

Project Number: RMC 6466-35-001	<b>Control:</b> 6466-35-001
County: SAN JACINTO, ETC.	Highway: US 59, ETC.

GENERAL NOTES:

**PROJECT DESCRIPTION:** This project consists of Mill and Inlay, Overlay & Base Repair of Pavements at various locations within the Lufkin District, which consists of the following counties: Polk, Angelina, and San Jacinto.

**TXDOT PROJECT SUPERVISORS:** All work on this contract will be scheduled and directed by the Maintenance Section Supervisors listed below. Payment will be made monthly for work completed and accepted according to specifications. All payment requests should be directed to the following Maintenance Section Supervisors listed below.

<u>COUNTY</u>	SUPERVISOR	ADDRESS	CONTACT #
Polk	James Henagan	3161 US Highway 59 Livingston, TX 77351	(936)327-8914
San Jacinto	Chester Dixon	8066 SH 150 West Shepherd, TX 77371	(936)628-3328
Angelina	Steven Harris	1410 Kurth Drive Lufkin, TX 75901	(936) 634-3414

**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.

Furnish materials and make repairs to the existing roadway at any location damaged by construction operations. This work shall be done in an approved manner and will be subsidiary to various bid items.

Always provide suitable access to adjacent businesses, private property, and side roads.

Roadway cross slopes shall conform approximately to the existing surface, unless otherwise directed.

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 the Right of Way necessary for construction.

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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. 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

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.

The contractor's attention is directed to the EPIC sheet(s) included in this plan set for additional information regarding environmental permits, issues, and commitments.

# **ITEM 2: INSTRUCTIONS TO BIDDERS**

View plans on-line or download from the web at: https://www.txdot.gov/business/plans-online-bid-lettings.html

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 5: CONTROL OF THE WORK**

In the event utility lines needing unforeseen adjustments are encountered during construction operations, alter operations, and continue to prosecute the contract in such a manner that will allow utility adjustments to be made by others. An extension of working time may be granted for any delays caused by the utility adjustments if deemed necessary.

# **ITEM 7: LEGAL RELATIONS AND RESPONSIBILITIES**

The proposed work of this project consists of mill and inlay at various roadway locations shown in plans within the Angelina, San Jacinto, and Polk County Maintenance Sections. These activities maintain the original line and grade, hydraulic capacity, and original purpose of the structures. Therefore, this project meets the definition of a routine maintenance activity as

**General Notes** 

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defined in the TPDES General Permit No. TXR150000 issues March 5, 2023, and TCEQ's TPDES CGP does not apply.

Equipment storage or stockpiling of materials is not permitted in any pull-off or parking area labelled as a historic marker, or where historic markers are present.

Contractor to repair or replace in kind, at their own expense, any historic materials damaged (buildings, historical markers, etc) while executing work. Contractor is responsible for locating replacement source for historical materials damaged in the course of the work. TxDOT-Environmental Affairs Division is to be informed of proposed repairs to facilitate consultation with Texas Historical Commission prior to the execution of repairs.

# **ITEM 8: PROSECUTION AND PROGRESS**

For this project, 44 working days will be computed and charged in accordance with Item 8, Section 3.1.4, "Standard Workweek".

Time charges shall begin to accrue 7 calendar days after the authorization date to begin work unless otherwise approved by the Engineer. If work commences during the school year, the contractor shall not close any lanes prior to 8:30 AM.

All night work on the project shall be performed between the hours of 8 PM and 6 AM, unless otherwise approved in writing. No work will be allowed on Saturdays or between the hours of 6 AM and 8 PM on Sunday through Friday, unless otherwise approved in writing.

Along outside pavement edges construct a 3:1 maximum taper or backfill the same day as shown on the plans or as directed.

# **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:

- 1. 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).
- 3. The contractor does not complete the work continuously, unless approved by the Engineer.
- 4. The contractor fails to complete any requirements as stated in the general notes.

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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, until the contractor returns to a state of compliance or otherwise approved by the engineer.

# **ITEM 354: PLAINING AND TEXTURING PAVEMENT**

All planed areas shall be inlaid with HMA on the same day of the plaining operation.

Complete plaining operations in adjacent lanes and shoulders to the same point at the end of each day.

RAP produced from this project may be used in the HMA mixtures.

All RAP not utilized in the HMA shall be delivered to the appropriate maintenance section as shown below:

- Angelina County Maintenance: Material will be delivered to the Angelina County Maintenance Yard stockpile located at 1410 Kurth Drive Lufkin TX 75901 as directed.
- Polk County Maintenance: Material will be delivered to the Polk County Maintenance Facility stockpile located at 3161 US Highway 59 North Livingston TX 77351 as directed.
- San Jacinto County Maintenance: Material will be delivered to the San Jacinto County Maintenance Facility stockpile located at 10351 SH 150 West Shepherd TX 77371 as directed.

Use an approved ski device to control longitudinal grade.

Where the underlying flexible base is exposed during the plaining operation, prime this area with an asphalt at a rate as directed and patch with an approved HMA material, at the end of the day's operation in which it occurs. These items of work will not be paid for directly but will be subsidiary to Item 354.

# ITEM 502: BARRICADES, SIGNS, AND TRAFFIC HANDLING

The Maintenance Section Supervisor and Area Engineer shall decide if the "Maintenance Work Zone Speed Limit Signs" are needed. If needed, these signs will not be paid for directly, but will be considered subsidiary to item 502.

**General Notes** 

Sheet 4A

Highway: US 59, ETC.

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Install vertical panels or drums at 100-ft. spacings where drop-offs or construction work occurs along edges of existing pavement. Unless otherwise authorized, these shall remain in place until final striping.

Project limit barricades will not be required. Daily lane closure signage with contract description information sign will be required.

Ensure the Contractor's Responsible Person (CRP) 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.

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.

Install "No Center Line" (CW8-12) signs as directed.

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.

Limit lane closures for multilane roads (4 or more lanes) to 2 mi. in length, unless otherwise approved.

Limit lane closures for 2 lane roads to 1 mi. in length, unless otherwise approved.

Lane closure lengths can exclude the end tapers.

Plan the sequence of work to minimize the time lane closures are in place. Install lane closures only where construction operations are anticipated to start within 1 hr. and limited to the amount of lane that can be reached by the construction activity within 2 hr. unless otherwise approved.

No lane closures will be allowed on Noon on Fridays or on days preceding National Holidays unless otherwise approved.

Extra time has been added to the total number of working days allocated for this project to account for not working on Friday afternoons or the afternoon preceding a national holiday.

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

Install temporary rumble strips in accordance with Work Zone Standards wherever short duration or short-term stationary lane closures are in place and workers are present. Installation of rumble strips will be considered subsidiary to the set up requested.

Provide a pilot car to lead traffic through the work area. The pilot car will not be paid for directly but will be subsidiary to various bid items.

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# Project Number: RMC 6466-35-001

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Provide channelizing devices to restrict traffic from traveling on the shoulders.

Install "Be Prepared to Stop" (CW3-4) and "Flagger Ahead" (CW20-7aD) signs when flaggers are present. Position the signs where good visibility and traffic control can be maintained.

When directed use a flashing arrow board in addition to the required signs to warn motorists of flaggers.

Department approved safety vests shall be worn by all contractor's employees and visitors.

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.

Use additional flaggers at roadway intersections to direct traffic entering the work area, when deemed necessary by the Engineer.

Open all traffic lanes to traffic at the close of work each day.

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. 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.

Restrict construction operations so that no drop off along the edge of pavement will remain overnight.

All blading, rolling and scraper work to construct and remove temporary slopes adjacent to pavement drop-offs, will be considered subsidiary to various bid items.

Notify the Engineer prior to placing any materials or equipment on the right of way. Locate equipment, stockpiles, or other materials not in use as far as possible from the driving lanes and in no case closer than 30 ft. unless otherwise authorized. Any equipment, stockpiles, or materials placed within 30 ft. of the driving lane must have adequate signs, barricades, or other warning devices as approved. As a minimum place an 8 ft. wide TY III Barricade on the approach side of each site that is within 30 ft. of the driving lane. Barricade the site similarly on the departure side if the location is within 30 ft. of the opposing traffic lane.

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.

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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. 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.

# **ITEM 504: FIELD OFFICE AND LABORATORY**

Provide a Type D Structure. Asphalt content will be determined by the ignition method.

# **ITEM 585: RIDE QUALITY FOR PAVEMENT SURFACES**

Use Surface Test Type A.

# **ITEM 662: WORK ZONE PAVEMENT MARKINGS**

Install short term pavement markings (removable) on the finish course of the overlay immediately following final rolling, offset from lane lines so there will be no conflict with permanent stripes.

After placement of permanent striping on the finish course, remove all short-term pavement markings.

# **ITEM 666: REFLECTORIZED PAVEMENT MARKINGS**

Remove loose aggregate immediately prior to placing pavement markings.

Place reflectorized pavement markings no sooner than 3 days nor later than 14 days after placement of the surface treatment.

Before construction operations begin, observe, and mark existing passing/no passing zones. Passing/no passing zones shall be verified prior to placement of permanent pavement markings.

Furnish Type II glass beads conforming to DMS-8290, "Glass Traffic Beads", for Type I and II Markings.

When directed, use approved equipment to brush or sweep the roadway of excessive contaminate materials prior to applying pavement markings. This work will not be paid for directly but will be subsidiary to Item 666.

Perform all work during daylight hours and when weather conditions are suitable for the work. Work will be performed on weekdays, Monday thru Friday. No work will be performed on weekends without written permission.

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The quantities shown are estimates only. Payment will be based on the actual quantities placed.

# **ITEM 672: RAISED PAVEMENT MARKERS**

Place permanent raised pavement markers after permanent striping has been completed.

# ITEM 3076: DENSE-GRADED HOT-MIX ASPHALT (SMALL QUANTITY)

Design the mixture with the Super Gyratory Compactor (SGC).

Trial batches may be required whenever the design has not been produced in the previous 12 months. Trial batches will be subsidiary to the bid item.

No surface aggregate classification is required.

No Department-owned RAP is available.

Cover each load of mixture with waterproof tarpaulins.

Supply tack coat binder meeting Item 300, SP 300-007 unless otherwise approved by the Engineer.

Operate the spreading and finishing machine at a uniform forward speed consistent with the plant production rate, hauling capability, and roller train capacity to result in a continuous operation. The speed shall be slow enough, so that stopping between trucks is not ordinarily required. If the Engineer determines sporadic delivery of material is adversely affecting the HMA placement, the Engineer may require paving operations to cease until acceptable methods are employed to minimize starting and stopping of the paver.

Add hydrated lime to all HMA mixtures at a minimum rate of 1.0% by weight of the total aggregate, except for those mixtures containing RAP and/or RAS. Mixtures that contain RAP and/or RAS shall be designed at a minimum rate of 0.5% of lime by weight and the test results will be evaluated by the engineer to determine if lime or a liquid anti-strip additive will be used. The hydrated lime shall meet the requirements of DMS-6350, "Lime and Lime Slurry". The hydrated lime shall be added in accordance with the construction method in Item 301, "Asphalt Antistripping Agents", unless otherwise approved. This lime will be subsidiary to this item.

For HMA placements greater than 2 inches, construct longitudinal joints adjacent to travel ways with a maximum 1-inch vertical edge and an adjacent 3:1 maximum taper.

Along outside pavement edges construct a 3:1 maximum taper or backfill the same day as shown on the plans or as directed.

Remove and properly dispose of any piles of asphaltic concrete and all other debris left on the right of way daily.

# **ITEM 3077: SUPERPAVE MIXTURES**

No Department-owned RAP is available.

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A material transfer vehicle (MTV) will be required for MTV is defined as a self-propelled, wheel-mounted ve	1 5	Provide a tack that meets the requirements of Item 3 approved by the engineer.	300, Table 3A or Table 10A, unless otherwise

Operate the spreading and finishing machine at a uniform forward speed consistent with the plant production rate, hauling capability, and roller train capacity to result in a continuous operation. The speed shall be slow enough so that stopping between trucks is not ordinarily required. If, in the opinion of the Engineer, sporadic delivery of material is adversely affecting the HMA placement, the Engineer may require paving operations to cease until acceptable methods are employed to minimize starting and stopping of the paver.

A material transfer vehicle (MTV) will be required. An MTV is defined as a self-propelled, wheel-mounted vehicle capable of receiving HMA from the haul trucks separate from the paver. The MTV shall have a minimum storage capacity of approximately 25 tons and shall be equipped with a pivoting discharge conveyor and a means of completely remixing the HMA prior to placement.

Use aggregate that meets the SAC requirements of class A materials, no blending is allowed.

Remove and properly dispose of any piles of asphaltic concrete and all other debris left on the right of way daily.

# ITEM 6185: TRUCK MOUNTED ATTENUATOR (TMA) AND TRAILER ATTENUATOR (TA)

All crash attenuators shall meet current NCHRP-350 standards.

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.

Mobile Operations will require Two (2) TMA's, Mobile Operations for divided highways will require Three (3) TMA's and Stationary Operations will require One (1) TMA on this project. The Contractor will be responsible for determining if multiple operations will be ongoing at the same time to determine the total number of TMAs needed for the project.

The TMA/TA used for installation/removal of traffic control for a work area will be subsidiary to the TMA/TA used to perform the work.

