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RALLROAD

RAILROAD SCOPE OF WORK
*RAILROAD REQUIREMENTS FOR
NON-BRIDGE CONSTRUCTION PROJECTS

BIANCA B. MIJARES
148639

THE STANDARD SHEETS SPECIFICALLY IDENTIFIED ABOVE WITH AN (*) HAVE BEEN ISSUED BY ME OR UNDER MY RESPONSIBLE SUPERVISION AND ARE APPLICABLE TO THIS PROJECT.

Beance B. Thypus, P.E.

06-05-2023 DATE

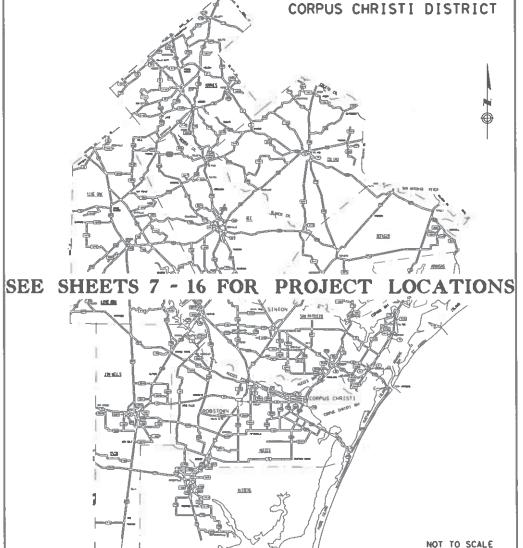
STATE OF TEXAS DEPARTMENT OF TRANSPORTATION

PLANS OF PROPOSED STATE HIGHWAY IMPROVEMENT

FEDERAL PROJECT NO. F 2823(210)

FISCAL YEAR 2023 DISTRICT WIDE PVMT MARKINGS & MARKERS

LIMITS: VARIOUS LOCATIONS DISTRICT WIDE TYPE OF WORK: PAVEMENT MARKINGS & MARKERS



SPECIFICATIONS ADOPTED BY THE TEXAS DEPARTMENT OF TRANSPORTATION NOVEMBER 1,2014, AND SPECIFICATION ITEMS LISTED AND DATED AS FOLLOWS SHALL GOVERN ON THIS PROJECT: REQUIRED CONTRACT PROVISIONS FOR ALL FEDERAL-AID CONSTRUCTION CONTRACTS (FROM FHWA 1273, JULY 5,2022)

CONT SECT 408 HIGHWAY
0916 00 228 IH37, ETC
0151 COUNTY SHEET MO.

PM DESIGN GUIDELINES DESIGN SPEED = N/A NO TDLR REQUIRED

EXCEPTIONS: NONE

RAILROAD CROSSINGS:
Konsos City Southern Roitrood
(LAREDO SUBDIVISION)
DOT 793651B RR MP:121.200 RR AT GRADE ON FM 1931/FLUORNOY RD
DOT 793657X RR MP:130.400 RR AT GRADE ON FM 70
DOT 900192E RR MP:0.00 RR UNDER IH 37
DOT 923782R RR MP:158.100 RR UNDER IH 37
DOT 793801G RR MP:117.500 RR AT GRADE ON CR 113
DOT 793802N RR MP:117.900 RR AT GRADE ON CR 114
DOT 793806R RR MP:118.480 RR AT GRADE ON S DUVAL ST
DOT 793807X RR MP:118.640 RR AT GRADE ON S GULF ST
DOT 793808E RR MP:118.750 RR AT GRADE ON N GULF ST
DOT 793810F RR MP:118.750 RR AT GRADE ON N GOLIAD ST
DOT 793810F RR MP:118.800 RR AT GRADE ON KEMPE AVE
DOT 793811M RR MP:118.980 RR AT GRADE ON S JOHNSON ST
DOT 793813B RR MP:119.350 RR AT GRADE ON S KING ST
DOT 793814 RR MP:119.400 RR AT GRADE ON S WRIGHT ST
DOT 793815P RR MP:119.400 RR AT GRADE ON S WRIGHT ST
DOT 793816W RR MP:119.400 RR AT GRADE ON S WRIGHT ST
DOT 793816W RR MP:119.560 RR AT GRADE ON S RANSAS ST
DOT 793816D RR MP:119.700 RR AT GRADE ON S ADAMS ST
DOT 793816W RR MP:119.700 RR AT GRADE ON S ADAMS ST
DOT 793818D RR MP:119.700 RR AT GRADE ON CAMERON ST
DOT 793818D RR MP:119.700 RR AT GRADE ON CAMERON ST
DOT 793818D RR MP:119.700 RR AT GRADE ON CAMERON ST
DOT 793818D RR MP:119.700 RR AT GRADE ON CAMERON ST
DOT 793819S RR MP:119.900 RR AT GRADE ON CAMERON ST

DOT 793821T RR MP: 120, 070 RR AT GRADE ON TEXAS BLVD

Union Pocific Railroad
(CORPUS CHRISTI SUBDIVISION)
DOT 746359R RR MP:0.500 RR UNDER US 181 (CLOSED)
DOT 746238T RR MP:39.590 RR AT GRADE ON FM 3241/NORTH TEXAS BLVD (CLOSED)
DOT 742625W RR MP:63.500 RR UNDER US 181 (CLOSED)
DOT 435607D RR MP:105.750 RR AT GRADE ON CR 392
DOT 435607D RR MP:105.750 RR AT GRADE ON CR 319
DOT 435611T RR MP:104.190 RR AT GRADE ON CR 371
DOT 435536J RR MP:104.300 RR OVER IH 37 (CLOSED)
DOT 435566B RR MP:126.430 RR UNDER IH 37 NBML
DOT 435586B RR MP:126.410 RR UNDER IH 37 NBML
DOT 435588B RR MP:126.410 RR UNDER IH 37 SBML
DOT 435588B RR MP:13.180 RR AT GRADE ON BS 359B
DOT 746199E RR MP:13.750 RR AT GRADE AT MAGNOLIA ST (CLOSED)
DOT 746201D RR MP:112.600 RR AT GRADE AT CHILITIPIN ST (CLOSED)
DOT 746203S RR MP:113.200 RR AT GRADE AT CHILITIPIN ST (CLOSED)
DOT 746203S RR MP:113.200 RR AT GRADE AT ROCKPORT ST (CLOSED)
DOT 746204Y RR MP:113.290 RR AT GRADE AT SAN PATRICIO AVE (OUT OF SERVICE)

(KOSMOS IND LD SUBDIVISION)
OUT 746314J RR MP:29.360 RR AT GRADE ON BS 35L (CLOSED)
OUT 978445D RR MP:29.092 RR AT GRADE ON BS 35L
DOT 746306S RR MP:26.200 RR AT GRADE ON SH 361/GOODNIGHT AVE

(BROWNSVILLE SUBDIVISION)
DOT 427590G RR MP:144.200 RR UNDER IH 69/US 77 NBML
DOT 427609W RR MP:132.010 RR AT GRADE ON FM 665/IST AVE
DOT 427746D RR MP:144.110 RR UNDER IH 69/US 77 SBML



APPROVED FOR LETTING:

6/6/2023

-DocuSigned by:

Valente Olivarez

EER

RECOMMENDED FOR LETTING: 6/5/2023

-DocuSigned by:

Paula Sales-Evans, P.E.

-5975450A18CC435...

County: Nueces Control: 0916-00-228

Highway: Various

GENERAL NOTES:

Find, for your information and convenience, tools such as forms, software, materials, and various other information provided by the Department at http://www.dot.state.tx.us/business/. Please note that these tools are updated periodically, and your attention is directed to the latest edition.

In the event of a called evacuation, emergencies, impending adverse weather or as directed, do not perform any work without written authorization. The District reserves the right to suspend all work in support of evacuations or emergencies occurring from other parts of the state. Any work performed, other than work directed by the Department, is unauthorized work in accordance with Item 5.

Sweep, clean and remove any construction waste, surplus materials or debris from the roadway and right of way at the end of each day unless otherwise approved. The work performed will not be measured or paid for directly but will be subsidiary to pertinent Items.

All pavement markings shall be in accordance with the latest edition of Texas MUTCD.

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

Lucio Ramos, P.E. Lucio.Ramos@txdot.gov Lucia Adame, P.E. Lucia.Adame@txdot.gov

Contractor questions will be accepted through email, phone, and in person by the above individual(s).

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:

https://tableau.txdot.gov/views/ProjectInformationDashboard/NoticetoContractors

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 2:

It is recommended that prospective bidders examine the specified work locations with the Engineer to view the nature of the work, the need for close coordination with the various utilities, traffic control considerations, and other factors influencing the prosecution of the work.

General Notes Sheet A

County: Nueces Control: 0916-00-228

Highway: Various

ITEM 5:

Field verify all dimensions and notify Engineer prior to initiating any work.

Verify the locations of utilities, underground or overhead, shown within the limits of the right-of-way. Adhere to OSHA Standards when working within the vicinity of overhead power lines. Coordinate with the utility companies and notify the Engineer of any possible conflicts. The work performed will not be measured or paid for directly but will be subsidiary to pertinent Items

The 811 call services for utility locations do not include TxDOT facilities. Provide notification to the District Traffic Signal Shop by email at CRP_Utility_Locate@txdot.gov or call (361-739-6044) when planning drilling or excavation work in areas where existing TxDOT underground utilities exist." Visual evidence of TxDOT underground utilities in the area include illumination poles, ground boxes, flashing beacons, traffic signals, etc. This notification must be provided 48 hours in advance of performing the work, but no earlier than 72 business hours before the work will commence.

Notify the Engineer immediately of utility conflicts in accordance with Item 5.6. Refer to Item 4.5 for consideration of differing site conditions.

The responsibility for the construction surveying on this contract will be in accordance with Item 5.9.3, "Method C"

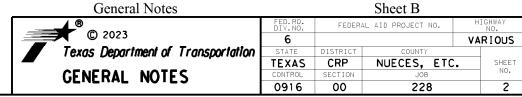
Establish and mark the location of existing standard pavement markings including but not limited to edge lines, transitions, passing and no passing zones, gore areas, etc.

ITEM 6

To comply with the latest provisions of Build America, Buy America Act (BABA Act) of the Bipartisan Infrastructure Law, the contractor must submit a notarized original of the TxDOT Construction Material Buy America Certification Form for all items classified as construction materials. This form is not required for materials classified as a manufactured product.

Refer to the Buy America Material Classification Sheet for clarification on material categorization.

The Buy America Material Classification Sheet is located at the below link. https://www.txdot.gov/business/resources/materials/buy-america-material-classification-sheet.html for clarification on material categorization.



County: Nueces Control: 0916-00-228

Highway: Various

ITEM 7:

The work performed for Item 7.2.4, "Public Safety and Convenience" will not be measured or paid for directly but will be subsidiary to pertinent Items.

When working at street, farm-to-market, state highway, and county road intersections, schedule work to minimize intersection closures. During nonworking hours, all public road intersections will be open to the traveling public.

The total disturbed area for this project is 0 acres. The disturbed area in this project, all project locations in the Contract, and Contractor project specific locations (PSLs), within 1 mile of the project limits, for the Contract will further establish the authorization requirements for storm water discharges. The Department will obtain an authorization to discharge storm water from the Texas Commission on Environmental Quality (TCEQ) for the construction activities shown on the plans. The Contractor is to obtain any required authorization from the TCEQ for any Contractor PSLs for construction support activities on or off ROW. When the total area disturbed for all projects in the Contract and PSLs within 1 mile of the project limits exceeds 5 acres, provide a copy of the Contractor NOI for PSLs on the ROW to the Engineer.

No significant traffic generator events identified.

ITEM 8:

Prepare the progress schedule using the Critical Path Method (CPM). Submit (2) two 11" x 17" hard copies and an electronic file of the original or updated progress schedule. Submit the original progress schedule seven (7) days before the Preconstruction Conference.

Submit an updated progress schedule as directed to show proposed major changes, changes affecting compliance with the contract requirements, or changes affecting the critical path/controlling item of work.

Working days will be computed and charge in accordance with Article 8.3.1.4, "Standard Workweek".

Work above traffic is not allowed.

Lane closures are not permitted Monday through Friday before 8 AM or after 4 PM unless approved.

Nighttime work is allowable.

Notify the Engineer at least 48 hours in advance of weekend or nighttime work.

General Notes Sheet C

County: Nueces Control: 0916-00-228

Highway: Various

ITEM 9:

Monthly progress payments will be made for items of work completed by the 28th day of each month. Any work completed after the 28th will be included for payment in the subsequent monthly progress estimate.

Submit work completed in a format specified by the Area Engineer.

Submit signed request for compensation of material-on-hand (MOH), including any requests from subcontractors, suppliers, or fabricators for MOH, at least two (2) working days prior to the end of the month on the Departments approved forms.

ITEM 502:

Furnish additional barricades, signs, and traffic handling as directed. The work performed will not be measured or paid for directly but will be subsidiary to pertinent Items.

Traffic control for daytime lane closures shall be in accordance with applicable standards. Traffic control shall include temporary rumble strips in accordance with WZ (RS)-22

Traffic Control Plan (TCP) items listed in standard sheets as optional, such as arrow panels and TMAs, shall be required unless otherwise approved by the Engineer.

When advanced warning flashing arrow panels are specified, furnish one (1) standby unit in good condition at the job site for immediate use.

For any flagging operation, provide a positive means of communication between flaggers. Attach stop/slow paddle to a staff with a minimum length of 6 feet to the bottom of the sign.

The use of a pilot vehicle in conjunction with flaggers will be permitted. If used, provide positive and unrestricted communication between the driver of the pilot vehicle and the flaggers. The work performed will not be measured or paid for directly but will be subsidiary to pertinent Items.

When removing barricades and signs, the Contractor shall fill all holes left by sign and barricade supports and restore the area in which the signs and barricades were removed to its original condition. The work performed will not be measured or paid for directly but will be subsidiary to Item 502.

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



County: Nueces Control: 0916-00-228

Highway: Various

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.

Trail vehicle shall be required on all mobile traffic control operations.

ITEM 506:

Do not discharge onto the ground or surface waters any pollutants such as chemicals, raw sewage, fuels, lubricants, coolants, hydraulic fluids, bitumen's, or any other petroleum product. Operate and maintain equipment on site in a manner as to prevent actual or potential water pollution. Manage, control, and dispose of litter on site such that no adverse impacts to water quality occur. Prevent dust from creating a potential or actual unsafe condition, public nuisance, or condition endangering the value, utility, or appearance of any property. Wash out concrete trucks only in approved contained areas. Use appropriate controls to minimize the offsite transport of suspended sediments and other pollutants if it is necessary to pump or channel standing water (i.e., dewatering). Prevent discharges that would contribute to a violation of Edwards Aquifer Rules, water quality standards, the impairment of a listed water body, or other state or federal law.

The Storm Water Pollution Prevention Plan (SWP3) consists of temporary erosion control measures needed and provided for under this item. The disturbed area is less than one acre and use of erosion control measures is not anticipated. If physical conditions encountered at the job site require necessary controls, BMP installation, maintenance, and removal will be paid as extra work on a force account basis per Articles 4.4 and 9.7.

ITEM 666:

This is retracement of existing stripe on corridors listed in the summary sheets.

Establish and mark the location of existing standard pavement markings including but not limited to edge line, transitions, passing and no passing zones, gore areas, etc.

Striping quantities as shown in the plans are approximate. Additional striping may be required as field conditions warrant. The Contractor shall inform the Engineer of any additional striping required before placement of the permanent pavement markings.

TY II markings where proposed are to be used as a sealer for TY I profile markings. Refer to Surface Detail summary sheets.

General Notes Sheet E

County: Nueces Control: 0916-00-228

Highway: Various

Install raised profile stripe as specified on the Sequence of Construction.

Prior to striping, the Contractor shall confirm with the Engineer to ensure any seal coat work has been completed before placement of permanent pavement markings.

Contractor shall provide retro reflectivity measurements in digital Excel spreadsheet format for existing and final striping to include but not be limited to TY I raised profile pavement markings as described in Item 666, "Retro reflectorized Pavement Markings." Retro reflectivity testing frequency to be determined by the Area Engineer.

ITEM 677:

Eliminate all conflicting pavement markings as work progresses or as directed

Use Surface "Treatment Method" for asphaltic pavements in cases where full eradication of pavement markings is required. Use a PB Grade 5 aggregate at an application rate of 1 cy/130 sy and asphalt AC-5, AC-10, CRS-2 or HFRS-2 at an application rate of 0.39 Gal/sy.

For all other cases refer to the spec book for allowable methods of pavement marking removal.

ITEM 6001:

Furnish the portable changeable message signs displaying the correct message at least seven (7) days prior to beginning work or as directed.

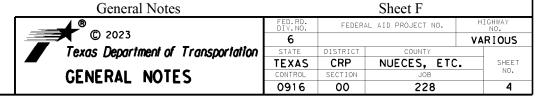
The Contractor's Responsible Person (CRP) will maintain full control of messages at all times.

The Engineer will provide the sign message to text to use at each sign.

A minimum of 2 PCMS will be required. However, additional units may be necessary depending on the work in progress.

Standby time will not be measured or paid for directly but will be subsidiary to pertinent Items.

Portable changeable message signs may be moved, and message changed at any time as deemed necessary by the Engineer. This will be considered subsidiary to Item 6001.



Sheet G

County: Nueces Control: 0916-00-228

Highway: Various

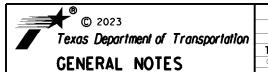
ITEM 6185:

A minimum of 2 TMAs will be required. However, additional units may be necessary depending on the work in progress.

Provide manufacture's curb weight or certified scales weight ticket to the Engineer for approval.

TMAs paid by the day shall be available for the duration of the project. Relocation of TMAs will be directed by the Engineer and will be considered subsidiary to this Item.

General Notes Sheet G



I	FED.RD. DIV.NO.	FEDER/	AL AID PROJECT NO.	Н	IGHWAY NO.
I	6			V۸	RIOUS
I	STATE	DISTRICT	COUNTY		
I	TEXAS	CRP	NUECES, ETC.		SHEET
I	CONTROL	SECTION	JOB		NO.
I	0916	00	228		4A



Estimate & Quantity Sheet

CONTROLLING PROJECT ID 0916-00-228

DISTRICT Corpus Christi **HIGHWAY** Various

COUNTY Nueces

		CONTROL SECTION	N JOB	0916-00)-228		
		PROJECT ID		A00130162			
		C	OUNTY	Nueces		TOTAL EST.	TOTAL
			HWAY	Vario			FINAL
LT	BID CODE	DESCRIPTION	UNIT	EST.	FINAL		
	500-6001	MOBILIZATION	LS	1.000		1.000	
	502-6001	BARRICADES, SIGNS AND TRAFFIC HANDLING	МО	5.000		5.000	
	666-6017	REFL PAV MRK TY I (W)6"(DOT)(090MIL)	LF	12,480.000		12,480.000	
	666-6029	REFL PAV MRK TY I (W)8"(DOT)(090MIL)	LF	6,590.000		6,590.000	
	666-6035	REFL PAV MRK TY I (W)8"(SLD)(090MIL)	LF	185,485.000		185,485.000	
	666-6041	REFL PAV MRK TY I (W)12"(SLD)(090MIL)	LF	6,340.000		6,340.000	
	666-6174	REFL PAV MRK TY II (W) 6" (SLD)	LF	1,786,615.000		1,786,615.000	
	666-6208	REFL PAV MRK TY II (Y) 6" (BRK)	LF	179,670.000		179,670.000	
	666-6210	REFL PAV MRK TY II (Y) 6" (SLD)	LF	832,710.000		832,710.000	
	666-6285	REF PROF PAV MRK TY I(W)6"(SLD)(090MIL)	LF	1,786,615.000		1,786,615.000	
	666-6289	REF PROF PAV MRK TY I(Y)6"(SLD)(090MIL)	LF	832,710.000		832,710.000	
	666-6293	REF PROF PAV MRK TY I(Y)6"(BRK)(090MIL)	LF	179,670.000		179,670.000	
	666-6305	RE PM W/RET REQ TY I (W)6"(BRK)(090MIL)	LF	312,445.000		312,445.000	
	666-6308	RE PM W/RET REQ TY I (W)6"(SLD)(090MIL)	LF	3,095,365.000		3,095,365.000	
	666-6317	RE PM W/RET REQ TY I (Y)6"(BRK)(090MIL)	LF	208,400.000		208,400.000	
	666-6320	RE PM W/RET REQ TY I (Y)6"(SLD)(090MIL)	LF	2,302,670.000		2,302,670.000	
	668-6074	PREFAB PAV MRK TY C (W) (12") (SLD)	LF	33,100.000		33,100.000	
	668-6076	PREFAB PAV MRK TY C (W) (24") (SLD)	LF	13,254.000		13,254.000	
	668-6077	PREFAB PAV MRK TY C (W) (ARROW)	EA	569.000		569.000	
	668-6078	PREFAB PAV MRK TY C (W) (DBL ARROW)	EA	66.000		66.000	
	668-6080	PREFAB PAV MRK TY C (W) (UTURN ARROW)	EA	20.000		20.000	
	668-6083	PREFAB PAV MRK TY C (W) (LNDP ARROW)	EA	16.000		16.000	
	668-6085	PREFAB PAV MRK TY C (W) (WORD)	EA	485.000		485.000	
	668-6089	PREFAB PAV MRK TY C (W) (RR XING)	EA	27.000		27.000	
	668-6091	PREFAB PAV MRK TY C (W) (18")(YLD TRI)	EA	6.000		6.000	
	668-6092	PREFAB PAV MRK TY C (W) (36")(YLD TRI)	EA	633.000		633.000	
	668-6106	PREFAB PAV MRK TY C (Y) (12") (SLD)	LF	9,760.000		9,760.000	
	668-6108	PREFAB PAV MRK TY C (Y) (24") (SLD)	LF	70.000		70.000	
	672-6007	REFL PAV MRKR TY I-C	EA	5,515.000		5,515.000	
	672-6009	REFL PAV MRKR TY II-A-A	EA	50,901.000		50,901.000	
	672-6010	REFL PAV MRKR TY II-C-R	EA	24,934.000		24,934.000	
	677-6005	ELIM EXT PAV MRK & MRKS (12")	LF	6,681.000		6,681.000	
	677-6007	ELIM EXT PAV MRK & MRKS (24")	LF	11,533.000		11,533.000	
	677-6008	ELIM EXT PAV MRK & MRKS (ARROW)	EA	585.000		585.000	
	677-6009	ELIM EXT PAV MRK & MRKS (DBL ARROW)	EA	66.000		66.000	
	677-6012	ELIM EXT PAV MRK & MRKS (WORD)	EA	485.000		485.000	
	677-6016	ELIM EXT PAV MRK & MRKS (RR XING)	EA	27.000		27.000	



DISTRICT	COUNTY	CCSJ	SHEET
Corpus Christi	Nueces	0916-00-228	5



Estimate & Quantity Sheet

CONTROLLING PROJECT ID 0916-00-228

DISTRICT Corpus Christi **HIGHWAY** Various

COUNTY Nueces

Report Created On: Jun 2, 2023 9:54:32 AM

		CONTROL SECTION JOB 0916-00-228					
	PROJECT ID			A0013	0162		
		cc	DUNTY	Nue	es	TOTAL EST.	TOTAL FINAL
		HIGHWAY		Vario	ous		1110/12
ALT	BID CODE	DESCRIPTION	UNIT	EST.	FINAL		
	677-6018	ELIM EXT PAV MRK & MRKS (18")(YLD TRI)	EA	6.000		6.000	
	677-6019	ELIM EXT PAV MRK & MRKS (36")(YLD TRI)	EA	633.000		633.000	
	677-6028	ELIM EXT PV MRK & MRKS (RUMBLE STRIP)	LF	566.000		566.000	
	677-6036	ELIM EXT PAV MRK & MRKS (UTURN ARROW)	EA	20.000		20.000	
	678-6002	PAV SURF PREP FOR MRK (6")	LF	8,730,025.000		8,730,025.000	
	678-6004	PAV SURF PREP FOR MRK (8")	LF	192,075.000		192,075.000	
	6001-6001	PORTABLE CHANGEABLE MESSAGE SIGN	DAY	85.000		85.000	
	6056-6001	PREFORMED IN-LANE(TRANS) RUMBLE STRIP	LF	566.000		566.000	
	6056-6002	PREFORMED CENTERLINE RUMBLE STRIP	LF	52,955.000		52,955.000	
	6185-6002	TMA (STATIONARY)	DAY	85.000		85.000	
	6185-6005	TMA (MOBILE OPERATION)	DAY	85.000		85.000	
	18	SAFETY CONTINGENCY: CONTRACTOR FORCE ACCOUNT WORK (PARTICIPATING)	LS	1.000		1.000	
		EROSION CONTROL MAINTENANCE: CONTRACTOR FORCE ACCOUNT WORK (PART)	LS	1.000		1.000	



DISTRICT	COUNTY	CCSJ	SHEET
Corpus Christi	Nueces	0916-00-228	6

US181 SH 123

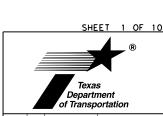
SH 80

0100-06

0366-06

0348-04, 0348-03

KARNES COUNTY LOCATION MAP



MILES

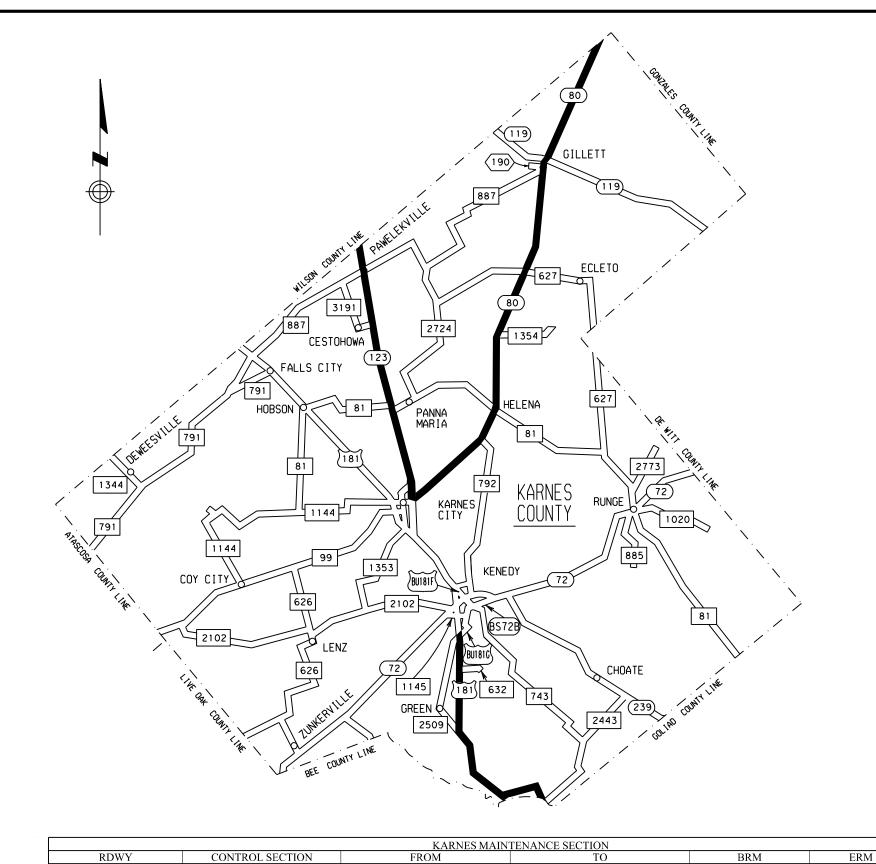
10.522 12.46 23.46

0560+0.885

0526+0.119

0526+0.170

or transportation						
CONT	SECT JOB HIG			HIGHWAY		
0916	00	228	ΙH	137, ETC		
DIST		COUNTY		SHEET NO.		
CRP	NUECES, ETC.			7		



Bee County Line

SH 80

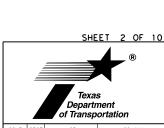
SH 72

Wilson County Line Wilson County Line 0572+0.008

0538+0.594

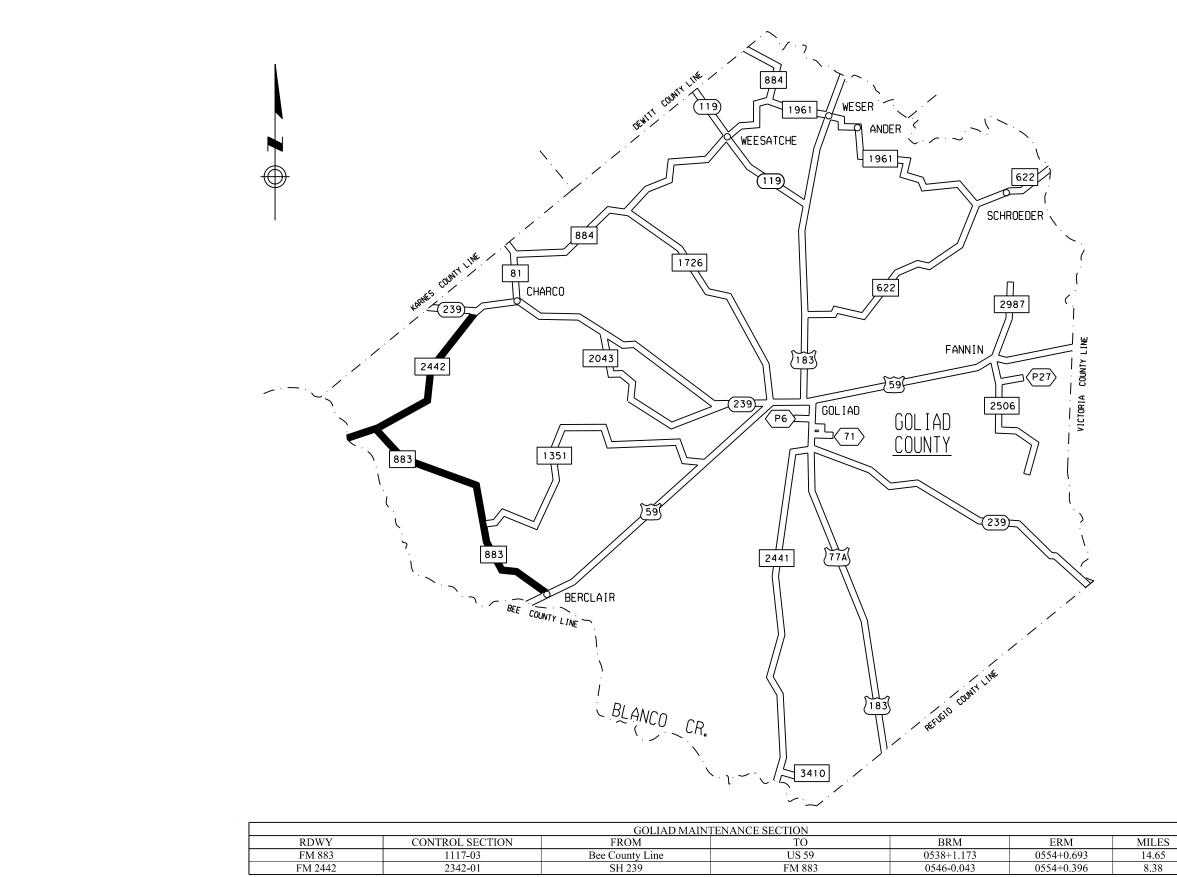
0550+0.571

GOLIAD COUNTY LOCATION MAP



8.38

Department of Transportation						
CONT	SECT	JOB		H I GHWAY		
916	00	228	ΙH	137, ETC		
DIST		COUNTY		SHEET NO		
יםם:		MULCEC ET	_	0		



SAN PATRICIO COUNTY LINE BEE MAINTENANCE SECTION MILES 24.75 7.28 6.59 FROM
County Road 152 BRM 0552+1.357 ERM 0578+0.167 RDWY CONTROL SECTION TO US 59 1063-01 0087-05 FM 673 SH 359 US 181 Frontage Road US 181 0.4 Miles North of FM 3355 San Patricio County Line BUS 181 0586+1.244 0580+0.010 0100-08 0588+0.396 0594+1.079

BEEVILLE

351

797

YOUGEEN

SKIDMORE

PAPALOTE

COUNTY

GEORGE WEST MAINTENANCE SECTION						
RDWY	CONTROL SECTION	FROM	TO	BRM	ERM	MILES
FM 534	1550-02	Live Oak County Line	FM 796	0588+0.007	0586-0.02	0.607

PAWNEE

Note:
*Prior to striping, the Contractor shall confirm with the Engineer to ensure any seal coat work has been completed before placement of permanent pavement markings.

TULETA

351

797 OLMOS

1349

3190

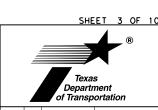
Normanna

1465

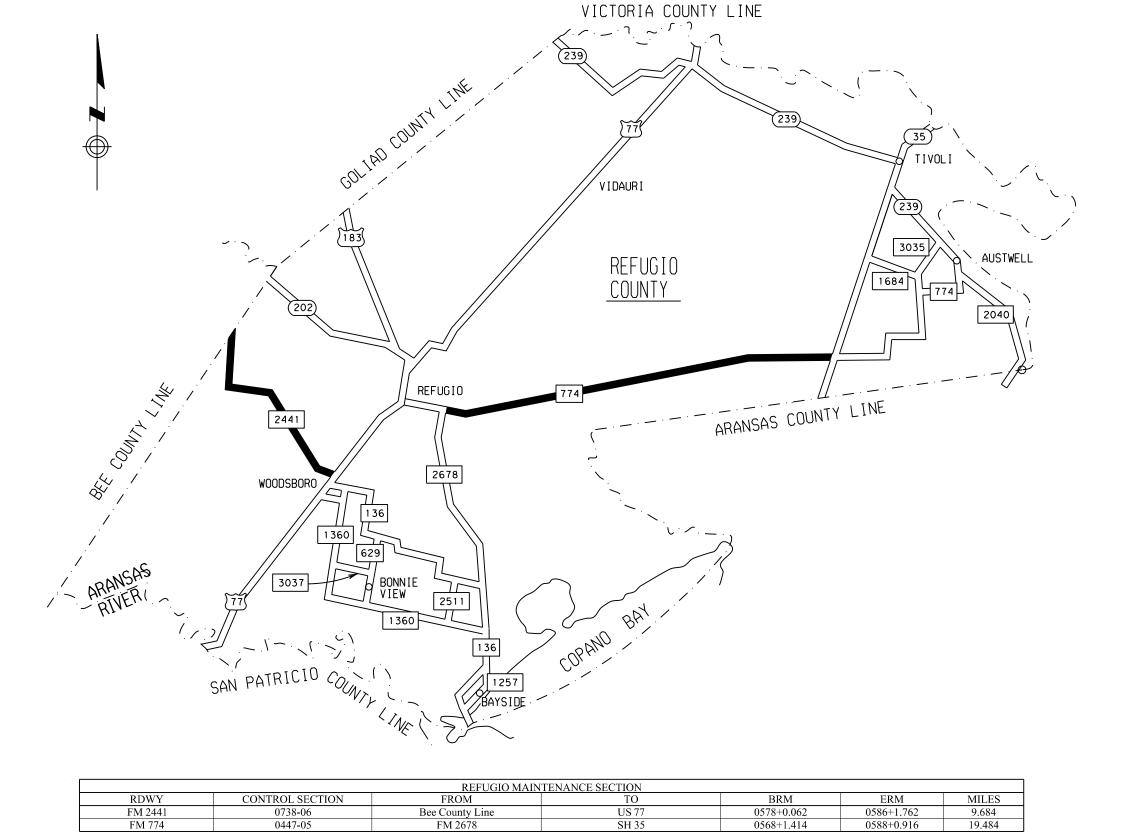
MINERAL

REFUGIO MAINTENANCE SECTION									
RDWY									
FM 2441	0738-05	SH 202	Refugio County Line	0574-0.834	0578+0.062	3.584			

BEE COUNTY LOCATION MAP

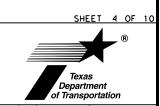


CONT	SECT	JOB	HIGHWAY		
916	00	228	IH37,ETC		
DIST		COUNTY		SHEET NO.	
CRP	P NUECES, ETC.		С.	9	



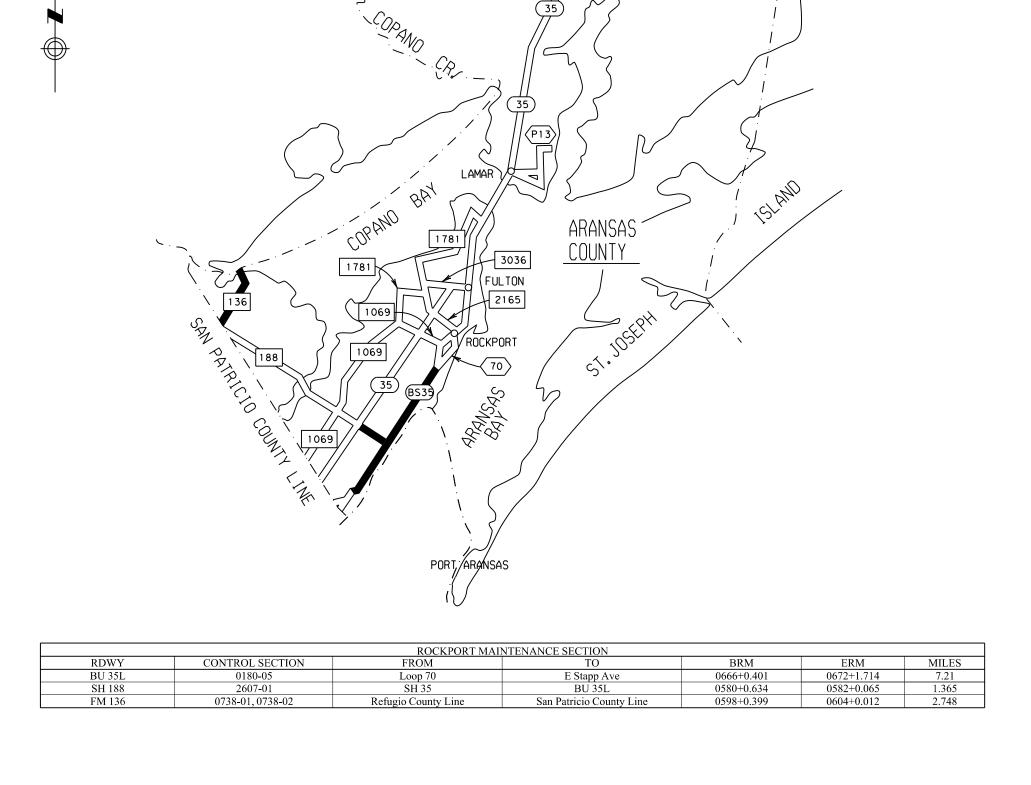
Note:
*Prior to striping, the Contractor shall confirm with the Engineer to ensure any seal coat work has been completed before placement of permanent pavement markings.

REFUGIO COUNTY LOCATION MAP



CONT	SECT	JOB		HIGHWAY		
0916	00	228	IH37,ETC			
DIST		COUNTY		SHEET NO.		
CRP		NUECES, ETC		10		

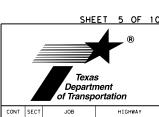




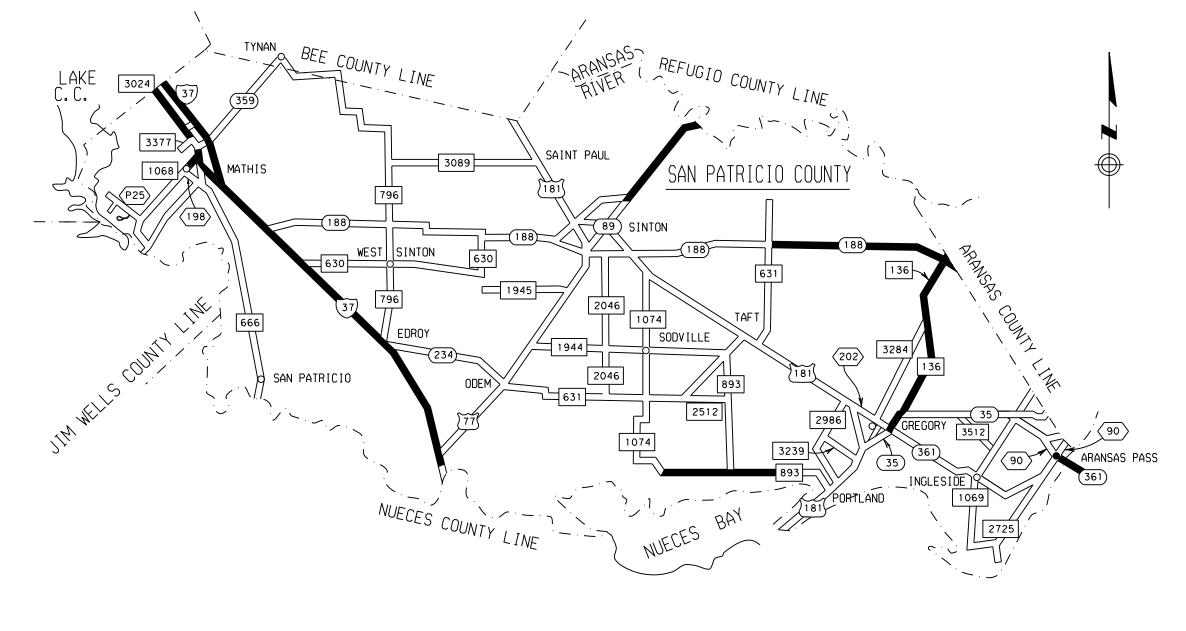
REFUGIO COUNTY LINE

2040

ARANSAS COUNTY
LOCATION MAP



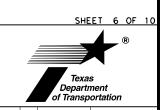
CONT	SECT	JOB	HIGHWAY					
0916	00	228	IH37,ETC					
DIST		COUNTY		SHEET NO.				
CBB		NUECES ETC		1 1				



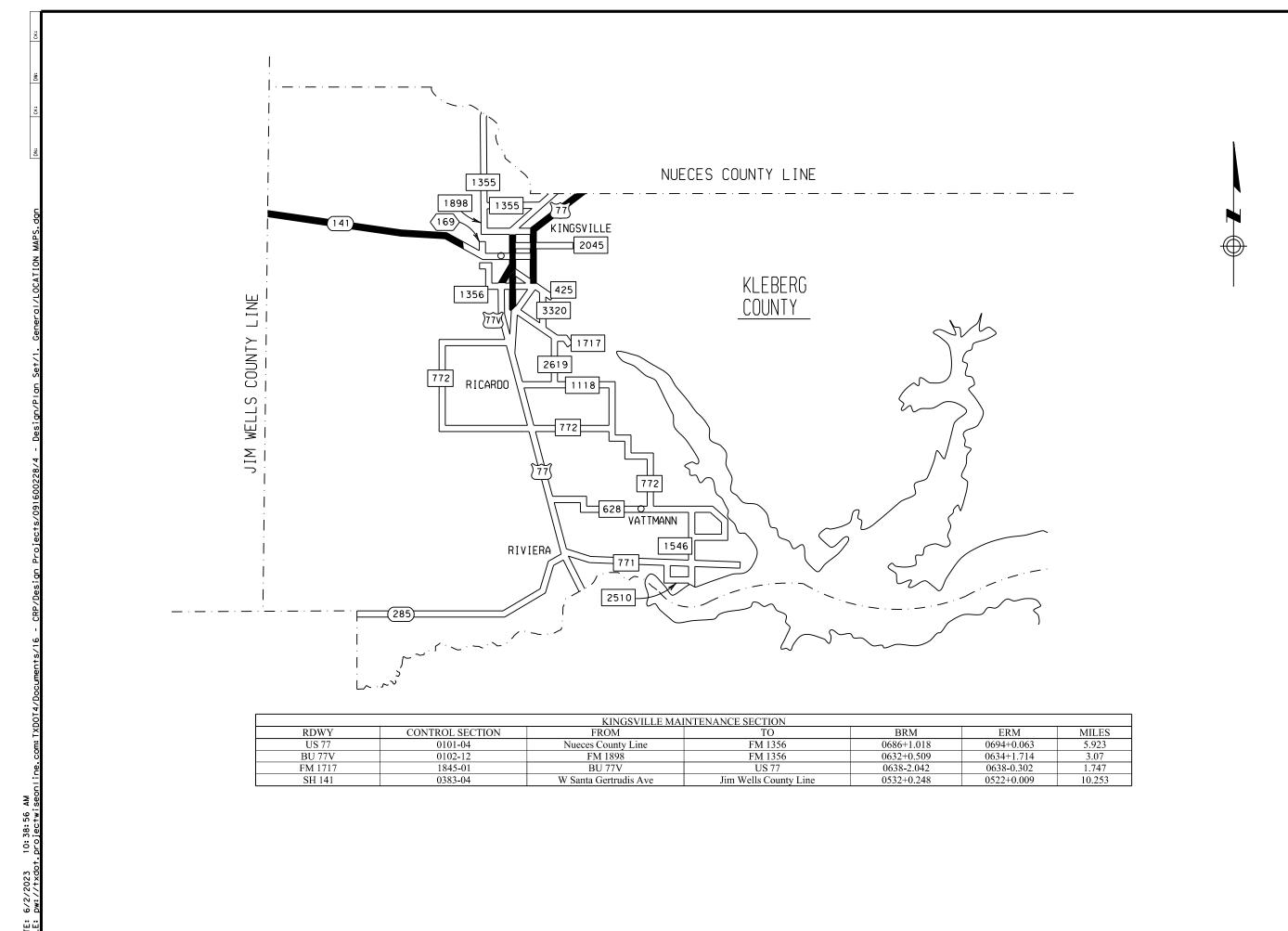
SINTON MAINTENANCE SECTION									
RDWY	CONTROL SECTION	FROM	TO	BRM	ERM	MILES			
FM 893	1209-01	FM 1074	Hunt Road	0602+1.478	0606+1.486	3.881			
FM 1074	1559-01	CR 2849	FM 893	0604+0.202	0608+0.615	4.384			
FM 3024	0074-11	Live Oak County Line	FM 3377	0588+0.032	0590+0.36	2.374			
BS359B	0087-06	San Patricio Ave.	SH 359	0590+0.828	0590-0.017	0.846			
US77	0371-04, 0371-03	BS77	Refugio County Line	0642+1.868	0636+1.422	5.936			
IH 37 Access Road South	0074-03	SH 359	Spur 459	0036+0.169	0034+0.576	2			
Spur 459	0074-12	SH 359	IH 37	592-0.108	593+0.045	0.921			
IH 37 East Frontage Road	0074-05	FM 796	SH 234	0023+0.101	0022+0.650	0.504			
IH 37	0074-05.0074-04. 0074-03	Mile Marker 17	Live Oak County Line	0017±0.138	0039+0.599	22.423			

	ROCKPORT MAINTENANCE SECTION							
RDWY	CONTROL SECTION	FROM	TO	BRM	ERM	MILES		
SH 361E	2263-01, 2263-02	SL 90	Nueces County Line	0612+0.295	0614+0.029	0.47		
SH 188	0507-03	FM 631	Aransas County Line	0560+0.925	0572+0.037	9.475		
FM 136	0738-03, 3474-01	Aransas County Line	SH 35	0604+0.026	0612+0.314	8.245		

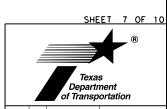
SAN PATRICIO COUNTY LOCATION MAP



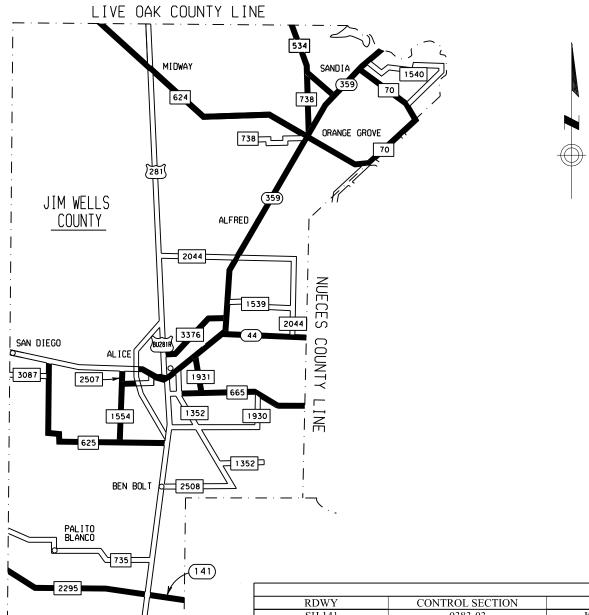
CONT	SECT	JOB	HIGHWAY		
916	00	228	IH37,ETC		
DIST		COUNTY		SHEET NO.	
CRP	P NUECES, ETC.		С.	12	



KLEBERG COUNTY
LOCATION MAP







KINGSVILLE MAINTENANCE SECTION									
RDWY	CONTROL SECTION	FROM	TO	BRM	ERM	MILES			
SH 141	0383-03	Kleberg County Line	US 281	0520+0.36	0518-0.091	2.408			
US 281	0255-02	County Road 418	Brooks County Line	0700+1.955	0708+0.012	5.351			
				1 2.22.21900					

		ALICE MAINT	ENANCE SECTION			
RDWY	CONTROL SECTION	FROM	TO	BRM	ERM	MILES
SH 44	0086-11, 0087-01	US 281	FM 1931	0518+1.704	0522+1.911	8.037
SH 44	0087-01, 0373-04	FM 1931	Nueces County Line	0522+1.911	0530+1.299	7.446
FM 624	2373-05, 0989-01	Live Oak County Line	Nueces County Line	0528+0.013	0546+1.167	19.163
FM 665	0086-19	FM 1352	Nueces County Line	0520+1.398	0528+1.707	8.28
FM 625	0990-01	SH 44	US 281	0614-0.04	0624+1.712	11.653
FM 1554	1485-01	US 281	FM 625	0618-0.585	0620+1.782	4.075
FM 2507	2413-01	SH 44	FM 1554	0616-0.035	0616+0.952	0.99
FM 534	1808-03	Live Oak County Line	SH 359	0612+0.008	0616+1.153	5.208
FM 3376	3339-01	BU US 281	SH 359	0508-0.045	0512+0.451	4.356
FM 70	1088-01	SH 359	FM 624	0598-2.043	0604+0.976	9.012
FM 2295	2170-02	Duval County Line	US 281	0512+0.007	0520+0.9	8.904
SH 359	0087-01, 0087-02	SH 44	San Patricio Co. Line	0548-2.005	0568+0.246	20.803
FM 1931	1693-01	SH 44	FM 665	0616-0.072	0616+2.2	2.271
FM 738	1087-01	FM 624	FM 534	0600+0.056	0598-1.949	4.106

KLEBERG COUNTY LINE

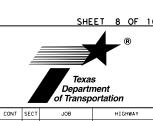
PREMONT

LA GLORIA

1538

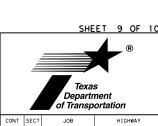
Note: *Prior to striping, the Contractor shall confirm with the Engineer to ensure any seal coat work has been completed before placement of permanent pavement markings.

JIM WELLS COUNTY LOCATION MAP

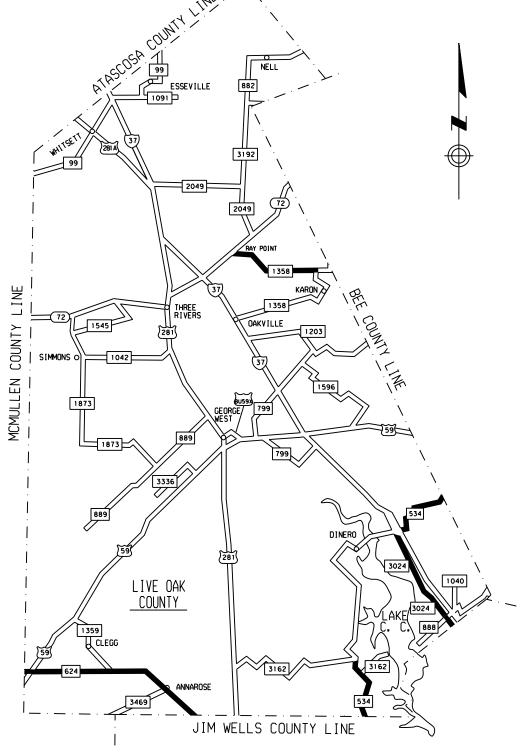


CONT	SECT	JOB		H]GHWAY
0916	00	228	ΙH	137,ETC
DIST		COUNTY		SHEET NO.
CRP		MUECES ET	٢	14

LIVE OAK COUNTY



	of Iransportation								
CONT	SECT JOB HIGHWAY								
0916	00 228 IH3			137,ETC					
DIST		COUNTY		SHEET NO.					
CRP		NUECES, ET	С.	15					



		ALICEMAINT	ENANCE SECTION							
		ALICE MAINT	ENANCE SECTION							
RDWY	RDWY CONTROL SECTION FROM TO BRM ERM MILES									
FM 534 1808-01, 1808-02 FM 3162/ FM 534 Intersection Jim Wells County Line 0604+0.837 0612+0.005 5.505										

	GEORGE WEST MAINTENANCE SECTION										
RDWY	CONTROL SECTION	FROM	TO	BRM	ERM	MILES					
FM 1358	1206-01	SH 72	FM 623	0516-0.021	0522-0.04	7.208					
FM 3024	0074-10	IH 37 South Bound Off Ramp	FM 888	0580-1.948	0586+0.466	8.575					
FM 624	2373-04	McMullen County Line	Jim Wells County Line	0514+0.006	0528+0.004	12.929					
FM 534	1550-01	IH 37	Bee County Line	0592+0.477	0588+0.007	4.434					

Note:
*Prior to striping, the Contractor shall confirm with the Engineer to ensure any seal coat work has been completed before placement of permanent pavement markin

*Prior to striping, the Cont	ractor shall confirm with the Engin	eer to ensure any seal coat work has t	been completed before placement of per	rmanent pavement marking	gs.							
SINTON MAINTENANCE SECTION												
RDWY	CONTROL SECTION	FROM	ТО	BRM	ERM	MILES						
FM 3024	FM 3024 0074-10 FM 888 San Patricio County Line 0586+0.470 0586+1.251 0.78											

RDWY

SH 286 Frontage Roads IH 37

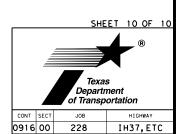
		ROBSTOWN MA	INTENANCE SECTION			
RDWY	CONTROL SECTION	FROM	ТО	BRM	ERM	MILES
IH 69/US 77	0373-01, 0373-10, 0373-02, 0102-02	County Road 52	FM 2826	0147+0.635	N/A	8.898
FM 665	1052-02	US 77	FM 43	0540+1.994	0554+0.894	12.983
FM 70	1088-01, 1558-01	FM 624	SH 44	0604+0.99	0618+0.273	12.15
FM 892	1088-04	FM 2826	FM 665	0616+0.659	0620+1.21	4.621

Note:
*Prior to striping, the Contractor shall confirm with the Engineer to ensure any seal coat work has been completed before placement of permanent pavement markings.

			KINGSVILLE MA	INTENANCE SECTION			
[RDWY	CONTROL SECTION	FROM	TO	BRM	ERM	MILES
ſ	US 77	0102-03	County Road 4	Kleberg County Line	0686+0.362	0686+1.014	0.654
	US 77 NB Frontage Roads	0102-03	FM 70	County Road 4 Exit Ramp	0684+0.313	0686+0.77	2.412
	US 77 SB Frontage Roads	0102-03	County Road 10 Exit Ramp	US 77 On Ramp	0682+0.43	0686+0.78	4.327

		DOCKDORTMAN	AITEN LANGE GEGETON			
		ROCKPORT MAII				
RDWY	CONTROL SECTION	FROM	ТО	BRM	ERM	MILES
SH 361E	2263-02	San Patricio County Line	Ferry	0614+0.029	0620+0.142	5.956

NUECES COUNTY LOCATION MAP

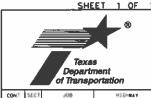


CRP NUECES, ETC.

- 1. Contractor shall prepare pavement surface prior to installing any pavement markings as stated in Item 678, "Pavement Surface Preparation for Markings."
- Contractor should notify TXDOT of work schedule and work location no less than 2
 days in advance prior to performing any type of work. Profile Stripe locations shall be
 performed last, unless approved by the Area Engineer. Work performed without notifying
 TXDOT will not be paid for.
- 3. Work performed without a State Employee present will not be paid for.
- 4. Raised profile pavement markings shall be installed in a method in which Type I thermoplastic shall be installed over the raised profile buttons.



SUGGESTED SEQUENCE OF CONSTRUCTION



•	
	0

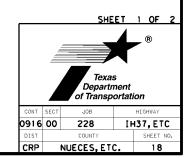
	666	666	666	666	666	666	666	666	666	666	666
	6017	6029	6035	6041	6174	6208	6210	6285	6289	6293	6305
	REFL PAV MRK TY I (W)6"(DOT)(090MIL)	REFL PAV MRK TY I (W) 8" (DOT) (090MIL)	REFL PAV MRK TY I (W) 8" (SLD) (090MIL)	REFL PAV MRK TY I (W)12"(SLD)(090MIL)	REFL PAV MRK TY II (W) 6" (SLD)	REFL PAV MRK TY II (Y) 6" (BRK)	REFL PAV MRK TY II (Y) 6" (SLD)	REF PROF PAV MRK TY I (W)6"(SLD)(090MIL)	REF PROF PAV MRK TY I (Y)6"(SLD)(090MIL)	REF PROF PAV MRK TY I (Y)6"(BRK)(090MIL)	RE PM W/RET REQ TY (W)6"(BRK)(090MIL)
	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF
KARNES AREA OFFICE					•	•					
Karnes Maintenance Section	7.0	255	2.020						ı		6.250
US 181	760	255	2,920								6,250
SH 123	1,175	210	5,715								10,000
SH 80 (SH 123 to FM 81)	420	210	435		60.005	1.520	54.50	60.005	54.500	1.520	4,140
SH 80 (FM 81 to 900FT North of County Road 305)	440	40	1,120		60,985	1,530	54,760	60,985	54,760	1,530	4,140
SH 80 (900FT North of County Road 305 to Wilson CL)	6,750	1,035	3,810		10.005		-1-10			1.500	7,825
Section Total:	9,545	1,540	14,000	0	60,985	1,530	54,760	60,985	54,760	1,530	32,355
Goliad Maintenance Section											
FM 883					1						
FM 2442											
Section Total:	0	0	0	0	0	0	0	0	0	0	0
Bee Maintenance Section											
FM 673	585			70							
SH 359	270		520	70							2,480
US 181 S.B. & N.B. Frontage Roads	210		6,380								15,640
Section Total:	855	0	6,900	70	0	0	0	0	0	0	18,120
TOTALS:	10,400	1,540	20.900	70	60,985	1.530	54,760	60,985	54,760	1.530	50,475
TOTALS:	10,400	1,340	20,900	/0	00,985	1,530	34,700	00,985	34,760	1,330	30,473

	666	666	666	(69	669	(69	((9	((0	669	(69	669
	666 6308	666 6317	666 6320	668	668 6076	668 6077	668 6078	668	668 6085	668 6091	668 6092
	0308	0317	0320	6074	0070	6077	0078	0083	0083	0091	6092
	RE PM W/RET REQ TY I	RE PM W/RET REQ TY I	REPM W/RET REQ TY I	PREFAB PAV MRK TV C	PREFAB PAV MRK TY C	PREFAB PAV MRK TY C	PREFAB PAV MRK TV C	PREFAB PAV MRK TY O			
	(W)6"(SLD)(090MIL)	(Y)6"(BRK)(090MIL)	(Y)6"(SLD)(090MIL)	(W) 12" (SLD)	(W) 24" (SLD)	(W) (ARROW)	(W) (DBL ARROW)	(W) (LNDP ARROW)	(W) (WORD)	(W) (18") (YLD TRI)	(W) (36") (YLD TRI)
	()0 (022)(0301112)	(1)0 (2111)(0301112)	(1)0 (022)(030.112)	(,12 (822)	(,2. (822)	()(()(22111416)	()(221 mate)	()(512)	(11)(10)(122 114)	()(00)(122 114)
	LF	LF	LF	LF	LF	EA	EA	EA	EA	EA	EA
KARNES AREA OFFICE	•	•		•							
Karnes Maintenance Section											
US 181	113,300	4,100	106,200	145	200	30			15		
SH 123	133,600	4,000	147,200		35	23	6		23		5
SH 80 (SH 123 to FM 81)	63,255	1,150	60,430		25	2		4	2	6	
SH 80 (FM 81 to 900FT North of County Road 305)	·				55	6		6	6		
SH 80 (900FT North of County Road 305 to Wilson CL)	123,855	3,825	125,885	810	35	30		6	21		
Section Total	al: 434,010	13,075	439,715	955	350	91	6	16	67	6	5
Goliad Maintenance Section											
FM 883	154,710	25,370	87,540		25						
FM 2442	87,380	14,070	48,450		30						
Section Tota	al: 242,090	39,440	135,990	0	55	0	0	0	0	0	0
Bee Maintenance Section						_			-		
<u>• FM 673</u>	261,360	34,210	315,770		250	5			5		
SH 359	76,880	5,110	37,600			2	2				4
US 181 S.B. & N.B. Frontage Roads	67,550	140	66,450	-	215					0	
Section Total	al: 405,790	39,460	419,820	0	465	7	2	0	5	0	4
TOTAL	1 001 000	01.075	005 525	055	070	98	0	16	72		0
TOTALS	S: 1,081,890	91,975	995,525	955	870	98	8	16	/2	6	9

NOTES:

- ◆ 1. Erradicate and install crosswalk pavement marking in accordance with standard PM(4)-22A included in the plans.
 ✓ 2. Contractor shall ensure that Texas Super 2 Passing Lanes striping is in accordance with standard sheet TS2(PL-1)-23.

SURFACE SUMMARY KARNES CITY AREA OFFICE



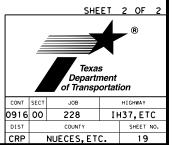
	672	672	672	677	677	677	677	677	677
	6007	6009	6010	6005	6007	6008	6009	6012	6018
	REFL PAV MRKR TY	REFL PAV MRKR TY	REFL PAV MRKR TY	ELIM EXT PAV	ELIM EXT PAV	ELIM EXT PAV	ELIM EXT PAV	ELIM EXT PAV	ELIM EXT PAV
	I-C	II-A-A	II-C-R	MRK & MRKS (12")	MRK & MRKS (24")	MRK & MRKS (ARROW)	MRK & MRKS (DBL ARROW)	MRK & MRKS (WORD)	MRK & MRKS (18")(YLD TRI)
	EA	EA	EA	LF	LF	EA	EA	EA	EA
KARNES AREA OFFICE	DI I	2517				E.T.	Di I	2.7.1	23.1
Karnes Maintenance Section									
US 181	530	2,040		145	200	30		15	
SH 123	505	3,225			35	23	6	23	
SH 80 (SH 123 to FM 81)	230	1,115			25	6		2	6
SH 80 (FM 81 to 900FT North of County Road 305)	270	1,105			55	12		6	
SH 80 (900FT North of County Road 305 to Wilson CL)		2,985		810	35	36		21	
Section Total:	1,535	10,470	0	955	350	107	6	67	6
Goliad Maintenance Section									
FM 883		1,720			25				
FM 2442		980			30				
Section Total:	0	2,700	0	0	55	0	0	0	0
Bee Maintenance Section									
FM 673	30	2,310		66	250	5		5	
SH 359	125	730				2	2		
US 181 S.B. & N.B. Frontage Roads			1,105		215				
Section Total:	155	3,040	1,105	66	465	7	2	5	0
	·							·	
TOTALS:	1,690	16,210	1,105	1,021	870	114	8	72	6

	677	677	678	678	6056	6056
	6019	6028	6002	6004	6002	6001
	ELIM EXT PAV	ELIM EXT PAV	PAV SURF PREP FOR	PAV SURF PREP FOR	PREFORMED	PREFORMED IN-LANE
	MRK & MRKS (36")(YLD TRI)	MRK & MRKS (RUMBLE STRIP)	MRK (6")	MRK (8")	CENTERLINE RUMBLE STRIP	(TRANS) RUMBLE STRIP
	EA	LF	LF	LF	LF	LF
KARNES AREA OFFICE						
Karnes Maintenance Section						
US 181			230,610	3,175		
SH 123	5		295,975	5,715		
SH 80 (SH 123 to FM 81)		4	129,395	645		4
SH 80 (FM 81 to 900FT North of County Road 305)		2	121,855	1,160	400	2
SH 80 (900FT North of County Road 305 to Wilson CL)			268,170	4,845		
Section Total	5	6	1,046,005	15,540	400	6
Goliad Maintenance Section						
FM 883		80	267,260			80
FM 2442			149,900			
Section Total	0	80	417,160	0	0	80
Bee Maintenance Section						
FM 673			611,925			
SH 359	4	160	122,340	520		160
US 181 S.B. & N.B. Frontage Roads			149,780	6,380		
Section Total	4	160	884,045	6,900	0	160
				1		
TOTALS	9	246	2,347,210	22,440	400	246

0

- ◆ 1. Erradicate and install crosswalk pavement marking in accordance with standard PM(4)-22A included in the plans.
 ✓ 2. Contractor shall ensure that Texas Super 2 Passing Lanes striping is in accordance with standard sheet TS2(PL-1)-23.

SURFACE SUMMARY KARNES CITY AREA OFFICE

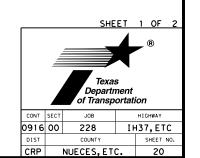


		666 6017	666 6029	666 6035	666 6041	666 6174	666 6208	666 6210	666 6285	666 6289	666 6293	666 6305
	H	0017	0029	0033	0041	01/4	0208	0210	0263	0289	0293	0303
		REFL PAV MRK TY I (W)6"(DOT)(090MIL)	REFL PAV MRK TY I (W) 8" (DOT) (090MIL)	REFL PAV MRK TY I (W) 8" (SLD) (090MIL)	REFL PAV MRK TY I (W)12"(SLD)(090MIL)	REFL PAV MRK TY II (W) 6" (SLD)	REFL PAV MRK TY II (Y) 6" (BRK)	REFL PAV MRK TY II (Y) 6" (SLD)	REF PROF PAV MRK TY (W)6"(SLD)(090MIL)	REF PROF PAV MRK TY (Y)6"(SLD)(090MIL)	REF PROF PAV MRK TY I (Y)6"(BRK)(090MIL)	RE PM W/RET REQ TY (W)6"(BRK)(090MIL)
	Ĺ					` ' ` '	` ′ ` ` ′					
		LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF
SINTON AREA OFFICE												
Refugio Maintenance Section												
FM 2441						151,545	15,800	39,865	151,545	39,865	15,800	
FM 774						190,100	23,400	40,510	190,100	40,510	23,400	
	Section Total:	0	0	0	0	341,645	39,200	80,375	341,645	80,375	39,200	0
							, , , , , , , , , , , , , , , , , , ,	, , , , , , , , , , , , , , , , , , ,		,		
Sinton Maintenance Section												
FM 893				55			3515	28155		28155	3515	
FM 1074							5165	10450		10450	5165	
FM 3024												
BS 359B				35								
IH 37 Access Road South Bound		100	360	1290	125							1845
Spur 459		100										1845
IH 37 East Frontage Road												
IH 37		1445	1500	13545	775							58690
	Section Total:	1,645	1,860	14,925	900	0	8,680	38,605	0	38,605	8,680	62,380
Rockport Maintenance Section												
BU 35L				1.800		76,550	8.840	41,200	76,550	41,200	8,840	130
SH 188 (SH 35 to BU 35L)				1,305		14,350	1.075	6,825	14.350	6,825	1,075	130
FM 136				1,505	15	11,550	1,070	0,025	11,550	0,020	1,070	
SH 361E			265	3,020	**	59,100	4,550	42,660	59.100	42,660	4,550	1,310
SH 188 (FM 631 to Aransas County Lin	ne)		355	-,		,,,	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	,000	,,,	,000	-,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	2,770
County Bu	Section Total:	0	620	6,125	15	150,000	14,465	90,685	150,000	90,685	14,465	4,210
	TOTALS:	1.645	2.480	21.050	915	491.645	62.345	209,665	491,645	209,665	62.345	66,590
	TOTALS:	1,043	2,400	21,030	713	491,043	02,343	209,003	491,043	209,003	02,343	00,390

	666	666	666	668	668	668	668	668	668	672
	6308	6317	6320	6074	6076	6077	6085	6089	6092	6007
	RE PM W/RET REQ TY I (W)6"(SLD)(090MIL)	RE PM W/RET REQ TY I (Y)6"(BRK)(090MIL)	RE PM W/RET REQ TY I (Y)6"(SLD)(090MIL)	PREFAB PAV MRK TY C (W) 12" (SLD)	PREFAB PAV MRK TY C (W) 24" (SLD)	PREFAB PAV MRK TY C (W) (ARROW)	PREFAB PAV MRK TY C (W) (WORD)	PREFAB PAV MRK TY C (W) (RR XING)	PREFAB PAV MRK TY C (W) (36") (YLD TRI)	REFL PAV MRKR I-C
	LF	LF	LF	LF	LF	EA	EA	EA	EA	EA
TON AREA OFFICE									•	
igio Maintenance Section										
FM 2441					50					
FM 774					30					
Section Total	: 0	0	0	0	80	0	0	0	0	0
on Maintenance Section	1	I			12			1		1
FM 893 FM 1074					12					
FM 1074 FM 3024		4950	16800		12					
BS 359B	8045	1355	10700		210			4		
IH 37 Access Road South Bound	8220	1333	8000	400	40			'	10	
Spur 459	8220	430	7975	100	25				24	
IH 37 East Frontage Road		780	4885		40					
IH 37	348660		232440	3000		2	6			
Section Total	373,145	7,515	280,800	3,400	339	2	6	4	34	0
kport Maintenance Section BU 35L	1			T	175	16	16	2	T	99
SH 188 (SH 35 to BU 35L)					40	8	6	2		66
FM 136	113,105	13,935	24.495		12	0	0			00
SH 361E	115,105	15,255	2.,		375	22	9	6		220
SH 188 (FM 631 to Aransas County Line)	99,275	8,910	35,860		50	2				120
Section Total	212,380	22,845	60,355	0	652	48	31	8	0	505
TOTALS	585,525	30,360	341.155	3,400	1.071	50	37	12	34	505
TUTALS	, 363,343	30,300	341,133	3,400	1,0/1	30	3/	12	1 34	1 303

- 1. Erradicate and install crosswalk pavement marking in accordance with standard PM(4)-22A included in the plans.
 ▲ 2. Install two wrong way arrows on all exit ramps within described limits. Refer to standard sheet FPM(1)-22 included in the plans. Install gore chevron markings on all exit gores within described limits. Refer to standard sheet FPM(5)-22 included in the plans.
 ✓ 3. Contractor shall ensure that Texas Super 2 Passing Lanes striping is in accordance with standard sheet TS2(PL-1)-23.

SURFACE SUMMARY SINTON AREA OFFICE



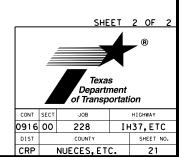
	672	672	677	677	677	677	677	677	678	678
	6009	6010	6007	6008	6012	6016	6019	6028	6002	6004
	REFL PAV MRKR TY II-A-A	REFL PAV MRKR TY II-C-R	ELIM EXT PAV MRK & MRKS (24")	ELIM EXT PAV MRK & MRKS (ARROW)	ELIM EXT PAV MRK & MRKS (WORD)	ELIM EXT PAV MRK & MRKS (RR XING)	ELIM EXT PAV MRK & MRKS (36")(YLD TRI)	ELIM EXT PAV MRK & MRKS (RUMBLE STRIP)	PAV SURF PREP FOR MRK (6")	PAV SURF PREP FO MRK (8")
	EA	EA	LF	EA	EA	EA	EA	LF	LF	LF
NTON AREA OFFICE										
fugio Maintenance Section										
FM 2441	1,265		50			1		80	207,210	
FM 774	1,500		30					80	254,010	
Section Total:	2,765	0	80	0	0	0	0	160	461,220	0
ton Maintenance Section FM 893	370		12						31,670	55
FM 1074	390								15,615	
FM 3024	385		12						21,750	
BS 359B	400	45				4			20,100	35
IH 37 Access Road South Bound		160	40				10		18,165	1,650
Spur 459	115	50	25				24		18,570	
IH 37 East Frontage Road	100		40	1					5,665	
IH 37 Section Total:	1,760	4225 4,480	129	2	6	1	34	0	641,235 772,770	15,045 16,785
	1,700	4,400	129	2	1 0	4	34	0	772,770	10,783
ckport Maintenance Section BU 35L	1,380		72	16	16	2			126,720	1,800
SH 188 (SH 35 to BU 35L)	425		40	8	6	2			22,250	1,305
FM 136	955		12		·				151,535	1,000
SH 361E	1,205		375	22	9	6			107,620	3,285
SH 188 (FM 631 to Aransas County Line)	895		50	2					146,815	355
Section Total:	4,860	0	549	48	31	8	0	0	554,940	6,745
									·	
TOTALS:	9,385	4,480	758	50	37	12	34	160	1,788,930	23,530

	6056	6056
	6002	6001
	PREFORMED	PREFORMED IN-LANI
	CENTERLINE RUMBLE	(TRANS) RUMBLE STR
	STRIP	
	LF	LF
SINTON AREA OFFICE		
Refugio Maintenance Section		T 00
FM 2441	6500	80
FM 774	10690	80
Section Total:	17,190	160
FM 893 FM 1074 FM 3024	1440 1900	
BS 359B		
IH 37 Access Road South Bound		
Spur 459		
IH 37 East Frontage Road		
IH 37		
Section Total:	3,340	0
	,	•
Rockport Maintenance Section		
BU 35L	635	
SH 188 (SH 35 to BU 35L)	405	
FM 136		
SH 361E	800	
SH 188 (FM 631 to Aransas County Line)		
Section Total:	1,840	0
TOTALS:	22,370	160

- ◆ 1. Erradicate and install crosswalk pavement marking in accordance with standard PM(4)-22A included in the plans.
 ▲ 2. Install two wrong way arrows on all exit ramps within described limits. Refer to standard sheet FPM(1)-22 included in the plans. Install gore chevron markings on all exit gores within described limits. Refer to standard sheet FPM(5)-22 included in the plans.

 3. Contractor shall ensure that Texas Super 2 Passing Lanes striping is in accordance with standard sheet TS2(PL-1)-23.

SURFACE SUMMARY SINTON AREA OFFICE

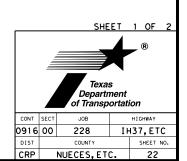


		666	666	666	666	666	666	666	666	666	666	666
		6029	6035	6041	6174	6208	6210	6285	6289	6293	6305	6308
		**=	0.000						0=07	0=70		
		REFL PAV MRK TY I	REFL PAV MRK TY I	REFL PAV MRK TY I	REFL PAV MRK TY II	REFL PAV MRK TY II	REFL PAV MRK TY II	REF PROF PAV MRK TY	REE PROE PAV MRK TY	REE PROF PAV MRK TY	RE PM W/RET REO TY I	RE PM W/RET REO TY I
		(W) 8" (DOT) (090MIL)	(W) 8" (SLD) (090MIL)	(W)12"(SLD)(090MIL)	(W) 6" (SLD)	(Y) 6" (BRK)	(Y) 6" (SLD)	(W)6"(SLD)(090MIL)	(Y)6"(SLD)(090MIL)	(Y)6"(BRK)(090MIL)	(W)6"(BRK)(090MIL)	(W)6"(SLD)(090MIL)
		(W)8 (BO1)(0)0WIL)	(W)8 (SED)(0)0ME)	(W)12 (SED)(090MIE)	(W)O (SLD)	(1)0 (BKK)	(1)0 (SED)	(W)0 (SED)(070MIE)	(1)0 (SEB)(0)0WIE)	(1)0 (BRR)(0)0MIL)	(W)0 (BRR)(050MIL)	(W)0 (SED)(050MIE)
		LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF
	ALLON AND A CONTROL	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF
	ALICE AREA OFFICE											
	George West Maintenance Section											
	FM 1358				76,120	4,950	50,750	76,120	50,750	4,950		
	FM 3024		155		90,555	5,105	64,315	90,555	64,315	5,105		
	FM 624 (McMullen County Line to Jim Wells County Line)				136,525	12,900	72,610	136,525	72,610	12,900		
	FM 534 (IH 37 to FM 796)				52,320	3,300	29,195	52,320	29,195	3,300		
	Section Total:	0	155	0	355,520	26,255	216,870	355,520	216,870	26,255	0	0
	50000110000		100	,	000,020	20,200	210,070	555,525	210,070	20,200		·
	Alice Maintenance Section											
	FM 534 (FM 3162/ FM 534 Intersection to Jim Wells County Line)							I				59,120
•	SH 44 (US 281 to FM 1931)	100	4.095								1,105	44,200
	SH 44 (FM 1931 to Nueces County Line)	100	10.660		78,700		78,700	78,700	78,700		20.000	44,200
ŏ	FM 624 (Live Oak County Line to Nueces County Line)		3,890		201,280	22,000	101,125	201,280	101,125	22,000	3,345	
3	FM 624 (Live Oak County Line to Nueces County Line) FM 665		1,840		87.420	11,320	52,790	87,420	52,790	11,320	3,343	
•												
	FM 625		110		122,000	13,730	31,730	122,000	31,730	13,730		
	FM 1554				61,100	6,855	9,860	61,100	9,860	6,855		
	FM 2507				10,000	1,250	1,900	10,000	1,900	1,250		
	FM 534 (Live Oak County Line to SH 359)		400									54,385
	FM 3376		665		45,090	5,635	8,590	45,090	8,590	5,635		
	FM 70 (SH 359 to FM 624)				95,040	8,950	45,085	95,040	45,085	8,950		
	FM 2295		1,600									93,360
•	SH 359	70	1,710								750	216,830
	FM 1931		2,475	165							3,360	24,000
	FM 738											43,360
	Section Total:	170	27,445	165	700,630	69,740	329,780	700,630	329,780	69,740	28,560	535,255
			,		•	Ź	,		,		·	·
	Kingsville Maintenance Section											
•	US 77	65	16,810	330							17,460	72,210
<u>a</u>	BU 77V		3,470								8,600	34,400
	FM 1717		5,170								2,130	17,020
•	SH 141		9,210								400	133,725
	US 281 (County Road 418 to Brooks County Line)		4,600								14,190	46,160
•	US 77 N.B. Frontage Road (County Road 4 Exit Ramp to FM 70)		1,465								4,445	17,785
7	US 77 S.B. Frontage Road (County Road 10 Exit Ramp US 77 on	80	3,310								5,095	20,375
_	2 \ 1	145	38,865	330	0	0	0	0	0	0	52,320	341,675
	Section Total:	145	38,865	330	U	U	1 0	1 0	1 0	1 0	32,320	341,6/3
	mom . r o	217	66.465	40.5	1.056.150	07.007	546.650	1.056.150	546.650	05.005	00.000	076 020
	TOTALS:	315	66,465	495	1,056,150	95,995	546,650	1,056,150	546,650	95,995	80,880	876,930

	666	666	668	668	668	668	668	668	668
	6317	6320	6074	6076	6077	6078	6085	6089	6092
	RE PM W/RET REQ TY I	RE PM W/RET REQ TY I	PREFAB PAV MRK TY C	PREFAB PAV MRK TY					
	(Y)6"(BRK)(090MIL)	(Y)6"(SLD)(090MIL)	(W) 12" (SLD)	(W) 24" (SLD)	(W) (ARROW)	(W) (DBL ARROW)	(W) (WORD)	(W) (RR XING)	(W) (36") (YLD TRI)
	LF	LF	LF	LF	EA	EA	EA	EA	EA
LICE AREA OFFICE									
eorge West Maintenance Section									
FM 1358				35					
FM 3024				40					8
FM 624 (McMullen County Line to Jim Wells County Line)				55					
FM 534 (IH 37 to FM 796)				12					
Section Total:	0	0	0	142	0	0	0	0	8
Alice Maintenance Section									
FM 534 (FM 3162/ FM 534 Intersection to Jim Wells County Line)	4,410	57,305		12					
SH 44 (US 281 to FM 1931)	1,105	44,200	1,385	4,015	24	1	24	8	
SH 44 (FM 1931 to Nueces County Line)	1,100	11,200	3,100	1,930	57	1	59		275
FM 624 (Live Oak County Line to Nueces County Line)			550	260	28		19		11
FM 665			330	150	10		8		***
FM 625			30	40	1		1		
FM 1554			30	40	2		2		
FM 2507				12			2		
FM 534 (Live Oak County Line to SH 359)	3,745	40,255		12	4		4		
FM 3376	5,7 15	10,255		90	4		4		
FM 70 (SH 359 to FM 624)				24	2		2		
FM 2295	10,345	56,330		12	8		8		
SH 359	24,750	85,695		290	28		10		
FM 1931	3,740	23,000		90	13		8	4	5
FM 738	3,390	15,970		26	10		Ŭ.	·	, and the second
Section Total:		322,755	5,065	6,991	181	1	149	12	291
	,	,	,	,					
Lingsville Maintenance Section US 77		72.210	2,000	I	T.	I	1	I	I
US // BU 77V		72,210 11,200	2,000 860	1.000	12		14		11
	2.120		860	1,000 965	43		14		11
FM 1717 SH 141	2,130 1,675	17,020			16		16	2	
		16,710		15	6		6	2	260
US 281 (County Road 418 to Brooks County Line)	2,750	46,160	200	240	34		31		260
US 77 N.B. Frontage Road (County Road 4 Exit Ramp to FM 70) US 77 S.B. Frontage Road (County Road 10 Exit Ramp US77 on		17,785		240	8		6		20
	2.555	20,375	600	2.220	8		8	1	201
Section Total:	6,555	201,460	3,660	2,220	115	0	81	3	291
TOTALS:	58,040	524.215	8,725	9,353	296	1	230	15	590

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 2. Install two wrong way arrows on all exit ramps within described limits. Refer to standard sheet FPM(1)-22 included in the plans. Install gore chevron markings on all exit gores within described limits. Refer to standard sheet FPM(5)-22 included in the plans.

