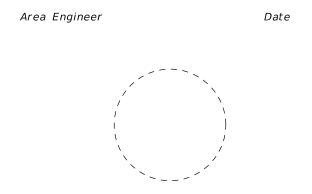
INDEX OF SHEETS

SEE SHEET NO. 2

	FINAL PLANS
Letting Date:	
Name of Contractor:	
Date Work Began:	
Date Work Completed:	
Date Work Accepted:	
Final Contract Cost:	

Project was built according to the Plans & Specifications. These final plans reflect the work done and the quantities shown thereon and on the Final Estimate are Final Quantities.



Summary of Change Orders:

STATE OF TEXAS DEPARTMENT OF TRANSPORTATION

 \square

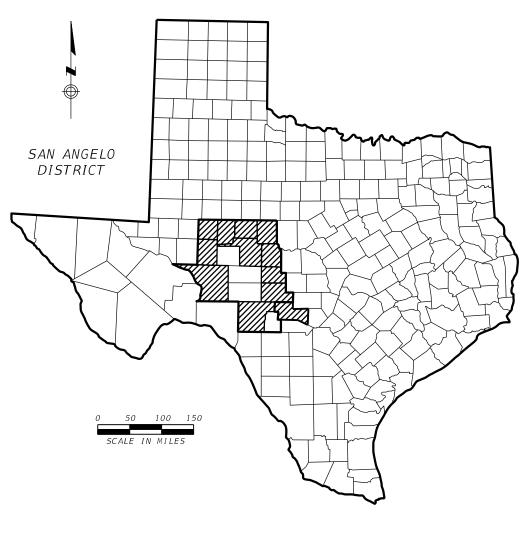
PLANS OF PROPOSED STATE HIGHWAY IMPROVEMENT

FEDERAL AID PROJECT STP 2021(214)

VA TOM GREEN, ETC

NET LENGTH OF PROJECT ROADWAY = 305.929 MI

LIMITS: VARIOUS LOCATIONS IN SAN ANGELO DISTRICT FOR THE CONSTRUCTION OF PAVEMENT MARKINGS



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 (FORM FHWA 1273, MAY 1, 2012). EXCEPTIONS NONE EQUATIONS NONE RAILROAD CROSSINGS NONE

 $\bigodot_{all\ rights\ reserved.}$

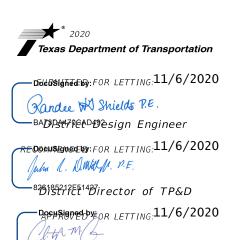
	FEDERAL-AID PROJECT NUMBER					
LASS =Major Collector or Greater	STP 2021(214)					
	CONT	SECT	JOB	HIGHWAY		
	0907	00	197, ETC	VA		

DIST

COUNTY

SJT TOM GREEN, ETC

SHEET NO



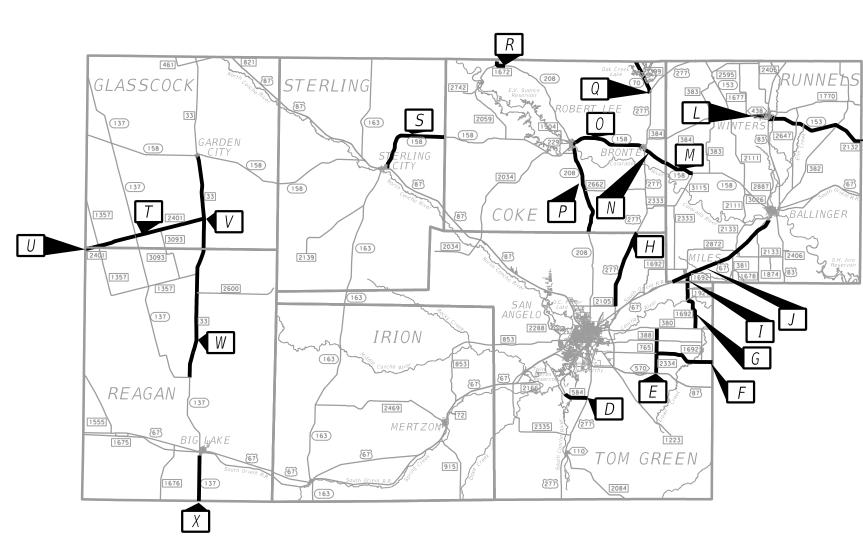
BC10B17FA709437... District Engineer

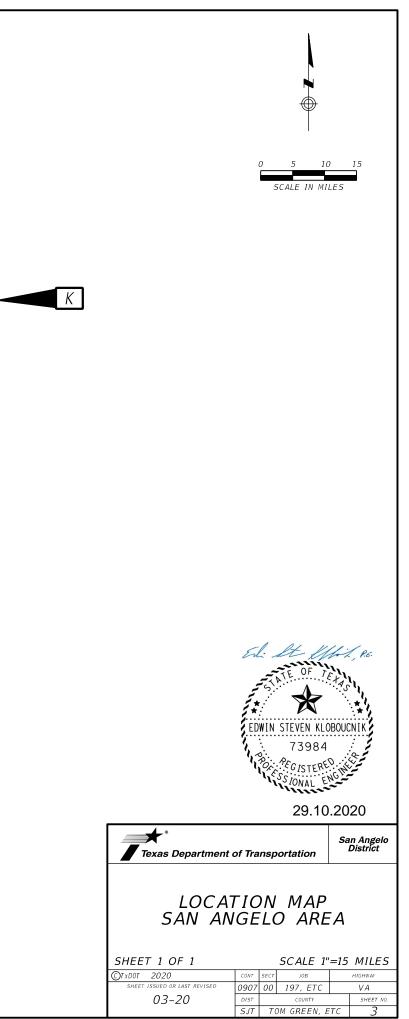
	SHEET NO.	DESCRIPTION	SHEET NO.	DESCRIPTION
	1	TITLE SHEET		
	2	INDEX OF SHEETS		
	3	LOCATION MAP SAN ANGELO AREA		PAVEMENT MARKINGS & DELINEATION
	4	LOCATION MAP CITY OF SAN ANGELO	89	INDEX GG
	5	LOCATION MAP JUNCTION AREA	90	INDEX HH
	6A-6B	GENERAL NOTES	91	INDEX II
	7	ESTIMATE & QUANTITY SHEET	92	PAVEMENT MARKING DETAILS (RURAL)
	8	QUANTITY SUMMARY	93	PAVEMENT MARKING DETAILS (NORAL)
	0	QUANTIT SUMMARI		TAVEMENT MARKING DETAILS (ONDAN)
		TRAFFIC CONTROL PLAN STANDARDS		PAVEMENT MARKINGS & DELINEATION STANDARDS
	9	TRAFFIC CONTROL PLAN GENERAL REQUIREMENTS		
			# 94	PM (1)-20
#	10-21	BC (1)–14 THRU BC (12)–14	# 95	PM (2)-20
#	22	TCP (3-1)-13	# 96	PM (3)-20
#	23	TCP (3-3)-14	# 97	PM (4)-20
#	24	TCP (3-4)-13	# 98	FPM (1)-12
			# 99	RS(3)-13
		<u>PAVEMENT MARKINGS & DELINEATION</u>	# 100	RS(4)-13
	25-26	INDEX A		
	27-29	INDEX B		ENVIRONMENTAL ISSUES
	30-31	INDEX C	101	ENVIRONMENTAL PERMITS, ISSUES AND COMMITMENTS
	32-33	INDEX D	101	
	34-35	INDEX E		RAILROAD STANDARDS
	36-37	INDEX F		MALLIOND STANDARDS
	38-39	INDEX G	# 102	<u>RCD(1)-10</u>
	40-41	INDEX H	# 102 # 103	RCD(2)-10
	40-41 42-43	INDEX I	# 105	RCD(2)-10
	42-45 44-45	INDEX J		
	44-43 46-47			
	46-47 48-49	INDEX K		
		INDEX L		
	50-51	INDEX M		
	52-53	INDEX N		En: St litich, P.E.
	54-55	INDEX O		TE OF TRUE
	56-57	INDEX P		
	58-59	INDEX Q		
	60-61	INDEX R		EDWIN STEVEN KLOBOUCNIK
	62-63	INDEX S		73984
	64-65	INDEX T		NON RECIENTERED
	66	INDEX U		SSIONAL ENGLAND
	67-68	INDEX V		"Interest
	69-70	INDEX W		29.10.2020
	71-72	INDEX X		San Angelo
	73-74	INDEX Y		Texas Department of Transportation
	75-76	INDEX Z		
	77-78	INDEX AA		
	79-80	INDEX BB		INDEX OF SHEETS
	81-82	INDEX CC		
	83-84	INDEX DD		
	85	INDEX EE		SHEET 1 OF 1 NOT TO SCALE
	86-88	INDEX FF	THF CT,	
			ABOVE	ANDARD SHEETS SPECIFICALLY IDENTIFIED BY A # HAVE BEEN ISSUED BY ME AND ARE BLE TO THIS PROJECT. COT 2020 CONT SECT JOB HIGHWAY SHEET ISSUED OR LAST REVISED 0907 00 197, ETC VA 10-20 DIST COUNTY SHEET NO. 10-20
			APPLICA	BLE TO THIS PROJECT. SJT TOM GREEN, ETC 2



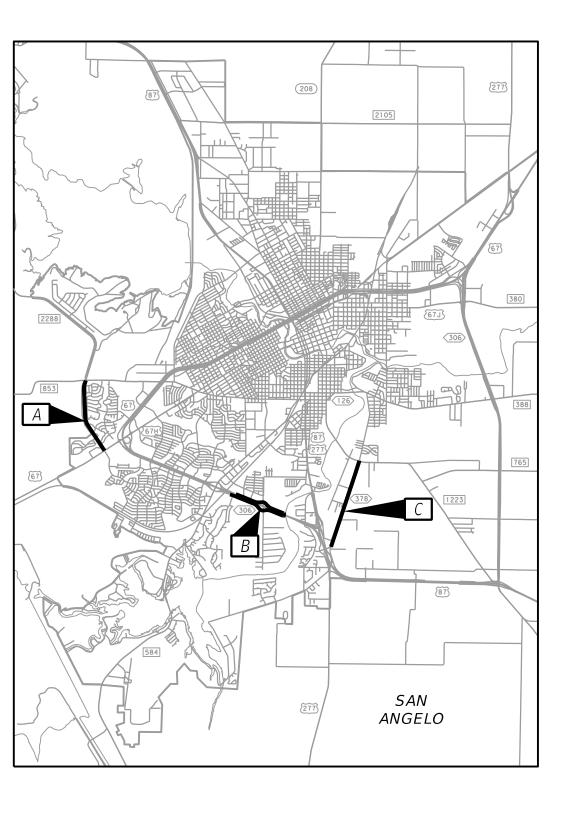


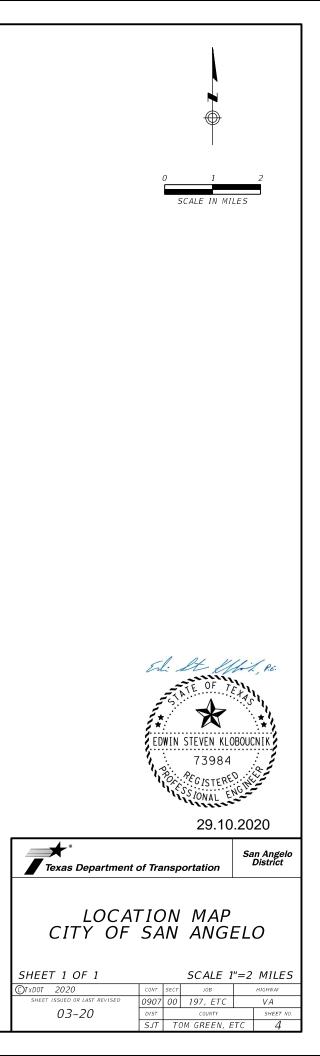


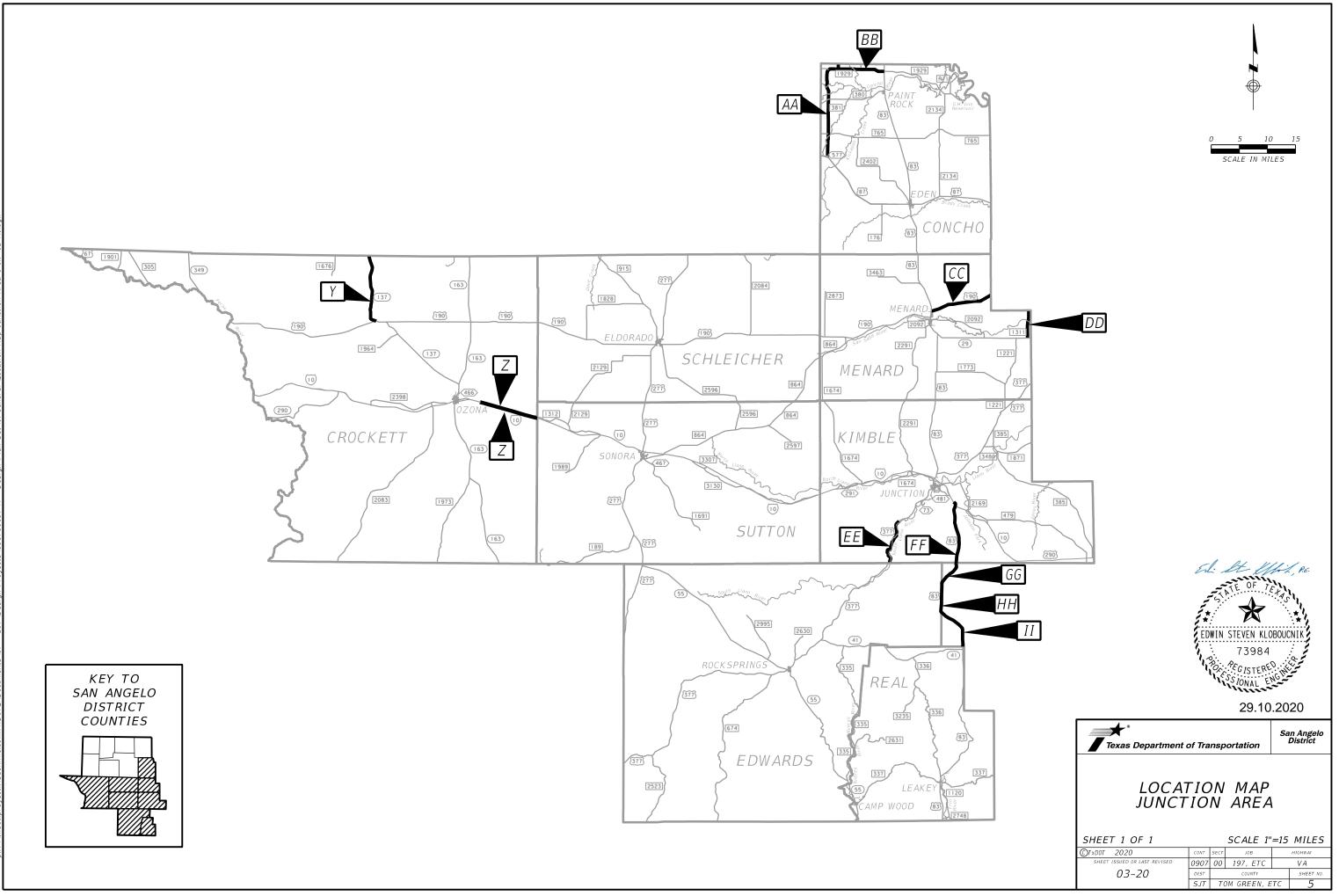












Project Number:

County: TOM GREEN

Highway: VARIOUS

GENERAL NOTES

The following Standard Sheets have been modified: None

Locate the project bulletin board at an approved location within the project limits such as at a field office, staging area, or stockpile, and make accessible to the public at all times. Do not remove the bulletin board from the project until approved. If a construction site notice is required for the project, post a copy at each geographically separated work location.

If Contractor elects to establish a pit within 200 ft. of a public road, construct a barrier or other device in accordance with Natural Resources Code, Chapter 133, and Section 133.041.

Do not use salt water with solids in excess of 10,000 parts per million, as determined by evaporation.

Contractor questions on this project are to be addressed by the following individual:

Nicholas Greenly, P.E.; email SJT_PreliminaryReview@txdot.gov

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

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://ftp.dot.state.tx.us/pub/txdot-info/Pre-Letting%20Responses/

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 5, "Control of the Work"

Responsibility for construction surveying shall conform to Section 5.9.3., "Method C."

Item 7, "Legal Relations and Responsibilities"

No significant traffic generator events have been identified.

Item 8, "Prosecution and Progress"

Submit the sequence of work and estimated progress schedule on paper or as a Portable Document Format (PDF) electronic file compatible with Adobe Systems Incorporated "Acrobat Reader XI".

Sheet: 6A

Control: 0907-00-197

Project Number:

County: TOM GREEN

Highway: VARIOUS

A copy of the contract time determination summary may be obtained by qualified bidders by sending a request to SJT_PreliminaryReview@txdot.gov.

Item 9, "Measurement and Payment"

The progress payment period shall end two working days before the last working day of the month. Deliver invoices to be paid as material on hand on or before the end of the progress payment period.

For projects that include a disadvantaged business enterprises (DBE) goal, provide a conversion rate for units of payment for work subcontracted to DBE if units of payments differ from those shown on the plans.

Item 502, "Barricades, Signs and Traffic Handling"

The Contractor Force Account "Safety Contingency" that has been established for this project is intended to be utilized for work zone enhancements, to improve the effectiveness of the Traffic Control Plan, that could not be foreseen in the project planning and design stage. These enhancements will be mutually agreed upon by the Engineer and the Contractor's Responsible Person based on weekly or more frequent traffic management reviews on the project. The Engineer may choose to use existing bid items if it does not slow the implementation of enhancement.

Item 506, "Temporary Erosion, Sedimentation, and Environmental Controls"

The project is exempt from the Texas Pollutant Discharge Elimination System (TPDES) General Permit (TXR150000). Exempt projects are those that disturb less than one acre or routine maintenance activities that maintain the original line and grade, hydraulic capacity, or original purposes of the site. No temporary erosion control measures or Storm Water Pollution Prevention Plan (SW3P) have been included in the plans.

Control: 0907-00-197

Sheet C

Sheet: 6B

Control: 0907-00-197

County: TOM GREEN

Highway: VARIOUS

Item 666, "Retroreflectorized Pavement Markings"

Place glass beads for pavement markings in accordance with the following table:

		Glass Be	ad Rates
Marking Types	Glass Bead (Double Drop) Types	Surface Treatment	Asphalt Concrete Pavement, Microsurfacing, Concrete Pavement
TV I morkings	Type II	12 LB per 100 SF	6 LB per 100 SF
TY I markings	Type III	12 LB per 100 SF	6 LB per 100 SF
TV II morkingo	Туре II	12 LB per GAL	6 LB per GAL
TY II markings	Type III	12 LB per GAL	6 LB per GAL

Apply TY II marking material at a rate of 25 gallons per mile.

The striper speed shall not exceed 5 MPH during application. Convert to gravity-flow beaders (if not in use) to obtain optimum bead application, when directed.

Clean striper tanks before use if there is a build-up of dry paint, as directed. Flush lines and guns before use.

Provide a double-drop of Type II and Type III glass beads.

For the purposes of this project, existing no-passing zone markings were not evaluated for adherence to current standards, but were re-established in their existing locations.

Item 668, "Prefabricated Pavement Markings"

When applying Type C specialty markings (symbols, words, etc.) over existing thermoplastic markings, first apply heat to the surface of the existing markings and roughen the surface with a shovel. Remove existing Type A, B, or C prefabricated markings prior to placing the new Type C markings.

Item 677, "Eliminating Existing Pavement Markings and Markers"

Use the following method: Mechanical.

Item 678, "Pavement Surface Preparation for Markings"

Some stop bars on existing pavement are covered in material from adjacent unpaved roads. Provide cleaning tools. Locations of these stop bars are referenced in the plans.

Project Number:

County: TOM GREEN

Highway: VARIOUS

Item 6056 "Preformed Centerline Rumble Strip"

Use Option 4 as shown on Standard Sheet RS(3)-13 and Option 6 of RS(4)-13.

Item 6185, "Truck Mounted Attenuator (TMA) and Trailer Attenuator (TA)"

In addition to the shadow vehicles with truck mounted attenuator (TMA) that are specified as being required on the traffic control plan for this project, provide:

• No additional shadow vehicles with TMA.

Sheet: 6B

Control: 0907-00-197



CONTROLLING PROJECT ID 0907-00-197

DISTRICT San Angelo **HIGHWAY** Various COUNTY Tom Green

QUANTITY SHEET

		CONTROL SECTIO	N JOB	0907-0	0-197		
		PROJI	ECT ID	A0012	7361		
		cc	DUNTY	Tom G	reen	TOTAL EST.	TOTAL FINAL
		HIG	HWAY	Vario	ous	_	
ALT	BID CODE	DESCRIPTION	UNIT	EST.	FINAL		
	500-6001	MOBILIZATION	LS	100.00%		100.00%	
	502-6001	BARRICADES, SIGNS AND TRAFFIC HANDLING	МО	4.000		4.000	
	666-6036	REFL PAV MRK TY I (W)8"(SLD)(100MIL)	LF	7,290.000		7,290.000	
	666-6048	REFL PAV MRK TY I (W)24"(SLD)(100MIL)	LF	4,958.000		4,958.000	
	666-6138	REFL PAV MRK TY I (Y)8"(SLD)(100MIL)	LF	887.000		887.000	
	666-6147	REFL PAV MRK TY I (Y)24"(SLD)(100MIL)	LF	375.000		375.000	
	666-6230	PAVEMENT SEALER 24"	LF	733.000		733.000	
	666-6300	RE PM W/RET REQ TY I (W)4"(BRK)(100MIL)	LF	13,780.000		13,780.000	
	666-6303	RE PM W/RET REQ TY I (W)4"(SLD)(100MIL)	LF	57,040.000		57,040.000	
	666-6312	RE PM W/RET REQ TY I (Y)4"(BRK)(100MIL)	LF	8,900.000		8,900.000	
	666-6315	RE PM W/RET REQ TY I (Y)4"(SLD)(100MIL)	LF	72,930.000		72,930.000	
	666-6342	REF PROF PAV MRK TY I(W)4"(SLD)(100MIL)	LF	2,720,590.000		2,720,590.000	
	666-6344	REF PROF PAV MRK TY I(Y)4"(BRK)(100MIL)	LF	320,840.000		320,840.000	
	666-6345	REF PROF PAV MRK TY I(Y)4"(SLD)(100MIL)	LF	923,450.000		923,450.000	
	668-6089	PREFAB PAV MRK TY C (W) (RR XING)	EA	1.000		1.000	
	677-6007	ELIM EXT PAV MRK & MRKS (24")	LF	262.000		262.000	
	6056-6002	PREFORMED CENTERLINE RUMBLE STRIP	LF	114,670.000		114,670.000	
	6185-6005	TMA (MOBILE OPERATION)	DAY	211.000		211.000	
	08	SAFETY CONTINGENCY (NON-PART)	LS	1.000		1.000	
	18	EROSION CONTROL MAINTENANCE: CONTRACTOR FORCE ACCOUNT WORK (PART)	LS	1.000		1.000	



DISTRICT	COUNTY	CCSJ	SHEET
San Angelo	Tom Green	0907-00-197	7

LOCATION	MS 666	666	666	666	666	666	666	666	666	666	666	666	668	677	6056	
	6036	6048	6138	6147	6230	6300	6303	6312	6315	6342	6344	6345	6089	6007	6002	
						RE PM	RE PM	RE PM	RE PM				PREFAB	ELIM		
	REFL PAV	REFL PAV	REFL PAV	REFL PAV	PAVEMENT	W/RET REG	W/RET REG	W/RET REQ	W/RET REQ	REF PROF	REF PROF	REF PROF	DAV MOK	EXT	PREFORMED	
	MRK TY I (W)8"(SLD)	MRK TY I (W)24"(SLD)	MRK TY I (Y)8"(SLD)(MRK TY I (Y)24"(SLD)	SEALER	TY I	TY I	TY I	TY I	PAV MRK TY I(W)4"(SLD)(PAV MRK TY I(Y)4"(BRK)(PAV MRK TY I(Y)4"(SLD)	TY C (W)	PAV MRK &	CENTERLINE RUMBLE	
	(100MIL)	(100MIL)	100MIL)	(100MIL)	24"	(W)4"(BRK)	(W)4"(SLD)		(Y)4"(SLD)	100MIL)	100MIL)	(100MIL)	(RR XING)	MRKS	STRIP	
						(100MIL)	(100MIL)	(100MIL)	(100MIL)				XING)	(24")		
	LF	1 F	IF	I F	I F	1 F	LF	I F	LF	LF	LF	IF	EA	I F	LF	
NDEX A SHEET 1 OF 2 FM 2288	704	<i>L</i> ,		L/		4,000	L1	3,450	13,820	L/	120	1,290	E.A.			
INDEX B SHEET 1 OF 3 SL 306	2,170	72	887	375		2,830	5,160	5,450	4,500		120	1,290		72		
INDEX C SHEET 1 OF 2 SL 378	576	25	007	575		130	5,100		4,500	18,850	2,120	4,900		12	800	
INDEX C SHEET I OF 2 SL 578	570	64			39	150				61,500	6,900	16,300			2,180	
NDEX E SHEET 1 OF 2 FM 2334		102					2,750	170	1,340	72,000	8,710	3,300			4,350	
NDEX F SHEET 1 OF 2 FM 2334		102		+			2,750	170	1,540	98,000	11,740	16,000			4,540	
INDEX F SHEET 1 OF 2 FM 765		123								98,000 83,610	7,720	37,750			2,000	
NDEX H SHEET 1 OF 2 US 277	505	38		+				+		127,530	14,840	37,750			3,840	
NDEX H SHEET 1 OF 2 05 277 NDEX I SHHET 1 OF 2 FM 1692		47		+	14		6.080	1.450	3.660	5.120	700	840			220	
IDEX J SHEET 1 OF 2 FM 1692		47		+	14		0,000	2,230	3,660 5,950	J,120	11,780	16,740	1	9	4,500	
IDEX J SHEET I OF 2 US 67 FRI INDEX K SHEET 1 OF 2 SH 153		313			138	230	1,560	2,230	<i>5,950</i> <i>4,300</i>	166,000	19,490	40,000	1	9	6,350	
INDEX K SHEET 1 OF 2 SH 155 INDEX L SHEET 1 OF 2 SL 438		245		-	40	230	1,560	50	4,300	13,180	1,660	11,550		80	380	
INDEX L SHEET I OF 2 SL 438		99			40 8		11,190		10,450	47,400	5,280	12,800		00	1,790	
INDEX N SHEET 1 OF 2 SH 158	130	51			26		2,970	100	2,700	40,700	4,820	11,860			1,790	
INDEX N SHEET 1 OF 2 SH 158	318	236			20	1,660	7,430	240	7,350	113,650	11,890	36,960			3,700	
INDEX P SHEET 1 OF 2 SH 208	127	178			24	520	5,730	240	5,600	148,500	13,300	67,400			3,530	
INDEX I SHEET I OF 2 SH 200	127	76				60	5,750		5,000	51,500	5,790	12,000		26	2,260	
NDEX R SHEET 1 OF 2 RM 1672	217	86				00				18,700	1,660	9,900		10	265	
INDEX S SHEET 1 OF 2 SH 158	217	197			18	3,220	6,930	800	970	127,000	15,900	14,250		10	6,180	
INDEX 5 SHEET 1 OF 2 SH 198		209			93	5,220	0,950	000	970	189,300	23,110	6,650			11,470	
NDEX U SHEET 1 OF 1 RM 2401		209			35					11,830	1,480	0,050			740	
INDEX V SHEET 1 OF 2 RM 33	337	183			183	140	950	60	1,710	152,500	18,200	17,150			7,945	
INDEX V SHEET 1 OF 2 RM 33	557	120			98	480	550	00	1,710	21,100	23,630	32,500			10,955	
INDEX X SHEET 1 OF 2 SH 137		10			10	310				75,090	7,970	23,200			2,550	
INDEX Y SHEET 1 OF 2 SH 137	162	29			10	200				131,200	15,440	21,100			5,970	
IDEX Z SHEET 1 OF 2 IH 10 FRT	102	76				200				139,000	18,690	41,200			6,590	
INDEX AA SHEET 1 OF 2 FM 381	234	369			20		4,990	350	3,350	186,000	19,800	32,700			9,400	
NDEX BB SHEET 1 OF 2 FM 1929	82	82					,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		2,220	88,100	8,690	34,200		L	2,400	
NDEX CC SHEET 1 OF 2 US 190		54					1,300		1,230	116,540	8,500	71,600		L	1,380	
IDEX DD SHEET 1 OF 2 FM 1311	70	12		1		1			-,200	500	5,480	20,400			1,290	
NDEX EE SHEET 1 OF 2 US 377		48								99,700	4,000	74,500			1,230	5. lt. 11.
INDEX FF SHEET 1 OF 3 US 83	1,658	185		1	12			1		127,600	9,060	75,900		65	2,200	
INDEX GG SHEET 1 OF 1 US 83	-,000			1				1		67,790	6,040	35,010			1,090	ATE. OF. TE
										37,060	3,680	15,700			845	
INDEX HH SHEET 1 OF 1 US 83		17		1				1		84,040	2,650	69,500			490	j. A
INDEX HH SHEET 1 OF 1 US 83 INDEX II SHEET 1 OF 1 US 83				1	1	13,780	57,040	8,900	72,930	2,720,590	320,840	923,450		262	114,670	EDWIN STEVEN KLOE

QUANTITY SUMMARY

SHEET 1 OF 1			NOT	то	SCALE
©TxDOT 2020	CONT	SECT	JOB		HIGHWAY
SHEET ISSUED OR LAST REVISED	0907	00	197, ETC		VA
03-20	DIST		COUNTY		SHEET NO.
	SJT	T	OM GREEN, E	TC	8

GENERAL NOTES

- 1. When a contractor force account "Safety Contingency" has been established for the project, it is for work zone enhancements that were unforeseen in the project planning and design stage, but would improve the effectiveness of the traffic control plan. These enhancements will be mutually agreed upon by the Engineer and the Contractor's Responsible Person based on weekly or more frequent traffic management reviews on the project. The Engineer may choose to use existing bid items if doing so does not slow implementation of work zone enhancements
- 2. Shadow, lead, trail, and ramp control vehicles shown on the plans are required.
- 3. Use high level warning flags on advance warning signs during daytime operations.
- 4. Provide flaggers at such times and locations as directed to ensure the safe passage of traffic through construction areas. When flaggers are used to control traffic, furnish and install signs CW20-7 "FLAGGER SYMBOL", CW20-7aD "FLAGGER AHEAD", and CW3-4 "BE PREPARED TO STOP". Flaggers shall use 24 in. STOP/SLOW paddles.
- 5. Temporarily relocate existing mailbox assemblies on portable mailbox stands as shown on the plans, or as directed. Use materials conforming to the Compliant Work Zone Traffic Control Device List (CWZTCDL).
- 6. Prior to each work day, make provisions to exclude vehicles from parking within work areas.
- 7. Temporarily relocate existing permanent sign assemblies to temporary supports as shown on the plans, or as directed.
- 8. Omit advance warning signs and furnish and install reduced size signs CW20-1 "ROAD WORK AHEAD" mounted back to back with reduced size signs G20-2 "END ROAD WORK" signs at intersecting city streets and county roads.
- 9. Furnish and install signs CW20-1D "ROAD WORK AHEAD", G20-1aT "ROAD WORK ←NEXT X MILES, NEXT X MILES→", and G20-2 "END ROAD WORK" at intersecting state highways.
- 10. Sign and buffer spacing may be altered to fit field conditions, as directed.
- 11. In addition to providing a Contractor's Responsible Person and a phone number for emergency contact, have employee(s) available to respond on the project for emergencies and for taking corrective measures within 30 minutes.
- 12. Cones may be used as the typical channelizing device for freeway surfacing projects.
- 13.28 in. tall cones will be allowed only for short duration or short term stationary operations when workers are present to maintain the devices upright and in proper location. Intermediate term stationary work areas should use drums, vertical panels, or 42 in. tall two-piece cones.
- 14. All construction signs and barricades placed during any phase of work shall remain in place until removal is approved by the Engineer.
- 15. The Engineer may direct the Contractor to furnish additional signs and barricades as required to maintain traffic flow, detours and motorist safety during construction.
- 16.Warning signs for long term stationary work should be mounted at 7 ft. to the bottom of the sign.
- 17. For long 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.
- 18. All motor vehicle equipment having an obstructed view to the rear shall have a reverse signal alarm audible above the surrounding noise level.
- 19. Traffic control devices denoted with the triangle symbol on the plans may be omitted
- 20. When sheet WZ(RS) is included in the plans, furnish and install temporary rumble strips for daytime lane closures. Do not use temporary rumble strips on freeways or expressways.
- 21.When sheet WZ(BRK) is included in the plans, furnish and install signs CW21-1T "GIVE US A BRAKE".
- 22. Flags attached to signs shown in the plans are required.
- 23. Signs END ROAD WORK (G20-2) may be omitted when conflicting with G20-2 signs already in place on the project.
- 24. The Engineer will determine advisory speeds to be shown on plaques CW13-1P.
- 25. Temporary work zone devices (including portable barriers) manufactured after December 31, 2019 must have been successfully tested to the 2016 edition of Manual for Assessing Safety Hardware (MASH). Such devices manufactured on or before this date, and successfully tested to either National Cooperative Highway Research Program (NCHRP) Report 350 or the 2009 edition of MASH, may continue to be used.

TRUCK MOUNTED ATTENUATOR REQUIREMENTS

Provide the number of vehicles with truck mounted attenuators listed in the table below. The Contractor shall determine if multiple operations will occur at the same time, to determine the total number of truck mounted attenuators needed for the project.

WZ(BTS-1)	0	TCP(2-3)	0	TCP(6-1)
TCP(1-1)	0	TCP(2-4)	0	TCP(6-2)
TCP(1-2)	0	TCP(2-5)	0	TCP(6-3)
TCP(1-3)	0	TCP(2-6)	0	TCP(6-4)
TCP(1-4)	0	TCP(3-1)	2	TCP(6-5)
TCP(1-5)	0	TCP(3-2)	0	TCP(6-6)
TCP(1-6)	0	TCP(3-3)	2	TCP(6-7)
TCP(2-1)	0	TCP(3-4)	1	TCP(6-8)
TCP(2-2)	0	TCP(5-1)	0	TCP(6-9)
TRAFFIC CONTROL	PLAN PILOT	VEHICLE OPERATION		
TRAFFIC CONTROL	PLAN TWO LA	ANE CLOSURES ON FO	UR LANE UNI	DIVIDED HIGHWAY
TRAFFIC CONTROL	PLAN LANE C	CLOSURES WITH BARR	IER	
TRAFFIC CONTROL	PLAN SHOULD	DER CLOSURES WITH	BARRIER	
TRAFFIC CONTROL	PLAN WORK S	SPACE NEAR SHOULDE	R	
TRAFFIC CONTROL	PLAN CROSSC	OVER CLOSURE		
TRAFFIC CONTROL	PLAN TURNAF	ROUND CLOSURE		
TRAFFIC CONTROL	PLAN LANE C	CLOSURES WITH TRAF	FIC SIGNAL	AND BARRIER
TRAFFIC CONTROL	PLAN LANE C	CLOSURES WITH TRAF	FIC SIGNAL	
TRAFFIC CONTROL	PLAN FREEWA	AY CLOSURE		

PORTABLE CHANGEABLE MESSAGE SIGN REQUIREMENTS

Provide the portable changeable message signs listed in the table below. The Contractor shall determine if multiple operations will occur at the same time, to determine the total number of portable changeable message signs needed for the project.

TCP(6-1)	0	TCP(6-4)	0	TCP(6-8)	0
TCP(6-2)	0	TCP(6-6)	0	TCP(6-9)	0
TCP(6-3)	0	TCP(6-7)	0		
TRAFFIC CONTROL	PLAN LANE C	CLOSURES WITH BARR	IER		0
TRAFFIC CONTROL	PLAN SHOULD	DER CLOSURES WITH	BARRIER		0
TRAFFIC CONTROL	PLAN LANE C	CLOSURES WITH TRAF	FIC SIGNAL	AND BARRIER	0
TRAFFIC CONTROL	PLAN LANE C	CLOSURES WITH TRAF	FIC SIGNAL		0
TRAFFIC CONTROL	PLAN FREEWA	AY CLOSURE			0

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TYPICAL USAGE

MOBILE

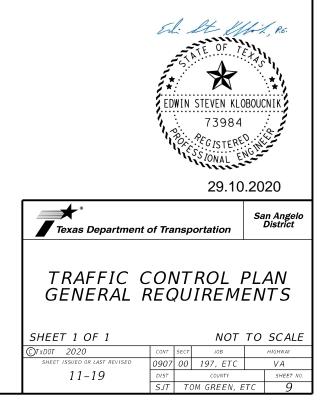
Work that moves continuously or intermittently (stopping for up to approximately 15 minutes).

SHORT DURATION Work that occupies a location up to 1 hour.

SHORT TERM STATIONARY Daytime work that occupies a location for more than 1 hour in a single daylight period.

INTERMEDIATE TERM STATIONARY Work that occupies a location more than one daylight period up to 3 days, or nighttime work lasting more than 1 hour.

LONG TERM STATIONARY Work that occupies a location more than 3 days.

