

Project Number: RMC 646889001	Sheet 2	Project Number: RMC 646889001	Sheet 2
County: LAMB	<b>Control:</b> 6468-89-001	County: LAMB	Control: 6468-89-001
Highway: VARIOUS		Highway: VARIOUS	
GENERAL NOTES:		Lamb County Maintenance Supervisor	

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

Michael P. Stroope, P.E. - mike.stroope@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: <u>https://tableau.txdot.gov/views/ProjectInformationDashboard/NoticetoContractors</u>

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

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

# General Requirements and Covenants - Items 1 thru 9

**Project Description** – This project shall consist of crack seal of various roadways in the Littlefield Area consisting of Parmer, Bailey, Lamb, Cochran and Hockley County Maintenance Sections.

Littlefield Area Engineer

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

# Parmer County Maintenance Supervisor

Paul Gonzalez 1101 SH 86 West Bovina, TX 79316 PH (806) 238-1216

Bailey County Maintenance Supervisor David Caudill 2401 W American Blvd Muleshoe, TX 79347 PH (806) 272-4230 Curt Masters 1600 W Delano Ave Littlefield, TX 79339 PH (806) 385-3361

# **Cochran County Maintenance Supervisor**

Raymond Martinez 680 N SH 214 Morton, TX 79346 PH (806) 266-8686

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

Designate in writing the "On the Job Superintendent" authorized to act on behalf of the Contractor. Perform contract work only when the "On the Job Superintendent" is on the job site.

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

# Item 2 – Instructions to Bidders

View the plans on-line or download from the web at: http://www.dot.state.tx.us/business/plansonline/agreement.htm Class 21 Aprox 24 Aprox

Choose "I Agree" then, "Click here", then "State-Let-Construction", pick the letting month, then "Plans" and then choose the plans set.

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.h
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By signing this proposal, a bidder acknowledges that he/she has a copy of the "Standard Specifications for Construction and Maintenance of Highways, Streets and Bridges", adopted by the Texas Department of Transportation, November 1, 2014. This specification book may be purchased from the Department or downloaded at: http://www.txdot.gov/business/resources/txdot-specifications.html

General Notes

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Highway: VARIOUS		Highway: VARIOUS	

## Item 3 – Award and Execution of Contract

This contract shall commence upon issuance of a work order and shall continue for a period of 61 working days. Time charges shall begin no later than January 6, 2025 (61 working days plus 5 weather days). This contract will end on or before April 7, 2025. No further work will be performed after this date, unless mutually agreed between the Contractor and the department.

The time allowed for the work order is based on a production rate of 20 lane miles per day.

### Item 6 - Control of Materials

Use materials from pre-qualified producers. A list of material producers pre-qualified by the Construction Division (CST) of the Texas Department of Transportation (TxDOT) can be found at the following website:

http://www.txdot.gov/business/contractors\_consultants/producer\_list.htm

# Article 6.6

Store material off TxDOT property or Right of Way unless approved by the project supervisor.

Article 6.11

Repair damage to the Right of Way to the satisfaction of the project supervisor.

# Item 7 - Legal Relations and Responsibilities

Coordinate street closures with the local fire, police, and other emergency personnel.

Maintain access to adjacent property at all times.

Dispose of all waste materials in compliance with local, state, and federal regulations. Submit a list of all approved waste sites to the Engineer for review.

## Item 8 – Prosecution and Progress

Monthly schedule updates are a very important aspect of managing the progress of this project. The Engineer may withhold the monthly estimate if the schedule update has not been received.

Do not begin work before sunrise or end work after sunset unless authorized by the Engineer, and remove all equipment from the roadway before sundown.

# Item 9 - Measurement and Payment

Sheet C

Submit material-on-hand payment requests at least three working days prior to the end of the month for payment on that month's estimate.

# Item 502 - Barricades, Signs And Traffic Handling

Prior to beginning construction, the Engineer shall approve the routing of traffic and sequence of work.

Additional signs and barricades as directed by the Engineer shall be considered subsidiary to Item 502.

Provide flashing portable arrow panels for all lane closures.

Wash the channelizing devices and barricades following each rainfall or snowfall event and at times deemed necessary by the Engineer.

To ensure the safety and convenience of traffic, flaggers may be required when construction machinery is being operated along, across, or adjacent to lanes carrying traffic. If considered necessary by the Engineer, supplemental signs and barricades may be required.

Fill any holes left by barricade or sign supports and restore the area to its original condition.

Barricades, Signs and Traffic Handling is a plan quantity item. If time is suspended, no additional compensation will be made.

Cones or chevrons may be used in lieu of vertical panels at the discretion of the Engineer. Cones cannot be used to separate opposing traffic.

The Contractor shall bid the traffic control plan shown in the plans. Any proposed alterations to the TCP (combining work areas / phasing / etc.) shall be submitted to the Engineer at least 10 days prior to anticipated changes. Mobile operations shall not be permitted.

Square tubing sign supports may be used for temporary construction signs. Aluminum and wood signs may be mounted if the vertical supports are embedded into the ground. Square tubing supports on skids which are typically held in place with sand bags can only support signs made of light weight fluted plastic.

During time suspension, all signs and barricades shall be removed and TxDOT forces will maintain the roadway. When work resumes, the Contractor shall erect signs and barricades and begin maintenance of the roadway.

Correct all noted deficiencies within 7 calendar days, otherwise, cease all operations until the noted deficiencies are corrected.

General Notes

Sheet D

Project Number: RMC 646889001	Sheet 2
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Highway: VARIOUS	

# Item 505 - Truck Mounted Attenuator and Trailer Attenuator

Provide shadow vehicles equipped with Truck Mounted Attenuators (TMA) as shown on Traffic Control Plan (TCP) standards. Estimate based on two (2) attenuators.

TMAs used for this project shall comply with requirements found in the Complaint Work Zone Traffic Control Devices list, which can be found at the following website. <u>http://www.txdot.gov/business/resources/materials/producer-list.html</u>

# Item 712 - Cleaning and Sealing Joints and Cracks

Class B Rubber-Asphalt Crack Sealer shall be used on this contract.

Alligator cracks will not be sealed. Alligator cracking is defined as interconnecting cracks which form small, irregular shapes that resemble patterns on an alligator's skin. The shapes are usually less than 1 foot and are usually in a wheel path.

Cracks on regular intervals resembling small blocks will be sealed regardless of the dimension.

