

Project Number: RMC 6409-07-001

Control: 6409-07-001

County: Angelina, etc. Highway: US 59, etc.

# GENERAL NOTES:

This Maintenance Contract is to provide callout work for the Installation of Raised Pavement Markers at locations throughout the Lufkin District, which consists of the following nine counties: Angelina, Houston, Nacogdoches, Polk, Sabine, San Augustine, San Jacinto, Shelby and Trinity.

Commence work within 72 hours of receiving a work order unless otherwise approved. Failure to commence work within the specified time period or to work continuously until the work order has been completed will be cause to declare the contract in default. Exception from declaring default will be if the Contractor has obtained written permission from the Engineer prior to leaving the project. In the event that all contract funds or 365 calendar days have been expended, the contract will be considered complete.

An initial list of highways will be provided at the pre-construction meeting. Perform this work continuously and provide proper equipment and labor capable of placing a minimum of 1,500 markers in a day. Complete the initial list prior to leaving. After the initial list has been completed, a new list of locations will be provided on an as needed basis with a minimum of 10,000 markers to be placed.

All work shall meet the minimum requirements of this contract for a day and night inspection.

In high traffic volume areas, work will not be allowed to begin before 9 A.M. and continued after 4 P.M., unless otherwise approved. In other areas, beginning and ending work times will be as directed or approved.

Work will not be permitted on US 59 on Fridays after 12:00 noon.

Use approved safety and personal protection equipment (PPE) as directed. Non-compliance with the Safety, Qualification and Certification requirements will be grounds for suspension of work.

Dispose of product packaging containers and splattered/caked on bituminous material in accordance with Federal and State regulations. Do not leave bituminous material removed from Contractor's equipment on roadway. Secure all used material packaging, old raised pavement markers and new materials on utility trailers and haul trucks (TMA's) at all times.

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

Seth Franks Seth.Franks@txdot.gov Don Maddux Donald.Maddux@txdot.gov

Contractor questions will be accepted through email, phone, and in person by the above individuals

All contractor questions will be reviewed by the Engineer. Once a response is developed, it will be posted to TxDOT's Public FTP at the following Address:

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https://ftp.dot.state.tx.us/pub/txdot-info/Pre-Letting Responses/ All questions submitted that generate a response will be posted through this site. The site is organized by District, Project Type (Construction or Maintenance), Letting Date, CCSJ/Project Name.

### Item 4: Scope of Work

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 of time not to exceed the original Contract time 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 must 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 on the time needed to re-let and award a new Contract if no extension is agreed upon.

#### Item 7: Legal Relations and Responsibilities

The proposed work of this project is to Install Raised Pavement Markers. This activity maintains the original line and grade, hydraulic capacity and original purpose of the site. Therefore, this project meets the definition of a routine maintenance activity as defined in the TPDES General Permit No. TXR150000 issued March 5, 2018 and TCEQ's TPDES CGP does not apply.

There are several federally listed threatened and endangered species within the Lufkin District. Consultation with the United States Fish and Wildlife Service has not been conducted with regard to these species. NO EQUIPMENT or VEHICLES shall leave the pavement and NO STOCKPILING or EQUIPMENT STORAGE shall be allowed along the following roadways without prior approval from the Engineer:

Angelina County SH 63

Houston County SH 7, FM 227, FM 1733, FM 2781, FM 230 Nacogdoches County SH 21 Polk County FM 1276 Sabine County SH 87, SH 21, FM 2343, FM 2426 San Augustine County SH 21, SH 103, SH 147, FM 1992, FM 3483, FM 353 San Jacinto County

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FM 2693, FM 1725, FM 945, FM 2025, FM 2666 Shelby County

FM 2261, FM 3184 <u>Trinity County</u> SH 94, FM 2262, FM 357

"In order to maintain compliance with Chapter 64 of the Texas Parks and Wildlife Code and Migratory Bird Treaty Act (MBTA, construction activities that may affect nests (i.e. tree removal, tree limbing, bridge work) shall be conducted outside of the nesting season (March 15 to September15). In the event bird or active nests (eggs and/or nestlings present) are encountered, contact the engineer prior to conducting work."

No significant traffic generator events identified.

## Item 8: Prosecution and Progress

This Contract includes callout work; the number of working days will be established in each work order. For this project, working days will be computed and charged in accordance with Section 8.3.1.5., "Calendar 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.

# Item 502: Barricades, Signs, and Traffic Handling

# Traffic Control Plan (TCP):

Furnish and maintain all warning signs, flaggers, channelizing devices, etc. required for Traffic Control on this project in accordance with Item 502, except for measurement and payment. This work will not be paid for directly but will be subsidiary to pertinent items.