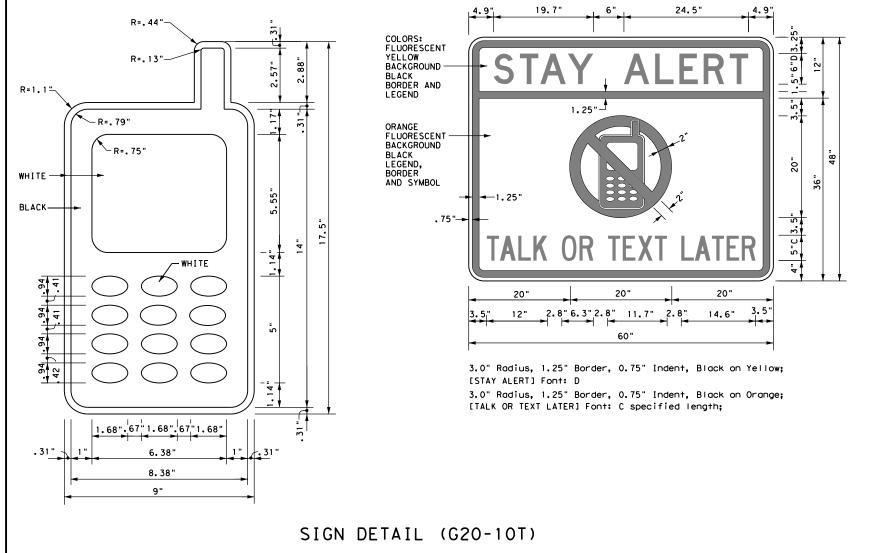


BARRICADE AND CONSTRUCTION (BC) STANDARD SHEETS GENERAL NOTES:

- 1. The Barricade and Construction Standard Sheets (BC sheets) are intended to show typical examples for placement of temporary traffic control devices, construction pavement markings, and typical work zone signs. The information contained in these sheets meet or exceed the requirements shown in the "Texas Manual on Uniform Traffic Control Devices" (TMUTCD).
- The development and design of the Traffic Control Plan (TCP) is the 2. responsibility of the Engineer.
- The Contractor may propose changes to the TCP that are signed and sealed 3. 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.
- Geometric design of lane shifts and detours should, when possible, meet the 5. 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.
- When projects abut, the Engineer(s) may omit the END ROAD WORK, TRAFFIC FINES DOUBLE, and other advance warning signs if the signing would be redundant and the work areas appear continuous to the motorists. If the adjacent project is completed first, the Contractor shall erect the necessary warning signs as shown on these sheets, the TCP sheets or as directed by the Engineer. The BEGIN ROAD WORK NEXT X MILES sign shall be revised to show appropriate work zone distance.
- The Engineer may require duplicate warning signs on the median side of divided highways where median width will permit and traffic volumes justify the signing.
- 8. All signs shall be constructed in accordance with the details found in the "Standard Highway Sign Designs for Texas," latest edition. Sign details not shown in this manual shall be shown in the plans or the Engineer shall provide a detail to the Contractor before the sign is manufactured.
- The temporary traffic control devices shown in the illustrations of the 9. BC sheets are examples. As necessary, the Engineer will determine the most appropriate traffic control devices to be used.
- 10. As shown on BC(2), the OBEY WARNING SIGNS STATE LAW sign, STAY ALERT TALK OR TEXT LATER (see Sign Detail G20-10T) and the WORK ZONE TRAFFIC FINES DOUBLE sign with plaque shall be erected in advance of the CSJ limits. However, the TRAFFIC FINES DOUBLE sign will not be required on projects consisting solely of mobile operation work, such as striping or milling edgeline rumble strips. The BEGIN ROAD WORK NEXT X MILES, CONTRACTOR and END ROAD WORK signs shall be erected at or near the CSJ limits.
- 11. Except for devices required by Note 10, 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 APPAREL NOTES:

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



Only pre-qualified products shall be used. The "Compliant Work Zone Traffic Control Devices List" (CWZTCD) describes pre-qualified products and their sources and may be found on-line at the web address given below or by contacting:

Texas Department of Transportation Traffic Operations Division - TE Phone (512) 416-3118

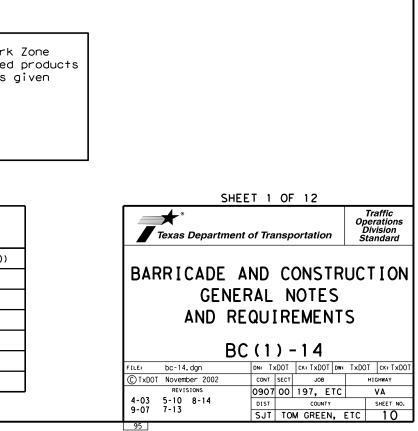
THE DOCUMENTS BELOW CAN BE FOUND ON-LINE AT http://www.txdot.gov
COMPLIANT WORK ZONE TRAFFIC CONTROL DEVICES LIST (CWZTCD)
DEPARTMENTAL MATERIAL SPECIFICATIONS (DMS)
MATERIAL PRODUCER LIST (MPL)
ROADWAY DESIGN MANUAL - SEE "MANUALS (ONLINE MANUALS)"
STANDARD HIGHWAY SIGN DESIGNS FOR TEXAS (SHSD)
TEXAS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

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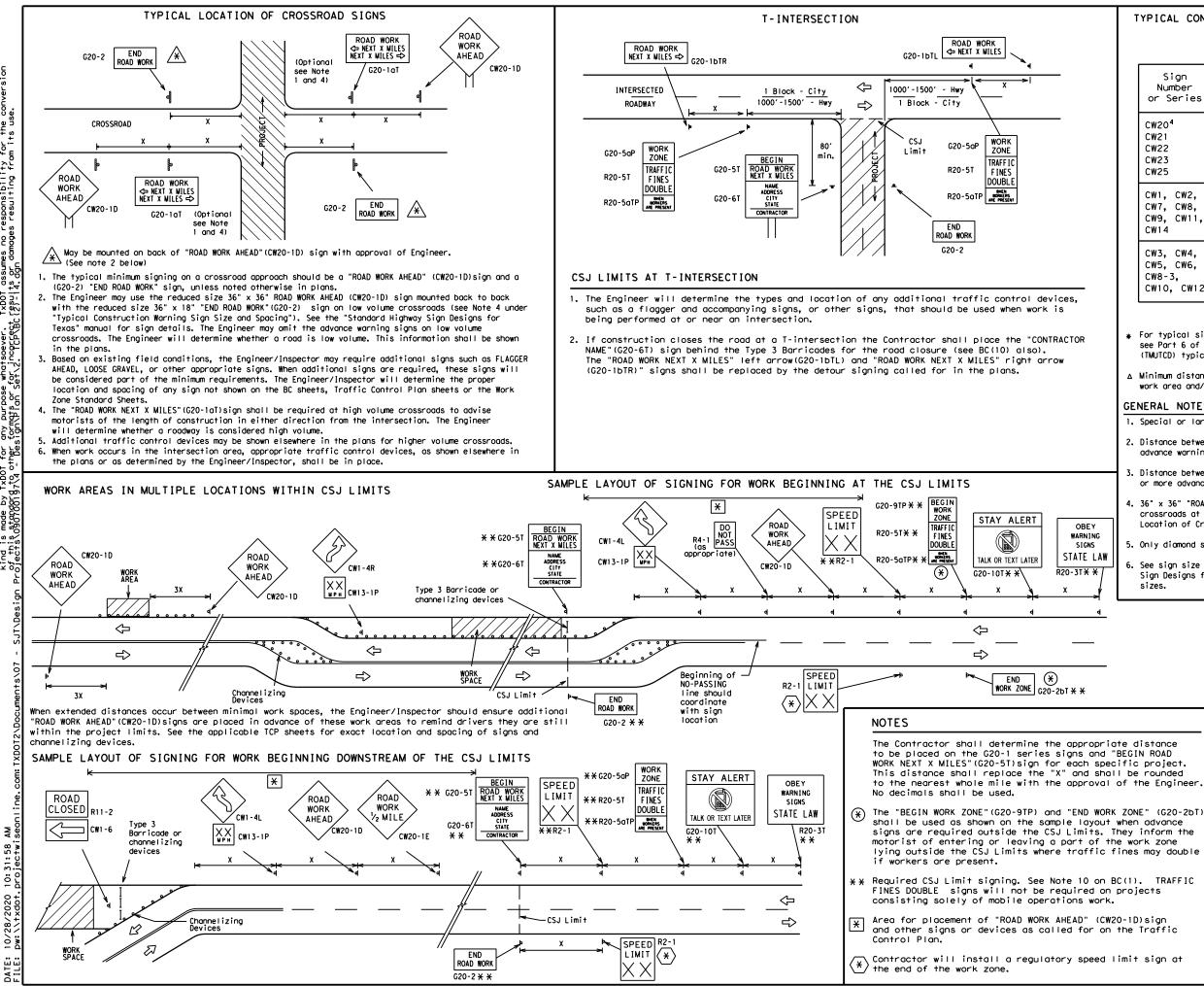
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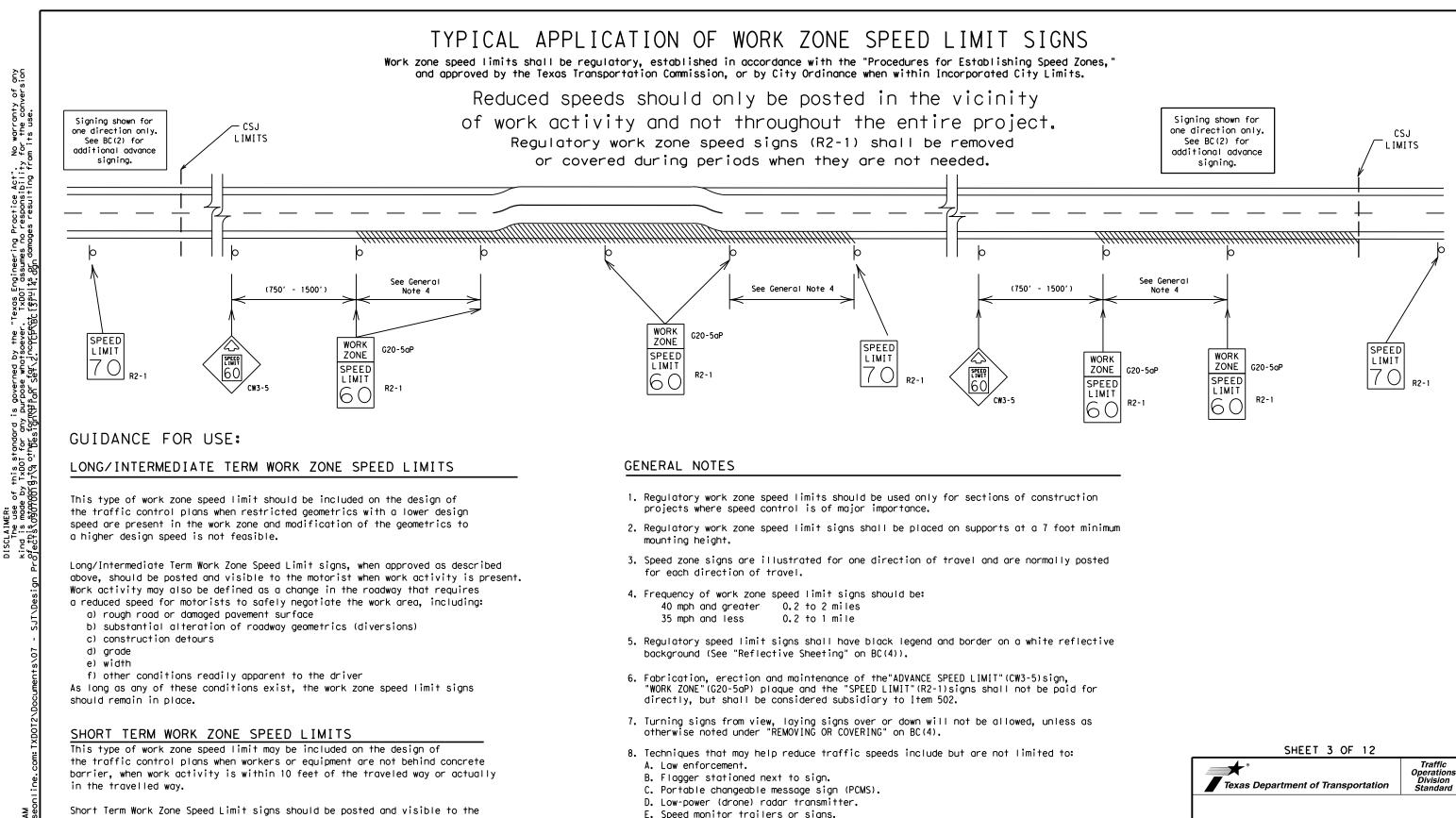


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T	TYPICAL CON	STRUCTION WA	RNING SIGN	SIZE AND SF	PACING ^{1,5,6}
		SIZE			ACING
	Sign Number or Series	Conventional Road	Expressway/ Freeway	Posted Speed	Sign ^A Spacing "X"
	CW20 ⁴ CW21 CW22	48" × 48"	48" × 48"	MPH 30	Feet (Apprx.) 120
	CW23 CW25			35 40 45	160 240 320
	CW1, CW2, CW7, CW8, CW9, CW11, CW14	36" × 36"	48" × 48"	50 55 60	400 500 ² 600 ²
	CW3, CW4, CW5, CW6, CW8-3,	48" × 48"	48" × 48"	65 70 75	700 ² 800 ² 900 ²
	CW10, CW12			80	1000 2
				*	* '
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BARRICADE AND CONSTRUCTION PROJECT LIMIT

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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)).

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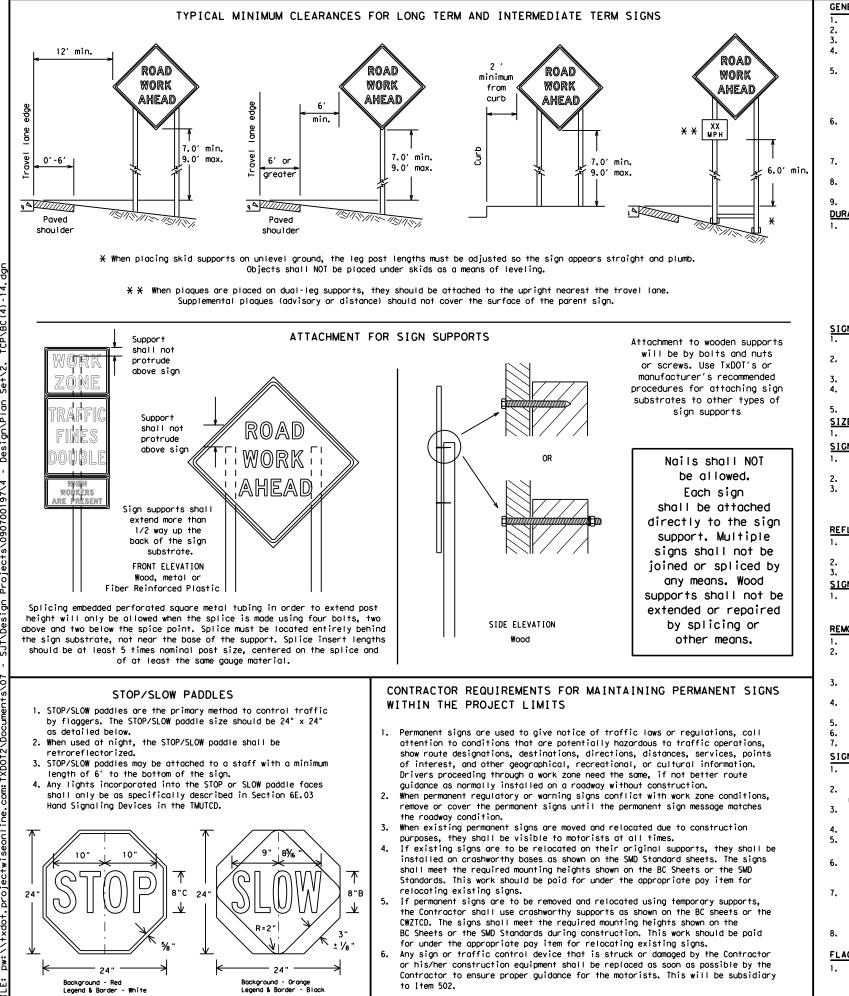
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9. Speeds shown on details above are for illustration only. Work Zone Speed Limits should only be posted as approved for each project.

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.

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GENERAL NOTES FOR WORK ZONE SIGNS

- Wooden sign posts shall be painted white. Barricades shall NOT be used as sign supports.
- auide the travelina public safely through the work zone.
- the Inspector's TxDOT diary and having both the Inspector and Contractor initial and date the agreed upon changes
- verify the correct procedures are being followed.
- damaged or marred reflective sheeting as directed by the Engineer/Inspector.
- for identification shall be 1 inch.
- The Contractor shall replace damaged wood posts. New or damaged wood sign posts shall not be spliced. DURATION OF WORK (as defined by the "Texas Manual on Uniform Traffic Control Devices" Part 6)
- regard to crashworthiness and duration of work requirements. Long-term stationary - work that occupies a location more than 3 days.
- b. 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. d. Mobile - work that moves continuously or intermittently (stopping for up to approximately 15 minutes.)

SIGN MOUNTING HEIGHT

- as shown for supplemental plaques mounted below other signs.
- the around. Long-term/Intermediate-term Signs may be used in lieu of Short-term/Short Duration signing.
- appropriate Long-term/Intermediate sign height.
- SIZE OF SIGNS

SIGN SUBSTRATES

- centers. The Engineer may approve other methods of splicing the sign face, REFLECTIVE SHEETING

- 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.

SIGN LETTERS

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.
- 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
- 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

- 1. 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 sandbaas 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 CWZTCD 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.
- Sandbaas shall NOT be placed under the skid and shall not be used to level sign supports placed on slopes.

FLAGS ON SIGNS

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.

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Contractor shall install and maintain signs in a straight and plumb condition and/or as directed by the Engineer.

All signs shall be installed in accordance with the plans or as directed by the Engineer. Signs shall be used to regulate, warn, and

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 omitted 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 Contractor shall furnish sign supports listed in the "Compliant Work Zone Traffic Control Device List" (CWZTCD). 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

The Contractor is responsible for installing signs on approved supports and replacing signs with damaged or cracked substrates and/or

Identification markings may be shown only on the back of the sign substrate. The maximum height of letters and/or company logos used

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

Intermediate-term stationary - work that occupies a location more than one daylight period up to 3 days, or nighttime work lasting

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

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

Short-term/Short Duration signs shall be used only during daylight and shall be removed at the end of the workday or raised to

Regulatory signs shall be mounted at least 7 feet, but not more than 9 feet, above the paved surface regardless of work duration.

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

1. 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"

All signs shall be retroreflective and constructed of sheeting meeting the color and retro-reflectivity requirements of DMS-8300 Orange sheeting, meeting the requirements of DMS-8300 Type BFL or Type CFL, shall be used for rigid signs with orange backgrounds.

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

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

entire sign face and maintain their opaque properties under automobile headlights at night, without damaging the sign sheeting.

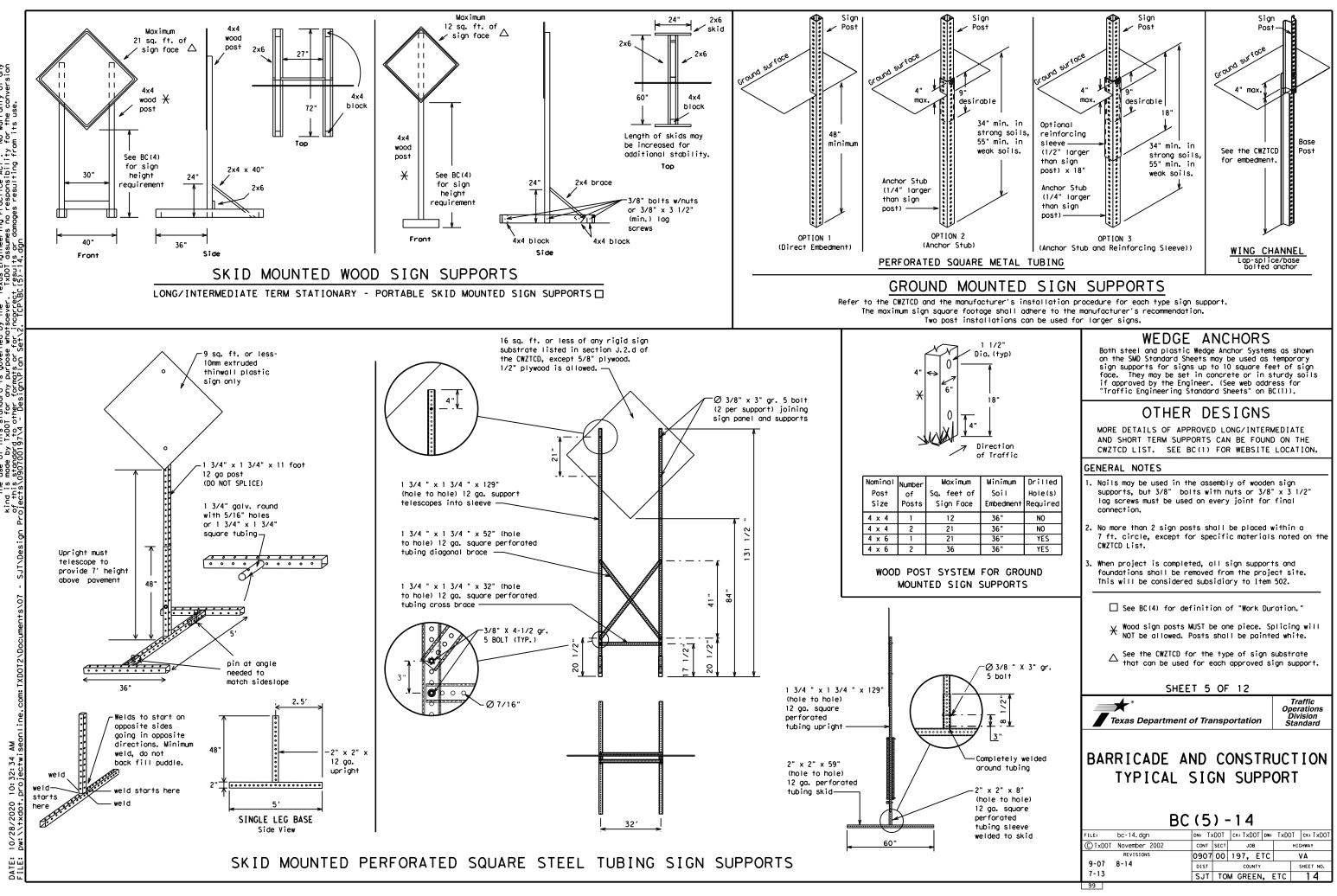
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Texas Department of Transportation

Traffic Operation Division Standard

BARRICADE AND CONSTRUCTION TEMPORARY SIGN NOTES

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ned by the "Texas Engineering Practice Act". No warranty of any whatsoever. IxDD1 assumes no responsibility for the conversion for incorrect results or damages resulting from its use. of this standard is of by TxDOI for any pur dard to other formation 0019714 - Design/P I SCLAIN The Ind is

WHEN NOT IN USE, REMOVE THE PCMS FROM THE RIGHT-OF-WAY OR PLACE THE PCMS BEHIND BARRIER OR GUARDRAIL WITH SIGN PANEL TURNED PARALLEL TO TRAFFIC

PORTABLE CHANGEABLE MESSAGE SIGNS

- 1. The Engineer/Inspector shall approve all messages used on portable changeable message signs (PCMS).
- Messages on PCMS should contain no more than 8 words (about four to 2. eight characters per word), not including simple words such as "TO, "FOR, " "AT, " etc.
- 3. Messages should consist of a single phase, or two phases that alternate. Three-phase messages are not allowed. Each phase of the message should convey a single thought, and must be understood by itself.
- 4. Use the word "EXIT" to refer to an exit ramp on a freeway; i.e., "EXIT CLOSED." Do not use the term "RAMP."
- 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.
- Do not use the word "Danger" in message.
 Do not display the message "LANES SHIFT LEFT" or "LANES SHIFT RIGHT" on a PCMS. Drivers do not understand the message.
- 13. Do not display messages that scroll horizontally or vertically across the face of the sign.
- 14. The following table lists abbreviated words and two-word phrases that are acceptable for use on a 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	Northbound	(route) N
Construction Ahead	CONST AHD	Parking	PKING
CROSSING	XING	Road	RD
Detour Route	DETOUR RTE	Right Lane	RT_LN
Do Not	DONT	Saturday	SAT
East	F	Service Road	SERV RD
Eastbound	(route) E	Shoulder	SHLDR
	EMER	Slippery	SLIP
Emergency Emergency Vehicle	EMER VEH	South	S
		Southbound	(route) S
Entrance, Enter Express Lane	EXP LN	Speed	SPD
		Street	ST
Expressway	XXXX FT	Sunday	SUN
XXXX Feet	FOG AHD	Telephone	PHONE
Fog Ahead		Temporary	TEMP
Freeway	FRWY, FWY	Thursday	THURS
Freeway Blocked	FWY BLKD	To Downtown	TO DWINTN
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
lt Is	ITS	Weight Limit	
Junction	JCT	West	W
Left	LFT	Westbound	(route) W
Left Lane	LFT LN	Wet Pavement	WET PVMT
Lane Closed	LN CLOSED	Will Not	WONT
Lower Level	LWR LEVEL		1
Maintenance	MAINT	J	

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.)

MERGE

RIGHT

DETOUR

NEXT

X EXITS

USE

EXIT XXX

STAY ON

US XXX

SOUTH

TRUCKS

USE

US XXX N

WATCH

FOR

TRUCKS

EXPECT

DELAYS

REDUCE

SPEED

XXX FT

USE

OTHER

ROUTES

STAY

ΤN

LANE

Action to Take/Effect on Travel

List

FORM

X LINES

RIGHT

USE

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PREPARE

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FOR

WORKERS

Phase 1: Condition Lists

Road/Lane/Ramp Closure List

		UTIE
FREEWAY CLOSED X MILE	FRONTAGE ROAD CLOSED	ROADWO XXX F
ROAD CLOSED AT SH XXX	SHOULDER CLOSED XXX FT	FLAGG XXXX
ROAD CLSD AT FM XXXX	RIGHT LN CLOSED XXX FT	R I GHT NARRO XXXX
RIGHT X LANES CLOSED	RIGHT X LANES OPEN	MERGI TRAFF XXXX
CENTER LANE CLOSED	DAYTIME LANE CLOSURES	LOOS GRAVE XXXX
NIGHT LANE CLOSURES	I-XX SOUTH EXIT CLOSED	DETOU X MIL
VARIOUS LANES CLOSED	EXIT XXX CLOSED X MILE	ROADWO PAST SH XX
EXIT CLOSED	RIGHT LN TO BE CLOSED	BUMF
MALL DRIVEWAY CLOSED	X LANES CLOSED TUE - FRI	TRAFF SIGNA XXXX
XXXXXXXX BLVD CLOSED	* LANES SHIFT in Phos	e 1 must be u

Other Co	ndition List
ROADWORK XXX FT	ROAD REPAIRS XXXX FT
FLAGGER XXXX FT	LANE NARROWS XXXX FT
RIGHT LN NARROWS XXXX FT	TWO-WAY TRAFFIC XX MILE
MERGING TRAFFIC XXXX FT	CONST TRAFFIC XXX FT
LOOSE GRAVEL XXXX FT	UNEVEN LANES XXXX FT
DETOUR X MILE	ROUGH ROAD XXXX FT
ROADWORK PAST SH XXXX	ROADWORK NEXT FRI-SUN
BUMP XXXX FT	US XXX EXIT X MILES
TRAFFIC SIGNAL XXXX FT	L ANE S SHIFT

used with STAY IN LANE in Phase 2.

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 Phase 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 IH, US, SH, FM and LP can be interchanged as
- appropriate.
- be interchanged as appropriate.
- 4. Highway names and numbers replaced as appropriate.
- ROAD, HIGHWAY and FREEWAY can be interchanged as needed.
- 6. AHEAD may be used instead of distances if necessary. 7. FT 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.

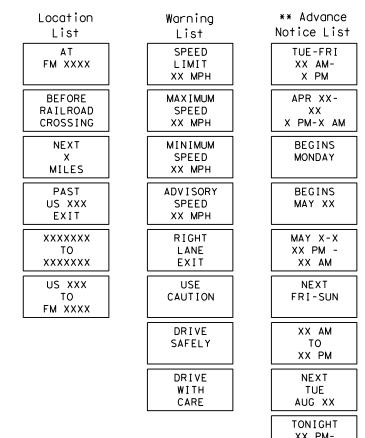
PCMS SIGNS WITHIN THE R.O.W. SHALL BE BEHIND GUARDRAIL OR CONCRETE BARRIER OR SHALL HAVE A MINIMUM OF FOUR (4) PLASTIC DRUMS PLACED PERPENDICULAR TO TRAFFIC ON THE UPSTREAM SIDE OF THE PCMS, WHEN EXPOSED TO ONE DIRECTION OF TRAFFIC. WHEN EXPOSED TO TWO WAY TRAFFIC. THE FOUR DRUMS SHOULD BE PLACED WITH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

FULL MATRIX PCMS SIGNS

- 1. When Full Matrix PCMS signs are used, the character height and legibility/visibility requirements shall be maintained as listed in Note 15 ur CHANGEABLE MESSAGE SIGNS" above.
- 2. When symbol signs, such as the "Flagger Symbol" (CW20-7) are represented graphically on the Full Matrix PCMS sign and, with the approval of shall maintain the legibility/visibility requirement listed above
- 3. When symbol signs are represented graphically on the Full Matrix PCMS, they shall only supplement the use of the static sign represented, and 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 some size arrow.

Roadway

Phase 2: Possible Component Lists

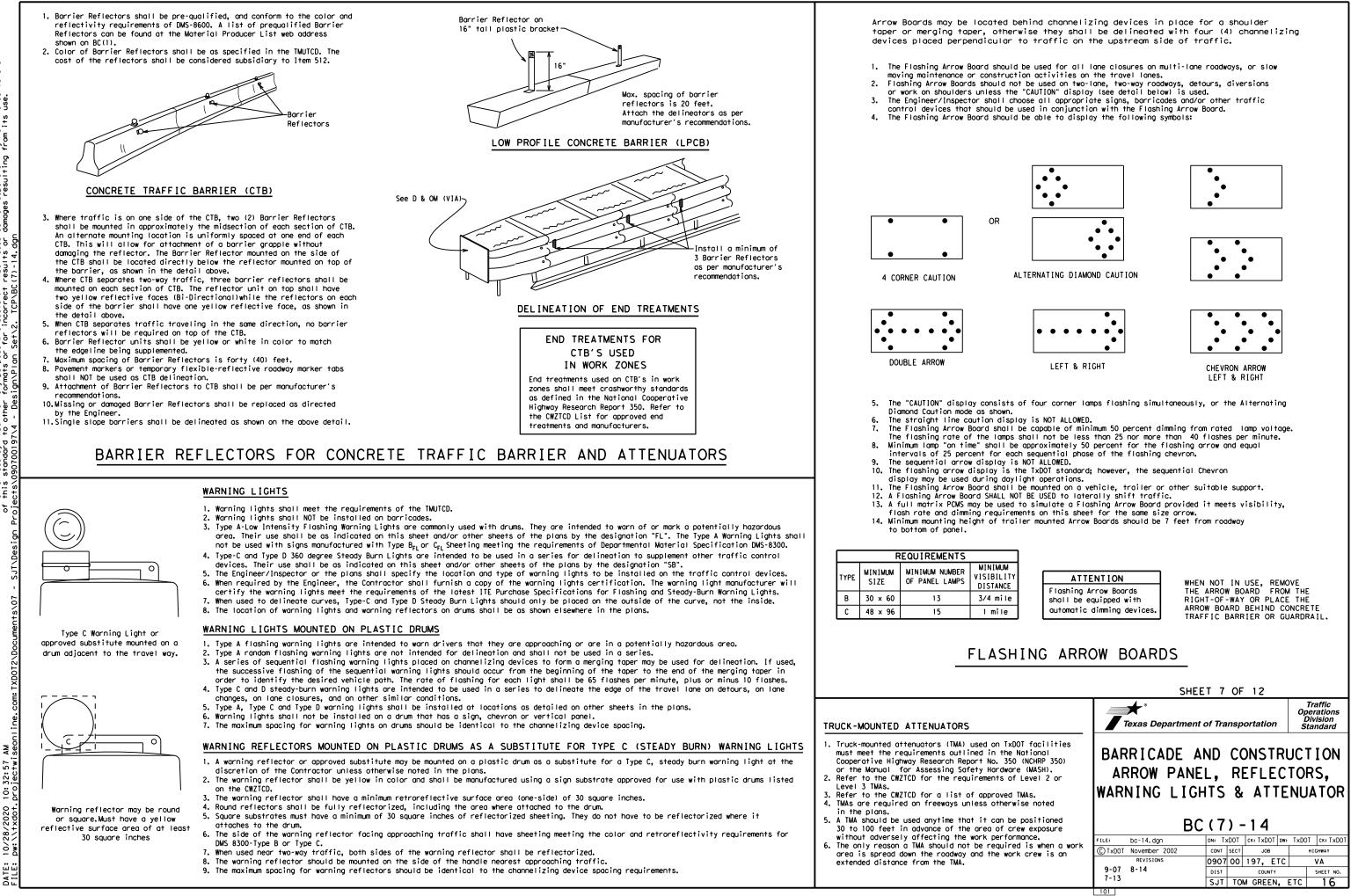


X X See Application Guidelines Note 6.

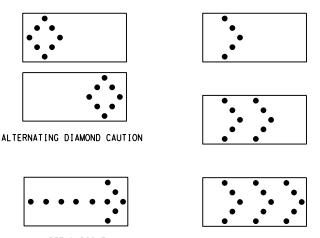
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EAST, WEST, NORTH and SOUTH (or abbreviations E, W, N and S) can

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GENERAL NOTES

- 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.
- The Contractor shall have a maximum of 24 hours to replace any plastic drums identified for replacement by the Engineer/Inspector. The replacement device must be an approved device.

GENERAL DESIGN REQUIREMENTS

- Pre-qualified plastic drums shall meet the following requirements:
- Plastic drums shall be a two-piece design; the "body" of the drum shall be the top portion and the "base" shall be the bottom.
- 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.
- Plastic drums shall be constructed of lightweight flexible, and deformable materials. The Contractor shall NOT use metal drums or single piece plastic drums as channelization devices or sign supports.
- 4. Drums shall present a profile that is a minimum of 18 inches in width at the 36 inch height when viewed from any direction. The height of drum unit (body installed on base) shall be a minimum of 36 inches and a maximum of 42 inches.
- 5. The top of the drum shall have a built-in handle for easy pickup and shall be designed to drain water and not collect debris. The handle shall have a minimum of two widely spaced 9/16 inch diameter holes to allow attachment of a warning light, warning reflector unit or approved compliant sign.
- 6. The exterior of the drum body shall have a minimum of four alternating orange and white retroreflective circumferential stripes not less than 4 inches nor greater than 8 inches in width. Any non-reflectorized space between any two adjacent stripes shall not exceed 2 inches in width.
- 7. Bases shall have a maximum width of 36 inches, a maximum height of 4 inches, and a minimum of two footholds of sufficient size to allow base to be held down while separating the drum body from the base.
- Plastic drums shall be constructed of ultra-violet stabilized, orange, high-density polyethylene (HDPE) or other approved material.
- 9. Drum body shall have a maximum unballasted weight of 11 lbs.
- 10. Drum and base shall be marked with manufacturer's name and model number.

RETROREFLECTIVE SHEETING

- 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 reflective sheeting shall be supplied unless otherwise specified in the plans.
- The sheeting shall be suitable for use on and shall adhere to the drum surface such that, upon vehicular impact, the sheeting shall remain adhered in-place and exhibit no delaminating, cracking, or loss of retroreflectivity other than that loss due to abrasion of the sheeting surface.

BALLAST

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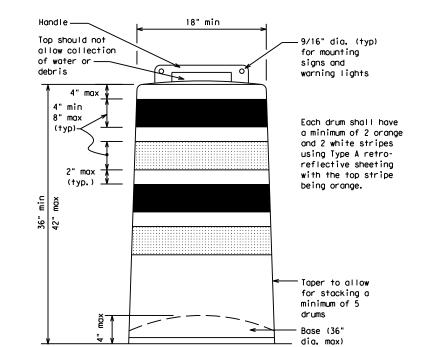
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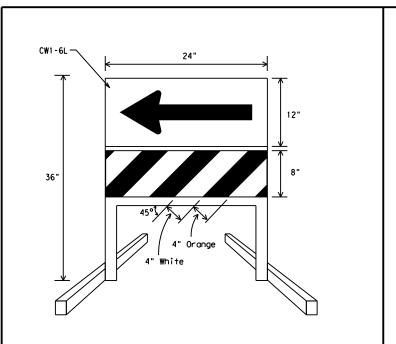
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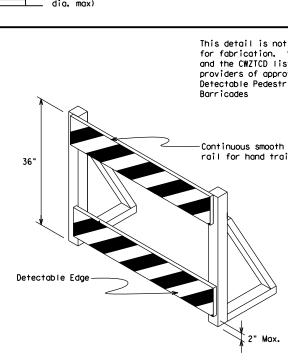
- Unballasted bases shall be large enough to hold up to 50 lbs. of sand. This base, when filled with the ballast material, should weigh between 35 lbs (minimum) and 50 lbs (maximum). The ballast may be sand in one to three sandbags separate from the base, sand in a sand-filled plastic base, or other 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.
- 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 pavement.





DIRECTION INDICATOR BARRICADE

- The Direction Indicator Barricade may be used in tapers, transitions, and other areas where specific directional auidance to drivers is necessary.
- guidance to drivers is necessary.If used, the Direction Indicator Barricade should be used in series to direct the driver through the transition and into the intended travel lane.
- 3. The Direction Indicator Barricade shall consist of One-Direction Large Arrow (CW1-6) sign in the size shown with a black arrow on a background of Type B_{FL}or Type C_{FL}Orange retroreflective sheeting above a rail with Type A retroreflective sheeting in alternating 4" white and orange stripes sloping downward at an angle of 45 degrees in the direction road users are to pass. Sheeting types shall be as per DMS 8300.
- Double arrows on the Direction Indicator Barricade will not be allowed.
- 5. Approved manufacturers are shown on the CWZICD List. Ballast shall be as approved by the manufacturers instructions.

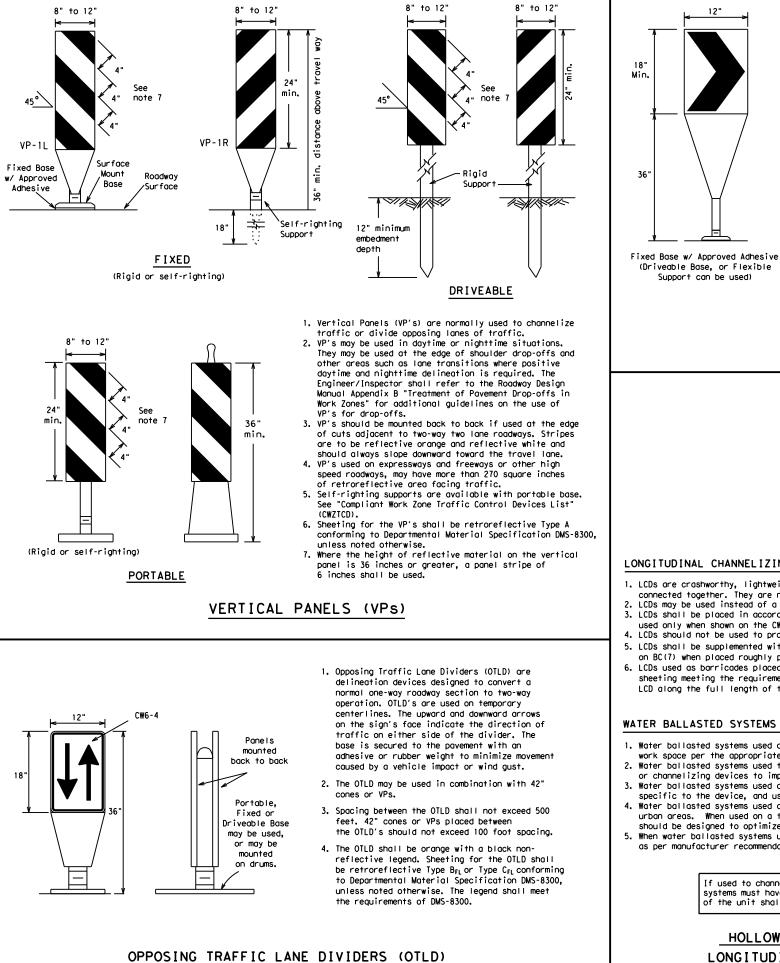


DETECTABLE PEDESTRIAN BARRICADES

- When existing pedestrian facilities are disrupted, cl relocated in a TIC zone, the temporary facilities sha detectable and include accessibility features consist the features present in the existing pedestrian facil
- 2. Where pedestrians with visual disabilities normally uncosed sidewalk, a device that is detectable by a perwith a visual disability traveling with the aid of a shall be placed across the full width of the closed set.
- Detectable pedestrian barricades similar to the one p above, longitudinal channelizing devices, some concrubarriers, and wood or chain link fencing with a cont detectable edging can satisfactorily delineate a pede path.
- 4. Tape, rope, or plastic chain strung between devices of detectable, do not comply with the design standards "Americans with Disabilities Act Accessibility Guide for Buildings and Facilities (ADAAG)" and should not as a control for pedestrian movements.
- 5. Worning lights shall not be attached to detectable p barricades.
- 6. Detectable pedestrian barricades may use 8" nominal barricade rails as shown on BC(10) provided that the rail provides a smooth continuous rail suitable for t trailing with no splinters, burrs, or sharp edges.

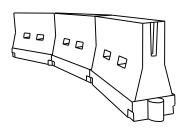
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	18" x 24" Sign 18" x 24" Sign 18" x 24" Sign 18" x 24" Sign 12" x 24" Vertical Panel 12" x 24" Vertical Panel 10'ider, Driveway sign DT0a, Keep Right Notices or other signs as approved by Engineer
	Plywood, Aluminum or Metal sign substrates shall NOT be used on plastic drums
	SIGNS, CHEVRONS, AND VERTICAL PANELS MOUNTED ON PLASTIC DRUMS
t intended	 Signs used on plastic drums shall be manufactured using substrates listed on the CWZTCD.
See note 3 st for oved rian	 Chevrons and other work zone signs with an orange background shall be manufactured with Type B_{FL} or Type C_{FL}Orange sheeting meeting the color and retroreflectivity requirements of DMS-8300, "Sign Face Material," unless otherwise specified in the plans.
n Hiling	3. Vertical Panels shall be manufactured with orange and white sheeting meeting the requirements of DMS-8300 Type A Diagonal stripes on Vertical Panels shall slope down toward the intended traveled lane.
	 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.
	 Signs shall be installed using a 1/2 inch bolt (nominal) and nut, two washers, and one locking washer for each connection.
	 Mounting bolts and nuts shall be fully engaged and adequately torqued. Bolts should not extend more than 1/2 inch beyond nuts.
	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.
losed, or	 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.
all be stent with lity.	SHEET 8 OF 12
use the rson I long cane sidewalk, pictured ete inuous	Traffic Operations Division Standard
lestrian are not in the clines be used	BARRICADE AND CONSTRUCTION CHANNELIZING DEVICES
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- 1. The chevron shall be a vertical rectangle with a minimum size of 12 by 18 inches.
- 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 B_{FL} or Type C_{FL} 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



LONGITUDINAL CHANNELIZING DEVICES (LCD)

12"

- 1. LCDs are crashworthy, lightweight, deformable devices that are highly visible, have good target va 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 de used only when shown on the CWZICD 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.
- 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) placed near the top of th LCD along the full length of the device.

WATER BALLASTED SYSTEMS USED AS BARRIERS

- 1. Water ballasted systems used as barriers shall not be used solely to channelize road users, but al work space per the appropriate NCHRP 350 crashworthiness requirements based on roadway speed and be
- 2. Water ballasted systems used to channelize vehicular traffic shall be supplemented with retrorefle or channelizing devices to improve daytime/nighttime visibility. They may also be supplemented with
- 3. Water ballasted systems used as barriers shall be placed in accordance to application and installa specific to the device, and used only when shown on the CWZTCD list.
- 4. Water ballasted systems used as barriers should not be used for a merging taper except in low spee urban areas. When used on a taper in a low speed urban area, the taper shall be delineated and the 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 a as per manufacturer recommendations or flared to a point outside the clear zone.

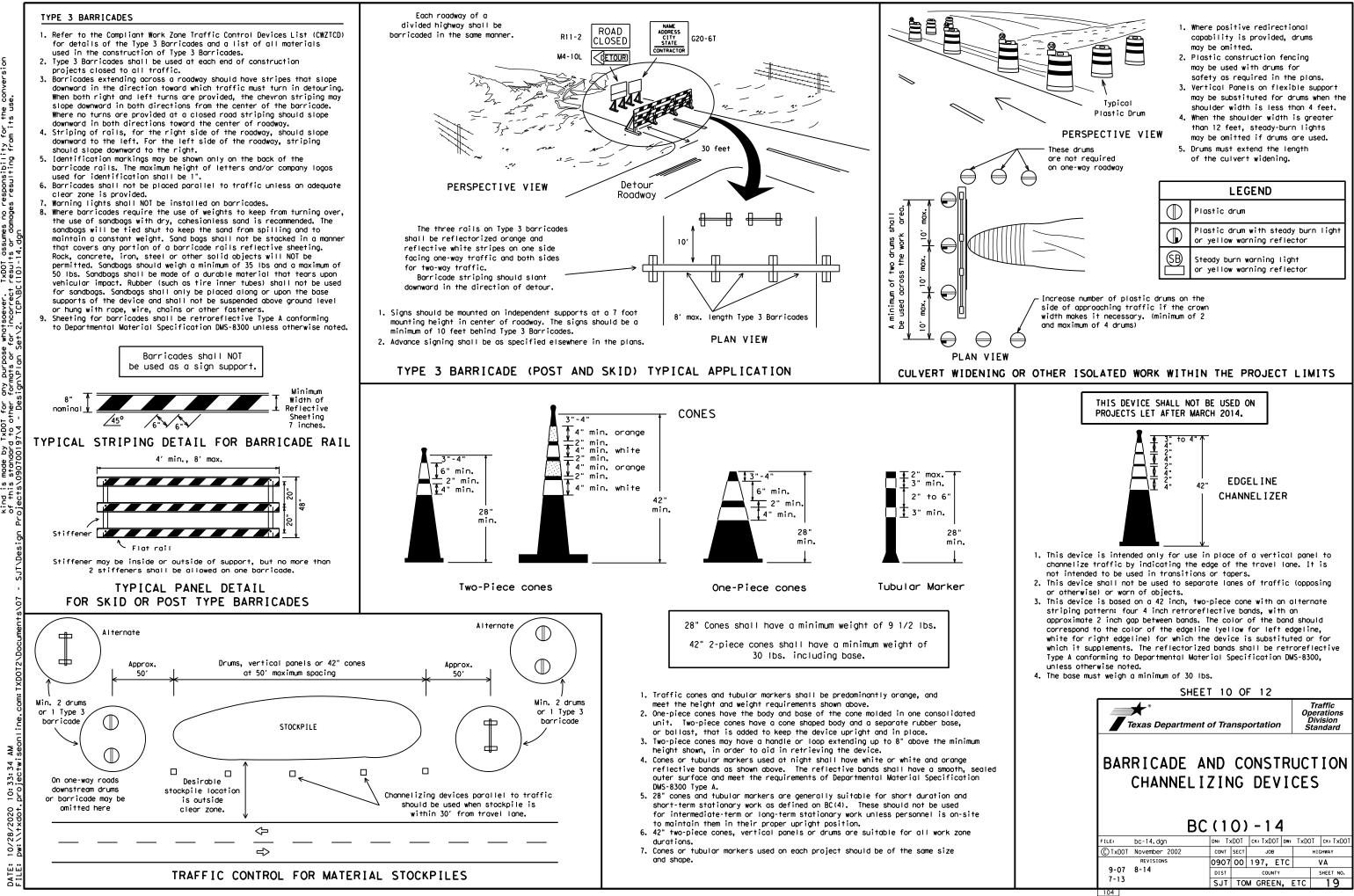
If used to channelize pedestrians, longitudinal channelizing devices or water ballast systems must have a continuous detectable bottom for users of long canes and the top of the unit shall not be less than 32 inches in height.

