

Project Number: RMC 6471-42-001 County: San Jacinto, Etc. Control: 6471-42-001 Highway: US 59, Etc.

GENERAL NOTES:

PROJECT DESCRIPTION: Provide temporary traffic control and flagging operations to assist State forces in maintenance activities on various state-maintained roadways within the Polk, Trinity and San Jacinto County Maintenance Sections.

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.

COUNTY	SUPERVISOR	ADDRESS	CONTACT #
Polk	James Henagan	3161 US Hwy 59 N Livingston, TX 77351	(936) 327-8914
San Jacinto	Chester Dixon	8066 SH 150 West Shepherd, TX 77371	(936) 628-3328
Trinity	David Wars	884 W 1 st st, Groveton, Tx 75845	(936) 642-1132

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.

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

Minimize vehicles and equipment in construction areas to lessen the impact on existing vegetation. The intent of the plans is to prepare only that portion of the right-of-way necessary for construction. Excess damage to the vegetation in the right-of-way because of the Contractors operations shall be repaired at the Contractor's expense as directed by the Engineer.

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

Preslie Gerland	Lauren.Perry@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.

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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.

WORKERS AND EQUIPMENT:

The Contractor shall furnish such suitable equipment and labor as may be necessary in the opinion of the Engineer for proper prosecution of the work.

The Contractor shall use a crew with certified training and the crew shall be experienced in the work zone traffic control operations.

ITEM 2: INSTRUCTIONS TO BIDDERS

View plans on-line or download from the web at: http://www.txdot.gov/business/contractors_consultants/plans_online.htm

Order plans from any of the plan reproduction companies shown on the web at: http://www.txdot.gov/business/letting-bids/repro-companies.html

ITEM 4: SCOPE OF WORK

This Contract includes non-site-specific work on an as-needed basis. Work operations will begin upon an initial issuance of a work order. For non-emergency work, a minimum 12-hour verbal notice will be given by designated TxDOT personnel. Report to the requesting TxDOT Maintenance Office each morning services are requested to receive in person directions for required traffic control plan, schedule of work and location.

In the event emergency traffic control services are requested, report to the requested location within 30 minutes of notification plus adequate travel time.

The contract may be extended if in the judgment of the Engineer, the Contractor has satisfactorily fulfilled the terms and conditions of the contract. The extension must be agreed upon in writing by both parties to the contract and may be extended for an additional period not to exceed the original contract period. The extended contract may be for additional quantities up to the original bid quantities plus any quantities added by an approved change order. The extensions shall meet the terms and conditions of the original contract or any mutually agreed modifications to the said terms and conditions by one or more cumulative change orders. The Engineer will set a deadline for completing the agreements. This deadline will be based in the time needed to re-let and award a new contract if no extension is agreed upon.

In the event Special Provision 004-001 is executed, no payment for Item 500, "Mobilization" will be made in the extension.

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Item 7: Legal Relations and Responsibilities

The proposed work of this project is providing call-out temporary traffic control and flagging operations to assist routine maintenance activities within the Polk County and San Jacinto County Maintenance Sections. This activity maintains the original line and grade, hydraulic capacity, and original purpose of the site. Therefore, this project meets the definition of a routine maintenance activity as defined in the TPDES General Permit No. TXR150000 effective March 5, 2023, and TCEQ's TPDES CGP does not apply.

Historical markers, buildings, and property may be present within the project limits. Contractor to repair or replace in kind, at their own expense, any historic materials damaged (buildings, historical markers, etc.) while executing the work. Contractor is responsible for locating replacement source for historic materials damaged 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 execution of repairs.

 Portions of roadways within the San Jacinto County Maintenance Section occurs within compartments of the Sam Houston National Forest (SHNF). Below are the following roadways and actions required: 1. FM 9452. FM 1725 3. FM 2025 4. SH 150 5. FM 3081 6. FM 26667. FM 26938. FM 3018 Maintenance Section Supervisor shall notify the USFS-Sam Houston National Forest prior to commencing work on the above roadways.

• Texas trailing phlox (Federally listed endangered species) habitat is present within the ROW along FM 1276 in Polk County. The conservation measure below must be followed to comply with the Endangered Species Act:

NO STOCKPILING MATERIALS or EQUIPMENT STORAGE allowed within the ROW and NO EQUIPMENT or VEHICLES shall leave the pavement along FM 1276 from 5 miles South of US 190 to 7 miles South of US 190.

• Neches River rose-mallow (Federally listed endangered species) Critical Habitat is present within the ROW along SH 94 and FM 230. The conservation measures below must be followed to comply with the Endangered Species Act:- SH 94 From 1.0 mi. W of Angelina/Trinity CL to 1.13 mi. W of Angelina/Trinity CL.- FM 230 From 2.25 mi. W of SH 19 to 2.90 mi. W of SH 19NO STOCKPILING MATERIALS or EQUIPMENT STORAGE allowed within the ROW and NO EQUIPMENT or VEHICLES shall leave the pavement along the limits above.

• Red-cockaded Woodpecker (Federally listed Endangered Species) habitat is present adjacent to the ROW along the following roadways:

In San Jacinto County:

- FM 945: From FS 274 to 4.1 miles North of FS 274 and from FS 256 to 0.55 miles South of FS 256. - FM 2025: From Lower Vann Rd. to 1 mile South of Lower Vann Rd.- FM 2666: From FM 2025 to 1.2 miles East of FM 2025.- FM 2693: From 2.6 miles East of the Walker County Line to 4.0 miles East of the Walker County Line.

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In Trinity County:- FM 2262: From 0.25 mi. N of FM 357 to 1.33 mi. N of FM 357- FM 357: From 1.14 mi. W of FM 357/FM 2262 intersection to 3.18 mi. W of FM 2262/FM 357 intersection- FM 2781: From 1.0 mi. S of CR 4615 to 3.5 mi. S of CR 4615

NO STOCKPILING MATERIALS OR EQUIPMENT STORAGE is allowed within the ROW along the roadways limits above.

• Portions of FM 1276, FM 943, and FM 2610 in Polk County are within or adjacent to Big Thicket National Preserve (BITH). Below are the following roadway limits within BITH and actions required:

FM 2610: From 0.25 mi. North of Menard Creek to 0.14 mi. South of Menard Creek.
FM 1276: From the intersection of FM 943 to 0.73 mi. North of intersection of FM 943. From 3.30 miles South of US 190 to 7.0 miles South of US 190.- FM 943: From 0.37 mi. West of Menard Creek to 0.30 mi. East of Menard Creek; From 0.36 mi. East of Segno Fire Lane Rd. to 0.54 mi. East of Segno Fire Lane Rd; From 1.18 mi. Northwest of FM 1276 intersection to 0.23 mi. Southeast of FM 1276 intersection; From Hardin County Line to 2.32 mi. Northwest of Hardin County Line; From 0.31 mi. Southeast of Wiggins Loop Rd. to 2.01 mi. Southeast of Wiggins Loop Rd.

The following roadways traverse through compartments of the Davy Crockett National Forest (USFS) and require the following actions:- US 287, SH 94, FM 2781, FM 3154, FM 358, FM 1280, FM 357, FM 2262, and FM 3317

NO STOCKPILING MATERIALS or EQUIPMENT STORAGE within the ROW along the roadway limits provided above.

Maintenance Supervisor shall notify the appropriate forest service (i.e. Davy Crockett, Big Thicket National Preserve) prior to the commencement of work on the above roadways within USFS boundaries.NO trees within the USFS boundaries are to be removed or trimmed without prior approval from the USFS.

ITEM 8: PROSECUTION AND PROGRESS

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

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

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

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

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

Any work performed without proper notification will not be eligible for payment. Perform work only as directed by a work order. Any work performed at locations not covered by a work order will not be paid for, unless directly authorized.

In accordance with Article 8.6 "Failure to Complete the Work on Time", liquidated damages will be charged for failure to complete each work order in the specified number of days. The Liquidated Damage amount to be assessed per day, until the work is completed will be 1% of the estimated cost of the Work Order, but not less than \$250 per day and not to exceed \$1000 per day.

ITEM 9: MEASUREMENT AND PAYMENT

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

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

- 1. The contractor fails to begin work at the specified time and/or location(s).
- 2. 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.

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 502: BARRICADES, SIGNS, AND TRAFFIC HANDLING

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

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

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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.

Use "Do Not Pass" (R4-1) signs to mark the beginnings of roadway sections where passing is prohibited and use "Pass With Care" (R4-2) signs to mark the beginnings of roadway sections where passing is permitted. Install signs at the time signing for project limits are erected. Sign placement shall be verified and approved.

This project requires speed reduction signs during construction. Fabricate, provide, and maintain speed limit signs (XX mph) as shown on the applicable BC standards. Remove or cover, with an approved method, regulatory speed limit signs, when not applicable. These signs are required for both lanes of travel on divided highways regardless of the location of work. Furnishing, erecting, relocating, and removing temporary speed zone signs is subsidiary to Item 502.

When pavement work begins, use flashing arrow panels and flaggers 24 hr. per day during inclement weather or as directed.

Install "No Center Line" (CW8-12) and "Loose Gravel" (CW8-7) signs at 2-mile intervals prior to the start of surface treatment operations.

In general, restrict construction work to single lane widths. Control traffic in accordance with standard drawings WZ(BTS-1) "Traffic Signal Installation Typical Details"; WZ(BTS-2) "Traffic Signal Installation Barricades and Signs"; and Part VI of the "Texas Manual on Uniform Traffic Control Devices for Streets and Highways". Unless otherwise approved, use an advance warning, flashing arrow panel in addition to the necessary signs, barricades, or other traffic control devices at the work area.

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.

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

Provide flashing arrow panels to supplement required signs and devices for lane closures.

Provide temporary rumble strips as shown on work zone rumble strip standards. Temporary rumble strips shall be a product listed on the Compliant Work Zone Traffic Control Devices and shall be a two-piece rumble strip that hinges in the middle.

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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.

Halt traffic during the time asphalt is being applied to the roadway. No vehicles will be allowed to pass the asphalt distributor during asphalt application.

Provide adequate flaggers to protect the traveling public when working on or near a roadway carrying traffic.

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.

Use a flashing arrow board in addition to the required signs to warn motorists of flaggers.

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.

Install "Pavement Ends" (CW8-3) sign where the paved surface of the road ends. Use flashing arrow panels to supplement these signs during nighttime hours.

Provide one high-intensity yellow, rotating dome-light on all equipment such as distributors, spreader boxes, lay-down machines, dump trucks, rollers, backhoes, road graders, loaders, etc. within the work zone. Mount lights high enough to be visible from all directions and operating when the equipment is in the work zone. On all other equipment such as automobiles, trailers, etc. use emergency flashers while within the work zone.

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.

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 or barrels on the approach side of each site that is within 30 ft. of the driving lane. Use TY III Barricade or barrels for the site similarly on the departure side if the location is within 30 ft. of the opposing traffic lane.

Law enforcement assistance may be required for this project and is expected to be required for major traffic control changes and lane closures. Coordinate with local law enforcement and arrange for law enforcement as directed or agreed by the Engineer. Complete the daily tracking

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form provided by the department and submit invoices that agree with the tracking form for payment at the end of each month approved services were provided.

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.

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.

Temporary stop lines as shown on TCP (2-2)-18 may be omitted as directed by the engineer.

Provide an illuminated flagger station when nighttime work is performed.

All personnel 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.

Advance warning signs shall be placed in both directions on divided highway per BC (2)-XX. Duplicate signs are required on inside and outside of travel lanes on divided highways.

ITEM 503: PORTABLE CHANGEABLE MESSAGE SIGN

The relocation of a PCMS outside the project limits will be subsidiary to Items 502.

ITEM 505: TRUCK MOUNTED ATTENUATOR (TMA) AND TRAILER ATTENUATOR (TA)

The contractor will be responsible for determining if multiple stationary operations will be ongoing at the same time to determine the total number of TMAs needed for the project.

Quantities were estimated based on one mobile working operation, as per the number of working days. If multiple crews are utilized, additional TMAs will be required.

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.

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ITEM 506: TEMPORARY EROSION, SEDIMENTATION, AND ENVIRONMENTAL CONTROLS

Locations and types of BMPs may require adjustments prior to or after placement as directed by the Engineer. Adjustments should be made to ensure BMPs are working effectively and maintain compliance with the Construction General Permit. Notify the Engineer prior to adjusting.

Furnish compost for core material in biodegradable erosion control logs.

ITEM 790: LANE CLOSURES

Provide a minimum of a 2-man crew, for each Maintenance Section, that is responsible for hauling all traffic control devices to the work location (whether devices are provided by the Contractor or the Department), installing, maintaining devices, and providing flagging services as required. These personnel will not be paid for separately, but shall be considered subsidiary to Item 790, "Lane Closures" of the type specified.

If traffic control plan requires more than 2 flaggers, provide additional flagging personnel as required. These additional flaggers shall be paid for under Item 790, "Furnish Additional Flagger".

If the work scheduled is a mobile operation, no payment shall be made under Item 502, "Barricades, Signs, and Traffic Handling." Only payment under Item 505, "Truck Mounted Attenuator (Mobile Operation)" shall be made for the number of Truck Mounted Attenuators required for the mobile operation.

The contractor shall complete the lane closure setup in 45 minutes or less for closures up to 1 mile. The setup shall be completed in 1 hour or less for closures greater than 1 mile and up to 2 miles. Failure to meet these time limits will be considered "noncompliance".

Time for determining pay shall begin at the time requested that the crew reports to the Maintenance Section's yard. Time shall stop when the work operations are complete, and the crew has removed the traffic control devices from the roadway. No time shall be paid for travel to the Maintenance Section or for travel time returning at the end of the day. No time shall be counted if the crew is late or if the crew fails to install or remove the traffic control devices in a reasonable amount of time as determined by the Engineer.

Payments for each respective lane closure types that extend beyond twenty-four hours of the initial period shall be made at 25 percent of that bid item for each additional twenty-four-hour period required.

The Maintenance Section Supervisor and Area Engineer shall decide if the "Maintenance Work Zone Speed Limit Signs" are needed. If needed, these signs will be paid for under appropriate items.

The maintenance schedule for work zone speed limit signs shall be agreed upon prior to installation of the signs.

CANCELLATION POLICY: If work operations are cancelled less than one hour prior to the scheduled arrival time, TxDOT shall pay 4 hours for the items requested in the work order.

MINIMUM HOURS TO BE PAID: Once work operations have begun for any given day, should TxDOT decide to stop work operations for any reason other than non-compliance, TxDOT shall pay a minimum of four hours per item requested or for the actual number of hours used per item if greater than four hours. TxDOT shall pay a minimum of four hours per item or for the actual number of hours used if greater than four hours for emergency traffic control services.

Man the traffic control operations and have personnel report to jobsite at the specified time. Designate at least one on-site English-speaking representative who is qualified and has decision making authority on behalf of the Contractor.

The Contractor shall be responsible for monitoring each location every 30 minutes for the re-establishment of signs, cones, barrels or any other damaged or missing traffic control devices.

The Contractor shall have sufficient qualified manpower and equipment to revise the traffic control as directed by the Engineer.

No more than one lane shall be blocked at any time on any highway unless approved by the Engineer.

Restrict the movement of equipment across traffic lanes to an absolute minimum.

Use strobe lights or rotating beacons on all motorized equipment, operating on or adjacent to the road surface.

Ensure equipment and materials are a minimum of thirty (30) feet from the edge of the travel lane during non-working hours.

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.

Pilot vehicle only shall be paid for under Item 790, "Pilot Vehicle and Operator". The driver of the pilot vehicle shall be separate from the 2-man crew required for each type of set up.

Signs and arrow boards required on Truck Mounted Attenuators and Pilot Vehicles shall be subsidiary to pertinent items. Additional arrow boards, if required, will be paid for under Item 790, "Furnish Additional Arrow Board".

Provide channelizing devices for up to a 2-mile lane closure. All channelizing devices shall meet the requirements for intermediate term stationary set-ups. Maintain traffic control devices as necessary.

Existing traffic signs which provide conflicting information to the driver during various stages shall be covered until such time that a conflict no longer exists.

General Notes

Sheet 2D

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Furnish and install all signs, barricades, and other incidentals that are not provided by the Department, in accordance with Part VI of the Texas Manual on Uniform Traffic Control Devices for Streets and Highways, or as directed. All warning signs must be factory made and in satisfactory condition.

Erect signs in locations not obstructing the traveling public's view of the normal roadway signing or necessary sight distance at intersections and curves.

Relocate or remove temporary signs as necessary.

Remove or cover construction signs not in use. Do not lay down signs.

When necessary, provide certified flaggers properly attired in a white hard hat, clean and fully fastened approved safety vest and stop/slow paddle in lieu of a standard flag. Use provided twoway radios to communicate with the TxDOT Crew Chief during the specified work operations as well as in areas where flagmen do not have visual contact with one another or cannot communicate with one another.

Provide certified flaggers at the ends of work areas and at all other points of conflict with roadway machinery and roadway traffic when and as directed by the Engineer.

No long-term stationary set-ups shall be used under this contract except in emergency situations. Pavement markings shall not be required for intermediate term stationary set-ups.

Channelizing devices for lane closure taper and tangent may be provided by TxDOT when traffic control plans other than the types specified in the plans are requested.

Employees shall park vehicles off the right-of-way and away from the work zone as approved. No vehicles shall be allowed to park next to flaggers on the right-of-way.