Follow Traffic Control Plan in accordance with the most current versions of TCP (3-3) and TCP (3-4). A shadow vehicle and lead vehicle will be required for all roadways. An arrow board will be required on the lead vehicle.

Plan the sequence of work to minimize inconvenience to the traveling public.

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.

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

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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.

Blue warning lights should only be used while performing work on or near the travel lanes or shoulder where the traveling public may encounter workers that are not protected by a standard work zone set up such as a lane closure, shoulder closure, or one-way traffic control.

#### Item 506: Temporary Erosion, Sedimentation, and Environmental Controls

Due to the limited soil disturbing nature of this project, temporary erosion control work has not been included. However, the SWP3 for this project shall consist of any erosion control or pollution control items deemed necessary by the Engineer. Should this work become necessary, it will be paid for in accordance with Article 4.4, "Changes in the Work".

# Item 672: Raised Pavement Markers

All existing raised pavement markers shall be removed from roadways, unless otherwise directed by the Engineer. Surface damage or voids resulting from the removal of existing markers shall be repaired with an approved patching material. Where supplemental markers exist, these will be removed and replaced with vehicle positioning guides only. Removal will not be paid for directly but will be considered subsidiary to Item 672.

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.

Unless otherwise directed, establish pavement marking guides to mark the lateral location of RPM's. These guides shall be approved prior to placing permanent RPM's. Do not make permanent marks on the roadway for the guides.

Unless otherwise approved or directed, acceptable placement deviations will follow the proper alignment with the guides without deviating from the alignment more than 1 in. per 200 ft. of roadway or more than 2 in. maximum, as outlined under Article 666.4., "Construction".

Unless otherwise directed by the Engineer, raised pavement markers shall be installed as vehicle positioning guides only.

## Item 6185: Truck Mounted Attenuator (TMA)

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, TMA's shall be paid for under Item 6185, "Truck Mounted Attenuator (Mobile Operation)".

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Three (3) TMAs will be required on all divided highways for mobile operations and two (2) TMAs will be required on all other roadways for each mobile operation. 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.

General Notes



# Estimate & Quantity Sheet

COUNTY Angelina

timent controlLING PROJECT ID 6409-07-001 DISTRICT Lufkin HIGHWAY US0059

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ALT	BID CODE	DESCRIPTION	UNIT	EST.	EST. FINAL		
	500-6033	MOBILIZATION (CALLOUT)	EA	4.000		4.000	
	672-6007	REFL PAV MRKR TY I-C	EA	5,000.000		5,000.000	
	672-6009	REFL PAV MRKR TY II-A-A	EA	65,000.000		65,000.000	
	672-6010	REFL PAV MRKR TY II-C-R	EA	8,000.000		8,000.000	
	6185-6005	TMA (MOBILE OPERATION)	DAY	80.000		80.000	

TxDOTCONNECT

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DISTRICT	COUNTY	CCSJ	SHEET
Lufkin	Angelina	6409-07-001	3

# 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 requirement shown in the "Texas Manual on Uniform Traffic Control Devices" (TMUTCD). 1. et s The development and design of the Traffic Control Plan (TCP) is the responsibility of the Engineer. 2. 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. 3. 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. 4. 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 IxDOT "Roadway Design Manual" or engineering judgment. 5. When projects abut, the Engineer(s) may amit 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 an 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. 6. 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. 7. 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. 8. 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. 9. Where highway construction or maintenance work is being undertaken, other than mobile operations as defined by the Texas Monual 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 XONE TRAFFIC FINES DOUBLE sign with Diaque shall be erected in advance of the CSJ limits. The BECIN ROAD WORK NEXT X MILES, CONTRACTOR and END ROAD WORK signs shall be erected at or near the CSJ limits. For mobile operations, CSJ limit signs are not required. 10. 2022 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 passible, or located behind a barrier or guardrail, or as approved by the Engineer. Mag 3:48:03 5/24/2022 TENFERDE

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#### WORKER SAFETY NOTES:

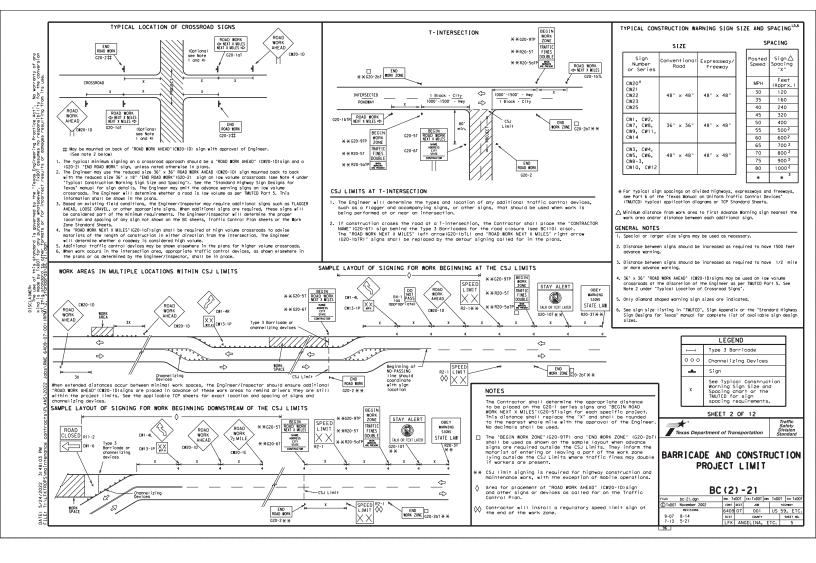
- 1. Workers on foot who are exposed to traffic or to construction equipment within the right-of-way shall wear high-visibility safety apparel meeting the requirements of ISEA "American National Standard for High-Visibility Apparel," or equivalent revisions, and labeled as ANSI 107-2004 standard performance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

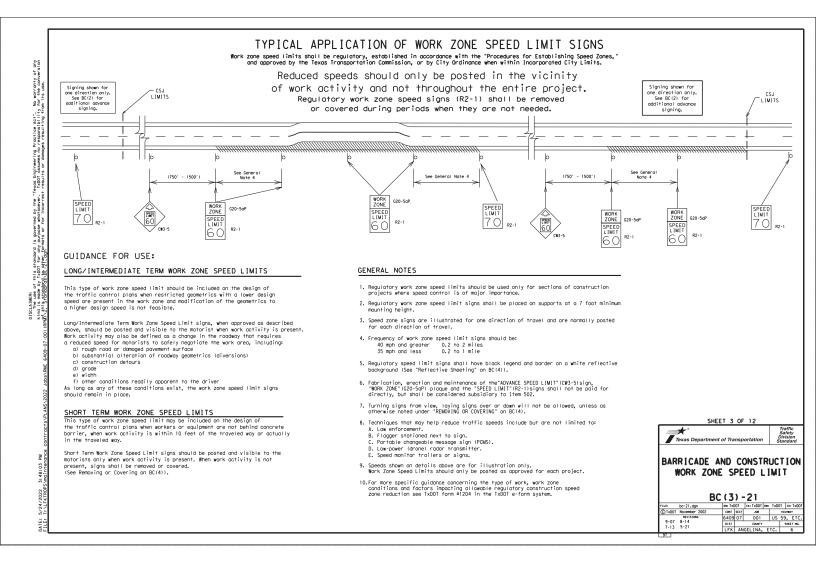
# COMPLIANT WORKZONE TRAFFIC CONTROL DEVICES

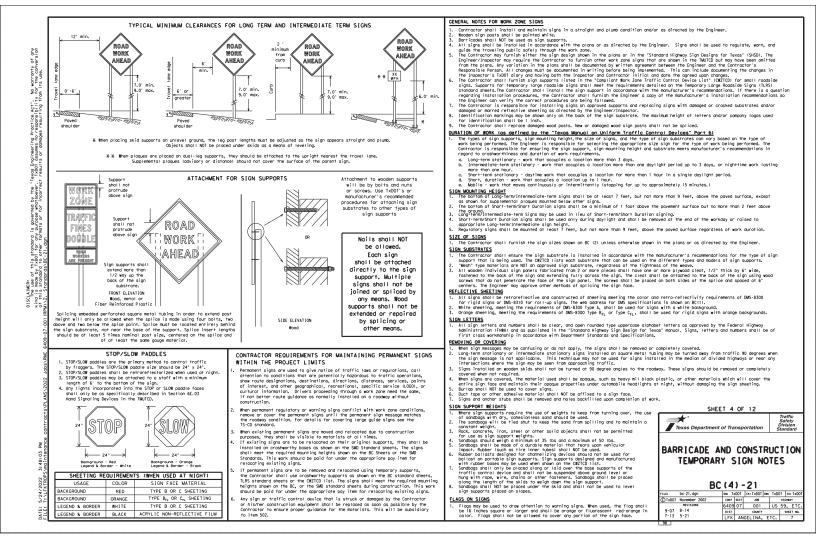
- Only pre-qualified products shall be used. The "Compliant Work Zone Traffic Control Devices List" (CWZTCD) describes pre-qualified products and their sources.
- 2. Work zone traffic control devices shall be compliant with the Manual for Assessing safety Hardware (MASH).