HOLLOW OR WATER BALLASTED SYSTEMS USED AS LONGITUDINAL CHANNELIZING DEVICES OR BARRIERS

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" (IMUTCD).
- 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.
- 3. 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.
- Pavement surfaces shall be prepared in a manner that ensures proper bonding between the adhesives, the fixed mount bases and the pavement surface. Adhesives shall be prepared and applied according to the manufacturer's recommendations.
- 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.

	Posted Speed	Formula	D	Minimur Vesirab Ver Lend X X	le	Spaci Channe	ed Maximum ing of elizing vices
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	35	$L = \frac{WS^2}{60}$	205 <i>'</i>	225'	245'	35′	70'
	40	- 60	265'	295'	320'	40′	80′
	45		450'	495′	540'	45′	90'
	50		500'	550'	600 <i>'</i>	50′	100'
	55	L=WS	550'	605′	660'	55′	110'
	60	L-#3	600′	660'	720′	60 <i>'</i>	120'
	65		650 <i>'</i>	715'	780′	65 <i>'</i>	130'
alue and can be	70		700′	770'	840'	70'	140'
	75		750′	825′	900′	75′	150′
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WORK ZONE PAVEMENT MARKINGS

GENERAL

- 1. The Contractor shall be responsible for maintaining work zone and existing pavement markings, in accordance with the standard specifications and special provisions, on all roadways open to traffic within the CSJ limits unless otherwise stated in the plans.
- 2. Color, patterns and dimensions shall be in conformance with the Texas Manual on Uniform Traffic Control Devices" (TMUTCD).
- 3. Additional supplemental pavement marking details may be found in the plans or specifications.
- 4. Pavement 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 is permitted.
- 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 on BC(12).
- 2. All raised pavement markers used for work zone markings shall meet the requirements of Item 672, "RAISED PAVEMENT MARKERS" and Departmental Material Specification DMS-4200 or DMS-4300.

PREFABRICATED PAVEMENT MARKINGS

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

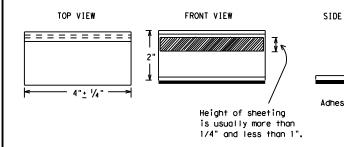
MAINTAINING WORK ZONE PAVEMENT MARKINGS

- 1. The Contractor will be responsible for maintaining work zone pavement markings within the work limits.
- 2. Work zone pavement markings shall be inspected in accordance with the frequency and reporting requirements of work zone traffic control device inspections as required by Form 599.
- 3. The markings should provide a visible reference for a minimum distance of 300 feet during normal daylight hours and 160 feet when illuminated by automobile low-beam headlights at night, unless sight distance is restricted by 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 Pavement Markings and Markers".
- 4. The removal of pavement markings may require resurfacing or seal coating portions of the roadway as described in Item 677.
- 5. Subject to the approval of the Engineer, any method that proves to be successful on a particular type pavement may be used.
- 6. Blast cleaning may be used but will not be required unless specifically shown in the plans.
- 7. Over-painting of the markings SHALL NOT BE permitted.
- 8. Removal of raised pavement markers shall be as directed by the Engineer.
- 9. Removal of existing pavement markings and markers will be paid for directly in accordance with Item 677, "ELIMINATING EXISTING PAVEMENT MARKINGS AND MARKERS, " unless otherwise stated in the plans.
- 10.Black-out marking tape may be used to cover conflicting existing 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 SECUR TEMPORARY FLEXIBLE-REFLECTIVE ROADWAY MARKE TABS TO THE PAVEMENT SURFACE

- 1. Temporary flexible-reflective roadway marker tabs used as guidema 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 roadway.
 - 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 pavement 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 tab 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.
- 3. Adhesive for guidemarks 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).

AN

10:33:47 projectwi

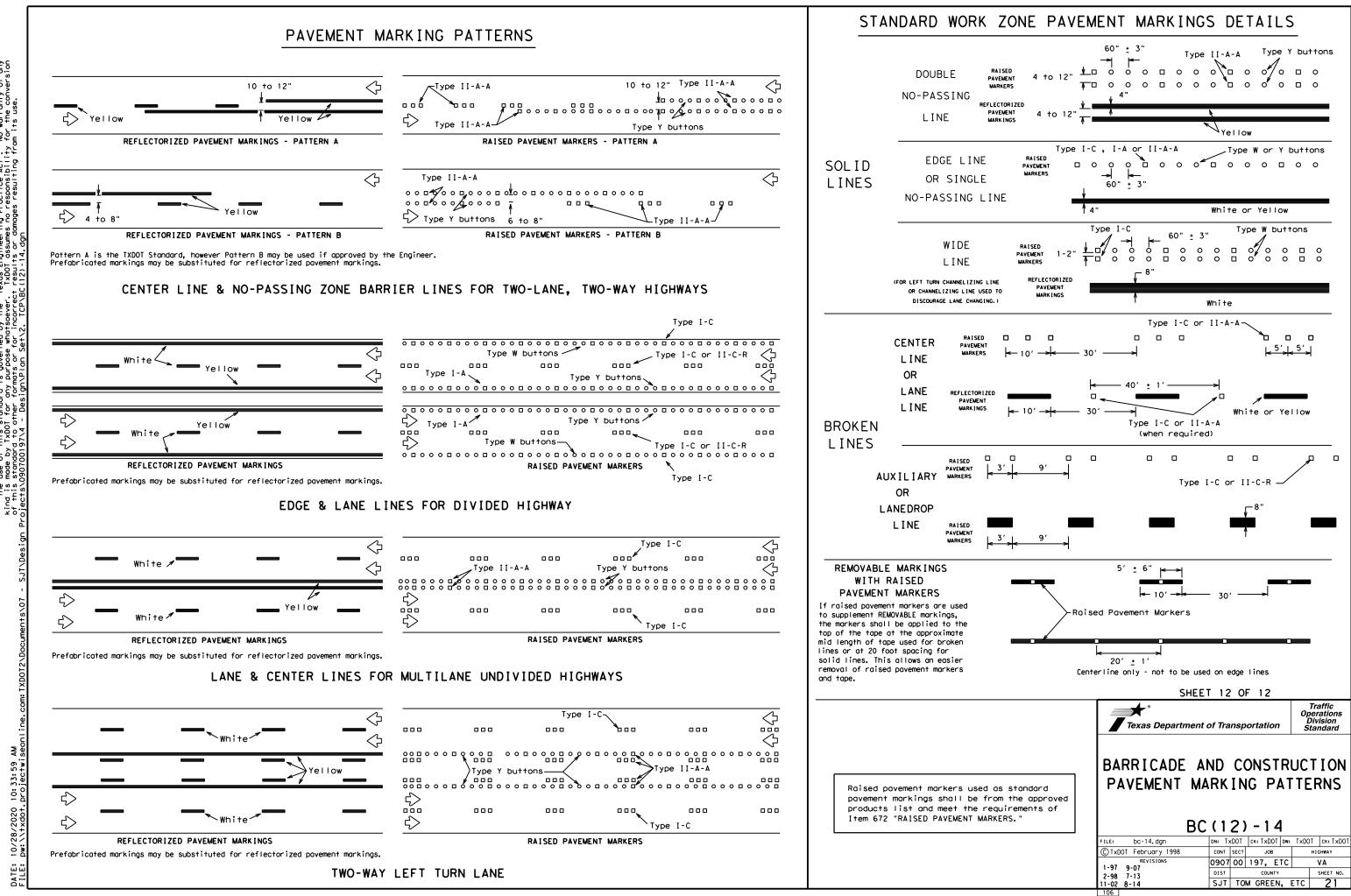
/28/2020

) 101 101

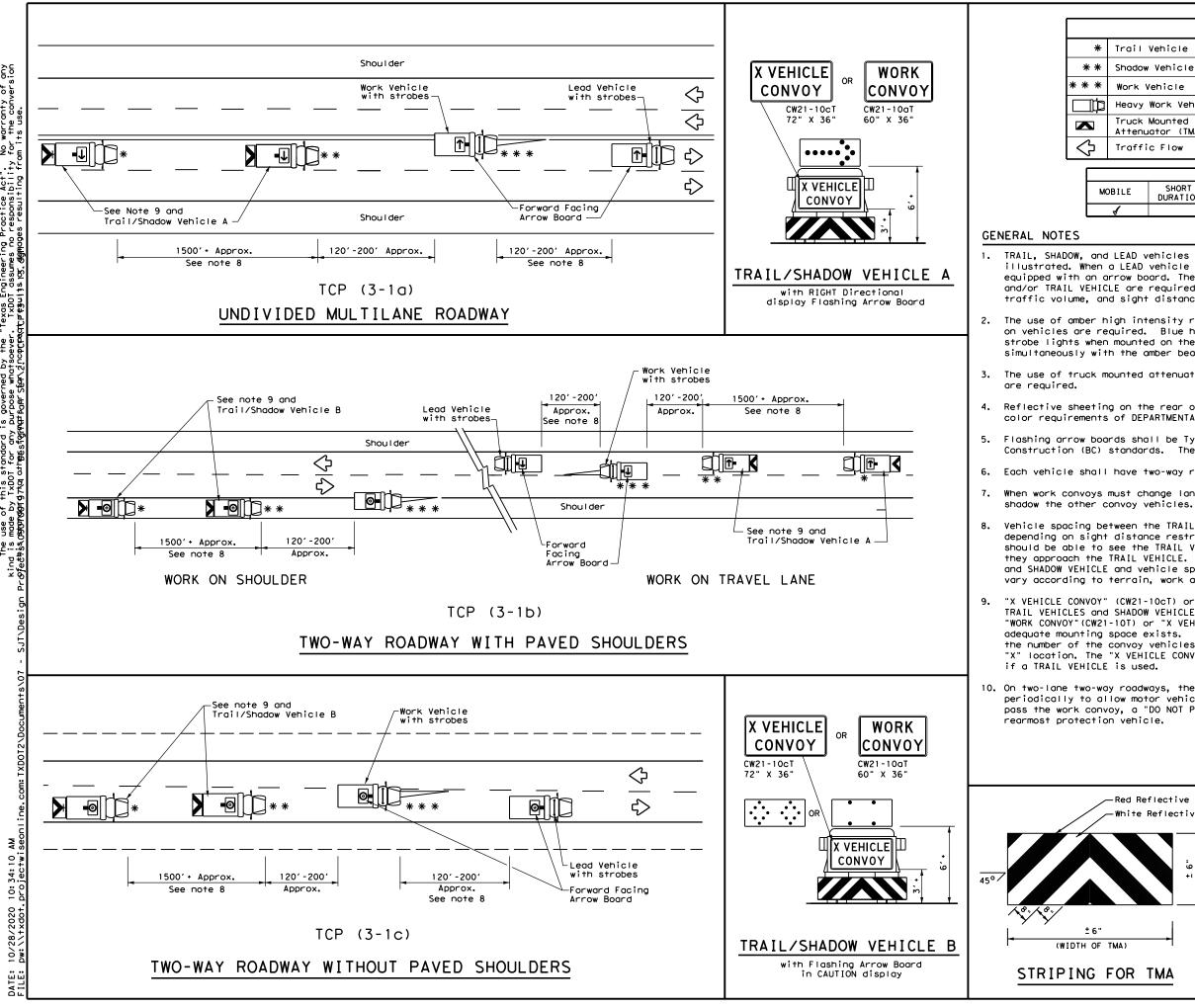
DATE: FIIF:

	DEPARTMENTAL MATERIAL SPECIFICAT	IONS
	PAVEMENT MARKERS (REFLECTORIZED)	DMS-4200
	TRAFFIC BUTTONS	DMS-4300
	EPOXY AND ADHESIVES	DMS-6100
VIEW	BITUMINOUS ADHESIVE FOR PAVEMENT MARKERS	DMS-6130
ſ	PERMANENT PREFABRICATED PAVEMENT MARKINGS	DMS-8240
	TEMPORARY REMOVABLE, PREFABRICATED PAVEMENT MARKINGS	DMS-8241
 ↑	TEMPORARY FLEXIBLE, REFLECTIVE ROADWAY MARKER TABS	DMS-8242
ve pod	A list of prequalified reflective raised pavement non-reflective traffic buttons, roadway marker to pavement markings can be found at the Material Pr web address shown on BC(1).	abs and othe
<u>-</u> R		
ks		

SHEET	Г 11	0	F 12			
Texas Department	of Tra	nsp	ortation		Ope Di	affic rations /ision ndard
BARRICADE AI PAVEMEN BC	IT I	MA		٩G		ION
FILE: bc-14.dgn	DN: T)	<dot ot ot ot ot ot ot ot ot ot ot ot ot o</dot 	ск: TxDOT	DW:	TxDOT	ск: TxDOT
© TxDOT February 1998	CONT	SECT	JOB		н)	GHWAY
REVISIONS 2-98 9-07	0907	00	197, E	тс		VA
1-02 7-13	DIST		COUNTY			SHEET NO.
11-02 8-14	SJT	TO	V GREEN	E		20
	50.			, -		20



ed by the "Texos Engineering Proctice Act". No warranty of any whotsoever. TxDOT assumes no responsibility for the conversion or incorrect results or damages resulting fram its use. this standard is y TxDOT for any I rd to other form 1a7/d - Design/ وم وح DISCLAIMER: The use o kind is made of this stand oiects\09070



ngineering Practice Act". No warranty of any assumes no responsibility for the conversion \$s 195, @@Mages resulting from its use AlMER: The use of this standard is governed is made by TxDOT for any purpose wha P\$\$(09/00/09/14/txd athg6sfgrightPaler SEAT);

LEGEND							
Trail	Vehicle						
Shadow Vehicle			ARROW BOARD DISPLAY				
Work Vehicle			₽	RIGHT Directional			
Heavy Work Vehicle			∎	LEFT Directional			
	Mounted lator (TMA)		₽	Double Arrow			
Traffic Flow			0	CAUTION (Alternating Diamond or 4 Corner Flash)			
TYPICAL USAGE							
ILE	SHORT DURATION			INTERMEDIATE TERM STATIONARY	LONG TERM STATIONARY		

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

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.

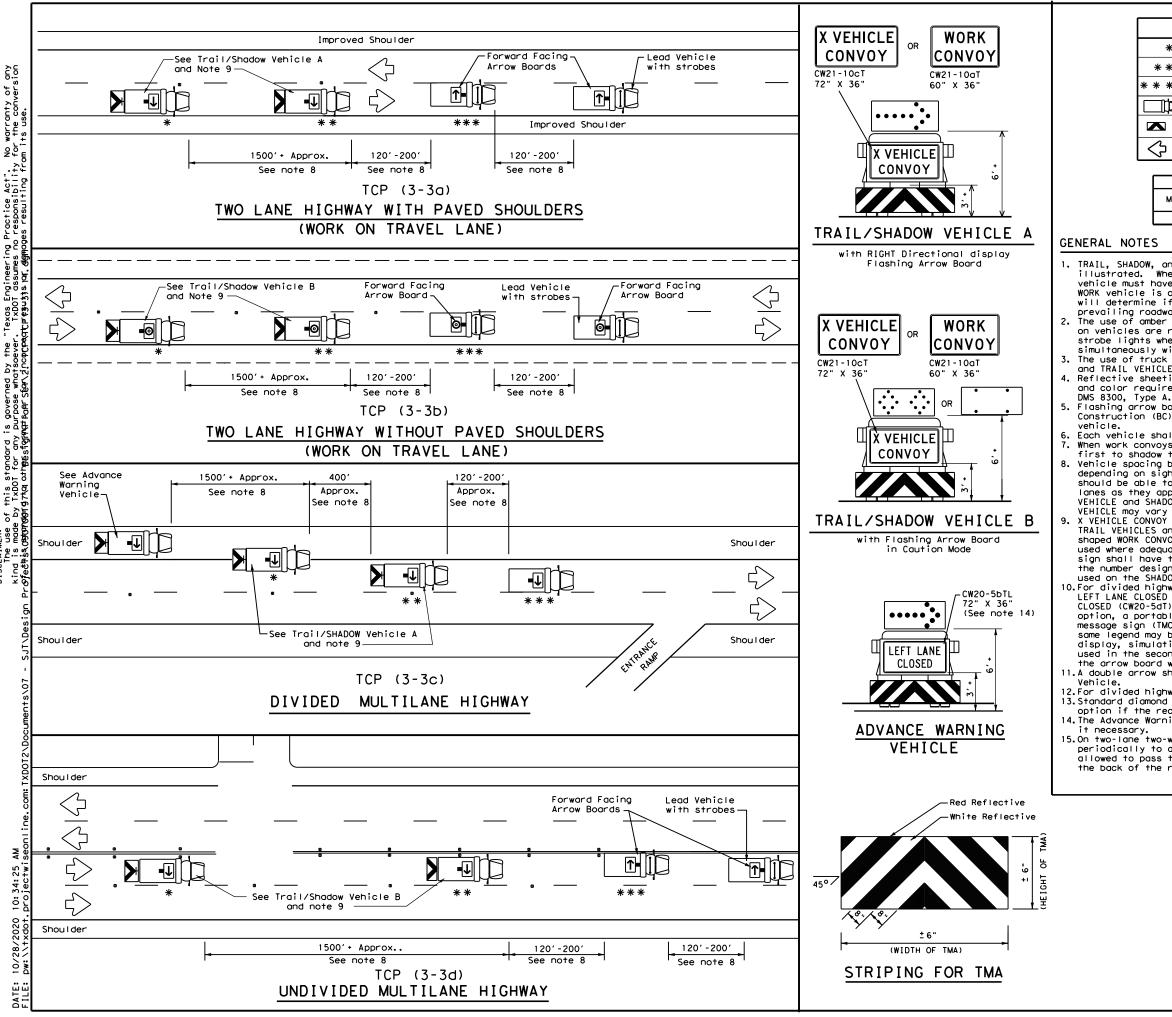
When work convoys must change lanes, the TRAIL VEHICLE should change lanes first to

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

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

-Red Reflective -White Reflective	Texas Depar	tment of Trans	portation	Traffic Operations Division Standard	
± 6" HEIGHT OF TMA)	TRAFFIC CONTROL PLAN MOBILE OPERATIONS UNDIVIDED HIGHWAYS				
		TCP (3	-1)-1	3	
			1 1		
	FILE: †cp3-1.dgn	DN: TxDO	T CK:TxDOT DW:	TxDOT CK: TxDOT	
(MA)	FILE: tcp3-1.dgn © TxDOT December 19	dn: TxDO		TxDOT CK:TxDOT h1Ghway	
	© TxDOT December 19 REVISIONS	dn: TxDO	ст јов		
FOR TMA	CTxDOT December 19	DN: TXDO 35 CONT SEG	ст јов	HIGHWAY	



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LEGEND								
*	Trail Vehicle							
* *	Shadow Vehicle	ARROW BOARD DISPLAY						
* * *	Work Vehicle	₽	RIGHT Directional					
臣	Heavy Work Vehicle	F	LEFT Directional					
	Truck Mounted Attenuator (TMA)	₽	Double Arrow					
\diamondsuit	Traffic Flow	9	CAUTION (Alternating Diamond or 4 Corner Flash)					

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

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 amber beacons or strobe lights. The use of truck mounted attenuators (TMA) on the SHADOW VEHICLE, ADVANCE WARNING

and TRAIL VEHICLE are required. 4. 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

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 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 (CW21-10DT) 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. 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

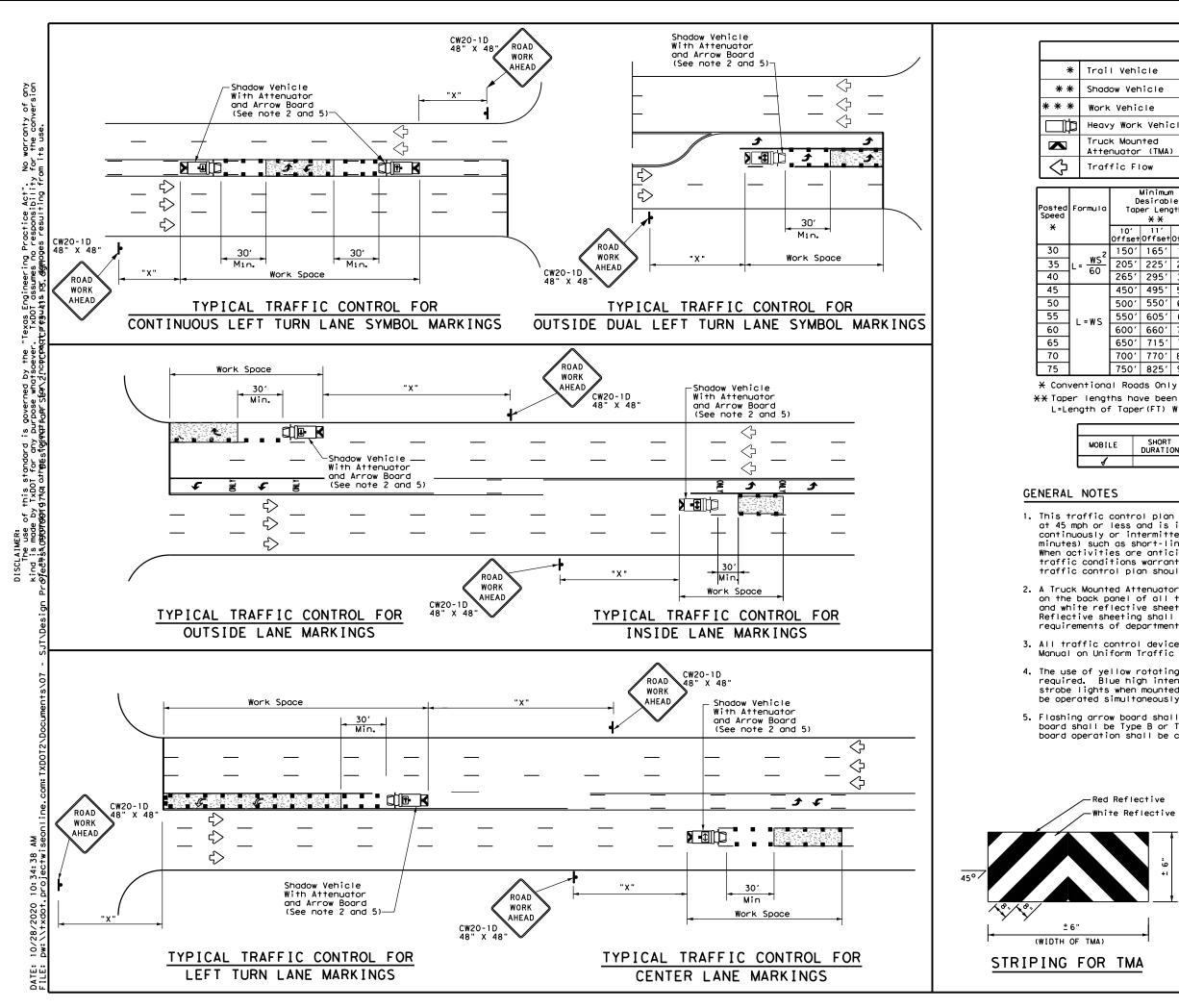
option, a portable changeable message sign (PCMS) or truck mounted changeable message sign (TMCMS) with a minimum character height of 12", and displaying the same legend may be substituted for these signs. An appropriate directional arrow display, simulating the size and legibility of the flashing arrow board may be used in the second phase of the PCMS/TMCMS message. When this is done, 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

15.0n 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.

✓ Texas Department of the second	of Transportation	Op D	Traffic erations vivision randard	
TRAFFIC CONTROL PLAN MOBILE OPERATIONS RAISED PAVEMENT MARKER INSTALLATION/ REMOVAL TCP (3-3)-14				
	5-57-14			
FILE: tcp3-3.dgn	DN: TXDOT CK: TXDOT	DW: TxDO	Г ск: TxDOT	
©TxDOT September 1987	CONT SECT JOB		HIGHWAY	
REVISIONS 2-94 4-98	0907 00 197, E	тс	VA	
8-95 7-13	DIST COUNTY		SHEET NO.	
1-97 7-14	SJT TOM GREEN	, ETC	23	
177				



LEGEND							
I Vehicle		ARROW BOARD DISPLAY					
low Vehicle		ARROW BOARD DISPERT					
< Vehicle	₽	RIGHT Directional					
y Work Vehicle	-1	LEFT Directional					
k Mounted enuator (TMA)	₽	Double Arrow					
fic Flow		Channelizing Devices					

	D	Minimur esirab er Leng X X	le	Spacir Channe		Minimum Sign Spacing "x"	Suggested Longitudinal Buffer Space
ļ	10' Offset	11' Offset	12' Offset	On a Taper	On a Tangent	Distance	"В"
T	150'	165′	180'	30'	60′	120'	90'
Γ	205′	225'	245′	35′	70′	160'	120'
Γ	265′	295′	320'	40′	80′	240′	155'
T	450 <i>'</i>	495′	540'	45′	90 <i>'</i>	320′	195'
ſ	500'	550'	600ʻ	50 <i>'</i>	100'	400′	240'
[550'	605 <i>'</i>	660'	55 <i>'</i>	110′	500 <i>'</i>	295′
Γ	600′	660'	720′	60′	120'	600 <i>'</i>	350'
[650'	715′	780'	65 <i>'</i>	130′	700'	410′
[700′	770′	840′	70'	140'	800'	475′
ſ	750′	825′	900'	75′	150′	900′	540'

XX Taper lengths have been rounded off.

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

TYPICAL USAGE							
LE	SHORT DURATION		INTERMEDIATE TERM STATIONARY	LONG TERM STATIONARY			
,							

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 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.

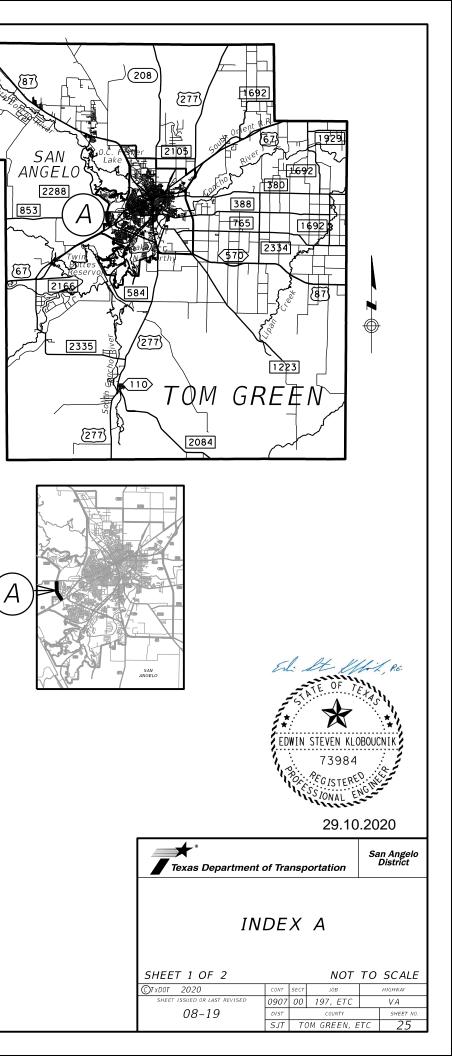
5. Flashing arrow board shall be used on Shadow Vehicle. Flashing arrow board operation shall be controlled from inside the truck.

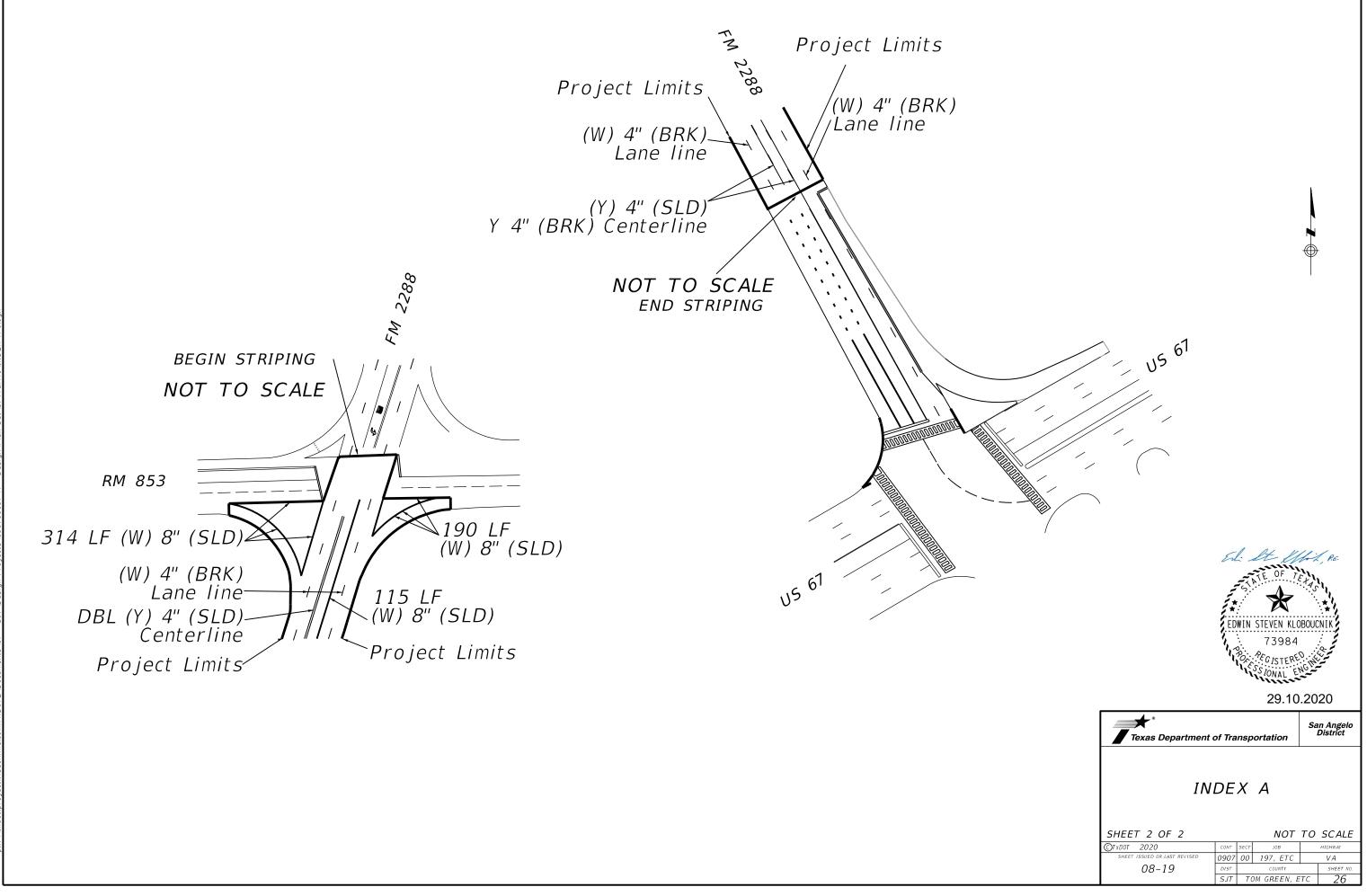
Reflective te Reflective	Texas Department o	of Transp	ortation	Traffic Operations Division Standard				
TMA	TRAFFIC C	ONTF	ROL PI	AN				
	MOBILE OP	ERAT	IONS	FOR				
+ F	ISOLATED WORK AREAS							
	UNDIVIDE	DHI	GHWA	YS				
	ТСІ	⁻ (3-	- 4) - 1	3				
	FILE: tcp3-4.dgn	dn: TxDOT	ск: TxDOT dw:	TxDOT CK: TxDOT				
	CTxDOT July, 2013	CONT SECT	JOB	HIGHWAY				
ТМА	REVISIONS	0907 00	197, ETC	VA				
		DIST	COUNTY	SHEET NO.				
		SJT TO	W GREEN, I	etc 24				
	178							

COUNTY: TOM GREEN HIGHWAY: FM 2288 INDEX: A LIMITS OF PROJECT: RM 853 TO 280' NORTH OF US 67 LENGTH: 1.514 MILES

PAVEMENT MARKING QUANTITIES (THIS SHEET ONLY)							
666-6036	666-6048	666-6138	666-6147	666-6230	666-6300	666-6303	666-6312
REFL PAV MRK TY I (W) 8"(SLD) (100MIL)	REFL PAV MRK TY I (W) 24"(SLD) (100MIL)	REFL PAV MRK TY I (Y) 8"(SLD) (100MIL)	REFL PAV MRK TY I (Y) 24"(SLD) (100MIL)	PAVEMENT SEALER 24"	RE PM W/RET REQ TY I (W)4"(BRK) (100 MIL)	RE PM W/RET REQ TY I (W)4"(SLD) (100 MIL)	RE PM W/RET REQ TY I (Y)4"(BRK) (100 MIL)
LF	LF	LF	LF	LF	LF	LF	LF
704					4,000		3,450
666-6315	666-6342	666-6344	666-6345	668-6089	677-6007	6056-6002	
RE PM W/RET REQ TY I (Y)4"(SLD) (100 MIL)	REF PROF PAV MRK TY I (W) 4" (SLD) (100 MIL)	REF PROF PAV MRK TY I (Y) 4" (BRK) (100 MIL)	REF PROF PAV MRK TY I (Y) 4" (SLD) (100 MIL)	PREFAB PAV MRK TY C (W)(RR XING)	ELIM EXT PAV MRK & MRKS (24")	PREFORMED CENTERLINE RUMBLE STRIP	
LF	LF	LF	LF	EA	LF	LF	
13,820		120	1,290				

NOTES: 1. 8" WHITE SOLID IS FOR ISLANDS AND TURN LANES. 2. 8" WHITE DOT IS FOR TURN LANES. 3. NO PROFILE MARKINGS ARE FROM CITY LIMIT SIGN TO US 67.





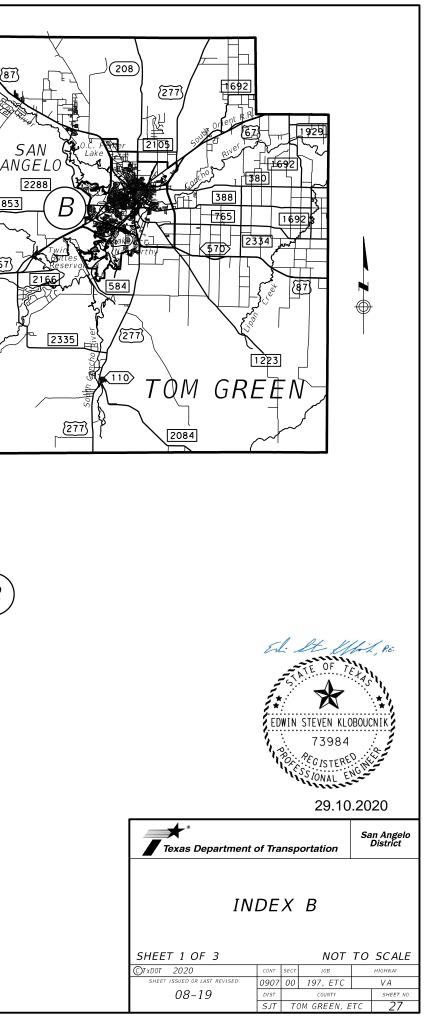
COUNTY: TOM GREEN HIGHWAY: SL 306 FRONTAGE ROADS INDEX: B LIMITS OF PROJECT: 300' EAST OF RAILROAD SOUTH SIDE TO 800' EAST OF RAILROAD NORTH SIDE LENGTH: 2.493 MILES

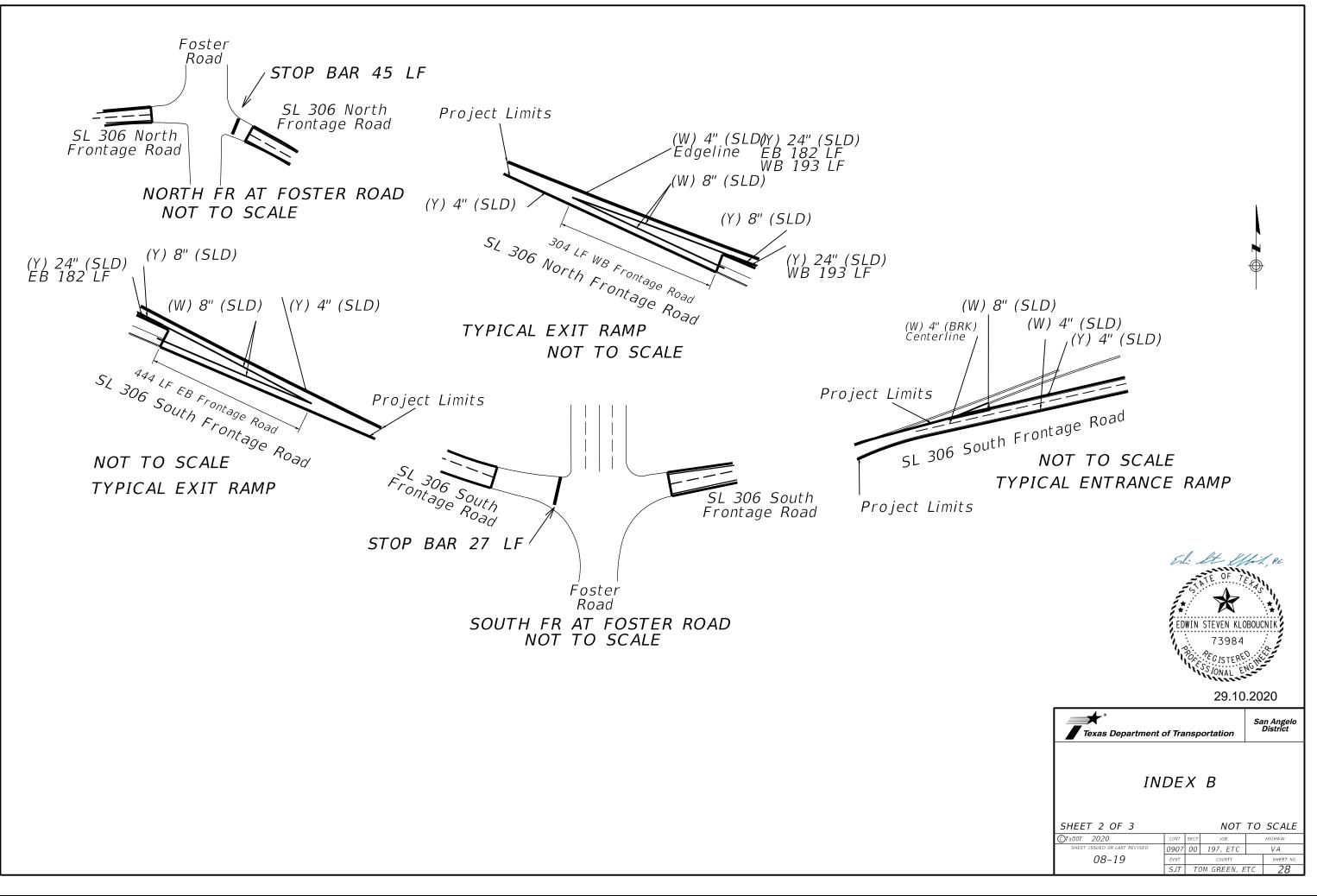
		PA	AVEMENT MARKING QU.	ANTITIES (THIS SHEET	T ONLY)		
36	666-6048	666-6138	666-6147	666-6230	666-6300	666-6303	666-6312
MRK (SLD) _)	REFL PAV MRK TY I (W) 24"(SLD) (100MIL)	REFL PAV MRK TY I (Y) 8"(SLD) (100MIL)	REFL PAV MRK TY I (Y) 24"(SLD) (100MIL)	PAVEMENT SEALER 24"	RE PM W/RET REQ TY I (W)4"(BRK) (100 MIL)	RE PM W/RET REQ TY I (W)4"(SLD) (100 MIL)	RE PM W/RET REQ TY I (Y)4"(BRK) (100 MIL)
	LF	LF	LF	LF	LF	LF	LF
	72	887	375		2,830	5,160	
5	666-6342	666-6344	666-6345	668-6089	677-6007	6056-6002	
T REQ SLD) L)	REF PROF PAV MRK TY I (W) 4" (SLD) (100 MIL)	REF PROF PAV MRK TY I (Y) 4" (BRK) (100 MIL)		PREFAB PAV MRK TY C (W)(RR XING)	ELIM EXT PAV MRK & MRKS (24")	PREFORMED CENTERLINE RUMBLE STRIP	
	LF	LF	LF	EA	LF	LF	
					72		

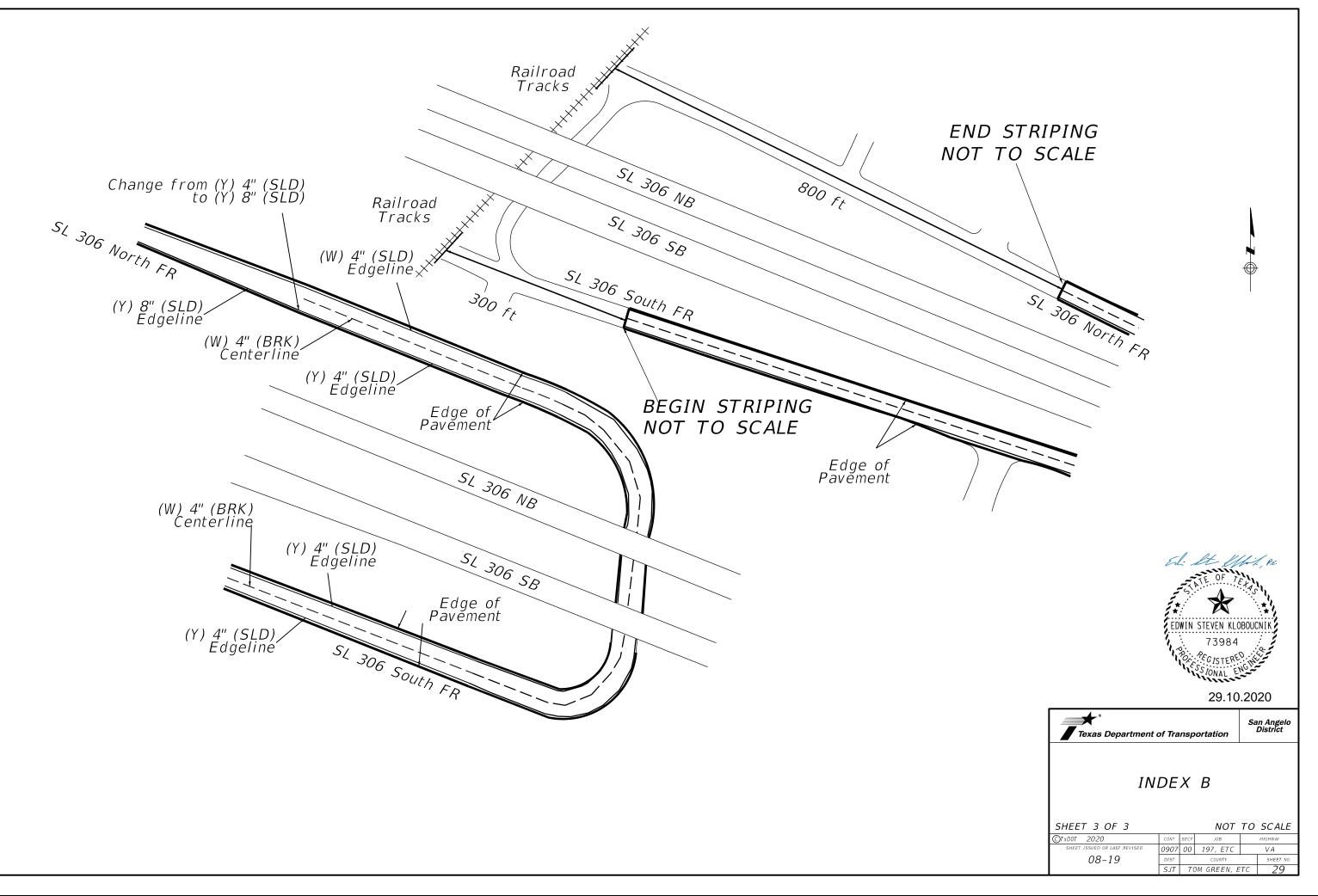
NOTES: 1. 24" WHITE STRIPE IS FOR STOP BARS. 2. 8" WHITE SOLID IS FOR ENTRANCE & EXIT RAMP GORES. 3. 8" YELLOW SOLID IS FOR FRONTAGE RD RAMP GORES. 4. 24" YELLOW SOLID IS FOR FRONTAGE RD RAMP GORES. 5. NO PROFILE MARKINGS.