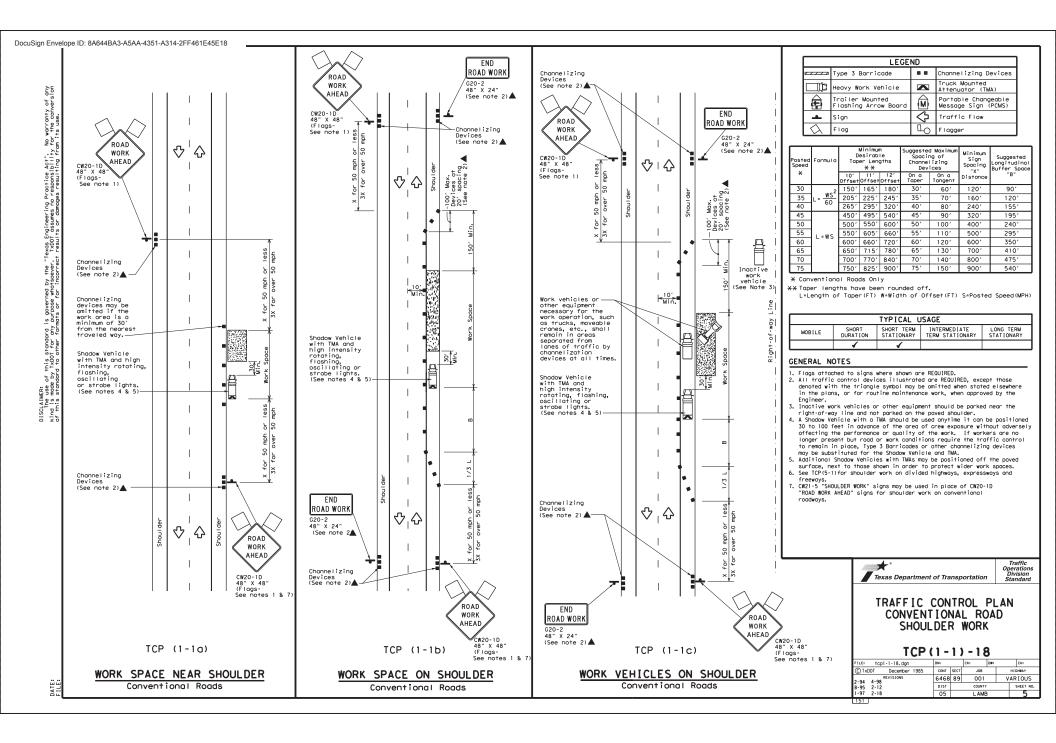
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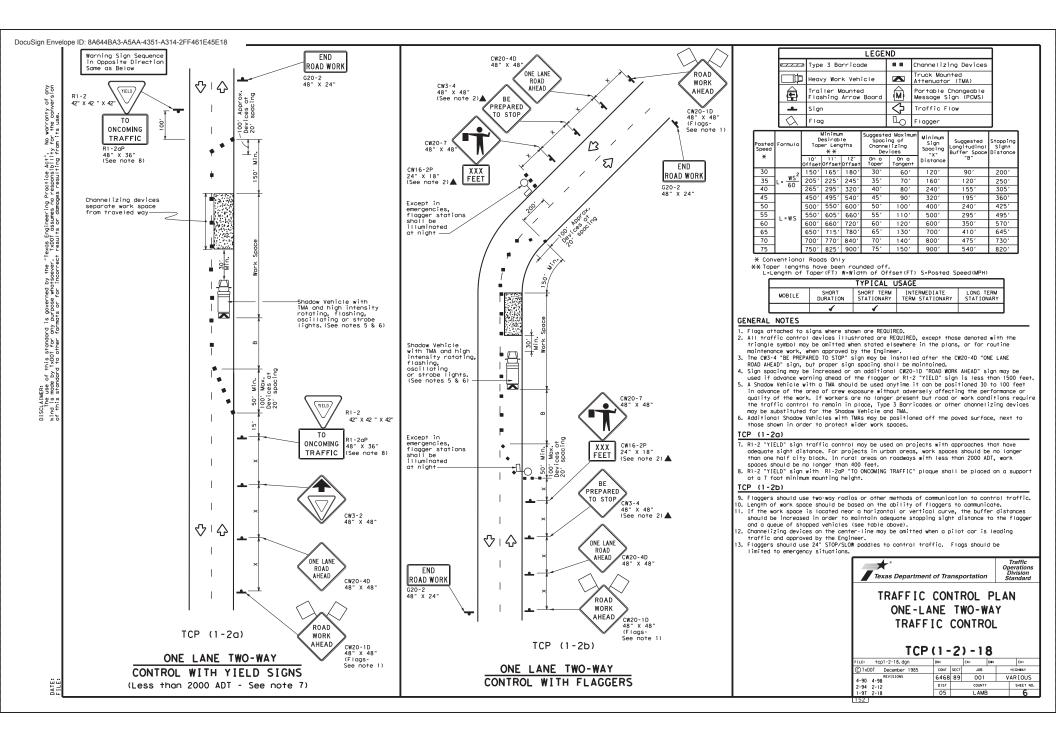
									Overall Sealed Roadway Width (total width of	Main	Lane	Shoulders 6 ft or	Width (6 ft or	Shoulders less than	Width (less than	0712-7001 JT/CRCK SEAL
Ref				Limits	Ref	. Mrk	Roadway	Divided	both sides	Lanes	Width	wider	wider)	6 ft	6 ft)	(RUBBER-ASPHALT)
#	Roadway	County	From	То	From	То	Length (mi)	Highway (Yes/No)	if divided) (ft)	(Pay) #	(Pay) (ft)	(Pay) #	(Pay) (ft)	#	(Subsidiary) (ft)	LMI
1	FM 1072	Lamb	US 70	FM 37	170-0.031	180+0.270	10.200	No	24	2	10	0	0	2	2	20.40
2	FM 1072	Lamb	FM 37	FM 54	180+0.270	188+0.440	8.300	No	28	2	12	0	0	2	2	16.60
	FM 1072	Lamb	FM 54	US 84	188+0.440	192+1.527	4.900	No No	24	2	10 10	0	0	2	2	9.80 5.60
	FM 2901 FM 2901	Lamb Lamb	FM 1055 Earth	Earth FM 302	262-0.034 264+0.720	264+0.720 264+0.920	0.200	No	64	4	10	2	0	2	0	1.20
	FM 2901	Lamb	FM 302	US 385	264+0.920	268+0.41	2.900	No	28	2	12	0	0	2	2	5.80
	FM 302	Lamb	CR 30	US 70	162-0.015	166+0.962	5.010	No	24	2	10	0	0	2	2	10.02
8	FM 1055	Lamb	Castro CL	US 70	160+0.022	164+1.520	5.500	No	24	2	10	0	0	2	2	11.00
9	FM 1055	Lamb	US 70	FM 1843	164+1.520	176+0.850	11.200	No	28	2	12	0	0	2	2	22.40
	FM 1055	Lamb	FM 1843	FM 37	176+0.850	180+1.382	4.600	No	28	2	12	0	0	2	2	9.20
	US 385	Lamb	US 70	LP 430	170+1.610	190+2.980	22.960	No	40	2	12	2	8	0	0	91.84
	FM 37	Lamb	FM 303	US 385	258+1.710	272+1.20	13.520	No	28	2	12	0	0	2	2	27.04
	FM 2479	Lamb	CR 172	FM 37	176+0.000	182+0.269	6.360 17.780	No	22 76	2	11 12	0	0	0	0	12.72 106.68
	US 84 FM 1843	Lamb Lamb	Sudan E CL US 84	Littlefield E CL FM 1055	264+1.952 256-0.035	284.0.010 260+1.698	5.790	Yes No	24	4	12	0	0	2	4	106.68
	SH 114	Hockley	Cochran County Line	FM 303 S	254+0.000	258+1.877	5.890	No	40	2	11	2	8	0	0	23.56
	US 385	Hockley	FM 597 W	County Road Brazil	202+0.667	212+1.72	11.130	No	48	3	12	1	8	1	4	44.52
	FM 301	Hockley	Cochran County Line	FM 303	250+0.007	256+0.223	6.260	No	36	2	12	2	6	0	0	25.04
	FM 597	Hockley	Cochran County Line	FM 303	252+0.000	254+1.090	3.090	No	28	2	12	0	0	2	2	6.18
	FM 168	Hockley	Lamb County Line	US 84	202+0.000	204+0.066	1.720	No	28	2	12	0	0	2	2	3.44
	FM 168	Hockley	FM 597	SH 114	204+1.1345	220+0.76	14.550	No	28	2	12	0	0	2	2	29.10
	FM 1490	Hockley	Lamb County Line	SH 114	194+0.447	212+0.048	15.840	No	20	2	10	0	0	0	0	31.68
	FM 303	Hockley	FM 300	CR Tumbleweed	220+1.792	300+0.400	8.860	No	32 28	2	12 12	0	0	2	4	17.72 4.88
	FM 303	Hockley	SH 114	FM 300	216+2.190	220+0.633	5.020	No No	28	2	12	0	0	2	2	4.88
	FM 41 FM 1585	Hockley Hockley	US 62/385 FM 303	Lubbock CL US 385	270+1.400 258+1.088	278+0.047 264+1.533	6.530	No	28	2	12	0	0	2	2	13.06
	FM 301	Hockley	FM 303	US 385	256+0.250	262+0.724	6.530	No	26	2	12	0	0	2	1	13.06
	FM 597	Hockley	US 84	Lubbock CL	280+0.210	284+0.790	5.690	No	28	2	12	0	0	2	2	11.38
	FM1169	Cochran	SH 125	SH 214	232-0.033	244+1.280	13.270	No	28	2	12	0	0	2	2	26.54
	FM 597	Cochran	SH 214	Hockley County Line	242-0.033	250+1.755	9.770	No	28	2	12	0	0	2	2	19.54
	SH 214	Cochran	Bailey County Line	SH 114	212+0.000	218+0.940	2.680	No	44	2	12	2	10	0	0	10.72
	SH 125	Cochran	NM State Line	FM 1780	224-0.045	250+1.829	27.750	No	28	2	12	0	0	2	2	55.50
	FM 1585	Cochran	FM 769	FM 1780	224-0.028	250+0.398	26.240	No	28	2	12	0	0	2	2	52.48
	FM 1780	Cochran	SH 214	Yoakum County Line	200-0.027	230+1.761	31.420 5.520	No No	28 20	2	12 10	0	0	2	2	62.84 11.04
	FM 2195 FM 595	Cochran Cochran	SH 114 CR 402	SH 125 CR 507	202-0.030 196-0.049	206+1.547 208+0.359	12.350	No	20	2	10	0	0	2	2	24.70
	SH 114	Cochran	NM State Line	SH 214	224-0.010	240+1.040	17.010	No	44	2	12	2	10	0	0	68.04
	SH 214	Bailey	FM 54	Cochran County Line	206+0.801	210+0.173	3.350	No	44	2	12	2	10	0	0	13.40
39	FM 1760	Bailey	FM 1731	US 70	232+1.381	242+0.308	8.930	No	28	2	12	0	0	2	2	17.86
	US 70	Bailey	US 84	E Fir Ave	250-0.850	250-0.420	0.430	No	60	5	12	0	0	0	0	2.15
	US 70	Bailey	E Fir Ave	Lamb County Line	250-0.420	256+0.000	6.050	No	40	2	12	2	8	0	0	24.20
	FM 2079	Bailey	Parmer County Line	US 70	160+0.000	162+1.709	3.720	No	26	2	12	0	0	2	1	7.44
	FM 746	Bailey	NM State Line	FM 1731	226-0.003	234+0.810	8.920 11.600	No No	20 40	2	10 12	0	0	0	0	17.84 46.40
	SH 86 FM 2396	Parmer Parmer	SH 214 US 60	Castro County Line FM 2290	244+0.295 146-0.040	256+0.021 152+0.787	6.780	NO	22	2	12	0	0	0	0	13.56
	SH 214	Parmer	Deaf Smith County Line		140+0.000	152+0.179	12.220	No	22	2	12	0	0	2	2	24.44
	SH 214	Parmer	BS 214 Friona	SH 86	152+1.153	160+0.980	7.560	No	44	2	12	2	10	0	0	30.24
	FM 1731	Parmer	US 60	SH 86	152+2.382	155+0.036	0.690	No	28	2	12	0	0	2	2	1.38
49	FM 1731	Parmer	SH 86	Baily Co. line	155+0.256	170+0.193	14.900	No	60	4	15	0	0	0	0	59.60
	FM 1172	Parmer	US 60	FM 2397	136-0.083	140+1.070	5.150	No	24	2	12	0	0	0	0	10.30
51	FM 3333	Parmer	US 60	CR 13	230-0.057	239+0.020	9.270	No	28	2	12	0	0	2	2	18.54
52	BS 214	Parmer	US 60	FM 2397	244-0.016	245+0.018	0.940	No	22	2	11	0	0	0	0 TOTAL	1.88 1216.17