SURFACE SUMMARY ALICE AREA OFFICE

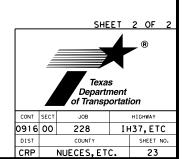


	668	668	672	672	672	677	677	677	677	677	677
	6106	6108	6007	6009	6010	6005	6007	6008	6009	6012	6016
	PREFAB PAV MRK TY (Y) (12") (SLD)	C PREFAB PAV MRK TY (Y) (24") (SLD)	REFL PAV MRKR TY I-C	REFL PAV MRKR TY II-A-A	REFL PAV MRKR TY II-C-R	ELIM EXT PAV MRK & MRKS (12")	ELIM EXT PAV MRK & MRKS (24")	ELIM EXT PAV MRK & MRKS (ARROW)	ELIM EXT PAV MRK & MRKS (DBL ARROW)	ELIM EXT PAV MRK & MRKS (WORD)	ELIM EXT PAV MRK & MRKS (RR XING
	LF	LF	EA	EA	EA	LF	LF	EA	EA	EA	EA
ALICE AREA OFFICE	•	•	'					'			
George West Maintenance Section											
FM 1358				880			35				
FM 3024				1,060			40				
FM 624 (McMullen County Line to Jim Wells County Line)				ĺ ,			55				
FM 534 (IH 37 to FM 796)							12				
Section To	al: 0	0	0	1,940	0	0	142	0	0	0	0
	-	<u>'</u>		· · · · · · · · · · · · · · · · · · ·				1	-		'
Alice Maintenance Section											
FM 534 (FM 3162/ FM 534 Intersection to Jim Wells County Lin	ne)			920			12				
SH 44 (US 281 to FM 1931) SH 44 (FM 1931 to Nueces County Line) FM 624 (Live Oak County Line to Nueces County Line) FM 665	360			1,506	685	360	4,015	24	1	24	8
SH 44 (FM 1931 to Nueces County Line)		55	570	-,	984	3,100	1,985	57		59	
FM 624 (Live Oak County Line to Nueces County Line)	700		235	2,800		0	260	28		19	
FM 665			35	1,235		-	150	10		8	
FM 625				1.105		30	40	1		1	
FM 1554				400		30	40	2		2	
FM 2507				110			12			-	
FM 534 (Live Oak County Line to SH 359)		15	25	700			15	4		4	
FM 3376		15		375			90	4	+	4	
FM 70 (SH 359 to FM 624)				1,170			24	2		2	
FM 2295		_	40	1,540			12	8	+	8	
SH 359	250		75	2,860	35	250	290	28		10	
FM 1931	250		30	845	33	230	290	13		8	4
FM 738			30	370			26	15		0	-
Section To	al: 1,310	70	1,010	15,936	1,704	3,740	6,971	181	1	149	12
	ai: 1,310	/0	1,010	13,930	1,704	3,740	0,971	181	1	149	12
Kingsville Maintenance Section US 77			1		3,625	0	T				T
US 77 BU 77V FM 1717			925	925	3,023	1,440	432	43		14	
FM 1717			430	420		1,440	145	16	 	16	-
SH 141			195	1,675		460	145	6	 	6	2
US 281 (County Road 418 to Brooks County Line)			230	1,6/5			13	34		31	<u> </u>
	w			1,155	260		340		 		
US 77 N.B. Frontage Road (County Road 4 Exit Ramp to FM 70 US 77 S.B. Frontage Road (County Road 10 Exit Ramp US 77 County R	2)		75	25	260		240	8	1	6	
			55	25	585			8	1	8	1
Section To	al: 0	0	1,910	4,200	4,470	1,920	832	115	0	81	3
TOTAL	S: 1,310	70	2,920	22,076	6,174	5,660	7,945	296	1	230	15

	677	677	678	678	6056	6056
	6019	6028	6002	6004	6002	6001
	0017	0020	0002	000.	0002	0001
	ELIM EXT PAV MRK & MRKS (36")(YLD TRI)	ELIM EXT PAV MRK & MRKS (RUMBLE STRIP)	PAV SURF PREP FOR MRK (6")	PAV SURF PREP FOR MRK (8")	PREFORMED CENTERLINE RUMBLE STRIP	PREFORMED IN-LAI (TRANS) RUMBLE ST
	EA	LF	LF	LF	LF	LF
LICE AREA OFFICE	EA	LF	Lr	LF	LF	LF
ALICE AREA OFFICE						
George West Maintenance Section						
FM 1358			131,820		635	
FM 3024	8		159,975	155	715	
FM 624 (McMullen County Line to Jim Wells County Line)			222,035		1,780	
FM 534 (IH 37 to FM 796)			84,815		605	
Section Total	: 8	0	598,645	155	3,735	0
Alice Maintenance Section						
M 534 (FM 3162/ FM 534 Intersection to Jim Wells County Line)	(120,835			
SH 44 (US 281 to FM 1931)			90,610	4,195		
SH 44 (FM 1931 to Nueces County Line)	275		177,400	10,660		
FM 624 (Live Oak County Line to Nueces County Line)	11		327,750	3,890	5,990	
FM 665			151,530	1,840	2.085	
FM 625			167,460	110	4,740	
FM 1554			77,815		1,795	
FM 2507			13,150		390	
FM 534 (Live Oak County Line to SH 359)			98,385	400	350	
FM 3376			59.315	665	2,210	
FM 70 (SH 359 to FM 624)		160	149,075	003	1.950	160
FM 2295		100	160,035	1,600	1,750	100
SH 359			328,025	1,780		+
FM 1931	5		54,100	2,475		+
FM 738	,		62,720	2,773		
Section Total	: 291	160	2,038,205	27,615	19,160	160
Section Total	. 291	100	2,038,203	27,013	19,100	100
" "I M : (C /)						
Cingsville Maintenance Section	1	T	161.000	16.075	T	T
US 77	1,1		161,880	16,875		1
BU 77V	11		54,200	3,470	-	
FM 1717			38,300	2210		
SH 141	1 200		152,510	9,210		
US 281 (County Road 418 to Brooks County Line)	260		109,260	4,600		1
US 77 N.B. Frontage Road (County Road 4 Exit Ramp to FM 70)	20		40,015	1,465		
US 77 S.B. Frontage Road (County Road 10 Exit Ramp US77 on			45,845	3,390		
Section Total	: 291	0	602,010	39,010	0	0
TOTALS	: 590	160	3,238,860	66,780	22,895	160

- 1. Erradicate and install crosswalk pavement marking in accordance with standard PM(4)-22A included in the plans.
 2. Install two wrong way arrows on all exit ramps within described limits. Refer to standard sheet FPM(1)-22 included in the plans. Install gore chevron markings on all exit gores within described limits. Refer to standard sheet FPM(5)-22 included in the plans.

SURFACE SUMMARY ALICE AREA OFFICE



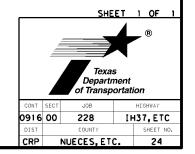
	666	666	666	666	666	666	666	666	666	666	666
	6017	6029	6035	6041	6174	6208	6210	6285	6289	6293	6305
	(W)6"(DOT)(090MIL) (W) 8" (DOT) (090MI	REFL PAV MRK TY I (W) 8" (DOT) (090MIL)	REFL PAV MRK TY I (W) 8' (SLD) (090MIL)	REFL PAV MRK TY I (W)12"(SLD)(090MIL)	REFL PAV MRK TY II (W) 6" (SLD)	REFL PAV MRK TY II (Y) 6" (BRK)	REFL PAV MRK TY II (Y) 6" (SLD)	REF PROF PAV MRK TY I (W)6"(SLD)(090MIL)	REF PROF PAV MRK TY I (Y)6"(SLD)(090MIL)	REF PROF PAV MRK TY I (Y)6"(BRK)(090MIL)	RE PM W/RET REQ T (W)6"(BRK)(090MIL
	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF
CORPUS CHRISTI AREA OFFICE											
Corpus Christi Maintenance Section											
SH 286 S.B. & N.B. Frontage Roads	435	2,255	20,705	2,360							19,500
IH 37			34,000	2,000							71,500
Section Total:	435	2,255	54,705	4,360	0	0	0	0	0	0	91,000
Robstown Maintenance Section											
IH 69/US 77			18,000	500							23,500
FM 665			4,365								,
FM 70					128,835	13,980	20,415	128,835	20,415	13,980	
FM 892					49,000	5,820	1,220	49,000	1,220	5,820	
Section Total:	0	0	22,365	500	177,835	19,800	21,635	177,835	21,635	19,800	23,500
TOTAL C	42.5	2.255	77.070	4.000	155 025	10.000	21.625	155.025	21.625	10.000	114,500
TOTALS:	435	2,255	77,070	4.860	177.835	19,800	21.635	177.835	21.635	19,800	

		666	666	666	668	668	668	668	668	668	668	672
		6308	6317	6320	6074	6076	6077	6078	6080	6085	6106	6007
		RE PM W/RET REQ TY I (W)6"(SLD)(090MIL)	RE PM W/RET REQ TY I (Y)6"(BRK)(090MIL)	RE PM W/RET REQ TY I (Y)6"(SLD)(090MIL)	PREFAB PAV MRK TY C (W) 12" (SLD)	PREFAB PAV MRK TY C (W) 24" (SLD)	PREFAB PAV MRK TY C (W) (ARROW)	PREFAB PAV MRK TY C (W) (DBL ARROW)	PREFAB PAV MRK TY C (W) (UTURN ARROW)	PREFAB PAV MRK TY C (W) (WORD)	PREFAB PAV MRK TY C (Y) (12") (SLD)	REFL PAV MRKR T I-C
		LF	LF	LF	LF	LF	EA	EA	EA	EA	LF	EA
ORPUS CHRISTI AREA OFFICE												
orpus Christi Maintenance Section												
SH 286 S.B. & N.B. Frontage Ro	oads	110,470	2,270	96,920	13,120	1,860	110	57	20	131		400
IH 37		214,500		143,000	4,700						4,700	1
	Section Total:	324,970	2,270	239,920	17,820	1,860	110	57	20	131	4,700	400
obstown Maintenance Section												
IH 69/US 77		94,400		94,400	2,200							
FM 665		131,650	25,755	107,455	,	65	15			15	3,750	
FM 70		· · · · · · · · · · · · · · · · · · ·				20						
FM 892						15						
	Section Total:	226,050	25,755	201,855	2,200	100	15	0	0	15	3,750	0

	672	672	677	677	677	677	677	678	678	6056
	6009	6010	6007	6008	6009	6012	6036	6002	6004	6002
	REFL PAV MI II-A-A	RKR TY REFL PAV MRKR TY II-C-R	ELIM EXT PAV MRK & MRKS (24")	ELIM EXT PAV MRK & MRKS (ARROW)	ELIM EXT PAV MRK & MRKS (DBL ARROW)	ELIM EXT PAV MRK & MRKS (WORD)	ELIM EXT PAV MRK & MRKS (UTURN ARROW)	PAV SURF PREP FOR MRK (6")	PAV SURF PREP FOR MRK (8")	PREFORMED CENTERLINE RUMB STRIP
	EA	EA	LF	EA	EA	EA	EA	LF	LF	LF
CORPUS CHRISTI AREA OFFICE		-	-	-				_	-	
Corpus Christi Maintenance Section										
SH 286 S.B. & N.B. Frontage Roads	500	1,315	1,860	110	57	131	20	229,595	22,960	
IH 37		9,430						429,000	34,000	
Sec	tion Total: 500	10,745	1,860	110	57	131	20	658,595	56,960	0
Robstown Maintenance Section										
IH 69/US 77		2,430						212,300	18,000	
			65	15		15		264,860	4,365	
FM 665	2,730		00	15		13		204,000		
FM 665 FM 70	2,730		20	15		13		163,230	4,303	4,390
	2,730		20	15		13			4,303	4,390 2,900
FM 70 FM 892	2,730 tion Total: 2,730		20 15 100	15	0	15	0	163,230	22,365	

- ◆ 1. Erradicate and install crosswalk pavement marking in accordance with standard PM(4)-22A included in the plans.
 ★ 2. Install two wrong way arrows on all exit ramps within described limits. Refer to standard sheet FPM(1)-22 included in the plans. Install gore chevron markings on all exit gores within described limits. Refer to standard sheet FPM(5)-22 included in the plans.

SURFACE SUMMARY CORPUS CHRISTI AREA OFFICE



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

WORKER SAFETY NOTES:

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

COMPLIANT WORKZONE TRAFFIC CONTROL DEVICES

- 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).

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



Division Standard

BARRICADE AND CONSTRUCTION GENERAL NOTES AND REQUIREMENTS

BC(1)-21

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© T×D0T	November 2002	CONT	SECT	JOB		H	GHWAY
4-03	REVISIONS 7-13	0916	00	228		IH3	7, ETC
9-07	8-14	DIST		COUNTY			SHEET NO.
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A F							

ing Proctice Act". No warranty of s no responsibility for the convers amages resulting from its use.

- Texas" manual for sign details. The Engineer may omit the advance warning signs on low volume crossroads. The Engineer will determine whether a road is low volume as per TMUTCD Part 5. This information shall be shown in the plans.
- Based on existing field conditions, the Engineer/Inspector may require additional signs such as FLAGGER AHEAD, LOOSE GRAVEL, or other appropriate signs. When additional signs are required, these signs will be considered port of the minimum requirements. The Engineer/Inspector will determine the proper location and spacing of any sign not shown on the BC sheets, Traffic Control Plan sheets or the Work Zone Standard Sheets.
- The "ROAD WORK NEXT X MILES" (G20-laT) sign shall be required at high volume crossroads to advise motorists of the length of construction in either direction from the intersection. The Engineer will determine whether a roadway is considered high volume.
- Additional traffic control devices may be shown elsewhere in the plans for higher volume crossroads.
- When work occurs in the intersection area, appropriate traffic control devices, as shown elsewhere in the plans or as determined by the Engineer/Inspector, shall be in place.

BEGIN T-INTERSECTION WORK ZONE * * G20-9TP * * R20-5T FINES DOURI I * * R20-5aTP ROAD WORK <>> NEXT X MILES END * * G20-26T WORK ZONE G20-1bTI INTERSECTED 1000'-1500' - Hwy 1 Block - City 1000'-1500' - Hwy 1 Block - City ROADWAY \Rightarrow ROAD WORK G20-16TR NEXT X MILES => WORK ZONE G20-2bT ** G20-5T WORK * * G20-9TP ZONE TDACE G20-6T * * R20-5T FINES DOUBLE END ROAD WORK * * R20-50TP G20-2

CSJ LIMITS AT T-INTERSECTION

- 1. The Engineer will determine the types and location of any additional traffic control devices, such as a flagger and accompanying signs, or other signs, that should be used when work is being performed at or near an intersection.
- 2. If construction closes the road at a T-intersection, the Contractor shall place the "CONTRACTOR NAME"(G20-6T) sign behind the Type 3 Barricades for the road closure (see BC(10) also). The "ROAD WORK NEXT X MILES" left arrow(G20-1bTL) and "ROAD WORK NEXT X MILES" right arrow (G20-1bTR)" signs shall be replaced by the detour signing called for in the plans.

SAMPLE LAYOUT OF SIGNING FOR WORK BEGINNING AT THE CSJ LIMITS

TYPICAL CONSTRUCTION WARNING SIGN SIZE AND SPACING 1,5,6

SIZE

onventional

Road

48" x 48"

36" × 36"

48" x 48"

SPACING

xpressway/ Freeway		Posted Speed	Sign∆ Spacing "X"
		MPH	Feet (Apprx.)
48" × 48"		30	120
70 2 40		35	160
		40	240
		45	320
48" × 48"		50	400
		55	500 ²
		60	600 ²
		65	700 ²
48" × 48"		70	800 ²
		75	900 ²
		80	1000 ²
	ı	*	* 3

¥ For typical sign spacings on divided highways, expressways and freeways, see Part 6 of the "Texas Manual on Uniform Traffic Control Devices" (TMUTCD) typical application diagrams or TCP Standard Sheets.

△ Minimum distance from work area to first Advance Warning sign nearest the work area and/or distance between each additional sign.

GENERAL NOTES

Sign

Number

or Series

CW201 CW21

CW22

CW23

CW25

CW14

CW1, CW2,

CW7. CW8.

CW9, CW11

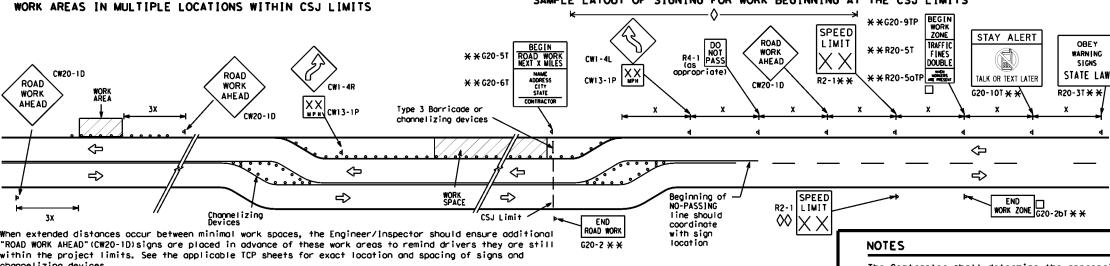
CW3, CW4,

CW5. CW6.

CW10, CW12

CW8-3,

- Special or larger size signs may be used as necessary.
- 2. Distance between signs should be increased as required to have 1500 feet advance warning.
- 3. Distance between signs should be increased as required to have 1/2 mile or more advance warning.
- 4. 36" x 36" "ROAD WORK AHEAD" (CW20-1D) signs may be used on low volume crossroads at the discretion of the Engineer as per TMUTCD Part 5. See Note 2 under "Typical Location of Crossroad Signs".
- 5. Only diamond shaped warning sign sizes are indicated.
- 6. See sign size listing in "TMUTCD", Sign Appendix or the "Standard Highway Sign Designs for Texas" manual for complete list of available sign design



AMPLE LAYOUT OF SIGNING FOR WORK BEGINNING DOWNSTREAM OF THE CSJ LIMITS

ZONE STAY ALERT OBEY SPEED ROAD WORK * *G20-5T ROAD LIMIT ROAD ROAD X XR20-5T SIGNS WORK CLOSED R11-2 WORK DOUBL STATE LAW /っ MILE ALK OR TEXT LATER AHEAD X X R20-5aTP MEN MICHIERS * *G20-6T R20-3T R2-1 CW20-1D G20-10 Barricade or CW13-1P CW20-1E channelizing 2:16:10 devices -CSJ Limi Channelizing Devices ➾ SPEED R2-1 END ROAD WORK LIMIT END 🗆 WORK ZONE G20-25T * G20-2 * *

The Contractor shall determine the appropriate distance to be placed on the G20-1 series signs and "BEGIN ROAD WORK NEXT X MILES" (G20-5T) sign for each specific project. This distance shall replace the "X" and shall be rounded to the nearest whole mile with the approval of the Engineer.

The "BEGIN WORK ZONE" (G20-9TP) and "END WORK ZONE" (G20-2b) shall be used as shown on the sample layout when advance signs are required outside the CSJ Limits. They inform the motorist of entering or leaving a part of the work zone lying outside the CSJ Limits where traffic fines may double if workers are present.

CSJ limit signing is required for highway construction and maintenance work, with the exception of mobile operations.

Area for placement of "ROAD WORK AHEAD" (CW20-1D) sign and other signs or devices as called for on the Traffic

No decimals shall be used.

Contractor will install a regulatory speed limit sign at the end of the work zone.

	LEGEND
I	Type 3 Barricade
000	Channelizing Devices
þ	Sign
x	See Typical Construction Warning Sign Size and Spacing chart or the TMUTCD for sign spacing requirements.

SHEET 2 OF 12

Texas Department of Transportation

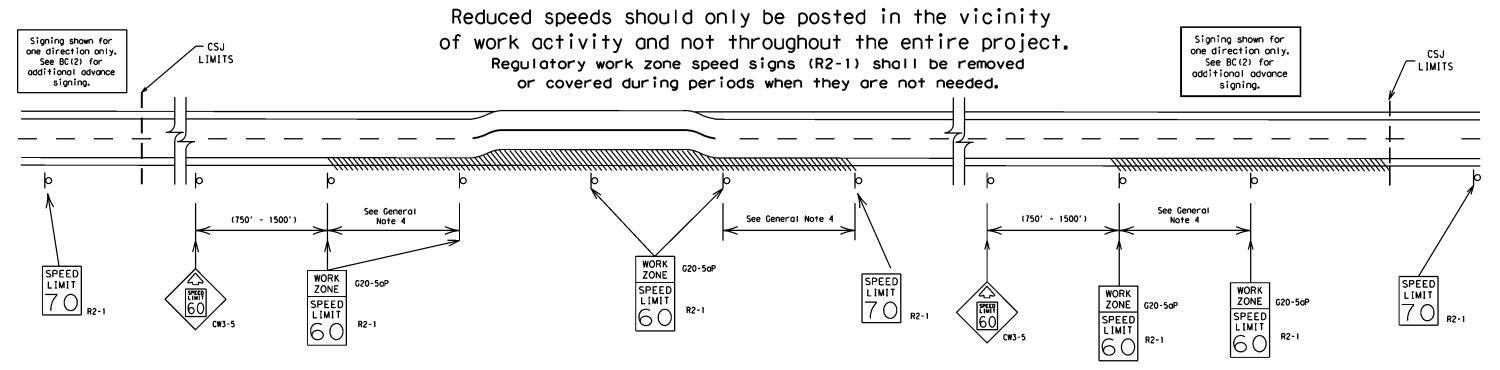
BARRICADE AND CONSTRUCTION PROJECT LIMIT

BC(2)-21

7-13	5-21	CRP	N	IUECES, I	ETC	:.	26
9-07	8-14	DIST		COUNTY		SHEET NO.	
REVISIONS		0916	00 228		IH37, ETC		
) T×DOT	November 2002	CONT	SECT	JOB		H	HIGHWAY
LE:	bo-21.dgn	DN: T	<d0t< td=""><td>ck: TxDOT</td><td>DW:</td><td>T×DOT</td><td>ck: TxDOT</td></d0t<>	ck: TxDOT	DW:	T×DOT	ck: TxDOT

TYPICAL APPLICATION OF WORK ZONE SPEED LIMIT SIGNS

Work zone speed limits shall be regulatory, established in accordance with the "Procedures for Establishing Speed Zones," and approved by the Texas Transportation Commission, or by City Ordinance when within Incorporated City Limits.



GUIDANCE FOR USE:

LONG/INTERMEDIATE TERM WORK ZONE SPEED LIMITS

This type of work zone speed limit should be included on the design of the traffic control plans when restricted geometrics with a lower design speed are present in the work zone and modification of the geometrics to a higher design speed is not feasible.

Long/Intermediate Term Work Zone Speed Limit signs, when approved as described above, should be posted and visible to the motorist when work activity is present. Work activity may also be defined as a change in the roadway that requires a reduced speed for motorists to safely negotiate the work area, including:

- a) rough road or damaged pavement surface
- b) substantial alteration of roadway geometrics (diversions)
- c) construction detours
- d) grade
- e) width
- f) other conditions readily apparent to the driver

As long as any of these conditions exist, the work zone speed limit signs should remain in place.

SHORT TERM WORK ZONE SPEED LIMITS

This type of work zone speed limit may be included on the design of the traffic control plans when workers or equipment are not behind concrete barrier, when work activity is within 10 feet of the traveled way or actually in the traveled way.

Short Term Work Zone Speed Limit signs should be posted and visible to the motorists only when work activity is present. When work activity is not present, signs shall be removed or covered. (See Removing or Covering on BC(4)).

GENERAL NOTES

- Regulatory work zone speed limits should be used only for sections of construction projects where speed control is of major importance.
- 2. Regulatory work zone speed limit signs shall be placed on supports at a 7 foot minimum mounting height.
- 3. Speed zone signs are illustrated for one direction of travel and are normally posted for each direction of travel.
- 4. Frequency of work zone speed limit signs should be:

40 mph and greater 0.2 to 2 miles

35 mph and less 0.2 to 1 mile

- 5. Regulatory speed limit signs shall have black legend and border on a white reflective background (See "Reflective Sheeting" on BC(4)).
- 6. Fabrication, erection and maintenance of the ADVANCE SPEED LIMIT (CW3-5) sign, "WORK ZONE" (G20-5aP) plaque and the "SPEED LIMIT" (R2-1) signs shall not be paid for directly, but shall be considered subsidiary to Item 502.
- 7. Turning signs from view, laying signs over or down will not be allowed, unless as otherwise noted under "REMOVING OR COVERING" on BC(4).
- 8. Techniques that may help reduce traffic speeds include but are not limited to:
 A. Law enforcement.
 - B. Flagger stationed next to sign.
 - C. Portable changeable message sign (PCMS).
 - D. Low-power (drone) radar transmitter.
- E. Speed monitor trailers or signs.
- Speeds shown on details above are for illustration only.
 Work Zone Speed Limits should only be posted as approved for each project.
- 10. For more specific guidance concerning the type of work, work zone conditions and factors impacting allowable regulatory construction speed zone reduction see TxDOT form #1204 in the TxDOT e-form system.





División Standard

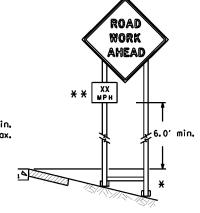
BARRICADE AND CONSTRUCTION WORK ZONE SPEED LIMIT

BC(3)-21

LE:	bc-21.dgn	DN: XL	101	ck: [XDO]	DW:	1×DO1	ck: IXD0	
) T×DOT	November 2002	CONT	SECT	JOB		HIGHWAY		
9-07 7-13		0916	00	228		IH3	7,ETC	
	8-14 5-21	DIST	COUNTY			SHEET NO.		
		CRP	N	IUECES. I	ETC		27	

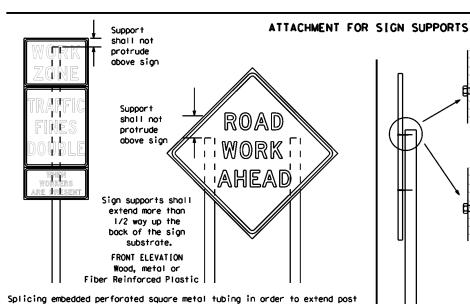
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xas Engineering Practice Act". TxD01 assumes no responsibility results or damages resulting fro



* When placing skid supports on unlevel ground, the leg post lengths must be adjusted so the sign appears straight and plumb. Objects shall NOT be placed under skids as a means of leveling.

* * When plaques are placed on dual-leg supports, they should be attached to the upright nearest the travel lane. Supplemental plaques (advisory or distance) should not cover the surface of the parent sign.



SIDE ELEVATION above and two below the spice point. Splice must be located entirely behind

Wood

will be by bolts and nuts or screws. Use TxDOT's or manufacturer's recommended procedures for attaching sign substrates to other types of sign supports Nails shall NOT

Attachment to wooden supports

be allowed. Each sign shall be attached directly to the sign support. Multiple signs shall not be joined or spliced by ony means. Wood supports shall not be extended or repaired by splicing or other means.

STOP/SLOW PADDLES

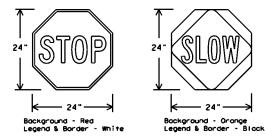
height will only be allowed when the splice is made using four bolts, two

the sign substrate, not near the base of the support. Splice insert lengths

should be at least 5 times nominal post size, centered on the splice and

of at least the same gauge material.

- 1. STOP/SLOW paddles are the primary method to control traffic by flaggers. The STOP/SLOW paddle size should be 24" x 24".
- STOP/SLOW paddles shall be retroreflectorized when used at night. 3. STOP/SLOW paddles may be attached to a staff with a minimum length of 6' to the bottom of the sign.
- 4. Any lights incorporated into the STOP or SLOW paddle faces shall only be as specifically described in Section 6E.03 Hand Signaling Devices in the TMUTCD.



SHEETING REQUIREMENTS (WHEN USED AT NIGHT)							
USAGE	COLOR	SIGN FACE MATERIAL					
BACKGROUND	RED	TYPE B OR C SHEETING					
BACKGROUND	ORANGE	TYPE B _{FL} OR C _{FL} SHEETING					
LEGEND & BORDER	WHITE	TYPE B OR C SHEETING					
LEGEND & BORDER	BLACK	ACRYLIC NON-REFLECTIVE FILM					

CONTRACTOR REQUIREMENTS FOR MAINTAINING PERMANENT SIGNS WITHIN THE PROJECT LIMITS

- Permanent signs are used to give notice of traffic laws or regulations, call attention to conditions that are potentially hazardous to traffic operations, show route designations, destinations, directions, distances, services, points of interest, and other geographical, recreational, specific service (LOGO), or cultural information. Drivers proceeding through a work zone need the same, if not better route guidance as normally installed on a roadway without construction.
- When permanent regulatory or warning signs conflict with work zone conditions, remove or cover the permanent signs until the permanent sign message matches the roadway condition. For details for covering large guide signs see the TS-CD standard.
- When existing permanent signs are moved and relocated due to construction purposes, they shall be visible to motorists at all times.
- If existing signs are to be relocated on their original supports, they shall be installed on crashworthy bases as shown on the SMD Standard sheets. The signs shall meet the required mounting heights shown on the BC Sheets or the SMD Standards. This work should be paid for under the appropriate pay item for relocating existing signs.
- If permanent signs are to be removed and relocated using temporary supports. the Contractor shall use crashworthy supports as shown on the BC standard sheets. TLRS standard sheets or the CWZICD list. The signs shall meet the required mounting heights shown on the BC, or the SMD standard sheets during construction. This work should be paid for under the appropriate pay item for relocating existing signs.
- Any sign or traffic control device that is struck or damaged by the Contractor or his/her construction equipment shall be replaced as soon as possible by the Contractor to ensure proper guidance for the motorists. This will be subsidiary to Item 502.

GENERAL NOTES FOR WORK ZONE SIGNS

- Contractor shall install and maintain signs in a straight and plumb condition and/or as directed by the Engineer.
- Wooden sign posts shall be painted white.
- Barricades shall NOT be used as sign supports
- All signs shall be installed in accordance with the plans or as directed by the Engineer. Signs shall be used to regulate, warn, and guide the traveling public safely through the work zone.
- The Contractor may furnish either the sign design shown in the plans or in the "Standard Highway Sign Designs for Texas" (SHSD). The Engineer/Inspector may require the Contractor to furnish other work zone signs that are shown in the TMUTCD but may have been amitted from the plans. Any variation in the plans shall be documented by written agreement between the Engineer and the Contractor's Responsible Person. All changes must be documented in writing before being implemented. This can include documenting the changes in the Inspector's TxDOT diary and having both the Inspector and Contractor initial and date the agreed upon changes.
- The Contractor shall furnish sign supports listed in the "Compliant Work Zone Traffic Control Device List" (CWZTCD) for small roadside signs. Supports for temporary large roadside signs shall meet the requirements detailed on the Temporary Large Roadside Signs (TLRS) standard sheets. The Contractor shall install the sign support in accordance with the manufacturer's recommendations. If there is a question regarding installation procedures, the Contractor shall furnish the Engineer a copy of the manufacturer's installation recommendations so the Engineer can verify the correct procedures are being followed.
- The Contractor is responsible for installing signs on approved supports and replacing signs with damaged or cracked substrates and/or damaged or marred reflective sheeting as directed by the Engineer/Inspector.
- Identification markings may be shown only on the back of the sign substrate. The maximum height of letters and/or company logos used for identification shall be 1 inch.
- The Contractor shall replace damaged wood posts. New or damaged wood sign posts shall not be spliced.

<u>DURATION OF WORK (as defined by the "Texas Manual on Uniform Traffic Control Devices" Part 6)</u>

- The types of sign supports, sign mounting height, the size of signs, and the 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.
- Intermediate-term stationary work that occupies a location more than one daylight period up to 3 days, or nighttime work lasting more than one hour.
- Short-term stationary daytime work that occupies a location for more than 1 hour in a single daylight period. Short, duration - work that occupies a location up to 1 hour.
- Mobile work that moves continuously or intermittently (stopping for up to approximately 15 minutes.)

SIGN MOUNTING HEIGHT

- 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 plagues 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. Long-term/Intermediate-term Signs may be used in lieu of Short-term/Short Duration signing.
- 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 sign height.
- Regulatory signs shall be mounted at least 7 feet, but not more than 9 feet, above the paved surface regardless of work duration.

SIZE OF SIGNS

The Contractor shall furnish the sign sizes shown on BC (2) unless otherwise shown in the plans or as directed by the Engineer.

SIGN SUBSTRATES

- The Contractor shall ensure the sign substrate is installed in accordance with the manufacturer's recommendations for the type of sign support that is being used. The CWZTCD lists each substrate that can be used on the different types and models of sign supports.
- "Mesh" type materials are NOT an approved sign substrate, regardless of the tightness of the weave.
- All wooden individual sign panels fabricated from 2 or more pieces shall have one or more plywood cleat, 1/2" thick by 6" wide, fastened to the back of the sign and extending fully across the sign. The cleat shall be attached to the back of the sign using wood screws that do not penetrate the face of the sign panel. The screws shall be placed on both sides of the splice and spaced at 6" centers. The Engineer may approve other methods of splicing the sign face.

REFLECTIVE SHEETING

- 1. All signs shall be retroreflective and constructed of sheeting meeting the color and retro-reflectivity requirements of DMS-8300
- for rigid signs or DMS-8310 for roll-up signs. The web address for DMS specifications is shown on BC(1).
- White sheeting, meeting the requirements of DMS-8300 Type A, shall be used for signs with a white background. Orange sheeting, meeting the requirements of DMS-8300 Type B_{FL} or Type C_{FL} , shall be used for rigid signs with orange backgrounds.

SIGN LETTERS

1. All sign letters and numbers shall be clear, and open rounded type uppercase alphabet letters as approved by the Federal Highway Administration (FHWA) and as published in the "Standard Highway Sign Design for Texas" manual. Signs, letters and numbers shall be of first class workmanship in accordance with Department Standards and Specifications.

REMOVING OR COVERING

- When sign messages may be confusing or do not apply, the signs shall be removed or completely covered.
- Long-term stationary or intermediate stationary signs installed on square metal tubing may be turned away from traffic 90 degrees when the sign message is 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 approaching traffic.
- 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.
- 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 headlights at night, without damaging the sign sheeting.
- Burlap shall NOT be used to cover signs.
- Duct tape or other adhesive material shall NOT be affixed to a sign face. Signs and anchor stubs shall be removed and holes backfilled upon completion of work.

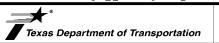
SIGN SUPPORT WEIGHTS

- Where sign supports require the use of weights to keep from turning over, the use of sandbags with dry, cohesionless sand should be used.
 The sandbags will be tied shut to keep the sand from spilling and to maintain a
- constant weight.
- Rock, concrete, iron, steel or other solid objects shall not be permitted for use as sign support weights. Sandbags should weigh a minimum of 35 lbs and a maximum of 50 lbs.
- Sandbags shall be made of a durable material that tears upon vehicular impact. Rubber (such as tire inner tubes) shall NOT be used. Rubber ballasts designed for channelizing devices should not be used for
- ballast on portable sign supports. Sign supports designed and manufactured with rubber bases may be used when shown on the CWZICD list. Sandbags shall only be placed along or laid over the base supports of the traffic control device and shall not be suspended above ground level or hung with rope, wire, chains or other fasteners. Sandbags shall be placed
- along the length of the skids to weigh down the sign support. Sandbags shall NOT be placed under the skid and shall not be used to level sign supports placed on slopes.

FLAGS ON SIGNS

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 4 OF 12



BARRICADE AND CONSTRUCTION TEMPORARY SIGN NOTES

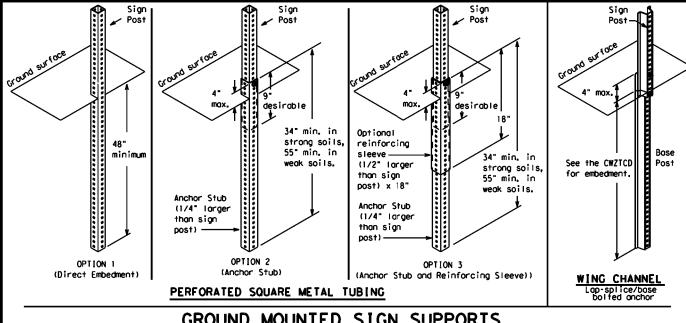
BC(4)-21

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		0916	00	228		IH3	7, ETC
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SINGLE LEG BASE

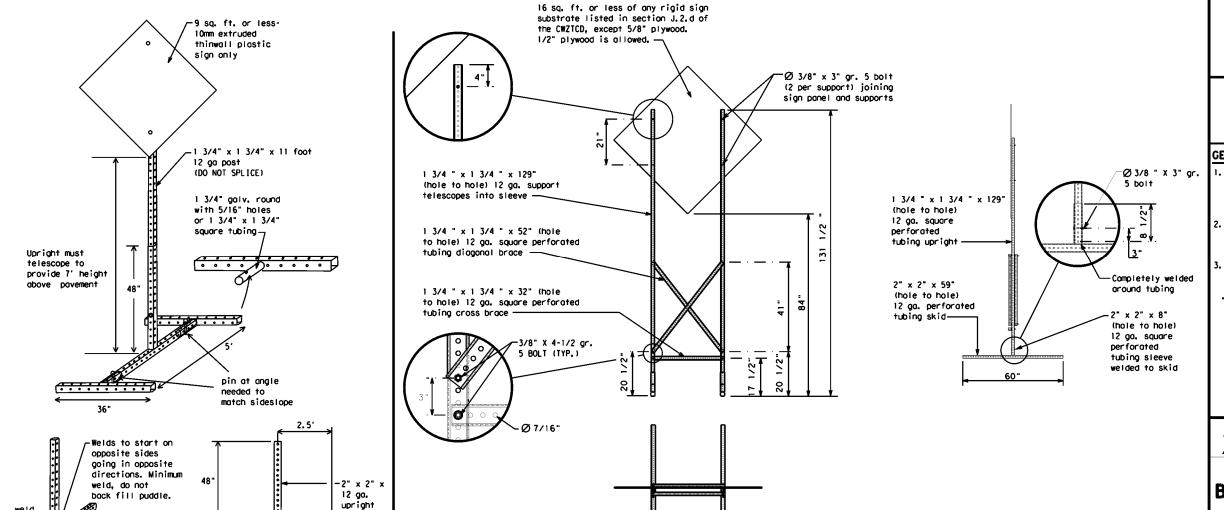
weld starts here

xas Engineering Practice Act". No warranty of any TxDOI assumes no responsibility for the conversion results or damages resulting from its use.



GROUND MOUNTED SIGN SUPPORTS

Refer to the CWZTCD and the manufacturer's installation procedure for each type sign support. The maximum sign square footage shall adhere to the manufacturer's recommendation. Two post installations can be used for larger signs.



WEDGE ANCHORS

Both steel and plastic Wedge Anchor Systems as shown on the SMD Standard Sheets may be used as temporary sign supports for signs up to 10 square feet of sign face. They may be set in concrete or in sturdy soils if approved by the Engineer. (See web address for "Traffic Engineering Standard Sheets" on BC(1)).

OTHER DESIGNS

MORE DETAILS OF APPROVED LONG/INTERMEDIATE AND SHORT TERM SUPPORTS CAN BE FOUND ON THE CWZTCD LIST. SEE BC(1) FOR WEBSITE LOCATION.

GENERAL NOTES

- Nails may be used in the assembly of wooden sign supports, but 3/8" bolts with nuts or 3/8" x 3 1/2" lag screws must be used on every joint for final
- No more than 2 sign posts shall be placed within a 7 ft. circle, except for specific materials noted on the CWZTCD List.
- When project is completed, all sign supports and foundations shall be removed from the project site. This will be considered subsidiary to Item 502.
 - See BC(4) for definition of "Work Duration."
 - Wood sign posts MUST be one piece. Splicing will NOT be allowed. Posts shall be painted white.
 - ☐ See the CWZTCD for the type of sign substrate that can be used for each approved sign support.

SHEET 5 OF 12



Traffic Safety Division Standard

BARRICADE AND CONSTRUCTION TYPICAL SIGN SUPPORT

BC(5)-21

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SKID MOUNTED PERFORATED SQUARE STEEL TUBING SIGN SUPPORTS

* LONG/INTERMEDIATE TERM STATIONARY - PORTABLE SKID MOUNTED SIGN SUPPORTS

32'

PORTABLE CHANGEABLE MESSAGE SIGNS

- 1. The Engineer/Inspector shall approve all messages used on portable changeable message signs (PCMS).
- 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.
- 3. Messages should consist of a single phase, or two phases that alternate. Three-phase messages are not allowed. Each phase of the message should convey a single thought, and must be understood by
- 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.
- When in use, the bottom of a stationary PCMS message panel should be a minimum 7 feet above the roadway, where possible.
- The message term "WEEKEND" should be used only if the work is to start on Saturday morning and end by Sunday evening at midnight. Actual days and hours of work should be displayed on the PCMS if work is to begin on Friday evening and/or continue into Monday morning.
- The Engineer/Inspector may select one of two options which are available for displaying a two-phase message on a PCMS. Each phase may be displayed for either four seconds each or for three seconds each.
- Do not "flash" messages or words included in a message. The message should be steady burn or continuous while displayed.
- 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.
- 11. Do not use the word "Danger" in message.
- 12. Do not display the message "LANES SHIFT LEFT" or "LANES SHIFT RIGHT" on a PCMS. Drivers do not understand the message.
- 13. Do not display messages that scroll horizontally or vertically across the face of the sign.
- 14. The following table lists abbreviated words and two-word phrases that are acceptable for use on a PCMS. Both words in a phrase must be displayed together. Words or phrases not on this list should not be abbreviated, unless shown in the TMUTCD.
- 15. PCMS character height should be at least 18 inches for trailer mounted units. They should be visible from at least 1/2 (.5) mile and the text should be legible from at least 600 feet at night and 800 feet in daylight. Truck mounted units must have a character height of 10 inches and must be legible from at least 400 feet.
- 16. Each line of text should be centered on the message board rather than left or right justified.
- 17. If disabled, the PCMS should default to an illegible display that will not alarm motorists and will only be used to alert workers that the PCMS has malfunctioned. A pattern such as a series of horizontal solid bars is appropriate.

WORD OR PHRASE	ABBREVIATION	WORD OR PHRASE	ABBREVIATION
Access Road	ACCS RD	Major	MAJ
Alternate	ALT	Miles	MI
Avenue	AVE	Miles Per Hour	MPH
Best Route	BEST RTE	Minor	MNR
Boulevard	BLVD	Monday	MON
Bridge	BRDG	Normal	NORM
Cannot	CANT	North	N
Center	CTR	Nor thbound	(route) N
Construction	CONST AHD	Parkina	PKING
Ahead	CONST AND	Road	RD
CROSSING	XING	Right Lane	RT LN
Detour Route	DETOUR RTE	Saturday	SAT
Do Not	DONT	Service Road	SERV RD
East	E	Shoulder	SHLDR
Eastbound	(route) E	Slippery	SLIP
Emergency	EMER	South	S
Emergency Vehicle	EMER VEH	Southbound	(route) S
Entrance, Enter	ENT	Speed	SPD
Express Lone	EXP LN	Street	ST
Expressway	EXPWY	Sunday	SUN
XXXX Feet	XXXX FT	Telephone	PHONE
Fog Ahead	FOG AHD	Temporary	TEMP
Freeway	FRWY, FWY	Thursday	THURS
Freeway Blocked	FWY BLKD	To Downtown	TO DWNTN
Friday	FRI	Traffic	TRAF
Hazardous Driving		Travelers	TRVLRS
Hazardous Material		Tuesday	TUES
High-Occupancy	HOV	Time Minutes	TIME MIN
Vehicle	HWY	Upper Level	UPR LEVEL
Highway		Vehicles (s)	VEH. VEHS
Hour (s)	HR, HRS	Warning	WARN
Information	INFO	Wednesday	WED
It is	ITS	Weight Limit	WT LIMIT
Junction	JCT	West	W
Left	LFT	Westbound	(route) W
Left Lane	LFT LN	Wet Povement	WET PVMT
Lane Closed	LN CLOSED	Will Not	WONT
Lower Level	LWR LEVEL		1
Maintenance	MAINT		

designation # IH-number, US-number, SH-number, FM-number

RECOMMENDED PHASES AND FORMATS FOR PCMS MESSAGES DURING ROADWORK ACTIVITIES

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

Phase 1: Condition Lists

FREEWAY CLOSED X MILE	FRONTAGE ROAD CLOSED	ROADWORK XXX FT	ROAD REPAIRS XXXX FT
ROAD CLOSED AT SH XXX	SHOULDER CLOSED XXX FT	FLAGGER XXXX FT	LANE NARROWS XXXX FT
ROAD CLSD AT FM XXXX	RIGHT LN CLOSED XXX FT	RIGHT LN NARROWS XXXX FT	TWO-WAY TRAFFIC XX MILE
RIGHT X LANES CLOSED	RIGHT X LANES OPEN	MERGING TRAFFIC XXXX FT	CONST TRAFFIC XXX FT
CENTER LANE CLOSED	DAYTIME LANE CLOSURES	LOOSE GRAVEL XXXX FT	UNEVEN LANES XXXX FT
NIGHT LANE CLOSURES	I-XX SOUTH EXIT CLOSED	DETOUR X MILE	ROUGH ROAD XXXX FT
VARIOUS LANES CLOSED	EXIT XXX CLOSED X MILE	ROADWORK PAST SH XXXX	ROADWORK NEXT FRI-SUN
EXIT CLOSED	RIGHT LN TO BE CLOSED	BUMP XXXX FT	US XXX EXIT X MILES
MALL DRIVEWAY CLOSED	X LANES CLOSED TUE - FRI	TRAFFIC SIGNAL XXXX FT	LANES SHIFT

* LANES SHIFT in Phase 1 must be used with STAY IN LANE in Phase

Phase 2: Possible Component Lists

A		e/Effect on Travel List	Location List	Warning List	* * Advance Notice List
	MERGE RIGHT	FORM X LINES RIGHT	AT FM XXXX	SPEED LIMIT XX MPH	TUE-FRI XX AM- X PM
	DETOUR NEXT X EXITS	USE XXXXX RD EXIT	BEFORE RAILROAD CROSSING	MAXIMUM SPEED XX MPH	APR XX- XX X PM-X AM
	USE EXIT XXX	USE EXIT I-XX NORTH	NEXT X MILES	MINIMUM SPEED XX MPH	BEGINS MONDAY
	STAY ON US XXX SOUTH	USE I-XX E TO I-XX N	PAST US XXX EXIT	ADVISORY SPEED XX MPH	BEGINS MAY XX
	TRUCKS USE US XXX N	WATCH FOR TRUCKS	XXXXXXX TO XXXXXXX	RIGHT LANE EXIT	MAY X-X XX PM - XX AM
	WATCH FOR TRUCKS	EXPECT DELAYS	US XXX TO FM XXXX	USE CAUTION	NEXT FRI-SUN
	EXPECT DELAYS	PREPARE TO STOP		DRIVE SAFELY	XX AM TO XX PM
	REDUCE SPEED XXX FT	END SHOULDER USE		DRIVE WITH CARE	NEXT TUE AUG XX
-	USE OTHER ROUTES	WATCH FOR WORKERS			TONIGHT XX PM- XX AM
ıse 2.	STAY IN LANE	*	* * See	Application Guidelin	es Note 6.

APPLICATION GUIDELINES

- 1. Only 1 or 2 phases are to be used on a PCMS.
- 2. The 1st phase (or both) should be selected from the "Road/Lane/Ramp Closure List" and the "Other Condition List".
- 3. A 2nd phase can be selected from the "Action to Take/Effect on Travel, Location, General Warning, or Advance Notice Phose Lists".
- 4. A Location Phase is necessary only if a distance or location is not included in the first phase selected.
- 5. If two PCMS are used in sequence, they must be separated by a minimum of 1000 ft. Each PCMS shall be limited to two phases, and should be understandable by themselves.
- 6. For advance notice, when the current date is within seven days of the actual work date, calendar days should be replaced with days of the week. Advance notification should typically be for no more than one week prior to the work.

WORDING ALTERNATIVES

- 1. The words RIGHT, LEFT and ALL can be interchanged as appropriate.
- 2. Roadway designations [H, US, SH, FM and LP can be interchanged as appropriate.
- 3. EAST, WEST, NORTH and SOUTH (or abbreviations E, W, N and S) can be interchanged as appropriate.
- 4. Highway names and numbers replaced as appropriate.
- 5. ROAD, HIGHWAY and FREEWAY can be interchanged as needed.
- AHEAD may be used instead of distances if necessary.
- 7. FI and MI. MILE and MILES 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.

PCMS SIGNS WITHIN THE R.O.W. SHALL BE BEHIND GUARDRAIL OR CONCRETE BARRIER OR SHALL HAVE A MINIMUM OF FOUR (4) PLASTIC DRUMS PLACED PERPENDICULAR TO TRAFFIC ON THE UPSTREAM SIDE OF THE PCMS, WHEN EXPOSED TO ONE DIRECTION OF TRAFFIC. WHEN EXPOSED TO TWO WAY TRAFFIC. THE FOUR DRUMS SHOULD BE PLACED WITH ONE DRUM AT EACH OF THE FOUR CORNERS OF THE UNIT.

FULL MATRIX PCMS SIGNS

BLVD

CLOSED

- 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 CHANGEABLE MESSAGE SIGNS" above.
- When symbol signs, such as the "Flagger Symbol" (CW20-7) are represented graphically on the Full Matrix PCMS sign and, with the approval of the Engineer, it shall maintain the legibility/visibility requirement listed above
- When symbol signs are represented graphically on the Full Matrix PCMS, they shall only supplement the use of the static sign represented, and shall not substitute for, or replace that sign.
- 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 same size arrow.

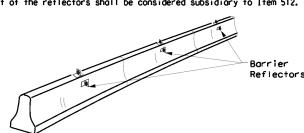
SHEET 6 OF 12



BARRICADE AND CONSTRUCTION PORTABLE CHANGEABLE MESSAGE SIGN (PCMS)

BC(6)-21

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		0916	6 00 228			IH37, ETC	
© TxD0T	November 2002	CONT	ONT SECT JOB			HIGHWAY	
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CONCRETE TRAFFIC BARRIER (CTB)

Practice Act". No warranty of any responsibility for the conversion es resulting from its use.

- 3. Where traffic is on one side of the CTB, two (2) Barrier Reflectors shall be mounted in approximately the midsection of each section of CTB. An alternate mounting location is uniformly spaced at one end of each CTB. This will allow for attachment of a barrier grapple without damaging the reflector. The Barrier Reflector mounted on the side of the CTB shall be located directly below the reflector mounted on top of the barrier, as shown in the detail above.
- Where CTB separates two-way traffic, three barrier reflectors shall be mounted on each section of CTB. The reflector unit on top shall have two yellow reflective faces (Bi-Directional) while the reflectors on each side of the barrier shall have one yellow reflective face, as shown in the detail above.
- 5. When CTB separates traffic traveling in the same direction, no barrier reflectors will be required on top of the CTB.
- 6. Barrier Reflector units shall be yellow or white in color to match the edgeline being supplemented.
- 7. Maximum spacing of Barrier Reflectors is forty (40) feet.

Type C Warning Light or approved substitute mounted on a

drum adjacent to the travel way.

Warning reflector may be round

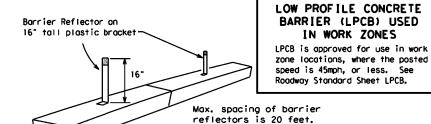
or square. Must have a yellow

reflective surface area of at least

30 square inches

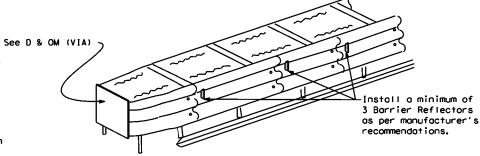
2:16:45 projectw

- 8. Pavement markers or temporary flexible-reflective roadway marker tabs shall NOT be used as CTB delineation.
- 9. Attachment of Barrier Reflectors to CTB shall be per manufacturer's
- 10. Missing or damaged Barrier Reflectors shall be replaced as directed by the Engineer
- 11. Single slope barriers shall be delineated as shown on the above detail.



LOW PROFILE CONCRETE BARRIER (LPCB)

Attach the delineators as per manufacturer's recommendations.



DELINEATION OF END TREATMENTS

END TREATMENTS FOR CTB'S USED IN WORK ZONES

End treatments used on CTB's in work zones shall meet the appropriate crashworthy standards as defined in the Manual for Assessing Safety Hardware (MASH). Refer to the CWZTCD List for approved end treatments and manufacturers.

BARRIER REFLECTORS FOR CONCRETE TRAFFIC BARRIER AND ATTENUATORS

WARNING LIGHTS

- 1. Warning lights shall meet the requirements of the TMUTCD.
- 2. Warning lights shall NOT be installed on barricades.
- 3. Type A-Low Intensity Flashing Warning Lights are commonly used with drums. They are intended to warn of or mark a potentially hazardous area. Their use shall be as indicated on this sheet and/or other sheets of the plans by the designation "FL". The Type A Warning Lights shall not be used with signs manufactured with Type B_{F_L} or C_{F_L} Sheeting meeting the requirements of Departmental Material Specification DMS-8300.
- 4. Type-C and Type D 360 degree Steady Burn Lights are intended to be used in a series for delineation to supplement other traffic control devices. Their use shall be as indicated on this sheet and/or other sheets of the plans by the designation "SB".
- 5. The Engineer/Inspector or the plans shall specify the location and type of warning lights to be installed on the traffic control devices.
- 6. When required by the Engineer, the Contractor shall furnish a copy of the warning lights certification. The warning lights manufacturer will certify the warning lights meet the requirements of the latest ITE Purchase Specifications for Flashing and Steady-Burn Warning Lights.
- 7. When used to delineate curves, Type-C and Type D Steady Burn Lights should only be placed on the outside of the curve, not the inside.
- 8. The location of warning lights and warning reflectors on drums shall be as shown elsewhere in the plans.

WARNING LIGHTS MOUNTED ON PLASTIC DRUMS

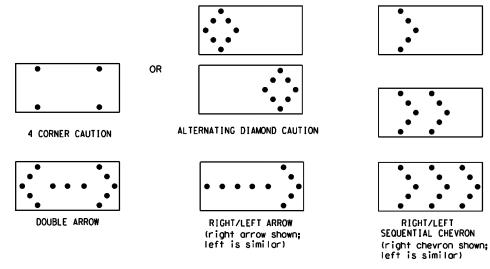
- 1. Type A flashing warning lights are intended to warn drivers that they are approaching or are in a potentially hazardous area.
- 2. Type A random flashing warning lights are not intended for delineation and shall not be used in a series,
- 3. A series of sequential flashing warning lights placed on channelizing devices to form a merging taper may be used for delineation. If used, the successive flashing of the sequential warning lights should occur from the beginning of the taper to the end of the merging taper in order to identify the desired vehicle path. The rate of flashing for each light shall be 65 flashes per minute, plus or minus 10 flashes.
- 4. Type C and D steady-burn warning lights are intended to be used in a series to delineate the edge of the travel lane on detours, on lane changes, on lane closures, and on other similar conditions.
- 5. Type A, Type C and Type D warning lights shall be installed at locations as detailed on other sheets in the plans.
- 6. Warning lights shall not be installed on a drum that has a sign, chevron or vertical panel.
- 7. The maximum spacing for warning lights on drums should be identical to the channelizing device spacing.

WARNING REFLECTORS MOUNTED ON PLASTIC DRUMS AS A SUBSTITUTE FOR TYPE C (STEADY BURN) WARNING LIGHTS

- 1. A warning reflector or approved substitute may be mounted on a plastic drum as a substitute for a Type C, steady burn warning light at the discretion of the Contractor unless otherwise noted in the plans.
- 2. The warning reflector shall be yellow in color and shall be manufactured using a sign substrate approved for use with plastic drums listed
- 3. The warning reflector shall have a minimum retroreflective surface area (one-side) of 30 square inches.
- 4. Round reflectors shall be fully reflectorized, including the area where attached to the drum.
- Square substrates must have a minimum of 30 square inches of reflectorized sheeting. They do not have to be reflectorized where it attaches to the drum.
- The side of the warning reflector facing approaching traffic shall have sheeting meeting the color and retroreflectivity requirements for DMS 8300-Type B or Type C.
- 7. When used near two-way traffic, both sides of the warning reflector shall be reflectorized.
- 8. The warning reflector should be mounted on the side of the handle nearest approaching traffic.
- 9. The maximum spacing for warning reflectors should be identical to the channelizing device spacing requirements.

Arrow Boards may be located behind channelizing devices in place for a shoulder taper or merging taper, otherwise they shall be delineated with four (4) channelizing devices placed perpendicular to traffic on the upstream side of traffic.

- 1. The Flashing Arrow Board should be used for all lane closures on multi-lane roadways, or slow moving maintenance or construction activities on the travel lanes.
- 2. Flashing Arrow Boards should not be used on two-lane, two-way roadways, detours, diversions or work on shoulders unless the "CAUTION" display (see detail below) is used.
- The Engineer/Inspector shall choose all appropriate signs, barricades and/or other traffic control devices that should be used in conjunction with the Flashing Arrow Board.
- 4. The Flashing Arrow Board should be able to display the following symbols:



- 5. The "CAUTION" display consists of four corner lamps flashing simultaneously, or the Alternating Diamond Caution mode as shown.
- The straight line caution display is NOT ALLOWED.
- The Flashing Arrow Board shall be capable of minimum 50 percent dimming from rated lamp voltage.
 The flashing rate of the lamps shall not be less than 25 nor more than 40 flashes per minute.
 Minimum lamp "on time" shall be approximately 50 percent for the flashing arrow and equal

- intervals of 25 percent for each sequential phase of the flashing chevron.

 9. The sequential arrow display is NOT ALLOWED.

 10. The flashing arrow display is the TxDOT standard; however, the sequential chevron display may be used during daylight operations.

- 11. The Flashing Arrow Board shall be mounted on a vehicle, trailer or other suitable support.

 12. A Flashing Arrow Board SHALL NOT BE USED to laterally shift traffic.

 13. A full matrix PCMS may be used to simulate a Flashing Arrow Board provided it meets visibility,
- flash rate and dimming requirements on this sheet for the same size arrow.

 14. Minimum mounting height of trailer mounted Arrow Boards should be 7 feet from roadway to bottom of panel.

	REQUIREMENTS									
TYPE	MINIMUM SIZE	MINIMUM NUMBER OF PANEL LAMPS	MINIMUM VISIBILITY DISTANCE							
В	30 × 60	13	3/4 mile							
С	48 × 96	15	1 mile							

ATTENTION Flashing Arrow Boards shall be equipped with automatic dimming devices.

WHEN NOT IN USE, REMOVE THE ARROW BOARD FROM THE RIGHT-OF-WAY OR PLACE THE ARROW BOARD BEHIND CONCRETE TRAFFIC BARRIER OR GUARDRAIL.

FLASHING ARROW BOARDS

SHEET 7 OF 12

TRUCK-MOUNTED ATTENUATORS

- Truck-mounted attenuators (TMA) used on TxDOT facilities must meet the requirements outlined in the Manual for
- Assessing Sofety Hordwore (MASH).
 Refer to the CWZTCD for the requirements of Level 2 or Level 3 TMAs.
- Refer to the CWZTCD for a list of approved TMAs.
- 4. TMAs are required on freeways unless otherwise noted in the plans
- 5. A TMA should be used poytime that it can be positioned 30 to 100 feet in advance of the area of crew exposure without adversely affecting the work performance.
- The only reason a TMA should not be required is when a work area is spread down the roadway and the work crew is an extended distance from the TMA.



BARRICADE AND CONSTRUCTION ARROW PANEL, REFLECTORS. WARNING LIGHTS & ATTENUATOR

BC(7)-21

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GENERAL NOTES

- 1. For long term stationary work zones on freeways, drums shall be used as the primary channelizing device.
- 2. For intermediate term stationary work zones on freeways, drums should be used as the primary channelizing device but may be replaced in tangent sections by vertical panels, or 42" two-piece cones. In tangent sections, one-piece cones may be used with the approval of the Engineer but only if personnel are present on the project at all times to maintain the cones in proper position and location.
- 3. For short term stationary work zones on freeways, drums are the preferred channelizing device but may be replaced in tapers, transitions and tangent sections by vertical panels, two-piece cones or one-piece cones as approved by the Engineer.
- 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 affect their appearance or serviceability.
- 6. The Contractor shall have a maximum of 24 hours to replace any plastic drums identified for replacement by the Engineer/Inspector. The replacement device must be an approved device.

GENERAL DESIGN REQUIREMENTS

Pre-qualified plastic drums shall meet the following requirements:

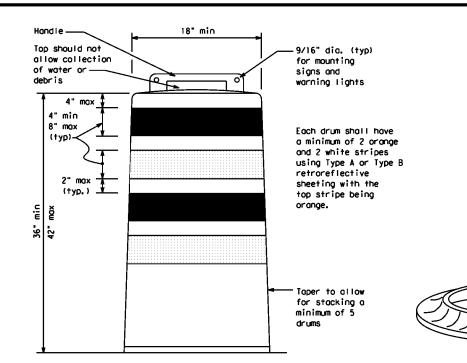
- 1. Plastic drums shall be a two-piece design; the "body" of the drum shall be the top portion and the "base" shall be the bottom.
- 2. The body and base shall lock together in such a manner that the body separates from the base when impacted by a vehicle traveling at a speed of 20 MPH or greater but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

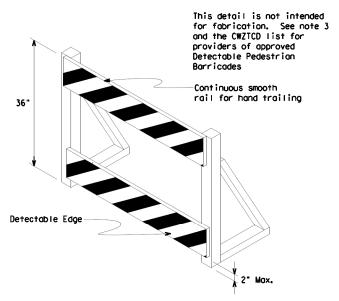
RETROREFLECTIVE SHEETING

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

BALLAST

- 1. Unballasted bases shall be large enough to hold up to 50 lbs. of sand. This base, when filled with the ballast material, should weigh between 35 lbs (minimum) and 50 lbs (maximum). The ballast may be sand in one to three sandbags separate from the base, sand in a sand-filled plastic base, or other ballasting devices as approved by the Engineer. Stacking of sandbags will be allowed, however height of sandbags above pavement surface may not exceed 12 inches.
- 2. Bases with built-in ballast shall weigh between 40 lbs. and 50 lbs. Built-in ballast can be constructed of an integral crumb rubber base or a solid rubber base.
- Recycled truck tire sidewalls may be used for ballast on drums approved for this type of ballast on the CWZTCD list.
- 4. The ballast shall not be 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 bottoms so that water will not collect and freeze becoming a hazard when struck by a vehicle.
- 6. Ballast shall not be placed on top of drums.
- 7. Adhesives may be used to secure base of drums to povement.





DETECTABLE PEDESTRIAN BARRICADES

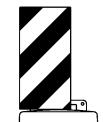
- 1. When existing pedestrian facilities are disrupted, closed, or relocated in a TTC zone, the temporary facilities shall be detectable and include accessibility features consistent with the features present in the existing pedestrian facility. Refer to WZ(BTS-2) for Pedestrian Control requirements for Sidewalk
- Diversions, Sidewalk Detours and Crosswalk Closures.

 2. Where pedestrians with visual disabilities normally use the closed sidewalk, a Detectable Pedestrian Barricade shall be placed across the full width of the closed sidewalk instead of a Type 3 Barricade.
- 3. Detectable pedestrian barricades similar to the one pictured above, longitudinal channelizing devices, some concrete barriers, and wood or chain link fencing with a continuous detectable edging can satisfactorily delineate a pedestrian
- 4. Tape, rope, or plastic chain strung between devices are not detectable, do not comply with the design standards in the "Americans with Disabilities Act Accessibility Guidelines (ADAAG)" and should not be used as a control for pedestrian
- 5. Warning lights shall not be attached to detectable pedestrian barricades.
- 6. Detectable pedestrian barricades should use 8" naminal barricade rails as shown on BC(10) provided that the top rail provides a smooth continuous rail suitable for hand trailing with no splinters, burrs, or sharp edges.



18" x 24" Sign (Maximum Sign Dimension) Chevron CWI-8, Opposing Traffic Lane Divider, Driveway sign D70a, Keep Right R4 series or other signs as approved by Engineer

See Ballast



12" x 24" Vertical Page mount with diagonals sloping down towards travel way

Plywood, Aluminum or Metal sign substrates shall NOT be used on plastic drums

SIGNS, CHEVRONS, AND VERTICAL PANELS MOUNTED ON PLASTIC DRUMS

- 1. Signs used on plastic drums shall be manufactured using substrates listed on the CWZTCD.
- 2. Chevrons and other work zone signs with an orange background shall be manufactured with Type $B_{\rm FL}$ or Type $C_{\rm FL}$ Orange sheeting meeting the color and retroreflectivity requirements of DMS-8300, "Sign Face Material," unless otherwise specified in the plans.
- 3. Vertical Panels shall be manufactured with orange and white sheeting meeting the requirements of DMS-8300 Type A or Type B. Diagonal stripes on Vertical Panels shall slope down toward the intended traveled lane.
- 4. Other sign messages (text or symbolic) may be used as approved by the Engineer. Sign dimensions shall not exceed 18 inches in width or 24 inches in height, except for the R9 series signs discussed in note 8 below.
- 5. Signs shall be installed using a 1/2 inch bolt (nominal) and nut, two washers, and one locking washer for each
- 6. Mounting bolts and nuts shall be fully engaged and adequately torqued. Bolts should not extend more than 1/2
- 7. Chevrons may be placed on drums on the outside of curves, on merging tapers or on shifting tapers. When used in these locations, they may be placed on every drum or spaced not more than on every third drum. A minimum of three (3) should be used at each location called for in the plans.
- 8. R9-9, R9-10, R9-11 and R9-11a Sidewalk Closed signs which are 24 inches wide may be mounted on plastic drums, with approval of the Engineer.

SHEET 8 OF 12

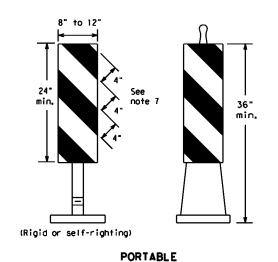


Traffic Safety

BARRICADE AND CONSTRUCTION CHANNELIZING DEVICES

BC(8)-21

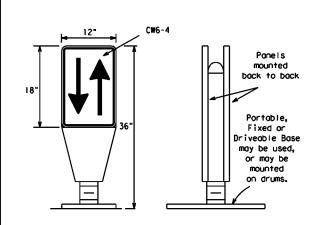
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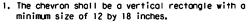
- 1. Vertical Panels (VP's) are normally used to channelize traffic or divide opposing lanes of traffic.
- 2. VP's may be used in daytime or nighttime situations. They may be used at the edge of shoulder drop-offs and other areas such as lane transitions where positive daytime and nighttime delineation is required. The Engineer/Inspector shall refer to the Roodway Design Manual for additional requirements on the use VP's for drop-offs.
- 3. VP's should be mounted back to back if used at the edge of cuts adjacent to two-way two lane roadways. Stripes are to be reflective orange and reflective white and should always slope downward toward the travel lane.
- 4. VP's used on expressways and freeways or other high speed roadways, may have more than 270 square inches of retroreflective area facing traffic.
- 5. Self-righting supports are available with portable base. See "Compliant Work Zone Traffic Control Devices List"
- 6. Sheeting for the VP's shall be retroreflective Type A or Type B conforming to Departmental Material Specification DMS-8300, unless noted otherwise.
- 7. Where the height of reflective material on the vertical panel is 36 inches or greater, a panel stripe of 6 inches shall be used.

VERTICAL PANELS (VPs)



- 1. Opposing Traffic Lane Dividers (OTLD) are delineation devices designed to convert a normal one-way roadway section to two-way operation. OTLD's are used on temporary centerlines. The upward and downward arrows on the sign's face indicate the direction of traffic on either side of the divider. The base is secured to the pavement with an achesive or rubber weight to minimize movement caused by a vehicle impact or wind gust.
- 2. The OTLD may be used in combination with 42"
- 3. Spacing between the OTLD shall not exceed 500 feet. 42" cones or VPs placed between the OTLD's should not exceed 100 foot spacing.
- 4. The OTLD shall be orange with a black nonreflective legend. Sheeting for the OTLD shall be retroreflective Type $B_{FL}\,\text{or}\,$ Type $C_{FL}\,\text{conforming}$ to Departmental Material Specification DMS-8300, unless noted otherwise. The legend shall meet the requirements of DMS-8300.

OPPOSING TRAFFIC LANE DIVIDERS (OTLD)

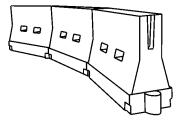


- 2. Chevrons are intended to give notice of a sharp change of alignment with the direction of travel and provide additional emphasis and guidance for vehicle operators with regard to changes in horizontal alignment of the roadway.
- 3. Chevrons, when used, shall be erected on the outside of a sharp curve or turn, or on the far side of an intersection. They shall be in line with and at right angles to approaching traffic. Spacing should be such that the motorist always has three in view, until the change in alignment eliminates its need.
- 4. To be effective, the chevron should be visible for at least 500 feet.
- 5. Chevrons shall be orange with a black nonreflective legend. Sheeting for the chevron shall be retroreflective Type BFL or Type CFL conforming to Departmental Material Specification DMS-8300, unless noted otherwise. The legend shall meet the requirements of DMS-8300.
- 6. For Long Term Stationary use on tapers or transitions on freeways and divided highways, self-righting chevrons may be used to supplement plastic drums but not to replace plastic drums.

CHEVRONS

GENERAL NOTES

- 1. Work Zone channelizing devices illustrated on this sheet may be installed in close proximity to traffic and are suitable for use on high or low speed roadways. The Engineer/Inspector shall ensure that spacing and placement is uniform and in accordance with the "Texas Manual on Uniform Traffic Control Devices" (TMUTCD).
- 2. Channelizing devices shown on this sheet may have a driveable, fixed or portable base. The requirement for self-righting channelizing devices must be specified in the General Notes or other plan sheets.
- Channelizing devices on self-righting supports should be used in work zone areas where channelizing devices are frequently impacted by errant vehicles or vehicle related wind gusts making alignment of the channelizing devices difficult to maintain. Locations of these devices shall be detailed elsewhere in the plans. These devices shall conform to the TMUTCD and the "Compliant Work Zone Traffic Control Devices List" (CWZTCD).
- 4. The Contractor shall maintain devices in a clean condition and replace damaged, nonreflective, faded, or broken devices and bases as required by the Engineer/Inspector. The Contractor shall be required to maintain proper device spacing and alignment.
- 5. Portable bases shall be fabricated from virgin and/or recycled rubber. The portable bases shall weigh a minimum of 30 lbs.
- Povement surfaces shall be prepared in a manner that ensures proper bonding between the adhesives, the fixed mount bases and the povement surface. Adhesives shall be prepared and applied according to the manufacturer's
- 7. The installation and removal of channelizing devices shall not cause detrimental effects to the final pavement surfaces, including pavement surface discoloration or surface integrity. Driveable bases shall not be permitted on final pavement surfaces. The Engineer/Inspector shall approve all application and removal procedures of fixed bases.



LONGITUDINAL CHANNELIZING DEVICES (LCD)

36

Fixed Base w/ Approved Adhesive

(Driveable Base, or Flexible

Support can be used)

- 1. LCDs are crashworthy, lightweight, deformable devices that are highly visible, have good target value and can be connected together. They are not designed to contain or redirect a vehicle on impact.
- 2. LCDs may be used instead of a line of cones or drums.
- 3. LCDs shall be placed in accordance to application and installation requirements specific to the device, and used only when shown on the CWZTCD list.
- 4. LCDs should not be used to provide positive protection for obstacles, pedestrians or workers.
- 5. LCDs shall be supplemented with retroreflective delineation as required for temporary barriers on BC(7) when placed roughly parallel to the travel lanes.

as per manufacturer recommendations or flared to a point outside the clear zone.

of the unit shall not be less than 32 inches in height.

6. LCDs used as barricades placed perpendicular to traffic should have at least one row of reflective sheeting meeting the requirements for barricade rails as shown on BC(10). Place reflective sheeting near the top of the LCD along the full length of the device.

WATER BALLASTED SYSTEMS USED AS BARRIERS

- Water ballasted systems used as barriers shall not be used solely to channelize road users, but also to protect the work space per the appropriate Manual for Assessing Safety Hardware (MASH) crashworthiness requirements based on roadway speed and barrier application.
- Water ballasted systems used to channelize vehicular traffic shall be supplemented with retroreflective delineation or channelizing devices to improve daytime/nighttime visibility. They may also be supplemented with pavement markings.

 3. Water ballasted systems used as barriers shall be placed in accordance to application and installation requirements
- specific to the device, and used only when shown on the CWZTCD list. Water ballasted systems used as barriers should not be used for a merging taper except in low speed (less than 45 MPH
- urban areas. When used on a taper in a low speed urban area, the taper shall be delineated and the taper length should be designed to optimize road user operations considering the available geometric conditions. When water ballasted systems used as barriers have blunt ends exposed to traffic, they should be attenuated
 - If used to channelize pedestrians, longitudinal channelizing devices or water ballosted systems must have a continuous detectable bottom for users of long canes and the top

HOLLOW OR WATER BALLASTED SYSTEMS USED AS

LONGITUDINAL CHANNELIZING DEVICES OR BARRIERS

Posted Speed	Formula	D	Minimur esirab er Len **	ı e	Suggested Maximum Spacing of Channelizing Devices		
		10' Offset	11' Offset	12' Offset	O∩ a Taper	On a Tangent	
30	2	150′	165′	1801	30′	60'	
35	L = WS2	2051	2251	2451	35′	701	
40	6	2651	295′	3201	40′	80′	
45		450′	495′	540′	45′	90'	
50		5001	550′	600,	50′	100′	
55	L=WS	550′	6051	660′	55′	110'	
60	L-#3	600'	660,	720'	60′	120'	
65		650'	715′	7801	65′	130′	
70		700'	770'	840'	701	140'	
75		750′	8251	9001	75′	150′	
80		8001	880'	9601	80′	160'	

★★Taper lengths have been rounded off. L=Length of Taper (FT.) W=Width of Offset (FT.) S=Posted Speed (MPH)

SUGGESTED MAXIMUM SPACING OF CHANNELIZING DEVICES AND MINIMUM DESIRABLE TAPER LENGTHS

SHEET 9 OF 12



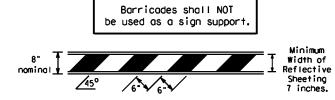
BARRICADE AND CONSTRUCTION CHANNELIZING DEVICES

BC (9) -21

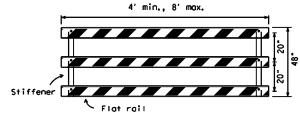
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TYPE 3 BARRICADES

- 1. Refer to the Compliant Work Zone Traffic Control Devices List (CWZTCD) for details of the Type 3 Barricades and a list of all materials used in the construction of Type 3 Barricades.
- Type 3 Barricades shall be used at each end of construction projects closed to all traffic.
- Barricades extending across a roadway should have stripes that slope downward in the direction toward which traffic must turn in detouring. When both right and left turns are provided, the chevron striping may slope downward in both directions from the center of the barricade. Where no turns are provided at a closed road, striping should slope downward in both directions toward the center of roadway.
- 4. Striping of rails, for the right side of the roadway, should slope downward to the left. For the left side of the roadway, striping should slope downward to the right.
- Identification markings may be shown only on the back of the barricade rails. The maximum height of letters and/or company logos used for identification shall be 1"
- Barricades shall not be placed parallel to traffic unless an adequate clear zone is provided.
- Warning lights shall NOT be installed on barricades.
- Where barricades require the use of weights to keep from turning over. the use of sandbags with dry, cohesionless sand is recommended. The sandbags will be tied shut to keep the sand from spilling and to maintain a constant weight. Sand bags shall not be stacked in a manner that covers any portion of a barricade rails reflective sheeting. Rock, concrete, iron, steel or other solid objects will NOT be permitted. Sandbags should weigh a minimum of 35 lbs and a maximum of 50 lbs. Sandbags shall be made of a durable material that tears upon vehicular impact. Rubber (such as tire inner tubes) shall not be used for sandbags. Sandbags shall only be placed along or upon the base supports of the device and shall not be suspended above ground level or hung with rope, wire, chains or other fasteners.
- Sheeting for barricades shall be retroreflective Type A or Type B conforming to Departmental Material Specification DMS-8300 unless otherwise noted.