Add hydrated lime to all HMA mixtures at a minimum rate of 1.0% by weight of the total aggregate, except for those mixtures containing RAP and/or RAS. Mixtures that contain RAP and/or RAS shall be designed at a minimum rate of 0.5% of lime by weight and the test results will be evaluated by the engineer to determine if lime or a liquid anti-strip additive will be used. The hydrated lime shall meet the requirements of DMS-6350, "Lime and Lime Slurry". The hydrated lime shall be added in accordance with the construction method in Item 301, "Asphalt Antistripping Agents", unless otherwise approved. This lime will be subsidiary to this item.

haul trucks separate from the paver. The MTV shall have a minimum storage capacity of

approximately 25 tons and shall be equipped with a pivoting discharge conveyor and a means of

completely remixing the HMA prior to placement. The Engineer may approve an alternative

Trial batches may be required whenever the design has not been produced in the previous 12 months. Trial batches will be subsidiary to the bid item.

Supply tack coat binder meeting Item 300, SP 300-007, unless otherwise approved by the Engineer.

Cover each load of mixture with waterproof tarpaulins.

device if it can receive HMA separate from the paver.

Operate the spreading and finishing machine at a uniform forward speed consistent with the plant production rate, hauling capability, and roller train capacity to result in a continuous operation. The speed shall be slow enough so that stopping between trucks is not ordinarily required. If, in the opinion of the Engineer, sporadic delivery of material is adversely affecting the HMA placement, the Engineer may require paving operations to cease until acceptable methods are employed to minimize starting and stopping of the paver.

Remove and properly dispose of any piles of asphaltic concrete and all other debris left on the right of way daily.

On Table 1 under <u>3077</u>.2.1.3, the Sand equivalent, %, Min is void and not replaced. The minimum percent for the sand equivalent shall be 45 for the combined aggregate.

# ITEM 3079: PERMEABLE FRICTION COURSE (PFC)

No RAP or RAS allowed.

Furnish a PG 76-22 binder.

Trial batches may be required whenever the design has not been produced in the previous 12 months. Trial batches will be subsidiary to Item 342.

Cover each load of mixture with waterproof tarpaulins.

**General Notes** 

Sheet 4D

# **Estimate & Quantity Sheet**

COUNTY San Jacinto



DISTRICT Lufkin HIGHWAY US0059

CONTROL SECTION JOB 6466-35-001 PROJECT ID A00208843 TOTAL COUNTY San Jacinto TOTAL EST. FINAL HIGHWAY US0059 ALT BID CODE DESCRIPTION UNIT EST. FINAL 351-6008 FLEXIBLE PAVEMENT STRUCTURE REPAIR(12") SY 51.000 51.000 SY 27,318.000 354-6176 PLANE ASPH CONC PAV (1 1/2" TO 2 1/2") 27,318.000 500-6001 MOBILIZATION LS 1.000 1.000 BARRICADES, SIGNS AND TRAFFIC HANDLING МО 4.000 4.000 502-6001 2,393.000 2,393.000 662-6067 WK ZN PAV MRK REMOV (W)6"(SLD) LF 1,996.000 662-6098 WK ZN PAV MRK REMOV (Y)6"(SLD) LF 1,996,000 LF 4,220.000 4,220.000 666-6305 RE PM W/RET REQ TY I (W)6"(BRK)(090MIL) 666-6308 RE PM W/RET REQ TY I (W)6"(SLD)(090MIL) LF 25,767.000 25,767.000 666-6317 RE PM W/RET REQ TY I (Y)6"(BRK)(090MIL) LF 310.000 310.000 RE PM W/RET REQ TY I (Y)6"(SLD)(090MIL) LF 17,245.000 17,245.000 666-6320 PREFAB PAV MRK TY C (W) (24") (SLD) 668-6076 LF 340.000 340.000 REFL PAV MRKR TY I-C ΕA 144.000 144.000 672-6007 REFL PAV MRKR TY II-A-A ΕA 112.000 672-6009 112.000 3077-6033 SP MIXES SP-C SAC-A PG76-22 TON 1,757.000 1,757.000 3079**-**6007 PFC-C (PG76 MIX) SAC-A TON 816.000 816.000 GAL 13,660.000 3084-6001 BONDING COURSE 13,660.000 6185-6002 TMA (STATIONARY) DAY 39.000 39.000 DAY 5.000 6185-6005 TMA (MOBILE OPERATION) 5.000

CONTROLLING PROJECT ID 6466-35-001



DISTRICT	COUNTY	CCSJ	SHEET
Lufkin	San Jacinto	6466-35-001	5

											IT	EM NO.	354 6176	3079 6007	3084 6001	CONTRACTOR INFORMATION
			7	SIDE,	LIM	IITS	R	v		ROADWA	Y DIMENS	IONS	1 2 MILL	1 2	INLAY	ONLY
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2 US 5	59 017	6 04	SB	OUTSIDE	800' N of FM 1987S	Ragaeshia Ln	410 + 1.550	412 + 0.200	2,500	0.474	2	12	3, 333	240	1,667	1
3 US S	59 017	6 04	SB	INSIDE	FM 1987	500′S of Ragaeshia Ln	410 + 1.700	412 + 0,270	3,000	0.568	2	12	4,000	288	2,000	1
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LOCATION NUMBER HIGHWAY	NO.	SECTION	DIRECTION	LANE (INSIDE, OUTSIDE BOTH/ALL)	FROM	то	FROM	то	LE! FT	NGTH	ESTD MILL DEPTH IN	AVG. SURF WIDTH FT	PLANE ASP CONC PAV (1 1/2" TO 2 1/2") SY	SUPERPAVE MIXTURE SP-C SAC-A PG76-22 (@ 220	3 Gal	NO. OF TRAFFIC CONTROL
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LOCAT ION NUMBER	HI GHWAY NO.	CONTROL	SECTION	DIRECTION	LANE (INSIDE, OUTSIDE, BOTH/ALL)	FROM	то	FROM	то	LE	NGTH	ESTD MILL DEPTH	AVG. Surf Width	PLANE ASP CONC PAV (1 1/2" TO 2 1/2")	SUPERPAVE MIXTURE SP-C SAC-A PG76-22 (@ 220 LB/SY)	3 BONDING COURSE (0.05 GAL/SY)	APPROXIMATE NO. OF TRAFFIC CONTROL SETUPS	
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7	US 69	0200	01	NB	вотн	CHANGE OF PAVEMENT	CHANGE OF PAVEMENT	422 - 1.346	422 - 1.253	495	0.094	2	48	2,640	290	1,320	1	
8	US 69	2553	01	SB	OUTSIDE	END OF CONCRETE	2250' S	416 + 0.221	416 + 0.642	2,250	0.426	2	12	3,000	330	1,500	1	
9	US 69	2553	01	NB	OUTSIDE	US 69 ENTRANCE RAI	0.332 MILES FROM US 69 ENTRANCE RAMP	418+ 0.558	418* 0.890	2, 380	0.451	2	12	3, 174	349	1,587	1	
											ANGEL I	NA COUNTY	SUBTOTAL	9, 454	1,039	4, 727	4	
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LOCATION NUMBER 6-9 ANGELINA COUNTY ITEM NO.	SUBTOTAL	WK ZN PAV MRK REMOV (W)6" (SLD) LF 928 928	WK ZN PAV MRK REMOV (Y)6"(SLD) LF 1,855 1,855	<b>W (6") BRK</b> LF 960	PM W/RET REQ T (090MIL) W (6") SLD LF	Y (6")SLD	PREFAB PVMT MRK TY C (W) (24") (SLD)	-			
NUMBÉR 6-9 ANGELINA COUNTY	SUBTOTAL	(W) 6" (SLD) LF 928	(Y)6"(SLD) LF 1,855	LF 960	LF		TY C (W) (24")(SLD)				
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ANGELINA COUNTY	1					LF	LF				
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ITEM NO.		K COUNTY SU	IMMARY OF PAV	EMENT MARKI	NGS AND MARK	ERS	·	]			
		662 6067	666 6305	666 6308	666 6320	672 6007	672 6009	-			
		WK ZN PAV MRK	RE	PM W/RET REQ T (090MIL)	ΥI		REFL PAV	-			
LOCATION NUMBER	N	REMOV (W)6"(SLD)	W (6") BRK	W (6") SLD	Y (6")SLD	MRKR TY I-C	MRKR TY II-A-A				
		LF	LF	LF	LF	EA	EA				
1, 2, 3		956	2,130	7,000	3,000	80	80				
POLK COUNTY SU	UBTOTAL	956	2,130	7,000	3,000	80	80				
			SAN JACINT	O COUNTY SUN	MARY OF PAVE	MENT MARKIN	GS AND MARKE	RS			]
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		WK ZN PAV MRK REMOV	WK ZN PAV MRK REMOV		RE PM W/RE (090	T REQ TY I MIL)		PREFAB PVMT MRK	REFL PAV MRKR	REFL PAV MRKR	
LOCATION NUMBER	(W) 6" (SLD)	(Y)6"(SLD)	W (6") BRK	W (6") SLD	Y (6")BRK	Y (6")SLD	TY C (W) (24")(SLD)	TY I-C	TY II-A-A		
		LF	LF	LF	LF	LF	LF	LF	EA	EA	
4			141	0	0	310	0	0	0	32	]
5		509	0	1,130	4,522	0	0	0	144	0	-
AN JACINTO COUNT	TY SUBTOTAL	509	141	1,130	4,522	310	0	0	144	32	
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#### BARRICADE AND CONSTRUCTION (BC) STANDARD SHEETS GENERAL NOTES:

- 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" (TMUTCD).
- 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.
- 4. 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.
- 5. 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 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.
- 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.
- 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 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 or near the CSJ limits. For mobile operations, CSJ limit signs are not required.
- 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:

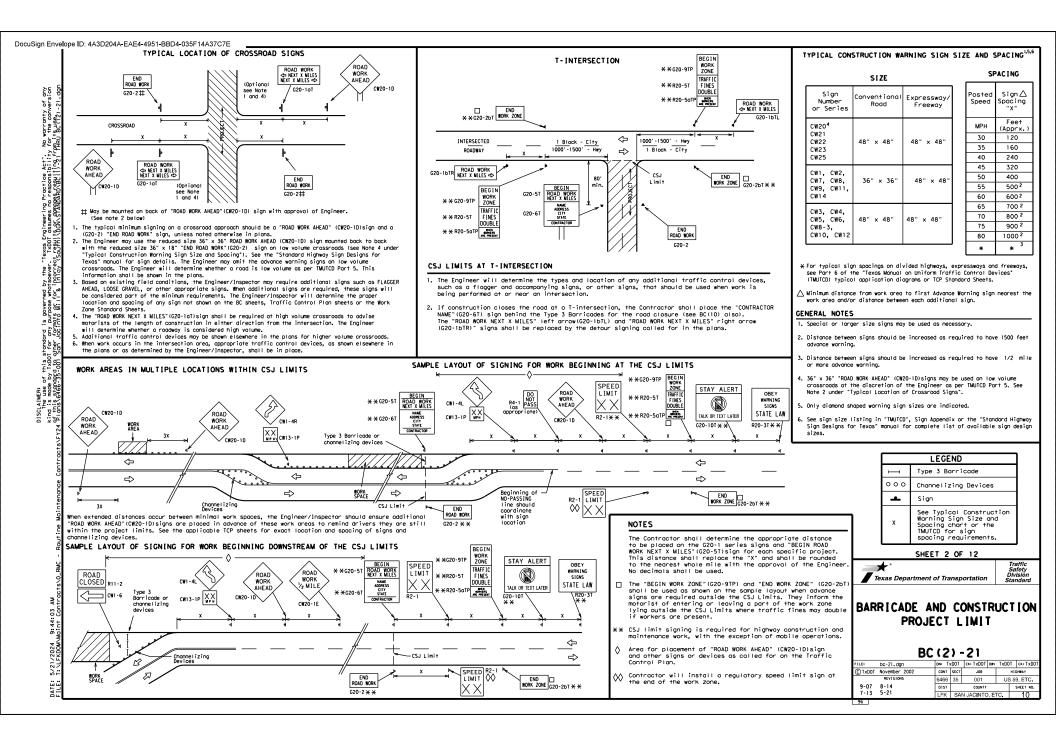
- Workers on foot who are exposed to traffic or to construction equipment within the right-of-way shall wear high-visibility safety apparel meeting the requirements of ISEA "American National Standard for High-Visibility Apparel," or equivalent revisions, and labeled as ANSI 107-2004 standard performance 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.