FOR CONTRACTOR INFORMATION ONLY							
STOP BARS		SEALEF	R				
LENGTH EA	LOCATION	LENGTH EA	LOCATION				
27'	FOSTER RD						
45'	FOSTER RD						









AM 10:35:47 iertwised 10/28/2020 DATE:

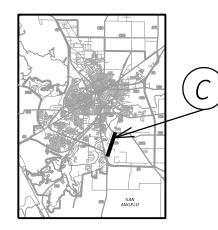
COUNTY: TOM GREEN HIGHWAY: SL 378 INDEX: C LIMITS OF PROJECT: FM 1233 TO 50' NORTH OF SIGNAL LENGTH: 1.872 MILES

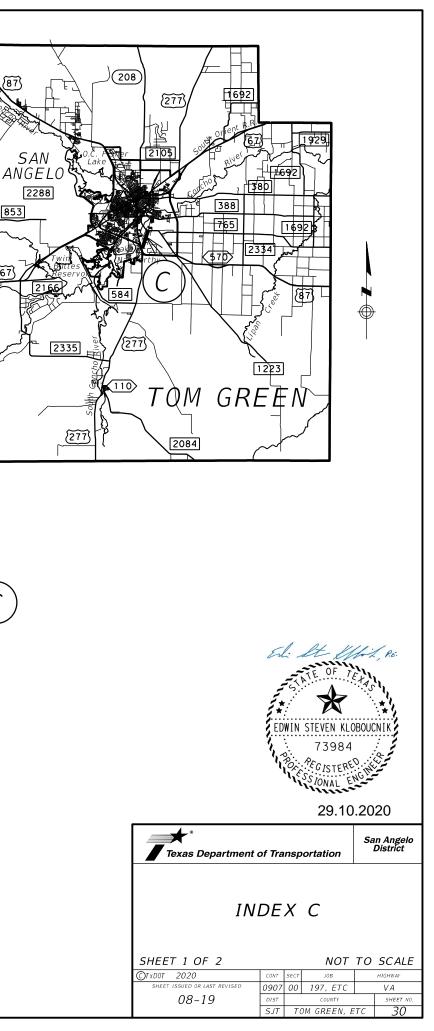
(163)

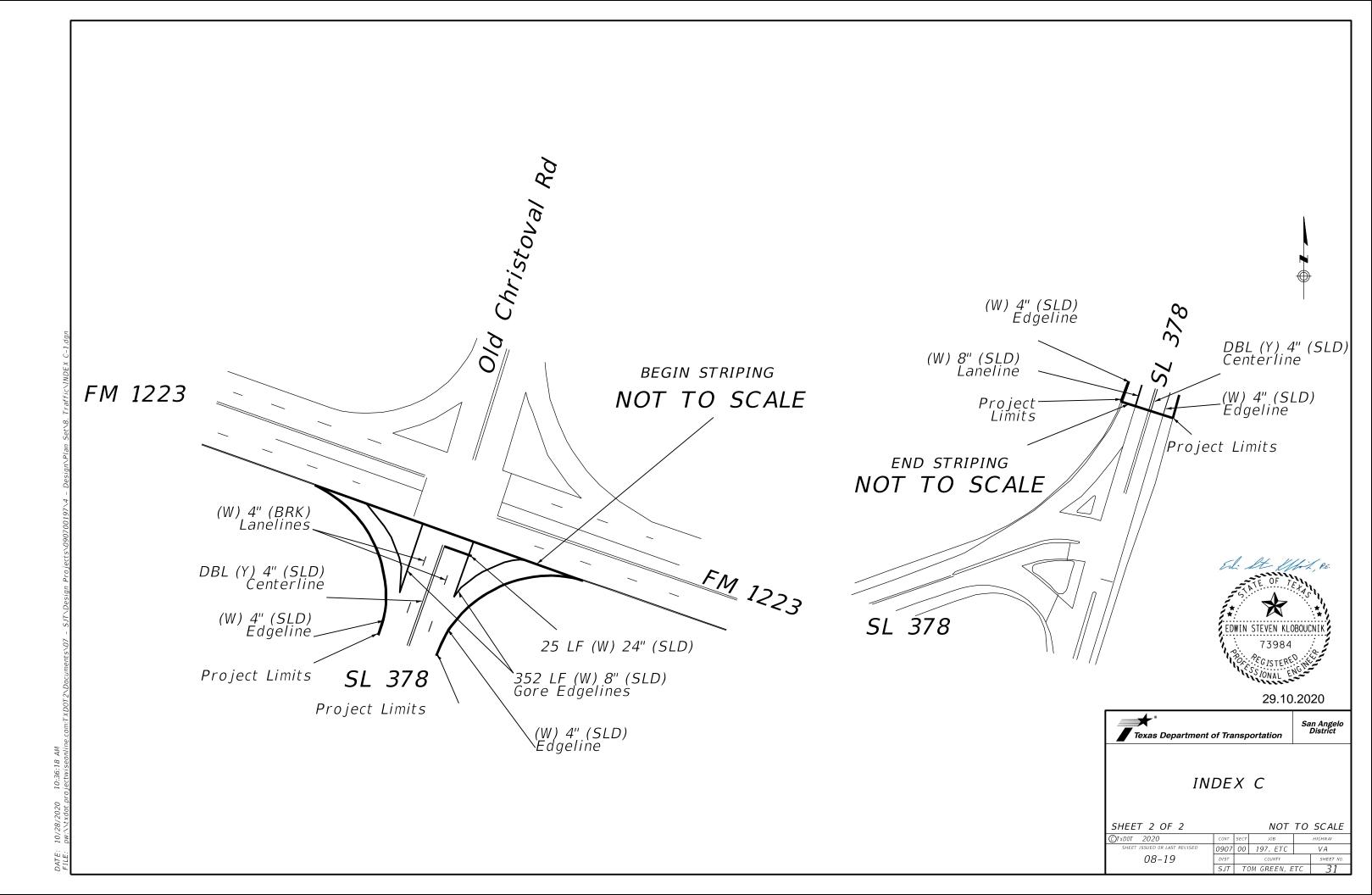
		PA	AVEMENT MARKING QU	ANTITIES (THIS SHEET	F ONLY)		
666-6036	666-6048	666-6138	666-6147	666-6230	666-6300	666-6303	666-6312
REFL PAV MRK TY I (W) 8"(SLD) (100MIL)	REFL PAV MRK TY I (W) 24"(SLD) (100MIL)	REFL PAV MRK TY I (Y) 8"(SLD) (100MIL)	REFL PAV MRK TY I (Y) 24"(SLD) (100MIL)	PAVEMENT SEALER 24"	RE PM W/RET REQ TY I (W)4"(BRK) (100 MIL)	RE PM W/RET REQ TY I (W)4"(SLD) (100 MIL)	RE PM W/RET REQ TY I (Y)4"(BRK) (100 MIL)
LF	LF	LF	LF	LF	LF	LF	LF
576	25				130		
666-6315	666-6342	666-6344	666-6345	668-6089	677-6007	6056-6002	
E PM W/RET REQ TY I (Y)4"(SLD) (100 MIL)	REF PROF PAV MRK TY I (W) 4" (SLD) (100 MIL)	REF PROF PAV MRK TY I (Y) 4" (BRK) (100 MIL)	REF PROF PAV MRK TY I (Y) 4" (SLD) (100 MIL)	PREFAB PAV MRK TY C (W)(RR XING)	ELIM EXT PAV MRK & MRKS (24")	PREFORMED CENTERLINE RUMBLE STRIP	
LF	LF	LF	LF	EA	LF	LF	
	18,850	2,120	4,900			800	

NOTES: 1. 24" WHITE STRIPE IS FOR STOP BAR. 2. 8" WHITE SOLID IF FOR ISLANDS AND ONE TURN LANE.

FOR CONTRACTOR INFORMATION ONLY							
STOP	BARS	SEALEF	R				
LENGTH EA	LOCATION	LENGTH EA	LOCATION				
25'	FM 2133						







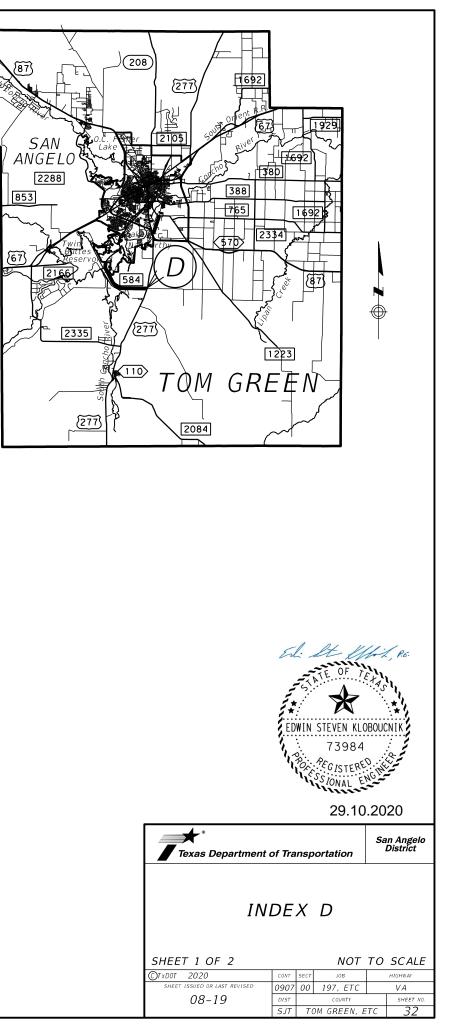
COUNTY: TOM GREEN HIGHWAY: RM 584 INDEX: D LIMITS OF PROJECT: 5.27 MILES SOUTH OF SL 306 TO US 277 LENGTH: 5.629 MILES

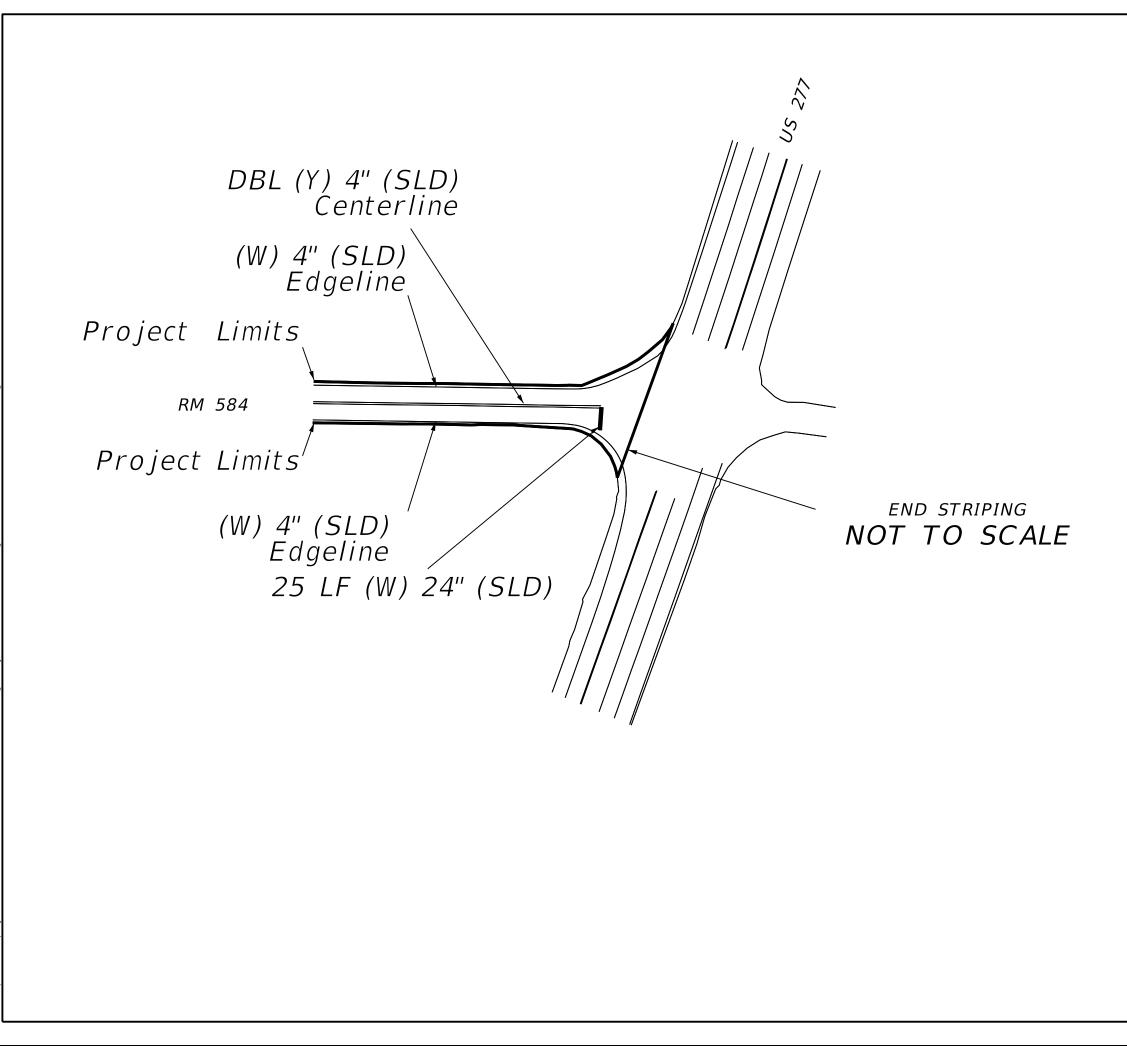
163

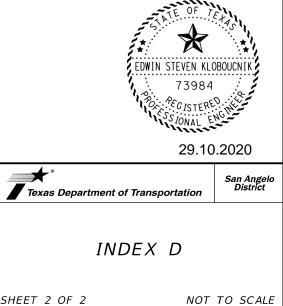
		PA	AVEMENT MARKING QU,	ANTITIES (THIS SHEET	F ONLY)		
666-6036	666-6048	666-6138	666-6147	666-6230	666-6300	666-6303	666-6312
REFL PAV MRK TY I (W) 8"(SLD) (100MIL)	REFL PAV MRK TY I (W) 24"(SLD) (100MIL)	REFL PAV MRK TY I (Y) 8"(SLD) (100MIL)	REFL PAV MRK TY I (Y) 24"(SLD) (100MIL)	PAVEMENT SEALER 24"	RE PM W/RET REQ TY I (W)4"(BRK) (100 MIL)	RE PM W/RET REQ TY I (W)4"(SLD) (100 MIL)	RE PM W/RET REQ TY I (Y)4"(BRK) (100 MIL)
LF	LF	LF	LF	LF	LF	LF	LF
	64			39			
					· ·	·	
666-6315	666-6342	666-6344	666-6345	668-6089	677-6007	6056-6002	
	REF PROF PAV MRK	REF PROF PAV MRK		PREFAB PAV MRK TY C (W)(RR XING)	ELIM EXT PAV MRK & MRKS	PREFORMED CENTERLINE RUMBLE	
RE PM W/RET REQ TY I (Y)4"(SLD) (100 MIL)	TY I (W) 4" (SLD) (100 MIL)	MIL)	(100 MIL)		(24")	STRIP	
TY I (Y)4"(SLD)				EA			

NOTES: 1. 24" WHITE STRIPE IS FOR STOP BARS.

FOR CONTRACTOR INFORMATION ONLY							
STOP	STOP BARS SEALER						
LENGTH EA LOCATION		LENGTH EA	LOCATION				
25'	US 277	15'	LINE RD				
15'	LINE RD	24'	KNICKERBOCKER RD				
24'	KNICKERBOCKER RD						







SHEET 2 OF 2 NOT TO SCALE							
©TXDOT 2020	CONT	SECT	JOB		HIGHWAY		
SHEET ISSUED OR LAST REVISED	0907	00	197, ETC		VA		
08-19	DIST		COUNTY		SHEET NO.		
	SJT	T	OM GREEN, E	TC	33		

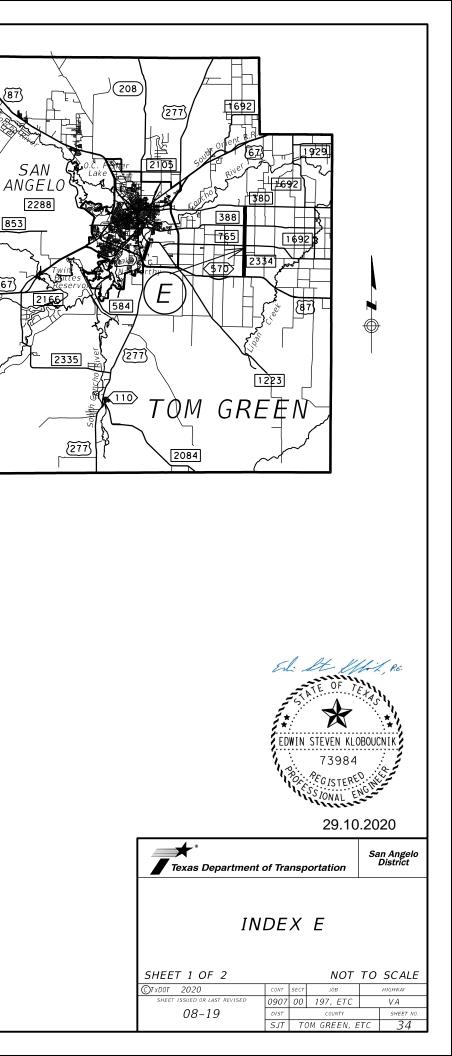
COUNTY: TOM GREEN HIGHWAY: FM 2334 INDEX: E LIMITS OF PROJECT: FM 380 TO 160' NORTH OF US 87 LENGTH: 7.059 MILES

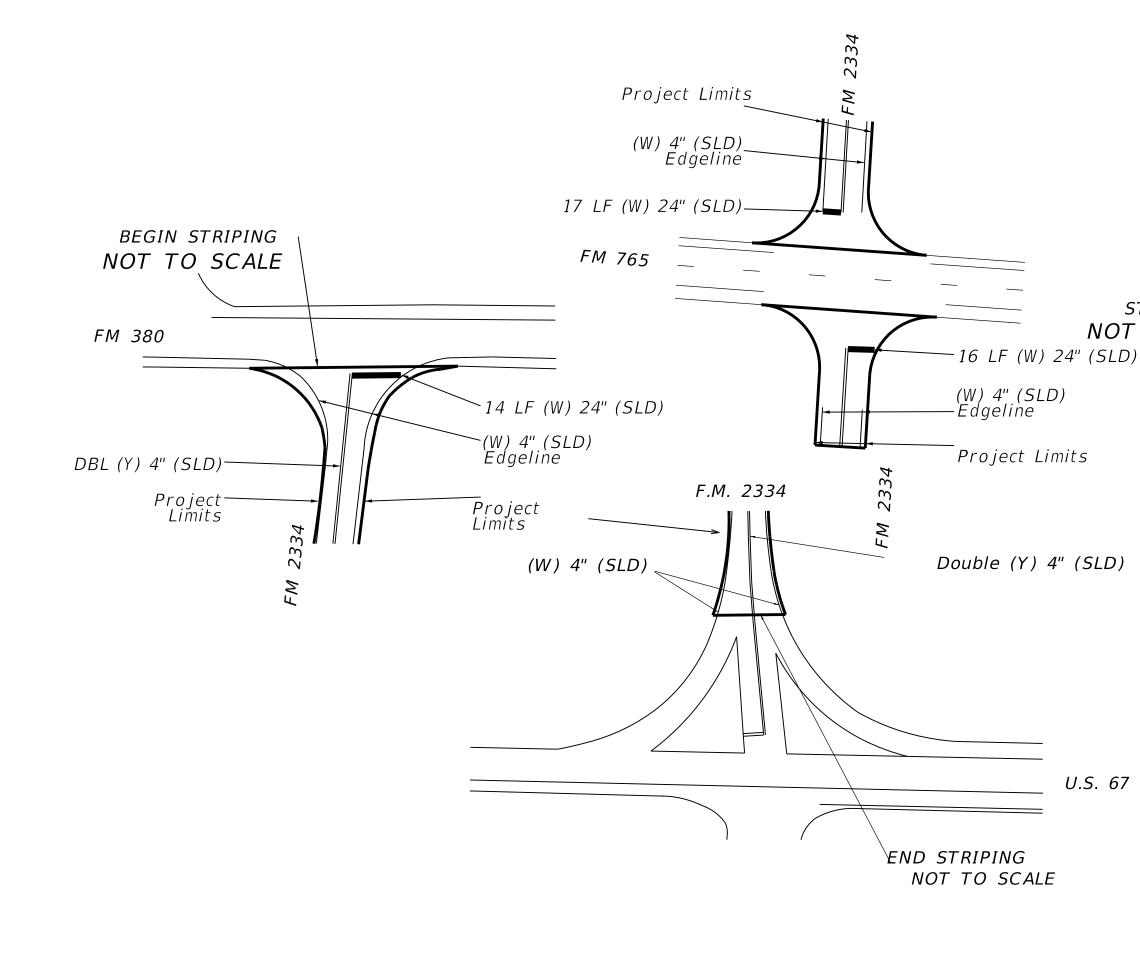
(163)

		PA	VEMENT MARKING QU.	ANTITIES (THIS SHEET	T ONLY)		
666-6036	666-6048	666-6138	666-6147	666-6230	666-6300	666-6303	666-6312
REFL PAV MRK TY I (W) 8"(SLD) (100MIL)	REFL PAV MRK TY I (W) 24"(SLD) (100MIL)	REFL PAV MRK TY I (Y) 8"(SLD) (100MIL)	REFL PAV MRK TY I (Y) 24"(SLD) (100MIL)	PAVEMENT SEALER 24"	RE PM W/RET REQ TY I (W)4"(BRK) (100 MIL)	RE PM W/RET REQ TY I (W)4"(SLD) (100 MIL)	RE PM W/RET REQ TY I (Y)4"(BRK) (100 MIL)
LF	LF	LF	LF	LF	LF	LF	LF
	102					2,750	170
666-6315	666-6342	666-6344	666-6345	668-6089	677-6007	6056-6002	
RE PM W/RET REQ TY I (Y)4"(SLD) (100 MIL)	REF PROF PAV MRK TY I (W) 4" (SLD) (100 MIL)	REF PROF PAV MRK TY I (Y) 4" (BRK) (100 MIL)	REF PROF PAV MRK TY I (Y) 4" (SLD) (100 MIL)	PREFAB PAV MRK TY C (W)(RR XING)	ELIM EXT PAV MRK & MRKS (24")	PREFORMED CENTERLINE RUMBLE STRIP	
LF	LF	LF	LF	EA	LF	LF	
1,340	72,000	8,710	3,300			4,350	

NOTES: 1. 24" WHITE STRIPE IS FOR STOP BARS. 2. NO PROFILE MARKINGS FROM 45 MPH SIGN TO FM 380 IN VERIBEST.

FOR CONTRACTOR INFORMATION ONLY										
STOP	° BARS	SEALEF								
LENGTH EA	LOCATION	LENGTH EA	LOCATION							
14'	FM 380									
18',19'	FM 388									
16',17'	FM 765									
8'	JARRAT RD									
10'	E PENNY LN									





STRIPING BREAK NOT TO SCALE



29.10.2020									
Texas Department of Transportation									
INDEX E									
©TxDOT 2020	CONT	SECT	JOB		HIGHWAY				
SHEET ISSUED OR LAST REVISED	0907	00	197, ETC		VA				
08-19	DIST		COUNTY	SHEET NO.					
	SJT TOM GREEN, ETC 35								

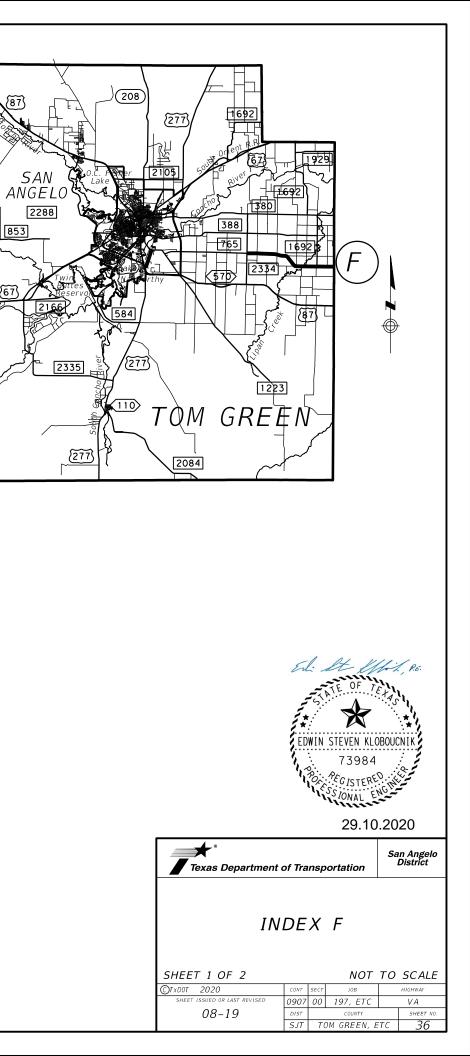
COUNTY: TOM GREEN HIGHWAY: FM 765 INDEX: F LIMITS OF PROJECT: FM 2334 TO CONCHO COUNTY LINE LENGTH: 9.245 MILES

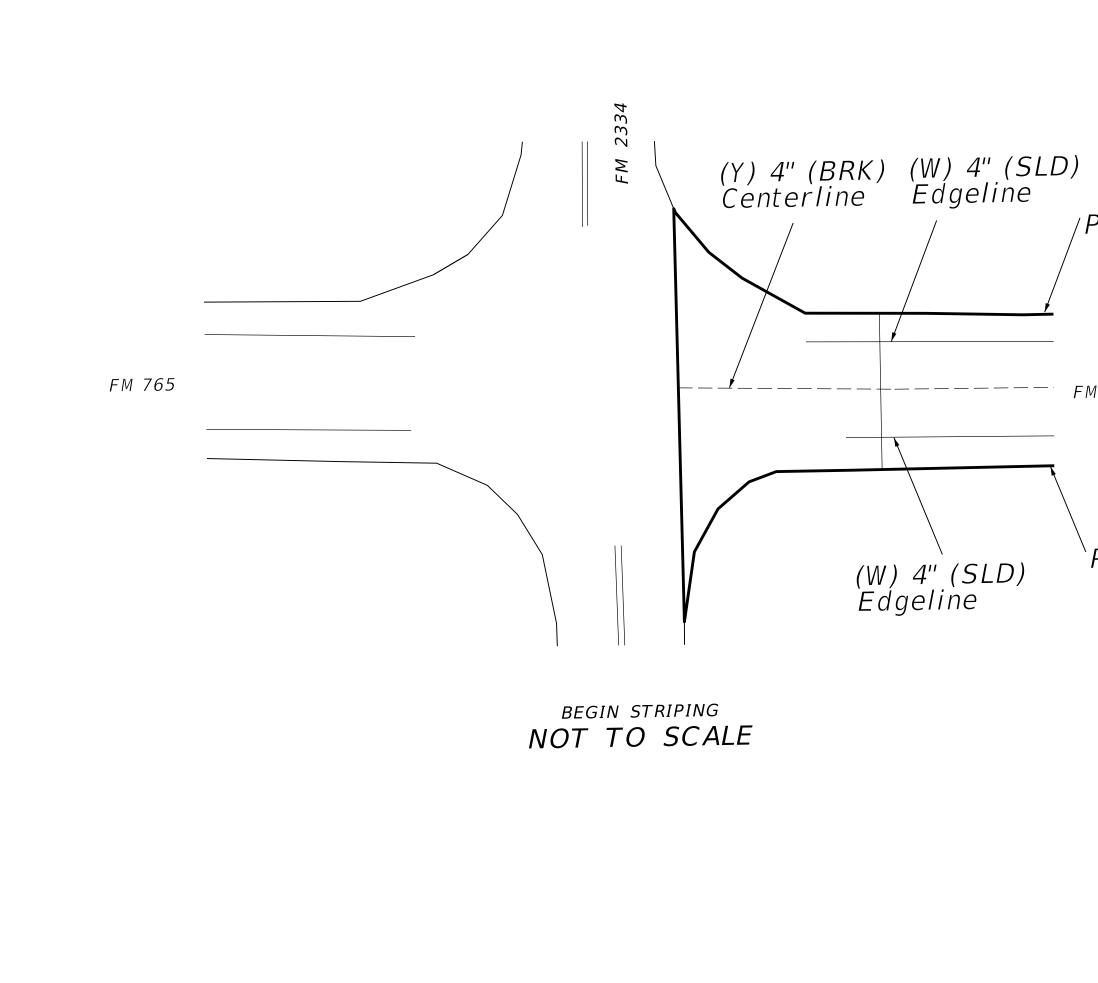
		PA	VEMENT MARKING QUA	ANTITIES (THIS SHEET	T ONLY)		
666-6036	666-6048	666-6138	666-6147	666-6230	666-6300	666-6303	666-6312
REFL PAV MRK TY I (W) 8"(SLD) (100MIL)	REFL PAV MRK TY I (W) 24"(SLD) (100MIL)	REFL PAV MRK TY I (Y) 8"(SLD) (100MIL)	REFL PAV MRK TY I (Y) 24"(SLD) (100MIL)	PAVEMENT SEALER 24"	RE PM W/RET REQ TY I (W)4"(BRK) (100 MIL)	RE PM W/RET REQ TY I (W)4"(SLD) (100 MIL)	RE PM W/RET REQ TY I (Y)4"(BRK) (100 MIL)
LF	LF	LF	LF	LF	LF	LF	LF
	123						
666-6315	666-6342	666-6344	666-6345	668-6089	677-6007	6056-6002	
RE PM W/RET REQ TY I (Y)4"(SLD) (100 MIL)	REF PROF PAV MRK TY I (W) 4" (SLD) (100 MIL)	REF PROF PAV MRK TY I (Y) 4" (BRK) (100 MIL)	REF PROF PAV MRK TY I (Y) 4" (SLD) (100 MIL)	PREFAB PAV MRK TY C (W)(RR XING)	ELIM EXT PAV MRK & MRKS (24")	PREFORMED CENTERLINE RUMBLE STRIP	
LF	LF	LF	LF	EA	LF	LF	
	98,000	11,740	16,000			4,540	

(163)

NOTES: 1. 24" WHITE STRIPE IS FOR STOP BARS.

FOR	FOR CONTRACTOR INFORMATION ONLY								
STOP BARS STOP BARS									
LENGTH EA	LOCATION	LENGTH EA	LOCATION						
10'	HOLESCHER RD	10'	SCHRIEVER RD						
10'	1ST RD	10'	5TH ST						
10'	JARRAT RD	15'	POWELL LN						
10'	3RD RD	17'	FM 1692						
10'	WHITEFIELD RD	12'	PHINNEY RD						
9'	GRAY RD								





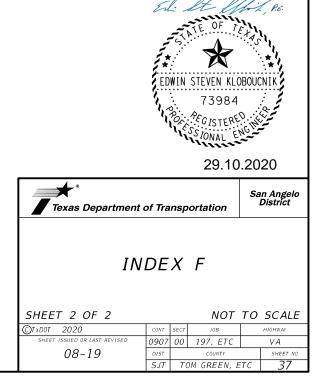
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10/28/2020

/Project Limits

FM 765

Project Limits



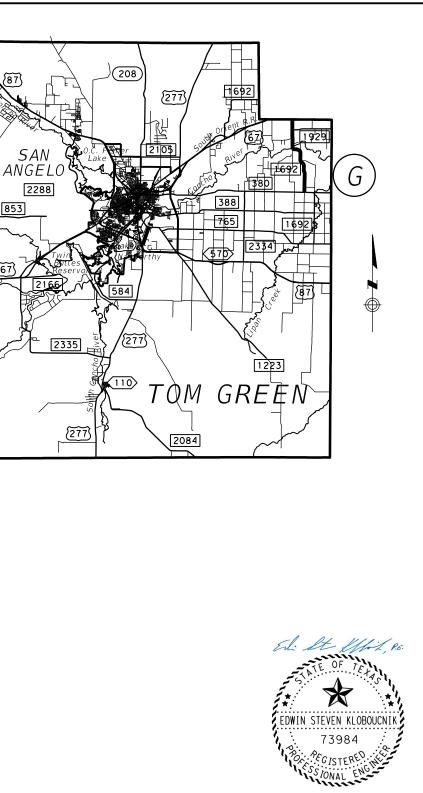
COUNTY: TOM GREEN HIGHWAY: FM 1692 INDEX: G LIMITS OF PROJECT: RUNNELS COUNTY LINE TO FM 380 LENGTH: 7.990 MILES

(163)

		PA	AVEMENT MARKING QU	ANTITIES (THIS SHEE	T ONLY)		
666-6036	666-6048	666-6138	666-6147	666-6230	666-6300	666-6303	666-6312
REFL PAV MRK TY I (W) 8"(SLD) (100MIL)	REFL PAV MRK TY I (W) 24"(SLD) (100MIL)	REFL PAV MRK TY I (Y) 8"(SLD) (100MIL)	REFL PAV MRK TY I (Y) 24"(SLD) (100MIL)	PAVEMENT SEALER 24"	RE PM W/RET REQ TY I (W)4"(BRK) (100 MIL)	RE PM W/RET REQ TY I (W)4"(SLD) (100 MIL)	RE PM W/RET REQ TY I (Y)4"(BRK) (100 MIL)
LF	LF	LF	LF	LF	LF	LF	LF
	164						
666-6315	666-6342	666-6344	666-6345	668-6089	677-6007	6056-6002	
RE PM W/RET REQ TY I (Y)4"(SLD) (100 MIL)	REF PROF PAV MRK TY I (W) 4" (SLD) (100 MIL)	REF PROF PAV MRK TY I (Y) 4" (BRK) (100 MIL)	REF PROF PAV MRK TY I (Y) 4" (SLD) (100 MIL)	PREFAB PAV MRK TY C (W)(RR XING)	ELIM EXT PAV MRK & MRKS (24")	PREFORMED CENTERLINE RUMBLE STRIP	
LF	LF	LF	LF	EA	LF	LF	
	83,610	7,720	37,750			2,000	

NOTES: 1. 24" WHITE STRIPE IS FOR STOP BARS.

FOR	FOR CONTRACTOR INFORMATION ONLY								
STOP	STOP BARS STOP BARS								
LENGTH EA	LOCATION	LENGTH EA	LOCATION						
12'	FM 1929	18'	JACKSON LN						
17'	MC MILLIAN RD	1 1'	HELWIG RD						
25'	MY RD	10'	KELLERMIER RD						
19'	ARRINGTON RD	42'	FM 380						
10'	BROOM LN								

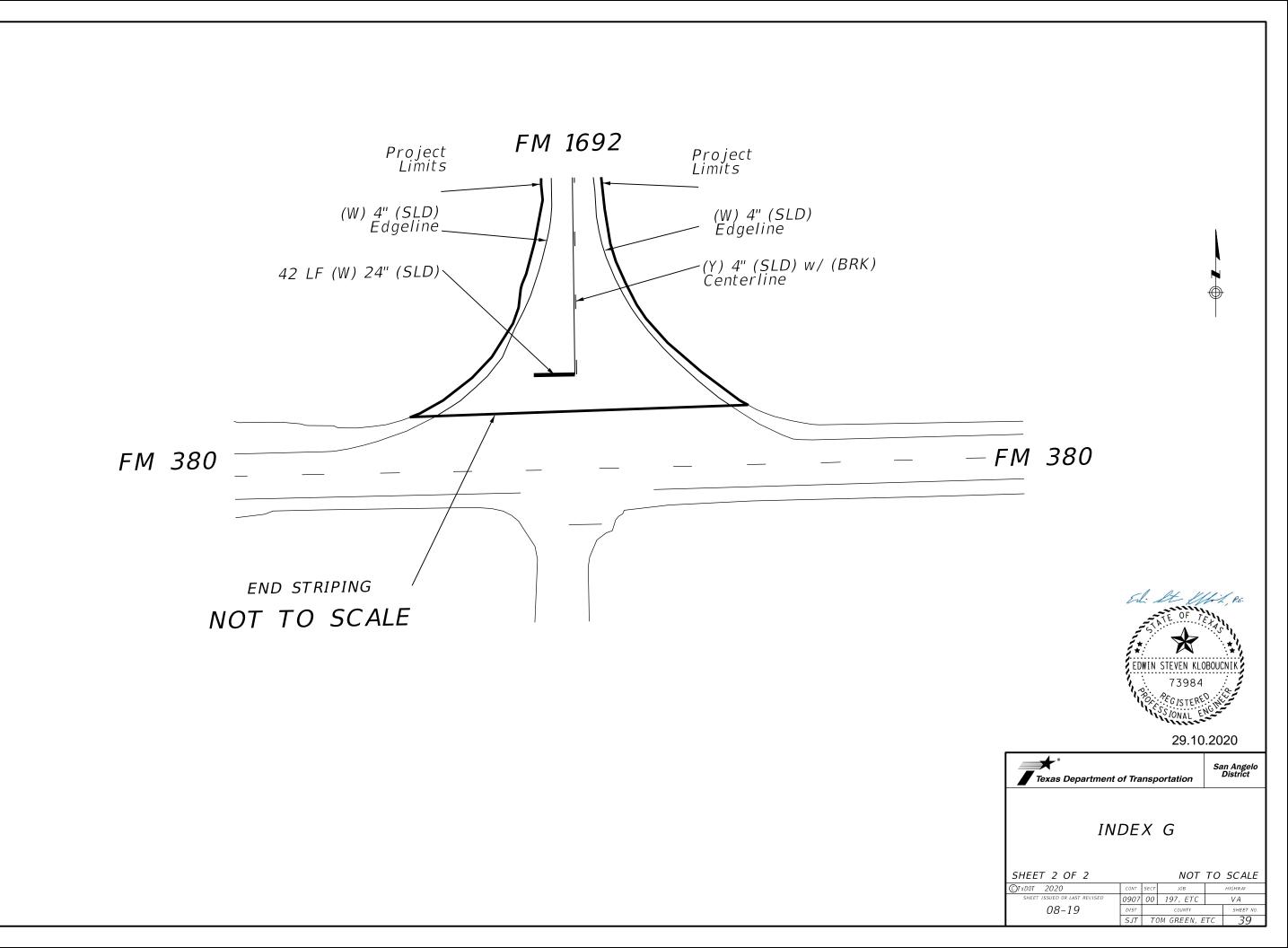


29.10.2020

Texas Department of Transportation San Angelo District INDEX G SHEET 1 OF 2 NOT TO SCALE ©TxDOT 2020 JOB 0907 00 197, ETC VA 08-19 SHEET NO. .38

SJT TOM GREEN, ETC

10:38:06 AM 10/28/2020 DATE:



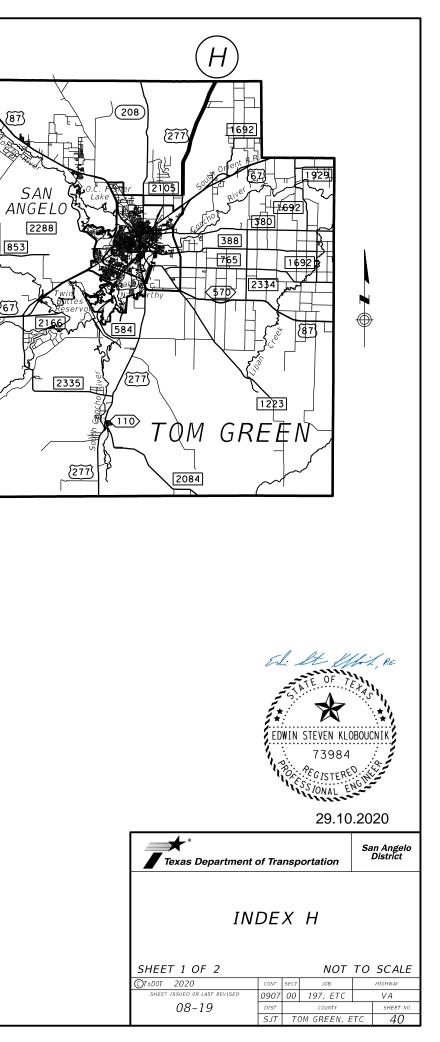
COUNTY: TOM GREEN HIGHWAY: US 277 INDEX: H LIMITS OF PROJECT: COKE COUNTY LINE TO FM 2105 LENGTH: 12.164 MILES

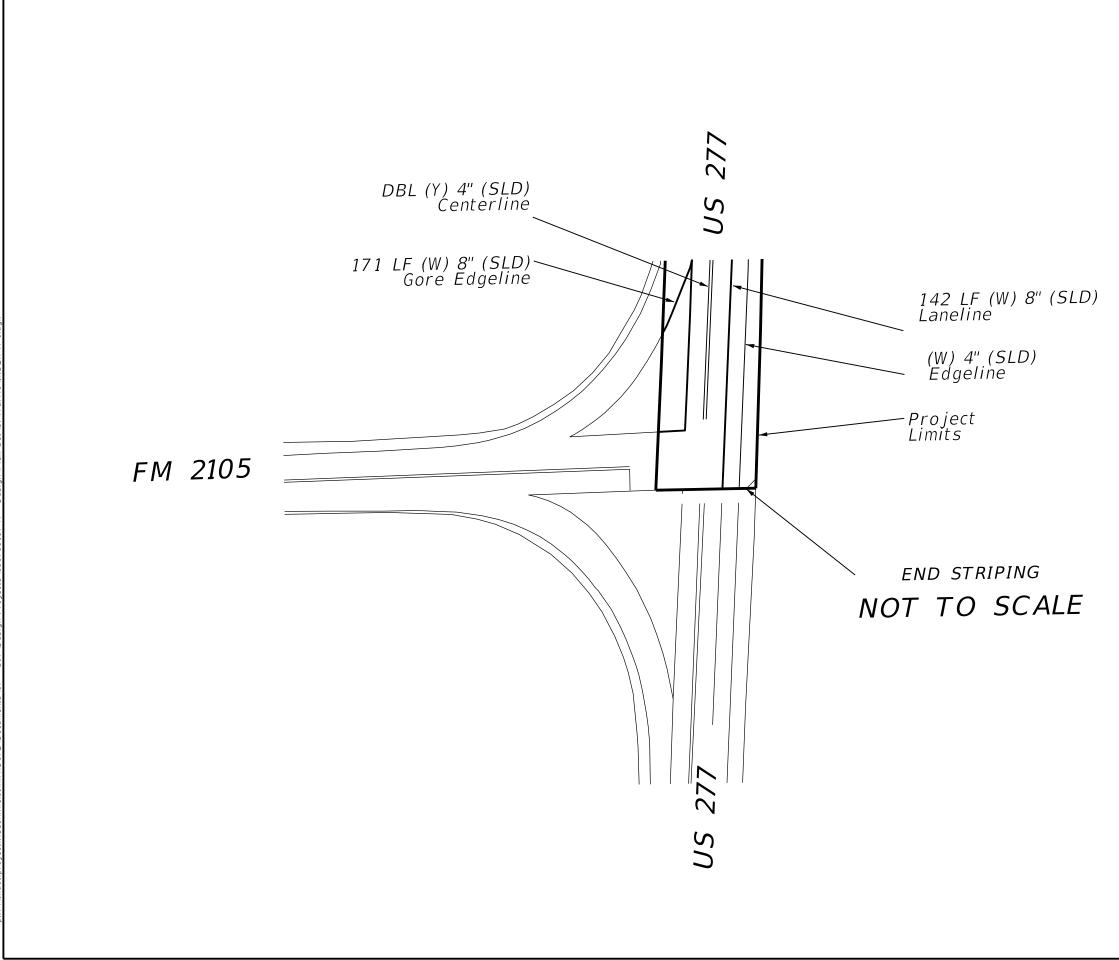
		PA	AVEMENT MARKING QU.	ANTITIES (THIS SHEE	T ONLY)		
666-6036	666-6048	666-6138	666-6147	666-6230	666-6300	666-6303	666-6312
REFL PAV MRK TY I (W) 8"(SLD) (100MIL)	REFL PAV MRK TY I (W) 24"(SLD) (100MIL)	REFL PAV MRK TY I (Y) 8"(SLD) (100MIL)	REFL PAV MRK TY I (Y) 24"(SLD) (100MIL)	PAVEMENT SEALER 24"	RE PM W/RET REQ TY I (W)4"(BRK) (100 MIL)	RE PM W/RET REQ TY I (W)4"(SLD) (100 MIL)	RE PM W/RET REQ TY I (Y)4"(BRK) (100 MIL)
LF	LF	LF	LF	LF	LF	LF	LF
505	38						
666-6315	666-6342	666-6344	666-6345	668-6089	677-6007	6056-6002	
RE PM W/RET REQ TY I (Y)4"(SLD) (100 MIL)	REF PROF PAV MRK TY I (W) 4" (SLD) (100 MIL)		REF PROF PAV MRK TY I (Y) 4" (SLD) (100 MIL)	PREFAB PAV MRK TY C (W)(RR XING)	ELIM EXT PAV MRK & MRKS (24")	PREFORMED CENTERLINE RUMBLE STRIP	
LF	LF	LF	LF	EA	LF	LF	
	127,530	14,840	38,300			3,840	

(163)

NOTES: 1. 24" WHITE STRIPE IS FOR STOP BARS. 2. 8" IS FOR LANE LINE AND ISLAND.