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Estimate & Quantity Sheet

COUNTY San Jacinto



DISTRICT Lufkin HIGHWAY US0059

	CONTROL SECTION JOB			6471-42	2-001		
		PR	OJECT ID	A0021	1558		
			COUNTY	San Ja	cinto	TOTAL EST.	TOTAL FINAL
		н	IGHWAY	USOO	59		
ALT	BID CODE	DESCRIPTION	UNIT	EST.	FINAL		
	500-7001	MOBILIZATION	LS	1.000		1.000	
	503-7001	PORTABLE CHANGEABLE MESSAGE SIGN	DAY	15.000		15.000	
	505-7001	TMA (STATIONARY)	DAY	180.000		180.000	
	505-7002	TMA (MOBILE OPERATION)	HR	495.000		495.000	
	790 - 7001	LANE CLOSURE(SETUP & REM)(TYP 1)	EA	2,700.000		2,700.000	
	790 - 7002	LANE CLOSURE(SETUP & REM)(TYP 2)	EA	1,450.000		1,450.000	
	790 - 7005	LANE CLOSURE(SETUP & REM)(TYP 5)	EA	70.000		70.000	
	790 - 7006	LANE CLOSURE(SETUP & REM)(TYP 6)	EA	90.000		90.000	
	790 - 7007	LANE CLOSURE(SETUP & REM)(TYP 7)	EA	50.000		50.000	
	790-7011	LANE CLOSURE(SETUP & REM)(TYP 11)	EA	20.000		20.000	
	790-7014	LANE CLOSURE(SETUP & REM)(TYP 14)	EA	40.000		40.000	
	790-7018	LANE CLOSURE(SETUP & REM)(TYP 18)	EA	75.000		75.000	
	790-7020	LANE CLOSURE(MAINTENANCE)(TYP 1)	HR	1,130.000		1,130.000	
	790 - 7021	LANE CLOSURE(MAINTENANCE)(TYP 2)	HR	2,400.000		2,400.000	
	790 - 7022	LANE CLOSURE(MAINTENANCE)(TYP 3)	HR	40.000		40.000	
	7010 - 7001	MAINTENANCE SPEED LIMIT SIGNING	EA	30.000		30.000	
	7010-7002	MAINTENANCE SPEED LIMIT SIGNING	DAY	30.000		30.000	

CONTROLLING PROJECT ID 6471-42-001

TxDOTCONNECT

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Report Created On: Oct 8, 2024 5:52:16 AM

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	SUMMARY OF MAINTENANCE OF CALL-OUT TRAFFIC CONTROL ITEMS										
ITEM NO.	790 7001	790 7002	790 7005	790 7006	790 7007	790 7011	790 7014	790 7018	790 7020	790 7021	790 7022
MAINT. SECTION	LANE CLOSURE (HOURLY ONLY) (TYP 1)	LANE CLOSURE (HOURLY ONLY) (TYP 2)	LANE CLOSURE (HOURLY ONLY) (TYP 5)	LANE CLOSURE (HOURLY ONLY) (TYP 6)	LANE CLOSURE (HOURLY ONLY) (TYP 7)	LANE CLOSURE (HOURLY ONLY) (TYP 11)	LANE CLOSURE (HOURLY ONLY) (TYP 14)	LANE CLOSURE (HOURLY ONLY) (TYP 18)	ADDITIONAL LANE CLOSURE ITEM(TYPE 1)	ADDITIONAL LANE CLOSURE ITEM(TYPE 2)	ADDITIONAL LANE CLOSURE ITEM(TYPE 3)
	HR	HR	HR	HR	HR	HR	HR	HR	HR	HR	HR
POLK	750	500	20	40	0	20	10	25	400	600	0
SAN JACINTO	750	750	0	0	50	0	30	25	600	600	20
TRINITY	1200	200	50	50	0	0	0	25	130	1200	20
TOTALS	2700	1450	70	90	50	20	40	75	1130	2400	40

SUMMARY OF MAINTENANCE OF CALL-OUT								
ITEM NO.	503 7001	505 7001	505 7002	7010 6001	7010 6002			
COUNTY	PORTABLE CHANGEABLE MESSAGE SIGN	TMA (STATIONARY)	TMA (MOBILE OPERATION)	MAINTENANCE SPEED LIMIT SIGNING	MAINTENANCE SPEED LIMIT SIGNING			
	DAY	DAY	HR	EA	DAY			
POLK	5	100	210	10	10			
SAN JACINTO	5	40	210	10	10			
TRINITY	5	40	75	10	10			
TOTALS	15	180	495	30	30			

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



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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 Manualon Uniform Traffic Control Devices" (TMUTCD).
- 2. 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 lacation of any device without the approval of the Engineer.
- 5. Geometric design of lane shifts and detaurs 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 Texos," 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 controldevices shown in the illustrations of the BC sheets are examples. As necessary, the Engineer will determine the most appropriate traffic controldevices to be used.
- 10. Where highway construction or maintenance work is being undertaken, other than mobile operations as defined by the Texas Manualon 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 shallbe erected in advance of the CSJ limits. The BEGIN ROAD WORK NEXT X MILES, CONTRACTOR and END ROAD WORK signs shallbe erected at 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 travellanes. 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:

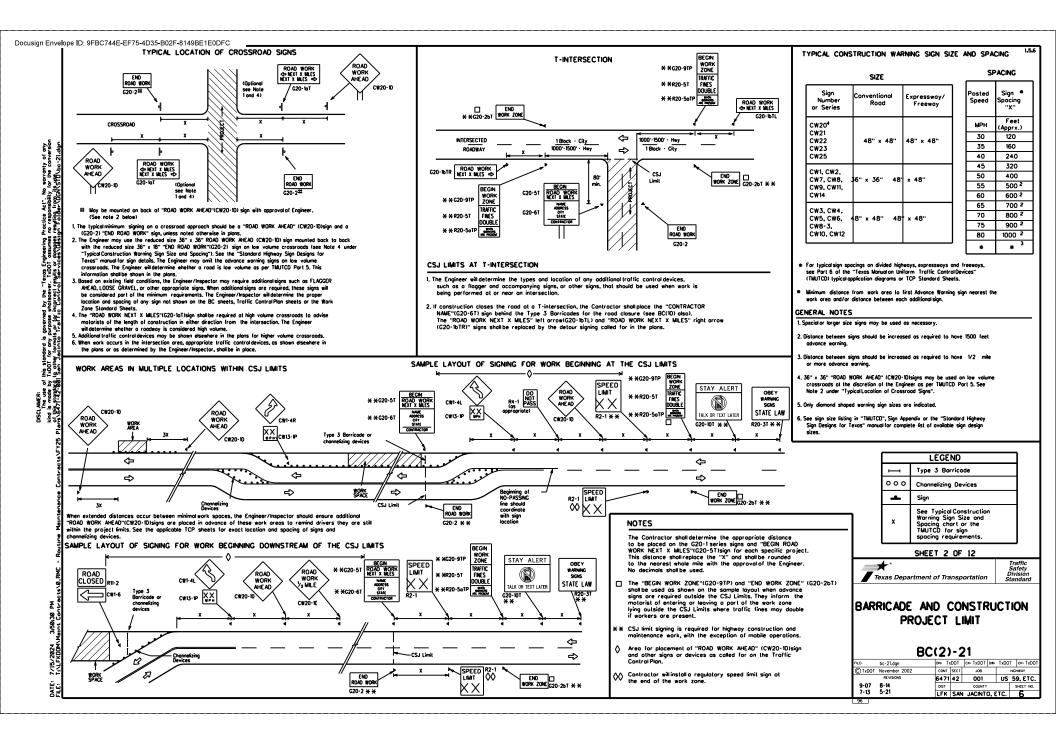
- Workers on foot who are exposed to traffic or to construction equipment within the right-of-way shall wear high-visibility safety apparetmeeting the requirements of ISEA "American National Standard for High-Visibility Apparel," or equivalent revisions, and labeled as ANSI 107-2004 standard performance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

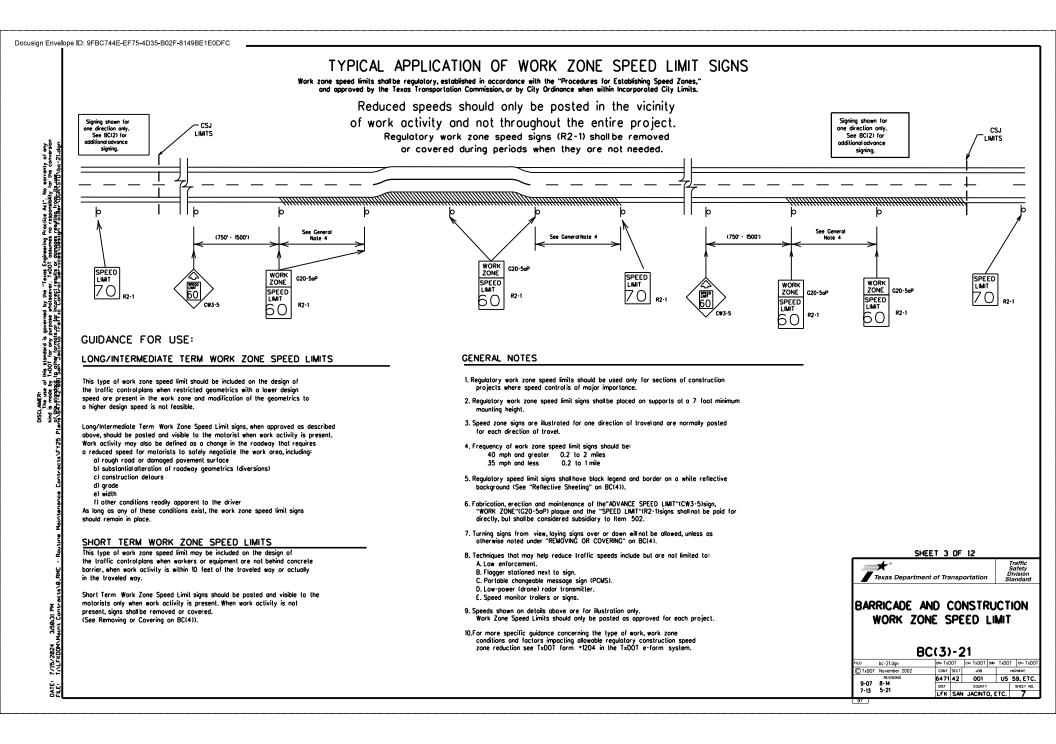
COMPLIANT WORKZONE TRAFFIC CONTROL DEVICES

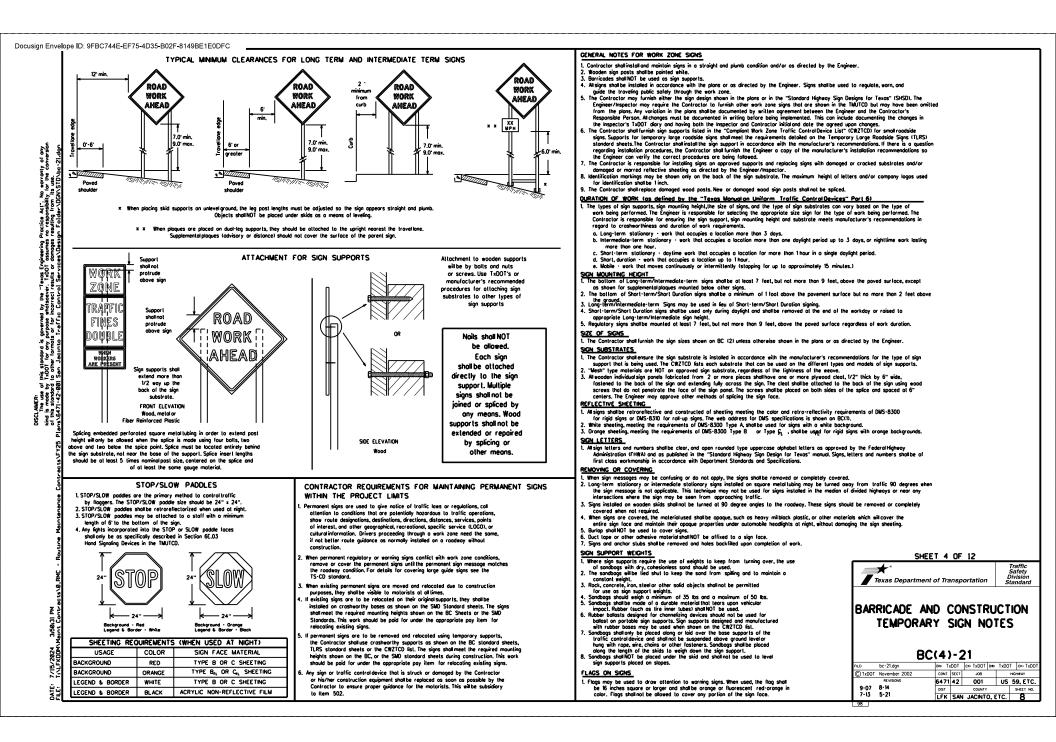
- Only pre-qualified products shall be used. The "Compliant Work Zone Traffic Control Devices List" (CWZTCD) describes pre-qualified products and their sources.
- Work zone traffic control devices shall be compliant with the Manual for Assessing safety Hardware (MASH).

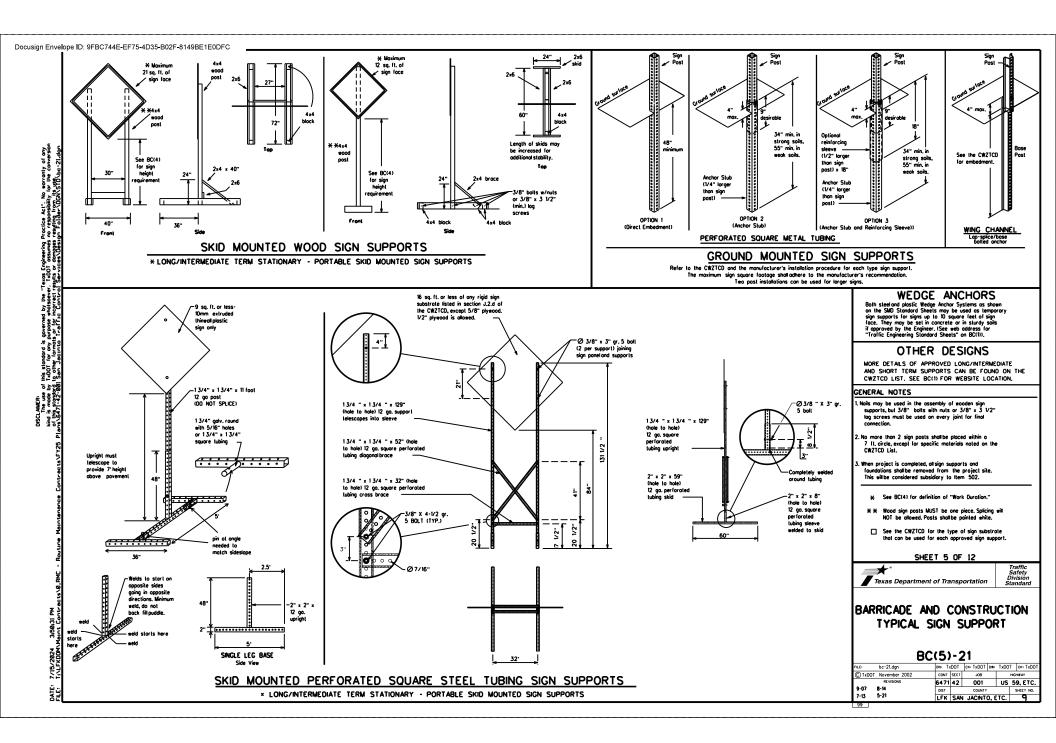
THE DOCUMENTS BELOW CAN BE FOUND ON-LINE AT
http://www.txdot.gov
COMPLIANT WORK ZONE TRAFFIC CONTROL DEVICES LIST (CWZTCD)
DEPARTMENTAL MATERIAL SPECIFICATIONS (DMS)
MATERIAL PRODUCER LIST (MPL)
ROADWAY DESIGN MANUAL - SEE "MANUALS (ONLINE MANUALS)"
STANDARD HIGHWAY SIGN DESIGNS FOR TEXAS (SHSD)
TEXAS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

SHEET 1 OF 12							
★*	nent of Tra	nsp	ortation		Traffic Safety Division Standard		
BARRICADE AND CONSTRUCTION GENERAL NOTES AND REQUIREMENTS BC(1)-21							
		DOT		ow TxD	OT CK: TxDOT		
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PORTABLE CHANGEABLE MESSAGE SIGNS

- 1. The Engineer/Inspector shall approve all messages used on portable
- changeable message signs (PCNS). 2. Messages on PCMS should contain no more than 8 words (about four to eight characters per word), not including simple words such as "TO," "FOR," "AT," etc.
- Hessages 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
- 4. 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. 6. When in use, the bottom of a stationary PCMS message panel should be
- 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 Salurday morning and end by Sunday evening at midnight. Actualdays and hours of work should be displayed on the PCMS if work
- actuations and nours of work shallow be asployed on the runs in work is to begin on Friday evening and/or continue into Manday marning. 8. The Engineer/Inspector may select one of two options which are avail-able for disploying a two-phase message on a PCMS. Each phase may be disployed for either four seconds each or for three seconds each.
- Do not "flosh" messages or words included in a message. The message should be steady burn or continuous while displayed.
- 10. Do not present redundant information on a two-phase message: i.e., keeping two lines of the message the same and changing the third line.
- to not use the word "Donger" in message the same and changing the timo me. 12. Oo not display the message "LANES SHIFT LEFT" or "LANES SHIFT RICHT" on o PCNS, Drivers do not understand the message. 13. Do not display messages that scrallhorizontally or vertically across
- the lace of the sign. 14. The following table lists abbreviated words and two-word phrases that
- ore acceptable for use on a PCWS. Both words in a phrase must be displayed together. Words or phrases not on this list should not be obbreviated, unless shown in the TMUTCD.
- obsreviated, unless shown in the TMUTCO. 15 PCUS character height should be at least 18 inches for trailer mounted units. They should be visible from at least 102 (c.1.5) mile and the text should be leighte from at least 600 feet to inght and 800 feet in doylight. Track mounted units must have a character height of 10 inches and must be leighte from at least 400 feet. 16. Each fing of Less should be centered on the message board rother than that the instantiant of the should be centered on the message board rother than that the instantiant of the should be centered on the message board rother than

- b. com me of text should be centered on the message board rainer man left or right justified.
 17. If disabled, the PCMS should default to an illegible display that will not alarm motorists and willowly be used to alert workers that the PCMS has matturactioned. A pattern such as a series of horizontal solid bars is appropriate.