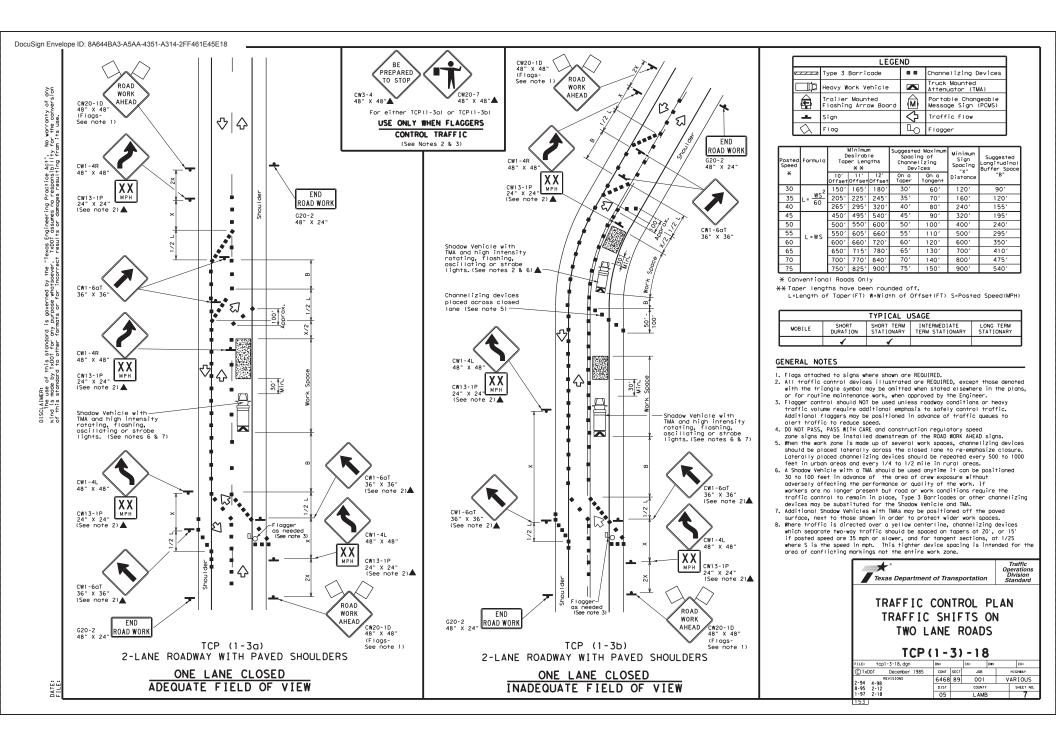


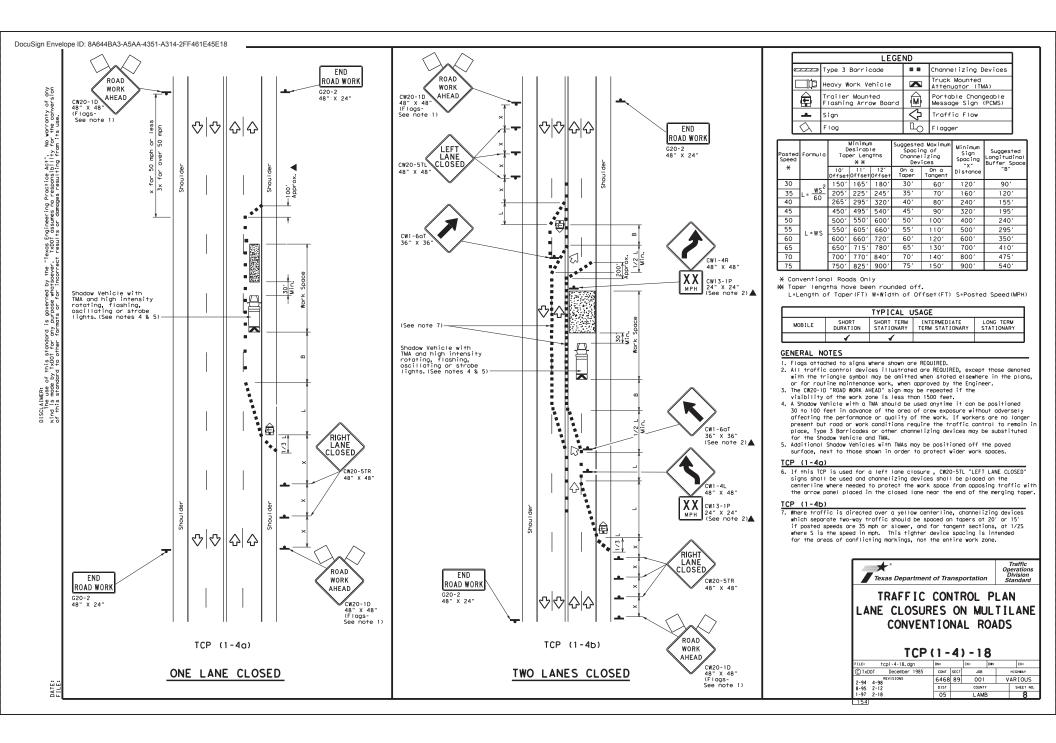
ROADWAY SUMMARY Texas Department of Transportation © 2024

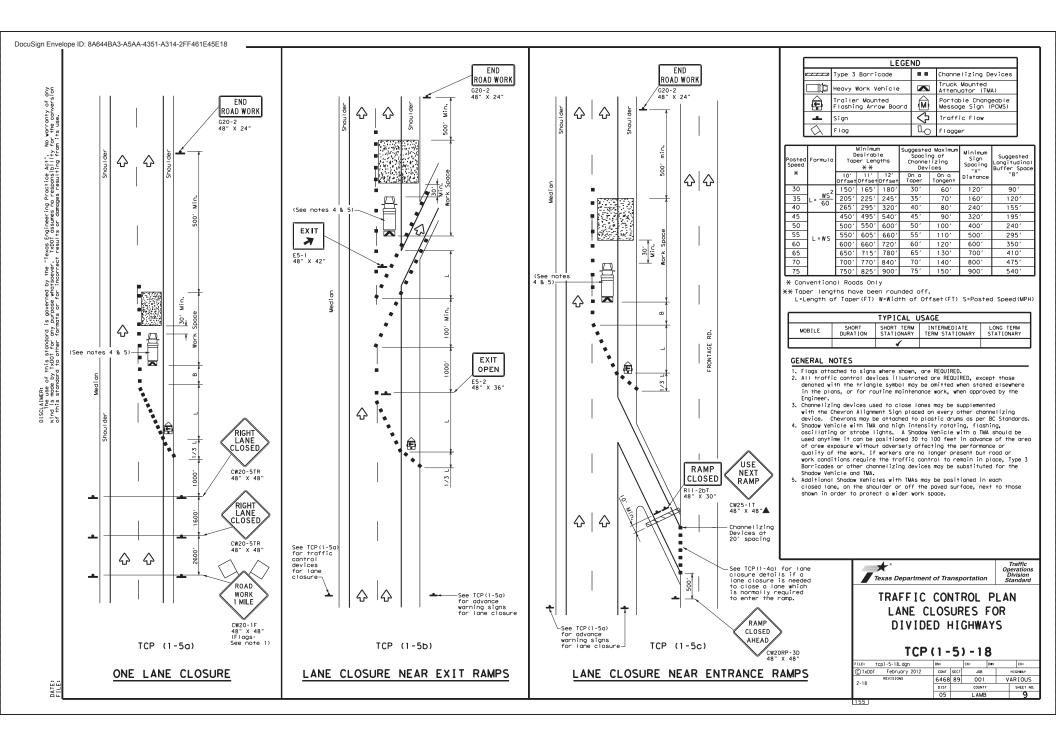
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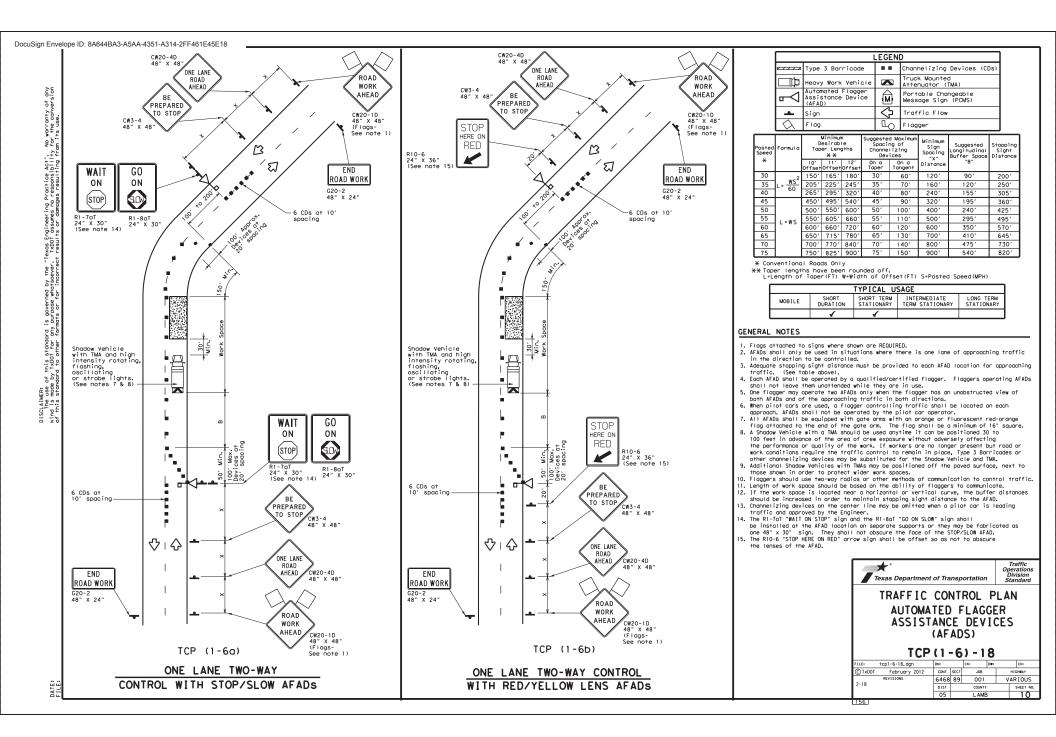