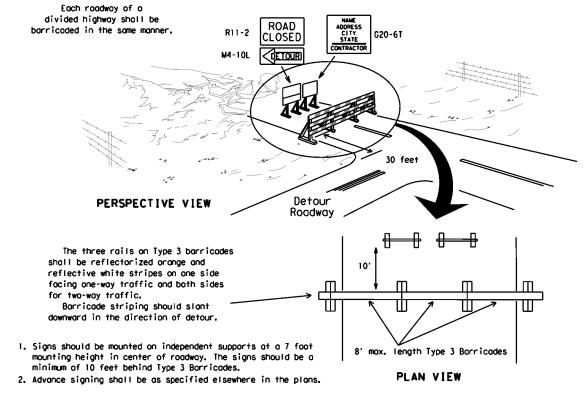


TYPICAL STRIPING DETAIL FOR BARRICADE RAIL

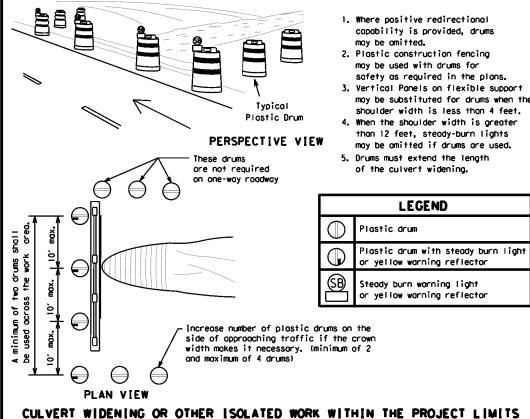


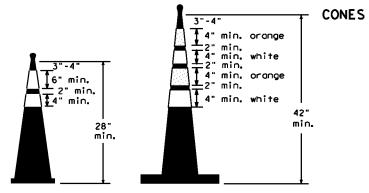
Stiffener may be inside or outside of support, but no more than 2 stiffeners shall be allowed on one barricade.

TYPICAL PANEL DETAIL FOR SKID OR POST TYPE BARRICADES

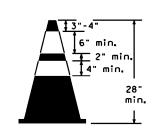


TYPE 3 BARRICADE (POST AND SKID) TYPICAL APPLICATION

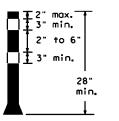




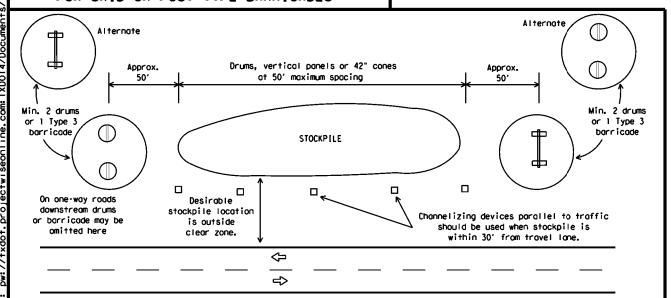
Two-Piece cones



One-Piece cones



Tubular Marker



TRAFFIC CONTROL FOR MATERIAL STOCKPILES

28" Cones shall have a minimum weight of 9 1/2 lbs.

42" 2-piece cones shall have a minimum weight of 30 lbs. including base.

- 1. Traffic cones and tubular markers shall be predominantly orange, and meet the height and weight requirements shown above.
- 2. One-piece cones have the body and base of the cone molded in one consolidated unit. Two-piece cones have a cone shaped body and a separate rubber base, or ballast, that is added to keep the device upright and in place.
- 3. Two-piece cones may have a handle or loop extending up to 8" above the minimum height shown, in order to aid in retrieving the device.
- 4. Cones or tubular markers shall have white or white and orange reflective bands as shown above. The reflective bands shall have a smooth, sealed outer surface and meet the requirements of Departmental Material Specification DMS-8300 Type A or Type B.
- 5. 28" cones and tubular markers are generally suitable for short duration and short-term stationary work as defined on BC(4). These should not be used for intermediate-term or long-term stationary work unless personnel is on-site to maintain them in their proper upright position.
- 6. 42" two-piece cones, vertical panels or drums are suitable for all work zone durations.
- 7. Cones or tubular markers used on each project should be of the same size and shape.





BARRICADE AND CONSTRUCTION CHANNEL IZING DEVICES

BC(10)-21

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- 2. Color, patterns and dimensions shall be in conformance with the "Texas Manual on Uniform Traffic Control Devices" (TMUTCD).
- 3. Additional supplemental pavement marking details may be found in the plans or specifications.
- 4. Povement markings shall be installed in accordance with the TMUTCD and as shown on the plans.
- 5. When short term markings are required on the plans, short term markings shall conform with the TMUTCD, the plans and details as shown on the Standard Plan Sheet WZ(STPM).
- 6. When standard pavement markings are not in place and the roadway is opened to traffic, DO NOT PASS signs shall be erected to mark the beginning of the sections where passing is prohibited and PASS WITH CARE signs at the beginning of sections where passing
- 7. All work zone pavement markings shall be installed in accordance with Item 662, "Work Zone Pavement Markings."

RAISED PAVEMENT MARKERS

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

PREFABRICATED PAVEMENT MARKINGS

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

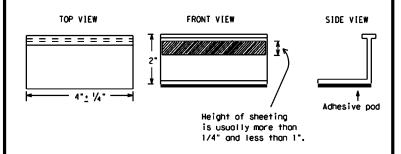
MAINTAINING WORK ZONE PAVEMENT MARKINGS

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

REMOVAL OF PAVEMENT MARKINGS

- 1. Pavement markings that are no longer applicable, could create confusion or direct a motorist toward or into the closed portion of the roadway shall be removed or obliterated before the roadway is opened to traffic.
- 2. The above shall not apply to detours in place for less than three days, where flaggers and/or sufficient channelizing devices are used in lieu of markings to outline the detour route.
- 3. Pavement markings shall be removed to the fullest extent possible, so as not to leave a discernable marking. This shall be by any method approved by TxDOT Specification Item 677 for "Eliminating Existing Povement Markings and Markers".
- 4. The removal of pavement markings may require resurfacing or seal coating portions of the roadway as described in Item 677.
- 5. Subject to the approval of the Engineer, any method that proves to be successful on a particular type povement may be used.
- 6. Blost cleaning may be used but will not be required unless specifically shown in the plans.
- 7. Over-painting of the markings SHALL NOT BE permitted.
- 8. Removal of raised pavement markers shall be as directed by the Engineer.
- 9. Removal of existing povement markings and markers will be paid for directly in accordance with Item 677, "ELIMINATING EXISTING PAVEMENT MARKINGS AND MARKERS, " unless otherwise stated in the plans.
- 10.Black-out marking tape may be used to cover conflicting existing markings for periods less than two weeks when approved by the Engineer.

Temporary Flexible-Reflective Roadway Marker Tabs



STAPLES OR NAILS SHALL NOT BE USED TO SECURE TEMPORARY FLEXIBLE-REFLECTIVE ROADWAY MARKER TABS TO THE PAVEMENT SURFACE

- 1. Temporary flexible-reflective roadway marker tabs used as guidemarks shall meet the requirements of DMS-8242.
- 2. Tabs detailed on this sheet are to be inspected and accepted by the Engineer or designated representative. Sampling and testing is not normally required, however at the option of the Engineer, either "A" or "B" below may be imposed to assure quality before placement on the
 - A. Select five (5) or more tabs at random from each lot or shipment and submit to the Construction Division, Materials and Pavement Section to determine specification compliance.
 - B. Select five (5) tabs and perform the following test. Affix five (5) tabs at 24 inch intervals on an asphaltic povement in a straight line. Using a medium size passenger vehicle or pickup, run over the markers with the front and rear tires at a speed of 35 to 40 miles per hour, four (4) times in each direction. No more than one (1) out of the five (5) reflective surfaces shall be lost or displaced as a result of this test.
- 3. Small design variances may be noted between tob manufacturers.
- 4. See Standard Sheet WZ(STPM) for tab placement on new pavements. See Standard Sheet TCP(7-1) for tab placement on seal coat work.

RAISED PAVEMENT MARKERS USED AS GUIDEMARKS

- 1. Raised pavement markers used as guidemarks shall be from the approved product list, and meet the requirements of DMS-4200.
- 2. All temporary construction raised pavement markers provided on a project shall be of the same manufacturer.
- Adhesive for quidemarks shall be bituminous material hot applied or butyl rubber pad for all surfaces, or thermoplastic for concrete surfaces.
- Guidemarks shall be designated as: YELLOW - (two amber reflective surfaces with yellow body). WHITE - (one silver reflective surface with white body).

DEPARTMENTAL MATERIAL SPECIFICATIO	NS
PAVEMENT MARKERS (REFLECTORIZED)	DMS-4200
TRAFFIC BUTTONS	DMS-4300
EPOXY AND ADHESIVES	DMS-6100
BITUMINOUS ADHESIVE FOR PAVEMENT MARKERS	DMS-6130
PERMANENT PREFABRICATED PAVEMENT MARKINGS	DMS-8240
TEMPORARY REMOVABLE, PREFABRICATED PAVEMENT MARKINGS	DMS-8241
TEMPORARY FLEXIBLE, REFLECTIVE ROADWAY MARKER TABS	DMS-8242

A list of pregualified reflective raised pavement markers. non-reflective traffic buttons, roadway marker tabs and other pavement markings can be found at the Material Producer List web address shown on BC(1).

SHEET 11 OF 12



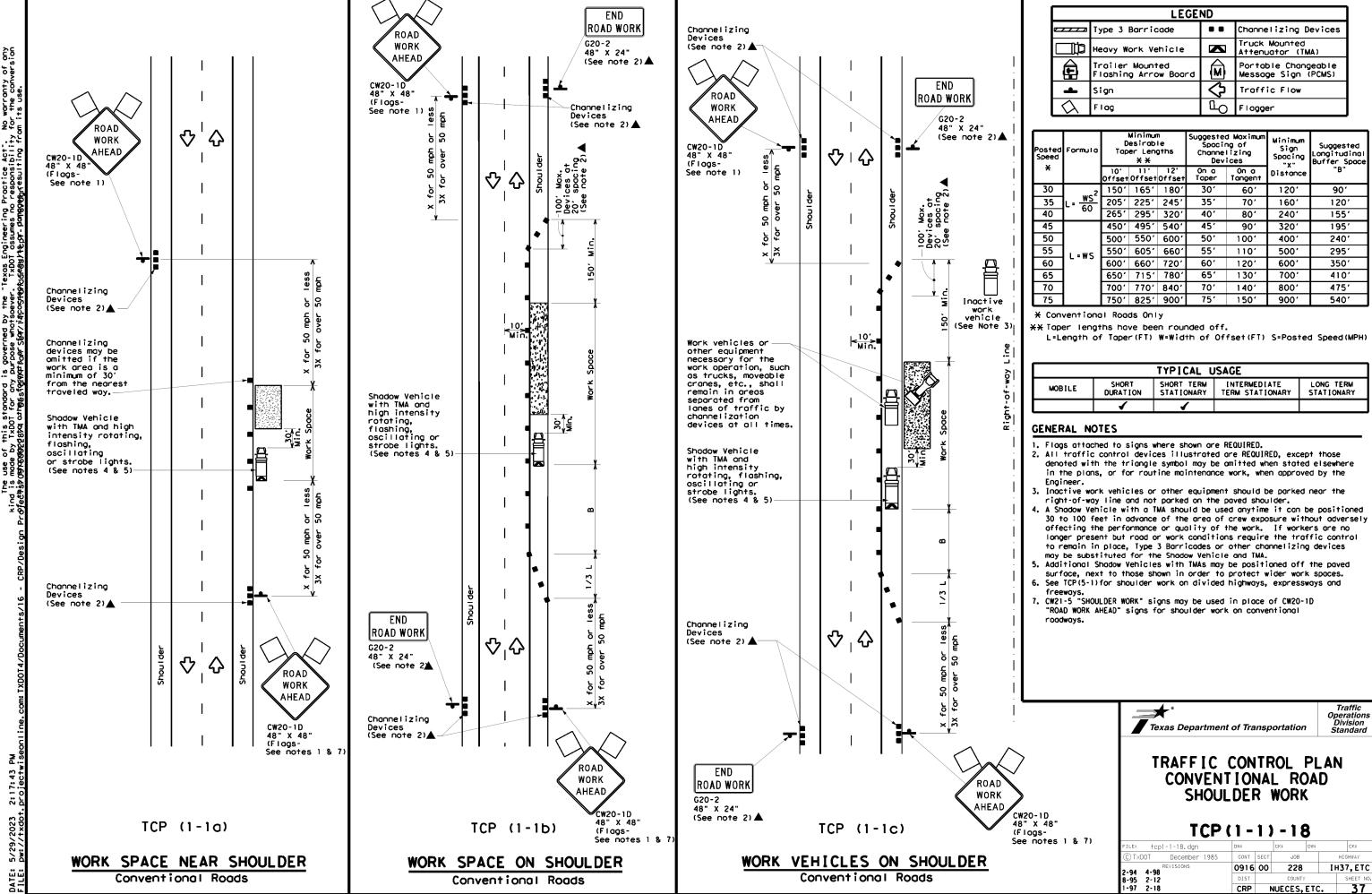
BARRICADE AND CONSTRUCTION PAVEMENT MARKINGS

BC(11)-21

DN: TXDOT CK: TXDOT DW: TXDOT CK: TXDO bc-21.dgn C)TxDOT February 1998 0916 00 228 IH37, ETC 2-98 9-07 5-21 1-02 7-13 11-02 8-14 CRP NUECES, ETC.

lexas Engineering Practice Act". No warranty of any TXDO assumes no responsibility for the conversion tresults or danges resulting from its use.

5/29/2023 2:17:17 PM



warranty of any the conversion

	LEGEND							
~	_	Type 3 Barricade	••	Channelizing Devices				
	Þ	Heavy Work Vehicle	K	Truck Mounted Attenuator (TMA)				
•		Trailer Mounted Flashing Arrow Board		Portable Changeable Message Sign (PCMS)				
4	Г	Sign	♦	Traffic Flow				
\bigcirc	λ	Flag	Ф	Flagger				

						$\overline{}$			_
Posted Speed	Formula	Desirable Space Taper Lengths Chann		Spacii Channe	ed Maximum ing of elizing vices Spacing "X"		Suggested Longitudinal Buffer Space	Stopping Sight Distance	
*		10' Offset	11' Offset	12" Offset	On a Taper	On a Tangent	Distance	-B	
30	2	150'	1651	1801	30'	60′	120'	90,	2001
35	L = WS ²	2051	225'	2451	35′	70′	160'	120′	250′
40	6	265′	295′	3201	40′	80,	240'	1551	3051
45		450′	495′	5401	45′	90'	320'	1951	360'
50		5001	550′	6001	50'	100′	4001	240′	425'
55	L=WS	550'	6051	6601	55′	110'	500′	2951	4951
60	L-#3	600,	6601	7201	60′	120'	600'	350′	570′
65		6501	7151	780′	65′	130'	700′	410'	645'
70		7001	770'	8401	70′	140′	8001	475′	730′
75		750′	8251	9001	75′	150'	900'	540′	8201

- * Conventional Roads Only
- ** Taper 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			
	1	1					

GENERAL NOTES

- 1. Flags attached to signs where shown are REQUIRED.
- All traffic control devices illustrated are REQUIRED, except those denoted with the triangle symbol may be omitted when stated elsewhere in the plans, or for routine maintenance work, when approved by the Engineer.
- The CW3-4 "BE PREPARED TO STOP" sign may be installed after the CW20-4D "ONE LANE ROAD AHEAD" sign, but proper sign spacing shall be maintained.
- 4. Sign spacing may be increased or an additional CW20-1D "ROAD WORK AHEAD" sign may be used if advance warning ahead of the flagger or R1-2 "YIELD" sign is less than 1500 feet.
- 5. A Shadow Vehicle with a TMA should be used anytime it can be positioned 30 to 100 feet in advance of the area of crew exposure without adversely affecting the performance or quality of the work. If workers are no longer present but road or work conditions require the traffic control to remain in place, Type 3 Barricades or other channelizing devices may be substituted for the Shadow Vehicle and TMA.
- Additional Shadow Vehicles with TMAs may be positioned off the paved surface, next to those shown in order to protect wider work spaces.

TCP (1-2a)

- 7. R1-2 "YIELD" sign traffic control may be used on projects with approaches that have adequate sight distance. For projects in urban areas, work spaces should be no longer than one half city block. In rural areas on roadways with less than 2000 ADT, work spaces should be no longer than 400 feet.
- R1-2 "YIELD" sign with R1-2aP "TO ONCOMING TRAFFIC" plaque shall be placed on a support at a 7 foot minimum mounting height.

TCD (1 35

- 9. Flaggers should use two-way radios or other methods of communication to control traffic.
- Length of work space should be based on the ability of flaggers to communicate.
 If the work space is located near a horizontal or vertical curve, the buffer distances should be increased in order to maintain adequate stopping sight distance to the flagger
- and a queue of stopped vehicles (see table above).

 12. Channelizing devices on the center-line may be omitted when a pilot car is leading traffic and approved by the Engineer.
- Flaggers should use 24" STOP/SLOW paddles to control traffic. Flags should be limited to emergency situations.



Traffic Operations Division Standard

TRAFFIC CONTROL PLAN
ONE-LANE TWO-WAY
TRAFFIC CONTROL

TCP(1-2)-18

FILE: †cp1-2-18.dgn	DN:		CK:	DW:		CK:
© TxDOT December 1985	CONT	SECT	JOB		HIC	SHWAY
4-90 4-98	0916	00	228 I		Н3	7,ETC
2-94 2-12	DIST		COUNTY			SHEET NO.
1-97 2-18	CRP	N	WECES,	ETC.		38