	CCS RD	Najor MAJ	
Alternate	ALT	Wiles	MI
Avenue	AVE	Miles Per Hour	MPH
Best Route	BEST RTE	Winor	WNR
Boulevard	BLVD	Monday	MON
Bridge	BRDC	Normal	NORM
Cannot	CANT	North	N
Center	CTR	Nor thbound	(route)
Construction Ahead	CONST AND	Parking	PKING
CROSSING	XING	Rood	RD
		Right Lone	RTLN
Detour Route	DETOUR RTE	Saturday	SAT
Do Not	DONT	Service Rood	SERV RD
East	E	Shoulder	SHLDR
Eastbound	(route) E	Slippery	SLIP
Emergency	EMER	South	s
		Southbound	(route)
Entrance, Enter	ENT	Speed	SPD
Express Lone	EXP LN	Street	ST
Expressway	EXPRY	Sunday	SUN
XXXX Feet	XXXX FT	Telephone	PHONE
Fog Ahead	FOG AHD	Temporary	TEMP
Freewoy	FRWY, FWY	Thursday	THURS
Freewoy Blocked	FWY BLKD	To Downtown	TO DWNTN
Friday	FRI	Iroffic	TRAF
Hozordous Driving	HAZ DRIVING	Travelers	TRVLRS
Hozordous Noterial		Tuesday	TUES
High Occupancy	HOV	Time Minutes	TIME MIN
Vehicle	HOY	Upper Level	UPR LEVE
Highway		Vehicles (s)	VEH. VEHS
Hour (s)	HR, HRS	Warning	WARN
Information	LNFO	Wednesday	WED
† 8	LTS	Weight Limit	WT LIMIT
Junction	JCT	West	
Left	LFT	Westbound	(route)
Left Lone	LFT LN	Wet Pavement	WET PVWT
Lone Closed	LN CLOSED	Will Not	WONT
Lower Level	LWR LEVEL		1 WORL
Maintenance	MAINT	1	

RECOMMENDED PHASES AND FORMATS FOR PCMS MESSAGES DURING ROADWORK ACTIVITIES (The Engineer may approve other messages not specifically covered here.)

Phase 1: Condition Lists Road/Lane/Ramp Closure List Other Condition List FREEWAY FRONTAGE ROADWORK ROAD CLOSED XXX FT CLOSED

X MILE

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	L ANE S SHIF T
XXXXXXXX BL VD CLOSED	* LANES SHIFT in P	hose 1 must be used with STA	IY IN LANE in Phose 2.

L Only 1 or 2 phases are to be used on a PCWS. 2. The 1st phase for both should be selected from the Read/Long/Romp Closure List' and the "Dither Condition List". 3. A 2nd phase can be selected from the "Action to Toke/Effect on Travel, Location, General Worning, ar Avance Notice

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 shallbe 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

APPLICATION GUIDELINES

Phose Lists"

tion to Take/Eff: Lis		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	XXXXXXXX TO XXXXXXXX
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	
STAY IN LANE ×		

Phase 2: Possible Component Lists

* * See Application Guidelines Note 6.

Warning

List

SPEED

XX MPH

MAXIMUM

SPEED

XX MPH

MINIMUM

SPEED

XX MPH

ADVISORY

SPEED

XX MPH

RIGHT

I ANF

FXIT

USE

CAUTION

DRIVE

SAFELY

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* * Advance

Notice List

TUE-FRI

XX AM-

X PM

APR XX-

XX

X PM-X AM

BEGINS

MONDAY

BEGINS

MAY XX

MAY X-X

XX PM -

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NEXT

FRI-SUN

XX AM

то

XX PM

NEXT

TUE

AUG XX

TONIGHT XX PM-

XX AM

ROAD

REPAIRS

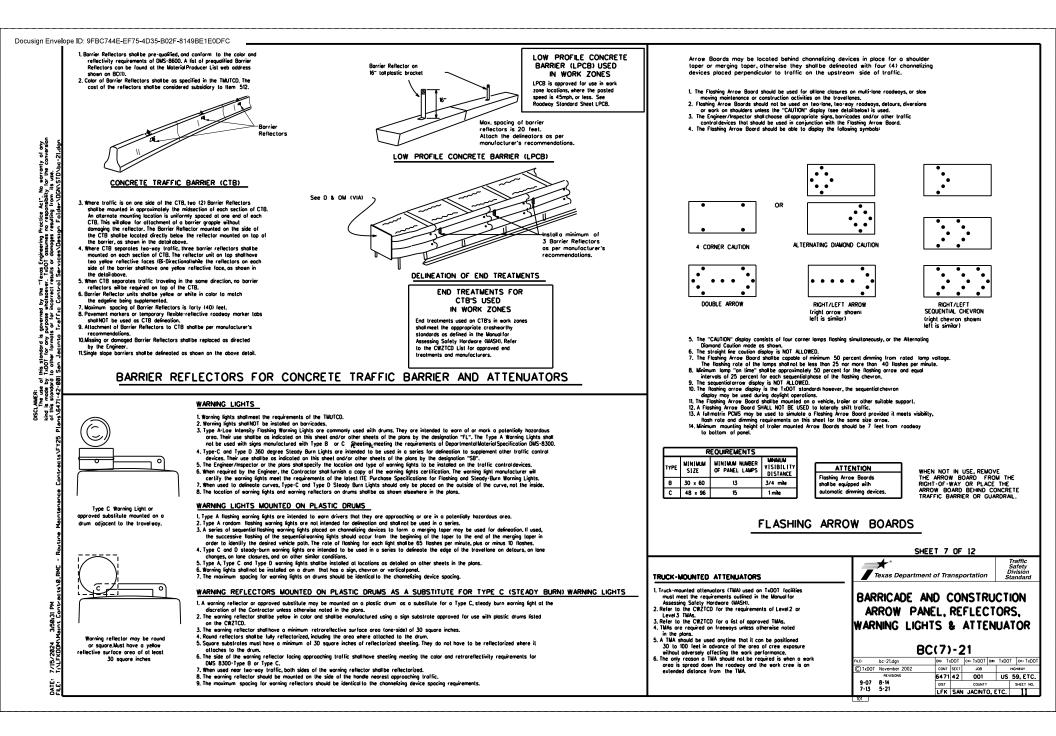
XXXX FT

- 1. The words RIGHT, LEFT and ALL can be interchanged as appropriate. 2. Roadway designations IH, US, SH, FM and LP can be interchanged as
- oppropriate. 3. EAST, WEST, NORTH and SOUTH (or abbreviations E, W, N and S) can

WORDING ALTERNATIVES

- be interchanged as appropriate. 4. Highway names and numbers replaced as appropriate. 5. ROAD, HIGHWAY and FREEWAY can be interchanged as needed.
- 6. AHEAD may be used instead of distances if necessary. 7. FT and NI, NILE and NILES interchanged as appropriate. 8. AT, BEFORE and PAST interchanged as needed.
- 9. Distances or AHEAD can be eliminated from the message if a
- location phase is used.

	311661	31	no more than one week prior to the work.		
EXPWY XXXX FT	Sunday	SUN		SH	ET 6 0F 12
	Telephone	PHONE			
FOG AHD FRWY, FWY	Temporary	TEMP	PCMS SIGNS WITHIN THE R.O.W. SHALL BE BEHIND GUARDRAIL OR	 *	Traffic Safety Division
	Thur sdoy	THURS			Division
	To Downtown	TO DWNTN	CONCRETE BARRIER OR SHALL HAVE A MINIMUM OF FOUR (4)	Texas Departme	nt of Transportation Standard
FRI	Iroffic	TRAF	PLASTIC DRUMS PLACED PERPENDICULAR TO TRAFFIC ON THE		
HAZ DRIVING	Travelers	TRVLRS			
HOV	Tuesday	TUES	UPSTREAM SIDE OF THE PCMS, WHEN EXPOSED TO ONE DIRECTION		
		TIME MIN	OF TRAFFIC. WHEN EXPOSED TO TWO WAY TRAFFIC. THE FOUR DRUMS	BARRICAUL A	ND CONSTRUCTION
HWY	Upper Level	UPR LEVEL	SHOULD BE PLACED WITH ONE DRUM AT EACH OF THE FOUR CORNERS OF THE UNIT.	000740	
HR, HRS	Vehicles (s)	veh, vehs	SHOULD BE PLACED WITH ONE DROM AT EACH OF THE FOUR CORNERS OF THE UNIT.	PURIABL	E CHANGEABLE
INFO		WARN			
ITS	Wednesday	WED	FULL MATRIX PCMS SIGNS	I MESSAGE	SIGN (PCMS)
		WT L[M]T	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		
JCT LFT	West	*	Liveren runworn ruws says ore used, ine choocen negational regulity visually requirements share maintaine as instea in note to under runking. CHANGKABLE MESSAGE SIGNS* above.		
LFT LN	Nestbound	(route) 🕷	. When symbol source and source and the "Flagger Symbol"(CW20-7) are represented graphically on the Full Matrix PCMS sign and, with the approval of the Engineer, it	I B	C(6)-21
	Net Povement	WET PVMT	2. when sympolisings, such as the "radget sympolic wa2/" or represented graphically on the rulework rCws sign and, with the approval of the Engineer, it shall be approval of the Engineer, it is the state of the st	FillE: bc-21.dgn	DN: TxDOT CK: TxDOT DW: TxDOT CK: TxDOT
LWR LEVEL	Will Not	WONT	shalmannian the expansive sound requirement as to do ver. 3. When symbolisations are represented graphically on the full Makrix PCMS, they shall only supplement the use of the static sign represented, and shall not substitute		
MAINT	1		 when symbols gins are represented graphically on the run warm whose they shall only supplement the use of the static sign represented, and shall not substitute for or realize that sign. 	CTxDOT November 2002	CONT SECT JOB HIGHWAY
1 4	,			REVISIONS	6471 42 001 US 59, ETC.
			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	DIST COUNTY SHEET NO.
er, US-number, SH-r	number, FM-number		some size orrow.	7-13 5-21	LFK SAN JACINTO, ETC. 10
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GENERAL NOTES

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- 1. For long term stationary work zones on freeways, drums shall be used as
- the primary channelizing device.
- if personnel are present on the project at all times to maintain the The Bestimmer or present on the project of or times to manual 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 langent
- sections by vertical panels, two-piece cones or one-piece cones as approved by the Engineer. 4. Drums and all related items shall comply with the requirements of the
- current version of the "Texas Manual on Uniform Traffic Control Devices" (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 offect 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-audified 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 shallock logether 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 (lexible, 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
- ot 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 shallhave a built-in handle for easy pickup and
- shall be designed to drain water and not collect debris. The handle shall have a minimum of two widely spaced 9/16 inch diameter hales to allow attachment of a warning light, warning reflector unit or approved compliant sign. 6. The exterior of the drum body shall have a minimum of four alternating
- orange and while 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
- 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.
- stic 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 have shall be marked with manufacturer's name and model number

RETROREFLECTIVE SHEETING

- The stripes used on drums shall be constructed of sheeling meeting the color and retroreflectivity requirements of Departmenta Materials Specification DMS-8300, "Sign face Materials." Type & Ar Type B reflective sheeting shall be supplied unless otherwise specified in the planes.
- 2. The sheeting shall be suitable for use on and shall adhere to the drum surface such that, upon vehicular impact, the sheeting shall remain adhered in-place and exhibit no detominating, cracking, or loss of retroreflectivity other than that loss due to abrosion of the sheeting surfore

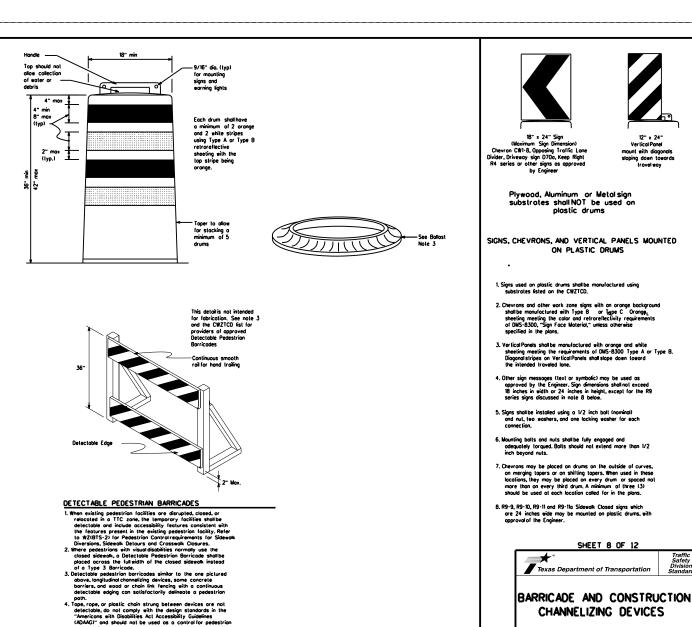
BALLAST

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- Unbailosted bases shall be large enough to hold up to 50 lbs. of sand. This base, when filled with the ballost 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 pavemen surface may not exceed 12 inches.
- 2. Bases with built-in ballost shall weigh between 40 lbs. and 50 lbs. Built-in ballost can be constructed of an integratorumb 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.
- The bollost 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.
- 5. When used in regions susceptible to freezing, drums shall have drainage holes in the bolloms so that water will not collect and freeze becoming a hazard when struck by a vehicle.
- 6. Ballast shall not be placed on top of drums.
- Adhesives may be used to secure base of drums to povement.



Traffic Safety Division Standard

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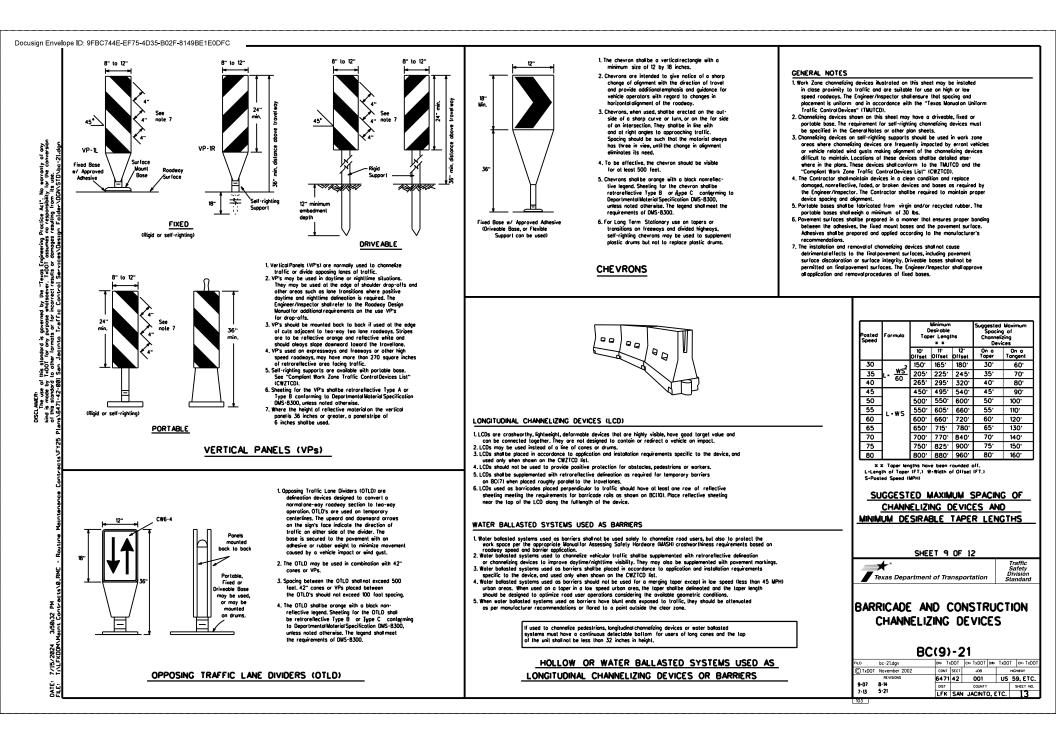
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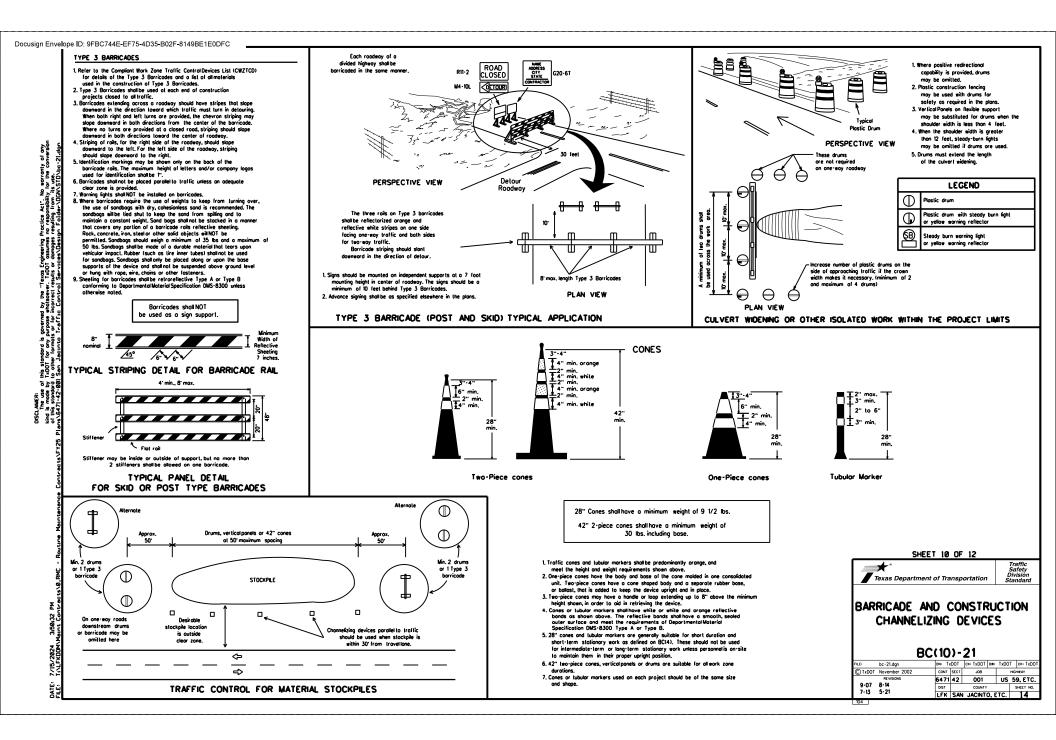
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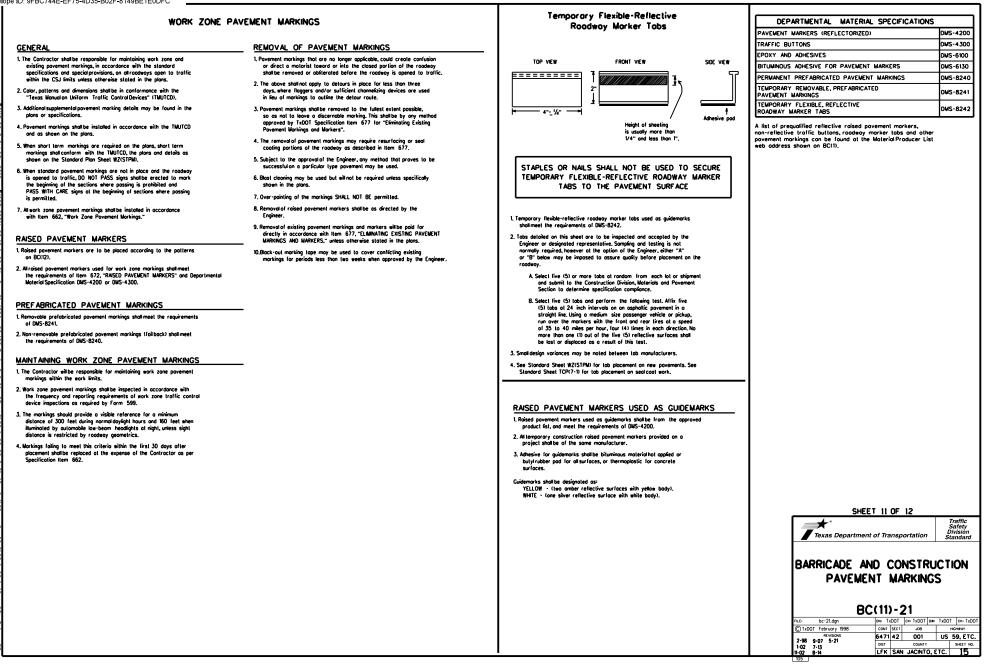
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COUNTY LFK SAN JACINTO, ETC. 12

- 5. Warning lights shall not be attached to detectable pedestrian borricodes
- borricodes. 6. Detectable pedestrian barricodes should use 8" nominal barricade rais as shown an BC(10) provided that the top railprovides a smooth continuous railsuitable for hand trailing with no splinters, burrs, or sharp edges.