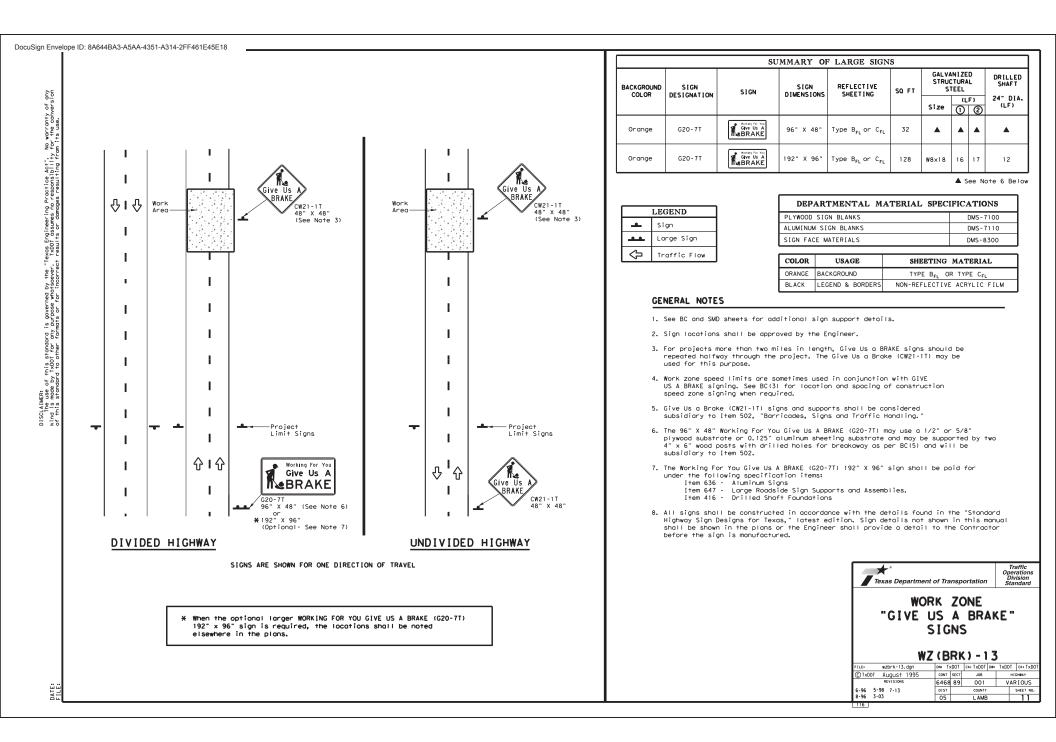


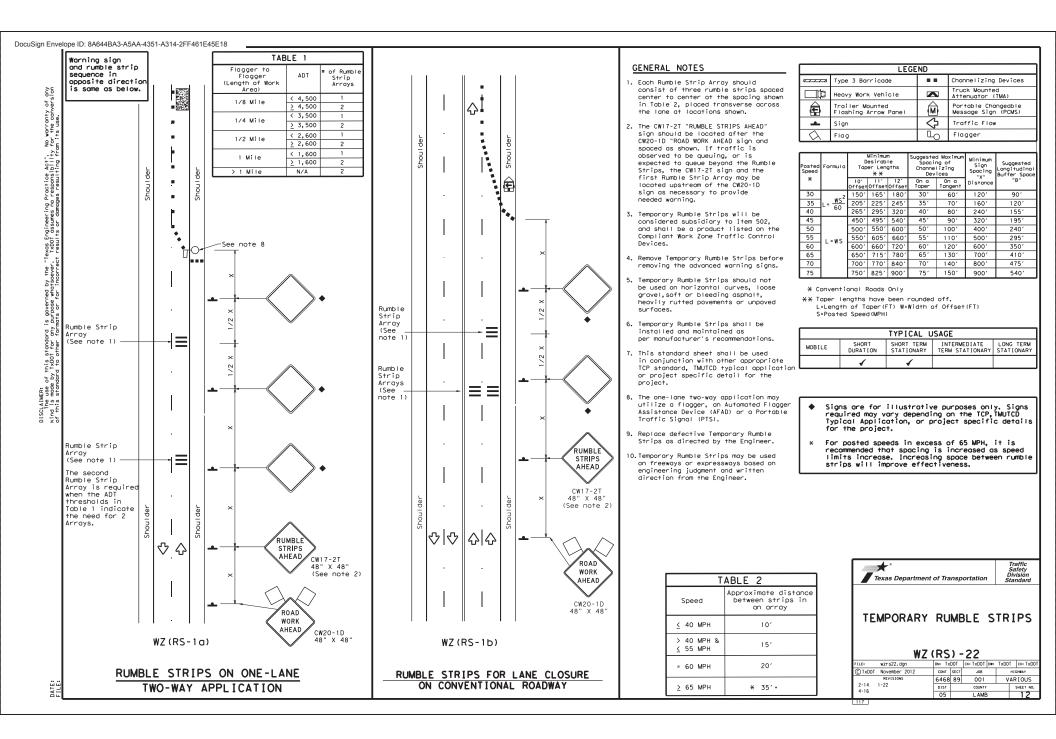












- 2. The development and design of the Traffic Control Plan (TCP) is the responsibility of the Engineer.
- 3. The Contractor may propose changes to the TCP that are signed and sealed by a licensed professional engineer for approval. The Engineer may develop, sign and seal Contractor proposed changes.
- 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 Association of State Highway and Transportation Officials (AASHTO), "A Policy on Geometric Design of Highways and Streets," the TxDOT "Roadway Design Manual" or engineering judgment.
- 6. When projects abut, the Engineer(s) may omit the END ROAD WORK, TRAFFIC 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 shoets, the CCP 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 iustify 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.
- The temporary traffic control devices shown in the illustrations of the 9. 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 TEXT 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 at 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 as close to the right-of-way line as possible, or located behind a barrier or guardrail, or as approved by the Engineer.

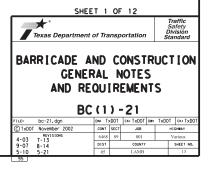
## WORKER SAFETY NOTES:

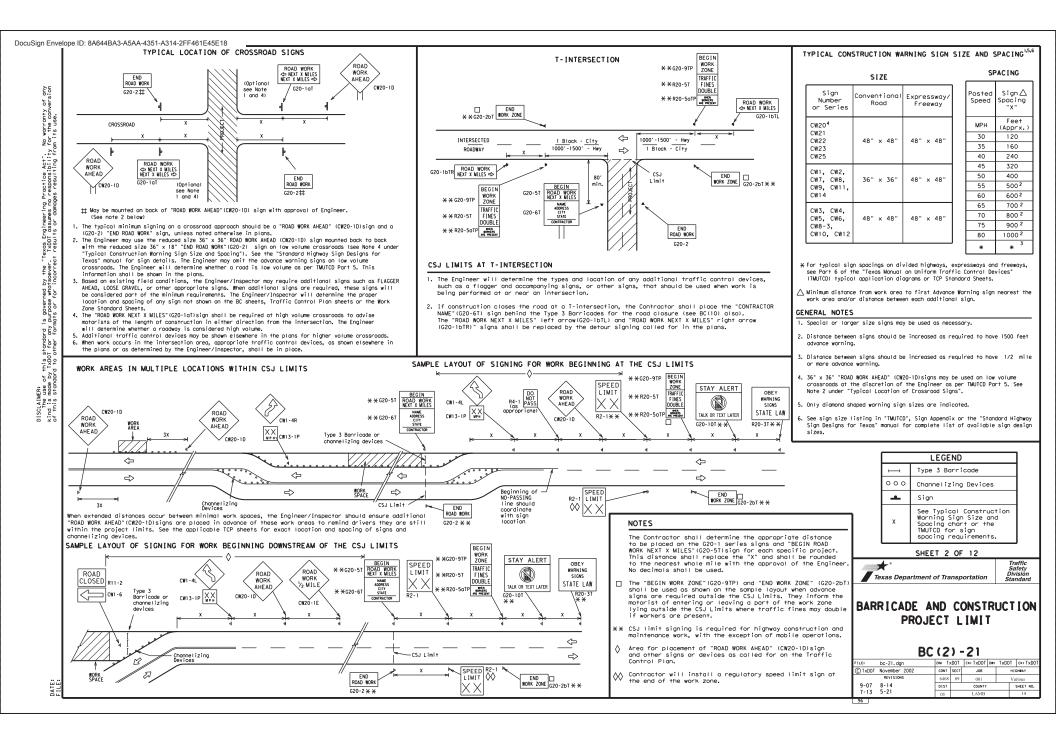
- 1. Workers on foot who are exposed to traffic or to construction equipment within the right-of-way shall wear high-visibility safety apparel meeting the requirements of ISEA "American National Standard for High-Visibility Apparel," or equivalent revisions, and labeled as ANSI 107-2004 standard performance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

