VIEW FRONT VIEW SIDE VIEW BITUMINOUS ADHESIVE FOR PAVEMENT MARKERS PERMANENT PREFABRICATED PAVEMENT MARKINGS TEMPORARY REMOVABLE, PREFABRICATED PAVEMENT MARKINGS TEMPORARY FLEXIBLE, REFLECTIVE - 4" • 1/4" ---ROADWAY MARKER TABS Adhesive pad Height of sheeting A list of prequalified reflective raised pavement markers, a risi of preductified reflective rotated polyement munkers, non-reflective troffic buttons, roadway marker tabs and other pavement markings can be found at the Material Producer List web address shown on BC(1). is usually more than 1/4" and less than 1". STAPLES OR NAILS SHALL NOT BE USED TO SECURE TEMPORARY FLEXIBLE-REFLECTIVE ROADWAY MARKER TABS TO THE PAVEMENT SURFACE 1. Temporary flexible-reflective roadway marker tabs used as guidemarks shall meet the requirements of DMS-8242. 2. Tabs detailed on this sheet are to be inspected and accepted by the Engineer or designated representative. Sampling and testing is not or "B" below may be imposed to assure quality before placement on the A, Select five (5) or more tabs at random from each lot or shipment and submit to the Construction Division, Materials and Pavement Section to determine specification compliance. B. Select five (5) tabs and perform the following test. Affix five (5) tabs at 24 inch intervals on an asphaltic pavement in a straight line. Using a medium size passenger vehicle or pickup, run over the markers with the front and rear tires at a speed of 35 to 40 miles per hour, four (4) times in each direction. No more than one (1) out of the five (5) reflective surfaces shall be lost or displaced as a result of this test. 3. Small design variances may be noted between tab manufacturers. See Standard Sheet WZ(STPM) for tab placement on new pavements. See Standard Sheet TCP(7-1) for tab placement on seal coat work. RAISED PAVEMENT MARKERS USED AS GUIDEMARKS Raised pavement markers used as guidemarks shall be from the approved product list, and meet the requirements of DMS-4200. 2. All temporary construction raised pavement markers provided on a project shall be of the same manufacturer. 3. Adhesive for guidemarks shall be bituminous material hot applied or butyl rubber pad for all surfaces, or thermoplastic for concrete surfaces. Guidemarks shall be designated as: YELLOW - (two amber reflective surfaces with yellow body). WHITE - (one silver reflective surface with white body). B

Temporary Flexible-Reflective

Roadway Marker Tabs

SHEET 11 OF 12	
Texas Department of Transportation	Traffic Safety Division Standard
ARRICADE AND CONSTR	
PAVEMENT MARKING	