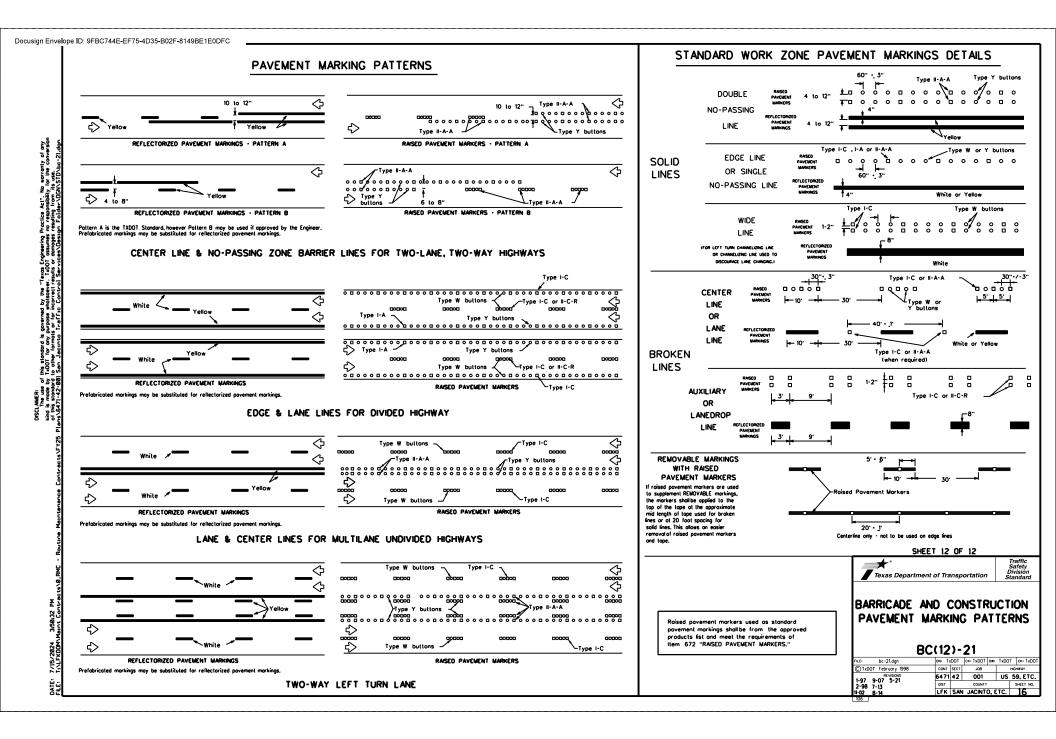


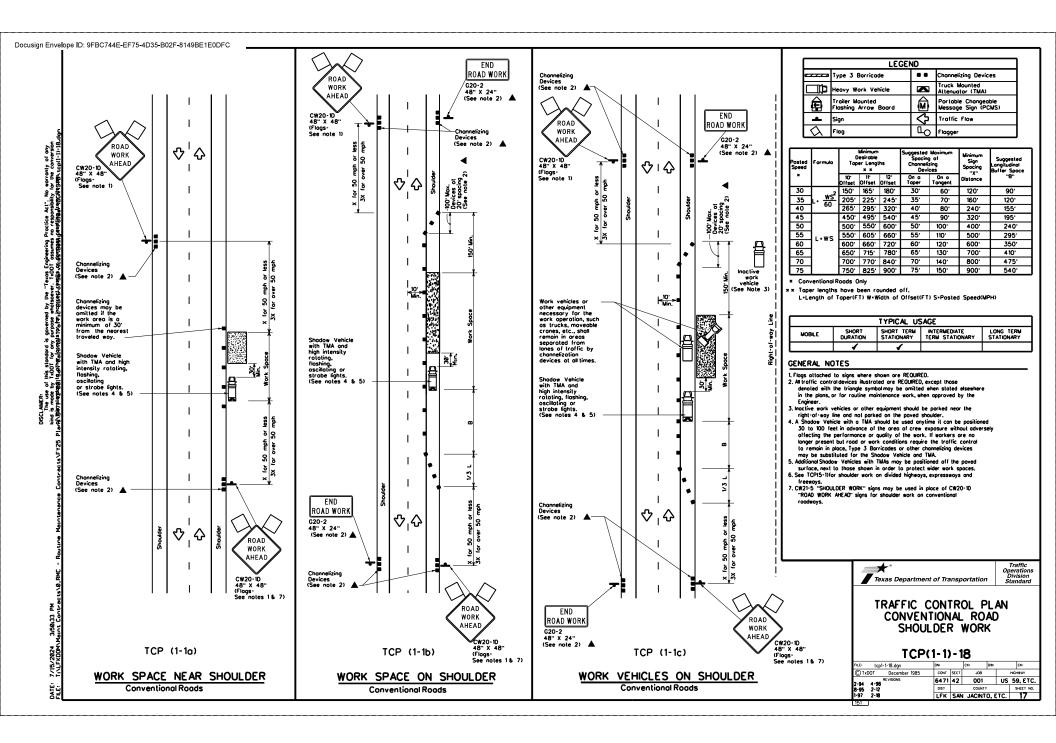
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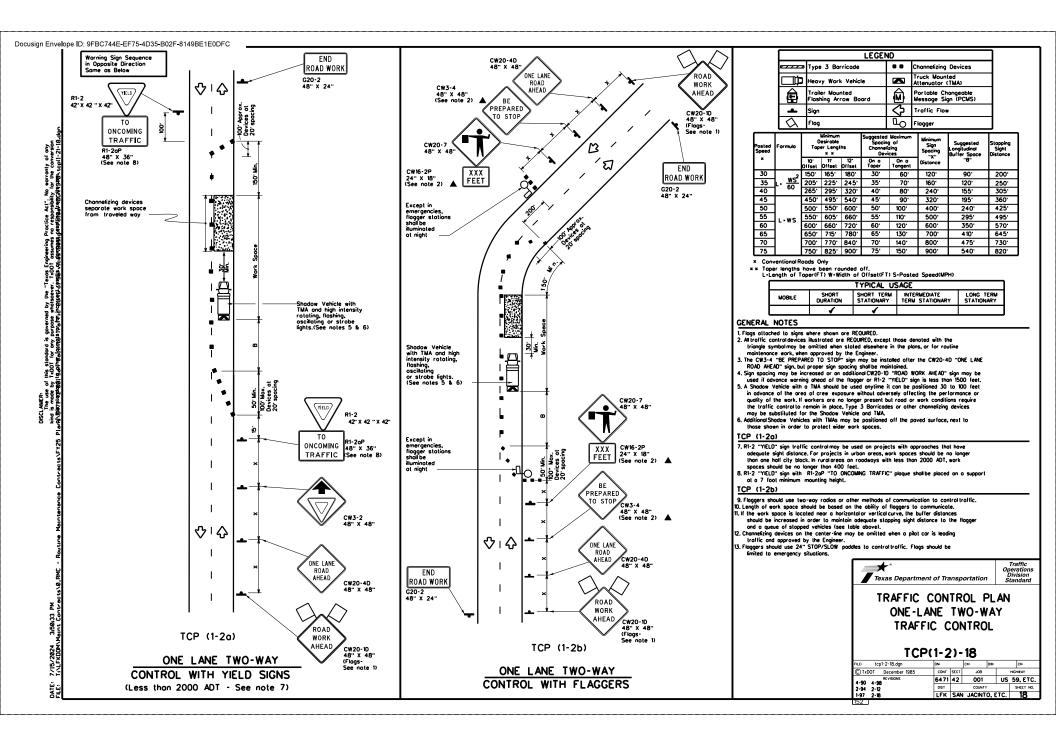
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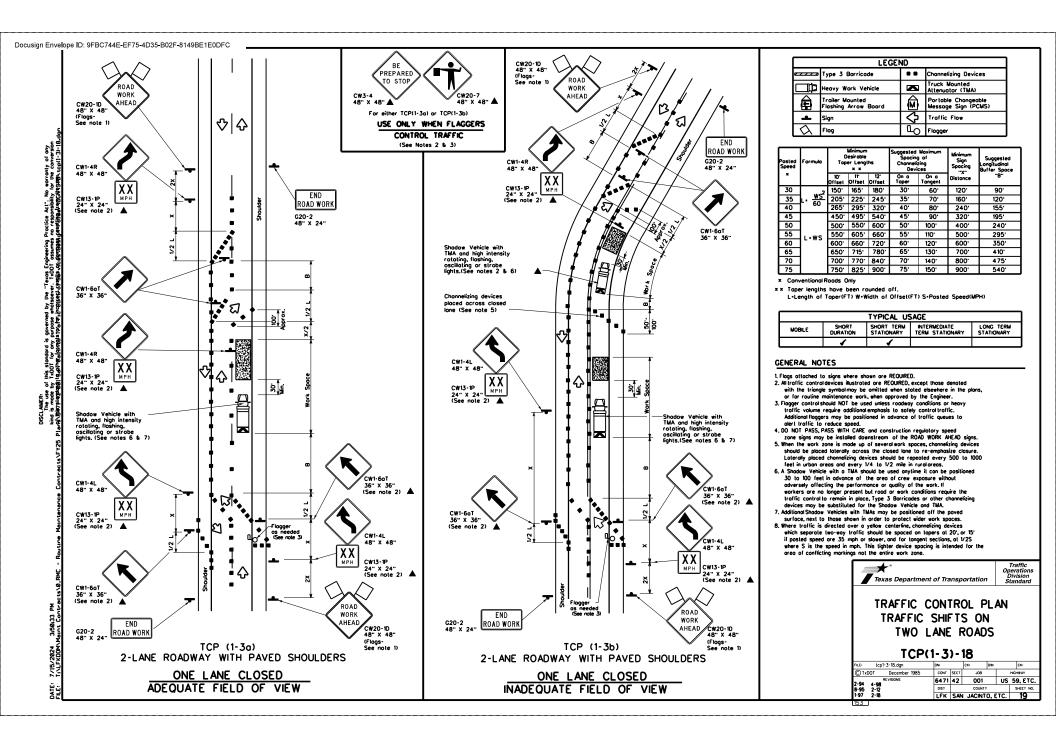
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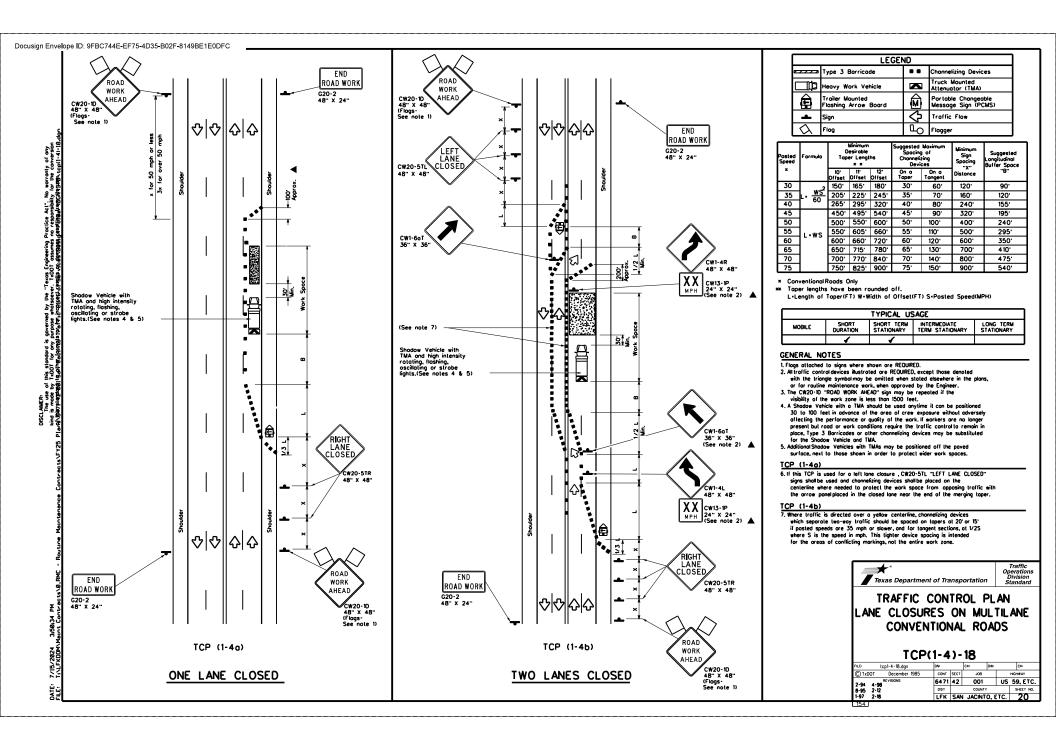
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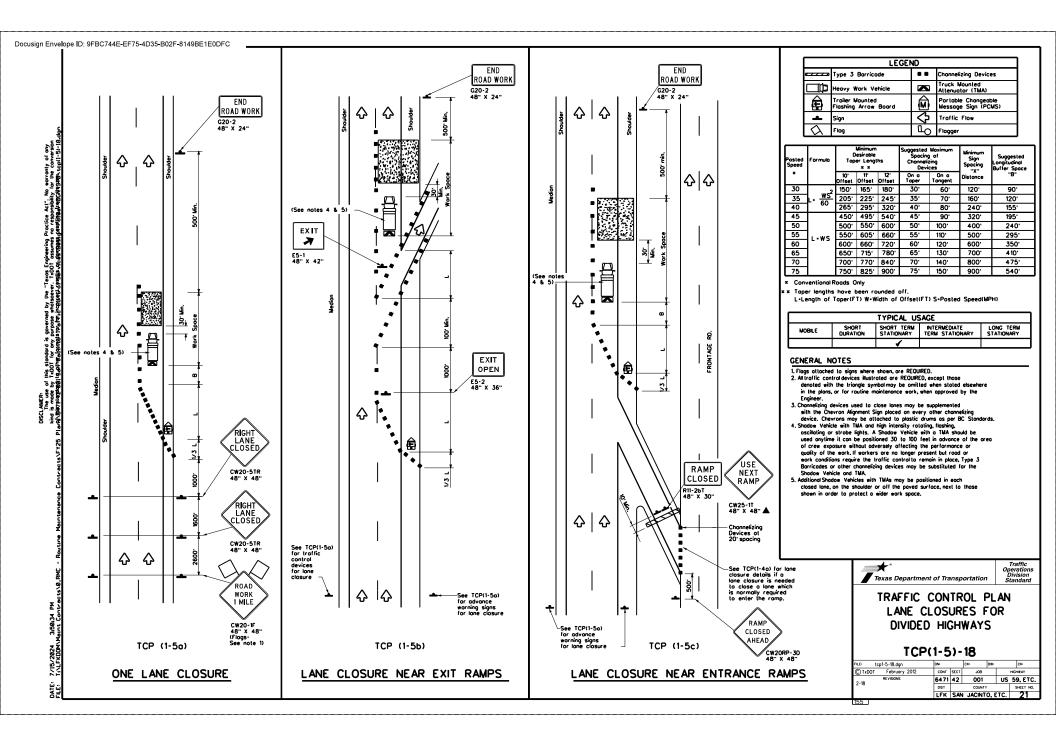