	LEGEND							
~~~	Type 3 Barricade	••	Channelizing Devices					
	Heavy Work Vehicle		Truck Mounted Attenuator (TMA)					
Ê	Trailer Mounted Flashing Arrow Board		Portable Changeable Message Sign (PCMS)					
-	Sign	♡	Traffic Flow					
$\Diamond$	Flag	Ф	Flagger					

Posted Speed	**		Spacii Channe		Minimum Sign Spacing	Suggested Longitudinal Buffer Space		
*		10' Offset	11' Offset	12' Offset	On a Taper	On a Tangent	Distance	"B"
30	2	1501	1651	1801	30′	60′	1201	90,
35	L= WS2	2051	225'	245′	35′	701	160'	1201
40	6	265′	295′	320′	40′	80'	240'	1551
45		450′	4951	540′	45′	90,	3201	1951
50		5001	550′	6001	50′	100′	4001	240′
55	L=WS	550'	6051	660′	55′	110′	500′	295′
60	- " 3	600'	660'	720′	60,	120'	600'	350′
65		6501	715′	780′	65′	130′	700′	410'
70		7001	770′	840'	701	140′	800′	475′
75		750′	8251	9001	75′	150′	900'	540′

- * Conventional Roads Only
- ** Taper 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			
	1	1					

#### GENERAL NOTES

ROAD WORK G20-2 48" X 24"

CW1-6aT

CW1-6aT

36" X 36"

48" X 48"

CW13-1P

AHEAD CW20-1D 48" X 48"

24" X 24"

(See note 2)▲

(Flags-See note 1)

X X MPH

ROAD

WORK

(See note 2)▲

- 1. Flags attached to signs where shown are REQUIRED.
- 2. All traffic control devices illustrated are REQUIRED, except those denoted with the triangle symbol may be omitted when stated elsewhere in the plans, or for routine maintenance work, when approved by the Engineer.
- 3. Flagger control should NOT be used unless roadway conditions or heavy traffic volume require additional emphasis to safely control traffic. Additional flaggers may be positioned in advance of traffic queues to alert traffic to reduce speed.
- 4. DO NOT PASS, PASS WITH CARE and construction regulatory spee zone signs may be installed downstream of the ROAD WORK AHEAD signs.
- 5. When the work zone is made up of several work spaces, channelizing devices should be placed laterally across the closed lane to re-emphasize closure. Laterally placed channelizing devices should be repeated every 500 to 1000 feet in urban areas and every 1/4 to 1/2 mile in rural areas.
- 6. A Shadow Vehicle with a TMA should be used anytime it can be positioned 30 to 100 feet in advance of the area of crew exposure without adversely affecting the performance or quality of the work. If workers are no longer present but road or work conditions require the traffic control to remain in place, Type 3 Barricades or other channelizing devices may be substituted for the Shadow Vehicle and TMA.
- 7. Additional Shadow Vehicles with TMAs may be positioned off the paved
- surface, next to those shown in order to protect wider work spaces. 8. Where traffic is directed over a yellow centerline, channelizing devices which separate two-way traffic should be spaced on tapers at 20', or 15' if posted speed are 35 mph or slower, and for tangent sections, at 1/2S where S is the speed in mph. This tighter device spacing is intended for the area of conflicting markings not the entire work zone.



TCP(1-3)-18

December 1985 IH37, ETC 0916 00 228 8-95 2-12 1-97 2-18 CRP NUECES, ETC.

2-LANE ROADWAY WITH PAVED SHOULDERS ONE LANE CLOSED ADEQUATE FIELD OF VIEW

ONE LANE CLOSED INADEQUATE FIELD OF VIEW

2-LANE ROADWAY WITH PAVED SHOULDERS

ONE LANE CLOSED

LEGEND							
	Type 3 Barricade	••	Channelizing Devices				
	Heavy Work Vehicle	K	Truck Mounted Attenuator (TMA)				
	Trailer Mounted Flashing Arrow Board	(M	Portable Changeable Message Sign (PCMS)				
+	Sign	∿	Traffic Flow				
$\Diamond$	Flag	D	Flagger				
	-		- 33-				

L	<u> </u>	lag			ЩС	∐ Flagger			
Posted Speed	Formula	D	Minimur esirob er Lend **	le	Suggested Maximum Spacing of Channelizing Devices		Sign Sugges Spacing Longitu "X"		
*		10' Offset	11' Offset	12' Offset	On a Taper	On a Tangent	Distance	"B"	
30	ws ²	150′	165′	1801	30,	60′	120'	90′	
35	L= WS	2051	2251	2451	35′	701	160'	120′	
40	60	265'	295′	3201	40′	80'	240'	1551	
45		450′	4951	540′	451	90'	3201	1951	
50		5001	5501	6001	50°	1001	400'	240'	
55	L=WS	550′	6051	660'	55′	110′	500'	295′	
60	L - W 5	6001	6601	7201	60,	1201	600'	350′	
65		6501	715′	780′	651	1301	700′	410'	
70		7001	770′	840′	701	140′	800'	475′	
75		750′	8251	900′	75′	1501	900'	540′	

* Conventional Roads Only

END ROAD WORK

CW13-1P 24" X 24" (See note 2)

CW1-6aT

36" X 36"

CW1-4L 48" X 48"

24" X 24"

CW20-5TR

CW20-1D

48" X 48" (Flags-See note 1)

ROAD

WORK

AHEAD

(See note 2)▲

XX CW13-1P

(See note 2)▲

G20-2 48" X 24"

200' Approx. 1/2 L Min.

TCP (1-4b)

TWO LANES CLOSED

₩ Taper 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			
	1	1					

#### GENERAL NOTES

- 1. Flags attached to signs where shown are REQUIRED. 2. All traffic control devices illustrated are REQUIRED, except those denoted with the triangle symbol may be omitted when stated elsewhere in the plans,
- or for routine maintenance work, when approved by the Engineer. 3. The CW20-1D "ROAD WORK AHEAD" sign may be repeated if the
- visibility of the work zone is less than 1500 feet.

  4. A Shadow Vehicle with a TMA should be used anytime it can be positioned 30 to 100 feet in advance of the area of crew exposure without adversely affecting the performance or quality of the work. If workers are no longer present but road or work conditions require the traffic control to remain in place, Type 3 Barricades or other channelizing devices may be substituted for the Shadow Vehicle and TMA.
- 5. Additional Shadow Vehicles with TMAs may be positioned off the paved surface, next to those shown in order to protect wider work spaces.

6. If this TCP is used for a left lane closure, CW20-5TL "LEFT LANE CLOSED" signs shall be used and channelizing devices shall be placed on the centerline where needed to protect the work space from opposing traffic with the arrow panel placed in the closed lane near the end of the merging taper.

TCP (1-4b) 7. Where traffic is directed over a yellow centerline, channelizing devices which separate two-way traffic should be spaced on tapers at 20' or 15' if posted speeds are 35 mph or slower, and for tangent sections, at 1/25 where S is the speed in mph. This tighter device spocing is intended for the areas of conflicting markings, not the entire work zone.



Traffic Operations Division Standard

TRAFFIC CONTROL PLAN LANE CLOSURES ON MULTILANE CONVENTIONAL ROADS

TCP(1-4)-18

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FILE:	tcp1-4-18.dgn	DN:		CK:	DW:		CK:
© T×D0T	December 1985	CONT	SECT	JOB			SHWAY
2-94 4-98		0916	00	228		[H3]	7,ETC
	-12	DIST		COUNTY			SHEET NO.
1-97 2-	-18	CRP	1	NUECES.	ETC.		40

**LEGEND** Type 3 Barricade Channelizing Devices ruck Mounted Heavy Work Vehicle Attenuator (TMA) Portable Changeable Message Sign (PCMS) railer Mounted Flashing Arrow Board Traffic Flow Sign

L	(A)	lag			ا مح	) Flagge	er	
Posted Speed	Formula	Desiroble		Desirable Spacing of Channelizing		ng of Lizing	Minimum Sign Spacing "x"	Suggested Longitudinal Buffer Space
*		10' Offset	11' Offset	12' Offset	O∩ a Taper	On a Tangent	Distance	"В"
30	2	150′	165'	180′	30'	60′	1201	90,
35	L = WS2	2051	225′	2451	35′	70′	160'	120′
40	80	2651	2951	3201	40′	80'	240'	1551
45		4501	4951	540'	45′	90'	320'	195′
50		5001	550'	600'	50′	1001	400'	240′
55	L=WS	550′	6051	660'	55′	110'	500′	295′
60	L-W3	600'	6601	720'	60′	120'	600'	350′
65		650′	715′	7801	65′	1301	7001	410′
70		7001	770'	8401	701	140′	8001	475′
75		7501	8251	9001	75′	150′	900′	540′

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						
		1								

- 1. Flags attached to signs where shown, are REQUIRED. 2. All traffic control devices illustrated are REQUIRED, except those denoted with the triangle symbol may be omitted when stated elsewhere in the plans, or for routine maintenance work, when approved by the

3. Channelizing devices used to close lanes may be supplemented with the Chevron Alignment Sign placed on every other channelizing device. Chevrons may be attached to plastic drums as per BC Standards.

- Shadow Vehicle with TMA and high intensity rotating, flashing, oscillating or strobe lights. A Shadow Vehicle with a TMA should be used anytime it can be positioned 30 to 100 feet in advance of the area of crew exposure without adversely affecting the performance or quality of the work. If workers are no longer present but road or work conditions require the traffic control to remain in place, Type 3 Barricades or other channelizing devices may be substituted for the
- Additional Shadow Vehicles with TMAs may be positioned in each closed lane, on the shoulder or off the paved surface, next to those shown in order to protect a wider work space.

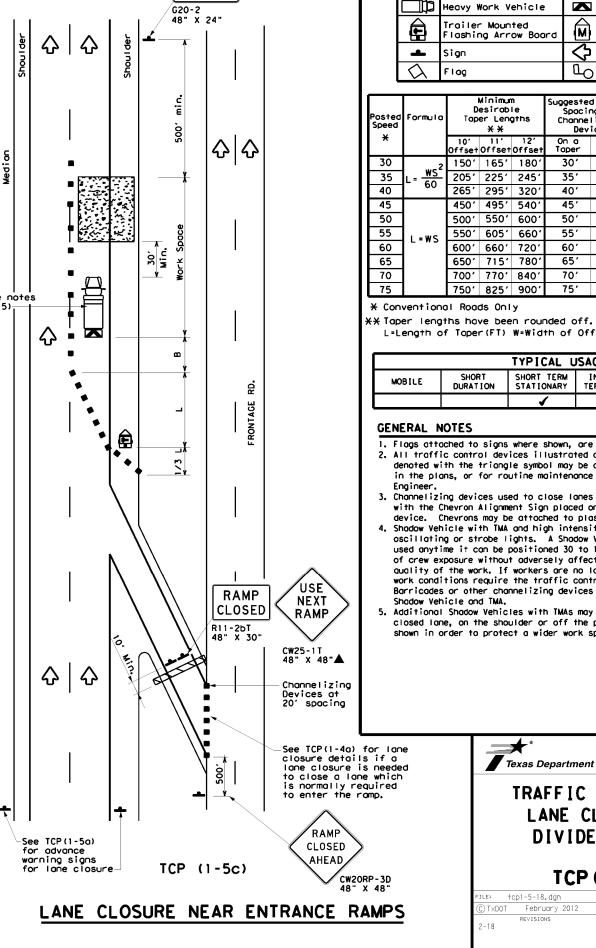


TRAFFIC CONTROL PLAN LANE CLOSURES FOR DIVIDED HIGHWAYS

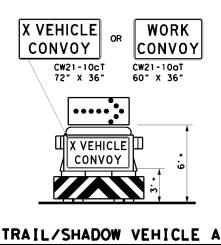
Traffic Operations Division Standard

TCP(1-5)-18

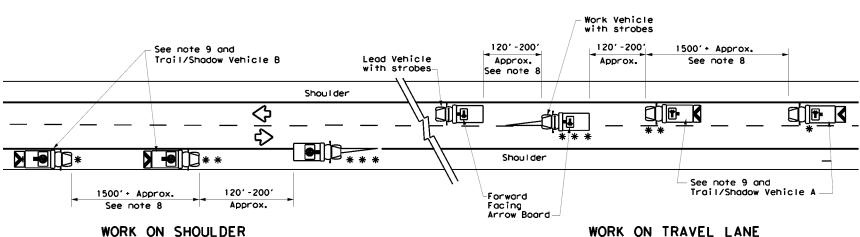
		CRP	1	NUECES,	ETC.		41	
10		DIST		COUNTY			SHEET NO.	
18	REVISIONS	0916	00	228		IH3	7, ETC	
T×DOT	February 2012	CONT	SECT	JOB		Н	EGHWAY	
E: †c	p1-5-18. dgn	DN:		CK:	DW:		CK:	



END Road Work



with RIGHT Directional display Flashing Arrow Board



Lead Vehicle

with strobes-

Forward Facing
Arrow Board —

120'-200' Approx.

See note 8

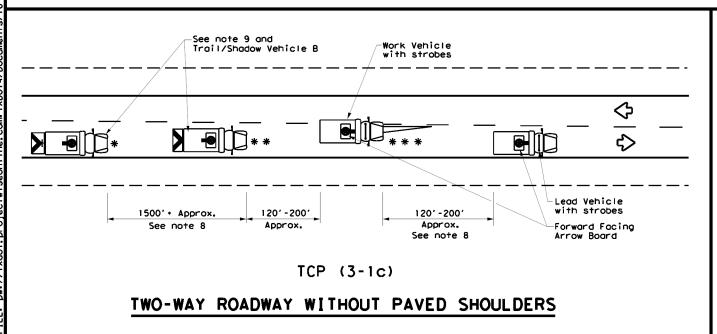
♦

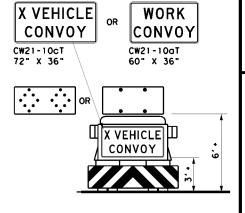
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<>

TCP (3-1b)

# TWO-WAY ROADWAY WITH PAVED SHOULDERS





# TRAIL/SHADOW VEHICLE B

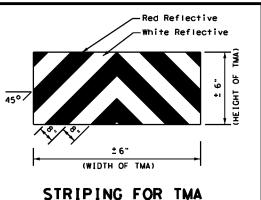
with Flashing Arrow Board in CAUTION display

LEGEND									
*	Trail Vehicle		ARROW BOARD DISPLAY						
* *	Shadow Vehicle	ARROW BOARD DISPLAY							
* * *	Work Vehicle	<b>†</b>	RIGHT Directional						
	Heavy Work Vehicle	4	LEFT Directional						
	Truck Mounted Attenuator (TMA)	<b>#</b>	Double Arrow						
\$\frac{1}{2}\$	Traffic Flow	•	CAUTION (Alternating Diamond or 4 Corner Flash)						

TYPICAL USAGE									
MOBILE	SHORT DURATION		INTERMEDIATE TERM STATIONARY	LONG TERM STATIONARY					
1									

#### GENERAL NOTES

- TRAIL. SHADOW, and LEAD vehicles shall be equipped with arrow boards as illustrated. When a LEAD vehicle is not used the WORK vehicle must be equipped with an arrow board. The Engineer will determine if the LEAD VEHICLE and/or TRAIL VEHICLE are required based on prevailing roadway conditions, traffic volume, and sight distance restrictions.
- 2. The use of amber high intensity rotating, flashing, oscillating, or strobe lights on vehicles are required. Blue high intensity rotating, flashing, oscillating or strobe lights when mounted on the driver's side of the vehicle may be operated simultaneously with the amber beacons or strobe lights.
- 3. The use of truck mounted attenuators (TMA) on the SHADOW VEHICLE and TRAIL VEHICLE are required.
- Reflective sheeting on the rear of the TMA shall meet or exceed the reflectivity and color requirements of DEPARTMENTAL MATERIAL SPECIFICATION DMS 8300, Type A.
- Flashing arrow boards shall be Type B or Type C as per the Barricade and Construction (BC) standards. The board shall be controlled from inside the vehicle.
- Each vehicle shall have two-way radio communication capability.
- When work convoys must change lanes, the TRAIL VEHICLE should change lanes first to shadow the other convoy vehicles.
- Vehicle spacing between the TRAIL VEHICLE and the SHADOW VEHICLE will vary depending on sight distance restrictions. Motorists approaching the work convoy should be able to see the TRAIL VEHICLE in time to slow down and/or change lanes as they approach the TRAIL VEHICLE. Vehicle spacing between the WORK VEHICLE and SHADOW VEHICLE and vehicle spacing between WORK VEHICLE and LEAD VEHICLE may vary according to terrain, work activity and other factors.
- "X VEHICLE CONVOY" (CW21-10cT) or "WORK CONVOY" (CW21-10aT) signs shall be used on TRAIL VEHICLES and SHADOW VEHICLES as shown. As an option 48" X 48" diamond shaped "WORK CONVOY" (CW21-10T) or "X VEHICLE CONVOY" (CW21-10bT) signs may be used where adequate mounting space exists. When used, the X VEHICLE CONVOY sign shall have the number of the convoy vehicles displayed on the sign in the number designation "X" location. The "X VEHICLE CONVOY" sign shall not be used on the SHADOW VEHICLE if a TRAIL VEHICLE is used.
- 10. On two-lane two-way roadways, the work and protection vehicles should pull over periodically to allow motor vehicle traffic to pass. If motorists are not allowed to pass the work convoy, a "DO NOT PASS" (R4-1) sign should be placed on the back of the rearmost protection vehicle.



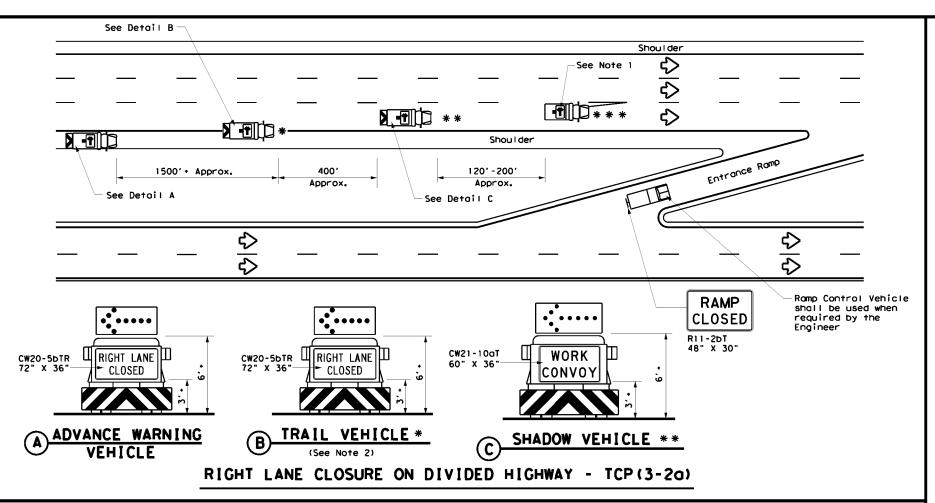


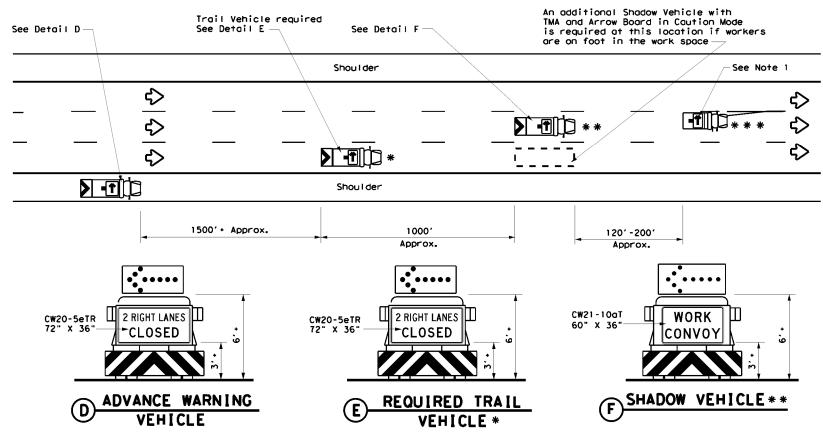
# TRAFFIC CONTROL PLAN MOBILE OPERATIONS UNDIVIDED HIGHWAYS

Traffic Operations Division Standard

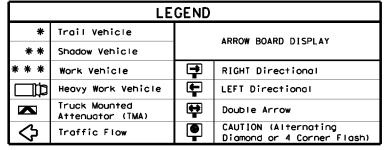
TCP(3-1)-13

tcp3-1.dgn C)TxDOT December 1985 0916 00 228 IH37, ETC CRP NUECES, ETC.





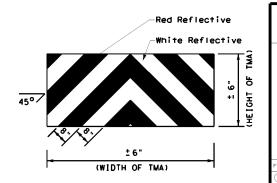
INTERIOR LANE CLOSURE ON MULTI-LANE DIVIDED HIGHWAY - TCP(3-2b)



TYPICAL USAGE									
MOBILE	SHORT DURATION	SHORT TERM STATIONARY	INTERMEDIATE TERM STATIONARY	LONG TERM STATIONARY					

#### **GENERAL NOTES**

- ADVANCE WARNING. TRAIL and SHADOW vehicles shall be equipped with Type B or Type C flashing arrow boards as per the Barricade and Construction (BC) standards. Arrow boards on WORK vehicles will be optional based on the type of work being performed. The arrow boards shall be operated from inside the vehicle.
- For TCP(3-2a) the Engineer will determine if the TRAIL VEHICLE is required based on prevailing roadway conditions, traffic volume, and sight distance restrictions. All other vehicles shown for both TCP(3-2a) and TCP(3-2b) are required.
- The use of amber high intensity rotating, flashing, oscillating, or strobe lights on vehicles are required. Blue high intensity rotating, flashing, oscillating or strobe lights when mounted on the driver's side of the vehicle may be operated simultaneously with the amber beacons or strobe lights.
- The use of truck mounted attenuators (TMA) on the ADVANCE WARNING, SHADOW, and TRAIL vehicles are required.
- Reflective sheeting on the rear of the TMA shall meet or exceed the reflectivity and color requirements of DMS 8300, Type A.
- Each vehicle shall have two-way radio communication capability.
- When work convoys must change lanes, the TRAIL VEHICLE should change lanes first to shadow the other convoy vehicles.
- Vehicle spacing between the TRAIL VEHICLE and the SHADOW VEHICLE will vary depending on sight distance restrictions. Motorists approaching the work convoy should be able to see the TRAIL VEHICLE in time to slow down and/or change lanes as they approach the TRAIL VEHICLE. Vehicle spacing between the WORK VEHICLE and SHADOW VEHICLE may vary according to terrain, work activity and other factors.
- Standard 48" X 48" diamond shaped warning signs with the same message as those shown may be used where adequate mounting space exists.
- 10. The signs shown should be used on the Advance Warning Vehicle. As an option, a portable changeable message sign (PCMS) or a truck mounted changeable message sign (TMCMS) with a minimum character height of 12", and displaying the same legend may be substituted for these signs. An appropriate directional arrow display, simulating the size and legibility of the flashing arrow board, must be used in the second phase of the PCMS/TMCMS message. When this is done, the arrow board will not be required on the
- 11. Standard diamond shape versions of the CW20-5 series signs may be used as an option if the rectangular signs shown are not available.
- 12. The principles on this sheet may be used to close lanes from the left side of the roadway considering the number of lanes, shoulder width, sight distance, and ramp
- 13. Signs and flashing arrow board modes shall be appropriately altered when implementing left lane closures or interior closures which close the left lanes.
- 14. The Advance Warning Vehicle may straddle the edgeline when shoulder width makes it necessary.



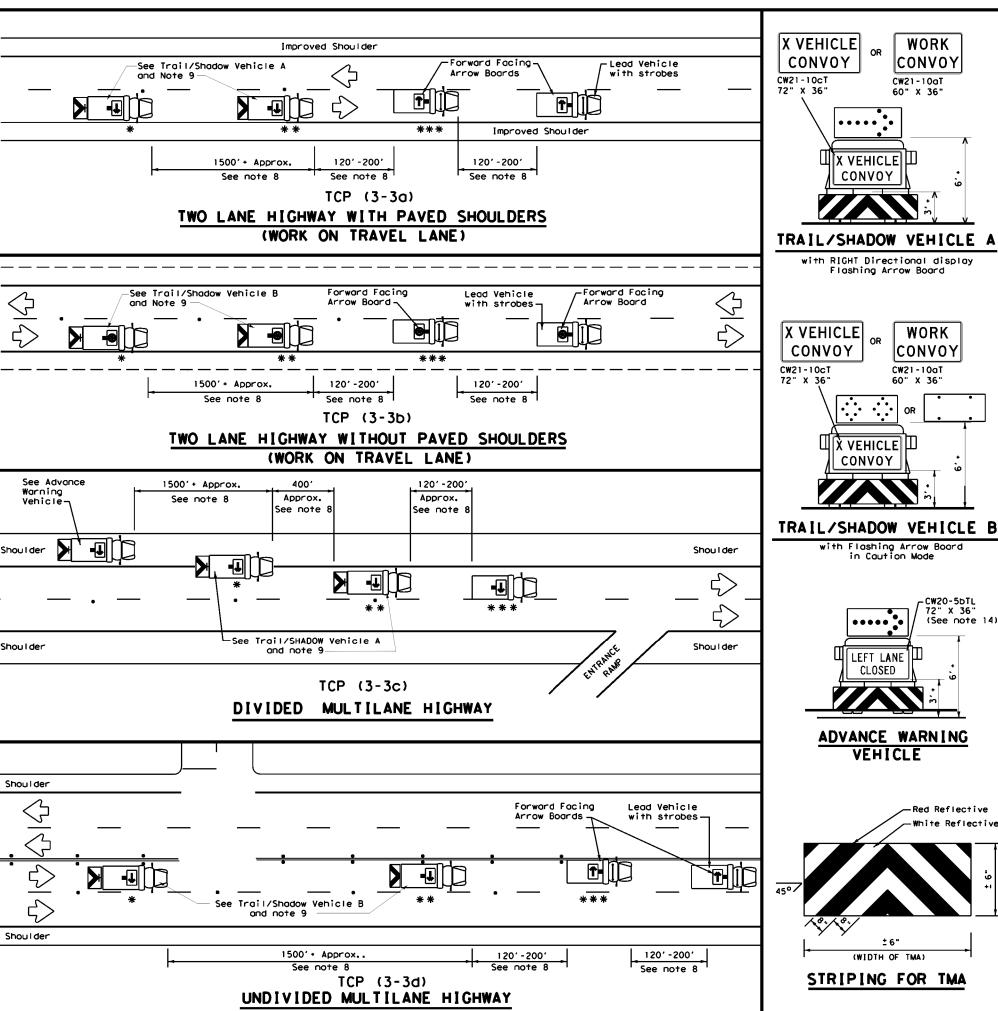
STRIPING FOR TMA

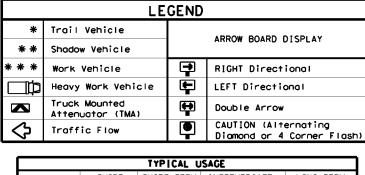


# TRAFFIC CONTROL PLAN MOBILE OPERATIONS DIVIDED HIGHWAYS

TCP (3-2) -13

-95 7-13 -97	CRP		COUNTY		SHEET NO.
-94 4-98		00		111	
TxDOT December 1985 REVISIONS	0916	SECT	JOB 228	TI	HIGHWAY
ile: tcp3-2.dgm		×DOT	ck: TxDOT [	ow: T×DC	





TYPICAL USAGE									
MOBILE	MOBILE SHORT SHORT TERM INTERMEDIATE LONG TERM DURATION STATIONARY TERM STATIONARY STATIONARY								
1									

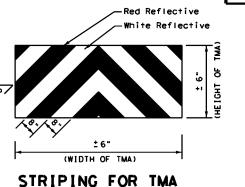
#### GENERAL NOTES

- 1. TRAIL, SHADOW, and LEAD vehicles shall be equipped with arrow boards as illustrated. When a LEAD vehicle is not used on two way roads the WORK vehicle must have an arrow board. For divided roadways, the arrow board on the WORK vehicle is optional based on the type of work being performed. The Engineer will determine if the LEAD vehicle and/or TRAIL vehicle are required based on
- prevailing roadway conditions, traffic volume, and sight distance restrictions. The use of amber high intensity rotating, flashing, oscillating, or strobe lights on vehicles are required. Blue high intensity rotating, flashing, oscillating, or strobe lights when mounted on the driver's side of the vehicle may be operated simultaneously with the omber begons or strobe lights.
- The use of truck mounted attenuators (TMA) on the SHADOW VEHICLE, ADVANCE WARNING and TRAIL VEHICLE are required.
- Reflective sheeting on the rear of the TMA shall meet or exceed the reflectivity and color requirements of DEPARTMENTAL MATERIAL SPECIFICATION
- Flashing arrow boards shall be Type B or Type C as per the Barricade and Construction (BC) standards. The board shall be controlled from inside the

- When work convoys must change lanes, the TRAIL VEHICLE should change lanes first to shadow the other convoy vehicles.

  Vehicle spacing between the TRAIL VEHICLE and the SHADOW VEHICLE will vary depending on sight distance restrictions. Motorists approaching the convoy should be able to see the TRAIL VEHICLE in time to slow down and/or change lanes as they approach the TRAIL VEHICLE. Vehicle spacing between the WORK
- VEHICLE and SHADOW VEHICLE and vehicle spacing between WORK VEHICLE and LEAD VEHICLE may vary according to terrain, work activity and other factors. X VEHICLE CONVOY (CW21-10CT) or WORK CONVOY (CW21-10CT) or Spacing between WORK VEHICLE and SHADOW VEHICLES as shown. As an option 48" x 48" diamond shaped WORK CONVOY (CW21-10T) or X VEHICLE CONVOY (CW21-10DT) signs may be used where adequate mounting space exists. When used, the X VEHICLE CONVOY sign shall have the number of the convoy vehicles displayed on the sign in the number designation "X" location. The X VEHICLE CONVOY sign shall not be used on the SHADOW VEHICLE if a TRAIL VEHICLE is used.
- used on the SHADOW VEHICLE if a TRAIL VEHICLE is used.

  10. For divided highways with two or three lanes in one direction, the appropriate LEFT LANE CLOSED (CW20-5bTL), RIGHT LANE CLOSED (CW20-5bTR), or CENTER LANE CLOSED (CW20-5dT) sign should be used on the Advance Warning Vehicle. As an option, a portable changeable message sign (PCMS) or truck mounted changeable message sign (TMCMS) with a minimum character height of 12", and displaying the same legend may be substituted for these signs. An appropriate directional arrow display, simulating the size and legibility of the flashing arrow board may be used in the second phase of the PCMS/TMCMS message. Warning Vehicle. the arrow board will not be required on the Advance Warning Vehicle.
- 11.A double arrow shall not be displayed on the arrow board on the Advance Warning
- 12. For divided highways with three or four lanes in each direction, use TCP(3-2),
- 13. Standard diamond shape versions of the CW20-5 series signs may be used as an option if the rectangular signs shown are not available.
- 14. The Advance Warning Vehicle may straddle the edgeline when Shoulder width makes it necessory.
- 15.On two-lane two-way roadways, the work and protection vehicles should pull over periodically to allow motor vehicle traffic to pass. If motorists are not allowed to pass the work convoy, a DO NOT PASS (R4-1) sign should be placed on the back of the rearmost protection vehicle.



WORK

CONVOY

CW21-10aT

60" X 36"

X VEHICLE

Flashing Arrow Board

X VEHICLE

with Flashing Arrow Board in Caution Mode

LEFT LANE CLOSED

ADVANCE WARNING

VEHICLE

CW20-5bTL 72" X 36" (See note 14)

CONVOY

WORK

CONVOY

CW21-10aT

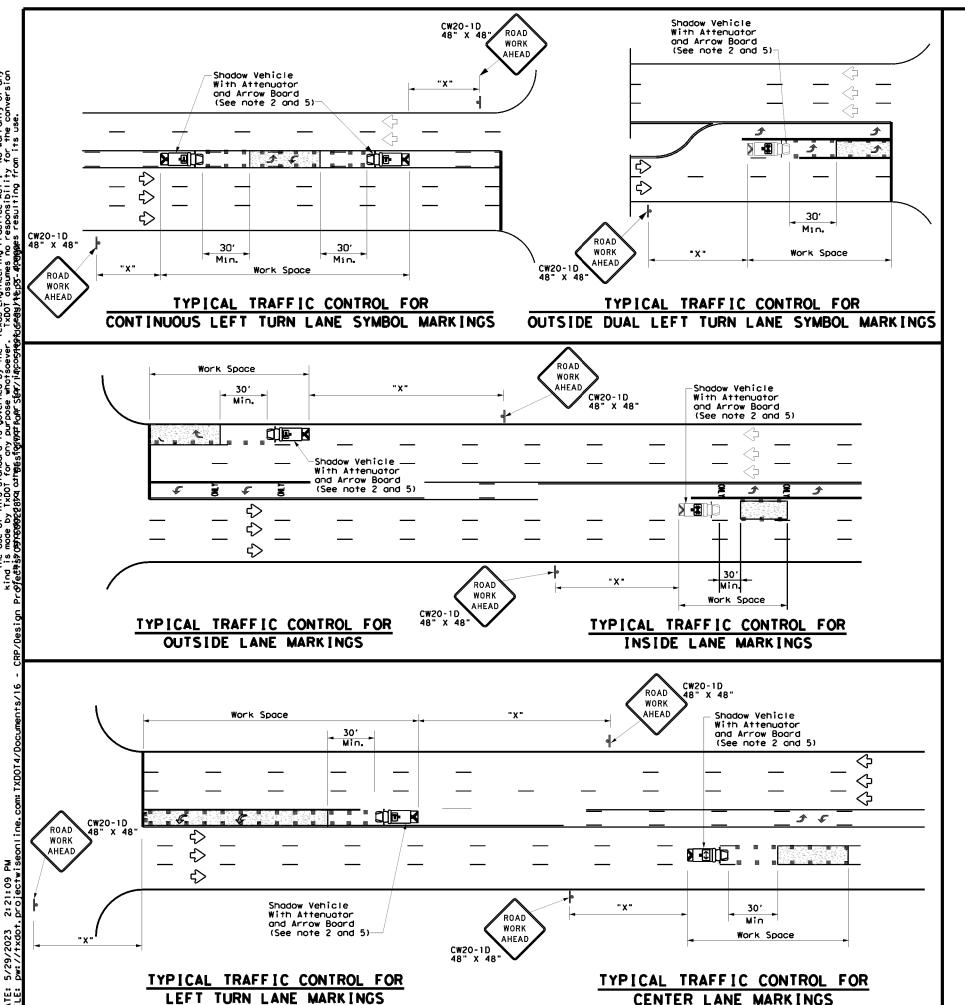
CONVOY

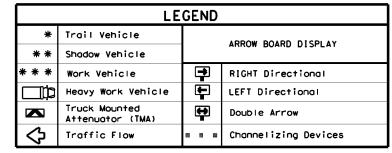


TRAFFIC CONTROL PLAN MOBILE OPERATIONS RAISED PAVEMENT MARKER INSTALLATION/ REMOVAL TCP (3-3) - 14

Traffic Operations Division Standard

	1-97 7-1	4	CRP	N	IUECES, I	ETC		44
	REVISIONS 2-94 4-98 8-95 7-13		DIST		COUNTY			SHEET NO.
			0916	00	228 I		ĮH.	37, ETC
	© TxDOT	September 1987	CONT	SECT	JOB		H	HIGHWAY
	FILE:	top3-3.dgn	DN: T)	<dot< th=""><th>ck: TxDOT</th><th>DW:</th><th>T×DOT</th><th>ck: TxD0</th></dot<>	ck: TxDOT	DW:	T×DOT	ck: TxD0





Speed	Minimum Desirable Formula Taper Lengths **		le	Spacii Channe		Minimum Sign Spacing "x"	Suggested Longitudinal Buffer Space	
*		10' Offset	11' Offset	12' Offset	On a Taper	On a Tangent	Distance	-B
30	2	150'	1651	1801	30′	60′	1201	90′
35	L= WS2	2051	225'	2451	35′	701	160'	1201
40	80	265′	2951	3201	40′	801	240'	1551
45		450′	4951	5401	45′	90'	320'	195′
50		5001	5501	600'	50′	100'	4001	240'
55	L=WS	550′	6051	660′	55′	110'	5001	295′
60	- "3	600'	660'	7201	60′	120'	600'	350′
65		6501	715′	7801	65′	130'	700′	410'
70		7001	770′	8401	70′	140′	800,	475′
75		750′	8251	900'	75′	150′	900′	540′

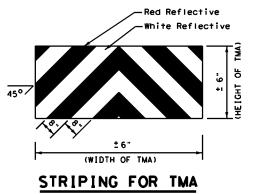
- * Conventional Roads Only
- ** Taper lengths have been rounded off.

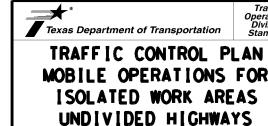
L=Length of Taper(FT) W=Width of Offset(FT) S=Posted Speed(MPH)

		TYPICAL L	JSAGE	
MOBILE	SHORT DURATION	SHORT TERM STATIONARY	INTERMEDIATE TERM STATIONARY	LONG TERM STATIONARY
1				

#### GENERAL NOTES

- 1. This traffic control plan is for use on conventional roads posted at 45 mph or less and is intended for mobile operations that move continuously or intermittently (stopping up to approximately 15 minutes) such as short-line striping and in-lane rumble strips. When activities are anticipated to take longer amounts of time or traffic conditions warrant, a short duration or short-term stationary traffic control plan should be used.
- 2. A Truck Mounted Attenuator shall be used on Shadow Vehicle. Striping on the back panel of all truck mounted attenuators shall be 8" red and white reflective sheeting placed in an inverted "V" design.
  Reflective sheeting shall meet or exceed the reflectivity and color requirements of departmental material specification DMS-8300, Type A.
- 3. All traffic control devices shall be in accordance with the "Texas Manual on Uniform Traffic Control Devices" (TMUTCD), latest edition.
- 4. The use of yellow rotating beacons or strobe lights on vehicles are required. Blue high intensity rotating, flashing, oscillating or strobe lights when mounted on the drivers side of the vehicle may be operated simultaneously with the amber beacons or strobe lights.
- 5. Flashing arrow board shall be used on Shadow Vehicle. Flashing arrow board shall be Type B or Type C as per BC Standards. The arrow board operation shall be controlled from inside the truck.

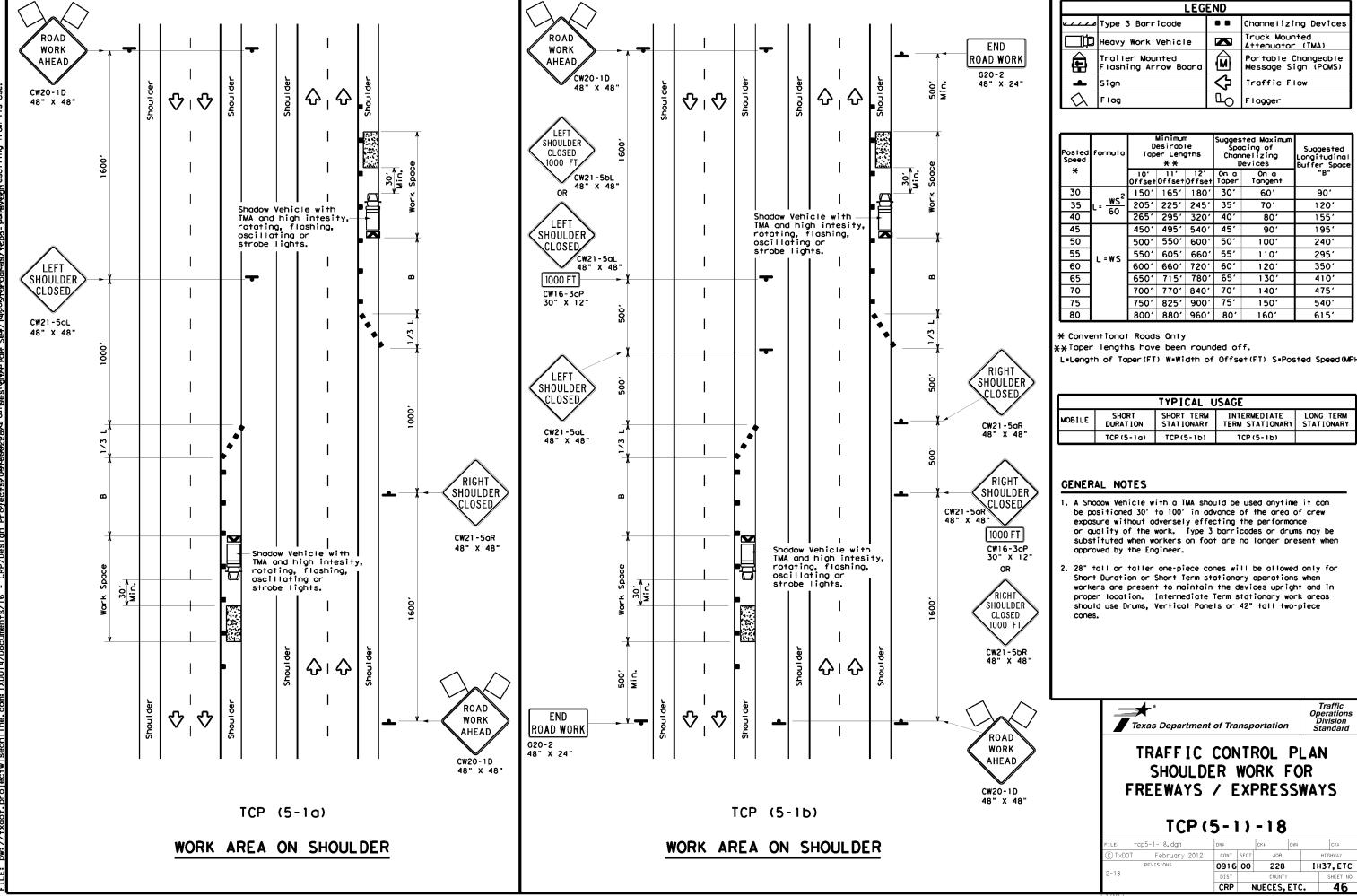




TCP (3-4) - 13

Traffic Operations Division Standard

C TxDOT July, 2013 0916 00 228 IH37, ETC CRP NUECES, ETC.



Channelizing Devices Truck Mounted Attenuator (TMA)

Portable Changeable Message Sign (PCMS)

Suggested

Longitudina Buffer Space "B"

90,

1201

1551

1951

240'

2951

3501

410'

4751

540'

615'

Traffic Operations Division Standard

IH37, ETC

Traffic Flow

Flagger

uggested Maximur Spacing of Channelizing

Devices

60'

70'

90'

100'

110'

120'

1301

1401

150'

160'

INTERMEDIATE
TERM STATIONARY

TCP (5-1b)

	LEGEND									
	Type 3 Barricade	• •	Channelizing Devices							
	Heavy Work Vehicle		Truck Mounted Attenuator (TMA)							
Ê	Trailer Mounted Flashing Arrow Board	(M	Portable Changeable Message Sign (PCMS)							
4	Sign	♦	Traffic Flow							
$\Diamond$	Flog	Ф	Flagger							
$\overline{}$			i idggei							

$\langle \lambda \rangle$	Flag				щΟ	Flagger	
Posted Speed	Formula **		Desiroble Toper Lengths "L"		Suggested Maximum Spacing of Channelizing Devices		Suggested Longitudinal Buffer Space
		10' Offset	11' Offset	12' Offset	On a Taper	On a Tangent	"В"
45		4501	4951	540′	45′	90′	1951
50		5001	550′	600,	50′	1001	240′
55	L=WS	5501	6051	660′	551	110′	295′
60	- "3	600'	6601	720′	60′	1201	350′
65		6501	7151	7801	65′	1301	410'
70		7001	770′	840'	701	140'	475′
75		750′	8251	9001	75′	150'	540′
80		800,	8801	9601	80,	1601	615′

** Taper 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					
	1	1	1						

#### GENERAL NOTES

- 1. All traffic control devices illustrated are REQUIRED. Devices denoted with the triangle symbol may be omitted when stated elsewhere in the plans.
- 2. Drums or 42"cones are the typical channelizing devices. For Intermediate Term Stationary work, drums shall be used on tapers with drums or 42" cones used on tangent sections. Other channelizing devices may be used as directed by the Engineer.

3. All construction signs and barricades placed during any phase of work shall remain in place until removal is approved by the Engineer.

- 4. The Engineer may direct the Contractor to furnish additional signs and barricades as required to maintain traffic flow, detours and motorist safety during construction.
- 5. Static message boards or changeable message signs stating the date and duration of ramp or freeway lane closures shall be placed a minimum of seven (7) calendar days in advance of the actual closure.
- 6. Phase 2 of the PCMS message should include appropriate information formatted as shown on BC(6), such as "MERGE LEFT," recommended advisory speed, delay information, or other specific warnings.
- Duplicate construction warning signs should be erected on the medians side of freeways where median width will permit and traffic volume justifies the signing.
- 8. The number of closed lanes may be increased provided the spacing of traffic control
- devices, taper lengths and tangent lengths meet the requirements of the TMUTCD. 9. Warning signs for intermediate term stationary work should be mounted at 7' to the
- bottom of the sign. 10. Warning signs shown shall be appropriately altered for left lane closures. When signs are mounted at 1' height 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 last 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, floodlights should be used to illuminate the work area and equipment crossings. Floodlights shall not produce a disabling 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.

X A shodow vehicle equipped with a Truck Mounted Attenuator is typically required. A shadow vehicle equipped with a TMA shall be used if it can be positioned 30' to 100' in advance of the area of crew exposure without adversely affecting the work performance.



# TRAFFIC CONTROL PLAN FREEWAY LANE CLOSURES

TCP(6-1)-12

LE:	top6-1.dgn	DN: T>	<dot< th=""><th>ck: TxDOT</th><th>DW:</th><th>T×DOT</th><th>ck: TxDOT</th></dot<>	ck: TxDOT	DW:	T×DOT	ck: TxDOT
TxDOT	February 1998	CONT	SECT	JOB		H	[GHWAY
3-12	REVISIONS	0916	00	228		IH3	7, ETC
-12		DIST		COUNTY			SHEET NO.
		CRP	N	IUECES, E	ETC	:.	47

	LEGEND									
	Type 3 Barricade	••	Channelizing Devices							
	Heavy Work Vehicle		Truck Mounted Attenuator (TMA)							
	Trailer Mounted Flashing Arrow Board	M	Portable Changeable Message Sign (PCMS)							
1	Sign	♦	Traffic Flow							
$\Diamond$	Flag	Ф	F lagger							

<u> </u>	_				_		
Posted Speed	ed Formula **		Spac	ed Maximum ing of elizing evices	Suggested Longitudinal Buffer Space		
		10' Offset	11' Offset	12' Offset	On a Taper	On a Tangent	"B"
45		450′	495′	540′	451	901	1951
50		500′	550′	600'	50'	100′	240′
55	L=WS	550'	605′	6601	55′	110'	2951
60		600'	660′	720′	60,	120'	350′
65		650'	715′	7801	651	130'	410'
70		700'	770′	840'	701	140'	475′
75		750′	8251	900,	75′	150'	540′
80		800'	880'	960′	801	160′	615′

** Taper 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					
	1	1	1						

## **GENERAL NOTES**

- 1. All traffic control devices illustrated are REQUIRED. Devices denoted with the triangle symbol may be omitted when stated elsewhere in the plans.
- 2. ADDED LANE Symbol (CW4-3) sign may be omitted when sign
- between ramp and mainlane can be seen from both roadways.

  3. See "Advance Notice List" on BC(6) for recommended date
- and time formatting options for PCMS Phase 2 message.
  4. The END ROAD WORK (G20-2) sign may be omitted when it conflicts with G20-2 signs already in place on the project.

*A shadow vehicle equipped with a Truck Mounted Attenuator is typically required. A shadow vehicle equipped with a TMA shall be used if it can be positioned 30' to 100' in advance of the area of crew exposure without adversely affecting the work performance.

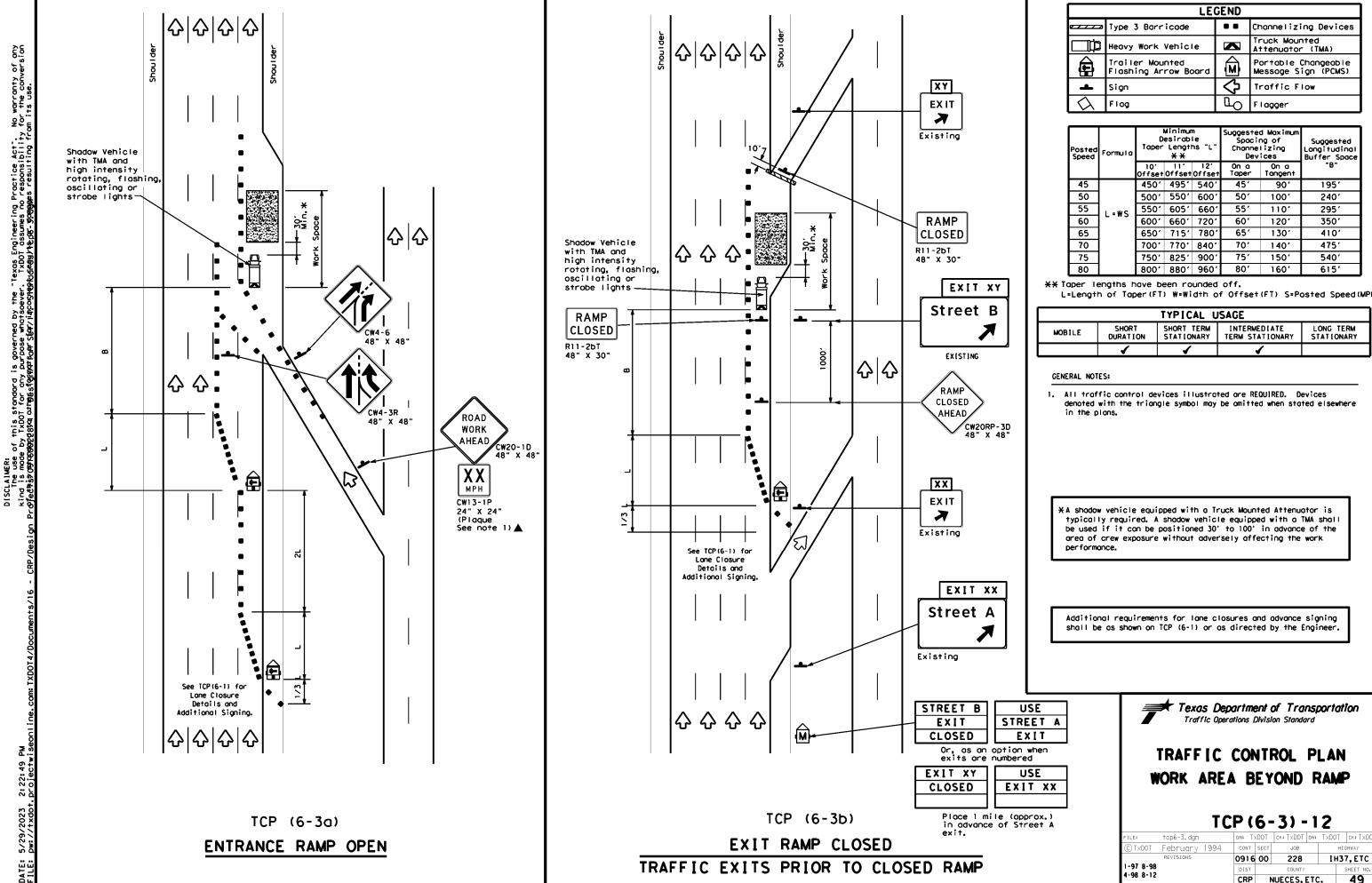
Additional requirements for lane closures and advance signing shall be as shown on TCP (6-1) or as directed by the Engineer.



# TRAFFIC CONTROL PLAN WORK AREA NEAR RAMP

TCP (6-2) -12

February 1994 0916 00 228 IH37, ETC 1-97 8-98 4-98 8-12 CRP NUECES, ETC.



$\sim$	1,100				<u> </u>	i oggei			
Posted Speed			Minimur esirab Lengtl **	le	Spacin Channe		Suggested Longitudinal Buffer Space		
		10' Offset	11' Offset	12' Offset	On a Taper	On a Tangent	"B"		
45		450′	495′	540′	45′	90′	1951		
50		500′	550′	600'	50'	100'	240′		
55	L=WS	5501	605′	6601	55′	110'	2951		
60		600'	660′	720′	60,	120'	350′		
65		6501	715′	7801	65′	130'	410′		
70		7001	770′	840′	70′	140′	475′		
75		750′	8251	900,	75′	150'	540′		
80		8001	880'	9601	80′	160'	615′		

** Taper lengths have been rounded off. L=Length of Taper (FT) W=Width of Offset (FT) S=Posted Speed (MPH)

		TYPICAL U	ISAGE	
MOBILE	SHORT DURATION	SHORT TERM STATIONARY	INTERMEDIATE TERM STATIONARY	LONG TERM STATIONARY
	1	1	1	

#### GENERAL NOTES

- 1. All traffic control devices illustrated are REQUIRED. Devices denoted with the triangle symbol may be omitted when stated elsewhere in the plans.
- 2. See BC Standards for sign details.

 $\ensuremath{\mathsf{XA}}$  shodow vehicle equipped with a Truck Mounted Attenuator is typically required. A shadow vehicle equipped with a TMA shall be used if it can be positioned 30' to 100' in advance of the area of crew exposure without adversely affecting the work

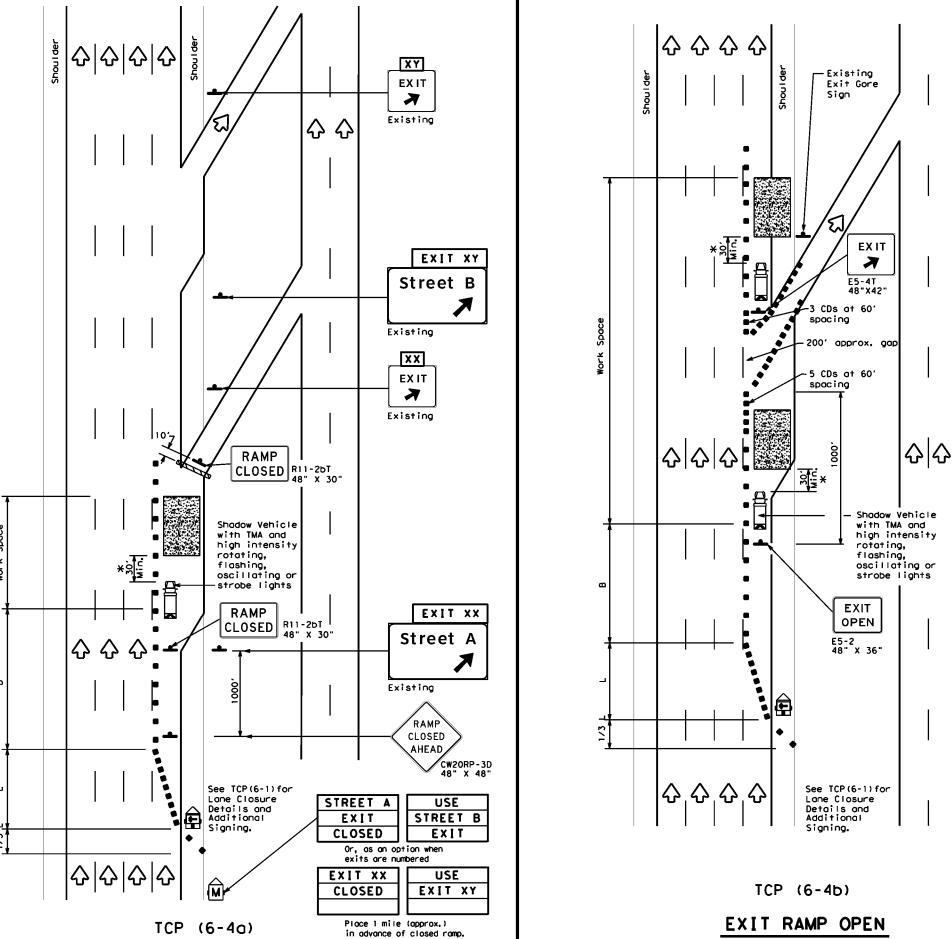
Additional requirements for lane closures and advance signing shall be as shown on TCP (6-1) or as directed by the Engineer.



# TRAFFIC CONTROL PLAN WORK AREA AT EXIT RAMP

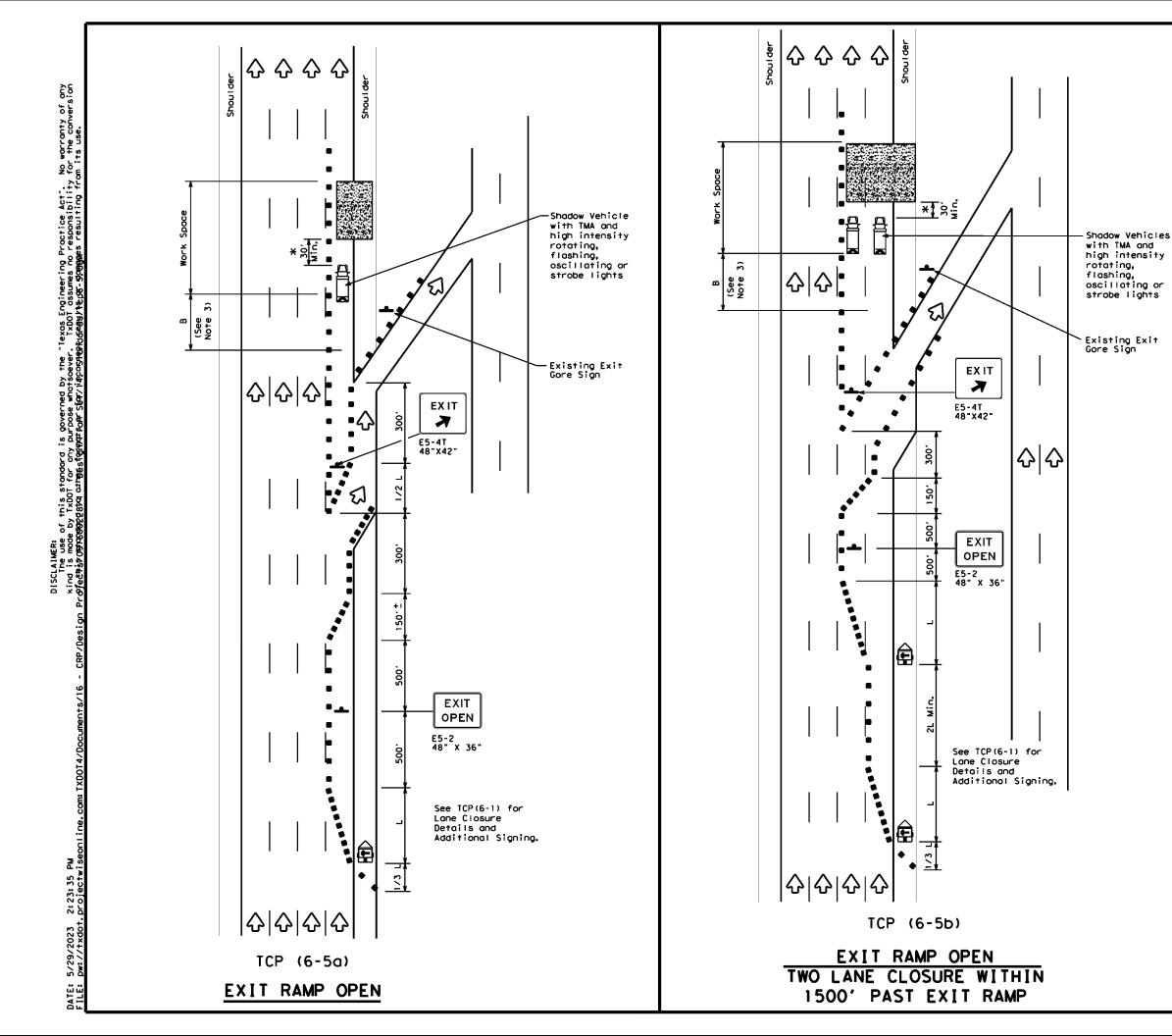
TCP (6-4) - 12

- •	- •	•		-	_	
:LE: +cp6-4.dgn	DN: T	×DOT	ck: TxDOT	DW:	T×DOT	ск: TxDOT
TXDOT Feburary 1994	CONT	SECT	JOB		HIC	SHWAY
REVISIONS	0916	00	228		IH3	7,ETC
-97 8-98	DIST		COUNTY			SHEET NO.
1-98 8-12	CRP	N	NUECES, E	ETC	:.	50



EXIT RAMP OPEN

EXIT RAMP CLOSED TRAFFIC EXITS PAST CLOSED RAMP



	LEGEND								
•	Type 3 Barricade	••	Channelizing Devices						
	Heavy Work Vehicle		Truck Mounted Attenuator (TMA)						
	Trailer Mounted Flashing Arrow Board		Portable Changeable Message Sign (PCMS)						
-	Sign	♦	Traffic Flow						
$\Diamond$	Flag	ПO	Flagger						

$\triangle$	Flag				<u> </u>	Flagger			
Posted Speed	Formula	Minimum Desirable Taper Lengths "L" ***		le	Spac	ed Maximum ing of elizing evices	Suggested Longitudinal Buffer Space		
		10' Offset	11' Offset	12' Offset	On a Taper	On a Tangent	"B"		
45		450′	495′	540'	451	90'	1951		
50		5001	550′	600,	50'	100′	240′		
55	L=WS	550′	6051	660'	55′	110'	2951		
60	- " 5	600'	660′	720'	60,	120'	3501		
65		6501	7151	780′	651	1301	410′		
70		7001	770′	840'	701	140'	475′		
75		750′	8251	9001	75′	150'	540′		
80		800'	8801	960′	801	160′	615'		

** Taper 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					
	✓	<b>√</b>	<b>√</b>						

#### GENERAL NOTES

- 1. All traffic control devices illustrated are REQUIRED. Devices denoted with the triangle symbol may be omitted when stated elsewhere in the plans.
- 2. See BC standards for sign details.
  - If adequate longitudinal buffer length "B" does not exist between the work space and the exit ramp, consideration should be given to closing

*A shadow vehicle equipped with a Truck Mounted Attenuator is typically required. A shadow vehicle equipped with a TMA shall be used if it can be positioned 30' to 100' in advance of the area of crew exposure without adversely affecting the work per formance.

Additional requirements for lane closures and advance signing shall be as shown on TCP (6-1) or as directed by the Engineer.



# TRAFFIC CONTROL PLAN WORK AREA BEYOND EXIT RAMP

TCP (6-5) -12

FILE:	file: top6-5.dgm		DN: TXDOT		DW:	T×DOT	ск: TxDOT
©TxDOT Feburary 1998		CONT	SECT JOB		HIGHWAY		
	REVISIONS	0916	00	228		IH3	7,ETC
1-97 8-9 4-98 8-1		DIST	•	COUNTY			SHEET NO.
4-98 8-1	12	CRP	N	IUECES, I	ETC		51

FOUR LANE DIVIDED ROADWAY CROSSOVERS

this standar TxDOT for

#### **GENERAL NOTES**

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 $\Diamond$ 

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➾

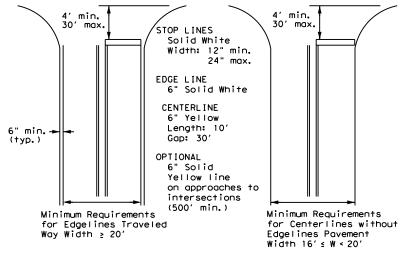
shall be as shown on the plans or as directed by the Engineer.

ف

- 1. Edge line striping shall be as shown in the plans or as directed by the Engineer. The edge line should not be placed less than 6 inches from the edge of pavement. This distance may vary due to pavement raveling or other conditions. Edge lines are not required in curb and gutter sections of roadways.
- 2. The traveled way includes only that portion of the roadway used for vehicular travel. It does not include the parking lanes, sidewalks, berms and shoulders. The traveled ways shall be measured from the center of edge line to the center of edge line of a two lane roadway.

MATERIAL SPECIFICATIONS	
PAVEMENT MARKERS (REFLECTORIZED)	DMS-4200
EPOXY AND ADHESIVES	DMS-6100
BITUMINOUS ADHESIVE FOR PAVEMENT MARKERS	DMS-6130
TRAFFIC PAINT	DMS-8200
HOT APPLIED THERMOPLASTIC	DMS-8220
PERMANENT PREFABRICATED PAVEMENT MARKINGS	DMS-8240

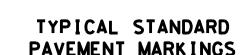
All pavement marking materials shall meet the required Departmental Material Specifications as specified by the plans.



NOTE: Traveled way is exclusive of shoulder widths. Refer to General Note 2 for additional details.

#### GUIDE FOR PLACEMENT OF STOP LINES. EDGE LINE & CENTERLINE

Based on Traveled Way and Pavement Widths for Undivided Roadways



Texas Department of Transportation

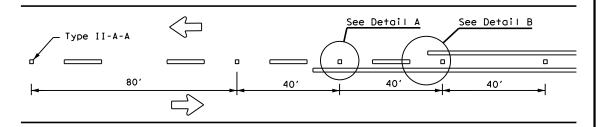
PM(1)-22

Traffic Safety Division Standard

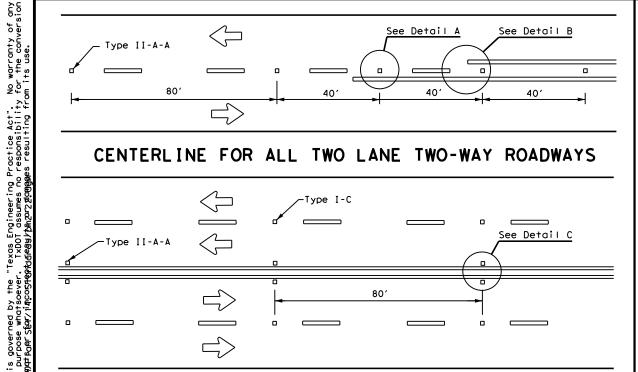
E: pm1-22.dgn	DN:		CK:	DW:	CK:
TxDOT December 2022	CONT	SECT	JOB		HIGHWAY
REVISIONS -78 8-00 6-20	0916	00	228	I	H37, ETC
95 3-03 12-22	DIST		COUNTY		SHEET NO.
00 2-12	CRP	١	NUECES,	ETC.	52

# REFLECTIVE RAISED PAVEMENT MARKERS FOR VEHICLE POSITIONING GUIDANCE

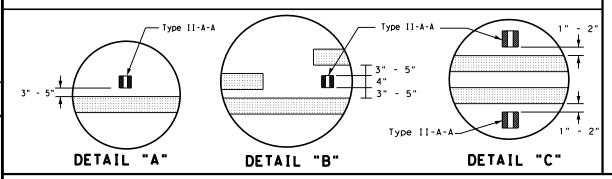
of 45 MPH or less.



#### CENTERLINE FOR ALL TWO LANE TWO-WAY ROADWAYS

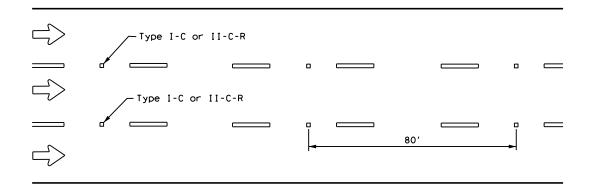


# CENTERLINE & LANE LINES FOR FOUR LANE TWO-WAY ROADWAYS



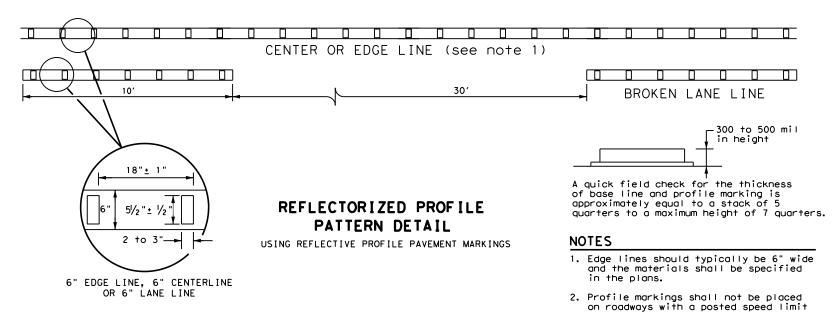
# Centerline -Symmetrical around centerline Continuous two-way left turn lane Type II-A-A 401 80' Type I-C

#### CENTERLINE AND LANE LINES FOR TWO-WAY LEFT TURN LANE



#### LANE LINES FOR ONE-WAY ROADWAY (NON-FREEWAY FACILITIES)

Raised pavement markers Type II-C-R shall have clear face toward normal traffic and red face toward wrong-way traffic. See Note 3.

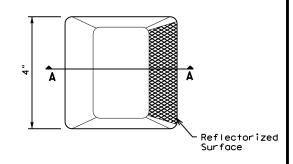


#### GENERAL NOTES

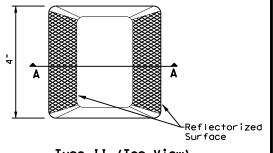
- All raised pavement markers placed along broken lines shall be placed in line with and midway between
- 2. On concrete pavements the raised pavement markers should be placed to one side of the longitudinal
- Use raised pavement marker Type I-C with undivided roadways, flush medians and two way left turn lanes. Use raised pavement marker Type II-C-R with divided highways and raised medians.

MATERIAL SPECIFICATIONS	
PAVEMENT MARKERS (REFLECTORIZED)	DMS-4200
EPOXY AND ADHESIVES	DMS-6100
BITUMINOUS ADHESIVE FOR PAVEMENT MARKERS	DMS-6130
TRAFFIC PAINT	DMS-8200
HOT APPLIED THERMOPLASTIC	DMS-8220
PERMANENT PREFABRICATED PAVEMENT MARKINGS	DMS-8240

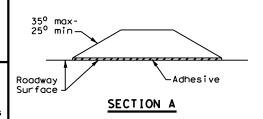
All pavement marking materials shall meet the required Departmental Material Specifications as specified by the plans.



Type I (Top View)



Type II (Top View)



# RAISED PAVEMENT MARKERS



Traffic Safety Division Standard

# POSITION GUIDANCE USING RAISED MARKERS RELECTORIZED PROFILE **MARKINGS** PM(2) - 22

FILE: pm2-22.dgn	DN:		CK:	DW:	CK:
CTxDOT December 2022	CONT	SECT	JOB		HIGHWAY
REVISIONS 4-77 8-00 6-20	0916	00	228	I	137, ETC
4-92 2-10 12-22	DIST		COUNTY		SHEET NO.
5-00 2-12	CRP	١	WECES,	ETC.	53

warranty of any the conversion

δ¢.

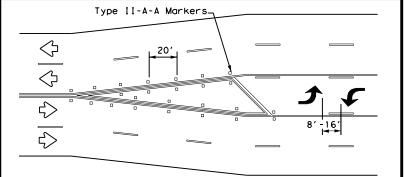
MER: use of this standard is governed mode by TXDOI for any purpose who napreo00228104 oitgesfqrputfalm SEMV

# 1. Lane reduction pavement markings are used where the number of through lanes is reduced because of narrowing of the roadway or because of a section of on-street parking in what would otherwise be a through lane. For Texas Super 2 Passing Lanes, see TS2(PL) standard sheets.

- On divided highways, an additional RIGHT LANE ENDS (W9-1R) sign may be installed in the median aligned with the W9-1R sign on the right side of the highway.
- 3. Lane reduction arrows are required for speeds of 45 mph or greater. An optional third lane reduction arrow may be added based on engineering judgement. If used, the optional third lane reduction arrow should be centered between the first and last lane reduction arrows.
- 4. For lane reductions on Freeways and Expressways, signing shall conform to the TxDOT Freeway Signing Handbook.

 $\Diamond$ 

	ED WARNING DISTANCE (	
Posted Speed	D (ft)	L (f+)
30 MPH	460	$L = \frac{WS^2}{60}$
35 MPH	565	L= WS
40 MPH	670	] "
45 MPH	775	
50 MPH	885	
55 MPH	990	
60 MPH	1,100	L=WS
65 MPH	1,200	
70 MPH	1,250	
75 MPH	1,350	



A two-way left-turn (TWLT) lane-use arrow pavement marking should be used at or just downstream from the beginning of a two-way left-turn lane within a corridor. Repeating the marking after each intersection or dedicated turn bay is not required unless stated elsewhere in the plans.

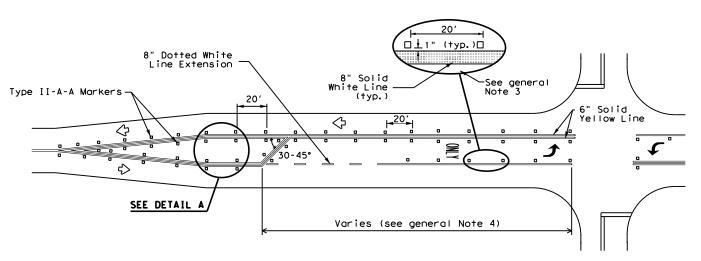
# TYPICAL TRANSITION FOR TWLTL AND DIVIDED HIGHWAY

#### GENERAL NOTES

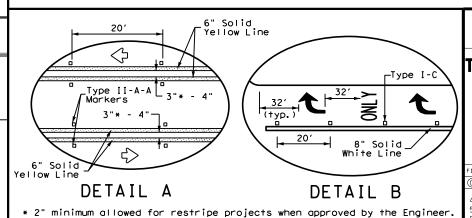
- 1. Lane use word and arrow markings shall be used where through lanes approaching an intersection become mandatory turn lanes. Lane use word and arrow markings should be used in auxiliary lanes of substantial length. Lane use arrow markings or word and arrow markings may be used in other lanes and turn bays for emphasis. Details for words and arrows are as shown in the Standard Highway Sign Designs for Texas.
- 2. When lane-use words and arrow markings are used, two sets of arrows should be used if the length of the bay is greater than 180 feet. When a single lane use arrow or word and arrow marking is used for a short turn lane, it should be located at or near the upstream end of the full-width turn lane.
- Use raised pavement marker Type I-C with undivided highways, flush medians and two way left turn lanes. Use raised pavement marker Type II-C-R with divided highways and raised medians.
- 4. Length of turn bays, including taper, deceleration, and storage lengths shall be as shown on the plans or as directed by the Engineer. See Chapter 3 of the Roadway Design Manual for additional information on turning lanes or storage lengths.

MATERIAL SPECIFICATIONS	
PAVEMENT MARKERS (REFLECTORIZED)	DMS-4200
EPOXY AND ADHESIVES	DMS-6100
BITUMINOUS ADHESIVE FOR PAVEMENT MARKERS	DMS-6130
TRAFFIC PAINT	DMS-8200
HOT APPLIED THERMOPLASTIC	DMS-8220
PERMANENT PREFABRICATED PAVEMENT MARKINGS	DMS-8240

All pavement marking materials shall meet the required Departmental Material Specifications as specified by the plans.



# TYPICAL TWO-LANE ROADWAY INTERSECTION WITH LEFT TURN BAYS

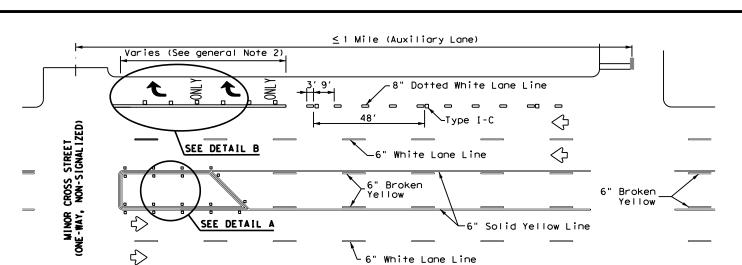




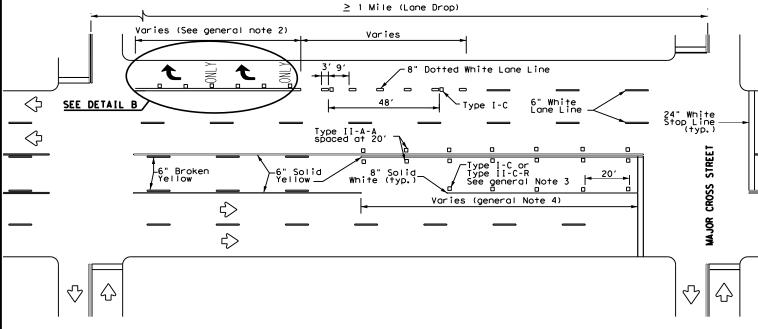
# TWO-WAY LEFT TURN LANES, RURAL LEFT TURN BAYS, AND LANE REDUCTION PAVEMENT MARKINGS PM(3)-22

Traffic Safety Division Standard

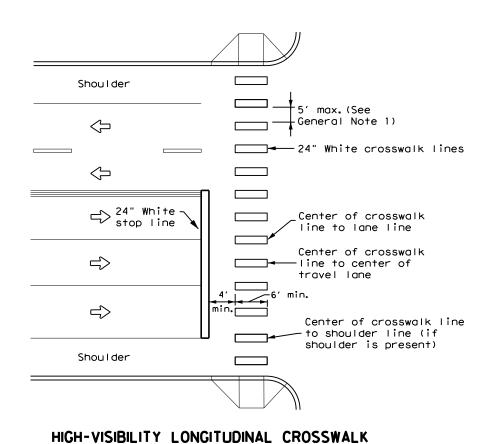
FILE: pm3-22.dgn	DN:		CK:	DW:	CK:
CTxDOT December 2022	CONT	SECT	JOB		HIGHWAY
REVISIONS 4-98 3-03 6-20	0916	00	228	I	H37,ETC
5-00 2-10 12-22	DIST		COUNTY		SHEET NO.
8-00 2-12	CRP	N	WECES,	ETC.	54
22C					



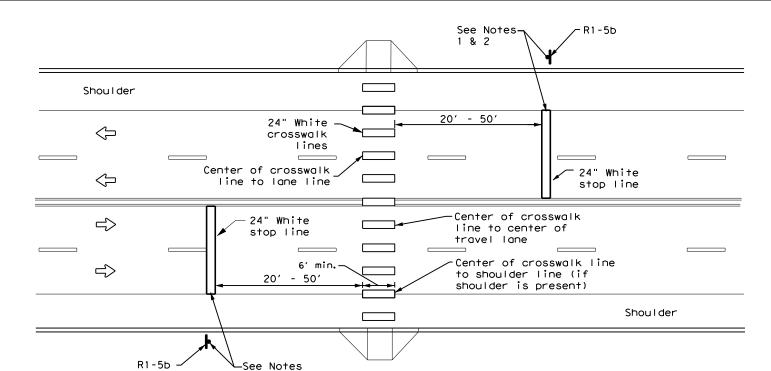
## TYPICAL TWLTL AT ONE-WAY STREET AND RIGHT TURN AUXILIARY LANE



TYPICAL TWLTL AT TWO-WAY CROSS STREET AND RIGHT TURN LANE DROP



AT CONTROLLED APPROACH



UNSIGNALIZED MIDBLOCK HIGH-VISIBILITY LONGITUDINAL CROSSWALK

1 & 2

#### GENERAL NOTES

- 1. Longitudinal crosswalk lines should not be placed in the wheel path of vehicles. Center the crosswalk lines on travel lanes. lane lines, and shoulder lines (if present).
- 2. A minimum 6" clear distance shall be provided to the curb face. If the last crosswalk line falls into this distance it must be
- 3. For divided roadways, adjustments in spacing of the crosswalk lines should be made in the median so that the crosswalk lines are maintained in their proper location across the travel portion of the roadway.
- 4. At skewed crosswalks, the crosswalk lines are to remain parallel to the lane lines.
- 5. Each crosswalk shall be a minimum of 6' wide.
- 6. The High-Visibility Longitudinal Crosswalk is the preferred crosswalk pattern on State Highways. Other crosswalk patterns as shown in the "Texas Manual on Uniform Traffic Control Devices" may be used. All crosswalk designs and dimension shall comply with the "Texas Manual on Uniform Traffic Control Devices."
- 7. Final placement of Stop Bar and Crosswalk shall be approved by the Engineer in the field.

MATERIAL SPECIFICATIONS	
PAVEMENT MARKERS (REFLECTORIZED)	DMS-4200
EPOXY AND ADHESIVES	DMS-6100
BITUMINOUS ADHESIVE FOR PAVEMENT MARKERS	DMS-6130
TRAFFIC PAINT	DMS-8200
HOT APPLIED THERMOPLASTIC	DMS-8220
PERMANENT PREFABRICATED PAVEMENT MARKINGS	DMS-8240

All pavement marking materials shall meet the required Departmental Material Specifications as specified by the plans.

#### NOTES:

- 1. Use stop bars with Stop Here For Pedestrians (R1-5b) signs at unsignalized midblock cross walks.
- 2. Use stop bars with STOP HERE ON RED (R10-6 or R10-6a) signs at mid block crosswalks controlled by traffic signals or pedestrian hybrid beacons.



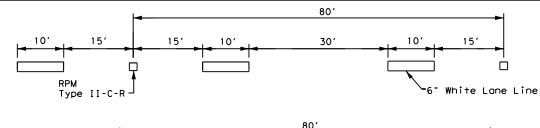
Traffic Safety Division Standard

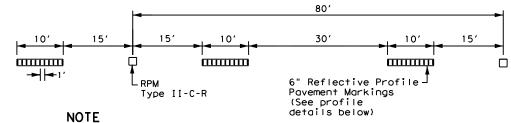
# CROSSWALK PAVEMENT MARKINGS

PM(4)-22A

DN:		CK:	DW:	CK:
CONT	SECT	JOB		HIGHWAY
0916	00	228		IH37, ETC
DIST		COUNTY		SHEET NO.
CRP	N	NUECES,	ETC.	55
	CONT 0916	CONT SECT 0916 00 DIST	CONT         SECT         JOB           0916         00         228           DIST         COUNTY	CONT SECT JOB  0916 00 228  DIST COUNTY

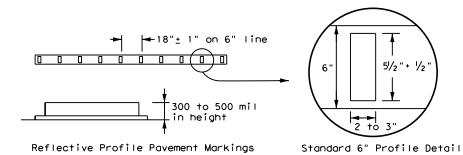






Reflectorized raised pavement markers Type II-C-R shall be spaced on 80'centers with the clear face toward normal traffic and the red face toward wrong way traffic. All raised pavement markers placed along broken lines shall be placed in line with and midway

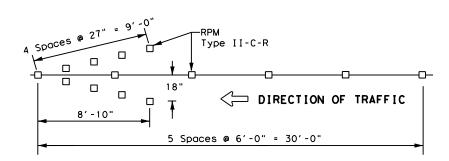
## TRAFFIC LANE LINES PAVEMENT MARKING



#### NOTE

Edge lines should typically be 6" wide and the materials shall be as specified in the plans. See details above if reflective profile pavement markings are to be used.

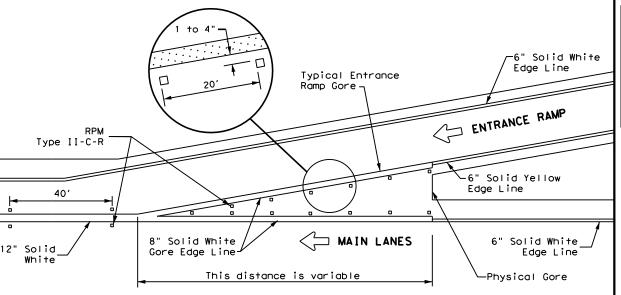
# EDGE LINE PAVEMENT MARKINGS



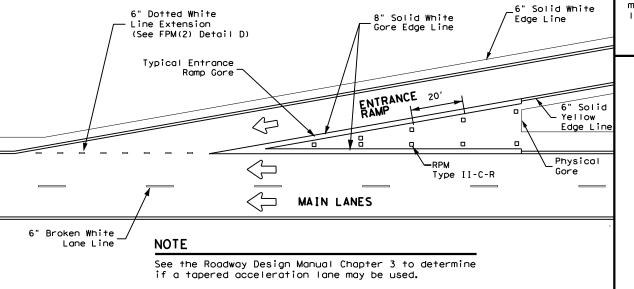
#### NOTES

- 1. Reflectorized raised pavement markers Type-II-C-R in the wrong way arrow shall have the clear face toward normal traffic and the red face toward the wrong way
- 2. Red reflectorized wrong way arrows, not to exceed two, may be placed on exit ramps. Locations of the arrows shall be as shown in the plans or as directed by the engineer.

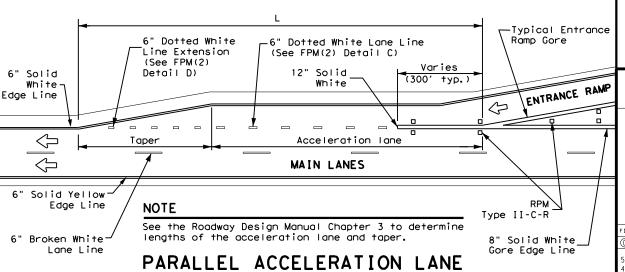
#### WRONG WAY ARROW



# TYPICAL ENTRANCE RAMP GORE MARKING

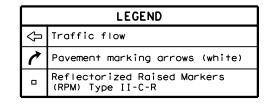


# TAPERED ACCELERATION LANE



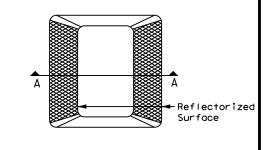
	MATERIAL SPECIFICATION	)NS
	PAVEMENT MARKERS (REFLECTORIZED)	DMS-4200
	EPOXY AND ADHESIVES	DMS-6100
_	BITUMINOUS ADHESIVE FOR PAVEMENT MARKER	RS DMS-6130
=	TRAFFIC PAINT	DMS-8200
	HOT APPLIED THERMOPLASTIC	DMS-8220
	PERMANENT PREFABRICATED PAVEMENT MARKIN	IGS DMS-8240
_		

All pavement marking materials shall meet the required Departmental Material Specifications as specified by the plans.

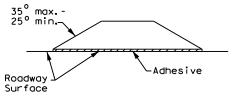


#### GENERAL NOTE

On concrete pavements the raised pavement markers shall be placed to one side of the longitudinal joints.



Type II (Top View)



SECTION A

# REFLECTORIZED RAISED PAVEMENT MARKER (RPM)



Traffic Safety Division Standard TYPICAL STANDARD

FREEWAY PAVEMENT MARKINGS WITH RAISED PAVEMENT MARKERS

FILE: fpm(1)-22.dgn	DN:		CK:	DW:	CK:
CTxDOT October 2022	CONT	SECT	JOB		HIGHWAY
REVISIONS 5-74 8-00 2-12	0916	00	228	I	137, ETC
4-92 2-08 10-22	DIST		COUNTY		SHEET NO.
5-00 2-10	CRP	N	WECES,	ETC.	56

FPM(1)-22

- 1. Pavement markings shall be white except as otherwise noted.
- 2. Length of 12" white line may vary depending on location.
- 3. Wide (12") dotted lane line (see Detail B) is used to separate a through lane that continues beyond the interchange from an adjacent mandatory exit lane.
- 4. Normal (6") dotted lane line (see Detail C) is used at parallel acceleration and deceleration lanes.
- 5. See FPM(1) for traffic lane line pavement marking details.

	LEGEND
$\theta$	Traffic flow
~	Pavement marking arrows (white)
0	Reflectorized Raised Markers (RPM) Type II-C-R
X	Arrow markings are optional, however "ONLY" is required if arrow is used

MATERIAL SPECIFICATIONS				
PAVEMENT MARKERS (REFLECTORIZED)	DMS-4200			
EPOXY AND ADHESIVES	DMS-6100			
BITUMINOUS ADHESIVE FOR PAVEMENT MARKERS	DMS-6130			
TRAFFIC PAINT	DMS-8200			
HOT APPLIED THERMOPLASTIC	DMS-8220			
PERMANENT PREFABRICATED PAVEMENT MARKINGS	DMS-8240			

All pavement marking materials shall meet the required Departmental Material Specifications as specified by the plans.

<b>*</b>	
Texas Department of Transportation	

DETAIL D

6" Dotted-

White Line Extension

TYPICAL STANDARD FREEWAY PAVEMENT MARKINGS ENTRANCE AND EXIT RAMPS

Type II-C-R-

6" Solid

-Physical Gore

 $\Diamond$ 

 $\Diamond$ 

Traffic Safety Division Standard

_6" Dotted Wnite Line Extension (See Detail D)

⊂Typical Entrance Gore

6" Solid White Edge

-6" Solid Yellow Edge Line

Taper

Shoulder or Median

Line

ENTRANCE RAMP

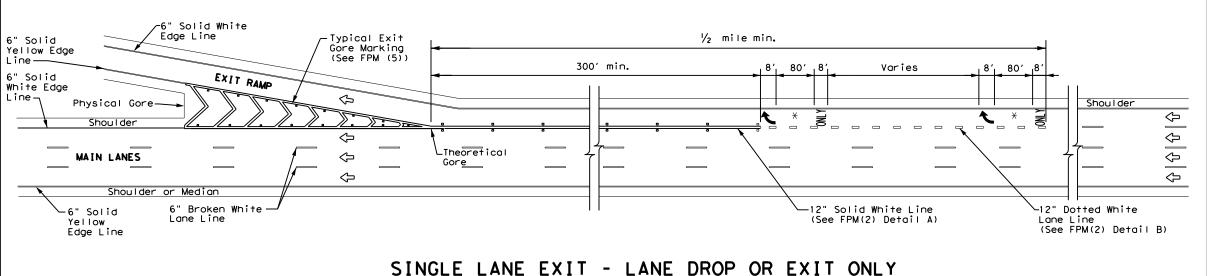
 $\Diamond$ 

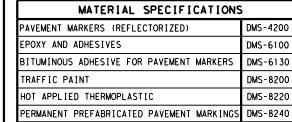
 $\triangleleft$ 

Yellow Edge

FPM(2)-22

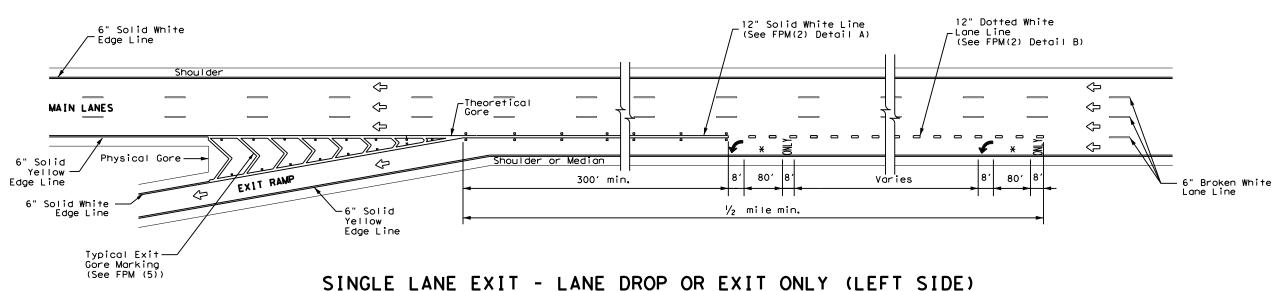
FILE: fpm(2)-22.dgn	DN:		CK:	DW:	CK:
© TxDOT October 2022	CONT	SECT	JOB		HIGHWAY
REVISIONS 2-77 5-00 2-12	0916	00	228	I	437, ETC
4-92 8-00 10-22	DIST		COUNTY		SHEET NO.
8-95 2-10	CRP	١	NUECES,	ETC.	57





All pavement marking materials shall meet the required Departmental Material Specifications as specified by the plans.

	LEGEND					
Ŷ	Traffic flow					
7	Pavement marking arrows (white)					
0	Reflectorized Raised Markers (RPM) Type II-C-R					
×	Arrow markings are optional, however "ONLY" is required if arrow is used					



6" Broken White

LANE ENDS MERGE RIGHT

W9-5TR

Lane Lines

Shou I der

 $\Diamond$ 

 $\Diamond$ 

 $\Diamond$ 

Shoulder

LEFT LANE

ENDS

1/2 MILE W9-4TL

#### NOTES

- 1. Large Guide signs shall conform to the TxDOT Freeway Signing Handbook.
- An optional third lane reduction arrow may be added based on engineering judgement. If used, the optional third lane reduction arrow should be centered between the first and last lane reduction arrows.
- Arrows and sign details can be found in the Standard Highway Sign Designs for Texas (SHSD) at http://www.txdot.gov.
- 4. These guidelines may also be applied to the design of a right side lane reduction. Use LANE ENDS MERGE LEFT (W9-5TL) and RIGHT LANE ENDS 1/2 MILE (W9-4TR) signs in lieu of what is shown on drawing.

ADVANCED WARNING SIGN DISTANCE (D)					
Posted Speed	D (f+)	L (ft)			
45 MPH	775				
50 MPH	885				
55 MPH	990				
60 MPH	1,100				
65 MPH	1,200	L=WS			
70 MPH	1,250				
75 MPH	1,350				
80 MPH	1,500				
85 MPH	1,625				

#### **GENERAL NOTES**

- 1. Pavement markings shall be white except as otherwise noted.
- 2. Length of 12" white line may vary depending on location.
- 3. Wide (12") dotted lane line (see FPM(2) Detail B) is used to separate a through lane that continues beyond the interchange from an adjacent mandatory exit lane.
- Edge lines are not required in curb and gutter sections of frontage roads.
- 5. See FPM(1) for traffic lane line pavement marking details.



TYPICAL STANDARD FREEWAY PAVEMENT MARKINGS SINGLE LANE DROP (EXIT ONLY) AND LANE REDUCTION DETAILS

Traffic Safety Division Standard

FPM(3) - 22

ILE: fpm(3)-22.dgn	DN:		CK:	DW:	CK:
DTxDOT October 2022	CONT	SECT	JOB		HIGHWAY
REVISIONS 4-92 2-10	0916	00	228	I	H37, ETC
5-00 2-12	DIST		COUNTY		SHEET NO.
8-00 10-22	CRP	N	NUECES, I	ETC.	58
17.0					

FREEWAY LANE REDUCTION

6" Solid White Edge Line

Lane-Reduction

Arrow

D/4

 $\Diamond$ 

 $\Diamond$ 

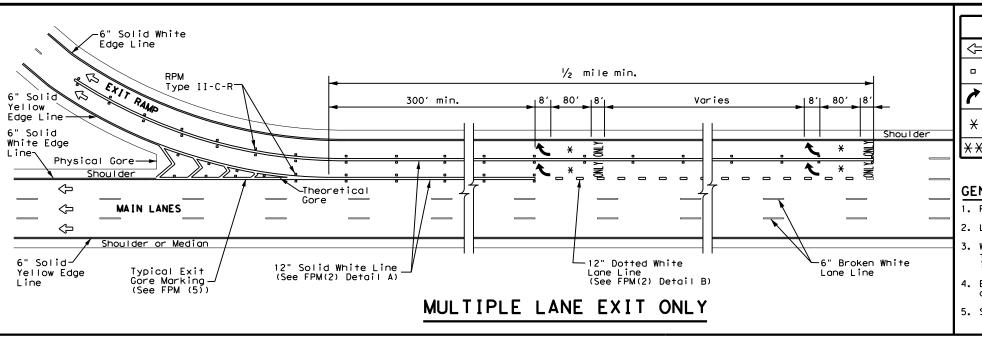
6" Solid-

Yellow Edge Line

.6" Dotted White Lane Line (See FPM(2) Detail C)

D/4

½ mile



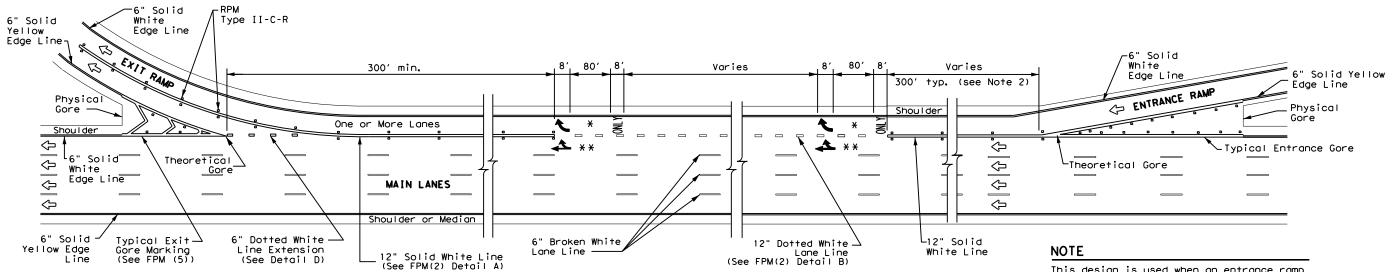
	LEGEND				
₽	Traffic Flow				
_	Reflectorized Raised Markers (RPM) Type II-C-R				
7	Pavement marking arrow (white)				
×	Arrow markings are optional, however "ONLY" is required if arrow is used				
<del>XX</del>	Arrow markings are optional				

MATERIAL SPECIFICATIONS				
PAVEMENT MARKERS (REFLECTORIZED)	DMS-4200			
EPOXY AND ADHESIVES	DMS-6100			
BITUMINOUS ADHESIVE FOR PAVEMENT MARKERS	DMS-6130			
TRAFFIC PAINT	DMS-8200			
HOT APPLIED THERMOPLASTIC	DMS-8220			
PERMANENT PREFABRICATED PAVEMENT MARKINGS	DMS-8240			

All pavement marking materials shall meet the required Departmental Material Specifications as specified by the plans.

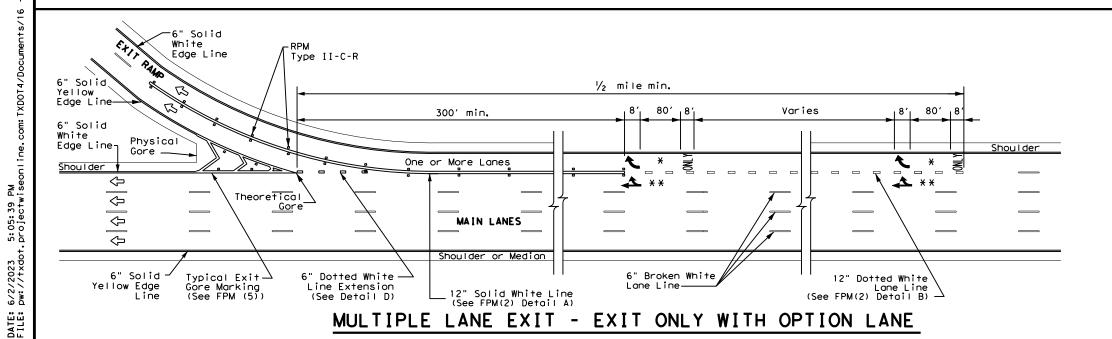
#### GENERAL NOTES

- 1. Pavement markings shall be white except as otherwise noted.
- 2. Length of 12" white line may vary depending on location.
- 3. Wide (12") dotted lane line (see FPM(2) Detail B) is used to separate a through lane that continues beyond the interchange from an adjacent mandatory exit lane.
- Edge lines are not required in curb and gutter sections of frontage roads.
- 5. See FPM(1) for traffic lane line pavement marking details.



# SINGLE LANE ENTRANCE WITH MULTIPLE LANE EXIT - EXIT ONLY WITH OPTION LANE

This design is used when an entrance ramp is followed by a dual lane exit ramp within 2400' downstream (theoretical gore to theoretical gore).





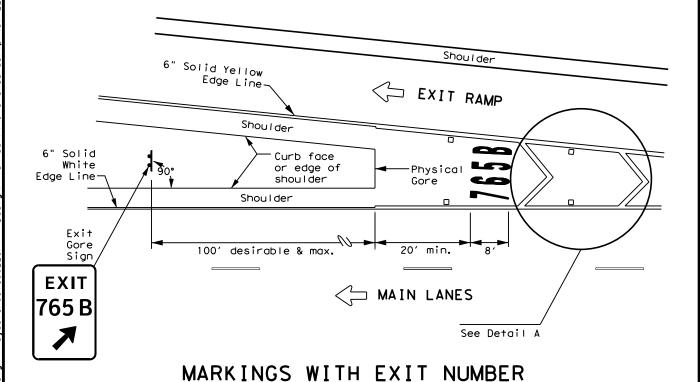
Traffic Safety Division Standard

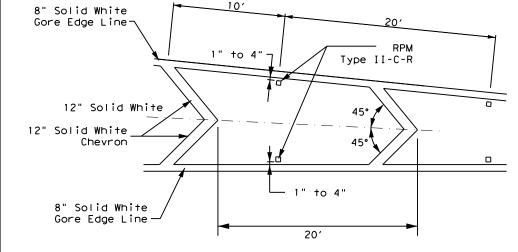
TYPICAL STANDARD FREEWAY PAVEMENT MARKINGS MULTIPLE LANE DROP (EXIT) **DETAILS** FPM(4) - 22

FILE: fpm(4)-22.dgn	DN:		CK:	DW:	CK:
CTxDOT October 2022	CONT	SECT	JOB		HIGHWAY
REVISIONS 2-77 2-10	0916	00	228	I	H37,ETC
5-00 2-12	DIST		COUNTY		SHEET NO.
8-00 10-22	CRP	١	NUECES,	ETC.	59



- Minimum 8 foot white exit number pavement markings should be used, unless otherwise noted.
- Spacing between letters and numbers should be approximately 4 inches.
- Pavement markings are to be located as specified elsewhere in the plans.
- 4. Numbers and Letters details can be found in the Standard Highway Design for Texas (SHSD) Section 12 at http://www.txdot.gov

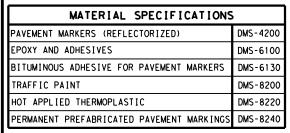




#### NOTES

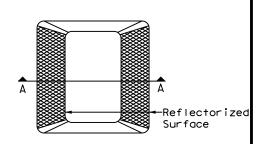
- 1. Raised pavement markers shall be centered between each chevron or neutral area line.
- 2. For more information, see Reflectorized Raised Pavement Marker Detail.

# DETAIL A

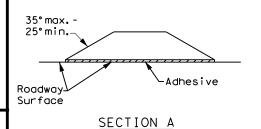


All pavement marking materials shall meet the required Departmental Material Specifications as specified by the plans.

LEGEND					
$\theta$	Traffic flow				
0	Reflectorized Raised Markers (RPM) Type II-C-R				



Type II (Top View)



REFLECTORIZED RAISED PAVEMENT MARKER (RPM)

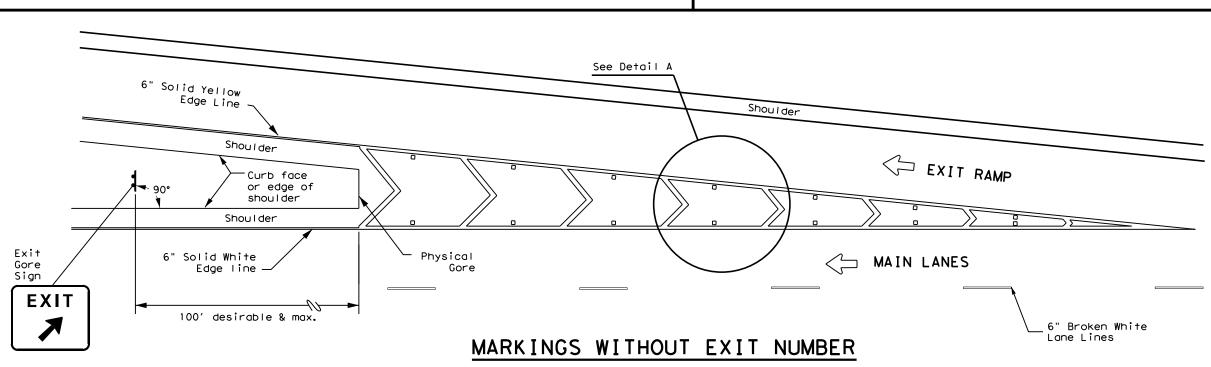


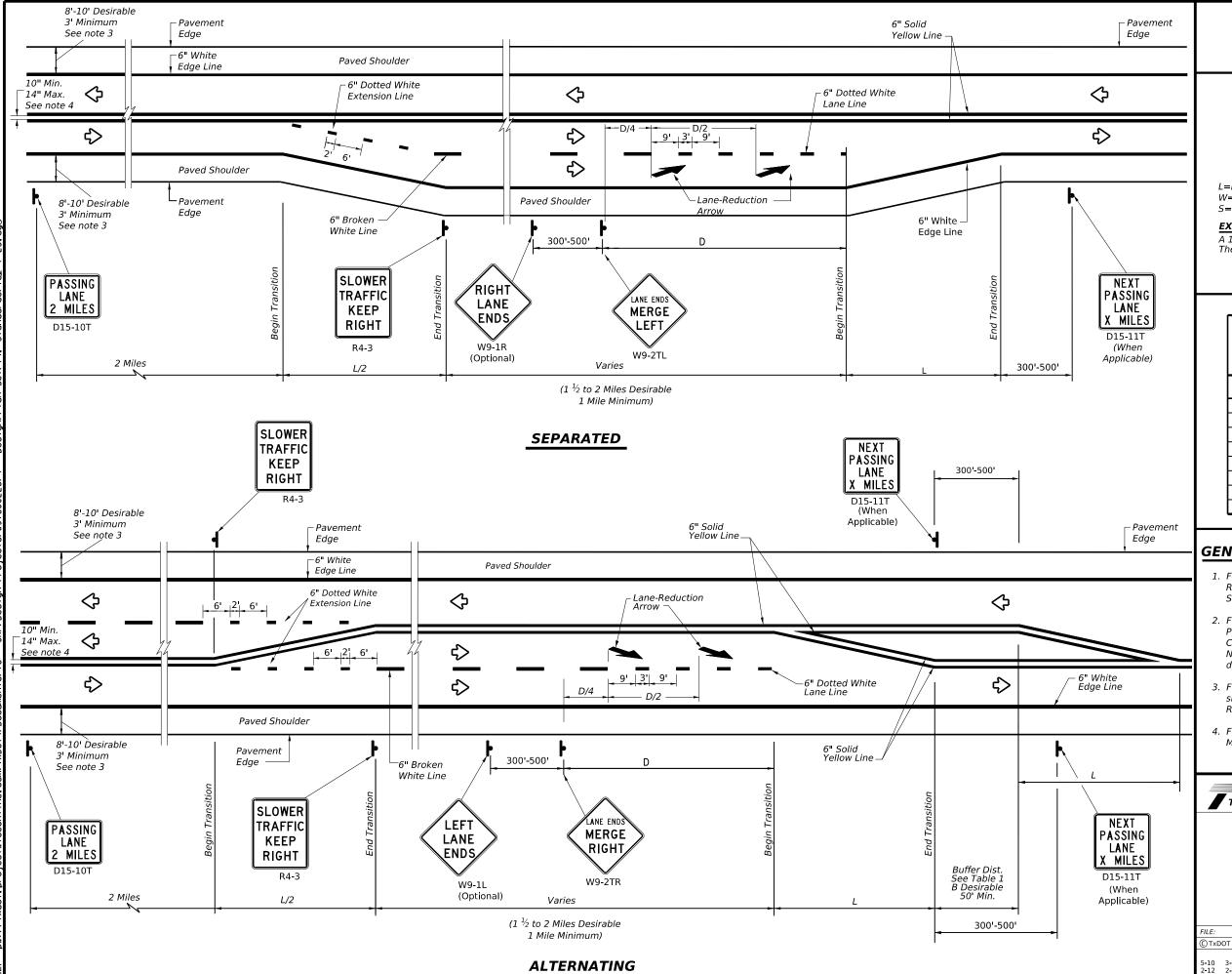
Traffic Safety Division Standard

EXIT GORE
PAVEMENT MARKINGS

FPM(5) - 22

ILE: fpm(5)-22.dgn	DN:		CK:	DW:	CK:	
TxDOT October 2022	CONT	SECT	JOB		HIGHWAY	
9-19	0916	00	228	I	H37,ETC	
10-22	DIST		COUNTY		SHEET NO.	
	CRP	١	NUECES,	ETC.	60	





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LEGEND

♣ Sign

⟨→ Traffic Flow

TYPICAL TAPER
LENGTH (L)

Formula * L = WS

* Transition length should be rounded up to nearest 5 foot increment.

L=Length of Transition (FT) W=Width of Offset (FT) S=Posted Speed (MPH)

#### **EXAMPLE**

A 12 foot lane is added on a 70 mph roadway. The length of the transition should be:

L=12x70=840 ft

#### TABLE 1 ADVANCE WARNING SIGN DISTANCE (D) AND BUFFER DISTANCE (B)

Posted Speed	D (FT)	B (FT)
40	670	305
45	775	360
50	885	425
55	990	495
60	1100	570
65	1200	645
70	1250	730
<i>75</i>	1350	820

#### **GENERAL NOTES**

- For minimum and desirable design details, see the Roadway Design Manual, Chapter 4, Section 6, Super 2 Highways.
- 2. For Raised Pavement Markers (RPM) details, see Pavement Markings Standard sheet, PM(2) -Centerline for All Two Lane Two-Way Roadways. Note that RPMs are not recommended on the 6" dotted white extension lines.
- 3. For rumble strip options available for the designed shoulder width, see Rumble Strip Standard sheet RS(2).
- 4. For pavement marking details, see Pavement Marking Standard sheet PM(1).



Traffic Safety Division Standard

# TEXAS SUPER 2 PASSING LANES

TS2(PL-1)-23

		•			-			
Ε:	ts2	-1-23.dgn	DN:		CK:	DW:		CK:
ΓxD	ОТ	February 2023	CONT	SECT	JOB		HIG	HWAY
		REVISIONS	0916	00	228		IH3	7,ETC
0 2	3-18 2-23		DIST		COUNTY			SHEET NO.
2			CRP		NUECES,	ETC.		61

No warranty of any sibility for the conversion in its use

DISCLAIMER: The use of this standard is governed kind is made by TxDOT for any purpose क्षर्ममोडन्डक्क्ववर्णक्रिक्सक्रिक्यक्ष्मिति for

LEGEND Sign ♦ Traffic Flow

TYPICAL TAPER LENGTH (L) Formula L = WS

* Transition length should be rounded up to nearest 5 foot increment.

L=Length of Transition (FT) W=Width of Offset (FT) S=Posted Speed (MPH)

A 12 foot lane is added on a 70 mph roadway. The length of the transition should be:

L=12x70=840 ft

TABL ADVANCE V SIGN DISTA	ÑĀRNING
Posted Speed	D (FT)
40	670
45	775
50	885
55	990
60	1100
65	1200
70	1250
<i>75</i>	1350

#### **GENERAL NOTES**

- 1. For minimum and desirable design details, see the Roadway Design Manual, Chapter 4, Section 6, Super 2 Highways.
- 2. For Raised Pavement Markers (RPM) details, see Pavement Markings Standard sheet, PM(2) -Centerline for All Two Lane Two-Way Roadways. Note that RPMs are not recommended on the 6" dotted white extension lines.
- 3. For rumble strip options available for the designed shoulder width, see Rumble Strip Standard sheet RS(2).
- 4. For pavement marking details, see Pavement Marking Standard sheet PM(1).

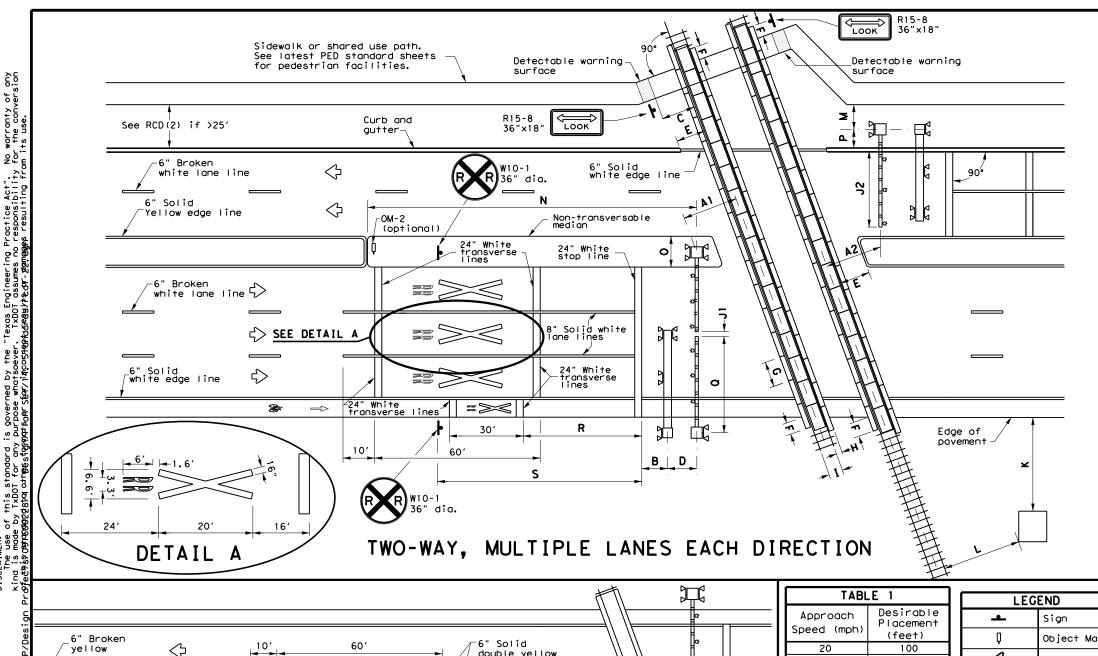


Traffic Safety Division Standard

# **TEXAS SUPER 2 PASSING LANES**

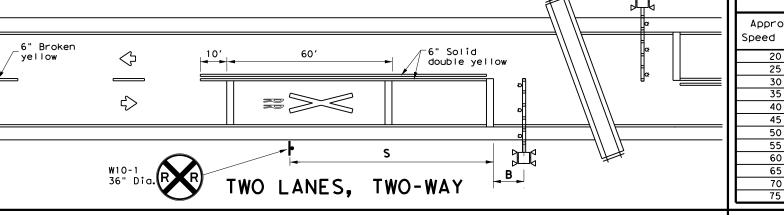
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L0 L2	3-18 2-23		DIST		COUNTY		SHEET NO.
12			CRP		NUECES,	ETC.	62



#### NOTES

- Al: Center of RR mast to center of rail: 12' minimum, 15' typical.
- A2: Tip of gate to center of rail: 12' minimum, 15' typical.
- B: Center of mast (cantilever, gate, or mast flasher) of nearest active traffic control device to stop line: 8' (NOTE: Stop line may be moved as needed, but should be at least 8' back from gates, if present).
- C: Near edge of detectable warning surface to nearest rail: 12' minimum.
- D: Center of gate most to center of cantilever most: 6' typical. NOTE: Cantilever may be located in front or behind gates.
- E: Edge of median or curb to nearest rail: 10' typical. NOTE: Design median edge to be parallel with rail.
- F: Edge of planking panel from edge of pavement or sidewalk: 3' minimum. NOTE: Field panels need not be in line with gauge panels.
- G: Length of panels along rail: 8' typical.
- H: Width of field panel: 2' typical (check with railroad company).
- I: Distance between rails: 4' 8'1/2".
- J1: Tip of gate to tip of gate: 2' maximum.
- J2: 90% of traveled roadway to be covered by gate.
- K: Nearest edge of RR cabinet from edge of pavement: 30' typical. NOTE: Cabinet not required to be parallel to edge of pavement.
- L: Nearest edge of RR cabinet from nearest rail: 25' typical.
- M: Center of RR most to edge of sidewalk: 6' minimum.
- N: Center of gate mast to leading edge of non-traversable median: 100' minimum to qualify as a Quiet Zone SSM. NOTE: 60'will suffice if there is a street intersection within the 100' and all street intersections within 60' are closed.
- O: Width of median for RR gate assembly: 8'-6" minimum, 10' typical when using median gates. NOTE: Center of gate mast minimum 4'-3" from face of curb.
- P: Center of RR mast to face of curb: 5'-3" minimum.
  Center of RR mast to edge of pavement (with shoulder): 7' minimum.
  Center of RR mast to edge of pavement (no shoulder): 9'-3" minimum.
  NOTE: Final location determined by the railroad company.
- Q: Gate length: 28' or less typical, but railroad company may allow up to 32' under special circumstances.
- R: Stop line to first RR Crossing transverse line (bike lane): 50' typical.
- S: Stop line to GRADE CROSSING ADVANCE WARNING (W10-1) sign and adjacent RR Crossing pavement markings. See Table 1. See RCD(2) for other signs.

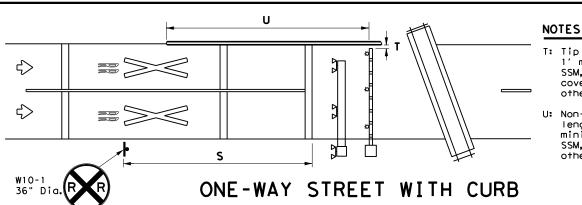


_E 1	LEG	END
Desirable Placement	•	Sign
(feet)	0	Object Marker
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100	<u> </u>	
100		Cantilever
125		Gate Assembly
1 75		oute Assembly
250	Ч	Mast Flasher
325	<b> </b>	Pair
400	•	
475		
550		
	Placement (feet) 100 100 100 100 125 175 250 325 400 475	Desirable Placement (feet)  100  100  100  100  125  175  250  325  400  475

#### GENERAL NOTES

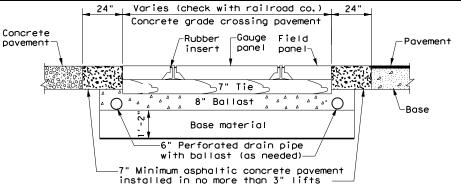
- Medians and curbs must be non-traversable to qualify as a Quiet Zone Supplementary Safety Measure (SSM).

  Non-traversable curbs in Quiet Zones are 6" tall minimum and used on roadways where speed does not exceed 40 mph.
- Raised pavement markers may be used to supplement striping. See PM(2) and PM(3) standard sheets.
- Medians preferred whenever possible to prevent vehicles from driving around gates.
- Longitudinal edge striping may be continued thru crossing as needed. Illumination may also be considered for nighttime visibility.
- 5. See SMD standard sheets for sign mounting details.
- See the Standard Highway Sign Design for Texas (SHSD) manual for sign and pavement marking details.



# T: Tip of gate to edge of curb: 1' maximum for Quiet Zone SSM, 90% of traveled way covered by gates for all other locations.

U: Non-traversable curb length from gate: 100' minimum for a Quiet Zone SSM, 10' minimum for all other locations.

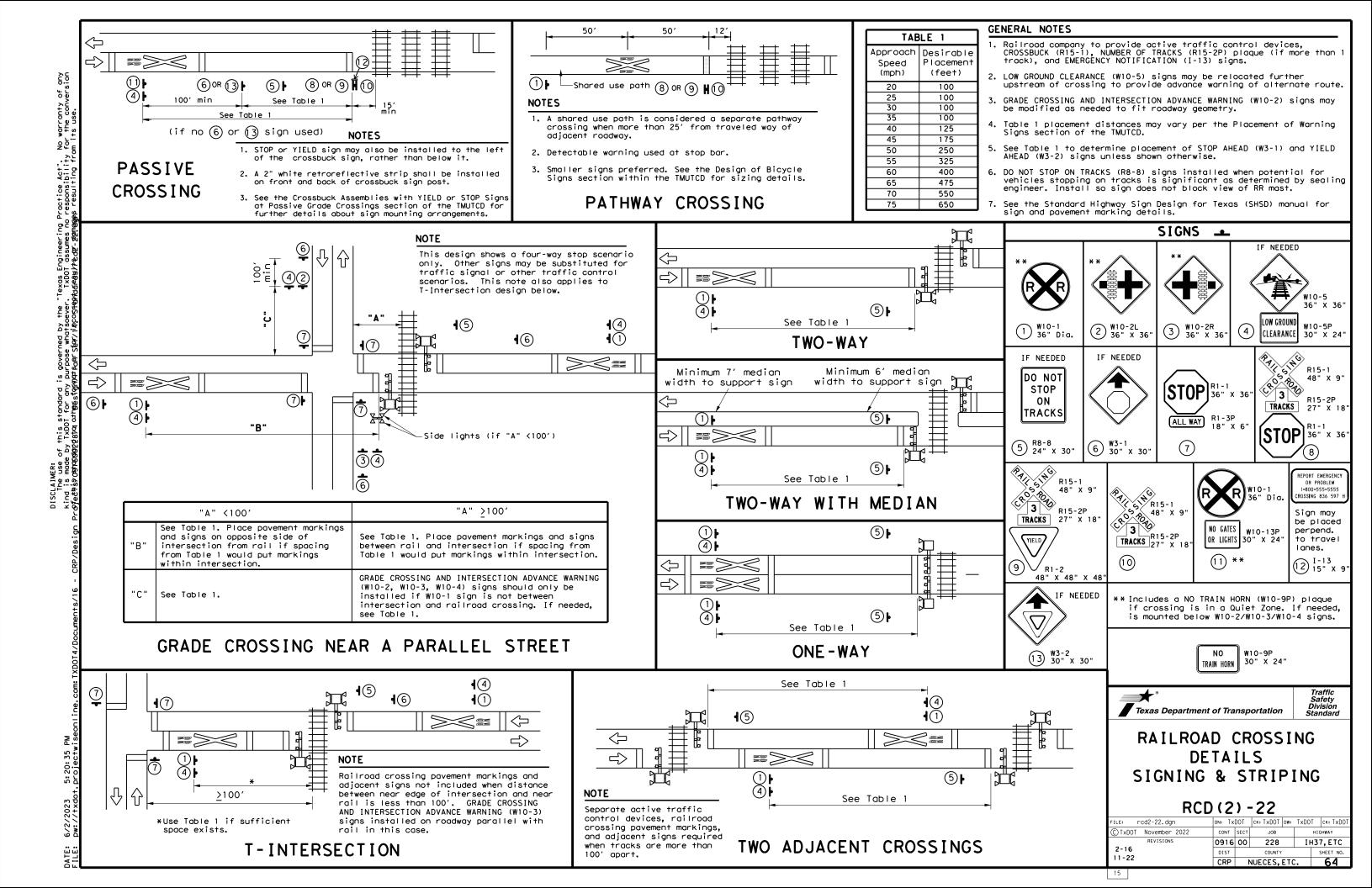


CROSSING SURFACE CROSS SECTION

Texas Department of Transportation

RAILROAD CROSSING
DETAILS
SIGNING, STRIPING, AND
DEVICE PLACEMENT
RCD(1)-22

Traffic Safety Division Standard



actice Act". No warranty of any s no responsibility for the converesulting from its use.

#### GENERAL NOTES

- 1. This standard sheet provides guidelines for installing centerline rumble strips on multilane undivided highways.
- 2. Centerline and edge line rumble strips or profile markings shall not be placedon roadways with a posted speed limit of 45 MPH or less.
- Milled rumble strips are preferred when adequate pavement depth is available. If pavement thickness is less than 2 inches, milled rumble strips shall not be used. Rumble strips shall not be milled or depressed into bridge decks.
- 4. See dimensions for milled rumble strips. Other shapes and dimensions may beused if approved by the Traffic Safety Division.
- Breaks in milled centerline rumble strips shall occur at least 50 feet and nomore than 150 feet in advance of bridges, railroad crossing, intersections ordriveways with high usage of large trucks.
- Use standard sheet PM(2) for positioning, dimensioning, and spacing of all reflective raised pavement markers, pavement markings and profile markings.
- Consideration should be given to noise levels when centerline rumble strips are to be installed near residential areas, schools, churches, etc. A 3/8 inch deep (minimum) milled rumble strip may be considered in these areas.
- 8. Pavement markings must be applied over milled centerline rumble strips for normal centerline spacing. For wider medians, specify in the plans the exact placement of the rumble strips. Place the rumble strips under each centerline marking or centered in the middle of the median.

#### WHEN INSTALLING CENTERLINE RUMBLE STRIPS:

- Raised rumble strips consisting of non-reflective raised traffic buttons may be used. Non-reflective raised traffic buttons can be affixed to asphalt or concrete with bitumen or adhesives, as per manufacturer's recommendations.
- 10. When using non-reflective raised traffic buttons as a centerline rumble strip, the button shall be placed adjacent to the pavement marking delineating the centerline. The color of the button should be yellow for a continuous no passing roadway. The button will be paid for under Item 672, "Raised Pavement Markers." Non-reflective traffic buttons must meet the requirements of DMS-4300.
- 11. Consideration shall be given to bicyclists. See RS(6).

# WHEN INSTALLING EDGE LINE RUMBLE STRIPS WITH OR WITHOUT CENTERLINE RUMBLE STRIPS ON UNDIVIDED HIGHWAYS:

12. See standard sheet RS(2).

Texas Department of Transportation

Traffic Safety Division Standard

CENTERLINE RUMBLE STRIPS ON MULTILANE UNDIVIDED HIGHWAYS RS(3)-23

actice Act". No warranty of any so responsibility for the conver esulting from its use.

#### GENERAL NOTES

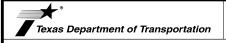
- 1. This standard sheet provides guidelines for installing centerline rumble strips on two-lane highways with or without shoulders.
- 2. Centerline and edge line rumble strips or profile markings shall not be placed on roadways with a posted speed limit of 45 MPH or less.
- 3. Milled rumble strips are preferred when adequate pavement depth is available. If pavement thickness is less than 2 inches, milled rumble strips shall not be used. Rumble strips shall not be milled or depressed into bridge decks.
- 4. See dimensions for milled rumble strips. Other shapes and dimensions may be used if approved by the Traffic Safety Division.
- 5. Breaks in milled centerline rumble strips shall occur at least 50 feet and no more than 150 feet in advance of bridges, railroad crossings, intersections or driveways with high usage of large trucks.
- Use standard sheet PM(2) for positioning, dimensioning, and spacing of all reflective raised pavement markers, pavement markings and profile markings.
- Consideration should be given to noise levels when centerline rumble strips are to be installed near residential areas, schools, churches, etc. A 3/8 inch deep (minimum) milled rumble strip may be considered in these areas.
- 8. Pavement markings must be applied over milled centerline rumble strips.

#### WHEN INSTALLING CENTERLINE RUMBLE STRIPS:

- Raised rumble strips consisting of non-reflective raised traffic buttons may be used. Non-reflective raised traffic buttons can be affixed to asphalt or concrete with bitumen or adhesives, as per manufacturer's recommendations.
- 10. When using non-reflective raised traffic buttons as a centerline rumble strip, the button shall be placed adjacent to the pavement marking delineating the centerline. The buttons will be paid for under Item 672, "Raised Pavement Markers." Non-reflective traffic buttons must meet the requirements of DMS-4300.
- 11. The color of the button should be yellow for a continuous no passing roadway. Black buttons should be used in areas where passing is allowed.
- 12. Consideration shall be given to bicyclists. See RS(6).

# WHEN INSTALLING EDGE LINE RUMBLE STRIPS WITH OR WITHOUT CENTERLINE RUMBLE STRIPS ON UNDIVIDED HIGHWAYS:

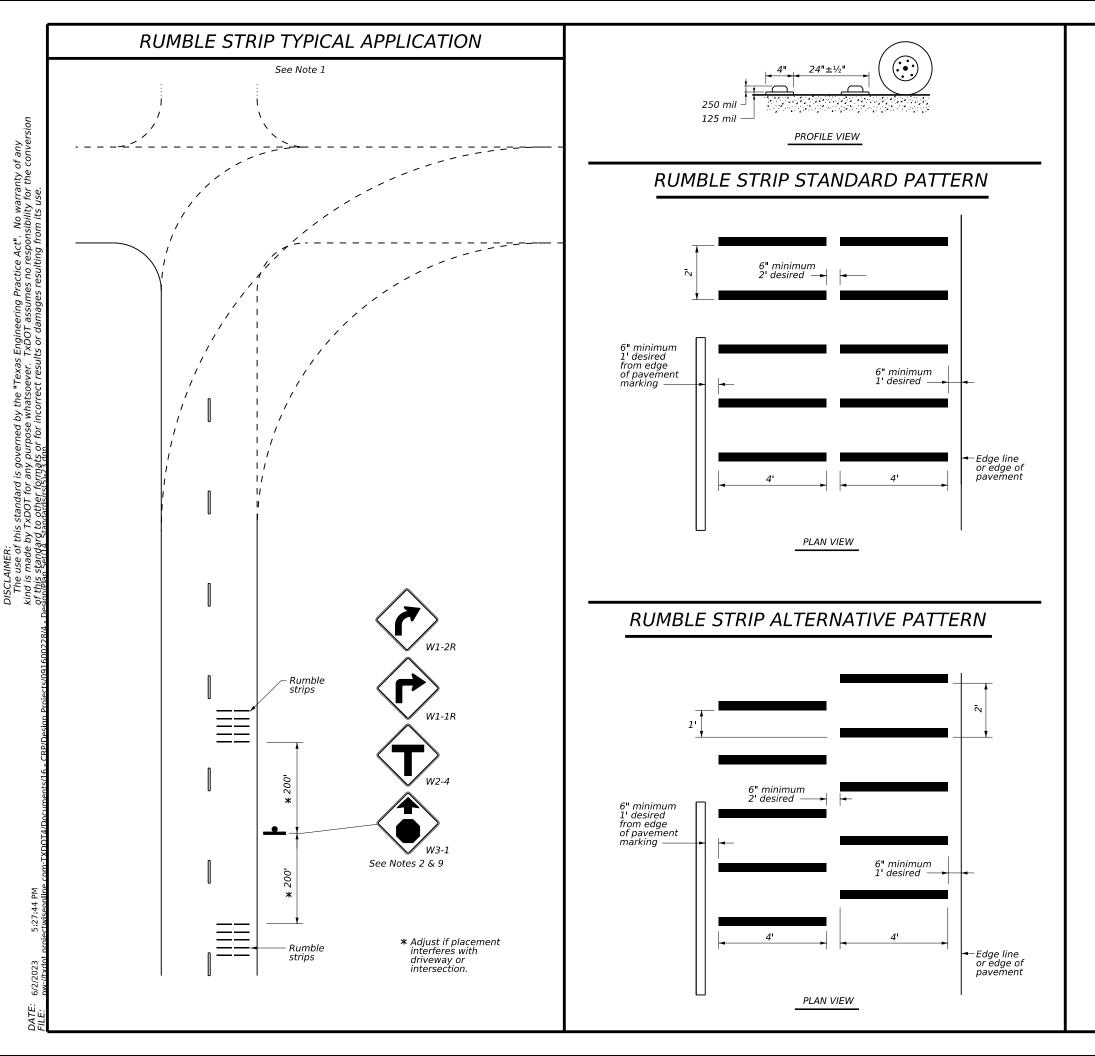
13. See standard sheet RS(2).



Traffic Safety Division Standard

CENTERLINE RUMBLE STRIPS ON TWO LANE TWO-WAY HIGHWAYS RS(4)-23

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#### **GENERAL NOTES**

- Transverse or in-lane rumble strips should only be used at high incident and special geometric locations. These special geometric locations may include: approaches to rural, high speed signalized or stop-controlled intersections with sight restrictions and/or high crash rates, approaches to unexpected urban intersections, approaches to newly installed stop or signalized controlled intersections, approaches to toll plazas, approaches to hazardous horizontal curves, and approaches to railroad grade crossings.
- 2. When used, the rumble strips shall be placed 200 feet upstream and downstream of the warning sign.
- 3. The use of rumble strips should not be widespread or indiscriminate.
- 4. Preformed black raised rumble strips should be used. They should be installed in accordance with the manufacturer's recommendations.
- 5. Please reference the TxDOT Material Producers List for approved rumble strips (transverse): http://www.txdot.gov/
- 6. Consideration should be given to noise levels when in-lane or transverse rumble strips are to be installed near residential areas, schools, churches, etc.
- 7. The RUMBLE STRIPS AHEAD (W17-2T) sign may be used in advance of in-lane or transverse rumble strips, based on engineering judgement. This sign is typically not necessary for rumble strip installations built to the guidelines on this standard sheet. When used, this sign should be spaced in advance of the rumble strips based on the Guidelines for Advance Placement of Warning Signs table of the Texas Manual on Uniform Traffic Control Devices.



- 8. Consideration shall be given to bicyclists. See RS(6).
- 9. Other signs can be used as conditions warrant.



Traffic Safety Division Standard

TRANSVERSE OR IN-LANE RUMBLE STRIPS

RS(5)-23

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10-13	CRP		NUECES,E	TC.		67

Best Management Practices:

Sedimentation

☐ Triangular Filter Dike

Erosion Control Compost

☐ Compost Filter Berm and Socks ☐ Compost Filter Berm and Socks ☐ Vegetation Lined Ditches

■ Mulch Filter Berm and Socks ■ Mulch Filter Berm and Socks ■ Compost Filter Berm and Socks

Stone Outlet Sediment Traps Sand Filter Systems

₩et Basin

Grassy Swales

Mulch Filter Berm and Socks

Silt Fence

Rock Berm

Sand Bag Berm

Brush Berms

Straw Bale Dike

Sediment Bosins

Erosion

Mulch

☐ Sodding

☐ Temporary Vegetation

☐ Blankets/Matting

☐ Interceptor Swale

Erosion Control Compost

Diversion Dike

# Post-Construction TSS ☐ Vegetative Filter Strips Retention/Irrigation Systems Extended Detention Basin Constructed Wetlands Erosion Control Compost

#### III. CULTURAL RESOURCES

Refer to TxDOT Standard Specifications in the event historical issues or archeological artifacts are found during construction. Upon discovery of archeological artifacts (bones, burnt rock, flint, pottery, etc.) cease work in the immediate area and contact the Engineer immediately.

Required Action No Action Required

#### IV. VEGETATION RESOURCES

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

Required Action No Action Required

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

Required Action ☐ No Action Required

Action No.

- 1. The Federal Migratory Bird Treaty Act (MBTA) states that it is unlawfu to persue, hunt, take, kill, capture, collect, possess, buy, sell, trade, or transport any migratory bird, nest, young, feather, or egg i part or in whole, without a federal permit; therefore, in accordance with this regulation, the Contractor will avoid disturbing, destroying, removing, or relocating migratory birds and active nests found in trees, culverts, bridges, on the ground, etc. Typical breeding season occurs from March through August; therefore, tree trimming and other vegitation clearing activities that may disturb breeding birds should be done in the non-breeding season (September-February), when possible If work must be performed during the breeding season, the Contractor shall have a qualified biologist conduct a survey of the right of way to determine if bird nests are present. In the event that active nests are encountered on-site during construction, the Contractor shall notify the Engineer and measures shall be taken to avoid disturbance o these birds, their occupied nest, eggs, and/or young, in accordance with the MBTA. Phasing of work during construction may be necessary to stay in compliance with the MBTA. The Contractor can discuss other preventative measures with the Project Engineer and/or District Environmental Staff.
- 2. Prior to construction, perform daytime surveys for nests including under bridges and in culverts to determine if they are active before removal. Nests that are active should not be disturbed. Do not disturb, destroy, or remove active nests, including ground nesting birds, during the nesting season. Avoid the removal of unoccupied, inactive nests, as practicable. Prevent the establishment of active nests during the nesting season on TxDOT owned and operated facilities and structures proposed for replacement or repair. Do not collect, capture, relocate, or transport birds, eggs, young, or active nests without a permit.

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

	F121 OF ABBRI	VIAIL	<u>UNS</u>
BMP:	Best Management Practice	SPCC:	Spill Prevention Control and C
CGP:	Construction General Permit	SW3P:	Starm Water Pollution Preventi
DSHS:	Texas Department of State Health Services	PCN:	Pre-Construction Notification
FHWA:	Federal Highway Administration	PSL:	Project Specific Location
MOA:	Memorandum of Agreement	TCEQ:	Texas Commission on Environmen
MOU:	Memorandum of Understanding	TPDES:	Texas Pollutant Discharge Elim
MS4:	Municipal Separate Stormwater Sewer System	TPWD:	Texas Parks and Wildlife Depar
MBTA:	Migrotory Bird Treaty Act	TxDOT:	Texas Department of Transporto
NOT:	Notice of Termination	T&E:	Threatened and Endangered Spec
NWP:	Nationwide Permit	USACE:	U.S. Army Corps of Engineers
NOI:	Notice of Intent	USFWS:	U.S. Fish and Wildlife Service

oill Prevention Control and Countermeasure tarm Water Pollution Prevention Plan re-Construction Notification roject Specific Location exas Commission on Environmental Quality exas Pollutant Discharge Elimination System exas Parks and Wildlife Department exas Department of Transportation reatened and Endangered Species

#### VI. HAZARDOUS MATERIALS OR CONTAMINATION ISSUES

General (applies to all projects):

Comply with the Hazard Communication Act (the Act) for personnel who will be working with hazardous materials by conducting safety meetings prior to beginning construction and making workers aware of potential hazards in the workplace. Ensure that all workers are provided with personal protective equipment appropriate for any hazardous materials used. Obtain and keep on-site Material Safety Data Sheets (MSDS) for all hazardous products used on the project, which may include, but are not limited to the following categories: Paints, acids, solvents, asphalt products, chemical additives, fuels and concrete curing compounds or additives. Provide protected storage, off bare ground and covered, for products which may be hazardous. Maintain product labelling as required by the Act. Maintain an adequate supply of on-site spill response materials, as indicated in the MSDS. In the event of a spill, take actions to mitigate the spill as indicated in the MSDS, in accordance with safe work practices, and contact the District Spill Coordinator immediately. The Contractor shall be responsible for the proper containment and cleanup of all product spills.

Contact the Engineer if any of the following are detected:

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

Does the project involve any bridge class structure rehabilitation or replacements (bridge class structures not including box culverts)?

Yes

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

If "Yes", then  $\mathsf{TxDOT}$  is responsible for completing asbestos assessment/inspection.

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

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

If "No", then TxDOT is sti∣l required to notify DSHS 15 working days prior to any

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

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

No Action Required	Required Action
Action No.	
1.	

#### VII. OTHER ENVIRONMENTAL ISSUES

(includes regional issues such as Edwards Aquifer District, etc.)

No Action Required

Required Action



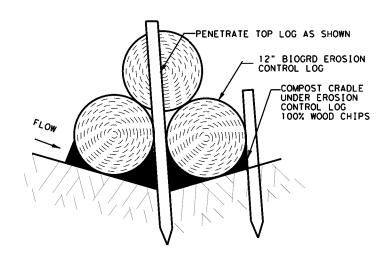
# ENVIRONMENTAL PERMITS. ISSUES AND COMMITMENTS

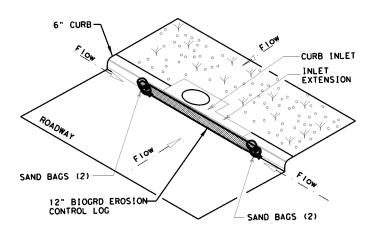
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© TxDOT: February 2015	CONT	SECT	JOB		H	HIGHWAY
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05-07-14 ADDED NOTE SECTION IV.	DIST		COUNTY			SHEET NO.
01-23-2015 SECTION I (CHANGED ITEM 1122 TO ITEM 506, ADDED GRASSY SWALES.	CRP	N	UECES, E	ETC.		68

COMPOST CRADLE CONTROL LOG 0 О 0 0 0 12" BIOGRD EROSION CONTROL LOG

DITCH LINE SEDIMENT TRAP





SECTION A-A

# DITCH LINE SEDIMENT TRAP A-A

# **CURB INLET SEDIMENT TRAP**

#### SEDIMENT TRAP USAGE GUIDELINES

A sediment trap may be used to precipitate sediment out of runoff draining from an unstabilized area.

Traps: The drainage area for a sediment trap should not exceed 5 acres. The trap capacity should be 1,800 CF/Acre (0.5" over the drainage area).

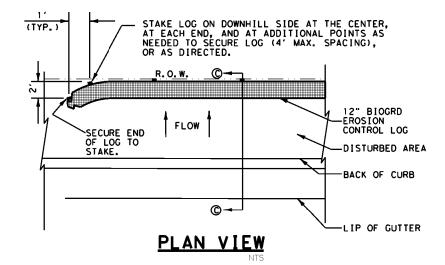
Sediment traps should be placed in the following

- locations:

  1. Immediately preceding drain inlets
  2. Just before the drainage enters a water course
  3. Just before the drainage leaves the Right Of Way
  4. Just before the drainage leaves the construction limits where drainage flows away from the project

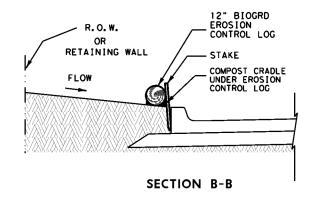
The trap should be cleaned when the capacity has been reduced by half or the sediment has accumulated to a depth of 1', whichever is less. Cleaning and removal of accumulated sediment deposits is incidental and will not be paid for separately.

# STAKE LOG ON DOWNHILL SIDE AT THE CENTER, AT EACH END, AND AT ADDITIONAL POINTS AS NEEDED TO SECURE LOG (4' MAX. SPACING), SECURE END OF LOG TO STAKE. OR AS DIRECTED. DISTURBED AREA BACK OF CURB LIP OF GUTTER 12" BIOGRD EROSION CONTROL LOG PLAN VIEW

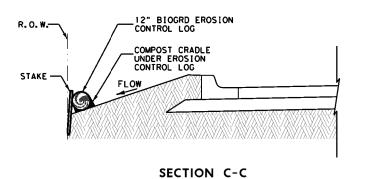


#### GENERAL NOTES

- 1. LENGTHS OF EROSION CONTROL LOGS SHALL BE IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS AND AS REQUIRED FOR THE PURPOSE INTENDED. MAXIMUM LENGTH OF LOGS SHALL BE 60' FOR 18" DIAMETER OR 30' FOR 12" DIAMETER LOGS.
- 2. UNLESS OTHERWISE DIRECTED, USE BIODEGRADABLE OR PHOTODEGRADABLE CONTAINMENT MESH ONLY WHERE LOG WILL REMAIN IN PLACE AS PART OF A VEGETATIVE SYSTEM. FOR TEMPORARY INSTALLATIONS, USE RECYCLABLE CONTAINMENT MESH.
- 3. STUFF LOGS WITH SUFFICIENT FILTER MATERIAL TO ACHIEVE DENSITY THAT WILL HOLD SHAPE WITHOUT EXCESSIVE DEFORMATION.
- 4. STAKES SHALL BE 2" x 2" WOOD OR #3 REBAR, 4' LONG, EMBEDDED SUCH THAT 2" PROTRUDES ABOVE LOG, OR AS DIRECTED.
- 5. COMPOST CRADLE MATERIAL IS INCIDENTAL AND WILL NOT BE PAID FOR SEPARATELY.
- 6. SANDBAGS SHALL BE SUBSIDIARY TO ITEM 506 BIODEGRADABLE EROSION CONTROL LOGS.



BACK OF CURB SEDIMENT TRAP



RIGHT-OF-WAY SEDIMENT TRAP

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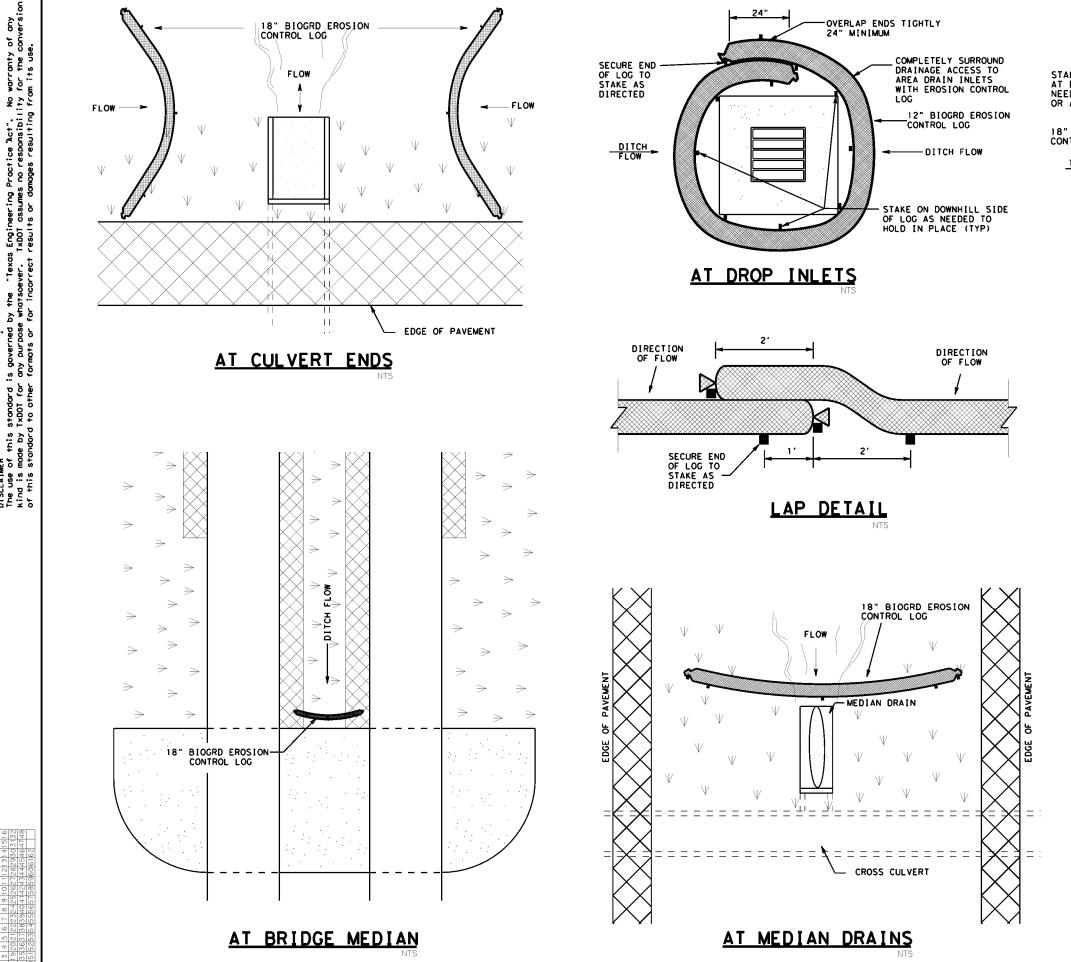
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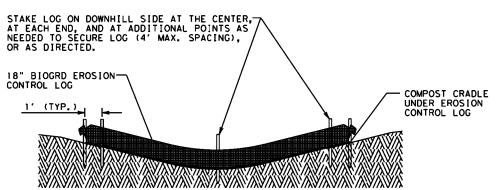
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	NUEC	ES.ET	C.0916	00	228	3	IH37.ETC

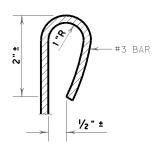




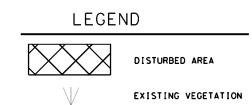




# **EROSION CONTROL LOG ELEVATION**



# REBAR STAKE DETAIL



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# BIODEGRADABLE EROSION **CONTROL LOGS**

CRP-BECL

ORPUS CHRISTI D	ISTR	ICT :	STAN	DARD		SH	EET :	2 OF 2
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IG DATE: MAY 2008	DIS	ST FED	REG	STA	TE PRO	JECT	0	SHEET
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		COUNT	Υ	CONTROL	SECT	JOB		HIGHWAY
	NILL	ECEC	ETC	0016	00	220	т	US7 ETC

	ect is adjacent or parallel work, not within RR ROW:
DOT No.: 7	De: At Grade on BS 35L (closed)
	y Operating Track at Crossing: Union Pacific Railroad Company y Owning Track at Crossing: Union Pacific Railroad Company
RR MP: 29.	
· · · · · · · · · · · · · · · · · · ·	ion: Kosmos Ind Ld
City: Aransa	
County: Ara	
	Crossing: _0916-00-228
	ork, including any TCP, to be performed by State Contractor:
Scope of w	ork, including any for, to be performed by State Contractor.
(closed) wi One lane, t or channel through UF the railroad	contractor will be refreshing pavement markings and markers up to the Railroad Tracks thin Railroad Right of Way. Any and all pavement markings placed will be to standard. wo-way traffic control operations will be implemented through UPRR ROW. No TCP signs izers will be within railroad ROW. RR flagging to be provided for entire duration of TCP PRR ROW. If Contractor creates a traffic contra-flow condition that causes vehicles to cross d tracks in an opposing lane, a railroad flagger is also required to be on-site for the in the contra-flow traffic control plan within UPRR ROW.
Scope of W	ork to be performed by Railroad Company:
None	
None	
None	
	GGING & INSPECTION
II. FLAG	GGING & INSPECTION
II. FLAG	GGING & INSPECTION  of Railroad Flagging Expected: 1
II. FLAC	
II. FLAC	of Railroad Flagging Expected: 1 ect, night or weekend flagging is:
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II. FLAC  No. of Days  On this proj  Expected  Not Expe  Railroad needed  Outside  Contractor requires a 3	of Railroad Flagging Expected: 1 ect, night or weekend flagging is: dected rvices will be provided by: Company: TxDOT will pay flagging invoices. Flagging Agreement with Railroad will be Party: Contractor will pay flagging invoices to be reimbursed by TxDOT must incorporate flaggers into anticipated construction schedule. The Railroad 80-day notice if their flaggers are to be utilized. If Contractor falls behind schedule due negligence and is not ready for scheduled flaggers, any flagging charges will be paid