DEPARTMENTAL MATERIAL SPECIFICATIONS

DMS-4200

DMS-430

DMS-6100

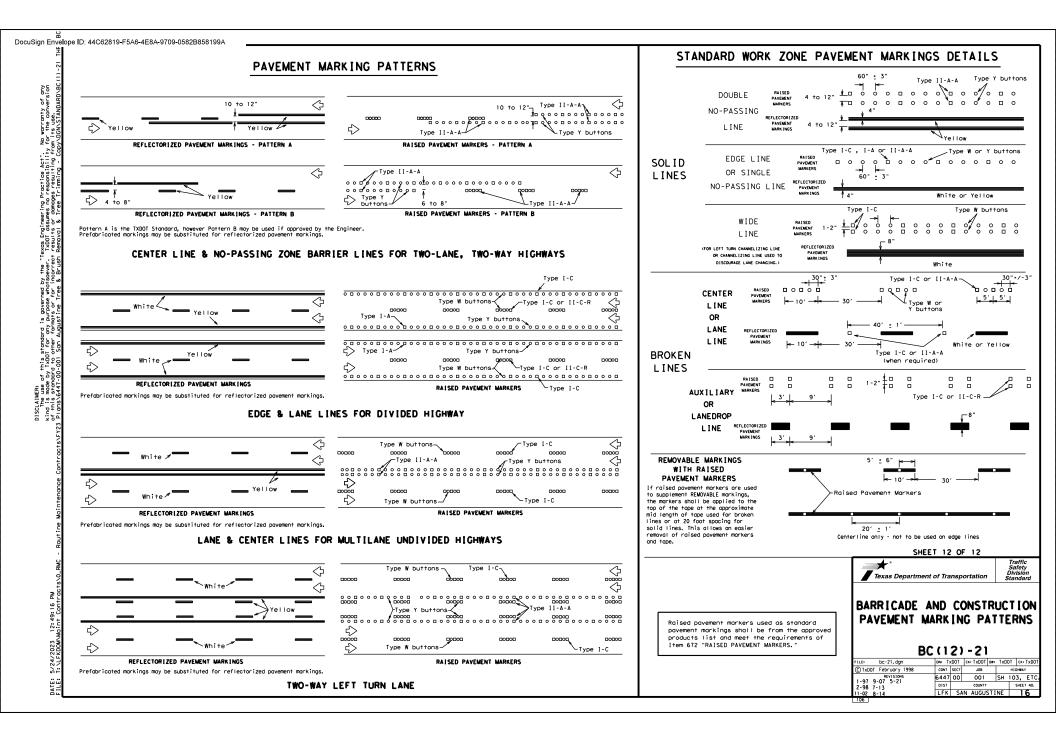
DMS-6130