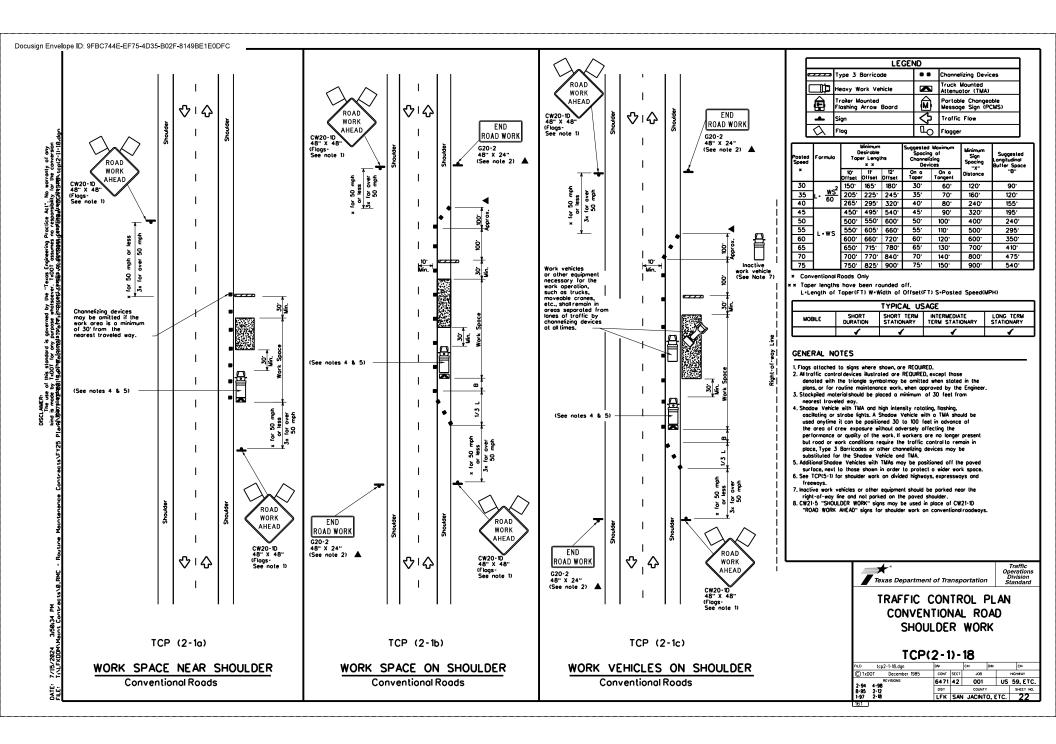


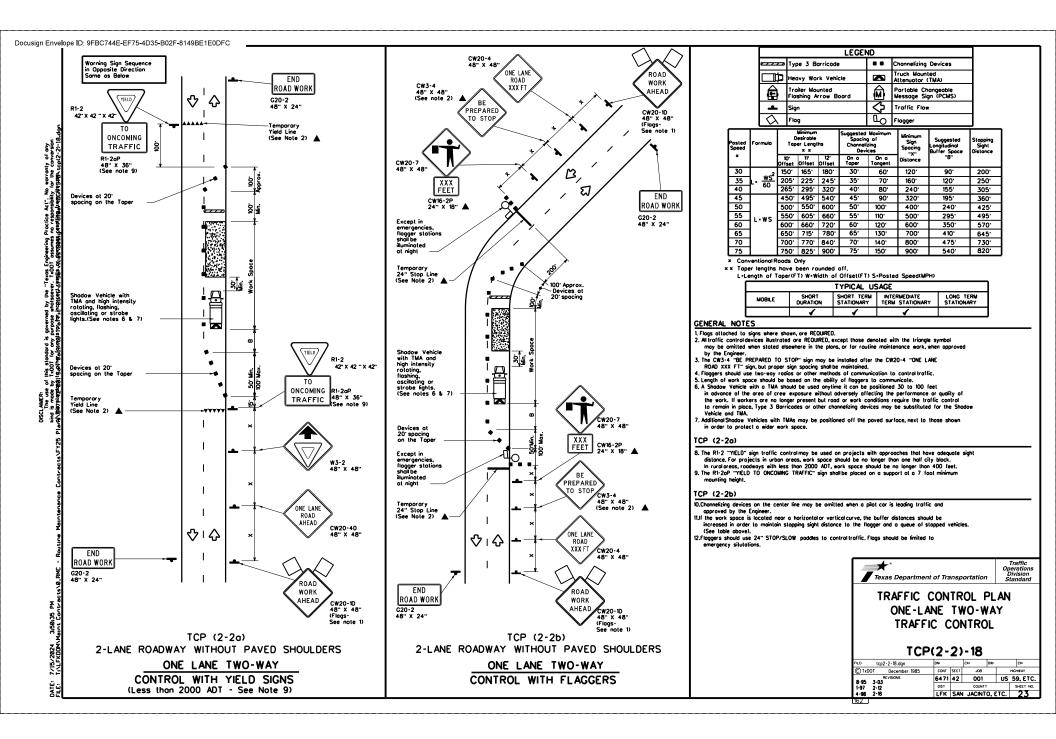


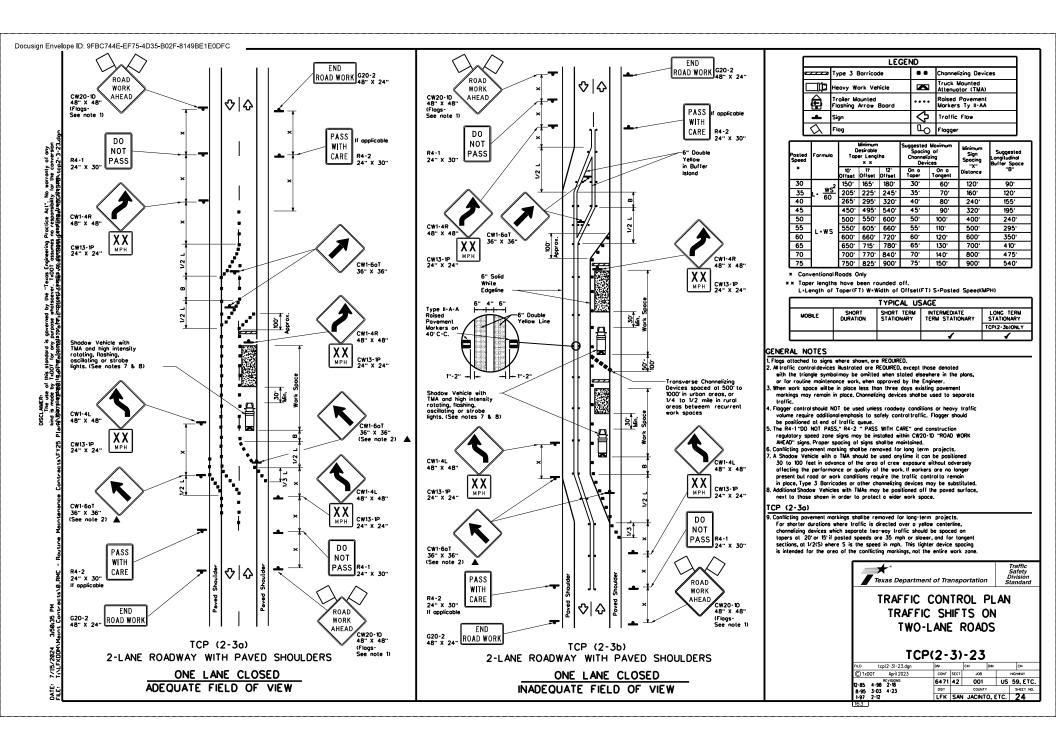


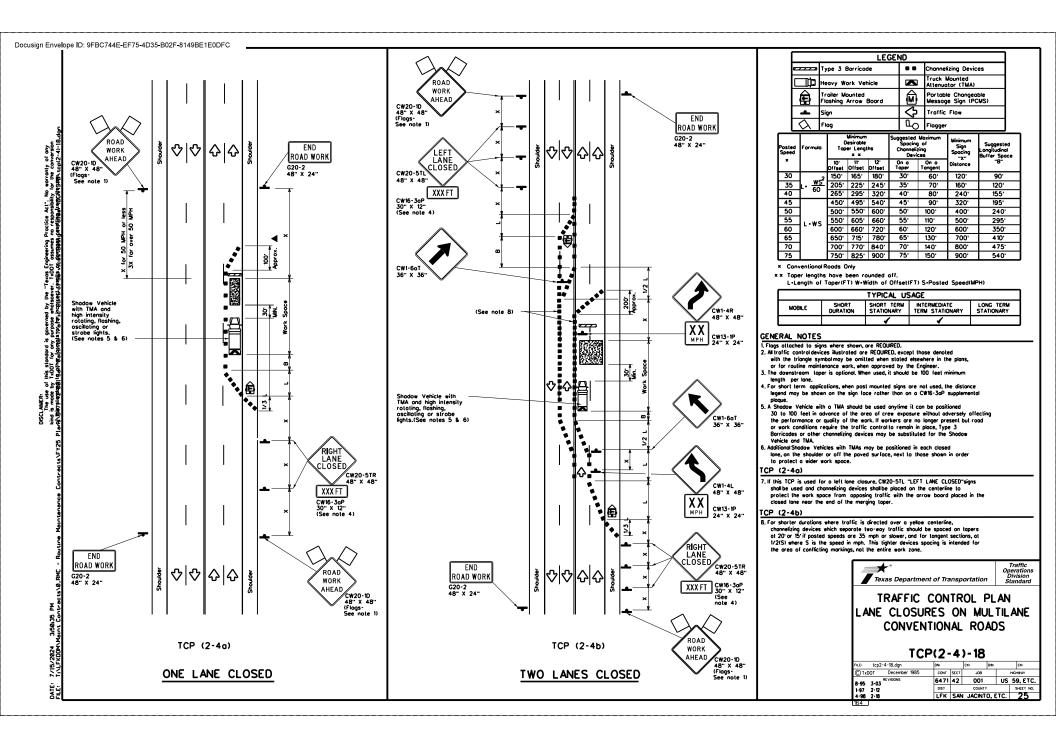


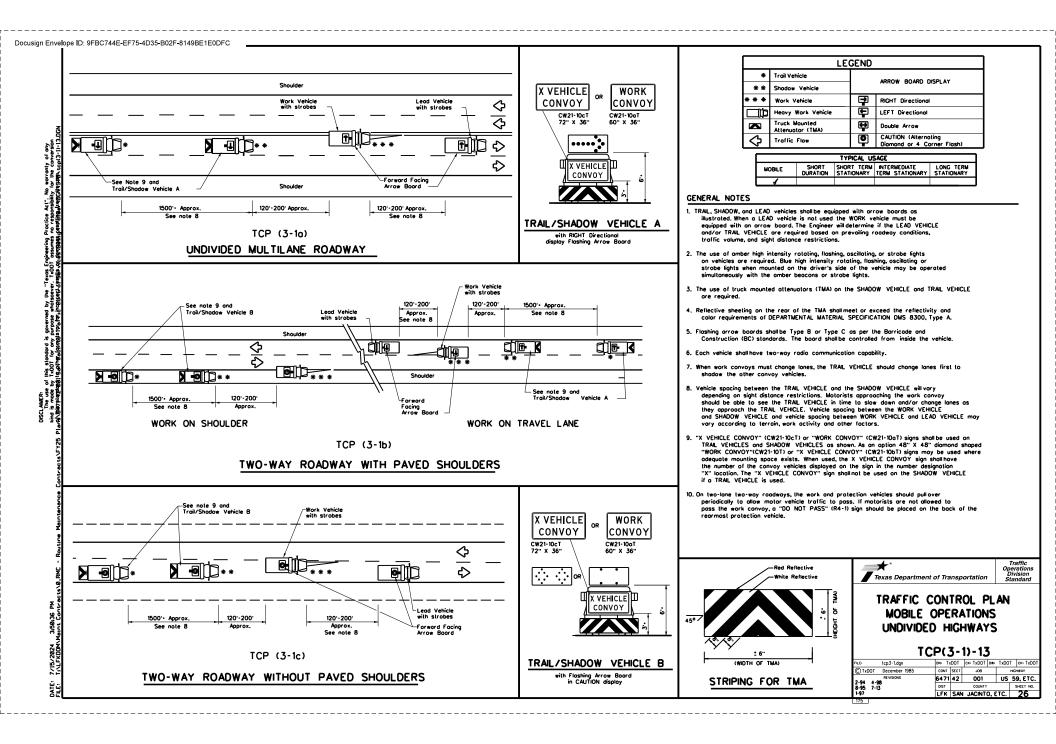


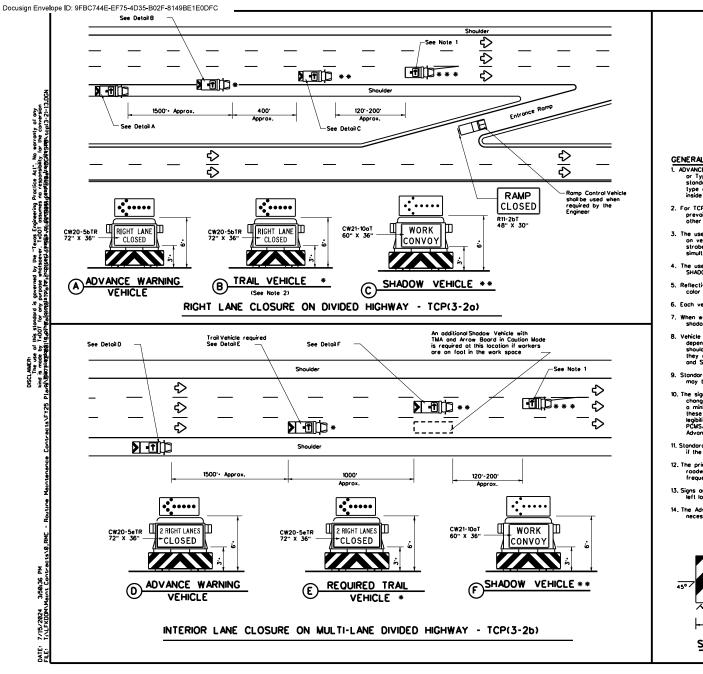




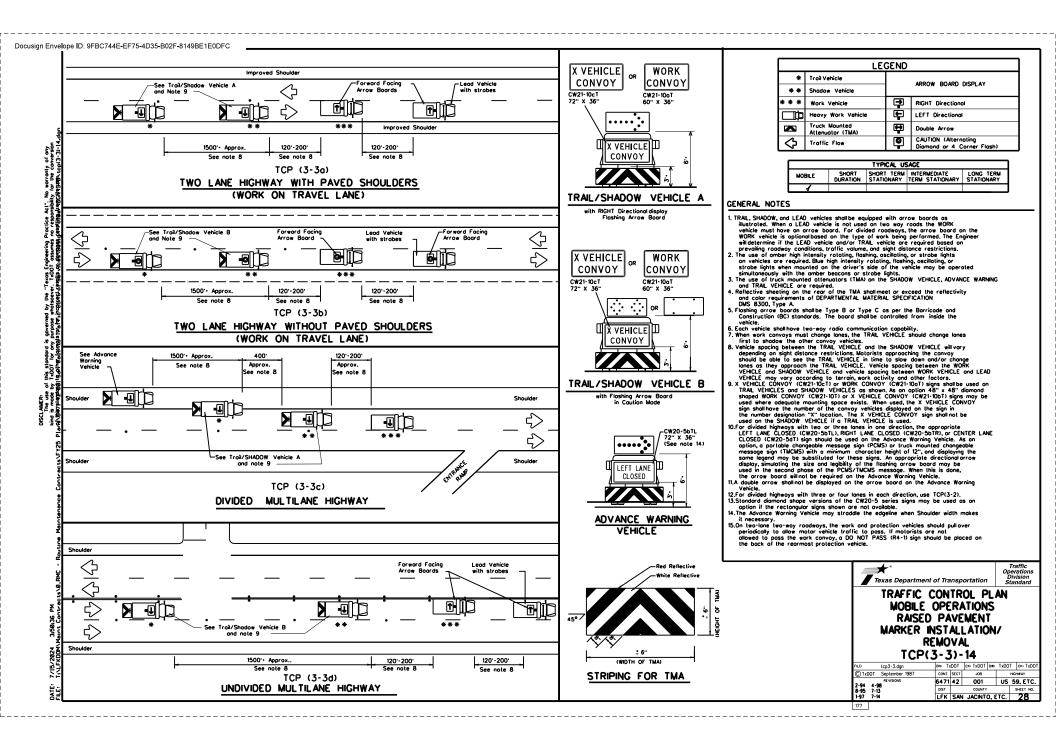


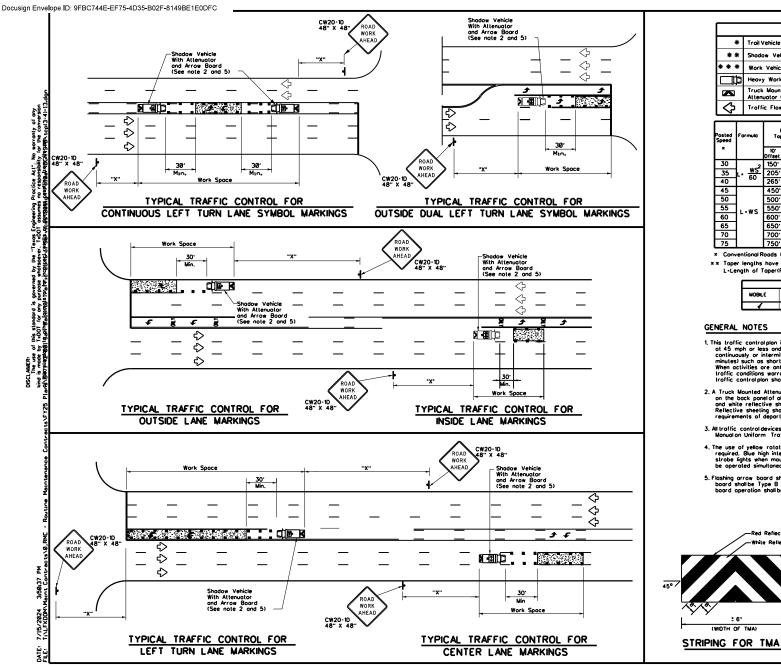


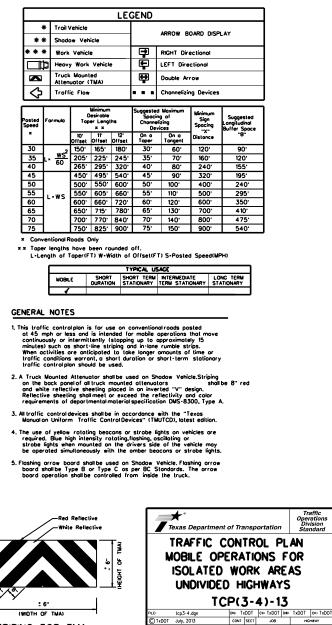




LEGEND													
	* Trail Vehicle												
	** Shadow V					ARROW BOARD DISPLAY							
	* * * Work V			ehicle		RIGHT Directional							
	Heovy 1			fork Vehicle		Ē	LEFT Directional	EFT Directional					
	Truck M			ounted or (TMA)		e e	Double Arrow	Arrow					
						Ō	CAUTION (Alternat						
I	<u> </u>	F I					Diamond or 4 Co	rner i	losi	<u> </u>	1		
			OBILE	SHORT		PICAL US		LON	IG T	FRM			
F				DURATION STA		RT TERM INTERMEDIATE LONG TERM TIONARY TERM STATIONARY STATIONARY			ARY				
L NOTES E WARING, TRAL and SHADOW vehicles shall be equipped with Type B pe C lashing arrow boards as per the Barricade and Construction (BC) ards. Arrow boards on WORK vehicles will be optional based on the of work being performed. The arrow boards shall be operated from the vehicle. P[3-2a) the Engineer will determine if the TRAL, VEHICLE is required based on													
P(3-20) the Engineer will determine if the TRAL_VEHCLE is required based on him groadway conditions, tradic volume, and sight distance restrictions. All vehicles shown for both TCP(3-20) and TCP(3-2b) are required.													
e of amber high intensity rotating, flashing, oscillating, or strobe lights hicles are required. Blue high intensity rotating, flashing, ascillating or e lights when mounted on the driver's side of the vehicle may be operated aneously with the amber beacons or strobe lights.													
e of truck mounted attenuators (TMA) on the ADVANCE WARNING, DW, and TRAIL, vehicles are required.													
ive sheeting on the rear of the TMA shall meet or exceed the reflectivity and requirements of DMS 8300, Type A													
ehicle shall have two-way radio communication capability.													
rork convoys must change lanes, the TRAL VEHICLE should change lanes first to w the other convoy vehicles.													
spacing between the TRAIL VEHICLE and the SHADOW VEHICLE will vary naing an sight distance restrictions. Matorists approaching the work convoy d be able to see the TRAIL VEHICLE in time to slow down and/or change lanes as approach the TRAIL VEHICLE. Vehicle spacing between the WORK VEHICLE SHADOW VEHICLE may vary according to terrain, work activity and other factors.													
rd 48" X 48" diamond shaped warning signs with the same message as those shown be used where adequate mounting space exists.													
ans shown should be used on the Advance Warning Vehicle. As an option, a portable geoble message sign (FCMS) or a truck mounted changeoble message sign (TMCMS) with imum character height of 12°, and displaying the same legend may be substitued for signs. An appropriate directionatorrow display, simulating the size and tilly of the flashing arrow board, must be used in the second phase of the VTMCMS message. When this is done, the arrow board will not be required on the new Worning Vehicle.													
d diamond shape versions of the CW20-5 series signs may be used as an option rectangular signs shawn are not available.													
inciples on this sheet may be used to close lanes from the left side of the way considering the number of lanes, shoulder width, sight distance, and ramp ency.													
and flashing arrow board modes shallbe appropriately altered when implementing ane closures or interior closures which close the left lanes.													
lvonce Warning Vehicle may straddle the edgeline when shoulder width makes it ssory.													
Red Reflective						* *					0	Traffic perations Division	
While Reflective												Standard	
× ~ • ·	TRAFFIC CONTROL PLAN MOBILE OPERATIONS DIVIDED HIGHWAYS												
	:									2)-1.		T	
	о нто						December 1985	CONT	SECT	JOB		DT CK: TxDOT HIGHWAY	
5TRIPIN	FOR TM		<u>م</u>	<u>`</u>		REVISIONS 8	6471 42 DIST		001 COUNTY	US	59, ETC. SHEET NO.		
						8-95 7-13 1-97	,		SAN	JACINTO	D. ETC.	27	





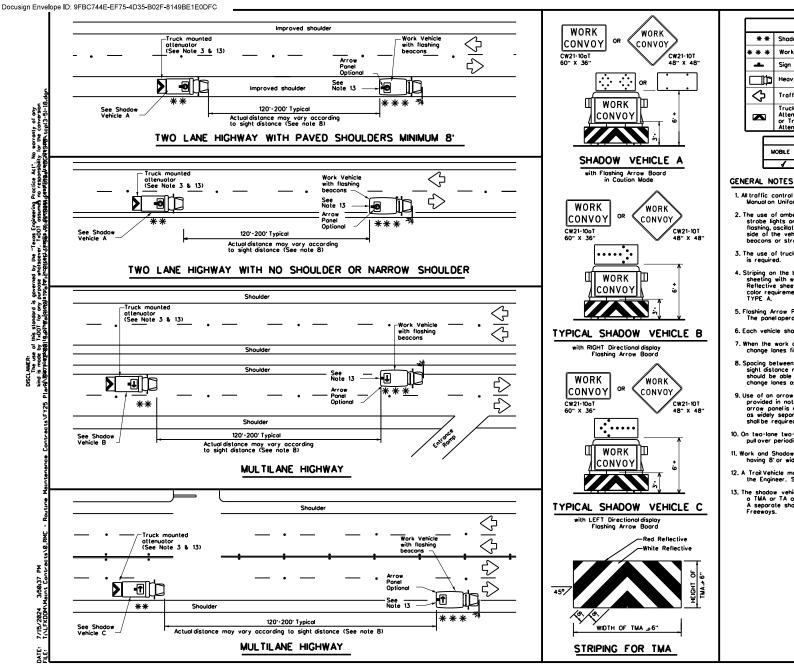


6471 42 001 US 59, ETC.

29

COUNTY LFK SAN JACINTO, ETC.

DIST

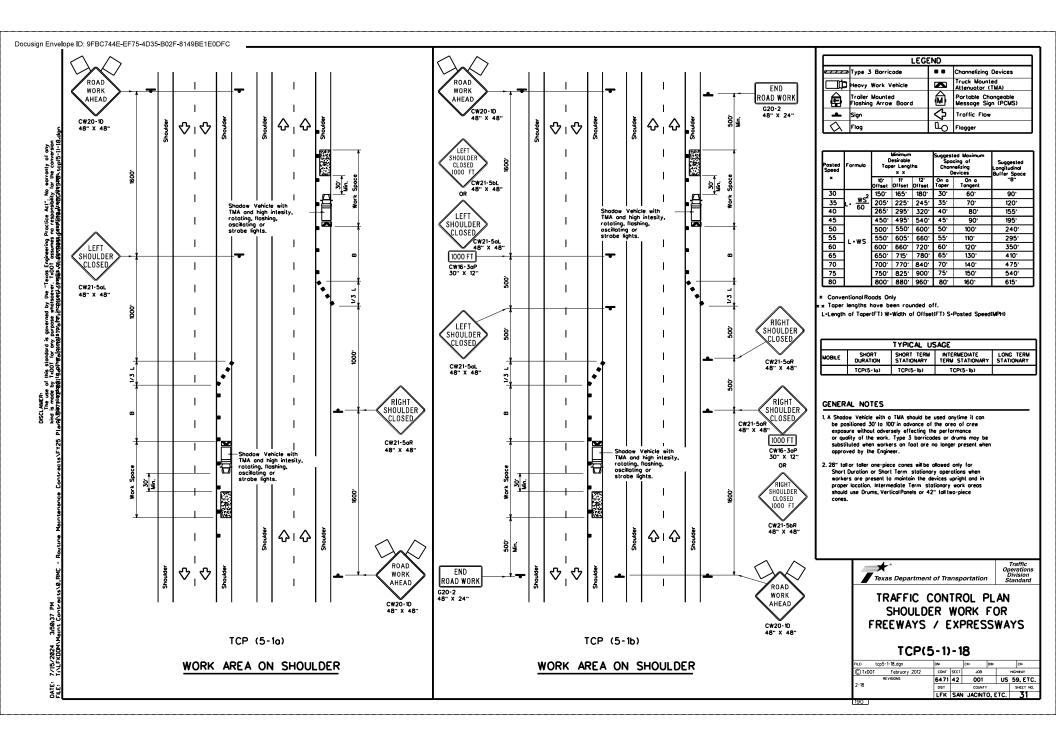


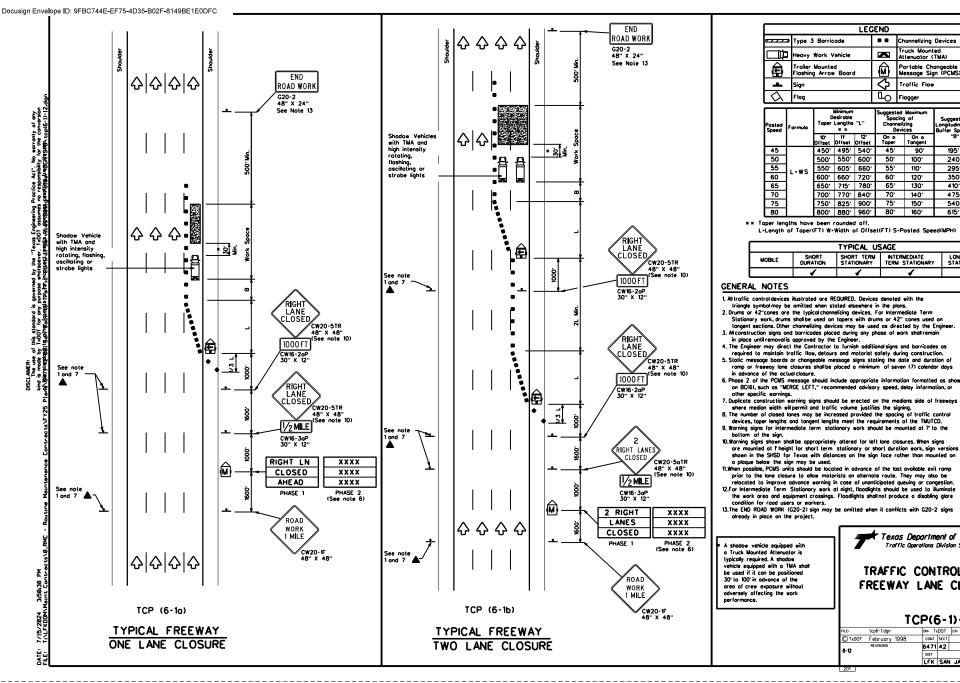