FOR	FOR CONTRACTOR INFORMATION ONLY								
STOP BARS SEALER									
LENGTH EA	LOCATION	LENGTH EA	LOCATION						
13'	ORIENT RD								
25'	SIERRA TR								







INDEX H

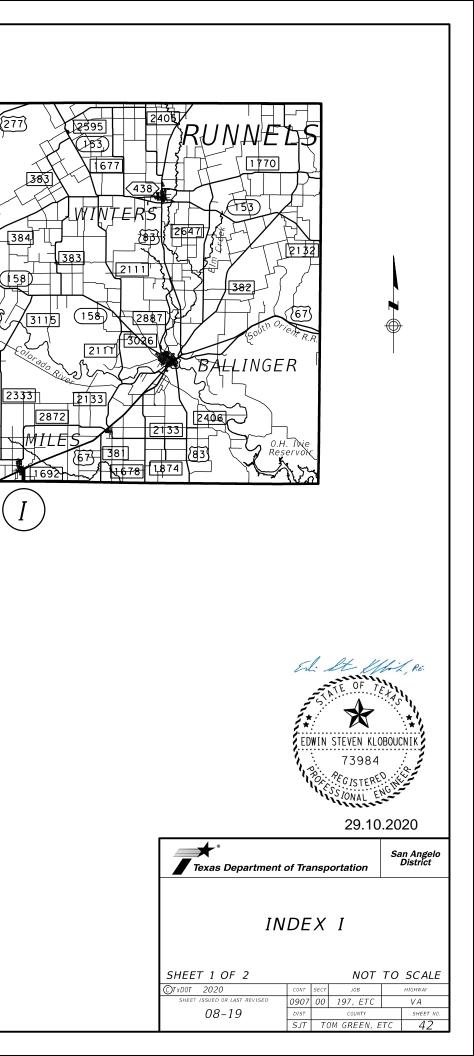
SHEET 2 OF 2			NOT	то	SCALE
©TxDOT 2020	CONT	SECT	JOB		HIGHWAY
SHEET ISSUED OR LAST REVISED	0907	00	197, ETC		VA
08-19	DIST		COUNTY		SHEET NO.
	SJT	T	OM GREEN, E	TC	41

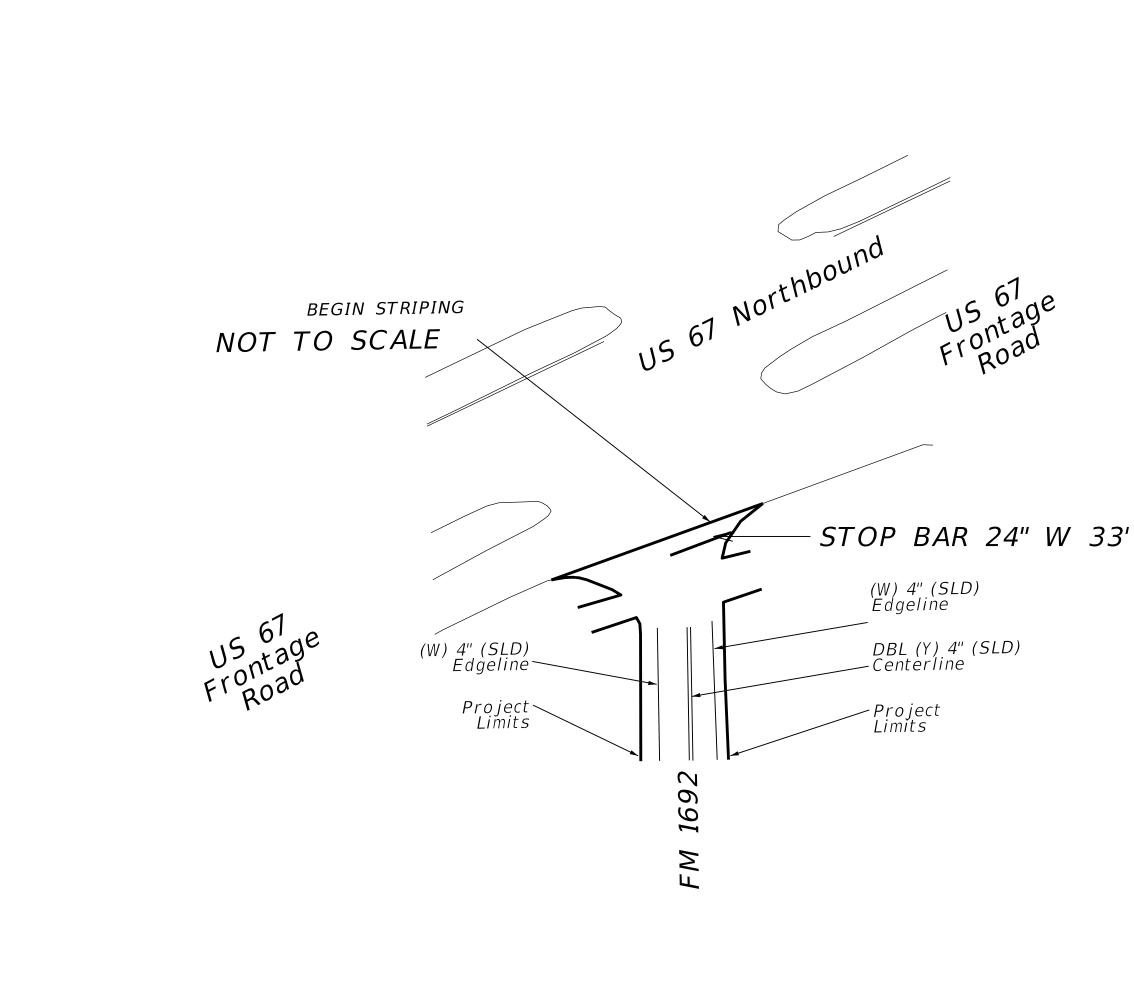
COUNTY: RUNNELS HIGHWAY: FM 1692 INDEX: I LIMITS OF PROJECT: US 67 TO TOM GREEN COUNTY LINE LENGTH: 1.076 MILES

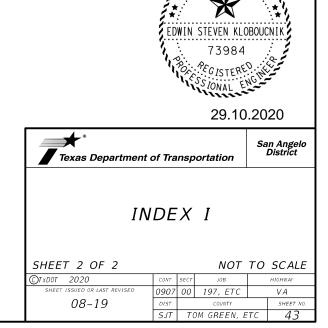
		PA	VEMENT MARKING QU.	ANTITIES (THIS SHEET	T ONLY)		
666-6036	666-6048	666-6138	666-6147	666-6230	666-6300	666-6303	666-6312
REFL PAV MRK TY I (W) 8"(SLD) (100MIL)	REFL PAV MRK TY I (W) 24"(SLD) (100MIL)	REFL PAV MRK TY I (Y) 8"(SLD) (100MIL)	REFL PAV MRK TY I (Y) 24"(SLD) (100MIL)	PAVEMENT SEALER 24"	RE PM W/RET REQ TY I (W)4"(BRK) (100 MIL)	RE PM W/RET REQ TY I (W)4"(SLD) (100 MIL)	RE PM W/RET REQ TY I (Y)4"(BRK) (100 MIL)
LF	LF	LF	LF	LF	LF	LF	LF
	47			14		6,080	1,450
					· · ·	·	
666-6315	666-6342	666-6344	666-6345	668-6089	677-6007	6056-6002	
RE PM W/RET REQ TY I (Y)4"(SLD) (100 MIL)	REF PROF PAV MRK TY I (W) 4" (SLD) (100 MIL)			PREFAB PAV MRK TY C (W)(RR XING)	ELIM EXT PAV MRK & MRKS (24")	PREFORMED CENTERLINE RUMBLE STRIP	
LF	LF	LF	LF	EA	LF	LF	
3,660	5,120	700	840			220	

NOTES: 1. 24" WHITE STRIPE IS FOR STOP BARS. 2. NO PROFILE MARKINGS FROM MILES CITY LIMIT SIGN TO US 67

FOR	FOR CONTRACTOR INFORMATION ONLY								
STOP BARS SEALER									
LENGTH EA	LOCATION	LENGTH EA	LOCATION						
33'	US 67	14'	CO RD 254						
14'	CO RD 254								







A. It Ille

COUNTY: RUNNELS HIGHWAY: US 67 FRONTAGE ROADS INDEX: J LIMITS OF PROJECT: TOM GREEN COUNTY LINE TO FM 2133 LENGTH: 11.467 MILES

666-6036	666-6048	666-6138	PAVEMENT MARKING QU 666-6147	JANTITIES (THIS SHEE 666-6230	1 ONLY) 666-6300	666-6303	666-6312
REFL PAV MF TY I (W) 8"(SLI (100MIL)	K REFL PAV MRK	REFL PAV MI	RK REFL PAV MRK	PAVEMENT SEALER 24"	RE PM W/RET REQ TY I (W)4"(BRK) (100 MIL)	RE PM W/RET REQ	RE PM W/RET REQ TY I (Y)4"(BRK) (100 MIL)
LF	LF	LF	LF	LF	LF	LF	LF
	1,448			10			2,230
	I	I					
666-6315	666-6342	666-6344	666-6345	668-6089	677-6007	6056-6002	
RE PM W/RET F TY I (Y)4"(SLD (100 MIL)		RK REF PROF PAV 200 TY I (Y) 4" (BRK) MIL)		PREFAB PAV MRK TY C (W)(RR XING)	ELIM EXT PAV MRK & MRKS (24")	PREFORMED CENTERLINE RUMBLE STRIP	
LF	LF	LF	LF	EA	LF	LF	
5,950		11,780	16,740	1	9	4,500	
OTES: 1 2.	24" WHITE NO PROFIL	STRIPE E MARKIN	IS FOR STON GS FROM CO	P BARS.		CONTRACTOR	
4. 5.	NO PROFILI NO PROFILI	E MARKIN E MARKIN	IGS FROM CO IGS FROM TH	RD 253 T HIELE ST T	0 THIELE S 0 SOUTH F	M 1692 IN	E IN BALLING IN ROWENA. 5 NORTH SID MILES SOUTH
4. 5. FOR	NO PROFILI NO PROFILI CONTRACTOF	E MARKIN E MARKIN R INFORMA	GS FROM CO GS FROM TH ATION ONLY	FOR CON	O THIELE S O SOUTH F NTRACTOR I	N MILES M 1692 IN NFORMATION	S NORTH SIDI MILES SOUTH N ONLY
4. 5. FOR	NO PROFILI NO PROFILI	E MARKIN E MARKIN R INFORMA	IGS FROM CO IGS FROM TH	RD 253 T HIELE ST T	O THIELE S O SOUTH F NTRACTOR I	M 1692 IN	S NORTH SIDI MILES SOUTH N ONLY
4. 5. FOR STOP BAI	NO PROFILI NO PROFILI CONTRACTOF	E MARKIN E MARKIN R INFORMA SEALER I	GS FROM CO GS FROM TH ATION ONLY	FOR CON	0 THIELE S 0 SOUTH F NTRACTOR I FRT RD STO	N MILES M 1692 IN NFORMATION	S NORTH SIDI MILES SOUTH N ONLY
4. 5. FOR STOP BAI LENGTH EA	NO PROFILI NO PROFILI CONTRACTOF	E MARKIN E MARKIN R INFORMA SEALER I LENGTH EA	GS FROM CO GS FROM TH ATION ONLY	FOR CON STOP BARS S	O THIELE S O SOUTH F NTRACTOR I FRT RD STO LOCATION LENG	NFORMATION	S NORTH SIDI MILES SOUTH N ONLY RD STOP BA ON LENGTH EA
4. 5. FOR STOP BAN LENGTH EA	NO PROFILI NO PROFILI CONTRACTOF RS N FRT RD LOCATION L	E MARKIN E MARKIN R INFORMA SEALER 1 LENGTH EA 1 10' C	GS FROM CO GS FROM TH ATION ONLY N FRT RD LOCATION 0 RD 402	FOR CON STOP BARS S LENGTH EA 11' FM	O THIELE S O SOUTH F NTRACTOR I FRT RD STO LOCATION LENG	T IN MILES M 1692 IN NFORMATION P BARS S FRT R STH EA LOCATI	S NORTH SIDI MILES SOUTH N ONLY ON LENGTH EA 244 12',26,13'
4. 5. FOR STOP BAI LENGTH EA 26', 9'	NO PROFILI NO PROFILI CONTRACTOF RS N FRT RD LOCATION L US 67 CEMETERY	E MARKIN E MARKIN R INFORMA SEALER M LENGTH EA M LENGTH EA M	GS FROM CO GS FROM TH ATION ONLY N FRT RD LOCATION 0 RD 402 24" N FRT RD .OCATION	FOR CON STOP BARS S LENGTH EA 11' FM 10',10',24' WAL	O THIELE S O SOUTH F NTRACTOR I FRT RD STO LOCATION LENC 2133 2	NFORMATION NFORMATION DP BARS S FRT R GTH EA LOCATION 25',11' CO RD 2	S NORTH SIDI MILES SOUTH N ONLY ON LENGTH EA 244 12',26,13' K-OVER 28'
4. 5. FOR STOP BAI LENGTH EA 26', 9' 11',12',28'	NO PROFILI NO PROFILI CONTRACTOF RS N FRT RD LOCATION L US 67 CEMETERY	E MARKIN E MARKIN R INFORMA SEALER M LENGTH EA M LENGTH EA M	GS FROM CO GS FROM TH ATION ONLY N FRT RD LOCATION O RD 402 24" N FRT RD	FOR CON FOR CON STOP BARS S LENGTH EA 11' FM 10',10',24' WAL 11',11' CO F	O THIELE S O SOUTH F NTRACTOR I FRT RD STO LOCATION LENC 2133 2 MART RD 230	T IN MILES M 1692 IN NFORMATION P BARS S FRT R TH EA LOCATION 25',11' CO RD 2 17' US 67 X	S NORTH SIDI MILES SOUTH N ONLY 20 STOP BA 24 LENGTH EA 244 12',26,13' X-OVER 28' X-OVER 22'
4. 5. FOR STOP BAI LENGTH EA 26', 9' 11',12',28' 10'	NO PROFILI NO PROFILI CONTRACTOF RS N FRT RD LOCATION L US 67 CEMETERY CO RD 402	E MARKIN E MARKIN R INFORMA SEALER I LENGTH EA I LENGTH EA L	GS FROM CO GS FROM TH ATION ONLY N FRT RD LOCATION 0 RD 402 24" N FRT RD .OCATION	RD 253 T HIELE ST T FOR CON STOP BARS S LENGTH EA L 11' FM A 10',10',24' WAL A 11',11' CO F 10',27' CO F	O THIELE S O SOUTH F NTRACTOR I FRT RD STO LOCATION LENC 2133 2 MART RD 230 RD 230	ST IN MILES M 1692 IN NFORMATION P BARS S FRT R STH EA LOCATION 25',11' CO RD 2 17' US 67 X 22' US 67 X	S NORTH SID MILES SOUTH N ONLY D STOP BA ON LENGTH EA 244 12',26,13' K-OVER 28' K-OVER 22' 21'

17',25'

10',10'

25',25'

10',13'

8',10'

9',12',24'

22'

CO RD 259

CO RD 259

FM 1678

FM 1678

CO RD 240

CO RD 240

US 67

PONY ST

FM 2133

MARY ST

MAIN ST

DEPOT ST

DEPOT ST

FM 2872

10'

11',11',22'

18',11',26'

15'

12',12'

13',26'

13',13',26'

34',12',9'

9',25',8'

11',27',8'

32'

23'

25'

18'

11',11',23'

11',11'

13',30'

12',12'

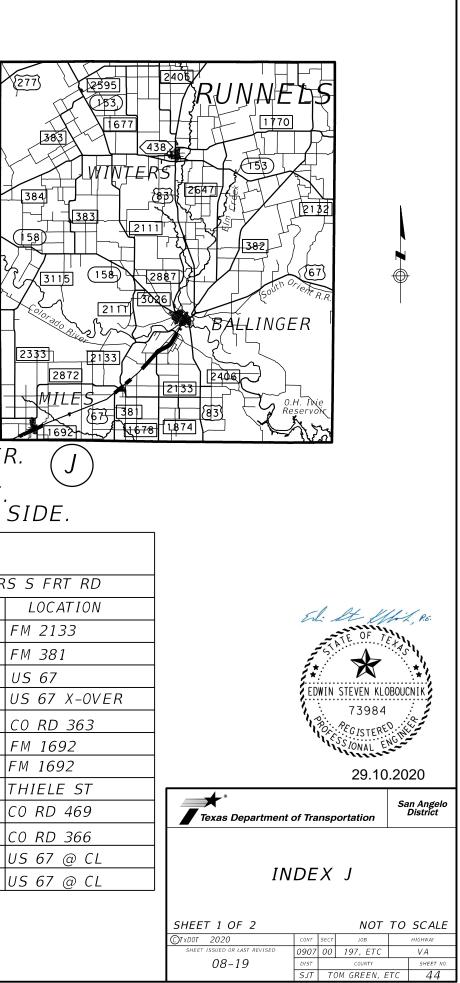
9',32',19' FM 1692

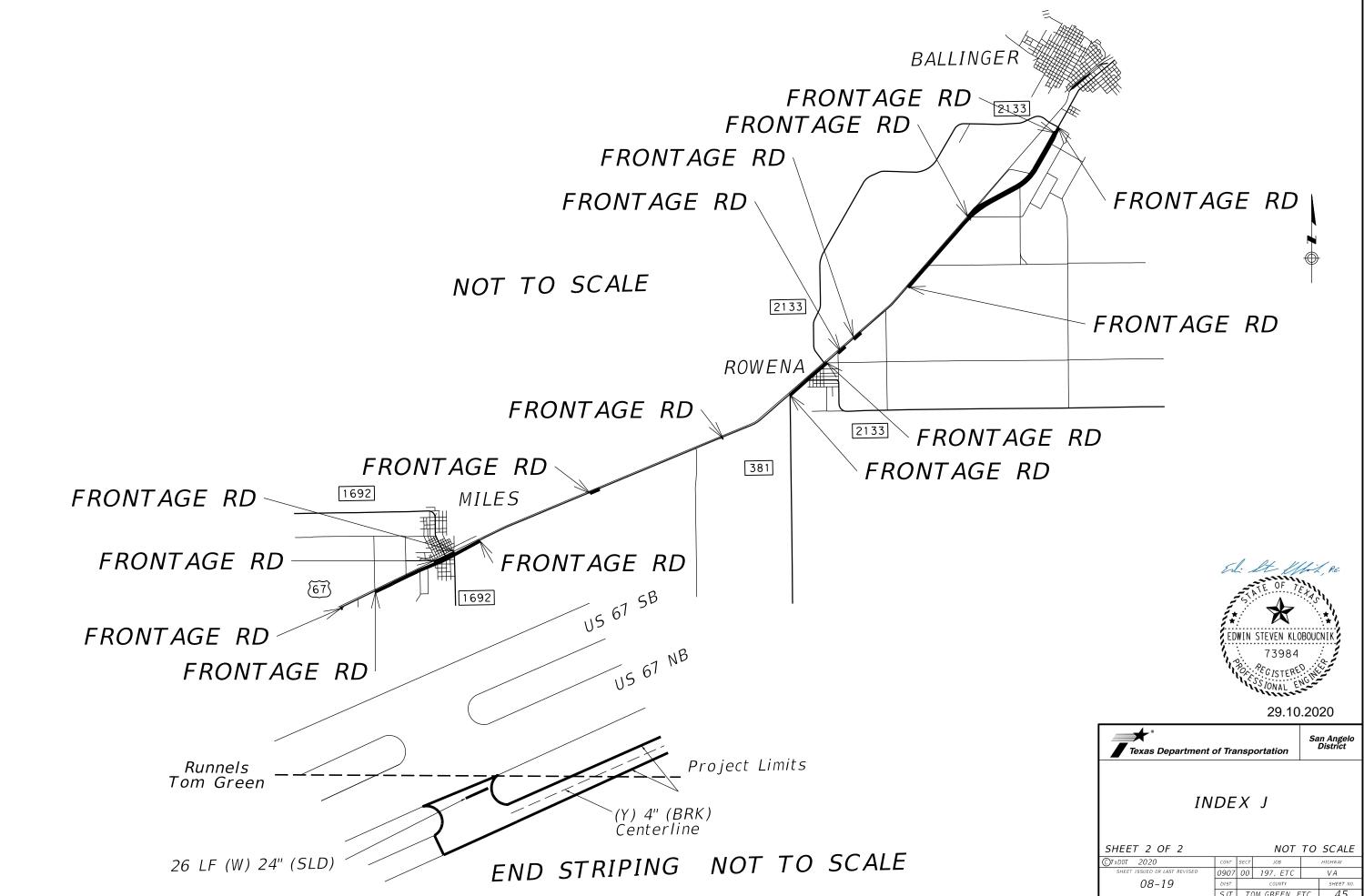
CO RD 449

CO RD 253

THIELE ST

CO RD 449 RR





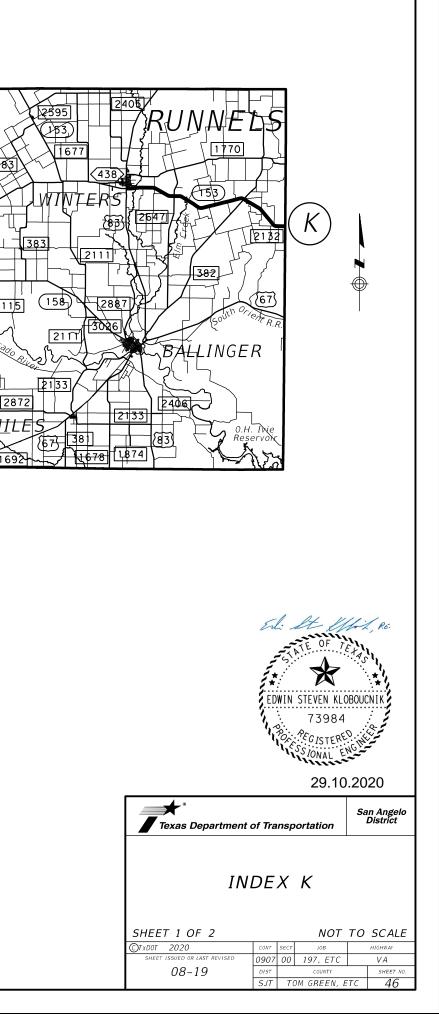
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SHEET 2 OF 2			NOT	ΤО	SCALE			
©TxDOT 2020	CONT	SECT	JOB		HIGHWAY			
SHEET ISSUED OR LAST REVISED	0907	00	197, ETC		VA			
08-19	DIST		COUNTY		SHEET NO.			
	SJT	T	OM GREEN, E	TC	45			

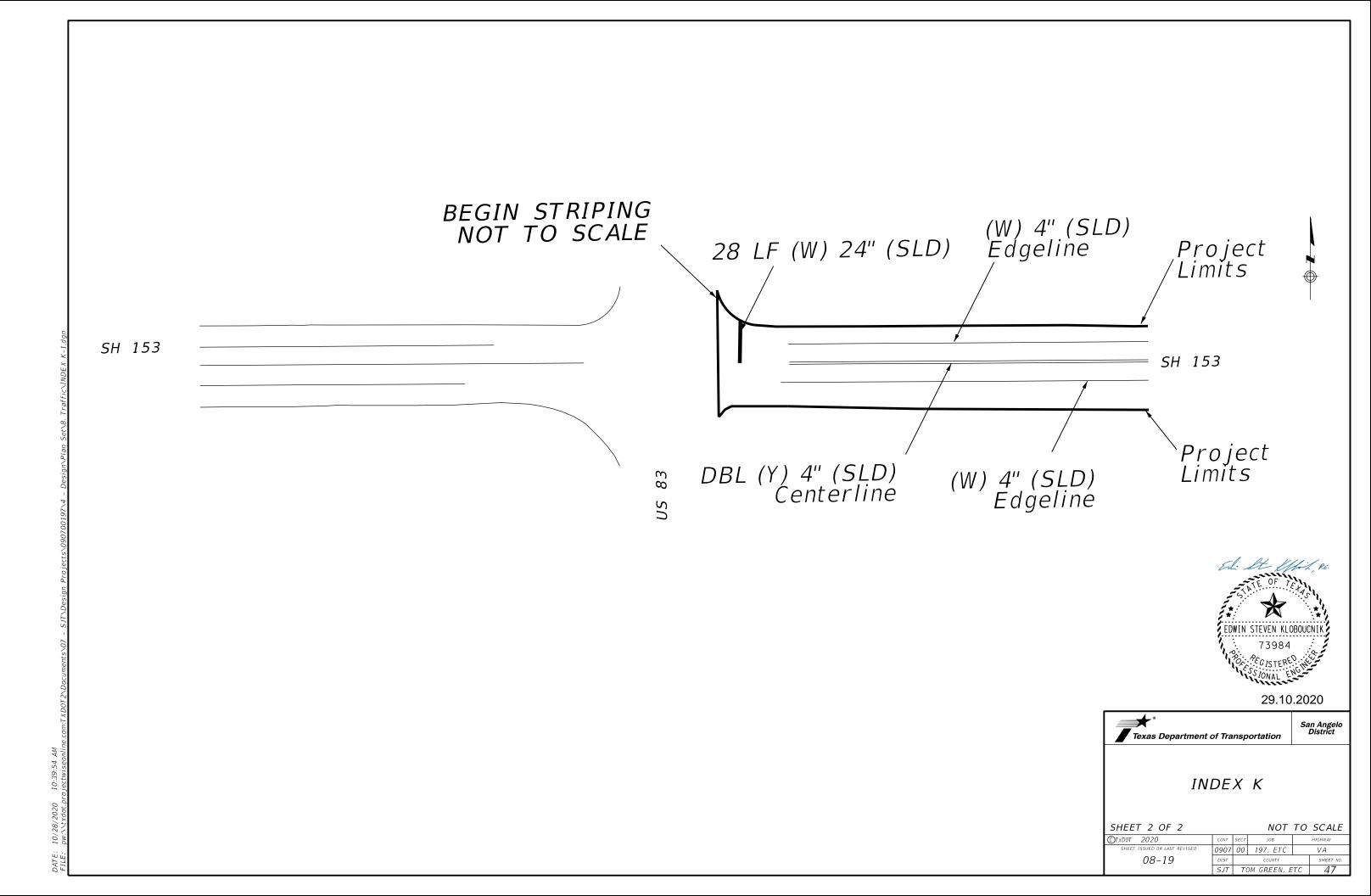
COUNTY: RUNNELS HIGHWAY: SH 153 INDEX: K LIMITS OF PROJECT: US 83 TO COLEMAN COUNTY LINE LENGTH: 16.100 MILES

		PA	AVEMENT MARKING QU	ANTITIES (THIS SHEET	T ONLY)		
666-6036	666-6048	666-6138	666-6147	666-6230	666-6300	666-6303	666-6312
REFL PAV MRK TY I (W) 8"(SLD) (100MIL)	REFL PAV MRK TY I (W) 24"(SLD) (100MIL)	REFL PAV MRK TY I (Y) 8"(SLD) (100MIL)	REFL PAV MRK TY I (Y) 24"(SLD) (100MIL)	PAVEMENT SEALER 24"	RE PM W/RET REQ TY I (W)4"(BRK) (100 MIL)	RE PM W/RET REQ TY I (W)4"(SLD) (100 MIL)	RE PM W/RET REQ TY I (Y)4"(BRK) (100 MIL)
LF	LF	LF	LF	LF	LF	LF	LF
	313			138	230	1,560	50
666-6315	666-6342	666-6344	666-6345	668-6089	677-6007	6056-6002	
RE PM W/RET REQ TY I (Y)4"(SLD) (100 MIL)	REF PROF PAV MRK TY I (W) 4" (SLD) (100 MIL)	REF PROF PAV MRK TY I (Y) 4" (BRK) (100 MIL)		PREFAB PAV MRK TY C (W)(RR XING)	ELIM EXT PAV MRK & MRKS (24")	PREFORMED CENTERLINE RUMBLE STRIP	
LF	LF	LF	LF	EA	LF	LF	
4,300	166,000	19,490	40,000			6,350	

NOTES: 1. 24" WHITE STRIPE IS FOR STOP BARS. 2. NO PROFILE MARKINGS FROM US 83 TO THE 50 MPH IN WINTERS.

STOP	P BARS	STOP	BARS
LENGTH EA	LOCATION	LENGTH EA	LOCATION
28'	US 83	10'	CO RD 139
8' ,8'	CO RD 396	10'	CO RD 142
11'	CO RD 355	SEA	LER
12',16'	CO RD 170	LENGTH EA	LOCATION
14'	C0 RD 208	8'	CO RD 396
22',22'	FM 2647	10'	CO RD 167
10'	CO RD 167	10'	CO RD 165
10'	CO RD 165	10'	CO RD 154
10'	CO RD 154	10'	CO RD 179
10'	CO RD 179	10'	CO RD 155
10'	CO RD 155	20'	CO RD 150
30',12'	FM 382	15',15'	CO RD 140
20'	CO RD 150	10'	CO RD 140
15',15'	CO RD 140	10'	CO RD 139
10'	CO RD 140	10'	CO RD 142



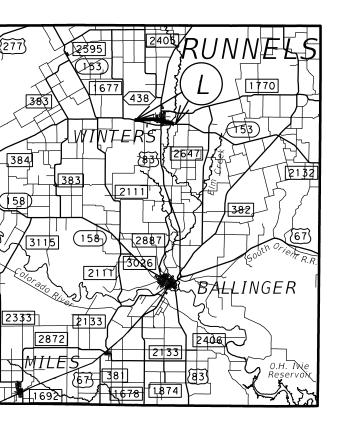


COUNTY: RUNNELS HIGHWAY: SL 438 INDEX: L LIMITS OF PROJECT: SH 153 TO SH 153 LENGTH: 3.680 MILES

		PA	VEMENT MARKING QU	ANTITIES (THIS SHEE	T ONLY)		
666-6036	666-6048	666-6138	666-6147	666-6230	666-6300	666-6303	666-6312
REFL PAV MRK TY I (W) 8"(SLD) (100MIL)	REFL PAV MRK TY I (W) 24"(SLD) (100MIL)	REFL PAV MRK TY I (Y) 8"(SLD) (100MIL)	REFL PAV MRK TY I (Y) 24"(SLD) (100MIL)	PAVEMENT SEALER 24"	RE PM W/RET REQ TY I (W)4"(BRK) (100 MIL)	RE PM W/RET REQ TY I (W)4"(SLD) (100 MIL)	RE PM W/RET REQ TY I (Y)4"(BRK) (100 MIL)
LF	LF	LF	LF	LF	LF	LF	LF
	245			40		11,190	
	·						
666-6315	666-6342	666-6344	666-6345	668-6089	677-6007	6056-6002	
RE PM W/RET REQ TY I (Y)4"(SLD) (100 MIL)	REF PROF PAV MRK TY I (W) 4" (SLD) (100 MIL)	REF PROF PAV MRK TY I (Y) 4" (BRK) (100 MIL)	REF PROF PAV MRK TY I (Y) 4" (SLD) (100 MIL)	PREFAB PAV MRK TY C (W)(RR XING)	ELIM EXT PAV MRK & MRKS (24")	PREFORMED CENTERLINE RUMBLE STRIP	
LF	LF	LF	LF	EA	LF	LF	
16,450	13,180	1,660	11,550		80	380	

NOTES: 1. 24" WHITE STRIPE IS FOR STOP BARS AND CROSSWALK CROSS BARS ONLY. 2. NO PROFILE MARKINGS FROM US 83 TO 55 MPH SIGN ON THE WEST SIDE OF WINTERS. 3. NO PROFILE MARKINGS FROM US 83 TO 45 MPH SIGN ON THE EAST SIDE OF WINTERS.

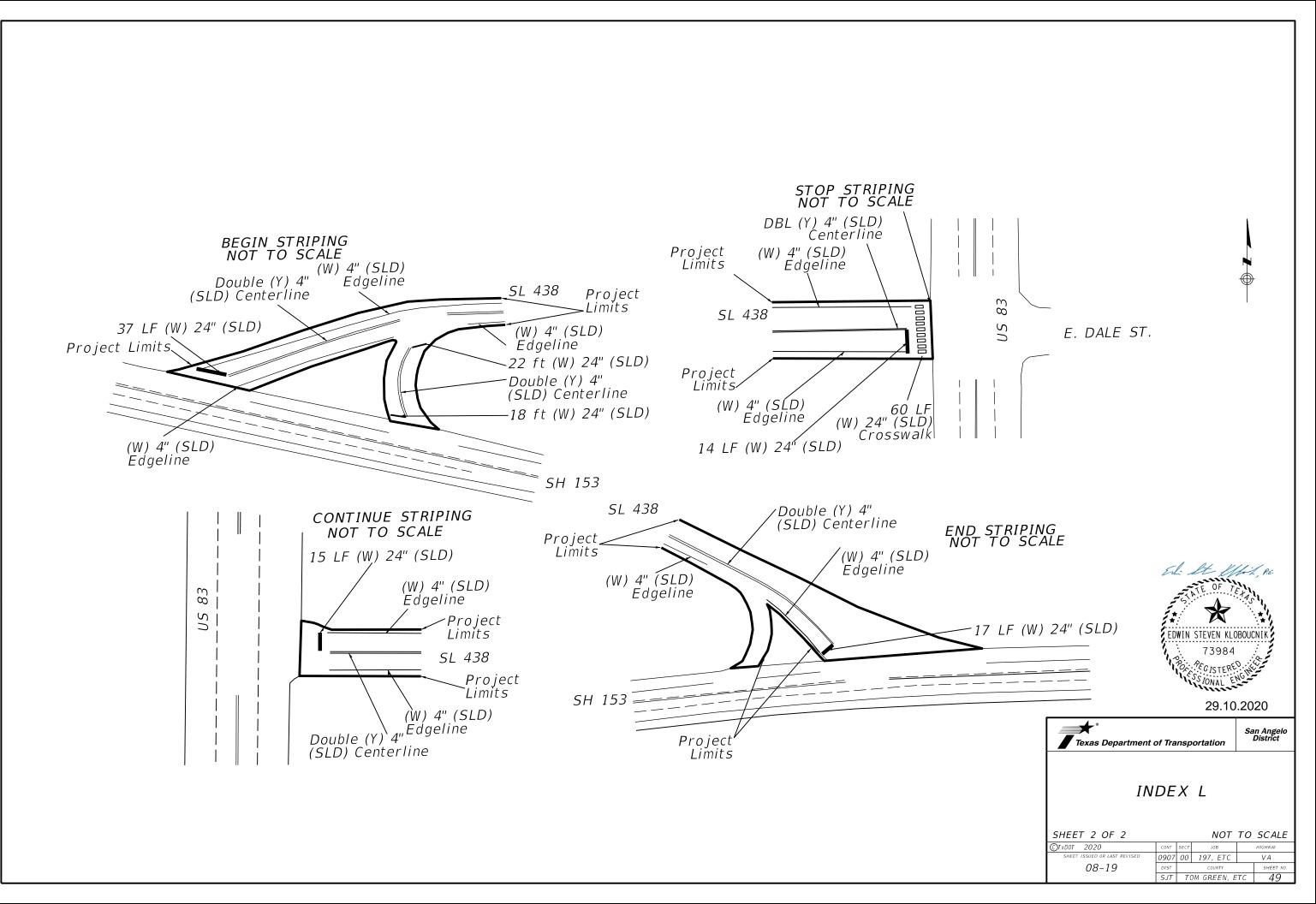
FOR	FOR CONTRACTOR INFORMATION ONLY									
STOP	BARS	SEALEF	?							
LENGTH EA	LOCATION	LENGTH EA	LOCATION							
37'	SH 153	10'	CO RD 334							
22',18'	SH 153	1 1',1 1'	S CRYER ST							
10'	CO RD 334	8'	C0 RD 398							
14'	US 83	CR0.	SSWALK							
15'	US 83	LENGTH EA	LOCATION							
11',11',11',11	'S CRYER ST	60'	US 83							
8'	CO RD 398	REM	10VE 24"							
17'	SH 153	LENGTH EA	LOCATION							
		80'	US 83 CROSSWALK							





29.10.2020

San Angelo District Texas Department of Transportation INDEX L SHEET 1 OF 2 NOT TO SCALE ©TxDOT 2020 JOB 0907 00 197, ETC VA 08-19 sнеет no. 48 SJT TOM GREEN, ETC

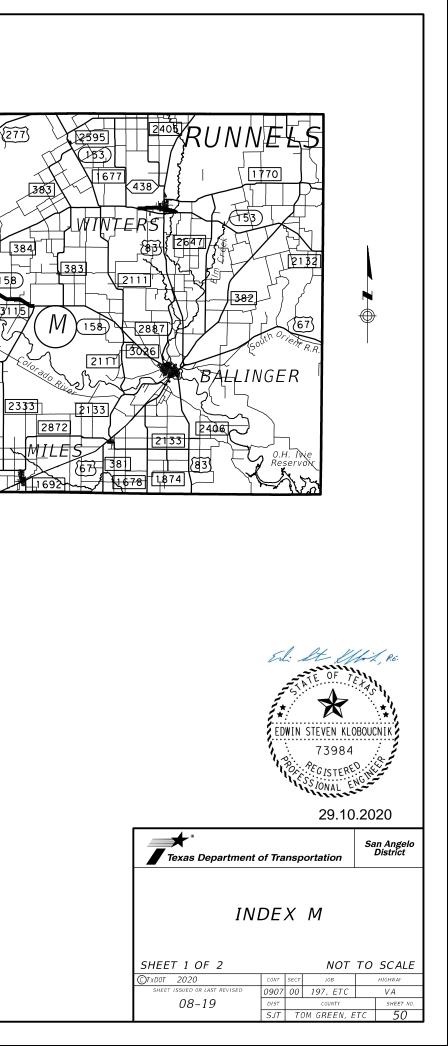


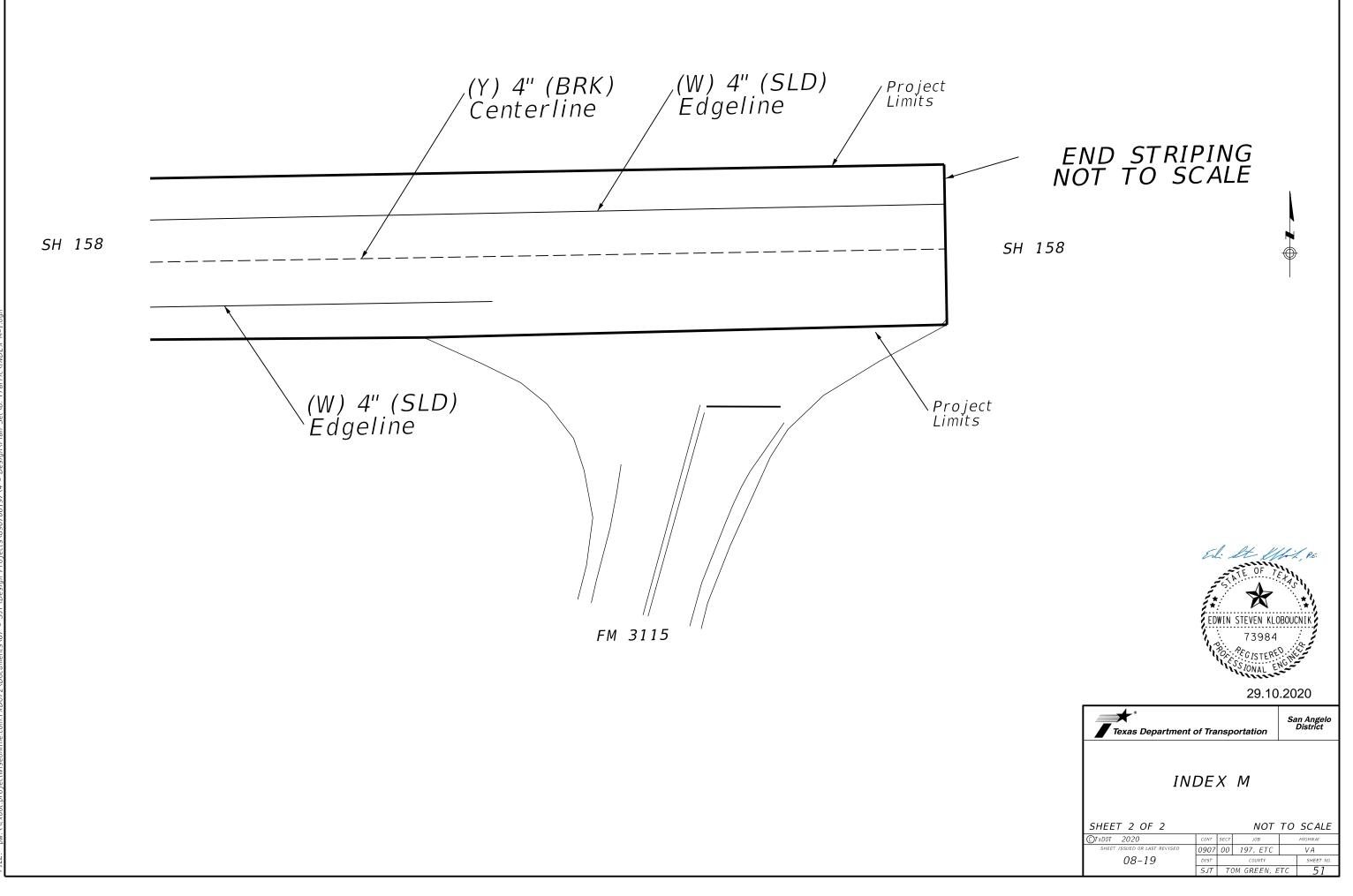
COUNTY: RUNNELS HIGHWAY: SH 158 INDEX: M LIMITS OF PROJECT: COKE COUNTY LINE TO FM 3115 LENGTH: 4.538 MILES

		PA	VEMENT MARKING QU.	ANTITIES (THIS SHEET	T ONLY)		
666-6036	666-6048	666-6138	666-6147	666-6230	666-6300	666-6303	666-6312
REFL PAV MRK TY I (W) 8"(SLD) (100MIL)	REFL PAV MRK TY I (W) 24"(SLD) (100MIL)	REFL PAV MRK TY I (Y) 8"(SLD) (100MIL)	REFL PAV MRK TY I (Y) 24"(SLD) (100MIL)	PAVEMENT SEALER 24"	RE PM W/RET REQ TY I (W)4"(BRK) (100 MIL)	RE PM W/RET REQ TY I (W)4"(SLD) (100 MIL)	RE PM W/RET REQ TY I (Y)4"(BRK) (100 MIL)
LF	LF	LF	LF	LF	LF	LF	LF
	109			8			
						•	
666-6315	666-6342	666-6344	666-6345	668-6089	677-6007	6056-6002	
RE PM W/RET REQ TY I (Y)4"(SLD) (100 MIL)	REF PROF PAV MRK TY I (W) 4" (SLD) (100 MIL)	REF PROF PAV MRK TY I (Y) 4" (BRK) (100 MIL)	REF PROF PAV MRK TY I (Y) 4" (SLD) (100 MIL)	PREFAB PAV MRK TY C (W)(RR XING)	ELIM EXT PAV MRK & MRKS (24")	PREFORMED CENTERLINE RUMBLE STRIP	
LF	LF	LF	LF	EA	LF	LF	
	47,400	5,280	12,800			1,790	

NOTES: 1. 24" WHITE STRIPE IS FOR STOP BARS.