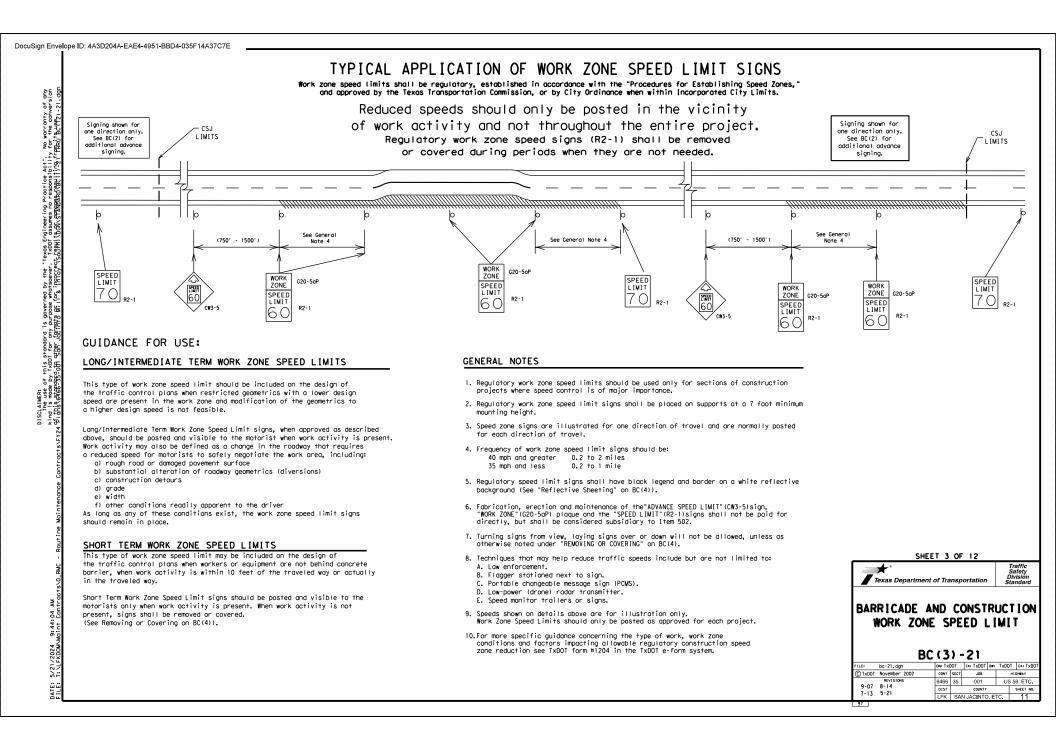
# COMPLIANT WORKZONE TRAFFIC CONTROL DEVICES

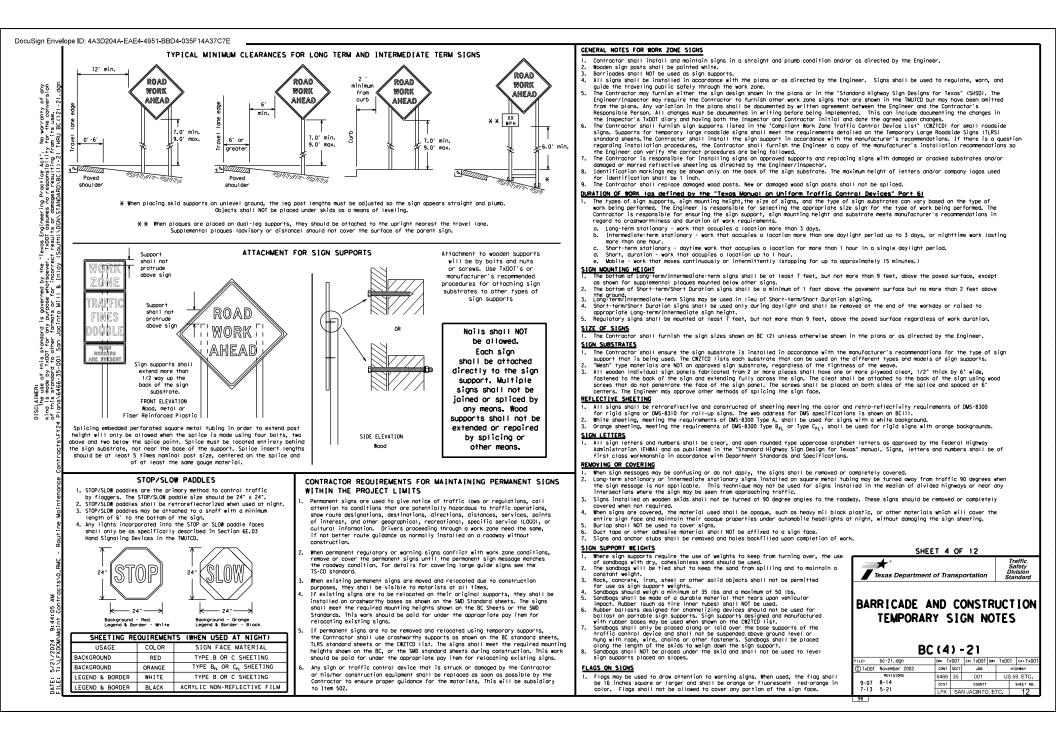
- Only pre-qualified products shall be used. The "Compliant Work Zone Traffic Control Devices List" (CWZTCD) describes pre-qualified products and their sources.
- Work zone traffic control devices shall be compliant with the Manual for Assessing safety Hardware (MASH).

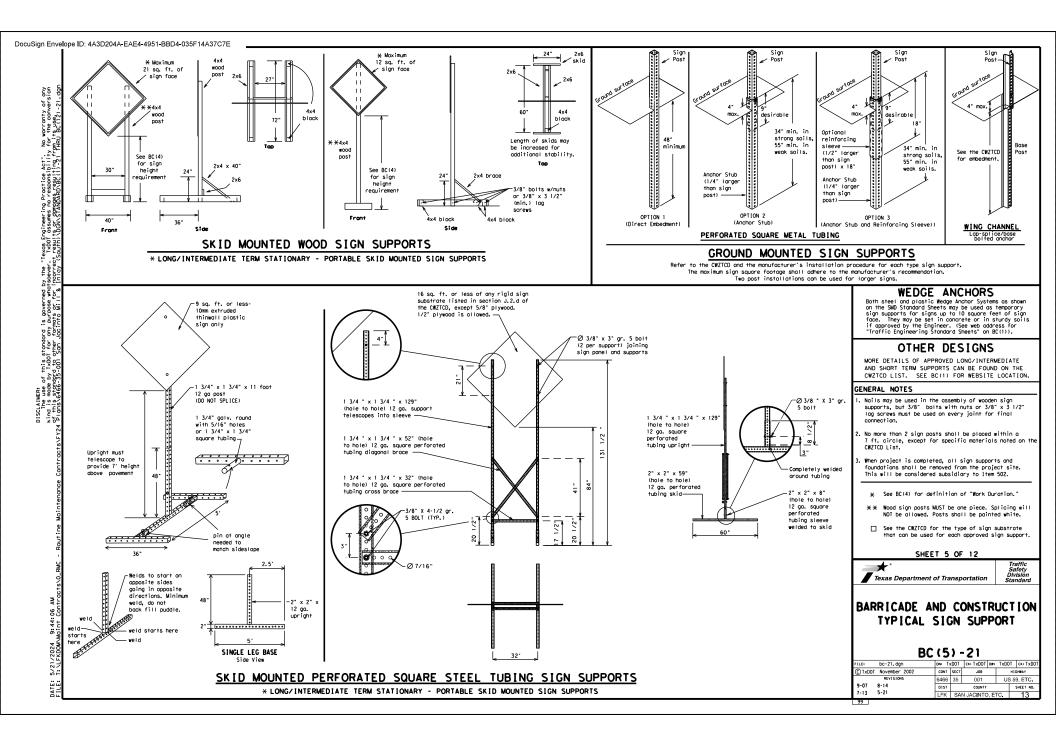
I	THE DOCUMENTS BELOW CAN BE FOUND ON-LINE AT http://www.txdot.gov
COMPL I	ANT WORK ZONE TRAFFIC CONTROL DEVICES LIST (CWZTCD)
DEPART	MENTAL MATERIAL SPECIFICATIONS (DMS)
MATERI	AL PRODUCER LIST (MPL)
ROADWA	Y DESIGN MANUAL - SEE "MANUALS (ONLINE MANUALS)"
STANDA	RD HIGHWAY SIGN DESIGNS FOR TEXAS (SHSD)
TEXAS	MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (TMUTCD)
TRAFFI	C ENGINEERING STANDARD SHEETS

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BARRICADE AND CONSTRUCTION GENERAL NOTES AND REQUIREMENTS BC(1)-21										
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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

## 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 2. eight characters per word), not including simple words such as "TO," "FOR, " "AT, " etc.
- 3. 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. Alwoys 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 above 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 avail-
- able 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.
- 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 should be legible from at least 600 feet at hight and 800 feet in doylight. Truck mounted units must have a character height of 10 inches and must be legible from at least 600 feet.
- 16. Each line of text should be centered on the message board rather than left or right justified. 17. If disabled, the PCMS should default to an illegible display that will
- not alarm motorists and will anly be used to alert workers that the PCMS has malfunctioned. A pattern such as a series of horizontal solid bars is appropriate.

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	PKING
CROSSING	XING	Rood	RD
Detour Route	DETOUR RTE	Right Lane	RTLN
Do Not	DONT	Saturday	SAT
East	F	Service Road	SERV RD
Eastbound	(route) E	Shoulder	SHLDR
Emergency	EMER	Slippery	SLIP
Emergency Vehicle		South	S
Entrance, Enter	ENT	Southbound	(route) S
Express Lane	EXP LN	Speed	SPD
Express Lune	EXPWY	Street	ST
XXXX Feet	XXXX FT	Sunday	SUN
Fog Ahead	FOG AHD	Telephone	PHONE
Freeway	FRWY. FWY	Temporary	TEMP
Freeway Blocked	FWY BLKD	Thursday	THURS
Friday	FRI DLKU	To Downtown	TO DWNTN
Hazardous Drivina		Troffic	TRAF
		Trovelers	TRVLRS
Hazardous Material High-Occupancy		Tuesday	TUES
Vehicle	HOV	Time Minutes	TIME MIN
Highway	HWY	Upper Level	UPR LEVEL
Highway Hour (s)	HR. HRS	Vehicles (s)	VEH, VEHS
Information	INFO	Worning	WARN
Intormation It Is		Wednesday	WED
Junction	JCT	Weight Limit	WTLIMIT
Left	LFT	West	W
Lett Left Lane		Westbound	(route) W
	LFT LN	Wet Pavement	WET PVMT
Lane Closed	LN CLOSED	Will Not	WONT
Lower Level	LWR LEVEL		
Maintenance	MAINT	1	

# RECOMMENDED PHASES AND FORMATS FOR PCMS MESSAGES DURING ROADWORK ACTIVITIES

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

# Phase 2: Possible Component Lists

Road/Lane/Ram	p Closure List	Other Cond	ition List	AC+
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	
ROAD CLSD AT FM XXXX	RIGHT LN CLOSED XXX FT	RIGHT LN NARROWS XXXX FT	TWO-WAY TRAFFIC XX MILE	
RIGHT X LANES CLOSED	RIGHT X LANES OPEN	MERGING TRAFFIC XXXX FT	CONST TRAFFIC XXX FT	
CENTER LANE CLOSED	DAYTIME LANE CLOSURES	LOOSE GRAVEL XXXX FT	UNEVEN LANES XXXX FT	
NIGHT LANE CLOSURES	I-XX SOUTH EXIT CLOSED	DETOUR X MILE	ROUGH ROAD XXXX FT	
VARIOUS LANES CLOSED	EXIT XXX CLOSED X MILE	ROADWORK PAST SH XXXX	ROADWORK NEXT FRI-SUN	
EXIT CLOSED	RIGHT LN TO BE CLOSED	BUMP XXXX FT	US XXX EXIT X MILES	
MALL DRIVEWAY CLOSED	X LANES CLOSED TUE - FRI	TRAFFIC SIGNAL XXXX FT	LANES SHIFT	)*
XXXXXXXX BLVD CLOSED	¥ LANES SHIFT in Ph	ase 1 must be used with	STAY IN LANE in	Phase 2.

Phase 1: Condition Lists

A		e/E Li:	ffect on Trav st	el	Location List		Warning List
	MERGE RIGHT		FORM X LINES RIGHT		AT FM XXXX		SPEED LIMIT XX MPH
	DETOUR NEXT X EXITS		USE XXXXX RD EXIT		BEFORE RAILROAD CROSSING		MAXIMUM SPEED XX MPH
	USE EXIT XXX		USE EXIT I-XX NORTH		NEXT X MILES		MINIMUM SPEED XX MPH
	STAY ON US XXX SOUTH		USE I-XX E TO I-XX N		PAST US XXX EXIT		ADVISORY SPEED XX MPH
	TRUCKS USE US XXX N	]	WATCH FOR TRUCKS		XXXXXXX TO XXXXXXX		R I GH T L ANE E X I T
	WATCH FOR TRUCKS		EXPECT DELAYS		US XXX TO FM XXXX		USE CAUTION
	EXPECT DELAYS		PREPARE TO STOP				DRIVE SAFELY
	REDUCE SPEED XXX FT		END SHOULDER USE				DRIVE WITH CARE
	USE OTHER ROUTES	]	WATCH FOR WORKERS				
2.	STAY IN LANE	*			;	¥¥See A	pplication Gui

# \* \* Advance Notice List TUE-FRI XX AM-X PM APR XX-ΧХ X PM-X AM BEGINS MONDAY BEGINS MAY XX MAY X-X XX PM -XX AM NEXT FRI-SUN XX AM то XX PM NEXT TUE AUG XX TONIGHT

XX PM-

XX AM

ation Guidelines Note 6.