LEGEND Shodow Vehicle ARROW BOARD DISPLAY Work Vehicle € RIGHT Directional Sign Ð LEFT Directiona Heavy Work Vehicle ÷ Traffic Flow Double Arrow Truck Mounted Attenuator (TMA) or Trailer Attenuator (TA) CAUTION (Alternating 0 Diamond or 4 Corner Flash) TYPICAL USAGE SHORT TERM INTERMEDIATE STATIONARY TERM STATIONARY MOBILE SHORT LONG TERM STATIONARY All traffic control devices shall be in accordance with the "Texas Manual on Uniform Traffic Control Devices" (TMUTCD), latest edition. 2. The use of amber high intensity rotating, flashing, ascillating, ar strobe lights on vehicles are required. Blue high intensity rotating, flashing, ascillating ostrobe lights when mounted on the driver's side of the vehicle may be operated simultaneously with the amber beccons or strobe lights. The use of truck mounted attenuators (TMA) on the Shadow Vehicle is required. 4. Striping on the back panel of all TMAs shall be 8" red reflective sheeting with while background, placed in an inverted "V" design. Reflective sheeting shall meet or exceed the reflectivity and color requirements of DEPARTMENTAL MATERIAL SPECIFICATION DWS-8300, TYPE A.

- Flashing Arrow Panels shall be Type B or Type C as per BC Standards. The panel operation shall be controlled from inside the vehicle.
- 6. Each vehicle shall have two-way radio communication capability.
- 7. When the work convoy must change lanes, the Shadow Vehicle should change lanes first to protect the Work Vehicle.
- 8. Spacing between Shadow and Work Vehicle will vary depending on sight distance restrictions. Motorists approaching the work convoy should be able to see the Shadow Vehicle in time to slow down and/or change lanes as they approach the Work Convoy.
- 9. Use of an arrow panelon the Work Vehicle is optional except as provided in note 13, but may be required by the Engineer. If an arrow panelis not used, dual flashing beacons, mounted as high and as widely separated as practicable at the rear of the Work Vehicle shalb erequired.
- 10. On two-lane two-way roadways, the Work and Shadow Vehicles should pull over periodically to allow motor vehicle traffic to pass.
- 11. Work and Shadow Vehicles should stay on the shoulder of highways having 8' or wider shoulders when possible.
- A Trail Vehicle may be added to the operation when approved by the Engineer. See TCP(3) series standards.

13. The shadow vehicle may be omitted on conventional roadways when a TMA or TA and arrow panelis mounted to the herbicide vehicle. A separate shadow vehicle will be required on expressways and Freeways.







LEGEND								
Type 3 Borricode						Channelizing	lizing Devices	
] Неочу	Work \	/ehicle			Truck Mounted Attenuator (TMA)		
Ê		Mounte Ig Arron		d		Portable C Message S	nangeable gn (PCMS)	
-	Sign				$\overline{\diamond}$	Traffic Flo		
\Diamond	Flog				ц	Flogger		
Posted Speed	Formula	0	Minimum Lengths X X Offset		Spo		Suggested Longitudinal Buffer Space "8"	
45		450	495	540'	45	90.	195	
50	1	500'	550'	600.	50'	100'	240'	
55	1	550 [.]	605	660'	55'	110'	295'	
60	1	600'	660'	720'	60 [.]	120'	350 [.]	
65]	650'	715	780'	65 [.]	130	4 10'	
70	1	700'	770'	840'	70'	140'	475'	
75]	750'	825	900'	75'	150'	540 [.]	
80	1	800'	880	960'	80.	160'	615'	

× × Toper lengths have been rounded off.

L-Length of Taper(FT) W-Width of Offset(FT) S-Posted Speed(MPH)

	TYPICAL USAGE							
MOBILE	SHORT DURATION	SHORT TERM STATIONARY	INTERMEDIATE TERM STATIONARY	LONG TERM STATIONARY				
	 Image: A set of the set of the	 ✓ 	<					

1. All traffic control devices illustrated are REQUIRED. Devices denoted with the

- triangle symbol may be amitted when stated elsewhere in the plans. Drums or 42"cones are the typical channelizing devices. For intermediate Term Stationary work, drums shall be used on topers with drums or 42" cones used on
- tangent sections. Other channelsing devices may be used as directed by the Engineer 3. All construction signs and borricades placed during any phase of work shall remain

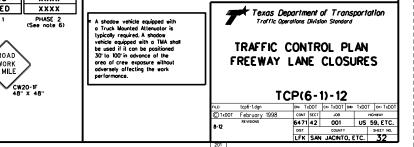
ArcConstruction signs and corricoles placed during any proce of work shorteman in place until removals approved by the Chingher.
 The Engineer may direct the Contractor to furkish additional signs and borricoles as required to maintain traffic flow, delows and motorist sofely during construction.
 Stolic message boards or changeable message signs stating the date and durotion of ramo or treewy time closures shafts placed a minimum of seven (7) closuror doord or promo or treewy time closures shafts placed a minimum of seven (7) closuror doord on ys

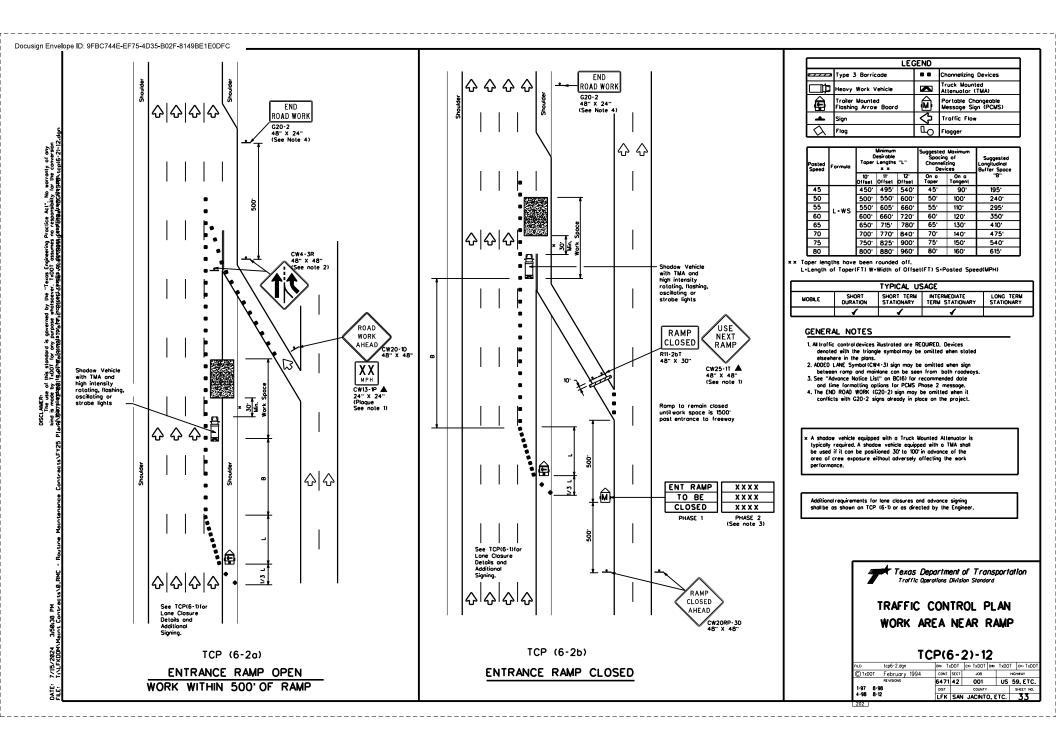
- in advance of the visua course. 6. Phase 2 of the PCMS message should include appropriate information formatted as shown on BC(6), such as "WERGE LEFT," recommended advisory speed, delay information, or