II. FLAC  No. of Days  On this proj  Expected  Not Expe  Railroad needed  Outside  Contractor requires a 3 to their own by Contract	of Railroad Flagging Expected: 1 ect, night or weekend flagging is: dected rvices will be provided by: Company: TxDOT will pay flagging invoices. Flagging Agreement with Railroad will be Party: Contractor will pay flagging invoices to be reimbursed by TxDOT must incorporate flaggers into anticipated construction schedule. The Railroad 80-day notice if their flaggers are to be utilized. If Contractor falls behind schedule due negligence and is not ready for scheduled flaggers, any flagging charges will be paid or.
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II. FLAC  No. of Days  On this proj  Expected  Not Expe  Railroad needed  Outside  Contractor or requires a 3 to their own by Contract  Contact Info  UPRR	of Railroad Flagging Expected: 1 ect, night or weekend flagging is: detect rvices will be provided by: Company: TxDOT will pay flagging invoices. Flagging Agreement with Railroad will be Party: Contractor will pay flagging invoices to be reimbursed by TxDOT must incorporate flaggers into anticipated construction schedule. The Railroad 80-day notice if their flaggers are to be utilized. If Contractor falls behind schedule due negligence and is not ready for scheduled flaggers, any flagging charges will be paid or.  primation for Flagging: UP.info@railpros.com Call Center 877-315-0513, Select #1 for flagging UP.request@nrssinc.net Call Center 877-315-0513, Select #1 for flagging KCS.info@railpros.com Call Center 877-315-0513, Select #1 for flagging BOCS.info@railpros.com Call Center 877-315-0513, Select #1 for flagging
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	into anticipated construction schedule.					
<ul><li>☑ Not Required</li><li>☐ Required. Contact Information for Construction In</li></ul>	spection:					
Required. Softast information for construction in	spection.					
III. CONSTRUCTION WORK TO BE PERFORM	NED BY THE RAILROAD					
☐ Required. Railroad Point of Contact:  ☑ Not Required						
Coordinate with TxDOT for any work to be performed a work order for any work done by the Railroad Comp						
IV. RAILROAD INSURANCE REQUIREMENTS	3					
The Contractor shall confirm the insurance requirements with the Railroad as the insurance limits are subject to change without notice.						
Insurance policies and corresponding certificates of on behalf of the Railroad. Separate insurance policie than one Railroad Company is operating on the same Companies are involved and operate on their own se	es and certificates are required when more e right of way, or when several Railroad					
No direct compensation will be made to the Contract shown below or any deductibles. These costs are inc						
Escalated L	imits					
Type of Insurance	Amount of Coverage (Minimum)					
Workers Compensation	\$500,000 / \$500,000 / \$500,000					
Commercial General Liability	\$2,000,000 / \$4,000,000					
Business Automobile	\$2,000,000					
Railroad Protective I	Liability Limits					
☐ Not Required						
	o overpass/underpass and					
<ul> <li>Non - Bridge/Typical Maintenance Projects.</li> <li>Includes repairs to overpass/underpass and culvert structures</li> </ul>						
Includes repairs to overpass/underpass and	\$5,000,000 / \$10,000,000					
Includes repairs to overpass/underpass and culvert structures  Bridge Structure Projects. Includes new construction or replacement of overpass/	\$5,000,000 / \$10,000,000					

#### V. CONTRACTOR'S RIGHT OF ENTRY (CROE)

□ Not Required				
·				
Required: UPRR Maintenance Consent Letter. TxDOT to assist				
☐ Required: TxDOT to assist in obtaining the UPRR CROE				
☐ Required: Contractor to obtain				
□ BNSF:				
https://bnsf.railpermitting.com				
□ KCS				
https://jllrpg.360works.com/fmi/webd/rpo_web_kcs.fmp12				
☐ Other Railroads:				

To view previously approved CROE templates agreed upon between the State and Railroad, see: https://www.txdot.gov/business/resources/railroad-highway-crossing/sample-right-of-entry-agreements.html

Approved CROE templates are not to be modified by the Contractor.

Contractor shall not operate within Railroad Right of Way without an executed Construction & Maintenance Agreement between the State and the Railroad and an executed CROE between the Contractor and the Railroad if required on project.

#### VI. RAILROAD COORDINATION MEETING

A Railroad Coordination Meeting is required. See item 5, Article 8.1, of the Standard Specifications for Construction and Maintenance of Highways, Streets and Bridges Manual for more details.

#### **VII. RAILROAD SAFETY ORIENTATION**

A. Complete the Railroad's course "Orientation for Contractor's Safety," and maintain registration prior to working on the Railroad's property. This course is required to be completed annually by Contractor and Subcontractor personnel working on site.

UPRR, BNSF, KCS/TEXMEX will not accept on-track safety training certificates from other Railroads. Refer to each Railroad's specific contractor right of entry for training information.

Know and follow the Contractor's Right of Entry Agreement EXHIBIT D, MINIMUM SAFETY REQUIREMENTS regarding clothing, personal protective equipment, and general safety requirements.

#### VIII. SUBCONTRACTORS

Contractor shall not subcontract work without written consent of TxDOT. Subcontractors are subject to the same insurance requirements as the Prime Contractor.

#### IX. EMERGENCY NOTIFICATION

In Case of Railroad Emergency				
Call: Union Pacific Railroad Company				
Railroad Emergency Line at: 800-848-8715				
Location: DOT 746314J				
RR Milepost: 29.360				
Subdivision: Kosmos Ind Ld				

RRD Review Only
Initials:
Date: 06/05/2023



Rail Division

# RAILROAD SCOPE OF WORK PROJECT SPECIFIC DETAILS

FILE: rr-scope-of-work.pdf		DN: TX	DOT	ск:	DW:		ск:
© TxDOT	June 2014	CONT	SECT	JOB		HIG	HWAY
REVISIONS		0916	00	228		IH37, ETC.	
3/2023							

CRP

NUECES, ETC.

	ect is adjacent or parallel work, not within RR ROW:
DOT No.: <u>9</u>	
	pe: At Grade on BS 35L
	ny Operating Track at Crossing: Union Pacific Railroad Company
	ny Owning Track at Crossing: Union Pacific Railroad Company
RR MP: 29	
RR Subdivis City: Arans	Sion: Kosmos Ind Ld
County: Ara	
	Crossing: 0916-00-228
003 41 1110	orosong.
Scope of W	ork, including any TCP, to be performed by State Contractor:
within Rail two-way tra channelize through ra cross the r	s Contractor will be refreshing pavement markings and markers up to the Railroad Tracks road Right of Way. Any and all pavement markings placed will be to standard. One lane, affic control operations will be implemented through railroad ROW. No TCP signs or ers will be within railroad ROW. RR flagging to be provided for entire duration of TCP ilroad ROW. If Contractor creates a traffic contra-flow condition that causes vehicles to railroad tracks in an opposing lane, a railroad flagger is also required to be on-site for the f the contra-flow traffic control plan within railroad ROW.
Scope of W	ork to be performed by Railroad Company:
None	
None	
None	
	GGING & INSPECTION
II. FLA	
II. FLAG	of Railroad Flagging Expected: 1
II. FLAG	of Railroad Flagging Expected: 1
II. FLA( No. of Days On this proj □ Expecte	of Railroad Flagging Expected: 1 lect, night or weekend flagging is:
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II. FLAC  No. of Days  On this proj  Expecte.  ✓ Not Expe  ✓ Railroad needed  ✓ Outside  Contractor requires a 3 to their owr by Contract  Contact Info  ✓ UPRR	s of Railroad Flagging Expected:   dect, night or weekend flagging is: dected  rvices will be provided by: Company: TxDOT will pay flagging invoices. Flagging Agreement with Railroad will be  Party: Contractor will pay flagging invoices to be reimbursed by TxDOT  must incorporate flaggers into anticipated construction schedule. The Railroad 30-day notice if their flaggers are to be utilized. If Contractor falls behind schedule duent negligence and is not ready for scheduled flaggers, any flagging charges will be paid for.  ormation for Flagging:  UP.info@railpros.com Call Center 877-315-0513, Select #1 for flagging  UP.request@nrssinc.net Call Center 877-984-677  BNSFinfo@railprosfs.com Call Center 877-315-0513, Select #1 for flagging  KCS.info@railpros.com

ΛV	
AI	
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due iid	

Required. Contact Information for Construction In	enection:
required. Contact information for Construction in	spection.
I. CONSTRUCTION WORK TO BE PERFORM	MED BY THE RAILROAD
Required. Railroad Point of Contact:	
Not Required	
oordinate with TxDOT for any work to be performed work order for any work done by the Railroad Comp	
. RAILROAD INSURANCE REQUIREMENTS	3
ne Contractor shall confirm the insurance requirem re subject to change without notice.	ents with the Railroad as the insurance limit
surance policies and corresponding certificates of n behalf of the Railroad. Separate insurance policies an one Railroad Company is operating on the same companies are involved and operate on their own se	es and certificates are required when more e right of way, or when several Railroad
	,
	hau fau auguidiae dha iaannaa a annauaea
o direct compensation will be made to the Contractory  nown below or any deductibles. These costs are inc	
	cidental to the various bid items.
nown below or any deductibles. These costs are inc	cidental to the various bid items.
nown below or any deductibles. These costs are inc	idental to the various bid items.
Type of Insurance	imits  Amount of Coverage (Minimum)
Escalated L  Type of Insurance  Workers Compensation	Amount of Coverage (Minimum) \$500,000 / \$500,000 / \$500,000
Escalated L  Type of Insurance  Workers Compensation  Commercial General Liability	Amount of Coverage (Minimum)  \$500,000 / \$500,000 / \$500,000  \$2,000,000 / \$4,000,000
Escalated L  Type of Insurance  Workers Compensation  Commercial General Liability	Amount of Coverage (Minimum) \$500,000 / \$500,000 / \$500,000 \$2,000,000 / \$4,000,000 \$2,000,000
Escalated L  Type of Insurance  Workers Compensation  Commercial General Liability  Business Automobile	Amount of Coverage (Minimum) \$500,000 / \$500,000 / \$500,000 \$2,000,000 / \$4,000,000 \$2,000,000
Escalated L  Type of Insurance Workers Compensation Commercial General Liability Business Automobile  Railroad Protective I	Amount of Coverage (Minimum) \$500,000 / \$500,000 / \$500,000 \$2,000,000 / \$4,000,000 \$2,000,000
Escalated L  Type of Insurance Workers Compensation Commercial General Liability Business Automobile  Railroad Protective I  Not Required  Non - Bridge/Typical Maintenance Projects. Includes repairs to overpass/underpass and	Amount of Coverage (Minimum) \$500,000 / \$500,000 \$2,000,000 / \$4,000,000 \$2,000,000
Escalated L  Type of Insurance Workers Compensation Commercial General Liability Business Automobile  Railroad Protective I  Not Required  Non - Bridge/Typical Maintenance Projects. Includes repairs to overpass/underpass and culvert structures  Bridge Structure Projects. Includes new construction or replacement of overpass/	Amount of Coverage (Minimum) \$500,000 / \$500,000 / \$500,000 \$2,000,000 / \$4,000,000 \$2,000,000 \$2,000,000 \$2,000,000 / \$6,000,000 \$5,000,000 / \$10,000,000

☐ Not Required
☑ Required: UPRR Maintenance Consent Letter. TxDOT to assist
$\ \square$ Required: TxDOT to assist in obtaining the UPRR CROE
☐ Required: Contractor to obtain
☐ BNSF:
☐ KCS https://jllrpg.360works.com/fmi/webd/rpo_web_kcs.fmp12
☐ Other Railroads:

To view previously approved CROE templates agreed upon between the State and Railroad, see: https://www.txdot.gov/business/resources/railroad-highway-crossing/sample-right-of-entry-agreements.html

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#### IX. EMERGENCY NOTIFICATION

In Case of Railroad Emergency
Call: Union Pacific Railroad Company
Railroad Emergency Line at: 800-848-8715
Location: DOT 978445D
RR Milepost: 29.092
Subdivision: Kosmos Ind Ld



Rail Division

FILE: rr-scop	e-of-work.pdf	DN: TX	DOT	CK: D	w:	ск:
© TxDOT	June 2014	CONT	SECT	JOB		HIGHWAY
0/0000	REVISIONS	0916	00	228	II-	137,ETC.
3/2023		DIST		COUNTY		SHEET NO.
		CRD		NUECES ET	C.	72

	ect is adjacent or parallel work, not within RR ROW:
DOT No.: _7	
	pe: railroad under US 181 (closed-tracks removed as well as highway overpass)
	y Operating Track at Crossing: Union Pacific Railroad Company y Owning Track at Crossing: Union Pacific Railroad Company
RR MP: 0.5	
	sion: Corpus Christi
City: Skidm	
County: Be	
	Crossing: 0916-00-228
Scope of W	ork, including any TCP, to be performed by State Contractor:
Way across an at grade	s Contractor will be refreshing pavement markings and markers through Railroad Right of s this closed crossing (tracks removed as well as the highway overpass so that this is now e crossing. Any and all pavement markings placed will be to standard. TCP signs and/or res will be within railroad ROW across this closed crossing.
Scope of W	ork to be performed by Railroad Company:
None	
II. FLAG	GGING & INSPECTION  of Railroad Flagging Expected: 0
II. FLAC	of Railroad Flagging Expected: 0 ect, night or weekend flagging is:
II. FLAC  No. of Days  On this proj  □ Expected  ☑ Not Expect	of Railroad Flagging Expected: 0 ect, night or weekend flagging is:
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II. FLAC  No. of Days  On this proj  Expected  Not Expe  Railroad needed  Outside  Contractor requires a 3 to their own by Contract  Contact Info	of Railroad Flagging Expected:  oect, night or weekend flagging is: dected  rvices will be provided by: Company: TxDOT will pay flagging invoices. Flagging Agreement with Railroad will be  Party: Contractor will pay flagging invoices to be reimbursed by TxDOT  must incorporate flaggers into anticipated construction schedule. The Railroad 30-day notice if their flaggers are to be utilized. If Contractor falls behind schedule due a negligence and is not ready for scheduled flaggers, any flagging charges will be paid or.  primation for Flagging:  UP.info@railpros.com Call Center 877-315-0513, Select #1 for flagging UP.request@nrssinc.net
II. FLAC  No. of Days  On this proj  Expected  Not Expe  Railroad needed  Outside  Contractor requires a 3 to their own by Contract  Contact Info	of Railroad Flagging Expected:  ect, night or weekend flagging is: dected rvices will be provided by: Company: TxDOT will pay flagging invoices. Flagging Agreement with Railroad will be Party: Contractor will pay flagging invoices to be reimbursed by TxDOT must incorporate flaggers into anticipated construction schedule. The Railroad 30-day notice if their flaggers are to be utilized. If Contractor falls behind schedule due in negligence and is not ready for scheduled flaggers, any flagging charges will be paid or.  primation for Flagging: UP.info@railpros.com Call Center 877-315-0513, Select #1 for flagging UP.request@nrssinc.net Call Center 877-984-677 BNSFinfo@railprosfs.com
II. FLAC  No. of Days  On this proj  Expected  Not Expected  Railroad needed  Outside  Contractor requires a 3 to their own by Contract  Contact Info	of Railroad Flagging Expected:  oect, night or weekend flagging is: dected  rvices will be provided by: Company: TxDOT will pay flagging invoices. Flagging Agreement with Railroad will be  Party: Contractor will pay flagging invoices to be reimbursed by TxDOT  must incorporate flaggers into anticipated construction schedule. The Railroad 80-day notice if their flaggers are to be utilized. If Contractor falls behind schedule due in negligence and is not ready for scheduled flaggers, any flagging charges will be paid or.  ormation for Flagging:  UP.info@railpros.com  Call Center 877-315-0513, Select #1 for flagging  UP.request@nrssinc.net  Call Center 877-984-677
II. FLAC  No. of Days  On this proj  Expected  Not Expected  Not Expected  Railroad needed  Outside  Contractor requires a 3 to their owr by Contract  Contact Info  UPRR	of Railroad Flagging Expected:  cett, night or weekend flagging is: dected  rvices will be provided by:  Company: TxDOT will pay flagging invoices. Flagging Agreement with Railroad will be  Party: Contractor will pay flagging invoices to be reimbursed by TxDOT  must incorporate flaggers into anticipated construction schedule. The Railroad 80-day notice if their flaggers are to be utilized. If Contractor falls behind schedule due in regligence and is not ready for scheduled flaggers, any flagging charges will be paid or.  primation for Flagging:  UP.info@railpros.com  Call Center 877-315-0513, Select #1 for flagging  UP.request@nrssinc.net  Call Center 877-984-677  BNSFinfo@railprosfs.com  Call Center 877-315-0513, Select #1 for flagging  KCS.info@railpros.com
II. FLAC  No. of Days  On this proj  Expected  Not Expected  Not Expected  Railroad needed  Outside  Contractor requires a 3 to their owr by Contract  Contact Info  UPRR	of Railroad Flagging Expected: Oect, night or weekend flagging is: dected rvices will be provided by: Company: TxDOT will pay flagging invoices. Flagging Agreement with Railroad will be Party: Contractor will pay flagging invoices to be reimbursed by TxDOT must incorporate flaggers into anticipated construction schedule. The Railroad 30-day notice if their flaggers are to be utilized. If Contractor falls behind schedule due on negligence and is not ready for scheduled flaggers, any flagging charges will be paid or.  primation for Flagging: UP.info@railpros.com Call Center 877-315-0513, Select #1 for flagging UP.request@nrssinc.net Call Center 877-315-0513, Select #1 for flagging KCS.info@railpros.com Call Center 877-315-0513, Select #1 for flagging KCS.info@railpros.com Call Center 877-315-0513, Select #1 for flagging Bottom Line On-Track Safety Services bottomline076@aol.com, 903-767-7630

Contractor must incorporate Construction Inspection	n into anticipated construction schedule.
<ul><li>☑ Not Required</li><li>☐ Required. Contact Information for Construction I</li></ul>	nspection:
Trequired. Contact information for Constitution in	inspection.
III. CONSTRUCTION WORK TO BE PERFOR	MED BY THE RAILROAD
☐ Required. Railroad Point of Contact:  ☑ Not Required	
Coordinate with TxDOT for any work to be performed a work order for any work done by the Railroad Com	
IV. RAILROAD INSURANCE REQUIREMENT	s
The Contractor shall confirm the insurance required are subject to change without notice.	nents with the Railroad as the insurance limits
Insurance policies and corresponding certificates or on behalf of the Railroad. Separate insurance polici than one Railroad Company is operating on the sam Companies are involved and operate on their own s	es and certificates are required when more ne right of way, or when several Railroad
No direct compensation will be made to the Contract shown below or any deductibles. These costs are in	
Escalated	Limits
Type of Insurance	Amount of Coverage (Minimum)
Workers Compensation	\$500,000 / \$500,000 / \$500,000
Commercial General Liability	\$2,000,000 / \$4,000,000
Business Automobile	\$2,000,000
Railroad Protective	Liability Limits
☐ Not Required	
<ul> <li>Non - Bridge/Typical Maintenance Projects.</li> <li>Includes repairs to overpass/underpass and culvert structures</li> </ul>	\$2,000,000 / \$6,000,000
☐ Bridge Structure Projects. Includes new construction or replacement of overpass/ underpass structures	\$5,000,000 / \$10,000,000
□ Other:	

□ Not Required
☑ Required: UPRR Maintenance Consent Letter. TxDOT to assist
☐ Required: TxDOT to assist in obtaining the UPRR CROE
☐ Required: Contractor to obtain
☐ BNSF:
☐ KCS https://jllrpg.360works.com/fmi/webd/rpo_web_kcs.fmp12
☐ Other Railroads:

To view previously approved CROE templates agreed upon between the State and Railroad, see: https://www.txdot.gov/business/resources/railroad-highway-crossing/sample-right-of-entry-agreements.html

Approved CROE templates are not to be modified by the Contractor.

Contractor shall not operate within Railroad Right of Way without an executed Construction & Maintenance Agreement between the State and the Railroad and an executed CROE between the Contractor and the Railroad if required on project.

#### VI. RAILROAD COORDINATION MEETING

A Railroad Coordination Meeting is required. See item 5, Article 8.1, of the Standard Specifications for Construction and Maintenance of Highways, Streets and Bridges Manual for more details.

#### VII. RAILROAD SAFETY ORIENTATION

A. Complete the Railroad's course "Orientation for Contractor's Safety," and maintain registration prior to working on the Railroad's property. This course is required to be completed annually by Contractor and Subcontractor personnel working on site.

UPRR, BNSF, KCS/TEXMEX will not accept on-track safety training certificates from other Railroads. Refer to each Railroad's specific contractor right of entry for training information.

Know and follow the Contractor's Right of Entry Agreement EXHIBIT D, MINIMUM SAFETY REQUIREMENTS regarding clothing, personal protective equipment, and general safety requirements.

#### VIII. SUBCONTRACTORS

Contractor shall not subcontract work without written consent of TxDOT. Subcontractors are subject to the same insurance requirements as the Prime Contractor.

#### IX. EMERGENCY NOTIFICATION

	f Railroad Emergency	
Call: Unio	on Pacific Railroad Company	
Railroad E	Emergency Line at: <u>800-848-8715</u>	
Location:	DOT 746359R	
RR Milepo	ost: 0.500	
Subdivision	on: Corpus Christi	



RAILROAD SCOPE OF WORK

Division

ILE: rr-scop	e-of-work.pdf	DN: TX	DOT	ск:	DW:	ск:
© TxDOT	June 2014	CONT	SECT	JOB		HIGHWAY
0/0000	REVISIONS	0916	00	228	IF	137, ETC.
3/2023		DIST		COUNTY		SHEET NO.
		CRP		NUECES, E	ETC.	73

DOT No.: 74	ect is adjacent or parallel work, not within RR ROW:
Crossing Typ	e: at grade on FM 3241/ North Texas Blvd (abandoned)
	Operating Track at Crossing: Union Pacific Railroad Company
	Owning Track at Crossing: Union Pacific Railroad Company
RR MP: 39.5	
	on: Corpus Christi
City: Alice	
County: Jim	
CSJ at this C	Crossing: 0916-00-228
Scope of Wo	rk, including any TCP, to be performed by State Contractor:
the railroad through rail	Contractor will be refreshing pavement markings and markers on the facility parallel to tracks (abandoned) outside of railroad right of way. Traffic control may be implemented road right of way at the cross street. TCP signs and/or channelizers may be placed within W across this closed/abandoned crossing.
Scope of Wo	rk to be performed by Railroad Company:
None	
II. FLAG	GING & INSPECTION
No. of Days	of Railroad Flagging Expected: 0
☐ Expected	ect, night or weekend flagging is:
☑ Lxpected ☑ Not Exped	
E NOT EXPO	, cou
Flagging ser	
☐ Railroad (	vices will be provided by:
	vices will be provided by: Company: TxDOT will pay flagging invoices. Flagging Agreement with Railroad will be
needed	Company: TxDOT will pay flagging invoices. Flagging Agreement with Railroad will be
needed	
needed  Outside P  Contractor m requires a 30	Company: TxDOT will pay flagging invoices. Flagging Agreement with Railroad will be Party: Contractor will pay flagging invoices to be reimbursed by TxDOT must incorporate flaggers into anticipated construction schedule. The Railroad 0-day notice if their flaggers are to be utilized. If Contractor falls behind schedule due negligence and is not ready for scheduled flaggers, any flagging charges will be paid
needed  Outside P  Contractor m requires a 30 to their own by Contracto	Company: TxDOT will pay flagging invoices. Flagging Agreement with Railroad will be Party: Contractor will pay flagging invoices to be reimbursed by TxDOT must incorporate flaggers into anticipated construction schedule. The Railroad 0-day notice if their flaggers are to be utilized. If Contractor falls behind schedule due negligence and is not ready for scheduled flaggers, any flagging charges will be paid or.
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needed  ✓ Outside P  Contractor m  requires a 30  to their own  by Contracto  Contact Info	Company: TxDOT will pay flagging invoices. Flagging Agreement with Railroad will be Party: Contractor will pay flagging invoices to be reimbursed by TxDOT must incorporate flaggers into anticipated construction schedule. The Railroad O-day notice if their flaggers are to be utilized. If Contractor falls behind schedule due negligence and is not ready for scheduled flaggers, any flagging charges will be paid or.
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needed  ✓ Outside P  Contractor m requires a 30 to their own by Contractor  Contact Info  ✓ UPRR   □ BNSF	Company: TxDOT will pay flagging invoices. Flagging Agreement with Railroad will be Party: Contractor will pay flagging invoices to be reimbursed by TxDOT must incorporate flaggers into anticipated construction schedule. The Railroad O-day notice if their flaggers are to be utilized. If Contractor falls behind schedule due negligence and is not ready for scheduled flaggers, any flagging charges will be paid or.  rmation for Flagging:  UP.info@railpros.com  Call Center 877-315-0513, Select #1 for flagging  UP.request@nrssinc.net  Call Center 877-984-677
needed  ✓ Outside P  Contractor m requires a 30 to their own by Contractor  Contact Info  ✓ UPRR   □ BNSF	Company: TxDOT will pay flagging invoices. Flagging Agreement with Railroad will be Party: Contractor will pay flagging invoices to be reimbursed by TxDOT must incorporate flaggers into anticipated construction schedule. The Railroad O-day notice if their flaggers are to be utilized. If Contractor falls behind schedule due negligence and is not ready for scheduled flaggers, any flagging charges will be paid or.  rmation for Flagging:  UP.info@railpros.com  Call Center 877-315-0513, Select #1 for flagging  UP.request@nrssinc.net  Call Center 877-984-677  BNSFinfo@railprosfs.com  Call Center 877-315-0513, Select #1 for flagging  KCS.info@railpros.com
needed  ✓ Outside P  Contractor m  requires a 30  to their own  by Contracto  Contact Info	Company: TxDOT will pay flagging invoices. Flagging Agreement with Railroad will be Party: Contractor will pay flagging invoices to be reimbursed by TxDOT must incorporate flaggers into anticipated construction schedule. The Railroad O-day notice if their flaggers are to be utilized. If Contractor falls behind schedule due negligence and is not ready for scheduled flaggers, any flagging charges will be paid or.  rmation for Flagging:  UP.info@railpros.com  Call Center 877-315-0513, Select #1 for flagging  UP.request@nrssinc.net  Call Center 877-984-677  BNSFinfo@railprosfs.com  Call Center 877-315-0513, Select #1 for flagging  KCS.info@railpros.com  Call Center 877-315-0513, Select #1 for flagging  Bottom Line On-Track Safety Services
needed  ✓ Outside P  Contractor m requires a 30 to their own by Contracto  Contact Info  ✓ UPRR  □ BNSF  □ KCS	Company: TxDOT will pay flagging invoices. Flagging Agreement with Railroad will be Party: Contractor will pay flagging invoices to be reimbursed by TxDOT must incorporate flaggers into anticipated construction schedule. The Railroad O-day notice if their flaggers are to be utilized. If Contractor falls behind schedule due negligence and is not ready for scheduled flaggers, any flagging charges will be paid or.  rmation for Flagging:  UP.info@railpros.com  Call Center 877-315-0513, Select #1 for flagging  UP.request@nrssinc.net  Call Center 877-984-677  BNSFinfo@railprosfs.com  Call Center 877-315-0513, Select #1 for flagging  KCS.info@railpros.com  Call Center 877-315-0513, Select #1 for flagging  Bottom Line On-Track Safety Services
needed  ✓ Outside P  Contractor m requires a 30 to their own by Contracto  Contact Info  ✓ UPRR  □ BNSF  □ KCS	Company: TxDOT will pay flagging invoices. Flagging Agreement with Railroad will be Party: Contractor will pay flagging invoices to be reimbursed by TxDOT must incorporate flaggers into anticipated construction schedule. The Railroad O-day notice if their flaggers are to be utilized. If Contractor falls behind schedule due negligence and is not ready for scheduled flaggers, any flagging charges will be paid or.  rmation for Flagging:  UP.info@railpros.com  Call Center 877-315-0513, Select #1 for flagging  UP.request@nrssinc.net  Call Center 877-984-677  BNSFinfo@railprosfs.com  Call Center 877-315-0513, Select #1 for flagging  KCS.info@railpros.com  Call Center 877-315-0513, Select #1 for flagging  Bottom Line On-Track Safety Services

Contractor must incorporate Construction Inspection	into anticipated construction schedule.		
<ul><li>☑ Not Required</li><li>☐ Required. Contact Information for Construction In</li></ul>	nspection:		
III. CONSTRUCTION WORK TO BE PERFOR	MED BY THE RAILROAD		
☐ Required. Railroad Point of Contact:  ☑ Not Required			
Coordinate with TxDOT for any work to be performed a work order for any work done by the Railroad Com			
IV. RAILROAD INSURANCE REQUIREMENT	s		
The Contractor shall confirm the insurance requirem are subject to change without notice.	nents with the Railroad as the insurance limits		
Insurance policies and corresponding certificates of on behalf of the Railroad. Separate insurance polici than one Railroad Company is operating on the sam Companies are involved and operate on their own so	es and certificates are required when more ne right of way, or when several Railroad		
No direct compensation will be made to the Contract shown below or any deductibles. These costs are in			
Escalated	Limits		
Type of Insurance	Amount of Coverage (Minimum)		
Workers Compensation	\$500,000 / \$500,000 / \$500,000		
Commercial General Liability	\$2,000,000 / \$4,000,000		
Business Automobile \$2,000,000			
Railroad Protective	Liability Limits		
☐ Not Required			
<ul> <li>Non - Bridge/Typical Maintenance Projects.</li> <li>Includes repairs to overpass/underpass and culvert structures</li> </ul>	\$2,000,000 / \$6,000,000		
☐ Bridge Structure Projects. Includes new construction or replacement of overpass/ underpass structures	\$5,000,000 / \$10,000,000		
□ Other:			

□ Not Required
☑ Required: UPRR Maintenance Consent Letter. TxDOT to assist
☐ Required: TxDOT to assist in obtaining the UPRR CROE
☐ Required: Contractor to obtain
☐ BNSF:
☐ KCS https://jllrpg.360works.com/fmi/webd/rpo_web_kcs.fmp12
☐ Other Railroads:

To view previously approved CROE templates agreed upon between the State and Railroad, see: https://www.txdot.gov/business/resources/railroad-highway-crossing/sample-right-of-entry-agreements.html

Approved CROE templates are not to be modified by the Contractor.

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Know and follow the Contractor's Right of Entry Agreement EXHIBIT D, MINIMUM SAFETY REQUIREMENTS regarding clothing, personal protective equipment, and general safety requirements.

#### VIII. SUBCONTRACTORS

Contractor shall not subcontract work without written consent of TxDOT. Subcontractors are subject to the same insurance requirements as the Prime Contractor.

#### IX. EMERGENCY NOTIFICATION

In Case of Railroad Emergency	
Call: Union Pacific Railroad Company	
Railroad Emergency Line at: 800-848-8715	
Location: DOT 746238T	
RR Milepost: 39.590	
Subdivision: Laredo	



Rail Division

FILE: rr-scope-of-work.pdf		DN: Tx	DOT	CK: DW:		ск:	
© TxDOT June 2014		CONT	SECT	JOB		HIGHWAY	
0/0000	REVISIONS	0916	00	228		IH37,ETC	
3/2023		DIST		COUNTY		SHEET	۲NO.
		CDD		NUIECES ET	·r	7/	1

☐ This project DOT No.: 79	ect is adjacent or parallel work, not within RR ROW: 93651B
	oe: at grade on FM 1931/ Fluornoy Rd
	y Operating Track at Crossing: Kansas City Southern Railroad
	y Owning Track at Crossing: Texas Mexican Railway
RR MP: 121	
RR Subdivis	ion: Laredo
City: Alice	
County: Jim	Wells
CSJ at this (	Crossing: _0916-00-228
Scope of Wo	ork, including any TCP, to be performed by State Contractor:
within Railr two-way tra channelize through rai cross the ra	Contractor will be refreshing pavement markings and markers up to the Railroad Tracks road Right of Way. Any and all pavement markings placed will be to standard. One lane, iffic control operations will be implemented through railroad ROW. No TCP signs or rs will be within railroad ROW. RR flagging to be provided for entire duration of TCP Iroad ROW. If Contractor creates a traffic contra-flow condition that causes vehicles to allroad tracks in an opposing lane, a railroad flagger is also required to be on-site for the the contra-flow traffic control plan within railroad ROW.
Scope of Wo	ork to be performed by Railroad Company:
None	
None	
None	
	GING & INSPECTION
II. FLAG	
II. FLAG	of Railroad Flagging Expected: 1
II. FLAG	of Railroad Flagging Expected: 1 ect, night or weekend flagging is:
II. FLAG	of Railroad Flagging Expected: 1 ect, night or weekend flagging is:
II. FLAG  No. of Days  On this proje  □ Expected  ☑ Not Expe	of Railroad Flagging Expected: 1 ect, night or weekend flagging is: dected
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II. FLAG  No. of Days  On this proje  Expected  Not Expe  Railroad needed  Outside F  Contractor r requires a 3 to their own by Contractor	of Railroad Flagging Expected:  ect, night or weekend flagging is: cted vices will be provided by: Company: TxDOT will pay flagging invoices. Flagging Agreement with Railroad will be Party: Contractor will pay flagging invoices to be reimbursed by TxDOT must incorporate flaggers into anticipated construction schedule. The Railroad iO-day notice if their flaggers are to be utilized. If Contractor falls behind schedule du negligence and is not ready for scheduled flaggers, any flagging charges will be paid or.  ormation for Flagging: UP.info@railpros.com Call Center 877-315-0513, Select #1 for flagging UP.request@nrssinc.net Call Center 877-984-677
II. FLAG  No. of Days On this proje □ Expected ☑ Not Expe □ Railroad needed ☑ Outside If Contractor r requires a 3 to their own by Contractor □ UPRR □ BNSF	of Railroad Flagging Expected: 1 ect, night or weekend flagging is: deted rvices will be provided by: Company: TxDOT will pay flagging invoices. Flagging Agreement with Railroad will be Party: Contractor will pay flagging invoices to be reimbursed by TxDOT must incorporate flaggers into anticipated construction schedule. The Railroad 60-day notice if their flaggers are to be utilized. If Contractor falls behind schedule du negligence and is not ready for scheduled flaggers, any flagging charges will be paid or.  ormation for Flagging: UP.info@railpros.com Call Center 877-315-0513, Select #1 for flagging UP.request@nrssinc.net Call Center 877-984-677 BNSFinfo@railprosfs.com Call Center 877-315-0513, Select #1 for flagging KCS.info@railpros.com

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Not Required	
Required. Contact Information for Construction In	spection:
I. CONSTRUCTION WORK TO BE PERFORM	IED BY THE RAILROAD
Required. Railroad Point of Contact:	
Not Required	
coordinate with TxDOT for any work to be performed work order for any work done by the Railroad Comp	
V. RAILROAD INSURANCE REQUIREMENTS	<b>;</b>
he Contractor shall confirm the insurance requirement re subject to change without notice.	ents with the Railroad as the insurance limit
nsurance policies and corresponding certificates of in behalf of the Railroad. Separate insurance policienan one Railroad Company is operating on the same	s and certificates are required when more
ompanies are involved and operate on their own se	parate right of ways.
companies are involved and operate on their own se	
companies are involved and operate on their own sells of direct compensation will be made to the Contract hown below or any deductibles. These costs are inc	or for providing the insurance coverages
lo direct compensation will be made to the Contract	or for providing the insurance coverages
lo direct compensation will be made to the Contract	or for providing the insurance coverages idental to the various bid items.
lo direct compensation will be made to the Contract hown below or any deductibles. These costs are inc	or for providing the insurance coverages idental to the various bid items.
o direct compensation will be made to the Contract hown below or any deductibles. These costs are inc <b>Escalated L</b> i	or for providing the insurance coverages idental to the various bid items.
lo direct compensation will be made to the Contract hown below or any deductibles. These costs are inc  Escalated Li  Type of Insurance	or for providing the insurance coverages idental to the various bid items.  imits  Amount of Coverage (Minimum)
o direct compensation will be made to the Contract hown below or any deductibles. These costs are inc  Escalated Li  Type of Insurance  Workers Compensation	imits  Amount of Coverage (Minimum)  \$500,000 / \$500,000 / \$500,000  \$2,000,000 / \$4,000,000
lo direct compensation will be made to the Contract hown below or any deductibles. These costs are inc  Escalated Li  Type of Insurance  Workers Compensation  Commercial General Liability	or for providing the insurance coverages idental to the various bid items.  imits  Amount of Coverage (Minimum)  \$500,000 / \$500,000 / \$500,000
lo direct compensation will be made to the Contract hown below or any deductibles. These costs are inc  Escalated Li  Type of Insurance  Workers Compensation  Commercial General Liability  Business Automobile	imits  Amount of Coverage (Minimum)  \$500,000 / \$500,000 / \$500,000  \$2,000,000 / \$4,000,000  \$2,000,000
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lo direct compensation will be made to the Contract hown below or any deductibles. These costs are inc  Escalated Li  Type of Insurance  Workers Compensation  Commercial General Liability  Business Automobile  Railroad Protective L	imits  Amount of Coverage (Minimum) \$500,000 / \$500,000 / \$500,000 \$2,000,000 / \$4,000,000
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Io direct compensation will be made to the Contract hown below or any deductibles. These costs are inc  Escalated Li  Type of Insurance  Workers Compensation  Commercial General Liability  Business Automobile  Railroad Protective L  Not Required  Non - Bridge/Typical Maintenance Projects. Includes repairs to overpass/underpass and	imits  Amount of Coverage (Minimum) \$500,000 / \$500,000 / \$500,000 \$2,000,000 / \$4,000,000

☐ Not Required
☐ Required: UPRR Maintenance Consent Letter. TxDOT to assist
$\ \square$ Required: TxDOT to assist in obtaining the UPRR CROE
☑ Required: Contractor to obtain
☐ BNSF:
☑ KCS https://jllrpg.360works.com/fmi/webd/rpo_web_kcs.fmp12
☐ Other Railroads:

To view previously approved CROE templates agreed upon between the State and Railroad, see: https://www.txdot.gov/business/resources/railroad-highway-crossing/sample-right-of-entry-agreements.html

Approved CROE templates are not to be modified by the Contractor.

Contractor shall not operate within Railroad Right of Way without an executed Construction & Maintenance Agreement between the State and the Railroad and an executed CROE between the Contractor and the Railroad if required on project.

#### VI. RAILROAD COORDINATION MEETING

A Railroad Coordination Meeting is required. See item 5, Article 8.1, of the Standard Specifications for Construction and Maintenance of Highways, Streets and Bridges Manual for more details.

#### VII. RAILROAD SAFETY ORIENTATION

A. Complete the Railroad's course "Orientation for Contractor's Safety," and maintain registration prior to working on the Railroad's property. This course is required to be completed annually by Contractor and Subcontractor personnel working on site.

UPRR, BNSF, KCS/TEXMEX will not accept on-track safety training certificates from other Railroads. Refer to each Railroad's specific contractor right of entry for training information.

Know and follow the Contractor's Right of Entry Agreement EXHIBIT D, MINIMUM SAFETY REQUIREMENTS regarding clothing, personal protective equipment, and general safety requirements.

#### VIII. SUBCONTRACTORS

Contractor shall not subcontract work without written consent of TxDOT. Subcontractors are subject to the same insurance requirements as the Prime Contractor.

#### IX. EMERGENCY NOTIFICATION

In Case of F	Railroad Emergency
Call: Kansa	s City Southern Railroad
Railroad Em	nergency Line at: 877-527-9464
Location: Do	OT 793651B
RR Milepost	: <u>121.200</u>
Subdivision	Laredo

Review Only
als: _______ Texas Department of Transportation

Rail Division

FILE: TT-SCOP	e-of-work.pdf	DN: Tx	DOT	CK:	DW:	CK:
© TxDOT	June 2014	CONT	SECT	JOB		HIGHWAY
0/0000	REVISIONS	0916	00	228	II	137, ETC.
3/2023		DIST		COUNTY		SHEET NO.
		CRP	N	IUECES,	ETC.	75

DOT No.: 79 Crossing Ty RR Compan RR Compan RR MP: 11	ect is adjacent or parallel work, not within RR ROW: 93801G  pe: at grade on CR113  y Operating Track at Crossing: Kansas City Southern Railroad  y Owning Track at Crossing: Texas Mexican Railway
RR Compan RR Compan RR MP: 11	y Operating Track at Crossing: Kansas City Southern Railroad
RR Compan RR MP: <u>11</u>	
RR MP: 11	v Owning Track at Crossing: Texas Mexican Railway
	,
RR Subdivis	7.500
	ion: Laredo
City: Alice	
County: <u>Jim</u>	) Wells
CSJ at this	Crossing: <u>0916-00-228</u>
Scope of W	ork, including any TCP, to be performed by State Contractor:
the railroad	s Contractor will be refreshing pavement markings and markers on the facility parallel to d tracks outside of railroad ROW. Traffic control may be implemented through railroad e county road cross street. No TCP channelizers will be within railroad ROW. RR flagging to d for the entire duration of TCP through railroad ROW.
Scope of W	ork to be performed by Railroad Company:
None.	
On this proj □ Expected ☑ Not Expe	
00 0	rvices will be provided by:  Company: TxDOT will pay flagging invoices. Flagging Agreement with Railroad will be
✓ Outside	Party: Contractor will pay flagging invoices to be reimbursed by TxDOT
requires a 3	must incorporate flaggers into anticipated construction schedule. The Railroad 80-day notice if their flaggers are to be utilized. If Contractor falls behind schedule due negligence and is not ready for scheduled flaggers, any flagging charges will be paid or.
Contact Info	ormation for Flagging:
□ UPRR	UP.info@railpros.com Call Center 877-315-0513, Select #1 for flagging
	UP.request@nrssinc.net Call Center 877-984-677
BNSF	BNSFinfo@railprosfs.com Call Center 877-315-0513, Select #1 for flagging
	KCS.info@railpros.com
✓ KCS	Call Center 877-315-0513, Select #1 for flagging
☑ KCS	Call Center 877-315-0513, Select #1 for flagging  Bottom Line On-Track Safety Services bottomline076@aol.com, 903-767-7630

Contractor must incorporate Construction Inspection	into anticipated construction schedule.			
<ul><li>☑ Not Required</li><li>☐ Required. Contact Information for Construction In</li></ul>	spection:			
III. CONSTRUCTION WORK TO BE PERFORM	MED BY THE RAILROAD			
☐ Required. Railroad Point of Contact:  ☑ Not Required				
Coordinate with TxDOT for any work to be performed a work order for any work done by the Railroad Comp				
IV. RAILROAD INSURANCE REQUIREMENTS	5			
The Contractor shall confirm the insurance requirem are subject to change without notice.	ents with the Railroad as the insurance limits			
Insurance policies and corresponding certificates of on behalf of the Railroad. Separate insurance policie than one Railroad Company is operating on the same Companies are involved and operate on their own set	es and certificates are required when more e right of way, or when several Railroad			
No direct compensation will be made to the Contract shown below or any deductibles. These costs are inc	-			
Escalated L	imits			
Type of Insurance	Amount of Coverage (Minimum)			
Workers Compensation \$500,000 / \$500,000 / \$500,000				
Commercial General Liability \$2,000,000 / \$4,000,000				
Business Automobile \$2,000,000				
Railroad Protective I	Liability Limits			
☐ Not Required				
<ul> <li>Non - Bridge/Typical Maintenance Projects.</li> <li>Includes repairs to overpass/underpass and culvert structures</li> </ul>	\$2,000,000 / \$6,000,000			
☐ Bridge Structure Projects. Includes new construction or replacement of overpass/ underpass structures	\$5,000,000 / \$10,000,000			
☐ Other:				

CONTRACTOR'S RIGHT OF ENTRY (CRO
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□ Not Required
☐ Required: UPRR Maintenance Consent Letter. TxDOT to assist
$\ \square$ Required: TxDOT to assist in obtaining the UPRR CROE
☑ Required: Contractor to obtain
☐ BNSF:
☑ KCS https://jllrpg.360works.com/fmi/webd/rpo_web_kcs.fmp12
☐ Other Railroads:

To view previously approved CROE templates agreed upon between the State and Railroad, see: https://www.txdot.gov/business/resources/railroad-highway-crossing/sample-right-of-entry-agreements.html

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#### IX. EMERGENCY NOTIFICATION

In Case of Railroad Emergency Call: Kansas City Southern Railroad
Railroad Emergency Line at: 877-527-9464
Location: DOT 793801G  RR Milepost: 117.500
Subdivision: Laredo

RRD Review Only

Date: 05/31/2023

Texas Department of Transportation

# RAILROAD SCOPE OF WORK PROJECT SPECIFIC DETAILS

Division

FILE: rr-scop	e-of-work.pdf	DN: TX	DOT	CK:	DW:	CK:	
© TxDOT	June 2014	CONT	SECT	JOB		HIGHWAY	
0/0000	REVISIONS	visions 0916 00 228		228	IH37, ETC		
3/2023		DIST		COUNTY	·	SHEET NO.	
		CRP	1	NUECES, I	ETC.	76	

Crossing Type: at grade on CR114  RR Company Operating Track at Crossing: Kansas City Southern Railroad  RR Company Owning Track at Crossing: Texas Mexican Railway  RR MP: ±17.900  RR Subdivision: Laredo  City: Alice  County: Jim Wells  CSJ at this Crossing: 0916-00-228  Scope of Work, including any TCP, to be performed by State Contractor:  The State's Contractor will be refreshing pavement markings and markers on the facility parallel to the railroad tracks outside of railroad ROW. Traffic control may be implemented through railroad ROW at the county road cross street. No TCP channelizers will be within railroad ROW. RR flagging to be provided for the entire duration of TCP through railroad ROW.  Scope of Work to be performed by Railroad Company:  None.  II. FLAGGING & INSPECTION  No. of Days of Railroad Flagging Expected: 1  On this project, night or weekend flagging is:  Expected  Not Expected  Not Expected  Railroad Company: TxDOT will pay flagging invoices. Flagging Agreement with Railroad will be needed  Outside Party: Contractor will pay flagging invoices to be reimbursed by TxDOT  Contractor must incorporate flaggers are to be utilized. If Contractor flags behind schedule due to their own negligence and is not ready for scheduled flaggers, any flagging charges will be paid by Contractor.  Contact Information for Flagging:  UPRR  UP.Info@railpros.com  Call Center 877-315-0513, Select #1 for flagging  UPrequest@rrssinc.net  Call Center 877-315-0513, Select #1 for flagging  BNSF  BNSFinfo@railpros.com  Call Center 877-315-0513, Select #1 for flagging  Bottom Line On-Track Safety Services  bottomilineOf@aol.com, 903-767-7630	$\square$ This proj	ect is adjacent or parallel work, not within RR ROW: 93802N
RR Company Operating Track at Crossing: Texas Mexican Railway RR Mp: 117.900  RR Mp: 117.900  City: Alice  County: Jim Wells  CSJ at this Crossing: 0916-00-228  Scope of Work, including any TCP, to be performed by State Contractor:  The State's Contractor will be refreshing pavement markings and markers on the facility parallel to the railroad tracks outside of railroad ROW. Traffic control may be implemented through railroad ROW at the country road cross street. No TCP channelizers will be within railroad ROW. RR flagging to be provided for the entire duration of TCP through railroad ROW.  Scope of Work to be performed by Railroad Company:  None.  II. FLAGGING & INSPECTION  No. of Days of Railroad Flagging Expected: 1  On this project, night or weekend flagging is:  Expected  Not Expected  Not Expected  Not Expected  Outside Party: Contractor will pay flagging invoices. Flagging Agreement with Railroad will be needed  Outside Party: Contractor will pay flagging invoices to be reimbursed by TXDOT  Contractor must incorporate flaggers into anticipated construction schedule. The Railroad requires a 30-day notice if their flaggers are to be utilized. If Contractor falls behind schedule du to their own negligence and is not ready for scheduled flaggers, any flagging charges will be paid by Contractor.  Contract Information for Flagging:  UPRR  UP.info@railpros.com Call Center 877-315-0513, Select #1 for flagging  UPrequest@nrssinc.net Call Center 877-315-0513, Select #1 for flagging  SCS (KCS Info@railpros.com Call Center 877-315-0513, Select #1 for flagging  BNSF BNSFinfo@railpros.com Call Center 877-315-0513, Select #1 for flagging  BOLTOM Line On-Track Safety Services bottomline On-Track Safety Services		
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RR MP: 117.900 RR Subdivision: Laredo City: Alice County: Jim Wells CSJ at this Crossing: 0916-00-228 Scope of Work, including any TCP, to be performed by State Contractor:  The State's Contractor will be refreshing pavement markings and markers on the facility parallel to the railroad tracks outside of railroad ROW. Traffic control may be implemented through railroad ROW at the county road cross street. No TCP channelizers will be within railroad ROW. RR flagging to be provided for the entire duration of TCP through railroad ROW.  Scope of Work to be performed by Railroad Company:  None.  II. FLAGGING & INSPECTION  No. of Days of Railroad Flagging Expected: 1 On this project, night or weekend flagging is:  Expected  Not Expected  Not Expected  Not Expected  Not Expected  Countractor must incorporate flaggers into anticipated construction schedule. The Railroad requires a 30-day notice if their flaggers are to be utilized. If Contractor falls behind schedule do to their own negligence and is not ready for scheduled flaggers, any flagging charges will be paid by Contractor.  Contact Information for Flagging:  UPRR  UPINFO@Failpros.com Call Center 877-315-0513, Select #1 for flagging UP: quest@prissinc.net Call Center 877-315-0513, Select #1 for flagging EV KCS. Info@railpros.com Call Center 877-315-0513, Select #1 for flagging Bottom Line On-Track Safety Services bottomline On-Track Safety Services bottomline On-Track Safety Services bottomline On-Frack Safety Services		
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County: Jim Wells  CSJ at this Crossing:	RR Subdivis	sion: Laredo
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No. of Days of Railroad Flagging Expected:   □ This project, night or weekend flagging is: □ Expected □ Not Expected □ Not Expected □ Railroad Company: TxDOT will pay flagging invoices. Flagging Agreement with Railroad will be needed □ Outside Party: Contractor will pay flagging invoices to be reimbursed by TxDOT □ Contractor must incorporate flaggers into anticipated construction schedule. The Railroad requires a 30-day notice if their flaggers are to be utilized. If Contractor falls behind schedule due to their own negligence and is not ready for scheduled flaggers, any flagging charges will be paid by Contractor. □ UPRR UP.info@railpros.com □ Call Center 877-315-0513, Select #1 for flagging □ UP.request@nrssinc.net □ Call Center 877-315-0513, Select #1 for flagging □ WKCS KCS.info@railpros.com □ Call Center 877-315-0513, Select #1 for flagging □ WKCS KCS.info@railpros.com □ Call Center 877-315-0513, Select #1 for flagging □ Bottom Line On-Track Safety Services □ bottomline 076@aol.com, 903-767-7630	None.	
No. of Days of Railroad Flagging Expected:  □ Con this project, night or weekend flagging is: □ Expected □ Not Expected □ Not Expected Flagging services will be provided by: □ Railroad Company: TxDOT will pay flagging invoices. Flagging Agreement with Railroad will be needed □ Outside Party: Contractor will pay flagging invoices to be reimbursed by TxDOT  Contractor must incorporate flaggers into anticipated construction schedule. The Railroad requires a 30-day notice if their flaggers are to be utilized. If Contractor falls behind schedule due to their own negligence and is not ready for scheduled flaggers, any flagging charges will be paid by Contractor.  Contact Information for Flagging: □ UPRR □ UP.info@railpros.com □ Call Center 877-315-0513, Select #1 for flagging □ UP.request@nrssinc.net □ Call Center 877-315-0513, Select #1 for flagging □ KCS □ KCS.info@railpros.com □ Call Center 877-315-0513, Select #1 for flagging □ Bottom Line On-Track Safety Services □ bottomline O76@aol.com, 903-767-7630		
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Contractor must incorporate Construction Inspectio	n into anticipated construction schedule.				
<ul><li>☑ Not Required</li><li>☑ Required. Contact Information for Construction Inspection:</li></ul>					
III. CONSTRUCTION WORK TO BE PERFOR	MED BY THE RAILROAD				
<ul><li>☐ Required. Railroad Point of Contact:</li><li>☑ Not Required</li></ul>					
Coordinate with TxDOT for any work to be performe a work order for any work done by the Railroad Com					
V. RAILROAD INSURANCE REQUIREMENT	rs				
The Contractor shall confirm the insurance requirer are subject to change without notice.	ments with the Railroad as the insurance limits				
Insurance policies and corresponding certificates on on behalf of the Railroad. Separate insurance polic than one Railroad Company is operating on the sar Companies are involved and operate on their own s	ries and certificates are required when more me right of way, or when several Railroad				
No direct compensation will be made to the Contra shown below or any deductibles. These costs are in					
Escalated	Limits				
Type of Insurance	Amount of Coverage (Minimum)				
Workers Compensation	\$500,000 / \$500,000 / \$500,000				
Commercial General Liability	\$2,000,000 / \$4,000,000				
Business Automobile	\$2,000,000				
Railroad Protective	Liability Limits				
☐ Not Required					
Non - Bridge/Typical Maintenance Projects. Includes repairs to overpass/underpass and culvert structures	\$2,000,000 / \$6,000,000				
☐ Bridge Structure Projects. Includes new construction or replacement of overpass/ underpass structures	\$5,000,000 / \$10,000,000				
□ Other:					

☐ Not Required
☐ Required: UPRR Maintenance Consent Letter. TxDOT to assist
$\ \square$ Required: TxDOT to assist in obtaining the UPRR CROE
☑ Required: Contractor to obtain
☐ BNSF:
KCS https://jllrpg.360works.com/fmi/webd/rpo_web_kcs.fmp12
☐ Other Railroads:

To view previously approved CROE templates agreed upon between the State and Railroad, see: https://www.txdot.gov/business/resources/railroad-highway-crossing/sample-right-of-entryagreements.html

Approved CROE templates are not to be modified by the Contractor.

Contractor shall not operate within Railroad Right of Way without an executed Construction & Maintenance Agreement between the State and the Railroad and an executed CROE between the Contractor and the Railroad if required on project.

#### VI. RAILROAD COORDINATION MEETING

A Railroad Coordination Meeting is required. See item 5, Article 8.1, of the Standard Specifications for Construction and Maintenance of Highways, Streets and Bridges Manual for more details.

#### VII. RAILROAD SAFETY ORIENTATION

A. Complete the Railroad's course "Orientation for Contractor's Safety," and maintain registration prior to working on the Railroad's property. This course is required to be completed annually by Contractor and Subcontractor personnel working on site.

UPRR, BNSF, KCS/TEXMEX will not accept on-track safety training certificates from other Railroads. Refer to each Railroad's specific contractor right of entry for training information.

Know and follow the Contractor's Right of Entry Agreement EXHIBIT D, MINIMUM SAFETY REQUIREMENTS regarding clothing, personal protective equipment, and general safety requirements.

#### VIII. SUBCONTRACTORS

Contractor shall not subcontract work without written consent of TxDOT. Subcontractors are subject to the same insurance requirements as the Prime Contractor.

#### IX. EMERGENCY NOTIFICATION

In Case of Railroad Emergency				
Call: Kansas City Southern Railroad				
Railroad Emergency Line at: 877-527-9464				
Location: DOT 793802N				
RR Milepost: 117.900				
Subdivision: Laredo				

**RRD Review Only** Initials: Date: 05/31/2023



Division

### **RAILROAD SCOPE OF WORK**

FILE: rr-scop	e-of-work.pdf	DN: TX	DOT	ск:	DW:	CK:	
© TxDOT	June 2014	CONT	SECT	JOB		HIGHWAY	
0/0000	REVISIONS	0916	00	228		IH3	7, ETC.
3/2023			COUNTY	COUNTY		SHEET NO.	
		CRP	N	NUECES,	ETC	D.	77

UND	ERPASS, PEDESTRIAN, OR CLOSED/ABANDONED)
☐ This propose $\frac{7}{100}$	ect is adjacent or parallel work, not within RR ROW: 93806R
Crossing Ty	pe: _at grade on S Duval St
RR Compar	ny Operating Track at Crossing: Kansas City Southern Railroad
RR Compar	y Owning Track at Crossing: Texas Mexican Railway
RR MP: 11	8.480
	sion: Laredo
City: Alice	
County: Jin	
CSJ at this	Crossing:
Scope of W	ork, including any TCP, to be performed by State Contractor:
the railroa ROW at the	s Contractor will be refreshing pavement markings and markers on the facility parallel to d tracks outside of railroad ROW. Traffic control may be implemented through railroad e cross street. No TCP channelizers will be within railroad ROW. RR flagging to be provided ire duration of TCP through railroad ROW.
Scope of W	ork to be performed by Railroad Company:
None.	
	GGING & INSPECTION  of Railroad Flagging Expected: 1
No. of Days	of Railroad Flagging Expected: 1 ect, night or weekend flagging is:
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No. of Days On this proj Expecte Not Expe Railroad needed Outside Contractor requires a 3 to their owr by Contract Contact Info UPRR	ect, night or weekend flagging is:  dected  rvices will be provided by:  Company: TxDOT will pay flagging invoices. Flagging Agreement with Railroad will be  Party: Contractor will pay flagging invoices to be reimbursed by TxDOT  must incorporate flaggers into anticipated construction schedule. The Railroad BO-day notice if their flaggers are to be utilized. If Contractor falls behind schedule due negligence and is not ready for scheduled flaggers, any flagging charges will be paid or.  Drimation for Flagging:  UP.info@railpros.com  Call Center 877-315-0513, Select #1 for flagging  UP.request@nrssinc.net  Call Center 877-315-0513, Select #1 for flagging  KCS.info@railpros.com  Call Center 877-315-0513, Select #1 for flagging  KCS.info@railpros.com  Call Center 877-315-0513, Select #1 for flagging  Bottom Line On-Track Safety Services  bottomlineO76@aol.com, 903-767-7630
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Contractor must incorporate Construction Inspection into anticipated construction schedule.  ☑ Not Required				
☐ Required. Contact Information for Construction In	spection:			
III. CONSTRUCTION WORK TO BE PERFORM	MED BY THE RAILROAD			
☐ Required. Railroad Point of Contact:  ☑ Not Required				
Coordinate with TxDOT for any work to be performed a work order for any work done by the Railroad Comp				
IV. RAILROAD INSURANCE REQUIREMENTS	5			
The Contractor shall confirm the insurance requirement are subject to change without notice.	ents with the Railroad as the insurance limits			
Insurance policies and corresponding certificates of on behalf of the Railroad. Separate insurance policie than one Railroad Company is operating on the same Companies are involved and operate on their own se	es and certificates are required when more e right of way, or when several Railroad			
No direct compensation will be made to the Contract shown below or any deductibles. These costs are inc				
Escalated L	imits			
Type of Insurance	Amount of Coverage (Minimum)			
Workers Compensation	\$500,000 / \$500,000 / \$500,000			
Commercial General Liability	\$2,000,000 / \$4,000,000			
Business Automobile	\$2,000,000			
Railroad Protective I	Liability Limits			
☐ Not Required				
<ul> <li>Non - Bridge/Typical Maintenance Projects.</li> <li>Includes repairs to overpass/underpass and culvert structures</li> </ul>	\$2,000,000 / \$6,000,000			
☐ Bridge Structure Projects. Includes new construction or replacement of overpass/ underpass structures	\$5,000,000 / \$10,000,000			
□ Other:				

□ Not Required
☐ Required: UPRR Maintenance Consent Letter. TxDOT to assist
Required: TXDOT to assist in obtaining the UPRR CROE
Required: Contractor to obtain
□ BNSF:
https://bnsf.railpermitting.com
☑ KCS
https://jllrpg.360works.com/fmi/webd/rpo_web_kcs.fmp12
☐ Other Railroads:

To view previously approved CROE templates agreed upon between the State and Railroad, see: https://www.txdot.gov/business/resources/railroad-highway-crossing/sample-right-of-entry-agreements.html

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UPRR, BNSF, KCS/TEXMEX will not accept on-track safety training certificates from other Railroads. Refer to each Railroad's specific contractor right of entry for training information.

Know and follow the Contractor's Right of Entry Agreement EXHIBIT D, MINIMUM SAFETY REQUIREMENTS regarding clothing, personal protective equipment, and general safety requirements.

#### VIII. SUBCONTRACTORS

Contractor shall not subcontract work without written consent of TxDOT. Subcontractors are subject to the same insurance requirements as the Prime Contractor.

#### IX. EMERGENCY NOTIFICATION

In Case of R	ailroad Emergency
Call: Kansas	City Southern Railroad
Railroad Eme	ergency Line at: 877-527-9464
Location: DC	793806R
RR Milepost	118.480
Subdivision:	Laredo



Rail Division

# RAILROAD SCOPE OF WORK PROJECT SPECIFIC DETAILS

and a final and

FILE: rr-scope-of-work.pdf		DN: TX	DN: TXDOT CK: DW:		DW:	CK:	
© TxDOT	June 2014	CONT	SECT	JOB		HIGHWAY	
0/0000	REVISIONS	0916	00	228	II	137, ETC.	
3/2023		DIST		COUNTY		SHEET NO.	
		CRP	l 1	NUECES, 1	ETC.	78	

RR Company Ope RR Company Owe RR Company Owe RR MP: 118.640 RR Subdivision: _ City: Alice County: Jim Wells CSJ at this Cross Scope of Work, ir  'The State's Cont the railroad track ROW at the cross for the entire dur  Scope of Work to  None.  II. FLAGGING No. of Days of Ra On this project, n  Expected Not Expected Flagging services Railroad Comp needed	t grade on S Gulf St  practing Track at Crossing: Kansas City Southern Railroad  ling Track at Crossing: Texas Mexican Railway  Laredo  Laredo  Sing: 0916-00-228  Including any TCP, to be performed by State Contractor:  Practor will be refreshing pavement markings and markers on the facility parallel to as outside of railroad ROW. Traffic control may be implemented through railroad as street. No TCP channelizers will be within railroad ROW. RR flagging to be provided ration of TCP through railroad ROW.  Be performed by Railroad Company:  Silva Reflagging Expected: 1  Ight or weekend flagging is:
RR Company Ope RR Company Own RR MP:118.640 RR Subdivision: City: _Alice County: _Jim Wells CSJ at this Cross Scope of Work, ir  'The State's Cont the railroad track ROW at the cross for the entire dur  Scope of Work to  None.  II. FLAGGING No. of Days of Ra On this project, n  Expected Not Expected Railroad Comp needed	rating Track at Crossing:     Mansas City Southern Railroad
RR Company Owr RR MP: 118.640 RR Subdivision: _ City: Alice County: Jim Wells CSJ at this Cross Scope of Work, ir 'The State's Cont the railroad track ROW at the cross for the entire dur  Scope of Work to  None.  II. FLAGGING No. of Days of Ra On this project, n  Expected Not Expected Railroad Comp needed	Laredo  Sing: 0916-00-228  Ing: 0916-00-228  Including any TCP, to be performed by State Contractor:  In actor will be refreshing pavement markings and markers on the facility parallel to to so outside of railroad ROW. Traffic control may be implemented through railroad as street. No TCP channelizers will be within railroad ROW. RR flagging to be provided ration of TCP through railroad ROW.  In the performed by Railroad Company:  Signal Repection  In the performed by Railroad Company:
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needed	
	pany: TxDOT will pay flagging invoices. Flagging Agreement with Railroad will be
	Contractor will pay flagging invoices to be reimbursed by TxDOT
requires a 30-day	incorporate flaggers into anticipated construction schedule. The Railroad or notice if their flaggers are to be utilized. If Contractor falls behind schedule due gence and is not ready for scheduled flaggers, any flagging charges will be paid
Contact Informat	ion for Flagging:
	info@railpros.com   Center 877-315-0513, Select #1 for flagging
UP.	request@nrssinc.net I Center 877-984-677
	SFinfo@railprosfs.com   Center 877-315-0513, Select #1 for flagging
	S.info@railpros.com I Center 877-315-0513, Select #1 for flagging
	tom Line On-Track Safety Services tomline076@aol.com, 903-767-7630
☐ OTHERS:	

☐ Required. Contact Information for Construction In	
III. CONSTRUCTION WORK TO BE PERFORM	MED BY THE RAILROAD
☐ Required. Railroad Point of Contact:	
☑ Not Required	
Coordinate with TxDOT for any work to be performed a work order for any work done by the Railroad Comp	
IV. RAILROAD INSURANCE REQUIREMENTS	5
The Contractor shall confirm the insurance requirem are subject to change without notice.	ents with the Railroad as the insurance
Insurance policies and corresponding certificates of on behalf of the Railroad. Separate insurance policie than one Railroad Company is operating on the same Companies are involved and operate on their own se	es and certificates are required when mo e right of way, or when several Railroad
No direct compensation will be made to the Contract shown below or any deductibles. These costs are inc	-
Escalated L	imits
Type of Insurance	Amount of Coverage (Minimum)
Workers Compensation	\$500,000 / \$500,000 / \$500,000
Commercial General Liability	\$2,000,000 / \$4,000,000
Business Automobile	\$2,000,000
Railroad Protective I	Liability Limits
☐ Not Required	
<ul> <li>Not required</li> <li>Non - Bridge/Typical Maintenance Projects.</li> <li>Includes repairs to overpass/underpass and culvert structures</li> </ul>	\$2,000,000 / \$6,000,000
☐ Bridge Structure Projects. Includes new construction or replacement of overpass/	\$5,000,000 / \$10,000,000
underpass structures	

	☐ Not Required
nformation for Construction Inspection:	$\ \square$ Required: UPRR Maintenance Consent Letter. TxDOT to assist
	$\ \square$ Required: TxDOT to assist in obtaining the UPRR CROE
	☑ Required: Contractor to obtain
	☐ BNSF:
ON WORK TO BE PERFORMED BY THE RAILROAD	KCS https://jllrpg.360works.com/fmi/webd/rpo_web_kcs.fmp12
Point of Contact:	☐ Other Railroads:
	To discount in the control of CDOF to well the control of the cont

To view previously approved CROE templates agreed upon between the State and Railroad, see: https://www.txdot.gov/business/resources/railroad-highway-crossing/sample-right-of-entryagreements.html

Approved CROE templates are not to be modified by the Contractor.

V. CONTRACTOR'S RIGHT OF ENTRY (CROE)

Contractor shall not operate within Railroad Right of Way without an executed Construction & Maintenance Agreement between the State and the Railroad and an executed CROE between the Contractor and the Railroad if required on project.

#### VI. RAILROAD COORDINATION MEETING

A Railroad Coordination Meeting is required. See item 5, Article 8.1, of the Standard Specifications for Construction and Maintenance of Highways, Streets and Bridges Manual for more details.

#### VII. RAILROAD SAFETY ORIENTATION

A. Complete the Railroad's course "Orientation for Contractor's Safety," and maintain registration prior to working on the Railroad's property. This course is required to be completed annually by Contractor and Subcontractor personnel working on site.

UPRR, BNSF, KCS/TEXMEX will not accept on-track safety training certificates from other Railroads. Refer to each Railroad's specific contractor right of entry for training information.

Know and follow the Contractor's Right of Entry Agreement EXHIBIT D, MINIMUM SAFETY  ${\tt REQUIREMENTS}\ regarding\ clothing,\ personal\ protective\ equipment,\ and\ general\ safety\ requirements.$ 

#### VIII. SUBCONTRACTORS

Contractor shall not subcontract work without written consent of TxDOT. Subcontractors are subject to the same insurance requirements as the Prime Contractor.

#### IX. EMERGENCY NOTIFICATION

	e of Railroad Emergency
Call: _	Kansas City Southern Railroad
Railroa	ad Emergency Line at: 877-527-9464
Location	on: DOT _793807X
RR Mil	lepost: _118.640
Subdiv	vision: Laredo

**RRD Review Only** Initials: Date: 05/31/2023



Division

FILE: rr-scope-of-work.pdf		DN: Tx	DOT	CK:	DW:	CK:
© TxDOT	June 2014	CONT	SECT	JOB		HIGHWAY
0/0000	REVISIONS	0916	00	228	IH	37, ETC.
3/2023		DIST		COUNTY		SHEET NO.
		CRP	1	NUECES,	ETC.	79

☐ This propute $\frac{7}{100}$	ject is adjacent or parallel work, not within RR ROW: 93808E
	pe: _at grade on N Goliad St
	ny Operating Track at Crossing: Kansas City Southern Railroad
	ny Owning Track at Crossing: Texas Mexican Railway
RR MP: 11	
RR Subdivi	sion: Laredo
City: Alice	
County: Jin	n Wells
CSJ at this	Crossing: 0916-00-228
Scope of W	ork, including any TCP, to be performed by State Contractor:
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Scope of W	ork to be performed by Railroad Company:
None.	
II. FLA	GGING & INSPECTION  s of Railroad Flagging Expected: 1
II. FLA	of Railroad Flagging Expected: 1 lect, night or weekend flagging is:
II. FLAG  No. of Days  On this pro  □ Expecte  ☑ Not Expe	s of Railroad Flagging Expected: 1 ject, night or weekend flagging is: d ected
II. FLAC  No. of Days  On this pro  □ Expecte  ☑ Not Exp  Flagging se  □ Railroad	of Railroad Flagging Expected: 1 ject, night or weekend flagging is:
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No. of Days On this pro □ Expecte ☑ Not Expe □ Railroad needed ☑ Outside Contractor requires a 3 to their owr by Contract	s of Railroad Flagging Expected:   gect, night or weekend flagging is:  dected  rvices will be provided by:  Company: TxDOT will pay flagging invoices. Flagging Agreement with Railroad will be  Party: Contractor will pay flagging invoices to be reimbursed by TxDOT  must incorporate flaggers into anticipated construction schedule. The Railroad 30-day notice if their flaggers are to be utilized. If Contractor falls behind schedule due in negligence and is not ready for scheduled flaggers, any flagging charges will be paid for.
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II. FLAM  No. of Days  On this pro  Expecte  Not Expe  Railroad needed  Outside  Contractor requires a sto their own by Contract  Contact Inf  UPRR  ■ BNSF	s of Railroad Flagging Expected:  dect, night or weekend flagging is: dected rvices will be provided by: Company: TxDOT will pay flagging invoices. Flagging Agreement with Railroad will be Party: Contractor will pay flagging invoices to be reimbursed by TxDOT must incorporate flaggers into anticipated construction schedule. The Railroad 30-day notice if their flaggers are to be utilized. If Contractor falls behind schedule due an negligence and is not ready for scheduled flaggers, any flagging charges will be paid for.  ormation for Flagging: UP.info@railpros.com Call Center 877-315-0513, Select #1 for flagging UP.request@nrssinc.net Call Center 877-984-677 BNSFinfo@railprosfs.com
II. FLAM  No. of Days  On this pro  Expecte  Not Expe  Railroad needed  Outside  Contractor requires a sto their own by Contract  Contact Inf  UPRR  ■ BNSF	s of Railroad Flagging Expected: 1 ject, night or weekend flagging is: dected rvices will be provided by: Company: TxDOT will pay flagging invoices. Flagging Agreement with Railroad will be Party: Contractor will pay flagging invoices to be reimbursed by TxDOT must incorporate flaggers into anticipated construction schedule. The Railroad 30-day notice if their flaggers are to be utilized. If Contractor falls behind schedule due in negligence and is not ready for scheduled flaggers, any flagging charges will be paid for.  ormation for Flagging: UP.info@railpros.com Call Center 877-315-0513, Select #1 for flagging UP.request@nrssinc.net Call Center 877-984-677 BNSFinfo@railprosfs.com Call Center 877-315-0513, Select #1 for flagging KCS.info@railpros.com
II. FLACE  No. of Days On this property Expecte Not Expecte Railroad needed Outside Contractor requires a sto their own by Contract	s of Railroad Flagging Expected: 1 ject, night or weekend flagging is: d d coted rvices will be provided by: Company: TxDOT will pay flagging invoices. Flagging Agreement with Railroad will be Party: Contractor will pay flagging invoices to be reimbursed by TxDOT must incorporate flaggers into anticipated construction schedule. The Railroad 30-day notice if their flaggers are to be utilized. If Contractor falls behind schedule due negligence and is not ready for scheduled flaggers, any flagging charges will be paid ior.  ormation for Flagging: UP.info@railpros.com Call Center 877-315-0513, Select #1 for flagging UP.request@nrssinc.net Call Center 877-315-0513, Select #1 for flagging KCS.info@railpros.com Call Center 877-315-0513, Select #1 for flagging KCS.info@railpros.com Call Center 877-315-0513, Select #1 for flagging Bottom Line On-Track Safety Services bottomlineO76@aol.com, 903-767-7630

Contractor must incorporate Construction Inspection	n into anticipated construction schedule.
<ul><li>Not Required</li><li>Required. Contact Information for Construction I</li></ul>	nspection:
III. CONSTRUCTION WORK TO BE PERFOR	MED BY THE RAILROAD
<ul><li>□ Required. Railroad Point of Contact:</li><li>☑ Not Required</li></ul>	
Coordinate with TxDOT for any work to be performed a work order for any work done by the Railroad Com	
IV. RAILROAD INSURANCE REQUIREMENT	s
The Contractor shall confirm the insurance requiren are subject to change without notice.	nents with the Railroad as the insurance limits
Insurance policies and corresponding certificates or on behalf of the Railroad. Separate insurance polici than one Railroad Company is operating on the sam Companies are involved and operate on their own s	es and certificates are required when more ne right of way, or when several Railroad
No direct compensation will be made to the Contract shown below or any deductibles. These costs are in	
Escalated	Limits
Type of Insurance	Amount of Coverage (Minimum)
Workers Compensation	\$500,000 / \$500,000 / \$500,000
Commercial General Liability	\$2,000,000 / \$4,000,000
Business Automobile	\$2,000,000
Dellared Destrotion	Linkilla. Limita
Railroad Protective	Liability Limits
☐ Not Required	
<ul> <li>Non - Bridge/Typical Maintenance Projects.</li> <li>Includes repairs to overpass/underpass and culvert structures</li> </ul>	\$2,000,000 / \$6,000,000
☐ Bridge Structure Projects. Includes new construction or replacement of overpass/ underpass structures	\$5,000,000 / \$10,000,000
□ Other:	

□ Not Required
□ Required: UPRR Maintenance Consent Letter. TxDOT to assist
$\ \square$ Required: TxDOT to assist in obtaining the UPRR CROE
☑ Required: Contractor to obtain
☐ BNSF:
☑ KCS https://jllrpg.360works.com/fmi/webd/rpo_web_kcs.fmp12

To view previously approved CROE templates agreed upon between the State and Railroad, see: https://www.txdot.gov/business/resources/railroad-highway-crossing/sample-right-of-entry-agreements.html

Approved CROE templates are not to be modified by the Contractor.

Contractor shall not operate within Railroad Right of Way without an executed Construction & Maintenance Agreement between the State and the Railroad and an executed CROE between the Contractor and the Railroad if required on project.

#### VI. RAILROAD COORDINATION MEETING

A Railroad Coordination Meeting is required. See item 5, Article 8.1, of the Standard Specifications for Construction and Maintenance of Highways, Streets and Bridges Manual for more details.

#### VII. RAILROAD SAFETY ORIENTATION

A. Complete the Railroad's course "Orientation for Contractor's Safety," and maintain registration prior to working on the Railroad's property. This course is required to be completed annually by Contractor and Subcontractor personnel working on site.

UPRR, BNSF, KCS/TEXMEX will not accept on-track safety training certificates from other Railroads. Refer to each Railroad's specific contractor right of entry for training information.

Know and follow the Contractor's Right of Entry Agreement EXHIBIT D, MINIMUM SAFETY REQUIREMENTS regarding clothing, personal protective equipment, and general safety requirements.

#### VIII. SUBCONTRACTORS

Contractor shall not subcontract work without written consent of TxDOT. Subcontractors are subject to the same insurance requirements as the Prime Contractor.

#### IX. EMERGENCY NOTIFICATION

In Case of Railroad Emergency	
Call: Kansas City Southern Railroad	
Railroad Emergency Line at: 877-527-9464	
Location: DOT 793808E	
RR Milepost: 118.750	
Subdivision: Laredo	

 Texas Department of Transportation

Rail Division

### RAILROAD SCOPE OF WORK

FILE: rr-scope-of-work.pdf		DN: TX	DOT	ск:	DW:	ск:
© TxDOT	June 2014	CONT	SECT	JOB		HIGHWAY
0/0000	REVISIONS	0916	00	228	IH	37, ETC.
3/2023		DIST		COUNTY		SHEET NO.
		CRP	l N	NUECES,	ETC.	80

RR Company Owning Track at Crossing: Texas Mexican Railway  RR NP:118.840  RR Subdivision: Laredo  City:Alice  County:im Wells  CSJ at this Crossing:		ect is adjacent or parallel work, not within RR ROW:
RR Company Operating Track at Crossing: Kansas City Southern Railroad RR Company Owning Track at Crossing: Texas Mexican Railway RR MP: 118.840 RR Subdivision: Laredo City: Alice County: Jim Wells CSJ at this Crossing: 0916-00-228  Scope of Work, including any TCP, to be performed by State Contractor:  The State's Contractor will be refreshing pavement markings and markers on the facility parallel to the railroad tracks outside of railroad ROW. Traffic control may be implemented through railroad ROW at the cross street. No TCP channelizers will be within railroad ROW. RR flagging to be provider for the entire duration of TCP through railroad ROW.  Scope of Work to be performed by Railroad Company:  None.  II. FLAGGING & INSPECTION  No. of Days of Railroad Flagging Expected: 1 On this project, night or weekend flagging is:  Expected  Not Expected  Not Expected  Outside Party: Contractor will pay flagging invoices. Flagging Agreement with Railroad will be needed  Outside Party: Contractor will pay flagging invoices to be reimbursed by TxDOT  Contractor must incorporate flaggers are to be utilized. If Contractor falls behind schedule dit otheir own negligence and is not ready for scheduled flaggers, any flagging charges will be paid by Contractor.  Contact Information for Flagging:  UPRR UP-info@railpros.com Call Center 877-315-0513, Select #1 for flagging  UPrequest@railpros.com Call Center 877-315-0513, Select #1 for flagging  KCS KCS. info@railpros.com Call Center 877-315-0513, Select #1 for flagging		