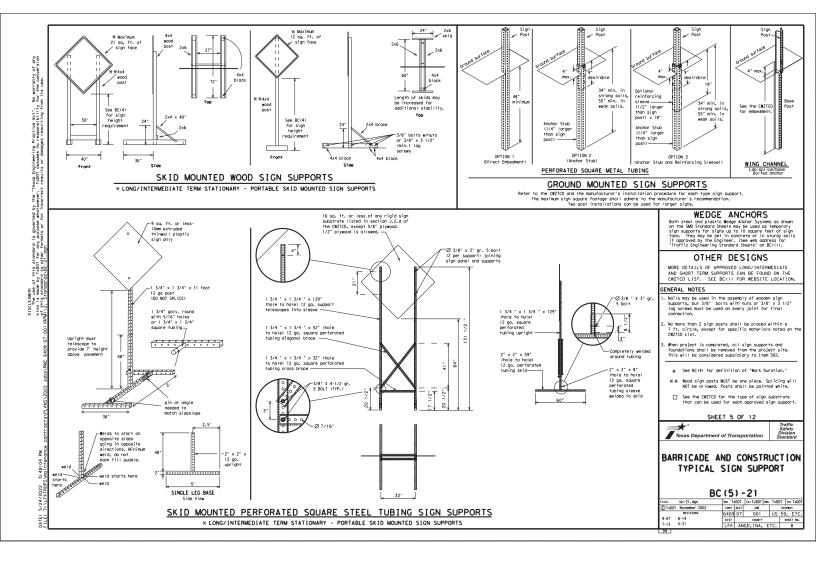


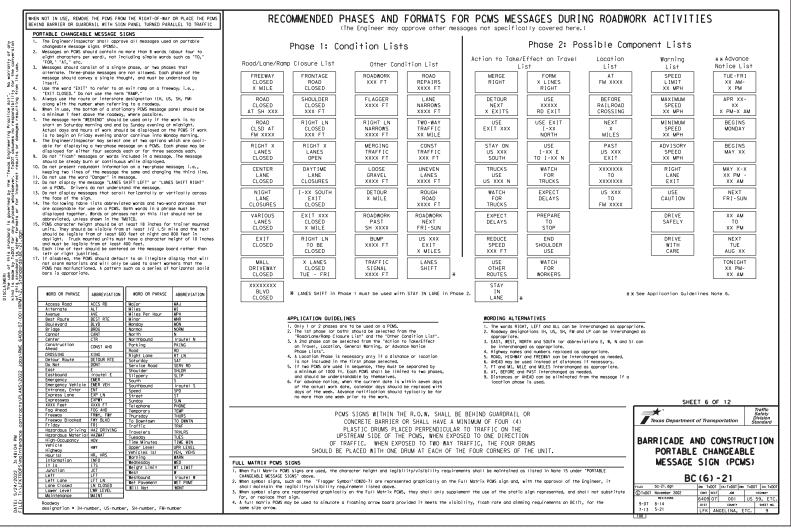
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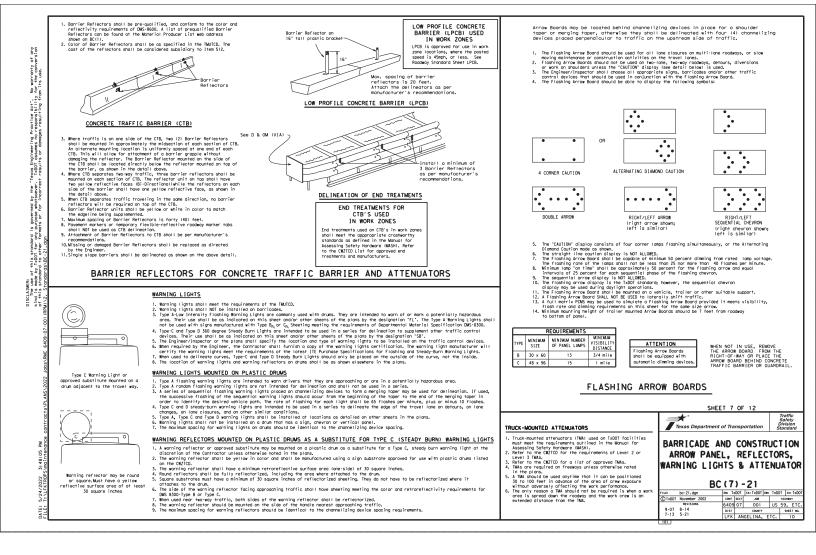