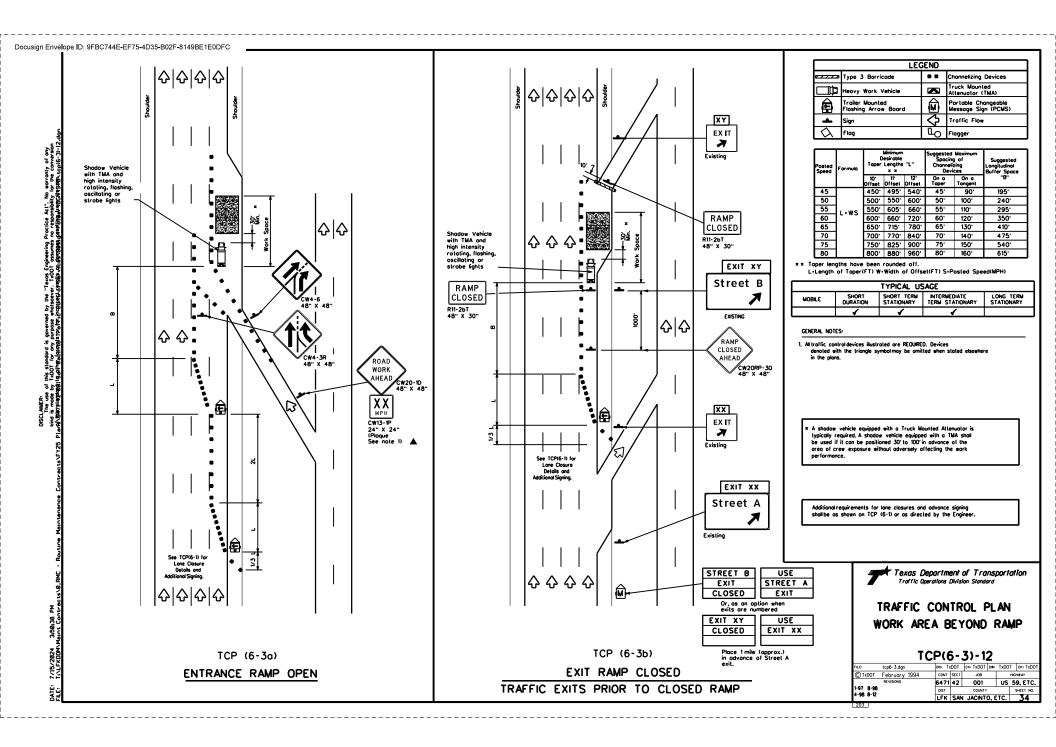
- 10.Warning signs shown shall be appropriately altered for left lane closures. When signs are mounted at Theight for short term stationary or short duration work, sign versions shown in the SHSD for Texas with distances on the sign face rather than mounted on
- a plaque below the sign may be used. 11.When possible, PCMS units should be located in advance of the lost available exit ramp prior to the lane closure to allow motorists an alternate route. They may also be
- relocated to improve advance warning in case of unanticipated queuing or congestion. 12.For Intermediate Term Stationary work at night, floadights should be used to illuminate the work area and equipment crossings. Floadights sholl not produce a disabiling glare

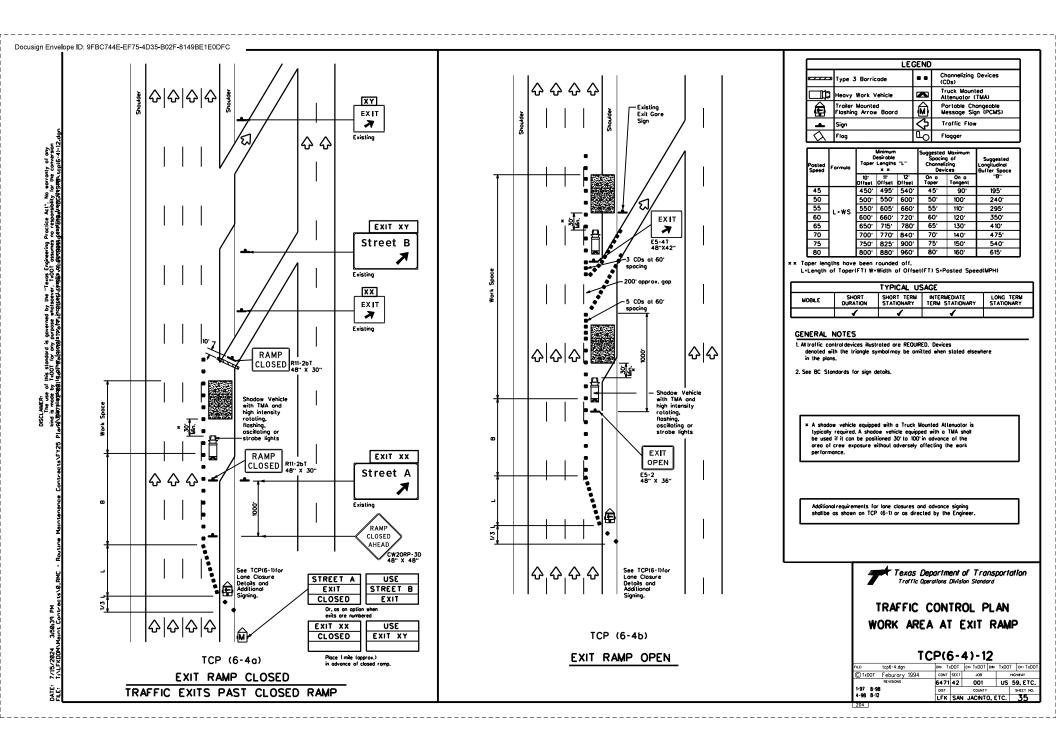
condition for road users or workers. 13. The END ROAD WORK (G20-2) sign may be omitted when it conflicts with G20-2 signs

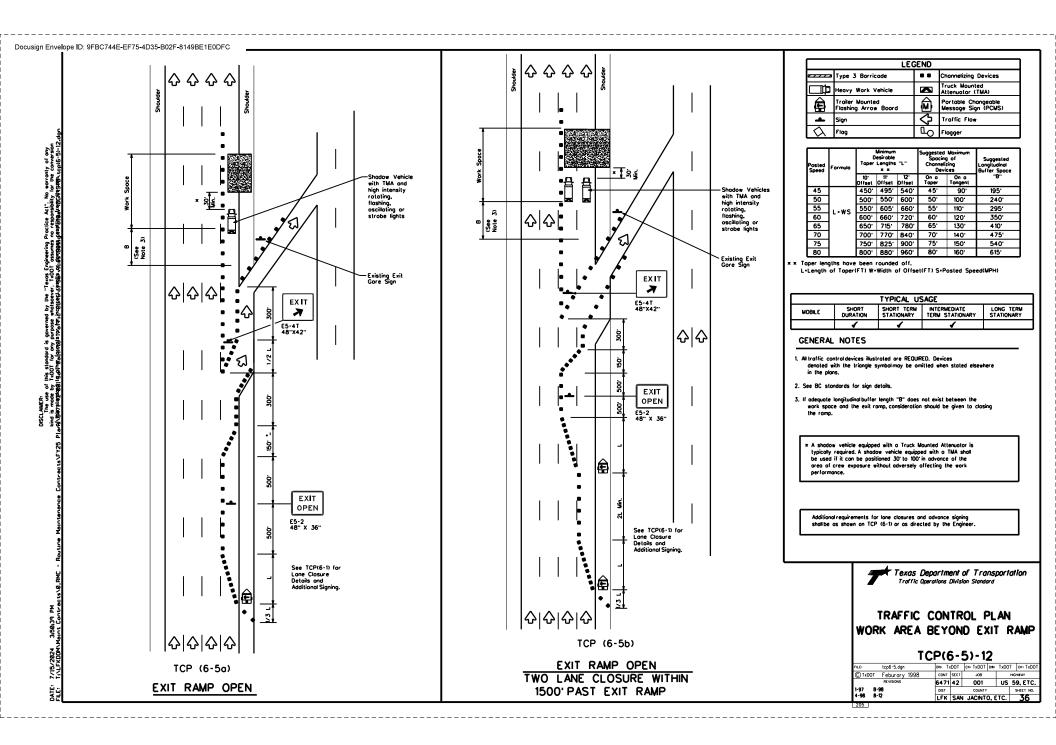
already in place on the project.