RR Company Owning Track at Crossing: Texas Mexican Railway  RR NP:118.840  RR Subdivision:Laredo  City:Alice  County:Im Wells  CSJ at this Crossing:0916-00-228  Scope of Work, including any TCP, to be performed by State Contractor:  The State's Contractor will be refreshing pavement markings and markers on the facility parallel to the railroad tracks outside of railroad ROW. Traffic control may be implemented through railroad ROW at the cross street. No TCP channelizers will be within railroad ROW. RR flagging to be provided for the entire duration of TCP through railroad ROW.  Scope of Work to be performed by Railroad Company:    None.		
RR MP: 118.840  RR Subdivision: Laredo City: Alice County: Jim Wells CSJ at this Crossing: 0916-00-228  Scope of Work, including any TCP, to be performed by State Contractor:  The State's Contractor will be refreshing pavement markings and markers on the facility parallel to the railroad tracks outside of railroad ROW. Traffic control may be implemented through railroad ROW at the cross street. No TCP channelizers will be within railroad ROW. RR flagging to be provider for the entire duration of TCP through railroad ROW.  Scope of Work to be performed by Railroad Company:  None.  II. FLAGGING & INSPECTION  No. of Days of Railroad Flagging Expected: 1 On this project, night or weekend flagging is: Expected  Not Expected  Not Expected  Not Expected  Outside Party: Contractor will pay flagging invoices. Flagging Agreement with Railroad will be needed  Outside Party: Contractor will pay flagging invoices to be reimbursed by TxDOT  Contractor must incorporate flaggers into anticipated construction schedule. The Railroad requires a 30-day notice if their flaggers are to be utilized. If Contractor falls behind schedule du to their own negligence and is not ready for scheduled flaggers, any flagging charges will be paid by Contractor.  Contact Information for Flagging:  UPRR UP.info@railpros.com Call Center 877-315-0513, Select #1 for flagging UPCRE BNSFinG@railpros.com Call Center 877-315-0513, Select #1 for flagging KCS KCS. info@railpros.com Call Center 877-315-0513, Select #1 for flagging		
RR Subdivision: Laredo City: Alice County: Jim Wells CSJ at this Crossing: 0916-00-228  Scope of Work, including any TCP, to be performed by State Contractor:  The State's Contractor will be refreshing pavement markings and markers on the facility parallel to the railroad tracks outside of railroad ROW. Traffic control may be implemented through railroad ROW at the cross street. No TCP channelizers will be within railroad ROW. RR flagging to be provided for the entire duration of TCP through railroad ROW.  Scope of Work to be performed by Railroad Company:  None.  II. FLAGGING & INSPECTION  No. of Days of Railroad Flagging Expected: 1 On this project, night or weekend flagging is:  Expected Not Expected  Not Expected  Not Expected  Railroad Company: TxDOT will pay flagging invoices. Flagging Agreement with Railroad will be needed  Outside Party: Contractor will pay flagging invoices to be reimbursed by TxDOT  Contractor must incorporate flaggers into anticipated construction schedule. The Railroad requires a 30-day notice if their flaggers are to be utilized. If Contractor falls behind schedule do to their own negligence and is not ready for scheduled flaggers, any flagging charges will be paid by Contractor.  Contract Information for Flagging:  UPRR  UPInfo@railpros.com Call Center 877-315-0513, Select #1 for flagging  VCS  KCS  KCS.info@railpros.com Call Center 877-315-0513, Select #1 for flagging  KCS  KCS.info@railpros.com Call Center 877-315-0513, Select #1 for flagging		
City: Alice  County: Jim Wells  CSJ at this Crossing:   0916-00-228  Scope of Work, including any TCP, to be performed by State Contractor:  The State's Contractor will be refreshing pavement markings and markers on the facility parallel to the railroad tracks outside of railroad ROW. Traffic control may be implemented through railroad ROW at the cross street. No TCP channelizers will be within railroad ROW. RR flagging to be provided for the entire duration of TCP through railroad ROW.  Scope of Work to be performed by Railroad Company:  None.  II. FLAGGING & INSPECTION  No. of Days of Railroad Flagging Expected:   On this project, night or weekend flagging is:  Expected  Not Expected  Not Expected  Outside Party: Contractor will pay flagging invoices. Flagging Agreement with Railroad will be needed  Outside Party: Contractor will pay flagging invoices to be reimbursed by TxDOT  Contractor must incorporate flaggers into anticipated construction schedule. The Railroad requires a 30-day notice if their flaggers are to be utilized. If Contractor falls behind schedule due to their own negligence and is not ready for scheduled flaggers, any flagging charges will be paid by Contractor.  Contact Information for Flagging:  UPRR UP.info@railpros.com  Call Center 877-315-0513, Select #1 for flagging  UP.request@nrssinc.net  Call Center 877-315-0513, Select #1 for flagging  Call Center 877-315-0513, Select #1 for flagging	RR MP: 118	3.840
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Bottom Line On-Track Safety Services	No. of Days On this proj Expected Not Expected Not Expected Railroad needed Outside Contractor i requires a 3 to their own by Contract Contact Info	of Railroad Flagging Expected:  ect, night or weekend flagging is: dected rvices will be provided by: Company: TxDOT will pay flagging invoices. Flagging Agreement with Railroad will be Party: Contractor will pay flagging invoices to be reimbursed by TxDOT must incorporate flaggers into anticipated construction schedule. The Railroad 80-day notice if their flaggers are to be utilized. If Contractor falls behind schedule du negligence and is not ready for scheduled flaggers, any flagging charges will be paid or.  ormation for Flagging: UP.info@railpros.com Call Center 877-315-0513, Select #1 for flagging UP.request@nrssinc.net Call Center 877-984-677 BNSFinfo@railprosfs.com
bottomline076@aol.com, 903-767-7630	No. of Days On this proj Expected Not Expected Not Expected Railroad needed Outside Contractor of requires a 3 to their own by Contract Contact Info UPRR	of Railroad Flagging Expected: 1 ect, night or weekend flagging is: dected rvices will be provided by: Company: TxDOT will pay flagging invoices. Flagging Agreement with Railroad will be Party: Contractor will pay flagging invoices to be reimbursed by TxDOT must incorporate flaggers into anticipated construction schedule. The Railroad 80-day notice if their flaggers are to be utilized. If Contractor falls behind schedule du negligence and is not ready for scheduled flaggers, any flagging charges will be paid or.  primation for Flagging: UP.info@railpros.com Call Center 877-315-0513, Select #1 for flagging UP.request@nrssinc.net Call Center 877-984-677 BNSFinfo@railprosfs.com Call Center 877-315-0513, Select #1 for flagging KCS.info@railpros.com
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III. CONSTRUCTION WORK TO BE PERFORM	MED BY THE RAILROAD
<ul><li>□ Required. Railroad Point of Contact:</li><li>☑ Not Required</li></ul>	
Coordinate with TxDOT for any work to be performed a work order for any work done by the Railroad Comp	
IV. RAILROAD INSURANCE REQUIREMENTS	3
The Contractor shall confirm the insurance requirem are subject to change without notice.	ents with the Railroad as the insurance
Insurance policies and corresponding certificates of on behalf of the Railroad. Separate insurance policie than one Railroad Company is operating on the same Companies are involved and operate on their own se	es and certificates are required when meeright of way, or when several Railroad
No direct compensation will be made to the Contract shown below or any deductibles. These costs are incompensation of the costs are incompensation of the costs are incompensation.	
Escalated L	imits
Type of Insurance	Amount of Coverage (Minimum)
Workers Compensation	\$500,000 / \$500,000 / \$500,000
Commercial General Liability	\$2,000,000 / \$4,000,000
Business Automobile	\$2,000,000
Railroad Protective I	Liability Limits
☐ Not Required	
<ul> <li>✓ Non - Bridge/Typical Maintenance Projects.</li> <li>Includes repairs to overpass/underpass and</li> </ul>	\$2,000,000 / \$6,000,00
culvert structures	\$5,000,000 / \$10,000,00
culvert structures  Bridge Structure Projects. Includes new construction or replacement of overpass/ underpass structures	
☐ Bridge Structure Projects. Includes new construction or replacement of overpass/	

V. CONTRACTOR'S RIGHT OF ENTRY (CROE)
□ Not Required
$\ \square$ Required: UPRR Maintenance Consent Letter. TxDOT to assist
$\ \square$ Required: TxDOT to assist in obtaining the UPRR CROE
☑ Required: Contractor to obtain
☐ BNSF:
✓ KCS https://illrpg.360works.com/fmi/webd/rpg.web.kcs.fmp12

To view previously approved CROE templates agreed upon between the State and Railroad, see: https://www.txdot.gov/business/resources/railroad-highway-crossing/sample-right-of-entry-

Approved CROE templates are not to be modified by the Contractor.

Contractor shall not operate within Railroad Right of Way without an executed Construction & Maintenance Agreement between the State and the Railroad and an executed CROE between the Contractor and the Railroad if required on project.

#### VI. RAILROAD COORDINATION MEETING

☐ Other Railroads:

A Railroad Coordination Meeting is required. See item 5, Article 8.1, of the Standard Specifications for Construction and Maintenance of Highways, Streets and Bridges Manual for more details.

#### **VII. RAILROAD SAFETY ORIENTATION**

A. Complete the Railroad's course "Orientation for Contractor's Safety," and maintain registration prior to working on the Railroad's property. This course is required to be completed annually by Contractor and Subcontractor personnel working on site.

UPRR, BNSF, KCS/TEXMEX will not accept on-track safety training certificates from other Railroads. Refer to each Railroad's specific contractor right of entry for training information.

Know and follow the Contractor's Right of Entry Agreement EXHIBIT D, MINIMUM SAFETY REQUIREMENTS regarding clothing, personal protective equipment, and general safety requirements.

#### VIII. SUBCONTRACTORS

Contractor shall not subcontract work without written consent of TxDOT. Subcontractors are subject to the same insurance requirements as the Prime Contractor.

#### IX. EMERGENCY NOTIFICATION

In Case of Railroad Emergency
Call: Kansas City Southern Railroad
Railroad Emergency Line at: 877-527-9464
Location: DOT 793810F
RR Milepost: 118.840
Subdivision: Laredo

**RRD Review Only** Initials: Date: 05/31/2023

1	*	
/	Texas Department of Transportation	

Division

FILE: TT-SCOP	e-of-work.pdf	DN: TX	DOT	ск:	DW:	ск:
© TxDOT	June 2014	CONT	SECT	JOB		HIGHWAY
0/0000	REVISIONS	0916	00	228	IH	37, ETC.
3/2023		DIST		COUNTY		SHEET NO.
		CRP	N	NUECES,	ETC.	81

$\Box$ This proposition This $\frac{7}{2}$	ject is adjacent or parallel work, not within RR ROW: 93811M
	pe: at grade on S Johnson St
	ny Operating Track at Crossing: Kansas City Southern Railroad
	ny Owning Track at Crossing: Texas Mexican Railway
RR MP: 11	
RR Subdivi	sion: Laredo
City: Alice	
County: <u>Jir</u>	n Wells
CSJ at this	Crossing: <u>0916-00-228</u>
Scope of W	ork, including any TCP, to be performed by State Contractor:
the railroa ROW at th	s Contractor will be refreshing pavement markings and markers on the facility parallel to d tracks outside of railroad ROW. Traffic control may be implemented through railroad e cross street. No TCP channelizers will be within railroad ROW. RR flagging to be provided ire duration of TCP through railroad ROW.
Scope of W	ork to be performed by Railroad Company:
None.	
II. FLA	GGING & INSPECTION  of Railroad Flagging Expected: 1
II. FLA	of Railroad Flagging Expected: 1 lect, night or weekend flagging is:
II. FLAG  No. of Days  On this pro  □ Expecte  ☑ Not Expe	s of Railroad Flagging Expected: 1 ject, night or weekend flagging is: d ected
II. FLAGE No. of Days On this pro □ Expecte ☑ Not Exp	of Railroad Flagging Expected: 1 lect, night or weekend flagging is:
II. FLAG  No. of Days  On this pro  □ Expecte  ☑ Not Expecte  Flagging seans  □ Railroad  needed	of Railroad Flagging Expected: 1 ject, night or weekend flagging is: dected rvices will be provided by:
II. FLAN  No. of Days  On this pro  □ Expecte  ☑ Not Exp  □ Railroad  needed  ☑ Outside  Contractor  requires a	s of Railroad Flagging Expected:   gect, night or weekend flagging is:  dected  rvices will be provided by:  Company: TxDOT will pay flagging invoices. Flagging Agreement with Railroad will be  Party: Contractor will pay flagging invoices to be reimbursed by TxDOT  must incorporate flaggers into anticipated construction schedule. The Railroad 30-day notice if their flaggers are to be utilized. If Contractor falls behind schedule due in negligence and is not ready for scheduled flaggers, any flagging charges will be paid
No. of Days On this pro □ Expecte ☑ Not Expe □ Railroad needed ☑ Outside Contractor requires a to their own	s of Railroad Flagging Expected:   gect, night or weekend flagging is:  dected  rvices will be provided by:  Company: TxDOT will pay flagging invoices. Flagging Agreement with Railroad will be  Party: Contractor will pay flagging invoices to be reimbursed by TxDOT  must incorporate flaggers into anticipated construction schedule. The Railroad 30-day notice if their flaggers are to be utilized. If Contractor falls behind schedule due in negligence and is not ready for scheduled flaggers, any flagging charges will be paid
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II. FLAC  No. of Days  On this pro  □ Expecte  ☑ Not Exp  □ Railroad needed ☑ Outside  Contractor requires a to their own by Contract  Contact Inf  □ UPRR	s of Railroad Flagging Expected:   dect, night or weekend flagging is: dected rvices will be provided by: Company: TxDOT will pay flagging invoices. Flagging Agreement with Railroad will be Party: Contractor will pay flagging invoices to be reimbursed by TxDOT must incorporate flaggers into anticipated construction schedule. The Railroad 30-day notice if their flaggers are to be utilized. If Contractor falls behind schedule due negligence and is not ready for scheduled flaggers, any flagging charges will be paid for.  ormation for Flagging: UP.info@railpros.com Call Center 877-315-0513, Select #1 for flagging UP.request@nrssinc.net
No. of Days On this pro □ Expecte ☑ Not Exp □ Railroad needed ☑ Outside Contractor requires a to their own	s of Railroad Flagging Expected:  dect, night or weekend flagging is: dected rvices will be provided by: Company: TxDOT will pay flagging invoices. Flagging Agreement with Railroad will be Party: Contractor will pay flagging invoices to be reimbursed by TxDOT must incorporate flaggers into anticipated construction schedule. The Railroad 30-day notice if their flaggers are to be utilized. If Contractor falls behind schedule due a negligence and is not ready for scheduled flaggers, any flagging charges will be paid for.  ormation for Flagging: UP.info@railpros.com Call Center 877-315-0513, Select #1 for flagging UP.request@nrssinc.net Call Center 877-984-677 BNSFinfo@railprosfs.com
No. of Days On this pro □ Expecte ☑ Not Exp □ Railroad needed ☑ Outside Contractor requires a to their own by Contract □ UPRR □ BNSF	s of Railroad Flagging Expected: 1 ject, night or weekend flagging is: d ected rvices will be provided by: Company: TxDOT will pay flagging invoices. Flagging Agreement with Railroad will be Party: Contractor will pay flagging invoices to be reimbursed by TxDOT must incorporate flaggers into anticipated construction schedule. The Railroad 30-day notice if their flaggers are to be utilized. If Contractor falls behind schedule due in negligence and is not ready for scheduled flaggers, any flagging charges will be paid for.  ormation for Flagging: UP.info@railpros.com Call Center 877-315-0513, Select #1 for flagging UP.request@nrssinc.net Call Center 877-984-677 BNSFinfo@railprosfs.com Call Center 877-315-0513, Select #1 for flagging KCS.info@railpros.com
II. FLAM  No. of Days  On this pro  Expecte  Not Exp  Railroad needed  Outside  Contractor requires a to their own by Contract  Contact Inf  UPRR  ■ BNSF	s of Railroad Flagging Expected:   glect, night or weekend flagging is:  d ected  rvices will be provided by:  Company: TxDOT will pay flagging invoices. Flagging Agreement with Railroad will be  Party: Contractor will pay flagging invoices to be reimbursed by TxDOT  must incorporate flaggers into anticipated construction schedule. The Railroad 30-day notice if their flaggers are to be utilized. If Contractor falls behind schedule due negligence and is not ready for scheduled flaggers, any flagging charges will be paid for.  ormation for Flagging:  UP.info@railpros.com  Call Center 877-315-0513, Select #1 for flagging  UP.request@nrssinc.net  Call Center 877-315-0513, Select #1 for flagging  KCS.info@railpros.com  Call Center 877-315-0513, Select #1 for flagging  KCS.info@railpros.com  Call Center 877-315-0513, Select #1 for flagging  Bottom Line On-Track Safety Services  bottomlineO76@aol.com, 903-767-7630

Contractor must incorporate Construction Inspection	into anticipated construction schedule.
<ul><li>☑ Not Required</li><li>☐ Required. Contact Information for Construction In</li></ul>	spection:
III. CONSTRUCTION WORK TO BE PERFORM	IED BY THE RAILROAD
<ul><li>□ Required. Railroad Point of Contact:</li><li>☑ Not Required</li></ul>	
Coordinate with TxDOT for any work to be performed a work order for any work done by the Railroad Comp	
IV. RAILROAD INSURANCE REQUIREMENTS	3
The Contractor shall confirm the insurance requirement are subject to change without notice.	ents with the Railroad as the insurance limits
Insurance policies and corresponding certificates of on behalf of the Railroad. Separate insurance policie than one Railroad Company is operating on the same Companies are involved and operate on their own se	es and certificates are required when more e right of way, or when several Railroad
No direct compensation will be made to the Contract shown below or any deductibles. These costs are inc	
Escalated L	imits
Type of Insurance	Amount of Coverage (Minimum)
Workers Compensation	\$500,000 / \$500,000 / \$500,000
Commercial General Liability	\$2,000,000 / \$4,000,000
Business Automobile	\$2,000,000
Railroad Protective I	Liability Limits
☐ Not Required	
<ul> <li>Non - Bridge/Typical Maintenance Projects.</li> <li>Includes repairs to overpass/underpass and culvert structures</li> </ul>	\$2,000,000 / \$6,000,000
☐ Bridge Structure Projects. Includes new construction or replacement of overpass/ underpass structures	\$5,000,000 / \$10,000,000
□ Other:	

#### V. CONTRACTOR'S RIGHT OF ENTRY (CROE)

□ Not Required
☐ Required: UPRR Maintenance Consent Letter. TxDOT to assist
☐ Required: TxDOT to assist in obtaining the UPRR CROE
☑ Required: Contractor to obtain
□ BNSF:
https://bnsf.railpermitting.com
https://bnsf.railpermitting.com  KCS https://jllrpg.360works.com/fmi/webd/rpo_web_kcs.fmp12

To view previously approved CROE templates agreed upon between the State and Railroad, see: https://www.txdot.gov/business/resources/railroad-highway-crossing/sample-right-of-entryagreements.html

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In Case of Railroad Emergency	
Call: Kansas City Southern Railroad	
Railroad Emergency Line at: 877-527-9464	
Location: DOT 793811M	
RR Milepost: 118.980	
Subdivision: Laredo	
Subulvision.	

**RRD Review Only** Initials: Date: 05/31/2023



Division

FILE: rr-scop	e-of-work.pdf	DN: TX	DOT	ск:	DW:	CK:
© TxDOT	June 2014	CONT	SECT	JOB		HIGHWAY
0/0000	REVISIONS	0916	00	228	IH	37, ETC.
3/2023		DIST		COUNTY		SHEET NO.
		CRP	1	NUECES,	ETC.	82

RR MP: 119.350  RR Subdivision: Laredo City: Alice Country: Jim Wells CSJ at this Crossing: 0916-00-228  Scope of Work, including any TCP, to be performed by State Contractor:  The State's Contractor will be refreshing pavement markings and markers on the facility parallel to the railroad tracks outside of railroad ROW. Traffic control may be implemented through railroad ROW at the cross street. No TCP channelizers will be within railroad ROW. RR flagging to be provided for the entire duration of TCP through railroad ROW.  Scope of Work to be performed by Railroad Company:  None.  II. FLAGGING & INSPECTION  No. of Days of Railroad Flagging Expected: 1 On this project, night or weekend flagging is:  Expected  Not Expected  Not Expected  Not Expected  Railroad Company: TxDOT will pay flagging invoices. Flagging Agreement with Railroad will be needed  Outside Party: Contractor will pay flagging invoices to be reimbursed by TxDOT  Contractor must incorporate flaggers into anticipated construction schedule. The Railroad requires a 30-day notice if their flaggers are to be utilized. If Contractor falls behind schedule due to their own negligence and is not ready for scheduled flaggers, any flagging charges will be paid by Contractor.  Contact Information for Flagging:  UPRR UP.info@railpros.com Call Center 877-315-0513, Select #1 for flagging UP.request@nrssinc.net Call Center 877-315-0513, Select #1 for flagging EXCS KCS.info@railpros.com Call Center 877-315-0513, Select #1 for flagging Bottom Line On-Track Safety Services bottomline 076-08-001.com, 903-767-7630	☐ This proj	ect is adjacent or parallel work, not within RR ROW:
RR Company Operating Track at Crossing:   Kansas City Southern Railroad  RR Company Owning Track at Crossing:   Texas Mexican Railway  RR Mp: 119.350  RR Subdivision: Laredo  City: Alice  County: Jim Wells  CSJ at this Crossing:   O916-00-228  Scope of Work, including any TCP, to be performed by State Contractor:  The State's Contractor will be refreshing pavement markings and markers on the facility parallel to the railroad tracks outside of railroad ROW. Traffic control may be implemented through railroad ROW at the cross street. No TCP channelizers will be within railroad ROW. RR flagging to be provided for the entire duration of TCP through railroad ROW.  Scope of Work to be performed by Railroad Company:  None.  II. FLAGGING & INSPECTION  No. of Days of Railroad Flagging Expected:   Cyperation of TCP through railroad Company:  None.  II. Flagging services will be provided by:  Expected  Not Expected  Not Expected  On this project, night or weekend flagging invoices. Flagging Agreement with Railroad will be needed  Outside Party: Contractor will pay flagging invoices to be reimbursed by TxDOT  Contractor must incorporate flaggers into anticipated construction schedule. The Railroad requires a 30-day notice if their flaggers are to be utilized. If Contractor falls behind schedule due to their own negligence and is not ready for scheduled flaggers, any flagging charges will be paid by Contractor.  Contract Information for Flagging:  UPRR  UP.info@railpros.com Call Center 877-315-0513, Select #1 for flagging UP-request@nrssinc.net Call Center 877-335-0513, Select #1 for flagging  UP.request@nrssinc.net Call Center 877-315-0513, Select #1 for flagging  EKCS  KCS. Info@railpros.com Call Center 877-315-0513, Select #1 for flagging  Dottom Line On-Track Safety Services bottomline O76@aol.com, 903-767-7630		
RR Company Owning Track at Crossing: Texas Mexican Railway  RR MP; 119.350  RR Subdivision: Laredo  City: Alice  County: Jim Wells  CSJ at this Crossing: 0916-00-228  Scope of Work, including any TCP, to be performed by State Contractor:  The State's Contractor will be refreshing pavement markings and markers on the facility parallel to the railroad tracks outside of railroad ROW. Traffic control may be implemented through railroad ROW at the cross street. No TCP channelizers will be within railroad ROW. RR flagging to be provided for the entire duration of TCP through railroad ROW.  Scope of Work to be performed by Railroad Company:  None.  II. FLAGGING & INSPECTION  No. of Days of Railroad Flagging Expected: 1  On this project, night or weekend flagging is:  Expected  Not Expected  Not Expected  Outside Party: Contractor will pay flagging invoices. Flagging Agreement with Railroad will be needed  Outside Party: Contractor will pay flagging invoices to be reimbursed by TxDOT  Contractor must incorporate flaggers are to be utilized. If Contractor falls behind schedule due to their own negligence and is not ready for scheduled flaggers, any flagging charges will be paid by Contractor.  Contract Information for Flagging:  UPRR  UP.RinGerailpros.com  Call Center 877-315-0513, Select #1 for flagging  UP-request@nrssinc.net  Call Center 877-335-0513, Select #1 for flagging  EKCS  KCS. Info@railpros.com  Call Center 877-315-0513, Select #1 for flagging  BOSS For Call Center 877-315-0513, Select #1 for flagging  BOSS CCS Info@railpros.com  Call Center 877-315-0513, Select #1 for flagging  DOT-Tack Safety Services  bottomline On-Track Safety Services		· · · <del>· · · · · · · · · · · · · · · · </del>
RR MP: 119.350  RR Subdivision: Laredo City: Alice County: _Alice  The State's Contractor will be refreshing pavement markings and markers on the facility parallel to the railroad tracks outside of railroad ROW. Traffic control may be implemented through railroad ROW at the cross street. No TCP channelizers will be within railroad ROW. RR flagging to be provided for the entire duration of TCP through railroad ROW.  Scope of Work to be performed by Railroad Company:  None.    II.   FLAGGING & INSPECTION		
RR Subdivision: Laredo City: Alice County: Jim Wells CSJ at this Crossing: 0916-00-228  Scope of Work, including any TCP, to be performed by State Contractor:  The State's Contractor will be refreshing pavement markings and markers on the facility parallel to the railroad tracks outside of railroad ROW. Traffic control may be implemented through railroad ROW at the cross street. No TCP channelizers will be within railroad ROW. RR flagging to be provided for the entire duration of TCP through railroad ROW.  Scope of Work to be performed by Railroad Company:  None.  II. FLAGGING & INSPECTION  No. of Days of Railroad Flagging Expected: 1 On this project, night or weekend flagging is: Expected  Not Expected  Not Expected  Not Expected  Railroad Company: TxDOT will pay flagging invoices. Flagging Agreement with Railroad will be needed  Outside Party: Contractor will pay flagging invoices to be reimbursed by TxDOT  Contractor must incorporate flaggers into anticipated construction schedule. The Railroad requires a 30-day notice if their flaggers are to be utilized. If Contractor falls behind schedule due to their own negligence and is not ready for scheduled flaggers, any flagging charges will be paid by Contractor.  Contact Information for Flagging:  UPRR		
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Contractor must incorporate Construction Inspection into anticipated construction schedule.
<ul><li>✓ Not Required</li><li>☐ Required. Contact Information for Construction Inspection:</li></ul>
Required. Solitate information for construction inspection.
III. CONSTRUCTION WORK TO BE PERFORMED BY THE RAILROAD
☐ Required. Railroad Point of Contact:
☑ Not Required
Coordinate with TxDOT for any work to be performed by the Railroad Company. TxDOT must issue a work order for any work done by the Railroad Company prior to the work being performed.
IV. RAILROAD INSURANCE REQUIREMENTS
The Contractor shall confirm the insurance requirements with the Railroad as the insurance limits are subject to change without notice.
Insurance policies and corresponding certificates of insurance must be issued by the contractor on behalf of the Railroad. Separate insurance policies and certificates are required when more than one Railroad Company is operating on the same right of way, or when several Railroad Companies are involved and operate on their own separate right of ways.
No direct compensation will be made to the Contractor for providing the insurance coverages shown below or any deductibles. These costs are incidental to the various bid items.
Facilities I limite

Escalated Limits				
Type of Insurance	Amount of Coverage (Minimum)			
Workers Compensation	\$500,000 / \$500,000 / \$500,000			
Commercial General Liability	\$2,000,000 / \$4,000,000			
Business Automobile	\$2,000,000			

Railroad Protective Liability Limits					
☐ Not Required					
<ul> <li>Non - Bridge/Typical Maintenance Projects.</li> <li>Includes repairs to overpass/underpass and culvert structures</li> </ul>	\$2,000,000 / \$6,000,000				
☐ Bridge Structure Projects. Includes new construction or replacement of overpass/ underpass structures	\$5,000,000 / \$10,000,000				
☐ Other:					

☐ Not Required
☐ Required: UPRR Maintenance Consent Letter. TxDOT to assist
$\ \square$ Required: TxDOT to assist in obtaining the UPRR CROE
☑ Required: Contractor to obtain
☐ BNSF:
☑ KCS https://jllrpg.360works.com/fmi/webd/rpo_web_kcs.fmp12
☐ Other Railroads:

To view previously approved CROE templates agreed upon between the State and Railroad, see: https://www.txdot.gov/business/resources/railroad-highway-crossing/sample-right-of-entry-agreements.html

Approved CROE templates are not to be modified by the Contractor.

Contractor shall not operate within Railroad Right of Way without an executed Construction & Maintenance Agreement between the State and the Railroad and an executed CROE between the Contractor and the Railroad if required on project.

#### VI. RAILROAD COORDINATION MEETING

A Railroad Coordination Meeting is required. See item 5, Article 8.1, of the Standard Specifications for Construction and Maintenance of Highways, Streets and Bridges Manual for more details.

#### VII. RAILROAD SAFETY ORIENTATION

A. Complete the Railroad's course "Orientation for Contractor's Safety," and maintain registration prior to working on the Railroad's property. This course is required to be completed annually by Contractor and Subcontractor personnel working on site.

UPRR, BNSF, KCS/TEXMEX will not accept on-track safety training certificates from other Railroads. Refer to each Railroad's specific contractor right of entry for training information.

Know and follow the Contractor's Right of Entry Agreement EXHIBIT D, MINIMUM SAFETY REQUIREMENTS regarding clothing, personal protective equipment, and general safety requirements.

#### VIII. SUBCONTRACTORS

Contractor shall not subcontract work without written consent of TxDOT. Subcontractors are subject to the same insurance requirements as the Prime Contractor.

#### IX. EMERGENCY NOTIFICATION

In Case of Railroad Emergency				
Call: Kansas City Southern Railroad				
Railroad Emergency Line at: 877-527-9464				
Location: DOT 793812U				
RR Milepost: 119.350				
Subdivision: Laredo				

RRD Review Only
Initials:

Initials: //// Date: 05/31/2023

Texas Department of Transportation

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© TxDOT	June 2014	CONT	SECT	JOB		HIGHWAY
0/0000	REVISIONS		00	228	IH	37, ETC.
3/2023		DIST		COUNTY		SHEET NO.
		CRP	NUECES, ETC.		83	

	RK AT CROSSING LOCATIONS (AT GRADE, HIGHWAY OVERPASS, HIGHWAY ERPASS, PEDESTRIAN, OR CLOSED/ABANDONED)
☐ This proj	ect is adjacent or parallel work, not within RR ROW: 93813B
Crossing Ty	pe: _at grade on S King St
RR Compan	y Operating Track at Crossing: Kansas City Southern Railroad
	y Owning Track at Crossing: <u>Texas Mexican Railway</u>
RR MP: 11	
RR Subdivis	sion: Laredo
City: Alice	
County: Jim	n Wells
CSJ at this	Crossing: <u>0916-00-228</u>
Scope of W	ork, including any TCP, to be performed by State Contractor:
the railroad	s Contractor will be refreshing pavement markings and markers on the facility parallel to d tracks outside of railroad ROW. Traffic control may be implemented through railroad e cross street. No TCP channelizers will be within railroad ROW. RR flagging to be provided ire duration of TCP through railroad ROW.
Scope of W	ork to be performed by Railroad Company:
None.	
On this proj  ☐ Expected  ☑ Not Expe	
Flagging se	rvices will be provided by:
	Company: TxDOT will pay flagging invoices. Flagging Agreement with Railroad will be
	Party: Contractor will pay flagging invoices to be reimbursed by TxDOT
requires a 3	must incorporate flaggers into anticipated construction schedule. The Railroad 80-day notice if their flaggers are to be utilized. If Contractor falls behind schedule due I negligence and is not ready for scheduled flaggers, any flagging charges will be paid or.
Contact Info	ormation for Flagging:
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	UP.request@nrssinc.net Call Center 877-984-677
□ BNSF	BNSFinfo@railprosfs.com Call Center 877-315-0513, Select #1 for flagging
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	Bottom Line On-Track Safety Services bottomline076@aol.com, 903-767-7630
□ OTHERS	:

Contractor must incorporate Construction Inspection	into anticipated construction schedule.
<ul><li>✓ Not Required</li><li>☐ Required. Contact Information for Construction Ir</li></ul>	nspection:
III. CONSTRUCTION WORK TO BE PERFORI	WED BY THE RAILROAD
Required. Railroad Point of Contact:	
☑ Not Required	
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IV. RAILROAD INSURANCE REQUIREMENTS	S
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Insurance policies and corresponding certificates of on behalf of the Railroad. Separate insurance policie than one Railroad Company is operating on the sam Companies are involved and operate on their own se	es and certificates are required when more e right of way, or when several Railroad
No direct compensation will be made to the Contract shown below or any deductibles. These costs are income to the costs are income.	
Escalated I	Limits
Type of Insurance	Amount of Coverage (Minimum)
Workers Compensation	\$500,000 / \$500,000 / \$500,000
Commercial General Liability	\$2,000,000 / \$4,000,000
Business Automobile	\$2,000,000
Railroad Protective	Liability Limits
☐ Not Required	
<ul> <li>Non - Bridge/Typical Maintenance Projects.</li> <li>Includes repairs to overpass/underpass and culvert structures</li> </ul>	\$2,000,000 / \$6,000,000
☐ Bridge Structure Projects. Includes new construction or replacement of overpass/ underpass structures	\$5,000,000 / \$10,000,000
☐ Other:	

El Net Paradical
□ Not Required
☐ Required: UPRR Maintenance Consent Letter. TxDOT to assist
$\ \square$ Required: TxDOT to assist in obtaining the UPRR CROE
☑ Required: Contractor to obtain
□ BNSF:
https://bnsf.railpermitting.com
☑ KCS
☑ KCS https://jllrpg.360works.com/fmi/webd/rpo_web_kcs.fmp12

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Location: DOT 793813B				
RR Milepost: 119.420				
Subdivision: Laredo				

RRD Review Only
Initials:

Date: 05/31/2023

Texas Department of Transportation

### **RAILROAD SCOPE OF WORK**

FILE: TT-SCOP	oe-of-work.pdf	DN: Tx	DOT	CK:	DW:	ск:
© TxDOT	June 2014	CONT	SECT	JOB		HIGHWAY
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3/2023		DIST	COUNTY			SHEET NO.
		CRP	N	IUECES,	ETC.	84

RR Company Oper RR Company Own RR MP: 119.490 RR Subdivision: L City: Alice County: Jim Wells CSJ at this Crossi Scope of Work, in The State's Contr the railroad track ROW at the cross for the entire dura  Scope of Work to None.  II. FLAGGING No. of Days of Rai On this project, ni Expected Not Expected Not Expected Flagging services Railroad Comp needed Outside Party: Contractor must is requires a 30-day	rating Track at Crossing: Kansas City Southern Railroad ing Track at Crossing: Texas Mexican Railway aredo
RR Company Oper RR Company Own RR MP: 119.490 RR Subdivision: L City: Alice County: Jim Wells CSJ at this Crossi Scope of Work, in The State's Contr the railroad track ROW at the cross for the entire dura  Scope of Work to None.  II. FLAGGING No. of Days of Rai On this project, ni Expected Not Expected Not Expected Flagging services Railroad Comp needed Outside Party: Contractor must in requires a 30-day	rating Track at Crossing: Kansas City Southern Railroad ing Track at Crossing: Texas Mexican Railway  aredo  aredo
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needed  ☑ Outside Party:  Contractor must in requires a 30-day	will be provided by:
Contractor must in requires a 30-day	any: TxDOT will pay flagging invoices. Flagging Agreement with Railroad will be
requires a 30-day	Contractor will pay flagging invoices to be reimbursed by TxDOT
by Contractor.	ncorporate flaggers into anticipated construction schedule. The Railroad r notice if their flaggers are to be utilized. If Contractor falls behind schedule due gence and is not ready for scheduled flaggers, any flagging charges will be paid
Contact Information	on for Flagging:
	nfo@railpros.com Center 877-315-0513, Select #1 for flagging
UP.r	request@nrssinc.net Center 877-984-677
	Finfo@railprosfs.com Center 877-315-0513, Select #1 for flagging
✓ KCS KCS	S.info@railpros.com Center 877-315-0513, Select #1 for flagging
	tom Line On-Track Safety Services
□ OTHERS:	omline076@aol.com, 903-767-7630

Contractor must incorporate Construction Inspection	into anticipated construction schedule.				
<ul><li>☑ Not Required</li><li>☐ Required. Contact Information for Construction Inspection:</li></ul>					
III. CONSTRUCTION WORK TO BE PERFORI	MED BY THE RAILROAD				
☐ Required. Railroad Point of Contact:					
✓ Not Required Coordinate with TxDOT for any work to be performed a work order for any work done by the Railroad Comp					
IV. RAILROAD INSURANCE REQUIREMENTS					
The Contractor shall confirm the insurance requirem are subject to change without notice.	ents with the Railroad as the insurance limits				
Insurance policies and corresponding certificates of on behalf of the Railroad. Separate insurance policie than one Railroad Company is operating on the sam Companies are involved and operate on their own see	es and certificates are required when more e right of way, or when several Railroad				
No direct compensation will be made to the Contract shown below or any deductibles. These costs are incompensation will be made to the Contract shown below or any deductibles.					
Escalated I	Limits				
Type of Insurance	Amount of Coverage (Minimum)				
Workers Compensation	\$500,000 / \$500,000 / \$500,000				
Commercial General Liability	\$2,000,000 / \$4,000,000				
Business Automobile	\$2,000,000				
Railroad Protective	Liability Limits				
☐ Not Required					
<ul> <li>Non - Bridge/Typical Maintenance Projects.</li> <li>Includes repairs to overpass/underpass and culvert structures</li> </ul>	\$2,000,000 / \$6,000,000				
☐ Bridge Structure Projects. Includes new \$5,000,000 / \$10,000,000 construction or replacement of overpass/underpass structures					
□ Other:					

□ Not Required
☐ Required: UPRR Maintenance Consent Letter. TxDOT to assist
$\ \square$ Required: TxDOT to assist in obtaining the UPRR CROE
☑ Required: Contractor to obtain
☐ BNSF:
☑ KCS  https://jllrpg.360works.com/fmi/webd/rpo_web_kcs.fmp12
☐ Other Railroads:

To view previously approved CROE templates agreed upon between the State and Railroad, see: https://www.txdot.gov/business/resources/railroad-highway-crossing/sample-right-of-entry-agreements.html

Approved CROE templates are not to be modified by the Contractor.

Contractor shall not operate within Railroad Right of Way without an executed Construction & Maintenance Agreement between the State and the Railroad and an executed CROE between the Contractor and the Railroad if required on project.

#### VI. RAILROAD COORDINATION MEETING

A Railroad Coordination Meeting is required. See item 5, Article 8.1, of the Standard Specifications for Construction and Maintenance of Highways, Streets and Bridges Manual for more details.

#### **VII. RAILROAD SAFETY ORIENTATION**

A. Complete the Railroad's course "Orientation for Contractor's Safety," and maintain registration prior to working on the Railroad's property. This course is required to be completed annually by Contractor and Subcontractor personnel working on site.

UPRR, BNSF, KCS/TEXMEX will not accept on-track safety training certificates from other Railroads. Refer to each Railroad's specific contractor right of entry for training information.

Know and follow the Contractor's Right of Entry Agreement EXHIBIT D, MINIMUM SAFETY REQUIREMENTS regarding clothing, personal protective equipment, and general safety requirements.

#### VIII. SUBCONTRACTORS

Contractor shall not subcontract work without written consent of TxDOT. Subcontractors are subject to the same insurance requirements as the Prime Contractor.

#### IX. EMERGENCY NOTIFICATION

In Case of Railroad Emergency Call: Kansas City Southern Railroad
Railroad Emergency Line at: 877-527-9464  Location: DOT 793814H
RR Milepost: 119.490
Subdivision: Laredo



Rail Division

# RAILROAD SCOPE OF WORK PROJECT SPECIFIC DETAILS

FILE: TT-SCOP	e-of-work.pdf	DN: TX	DOT	CK:	DW:	ск:	
© TxDOT	June 2014	CONT	SECT	JOB		HIGHWAY	
0/0000	REVISIONS	0916	00	228	II:	IH37, ETC.	
3/2023		DIST		COUNTY		SHEET NO.	
		CRP		NUECES	, ETC.	85	

☐ This proi	ect is adjacent or parallel work, not within RR ROW:
DOT No.: 7	
Crossing Ty	pe: at grade on Reynolds St
RR Compan	y Operating Track at Crossing: Kansas City Southern Railroad
	y Owning Track at Crossing: _Texas Mexican Railway
RR MP: 119	9.560
	ion: Laredo
City: Alice	
County: Jim	
CSJ at this	Crossing: <u>0916-00-228</u>
Scope of W	ork, including any TCP, to be performed by State Contractor:
the railroad ROW at the	Contractor will be refreshing pavement markings and markers on the facility parallel to d tracks outside of railroad ROW. Traffic control may be implemented through railroad e cross street. No TCP channelizers will be within railroad ROW. RR flagging to be provided re duration of TCP through railroad ROW.
Scope of We	ork to be performed by Railroad Company:
None.	
II. FLAG	GGING & INSPECTION
No. of Days	of Railroad Flagging Expected: 1
No. of Days On this proj	of Railroad Flagging Expected: 1 ect, night or weekend flagging is:
No. of Days On this proj □ Expected	of Railroad Flagging Expected: 1 ect, night or weekend flagging is:
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No. of Days On this proj Expected Not Expected Not Expected Railroad needed Outside Contractor requires a 3 to their own by Contract UPRR	of Railroad Flagging Expected:  ect, night or weekend flagging is: deted rvices will be provided by: Company: TxDOT will pay flagging invoices. Flagging Agreement with Railroad will be Party: Contractor will pay flagging invoices to be reimbursed by TxDOT must incorporate flaggers into anticipated construction schedule. The Railroad 80-day notice if their flaggers are to be utilized. If Contractor falls behind schedule due negligence and is not ready for scheduled flaggers, any flagging charges will be paid or.  ormation for Flagging: UP.info@railpros.com Call Center 877-315-0513, Select #1 for flagging UP.request@nrssinc.net Call Center 877-315-0513, Select #1 for flagging KCS.info@railpros.com
No. of Days On this proj Expected Not Expected Not Expected Railroad needed Outside Contractor if requires a 3 to their own by Contract Contact Info	of Railroad Flagging Expected:  ect, night or weekend flagging is:  dected  rvices will be provided by:  Company: TxDOT will pay flagging invoices. Flagging Agreement with Railroad will be  Party: Contractor will pay flagging invoices to be reimbursed by TxDOT  must incorporate flaggers into anticipated construction schedule. The Railroad 80-day notice if their flaggers are to be utilized. If Contractor falls behind schedule due negligence and is not ready for scheduled flaggers, any flagging charges will be paid for.  primation for Flagging:  UP.info@railpros.com  Call Center 877-315-0513, Select #1 for flagging  UP.request@nrssinc.net  Call Center 877-315-0513, Select #1 for flagging  KCS.info@railpros.com  Call Center 877-315-0513, Select #1 for flagging  KCS.info@railpros.com  Call Center 877-315-0513, Select #1 for flagging  Bottom Line On-Track Safety Services  bottomline O76@aol.com, 903-767-7630

Contractor must incorporate Construction Inspection	into anticipated construction schedule.				
<ul> <li>☑ Not Required</li> <li>☐ Required. Contact Information for Construction Inspection:</li> </ul>					
III. CONSTRUCTION WORK TO BE PERFORI	MED BY THE RAILROAD				
<ul> <li>□ Required. Railroad Point of Contact:</li> <li>☑ Not Required</li> </ul>					
Coordinate with TxDOT for any work to be performed a work order for any work done by the Railroad Com					
IV. RAILROAD INSURANCE REQUIREMENT	s				
The Contractor shall confirm the insurance requirem are subject to change without notice.	nents with the Railroad as the insurance limits				
Insurance policies and corresponding certificates of on behalf of the Railroad. Separate insurance polici- than one Railroad Company is operating on the sam Companies are involved and operate on their own se	es and certificates are required when more ne right of way, or when several Railroad				
No direct compensation will be made to the Contract shown below or any deductibles. These costs are in					
Escalated l	Limits				
Type of Insurance	Amount of Coverage (Minimum)				
Workers Compensation	\$500,000 / \$500,000 / \$500,000				
Commercial General Liability	\$2,000,000 / \$4,000,000				
Business Automobile	\$2,000,000				
Railroad Protective	Liability Limits				
☐ Not Required					
<ul> <li>Non - Bridge/Typical Maintenance Projects.</li> <li>Includes repairs to overpass/underpass and culvert structures</li> </ul>	\$2,000,000 / \$6,000,000				
☐ Bridge Structure Projects. Includes new \$5,000,000 / \$10,000,000 construction or replacement of overpass/ underpass structures					
□ Other:					

☐ Not Required
☐ Required: UPRR Maintenance Consent Letter. TxDOT to assist
$\ \square$ Required: TxDOT to assist in obtaining the UPRR CROE
☑ Required: Contractor to obtain
☐ BNSF:
☑ KCS https://jllrpg.360works.com/fmi/webd/rpo_web_kcs.fmp12
☐ Other Railroads:

To view previously approved CROE templates agreed upon between the State and Railroad, see: https://www.txdot.gov/business/resources/railroad-highway-crossing/sample-right-of-entry-agreements.html

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Contractor shall not operate within Railroad Right of Way without an executed Construction & Maintenance Agreement between the State and the Railroad and an executed CROE between the Contractor and the Railroad if required on project.

#### VI. RAILROAD COORDINATION MEETING

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A. Complete the Railroad's course "Orientation for Contractor's Safety," and maintain registration prior to working on the Railroad's property. This course is required to be completed annually by Contractor and Subcontractor personnel working on site.

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Know and follow the Contractor's Right of Entry Agreement EXHIBIT D, MINIMUM SAFETY REQUIREMENTS regarding clothing, personal protective equipment, and general safety requirements.

#### VIII. SUBCONTRACTORS

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#### IX. EMERGENCY NOTIFICATION

In Case of Railroad Emergency
Call: Kansas City Southern Railroad
Railroad Emergency Line at: 877-527-9464
Location: DOT 793815P
RR Milepost: 119.560
Subdivision: Laredo



Rail Division

# RAILROAD SCOPE OF WORK PROJECT SPECIFIC DETAILS

FILE: []	-scope	e-of-work.pdf	DN: Tx	DOT	ск:	DW:		ск:
© TxI	ОТ	June 2014	CONT	SECT	JOB		HIGI	HWAY
3/202	2	REVISIONS	0916	00	228	I	H37	7, ETC.
3/202	23		DIST		COUNTY			SHEET NO.
			CRP		NUECES	, ETC.		86

	ect is adjacent or parallel work, not within RR ROW:
DOT No.: _79	
	at grade on S AdamsSt
	y Operating Track at Crossing: Kansas City Southern Railroad
RR Compan RR MP: 119	y Owning Track at Crossing: <u>Texas Mexican Railway</u> 1630
RR MP: <u>++</u> RR Subdivis	
City: <u>Alice</u>	ion: Luicuo
County: Jim	Wells
	Crossing: 0916-00-228
Scope of Wo	ork, including any TCP, to be performed by State Contractor:
the railroad	Contractor will be refreshing pavement markings and markers on the facility parallel to tracks outside of railroad ROW. Traffic control may be implemented through railroad cross street. No TCP channelizers will be within railroad ROW. RR flagging to be provided re duration of TCP through railroad ROW.
Scope of Wo	ork to be performed by Railroad Company:
None.	
	GING & INSPECTION
	GING & INSPECTION
	GING & INSPECTION  of Railroad Flagging Expected: 1
No. of Days	
No. of Days On this projo ☐ Expected	of Railroad Flagging Expected: 1 ect, night or weekend flagging is:
No. of Days On this projo ☐ Expected	of Railroad Flagging Expected: 1 ect, night or weekend flagging is:
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No. of Days On this project Expected Not Expe Railroad needed Outside F Contractor r requires a 3 to their own by Contract Contact Info	of Railroad Flagging Expected: 1 ect, night or weekend flagging is: cted vices will be provided by: Company: TxDOT will pay flagging invoices. Flagging Agreement with Railroad will be Party: Contractor will pay flagging invoices to be reimbursed by TxDOT nust incorporate flaggers into anticipated construction schedule. The Railroad O-day notice if their flaggers are to be utilized. If Contractor falls behind schedule due negligence and is not ready for scheduled flaggers, any flagging charges will be paid or.
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No. of Days On this project Expected Not Expe Railroad needed Outside F Contractor r requires a 3 to their own by Contract Info	of Railroad Flagging Expected:   cet, night or weekend flagging is:  cted  vices will be provided by:  Company: TxDOT will pay flagging invoices. Flagging Agreement with Railroad will be  Party: Contractor will pay flagging invoices to be reimbursed by TxDOT  must incorporate flaggers into anticipated construction schedule. The Railroad  O-day notice if their flaggers are to be utilized. If Contractor falls behind schedule due  negligence and is not ready for scheduled flaggers, any flagging charges will be paid  or.  rmation for Flagging:  UP.info@railpros.com  Call Center 877-315-0513, Select #1 for flagging  UP.request@nrssinc.net
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No. of Days On this proje □ Expected ☑ Not Expe Flagging ser □ Railroad needed ☑ Outside If Contractor requires a 3 to their own by Contract □ UPRR □ UPRR	of Railroad Flagging Expected: 1 ect, night or weekend flagging is:  cted  vices will be provided by:  Company: TxDOT will pay flagging invoices. Flagging Agreement with Railroad will be  Party: Contractor will pay flagging invoices to be reimbursed by TxDOT  nust incorporate flaggers into anticipated construction schedule. The Railroad  0-day notice if their flaggers are to be utilized. If Contractor falls behind schedule due negligence and is not ready for scheduled flaggers, any flagging charges will be paid for.  rmation for Flagging:  UP.info@railpros.com  Call Center 877-315-0513, Select #1 for flagging  UP.request@nrssinc.net  Call Center 877-984-677  BNSFinfo@railprosfs.com  Call Center 877-315-0513, Select #1 for flagging  KCS.info@railpros.com
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ontractor must incorporate Construction In	spection into anticipated construction schedule.
Not Required Required. Contact Information for Constr	ruction Inspection:
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II. CONSTRUCTION WORK TO BE PI	ERFORMED BY THE RAILROAD
Required. Railroad Point of Contact:	
Not Required	
	erformed by the Railroad Company. TxDOT must issue and Company prior to the work being performed.
V. RAILROAD INSURANCE REQUIRE	EMENTS
he Contractor shall confirm the insurance r re subject to change without notice.	requirements with the Railroad as the insurance limits
n behalf of the Railroad. Separate insurance	cates of insurance must be issued by the contractor be policies and certificates are required when more the same right of way, or when several Railroad ir own separate right of ways.
o direct compensation will be made to the hown below or any deductibles. These cost	Contractor for providing the insurance coverages ts are incidental to the various bid items.
Esc	calated Limits
Type of Insurance	Amount of Coverage (Minimum)
Workers Compensation	\$500,000 / \$500,000 / \$500,000
Commercial General Liability	\$2,000,000 / \$4,000,000
Business Automobile	\$2,000,000

Railroad Protective Liability Limits					
☐ Not Required					
<ul> <li>Non - Bridge/Typical Maintenance Projects.</li> <li>Includes repairs to overpass/underpass and culvert structures</li> </ul>	\$2,000,000 / \$6,000,000				
☐ Bridge Structure Projects. Includes new construction or replacement of overpass/ underpass structures	\$5,000,000 / \$10,000,000				
□ Other:					

□ Not Required
☐ Required: UPRR Maintenance Consent Letter. TxDOT to assist
$\ \square$ Required: TxDOT to assist in obtaining the UPRR CROE
☑ Required: Contractor to obtain
☐ BNSF:
☑ KCS https://jllrpg.360works.com/fmi/webd/rpo_web_kcs.fmp12
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Railroad Emergency Line at: 877-527-9464	
Location: DOT 793816W	
RR Milepost: 119.630	
Subdivision: Laredo	

**RRD Review Only** Initials: Date: 05/31/2023



Division

FILE: rr-scope-of-work.pdf	DN: TX	DOT	ск:	DW:		ск:
© TxDOT June 2014	CONT	SECT	JOB		HIG	HWAY

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	ject is adjacent or parallel work, not within RR ROW:
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	pe: at grade on S Almond St
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	ny Owning Track at Crossing: Texas Mexican Railway
RR MP: <u>11</u>	
	Sion: Laredo
City: Alice County: Jin	n Wells
	Crossing: 0916-00-228
Scope of w	ork, including any TCP, to be performed by State Contractor:
the railroa ROW at th	s Contractor will be refreshing pavement markings and markers on the facility parallel to d tracks outside of railroad ROW. Traffic control may be implemented through railroad e cross street. No TCP channelizers will be within railroad ROW. RR flagging to be provided ire duration of TCP through railroad ROW.
Scope of W	ork to be performed by Railroad Company:
None.	
II. FLA	GGING & INSPECTION  of Railroad Flagging Expected: 1
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Contractor must incorporate Construction Inspection	into anticipated construction schedule.		
<ul><li>☑ Not Required</li><li>☐ Required. Contact Information for Construction Ir</li></ul>	nspection:		
III. CONSTRUCTION WORK TO BE PERFORM	MED BY THE RAILROAD		
<ul><li>□ Required. Railroad Point of Contact:</li><li>☑ Not Required</li></ul>			
Coordinate with TxDOT for any work to be performed a work order for any work done by the Railroad Comp			
IV. RAILROAD INSURANCE REQUIREMENTS	S		
The Contractor shall confirm the insurance requirem are subject to change without notice.	ents with the Railroad as the insurance limits		
Insurance policies and corresponding certificates of on behalf of the Railroad. Separate insurance policie than one Railroad Company is operating on the sam Companies are involved and operate on their own se	es and certificates are required when more e right of way, or when several Railroad		
No direct compensation will be made to the Contrac shown below or any deductibles. These costs are inc	-		
Escalated I	Limits		
Type of Insurance	Amount of Coverage (Minimum)		
Workers Compensation	\$500,000 / \$500,000 / \$500,000		
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Business Automobile	\$2,000,000		
Railroad Protective	Liability Limits		
☐ Not Required			
<ul> <li>✓ Non - Bridge/Typical Maintenance Projects.         Includes repairs to overpass/underpass and culvert structures     </li> </ul>	\$2,000,000 / \$6,000,000		
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□ Other:			

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☐ Required: UPRR Maintenance Consent Letter. TxDOT to assist
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□ BNSF:
https://bnsf.railpermitting.com
☑ KCS
https://jllrpg.360works.com/fmi/webd/rpo_web_kcs.fmp12

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Railroad Emergency Line at: 877-527-9464	
Location: DOT 793817D	
RR Milepost: 119.700	
Subdivision: Laredo	



Rail Division

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	ect is adjacent or parallel work, not within RR ROW:
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0 ,	pe: at grade on Cameron St
	ny Operating Track at Crossing: Kansas City Southern Railroad
	ny Owning Track at Crossing: Texas Mexican Railway
RR MP: 11	
	sion: Laredo
City: <u>Alice</u> County: ^{Jin}	n Wolle
	Crossing: 0916-00-228
Scope of W	ork, including any TCP, to be performed by State Contractor:
the railroa ROW at the	s Contractor will be refreshing pavement markings and markers on the facility parallel to d tracks outside of railroad ROW. Traffic control may be implemented through railroad e cross street. No TCP channelizers will be within railroad ROW. RR flagging to be provided ire duration of TCP through railroad ROW.
Scope of W	ork to be performed by Railroad Company:
None.	
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No direct compensation will be made to the Contract shown below or any deductibles. These costs are incompensation will be made to the Contract shown below or any deductibles.					
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Type of Insurance	Amount of Coverage (Minimum)				
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Know and follow the Contractor's Right of Entry Agreement EXHIBIT D, MINIMUM SAFETY REQUIREMENTS regarding clothing, personal protective equipment, and general safety requirements.

#### VIII. SUBCONTRACTORS

Contractor shall not subcontract work without written consent of TxDOT. Subcontractors are subject to the same insurance requirements as the Prime Contractor.

#### IX. EMERGENCY NOTIFICATION

In Case of Railroad Emergency	
Call: Kansas City Southern Railroad	
Railroad Emergency Line at: 877-527-9464	
Location: DOT 793818K	
RR Milepost: 119.770	
Subdivision: Laredo	



Rail Division

# RAILROAD SCOPE OF WORK PROJECT SPECIFIC DETAILS

FILE: rr-scop	e-of-work.pdf	DN: Tx	DOT	ск:	DW:		ск:
© TxDOT	June 2014	CONT	SECT	JOB		н	IGHWAY
3/2023	REVISIONS	"+#(	""	\$\$*		;: (	%) ł 7F5ž
3/2023							

@G757El7F5ž

	RK AT CROSSING LOCATIONS (AT GRADE, HIGHWAY OVERPASS, HIGHWAY DERPASS, PEDESTRIAN, OR CLOSED/ABANDONED)
☐ This pro	oject is adjacent or parallel work, not within RR ROW: 793819S
Crossing T	ype: at grade on SH 44
RR Compa	ny Operating Track at Crossing: Kansas City Southern Railroad
	ny Owning Track at Crossing: Texas Mexican Railway
RR MP: _11	
RR Subdivi	sion: Laredo
City: Alice	
County: Jii	m Wells
CSJ at this	Crossing: 0916-00-228
Scope of V	Vork, including any TCP, to be performed by State Contractor:
within Rai	's Contractor will be refreshing pavement markings and markers up to the Railroad Tracks Iroad Right of Way. Any and all pavement markings placed will be to standard. Traffic berations will be implemented through railroad ROW. No TCP signs or channelizers will be road ROW. RR flagging to be provided for entire duration of TCP through railroad ROW.
Scope of V	Vork to be performed by Railroad Company:
None	
	GGING & INSPECTION s of Railroad Flagging Expected: 1
	oject, night or weekend flagging is:
☐ Expecte	
✓ Not Exp	
Flagging se	ervices will be provided by:
	d Company: TxDOT will pay flagging invoices. Flagging Agreement with Railroad will be
needed  ✓ Outside	Party: Contractor will pay flagging invoices to be reimbursed by TxDOT
requires a	must incorporate flaggers into anticipated construction schedule. The Railroad 30-day notice if their flaggers are to be utilized. If Contractor falls behind schedule due n negligence and is not ready for scheduled flaggers, any flagging charges will be paid tor.
Contact In	formation for Flagging:
□ UPRR	UP.info@railpros.com Call Center 877-315-0513, Select #1 for flagging
	UP.request@nrssinc.net Call Center 877-984-677
□ BNSF	BNSFinfo@railprosfs.com Call Center 877-315-0513, Select #1 for flagging
✓ KCS	KCS.info@railpros.com Call Center 877-315-0513, Select #1 for flagging
	Bottom Line On-Track Safety Services bottomline076@aol.com, 903-767-7630
□ OTHERS	5:

Contractor must incorporate Construction Inspection  ✓ Not Required				
☐ Required. Contact Information for Construction In	spection.			
III. CONSTRUCTION WORK TO BE PERFORM	MED BY THE RAILROAD			
<ul> <li>□ Required. Railroad Point of Contact:</li> <li>☑ Not Required</li> </ul>				
Coordinate with TxDOT for any work to be performed a work order for any work done by the Railroad Comp				
IV. RAILROAD INSURANCE REQUIREMENTS	3			
The Contractor shall confirm the insurance requirement are subject to change without notice.  Insurance policies and corresponding certificates of an head of the Pailroad. Separate insurance policies.	insurance must be issued by the contractor			
on behalf of the Railroad. Separate insurance policie than one Railroad Company is operating on the same Companies are involved and operate on their own se	e right of way, or when several Railroad			
No direct compensation will be made to the Contract shown below or any deductibles. These costs are inc				
Escalated L	imits			
Type of Insurance	Amount of Coverage (Minimum)			
Workers Compensation	\$500,000 / \$500,000 / \$500,000			
Commercial General Liability	\$2,000,000 / \$4,000,000			
Business Automobile \$2,000,000				
Railroad Protective I	Liability Limits			
E Nu Burning				
<ul> <li>Not Required</li> <li>✓ Non - Bridge/Typical Maintenance Projects.</li> <li>Includes repairs to overpass/underpass and culvert structures</li> </ul>	\$2,000,000 / \$6,000,000			
☐ Bridge Structure Projects. Includes new construction or replacement of overpass/ underpass structures	\$5,000,000 / \$10,000,000			
□ Other:				

□ Not Required
$\ \square$ Required: UPRR Maintenance Consent Letter. TxDOT to assist
$\square$ Required: TxDOT to assist in obtaining the UPRR CROE
☑ Required: Contractor to obtain
☐ BNSF:https://bnsf.railpermitting.com
☑ KCS https://jllrpg.360works.com/fmi/webd/rpo_web_kcs.fmp12
☐ Other Railroads:

To view previously approved CROE templates agreed upon between the State and Railroad, see: https://www.txdot.gov/business/resources/railroad-highway-crossing/sample-right-of-entryagreements.html

Approved CROE templates are not to be modified by the Contractor.

Contractor shall not operate within Railroad Right of Way without an executed Construction & Maintenance Agreement between the State and the Railroad and an executed CROE between the Contractor and the Railroad if required on project.

#### VI. RAILROAD COORDINATION MEETING

A Railroad Coordination Meeting is required. See item 5, Article 8.1, of the Standard Specifications for Construction and Maintenance of Highways, Streets and Bridges Manual for more details.

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A. Complete the Railroad's course "Orientation for Contractor's Safety," and maintain registration prior to working on the Railroad's property. This course is required to be completed annually by Contractor and Subcontractor personnel working on site.

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#### IX. EMERGENCY NOTIFICATION

**RRD Review Only** Initials: Date: 05/31/2023



Division

FILE: rr-scop	e-of-work.pdf	DN: Tx	DOT	CK: DW:		: ск:	
© TxDOT	June 2014	CONT	NT SECT JOB HIGHW		IGHWAY		
3/2023	REVISIONS	0916	00	228		IH	37, ETC.
3/2023		DIST		COUNTY			SHEET NO.
		CRP		NUECES	S, E	TC.	90

RR Company Owning TRR MP: 120.070  RR Subdivision: Lared City: Alice  County: Jim Wells  CSJ at this Crossing: Scope of Work, includ  The State's Contractor the railroad tracks out ROW at the cross stre for the entire duration  Scope of Work to be p  None  II. FLAGGING & I  No. of Days of Railroad On this project, night of Expected  Not Expected  Not Expected  Not Expected  Railroad Company: needed  Outside Party: Contractor must incorrequires a 30-day notito their own negligence by Contractor.  Contact Information for Call Cenucles Call Cenu	g Track at Crossing: Kansas City Southern Railroad  Texas Mexican Railway  Texas Mexican Ra
RR Company Operation RR Company Owning T RR MP: 120.070  RR Subdivision: Lared City: Alice County: Jim Wells CSJ at this Crossing: Scope of Work, includ  The State's Contractor the railroad tracks out ROW at the cross stre for the entire duration  Scope of Work to be p  None  II. FLAGGING & I  No. of Days of Railroad On this project, night of Expected  Not Expected  Not Expected Railroad Company: needed Coutside Party: Contractor must incor requires a 30-day noti to their own negligence by Contractor.  Contact Information for Call Cen UP.reque Call Cen  BNSF BNSFinfo	g Track at Crossing:  Mansas City Southern Railroad  Texas Mexican Railway  Texas Mexican R
RR Company Owning TRR MP: 120.070  RR Subdivision: Lared City: Alice  County: Jim Wells  CSJ at this Crossing: Scope of Work, includ  The State's Contractor the railroad tracks out ROW at the cross stre for the entire duration  Scope of Work to be p  None  II. FLAGGING & I  No. of Days of Railroad On this project, night of Expected  Not Expected  Not Expected  Not Expected  Railroad Company: needed  Outside Party: Contractor must incorrequires a 30-day notito their own negligence by Contractor.  Contract Information for Call Cenucal Cen	Track at Crossing: Texas Mexican Railway  do  0916-00-228  ing any TCP, to be performed by State Contractor:  r will be refreshing pavement markings and markers on the facility parallel to tside of railroad ROW. Traffic control may be implemented through railroad et. No TCP channelizers will be within railroad ROW. RR flagging to be provided of TCP through railroad ROW.  Derformed by Railroad Company:  INSPECTION  d Flagging Expected: 1
RR MP: 120.070  RR Subdivision: Lared City: Alice  County: Jim Wells  CSJ at this Crossing: Scope of Work, includ  The State's Contractor the railroad tracks out ROW at the cross stree for the entire duration  Scope of Work to be possible.  No. of Days of Railroad On this project, night of Expected  Not Expected  Not Expected  Railroad Company: needed  Outside Party: Contractor must incorrequires a 30-day notified to their own negligence by Contractor.  Contact Information for Call Centractor.  UPRR UP.info@Call Centractor.  BNSF BNSFinfo	ing any TCP, to be performed by State Contractor:  r will be refreshing pavement markings and markers on the facility parallel to tside of railroad ROW. Traffic control may be implemented through railroad et. No TCP channelizers will be within railroad ROW. RR flagging to be provided of TCP through railroad ROW.  Deerformed by Railroad Company:  INSPECTION  d Flagging Expected: 1
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City: Alice County: Jim Wells CSJ at this Crossing: CSJ at this Crossing: CSJ at this Crossing: CSCope of Work, includ The State's Contractor the railroad tracks out ROW at the cross stree for the entire duration  Scope of Work to be possible.  Scope of Work to be possible.  Scope of Work to be possible.  None  II. FLAGGING & I  None  III. FLAG	ing any TCP, to be performed by State Contractor:  r will be refreshing pavement markings and markers on the facility parallel to tside of railroad ROW. Traffic control may be implemented through railroad et. No TCP channelizers will be within railroad ROW. RR flagging to be provided of TCP through railroad ROW.  performed by Railroad Company:  INSPECTION  d Flagging Expected:   1
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the railroad tracks out ROW at the cross stre for the entire duration  Scope of Work to be p  None  II. FLAGGING & I  No. of Days of Railroad On this project, night of Expected  Not Expected  Not Expected  Railroad Company: needed  Outside Party: Con Contractor must incorrequires a 30-day notito their own negligence by Contractor.  Contact Information for Call Cen UP.reque Call Cen BNSF BNSFinfo	tside of railroad ROW. Traffic control may be implemented through railroad et. No TCP channelizers will be within railroad ROW. RR flagging to be provided of TCP through railroad ROW.  Deerformed by Railroad Company:  INSPECTION  d Flagging Expected: 1
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Flagging services will  Railroad Company: needed  Outside Party: Con  Contractor must incor requires a 30-day noti to their own negligenc by Contractor.  Contact Information fo Call Cen UP.reque Call Cen  BNSF BNSFinfo	
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Contractor must incor requires a 30-day noti to their own negligence by Contractor.  Contact Information for Call Cen  UP.requence Call Cen  BNSF BNSFinfo	The first in pay independ involved in agents regression with reduced in the
requires a 30-day noti to their own negligenc by Contractor.  Contact Information fo  UPRR UP.info@ Call Cen UP.reque Call Cen	tractor will pay flagging invoices to be reimbursed by TxDOT
UPRR UP.info@Call Cen UP.reque Call Cen BNSF BNSFinfo	porate flaggers into anticipated construction schedule. The Railroad ice if their flaggers are to be utilized. If Contractor falls behind schedule due e and is not ready for scheduled flaggers, any flagging charges will be paid
UPRR UP.info@Call Cen UP.reque Call Cen BNSF BNSFinfo	or Flagging:
UP.reque Call Cen  BNSF BNSFinfe	Prailpros.com ter 877-315-0513, Select #1 for flagging
□ <b>BNSF</b> BNSFinf	est@nrssinc.net ter 877-984-677
0 0 11	o@railprosfs.com ter 877-315-0513, Select #1 for flagging
	p@railpros.com ter 877-315-0513, Select #1 for flagging
Bottom	Line On-Track Safety Services ne076@aol.com, 903-767-7630
□ OTHERS:	

Contractor must incorporate Construction Inspection	into anticipated construction schedule.		
<ul><li>☑ Not Required</li><li>☐ Required. Contact Information for Construction In</li></ul>	spection:		
III. CONSTRUCTION WORK TO BE PERFORM	MED BY THE RAILROAD		
☐ Required. Railroad Point of Contact:  ☑ Not Required			
Coordinate with TxDOT for any work to be performed a work order for any work done by the Railroad Comp			
IV. RAILROAD INSURANCE REQUIREMENTS	3		
The Contractor shall confirm the insurance requiremare subject to change without notice.	ents with the Railroad as the insurance limits		
Insurance policies and corresponding certificates of on behalf of the Railroad. Separate insurance policie than one Railroad Company is operating on the same Companies are involved and operate on their own se	es and certificates are required when more e right of way, or when several Railroad		
No direct compensation will be made to the Contract shown below or any deductibles. These costs are inc			
Escalated L	imits		
Type of Insurance	Amount of Coverage (Minimum)		
Workers Compensation	\$500,000 / \$500,000 / \$500,000		
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Railroad Protective I	Liability Limits		
☐ Not Required			
<ul> <li>Non - Bridge/Typical Maintenance Projects.</li> <li>Includes repairs to overpass/underpass and culvert structures</li> </ul>	\$2,000,000 / \$6,000,000		
☐ Bridge Structure Projects. Includes new construction or replacement of overpass/ underpass structures	\$5,000,000 / \$10,000,000		
Other:			

☐ Not Required
$\ \square$ Required: UPRR Maintenance Consent Letter. TxDOT to assist
$\ \square$ Required: TxDOT to assist in obtaining the UPRR CROE
☑ Required: Contractor to obtain
☐ BNSF:
☑ KCS
https://jllrpg.360works.com/fmi/webd/rpo_web_kcs.fmp12

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Location: DOT 793821T					
RR Milepost: 120.070					
Subdivision: Laredo					

**RRD Review Only** Initials: Date: 05/31/2023 Texas Department of Transportation

Division

FILE: rr-scope-of-work.	pdf pn	: Tx[	DOT	ск:	DW:		ск:
© TxDOT June 20:	<b>14</b> c	ONT	SECT	JOB HIGH		HWAY	
REVISIONS	UC	916	00	228 IH37		7 FTC	

E: rr-scop	e-of-work.pdf	DN: Tx	DOT	CK:	DW:	ск:	
TxDOT	June 2014	CONT	SECT	JOB		HIGHWAY	
(0000	REVISIONS	0916	00	228	I	H3′	7, ETC.
/2023		DIST		COUNTY			SHEET NO.
		CRP		NUECES	S. ETC.	П	+#

☐ This proj	ect is adjacent or parallel work, not within RR ROW:
DOT No.: <u>7</u>	
	pe: _railroad under US 181 (closed-tracks removed)
	y Operating Track at Crossing: Union Pacific Railroad Company
	y Owning Track at Crossing: Union Pacific Railroad Company
RR MP: <u>63</u>	
	Sion: Corpus Christi
City: Kened	
County: Ka	Crossing: 0916-00-228
CSJ at this	Crossing:
Scope of W	ork, including any TCP, to be performed by State Contractor:
Way on the	s Contractor will be refreshing pavement markings and markers through Railroad Right of a facility that carries traffic above where tracks have been removed. Any and all pavement blaced will be to standard. TCP signs and/or channelizers will be within railroad ROW.
Scope of W	ork to be performed by Railroad Company:
None	
II. FLAC	GGING & INSPECTION  of Railroad Flagging Expected: 0
II. FLAC	of Railroad Flagging Expected: 0 ect, night or weekend flagging is:
II. FLAC  No. of Days  On this proj  □ Expected  ☑ Not Expect	of Railroad Flagging Expected: 0 ect, night or weekend flagging is:
II. FLAC No. of Days On this proj □ Expected ☑ Not Expe Flagging se	of Railroad Flagging Expected: 0 ect, night or weekend flagging is: dected
II. FLAC  No. of Days  On this proj  Expected  Not Expect  Flagging se  Railroad  needed	of Railroad Flagging Expected: 0 ect, night or weekend flagging is: dected rvices will be provided by:
II. FLAC  No. of Days  On this proj  Expecter  ✓ Not Expe  Flagging se  ☐ Railroad needed  ✓ Outside  Contractor requires a 3	of Railroad Flagging Expected: 0 ect, night or weekend flagging is: dected rvices will be provided by: Company: TxDOT will pay flagging invoices. Flagging Agreement with Railroad will be Party: Contractor will pay flagging invoices to be reimbursed by TxDOT must incorporate flaggers into anticipated construction schedule. The Railroad 80-day notice if their flaggers are to be utilized. If Contractor falls behind schedule due in negligence and is not ready for scheduled flaggers, any flagging charges will be paid
II. FLAC  No. of Days  On this proj  Expected  Not Expe  Railroad needed  Outside  Contractor requires a 3 to their owr by Contract	of Railroad Flagging Expected: 0 ect, night or weekend flagging is: dected rvices will be provided by: Company: TxDOT will pay flagging invoices. Flagging Agreement with Railroad will be Party: Contractor will pay flagging invoices to be reimbursed by TxDOT must incorporate flaggers into anticipated construction schedule. The Railroad 80-day notice if their flaggers are to be utilized. If Contractor falls behind schedule due in negligence and is not ready for scheduled flaggers, any flagging charges will be paid
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II. FLAC  No. of Days  On this proj  Expecter  ✓ Not Expe  Flagging se  ☐ Railroad needed  ✓ Outside  Contractor requires a 3 to their owr by Contract  Contact Infe	of Railroad Flagging Expected: 0 ect, night or weekend flagging is: dected rvices will be provided by: Company: TxDOT will pay flagging invoices. Flagging Agreement with Railroad will be Party: Contractor will pay flagging invoices to be reimbursed by TxDOT must incorporate flaggers into anticipated construction schedule. The Railroad 80-day notice if their flaggers are to be utilized. If Contractor falls behind schedule due a negligence and is not ready for scheduled flaggers, any flagging charges will be paid or.  prmation for Flagging: UP.info@railpros.com
II. FLAC  No. of Days  On this proj  Expecter  ✓ Not Expe  Flagging se  ☐ Railroad needed  ✓ Outside  Contractor requires a 3 to their owr by Contract  Contact Infe	of Railroad Flagging Expected: 0 ect, night or weekend flagging is: d ected rvices will be provided by: Company: TxDOT will pay flagging invoices. Flagging Agreement with Railroad will be Party: Contractor will pay flagging invoices to be reimbursed by TxDOT must incorporate flaggers into anticipated construction schedule. The Railroad 80-day notice if their flaggers are to be utilized. If Contractor falls behind schedule due in negligence and is not ready for scheduled flaggers, any flagging charges will be paid or.  primation for Flagging: UP.info@railpros.com Call Center 877-315-0513, Select #1 for flagging UP.request@nrssinc.net
II. FLAC  No. of Days  On this proj  Expected  Not Expected  Not Expected  Railroad needed  Outside  Contractor requires a 3 to their own by Contract  Contact Info	of Railroad Flagging Expected: 0 ect, night or weekend flagging is: dected rvices will be provided by: Company: TxDOT will pay flagging invoices. Flagging Agreement with Railroad will be Party: Contractor will pay flagging invoices to be reimbursed by TxDOT must incorporate flaggers into anticipated construction schedule. The Railroad 80-day notice if their flaggers are to be utilized. If Contractor falls behind schedule due in negligence and is not ready for scheduled flaggers, any flagging charges will be paid or.  primation for Flagging: UP.info@railpros.com Call Center 877-315-0513, Select #1 for flagging UP.request@nrssinc.net Call Center 877-984-677 BNSFinfo@railprosfs.com
II. FLAC  No. of Days  On this proj  Expected  Not Expected  Not Expected  Railroad needed  Outside  Contractor requires a 3 to their owr by Contract  Contact Info  UPRR  ■ BNSF	of Railroad Flagging Expected: 0 ect, night or weekend flagging is: dected rvices will be provided by: Company: TxDOT will pay flagging invoices. Flagging Agreement with Railroad will be Party: Contractor will pay flagging invoices to be reimbursed by TxDOT must incorporate flaggers into anticipated construction schedule. The Railroad 80-day notice if their flaggers are to be utilized. If Contractor falls behind schedule due in negligence and is not ready for scheduled flaggers, any flagging charges will be paid or.  primation for Flagging: UP.info@railpros.com Call Center 877-315-0513, Select #1 for flagging UP.request@nrssinc.net Call Center 877-984-677 BNSFinfo@railprosfs.com Call Center 877-315-0513, Select #1 for flagging KCS.info@railpros.com
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Contractor must incorporate Construction Inspection into anticipated construction schedule.				