FOR	FOR CONTRACTOR INFORMATION ONLY									
STOP	' BARS	SEALEF	?							
LENGTH EA	LOCATION	LENGTH EA	LOCATION							
8'	CO RD 297	8'	CO RD 297							
16'	CO RD 214									
10'	CO RD 213									
9'	CO RD 210									
9'	CO RD 211									
9',10'	CO RD 213									
8'	CO RD 359									
20'	FM 3115									



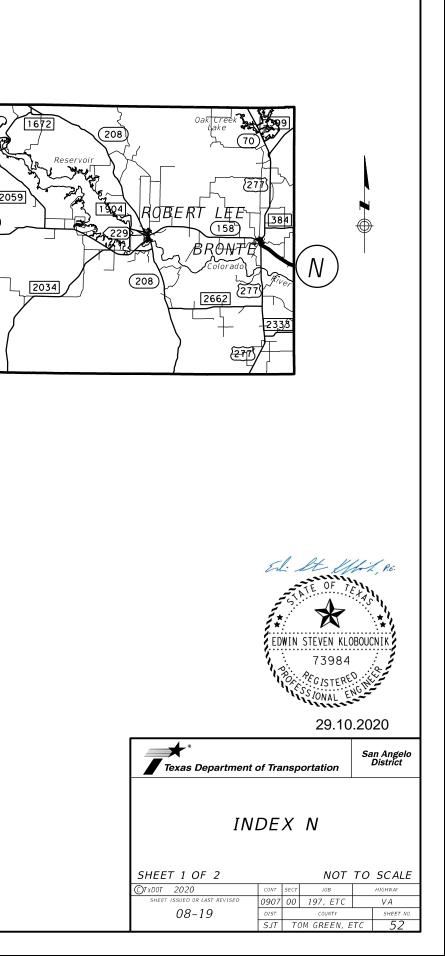


COUNTY: COKE HIGHWAY: SH 158 INDEX: N LIMITS OF PROJECT: US 277 TO RUNNELS COUNTY LINE LENGTH: 4.101 MILES

		PA	VEMENT MARKING QU.	ANTITIES (THIS SHEET	F ONLY)		
666-6036	666-6048	666-6138	666-6147	666-6230	666-6300	666-6303	666-6312
REFL PAV MRK TY I (W) 8"(SLD) (100MIL)	REFL PAV MRK TY I (W) 24"(SLD) (100MIL)	REFL PAV MRK TY I (Y) 8"(SLD) (100MIL)	REFL PAV MRK TY I (Y) 24"(SLD) (100MIL)	PAVEMENT SEALER 24"	RE PM W/RET REQ TY I (W)4"(BRK) (100 MIL)	RE PM W/RET REQ TY I (W)4"(SLD) (100 MIL)	RE PM W/RET REQ TY I (Y)4"(BRK) (100 MIL)
LF	LF	LF	LF	LF	LF	LF	LF
130	51			26		2,970	100
	·						
666-6315	666-6342	666-6344	666-6345	668-6089	677-6007	6056-6002	
RE PM W/RET REQ TY I (Y)4"(SLD) (100 MIL)	REF PROF PAV MRK TY I (W) 4" (SLD) (100 MIL)		REF PROF PAV MRK TY I (Y) 4" (SLD) (100 MIL)	PREFAB PAV MRK TY C (W)(RR XING)	ELIM EXT PAV MRK & MRKS (24")	PREFORMED CENTERLINE RUMBLE STRIP	
LF	LF	LF	LF	EA	LF	LF	
2,700	40,700	4,820	11.860			1,240	

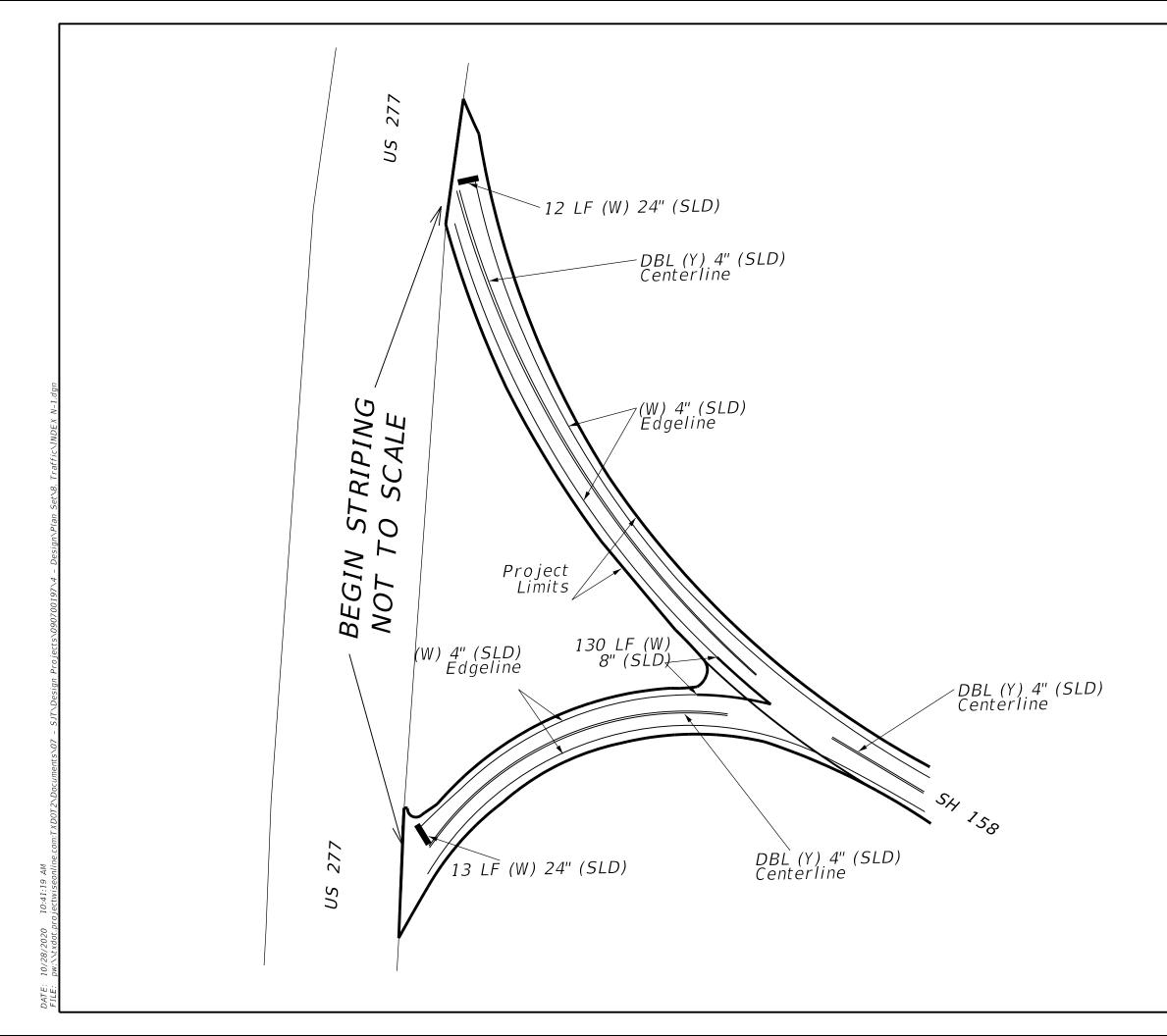
NOTES: 1. 24" WHITE STRIPE IS FOR STOP BARS. 2. 8" WHITE SOLID FOR GORE. 3. NO PROFILE MARKINGS FROM US 277 TO BRONTE CITY LIMIT SIGN.

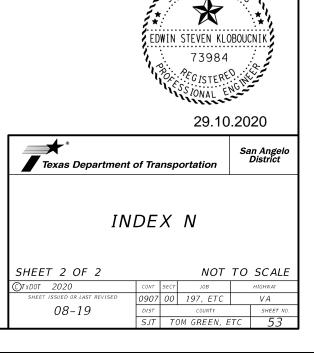
FOR	FOR CONTRACTOR INFORMATION ONLY										
STOP	' BARS	SEALEF	?								
LENGTH EA	LOCATION	LENGTH EA	LOCATION								
13',12'	US 277	16'	BELL RD								
16'	BELL RD	10'	CERVENKA RD								
10'	CERVENKA RD										



(158

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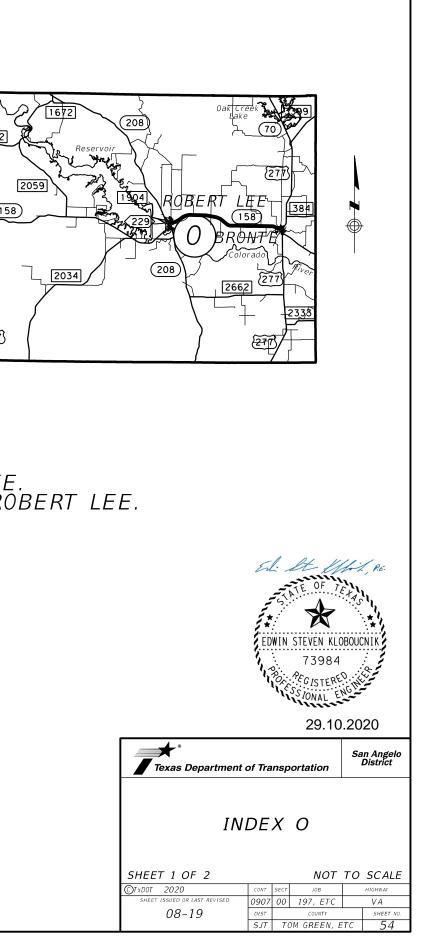
Eli St Minh, P.E.

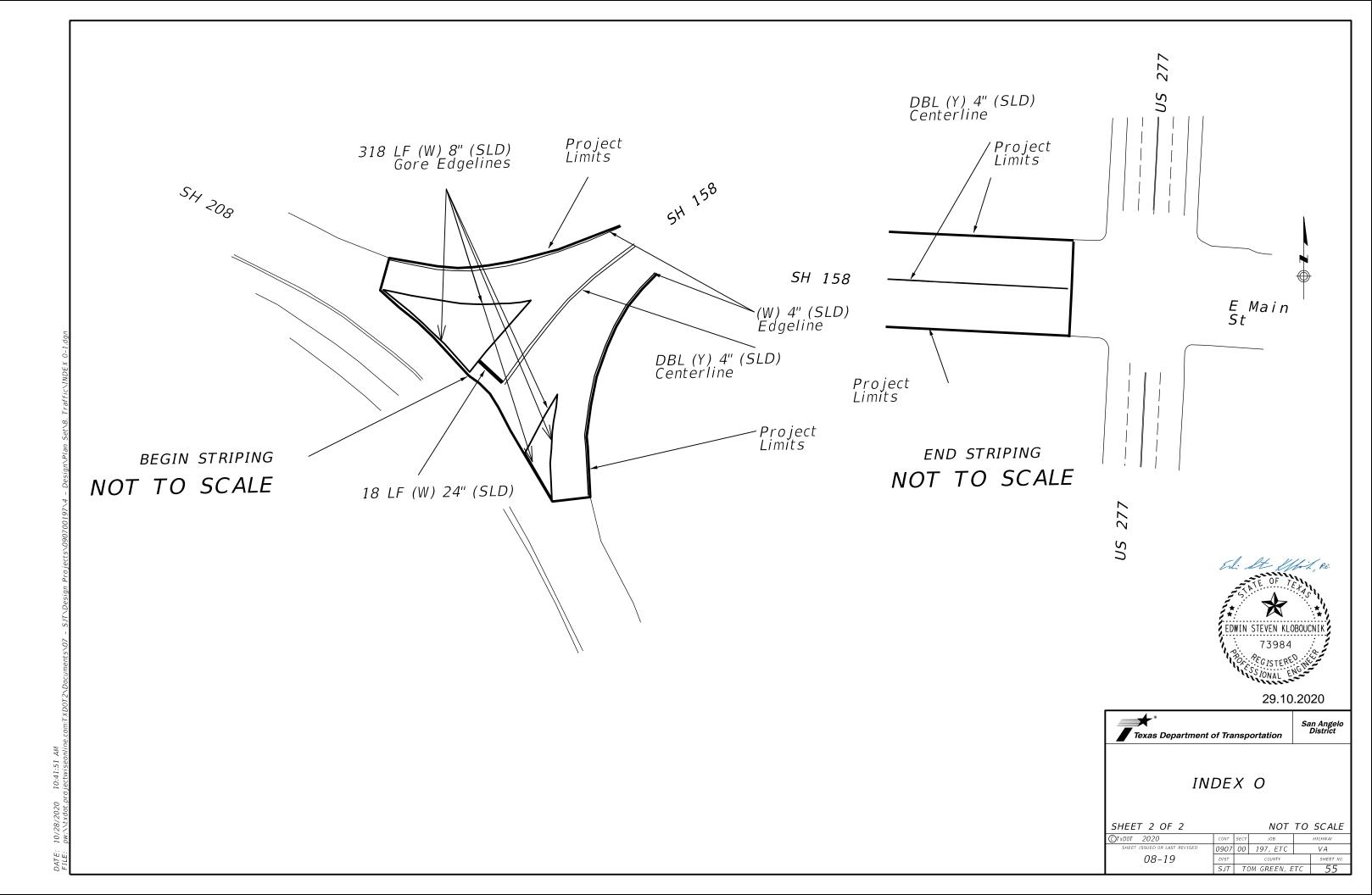
COUNTY: COKE HIGHWAY: SH 158 INDEX: O LIMITS OF PROJECT: SH 208 TO US 277 LENGTH: 11.768 MILES

		PA	AVEMENT MARKING QU.	ANTITIES (THIS SHEET	T ONLY)		
666-6036	666-6048	666-6138	666-6147	666-6230	666-6300	666-6303	666-6312
REFL PAV MRK TY I (W) 8"(SLD) (100MIL)	REFL PAV MRK TY I (W) 24"(SLD) (100MIL)	REFL PAV MRK TY I (Y) 8"(SLD) (100MIL)	REFL PAV MRK TY I (Y) 24"(SLD) (100MIL)	PAVEMENT SEALER 24"	RE PM W/RET REQ TY I (W)4"(BRK) (100 MIL)	RE PM W/RET REQ TY I (W)4"(SLD) (100 MIL)	RE PM W/RET REQ TY I (Y)4"(BRK) (100 MIL)
LF	LF	LF	LF	LF	LF	LF	LF
318	236			24	1,660	7,430	240
666-6315	666-6342	666-6344	666-6345	668-6089	677-6007	6056-6002	
RE PM W/RET REQ TY I (Y)4"(SLD) (100 MIL)	REF PROF PAV MRK TY I (W) 4" (SLD) (100 MIL)	REF PROF PAV MRK TY I (Y) 4" (BRK) (100 MIL)	REF PROF PAV MRK TY I (Y) 4" (SLD) (100 MIL)	PREFAB PAV MRK TY C (W)(RR XING)	ELIM EXT PAV MRK & MRKS (24")	PREFORMED CENTERLINE RUMBLE STRIP	
LF	LF	LF	LF	EA	LF	LF	
7,350	113,650	11,890	36,960			3,700	

- NOTES: 1. 24" WHITE STRIPE IS FOR STOP BARS & SCHOOL ZONE. 2. 8" WHITE SOLID IS FOR ISLANDS. 3. NO PROFILE MARKINGS FROM US 277 TO 55 MPH SIGN WEST SIDE OF BRONTE. 4. NO PROFILE MARKINGS FROM THE 55 MPH SIDE TO SH 208 EAST SIDE OF ROBERT LEE.

FOR	CONTRACTOR I	NFORMAT	ION ONLY
STOP	' BARS	SEALER	
LENGTH EA	LOCATION	LENGTH EA	LOCATION
44'	SCHOOL	14'	HUMBLE RD
44'	SCHOOL	10'	COX RD
14'	HUMBLE RD		
16'	HAYRICK RD		
14'	DOUBLE BARREL RD		
15'	7 MILE HILL RD		
16'	W HAYRICK RD		
14'	INDIAN CREEK RD		
10'	COX RD		
12',19'	SCOTT LN		
18'	SH 208		



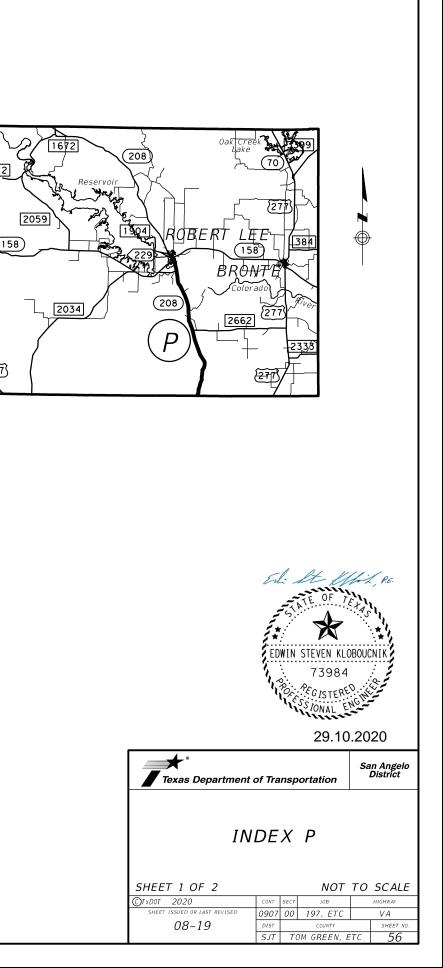


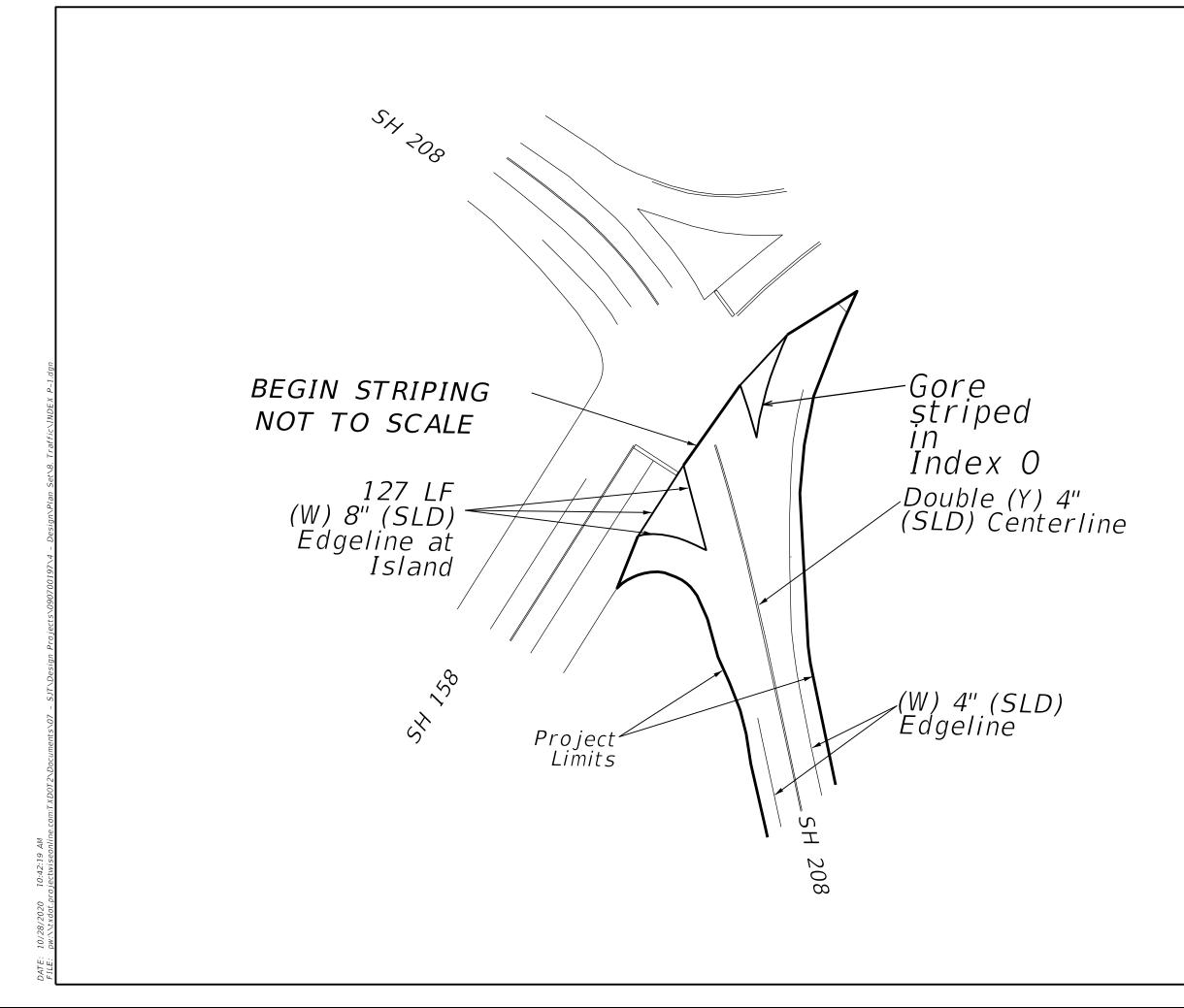
COUNTY: COKE HIGHWAY: SH 208 INDEX: P LIMITS OF PROJECT: SH 158 TO TOM GREEN COUNTY LINE LENGTH: 14.683 MILES

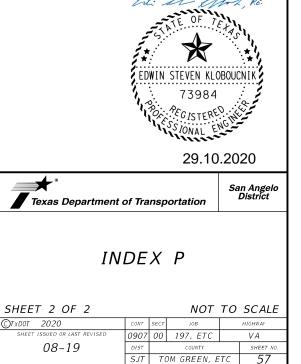
		PA	AVEMENT MARKING QU	ANTITIES (THIS SHEE)	T ONLY)		
666-6036	666-6048	666-6138	666-6147	666-6230	666-6300	666-6303	666-6312
REFL PAV MRK TY I (W) 8"(SLD) (100MIL)	REFL PAV MRK TY I (W) 24"(SLD) (100MIL)	REFL PAV MRK TY I (Y) 8"(SLD) (100MIL)	REFL PAV MRK TY I (Y) 24"(SLD) (100MIL)	PAVEMENT SEALER 24"	RE PM W/RET REQ TY I (W)4"(BRK) (100 MIL)	RE PM W/RET REQ TY I (W)4"(SLD) (100 MIL)	RE PM W/RET REQ TY I (Y)4"(BRK) (100 MIL)
LF	LF	LF	LF	LF	LF	LF	LF
127	178				520	5,730	
	·						
666-6315	666-6342	666-6344	666-6345	668-6089	677-6007	6056-6002	
RE PM W/RET REQ TY I (Y)4"(SLD) (100 MIL)	REF PROF PAV MRK TY I (W) 4" (SLD) (100 MIL)	REF PROF PAV MRK TY I (Y) 4" (BRK) (100 MIL)	REF PROF PAV MRK TY I (Y) 4" (SLD) (100 MIL)	PREFAB PAV MRK TY C (W)(RR XING)	ELIM EXT PAV MRK & MRKS (24")	PREFORMED CENTERLINE RUMBLE STRIP	
LF	LF	LF	LF	EA	LF	LF	
5,600	148,500	13,300	67,400			3,530	

NOTES: 1. 24" WHITE STRIPE IS FOR STOP BARS. 2. 8" WHITE SOLID IS FOR ISLANDS. 3. NO PROFILE MARKINGS FROM SH 158 TO ROBERT LEE CITY LIMIT SIGN.

FOR	CONTRACTOR I	NFORMAT	ION ONLY
STOP	BARS	SEALER	
LENGTH EA	LOCATION	LENGTH EA	LOCATION
27'	SL 229		
53'	RM 2034		
33'	VALLEYVIEW RD		
15'	VALLEYVIEW RD		
15'	BUFFALO CREEK RD		
15'	MATAPEAKE RD		
20'	FM 2662		







SJT TOM GREEN, ETC

COUNTY: COKE HIGHWAY: SH 70 INDEX: Q LIMITS OF PROJECT: NOLAN COUNTY LINE TO 0.6 MILES NORTH OF US 277 LENGTH: 4.899 MILES

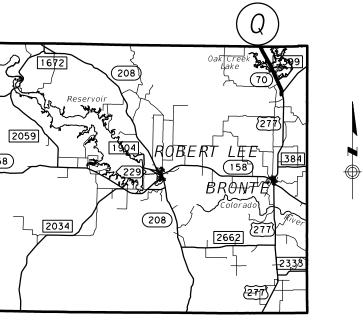
		PA	VEMENT MARKING QU	ANTITIES (THIS SHEE	T ONLY)		
666-6036	666-6048	666-6138	666-6147	666-6230	666-6300	666-6303	666-6312
REFL PAV MRK TY I (W) 8"(SLD) (100MIL)	REFL PAV MRK TY I (W) 24"(SLD) (100MIL)	REFL PAV MRK TY I (Y) 8"(SLD) (100MIL)	REFL PAV MRK TY I (Y) 24"(SLD) (100MIL)	PAVEMENT SEALER 24"	RE PM W/RET REQ TY I (W)4"(BRK) (100 MIL)	RE PM W/RET REQ TY I (W)4"(SLD) (100 MIL)	RE PM W/RET REQ TY I (Y)4"(BRK) (100 MIL)
LF	LF	LF	LF	LF	LF	LF	LF
	76				60		
666-6315	666-6342	666-6344	666-6345	668-6089	677-6007	6056-6002	
RE PM W/RET REQ TY I (Y)4"(SLD) (100 MIL)	REF PROF PAV MRK TY I (W) 4" (SLD) (100 MIL)	REF PROF PAV MRK TY I (Y) 4" (BRK) (100 MIL)	REF PROF PAV MRK TY I (Y) 4" (SLD) (100 MIL)	PREFAB PAV MRK TY C (W)(RR XING)	ELIM EXT PAV MRK & MRKS (24")	PREFORMED CENTERLINE RUMBLE STRIP	
LF	LF	LF	LF	EA	LF	LF	
	51,500	5,790	12.000		26	2,260	

NOTES: 1. 24" WHITE STRIPE IS FOR STOP BARS.

FOR CONTRACTOR INFORMATION ONLY								
STOP	BARS	REMOVE .	24"					
LENGTH EA	LOCATION	LENGTH EA	LOCATION					
14'	SWEET RD	26'	RM 3369					
8'	COPELAND RD							
17'	ROCKY POINT RD							
26'	RM 3369							
1 1'	ROSS RD							

(87)







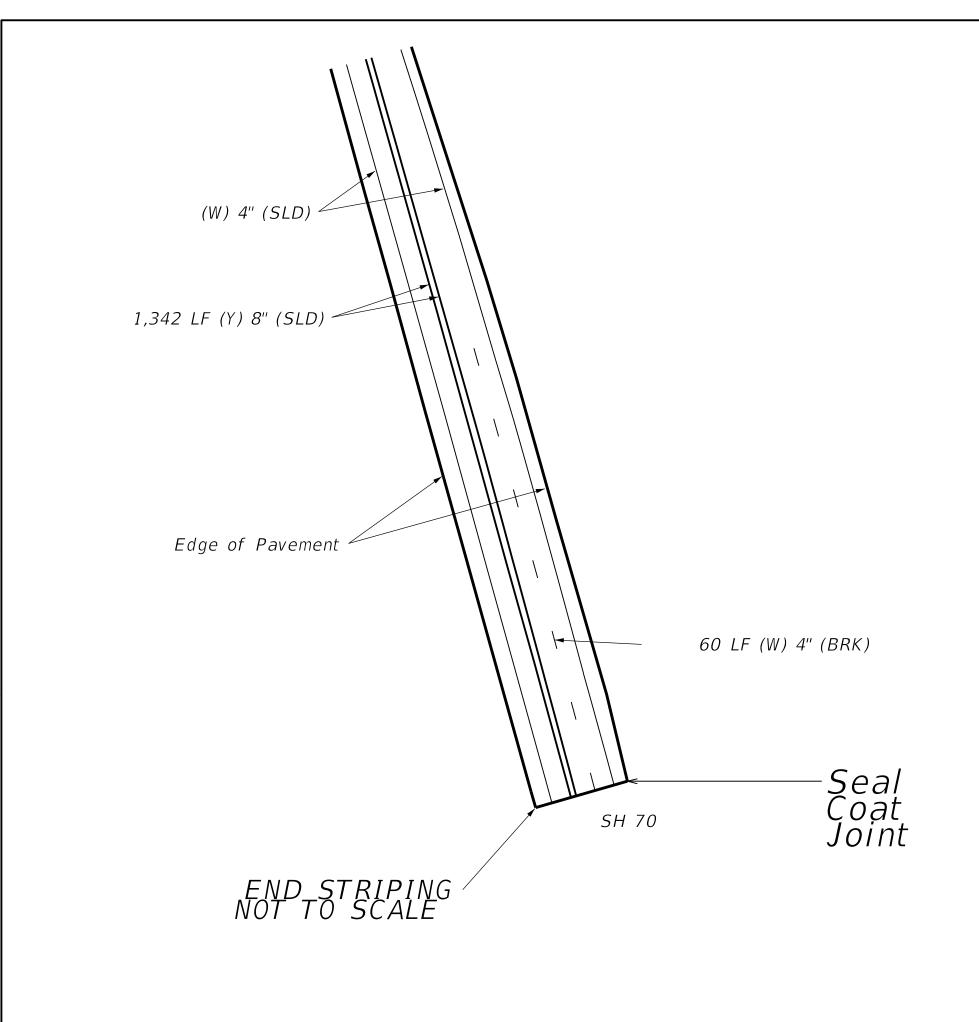
29.10.2020

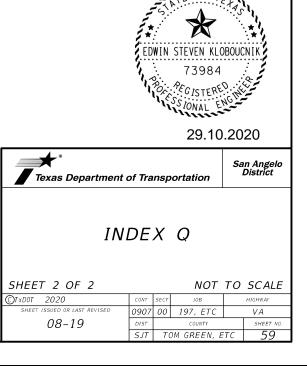
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San Angelo District

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	SJT	TOM GREEN, ETC		58		





COUNTY: COKE HIGHWAY: RM 1672 INDEX: R LIMITS OF PROJECT: SH 208 TO SH 208 LENGTH: 1.833 MILES

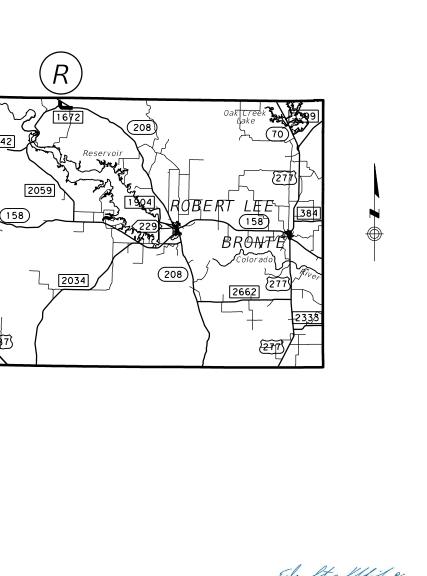
		PA	VEMENT MARKING QU	ANTITIES (THIS SHEET	T ONLY)		
666-6036	666-6048	666-6138	666-6147	666-6230	666-6300	666-6303	666-6312
REFL PAV MRK TY I (W) 8"(SLD) (100MIL)	REFL PAV MRK TY I (W) 24"(SLD) (100MIL)	REFL PAV MRK TY I (Y) 8"(SLD) (100MIL)	REFL PAV MRK TY I (Y) 24"(SLD) (100MIL)	PAVEMENT SEALER 24"	RE PM W/RET REQ TY I (W)4"(BRK) (100 MIL)	RE PM W/RET REQ TY I (W)4"(SLD) (100 MIL)	RE PM W/RET REQ TY I (Y)4"(BRK) (100 MIL)
LF	LF	LF	LF	LF	LF	LF	LF
217	86						
666-6315	666-6342	666-6344	666-6345	668-6089	677-6007	6056-6002	
RE PM W/RET REQ TY I (Y)4"(SLD) (100 MIL)	REF PROF PAV MRK TY I (W) 4" (SLD) (100 MIL)	REF PROF PAV MRK TY I (Y) 4" (BRK) (100 MIL)	REF PROF PAV MRK TY I (Y) 4" (SLD) (100 MIL)	PREFAB PAV MRK TY C (W)(RR XING)	ELIM EXT PAV MRK & MRKS (24")	PREFORMED CENTERLINE RUMBLE STRIP	
LF	LF	LF	LF	EA	LF	LF	
	18,700	1,660	9,900		10	265	

NOTES: 1. 24" WHITE STRIPE IS FOR STOP BARS. 2. 8" WHITE SOLID IS FOR ISLANDS.

FOR CONTRACTOR INFORMATION ONLY									
STOP	BARS	REMOVE	24"						
LENGTH EA	LOCATION	LENGTH EA	LOCATION						
11',34'	SH 208	10'	POST OFFICE RD						
10'	POST OFFICE RD								
31'	SILVER LP								

2742

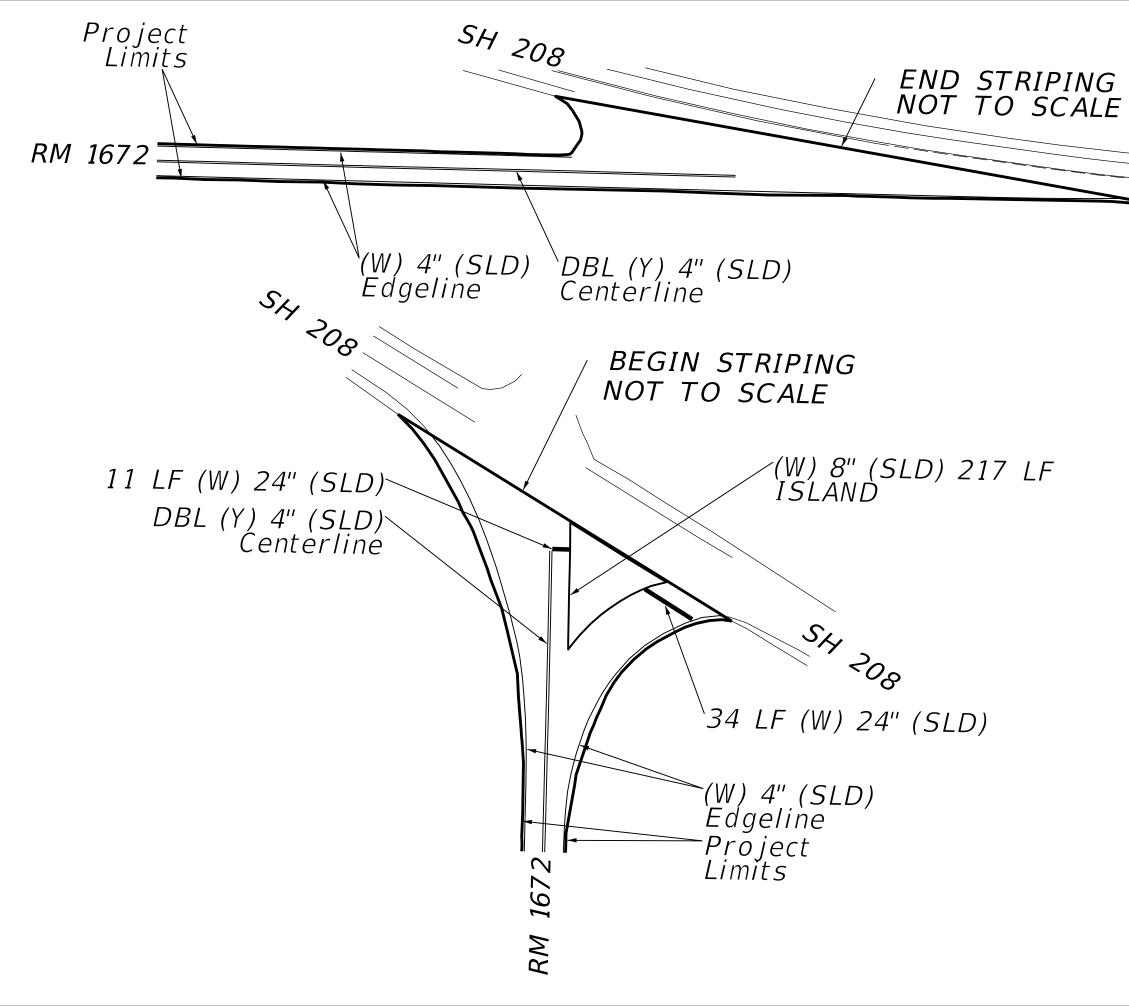
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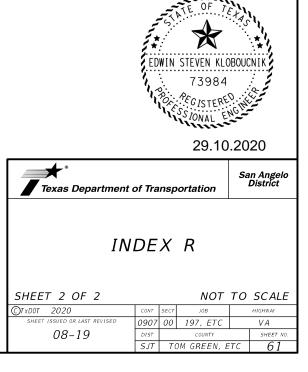
29.10.2020

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SH 208

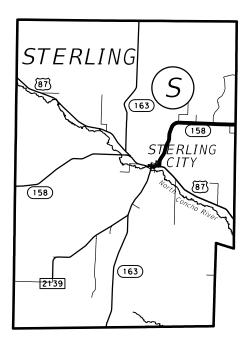


COUNTY: STERLING HIGHWAY: SH 158 INDEX: S LIMITS OF PROJECT: 170 FEET NORTH OF US 87 TO THE COKE COUNTY LINE LENGTH: 12.746 MILES

	PAVEMENT MARKING QUANTITIES (THIS SHEET ONLY)								
666-6036	666-6048	666-6138	666-6147	666-6230	666-6300	666-6303	666-6312		
REFL PAV MRK TY I (W) 8"(SLD) (100MIL)	REFL PAV MRK TY I (W) 24"(SLD) (100MIL)	REFL PAV MRK TY I (Y) 8"(SLD) (100MIL)	REFL PAV MRK TY I (Y) 24"(SLD) (100MIL)	PAVEMENT SEALER 24"	RE PM W/RET REQ TY I (W)4"(BRK) (100 MIL)	RE PM W/RET REQ TY I (W)4"(SLD) (100 MIL)	RE PM W/RET REQ TY I (Y)4"(BRK) (100 MIL)		
LF	LF	LF	LF	LF	LF	LF	LF		
	41			18	3,220	6,930	800		
666-6315	666-6342	666-6344	666-6345	668-6089	677-6007	6056-6002			
RE PM W/RET REQ TY I (Y)4"(SLD) (100 MIL)	REF PROF PAV MRK TY I (W) 4" (SLD) (100 MIL)	REF PROF PAV MRK TY I (Y) 4" (BRK) (100 MIL)	REF PROF PAV MRK TY I (Y) 4" (SLD) (100 MIL)	PREFAB PAV MRK TY C (W)(RR XING)	ELIM EXT PAV MRK & MRKS (24")	PREFORMED CENTERLINE RUMBLE STRIP			
LF	LF	LF	LF	EA	LF	LF			
970	127,000	15,900	14,250			6,180			

NOTES: 1. 24" WHITE STRIPE IS FOR STOP BARS. 2. NO PROFILE MARKINGS FROM US 87 TO STERLING CITY LIMIT SIGN

FOR CONTRACTOR INFORMATION ONLY								
STOP	BARS	SEALER						
LENGTH EA	LOCATION	LENGTH EA	LOCATION					
10'	BIRD LN	18'	KNIGHT CANYON RD					
13'	MUNN RD							
18'	KNIGHT CANYON RD							





29.10.2020

 San Angelo District

 San Angelo District

 San Angelo District

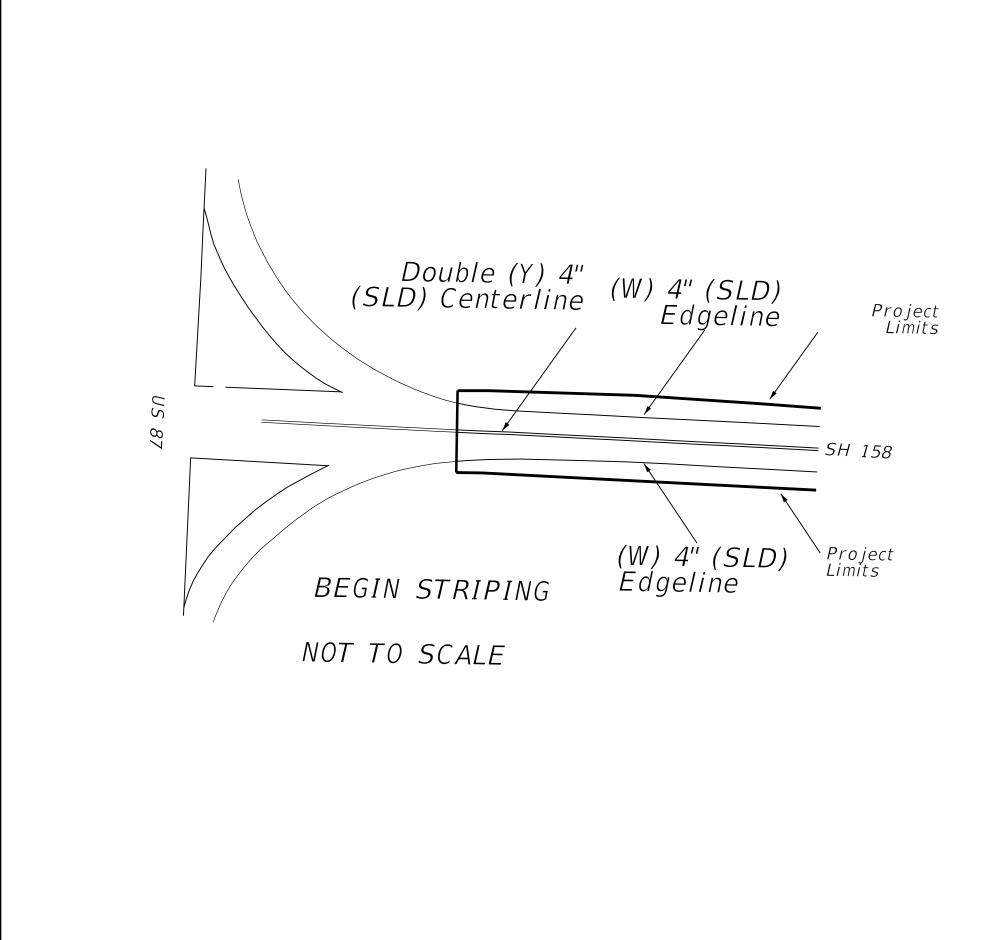
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COUNTY: GLASSCOCK HIGHWAY: RM 2401 INDEX: T LIMITS OF PROJECT: REAGAN COUNTY LINE TO RM 33 LENGTH: 18.066 MILES

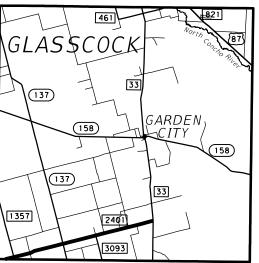
	PAVEMENT MARKING QUANTITIES (THIS SHEET ONLY)								
666-6036	666-6048	666-6138	666-6147	666-6230	666-6300	666-6303	666-6312		
REFL PAV MRK TY I (W) 8"(SLD) (100MIL)	REFL PAV MRK TY I (W) 24"(SLD) (100MIL)	REFL PAV MRK TY I (Y) 8"(SLD) (100MIL)	REFL PAV MRK TY I (Y) 24"(SLD) (100MIL)	PAVEMENT SEALER 24"	RE PM W/RET REQ TY I (W)4"(BRK) (100 MIL)	RE PM W/RET REQ TY I (W)4"(SLD) (100 MIL)	RE PM W/RET REQ TY I (Y)4"(BRK) (100 MIL)		
LF	LF	LF	LF	LF	LF	LF	LF		
	197			93					
666-6315	666-6342	666-6344	666-6345	668-6089	677-6007	6056-6002			
RE PM W/RET REQ TY I (Y)4"(SLD) (100 MIL)	REF PROF PAV MRK TY I (W) 4" (SLD) (100 MIL)	REF PROF PAV MRK TY I (Y) 4" (BRK) (100 MIL)	REF PROF PAV MRK TY I (Y) 4" (SLD) (100 MIL)	PREFAB PAV MRK TY C (W)(RR XING)	ELIM EXT PAV MRK & MRKS (24")	PREFORMED CENTERLINE RUMBLE STRIP			
LF	LF	LF	LF	EA	LF	LF			
	189,300	23,110	6,650			11,470			

NOTES: 1. 24" WHITE STRIPE IS FOR STOP BARS.