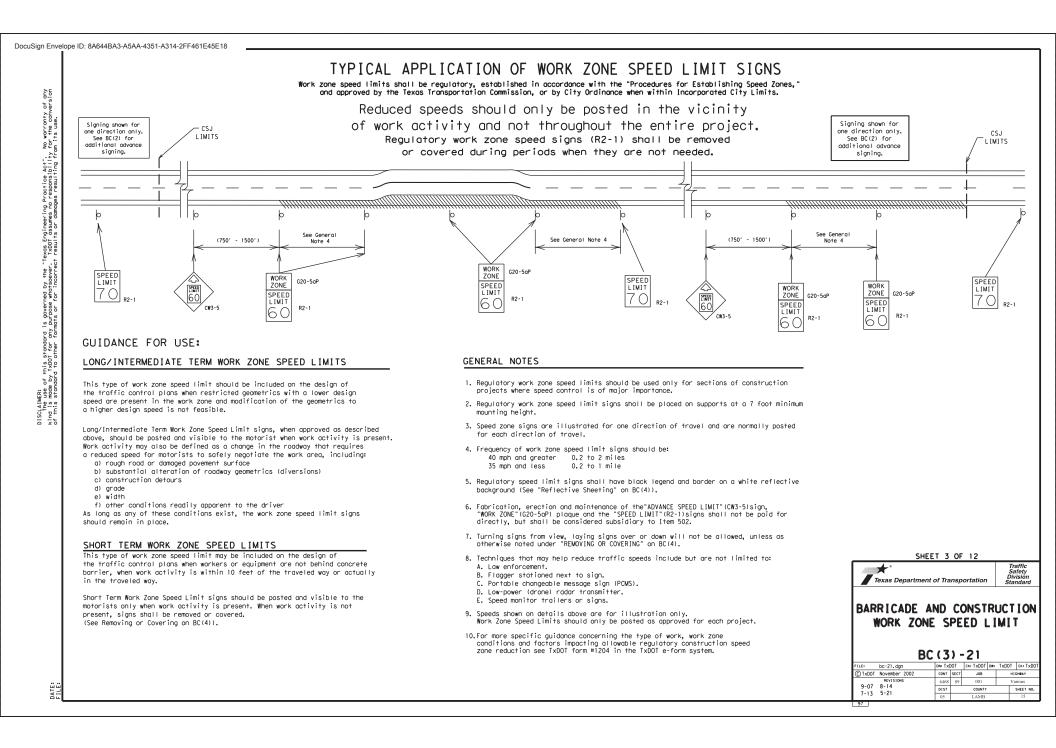
# COMPLIANT WORKZONE TRAFFIC CONTROL DEVICES

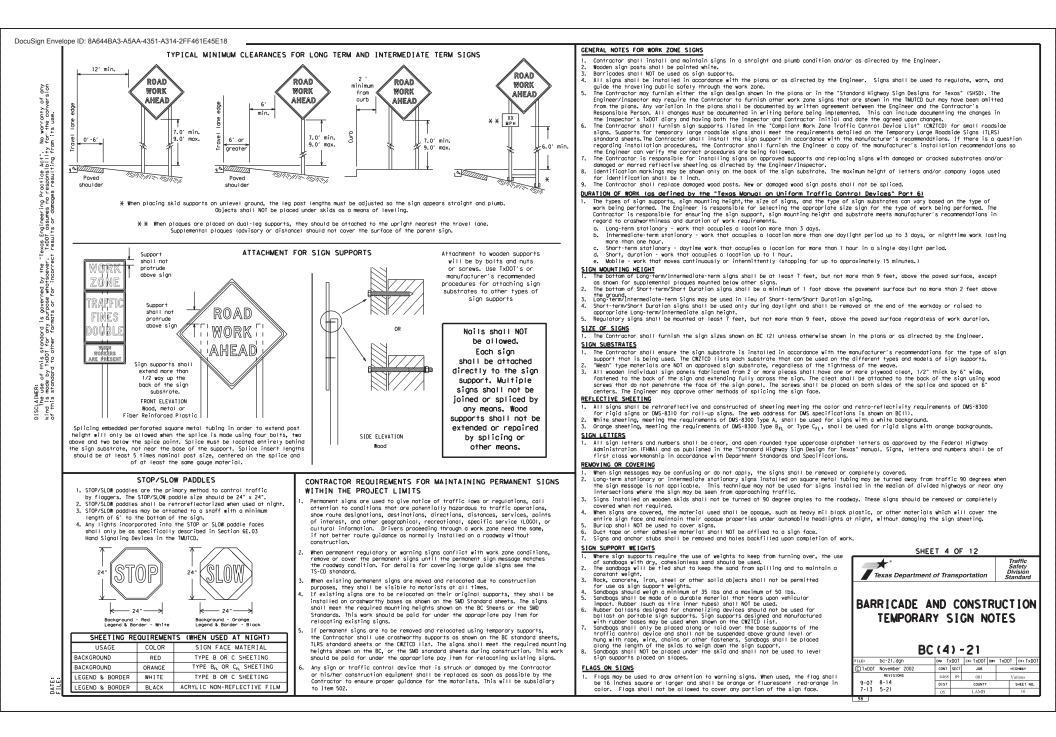
- 1. Only pre-qualified products shall be used. The "Compliant Work Zone Traffic Control Devices List" (CWZTCD) describes pre-gualified products and their sources.
- 2. Work zone traffic control devices shall be compliant with the Manual for Assessing safety Hardware (MASH).

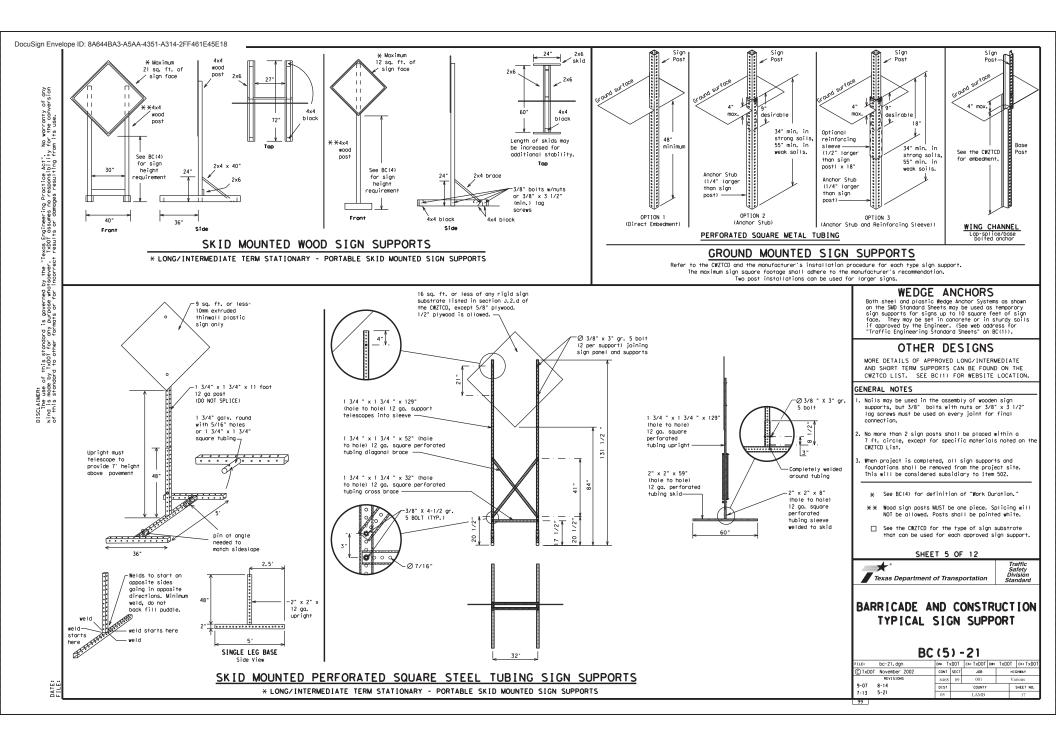
THE DOCUMENTS BELOW CAN BE FOUND ON-LINE AT http://www.txdot.gov
COMPLIANT WORK ZONE TRAFFIC CONTROL DEVICES LIST (CWZTCD)
DEPARTMENTAL MATERIAL SPECIFICATIONS (DMS)
MATERIAL PRODUCER LIST (MPL)
ROADWAY DESIGN MANUAL - SEE "MANUALS (ONLINE MANUALS)"
STANDARD HIGHWAY SIGN DESIGNS FOR TEXAS (SHSD)
TEXAS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











bars is appropriate.

Roadway designation

DISCLAIMER: The use of this standord is governed by the "fexas Engineering Practice Act". No warranty of any that is mode by IX001 for any purpose martsoever. IX001 assumes no responsibility for the conversion of this standard to other formats or for incorrect results or damages resulting from its use.

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

## PORTABLE CHANGEABLE MESSAGE SIGNS

- 1. The Engineer/Inspector shall approve all messages used on portable
- changeable message signs (PCMS). Messages on PCMS should contain no more than 8 words (about four to eight characters per word), not including simple words such as "TO," 2. "FOR," "AT," etc.
- Messages should consist of a single phase, or two phases that alternate. Three-phase messages are not allowed. Each phase of the message should convey a single thought, and must be understood by itself.
- Use the word "EXIT" to refer to an exit ramp on a freeway; i.e.,
- "EXIT CLOSED." Do not use the term "RAMP." 5. Always use the route or interstate designation (IH, US, SH, FM)
- along with the number when referring to a roadway. When in use, the bottom of a stationary PCMS message panel should be 6. a minimum 7 feet obove the roadway, where possible. 7. The message term "WEEKEND" should be used only if the work is to
- 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
- is to begin on Friday evening and/or continue into Monday morning. 8. The Engineer/Inspector may select one of two options which are available for displaying a two-phase message on a PCMS. Each phase may be displayed for either four seconds each or for three seconds each.
- Do not "flash" messages or words included in a message. The message should be steady burn or continuous while displayed.
- 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. Do not use the word "Danger" in message.
   Do not display the message "LANES SHIFT LEFT" or "LANES SHIFT RIGHT"
- on a PCMS. Drivers do not understand the message. 13. Do not display messages that scroll horizontally or vertically across
- the face of the sign. 14. The following table lists abbreviated words and two-word phrases that are acceptable for use on a PDMS. Both words in a phrase must be displayed together. Words or phrases not on this list should not be abbreviated, unless shown in the TMUTCD.
- abbreviated, unless shown in the MUICU. 15. POMS 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 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 and must be legible from at least 400 feet.
- Guno must be regulate train on recus you reet. 16. Each line of text should be centered on the message board rather than left or right justified. 17. If disabled, the POMS should default to an illegible display that will
- PCMS has malfunctioned. A pattern such as a series of horizontal solid

WORD OR PHRASE	ABBREVIATION	WORD OR PHRASE	ABBREVIATION
Access Road	ACCS RD	Major	MAJ
Alternate	ALT	Miles	MI
Avenue	AVE	Miles Per Hour	MPH
Best Route	BEST RTE	Minor	MNR
Boulevard	BLVD	Monday	MON
Bridge	BRDG	Normal	NORM
Cannot	CANT	North	N
Center	CTR	Nor thbound	(route) N
Construction Ahead	CONST AHD	Parking Road	PK ING RD
CROSSING	XING	Right Lane	RT LN
Detour Route	DETOUR RTE	Saturday	SAT
Do Not	DONT	Service Road	SERV RD
East	F		SHLDR
Eastbound	(route) E	Shoulder	SHLDR
Emergency	EMER	Slippery	SLIP
Emergency Vehicle		South Southbound	
Entrance, Enter	ENT		(route) S SPD
Express Lane	EXP LN	Speed Street	ST
Expressway	EXPWY		SUN
XXXX Feet	XXXX FT	Sunday	PHONE
Fog Ahead	FOG AHD	Telephone	
Freeway	FRWY, FWY	Temporary Thursday	TEMP
Freeway Blocked	FWY BLKD		TO DWNTN
Friday	FRI	To Downtown Traffic	TRAF
Hazardous Drivina			
Hazardous Material		Travelers	TRVLRS
High-Occupancy	HOV	Tuesday	TUES
Vehicle		Time Minutes	TIME MIN
Highway	HWY	Upper Level	UPR LEVEL
Hour (s)	HR. HRS	Vehicles (s)	VEH, VEHS
Information	INFO	Warning	WARN
It Is	ITS	Wednesday	WED
Junction	JCT	Weight Limit	WTLIMIT
Left	LFT	West	W
Left Lane	LFT LN	Westbound	(route) W
	LN CLOSED	Wet Pavement	WET PVMT
Lower Level	LWR LEVEL	Will Not	WONT
Maintenance	MAINT		

RECOMMENDED PHASES	AND FORMATS FOR	PCMS MESSAGES DU	JRING ROADWORK ACTIVITIES

(The Engineer may approve other messages not specifically covered here.)