<ul> <li>☑ Not Required</li> <li>☐ Required. Contact Information for Construction Inspection:</li> </ul>				
III. CONSTRUCTION WORK TO BE PERFOR	MED BY THE RAILROAD			
<ul><li>□ Required. Railroad Point of Contact:</li><li>□ Not Required</li></ul>				
Coordinate with TxDOT for any work to be performed a work order for any work done by the Railroad Com				
IV. RAILROAD INSURANCE REQUIREMENT	s			
The Contractor shall confirm the insurance requirem are subject to change without notice.	nents with the Railroad as the insurance limits			
Insurance policies and corresponding certificates of on behalf of the Railroad. Separate insurance polici than one Railroad Company is operating on the sam Companies are involved and operate on their own so	es and certificates are required when more ne right of way, or when several Railroad			
No direct compensation will be made to the Contract shown below or any deductibles. These costs are in				
Escalated	Limits			
Type of Insurance	Amount of Coverage (Minimum)			
Workers Compensation	\$500,000 / \$500,000 / \$500,000			
Commercial General Liability	\$2,000,000 / \$4,000,000			
Business Automobile	\$2,000,000			
Railroad Protective	Liability Limits			
☐ Not Required				
<ul> <li>Non - Bridge/Typical Maintenance Projects.</li> <li>Includes repairs to overpass/underpass and culvert structures</li> </ul>	\$2,000,000 / \$6,000,000			
<ul> <li>□ Bridge Structure Projects. Includes new construction or replacement of overpass/ underpass structures</li> <li>□ Other:</li> </ul>	\$5,000,000 / \$10,000,000			

☐ Not Required
☑ Required: UPRR Maintenance Consent Letter. TxDOT to assist
$\square$ Required: TxDOT to assist in obtaining the UPRR CROE
☐ Required: Contractor to obtain
☐ BNSF:
☐ KCS https://jllrpg.360works.com/fmi/webd/rpo_web_kcs.fmp12
☐ Other Railroads:

To view previously approved CROE templates agreed upon between the State and Railroad, see: https://www.txdot.gov/business/resources/railroad-highway-crossing/sample-right-of-entry-agreements.html

Approved CROE templates are not to be modified by the Contractor.

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#### VII. RAILROAD SAFETY ORIENTATION

A. Complete the Railroad's course "Orientation for Contractor's Safety," and maintain registration prior to working on the Railroad's property. This course is required to be completed annually by Contractor and Subcontractor personnel working on site.

UPRR, BNSF, KCS/TEXMEX will not accept on-track safety training certificates from other Railroads. Refer to each Railroad's specific contractor right of entry for training information.

Know and follow the Contractor's Right of Entry Agreement EXHIBIT D, MINIMUM SAFETY REQUIREMENTS regarding clothing, personal protective equipment, and general safety requirements.

#### VIII. SUBCONTRACTORS

Contractor shall not subcontract work without written consent of TxDOT. Subcontractors are subject to the same insurance requirements as the Prime Contractor.

#### IX. EMERGENCY NOTIFICATION

In Case of Railroad Emergency					
Call: Union Pacific Railroad Company					
Railroad Emergency Line at: 800-848-8715					
Location: DOT 742625W					
RR Milepost: 63.500					
Subdivision: Corpus Christi					
	_				

Initials: Date: 06/05/2023



Rail Division

# RAILROAD SCOPE OF WORK PROJECT SPECIFIC DETAILS

rr-scope-of-work.pdf | DN: TXDOT | CK: DW: CK:

FILE: rr-scop	e-of-work.pdf	DN: Tx	DOT	CK:	DW:	CK:	
© TxDOT	June 2014	CONT	SECT	JOB		HIGHWAY	
0.10000	REVISIONS	0916	00	228	I	H37, ETC.	
3/2023		DIST		COUNTY		SHEET NO.	
		CRP	١	NUECES, ET	C.	92	

	ORK AT CROSSING LOCATIONS (AT GRADE, HIGHWAY OVERPASS, HIGHWAY DERPASS, PEDESTRIAN, OR CLOSED/ABANDONED)
☐ This pr	oject is adjacent or parallel work, not within RR ROW: 435607D
Crossing ⁻	Type: At Grade on CR 392
RR Compa	any Operating Track at Crossing: Union Pacific Railroad Company
	any Owning Track at Crossing: Union Pacific Railroad Company
RR MP: <u>1</u>	05.750
	vision: Corpus Christi
City: Mat	his
County: L	ive Oak
CSJ at thi	s Crossing: <u>0916-00-228</u>
Scope of	Work, including any TCP, to be performed by State Contractor:
the railro	e's Contractor will be refreshing pavement markings and markers on the facility parallel to had tracks outside of railroad ROW. Traffic control may be implemented through railroad he county road cross street. No TCP channelizers will be within railroad ROW. RR flagging to ded for the entire duration of TCP through railroad ROW.
Scope of	Work to be performed by Railroad Company:
None	
On this pr ☐ Expect ☑ Not Ex	
Flagging s	services will be provided by:
	d Company: TxDOT will pay flagging invoices. Flagging Agreement with Railroad will be
	e Party: Contractor will pay flagging invoices to be reimbursed by TxDOT
requires a	r must incorporate flaggers into anticipated construction schedule. The Railroad a 30-day notice if their flaggers are to be utilized. If Contractor falls behind schedule due vn negligence and is not ready for scheduled flaggers, any flagging charges will be paid ctor.
Contact Ir	nformation for Flagging:
☑ UPRR	UP.info@railpros.com Call Center 877-315-0513, Select #1 for flagging
	UP.request@nrssinc.net Call Center 877-984-677
□ BNSF	BNSFinfo@railprosfs.com Call Center 877-315-0513, Select #1 for flagging
□ KCS	KCS.info@railpros.com Call Center 877-315-0513, Select #1 for flagging
	Bottom Line On-Track Safety Services bottomline076@aol.com, 903-767-7630
□ OTHER	S: [

Contractor must incorporate Construction Inspection	into anticipated construction schedule.
<ul><li>✓ Not Required</li><li>☐ Required. Contact Information for Construction In</li></ul>	spection:
III. CONSTRUCTION WORK TO BE PERFORM	MED BY THE RAILROAD
<ul><li>□ Required. Railroad Point of Contact:</li><li>☑ Not Required</li></ul>	
Coordinate with TxDOT for any work to be performed a work order for any work done by the Railroad Comp	
IV. RAILROAD INSURANCE REQUIREMENTS	3
The Contractor shall confirm the insurance requiremare subject to change without notice.	ents with the Railroad as the insurance limits
Insurance policies and corresponding certificates of on behalf of the Railroad. Separate insurance policie than one Railroad Company is operating on the same Companies are involved and operate on their own se	es and certificates are required when more e right of way, or when several Railroad
No direct compensation will be made to the Contract shown below or any deductibles. These costs are inc	
Escalated L	imits
Type of Insurance	Amount of Coverage (Minimum)
Workers Compensation	\$500,000 / \$500,000 / \$500,000
Commercial General Liability	\$2,000,000 / \$4,000,000
Business Automobile	\$2,000,000
Railroad Protective I	iability Limits
☐ Not Required	
Non - Bridge/Typical Maintenance Projects. Includes repairs to overpass/underpass and culvert structures	\$2,000,000 / \$6,000,000
☐ Bridge Structure Projects. Includes new construction or replacement of overpass/ underpass structures	\$5,000,000 / \$10,000,000
□ Other:	

☐ Not Required
☑ Required: UPRR Maintenance Consent Letter. TxDOT to assist
$\ \square$ Required: TxDOT to assist in obtaining the UPRR CROE
☐ Required: Contractor to obtain
☐ BNSF:
☐ KCS https://jllrpg.360works.com/fmi/webd/rpo_web_kcs.fmp12
☐ Other Railroads:

To view previously approved CROE templates agreed upon between the State and Railroad, see: https://www.txdot.gov/business/resources/railroad-highway-crossing/sample-right-of-entry-agreements.html

Approved CROE templates are not to be modified by the Contractor.

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A Railroad Coordination Meeting is required. See item 5, Article 8.1, of the Standard Specifications for Construction and Maintenance of Highways, Streets and Bridges Manual for more details.

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#### IX. EMERGENCY NOTIFICATION

In Case of Railroad Emergency	
Call: Union Pacific Railroad Company	
Railroad Emergency Line at: 800-848-8715	
Location: DOT 435607D	
RR Milepost: 105.750	_
Subdivision: Corpus Christi	



Rail Division

### RAILROAD SCOPE OF WORK

FILE: TT-SCOP	e-of-work.pdf	DN: TX	DOT	ск:	DW:	CK:
© TxDOT	June 2014	CONT	SECT	JOB		HIGHWAY
0,0000	REVISIONS	0916	00	228	IH37, ETC.	
3/2023		DIST		COUNTY		SHEET NO.
		CRP		NUECES, ET	rc.	93

☐ This proj DOT No.: $\frac{4}{100}$	ect is adjacent or parallel work, not within RR ROW:
	pe: At Grade on CR 319
	y Operating Track at Crossing: Union Pacific Railroad Company y Owning Track at Crossing: Union Pacific Railroad Company
RR MP: 10	
RR Subdivis	sion: Corpus Christi
City: Mathi	
County: Liv	
	Crossing: _0916-00-228
Scope of W	ork, including any TCP, to be performed by State Contractor:
the railroad	s Contractor will be refreshing pavement markings and markers on the facility parallel to d tracks outside of railroad ROW. Traffic control may be implemented through railroad e county road cross street. No TCP channelizers will be within railroad ROW. RR flagging to d for the entire duration of TCP through railroad ROW.
Scope of W	ork to be performed by Railroad Company:
None	
II. FLAG	GGING & INSPECTION
	GGING & INSPECTION  of Railroad Flagging Expected: 1
No. of Days	
No. of Days	of Railroad Flagging Expected: 1 ect, night or weekend flagging is:
No. of Days	of Railroad Flagging Expected: 1 ect, night or weekend flagging is:
No. of Days On this proj □ Expected □ Not Expe	of Railroad Flagging Expected: 1 ect, night or weekend flagging is:
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No. of Days On this proj □ Expected □ Not Expe	of Railroad Flagging Expected: 1 ect, night or weekend flagging is:
No. of Days On this proj □ Expected □ Not Expected □ Railroad needed	of Railroad Flagging Expected: 1 ect, night or weekend flagging is: dected rvices will be provided by:
No. of Days On this proj Expected Not Expected Railroad needed Outside Contractor requires a 3	of Railroad Flagging Expected:  ect, night or weekend flagging is: dected rvices will be provided by: Company: TxDOT will pay flagging invoices. Flagging Agreement with Railroad will be Party: Contractor will pay flagging invoices to be reimbursed by TxDOT must incorporate flaggers into anticipated construction schedule. The Railroad 80-day notice if their flaggers are to be utilized. If Contractor falls behind schedule du in negligence and is not ready for scheduled flaggers, any flagging charges will be paid
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No. of Days On this proj Expected Not Expected Railroad needed Outside Contractor requires a 3 to their owr by Contract	of Railroad Flagging Expected:  ect, night or weekend flagging is: dected rvices will be provided by: Company: TxDOT will pay flagging invoices. Flagging Agreement with Railroad will be Party: Contractor will pay flagging invoices to be reimbursed by TxDOT must incorporate flaggers into anticipated construction schedule. The Railroad 80-day notice if their flaggers are to be utilized. If Contractor falls behind schedule du negligence and is not ready for scheduled flaggers, any flagging charges will be paid or.  primation for Flagging: UP.info@railpros.com Call Center 877-315-0513, Select #1 for flagging UP.request@nrssinc.net
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No. of Days On this proj Expected Not Expected Not Expected Railroad needed Outside Contractor requires a 3 to their owr by Contract Contact Info UPRR	of Railroad Flagging Expected: 1 ect, night or weekend flagging is: dected rvices will be provided by: Company: TxDOT will pay flagging invoices. Flagging Agreement with Railroad will be Party: Contractor will pay flagging invoices to be reimbursed by TxDOT must incorporate flaggers into anticipated construction schedule. The Railroad 30-day notice if their flaggers are to be utilized. If Contractor falls behind schedule du negligence and is not ready for scheduled flaggers, any flagging charges will be paid or.  primation for Flagging: UP.info@railpros.com Call Center 877-315-0513, Select #1 for flagging UP.request@nrssinc.net Call Center 877-984-677 BNSFinfo@railprosfs.com Call Center 877-315-0513, Select #1 for flagging KCS.info@railpros.com

Required. Railroad Point of Contact:	
☑ Not Required	
Coordinate with TxDOT for any work to be performed a work order for any work done by the Railroad Comp	
V. RAILROAD INSURANCE REQUIREMENTS	S
The Contractor shall confirm the insurance requirem are subject to change without notice.	ents with the Railroad as the insurance li
insurance policies and corresponding certificates of on behalf of the Railroad. Separate insurance policie than one Railroad Company is operating on the sam Companies are involved and operate on their own se	es and certificates are required when mor e right of way, or when several Railroad
No direct compensation will be made to the Contrac shown below or any deductibles. These costs are in	
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Business Automobile	\$2,000,000
Railroad Protective	Liability Limits
☐ Not Required	
<ul> <li>Non - Bridge/Typical Maintenance Projects.</li> <li>Includes repairs to overpass/underpass and culvert structures</li> </ul>	\$2,000,000 / \$6,000,000
☐ Bridge Structure Projects. Includes new construction or replacement of overpass/ underpass structures	\$5,000,000 / \$10,000,000
☐ Other:	

V. CONTRA	ACTOR'S RIGHT OF ENTRY (CROE)
☐ Not Require	d
☑ Required: UI	PRR Maintenance Consent Letter. TxDOT to assist
☐ Required: Tx	xDOT to assist in obtaining the UPRR CROE
☐ Required: Co	ontractor to obtain
☐ BNS http:	F:s://bnsf.railpermitting.com
☐ KCS http:	s://jllrpg.360works.com/fmi/webd/rpo_web_kcs.fmp12

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□ Other Railroads:

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Call: Union Pacific Railroad Company
Railroad Emergency Line at: 800-848-8715
Location: DOT 435609S
RR Milepost: 105.090
Subdivision: Corpus Christi

**RRD Review Only** Initials: Date: 06/05/2023



Division

FILE: rr-scop	e-of-work.pdf	DN: TX	DOT	CK:	DW:	ск:
© TxDOT	June 2014	CONT	SECT	JOB		HIGHWAY
0/0000	REVISIONS	0916	00	228	II.	137, ETC.
3/2023		DIST		COUNTY		SHEET NO.
		CRP		NUECES ET	C	94

DOT No.: 4	ect is adjacent or parallel work, not within RR ROW: 35611T
	pe: At Grade on CR 371
	y Operating Track at Crossing: Union Pacific Railroad Company
	y Owning Track at Crossing: Union Pacific Railroad Company
RR MP: 10	
RR Subdivis	ion: Corpus Christi
City: Mathi	
County: Liv	e Oak
CSJ at this	Crossing: <u>0916-00-228</u>
Scope of W	ork, including any TCP, to be performed by State Contractor:
the railroad	Contractor will be refreshing pavement markings and markers on the facility parallel to d tracks outside of railroad ROW. Traffic control may be implemented through railroad e county road cross street. No TCP channelizers will be within railroad ROW. RR flagging to d for the entire duration of TCP through railroad ROW.
Scope of W	ork to be performed by Railroad Company:
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	aging & INSPECTION  of Railroad Flagging Expected: 1
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No. of Days On this proj □ Expected ☑ Not Expe Flagging se □ Railroad	of Railroad Flagging Expected: 1 ect, night or weekend flagging is:
No. of Days On this proj □ Expected ☑ Not Expe Flagging se □ Railroad needed	of Railroad Flagging Expected: 1 ect, night or weekend flagging is: dected rvices will be provided by:
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No. of Days On this proj Expected Not Expe Railroad needed Outside Contractor requires a 3 to their owr	of Railroad Flagging Expected:  ect, night or weekend flagging is: dected rvices will be provided by: Company: TxDOT will pay flagging invoices. Flagging Agreement with Railroad will be Party: Contractor will pay flagging invoices to be reimbursed by TxDOT must incorporate flaggers into anticipated construction schedule. The Railroad 80-day notice if their flaggers are to be utilized. If Contractor falls behind schedule due negligence and is not ready for scheduled flaggers, any flagging charges will be paid or.  ormation for Flagging: UP.info@railpros.com Call Center 877-315-0513, Select #1 for flagging UP.request@nrssinc.net
No. of Days On this proj Expected Not Expected Railroad needed Outside Contractor requires a 3 to their owr by Contract	of Railroad Flagging Expected:  ect, night or weekend flagging is: dected rvices will be provided by: Company: TxDOT will pay flagging invoices. Flagging Agreement with Railroad will be Party: Contractor will pay flagging invoices to be reimbursed by TxDOT must incorporate flaggers into anticipated construction schedule. The Railroad 80-day notice if their flaggers are to be utilized. If Contractor falls behind schedule due negligence and is not ready for scheduled flaggers, any flagging charges will be paid or.  ormation for Flagging: UP.info@railpros.com Call Center 877-315-0513, Select #1 for flagging UP.request@nrssinc.net Call Center 877-984-677 BNSFinfo@railprosfs.com
No. of Days On this proj Expected Not Expected Not Expected Railroad needed Outside Contractor requires a 3 to their owr by Contract Contact Info UPRR	of Railroad Flagging Expected:  ect, night or weekend flagging is: deted rvices will be provided by: Company: TxDOT will pay flagging invoices. Flagging Agreement with Railroad will be Party: Contractor will pay flagging invoices to be reimbursed by TxDOT must incorporate flaggers into anticipated construction schedule. The Railroad 80-day notice if their flaggers are to be utilized. If Contractor falls behind schedule due negligence and is not ready for scheduled flaggers, any flagging charges will be paid or.  ormation for Flagging: UP.info@railpros.com Call Center 877-315-0513, Select #1 for flagging UP.request@nrssinc.net Call Center 877-984-677 BNSFinfo@railprosfs.com Call Center 877-315-0513, Select #1 for flagging KCS.info@railpros.com
No. of Days On this proj Expected Not Expected Not Expected Railroad needed Outside Contractor requires a 3 to their own by Contract Contact Info	of Railroad Flagging Expected: 1 ect, night or weekend flagging is: detect rvices will be provided by: Company: TxDOT will pay flagging invoices. Flagging Agreement with Railroad will be Party: Contractor will pay flagging invoices to be reimbursed by TxDOT must incorporate flaggers into anticipated construction schedule. The Railroad 80-day notice if their flaggers are to be utilized. If Contractor falls behind schedule due negligence and is not ready for scheduled flaggers, any flagging charges will be paid or.  primation for Flagging: UP.info@railpros.com Call Center 877-315-0513, Select #1 for flagging UP.request@nrssinc.net Call Center 877-984-677 BNSFinfo@railprosfs.com Call Center 877-315-0513, Select #1 for flagging KCS.info@railpros.com Call Center 877-315-0513, Select #1 for flagging BOTOM Line On-Track Safety Services
No. of Days On this proj Expected Not Expected Not Expected Railroad needed Outside Contractor requires a 3 to their owr by Contract Contact Info UPRR	of Railroad Flagging Expected: 1 ect, night or weekend flagging is: deted rvices will be provided by: Company: TxDOT will pay flagging invoices. Flagging Agreement with Railroad will be Party: Contractor will pay flagging invoices to be reimbursed by TxDOT must incorporate flaggers into anticipated construction schedule. The Railroad 80-day notice if their flaggers are to be utilized. If Contractor falls behind schedule due negligence and is not ready for scheduled flaggers, any flagging charges will be paid or.  primation for Flagging: UP.info@railpros.com Call Center 877-315-0513, Select #1 for flagging UP.request@nrssinc.net Call Center 877-315-0513, Select #1 for flagging KCS.info@railpros.com Call Center 877-315-0513, Select #1 for flagging BNSFinfo@railpros.com Call Center 877-315-0513, Select #1 for flagging BOCS.info@railpros.com Call Center 877-315-0513, Select #1 for flagging

Contractor must incorporate Construction Inspection	into anticipated construction schedule.
<ul><li>☑ Not Required</li><li>☐ Required. Contact Information for Construction In</li></ul>	spection:
III. CONSTRUCTION WORK TO BE PERFORM	NED BY THE RAILROAD
<ul><li>□ Required. Railroad Point of Contact:</li><li>☑ Not Required</li></ul>	
Coordinate with TxDOT for any work to be performed a work order for any work done by the Railroad Comp	
IV. RAILROAD INSURANCE REQUIREMENTS	5
The Contractor shall confirm the insurance requirem are subject to change without notice.	ents with the Railroad as the insurance limits
Insurance policies and corresponding certificates of on behalf of the Railroad. Separate insurance policie than one Railroad Company is operating on the same Companies are involved and operate on their own se	es and certificates are required when more e right of way, or when several Railroad
No direct compensation will be made to the Contract shown below or any deductibles. These costs are inc	-
Escalated L	imits
Type of Insurance	Amount of Coverage (Minimum)
Workers Compensation	\$500,000 / \$500,000 / \$500,000
Commercial General Liability	\$2,000,000 / \$4,000,000
Business Automobile	\$2,000,000
Railroad Protective I	Liability Limits
☐ Not Required	
✓ Nor - Bridge/Typical Maintenance Projects. Includes repairs to overpass/underpass and culvert structures	\$2,000,000 / \$6,000,000
☐ Bridge Structure Projects. Includes new construction or replacement of overpass/ underpass structures	\$5,000,000 / \$10,000,000
□ Other:	

☐ Not Required
☑ Required: UPRR Maintenance Consent Letter. TxDOT to assist
$\square$ Required: TxDOT to assist in obtaining the UPRR CROE
☐ Required: Contractor to obtain
☐ BNSF:
☐ KCS https://jllrpg.360works.com/fmi/webd/rpo_web_kcs.fmp12
☐ Other Railroads:

To view previously approved CROE templates agreed upon between the State and Railroad, see: https://www.txdot.gov/business/resources/railroad-highway-crossing/sample-right-of-entry-agreements.html

Approved CROE templates are not to be modified by the Contractor.

Contractor shall not operate within Railroad Right of Way without an executed Construction & Maintenance Agreement between the State and the Railroad and an executed CROE between the Contractor and the Railroad if required on project.

#### VI. RAILROAD COORDINATION MEETING

A Railroad Coordination Meeting is required. See item 5, Article 8.1, of the Standard Specifications for Construction and Maintenance of Highways, Streets and Bridges Manual for more details.

#### **VII. RAILROAD SAFETY ORIENTATION**

A. Complete the Railroad's course "Orientation for Contractor's Safety," and maintain registration prior to working on the Railroad's property. This course is required to be completed annually by Contractor and Subcontractor personnel working on site.

UPRR, BNSF, KCS/TEXMEX will not accept on-track safety training certificates from other Railroads. Refer to each Railroad's specific contractor right of entry for training information.

Know and follow the Contractor's Right of Entry Agreement EXHIBIT D, MINIMUM SAFETY REQUIREMENTS regarding clothing, personal protective equipment, and general safety requirements.

#### VIII. SUBCONTRACTORS

Contractor shall not subcontract work without written consent of TxDOT. Subcontractors are subject to the same insurance requirements as the Prime Contractor.

#### IX. EMERGENCY NOTIFICATION

In Case of Railroad Emergency
Call: Union Pacific Railroad Company
Railroad Emergency Line at: 800-848-8715
Location: DOT 435611T
RR Milepost: 104.190
Subdivision: Corpus Christi



Rail Division

### RAILROAD SCOPE OF WORK

FILE: rr-scop	e-of-work.pdf	DN: Tx	DOT	ск:	DW:	CK:	
© TxDOT	June 2014	CONT	SECT	JOB		HIGHWA	Y
0/0000	REVISIONS	0916	00	228	I	IH37, ETC.	
3/2023		DIST		COUNTY		SHEE	T NO.
		CRP		NUECES, ET	C.	9	5

	ect is adjacent or parallel work, not within RR ROW:
DOT No.: 4	pe: IH 69/ US 77 northbound main lanes above RR (highway overpass)
0 .	y Operating Track at Crossing: Union Pacific Railroad Company
	by Owning Track at Crossing: Union Pacific Railroad Company
RR MP: 14	
	sion: Brownsville
City: Robst	
County: Nu	
CSJ at this	Crossing: _0916-00-228
Scope of W	ork, including any TCP, to be performed by State Contractor:
Way on the placed will	s Contractor will be refreshing pavement markings and markers through Railroad Right of e facility that carries traffic above the railroad tracks. Any and all pavement markings be to standard. TCP signs and/or channelizers may be within railroad ROW on the facility s traffic above the railroad tracks.
Scope of W	ork to be performed by Railroad Company:
None	
II. FLAG	GGING & INSPECTION  of Railroad Flagging Expected: 1
II. FLAG	of Railroad Flagging Expected: 1 ect, night or weekend flagging is:
II. FLAC  No. of Days  On this proj  □ Expecte  ☑ Not Expe	of Railroad Flagging Expected: 1 ect, night or weekend flagging is:
II. FLAC  No. of Days  On this proj  Expected  Not Expert  Flagging se  Railroad	of Railroad Flagging Expected: 1 ect, night or weekend flagging is:
II. FLAG  No. of Days  On this pro  □ Expecte  □ Not Expe  Flagging se  □ Railroad  needed	of Railroad Flagging Expected: 1 ect, night or weekend flagging is: dected rvices will be provided by:
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II. FLAC  No. of Days  On this proj  Expecte.  ✓ Not Expe  Flagging se  Railroad needed  ✓ Outside  Contractor requires a 3 to their owr by Contract	of Railroad Flagging Expected: 1 ect, night or weekend flagging is: dected rvices will be provided by: Company: TxDOT will pay flagging invoices. Flagging Agreement with Railroad will be Party: Contractor will pay flagging invoices to be reimbursed by TxDOT must incorporate flaggers into anticipated construction schedule. The Railroad 80-day notice if their flaggers are to be utilized. If Contractor falls behind schedule due in negligence and is not ready for scheduled flaggers, any flagging charges will be paid
II. FLAC  No. of Days  On this proj  Expecte.  ✓ Not Expe  Flagging se  Railroad needed  ✓ Outside  Contractor requires a 3 to their owr by Contract	of Railroad Flagging Expected: 1 ect, night or weekend flagging is: dected rvices will be provided by: Company: TxDOT will pay flagging invoices. Flagging Agreement with Railroad will be Party: Contractor will pay flagging invoices to be reimbursed by TxDOT must incorporate flaggers into anticipated construction schedule. The Railroad 80-day notice if their flaggers are to be utilized. If Contractor falls behind schedule due a negligence and is not ready for scheduled flaggers, any flagging charges will be paid or.  prmation for Flagging: UP.info@railpros.com
II. FLAC  No. of Days  On this proj  Expecte:  Not Expe  Railroad needed  Outside  Contractor requires a 3 to their owr by Contract  Contact Info	of Railroad Flagging Expected:  ect, night or weekend flagging is: dected rvices will be provided by: Company: TxDOT will pay flagging invoices. Flagging Agreement with Railroad will be Party: Contractor will pay flagging invoices to be reimbursed by TxDOT must incorporate flaggers into anticipated construction schedule. The Railroad 30-day notice if their flaggers are to be utilized. If Contractor falls behind schedule due in negligence and is not ready for scheduled flaggers, any flagging charges will be paid or.  primation for Flagging: UP.info@railpros.com Call Center 877-315-0513, Select #1 for flagging UP.request@nrssinc.net
II. FLAC  No. of Days  On this proj  Expecte:  Not Expe  Railroad needed  Outside  Contractor requires a 3 to their owr by Contract  Contact Info	of Railroad Flagging Expected:  ect, night or weekend flagging is: dected rvices will be provided by: Company: TxDOT will pay flagging invoices. Flagging Agreement with Railroad will be Party: Contractor will pay flagging invoices to be reimbursed by TxDOT must incorporate flaggers into anticipated construction schedule. The Railroad 30-day notice if their flaggers are to be utilized. If Contractor falls behind schedule due in negligence and is not ready for scheduled flaggers, any flagging charges will be paid or.  ormation for Flagging: UP.info@railpros.com Call Center 877-315-0513, Select #1 for flagging UP.request@nrssinc.net Call Center 877-984-677 BNSFinfo@railprosfs.com
II. FLAC  No. of Days  On this proj  Expecte  Not Expecte  Railroad needed  Outside  Contractor requires a 3 to their owr by Contract  Contact Info	of Railroad Flagging Expected:  ect, night or weekend flagging is: dected rvices will be provided by: Company: TxDOT will pay flagging invoices. Flagging Agreement with Railroad will be Party: Contractor will pay flagging invoices to be reimbursed by TxDOT must incorporate flaggers into anticipated construction schedule. The Railroad 30-day notice if their flaggers are to be utilized. If Contractor falls behind schedule due in negligence and is not ready for scheduled flaggers, any flagging charges will be paid or.  primation for Flagging: UP.info@railpros.com Call Center 877-315-0513, Select #1 for flagging UP.request@nrssinc.net Call Center 877-984-677
II. FLAC  No. of Days  On this proj  Expecte.  Not Expecte.  Not Expecte.  Railroad needed  Outside  Contractor requires a 3 to their owr by Contract  Contact Info  UPRR  ■ BNSF	of Railroad Flagging Expected: 1 ect, night or weekend flagging is: dected rvices will be provided by: Company: TxDOT will pay flagging invoices. Flagging Agreement with Railroad will be Party: Contractor will pay flagging invoices to be reimbursed by TxDOT must incorporate flaggers into anticipated construction schedule. The Railroad 80-day notice if their flaggers are to be utilized. If Contractor falls behind schedule due in regligence and is not ready for scheduled flaggers, any flagging charges will be paid or.  primation for Flagging: UP.info@railpros.com Call Center 877-315-0513, Select #1 for flagging UP.request@nrssinc.net Call Center 877-984-677 BNSFinfo@railprosfs.com Call Center 877-315-0513, Select #1 for flagging KCS.info@railpros.com
II. FLAC  No. of Days  On this proj  Expecte.  ✓ Not Expe  ✓ Railroad needed  ✓ Outside  Contractor requires a 3 to their owr by Contract  Contact Info  ✓ UPRR	of Railroad Flagging Expected:  ect, night or weekend flagging is:  dected  rvices will be provided by:  Company: TxDOT will pay flagging invoices. Flagging Agreement with Railroad will be  Party: Contractor will pay flagging invoices to be reimbursed by TxDOT  must incorporate flaggers into anticipated construction schedule. The Railroad 80-day notice if their flaggers are to be utilized. If Contractor falls behind schedule due negligence and is not ready for scheduled flaggers, any flagging charges will be paid or.  primation for Flagging:  UP.info@railpros.com  Call Center 877-315-0513, Select #1 for flagging  UP.request@nrssinc.net  Call Center 877-315-0513, Select #1 for flagging  KCS.info@railpros.com  Call Center 877-315-0513, Select #1 for flagging  KCS.info@railpros.com  Call Center 877-315-0513, Select #1 for flagging  Bottom Line On-Track Safety Services  bottomlineO76@aol.com, 903-767-7630

Contractor must incorporate Construction Inspection	into anticipated construction schedule.			
☑ Not Required □ Required. Contact Information for Construction Inspection:				
III. CONSTRUCTION WORK TO BE PERFORI	MED BY THE RAILROAD			
☐ Required. Railroad Point of Contact:				
☑ Not Required  Coordinate with TxDOT for any work to be performed a work order for any work done by the Railroad Comp  The state of the complex of the Railroad Complex or the compl				
IV. RAILROAD INSURANCE REQUIREMENTS	S			
The Contractor shall confirm the insurance requirem are subject to change without notice.	ents with the Railroad as the insurance limits			
Insurance policies and corresponding certificates of on behalf of the Railroad. Separate insurance policie than one Railroad Company is operating on the sam Companies are involved and operate on their own se	es and certificates are required when more e right of way, or when several Railroad			
No direct compensation will be made to the Contrac shown below or any deductibles. These costs are in				
Escalated I	imits			
Type of Insurance	Amount of Coverage (Minimum)			
Workers Compensation	\$500,000 / \$500,000 / \$500,000			
Commercial General Liability \$2,000,000 / \$4,000,000				
Business Automobile	\$2,000,000			
Railroad Protective	Liability Limits			
☐ Not Required				
<ul> <li>Non - Bridge/Typical Maintenance Projects.</li> <li>Includes repairs to overpass/underpass and culvert structures</li> </ul>	\$2,000,000 / \$6,000,000			
☐ Bridge Structure Projects. Includes new construction or replacement of overpass/ underpass structures	\$5,000,000 / \$10,000,000			
☐ Other:				

☐ Not Required
☑ Required: UPRR Maintenance Consent Letter. TxDOT to assist
$\ \square$ Required: TxDOT to assist in obtaining the UPRR CROE
☐ Required: Contractor to obtain
☐ BNSF:
☐ KCS https://jllrpg.360works.com/fmi/webd/rpo_web_kcs.fmp12
☐ Other Railroads:

To view previously approved CROE templates agreed upon between the State and Railroad, see: https://www.txdot.gov/business/resources/railroad-highway-crossing/sample-right-of-entry-agreements.html

Approved CROE templates are not to be modified by the Contractor.

Contractor shall not operate within Railroad Right of Way without an executed Construction & Maintenance Agreement between the State and the Railroad and an executed CROE between the Contractor and the Railroad if required on project.

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#### **VII. RAILROAD SAFETY ORIENTATION**

A. Complete the Railroad's course "Orientation for Contractor's Safety," and maintain registration prior to working on the Railroad's property. This course is required to be completed annually by Contractor and Subcontractor personnel working on site.

UPRR, BNSF, KCS/TEXMEX will not accept on-track safety training certificates from other Railroads. Refer to each Railroad's specific contractor right of entry for training information.

Know and follow the Contractor's Right of Entry Agreement EXHIBIT D, MINIMUM SAFETY REQUIREMENTS regarding clothing, personal protective equipment, and general safety requirements.

#### VIII. SUBCONTRACTORS

Contractor shall not subcontract work without written consent of TxDOT. Subcontractors are subject to the same insurance requirements as the Prime Contractor.

#### IX. EMERGENCY NOTIFICATION

	Railroad Emergency	
Call: Union	Pacific Railroad Company	
Railroad En	nergency Line at: 800-848-8715	
Location: D	OT 427590G	
RR Milepos	t: <u>144.200</u>	
Subdivision	: Brownsville	

RRD Review Only
Initials:
Date: 06/05/2023



Rail Division

FILE: rr-scop	e-of-work.pdf	DN: TX	DOT	ск:	DW:		ск:
© TxDOT	June 2014	CONT	SECT	JOB		н	GHWAY
0/0000	REVISIONS	0916	00	228		IH37, ETC.	
3/2023		DIST		COUNTY			SHEET NO.
		CDD		ILIECES ET	_		06

	K AT CROSSING LOCATIONS (AT GRADE, HIGHWAY OVERPASS, HIGHWAY ERPASS, PEDESTRIAN, OR CLOSED/ABANDONED)
☐ This project	ect is adjacent or parallel work, not within RR ROW: 27609W
	De: at grade on FM 665 /1st Ave
RR Company	y Operating Track at Crossing: Union Pacific Railroad Company
	y Owning Track at Crossing: Union Pacific Railroad Company
RR MP: 132	
	ion: Brownsville
City: Driscol	
County: Nue	eces
CSJ at this 0	Crossing: <u>0916-00-228</u>
Scope of Wo	ork, including any TCP, to be performed by State Contractor:
side of US 7 Any and all Right of Wa for the entil condition th	Contractor will be refreshing pavement markings and markers on the facility on the other 77 and approximately 124 feet from the railroad tracks outside of Railroad Right of Way. pavement markings placed will be to standard. Traffic control may run through railroad by. No TCP signs or channelizers will be within railroad ROW. RR flagging to be provided re duration of TCP through railroad ROW. If Contractor creates a traffic contra-flow nat causes vehicles to cross the railroad tracks in an opposing lane, a railroad flagger is sed to be on-site for the duration of the contra-flow traffic control plan within railroad ROW.
Scope of Wo	ork to be performed by Railroad Company:
None	
	GING & INSPECTION  of Railroad Flagging Expected: 1
	ect, night or weekend flagging is:
☐ Expected	
✓ Not Expe	
₩ Not Expe	oteu
Flagging ser	vices will be provided by:
☐ Railroad needed	Company: TxDOT will pay flagging invoices. Flagging Agreement with Railroad will be
✓ Outside F	Party: Contractor will pay flagging invoices to be reimbursed by TxDOT
requires a 3	nust incorporate flaggers into anticipated construction schedule. The Railroad O-day notice if their flaggers are to be utilized. If Contractor falls behind schedule due negligence and is not ready for scheduled flaggers, any flagging charges will be paid or.
Contact Info	ormation for Flagging:
<b>☑</b> UPRR	UP.info@railpros.com Call Center 877-315-0513, Select #1 for flagging
	UP.request@nrssinc.net Call Center 877-984-677
□ BNSF	BNSFinfo@railprosfs.com Call Center 877-315-0513, Select #1 for flagging
□ KCS	KCS.info@railpros.com Call Center 877-315-0513, Select #1 for flagging
	Bottom Line On-Track Safety Services bottomline076@aol.com, 903-767-7630
□ OTHERS:	

Contractor must incorporate Construction Inspection  ☑ Not Required □ Required. Contact Information for Construction In	·	
The State's Contractor will be refreshing pavement madivided highway and approximately 675 feet from the Way. No TCP signs or channelizers will be within railroduration of TCP through railroad ROW.	railroad tracks outside of Railroad Right of	
III. CONSTRUCTION WORK TO BE PERFORM	MED BY THE RAILROAD	
☐ Required. Railroad Point of Contact:		
✓ Not Required		
Coordinate with TxDOT for any work to be performed a work order for any work done by the Railroad Comp		
IV. RAILROAD INSURANCE REQUIREMENTS	5	
The Contractor shall confirm the insurance requirem are subject to change without notice.	ents with the Railroad as the insurance limits	
Insurance policies and corresponding certificates of on behalf of the Railroad. Separate insurance policies than one Railroad Company is operating on the same Companies are involved and operate on their own se	es and certificates are required when more e right of way, or when several Railroad	
No direct compensation will be made to the Contract shown below or any deductibles. These costs are incompensation will be made to the Contract shown below or any deductibles.	-	
Escalated L	imits	
Type of Insurance	Amount of Coverage (Minimum)	
Workers Compensation	\$500,000 / \$500,000 / \$500,000	
Commercial General Liability	\$2,000,000 / \$4,000,000	
Business Automobile \$2,000,000		

# num) 00,000

Railroad Protective Liabili	ty Limits
<ul> <li>□ Not Required</li> <li>☑ Non - Bridge/Typical Maintenance Projects.</li> <li>Includes repairs to overpass/underpass and</li> </ul>	\$2,000,000 / \$6,000,000
culvert structures  ☐ Bridge Structure Projects. Includes new construction or replacement of overpass/	\$5,000,000 / \$10,000,000
underpass structures  Other:	

#### V. CONTRACTOR'S RIGHT OF ENTRY (CROE)

☐ Not Required
☑ Required: UPRR Maintenance Consent Letter. TxDOT to assist
$\square$ Required: TxDOT to assist in obtaining the UPRR CROE
☐ Required: Contractor to obtain
☐ BNSF:
☐ KCS https://jllrpg.360works.com/fmi/webd/rpo_web_kcs.fmp12
☐ Other Railroads:

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#### IX. EMERGENCY NOTIFICATION

In Case of Railroad Emergency
Call: Union Pacific Railroad Company
Railroad Emergency Line at: 800-848-8715
Location: DOT 427609W
RR Milepost: 132.010
Subdivision: Brownsville

**RRD Review Only** Initials: Date: 06/05/2023



Division

FILE: rr-scope-of-work.pdf		DN: TX	DOT	ск:	DW:	ск:	
© TxDOT	June 2014	CONT	SECT	JOB		HIG	HWAY
0/0000	REVISIONS	0916	0916 00 228		IH37	, ETC.	
3/2023		DIST		COUNTY			SHEET NO.
		CRP		NUECES E	rc.		97

	K AT CROSSING LOCATIONS (AT GRADE, HIGHWAY OVERPASS, HIGHWAY ERPASS, PEDESTRIAN, OR CLOSED/ABANDONED)
☐ This project	ect is adjacent or parallel work, not within RR ROW: 27746D
	oe: IH 69/ US 77 southbound main lanes above RR (highway overpass)
	y Operating Track at Crossing: Union Pacific Railroad Company
	y Owning Track at Crossing: Union Pacific Railroad Company
RR MP: 144	
	ion: Brownsville
City: Robsto	
County: Nue	eces
CSJ at this (	Crossing: 0916-00-228
Scope of Wo	ork, including any TCP, to be performed by State Contractor:
Way on the placed will	Contractor will be refreshing pavement markings and markers through Railroad Right of facility that carries traffic above the railroad tracks. Any and all pavement markings be to standard. TCP signs and/or channelizers may be within railroad ROW on the facility traffic above the railroad tracks.
Scope of Wo	ork to be performed by Railroad Company:
None	
No. of Days	of Railroad Flagging Expected: 1
	ect, night or weekend flagging is:
☐ Expected	
✓ Not Expe	cted
00 0	vices will be provided by: Company: TxDOT will pay flagging invoices. Flagging Agreement with Railroad will be
✓ Outside F	Party: Contractor will pay flagging invoices to be reimbursed by TxDOT
requires a 3	nust incorporate flaggers into anticipated construction schedule. The Railroad O-day notice if their flaggers are to be utilized. If Contractor falls behind schedule due negligence and is not ready for scheduled flaggers, any flagging charges will be paid or.
Contact Info	ormation for Flagging:
<b>☑</b> UPRR	UP.info@railpros.com Call Center 877-315-0513, Select #1 for flagging
	UP.request@nrssinc.net Call Center 877-984-677
□ BNSF	BNSFinfo@railprosfs.com Call Center 877-315-0513, Select #1 for flagging
□ KCS	KCS.info@railpros.com Call Center 877-315-0513, Select #1 for flagging
_	Bottom Line On-Track Safety Services bottomline076@aol.com, 903-767-7630
□ OTHERS:	

Contractor must incorporate Construction Inspection	into anticipated construction schedule.
<ul><li>☑ Not Required</li><li>☐ Required. Contact Information for Construction In</li></ul>	spection:
III. CONSTRUCTION WORK TO BE PERFORM	MED BY THE RAILROAD
☐ Required. Railroad Point of Contact:  ☑ Not Required	
Coordinate with TxDOT for any work to be performed a work order for any work done by the Railroad Comp	
IV. RAILROAD INSURANCE REQUIREMENTS	3
The Contractor shall confirm the insurance requirement are subject to change without notice.	ents with the Railroad as the insurance limits
Insurance policies and corresponding certificates of on behalf of the Railroad. Separate insurance policie than one Railroad Company is operating on the same Companies are involved and operate on their own se	es and certificates are required when more e right of way, or when several Railroad
No direct compensation will be made to the Contract shown below or any deductibles. These costs are inc	
Escalated L	imits
Type of Insurance	Amount of Coverage (Minimum)
Workers Compensation	\$500,000 / \$500,000 / \$500,000
Commercial General Liability	\$2,000,000 / \$4,000,000
Business Automobile	\$2,000,000
Railroad Protective L	iability Limits
☐ Not Required	
<ul> <li>Non - Bridge/Typical Maintenance Projects.</li> <li>Includes repairs to overpass/underpass and culvert structures</li> </ul>	\$2,000,000 / \$6,000,000
☐ Bridge Structure Projects. Includes new construction or replacement of overpass/ underpass structures	\$5,000,000 / \$10,000,000
□ Other:	

☐ Not Required
☑ Required: UPRR Maintenance Consent Letter. TxDOT to assist
$\square$ Required: TxDOT to assist in obtaining the UPRR CROE
☐ Required: Contractor to obtain
☐ BNSF:
☐ KCS https://jllrpg.360works.com/fmi/webd/rpo_web_kcs.fmp12
☐ Other Railroads:

To view previously approved CROE templates agreed upon between the State and Railroad, see: https://www.txdot.gov/business/resources/railroad-highway-crossing/sample-right-of-entry-agreements.html

Approved CROE templates are not to be modified by the Contractor.

Contractor shall not operate within Railroad Right of Way without an executed Construction & Maintenance Agreement between the State and the Railroad and an executed CROE between the Contractor and the Railroad if required on project.

#### VI. RAILROAD COORDINATION MEETING

A Railroad Coordination Meeting is required. See item 5, Article 8.1, of the Standard Specifications for Construction and Maintenance of Highways, Streets and Bridges Manual for more details.

#### **VII. RAILROAD SAFETY ORIENTATION**

A. Complete the Railroad's course "Orientation for Contractor's Safety," and maintain registration prior to working on the Railroad's property. This course is required to be completed annually by Contractor and Subcontractor personnel working on site.

UPRR, BNSF, KCS/TEXMEX will not accept on-track safety training certificates from other Railroads. Refer to each Railroad's specific contractor right of entry for training information.

Know and follow the Contractor's Right of Entry Agreement EXHIBIT D, MINIMUM SAFETY REQUIREMENTS regarding clothing, personal protective equipment, and general safety requirements.

#### VIII. SUBCONTRACTORS

Contractor shall not subcontract work without written consent of TxDOT. Subcontractors are subject to the same insurance requirements as the Prime Contractor.

#### IX. EMERGENCY NOTIFICATION

In Case of Railroad Emergency	
Call: Union Pacific Railroad Company	
Railroad Emergency Line at: 800-848-8715	
Location: DOT 427746D	
RR Milepost: 144.110	
Subdivision: Brownsville	



Division

FILE: rr-scop	e-of-work.pdf	DN: TX	DOT	ск:	DW:		ск:
© TxDOT	June 2014	CONT	SECT	JOB		HIG	HWAY
0/0000	REVISIONS	0916	00	228		IH37	, ETC.
3/2023		DIST		COUNTY			SHEET NO.
		CRP		NUFCES E	rc.		98

	K AT CROSSING LOCATIONS (AT GRADE, HIGHWAY OVERPASS, HIGHWAY ERPASS, PEDESTRIAN, OR CLOSED/ABANDONED)
☐ This proje	ect is adjacent or parallel work, not within RR ROW: 35536J
Crossing Typ	De: railroad over IH 37 (closed-abandoned)
RR Compan	y Operating Track at Crossing: Union Pacific Railroad Company
	y Owning Track at Crossing: Union Pacific Railroad Company
RR MP: 143	
RR Subdivis	ion: Corpus Christi
City: Corpus	s Christi
County: Nu	eces
CSJ at this (	Crossing: 0916-00-228
Scope of Wo	ork, including any TCP, to be performed by State Contractor:
Way on the markings p	Contractor will be refreshing pavement markings and markers through Railroad Right of facility that carries traffic under the abandoned railroad tracks. Any and all pavement laced will be to standard. TCP signs and/or channelizers may be within railroad ROW on that carries traffic under the abandoned railroad tracks.
Scope of Wo	ork to be performed by Railroad Company:
None	
	aGING & INSPECTION  of Railroad Flagging Expected: 0
On this proje	ect, night or weekend flagging is:
☐ Expected	I
✓ Not Expe	cted
Elemente de la com	and the second of the second o
	vices will be provided by: Company: TxDOT will pay flagging invoices. Flagging Agreement with Railroad will be
✓ Outside I	Party: Contractor will pay flagging invoices to be reimbursed by TxDOT
requires a 3	must incorporate flaggers into anticipated construction schedule. The Railroad 10-day notice if their flaggers are to be utilized. If Contractor falls behind schedule due negligence and is not ready for scheduled flaggers, any flagging charges will be paid or.
Contact Info	ormation for Flagging:
<b>☑</b> UPRR	UP.info@railpros.com Call Center 877-315-0513, Select #1 for flagging
	UP.request@nrssinc.net Call Center 877-984-677
□ BNSF	BNSFinfo@railprosfs.com Call Center 877-315-0513, Select #1 for flagging
□ KCS	KCS.info@railpros.com Call Center 877-315-0513, Select #1 for flagging
	Bottom Line On-Track Safety Services bottomline076@aol.com, 903-767-7630
☐ OTHERS:	

Contractor must incorporate Construction Inspection	into anticipated construction schedule.
<ul><li>☑ Not Required</li><li>☐ Required. Contact Information for Construction In</li></ul>	spection:
III. CONSTRUCTION WORK TO BE PERFORM	IED BY THE RAILROAD
☐ Required. Railroad Point of Contact:	
✓ Not Required	
Coordinate with TxDOT for any work to be performed a work order for any work done by the Railroad Comp	
IV. RAILROAD INSURANCE REQUIREMENTS	i
The Contractor shall confirm the insurance requirement are subject to change without notice.	ents with the Railroad as the insurance limits
Insurance policies and corresponding certificates of on behalf of the Railroad. Separate insurance policie than one Railroad Company is operating on the same Companies are involved and operate on their own se	s and certificates are required when more e right of way, or when several Railroad
No direct compensation will be made to the Contract shown below or any deductibles. These costs are inc	
Escalated L	imits
Type of Insurance	Amount of Coverage (Minimum)
Type of Insurance Workers Compensation	Amount of Coverage (Minimum) \$500,000 / \$500,000 / \$500,000
Workers Compensation	\$500,000 / \$500,000 / \$500,000
Workers Compensation  Commercial General Liability	\$500,000 / \$500,000 / \$500,000 \$2,000,000 / \$4,000,000
Workers Compensation  Commercial General Liability	\$500,000 / \$500,000 / \$500,000 \$2,000,000 / \$4,000,000 \$2,000,000
Workers Compensation  Commercial General Liability  Business Automobile	\$500,000 / \$500,000 / \$500,000 \$2,000,000 / \$4,000,000 \$2,000,000
Workers Compensation  Commercial General Liability  Business Automobile  Railroad Protective L	\$500,000 / \$500,000 / \$500,000 \$2,000,000 / \$4,000,000 \$2,000,000
Workers Compensation  Commercial General Liability  Business Automobile  Railroad Protective L  □ Not Required  ☑ Non - Bridge/Typical Maintenance Projects. Includes repairs to overpass/underpass and	\$500,000 / \$500,000 / \$500,000 \$2,000,000 / \$4,000,000 \$2,000,000
Workers Compensation  Commercial General Liability  Business Automobile  Railroad Protective L  Not Required  Non - Bridge/Typical Maintenance Projects. Includes repairs to overpass/underpass and culvert structures  Bridge Structure Projects. Includes new construction or replacement of overpass/	\$500,000 / \$500,000 / \$500,000 \$2,000,000 / \$4,000,000 \$2,000,000 \$2,000,000

☐ Not Required
☑ Required: UPRR Maintenance Consent Letter. TxDOT to assist
$\ \square$ Required: TxDOT to assist in obtaining the UPRR CROE
☐ Required: Contractor to obtain
☐ BNSF:
☐ KCS https://jllrpg.360works.com/fmi/webd/rpo_web_kcs.fmp12
☐ Other Railroads:

To view previously approved CROE templates agreed upon between the State and Railroad, see: https://www.txdot.gov/business/resources/railroad-highway-crossing/sample-right-of-entryagreements.html

Approved CROE templates are not to be modified by the Contractor.

Contractor shall not operate within Railroad Right of Way without an executed Construction & Maintenance Agreement between the State and the Railroad and an executed CROE between the Contractor and the Railroad if required on project.

#### VI. RAILROAD COORDINATION MEETING

A Railroad Coordination Meeting is required. See item 5, Article 8.1, of the Standard Specifications for Construction and Maintenance of Highways, Streets and Bridges Manual for more details.

#### **VII. RAILROAD SAFETY ORIENTATION**

A. Complete the Railroad's course "Orientation for Contractor's Safety," and maintain registration prior to working on the Railroad's property. This course is required to be completed annually by Contractor and Subcontractor personnel working on site.

UPRR, BNSF, KCS/TEXMEX will not accept on-track safety training certificates from other Railroads. Refer to each Railroad's specific contractor right of entry for training information.

Know and follow the Contractor's Right of Entry Agreement EXHIBIT D, MINIMUM SAFETY  $\label{lem:regarding} \textbf{REQUIREMENTS} \ \textbf{regarding} \ \textbf{clothing}, \ \textbf{personal} \ \textbf{protective} \ \textbf{equipment}, \ \textbf{and} \ \textbf{general} \ \textbf{safety} \ \textbf{requirements}.$ 

#### VIII. SUBCONTRACTORS

Contractor shall not subcontract work without written consent of TxDOT. Subcontractors are subject to the same insurance requirements as the Prime Contractor.

#### IX. EMERGENCY NOTIFICATION

In Case of Railroad Emergency	
Call: Union Pacific Railroad Company	
Railroad Emergency Line at: 800-848-8715	
Location: DOT 435536J	
RR Milepost: 143.300	
Subdivision: Corpus Christi	

**RRD Review Only** Initials: Date: 06/05/2023



Division

FILE: rr-scope-of-work.pdf	DN: TX	DOT	CK:	DW:		ск:
© TxDOT June 2014	CONT	SECT	JOB		HIG	HWAY
REVISIONS	0916	00	228		IH37	, ETC.

rr-scope	e-of-work.pdf	DN: Tx	DOT	CK: DW:			CK:	
xDOT	June 2014	CONT	SECT	JOB		HIGHWAY		l
000	REVISIONS	0916	00	228	I	Н37	, ETC.	
023		DIST		COUNTY			SHEET NO.	l
		CRP		NUECES, E	rc.		99	l

	ect is adjacent or parallel work, not within RR ROW:
DOT No.: 79	pe: at grade on FM 70
	y Operating Track at Crossing: Kansas City Southern Railroad
	y Owning Track at Crossing: Texas Mexican Railway
RR MP: 130	
RR Subdivis	
County: Nu	
	Crossing: 0916-00-228
Scope of Wo	ork, including any TCP, to be performed by State Contractor:
side of the of Way. An railroad Rig provided fo condition th	Contractor will be refreshing pavement markings and markers on the facility on the other divided highway approximately 675 feet from the railroad tracks outside of Railroad Right y and all pavement markings placed will be to standard. Traffic control may run through ght of Way. No TCP signs or channelizers will be within railroad ROW. RR flagging to be or entire duration of TCP through railroad ROW. If Contractor creates a traffic contra-flow that causes vehicles to cross the railroad tracks in an opposing lane, a railroad flagger is end to be on-site for the duration of the contra-flow traffic control plan within railroad ROW.
Scope of Wo	ork to be performed by Railroad Company:
None	
II. FLAG	GING & INSPECTION
No. of Days	of Railroad Flagging Expected: 1
No. of Days On this proj	of Railroad Flagging Expected: 1 ect, night or weekend flagging is:
No. of Days On this proj □ Expected	of Railroad Flagging Expected: 1 ect, night or weekend flagging is:
No. of Days	of Railroad Flagging Expected: 1 ect, night or weekend flagging is:
No. of Days On this proj □ Expected ☑ Not Expe	of Railroad Flagging Expected: 1 ect, night or weekend flagging is:
No. of Days On this proj □ Expected □ Not Expe	of Railroad Flagging Expected: 1 ect, night or weekend flagging is: l cted
No. of Days On this proj □ Expected □ Not Expe Flagging set □ Railroad needed	of Railroad Flagging Expected: 1 ect, night or weekend flagging is: cted vices will be provided by:
No. of Days On this proj Expected Not Expe Railroad needed Outside I Contractor r requires a 3	of Railroad Flagging Expected: 1 ect, night or weekend flagging is: cted rvices will be provided by: Company: TxDOT will pay flagging invoices. Flagging Agreement with Railroad will be Party: Contractor will pay flagging invoices to be reimbursed by TxDOT must incorporate flaggers into anticipated construction schedule. The Railroad iO-day notice if their flaggers are to be utilized. If Contractor falls behind schedule du negligence and is not ready for scheduled flaggers, any flagging charges will be paid
No. of Days On this proj. Expected Not Expe Railroad needed Outside I Contractor r requires a 3 to their own by Contractor	of Railroad Flagging Expected: 1 ect, night or weekend flagging is: cted rvices will be provided by: Company: TxDOT will pay flagging invoices. Flagging Agreement with Railroad will be Party: Contractor will pay flagging invoices to be reimbursed by TxDOT must incorporate flaggers into anticipated construction schedule. The Railroad iO-day notice if their flaggers are to be utilized. If Contractor falls behind schedule du negligence and is not ready for scheduled flaggers, any flagging charges will be paid
No. of Days On this proj.  Expected Not Expe Flagging ser Railroad needed Outside I Contractor r requires a 3 to their own by Contractor	of Railroad Flagging Expected:   ect, night or weekend flagging is:  cted  rvices will be provided by:  Company: TxDOT will pay flagging invoices. Flagging Agreement with Railroad will be  Party: Contractor will pay flagging invoices to be reimbursed by TxDOT  must incorporate flaggers into anticipated construction schedule. The Railroad invoices if their flaggers are to be utilized. If Contractor falls behind schedule du negligence and is not ready for scheduled flaggers, any flagging charges will be paid or.
No. of Days On this projection Expected Not Expected Railroad needed Outside I Contractor r requires a 3 to their own by Contract Contact Info	of Railroad Flagging Expected: 1 ect, night or weekend flagging is:  cted rvices will be provided by: Company: TxDOT will pay flagging invoices. Flagging Agreement with Railroad will be Party: Contractor will pay flagging invoices to be reimbursed by TxDOT must incorporate flaggers into anticipated construction schedule. The Railroad iO-day notice if their flaggers are to be utilized. If Contractor falls behind schedule du negligence and is not ready for scheduled flaggers, any flagging charges will be paid or.  ermation for Flagging: UP.info@railpros.com
No. of Days On this proj. Expected Not Expe Railroad needed Outside I Contractor r requires a 3 to their own by Contract UPRR	of Railroad Flagging Expected: 1 ect, night or weekend flagging is:  cted  vices will be provided by:  Company: TxDOT will pay flagging invoices. Flagging Agreement with Railroad will be  Party: Contractor will pay flagging invoices to be reimbursed by TxDOT  must incorporate flaggers into anticipated construction schedule. The Railroad  O-day notice if their flaggers are to be utilized. If Contractor falls behind schedule du negligence and is not ready for scheduled flaggers, any flagging charges will be paid  or.  ormation for Flagging:  UP.info@railpros.com  Call Center 877-315-0513, Select #1 for flagging  UP.request@nrssinc.net  Call Center 877-984-677  BNSFinfo@railprosfs.com
No. of Days On this projection Expected Not Expected Railroad needed Outside I Contractor r requires a 3 to their own by Contract Contact Info	of Railroad Flagging Expected: 1 ect, night or weekend flagging is: cted rvices will be provided by: Company: TxDOT will pay flagging invoices. Flagging Agreement with Railroad will be Party: Contractor will pay flagging invoices to be reimbursed by TxDOT must incorporate flaggers into anticipated construction schedule. The Railroad invoice of their flaggers are to be utilized. If Contractor falls behind schedule du negligence and is not ready for scheduled flaggers, any flagging charges will be paid or.  ormation for Flagging: UP.info@railpros.com Call Center 877-315-0513, Select #1 for flagging UP.request@nrssinc.net Call Center 877-984-677 BNSFinfo@railprosfs.com Call Center 877-315-0513, Select #1 for flagging KCS.info@railpros.com
No. of Days On this proj. Expected Not Expe Railroad needed Outside I Contractor r requires a 3 to their own by Contract Contact Info UPRR	of Railroad Flagging Expected: 1 ect, night or weekend flagging is: cted rvices will be provided by: Company: TxDOT will pay flagging invoices. Flagging Agreement with Railroad will be Party: Contractor will pay flagging invoices to be reimbursed by TxDOT must incorporate flaggers into anticipated construction schedule. The Railroad iO-day notice if their flaggers are to be utilized. If Contractor falls behind schedule du negligence and is not ready for scheduled flaggers, any flagging charges will be paid or.  ormation for Flagging: UP.info@railpros.com Call Center 877-315-0513, Select #1 for flagging UP.request@nrssinc.net Call Center 877-984-677 BNSFinfo@railprosfs.com Call Center 877-315-0513, Select #1 for flagging

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Contractor must incorporate Construction Inspection	into anticipated construction schedule.
<ul><li>✓ Not Required</li><li>☐ Required. Contact Information for Construction In</li></ul>	spection:
III. CONSTRUCTION WORK TO BE PERFORM	MED BY THE RAILROAD
□ Required. Railroad Point of Contact:     □ Not Required	
Coordinate with TxDOT for any work to be performed a work order for any work done by the Railroad Comp	
IV. RAILROAD INSURANCE REQUIREMENTS	3
The Contractor shall confirm the insurance requirem are subject to change without notice.	ents with the Railroad as the insurance limits
Insurance policies and corresponding certificates of on behalf of the Railroad. Separate insurance policies than one Railroad Company is operating on the same Companies are involved and operate on their own see	es and certificates are required when more e right of way, or when several Railroad
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Escalated L	imits
Type of Insurance	Amount of Coverage (Minimum)
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Commercial General Liability	\$2,000,000 / \$4,000,000
Business Automobile	\$2,000,000
Railroad Protective I	Liability Limits
☐ Not Required	
<ul> <li>Non - Bridge/Typical Maintenance Projects.</li> <li>Includes repairs to overpass/underpass and culvert structures</li> </ul>	\$2,000,000 / \$6,000,000
☐ Bridge Structure Projects. Includes new construction or replacement of overpass/ underpass structures	\$5,000,000 / \$10,000,000
□ Other:	

☐ Not Required
$\ \square$ Required: UPRR Maintenance Consent Letter. TxDOT to assist
$\ \square$ Required: TxDOT to assist in obtaining the UPRR CROE
☑ Required: Contractor to obtain
☐ BNSF:
KCS https://jllrpg.360works.com/fmi/webd/rpo_web_kcs.fmp12

To view previously approved CROE templates agreed upon between the State and Railroad, see: https://www.txdot.gov/business/resources/railroad-highway-crossing/sample-right-of-entryagreements.html

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UPRR, BNSF, KCS/TEXMEX will not accept on-track safety training certificates from other Railroads. Refer to each Railroad's specific contractor right of entry for training information.

Know and follow the Contractor's Right of Entry Agreement EXHIBIT D, MINIMUM SAFETY REQUIREMENTS regarding clothing, personal protective equipment, and general safety requirements.

#### VIII. SUBCONTRACTORS

Contractor shall not subcontract work without written consent of TxDOT. Subcontractors are subject to the same insurance requirements as the Prime Contractor.

#### IX. EMERGENCY NOTIFICATION

In Case of Railroad Emergency	
Call: Kansas City Southern Railroad	
Railroad Emergency Line at: 877-527-9464	
Location: DOT 793667X	
RR Milepost: 130.400	
Subdivision: Laredo	
Subdivision: Lateur	

RRD Review Only Initials: / Date: 05/31/2023 Texas Department of Transportation

Division

E: rr-scope	e-of-work.pdf	DN: TX	DOT	ск:	DW:		ск:
TxDOT	June 2014	CONT	SECT	JOB		н	IGHWAY
/0000	REVISIONS	0916	00	228		IH37	, ETC.
/2023		DIST		COUNTY			SHEET NO.
		CRD	1	MIECES	E'	rc	100

Crossing Type: H 37 above RR (highway overpass)  RR Company Operating Track at Crossing: Kensas City Southern Railroad Company  RR Company Owning Track at Crossing: Texas Mexican Railway  RR MP: 0.00  RR Subdivision: Laredo  City: Corpus Christi  County: Nueces  CSJ at this Crossing: 0916-00-228  Scope of Work, including any TCP, to be performed by State Contractor:  The State's Contractor will be refreshing pavement markings and markers through Railroad Right of Way on the facility that carries traffic above the railroad tracks. Any and all pavement markings placed will be to standard. TCP signs and/or channelizers may be within railroad ROW on the facility that carries traffic above the railroad Company:  None  II. FLAGGING & INSPECTION  No. of Days of Railroad Flagging Expected: 1  On this project, night or weekend flagging is:  Expected  Not Expected  Not Expected  On this project, night or weekend flagging invoices. Flagging Agreement with Railroad will be needed  Outside Party: Contractor will pay flagging invoices to be reimbursed by TxDOT  Contractor must incorporate flaggers are to be utilized. If Contractor falls behind schedule of to their own negligence and is not ready for scheduled flaggers, any flagging charges will be paid by Contractor.  Contact Information for Flagging:  UPRR UP.info@railpros.com Call Center 877-315-0513, Select #1 for flagging UP.request@rnssinc.net Call Center 877-315-0513, Select #1 for flagging UP.request@rnssinc.net Call Center 877-315-0513, Select #1 for flagging SIMOT Line On-Track Safety Services bottomline On-Track Safety Services bottomline On-Track Safety Services bottomline On-Frack Safety Services bottomline On-Track Safety Services bottomline On-Frack Safety Services	DOT No.: 90	ect is adjacent or parallel work, not within RR ROW: 00192E
RR Company Operating Track at Crossing: Kansas City Southern Railroad Company RR Company Owning Track at Crossing: Texas Mexican Railway RR MP: 0.00 RR Np: 0.00 RR Np: 0.00 RR Subdivision: Laredo City: Corpus Christi County: Nueces CSJ at this Crossing: 0916-00-228  Scope of Work, including any TCP, to be performed by State Contractor:  The State's Contractor will be refreshing pavement markings and markers through Railroad Right of Way on the facility that carries traffic above the railroad tracks. Any and all pavement markings placed will be to standard. TCP signs and/or channelizers may be within railroad ROW on the facility that carries traffic above the railroad tracks.  Scope of Work to be performed by Railroad Company:  None  II. FLAGGING & INSPECTION  No. of Days of Railroad Flagging Expected: 1 On this project, night or weekend flagging is: Expected I Not Expected Not Expected Not Expected Ontiside Party: Contractor will pay flagging invoices. Flagging Agreement with Railroad will be needed Outside Party: Contractor will pay flagging invoices to be reimbursed by TXDOT  Contractor must incorporate flaggers into anticipated construction schedule. The Railroad requires a 30-day notice if their flaggers are to be utilized. If Contractor falls behind schedule do to their own negligence and is not ready for scheduled flaggers, any flagging charges will be paid by Contractor.  Contact Information for Flagging:  UPRR UP info@railpros.com Call Center 877-315-0513, Select #1 for flagging UPrequest@rrasinc.net Call Center 877-315-0513, Select #1 for flagging ENSF BNSFinfo@railpros.com Call Center 877-315-0513, Select #1 for flagging BNSF BNSFinfo@railpros.com Call Center 877-315-0513, Select #1 for flagging Bottom Line On-Track Safety Services		
RR Company Owning Track at Crossing: Texas Mexican Railway  RR MP: 0.00  RR Subdivision: Laredo City: Corpus Christi  County: Nueces  CSJ at this Crossing: 0916-00-228  Scope of Work, including any TCP, to be performed by State Contractor:  The State's Contractor will be refreshing pavement markings and markers through Railroad Right of Way on the facility that carries traffic above the railroad tracks. Any and all pavement markings placed will be to standard. TCP signs and/or channelizers may be within railroad ROW on the facility that carries traffic above the railroad tracks.  Scope of Work to be performed by Railroad Company:  None  II. FLAGGING & INSPECTION  No. of Days of Railroad Flagging Expected: 1 On this project, night or weekend flagging is: Expected  Not Expected  Not Expected  Not Expected  Railroad Company: TxDOT will pay flagging invoices. Flagging Agreement with Railroad will be needed  Outside Party: Contractor will pay flagging invoices to be reimbursed by TxDOT  Contractor must incorporate flaggers into anticipated construction schedule. The Railroad requires a 30-day notice if their flaggers are to be utilized. If Contractor falls behind schedule do to their own negligence and is not ready for scheduled flaggers, any flagging charges will be paid by Contractor.  Contact Information for Flagging:  UPIRIO@AIRTOR. Scheduled flagging  UP: request@nrssinc.net Call Center 877-315-0513, Select #1 for flagging  UP: request@nrssinc.net Call Center 877-315-0513, Select #1 for flagging  KCS. Info@railpros.com Call Center 877-315-0513, Select #1 for flagging  SCS. Info@railpros.com Call Center 877-315-0513, Select #1 for flagging  OCS. Info@railpros.com Call Center 877-315-0513, Select #1 for flagging  SCS. Info@railpros.com Call Center 877-315-0513, Select #1 for flagging  Dottom Line On-Track Safety Services bottomline 076@aol.com, 903-767-7630		
RR MP: 0.00  RR Subdivision: Laredo City: Corpus Christi County: Nueces  CSJ at this Crossing: 0916-00-228  Scope of Work, including any TCP, to be performed by State Contractor:  The State's Contractor will be refreshing pavement markings and markers through Railroad Right of Way on the facility that carries traffic above the railroad tracks. Any and all pavement markings placed will be to standard. TCP signs and/or channelizers may be within railroad ROW on the facility that carries traffic above the railroad Company:  None  II. FLAGGING & INSPECTION  No. of Days of Railroad Flagging Expected: 1 On this project, night or weekend flagging is: Expected  Not Expected  Not Expected  Railroad Company: TxDOT will pay flagging invoices. Flagging Agreement with Railroad will be needed  Outside Party: Contractor will pay flagging invoices to be reimbursed by TxDOT  Contractor must incorporate flaggers into anticipated construction schedule. The Railroad requires a 30-day notice if their flaggers are to be utilized. If Contractor falls behind schedule do to their own negligence and is not ready for scheduled flaggers, any flagging charges will be paid by Contractor.  Contact Information for Flagging:  UPRR  UPRR		
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□ Expected  ☑ Not Expected  ☐ Not Expected  ☐ Railroad Company: TxDOT will pay flagging invoices. Flagging Agreement with Railroad will be needed  ☑ Outside Party: Contractor will pay flagging invoices to be reimbursed by TxDOT  Contractor must incorporate flaggers into anticipated construction schedule. The Railroad requires a 30-day notice if their flaggers are to be utilized. If Contractor falls behind schedule do to their own negligence and is not ready for scheduled flaggers, any flagging charges will be paid by Contractor.  Contact Information for Flagging:  □ UPRR  □ UP.info@railpros.com  Call Center 877-315-0513, Select #1 for flagging  UP.request@nrssinc.net  Call Center 877-984-677  □ BNSF  BNSFinfo@railprosfs.com  Call Center 877-315-0513, Select #1 for flagging  ☑ KCS  KCS.info@railpros.com  Call Center 877-315-0513, Select #1 for flagging  Bottom Line On-Track Safety Services  bottomline076@aol.com, 903-767-7630		
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<ul> <li>□ Railroad Company: TxDOT will pay flagging invoices. Flagging Agreement with Railroad will be needed</li> <li>☑ Outside Party: Contractor will pay flagging invoices to be reimbursed by TxDOT</li> <li>Contractor must incorporate flaggers into anticipated construction schedule. The Railroad requires a 30-day notice if their flaggers are to be utilized. If Contractor falls behind schedule do to their own negligence and is not ready for scheduled flaggers, any flagging charges will be paid by Contractor.</li> <li>Contact Information for Flagging:</li> <li>□ UPRR</li></ul>	Flores and	
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□ UPRR UP.info@railpros.com Call Center 877-315-0513, Select #1 for flagging UP.request@nrssinc.net Call Center 877-984-677 □ BNSF BNSFinfo@railprosfs.com Call Center 877-315-0513, Select #1 for flagging □ KCS KCS.info@railpros.com Call Center 877-315-0513, Select #1 for flagging Bottom Line On-Track Safety Services bottomline076@aol.com, 903-767-7630	needed	Company: TxDOT will pay flagging invoices. Flagging Agreement with Railroad will be
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□ OTHERS:	needed  ☑ Outside F  Contractor r requires a 3 to their own by Contractor  Contact Info  UPRR  □ BNSF	Company: TxDOT will pay flagging invoices. Flagging Agreement with Railroad will be Party: Contractor will pay flagging invoices to be reimbursed by TxDOT must incorporate flaggers into anticipated construction schedule. The Railroad O-day notice if their flaggers are to be utilized. If Contractor falls behind schedule due negligence and is not ready for scheduled flaggers, any flagging charges will be paid or.  Trimation for Flagging:  UP.info@railpros.com  Call Center 877-315-0513, Select #1 for flagging  UP.request@nrssinc.net  Call Center 877-984-677  BNSFinfo@railprosfs.com  Call Center 877-315-0513, Select #1 for flagging  KCS.info@railpros.com
	needed  ✓ Outside F  Contractor r requires a 3 to their own by Contractor  Contact Info  UPRR  □ BNSF	Company: TxDOT will pay flagging invoices. Flagging Agreement with Railroad will be Party: Contractor will pay flagging invoices to be reimbursed by TxDOT must incorporate flaggers into anticipated construction schedule. The Railroad O-day notice if their flaggers are to be utilized. If Contractor falls behind schedule due negligence and is not ready for scheduled flaggers, any flagging charges will be paid or.  Typical contractor falls behind schedule due negligence and is not ready for scheduled flaggers, any flagging charges will be paid or.  Typical contractor falls behind schedule due negligence and is not ready for scheduled flaggers, any flagging charges will be paid or.  Typical contractor falls behind schedule due negligence and is not ready for scheduled flaggers, any flagging the paid or.  Typical contractor falls behind schedule due negligence and is not ready for schedule due negligence and is not ready for scheduled flaggers, any flagging the paid of
	needed  ✓ Outside F  Contractor r requires a 3 to their own by Contractor  Contact Info  UPRR  □ BNSF  ✓ KCS	Company: TxDOT will pay flagging invoices. Flagging Agreement with Railroad will be Party: Contractor will pay flagging invoices to be reimbursed by TxDOT must incorporate flaggers into anticipated construction schedule. The Railroad O-day notice if their flaggers are to be utilized. If Contractor falls behind schedule due negligence and is not ready for scheduled flaggers, any flagging charges will be paid or.  Formation for Flagging:  UP.info@railpros.com  Call Center 877-315-0513, Select #1 for flagging  UP.request@nrssinc.net  Call Center 877-984-677  BNSFinfo@railprosfs.com  Call Center 877-315-0513, Select #1 for flagging  KCS.info@railpros.com  Call Center 877-315-0513, Select #1 for flagging  Bottom Line On-Track Safety Services  bottomlineO76@aol.com, 903-767-7630

Contractor must incorporate Construction Inspection  ☑ Not Required	into anticipated construction schedule.
<ul> <li>□ Required. Contact Information for Construction In</li> </ul>	spection:
III. CONSTRUCTION WORK TO BE PERFORM	NED BY THE RAILROAD
<ul><li>□ Required. Railroad Point of Contact:</li><li>☑ Not Required</li></ul>	
Coordinate with TxDOT for any work to be performed a work order for any work done by the Railroad Comp	
IV. RAILROAD INSURANCE REQUIREMENTS	5
The Contractor shall confirm the insurance requirement are subject to change without notice.	ents with the Railroad as the insurance limits
Insurance policies and corresponding certificates of on behalf of the Railroad. Separate insurance policie than one Railroad Company is operating on the same Companies are involved and operate on their own se	es and certificates are required when more e right of way, or when several Railroad
No direct compensation will be made to the Contract shown below or any deductibles. These costs are inc	
Escalated L	imits
Type of Insurance	Amount of Coverage (Minimum)
Workers Compensation	\$500,000 / \$500,000 / \$500,000
Commercial General Liability	\$2,000,000 / \$4,000,000
Business Automobile	\$2,000,000
Railroad Protective I	Liability Limits
☐ Not Required	
✓ Non - Bridge/Typical Maintenance Projects. Includes repairs to overpass/underpass and culvert structures	\$2,000,000 / \$6,000,000
☐ Bridge Structure Projects. Includes new construction or replacement of overpass/ underpass structures	\$5,000,000 / \$10,000,000
□ Other:	

☐ Not Required
$\ \square$ Required: UPRR Maintenance Consent Letter. TxDOT to assist
$\ \square$ Required: TxDOT to assist in obtaining the UPRR CROE
☑ Required: Contractor to obtain
☐ BNSF:
☑ KCS
https://jllrpg.360works.com/fmi/webd/rpo_web_kcs.fmp12

To view previously approved CROE templates agreed upon between the State and Railroad, see: https://www.txdot.gov/business/resources/railroad-highway-crossing/sample-right-of-entryagreements.html

Approved CROE templates are not to be modified by the Contractor.

Contractor shall not operate within Railroad Right of Way without an executed Construction & Maintenance Agreement between the State and the Railroad and an executed CROE between the Contractor and the Railroad if required on project.

#### VI. RAILROAD COORDINATION MEETING

A Railroad Coordination Meeting is required. See item 5, Article 8.1, of the Standard Specifications for Construction and Maintenance of Highways, Streets and Bridges Manual for more details.

#### **VII. RAILROAD SAFETY ORIENTATION**

A. Complete the Railroad's course "Orientation for Contractor's Safety," and maintain registration prior to working on the Railroad's property. This course is required to be completed annually by Contractor and Subcontractor personnel working on site.

UPRR, BNSF, KCS/TEXMEX will not accept on-track safety training certificates from other Railroads. Refer to each Railroad's specific contractor right of entry for training information.

Know and follow the Contractor's Right of Entry Agreement EXHIBIT D, MINIMUM SAFETY REQUIREMENTS regarding clothing, personal protective equipment, and general safety requirements.

#### VIII. SUBCONTRACTORS

Contractor shall not subcontract work without written consent of TxDOT. Subcontractors are subject to the same insurance requirements as the Prime Contractor.

#### IX. EMERGENCY NOTIFICATION

In Case of R	ailroad Emergency
Call: Kansas	City Southern Railroad
Railroad Eme	ergency Line at: 877-527-9464
Location: DO	T_900192E
RR Milepost:	0.000
Subdivision:	

**RRD Review Only** Initials: Date: 05/31/2023

	<b>*</b>	
Te	xas Department of Transportation	7

Rail Division

FILE: rr-scop	e-of-work.pdf	DN: TX	DOT	ск:	DW:		ск:
© TxDOT	June 2014	CONT	SECT	JOB		HIG	HWAY
0/0000	REVISIONS	0916	00	228		IH37	, ETC
3/2023							

rr-scope	e-of-work.pdf	DN: Tx	DOT	ск:	DW:	CK:
TxDOT	June 2014	CONT	SECT	JOB		HIGHWAY
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2023		DIST		COUNTY		SHEET NO.
		CRP	1	NUECES	, ETC.	101