FOR CONTRACTOR INFORMATION ONLY								
STOP	' BARS	SEALEF	?					
LENGTH EA	LOCATION	LENGTH EA	LOCATION					
24',24'	RM 1357	12'	CO RD 195					
12'	CO RD 195	10'	CO RD 155					
18',16'	SH 137	25'	COOP RD					
10'	CO RD 155	10'	PAYMASTER RD					
12'	RM 3093	12'	CO RD 125					
25'	COOP RD	12'	CO RD 105					
10'	PAYMASTER RD							
12'	CO RD 125							
12'	CO RD 105							
22'	RM 33							

10/

137) 1357

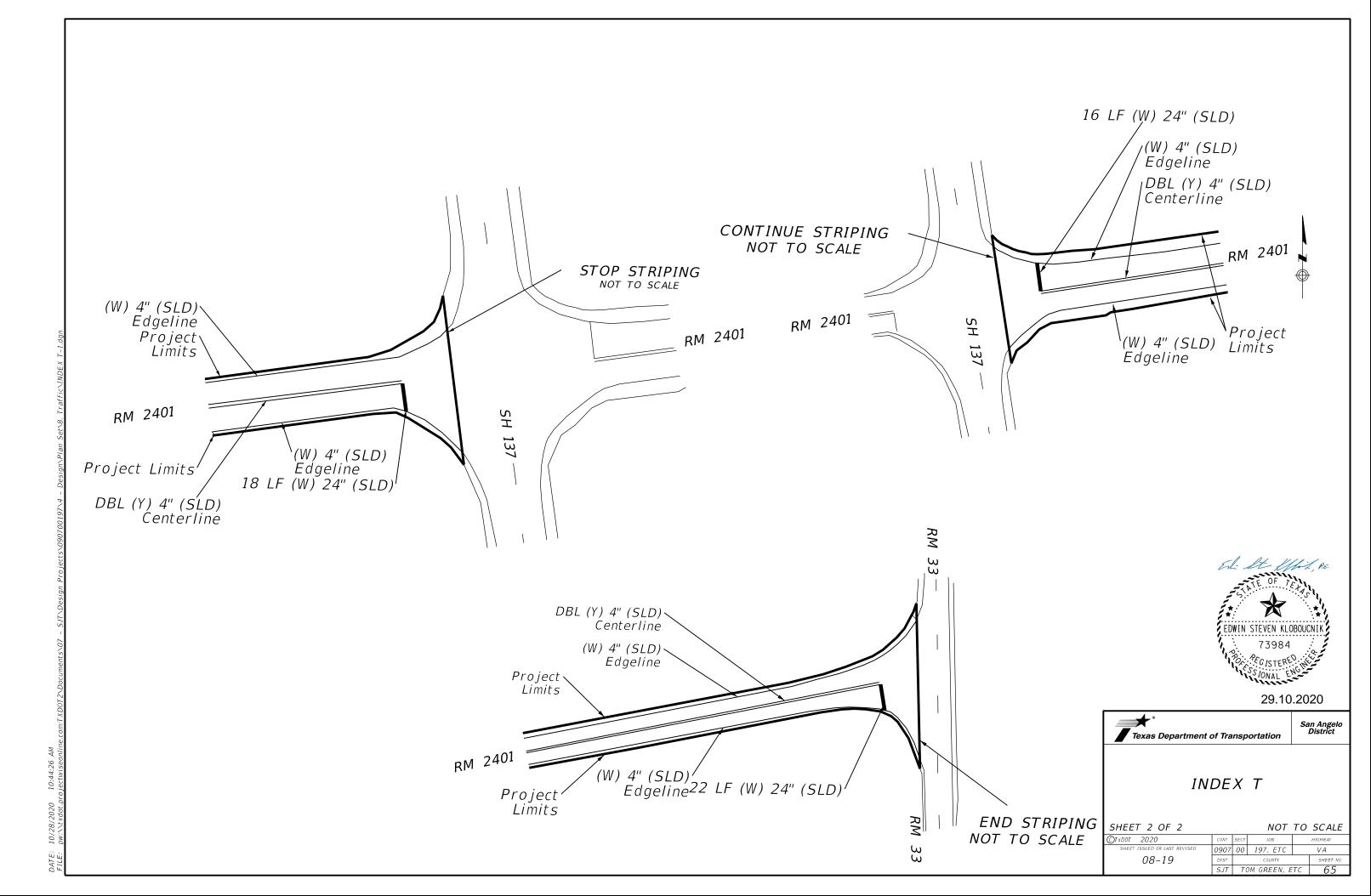




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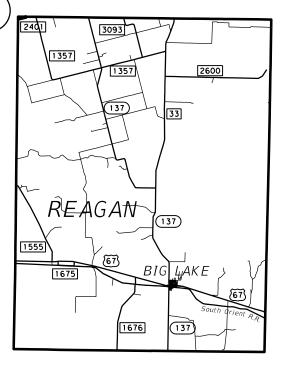
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SJT TOM GREEN, ETC



COUNTY: REAGAN HIGHWAY: RM 2401 INDEX: U LIMITS OF PROJECT: GLASSCOCK COUNTY LINE TO UPTON COUNTY LINE LENGTH: 1.104 MILES U

		PA	VEMENT MARKING QU.	ANTITIES (THIS SHEET	F ONLY)		
666-6036	666-6048	666-6138	666-6147	666-6230	666-6300	666-6303	666-6312
REFL PAV MRK TY I (W) 8"(SLD) (100MIL)	REFL PAV MRK TY I (W) 24"(SLD) (100MIL)	REFL PAV MRK TY I (Y) 8"(SLD) (100MIL)	REFL PAV MRK TY I (Y) 24"(SLD) (100MIL)	PAVEMENT SEALER 24"	RE PM W/RET REQ TY I (W)4"(BRK) (100 MIL)	RE PM W/RET REQ TY I (W)4"(SLD) (100 MIL)	RE PM W/RET REQ TY I (Y)4"(BRK) (100 MIL)
LF	LF	LF	LF	LF	LF	LF	LF
666-6315	666-6342	666-6344	666-6345	668-6089	677-6007	6056-6002	
RE PM W/RET REQ TY I (Y)4"(SLD) (100 MIL)	REF PROF PAV MRK TY I (W) 4" (SLD) (100 MIL)	REF PROF PAV MRK TY I (Y) 4" (BRK) (100 MIL)	REF PROF PAV MRK TY I (Y) 4" (SLD) (100 MIL)	PREFAB PAV MRK TY C (W)(RR XING)	ELIM EXT PAV MRK & MRKS (24")	PREFORMED CENTERLINE RUMBLE STRIP	
LF	LF	LF	LF	EA	LF	LF	
	11,830	1,480				740	





29.10.2020

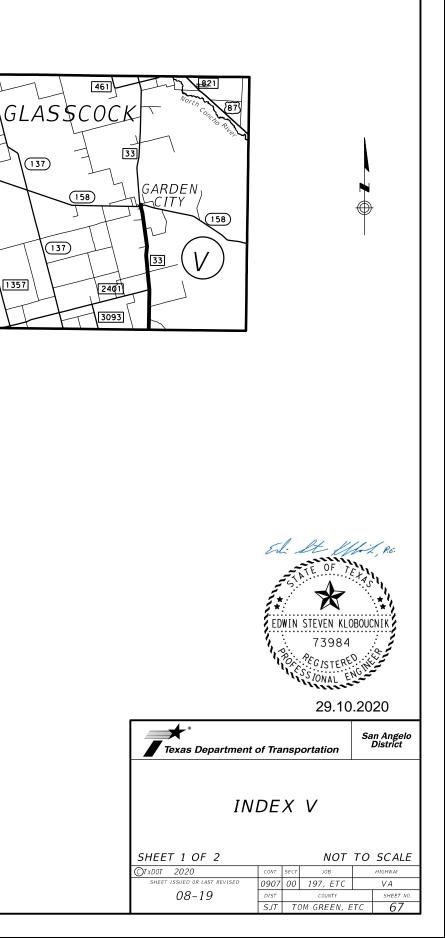
Texas Department of Transportation San Angelo District INDEX U SHEET 1 OF 1 NOT TO SCALE ©TxDOT 2020 JOB HIGHWAY 0907 00 197, ETC VA T ISSUED OR LAS 08-19 sheet no. 66 SJT TOM GREEN, ETC

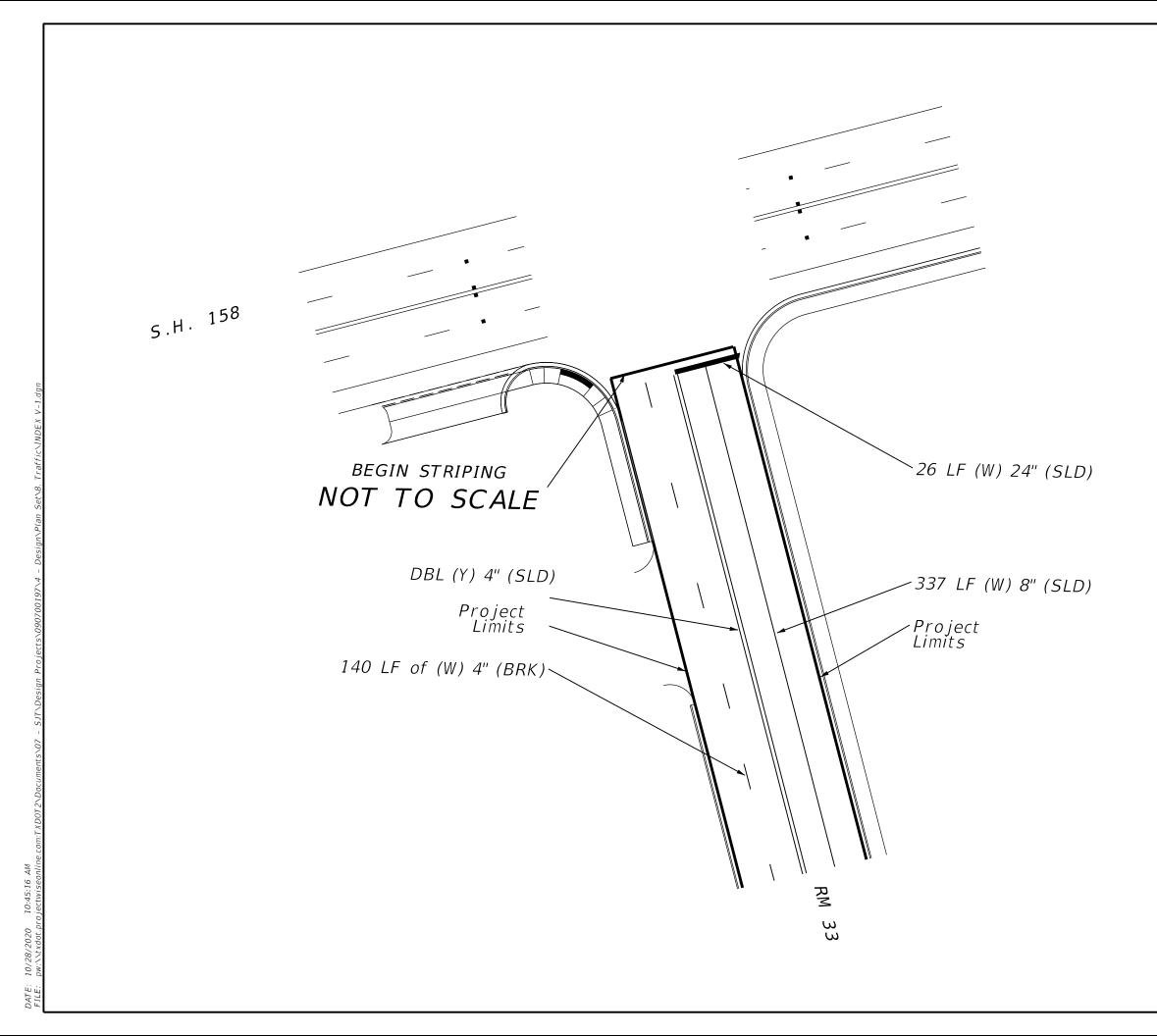
COUNTY: GLASSCOCK HIGHWAY: RM 33 INDEX: V LIMITS OF PROJECT: SH 158 TO REAGAN COUNTY LINE LENGTH: 14.732 MILES

	PAVEMENT MARKING QUANTITIES (THIS SHEET ONLY)								
666-6036	666-6048	666-6138	666-6147	666-6230	666-6300	666-6303	666-6312		
REFL PAV MRK TY I (W) 8"(SLD) (100MIL)	REFL PAV MRK TY I (W) 24"(SLD) (100MIL)	REFL PAV MRK TY I (Y) 8"(SLD) (100MIL)	REFL PAV MRK TY I (Y) 24"(SLD) (100MIL)	PAVEMENT SEALER 24"	RE PM W/RET REQ TY I (W)4"(BRK) (100 MIL)	RE PM W/RET REQ TY I (W)4"(SLD) (100 MIL)	RE PM W/RET REQ TY I (Y)4"(BRK) (100 MIL)		
LF	LF	LF	LF	LF	LF	LF	LF		
337	183			183	140	950	60		
666-6315	666-6342	666-6344	666-6345	668-6089	677-6007	6056-6002			
RE PM W/RET REQ TY I (Y)4"(SLD) (100 MIL)	REF PROF PAV MRK TY I (W) 4" (SLD) (100 MIL)	REF PROF PAV MRK TY I (Y) 4" (BRK) (100 MIL)	REF PROF PAV MRK TY I (Y) 4" (SLD) (100 MIL)	PREFAB PAV MRK TY C (W)(RR XING)	ELIM EXT PAV MRK & MRKS (24")	PREFORMED CENTERLINE RUMBLE STRIP			
LF	LF	LF	LF	EA	LF	LF			
1,710	152,500	18,200	17,150			7,945			

NOTES: 1. 24" WHITE STRIPE IS FOR STOP BARS. 2. 8" WHITE SOLID FOR TURN LANE. 3. NO PROFILE MARKINGS FROM SH 158 TO GARDEN CITY LIMIT SIGN.

FOR	FOR CONTRACTOR INFORMATION ONLY								
STOP	P BARS	SEALER	₹						
LENGTH EA	LOCATION	LENGTH EA	LOCATION						
26'	SH 158	26'	SH 158						
11',12'	HOUSTON ST	11',12'	HOUSTON ST						
10'	PRAIRIE AVE	10'	PRAIRIE AVE						
10',13'	HILL ST	10'	HILL ST						
13'	PECAN ST	13'	PECAN ST						
10'	CO RD 120	10'	CO RD 120						
12'	C0 RD 220	12'	C0 RD 220						
20'	CO RD 170	20'	CO RD 170						
15'	CO RD 270	15'	CO RD 270						
20'	C0 RD 280	20'	CO RD 280						
1 1'	CO RD 290	1 1'	CO RD 290						







 San Angelo District

 San Angelo District

 San Angelo District

 INDEX V

 SHEET 2 OF 2
 NOT TO SCALE

 ©T XDOT 2020
 CONT SECT JOB

 SHEET ISSUED OR LAST REVISED 08-19
 0907 00
 197, ETC
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 015T
 COUNTY
 SHEET NO.
 SJT
 TOM GREEN, ETC
 68

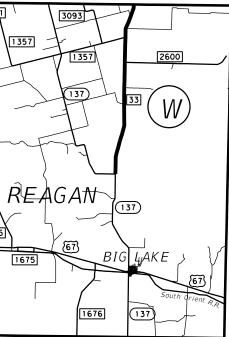
COUNTY: REAGAN HIGHWAY: RM 33 INDEX: W LIMITS OF PROJECT: GLASSCOCK COUNTY LINE TO 200' NORTH OF CONCRETE PAVEMENT AT SH 137 LENGTH: 20.356 MILES

		PA	<u>VEMENT MARKING QU</u>	ANTITIES (THIS SHEET	T ONLY)		
666-6036	666-6048	666-6138	666-6147	666-6230	666-6300	666-6303	666-6312
REFL PAV MRK TY I (W) 8"(SLD) (100MIL)	REFL PAV MRK TY I (W) 24"(SLD) (100MIL)	REFL PAV MRK TY I (Y) 8"(SLD) (100MIL)	REFL PAV MRK TY I (Y) 24"(SLD) (100MIL)	PAVEMENT SEALER 24"	RE PM W/RET REQ TY I (W)4"(BRK) (100 MIL)	RE PM W/RET REQ TY I (W)4"(SLD) (100 MIL)	RE PM W/RET REQ TY I (Y)4"(BRK) (100 MIL)
LF	LF	LF	LF	LF	LF	LF	LF
	120			98	480		
						·	
	CCC C242	666-6344	666-6345	668-6089	677-6007	6056-6002	
666-6315	666-6342	000-0344	000-0343	000-000	077 0007	0050 0002	
666-6315 RE PM W/RET REQ TY I (Y)4"(SLD) (100 MIL)	REF PROF PAV MRK		REF PROF PAV MRK	PREFAB PAV MRK TY C (W)(RR XING)	ELIM EXT PAV MRK & MRKS (24")	PREFORMED CENTERLINE RUMBLE STRIP	
RE PM W/RET REQ TY I (Y)4"(SLD)	REF PROF PAV MRK TY I (W) 4" (SLD) (100	REF PROF PAV MRK TY I (Y) 4" (BRK) (100	REF PROF PAV MRK TY I (Y) 4" (SLD)	PREFAB PAV MRK	ELIM EXT PAV MRK & MRKS	PREFORMED CENTERLINE RUMBLE	

NOTES: 1. 24" WHITE STRIPE IS FOR STOP BARS.

FOR CONTRACTOR INFORMATION ONLY							
STOP	P BARS	SEALER					
LENGTH EA	LOCATION	LENGTH EA	LOCATION				
12'	ANGLE RD	12'	ANGLE RD				
22'	RADIO TOWER RD	22'	RADIO TOWER RD				
28'	28' RM 1357		RM 1357				
22'	RM 2600	24'	STRAWBERRY PATCH RD				
24'	STRAWBERRY PATCH RD	12'	STOUT RD				
12'	STOUT RD						

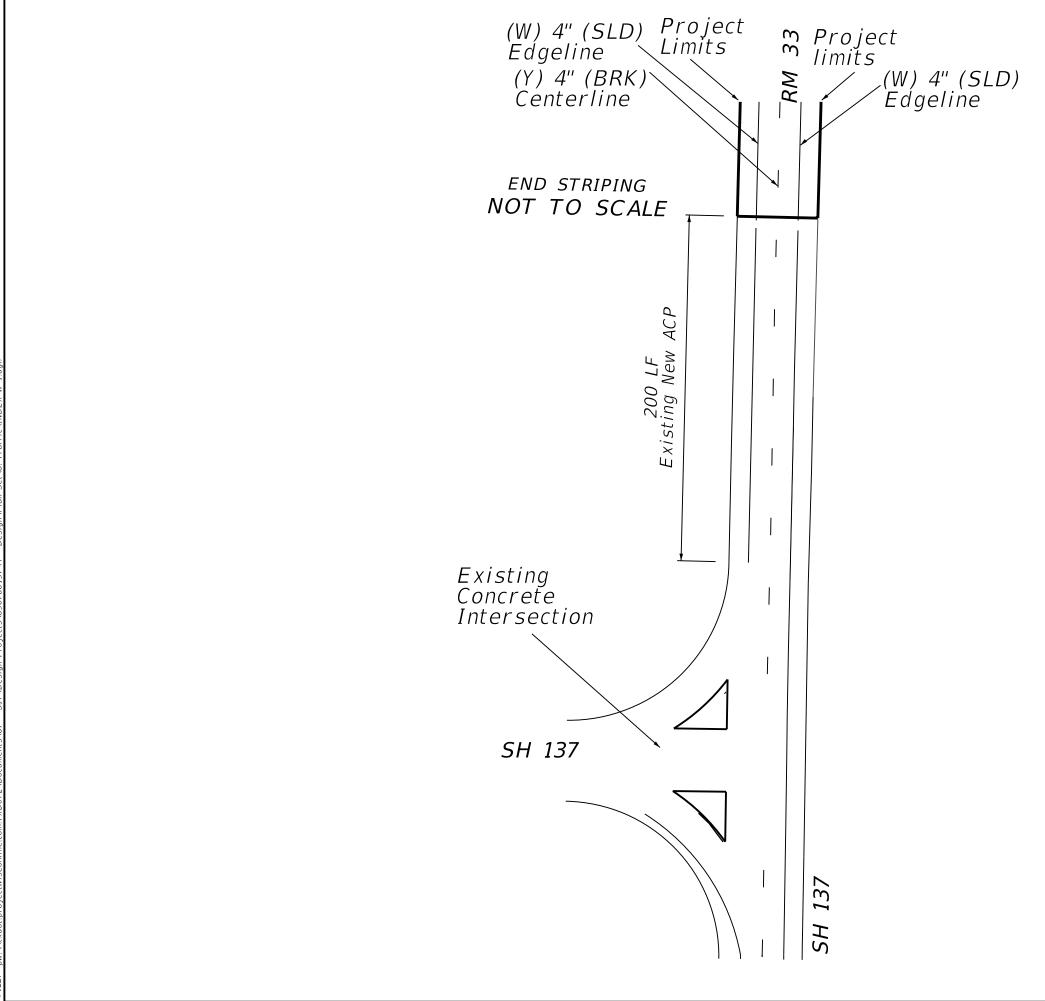




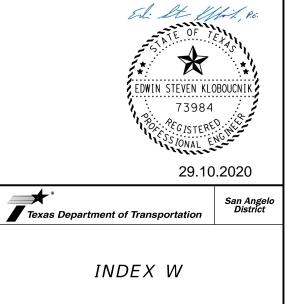


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Texas Department of Transportation San Angelo District INDEX W SHEET 1 OF 2 NOT TO SCALE ©TxDOT 2020 JOB VA 0907 00 197, ETC 08-19 sнеет no. 69 SJT TOM GREEN, ETC



10:45:53 AM 10/28/2020 DATE:



SHEET 2 OF 2 NOT TO SCALE						
©TxDOT 2020	CONT	SECT	JOB		HIGHWAY	
SHEET ISSUED OR LAST REVISED	0907	00	197, ETC		VA	
08-19	DIST		COUNTY	SHEET NO.		
	SJT	T	OM G <mark>REEN</mark> , E	TC	70	

COUNTY: REAGAN HIGHWAY: SH 137 INDEX: X LIMITS OF PROJECT: 0.6 MILES SOUTH OF US 67 TO CROCKETT COUNTY LINE LENGTH: 7.136 MILES

		PA	AVEMENT MARKING QUA	ANTITIES (THIS SHEE	T ONLY)		
666-6036	666-6048	666-6138	666-6147	666-6230	666-6300	666-6303	666-6312
REFL PAV MRK TY I (W) 8"(SLD) (100MIL)	REFL PAV MRK TY I (W) 24"(SLD) (100MIL)	REFL PAV MRK TY I (Y) 8"(SLD) (100MIL)	REFL PAV MRK TY I (Y) 24"(SLD) (100MIL)	PAVEMENT SEALER 24"	RE PM W/RET REQ TY I (W)4"(BRK) (100 MIL)	RE PM W/RET REQ TY I (W)4"(SLD) (100 MIL)	RE PM W/RET REQ TY I (Y)4"(BRK) (100 MIL)
LF	LF	LF	LF	LF	LF	LF	LF
,	10			10	310		
	10	, j	· · · · · · · · · · · · · · · · · · ·	10	510		
	10			10	510		
666-6315	666-6342	666-6344	666-6345	668-6089	677-6007	6056-6002	
666-6315 RE PM W/RET REQ TY I (Y)4"(SLD) (100 MIL)		REF PROF PAV MRK	REF PROF PAV MRK			6056-6002 PREFORMED CENTERLINE RUMBLE STRIP	
RE PM W/RET REQ TY I (Y)4"(SLD)	666-6342 REF PROF PAV MRK TY I (W) 4" (SLD) (100	REF PROF PAV MRK TY I (Y) 4" (BRK) (100	REF PROF PAV MRK TY I (Y) 4" (SLD)	668-6089 PREFAB PAV MRK	677-6007 ELIM EXT PAV MRK & MRKS	PREFORMED CENTERLINE RUMBLE	

NOTES: 1. 24" WHITE STRIPE IS FOR STOP BARS.

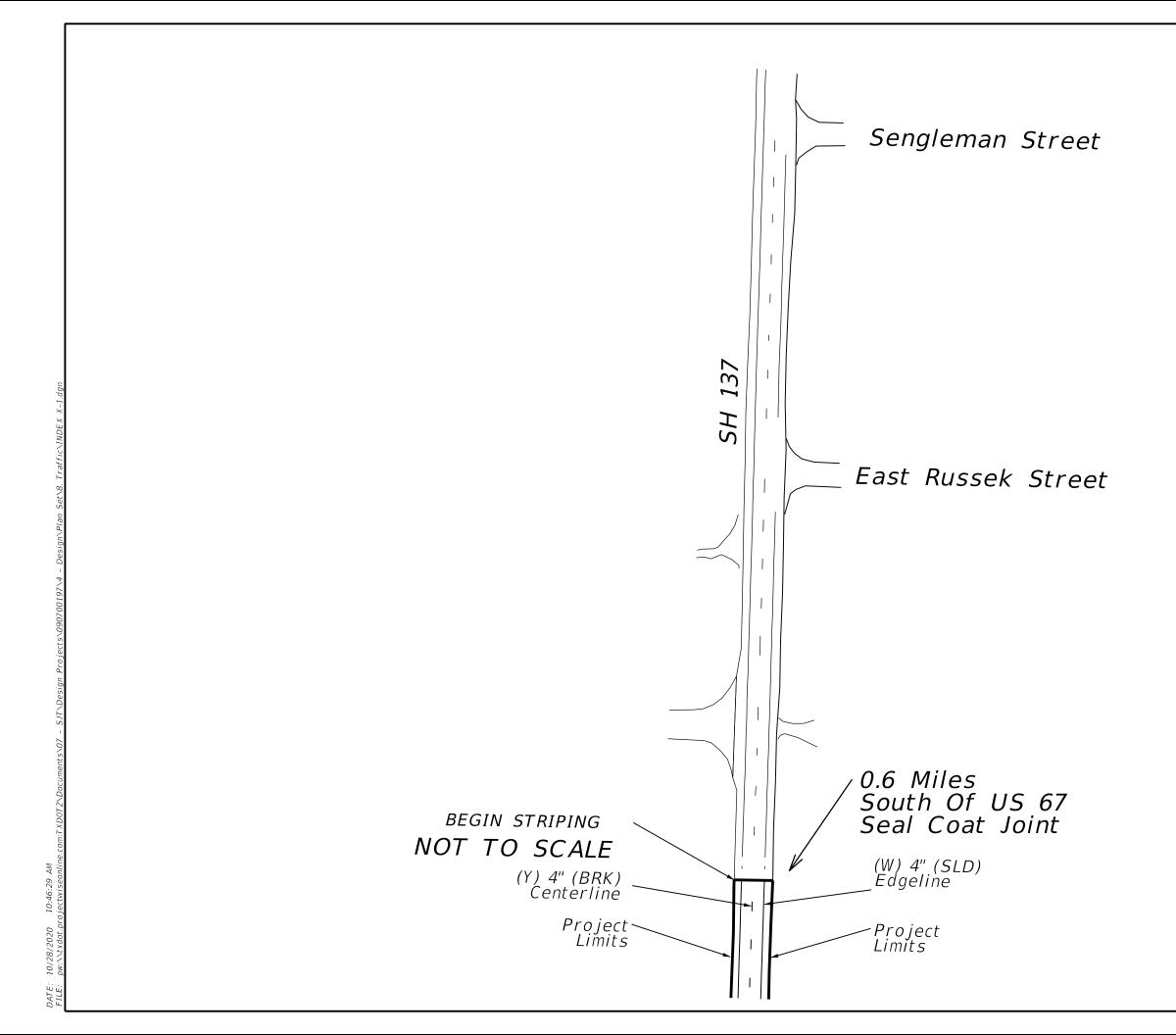
FOF	FOR CONTRACTOR INFORMATION ONLY							
ST	STOP BARS SEALER							
LENGTH E	A LOCAT	TION LE	ENGTH EA	LOCATION				
10'	10' CHICO LN		10'	CHICO LN				





29.10.2020

Texas Department of Transportation San Angelo District INDEX X SHEET 1 OF 2 NOT TO SCALE ©TxDOT 2020 JOB 0907 00 197, ETC VA 08-19 sнеет NC 71 SJT TOM GREEN, ETC





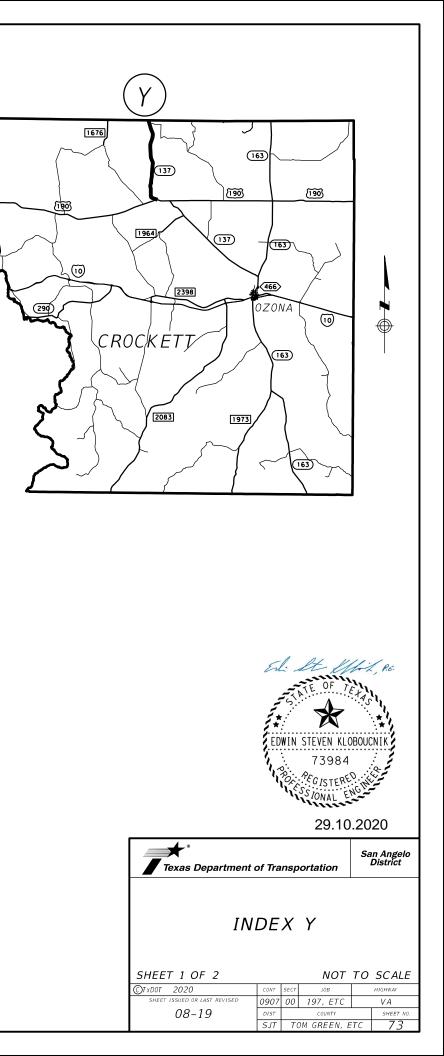
SHEET 2 OF 2			NOT	то	SCALE
©TxDOT 2020	CONT	SECT	JOB		HIGHWAY
SHEET ISSUED OR LAST REVISED	0907	00	197, ETC		VA
08-19	DIST		COUNTY		SHEET NO.
	SJT	T	OM GREEN, E	TC	72

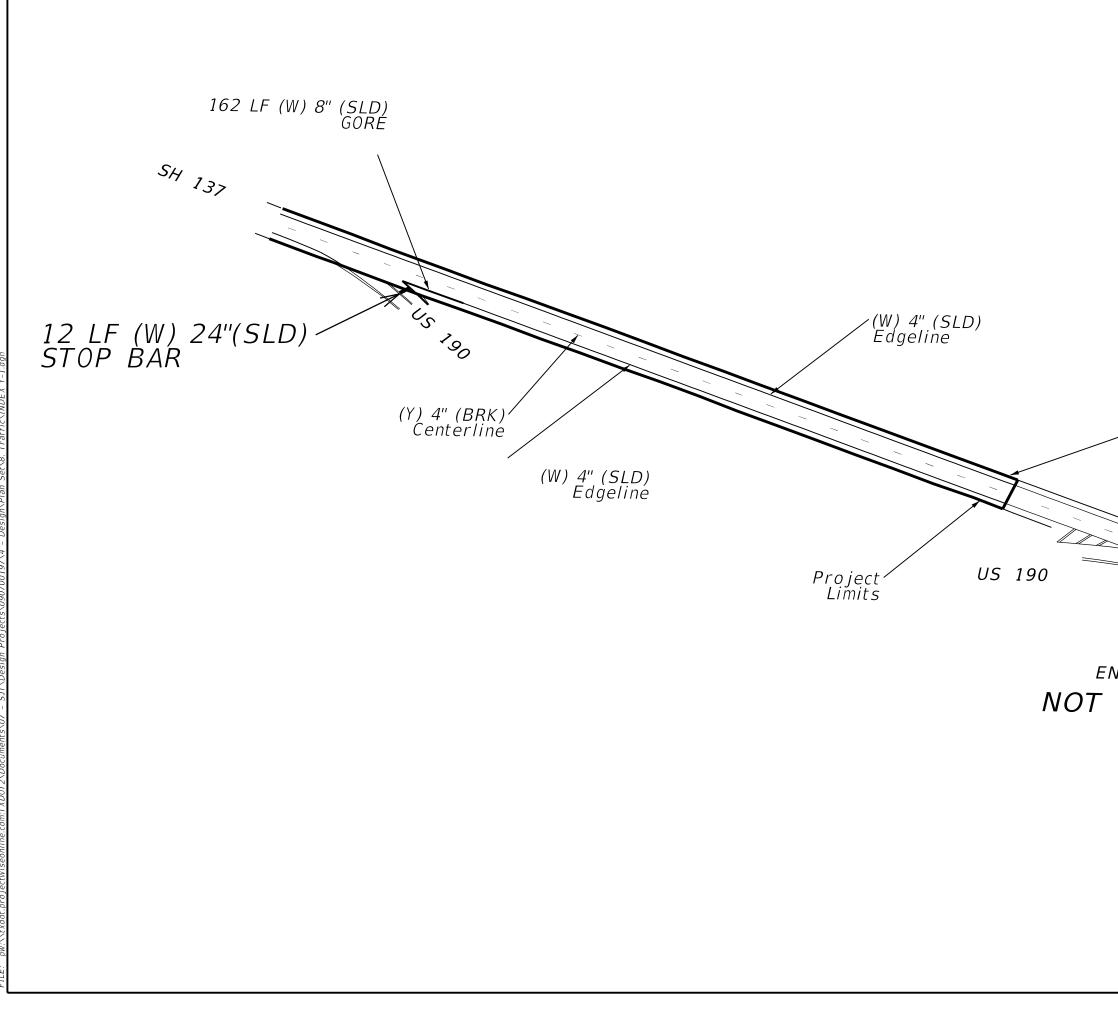
COUNTY: CROCKETT HIGHWAY: SH 137 INDEX: Y LIMITS OF PROJECT: REAGAN COUNTY LINE TO US 190 LENGTH: 12.430 MILES

	PAVEMENT MARKING QUANTITIES (THIS SHEET ONLY)							
666-6036	666-6048	666-6138	666-6147	666-6230	666-6300	666-6303	666-6312	
REFL PAV MRK TY I (W) 8"(SLD) (100MIL)	REFL PAV MRK TY I (W) 24"(SLD) (100MIL)	REFL PAV MRK TY I (Y) 8"(SLD) (100MIL)	REFL PAV MRK TY I (Y) 24"(SLD) (100MIL)	PAVEMENT SEALER 24"	RE PM W/RET REQ TY I (W)4"(BRK) (100 MIL)	RE PM W/RET REQ TY I (W)4"(SLD) (100 MIL)	RE PM W/RET REQ TY I (Y)4"(BRK) (100 MIL)	
LF	LF	LF	LF	LF	LF	LF	LF	
162	29				200			
666-6315	666-6342	666-6344	666-6345	668-6089	677-6007	6056-6002		
RE PM W/RET REQ TY I (Y)4"(SLD) (100 MIL)	REF PROF PAV MRK TY I (W) 4" (SLD) (100 MIL)	REF PROF PAV MRK TY I (Y) 4" (BRK) (100 MIL)	REF PROF PAV MRK TY I (Y) 4" (SLD) (100 MIL)	PREFAB PAV MRK TY C (W)(RR XING)	ELIM EXT PAV MRK & MRKS (24")	PREFORMED CENTERLINE RUMBLE STRIP		
LF	LF	LF	LF	EA	LF	LF		
	131,200	15,440	21,100			5,970		

NOTES: 1. 24" WHITE STRIPE IS FOR STOP BARS. 2. 8" WHITE SOLID IS FOR GORE.