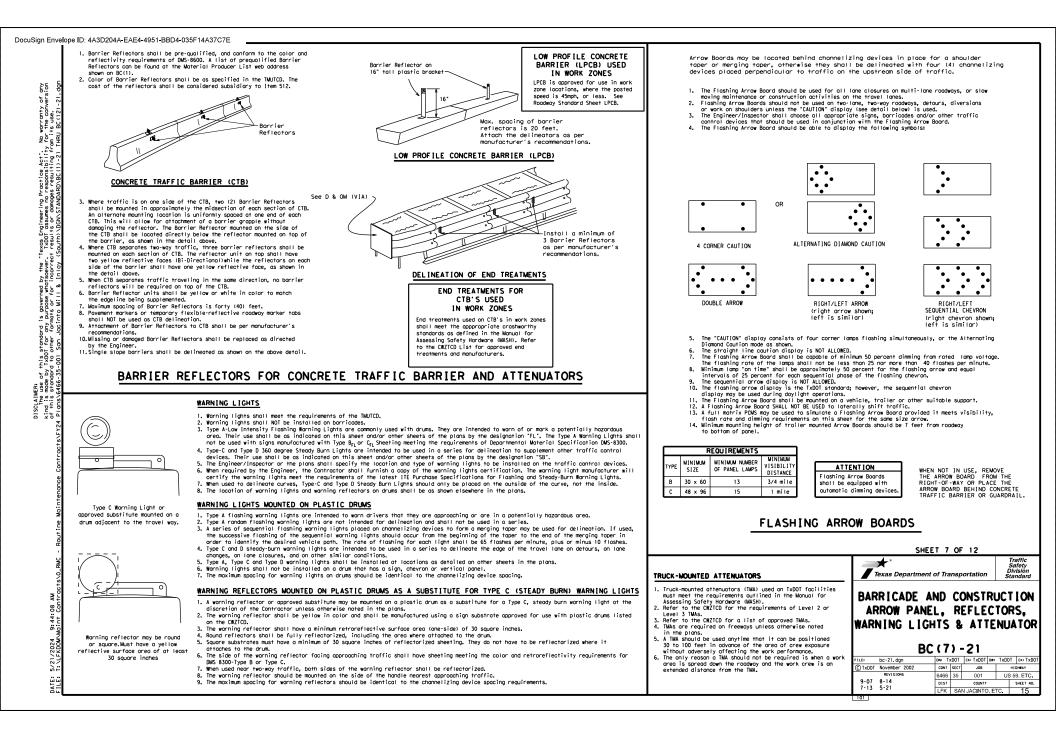
#### APPLICATION GUIDELINES

- 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/Ramp 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. 6. 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.
- BAST, 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.

ie –	EAF LN	Street	ST	no more than one week prior to the work.			
	EXPWY XXXX FT	Sunday	SUN		SHEE	T 6 OF 12	
	FOG AHD	Telephone Temporary	PHONE TEMP		<b></b> *		Traffic
cked	FRWY, FWY FWY BLKD	Thur sday	THURS	PCMS SIGNS WITHIN THE R.O.W. SHALL BE BEHIND GUARDRAIL OR			Traffic Safety Division
скео	FRI	To Downtown Traffic	TO DWINTN TRAF	CONCRETE BARRIER OR SHALL HAVE A MINIMUM OF FOUR (4)	Texas Department of Transportation	Standard	
	HAZ DRIVING	Trovelers	TRVLRS	PLASTIC DRUMS PLACED PERPENDICULAR TO TRAFFIC ON THE			
	HAZMAT HOV	Tuesday	TUES TIME MIN	UPSTREAM SIDE OF THE PCMS, WHEN EXPOSED TO ONE DIRECTION	BARRICADE A	ND CONSTRU	
		Time Minutes Upper Level		OF TRAFFIC. WHEN EXPOSED TO TWO WAY TRAFFIC, THE FOUR DRUMS			
		Vehicles (s)	VEH, VEHS	SHOULD BE PLACED WITH ONE DRUM AT EACH OF THE FOUR CORNERS OF THE UNIT.	PORTABLE	CHANGEAB	.E
1	INFO	Warning Wednesday	WARN WED	FULL MATRIX PCMS SIGNS	MESSAGE	SIGN (PCM	si l
	JCT	Weight Limit	WTLIMIT	To the full Matrix PORS sions are used, the character height and legibility/visibility requirements shall be maintained as listed in Note 15 under "PORIABLE		31011 11 014	<i></i>
	LFT	West Westbound	(route) W	CHANGEABLE MESSAGE SIGNS die used, me und deter nergin und regionnity visionnity requirements such de monitorned os risted in whe is under Portable CHANGEABLE MESSAGE SIGNS		(6) - 21	
	LFT LN LN CLOSED	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			
<u> </u>	LWR LEVEL	Will Not	WONT	shall maintain the legibility/visibility requirement listed above. 3. When symbol signs are represented araphically on the Full Matrix POKs, they shall only supplement the use of the static sign represented, and shall not substitute	FILE: bc-21.dgn	DN: TXDOT CK: TXDOT DW: CONT SECT JOB	TXDOT CK: TXDOT HIGHWAY
)	MAINT			for, or replace that sign.	© TxDOT November 2002 REVISIONS		
	,			for, or replace that sign. 4. A full matrix PCWS may be used to simulate a flashing arrow board provided it meets the visibility, flash rate and dimming requirements on BC(7), for the	REVISIONS 9-07 8-14	6466 35 001 DIST COUNTY	US 59, ETC.
	,	r, SH-number, FM-	number	for, or replace that sign.	REVISIONS	6466 35 001	US 59, ETC. SHEET NO.



#### GENERAL NOTES

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- 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
- 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 idth
- 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  $\sim \circ \cdots \circ v^{po}$  used on u ums smail be constructed of sheeting meeting the color and retroreflectivity requirements of Deportmental Materials Specification DMS-8300, "Sign Face Materials," Type A or Type B reflective sheeting shall be supplied unless otherwise specified 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 lass 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 sandbags will be allowed, however height of sandbags 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 the sidewalls may be used for ballast on drums approved for this type of ballast on the CWZTCD list. 3 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.
- Ballast shall not be placed on top of drums.
- Adhesives may be used to secure base of drums to pavement.

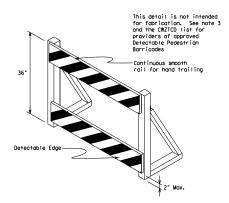
Each drum shall have 1 a minimum of 2 orange and 2 white stripes using Type A or Type B retroreflective sheeting with the top stripe being (typ.) orange. Toper to allow for stacking a See Ballast minimum of 5 drums Note 3

9/16" dia. (typ)

for mounting

worning Lights

signs and



#### DETECTABLE PEDESTRIAN BARRICADES

18" min

Handle -

Top should not

of water or

4" min

8" mox

(†yp)-

2" max

debris

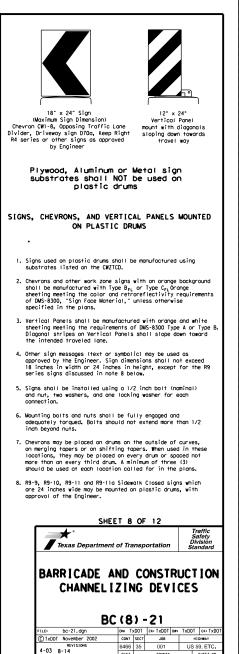
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12 22

allow collection

4" mox

- 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 horricodes.
- 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 6. splinters, burrs, or sharp edges.



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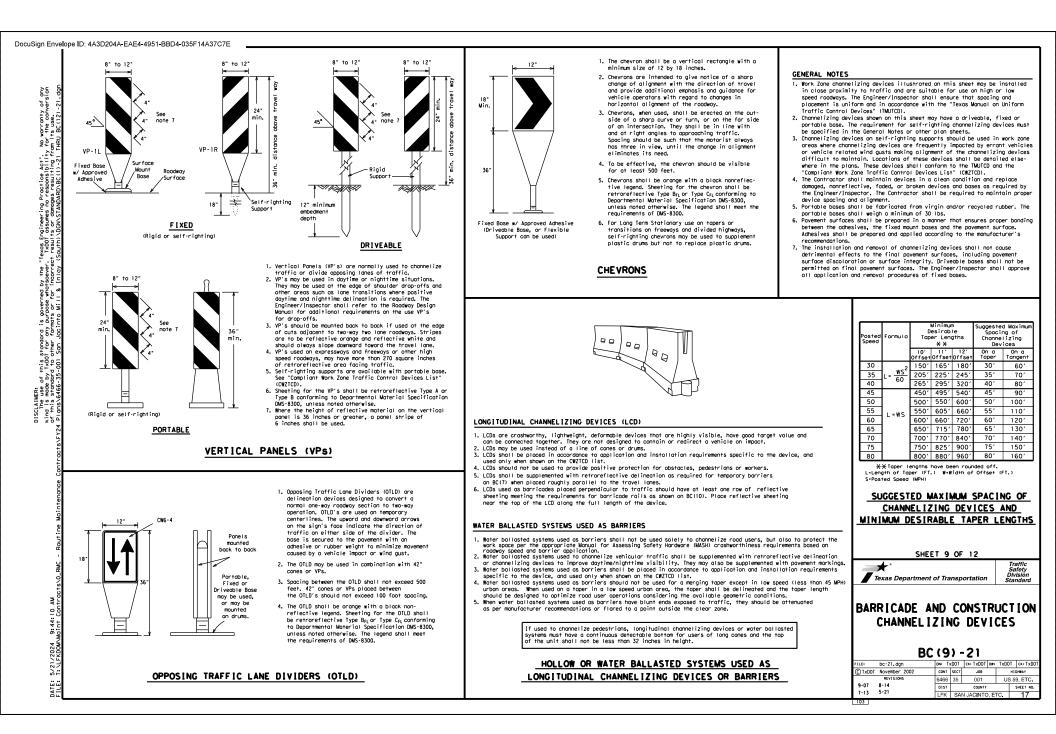
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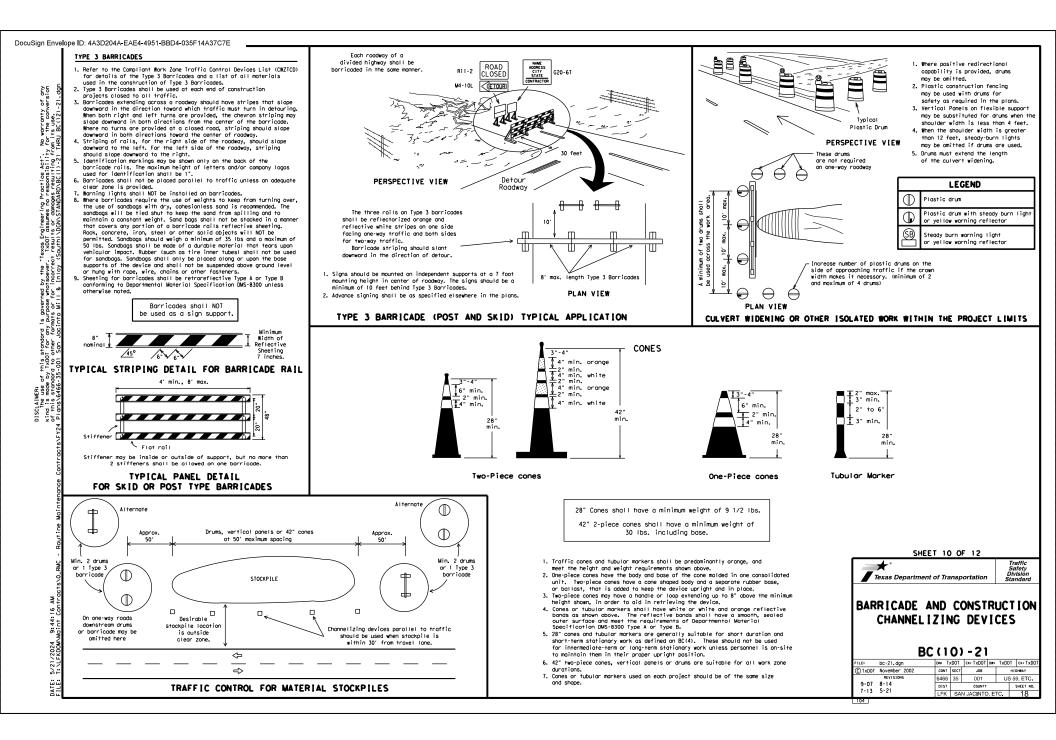
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warranty of a the conversion ts use.

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Texas Engineering Practice Act". TxD0T assumes no responsibility tresults or domages regulting fry fcontbilton(Eun CTANDADNEC(1)-201

of this standard is governed by the "Te by TxDOT for any purpose whatsoever. Ward to other formats or for incorrect -35-DOT San Jacinto Mill & Talov (S)

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

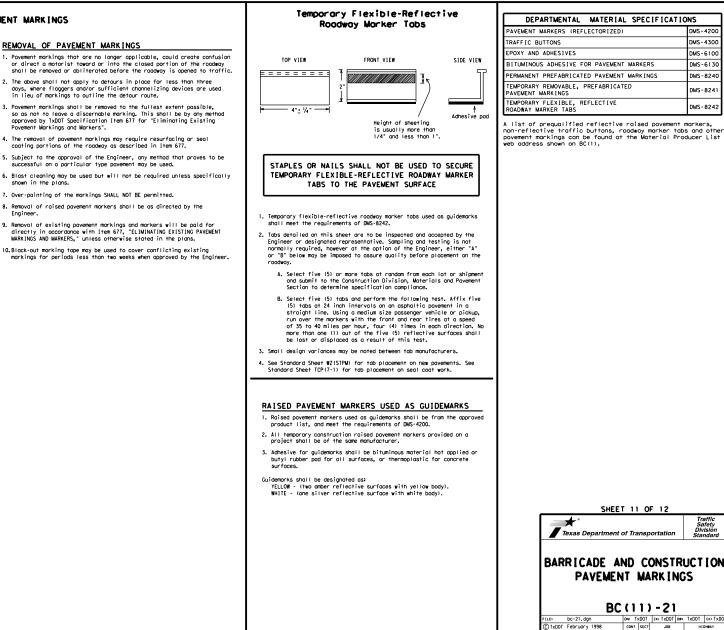
#### MAINTAINING WORK ZONE PAVEMENT MARKINGS

- 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 roodway 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 Pavement 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

REMOVAL OF PAVEMENT MARKINGS

markings for periods less than two weeks when approved by the Engineer.