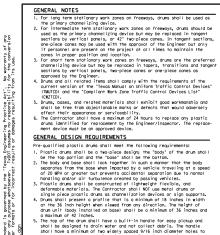












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## RETROREFLECTIVE SHEETING

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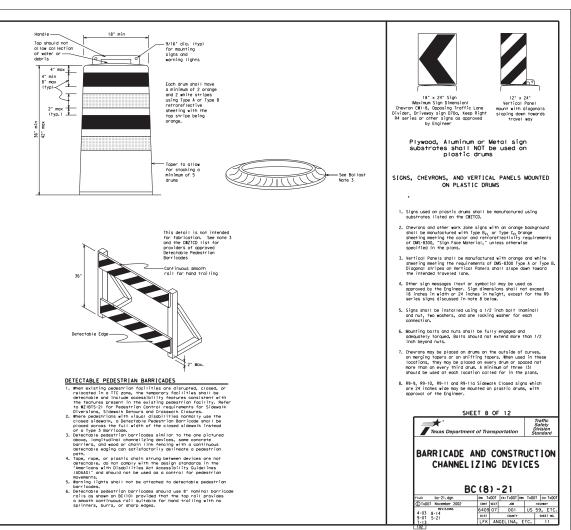
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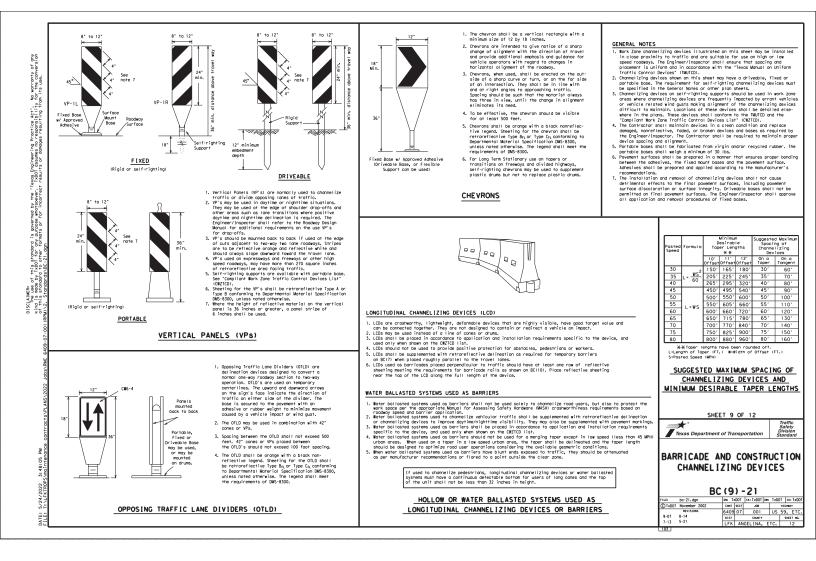