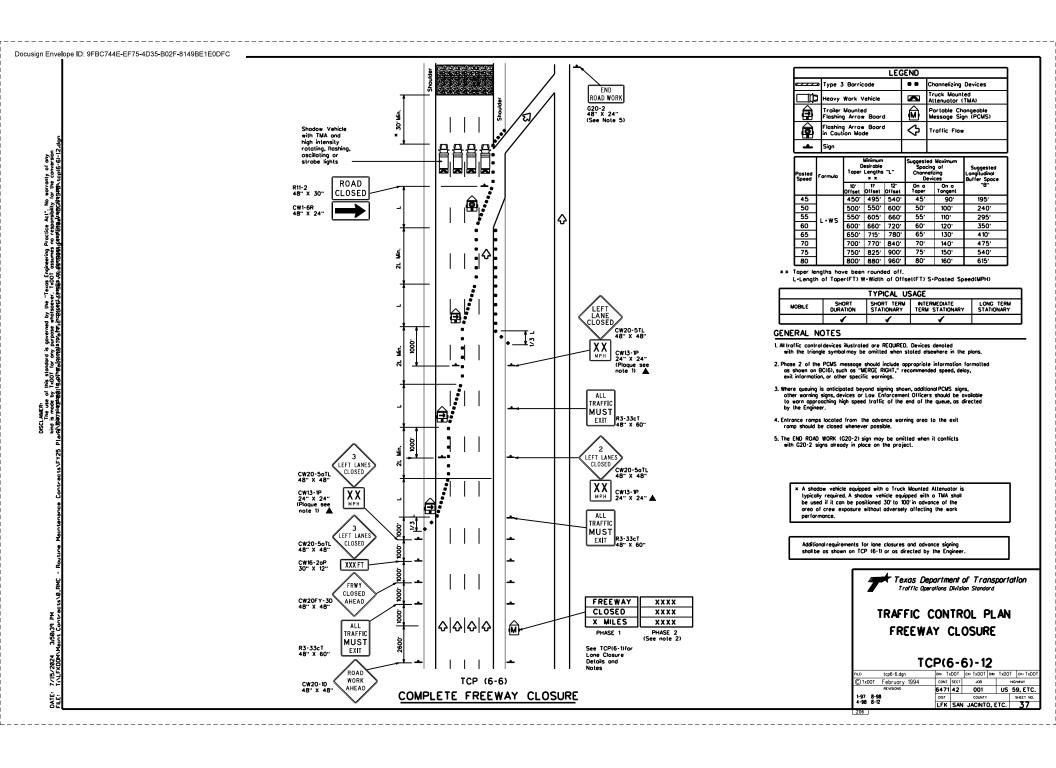


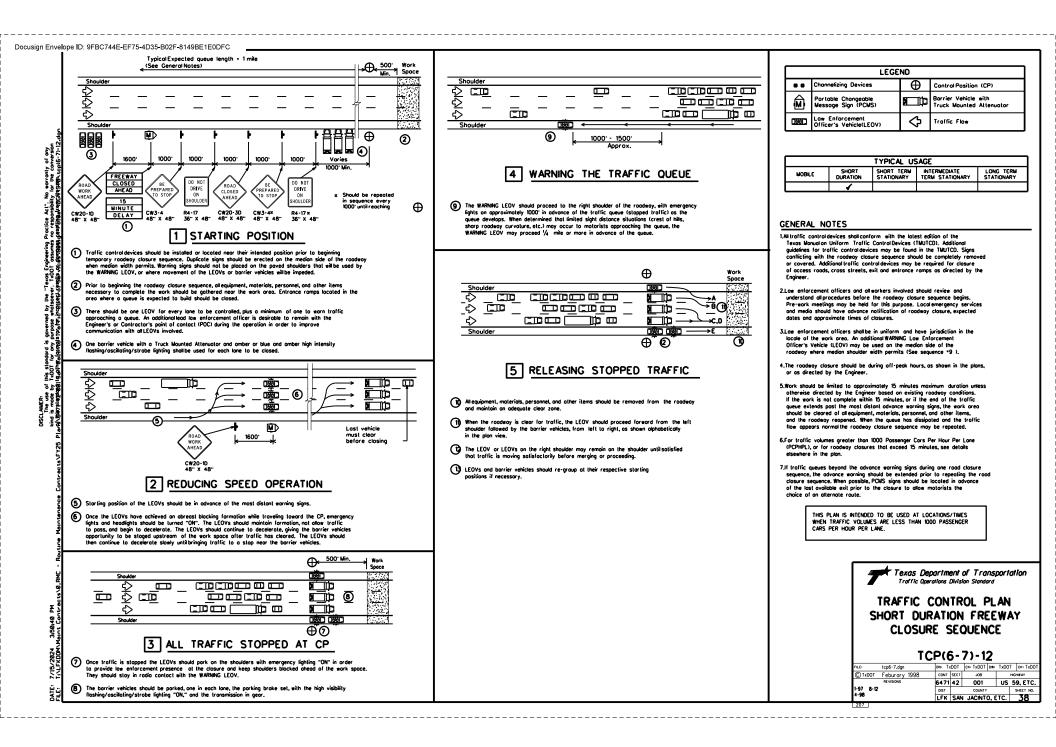


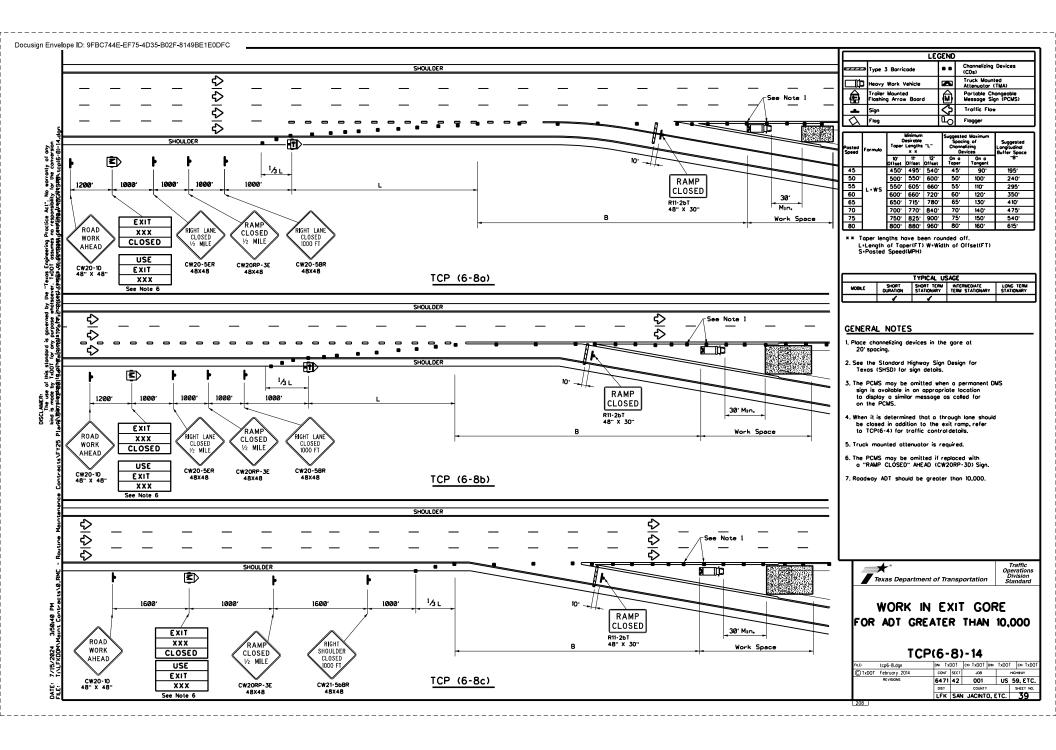


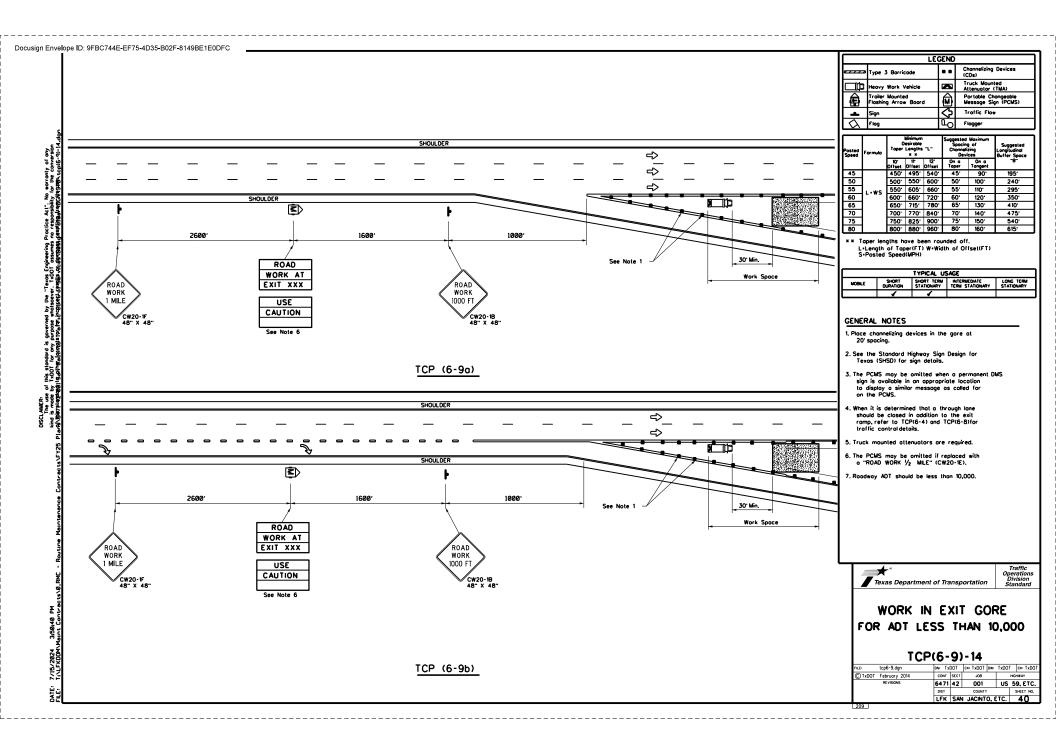


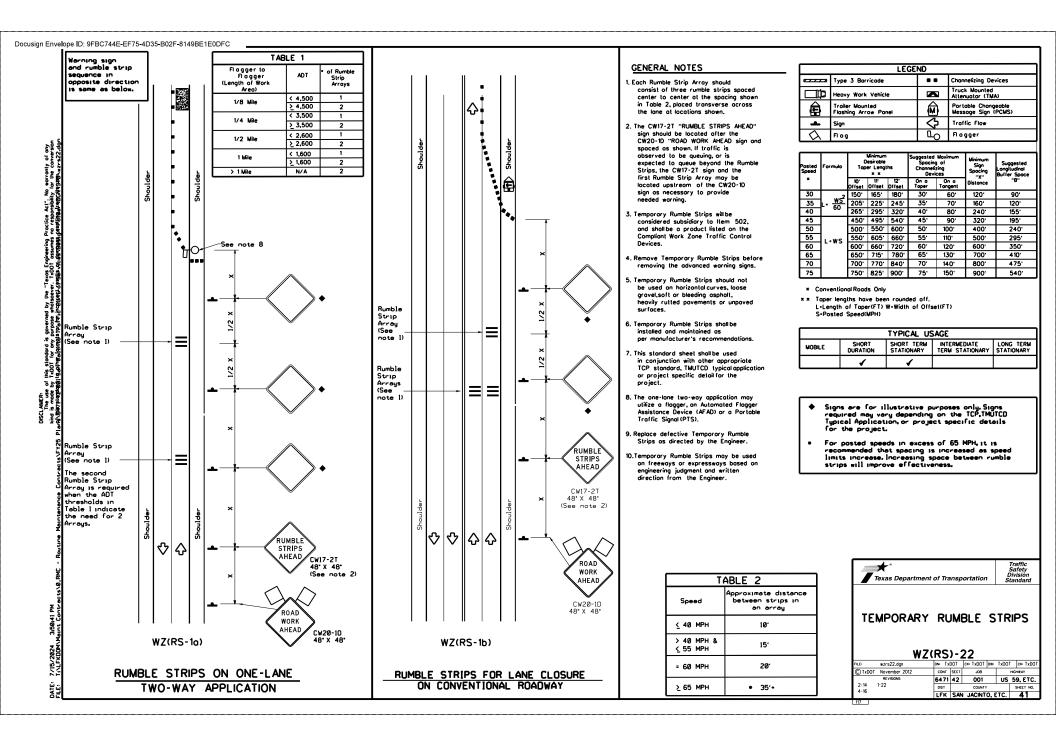


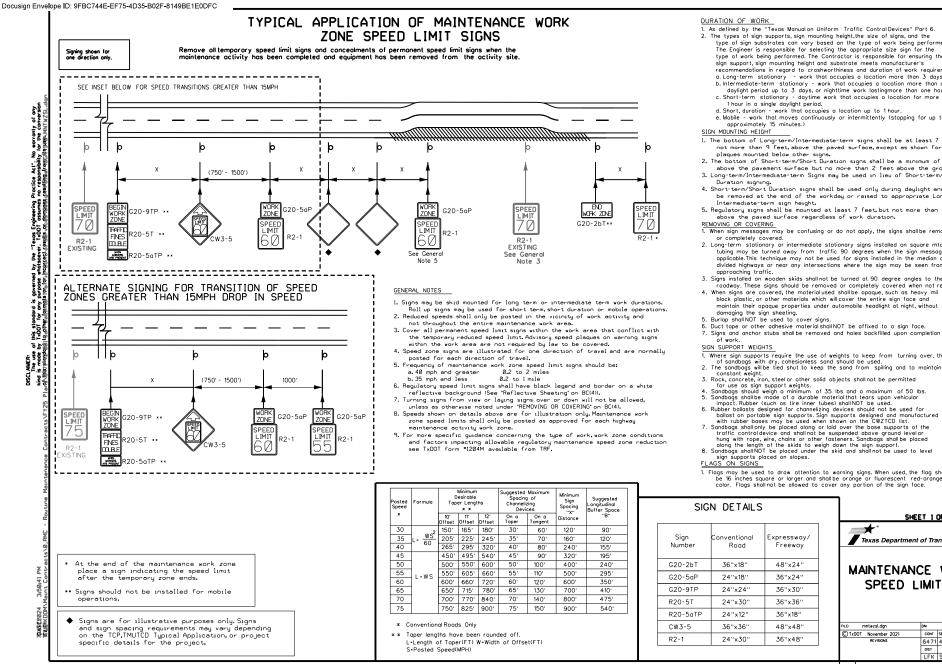










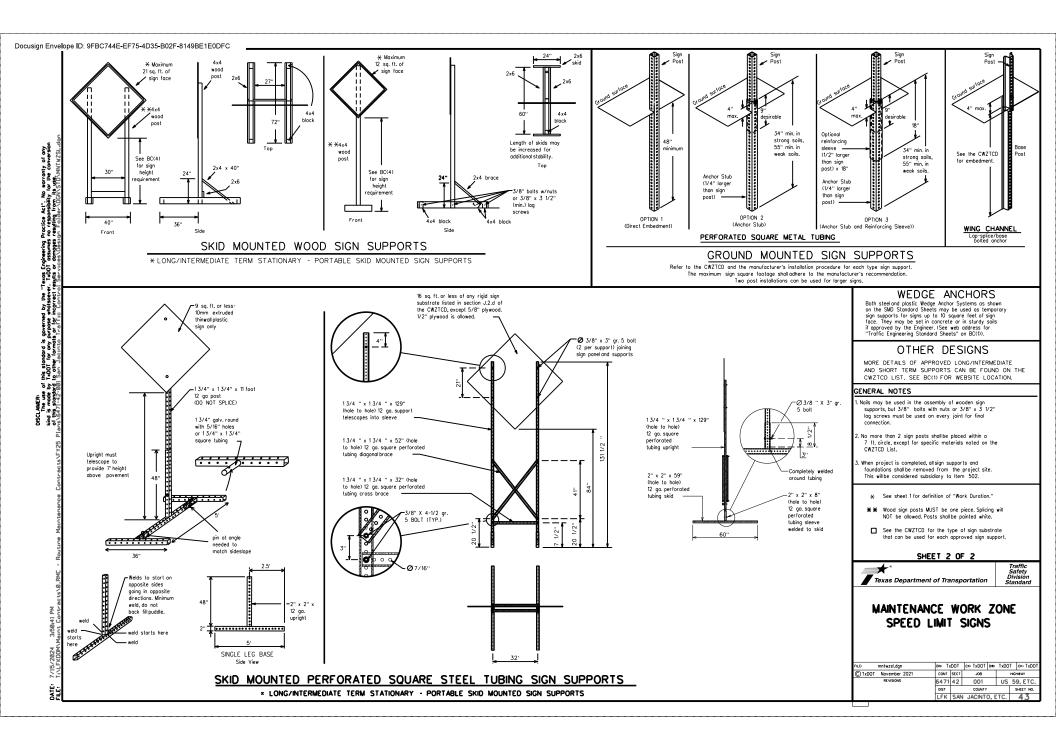


type of sign substrates can vary based on the type of work being performed. The Engineer is responsible for selecting the appropriate size sign for the

- type of work being performed. The Contractor is responsible for ensuring the sign support, sign mounting height and substrate meets manufacturer's recommendations in regard to crashworthiness and duration of work requirements a. Long-term stationary - work that occupies a location more than 3 days. b. Intermediate-term stationary - work that occupies a location more than one daylight period up to 3 days, or nighttime work lastingmore than one hour.
- c. Short-term stationary daytime work that occupies a location for more than 1 hour in a single daylight period.
- d. Short, duration work that occupies a location up to 1 hour.
- e. Mobile work that moves continuously or intermittently (stopping for up to approximately 15 minutes.)
- 1. The bottom of Long-term/Intermediate-term signs shall be at least 7 feet, but not more than 9 feet, above the paved surface, except as shown for supplemental plaques mounted below other signs.
- The bottom of Short-term/Short Duration signs shall be a minimum of 1 foot. above the pavement surface but no more than 2 feet above the ground.
- 3. Long-term/Intermediate-term Signs may be used in lieu of Short-term/Short Duration signing. 4. Short-term/Short Duration signs shall be used only during daylight and shall
- be removed at the end of the workday or raised to appropriate Long-term/ Intermediate-term sign height,
- 5. Regulatory signs shall be mounted at least 7 feet, but not more than 9 feet, above the paved surface regardless of work duration.
- When sign messages may be confusing or do not apply, the signs shall be removed
- Long-term stationary or intermediate stationary signs installed on square mtal tubing may be turned away from traffic 90 degrees when the sign message in not applicable. This technique may not be used for signs installed in the median of divided highways or near any intersections where the sign may be seen from
- Signs installed on wooden skids shall not be turned at 90 degree angles to the roadway. These signs should be removed or completely covered when not required.
- 4. When signs are covered the material used shall be opaque, such as heavy mil black plastic, or other materials which will cover the entire sign face and maintain their opaque properties under automobile headlight at night, without
- Duct tape or other adhesive material shall NOT be affixed to a sign face.
- 7. Signs and anchor stubs shall be removed and holes backfilled upon completion
- 1. Where sign supports require the use of weights to keep from turning over, the use of sandbags wilb teight dry, cohesionless sand should be used. 2. The sandbags wilb teight of shut to keep the sand from spilling and to maintain a constant weight. 3. Rock, concrete, iron, steel or other solid objects shall not be permitted

- 1. Flags may be used to draw attention to warning signs. When used, the flag shall be 16 inches square or larger and shall be orange or fluorescent red-orange in color. Flags shall not be allowed to cover any portion of the sign face.

SHEET 1 OF 2 Traffic Safety Division Standard * Texas Department of Transportation MAINTENANCE WORK ZONE SPEED LIMIT SIGNS mntwzsl.dan CK CONT SECT CTxDOT November 2021 JOB 6471 42 001 US 59, ETC DIST COUNTY SHEET NO. LEK SAN JACINTO ETC



Docusign Envelope ID: 9FBC744E-EF75-4D35-B02F-8149BE1E0DFC I. STORMWATER POLLUTION PREVENTION-CLEAN WATER ACT SECTION 402 TPDES TXR 150000: Stormwater Discharge Permit or Construction General Permit required for projects with 1 or more acres disturbed soil. Projects with any 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. 1. N/A Act". No worronly of ony onsibility for the conversion from disussee. No Action Required Required Action Action No. 1. The proposed work of this project is providing call-out temporary traffic control and flegging operations to assist routine maintenance activities within the Polk County and Scn Jacinto County Maintenance Sections. This activity maintains the original line and grade, hydraulic capacity and original purpose of the site. Therefore, this project meets the definition of a routine maintenance activity as defined in the TPDES General Proctice no respo Permit No. TXR150000 effective March 5, 2023 and TCEQ's TPDES CGP does not apply II. WORK IN OR NEAR STREAMS, WATERBODIES AND WETLANDS CLEAN WATER ACT SECTIONS 401 AND 404 USACE Permit required for filling, dredging, excavaling 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 Notionwide Permit 14 - PCN not Required (less than 1/10th acre waters or welonds offected) Notionwide Permit 14 - PCN Required (1/10 to <1/2 acre. 1/3 in tidal waters) 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. N/A 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 Triongulor Filter Dike Extended Detention Bosin Sodding Sond Bog Berm Constructed Wetlands Interceptor Swole Strow Bole Dike Wet Bosin Diversion Dike Brush Berms Erosion Control Compost Erosion Control Compost Erosion Control Compost Mulch Filler Berm and Socks 3/8/2024 Mulch Filler Berm and Socks Mulch Filter Berm and Socks Compost Filter Berm and Socks Compost Filter Berm and Socks Compost Filter Berm and Socks Vegetation Lined Ditches Stone Outlet Sediment Trops Sond Filter Systems Sediment Bosins Grossy Swoles

III. CULTURAL RESOURCES

Refer to TxDOT Standard Specifications in the event historicalissues or archeological artifacts are found during construction. Upon discovery of archeological artifacts (bones, burnt rock, fiint, poltery, etc.) coese work in the immediate area and contact the Engineer immediately.

No Action Required
Required Action

1. Historical markers, buildings, and property may be present within the project limits. Contractor to repair or repairce in kind, at lheir own expense, any historic materials domaged (buildings, historical markers, etc.) in the course of executing the work. Contractor is responsible for locating replacement source for historic materials domaged in the course of the work. TADD-T-Environment Alfors Division is to be informed of proposed repairs to facilitate consultation with Texas HistoricalCommission prior to execution of repairs.

IV. VEGETATION RESOURCES

Preserve notive vegetation to the exten: 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 landscoping, and tree/brush removal commitments.

No Action Required Required Action

Action No.

Portions of roadways within the Son Jacinto County Maintenance Section accurs within compartments of the Som Houston NationalForest (SHNF). Below are the following roadways and actions required:

- 1. FM 945 2. FM 1725 3. FM 2025 4. SH 150 5. FM 3081 6. FM 2666
- 7. FM 2693 8. FM 3018

A) Maintenance Section Supervisor shall notify the USFS-Sam Houston National Forest prior to commencing work on the above roadways.

V. FEDERAL LISTED, PROPOSED THREATENED, ENDANGERED SPECES, CRITICAL HABITAT, STATE LISTED SPECIES, CANDIDATE SPECIES AND MICRATORY BIRDS.

No Action Required Required Action

Action No.

 Texas trailing phlox (Federally-listed endangered species) habital is present within the ROW along FM 1276 in Palk County. The conservation measure below must be followed in order to be in compliance with the Endangered Species Act:

B) NO STOCKPILING MATERIALS or EQUIPMENT STORAGE allowed within the ROW and NO EQUIPMENT or VEHICLES shalleave the povement along FM 1276 from 5 miles South of US 190 to 7 miles South of US 190.

2. Red-cockaded Woodpecker (Federally-isted Endangered Species) habitat is present adjacent to the ROW along the following roadways in Son Jacinto County:

 FM 945: From FS 274 to 4.1 miles North of FS 274 and from FS 256 to 0.55 miles South of FS 256.

- FM 2025: From Lower Vann Rd. to 1 mile South of Lower Vann Rd.
- FM 2666: From FM 2025 to 1.2 miles East of FM 2025.
- FM 2693: From 2.6 miles East of the Walker County Line to 4.0 miles East of the Walker County Line.

C) NO STOCKPILING MATERIALS OR EQUIPMENT STORAGE is allowed within the ROW along the roadways limits above.

LIST OF ABBREVIATIONS

Best Monogement Proctice Construction General Permit SPCC SWP3: Soill Prevention Control and Countermeasure Storm Water Pollution Prevention Plan Texas Department of State Health Services PONt Pre-Construction Notification Federal Highway Administration Project Specific Locotion Memor andum of Aar eement TOEO Texas Commission on Environmental Quality Memorandum of Understanding TPDES Texos Pollutont Dischorge Elininotion Syste TPWD: Texos Porks and Widtife Deportment MO ME4: MBTA: NOT: Municipal Separate Stormwater Sewer System Migrotory Bird Treaty Act Notice of Termination TxDOT: Texos Department of Transportation T&E: Threatened and Endangered Species USACE: U.S. Army Corps of Engineers Notionwide Permit NO : USFWS: U.S. Fish and Wildlife Service Notice of Inten

VI. HAZARDOUS MATERIALS OR CONTAMINATION ISSUES

General (opplies to all projects):

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

Obtain and keep an-site Material Sofely Data Sheets (MSDS) for all hazardous products used on the project, which may include, but are not limited to the following categories: points, acids, solvents, sophall products, chemicaldadives, luels and concrete curing compaunds or additives. Provide protected storage, off bore ground and covered, for products which may be hazardous. Maintain product lowling as required by the Act.

Maintain an adequate supply of an-site spill response materials, as indicated in the MSDS. In the event of a spill, take actions to mitigate line spill as indicated in the MSDS, in accordance with sole evok practices, and contact the District Spill Coordinator immediately. The Contractor shall be responsible for the proper containment and clearup 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.
- Trosh piles, drums, conister, bori
 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)?

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

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

une	results	01	the	USUESIUS	inspection	positive	115	u
Г	Yes			No No				

If "Yes", then TxDOT must retain a DSHS licensed asbestas 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 obatement activities and/or demolition with coreful 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
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Action No.

1, N/A

VII. OTHER ENVIRONMENTAL ISSUES

Portions of FM 1276, FM 943, and FM 2610 in Polk County are within ar adjacent to Big Thicket National Preserve (BITH). Below are the following roadway limits within BITH and actions required:

FW 2610: From 0.25 mi. North of Menard Creek to 0.14 mi. South of Menard Creek.

FM 1276: From the intersection of FM 943 to 0.73 mi. North of intersection of FM 943, From 3.30 miles South of US 190 to 7.0 miles South of US 190.

-FW 943: From 0.37, mi. West of Menord Creek to 0.30 mi. Eost of Menord Creek inorm, 0.36 mi. Eost of Sagno Free Lone Are to 0.34 mi. Eost of Sagno Scutheost of FW 1276 intersection if From March Parcel Public 22 mi. Northwest of Hordin County Line if From, 0.31 mi. Southeost of Wiggins Loop Rd. to 2.01 mi. Southeost of Wiggins Loop Rd.

0

No Action Required

Texas Department of Transportation

Design Division

1. NO STOCKPILING MATERIALS or EQUIPMENT STORAGE within the ROW along the roadway limits provided above.



: epic.ogn	DN: IXL	101	CKIRG	DM: V	P	CKI AR
TxDOT: February 2015	CONT	SECT	JOB			HIGHWAY
REVISIONS -2011 (DS)	6471	42	001		US	59, ETC
7-14 ADDED NOTE SECTION IV.	DIST		COUNTY			SHEET NO.
3-2015 SECTION I (CHANGED ITEM 1122 TEM 506, ADDED GRASSY SWALES.	LFK	SAN	JACINT	0, E	TC.	44