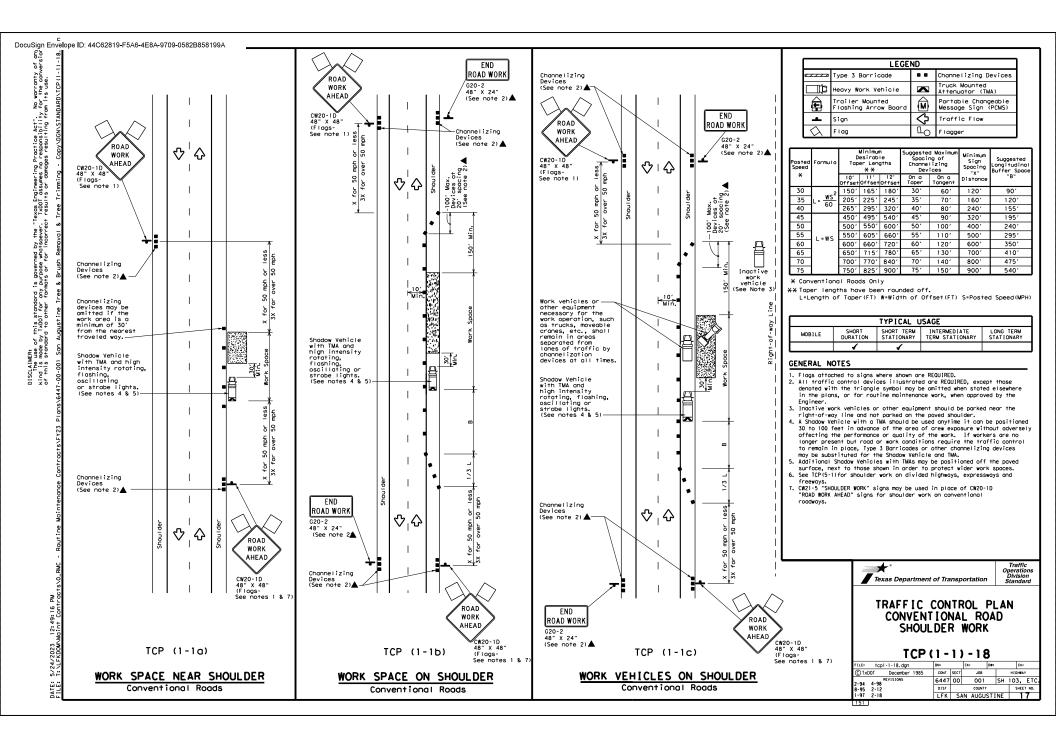
DMS-8240

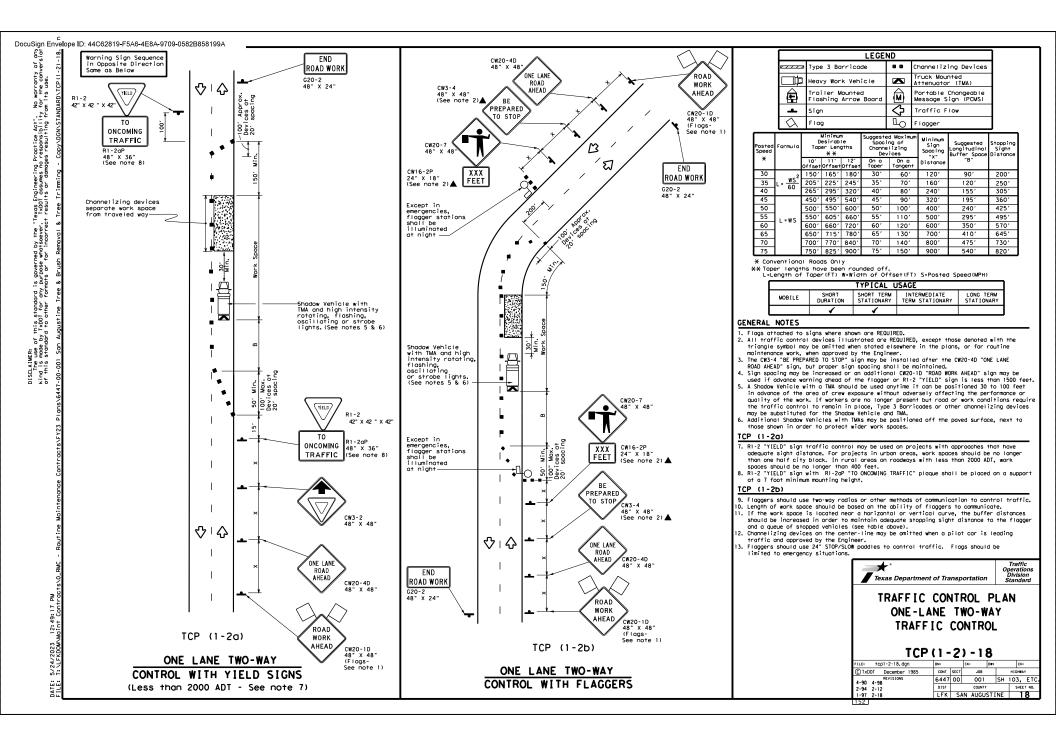
DMS-824

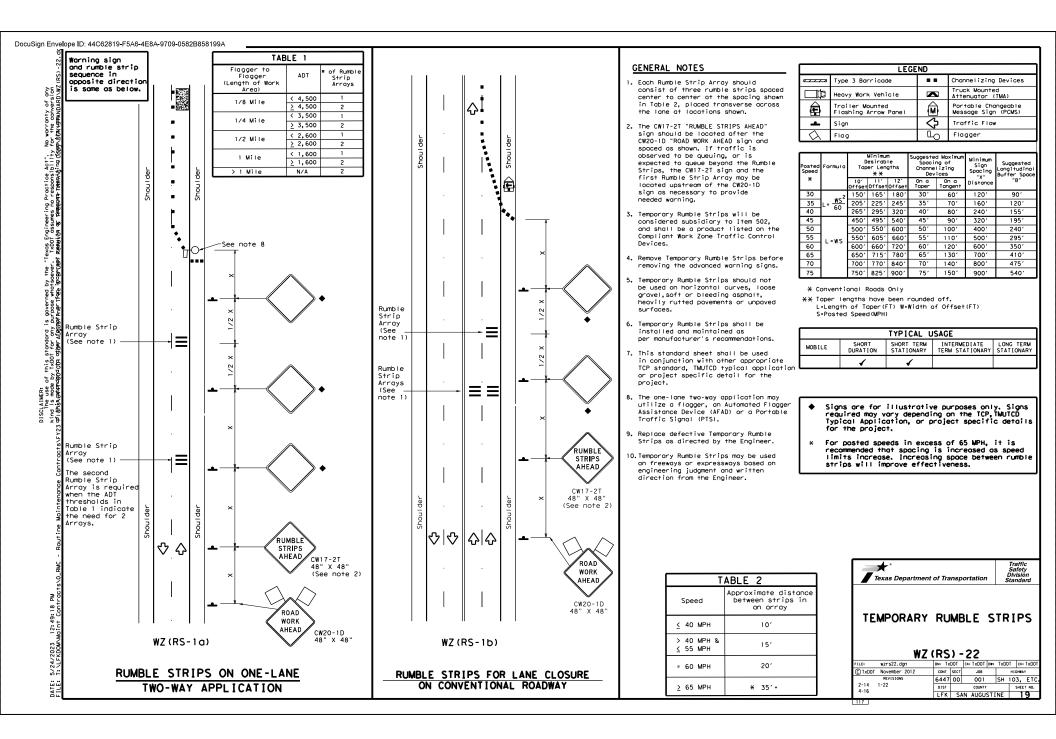