DMS-4200

DMS-430

DMS-6100

DMS-6130

DMS-8240

DMS-824

DMS-8242

Traffic Safety Division Standard

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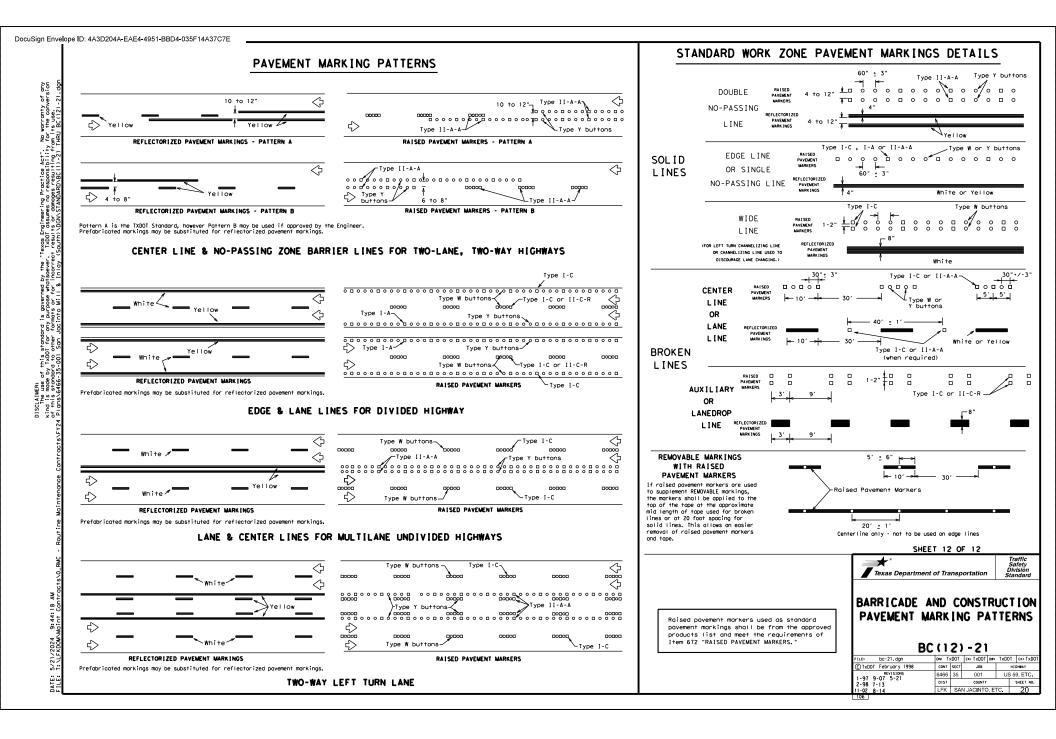
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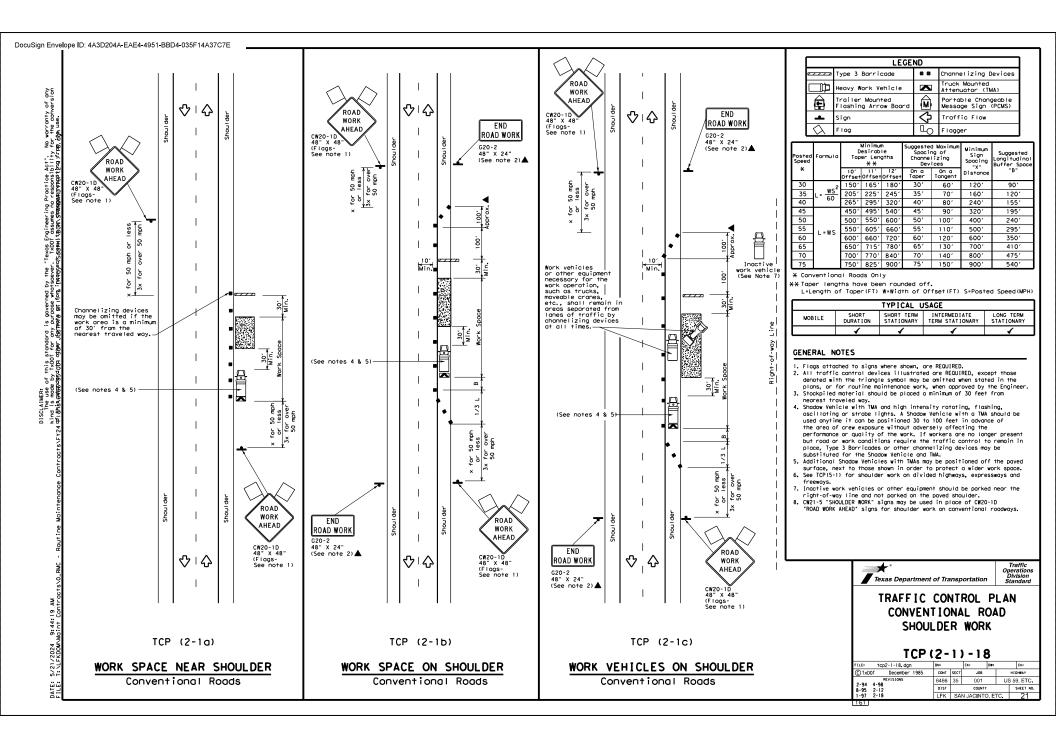
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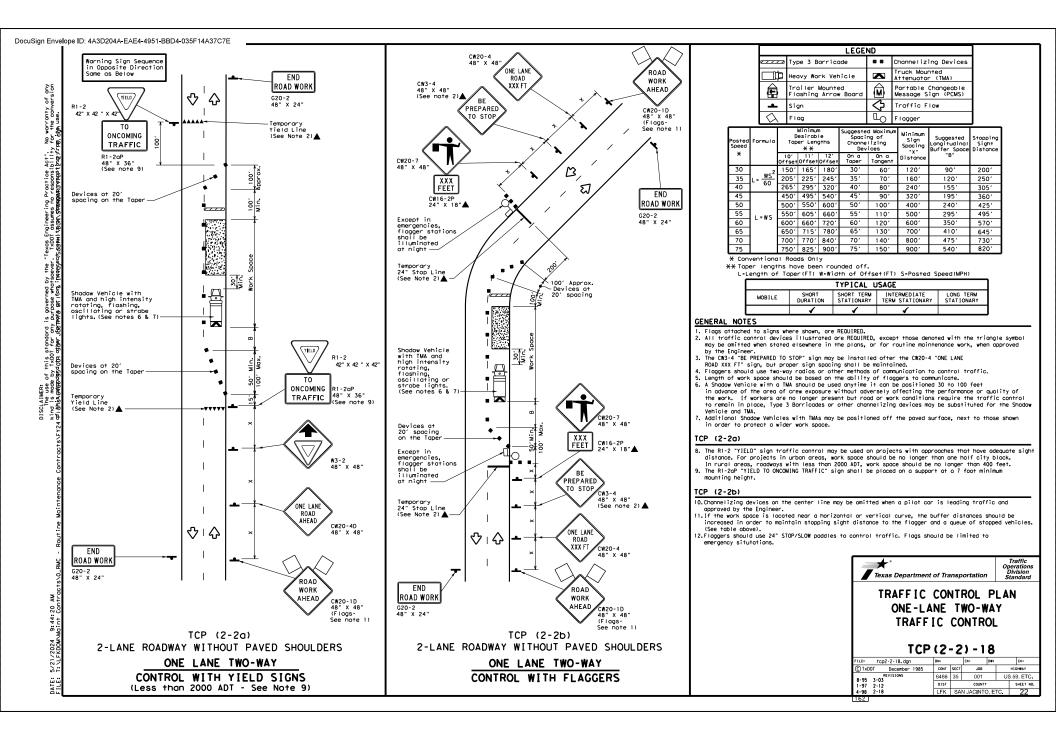
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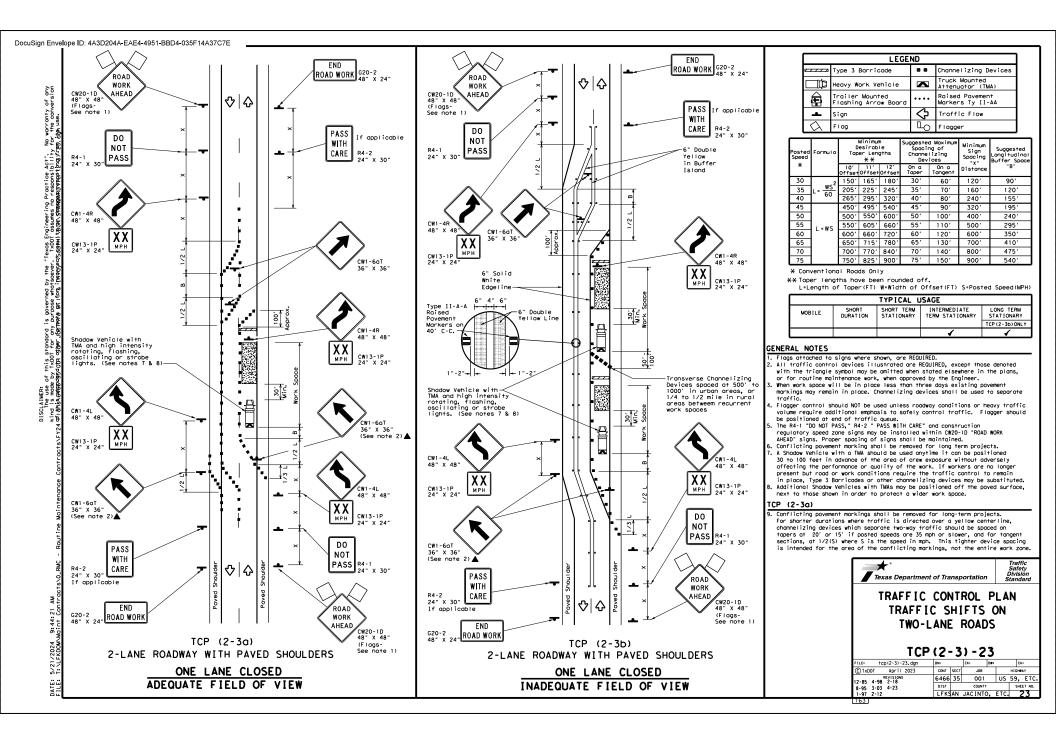
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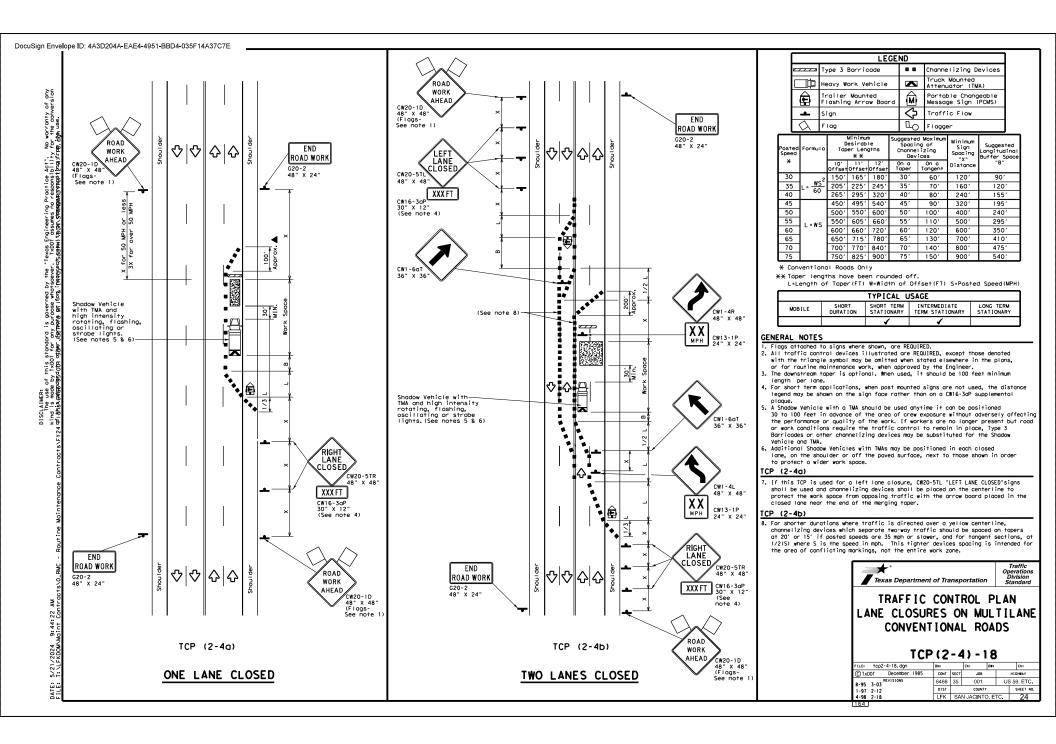
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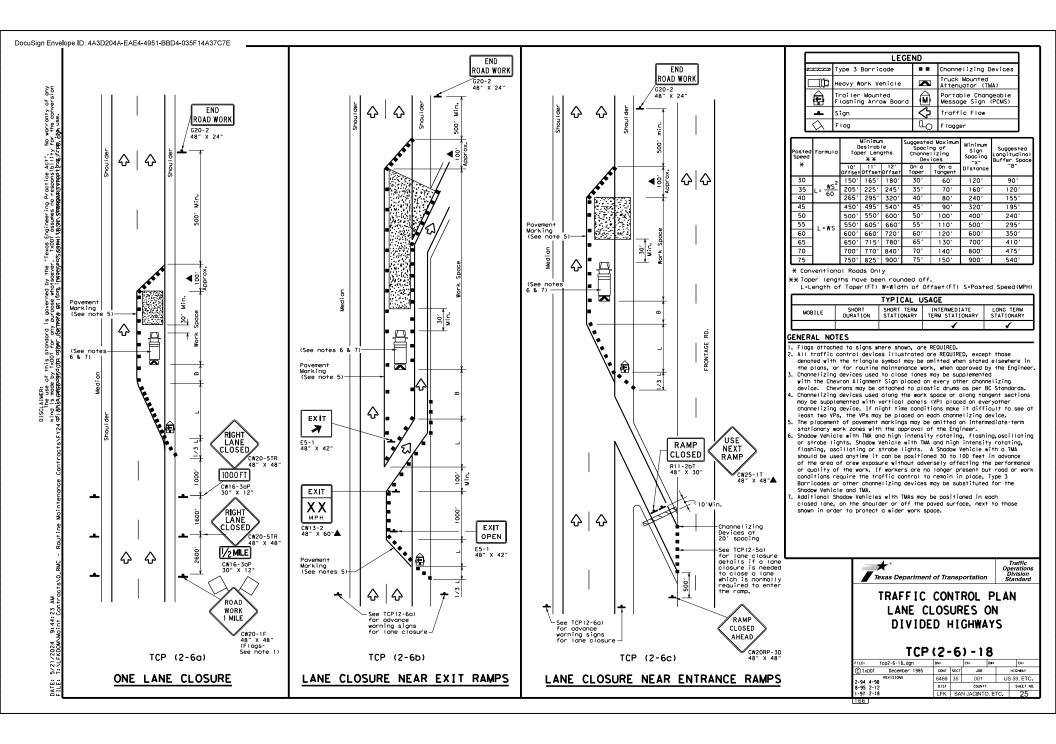