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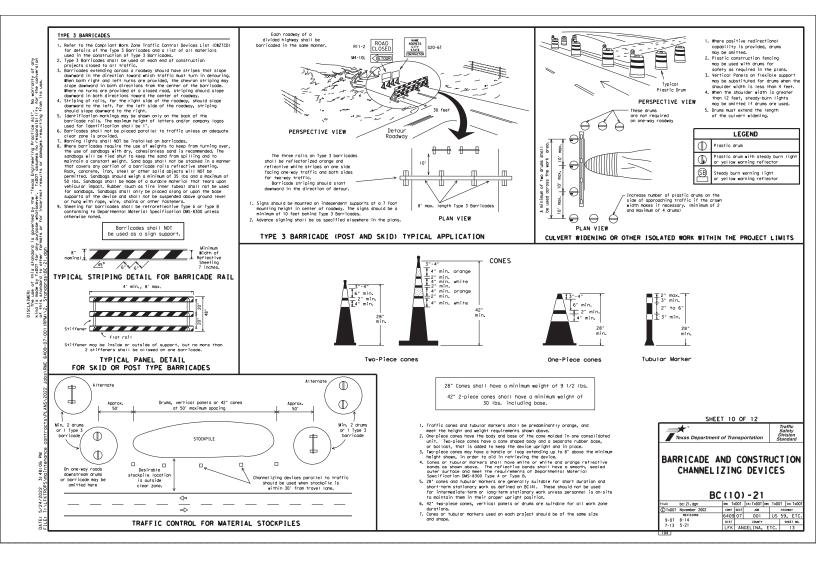
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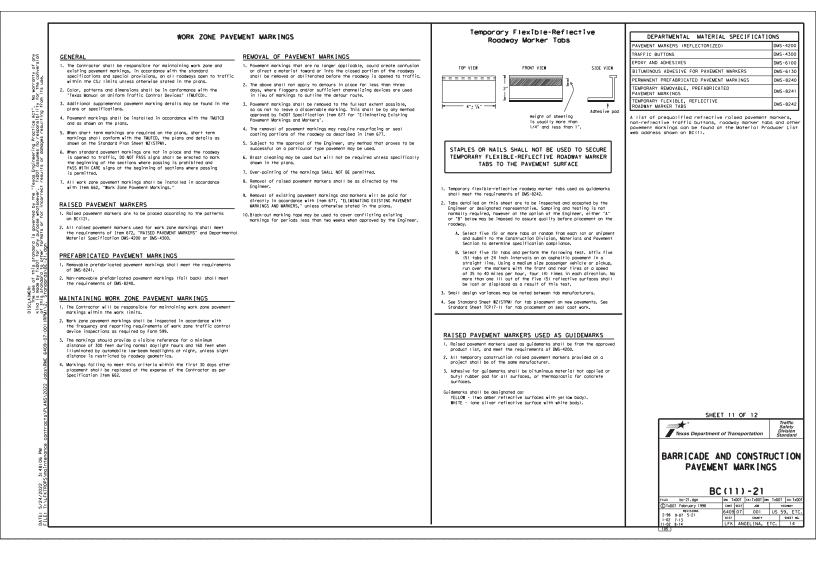
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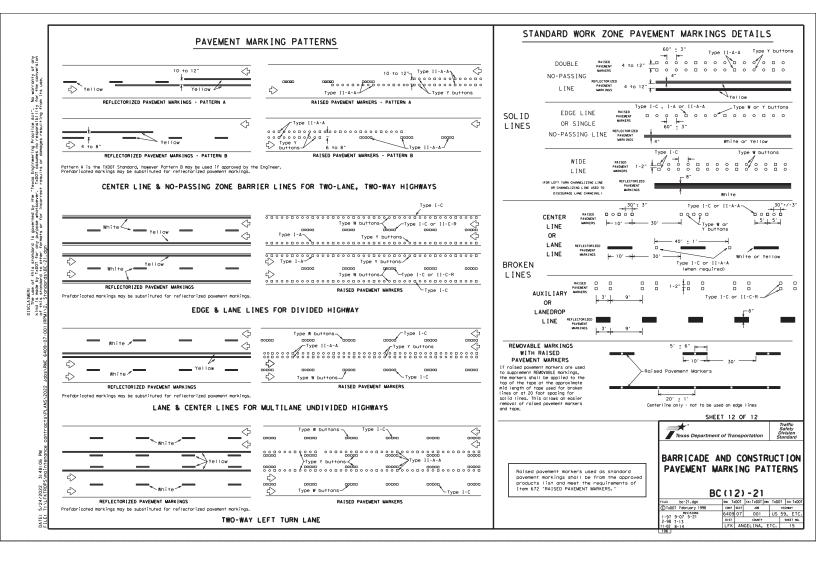
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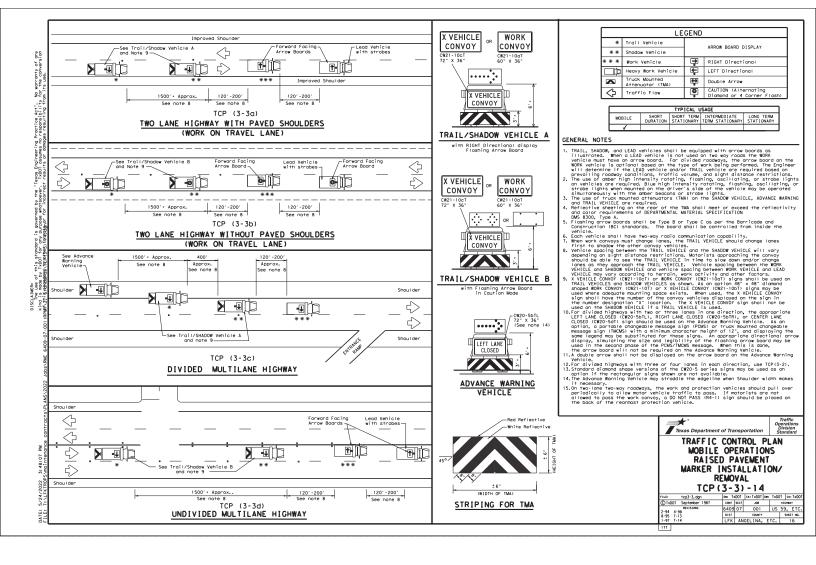