DMS-8242

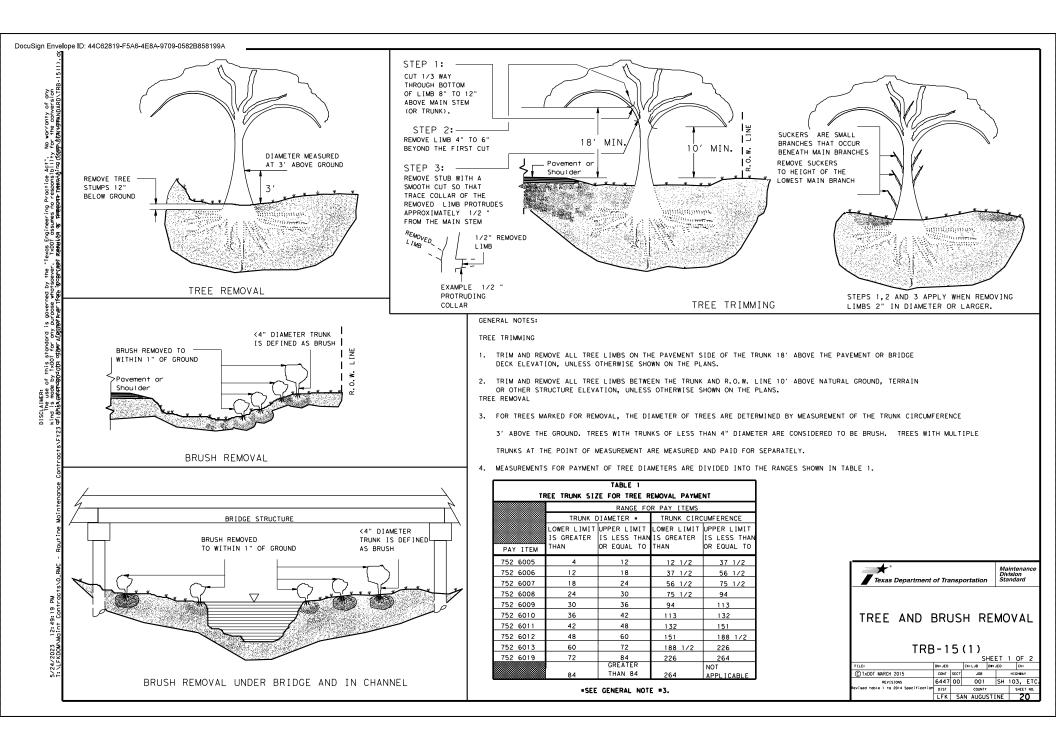
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C TxDOT February 1998	