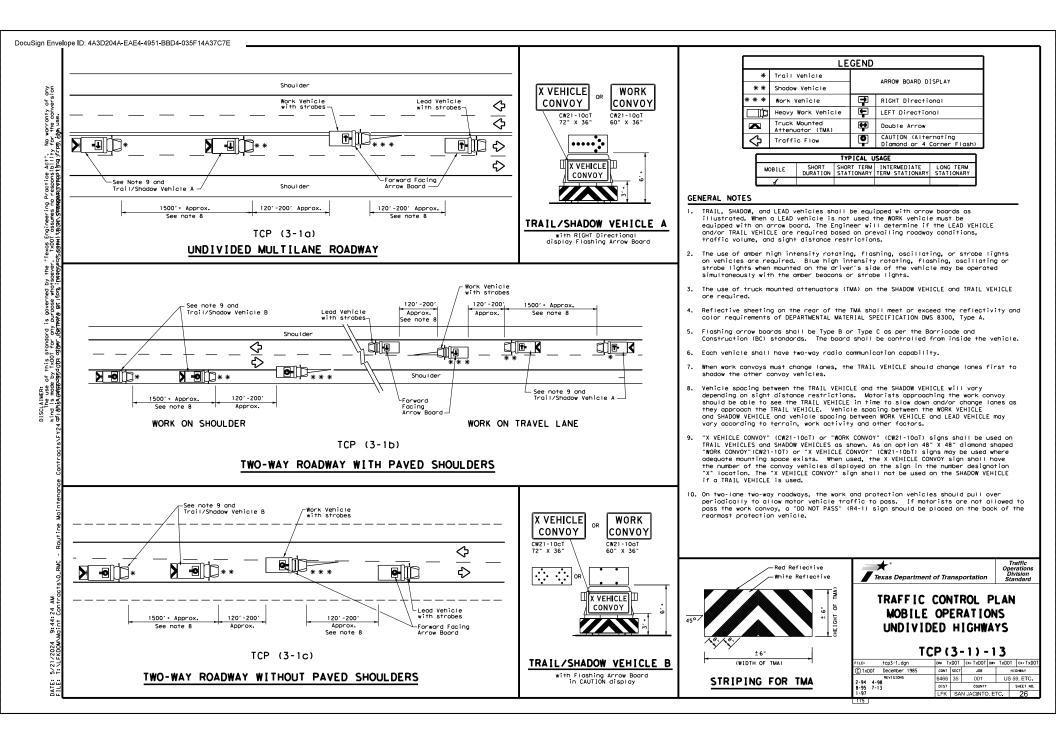


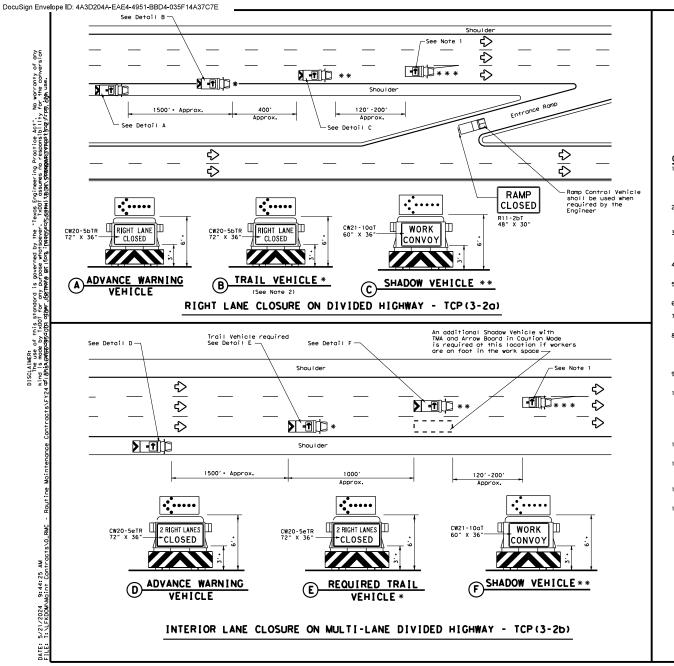




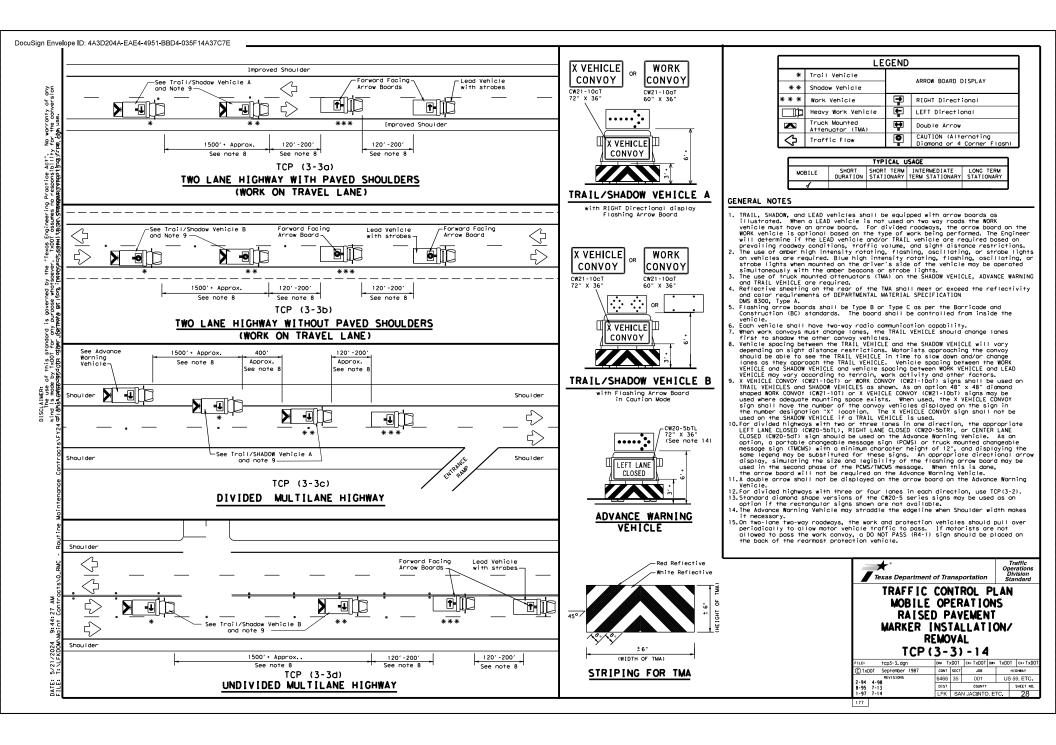


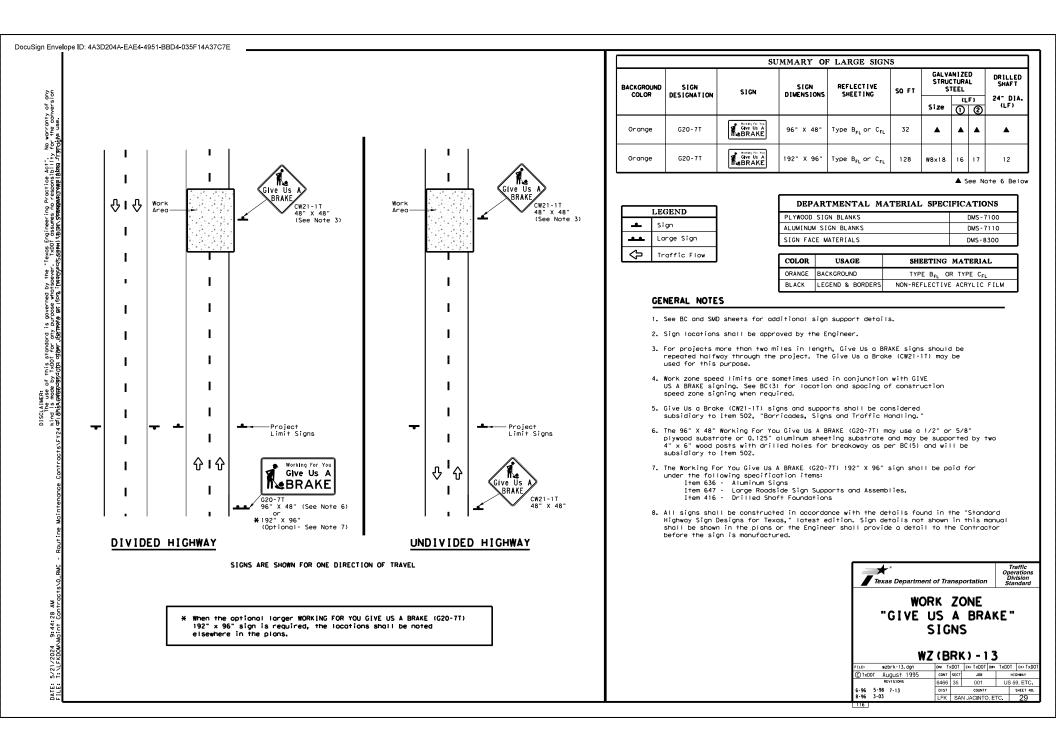


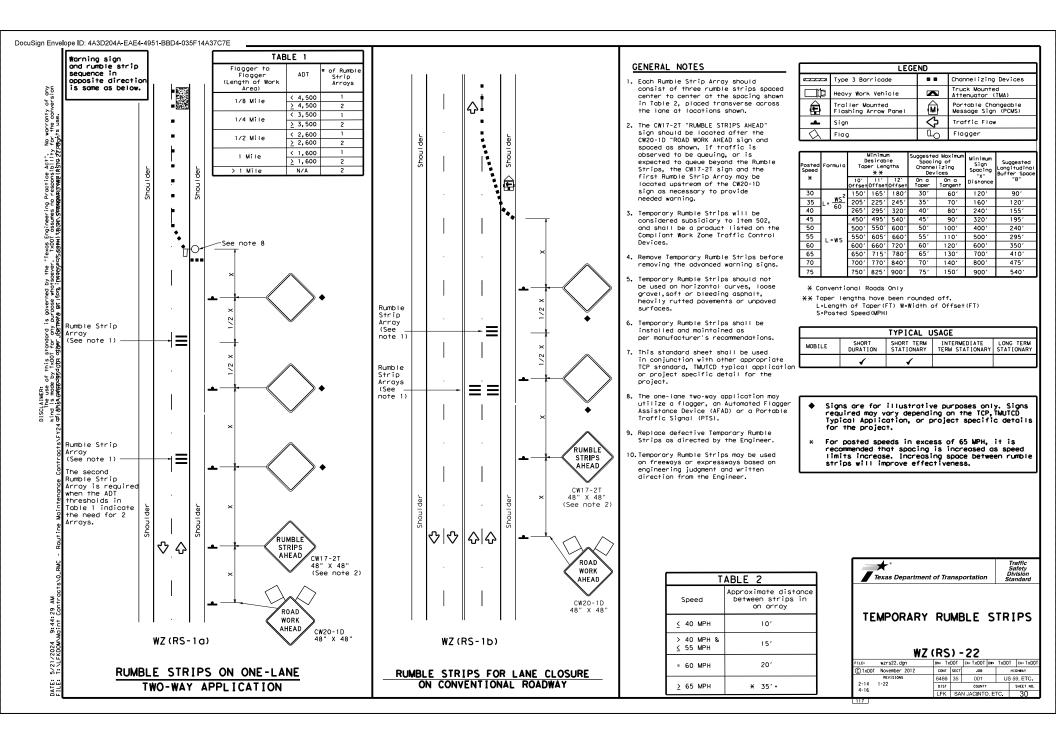


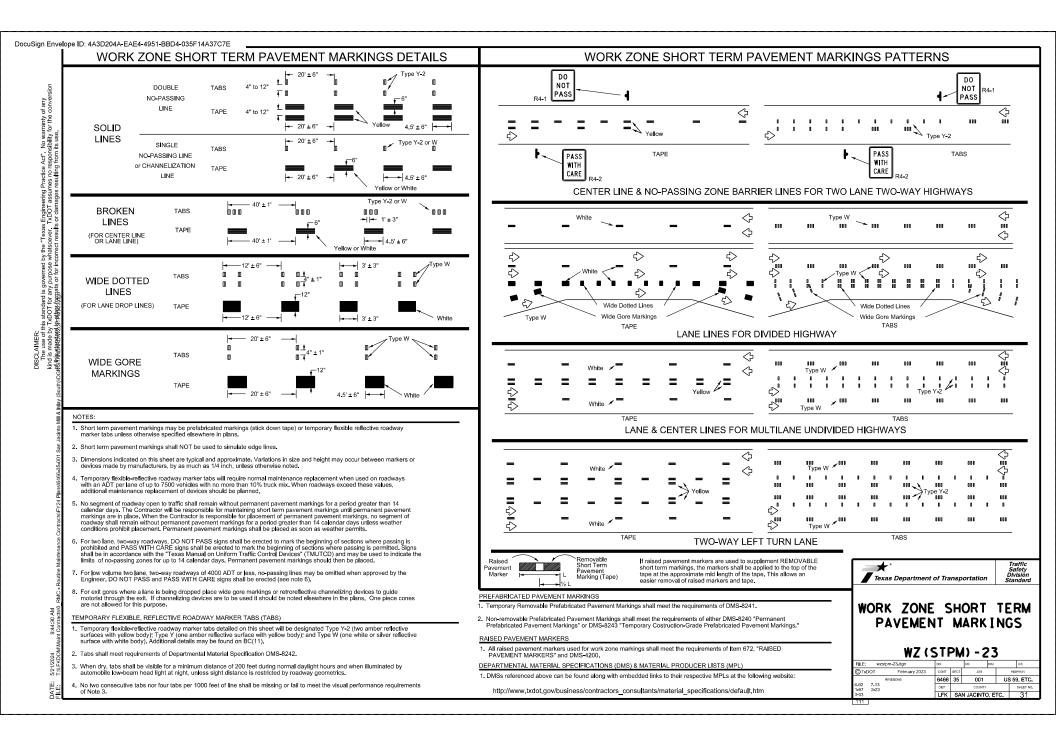


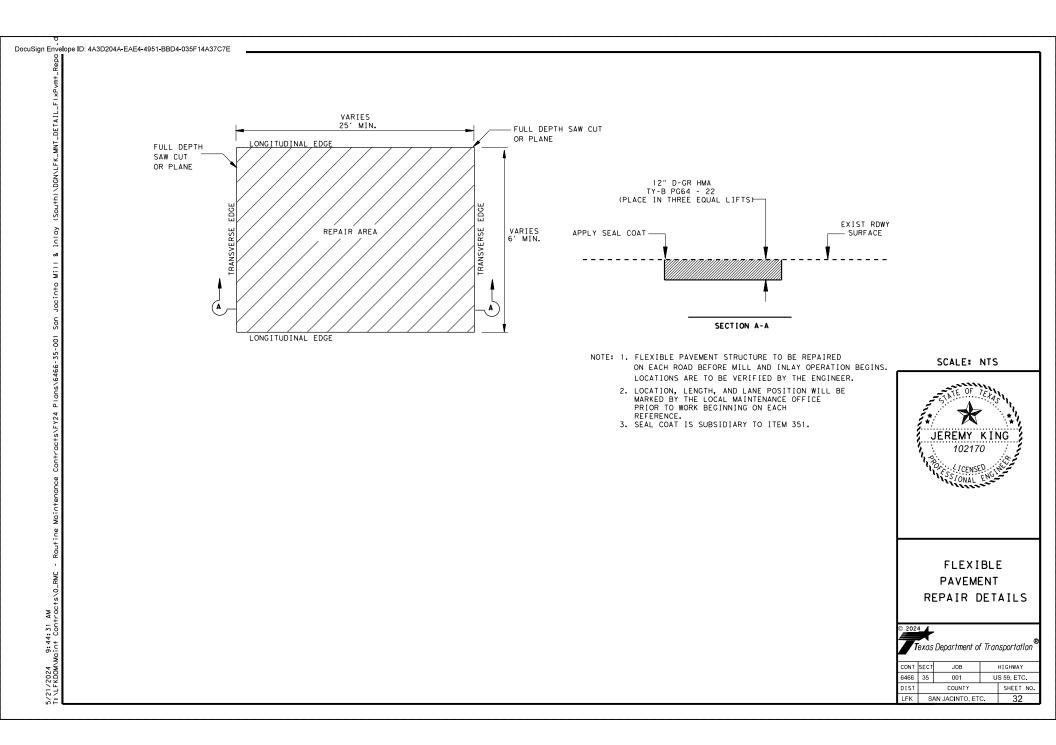
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	LEGEND						
		* *				ARROW BOARD DISPLAY	
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		⊐¢		Work Vehicle	Ť.	LEFT Directional	
				Mounted ator (TMA)	<b>₽</b>	Double Arrow	
		$\Diamond$	Traffi	c Flow	0	CAUTION (Alternating Diamond or 4 Corner Flash)	
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			1				
GEI	NERAL NOTES	5					
1.							
2.						TRAIL VEHICLE is required based on nd sight distance restrictions. All 3-2b) are required.	
3.	The use of an on vehicles of strobe lights simultaneous	nber hig are requ s when m ly with	h inten jired. Nounted the amb	sity rotating, Blue high inte on the driver' er beacons or	floshi nsity r s side strobe	ng, oscillating, or strobe lights otating, flashing, oscillating or of the vehicle may be operated lights.	
4.	SHADOW, and 1	TRAIL ve	hicles	are required.		e ADVANCE WARNING,	
5.						meet or exceed the reflectivity and	
6.						ion capability.	
7.	shadow the of	ther con	nvoy veh	icles.		EHICLE should change lanes first to	
8,	. Vehicle spacing between the TRAIL VEHICLE and the SHADOW VEHICLE will vary depending on sight distance restrictions. Motorists approaching the work convoy should be able to see the TRAIL VEHICLE in time to slow down and/or change lanes as they approach the TRAIL VEHICLE. Vehicle spacing between the WORK VEHICLE and SHADOW VEHICLE may vary according to terrain, work activity and other factors.						
