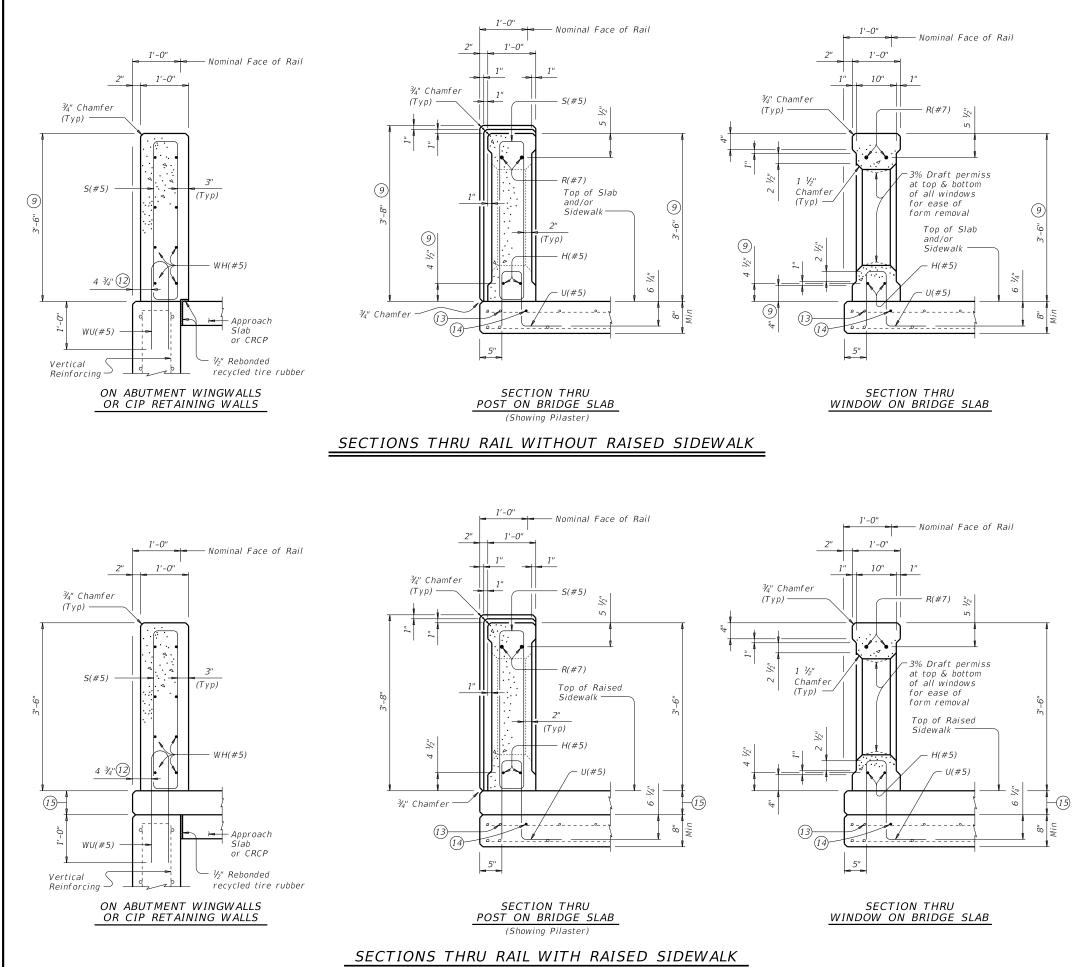


DATE: FILE:



DISCLAIMER: The use of this standard is governed by the "Texas Engineering Practice Act". No warranty of any kind is made by TXDOT for any purpose whatsoever. TXDOT assumes no responsibility for the conversion of this standard to other formats or for incorrect results or damages resulting from its use.

> DATE: FILE:

(9) Increase 2" for structures with overlay.