CONT	SECT	JOB			HIGH	AY
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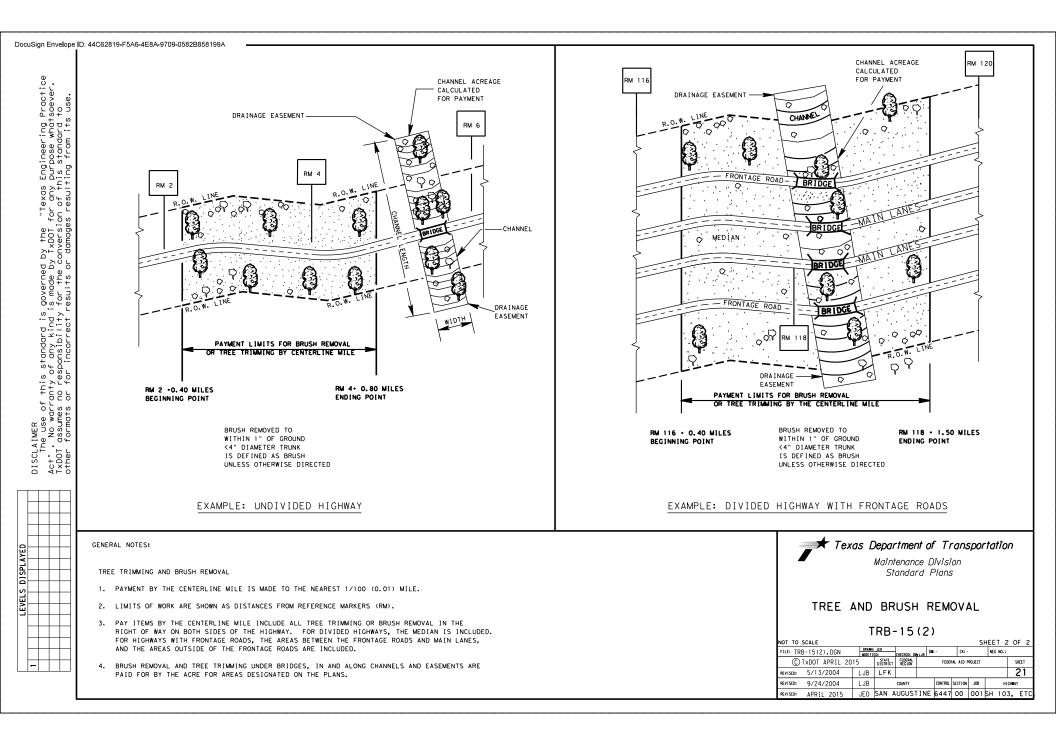