9.	Standard 48" may be used w	x 48" d where ad	liamond lequate i	shaped warning mounting space	signs exists	with the same message as those shown •	
10.	The signs sho changeable me a minimum cha these signs, legibility of PCMS/TMCMS me Advance Warni	essage s aracter An ap f the fl essage.	sign (PC) height propria lashing When th	sed on the Adv WS) or a truck of 12", and di te directional arrow board, m his is done, t	ance Wa mounte splayir arrow hust be he arro	rning Vehicle. As an option, a portable d changeoble message sign (TMCNS) with g the same legend may be substituted for display, simulating the size and used in the second phase of the w board will not be required on the	
11.	Standard dian if the rectar	nond sha ngular s	ipe vers signs sh	ions of the CW own are not av	20-5 se ailable	ries signs may be used as an option •	
12.	. The principles on this sheet may be used to close lanes from the left side of the roadway considering the number of lanes, shoulder width, sight distance, and ramp frequency.						
13.	Signs and flo left lane clo	ashing a psures a	rrow bo r inter	ard modes shal ior closures w	I be ap hich cl	propriately altered when implementing ose the left lanes.	
14.	The Advance W necessary,	Narning	Vehicle	may straddle	-	eline when shoulder width mokes it	
				lective	Te	Traffic     Operations     Division     Standard	
			/-White R	eflective		. ,	
45	507			± 6 ±	1	RAFFIC CONTROL PLAN MOBILE OPERATIONS DIVIDED HIGHWAYS	
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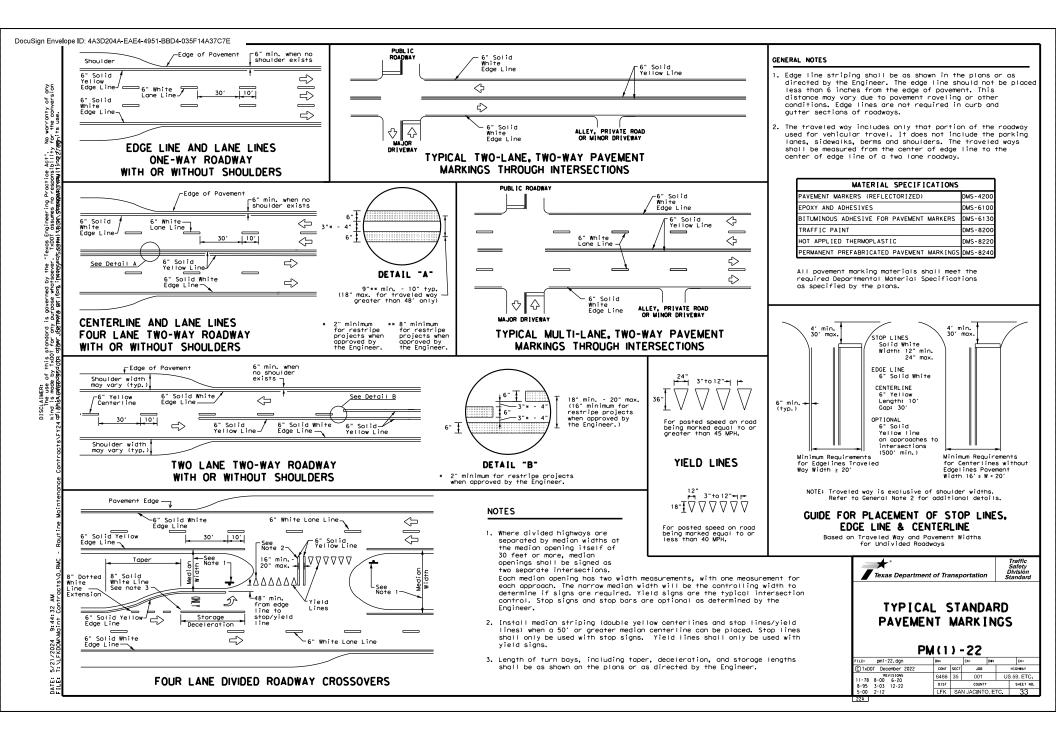