DOT No.: 923782R  Crossing Type: IH 37 above RR (highway overpass)  RR Company Operating Track at Crossing: Mansas City Southern Railroad Company  RR Company Owning Track at Crossing: Texas Mexican Railway  RR MP: 158.100  RR Subdivision: Laredo  City: Corpus Christi  County: Nucces  CSJ at this Crossing: 0916-00-228  Scope of Work, including any TCP, to be performed by State Contractor:  The State's Contractor will be refreshing pavement markings and markers through Railroad Right or Way on the facility that carries traffic above the railroad tracks. Any and all pavement markings placed will be to standard. TCP signs and/or channelizers may be within railroad ROW on the facility that carries traffic above the railroad tracks.  Scope of Work to be performed by Railroad Company:  None  II. FLAGGING & INSPECTION  No. of Days of Railroad Flagging Expected: 1  On this project, night or weekend flagging is:  Expected  Not Expected  Not Expected  On this project, night or weekend flagging invoices. Flagging Agreement with Railroad will be needed  Outside Party: Contractor will pay flagging invoices to be reimbursed by TxDOT  Contractor must incorporate flaggers into anticipated construction schedule. The Railroad requires a 30-day notice if their flaggers are to be utilized. If Contractor falls behind schedule to their own negligence and is not ready for scheduled flaggers, any flagging charges will be poly Contractor.  Contact Information for Flagging:  UPRR  UP.Info@railpros.com  Call Center 877-315-0513, Select #1 for flagging  UPrequest@rrssinc.net  Call Center 877-315-0513, Select #1 for flagging  BNSF  BNSFinfo@railpros.com  Call Center 877-315-0513, Select #1 for flagging  Bottom Line On-Track Safety Services  bottomline076@aol.com, 903-767-7630	Crossing Ty RR Compan	23782R
RR Company Operating Track at Crossing: Kansas City Southern Railroad Company RR Company Owning Track at Crossing: Texas Mexican Railway RR Mp. 158.100 RR Mp. 158.100 RR Subdivision: Leredo City: Corpus Christi County: Nueces CSJ at this Crossing: 0916-00-228  Scope of Work, including any TCP, to be performed by State Contractor:  The State's Contractor will be refreshing pavement markings and markers through Railroad Right of Way on the facility that carries traffic above the railroad tracks. Any and all pavement markings placed will be to standard. TCP signs and/or channelizers may be within railroad ROW on the facilit that carries traffic above the railroad Company:  None  II. FLAGGING & INSPECTION  No. of Days of Railroad Flagging Expected: 1 On this project, night or weekend flagging is: Expected Not Expected Not Expected Not Expected Plagging services will be provided by: Railroad Company: TxDOT will pay flagging invoices. Flagging Agreement with Railroad will be needed Outside Party: Contractor will pay flagging invoices to be reimbursed by TxDOT Contractor must incorporate flaggers are to be utilized. If Contractor falls behind schedule to their own negligence and is not ready for scheduled flaggers, any flagging charges will be provided their own negligence and is not ready for scheduled flaggers, any flagging charges will be provided their own negligence and is not ready for scheduled flaggers, any flagging charges will be provided their own negligence and is not ready for scheduled flaggers, any flagging charges will be provided their own negligence and is not ready for scheduled flaggers.  UPR UP.info@railpros.com Call Center 877-315-0513, Select #1 for flagging UP: equest@rrssinc.net Call Center 877-315-0513, Select #1 for flagging EKCS KCS.info@railpros.com Call Center 877-315-0513, Select #1 for flagging Bottom Line On-Track Safety Services bottomline076@aol.com, 903-767-7630	RR Compan	
RR Company Owning Track at Crossing: Texas Mexican Railway  RR MP: 155.100  RR Subdivision: Leredo  City: Corpus Christi  County: Nueces  CSJ at this Crossing: 0916-00-228  Scope of Work, including any TCP, to be performed by State Contractor:  The State's Contractor will be refreshing pavement markings and markers through Railroad Right C Way on the facility that carries traffic above the railroad tracks. Any and all pavement markings placed will be to standard. TCP signs and/or channelizers may be within railroad ROW on the facilit that carries traffic above the railroad tracks.  Scope of Work to be performed by Railroad Company:  None  II. FLAGGING & INSPECTION  No. of Days of Railroad Flagging Expected: 1 On this project, night or weekend flagging is: Expected Not Expected Not Expected Not Expected Not Expected On this project, night or weekend flagging invoices. Flagging Agreement with Railroad will be needed On Outside Party: Contractor will pay flagging invoices to be reimbursed by TxDOT  Contractor must incorporate flaggers into anticipated construction schedule. The Railroad requires a 30-day notice if their flaggers are to be utilized. If Contractor falls behind schedule to their own negligence and is not ready for scheduled flaggers, any flagging charges will be performed to flaggers into anticipated construction schedule. The Railroad requires a 30-day notice if their flaggers are to be utilized. If Contractor falls behind schedule to their own negligence and is not ready for scheduled flaggers, any flagging charges will be performed to flagging.  UPRequest@nrssinc.net Call Center 877-315-0513, Select #1 for flagging UPrequest@nrssinc.net Call Center 877-315-0513, Select #1 for flagging RCS. Info@railprost.com Call Center 877-315-0513, Select #1 for flagging BNSF Info@railprost.com Call Center 877-315-0513, Select #1 for flagging Bottom Line On-Track Safety Services bottomline 076-08-01.com, 903-767-7630		•
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Contractor must incorporate Construction Inspection	into anticipated construction schedule.
<ul><li>☑ Not Required</li><li>☐ Required. Contact Information for Construction In</li></ul>	spection:
III. CONSTRUCTION WORK TO BE PERFORM	NED BY THE RAILROAD
<ul> <li>□ Required. Railroad Point of Contact:</li> <li>☑ Not Required</li> </ul>	
Coordinate with TxDOT for any work to be performed a work order for any work done by the Railroad Comp	
IV. RAILROAD INSURANCE REQUIREMENTS	6
The Contractor shall confirm the insurance requirem are subject to change without notice.	ents with the Railroad as the insurance limits
Insurance policies and corresponding certificates of on behalf of the Railroad. Separate insurance policie than one Railroad Company is operating on the same Companies are involved and operate on their own se	es and certificates are required when more e right of way, or when several Railroad
No direct compensation will be made to the Contract shown below or any deductibles. These costs are incompensation will be made to the Contract shown below or any deductibles.	
Escalated L	imits
Type of Insurance	Amount of Coverage (Minimum)
Workers Compensation	\$500,000 / \$500,000 / \$500,000
Commercial General Liability	\$2,000,000 / \$4,000,000
Business Automobile	\$2,000,000
Railroad Protective I	Liability Limits
	<b>,</b>
□ Not Required	#0.000.000 / #0.000.000
Non - Bridge/Typical Maintenance Projects. Includes repairs to overpass/underpass and culvert structures	\$2,000,000 / \$6,000,000
☐ Bridge Structure Projects. Includes new construction or replacement of overpass/ underpass structures	\$5,000,000 / \$10,000,000
□ Other:	
L	

☐ Not Required
$\ \square$ Required: UPRR Maintenance Consent Letter. TxDOT to assist
$\ \square$ Required: TxDOT to assist in obtaining the UPRR CROE
☑ Required: Contractor to obtain
☐ BNSF:
KCS https://jllrpg.360works.com/fmi/webd/rpo_web_kcs.fmp12
☐ Other Railroads:

To view previously approved CROE templates agreed upon between the State and Railroad, see: https://www.txdot.gov/business/resources/railroad-highway-crossing/sample-right-of-entry-agreements.html

Approved CROE templates are not to be modified by the Contractor.

Contractor shall not operate within Railroad Right of Way without an executed Construction & Maintenance Agreement between the State and the Railroad and an executed CROE between the Contractor and the Railroad if required on project.

#### VI. RAILROAD COORDINATION MEETING

A Railroad Coordination Meeting is required. See item 5, Article 8.1, of the Standard Specifications for Construction and Maintenance of Highways, Streets and Bridges Manual for more details.

#### VII. RAILROAD SAFETY ORIENTATION

A. Complete the Railroad's course "Orientation for Contractor's Safety," and maintain registration prior to working on the Railroad's property. This course is required to be completed annually by Contractor and Subcontractor personnel working on site.

UPRR, BNSF, KCS/TEXMEX will not accept on-track safety training certificates from other Railroads. Refer to each Railroad's specific contractor right of entry for training information.

Know and follow the Contractor's Right of Entry Agreement EXHIBIT D, MINIMUM SAFETY REQUIREMENTS regarding clothing, personal protective equipment, and general safety requirements.

#### VIII. SUBCONTRACTORS

Contractor shall not subcontract work without written consent of TxDOT. Subcontractors are subject to the same insurance requirements as the Prime Contractor.

#### IX. EMERGENCY NOTIFICATION

In Case of Railroad Emergency	
Call: Kansas City Southern Railroad	
Railroad Emergency Line at: 877-527-9464	
Location: DOT 923782R	
RR Milepost: 158.100	
Subdivision: Laredo	
	_

 Texas Department of Transportation

Rail Division

### RAILROAD SCOPE OF WORK

FILE: rr-scope	e-of-work.pdf	DN: TX	DOT	ск:	DW:	ск:
© TxDOT	June 2014	CONT	SECT	JOB		HIGHWAY
0,0000	REVISIONS	0916	00	228	IH	137, ETC.
3/2023		DIST		COUNTY		SHEET NO.
		CRP	N	UECES,	ETC.	102

DOT No.: 435566B  Crossing Type: IH 37 MBML above RR (highway overpass)  RR Company Operating Track at Crossing: Union Pacific Railroad Company  RR Company Owning Track at Crossing: Union Pacific Railroad Company  RR MP: 126-430  RR Subdivision: Corpus Christi  City: Edroy  County: San Patricio  CSJ at this Crossing: 0916-00-228  Scope of Work, including any TCP, to be performed by State Contractor:  The State's Contractor will be refreshing pavement markings and markers on the facility (highway overpass) that runs above the Railroad Tracks within 135 feet of Railroad Right of Way. Any and all pavement markings placed will be to standard. TCP signs and/or channelizers may be within railroad ROW on the facility that carries traffic above the railroad tracks.  Scope of Work to be performed by Railroad Company:  None  II. FLAGGING & INSPECTION  No. of Days of Railroad Flagging Expected: 1  On this project, night or weekend flagging is:   Expected  Not Expected  Not Expected  Railroad Company: TxDOT will pay flagging invoices. Flagging Agreement with Railroad will be needed  Outside Party: Contractor will pay flagging invoices to be reimbursed by TxDOT  Contractor must incorporate flaggers into anticipated construction schedule. The Railroad requires a 30-day notice if their flaggers are to be utilized. If Contractor falls behind schedule due to their own negligence and is not ready for scheduled flaggers, any flagging charges will be paid by Contractor.  Contact Information for Flagging:  UPRR UPING@railpros.com Call Center 877-984-677  BNSF BNSFinfo@railpros.com Call Center 877-315-0513, Select #1 for flagging   KCS Info@railpros.com Call Center 877-315-0513, Select #1 for flagging Bottom Line On-Track Safety Services bottomline 076@aol.com, 903-767-7630	☐ This pro	ect is adjacent or parallel work, not within RR ROW:
RR Company Operating Track at Crossing: Union Pacific Railroad Company RR Company Owning Track at Crossing: Union Pacific Railroad Company RR MP; 126.430 RR MP; 126.430 RR Subdivision: Corpus Christi City: Edroy County: San Patricio CSJ at this Crossing: 0916-00-228  Scope of Work, including any TCP, to be performed by State Contractor:  The State's Contractor will be refreshing pavement markings and markers on the facility (highway overpass) that runs above the Railroad Tracks within 135 feet of Railroad Right of Way. Any and all pavement markings placed will be to standard. TCP signs and/or channelizers may be within railroad ROW on the facility that carries traffic above the railroad tracks.  Scope of Work to be performed by Railroad Company:  None  II. FLAGGING & INSPECTION  No. of Days of Railroad Flagging Expected: 1 On this project, night or weekend flagging is:  Expected  Not Expected  Not Expected  Not Expected  Ontriac Company: TxDOT will pay flagging invoices. Flagging Agreement with Railroad will be needed  Outside Party: Contractor will pay flagging invoices to be reimbursed by TxDOT  Contractor must incorporate flaggers into anticipated construction schedule. The Railroad requires a 30-day notice if their flaggers are to be utilized. If Contractor falls behind schedule due to their own negligence and is not ready for scheduled flaggers, any flagging charges will be paid by Contractor.  Contact Information for Flagging:  UPRR  UP.info@railpros.com Call Center 877-315-0513, Select #1 for flagging UP:equest@rrssinc.net Call Center 877-315-0513, Select #1 for flagging Sottom Line On-Track Safety Services bottomline On-Track Safety Services bottomline On-Track Safety Services bottomline On-Flagolocom, 903-767-7630		
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RR MP: 126.430 RR Subdivision: Corpus Christi City: Edroy County: San Patricio CSJ at this Crossing: 0916-00-228 Scope of Work, including any TCP, to be performed by State Contractor:  The State's Contractor will be refreshing pavement markings and markers on the facility (highway overpass) that runs above the Railroad Tracks within 135 feet of Railroad Right of Way. Any and all pavement markings placed will be to standard. TCP signs and/or channelizers may be within railroad ROW on the facility that carries traffic above the railroad tracks.  Scope of Work to be performed by Railroad Company:  None  II. FLAGGING & INSPECTION  No. of Days of Railroad Flagging Expected: 1 On this project, night or weekend flagging is:  Expected  Not Expected  Railroad Company: TxDOT will pay flagging invoices. Flagging Agreement with Railroad will be needed  Outside Party: Contractor will pay flagging invoices to be reimbursed by TxDOT  Contractor must incorporate flaggers into anticipated construction schedule. The Railroad requires a 30-day notice if their flaggers are to be utilized. If Contractor falls behind schedule due to their own negligence and is not ready for scheduled flaggers, any flagging charges will be paid by Contractor.  Contact Information for Flagging:  UPIR UPInfo@railpros.com Call Center 877-315-0513, Select #1 for flagging UP:request@rrssinc.net Call Center 877-315-0513, Select #1 for flagging  KCS. Info@railpros.com Call Center 877-315-0513, Select #1 for flagging Bottom Line On-Track Safety Services bottomline 076@aol.com, 903-767-7630		
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Contractor must incorporate Construction Inspection	into anticipated construction schedule.
<ul><li>☑ Not Required</li><li>☐ Required. Contact Information for Construction In</li></ul>	spection:
III. CONSTRUCTION WORK TO BE PERFORM	NED BY THE RAILROAD
☐ Required. Railroad Point of Contact:	
✓ Not Required	
Coordinate with TxDOT for any work to be performed a work order for any work done by the Railroad Comp	
IV. RAILROAD INSURANCE REQUIREMENTS	3
The Contractor shall confirm the insurance requirem are subject to change without notice.	ents with the Railroad as the insurance limits
Insurance policies and corresponding certificates of on behalf of the Railroad. Separate insurance policie than one Railroad Company is operating on the same Companies are involved and operate on their own se	es and certificates are required when more e right of way, or when several Railroad
No direct compensation will be made to the Contract shown below or any deductibles. These costs are incompensation will be made to the Contract shown below or any deductibles.	
Escalated L	imits
Type of Insurance	Amount of Coverage (Minimum)
Workers Compensation	\$500,000 / \$500,000 / \$500,000
Commercial General Liability	\$2,000,000 / \$4,000,000
Business Automobile	\$2,000,000
Railroad Protective I	Liability Limits
☐ Not Required	
<ul> <li>Non - Bridge/Typical Maintenance Projects.</li> <li>Includes repairs to overpass/underpass and culvert structures</li> </ul>	\$2,000,000 / \$6,000,000
☐ Bridge Structure Projects. Includes new construction or replacement of overpass/ underpass structures	\$5,000,000 / \$10,000,000
□ Other:	

☐ Not Required
☑ Required: UPRR Maintenance Consent Letter. TxDOT to assist
$\square$ Required: TxDOT to assist in obtaining the UPRR CROE
☐ Required: Contractor to obtain
☐ BNSF:
☐ KCS https://jllrpg.360works.com/fmi/webd/rpo_web_kcs.fmp12
☐ Other Railroads:

To view previously approved CROE templates agreed upon between the State and Railroad, see: https://www.txdot.gov/business/resources/railroad-highway-crossing/sample-right-of-entry-agreements.html

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#### IX. EMERGENCY NOTIFICATION

In Case of Railroad Emergency	
Call: Union Pacific Railroad Company	
Railroad Emergency Line at: 800-848-8715	
Location: DOT 435566B	
RR Milepost: 126.430	
Subdivision: Kosmos Ind Ld	



Rail Division

FILE: rr-scop	e-of-work.pdf	DN: TX	DOT	ск:	DW:		ск:
© TxDOT	June 2014	CONT	SECT	JOB		н	IGHWAY
0/0000	REVISIONS	0916	00	228		IH3	7, ETC.
3/2023		DIST		COUNTY			SHEET NO.
		CRD		JUECES ET	_		103

DOT No.: 435 Crossing Type RR Company ( RR Company ( RR MP: 126.4 RR Subdivisio City: Edroy County: San F CSJ at this Cro Scope of Work The State's C overpass) the pavement ma ROW on the f  Scope of Work None  II. FLAGG No. of Days of On this project Expected Not Expected Not Expected Not Expected Railroad Coneeded Outside Pa Contractor morequires a 30-	H 37 SBML above RR (highway overpass)  Operating Track at Crossing: Union Pacific Railroad Company  Owning Track at Crossing: Union Pacific Railroad Company  410  In: Corpus Christi
RR Company ( RR Company ( RR Company ( RR MP: 126.4 RR Subdivisio City: Edroy County: San F CSJ at this Cro Scope of Work The State's C overpass) that pavement material ROW on the f  Scope of Work None  II. FLAGG No. of Days of On this project Expected Not Expected Not Expected Not Expected Contractor materials a 30- to their own not the thei	Operating Track at Crossing: Union Pacific Railroad Company Owning Track at Crossing: Union Pacific Railroad Company 410  Patricio Ossing: O916-00-228  k, including any TCP, to be performed by State Contractor: Contractor will be refreshing pavement markings and markers on the facility (highway at runs above the Railroad Tracks within 139 feet of Railroad Right of Way. AAny and all arkings placed will be to standard. TCP signs and/or channelizers may be within railroad facility that carries traffic above the railroad tracks.  k to be performed by Railroad Company:  AING & INSPECTION  f Railroad Flagging Expected: 1
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II. FLAGG  No. of Days of On this projec  □ Expected  ☑ Not Expect  □ Railroad Coneeded  ☑ Outside Pa  Contractor murequires a 30- to their own notes.	f Railroad Flagging Expected: 1
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✓ Not Expect Flagging servi ☐ Railroad Coneeded ✓ Outside Pa Contractor murequires a 30- to their own not	
Flagging servi Railroad Coneeded Outside Pa Contractor murequires a 30-to their own no	ted
☐ Railroad Coneeded ☐ Outside Pa Contractor murequires a 30- to their own no	
<ul> <li>Outside Pa</li> <li>Contractor murequires a 30-to their own notes</li> </ul>	ices will be provided by:  pmpany: TxDOT will pay flagging invoices. Flagging Agreement with Railroad will be
requires a 30- to their own n	arty: Contractor will pay flagging invoices to be reimbursed by TxDOT
	ust incorporate flaggers into anticipated construction schedule. The Railroad -day notice if their flaggers are to be utilized. If Contractor falls behind schedule due egligence and is not ready for scheduled flaggers, any flagging charges will be paid
Contact Inforn	nation for Flagging:
	UP.info@railpros.com Call Center 877-315-0513, Select #1 for flagging
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□ OTHERS:	Bottom Line On-Track Safety Services bottomline076@aol.com, 903-767-7630

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IV. RAILROAD INSURANCE REQUIREMENTS	5
The Contractor shall confirm the insurance requirem are subject to change without notice.	ents with the Railroad as the insurance limits
Insurance policies and corresponding certificates of on behalf of the Railroad. Separate insurance policie than one Railroad Company is operating on the same Companies are involved and operate on their own se	es and certificates are required when more e right of way, or when several Railroad
No direct compensation will be made to the Contract shown below or any deductibles. These costs are inc	
Escalated L	imits
Type of Insurance	Amount of Coverage (Minimum)
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Railroad Protective I	Liability Limits
□ Not Required	#2.000.000 / #C.000.000
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□ Other:	

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·
Required: UPRR Maintenance Consent Letter. TxDOT to assist
Required: TxDOT to assist in obtaining the UPRR CROE
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□ BNSF:
https://bnsf.railpermitting.com
https://bnsf.railpermitting.com  ☐ KCS

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Location: DOT 435567H	
RR Milepost: 126.410	
Subdivision: Kosmos Ind Ld	



Rail Division

FILE: rr-scop	e-of-work.pdf	DN: TX	DOT	ск:	DW:		ск:
© TxDOT	June 2014	CONT	SECT	JOB		н	GHWAY
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3/2023		DIST		COUNTY			SHEET NO.
		CRP		NILIECES ET	~		104

	ect is adjacent or parallel work, not within RR ROW:
DOT No.: 4	
	pe: At Grade on BS 359B
	y Operating Track at Crossing: Union Pacific Railroad Company
RR Compan RR MP:  11	y Owning Track at Crossing: Union Pacific Railroad Company
	Sion: Corpus Christi
City: Mathis	
County: Sa	
	Crossing: 0916-00-228
Scope of W	ork, including any TCP, to be performed by State Contractor:
within Raili two-way tra channelize through rai cross the r	s Contractor will be refreshing pavement markings and markers up to the Railroad Tracks road Right of Way. Any and all pavement markings placed will be to standard. One lane, affic control operations will be implemented through railroad ROW. No TCP signs or are will be within railroad ROW. RR flagging to be provided for entire duration of TCP illroad ROW. If Contractor creates a traffic contra-flow condition that causes vehicles to ailroad tracks in an opposing lane, a railroad flagger is also required to be on-site for the fithe contra-flow traffic control plan within railroad ROW.
Scope of W	ork to be performed by Railroad Company:
None	
None	
None	
	GGING & INSPECTION
II. FLAG	
II. FLAC	of Railroad Flagging Expected: 1
II. FLAG No. of Days On this proj	of Railroad Flagging Expected: 1 ect, night or weekend flagging is:
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<ul><li>☑ Not Required</li><li>☐ Required. Contact Information for Construction Ir</li></ul>	nspection:
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No direct compensation will be made to the Contrac shown below or any deductibles. These costs are in	
	cidental to the various bid items.
shown below or any deductibles. These costs are in	cidental to the various bid items.
shown below or any deductibles. These costs are in  Escalated I	cidental to the various bid items.
shown below or any deductibles. These costs are in  Escalated I  Type of Insurance	Limits  Amount of Coverage (Minimum)
Escalated I  Type of Insurance  Workers Compensation	Limits  Amount of Coverage (Minimum) \$500,000 / \$500,000 / \$500,000
Escalated I  Type of Insurance Workers Compensation Commercial General Liability	Amount of Coverage (Minimum) \$500,000 / \$500,000 / \$500,000 \$2,000,000 / \$4,000,000
Escalated I  Type of Insurance Workers Compensation Commercial General Liability	Amount of Coverage (Minimum) \$500,000 / \$500,000 / \$500,000 \$2,000,000 / \$4,000,000 \$2,000,000
Escalated I  Type of Insurance Workers Compensation Commercial General Liability Business Automobile	Amount of Coverage (Minimum) \$500,000 / \$500,000 / \$500,000 \$2,000,000 / \$4,000,000 \$2,000,000
Escalated I  Type of Insurance Workers Compensation Commercial General Liability Business Automobile  Railroad Protective	Amount of Coverage (Minimum) \$500,000 / \$500,000 / \$500,000 \$2,000,000 / \$4,000,000 \$2,000,000
Escalated I  Type of Insurance Workers Compensation Commercial General Liability Business Automobile  Railroad Protective  Not Required  Non - Bridge/Typical Maintenance Projects. Includes repairs to overpass/underpass and	Amount of Coverage (Minimum) \$500,000 / \$500,000 / \$500,000 \$2,000,000 / \$4,000,000 \$2,000,000

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☐ Required: Contractor to obtain
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☐ KCS https://jllrpg.360works.com/fmi/webd/rpo_web_kcs.fmp12
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Location: DOT 435588B
RR Milepost: 113.180
Subdivision: Corpus Christi



Rail Division

# RAILROAD SCOPE OF WORK PROJECT SPECIFIC DETAILS

TROJECT OF ECITIO DETAILS

FILE: rr-scop	e-of-work.pdf	DN: Tx	DOT	ск:	DW:	ск:
© TxDOT	June 2014	CONT	SECT	JOB		HIGHWAY
0/0000	REVISIONS	0916	00	228	IH	137, ETC.
3/2023		DIST		COUNTY		SHEET NO.
		CRP		NUECES ET	rc.	105

☐ This pro	ect is adjacent or parallel work, not within RR ROW:
	46199E (closed)
Crossing Ty	pe: At Grade at Magnolia St (closed/abandoned)
	y Operating Track at Crossing: Union Pacific Railroad Company
	y Owning Track at Crossing: Union Pacific Railroad Company
RR MP: <u>13</u>	
	Sion: Corpus Christi
City: Mathi	
County: Sa	
CSJ at this	Crossing: <u>0916-00-228</u>
Scope of W	ork, including any TCP, to be performed by State Contractor:
Way acros	s Contractor will be refreshing pavement markings and markers through Railroad Right of s this closed crossing (closed tracks). Any and all pavement markings placed will be to TCP signs and/or channelizers will be within railroad ROW across this closed crossing.
Scope of W	ork to be performed by Railroad Company:
None	
II. FLA	GGING & INSPECTION  of Railroad Flagging Expected: 0
II. FLA	of Railroad Flagging Expected: 0 ect, night or weekend flagging is:
II. FLAC  No. of Days  On this proj  □ Expected  ☑ Not Expect	of Railroad Flagging Expected: 0 ect, night or weekend flagging is:
II. FLAG  No. of Days  On this proj  □ Expected  ☑ Not Expe	of Railroad Flagging Expected: 0 ect, night or weekend flagging is:
II. FLAG  No. of Days  On this proj  Expected  Not Expect  Flagging see  Railroad  needed	of Railroad Flagging Expected: 0 ect, night or weekend flagging is: dected rvices will be provided by:
II. FLAC  No. of Days  On this proj  Expectee  ✓ Not Expe  Flagging se  ☐ Railroad needed  ✓ Outside  Contractor requires a 3	of Railroad Flagging Expected: 0 ect, night or weekend flagging is: dected rvices will be provided by: Company: TxDOT will pay flagging invoices. Flagging Agreement with Railroad will be Party: Contractor will pay flagging invoices to be reimbursed by TxDOT must incorporate flaggers into anticipated construction schedule. The Railroad 80-day notice if their flaggers are to be utilized. If Contractor falls behind schedule due a negligence and is not ready for scheduled flaggers, any flagging charges will be paid
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Contractor must incorporate Construction Inspection  ✓ Not Required	into anticipated construction schedule.
☐ Required. Contact Information for Construction In	spection:
III. CONSTRUCTION WORK TO BE PERFORM	MED BY THE RAILROAD
<ul> <li>□ Required. Railroad Point of Contact:</li> <li>☑ Not Required</li> </ul>	
Coordinate with TxDOT for any work to be performed a work order for any work done by the Railroad Comp	
IV. RAILROAD INSURANCE REQUIREMENTS	3
The Contractor shall confirm the insurance requirem are subject to change without notice.	ents with the Railroad as the insurance limits
Insurance policies and corresponding certificates of on behalf of the Railroad. Separate insurance policie than one Railroad Company is operating on the same Companies are involved and operate on their own se	es and certificates are required when more e right of way, or when several Railroad
No direct compensation will be made to the Contract shown below or any deductibles. These costs are inc	
Escalated L	imits
Type of Insurance	Amount of Coverage (Minimum)
Workers Compensation	\$500,000 / \$500,000 / \$500,000
Commercial General Liability	\$2,000,000 / \$4,000,000
Business Automobile	\$2,000,000
Railroad Protective I	Liability Limits
☐ Not Required	
<ul> <li>Non - Bridge/Typical Maintenance Projects.</li> <li>Includes repairs to overpass/underpass and culvert structures</li> </ul>	\$2,000,000 / \$6,000,000
<ul> <li>□ Bridge Structure Projects. Includes new construction or replacement of overpass/ underpass structures</li> <li>□ Other:</li> </ul>	\$5,000,000 / \$10,000,000

☐ Not Required
☑ Required: UPRR Maintenance Consent Letter. TxDOT to assist
$\ \square$ Required: TxDOT to assist in obtaining the UPRR CROE
☐ Required: Contractor to obtain
☐ BNSF:
☐ KCS https://jllrpg.360works.com/fmi/webd/rpo_web_kcs.fmp12
☐ Other Railroads:

To view previously approved CROE templates agreed upon between the State and Railroad, see: https://www.txdot.gov/business/resources/railroad-highway-crossing/sample-right-of-entry-agreements.html

Approved CROE templates are not to be modified by the Contractor.

Contractor shall not operate within Railroad Right of Way without an executed Construction & Maintenance Agreement between the State and the Railroad and an executed CROE between the Contractor and the Railroad if required on project.

#### VI. RAILROAD COORDINATION MEETING

A Railroad Coordination Meeting is required. See item 5, Article 8.1, of the Standard Specifications for Construction and Maintenance of Highways, Streets and Bridges Manual for more details.

#### **VII. RAILROAD SAFETY ORIENTATION**

A. Complete the Railroad's course "Orientation for Contractor's Safety," and maintain registration prior to working on the Railroad's property. This course is required to be completed annually by Contractor and Subcontractor personnel working on site.

UPRR, BNSF, KCS/TEXMEX will not accept on-track safety training certificates from other Railroads. Refer to each Railroad's specific contractor right of entry for training information.

Know and follow the Contractor's Right of Entry Agreement EXHIBIT D, MINIMUM SAFETY REQUIREMENTS regarding clothing, personal protective equipment, and general safety requirements.

#### VIII. SUBCONTRACTORS

Contractor shall not subcontract work without written consent of TxDOT. Subcontractors are subject to the same insurance requirements as the Prime Contractor.

#### IX. EMERGENCY NOTIFICATION

In Case of Railroad Emergency	
Call: Union Pacific Railroad Company	
Railroad Emergency Line at: 800-848-8715	
Location: DOT 746199E	
RR Milepost: 13.750	
Subdivision: Corpus Christi	

RRD Review Only
Initials:
Date: 06/05/2023



DOAD COODE OF WORK

Division

FILE: rr-scop	e-of-work.pdf	DN: Tx	DOT	CK: E	w:	ск:
© TxDOT	June 2014	CONT	SECT	JOB		HIGHWAY
0/0000	REVISIONS	0916	00	228	II-	137, ETC.
3/2023		DIST		COUNTY		SHEET NO.
		CRP		NUIECES ETC	`	106

	ect is adjacent or parallel work, not within RR ROW: 46201D (closed)
	oe: At Grade at Chiltipin St (closed/abandoned)
	y Operating Track at Crossing: Union Pacific Railroad Company
	y Owning Track at Crossing: Union Pacific Railroad Company
RR MP: 112	
	ion: Corpus Christi
City: Mathis	
County: Sai	
	Crossing: _0916-00-228
Scope of W	ork, including any TCP, to be performed by State Contractor:
Way across	Contractor will be refreshing pavement markings and markers through Railroad Right of sthis closed crossing (closed tracks). Any and all pavement markings placed will be to TCP signs and/or channelizers will be within railroad ROW across this closed crossing.
Scope of We	ork to be performed by Railroad Company:
None	
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Contractor must incorporate Construction Inspection  ☑ Not Required  ☐ Required. Contact Information for Construction Ir	·
III. CONSTRUCTION WORK TO BE PERFORM	MED BY THE RAILROAD
☐ Required. Railroad Point of Contact:  ☑ Not Required	
Coordinate with TxDOT for any work to be performed a work order for any work done by the Railroad Comp	
IV. RAILROAD INSURANCE REQUIREMENTS	S
The Contractor shall confirm the insurance requirem are subject to change without notice.	ents with the Railroad as the insurance limits
Insurance policies and corresponding certificates of on behalf of the Railroad. Separate insurance policie than one Railroad Company is operating on the sam Companies are involved and operate on their own see	es and certificates are required when more e right of way, or when several Railroad
No direct compensation will be made to the Contrac shown below or any deductibles. These costs are inc	-
Escalated L	imits
Type of Insurance	Amount of Coverage (Minimum)
Workers Compensation	\$500,000 / \$500,000 / \$500,000
Commercial General Liability	\$2,000,000 / \$4,000,000
Business Automobile	\$2,000,000
Railroad Protective	Liability Limits
☐ Not Required	
<ul> <li>Non - Bridge/Typical Maintenance Projects.</li> <li>Includes repairs to overpass/underpass and culvert structures</li> </ul>	\$2,000,000 / \$6,000,000
☐ Bridge Structure Projects. Includes new construction or replacement of overpass/ underpass structures	\$5,000,000 / \$10,000,000
□ Other:	

☐ Not Required
☑ Required: UPRR Maintenance Consent Letter. TxDOT to assist
$\ \square$ Required: TxDOT to assist in obtaining the UPRR CROE
☐ Required: Contractor to obtain
☐ BNSF:
☐ KCS https://jllrpg.360works.com/fmi/webd/rpo_web_kcs.fmp12
☐ Other Railroads:

To view previously approved CROE templates agreed upon between the State and Railroad, see: https://www.txdot.gov/business/resources/railroad-highway-crossing/sample-right-of-entry-agreements.html

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#### IX. EMERGENCY NOTIFICATION

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Call: Union Pacific Railroad Company	
Railroad Emergency Line at: 800-848-8715	
Location: DOT 746201D	
RR Milepost: 112.600	
Subdivision: Corpus Christi	

RRD Review Only
Initials: _______

Date: _______06/05/2023



Division

FILE: TT-SCOP	e-of-work.pdf	DN: Tx	DOT	ск:	DW:	ск:
© TxDOT	June 2014	CONT	SECT	JOB		HIGHWAY
0/0000	REVISIONS	0916	00	228	IH	37, ETC.
3/2023		DIST		COUNTY		SHEET NO.
		CRP	NI	JECES, ETC		107

DOT No.: $\frac{7}{2}$	ject is adjacent or parallel work, not within RR ROW: 46202K
	pe: At Grade on Fulton St
	ny Operating Track at Crossing: Union Pacific Railroad Company
	ny Owning Track at Crossing: Union Pacific Railroad Company
RR MP: <u>11</u>	
RR Subdivi	sion: Corpus Christi
City: Mathi	
County: Sa	n Patricio
CSJ at this	Crossing: _0916-00-228
Scope of W	ork, including any TCP, to be performed by State Contractor:
the railroa ROW at th	s Contractor will be refreshing pavement markings and markers on the facility parallel to d tracks outside of railroad ROW. Traffic control may be implemented through railroad e county road cross street. No TCP channelizers will be within railroad ROW. RR flagging to d for the entire duration of TCP through railroad ROW.
Scope of W	ork to be performed by Railroad Company:
	GGING & INSPECTION
	GGING & INSPECTION s of Railroad Flagging Expected: 1
No. of Days	
No. of Days On this pro □ Expecte	of Railroad Flagging Expected: 1 ject, night or weekend flagging is:
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No. of Days On this pro Expecte Not Expe Railroad needed Outside Contractor requires a sto their owr by Contract	s of Railroad Flagging Expected:  dect, night or weekend flagging is: dected rvices will be provided by: Company: TxDOT will pay flagging invoices. Flagging Agreement with Railroad will be Party: Contractor will pay flagging invoices to be reimbursed by TxDOT must incorporate flaggers into anticipated construction schedule. The Railroad 30-day notice if their flaggers are to be utilized. If Contractor falls behind schedule due in negligence and is not ready for scheduled flaggers, any flagging charges will be paid for.  ormation for Flagging:  UP.info@railpros.com Call Center 877-315-0513, Select #1 for flagging  UP.request@nrssinc.net Call Center 877-984-677  BNSFinfo@railprosfs.com
No. of Days On this pro Expecte Not Expe Railroad needed Outside Contractor requires a 3 to their owr by Contract Contact Inf	s of Railroad Flagging Expected:   dect, night or weekend flagging is: dected rvices will be provided by: Company: TxDOT will pay flagging invoices. Flagging Agreement with Railroad will be Party: Contractor will pay flagging invoices to be reimbursed by TxDOT must incorporate flaggers into anticipated construction schedule. The Railroad 30-day notice if their flaggers are to be utilized. If Contractor falls behind schedule due in negligence and is not ready for scheduled flaggers, any flagging charges will be paid for.  ormation for Flagging:  UP.info@railpros.com Call Center 877-315-0513, Select #1 for flagging  UP.request@nrssinc.net Call Center 877-984-677
No. of Days On this pro Expecte Not Expe Railroad needed Outside Contractor requires a s to their owr by Contract Contact Inf UPRR	s of Railroad Flagging Expected: 1 ject, night or weekend flagging is: d ected rvices will be provided by: Company: TxDOT will pay flagging invoices. Flagging Agreement with Railroad will be Party: Contractor will pay flagging invoices to be reimbursed by TxDOT must incorporate flaggers into anticipated construction schedule. The Railroad 30-day notice if their flaggers are to be utilized. If Contractor falls behind schedule due in negligence and is not ready for scheduled flaggers, any flagging charges will be paid for.  ormation for Flagging: UP.info@railpros.com Call Center 877-315-0513, Select #1 for flagging UP.request@nrssinc.net Call Center 877-984-677 BNSFinfo@railprosfs.com Call Center 877-315-0513, Select #1 for flagging KCS.info@railpros.com

Contractor must incorporate Construction Inspection	into anticipated construction schedule.
<ul><li>☑ Not Required</li><li>☐ Required. Contact Information for Construction Ir</li></ul>	espection:
III. CONSTRUCTION WORK TO BE PERFORI	MED BY THE RAILROAD
☐ Required. Railroad Point of Contact:	
☑ Not Required  Coordinate with TxDOT for any work to be performed a work order for any work done by the Railroad Comp  The state of the complex of the Railroad Complex or the compl	
IV. RAILROAD INSURANCE REQUIREMENTS	S
The Contractor shall confirm the insurance requirem are subject to change without notice.	ents with the Railroad as the insurance limits
Insurance policies and corresponding certificates of on behalf of the Railroad. Separate insurance policie than one Railroad Company is operating on the sam Companies are involved and operate on their own se	es and certificates are required when more e right of way, or when several Railroad
No direct compensation will be made to the Contrac shown below or any deductibles. These costs are in	
Escalated I	imits
Type of Insurance	Amount of Coverage (Minimum)
Workers Compensation	\$500,000 / \$500,000 / \$500,000
Commercial General Liability	\$2,000,000 / \$4,000,000
Business Automobile	\$2,000,000
Railroad Protective	Liability Limits
☐ Not Required	
<ul> <li>Non - Bridge/Typical Maintenance Projects.</li> <li>Includes repairs to overpass/underpass and culvert structures</li> </ul>	\$2,000,000 / \$6,000,000
☐ Bridge Structure Projects. Includes new construction or replacement of overpass/ underpass structures	\$5,000,000 / \$10,000,000
☐ Other:	

☐ Not Required
☑ Required: UPRR Maintenance Consent Letter. TxDOT to assist
$\ \square$ Required: TxDOT to assist in obtaining the UPRR CROE
☐ Required: Contractor to obtain
☐ BNSF:
☐ KCS https://jllrpg.360works.com/fmi/webd/rpo_web_kcs.fmp12
☐ Other Railroads:

To view previously approved CROE templates agreed upon between the State and Railroad, see: https://www.txdot.gov/business/resources/railroad-highway-crossing/sample-right-of-entry-agreements.html

Approved CROE templates are not to be modified by the Contractor.

Contractor shall not operate within Railroad Right of Way without an executed Construction & Maintenance Agreement between the State and the Railroad and an executed CROE between the Contractor and the Railroad if required on project.

#### VI. RAILROAD COORDINATION MEETING

A Railroad Coordination Meeting is required. See item 5, Article 8.1, of the Standard Specifications for Construction and Maintenance of Highways, Streets and Bridges Manual for more details.

#### **VII. RAILROAD SAFETY ORIENTATION**

A. Complete the Railroad's course "Orientation for Contractor's Safety," and maintain registration prior to working on the Railroad's property. This course is required to be completed annually by Contractor and Subcontractor personnel working on site.

UPRR, BNSF, KCS/TEXMEX will not accept on-track safety training certificates from other Railroads. Refer to each Railroad's specific contractor right of entry for training information.

Know and follow the Contractor's Right of Entry Agreement EXHIBIT D, MINIMUM SAFETY REQUIREMENTS regarding clothing, personal protective equipment, and general safety requirements.

#### VIII. SUBCONTRACTORS

Contractor shall not subcontract work without written consent of TxDOT. Subcontractors are subject to the same insurance requirements as the Prime Contractor.

#### IX. EMERGENCY NOTIFICATION

In Case of Railroad Emergency	
Call: Union Pacific Railroad Company	
Railroad Emergency Line at: 800-848-8715	
Location: DOT 746202K	
RR Milepost: 113.300	
Subdivision: Corpus Christi	



Rail Division

### RAILROAD SCOPE OF WORK

FILE: rr-scop	e-of-work.pdf	DN: Tx	DOT	ск:	DW:	CK:
© TxDOT	June 2014	CONT	SECT	JOB		HIGHWAY
0/0000	REVISIONS	0916	00	228	IF	137, ETC.
3/2023		DIST		COUNTY		SHEET NO.
		CRP	1	NUECES, ET	C.	108

☐ Thic proj	pot is adjacent or parallal work, not within PR POW:
	ect is adjacent or parallel work, not within RR ROW: 46203S (closed)
Crossing Ty	e: At Grade at Rockport St (closed/abandoned)
	y Operating Track at Crossing: Union Pacific Railroad Company
	y Owning Track at Crossing: <u>Union Pacific Railroad Company</u>
RR MP: 112	
	ion: Corpus Christi
City: Mathis	
County: Sar	
CSJ at this (	Crossing: 0916-00-228
Scope of Wo	ork, including any TCP, to be performed by State Contractor:
the railroad	Contractor will be refreshing pavement markings and markers on the facility parallel to I tracks (abandoned and removed) outside of railroad ROW. Traffic control may be ed through railroad ROW at the county road cross street. TCP signs and/or channelizers nin railroad ROW across this closed crossing.
Scope of Wo	ork to be performed by Railroad Company:
None	
II. FLAG	GING & INSPECTION
No. of Davs	of Railroad Flagging Expected: 0
	of Railroad Flagging Expected: 0
	ect, night or weekend flagging is:
On this proj	ect, night or weekend flagging is:
On this proj ☐ Expected ☑ Not Expe	ect, night or weekend flagging is: cted
On this projo  ☐ Expected  ☑ Not Expe  Flagging sei	ect, night or weekend flagging is: cted vices will be provided by:
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On this proj.  Expected  Not Expe  Flagging set  Railroad needed  Outside I  Contractor r requires a 3	ect, night or weekend flagging is:  cted  vices will be provided by:  Company: TxDOT will pay flagging invoices. Flagging Agreement with Railroad will be  Party: Contractor will pay flagging invoices to be reimbursed by TxDOT  nust incorporate flaggers into anticipated construction schedule. The Railroad  O-day notice if their flaggers are to be utilized. If Contractor falls behind schedule due negligence and is not ready for scheduled flaggers, any flagging charges will be paid
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On this projuing the projuing of the projuing set of the project of the projuing set of the project o	cted  vices will be provided by:  Company: TxDOT will pay flagging invoices. Flagging Agreement with Railroad will be  Party: Contractor will pay flagging invoices to be reimbursed by TxDOT  must incorporate flaggers into anticipated construction schedule. The Railroad  O-day notice if their flaggers are to be utilized. If Contractor falls behind schedule due negligence and is not ready for scheduled flaggers, any flagging charges will be paid  or.  wrmation for Flagging:  UP.info@railpros.com  Call Center 877-315-0513, Select #1 for flagging  UP.request@nrssinc.net  Call Center 877-984-677  BNSFinfo@railprosfs.com  Call Center 877-315-0513, Select #1 for flagging  KCS.info@railpros.com
On this proj.  Expected  Not Experied  Railroad needed  Outside I  Contractor r requires a 3 to their own by Contract  UPRR  BNSF  KCS	cted  vices will be provided by:  Company: TxDOT will pay flagging invoices. Flagging Agreement with Railroad will be  Party: Contractor will pay flagging invoices to be reimbursed by TxDOT  must incorporate flaggers into anticipated construction schedule. The Railroad  O-day notice if their flaggers are to be utilized. If Contractor falls behind schedule due negligence and is not ready for scheduled flaggers, any flagging charges will be paid  or.  vrmation for Flagging:  UP.info@railpros.com  Call Center 877-315-0513, Select #1 for flagging  UP.request@nrssinc.net  Call Center 877-315-0513, Select #1 for flagging  KCS.info@railpros.com  Call Center 877-315-0513, Select #1 for flagging  KCS.info@railpros.com  Call Center 877-315-0513, Select #1 for flagging  Bottom Line On-Track Safety Services  bottomlineO76@aol.com, 903-767-7630
On this projuing Expected  Not Experience Railroad needed Outside I Contractor requires a 3 to their own by Contractor	cted  vices will be provided by:  Company: TxDOT will pay flagging invoices. Flagging Agreement with Railroad will be  Party: Contractor will pay flagging invoices to be reimbursed by TxDOT  must incorporate flaggers into anticipated construction schedule. The Railroad  O-day notice if their flaggers are to be utilized. If Contractor falls behind schedule due negligence and is not ready for scheduled flaggers, any flagging charges will be paid  or.  vrmation for Flagging:  UP.info@railpros.com  Call Center 877-315-0513, Select #1 for flagging  UP.request@nrssinc.net  Call Center 877-315-0513, Select #1 for flagging  KCS.info@railpros.com  Call Center 877-315-0513, Select #1 for flagging  KCS.info@railpros.com  Call Center 877-315-0513, Select #1 for flagging  Bottom Line On-Track Safety Services  bottomlineO76@aol.com, 903-767-7630
On this proj.  Expected  Not Experted Railroad needed Outside I Contractor r requires a 3 to their own by Contract UPRR  BNSF  KCS	cted  vices will be provided by:  Company: TxDOT will pay flagging invoices. Flagging Agreement with Railroad will be  Party: Contractor will pay flagging invoices to be reimbursed by TxDOT  must incorporate flaggers into anticipated construction schedule. The Railroad  O-day notice if their flaggers are to be utilized. If Contractor falls behind schedule due negligence and is not ready for scheduled flaggers, any flagging charges will be paid  or.  vrmation for Flagging:  UP.info@railpros.com  Call Center 877-315-0513, Select #1 for flagging  UP.request@nrssinc.net  Call Center 877-315-0513, Select #1 for flagging  KCS.info@railpros.com  Call Center 877-315-0513, Select #1 for flagging  KCS.info@railpros.com  Call Center 877-315-0513, Select #1 for flagging  Bottom Line On-Track Safety Services  bottomlineO76@aol.com, 903-767-7630

Contractor must incorporate Construction Inspection  ✓ Not Required	into anticipated construction schedule.				
☐ Required. Contact Information for Construction In	spection:				
III. CONSTRUCTION WORK TO BE PERFORM	MED BY THE RAILROAD				
<ul> <li>□ Required. Railroad Point of Contact:</li> <li>☑ Not Required</li> </ul>					
Coordinate with TxDOT for any work to be performed a work order for any work done by the Railroad Comp					
IV. RAILROAD INSURANCE REQUIREMENTS	3				
The Contractor shall confirm the insurance requirem are subject to change without notice.	The Contractor shall confirm the insurance requirements with the Railroad as the insurance limits are subject to change without notice.				
Insurance policies and corresponding certificates of on behalf of the Railroad. Separate insurance policie than one Railroad Company is operating on the same Companies are involved and operate on their own se	es and certificates are required when more e right of way, or when several Railroad				
No direct compensation will be made to the Contractor for providing the insurance coverages shown below or any deductibles. These costs are incidental to the various bid items.					
Escalated L	imits				
Type of Insurance	Amount of Coverage (Minimum)				
Workers Compensation	\$500,000 / \$500,000 / \$500,000				
Commercial General Liability	\$2,000,000 / \$4,000,000				
Business Automobile	\$2,000,000				
Railroad Protective I	Liability Limits				
☐ Not Required					
<ul> <li>Non - Bridge/Typical Maintenance Projects.</li> <li>Includes repairs to overpass/underpass and culvert structures</li> </ul>	\$2,000,000 / \$6,000,000				
<ul> <li>□ Bridge Structure Projects. Includes new construction or replacement of overpass/ underpass structures</li> <li>□ Other:</li> </ul>	\$5,000,000 / \$10,000,000				

☐ Not Required
☑ Required: UPRR Maintenance Consent Letter. TxDOT to assist
$\square$ Required: TxDOT to assist in obtaining the UPRR CROE
☐ Required: Contractor to obtain
☐ BNSF:
☐ KCS https://jllrpg.360works.com/fmi/webd/rpo_web_kcs.fmp12
☐ Other Railroads:

To view previously approved CROE templates agreed upon between the State and Railroad, see: https://www.txdot.gov/business/resources/railroad-highway-crossing/sample-right-of-entry-agreements.html

Approved CROE templates are not to be modified by the Contractor.

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A Railroad Coordination Meeting is required. See item 5, Article 8.1, of the Standard Specifications for Construction and Maintenance of Highways, Streets and Bridges Manual for more details.

#### **VII. RAILROAD SAFETY ORIENTATION**

A. Complete the Railroad's course "Orientation for Contractor's Safety," and maintain registration prior to working on the Railroad's property. This course is required to be completed annually by Contractor and Subcontractor personnel working on site.

UPRR, BNSF, KCS/TEXMEX will not accept on-track safety training certificates from other Railroads. Refer to each Railroad's specific contractor right of entry for training information.

Know and follow the Contractor's Right of Entry Agreement EXHIBIT D, MINIMUM SAFETY REQUIREMENTS regarding clothing, personal protective equipment, and general safety requirements.

#### VIII. SUBCONTRACTORS

Contractor shall not subcontract work without written consent of TxDOT. Subcontractors are subject to the same insurance requirements as the Prime Contractor.

#### IX. EMERGENCY NOTIFICATION

	Railroad Emergency	
Call: Unio	n Pacific Railroad Company	
Railroad E	mergency Line at: 800-848-8715	
	DOT 746203S	
RR Milepo	st: 112.610	
Subdivisio	n: Corpus Christi	



Rail Division

### RAILROAD SCOPE OF WORK

FILE: TT-SCOP	e-of-work.pdf	DN: TX	DOT	ск:	DW:		ск:
© TxDOT	June 2014	CONT	SECT	JOB		HIGHWAY	
REVISIONS	0916	00	228		IH37	, ETC.	
3/2023		DIST		COUNTY			SHEET NO.
		CRP		NUFCES ET	С		109

☐ This proj DOT No.: 7	ect is adjacent or parallel work, not within RR ROW: 46204Y
	pe: At Grade at San Patricio Ave (out of service)
	y Operating Track at Crossing: Union Pacific Railroad Company
	y Owning Track at Crossing: Union Pacific Railroad Company
RR MP: 11	
	Sion: Corpus Christi
City: Mathis	
County: Sa	
CSJ at this	Crossing:
Scope of W	ork, including any TCP, to be performed by State Contractor:
the railroad may be im	s Contractor will be refreshing pavement markings and markers on the facility parallel to d tracks (abandoned and removed/out of service) outside of railroad ROW. Traffic control plemented through railroad ROW at the cross street. TCP signs and/or channelizers may ailroad ROW across this closed crossing.
Scope of W	ork to be performed by Railroad Company:
None	
None	
II. FLAC	GGING & INSPECTION  of Railroad Flagging Expected: 0
II. FLAC	of Railroad Flagging Expected: 0
II. FLAC	of Railroad Flagging Expected: 0 ect, night or weekend flagging is:
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Contractor must incorporate Construction Inspection  Not Required	
☐ Required. Contact Information for Construction In	spection:
III. CONSTRUCTION WORK TO BE PERFORM	MED BY THE RAILROAD
<ul><li>□ Required. Railroad Point of Contact:</li><li>☑ Not Required</li></ul>	
Coordinate with TxDOT for any work to be performed a work order for any work done by the Railroad Comp	
IV. RAILROAD INSURANCE REQUIREMENTS	3
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Insurance policies and corresponding certificates of on behalf of the Railroad. Separate insurance policie than one Railroad Company is operating on the same Companies are involved and operate on their own se	es and certificates are required when more e right of way, or when several Railroad
No direct compensation will be made to the Contract shown below or any deductibles. These costs are inc	
Escalated L	imits
Type of Insurance	Amount of Coverage (Minimum)
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Railroad Protective L	Liability Limits
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□ Other:	

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☑ Required: UPRR Maintenance Consent Letter. TxDOT to assist
$\square$ Required: TxDOT to assist in obtaining the UPRR CROE
☐ Required: Contractor to obtain
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☐ KCS https://jllrpg.360works.com/fmi/webd/rpo_web_kcs.fmp12
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Location: DOT 746204Y			
RR Milepost: 113.290			
Subdivision: Corpus Christi			



Rail Division

FILE: rr-scop	e-of-work.pdf	DN: Tx	DOT	CK: D	w:	ск:
© TxDOT	June 2014	CONT	SECT	JOB		HIGHWAY
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3/2023		DIST		COUNTY		SHEET NO.
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Crossing Typ	ect is adjacent or parallel work, not within RR ROW: 16306S
RR Company	De: At Grade on SH 361/Goodnight Ave
	Operating Track at Crossing: Union Pacific Railroad Company
	/ Owning Track at Crossing: Union Pacific Railroad Company
RR MP: 26.2	
	ion: Kosmos Ind Ld
City: Aransa	
County: San	
	Crossing: 0916-00-228
	ork, including any TCP, to be performed by State Contractor:
within Railro	Contractor will be refreshing pavement markings and markers up to the Railroad Tracks oad Right of Way. Any and all pavement markings placed will be to standard. No TCP annelizers will be within railroad ROW. RR flagging to be provided for entire duration of a railroad ROW.
Scope of Wo	ork to be performed by Railroad Company:
None	
II. FLAG	GING & INSPECTION
No. of Days	of Railroad Flagging Expected: _1
	ect, night or weekend flagging is:
☐ Expected	
✓ Not Expedit	cted
Flagging ser	vices will be provided by:
☐ Railroad (	Company: TxDOT will pay flagging invoices. Flagging Agreement with Railroad will be
needed	
✓ Outside F	Party: Contractor will pay flagging invoices to be reimbursed by TxDOT
requires a 3	nust incorporate flaggers into anticipated construction schedule. The Railroad 0-day notice if their flaggers are to be utilized. If Contractor falls behind schedule du negligence and is not ready for scheduled flaggers, any flagging charges will be paid or.
Contact Info	rmation for Flagging:
<b>☑</b> UPRR	UP.info@railpros.com Call Center 877-315-0513, Select #1 for flagging
w UPKK	UP.request@nrssinc.net
w UPRK	Call Celllet 011-304-011
☑ UPRR	Call Center 877-984-677  BNSFinfo@railprosfs.com  Call Center 877-315-0513, Select #1 for flagging
□ BNSF	BNSFinfo@railprosfs.com Call Center 877-315-0513, Select #1 for flagging KCS.info@railpros.com

Contractor must incorporate Construction Inspection	into anticipated construction schedule.			
<ul><li>☑ Not Required</li><li>☐ Required. Contact Information for Construction Ir</li></ul>	nspection:			
III. CONSTRUCTION WORK TO BE PERFORM	MED BY THE RAILROAD			
☐ Required. Railroad Point of Contact:				
☑ Not Required Coordinate with TxDOT for any work to be performed a work order for any work done by the Railroad Comp				
IV. RAILROAD INSURANCE REQUIREMENTS	S			
The Contractor shall confirm the insurance requirem are subject to change without notice.	ents with the Railroad as the insurance limits			
Insurance policies and corresponding certificates of insurance must be issued by the contractor on behalf of the Railroad. Separate insurance policies and certificates are required when more than one Railroad Company is operating on the same right of way, or when several Railroad Companies are involved and operate on their own separate right of ways.				
No direct compensation will be made to the Contract shown below or any deductibles. These costs are incompensation will be made to the Contract shown below or any deductibles.				
Escalated I	Limits			
Type of Insurance	Amount of Coverage (Minimum)			
Workers Compensation	\$500,000 / \$500,000 / \$500,000			
Commercial General Liability	\$2,000,000 / \$4,000,000			
Business Automobile	\$2,000,000			
Railroad Protective	Liability Limits			
☐ Not Required				
<ul> <li>Non - Bridge/Typical Maintenance Projects.</li> <li>Includes repairs to overpass/underpass and culvert structures</li> </ul>	\$2,000,000 / \$6,000,000			
☐ Bridge Structure Projects. Includes new construction or replacement of overpass/ underpass structures	\$5,000,000 / \$10,000,000			
□ Other:				

☐ Not Required
☑ Required: UPRR Maintenance Consent Letter. TxDOT to assist
$\square$ Required: TxDOT to assist in obtaining the UPRR CROE
☐ Required: Contractor to obtain
☐ BNSF:
☐ KCS https://jllrpg.360works.com/fmi/webd/rpo_web_kcs.fmp12
☐ Other Railroads:

To view previously approved CROE templates agreed upon between the State and Railroad, see: https://www.txdot.gov/business/resources/railroad-highway-crossing/sample-right-of-entry-agreements.html

Approved CROE templates are not to be modified by the Contractor.

Contractor shall not operate within Railroad Right of Way without an executed Construction & Maintenance Agreement between the State and the Railroad and an executed CROE between the Contractor and the Railroad if required on project.

#### VI. RAILROAD COORDINATION MEETING

A Railroad Coordination Meeting is required. See item 5, Article 8.1, of the Standard Specifications for Construction and Maintenance of Highways, Streets and Bridges Manual for more details.

#### VII. RAILROAD SAFETY ORIENTATION

A. Complete the Railroad's course "Orientation for Contractor's Safety," and maintain registration prior to working on the Railroad's property. This course is required to be completed annually by Contractor and Subcontractor personnel working on site.

UPRR, BNSF, KCS/TEXMEX will not accept on-track safety training certificates from other Railroads. Refer to each Railroad's specific contractor right of entry for training information.

Know and follow the Contractor's Right of Entry Agreement EXHIBIT D, MINIMUM SAFETY REQUIREMENTS regarding clothing, personal protective equipment, and general safety requirements.

#### VIII. SUBCONTRACTORS

Contractor shall not subcontract work without written consent of TxDOT. Subcontractors are subject to the same insurance requirements as the Prime Contractor.

#### IX. EMERGENCY NOTIFICATION

In Case of Railroad Emergency					
Call: Union Pacific Railroad Company					
Railroad Emergency Line at: 800-848-8715					
Location: DOT 746306S					
RR Milepost: 26.200					
Subdivision: Kosmos Ind Ld					



Rail Division

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		CDD		MILIECES ETC	`	111			

#### PART 1 - GENERAL

#### DESCRIPTION

This project includes construction work within the right of way and/or properties of the Railroad and adjacent to its tracks, wire lines and other facilities. These sheets describe the minimum special requirements for coordination with the Railroad when working upon, over or under Railroad Right of Way or when impacting current or future Railroad operations. Coordinate with the Railroad while performing the work outlined herein, and afford the same cooperation with the Railroad as with TxDOI. Complete all submittals and work in accordance with TxDOT Standard Specifications, Railroad Guidelines and AREMA recommendations as modified by these minimum special requirements or as directed in writing by the Railroad

For purposes of this project, the Railroad Designated Representative is the person or persons designated by the Railroad Manager of Industry and Public Projects to handle specific tasks related to the project.

#### 1.02 REQUEST FOR INFORMATION / CLARIFICATION

Submit Requests for Information ("RFI") involving work within any Railroad Right of Way to the TxDOT Engineer. The TxDOT Engineer will submit the RFI to the Railroad Designated Representative for review and approval for RFI's corresponding to work within Railroad Right of Way. Allow six (6) weeks total time for review and approval, which includes four (4) weeks for review and approval by the Railroad.

#### 1.03 PLANS / SPECIFICATIONS

TxDOT has received written Railroad approval of the plans and specifications for this project. Any revisions or changes in the plans after award of the Contract must have the approval of TxDOT and the Railroad.

#### PART 2 - UTILITIES AND FIBER OPTIC

Construct all utility installations in accordance with current AREMA recommendations, Railroad, TxDOT and owning utility specifications and requirements. Railroad general guidelines can be found on the Railroad website or by contacting the Railroad Designated Representative.

#### PART 3 - CONSTRUCTION

#### GENERAL

- A. Perform all work in compliance with all applicable Railroad, Federal Railroad Administration (FRA), and TxDOT rules and regulations. Arrange and conduct work in a manner that does not endanger or interfere with the safe operation of the tracks and property of the Railroad and the traffic moving on such tracks, or the wires, signals and other property of the Railroad, its tenants or licensees, at or in the vicinity of the Work. The safe operation of railroad train movements takes precedence over any work to be performed by the Contractor. The Contractor is responsible for train delay cost and lost revenue claims due to any delays or interruption of train operations resulting from Contractor's construction or other activities.
- B. Construction activities within 15 feet of the operational tracks will only be allowed if absolutely necessary and the Railroad's Designated Representative grants approval. Construction activities within 15 feet of the operational track(s) preferably allow the tracks to stay operational. In such cases, coordination and approval by the Railroad Track Manager is required with regard to schedule, flagging, and slow orders. See Sections 3.07 and 3.08 for additional information.
- C. Provide track protection for all work equipment (including rubber tired equipment) operating within 25 feet from nearest rail. When not in use, keep Contractor machinery and materials at least 50 feet from the Railroad's nearest track.
- D. Vehicular crossings of railroad track are allowed only at existing crossings, or haul road crossings developed with Railroad approval.
- E. The Contractor is also advised that new railroad facilities within the project may be built by the Railroad. If applicable, these facilities are delineated in the plans. Be aware of the limits of responsibilities and coordinate efforts with the Railroad and TxDOT.
- F. Railroad requirements do not allow work within 50 feet of track centers when a train passes the work site and all personnel must clear the area within 50 feet of the track centerline and secure all equipment. Additional allowances may be pursued as outlined in 3.02 and 3.03.
- G. All permanent clearances shall be verified before project closing.

#### 3. 02 RAILROAD OPERATIONS

- A. Trains and/or equipment are expected on any track, at any in either direction. Become familiar with the train schedules in this location and structure bid assuming intermittent track windows in this period, as defined in Paragraph B that follows.
- B. All railroad tracks within and adjacent to the contract site are active, and rail traffic over these facilities shall be maintained throughout the Project. Activities may include both through moves and switching moves to local customers. railroad traffic and operations will occur continuously throughout the day and night on these tracks and shall be maintained at all times as defined herein. Coordinate and schedule the work so that construction activities do not interfere with railroad operations.
- C. Coordinate work windows with TxDOT and the Railroad's Designated Representative. Types of work windows include Conditional Work Windows and Absolute Work Windows, as defined below:
  - Conditional Work Window: A Conditional Work Window is a period of time that railroad operations have priority over construction activities. When construction activities may occur on and/or adjacent to the railroad tracks within 25 feet of the nearest track, a railroad flag person will be required. At the direction of the railroad flag person, upon approach of a train, and when trains are present on the tracks, the tracks must be cleared (i.e., no construction equipment, materials or personnel within 25 feet, or as directed by the Railroad Designated Representative, from the tracks). Conditional Work Windows are available for the Project.
  - 2. Absolute Work Window: An Absolute Work Window is a period of Absolute Work Window: An Absolute Work Window is a period of time that construction activities are given priority over railroad operations. During this time frame, the designated railroad track(s) will be inactive for train movements and may be fouled by the Contractor. At the end of an Absolute Work Window, the railroad tracks and/or signals must be completely operational for train operations and all Railroad, Public Utilities Commission (PUC) and FRA requirements, codes and regulations for operational tracks must be satisfied. In the situation where the operating tracks and/or signals have been affected, the Railroad will perform inspections of the work prior to placing that track back into service. Railroad flag persons will be required for construction activities requiring an Absolute Work Window. Absolute Work Windows will not generally be granted. Any request will require a detailed explanation for Railroad review.

#### 3.03 RIGHT OF ENTRY, ADVANCE NOTICE AND WORK STOPPAGES

- A. Do not perform any work within Railroad Right of Way without a valid executed Right of Entry Agreement if required on this project.
- B. Give advance notice to the Railroad as required in the "Contractor's Right of Entry Agreement" before commencing work in connection with construction upon or over Railroad Right of Way and observe the Railroad's rules and regulations with respect thereto.
- C. Perform all work upon Railroad Right of Way in a manner to avoid interference with or endanger the operations of the Railroad.
  Whenever work may affect the operations or safety of trains, submit the work method to the Railroad Designated Representative for approval. Approval does not relieve the Contractor from liability. Do not commence any work which requires flagging service or inspection service until the flagging protection required by the Railroad is available at the job site. See Section 3.15 for railroad flagging requirements.
- D. Make requests in writing for both Absolute and Conditional Work Windows, at least 30 days in advance of any work. Include in the written request:
  - Exactly what the work entails.
- The days and hours that work will be performed. The exact location of work, and proximity to the tracks.
- The type of window requested and the amount of time requested.
- The designated contact person.

Provide a written confirmation notice to the Railroad at least 48 hours before commencing work in connection with approved work windows when work is within 25 feet of nearest rail. Perform all work in accordance with previously approved work plans.

E. Make provisions to protect operations and property of the Railroad should a condition arising from, or in connection with the work, require immediate and unusual action. If in the judgment of the Railroad Designated Representative such provisions are insufficient, the Railroad Designated Representative may require or provide such provisions as deemed necessary. In any event, such provisions shall be at the Contractor's expense and without cost to the Railroad or TxDOT. The Railroad or TxDOT shall have the right to order the Contractor to temporarily cease operations in the event of an emergency or, if in the opinion of the Railroad Designated Representative, the Contractor's operations could endanger railroad operations. In the event of such an order, immediately notify TxDOT of the order.

#### INSURANCE 3.04

Do not begin work upon or over Railroad Right of Way until furnishing the Railroad with the insurance policies, binders, certificates and endorsements required by the "Contractor's Right of Entry Agreement", and until the Railroad Designated Representative has advised TxDOT that such insurance is in accordance with the Agreement.

#### RAILROAD SAFETY ORIENTATION

maintain current registration prior to working on railroad property. This course is required to be completed annually by Contractor and Subcontractor personnel working on site.

A. Complete the railroad course "Orientation for Contractor's Safety", and

"UPRR,BNSF,KCS/TEXMEX will not accept on-track safety training certificates from other railroads. Refer to Railroad specific contractor right of entry for training information.

Know and follow the "Contractor's Right of Entry Agreement" EXHIBIT D, MINIMUM SAFETY REQUIREMENTS regarding clothing, personal protective equipment, and general safety requirements.

#### COOPERATION 3.06

The Railroad will cooperate with Contractor so that work may be conducted in an efficient manner, and will cooperate with Contractor in enabling use of Railroad Right of Way in performing the work.

#### MINIMUM CONSTRUCTION CLEARANCES FOR FALSEWORK AND OTHER TEMPORARY STRUCTURES

Abide by the following minimum temporary clearances during the course of construction: A. 15' - 0" (BNSF) (UPRR) and 14'-0" (KCS) horizontal from

centerline of track B. 22' (KCS) and 21' - 6" (UPRR & BNSF) vertically above top of rail.

For construction clearance less than listed above, obtain local Railroad Operating Unit review and approval.

#### APPROVAL OF REDUCED CLEARANCES

- A. Maintain minimum track clearances during construction as specified in Section 3.07.
- B. Submit any proposed infringement on the specified minimum clearances to the Railroad Designated Representative through TxDOT at least 30 days in advance of the work. Do not proceed with such infringement without written approval by the Railroad Designated Representative.
- C. Do not commence work involving an approved infringement without receiving written assurance from the Railroad Designated Representative that arrangements have been made for any necessary flagging service.

SHEET 1 OF 2



### RAILROAD REQUIREMENTS FOR NON-BRIDGE CONSTRUCTION PROJECTS

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#### 3.09 MAINTENANCE OF RAILROAD FACILITIES

- A. Maintain all ditches and drainage structures free of silt or other obstructions resulting from Contractor's operations. Repair eroded areas and any other damage within Railroad Right of Way and repair any other damage to the property of the Railroad, or its tenants.
- B. Perform all such maintenance and repair of damages due to the Contractors's operations at Contractor's expense.
- C. Submit a proposed method of erosion control for review by the Railroad prior to beginning any grading on the project site. Comply with all applicable local, state and federal regulations when developing and implementing such erosion control.

#### 3.10 SITE INSPECTIONS BY RAILROAD'S DESIGNATED REPRESENTATIVE

- A. In addition to the office reviews of construction submittals, site inspections may be performed by the Railroad Designated Representative at significant points during construction, including the following if applicable:
- Pre-construction meetings.
   Pile driving/drilling of caissons or drilled shafts.
   Reinforcement and concrete placement for railroad bridge substructure and/or superstructure.
- Erection of precast concrete or steel bridge superstructure.
- 5. Placement of waterproofing (prior to placing ballast on bridge deck).
- 6. Completion of the bridge structure.
- B. Site inspection is not limited to the milestone events listed above. Site visits to check progress of the work may be performed at any time throughout the construction as deemed necessary by the Railroad.
- C. Provide a detailed construction schedule, including the proposed temporary horizontal and vertical clearances and construction sequence for all work to TxDOT for submittal to the Railroad Designated Representative for review prior to commencement of work. the anticipated dates when the above listed events will occur. Update this schedule for the above listed events as necessary and each month at a minimum to allow the Railroad to schedule site inspections.

#### 3.11 RAILROAD REPRESENTATIVES

Railroad representatives, conductors, flag person or watch person will be provided by the Railroad at expense of TxDOT to protect Railroad facilities, property and movements of its trains or engines. In general, the Railroad will furnish such personnel or other protective services as follows:

- A. When any part of any equipment is standing or being operated within 25 feet, measured horizontally, from nearest rail of any track on which trains may operate, or when any object is off the ground and any dimension thereof could extend inside the 25 foot limit, or when any erection or construction activities are in progress within such limits, regardless of elevation above or below track.
- B. For any excavation below elevation of track subgrade if, in the opinion the Railroad Designated Representative, track or other railroad facilities may be subject to settlement or movement.
- C. During any clearing, grubbing, excavation or grading in proximity to railroad facilities, which, in the opinion of the Railroad Designated Representative, may endanger railroad facilities or operations.
- D. During any Contractor's operations when, in the opinion of the Railroad Designated Representative, railroad facilities, including, but not limited to, tracks, buildings, signals, wire lines, or pipe lines, may be endangered.
- E. Arrange with the Railroad Designated Representative to provide the adequate number of flag persons to accomplish the work.

#### 3.12 COMMUNICATIONS AND SIGNAL LINES

If required, the Railroad will rearrange its communications and signal lines, its grade crossing warning devices, train signals and tracks, and facilities that are in use and maintained by the Railroad's forces in connection with its operation at expense of TxDOT. This work by the Railroad will be done by its own forces and it is not a part of the Work under this Contract.

#### 3.13 TRAFFIC CONTROL

Coordinate any operations that control traffic across or around railroad facilities with the Railroad Designated Representative.

#### 3.14 CONSTRUCTION EXCAVATIONS AND BORING ACTIVITIES UNDER TRACK

- A. Take special precaution and care in connection with excavating and shoring. Excavations for construction of footings, piers, columns, walls or other facilities that require shoring shall comply with requirements of TxDOT, OSHA, AREMA and Railroad "Guidelines for Temporary Shoring".
- B. The project plans indicate whether there are fiber optic lines or other such telecommunications systems that require consideration. Regardless, contact the necessary call center to determine if such cable systems are present:

UPRR 1-800-336-9193 7:00 AM to 9:00 PM CST Monday-Friday except holidays, staffed 24 hrs/day for emergencies 48 hrs notice required

BNSF 1-800-533-2891 24 hour number 5 working days notice required

KCS 1-800-344-8377 Texas One Call, a 24 hour number 48 hrs notice required, excluding weekends and holidays

If a telecommunications system is buried anywhere on or near railroad property, coordinate with TxDOT, the Railroad and the Telecommunication Company(ies) to arrange for relocation or protective measures prior to beginning work on or near railroad property. Refer to the project General Notes for additional information.

C. Projects involving a boring or jack and bore operation under track such as drainage pipes or culverts and utilities require an installation plan reviewed and approved by the Railroad and TxDOT prior to proceeding with such construction. A railroad inspector and contractor assisted monitoring of ground and track movement is required to maintain safe passage of rail traffic. Stop installation and do not allow passage of trains if movements in excess of  $\frac{1}{4}$  inch vertical or horizontal is detected in the tracks. Immediately repair the damage to the satisfaction of TxDOT and the Railroad before proceeding.

#### 3.15 RAILROAD FLAGGING

Per the Right of Entry Agreement for flagging, notify the Railroad Representative at least 10 working days in advance of Contractor's work and at least 30 working days in advance of any Contractor's work in which any person or equipment will be within 25 feet of nearest rail or as specified in the Contractor Right of Entry (CROE).

#### 3.16 CLEANING OF RIGHT-OF-WAY

When work is complete, remove all tools, implements, and other materials brought into Railroad Right of Way and leave the right of Way in a clean and presentable condition to the satisfaction of TxDOT and the Railroad.

SHEET 2 OF 2



### RAILROAD REQUIREMENTS FOR NON-BRIDGE CONSTRUCTION PROJECTS

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