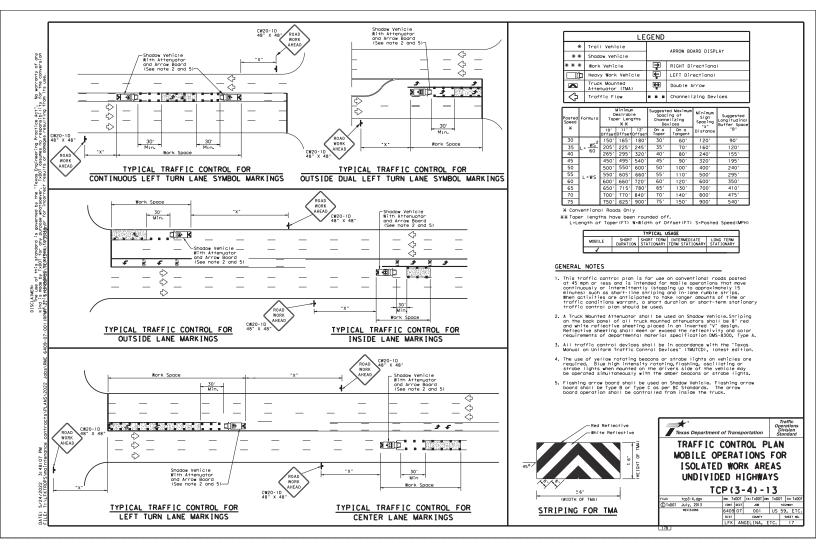


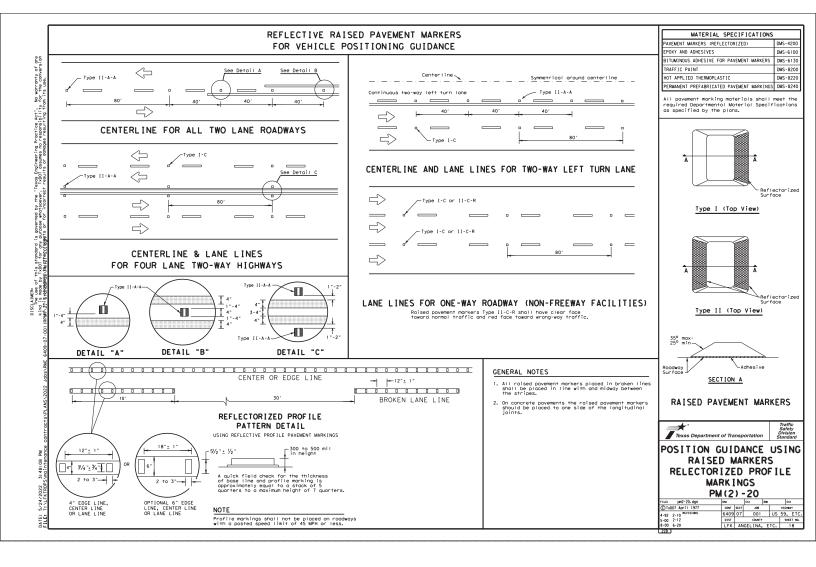


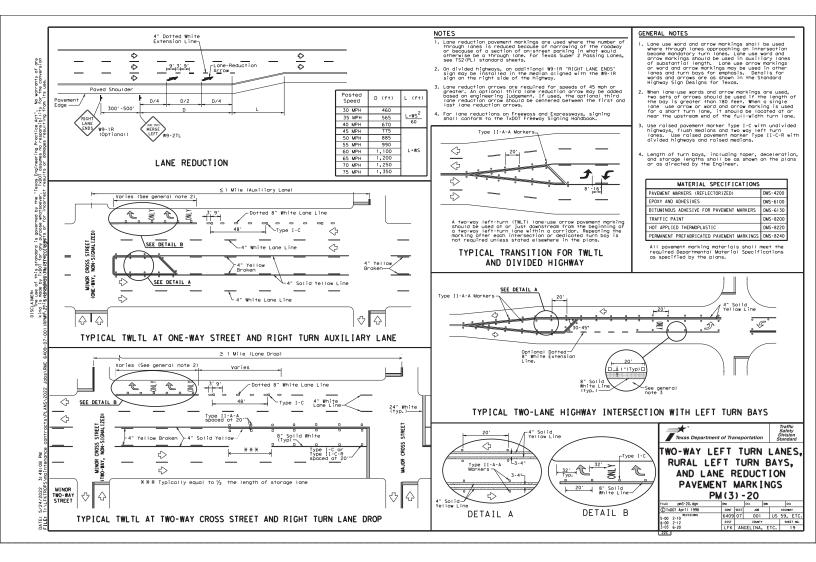


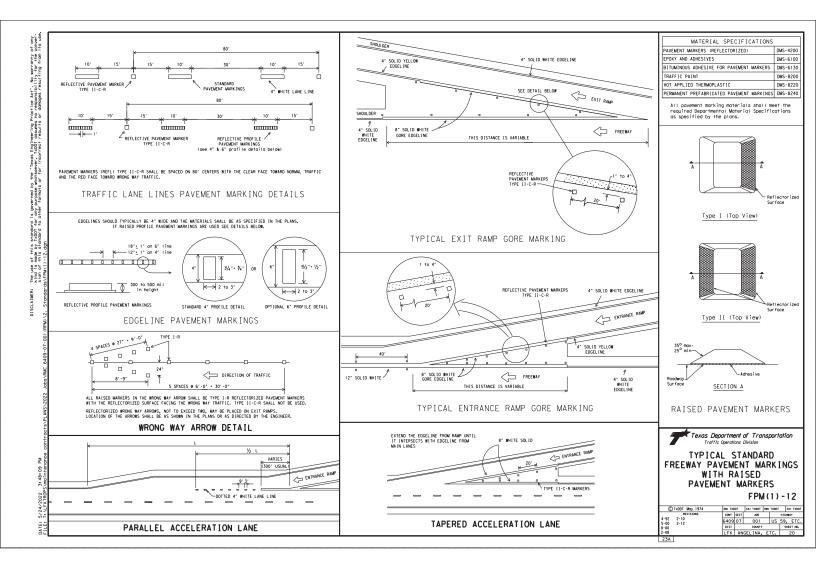












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	wetlands affected) Nationwide Permit 14 - Individual 404 Permit R Other Nationwide Permit Required Actions: List wat		acre, 1/3 in tidal waters) s to, location in project	do not disturb species or hold in order to maintin compliance will diffe Code and Migratory Bi cotivities that may offect nes work ) shall be conducted outs September 15). In the event bi present) are encountered, cont TPMD BMPsi 1. N/A	re observed, cease work in the immediate area, tat and contoct the Engineer immediately. e with Chapter 64 of the freeze Parks and rd Treaty Act (MBIA, construction ts (i.e. tree removal, tree imbing, pridge ide of the nestings asson (March 15 to rds or active nestings and/or nestings act the engineer prior to conducting work.			
	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 Loyouts. Best Management Practices:			threatened and endangered species within the Lufkin Texas golden glodecress, white blodde Dawn. Texas Trailing Phiox, Red-cockaded we with the United States Fish and Wildl to these species. No EQUIPMENT or VEHICLES shall leave	r pod, Neches River Rose-mollow, Texas Proirie wodpecker and Louisiana Pinesnake. Consultation life Service has not been conducted with regard	VII. <u>OTHER ENVIRONMENTAL ISSUES</u> (includes regional issues such as Edwards Aquifer District, etc.) No Action Required Required Action		