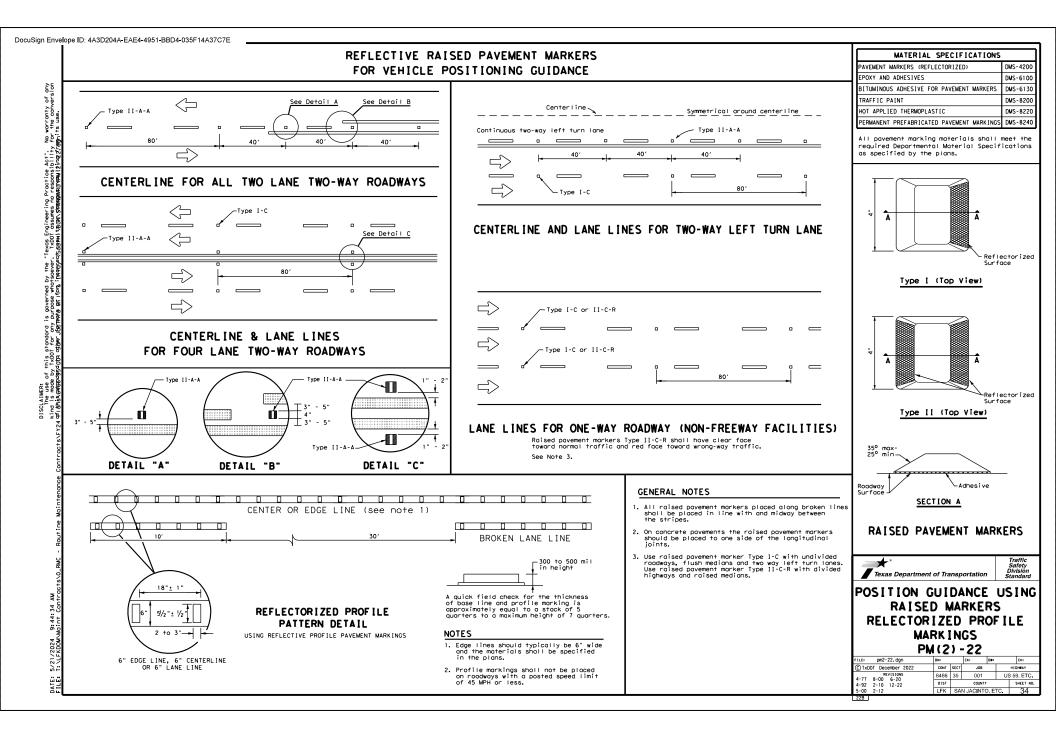


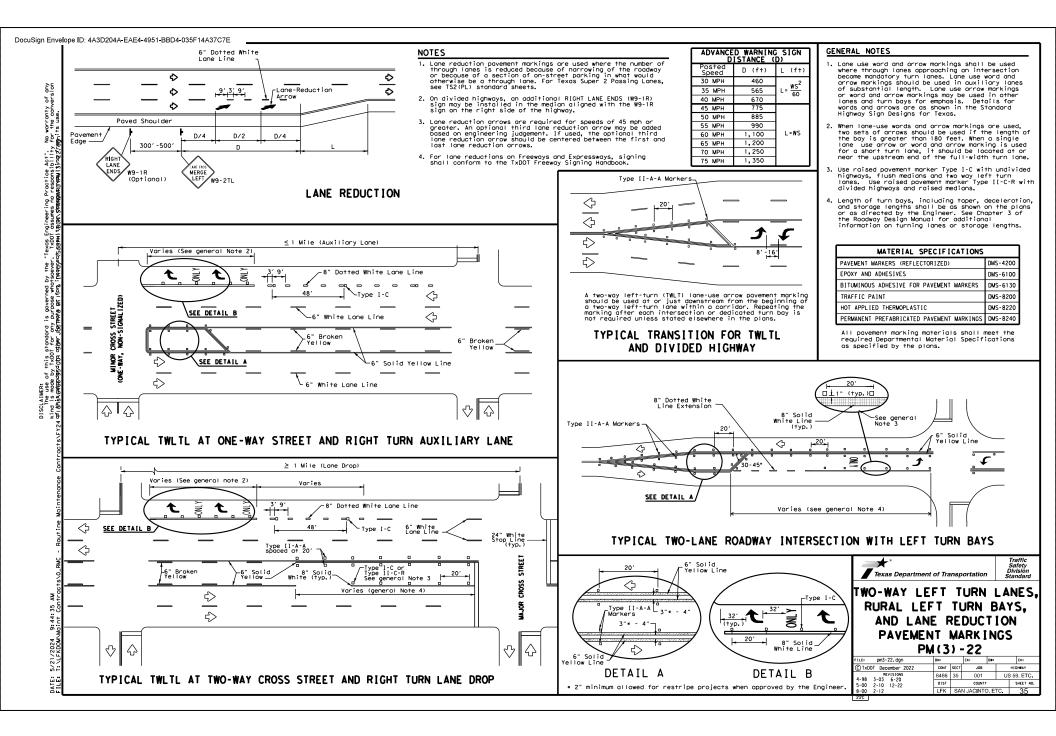


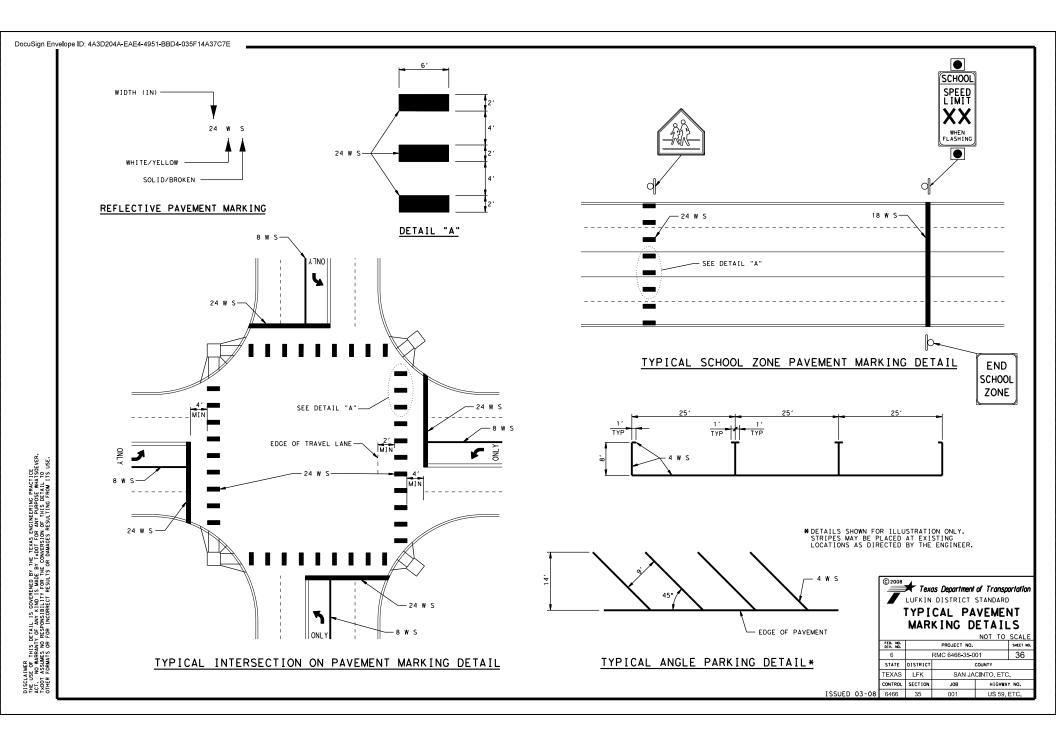












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-	ION PREVENTION-CLEAN WATER		III. CULTURAL RESOURCES		VI. HAZARDOUS MATERIALS OR CO	
G required for project	ormwater Discharge Permit or Cons s with 1 or more acres disturbed protect for erosion and sedimento that may receive discharges from	soil. Projects with any ation in accordance with	archeological artifacts ar archeological artifacts (b	ecifications in the event historical issues or e found during construction. Upon discovery of ones, burnt rock, flint, pottery, etc.) cease and contact the Engineer immediately.	hozordous materials by conducting s making workers aware of potential h	s): on Act (the Act) for personnel who will be working with safety meetings prior to beginning construction and nazards in the workplace. Ensure that all workers are quipment appropriate for any hazardaus materials used.
They may need to be	notified prior to construction ac		No Action Required	Required Action	Obtain and keep on-site Material S	afety Data Sheets (MSDS) for all hazardous products lude, but are not limited to the following categories:
w 5 ∓ no L No Action Requir	ed 🗌 Required Action		Action No.		compounds or additives. Provide pr	roducts, chemical additives, fuels and concrete curing rotected storage, off bare ground and covered, for laintain product labelling as required by the Act.
<ul> <li>Iocations shown in plan</li> <li>These activities maintee</li> <li>purpose of the structure</li> <li>maintenance activity a</li> </ul>	f this project consists of mill and na within the San Jacinto and Polk Co oin the ariginal line and grade, hydr res. Therefore, this project meets at s defined in the TPDES General Permit 's TPDES COP does not apply.	ounty Maintenance Sections. raulic capacity, and original ne definition of a routine	<ul> <li>pulloff or parking area la markers are present.</li> <li>Contractor to repair or historic materials damaged of executing work. Contrac source for historical mater TxDOT-Environmental Affair</li> </ul>	ockpiling of materials is not permitted in any belled as a historic marker, or where historic replace in kind, at their own expense, any (buildings, historical markers, etc) in the course for is responsible for locating replacement rials damaged in the course of the work. s Division is to be informed of proposed repairs with Texas Historical Commission prior to the	Maintain an adequate supply of on-s In the event of a soill, take action in accordance with softe work practi- immediately. The Contractor shall be of all product spills. Contact the Engineer if any of * Dead or distressed vegeta * Trash piles, drums, conis * Undesiroble smells or ado * Evidence of leaching or so	ite spiil response materials, as indicated in the MSDS, ns to mitigate the spill as indicated in the MSDS, ces, and contact the District Spill Coordinator e responsible for the proper containment and cleanup the following are detected: tion (not identified as normal) ter, barrels, etc. rs
(H480)						ctures not including box culverts)?
II. WORK IN OR NEAR	STREAMS, WATERBODIES AND 1 1 AND 404	WETLANDS CLEAN WATER	IV. VEGETATION RESOURCES		If "No", then no further action	n is required. ible for completing asbestos assessment/inspection.
	ed for filling, dredging, excavat s, creeks, streams, wetlands or we		Preserve native vegetation		Are the results of the asbestos	inspection positive (is asbestos present)?
The Contractor must	adhere to all of the terms and co		164, 192, 193, 506, 730, 7	Construction Specification Requirements Specs 162, 51, 752 in order to comply with requirements for al landscaping, and tree/brush removal commitments.	the notification, develop abater	in a DSHS licensed asbestos consultant to assist with ment/mitigation procedures, and perform management
No Permit Require	ed		No Action Required	Required Action	activities as necessary. The ne 15 working days prior to schedu	otification form to DSHS must be postmarked at least led demolition.
No Permit Require     Notionwide Permit     wetlands affecte     Nationwide Permit     wetlands affecte     D Nationwide Permit     D Individual 404 Pe     Other Nationwide	t 14 - PCN not Required (less tha d)	n 1/10th acre waters or	Action No. 1. N/A		If "No", then TxDOT is still req scheduled demolition.	quired to notify DSHS 15 working days prior to any
Nationwide Permi	t 14 - PCN Required (1/10 to <1/2 ermit Required	acre, 1/3 in tidal waters)			activities and/or demolition with	s responsible for providing the date(s) for abatement n careful coordination between the Engineer and ninimize construction delays and subsequent claims.
0 Other Nationwide	Permit Required: NWP#				Any other evidence indicating poss	sible hazardous materials or contamination discovered Contamination Issues Specific to this Project:
	st waters of the US permit applie gement Practices planned to contro				No Action Required	Required Action
Action No. 1. N/A				SED THREATENED, ENDANGERED SPECIES, TE LISTED SPECIES, CANDIDATE SPECIES	Action No. 1. N/A	
			AND MIGRATORT BIRDS.		VII. OTHER ENVIRONMENTAL ISSU	<u>u</u> ES
ĺ			No Action Required	Required Action	(include other regional issues	i.e. Edwards Acquifier)
			Action No. 1. N/A		No Action Required	Required Action
to be performed in t	ordinary high water marks of any he waters of the US requiring the on the Bridge Layouts.				Action No. 1. N/A	
Best Management P	ractices:					
Erosion	Sedimentation	Post-Construction TSS				
Temporary Vegetation	Silt Fence	Vegetative Filter Strips				Design Vision Standard
Blankets/Matting	🗌 Rock Berm 🗌 Triangular Filter Dike	Retention/Irrigation Systems Extended Detention Bosin				
	Sand Bag Berm	Constructed Wetlands			1	EPIC
5 🗌 Sodding 1 Interceptor Swale Diversion Dike	— Straw Bale Dike	Wet Basin	BMP: Best Management Practice	OF ABBREVIATIONS SPCC: Spill Prevention Control and Countermeasure		(ENVIRONMENTAL PERMITS,
	Brush Berms	Erosion Control Compost	CGP: Construction General Permit DSHS: Texas Department of State Health	SWP3: Storm Water Pollution Prevention Plan		ISSUES AND COMMITMENTS)
Erosion Control Compo Mulch Filter Berm and Compost Filter Berm a		Mulch Filter Berm and Socks	FHWA: Federal Highway Administration MOA: Memorandum of Agreement	PSL: Project Specific Location TCEO: Texas Cormission on Environmental Quality		
Muich Filter Berm and	I Socks 🔄 Mulch Filter Berm and Socks nd Socks 🗌 Compost Filter Berm and Soc		MOU: Memorandum of Understanding MS4: Municipal Separate Stormwater Se	TPDES: Texas Pollutant Discharge Elimination System	n	FILE: epic.dgn DN=TxDOT CK=RG DN=VP CK=AR
	Stone Outlet Sediment Trops		MBTA: Migratory Bird Treaty Act NOT: Notice of Termination	TXDT: Texas Department of Transportation T&E: Threatened and Endangered Species		© TxD0T: February 2015 cont sect Job Highman 12-13-2011 (05: 14000 MIS SECTION 14: 1400
5 ILE:	Sediment Basins	Grassy Swales	NWP: Nationwide Permit NOI: Notice of Intent	USACE: U.S. Army Corps of Engineers USFWS: U.S. Fish and Wildlife Service		0-22-2015 SECTION I CHARGE TEM 1122 TO TIME SAL ADDED NOTE SECTION I TO MARGE TEM 1122 TO TIME SAL ADDED NOTE SEALES
- L						IN THE SON, ADDED GRASSY SMALES.   LFK   SAN JACINIO, ETC. 37

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Holder: Spencer Branske

Pool: StateLocal

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

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Agent Delivery Events	Status	Timestamp
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Certified Delivery Events	Status	Timestamp
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Witness Events	Signature	Timestamp		
Notary Events	Signature	Timestamp		
Envelope Summary Events	Status	Timestamps		
Envelope Sent	Hashed/Encrypted	6/4/2024 8:26:21 AM		
Certified Delivered	Security Checked	6/4/2024 8:40:20 AM		
Signing Complete	Security Checked	6/4/2024 8:41:16 AM		
Completed	Security Checked	6/4/2024 8:41:22 AM		
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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If you elect to receive required notices and disclosures only in paper format, it will slow the speed at which we can complete certain steps in transactions with you and delivering services to you because we will need first to send the required notices or disclosures to you in paper format, and then wait until we receive back from you your acknowledgment of your receipt of such paper notices or disclosures. To indicate to us that you are changing your mind, you must withdraw your consent using the DocuSign 'Withdraw Consent' form on the signing page of your DocuSign account. This will indicate to us that you have withdrawn your consent to receive required notices and disclosures electronically from us and you will no longer be able to use your DocuSign Express user account to receive required notices and consents electronically from us or to sign electronically documents from us.

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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.

In addition, you must notify DocuSign, Inc to arrange for your new email address to be reflected in your DocuSign account by following the process for changing e-mail in DocuSign.

# To request paper copies from Texas Department of Transportation

To request delivery from us of paper copies of the notices and disclosures previously provided by us to you electronically, you must send us an e-mail to kevin.setoda@txdot.gov and in the body of such request you must state your e-mail address, full name, US Postal address, and telephone number. We will bill you for any fees at that time, if any. **To withdraw your consent with Texas Department of Transportation** 

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<b>A</b>	
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.

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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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