1.	STORMWATER POLLUTION P	REVENTION-CLEAN WATER	ACT SECTION 402	<u>μ</u> ι.	CULTURAL RESOURCES	
	required for projects with 1 disturbed soil must protect ltem 506. List MS4 Operator(s) that m	 Discharge Permit or Constr l or more acres disturbed sa for erosion and sedimentati ay receive discharges from t d prior to construction acti 	il. Projects with any on in accordance with this project.		Refer to TxDOT Standard Specifications in the event historical issues or orcheological artifacts are found during construction. Upon discovery of archeological artifacts (bones, burnt rock, flint, pottery, etc.) cease work in the immediate area and contact the Engineer immediately.	
	1. N/A					
	X No Action Required Action No. 1.The proposed work of t	Required Action his project is the removal of	and trimming of trees		1. Contractor to repair or replace in kind, at their own expense, any historic materials damaged (buildings, historical markers, etc.) in the caurse of executing the work. Contractor is responsible for locating replacement source for historic materials damaged in the caurse of the work. TxDD-Environmental Affairs Division is to be informed of proposed repairs to facilitate consultation with Texas Historical Commission prior to execution of repairs.	-
	into State right-of-way.	dways that are hazardous, dy This activity maintains th	ne original line and grade,	11.	VEGETATION RESOURCES	
	meets the definition of	riginal purpose of the site. a routine maintenance activi 0000 issued March 5, 2023 ar	ity as defined in the TPDES		Preserve native vegetation to the extent practical. Contractor must adhere to Construction Specification Requirements Specs 16 164, 192, 193, 506, 730, 751, 752 in order to comply with requirements for invasive species, beneficial landscaping, and tree/brush removal commitmen	
					No Action Required 🕅 Required Action	
ι.	ACT SECTIONS 401 AND USACE Permit required for water bodies, rivers, cree	MS, WATERBODIES AND WE 404 filling, dredging, excavati ks, streams, wetlands or we to all of the terms and co	ng or other work in any t areas.		Action No. 1. Portions of State Highway (SH) 103, SH 147, Farm-to-Market (FM) 1279 FM 353, FM 1992, FM 1277, FM 2923, FM 3185, FM 2851, FM 2558, FM 2390, FM 2189, FM 705, FM 83, FM 3173, and FM 3127 in San Augustine County pas through compartments of the Sabine and Angelina National Forests. No tre along these roadways are to be cut or otherwise damaged without prior approval from United States Forest Service (USFS) and Area Engineer.	5
	X No Permit Required	PCN not Required (less than	1/10th acre waters or	`	V. FEDERAL LISTED, PROPOSED THREATENED, ENDANGERED SPECIES, CRITICAL HABITAT, STATE LISTED SPECIES, CANDIDATE SPECIES AND MIGRATORY BIRDS.	
	wetlands affected)				If any of the listed species are observed, cease work in the immediate area, do not disturb species or habitat and contact the Engineer immediately.	
	Individual 404 Permit Required Actions: List wate		to, location in project		In order to maintain compliance with Chapter 64 of the Texas Parks and Wildlife Code and Migratory Bird Treaty Act (MBTA), construction activities that may affect nests (i.e. tree removal, tree limbing, bridg work) shall be conducted outside of the nesting season (March 15 to September 15). In the event birds or active nests (eggs and/or nest)ing present) are encountered, contact the engineer prior to conducting work.	
	and post-project TSS.		·		No Action Required 🛛 🕅 Required Action	
	1. N/A				Action No.	
					 Red-cockaded woodpecker (federally listed endangered species) habitat is present adjacent to the ROW along SH 103, SH 147, and FM 1992. No trees along these highways are to be cut or otherwise damaged without prior approval from Lufkin District ENV and Area Engineer. 	
		ry high water marks of any rs of the US requiring the Bridge Layouts.			2. Texas golden gladecress (federally-listed endangered species) Critical Hobitat is present within the ROW along SH 21 from 0.5 mi East of LP 547 to 1.2 mi East of LP 547 along FW 353 from 0.8 mi East of SH 147 to 1.02 mi East of SH 147 along FW 3483 from 0.16 mi South of SH 21 to 0.63 mi South of SH 21 and from 0.82 mi South of SH 21 to 0.93 mi South of SH 21. Tree and brush removal or trimming activities in these areas shall be conducted when plants are dom from September 15 to 3 anoury 1.	ian
	Best Management Practic	es:				P
	Erosion	Sedimentation	Post-Construction TSS		 White bladderpod (federally-listed endangered species) is present within the along SH 21 from 1.20 mi. West of FM 354 to 1.14 mi. West of FM 354 and along FM 3403 from 0.92 mi. South of SH 21 to 0.00 mi. South of SW 21. The port brucks 	
	Temporary Vegetation	Silt Fence	Vegetative Filter Strips		FM 3483 from 0.82 mi. South of SH 21 to 0.90 mi. South of SH 21. Tree and brush removal or trimming activities in these areas shall be conducted when plants are	
	Blankets/Matting	Rock Berm	Retention/Irrigation Systems	1	dormant from September 15 to January 1.	
	Mulch Sodding	☐ Triangular Filter Dike ☐ Sand Bag Berm	Extended Detention Basin Constructed Wetlands	—		_
	Interceptor Swale	Straw Bale Dike	Wet Basin		LIST OF ABBREVIATIONS	
	Diversion Dike	Brush Berms	Erosion Control Compost	BMP: CGP:	Best Management Practice SPCC: Spill Prevention Control and Countermeas Construction General Permit SWP3: Storm Water Pollution Prevention Plan	re
	Erosion Control Compost	Erosion Control Compost	Mulch Filter Berm and Socks	DSHS: FHWA:	: Texas Department of State Health Services PCN: Pre-Construction Notification : Federal Highway Administration PSL: Project Specific Location	
		Mulch Filter Berm and Socks		MOA: MOU:	Memorandum of Agreement TCEQ: Texas Commission on Environmental Qualit Memorandum of Understanding TPDES: Texas Pollutant Discharge Elimination Sy	y ste
	Compost Filter Berm and Socks	Compost Filter Berm and Socks	Wegetation Lined Ditches	hes MS4: Municipal Separate Stormwater Sever System TPND: Texos Parks and Wildl MBTA: Migratory Bird Treaty Act Tx001: Texos Department of T ND1: Notice of Termination TBE: Threatened and Endang		
		Stone Outlet Sediment Traps	Sand Filter Systems	NOT:	Notice of Terminotion TBE: Threatened and Endangered Species Notionwide Permit USACE: U.S. Army Carps of Engineers	