DATE: 6/6/2022 1:49:31 PM FILE: 1:\LFKTROPS\mmointenance contracts	Erosion   Temporary Vegetation   Bionex Motting   Wuich   Interceptor Seale   Diversion Dike   Erosion Control Compost   Wuich Filter Berm and Socks	Sedimentation SiH Fence Rock Berm Triongular Filter Dike Sand Bog Berm Straw Bole Dike Brush Berms Erosion Control Compost		the Area Engineer: Angelina County - SH 63; Houston Cour Nacogdoches County - SH 21; Polk Cour FM 2343, FM 2426; San Augustine Court FM 3483, FM 353; San Jacinto Courty - FM 2666; Shelby County - FM 2261, FM	FM 2633, FW 1725, FW 945, FW 2025, 3184; Trinity County - SH 94, FM 2262, FM 357. ABBREVIATIONS SPCC Soill Prevention Control and Contermeosure SPCC Soill Prevention Control and Contermeosure SPCC Production The International Production TOSE Texas Combision on Environmentol Quality TRESE Texas Pollutant Discorce Elimication System		Pesign Division Standard         Pesign Division Standard           EPIC         EPIC           (ENVIRONMENTAL PERMITS, ISSUES AND COMMITMENTS)           filter epic.day         ow income of the standard           0'1001: Forury 2015         ow income of the standard           0'-1001: Forury 2015         own in settime.           0'-1001: Forury 2015         own in settime.	