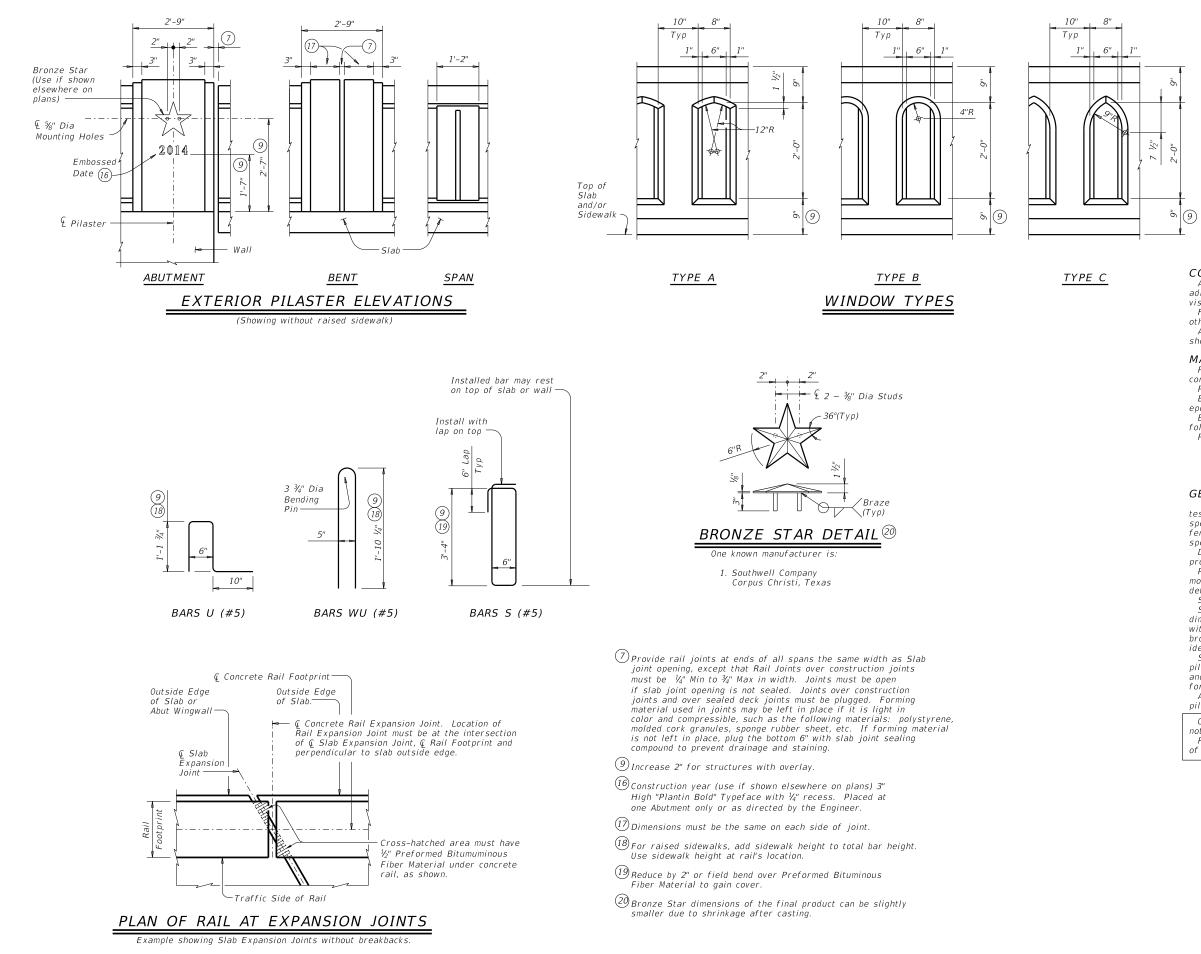
(12) 5 ¼" when vertical reinforcing has closer clear cover over horizontal reinforcing in abutment wingwalls or retaining walls on traffic side of wall.

(13) As an aid in supporting reinforcement, additional longitudinal bars may be used in the slab with the approval of the Engineer. Such bars must be furnished at the Contractor's expense.

14 Top longitudinal slab bar may be adjusted laterally 3" plus or minus to tie reinforcing.

(15) Raised Sidewalk

SHEET 2 OF 3									
Texas Department	Bridge Division Standard								
COMBINATION RAIL									
TEXAS CLASSIC									
	ΥP	F	C41	1					
					T DOT				
FILE: rlstd021-20.dgn	DN: TX[101	ск: ТхD0Т	DW:	TxD0T	ск: ТхD0Т			
CTxDOT September 2019	CONT SECT		JOB		HIGHWAY				
REVISIONS									
7-20: Bronze star change to one manufacturer.	DIST	COUNTY				SHEET NO.			



of any conversic anty the warr for No lity act 70 Engi xD0T by i hat rnec se for gov pur CLAIMER: The use of this standard is made by TXDOT for a

CONSTRUCTION NOTES:

Attach Bronze Star with a Type III Class C, D, E, or F epoxy adhesive. Clamp star until epoxy achieves set. Remove any visible epoxy "squeeze out" from under star. Face of rail and pilasters, parapet must be plumb unless

otherwise approved.

Apply a one rub finish to all railing surfaces unless otherwise shown elsewhere on the plans.

MATERIAL NOTES:

Provide Class "C" concrete for railing. Provide Class "C" (HPC) concrete if shown elsewhere in the plans. Provide Grade 60 reinforcing steel.

Epoxy coat or galvanize all reinforcing steel if slab bars are epoxy coated or galvanized. Bronze Star must be cast of architectural bronze having the

following composition: Copper 85%, Tin 5%, Lead 5%, Zinc 5% Provide bar laps, where required, as follows:

Uncoated or galvanized ~ #5 = 2'-0" Uncoated or galvanized ~ #7 = 2'-11"

Epoxy coated ~ #5 = 3'-0" Epoxy coated $\sim \#7 = 4'-4''$

GENERAL NOTES:

This rail has been successfully evaluated by full-scale crash test to meet MASH TL-2 criteria. This rail can be used for speeds of 45 mph and less when a TL-2 or TL-3 rated guard fence transition is used. This rail is only approved for low speed use, speeds of 45 mph and less. Do not use this railing on bridges with expansion joints

providing more than 5" movement.

Rail anchorage details shown on this standard may require modification for select structure types. See appropriate details elsewhere in plans for these modifications. Shop drawings will not be required for this rail

See Bridge Layout or other plan sheets for the following: dimensions with the number of span pilasters, dimensions with the number of windows, window type, inclusion of bronze stars, inclusion of construction year with abutment

identity. Submit erection drawings showing span number, span pilaster locations, number of windows between pilasters and spacing to first window (see Note 6) to the Engineer for approval.

Average weight of railing with no overlay increase and no pilasters is 350 plf.

Cover dimensions are clear dimensions, unless noted otherwise. Reinforcing bar dimensions shown are out-to-out of bar

SHEET 3 OF 3

Texas Department	Bridge Division Standard									
COMBINATION RAIL										
TEXAS CLASSIC										
_		_		_						
TYPE C411										
FILE: rlstd021-20.dgn	DN: TX	D0T	ск: ТхДОТ	DW:	T x D 0 T	ск: ТхD0Т				
CTxDOT September 2019	CONT	SECT	JOB		н	HIGHWAY				
REVISIONS										
7-20: Bronze star change to one manufacturer.	DIST COUNTY					SHEET NO.				