# Phase 2: Possible Component Lists

Road/Lane/Ramp	o Closure List	Other Cond	ition List	Actio
FREEWAY CLOSED X MILE	FRONTAGE ROAD CLOSED	ROADWORK XXX FT	ROAD REPAIRS XXXX FT	
ROAD CLOSED AT SH XXX	SHOULDER CLOSED XXX FT	FLAGGER XXXX FT	LANE NARROWS XXXX FT	x
ROAD CLSD AT FM XXXX	RIGHT LN CLOSED XXX FT	RIGHT LN NARROWS XXXX FT	TWO-WAY TRAFFIC XX MILE	EX
RIGHT X LANES CLOSED	RIGHT X LANES OPEN	MERGING TRAFFIC XXXX FT	CONST TRAFFIC XXX FT	S U
CENTER LANE CLOSED	DAYTIME LANE CLOSURES	LOOSE GRAVEL XXXX FT	UNEVEN LANES XXXX FT	T US
NIGHT LANE CLOSURES	I-XX SOUTH EXIT CLOSED	DETOUR X MILE	ROUGH ROAD XXXX FT	Т
VARIOUS LANES CLOSED	EXIT XXX CLOSED X MILE	ROADWORK PAST SH XXXX	ROADWORK NEXT FRI-SUN	E
EXIT CLOSED	RIGHT LN TO BE CLOSED	BUMP XXXX FT	US XXX EXIT X MILES	R
MALL DRIVEWAY CLOSED	X LANES CLOSED TUE - FRI	TRAFFIC SIGNAL XXXX FT	LANES SHIFT *	- (
XXXXXXXX BLVD CLOSED	* LANES SHIFT in Pho	ase 1 must be used with	STAY IN LANE in Phos	se 2.

Phase 1: Condition Lists

A		e/E Lis	ffect on Trav st	'e I	Location List	
	MERGE RIGHT		FORM X LINES RIGHT		AT FM XXXX	
	DETOUR NEXT X EXITS		USE XXXXX RD EXIT		BEFORE RAILROAD CROSSING	
	USE EXIT XXX		USE EXIT I-XX NORTH		NEXT X MILES	-
	STAY ON US XXX SOUTH		USE I-XX E TO I-XX N		PAST US XXX EXIT	-
	TRUCKS USE US XXX N	]	WATCH FOR TRUCKS		XXXXXXX TO XXXXXXX	-
	WATCH FOR TRUCKS		EXPECT DELAYS		US XXX TO FM XXXX	-
	EXPECT DELAYS		PREPARE TO STOP			
	REDUCE SPEED XXX FT		END SHOULDER USE			
•	USE OTHER ROUTES		WATCH FOR WORKERS			
e 2.	STAY IN LANE	*			*	

### Notice List TUE-FRI XX AM-X PM MAXIMUM APR XX-XХ X PM-X AM MINIMUM BEGINS MONDAY ADVISORY BEGINS ΜΔΥ ΧΧ MAY X-X XX PM -ΧΧ ΔΜ NEXT CAUTION FRI-SUN XX AM ΤО XX PM NEXT TUE AUG XX TONIGHT XX PM-

XX AM

\* \* Advance

\* See Application Guidelines Note 6.

Warning

List

SPEED

LIMIT

XX MPH

SPEED

XX MPH

SPEED

XX MPH

SPEED

XX MPH

RIGHT

I ANF

EXIT

USE

DRIVE

SAFELY

DRIVE

WITH

CARE

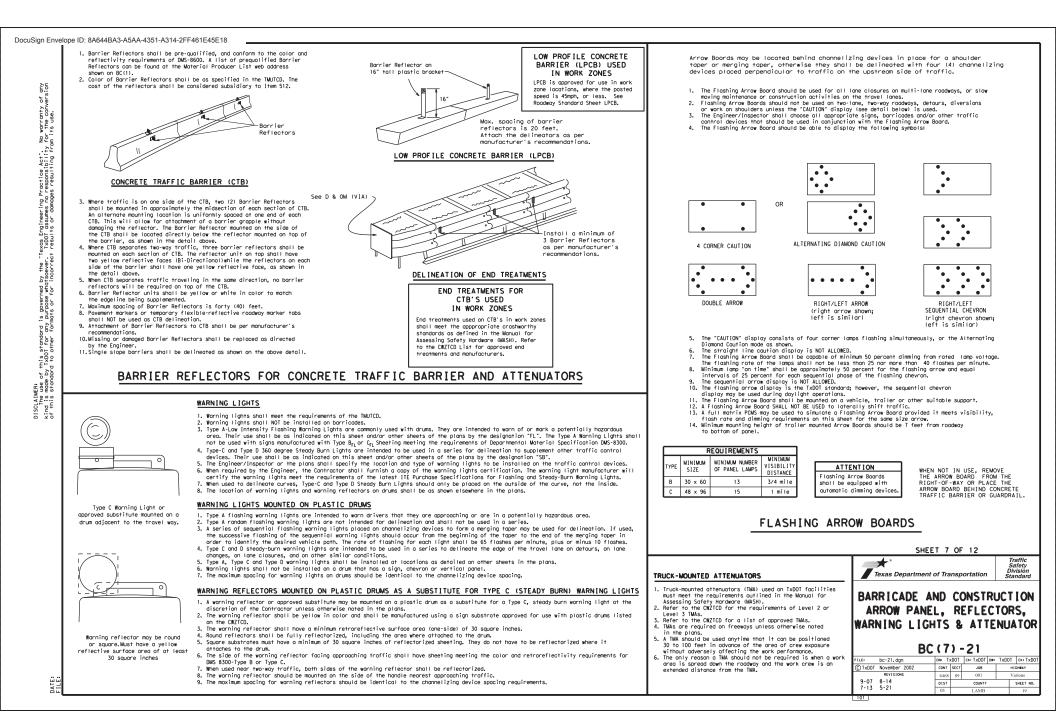
#### APPLICATION GUIDELINES

- 1. Only 1 or 2 phases are to be used on a PCMS.
- The 1st phase (or both) should be selected from the "Road/Lane/Romp Closure List" and the "Other Condition List".
- A 2nd phase can be selected from the "Action to Take/Effect on Travel, Location, General Warning, or Advance Notice
- Phase Lists". 4. A Location Phase is necessary only if a distance or location
- is not included in the first phase selected.
- If two PCMS are used in sequence, they must be separated by a minimum of 1000 ft. Each PCMS shall be limited to two phases, and should be understandable by themselves.
- For advance notice, when the current date is within seven days of the actual work date, calendar days should be replaced with days of the week. Advance notification should typically be for

#### WORDING ALTERNATIVES

- The words RIGHT, LEFT and ALL can be interchanged as appropriate.
   Roadway designations IH, US, SH, FM and LP can be interchanged as
- oppropriate.
- EAST, WEST, NORTH and SOUTH (or abbreviations E, W, N and S) can be interchanged as appropriate.
- Highway names and numbers replaced as appropriate.
   ROAD, HIGHWAY and FREEWAY can be interchanged as needed.
- 6. AHEAD may be used instead of distances if necessary.
- FT and MI, MILE and MILES interchanged as appropriate.
   AT, BEFORE and PAST interchanged as needed.
- 9. Distances or AHEAD can be eliminated from the message if a location phase is used.

2010	2/0 2/1	Sireer	31	no more than one week prior to the work.			
ay	EXPWY	Sunday	SUN		SHEET	6 OF 12	
1	XXXX FT	Telephone	PHONE				T
d	FOG AHD	Temporary	TEMP	DONG CIONG WITHIN THE D.O.W. CHALL DE DEHIND CHADDRAIL OD			Traffic Safetv
-	FRWY, FWY	Thursday	THURS	PCMS SIGNS WITHIN THE R.O.W. SHALL BE BEHIND GUARDRAIL OR			Division
Blocked	FWY BLKD	To Downtown	TO DWNTN	CONCRETE BARRIER OR SHALL HAVE A MINIMUM OF FOUR (4)	Texas Department of 1	Transportation	Standard
	FRI	Traffic	TRAF	PLASTIC DRUMS PLACED PERPENDICULAR TO TRAFFIC ON THE		I	
	HAZ DRIVING	Travelers	TRVLRS				
ıs Materia	HAZMAI	Tuesday	TUES	UPSTREAM SIDE OF THE PCMS, WHEN EXPOSED TO ONE DIRECTION			I
upancy	HOV	Time Minutes	TIME MIN	OF TRAFFIC. WHEN EXPOSED TO TWO WAY TRAFFIC, THE FOUR DRUMS	BARRICADE AND	) CONSTRU	
	HWY	Upper Level	UPR LEVEL				
		Vehicles (s)	VEH, VEHS	SHOULD BE PLACED WITH ONE DRUM AT EACH OF THE FOUR CORNERS OF THE UNIT.	PORTABLE (	CHANGEABL	E I
	HR, HRS	Warning	WARN				
ion	INFO	Wednesday	WED	FULL MATRIX PCMS SIGNS	I MESSAGE S	IGN (PCMS	5) [
	115	Weight Limit	WT LIMIT				
1	JCT	West	W	1. When Full Matrix PCMS signs are used, the character height and legibility/visibility requirements shall be maintained as listed in Note 15 under "PORTABLE			
	LFT	Westbound	(route) W	CHANGEABLE MESSAGE SIGNS" above.	I BC (	6) - 21	
e	LFT LN	Wet Pavement	WET PVMT	2. When symbol signs, such as the "Flagger Symbol" (CW20-7) are represented graphically on the Full Matrix PCMS sign and, with the approval of the Engineer, it			
sed	LN CLOSED	Will Not	WONT	shall maintain the legibility/visibility requirement listed above.	FILE: DC-21.dgn DN:	TxDOT CK: TxDOT DW: T	xDOT CK: TxDOT
vel	LWR LEVEL			3. When symbol signs are represented graphically on the Full Matrix PCMS, they shall only supplement the use of the static sign represented, and shall not substitute	C TxDOT November 2002 co	NT SECT JOB	HIGHWAY
ince	MAINT	J		for, or replace that sign.	V	468 89 001	Various
				4. A full matrix PCMS may be used to simulate a flashing arrow board provided it meets the visibility, flash rate and dimming requirements on BC(7), for the	9-07 8-14		SHEET NO.
on # IH-n	number. US-numbe	er, SH-number, FM-i	number	same size arrow.			SHEET NO.
					7-13 5-21 0:	5 LAMB	18
					100		



#### GENERAL NOTES

ç c

Let. Met. of this stondard is governed by the "Texas Engineering Practice Act". No warranty of mode by Tabolifer any buotese wnitsever. Taboli Gasames no responsibility for the conver stondard to onthe formats or for Incortect results or danges feaulting itsm its use.