VI. HAZARDOUS MATERIALS OR CONTAMINATION ISSUES

General (applies to all projects):

Comply with the Hazard Communication Act (the Act) for personnel who will be working with hazardous materials by conducting safety meetings prior to beginning construction and making workers aware of potential hazards in the workplace. Ensure that all workers are provided with personal protective equipment appropriate for any hazardous materials used.

Obtain and keep on-site Material Safety Data Sheets (MSDS) for all hazardous products used on the project, which may include, but are not limited to the following categories: Paints, acids, solvents, asphalt products, chemical additives, fuels and concrete curing compounds or additives. Provide protected storage, off bare ground and covered, for products which may be hazardous. Maintain product labelling as required by the Act.

Maintain an adequate supply of on-site spill response materials, as indicated in the MSDS. In the event of a spill, take actions to mitigate the spill as indicated in the MSDS, in accordance with safe work practices, and contact the District Spill Coordinator immediately. The Contractor shall be responsible for the proper containment and cleanup of all product spills.

Contact the Engineer if any of the following are detected:

- * Dead or distressed vegetation (not identified as normal)
- Trash piles, drums, canister, barrels, etc. Undesirable smells or odors
- * Evidence of leaching or seepage of substances

Does the project involve any bridge class structure rehabilitation or

replacements (bridge class structures not including box culverts)?

Yes X No

If "No", then no further action is required.

If "Yes", then TxDOT is responsible for completing asbestos assessment/inspection.

Are the results of the asbestos inspection positive (is asbestos present)?

Yes No No

If "Yes", then TxDOT must retain a DSHS licensed asbestos consultant to assist with the notification, develop abatement/mitigation procedures, and perform management activities as necessary. The notification form to DSHS must be postmarked at least 15 working days prior to scheduled demolition.

If "No", then TxDOT is still required to notify DSHS 15 working days prior to any scheduled demolition.

In either case, the Contractor is responsible for providing the date(s) for abatement activities and/or demolition with careful coordination between the Engineer and asbestos consultant in order to minimize construction delays and subsequent claims.

Any other evidence indicating possible hazardous materials or contamination discovered on site. Hazardous Materials or Contamination Issues Specific to this Project:

X No Action Required Required Action

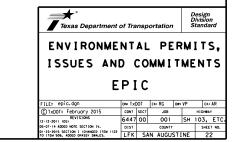
1. N/A

VII. OTHER ENVIRONMENTAL ISSUES

lortions_of State Highway (SH) 103, SH 147, Form-to-Market (FM) 1279, M 353, FM 1992, FM 1277, FM 3283, FM 3183, FM 2851, FM 2556, FM 2390, M 2189, FM 705, FM 83, FM 3173, and FM 3127 in San Augustine County pass mrough compariments of the Sobine and Angelina National Forests

No Action Required

2. Do not fell trees within US Forest Service boundary without prior approval. Timber cut within US Forest Service boundary remains the property of the US Forest Service and may require messured lengths to be cut or for trees to be felled entirely anto US Forest Service land.



Best Management Practic	es:	
Erosion	Sedimentation	Post-Construction TSS
Temporary Vegetation	Silt Fence	Vegetative Filter Strips
Blankets/Matting	Rock Berm	Retention/Irrigation Systems
Mulch	🗌 Triangular Filter Dike	Extended Detention Bosin
Sodding	Sand Bag Berm	Constructed Wetlands
Interceptor Swale	Straw Bale Dike	🗌 Wet Basin
Diversion Dike	Brush Berms	Erosion Control Compost
Erosion Control Compost	Erosion Control Compost	Mulch Filter Berm and Socks
Mulch Filter Berm and Socks	Mulch Filter Berm and Socks	Compost Filter Berm and Socks
Compost Filter Berm and Socks	Compost Filter Berm and Socks	Vegetation Lined Ditches
	Stone Outlet Sediment Traps	Sand Filter Systems
	Sediment Basins	🗌 Grassy Swales

- within the ROW
- 1. Area Engineer shall notify U.S Forest Service prior to commencing work at the above roadway locations.
- Required Action

DocuSign

Certificate Of Completion

Envelope Id: 44C62819F5A64E8A97090582B858199A Status: Completed Subject: Complete with DocuSign: RMC 6447-00-001 SAN AUGUSTINE TREE TRIMMING AND BRUSH REMOVAL PLANS.pdf Source Envelope: Document Pages: 25 Envelope Originator: Signatures: 3 Certificate Pages: 5 Initials: 0 Spencer Branske AutoNav: Enabled 125 E. 11th Street Austin, TX 78701 Envelopeld Stamping: Enabled Time Zone: (UTC-06:00) Central Time (US & Canada) Spencer.Branske@txdot.gov

Holder: Spencer Branske

eremy King, P.E.