DISCLAIME The u kind is n of this s

- 1. For long term stationary work zones on freeways, drums shall be used as the primary channelizing device.
- 2. For intermediate term stationary 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

Handle -

of water or

4" min

8" max

(typ)-

debris

- a

36"

- 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 cones or one-piece cones as approved by the Engineer.
- Drums and all related items shall comply with the requirements of the current version of the "Texas Manual on Uniform Traffic Control Devices" (TMUTCD) and the "Compliant Work Zone Traffic Control Devices List" (CWZTCD).
- 5. 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.
- 6. 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-qualified 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.
- Plastic drums 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 (body installed on base) shall be a minimum of 36 inches and a maximum of 42 inches.
- 5. The top of the drum shall 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 holes 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
- 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 separating the drum body from the base.
- Plastic drums shall be constructed of ultra-violet stabilized, orange, high-density polyethylene (HDPE) or other approved material.
- 9. Drum body shall have a maximum unballasted weight of 11 lbs. 10 Drum and base shall be marked with manufacturer's name and model number

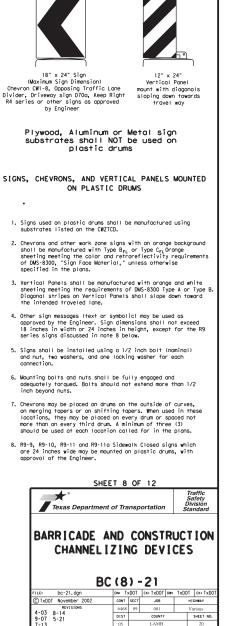
#### RETROREFLECTIVE SHEETING

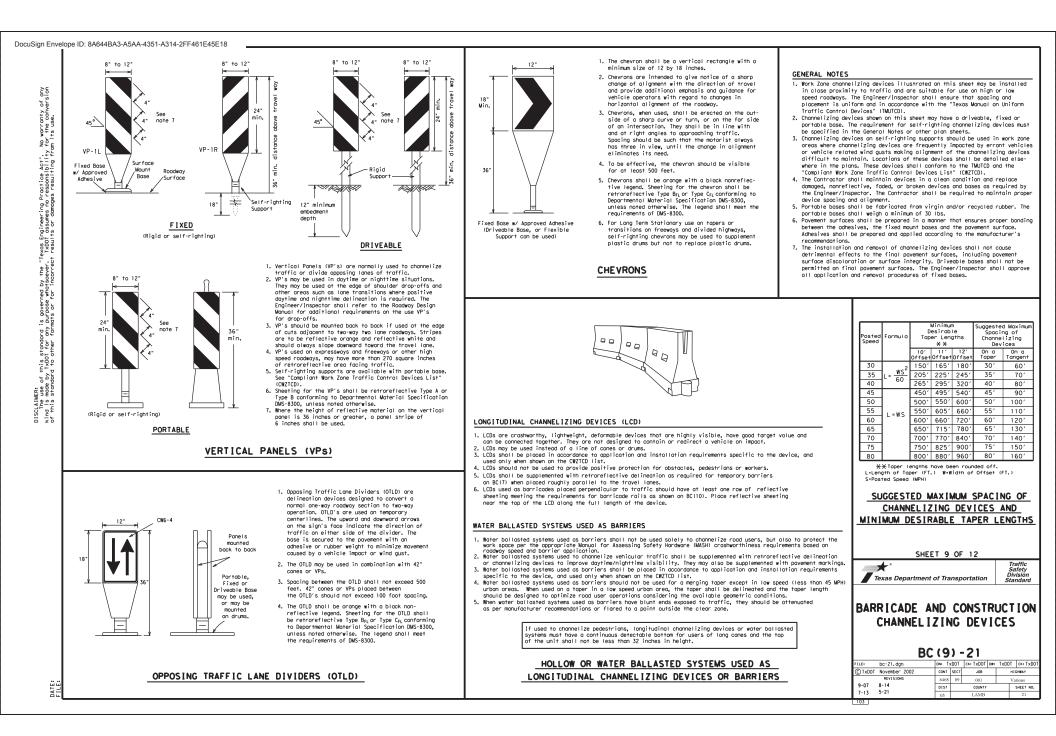
- 1. The stripes used on drums shall be constructed of sheeting meeting the The simples based on drabins sharing declaring bindering integring in the plans.
- The sheeting shall be suitable for use on and shall adhere to the drum surface such that, upon vehicular impact, the sheeting shall remain adhered in-place and exhibit no detaminating, araking, or loss of retroreflectivity other than that loss due to abrasion of the sheeting surface.

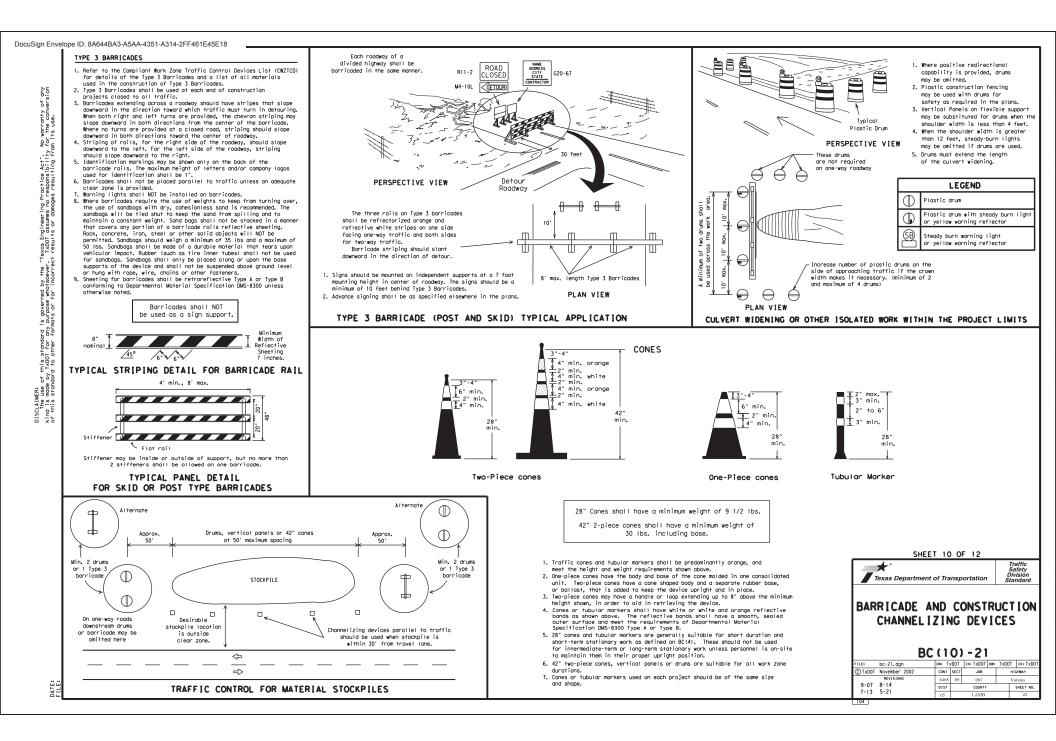
#### BALLAST

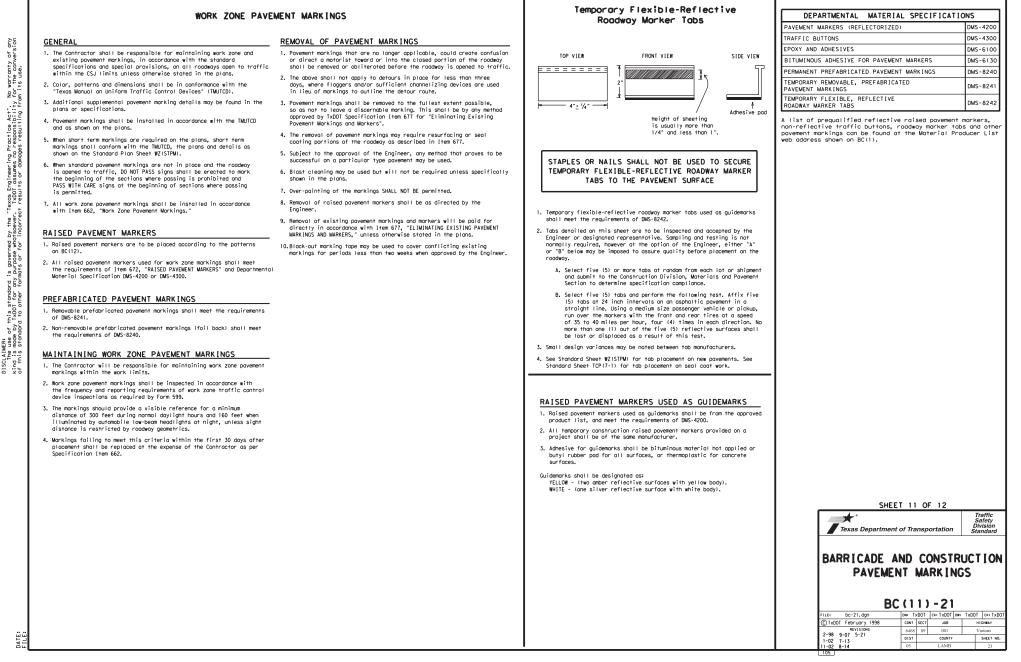
- Unballasted bases shall be large enough to hold up to 50 lbs. of sand. This base, when filled with the ballast material, should weigh between 35 lbs (minimum) and 50 lbs (maximum). The ballast may be sand in one to three sandbaas separate from the base, sand in a sand-filled plastic base, or other ballasting devices as approved by the Engineer. Stacking of sandbaas will be allowed, however height of sandbaas above pavement surface may not exceed 12 inches. 2. 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.
- Recycled truck tire sidewalls may be used for ballast on drums approved for this type of ballast on the CWZTCD list. 4. The ballast shall not be beavy 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.
- Ballast shall not be placed on top of drums.
- Adhesives may be used to secure base of drums to pavement.

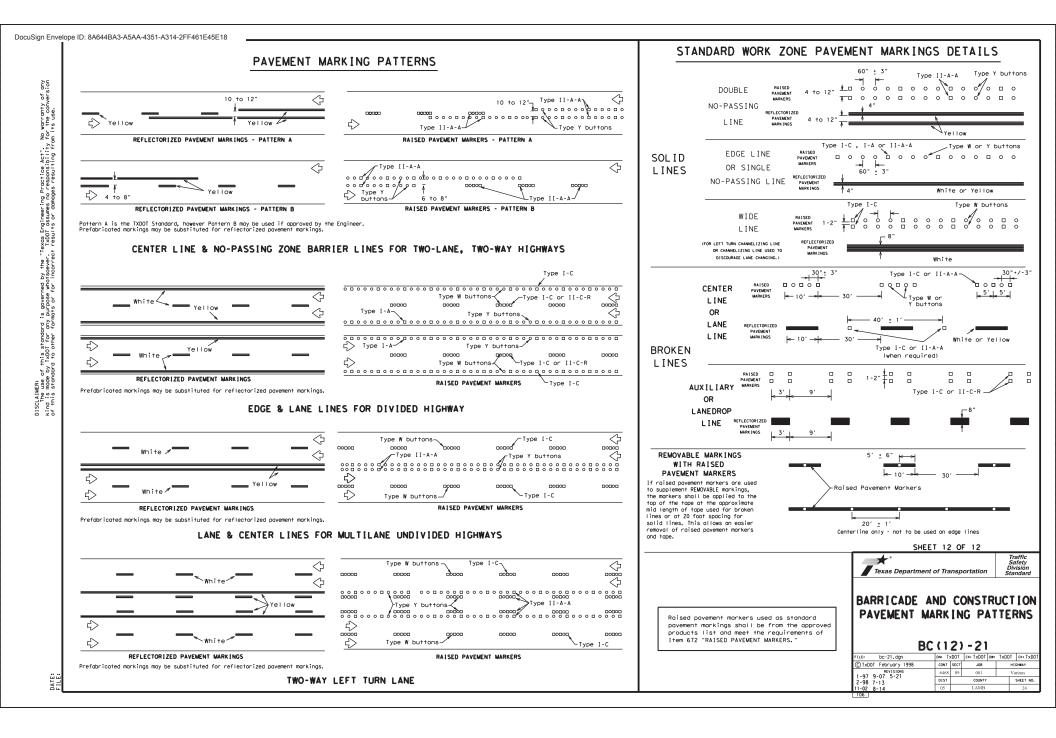
- 18" min Top should not 9/16" dia. (typ) allow collection for mounting signs and 6 h worning Lights 4" max\_ Each drum shall have a minimum of 2 orange and 2 white stripes 18" x 24" Sign using Type A or Type B (Maximum Sign Dimension) retroreflective 2" max sheeting with the top stripe being (typ.) orange. by Engineer Toper to allow for stacking a See Ballast minimum of 5 drums Note 3 This detail is not intended for fabrication. See note 3 and the CWZTCD list for providers of approved Detectable Pedestrian Barricades -Continuous smooth rail for hand trailing the intended traveled lane. 36 connection. Detectable Edge inch beyond nuts. 2" Max DETECTABLE PEDESTRIAN BARRICADES
  - When existing pedestrian facilities are disrupted, closed, or relocated in a TTC zone, the temporary facilities shall be detectable and include accessibility features consistent with the features present in the existing pedestrian facility. Refer to WZ(BIS-2) for Pedestrian Control requirements for Sidewalk Diversions, Sidewalk Detours and Crosswalk Closures, 2. 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. 3. 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
  - 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. Worning lights shall not be attached to detectable pedestrian barricades. 6.
  - 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.











DocuSign Envelope ID: 8A644BA3-A5AA-4351-A314-2FF461E45E18 I. STORMWATER POLLUTION PREVENTION-CLEAN WATER ACT SECTION 402 TPDES IXR 150000: Stormwater Discharge Permit or Construction General Permit whats its required for projects with 1 or more acres disturbed soil. Projects with any any purpose wi esulting from disturbed soil must protect for erosion and sedimentation in accordance with Item 506. List MS4 Operator(s) that may receive discharges from this project. They may need to be notified prior to construction activities. TxDOT for damages re 2. No Action Required Required Action ζP is mode r results Action No. 1. Prevent stormwater pollution by controlling erosion and sedimentation in accordance with TPDES Permit TXR 150000. any kind incorrect 2. This project disturbs less than one acre of surface area. The contractor is responsible for any PSL's as defined in the Standard Specifications for Construction and Maintenance of Highways, Streets, and Bridges (2014 No warranty of formats or for Edition, Item 7, Section 7.7, Page 43). The total disturbed acreage is the combined acreage to be disturbed on the project and any contractor PSL's. This EPIC must be updated if the disturbed area increases to one or more acres during the course of construction. It may become necessary to post a site notice and/or NOI for the project and/or PSL's. Act". II. WORK IN OR NEAR STREAMS, WATERBODIES AND WETLANDS CLEAN WATER ACT SECTIONS 401 AND 404 Engineering Practice of this standard to c USACE Permit required for filling, dredging, excavating or other work in any water bodies, rivers, creeks, streams, wetlands or wet areas. The Contractor must adhere to all of the terms and conditions associated with the following permit(s): No Permit Required the "Texas | conversion o Nationwide Permit 14 - PCN not Required (less than 1/10th acre waters or wetlands affected) Nationwide Permit 14 - PCN Required (1/10 to <1/2 acre, 1/3 in tidal waters) this standard is governed by mes no responsibility for the Individual 404 Permit Required Other Nationwide Permit Required: NWP# Required Actions: List waters of the US permit applies to, location in project and check Best Management Practices planned to control erosion, sedimentation and post-project TSS. 1. 2. 3. The elevation of the ordinary high water marks of any areas requiring work to be performed in the waters of the US requiring the use of a nationwide permit can be found on the Bridge Layouts. Best Management Practices:

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 Basin
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	s 🗌 Compost Filter Berm and Sock	s 🗌 Vegetation Lined Ditches
	Stone Outlet Sediment Traps	Sand Filter Systems
	Sediment Basins	Grassy Swales

111.	CULTURAL	RESOURCES

Refer to TxDOT Standard Specifications in the event historical issues or archeological 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.

No Action Required Required Action

### IV. VEGETATION RESOURCES

Preserve native vegetation to the extent practical. Contractor must adhere to Construction Specification Requirements Specs 162, 164, 192, 193, 506, 730, 751, 752 in order to comply with requirements for invasive species, beneficial landscaping, and tree/brush removal commitments

☐ No Action Required Required Action

Action No.

- 1. Comply with Executive Order 13112 on Invasive Plant Species.
- 2. Comply with TxDOT Executive Memorandum on beneficial landscaping.
- 3. Comply with temporary and permanent vegetation stabilization protocols of the SW3P.

#### V. FEDERAL LISTED. PROPOSED THREATENED. ENDANGERED SPECIES. CRITICAL HABITAT, STATE LISTED SPECIES, CANDIDATE SPECIES AND MIGRATORY BIRDS.

□ No Action Required Required Action

Action No.

- 1. Do not handle or harm Texas horned lizards, prairie doas, barn swallows or burrowing owls.
- No proirie dog towns can be damaged or crossed with equipment without approval of the Engineer.
- 3. No nests of burrowing owls (in prairie dog holes) can be disturbed or damaged (See General Notes).
- 4. No nests of barn swallows (likely on structures such as bridges) can be disturbed or damaged (See General Notes).
- 5. Obey the Bald and Golden Eagle Protection Act. Do not handle, harm, capture, disturb, or kill the species. Do not handle, harm, or take nests, eggs, feathers, bones, or eagles.
- 6. Obey the Migratory Bird Treaty Act of 1916, of which details there cannot be any handling or harming of migratory bird species; including their eggs, nests, or feathers.

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. The work may not remove active nests from bridges and other structures during nesting season of the birds associated with the pests. If caves or sinkholes are discovered, cease work in the immediate area, and contact the Engineer immediately,

### 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.

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.

#### LIST OF ABBREVIATIONS

BMP: Best Management Practice SPCC: Spill Prevention Control and Countermeasure SW3P: Storm Water Pollution Prevention Plan Construction General Permit DSHS: Texas Department of State Health Services PCN: Pre-Construction Notification Federal Highway Administration PSL: Project Specific Location Memorandum of Agreement TCEQ: Texas Commission on Environmental Quality Memorandum of Understanding TPDES: Texas Pollutant Discharge Elimination System Municipal Separate Stormwater Sewer System Texas Parks and Wildlife Department MBTA: Migratory Bird Treaty Act NOT: Notice of Termination TxDOT: Texas Department of Transportation Threatened and Endangered Species Nationwide Permit USACE: U.S. Army Corps of Engineers Notice of Intent USEWS: U.S. Fish and Wildlife Service

#### VI. HAZARDOUS MATERIALS OR CONTAMINATION ISSUES

General (applies to all projects):

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)?

- No No □ Yes
- 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:

No Action Required Required Action

### VII. OTHER ENVIRONMENTAL ISSUES

- (includes regional issues such as Edwards Aquifer District, etc.)
- Required Action ☐ No Action Required

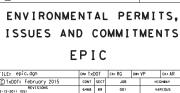
Action No.

- 1. Maintain equipment muffler systems and work hour restrictions to reduce traffic noise.
- No PSL's may be located in the prairie dog towns, playa lakes (wet or dry) or stream beds (wet or dry).
- No dumping of construction material in playa lakes or stream beds regardless 3. of property owner requests.
- 4 Contractor must obtain historical and archaeological clearances for off-site PSI's.
- 5. Contractor is responsible for air quality permits for concrete and asphalt batch and similar plants.
- Contractor is responsible for water appropriation or impoundment TCEQ permits. Contractor will protect environmentally sensitive areas with fencing, work
- sequencing or scheduling as directed.
- PSL's beyond the project right-of-way have "individual operator" status under the TPDES Construction General Permit and the Contractor is responsible for the SW3P and any TCEQ permits.
- No waste material of any type may be placed at any location where it could be washed into a water of the U.S. or a surface water of Texas.

-07-14 ADDED NOTE SECTION IV.

23-2015 SECTION I (CHANGED ITEM 112) ITEM 506, ADDED GRASSY SWALES.

- 10. Flood elevations will not be increased to a level that would violate flood plain regulations or ordinances
- 11. Contractor shall remove all **\***\* construction debris daily Texas Department of Transportation from the waterway by close of business, where applicable.
- 12. The SW3P, including best management practices, must be in-place prior to disturbing soil.



DIST

05

COUNTY

Design Division Standar

SHEET NO.

 Grossy Swales

MOA:

MOLE

NWP:

NOT

Obtain and keep on-site Material Safety Data Sheets (MSDS) for all hazardous