Using IP Address: 204.64.21.246

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Pool: StateLocal

Signature

Spencer.Branske@txdot.gov

Signature Adoption: Uploaded Signature Image

Pool: Texas Department of Transportation

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Signer Events

Jeremy King Jeremy.King@txdot.gov Lufkin District Maintenance Engineer Texas Department of Transportation Security Level: Email, Account Authentication (Optional)

Electronic Record and Signature Disclosure:

Not Offered via DocuSign

(Optional)

Kevin Buranakitipinyo, Dir of Construction Kevin.Buranakitipinyo@txdot.gov Director of Operations TxDOT - Lufkin Security Level: Email, Account Authentication

(Optional)

Electronic Record and Signature Disclosure:

Electronic Record and Signature Disclosure:

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Accepted: 7/25/2016 9:02:34 AM ID: 1b3075d3-b3ec-4024-b93e-27b9431cb5e3 AGECD29BC5C492

Signed using mobile

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Location: DocuSign

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Sent: 8/22/2023 11:15:09 AM

Timestamp

In Person Signer Events	Signature	Timestamp
Editor Delivery Events	Status	Timestamp
Agent Delivery Events	Status	Timestamp
Intermediary Delivery Events	Status	Timestamp
Certified Delivery Events	Status	Timestamp
Carbon Copy Events	Status	Timestamp
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Tamara.Gibson@txdot.gov	COPIED	Viewed: 8/29/2023 9:13:29 AM
Texas Department of Transportation		
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Witness Events	Signature	Timestamp		
Notary Events	Signature	Timestamp		
Envelope Summary Events	Status	Timestamps		
Envelope Sent	Hashed/Encrypted	8/22/2023 9:13:33 AM		
Certified Delivered	Security Checked	8/22/2023 12:28:22 PM		
Signing Complete	Security Checked	8/22/2023 12:28:30 PM		
Completed	Security Checked	8/22/2023 12:28:39 PM		
Payment Events	Status	Timestamps		
Electronic Record and Signature Disclosure				

Electronic Record and Signature Disclosure created on: 1/9/2015 7:21:34 AM Parties agreed to: Kevin Buranakitipinyo, Dir of Construction

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You may contact us to let us know of your changes as to how we may contact you electronically, to request paper copies of certain information from us, and to withdraw your prior consent to receive notices and disclosures electronically as follows: To contact us by email send messages to: kevin.setoda@txdot.gov

To advise Texas Department of Transportation of your new e-mail address

To let us know of a change in your e-mail address where we should send notices and disclosures electronically to you, you must send an email message to us at kevin.setoda@txdot.gov and in the body of such request you must state: your previous e-mail address, your new e-mail address. We do not require any other information from you to change your email address.

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ii. send us an e-mail to kevin.setoda@txdot.gov and in the body of such request you must state your e-mail, full name, IS Postal Address, telephone number, and account number. We do not need any other information from you to withdraw consent. The consequences of your withdrawing consent for online documents will be that transactions may take a longer time to process.

A	
Operating Systems:	Windows2000? or WindowsXP?
Browsers (for SENDERS):	Internet Explorer 6.0? or above
Browsers (for SIGNERS):	Internet Explorer 6.0?, Mozilla FireFox 1.0, NetScape 7.2 (or above)
Email:	Access to a valid email account
Screen Resolution:	800 x 600 minimum
Enabled Security Settings:	Allow per session cookies

Required hardware and software

• Users accessing the internet behind a Proxy Server must enable HTTP
1.1 settings via proxy connection

** These minimum requirements are subject to change. If these requirements change, we will provide you with an email message at the email address we have on file for you at that time providing you with the revised hardware and software requirements, at which time you will have the right to withdraw your consent.

Acknowledging your access and consent to receive materials electronically

To confirm to us that you can access this information electronically, which will be similar to other electronic notices and disclosures that we will provide to you, please verify that you were able to read this electronic disclosure and that you also were able to print on paper or electronically save this page for your future reference and access or that you were able to e-mail this disclosure and consent to an address where you will be able to print on paper or save it for your future reference and access. Further, if you consent to receiving notices and disclosures exclusively in electronic format on the terms and conditions described above, please let us know by clicking the 'I agree' button below.

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