FOR CONTRACTOR INFORMATION ONLY								
STOP	' BARS	SEALEF	R					
LENGTH EA	LOCATION	LENGTH EA	LOCATION					
17'	C0 RD 205							
12'	US 190							





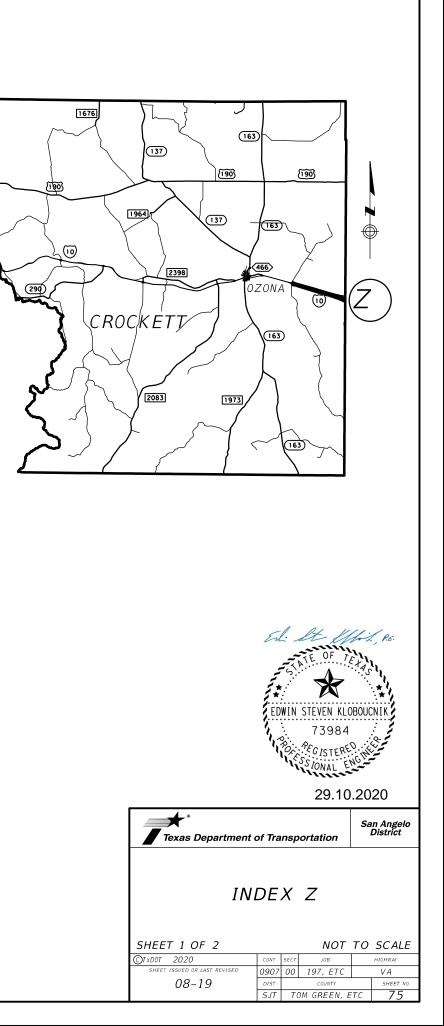
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SHEET ISSUED OR LAST REVISED 0907 00 19. 08-19 DIST	7, ETC VA
SJT TOM G	REEN, ETC 74

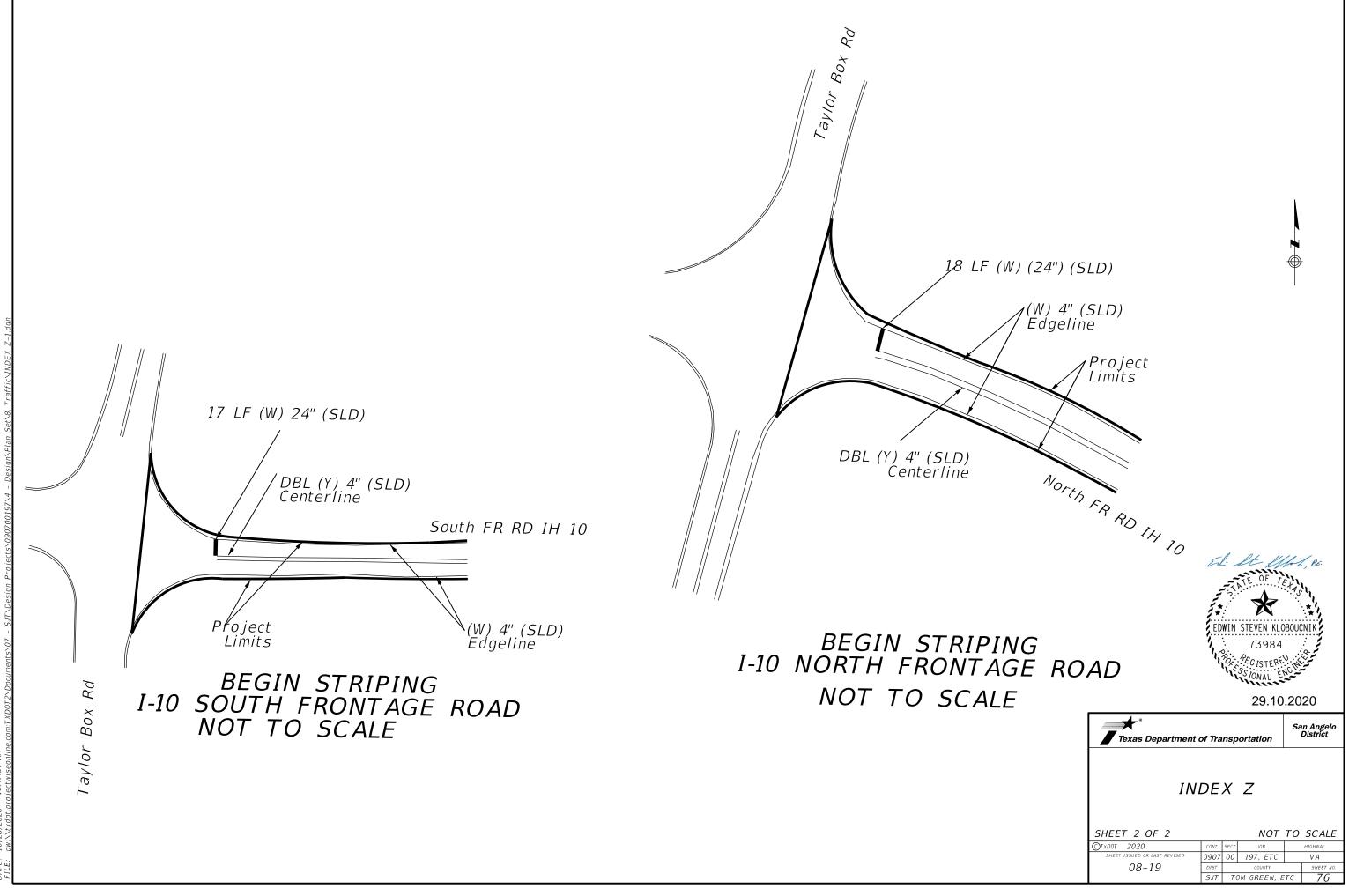
COUNTY: CROCKETT HIGHWAY: IH 10 FRONTAGE ROADS INDEX: Z LIMITS OF PROJECT: TAYLOR BOX RD TO SUTTON COUNTY LINE LENGTH: 16.280 MILES

PAVEMENT MARKING QUANTITIES (THIS SHEET ONLY)								
666-6036	666-6048	666-6138	666-6147	666-6230	666-6300	666-6303	666-6312	
REFL PAV MRK TY I (W) 8"(SLD) (100MIL)	REFL PAV MRK TY I (W) 24"(SLD) (100MIL)	REFL PAV MRK TY I (Y) 8"(SLD) (100MIL)	REFL PAV MRK TY I (Y) 24"(SLD) (100MIL)	PAVEMENT SEALER 24"	RE PM W/RET REQ TY I (W)4"(BRK) (100 MIL)	RE PM W/RET REQ TY I (W)4"(SLD) (100 MIL)	RE PM W/RET REQ TY I (Y)4"(BRK) (100 MIL)	
LF	LF	LF	LF	LF	LF	LF	LF	
	76							
666-6315	666-6342	666-6344	666-6345	668-6089	677-6007	6056-6002		
RE PM W/RET REQ TY I (Y)4"(SLD) (100 MIL)	REF PROF PAV MRK TY I (W) 4" (SLD) (100 MIL)	REF PROF PAV MRK TY I (Y) 4" (BRK) (100 MIL)	REF PROF PAV MRK TY I (Y) 4" (SLD) (100 MIL)	PREFAB PAV MRK TY C (W)(RR XING)	ELIM EXT PAV MRK & MRKS (24")	PREFORMED CENTERLINE RUMBLE STRIP		
LF	LF	LF	LF	EA	LF	LF		
	139,000	18,690	41,200			6,590		

NOTES: 1. 24" WHITE STRIPE IS FOR STOP BARS.

FOR CONTRACTOR INFORMATION ONLY								
STOP	BARS	SEALER						
LENGTH EA	LOCATION	LENGTH EA	LOCATION					
17'	S TAYLOR BOX RD							
21'	S UNDER PASS							
18'	N TAYLOR BOX RD							
20'	N UNDER PASS							



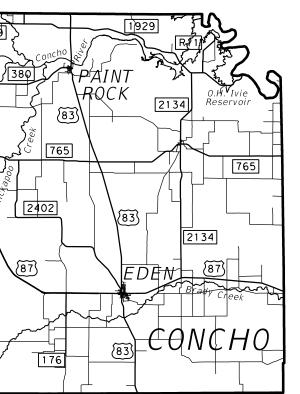


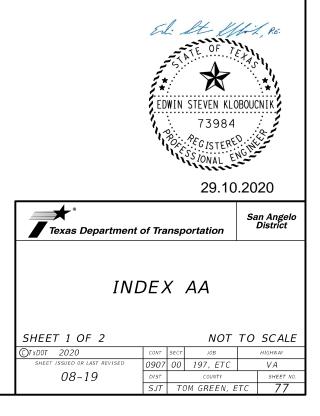
COUNTY: CONCHO HIGHWAY: FM 381 INDEX: AA LIMITS OF PROJECT: RUNNELS COUNTY LINE TO SL 577 LENGTH: 18.171 MILES

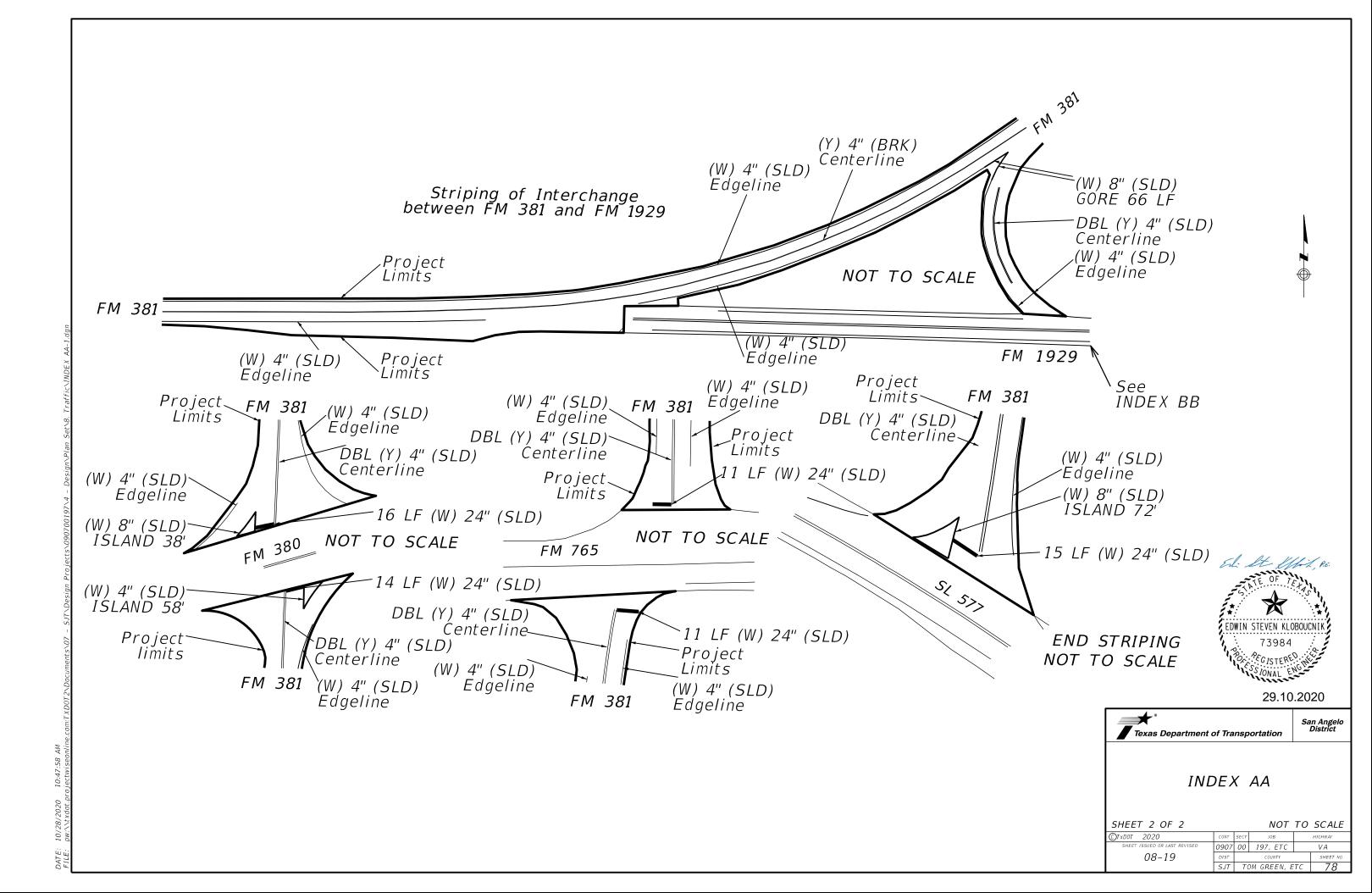
		PA	AVEMENT MARKING QU	ANTITIES (THIS SHEET	T ONLY)		
666-6036	666-6048	666-6138	666-6147	666-6230	666-6300	666-6303	666-6312
REFL PAV MRK TY I (W) 8"(SLD) (100MIL)	REFL PAV MRK TY I (W) 24"(SLD) (100MIL)	REFL PAV MRK TY I (Y) 8"(SLD) (100MIL)	REFL PAV MRK TY I (Y) 24"(SLD) (100MIL)	PAVEMENT SEALER 24"	RE PM W/RET REQ TY I (W)4"(BRK) (100 MIL)	RE PM W/RET REQ TY I (W)4"(SLD) (100 MIL)	RE PM W/RET REQ TY I (Y)4"(BRK) (100 MIL)
LF	LF	LF	LF	LF	LF	LF	LF
234	369			20		4,990	350
666-6315	666-6342	666-6344	666-6345	668-6089	677-6007	6056-6002	
RE PM W/RET REQ TY I (Y)4"(SLD) (100 MIL)	REF PROF PAV MRK TY I (W) 4" (SLD) (100 MIL)	REF PROF PAV MRK TY I (Y) 4" (BRK) (100 MIL)	REF PROF PAV MRK TY I (Y) 4" (SLD) (100 MIL)	PREFAB PAV MRK TY C (W)(RR XING)	ELIM EXT PAV MRK & MRKS (24")	PREFORMED CENTERLINE RUMBLE STRIP	
	I F	LF	LF	EA	LF	LF	
LF							

NOTES: 1. 24" WHITE STRIPE IS FOR STOP BARS. 2. 8" WHITE SOLID IS FOR ISLANDS AND GORES. 3. NO PROFILE MARKINGS FROM EOLA TOWN LIMIT SIGN TO EOLA TOWN LIMIT SIGN.

FOR CONTRACTOR INFORMATION ONLY								
BARS	STOP	BARS						
LOCATION	LENGTH EA	LOCATION						
CO RD 1879	10',10'	CO RD 5502						
FM 1929	14',14'	CO RD 5500						
CO RD 1884	25',11'	CO RD 1482						
FM 380	13'	CO RD 1388						
CO RD 1640	13'	CO RD 1386						
CO RD 1568	15'	SL 577						
CO RD 1584	SEALEF	2						
CO RD 1520	LENGTH EA	LOCATION						
FM 765	10',10'	C0 RD 5502						
	BARS LOCATION CO RD 1879 FM 1929 CO RD 1884 FM 380 CO RD 1640 CO RD 1568 CO RD 1584 CO RD 1520	BARS STOP LOCATION LENGTH EA CO RD 1879 10',10' FM 1929 14',14' CO RD 1884 25',11' FM 380 13' CO RD 1640 13' CO RD 1568 15' CO RD 1584 SEALEH CO RD 1520 LENGTH EA						







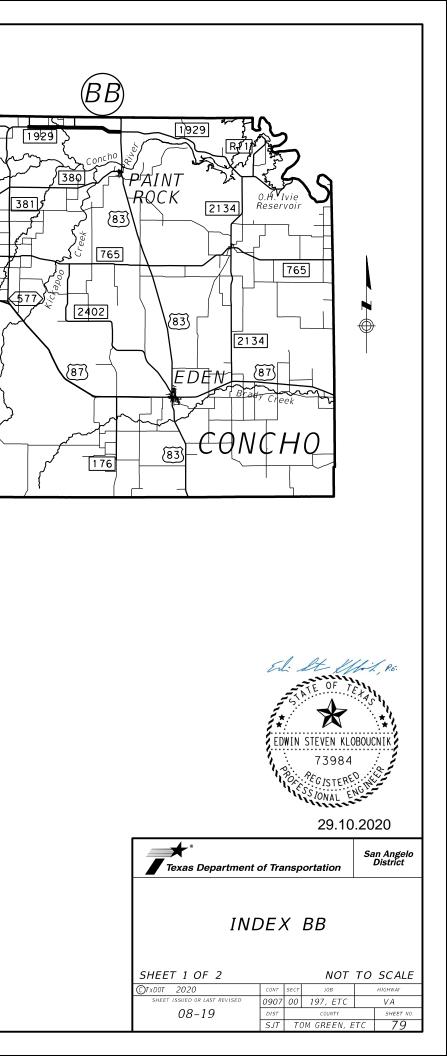
COUNTY: CONCHO HIGHWAY: FM 1929 INDEX: BB LIMITS OF PROJECT: FM 381 TO US 83 LENGTH: 8.391 MILES

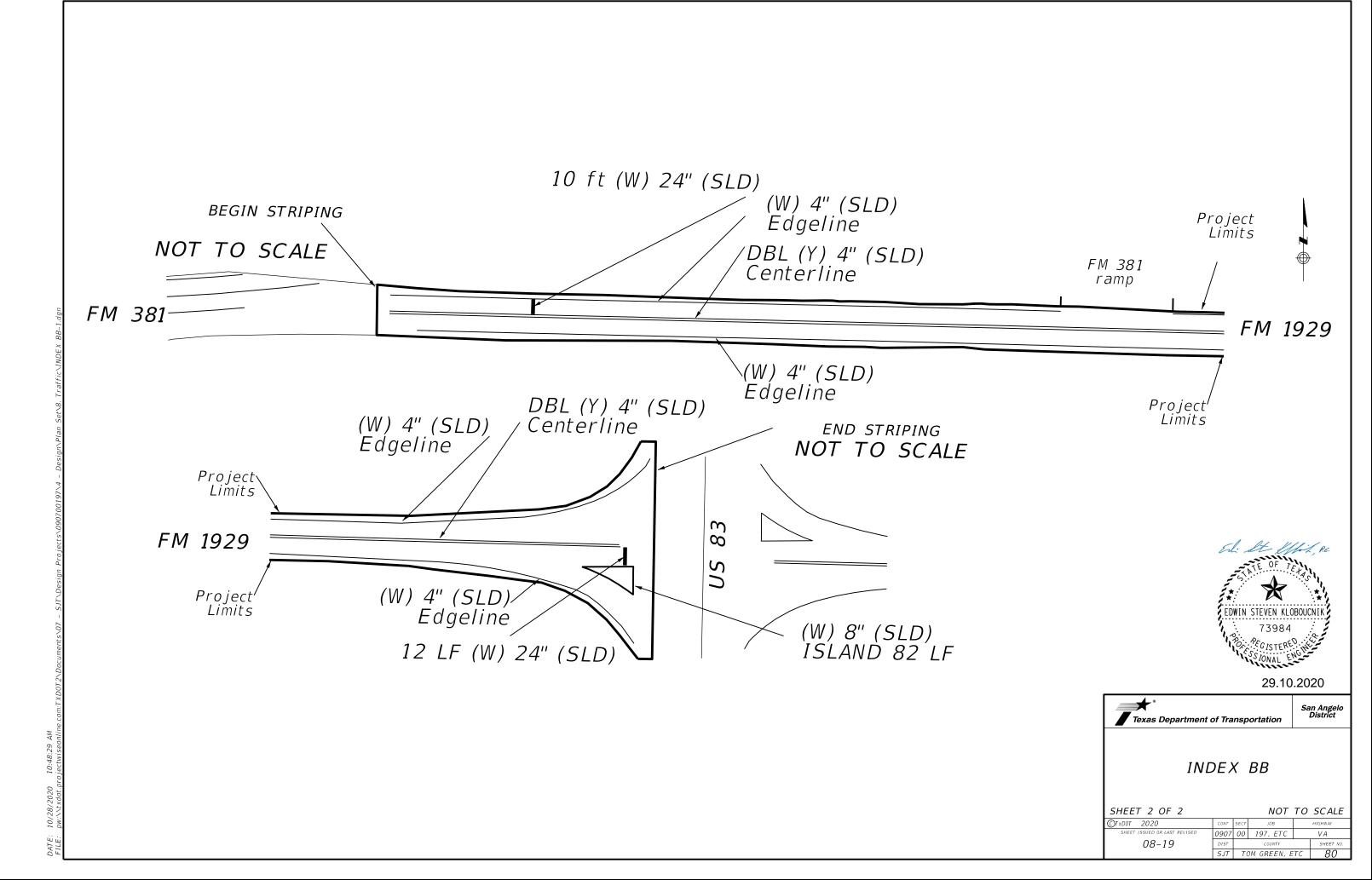
PAVEMENT MARKING QUANTITIES (THIS SHEET ONLY)							
666-6036	666-6048	666-6138	666-6147	666-6230	666-6300	666-6303	666-6312
REFL PAV MRK TY I (W) 8"(SLD) (100MIL)	REFL PAV MRK TY I (W) 24"(SLD) (100MIL)	REFL PAV MRK TY I (Y) 8"(SLD) (100MIL)	REFL PAV MRK TY I (Y) 24"(SLD) (100MIL)	PAVEMENT SEALER 24"	RE PM W/RET REQ TY I (W)4"(BRK) (100 MIL)	RE PM W/RET REQ TY I (W)4"(SLD) (100 MIL)	RE PM W/RET REQ TY I (Y)4"(BRK) (100 MIL)
LF	LF	LF	LF	LF	LF	LF	LF
82	82						
666-6315	666-6342	666-6344	666-6345	668-6089	677-6007	6056-6002	
RE PM W/RET REQ TY I (Y)4"(SLD) (100 MIL)	REF PROF PAV MRK TY I (W) 4" (SLD) (100 MIL)	REF PROF PAV MRK TY I (Y) 4" (BRK) (100 MIL)	REF PROF PAV MRK TY I (Y) 4" (SLD) (100 MIL)	PREFAB PAV MRK TY C (W)(RR XING)	ELIM EXT PAV MRK & MRKS (24")	PREFORMED CENTERLINE RUMBLE STRIP	
LF	LF	LF	LF	EA	LF	LF	
	88,100	8,690	34,200			2,400	

NOTES: 1. 24" WHITE STRIPE IS FOR STOP BARS. 2. 8" WHITE SOLID IS FOR ISLAND.

FOR CONTRACTOR INFORMATION ONLY								
STOP	' BARS	SEALEF	?					
LENGTH EA	LOCATION	LENGTH EA	LOCATION					
10'	FM 381							
10'	CO RD 1867							
16'	CO RD 1865							
16'	CO RD 1861							
18'	CO RD 1855							
12'	US 83							

10/





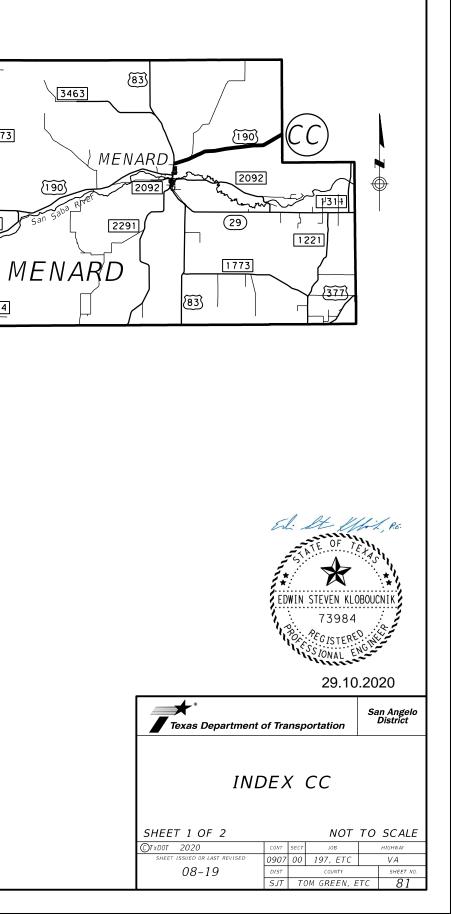
COUNTY: MENARD HIGHWAY: US 190 INDEX: CC LIMITS OF PROJECT: US 83 TO MCCULLOCH COUNTY LINE LENGTH: 11.174 MILES

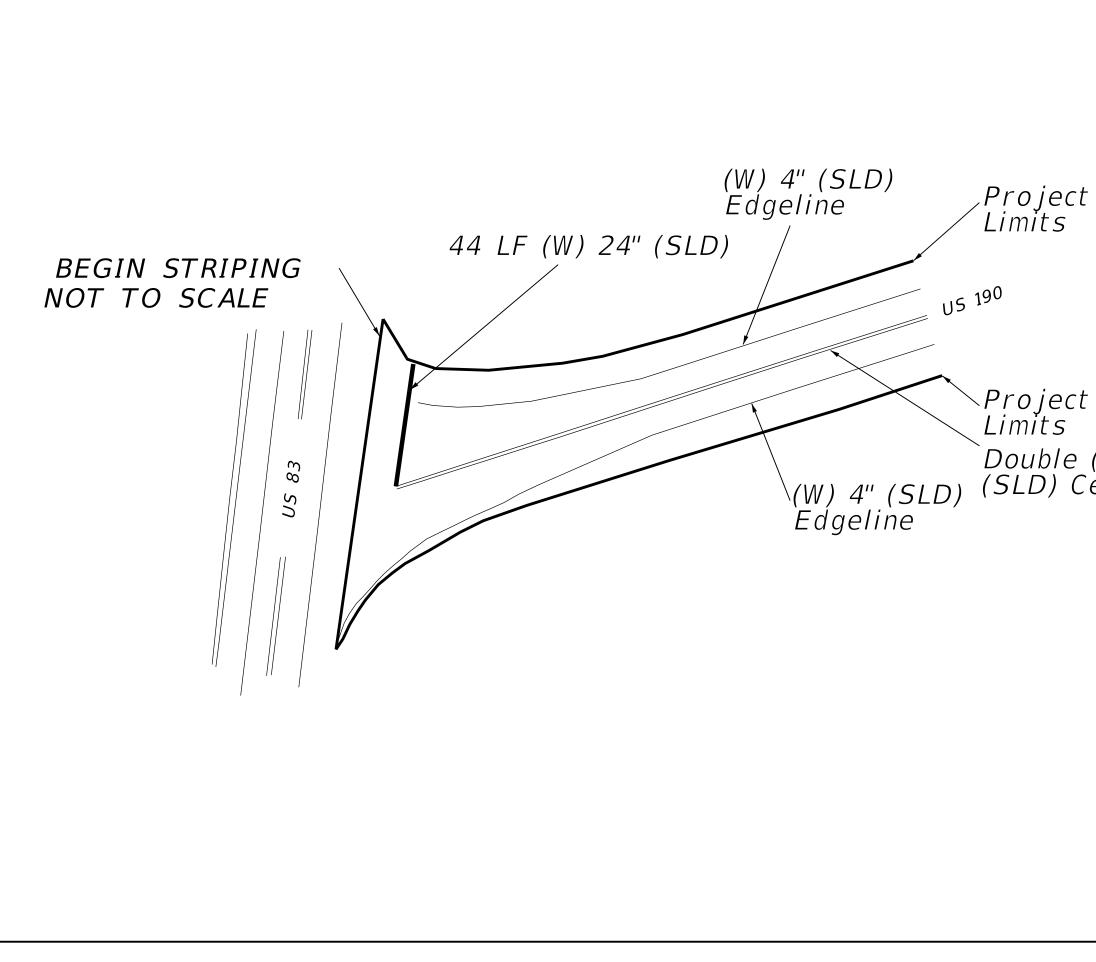
		PA	VEMENT MARKING QU.	ANTITIES (THIS SHEE	T ONLY)		
666-6036	666-6048	666-6138	666-6147	666-6230	666-6300	666-6303	666-6312
REFL PAV MRK TY I (W) 8"(SLD) (100MIL)	REFL PAV MRK TY I (W) 24"(SLD) (100MIL)	REFL PAV MRK TY I (Y) 8"(SLD) (100MIL)	REFL PAV MRK TY I (Y) 24"(SLD) (100MIL)	PAVEMENT SEALER 24"	RE PM W/RET REQ TY I (W)4"(BRK) (100 MIL)	RE PM W/RET REQ TY I (W)4"(SLD) (100 MIL)	RE PM W/RET REQ TY I (Y)4"(BRK) (100 MIL)
LF	LF	LF	LF	LF	LF	LF	LF
	54					1,300	
					•	·	
666-6315	666-6342	666-6344	666-6345	668-6089	677-6007	6056-6002	
RE PM W/RET REQ TY I (Y)4"(SLD) (100 MIL)		REF PROF PAV MRK TY I (Y) 4" (BRK) (100 MIL)	REF PROF PAV MRK TY I (Y) 4" (SLD) (100 MIL)	PREFAB PAV MRK TY C (W)(RR XING)	ELIM EXT PAV MRK & MRKS (24")	PREFORMED CENTERLINE RUMBLE STRIP	
, ,			l F	EA	I F	1 F	
LF	LF	LF	LF	LA	LI	LI	

NOTES: 1. 24" WHITE STRIPE IS FOR STOP BARS. 2. NO PROFILE MARKINGS FROM US 83 TO 60 MPH SIGN.

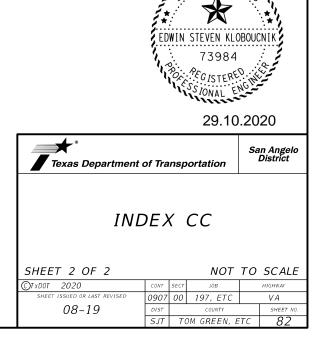
FOR CONTRACTOR INFORMATION ONLY							
STOP	BARS	SEALEF	R				
LENGTH EA	LOCATION	LENGTH EA	LOCATION				
44'	US 83						
10'	CALLAN LN						

2873 864 1674





Double (Y) 4" (SLD) Centerline



al. It Ille

COUNTY: MENARD HIGHWAY: FM 1311 INDEX: DD LIMITS OF PROJECT: MCCULLOCH COUNTY LINE TO SH 29 LENGTH: 4.970 MILES

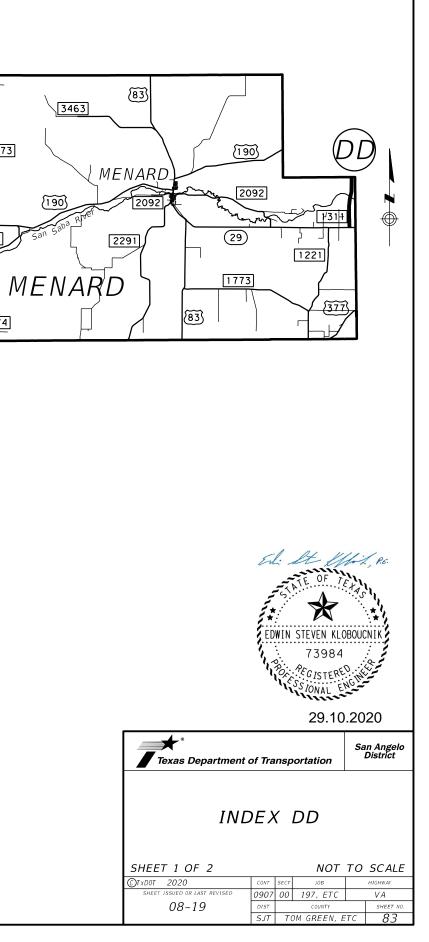
	PAVEMENT MARKING QUANTITIES (THIS SHEET ONLY)									
666-6036	666-6048	666-6138	666-6147	666-6230	666-6300	666-6303	666-6312			
REFL PAV MRK TY I (W) 8"(SLD) (100MIL)	REFL PAV MRK TY I (W) 24"(SLD) (100MIL)	REFL PAV MRK TY I (Y) 8"(SLD) (100MIL)	REFL PAV MRK TY I (Y) 24"(SLD) (100MIL)	PAVEMENT SEALER 24"	RE PM W/RET REQ TY I (W)4"(BRK) (100 MIL)	RE PM W/RET REQ TY I (W)4"(SLD) (100 MIL)	RE PM W/RET REQ TY I (Y)4"(BRK) (100 MIL)			
LF	LF	LF	LF	LF	LF	LF	LF			
70	12									
666-6315	666-6342	666-6344	666-6345	668-6089	677-6007	6056-6002				
RE PM W/RET REQ TY I (Y)4"(SLD) (100 MIL)	REF PROF PAV MRK TY I (W) 4" (SLD) (100 MIL)		REF PROF PAV MRK TY I (Y) 4" (SLD) (100 MIL)	PREFAB PAV MRK TY C (W)(RR XING)	ELIM EXT PAV MRK & MRKS (24")	PREFORMED CENTERLINE RUMBLE STRIP				
LF	LF	LF	LF	EA	LF	LF				
	500	5,480	20,400			1,290				

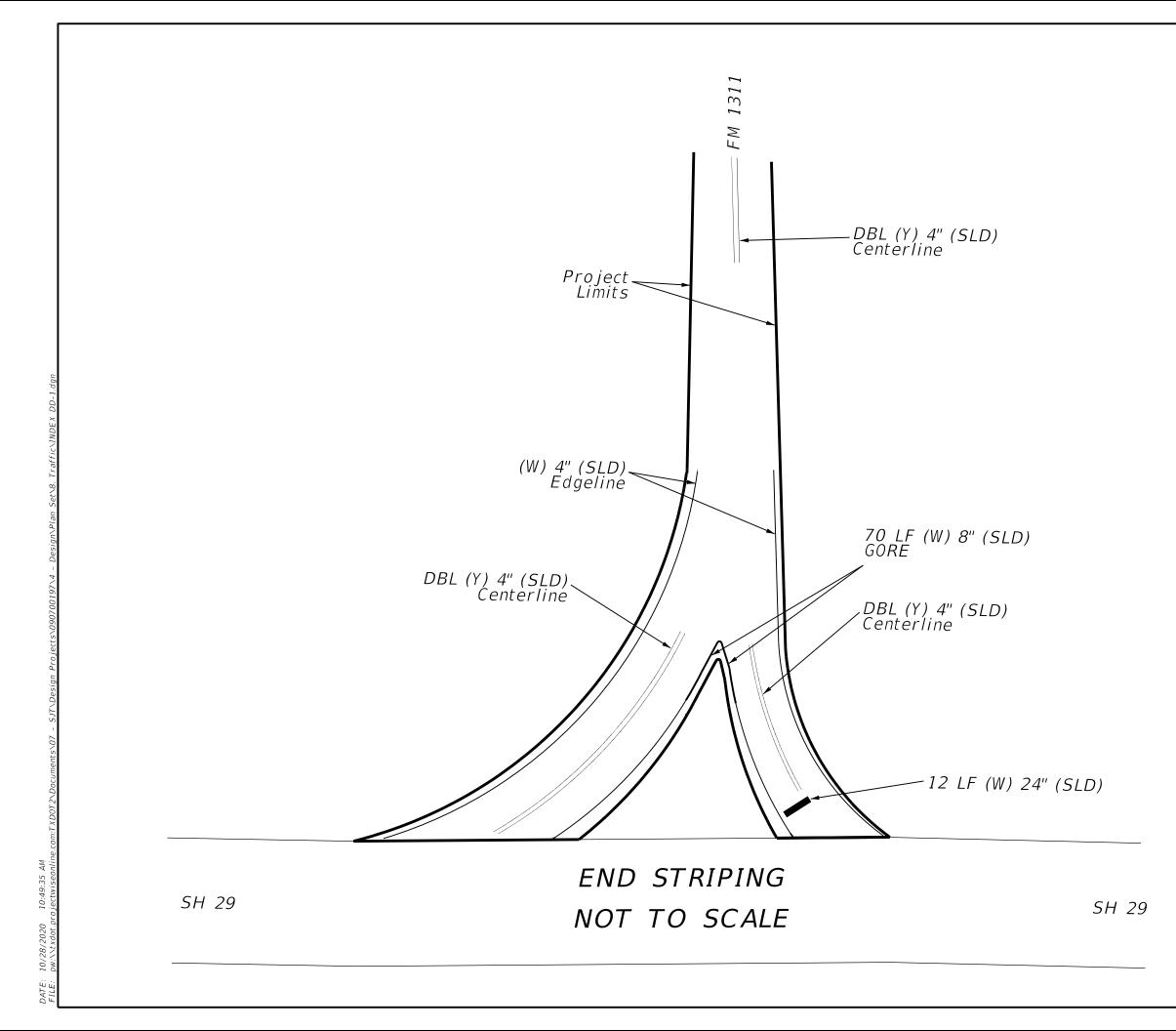
NOTES: 1. 24" WHITE STRIPE IS FOR STOP BARS. 2. 8" WHATE SOILD IS FOR A GORE.

FOR	FOR CONTRACTOR INFORMATION ONLY							
STOP	' BARS	SEALEF	R					
LENGTH EA	LOCATION	LENGTH EA	LOCATION					
12'	12' SH 29							

864

1674







 San Angelo District

 San Angelo District

 San Angelo District

 INDEX DD

 SHEET 2 OF 2
 NOT TO SCALE

 ©TRDOT 2020
 CONT SECT JOB

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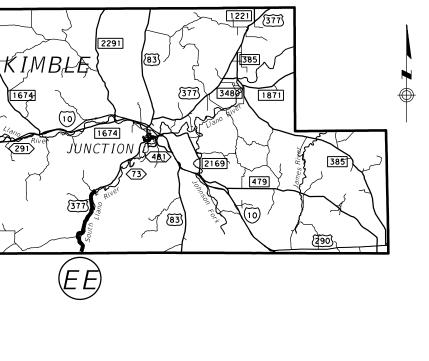
COUNTY: KIMBLE HIGHWAY: US 377 INDEX: EE LIMITS OF PROJECT: 9.6 MILES SOUTH OF SL 481 TO EDWARDS COUNTY LINE LENGTH: 9.694 MILES

		PA	VEMENT MARKING QU	ANTITIES (THIS SHEET	T ONLY)		
666-6036	666-6048	666-6138	666-6147	666-6230	666-6300	666-6303	666-6312
REFL PAV MRK TY I (W) 8"(SLD) (100MIL)	REFL PAV MRK TY I (W) 24"(SLD) (100MIL)	REFL PAV MRK TY I (Y) 8"(SLD) (100MIL)	REFL PAV MRK TY I (Y) 24"(SLD) (100MIL)	PAVEMENT SEALER 24"	RE PM W/RET REQ TY I (W)4"(BRK) (100 MIL)	RE PM W/RET REQ TY I (W)4"(SLD) (100 MIL)	RE PM W/RET REQ TY I (Y)4"(BRK) (100 MIL)
LF	LF	LF	LF	LF	LF	LF	LF
	48						
666-6315	666-6342	666-6344	666-6345	668-6089	677-6007	6056-6002	
RE PM W/RET REQ TY I (Y)4"(SLD) (100 MIL)	REF PROF PAV MRK TY I (W) 4" (SLD) (100 MIL)	REF PROF PAV MRK TY I (Y) 4" (BRK) (100 MIL)	REF PROF PAV MRK TY I (Y) 4" (SLD) (100 MIL)	PREFAB PAV MRK TY C (W)(RR XING)	ELIM EXT PAV MRK & MRKS (24")	PREFORMED CENTERLINE RUMBLE STRIP	
LF	LF	LF	LF	EA	LF	LF	
	99,700	4,000	74,500			1,230	

NOTES: 1. 24" WHITE STRIPE IS FOR STOP BARS.

FOR	FOR CONTRACTOR INFORMATION ONLY								
STOP BARS SEALER									
LENGTH EA	LOCATION	LENGTH EA	LOCATION						
9'	CO RD 120								
25'	CO RD 130								
7' CO RD 140									
7'	CO RD 150								

1674 291





29.10.2020

Texas Department of Transportation San Angelo District INDEX EE SHEET 1 OF 1 NOT TO SCALE ©TxDOT 2020 JOB VA 0907 00 197, ETC 08-19 sheet no. 85 SJT TOM GREEN, ETC

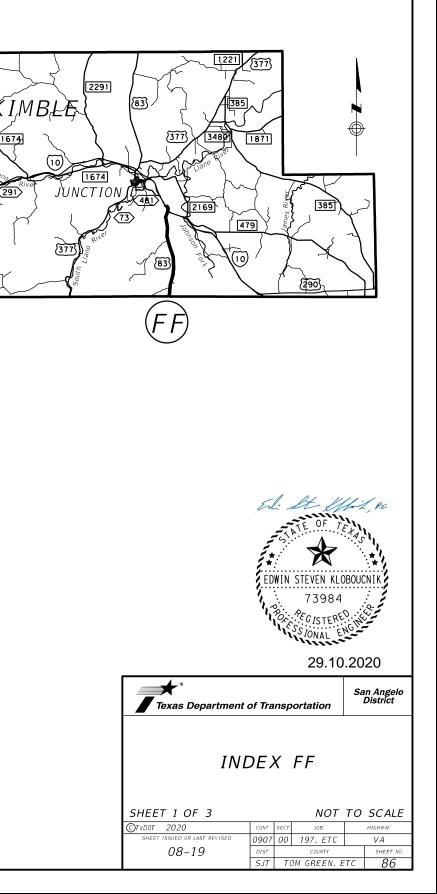
COUNTY: KIMBLE HIGHWAY: US 83 INDEX: FF LIMITS OF PROJECT: IH-10 TO KERR COUNTY LINE LENGTH: 10.691 MILES

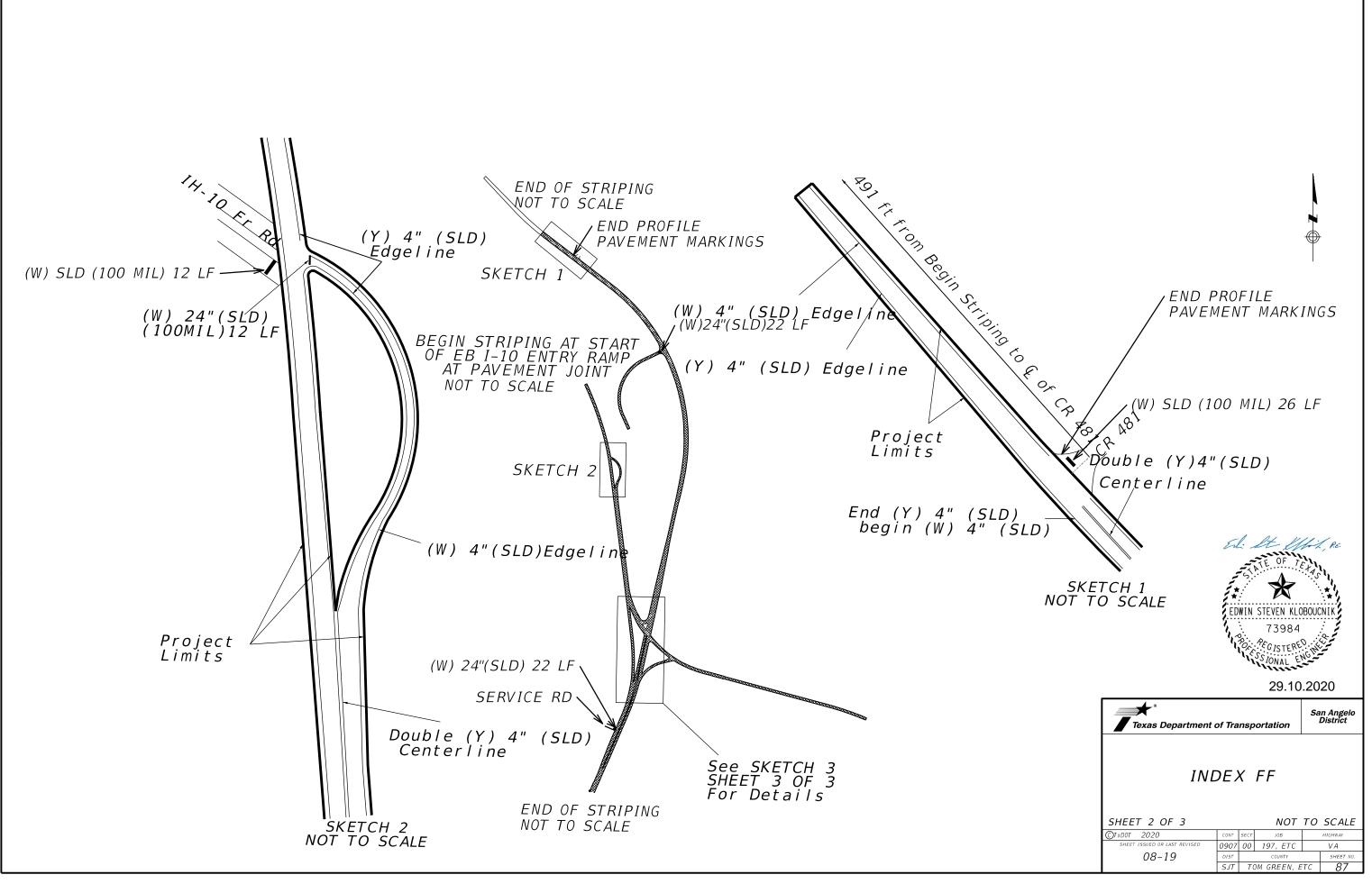
	PAVEMENT MARKING QUANTITIES (THIS SHEET ONLY)									
666-6036	666-6048	666-6138	666-6147	666-6230	666-6300	666-6303	666-6312			
REFL PAV MRK TY I (W) 8"(SLD) (100MIL)	REFL PAV MRK TY I (W) 24"(SLD) (100MIL)	REFL PAV MRK TY I (Y) 8"(SLD) (100MIL)	REFL PAV MRK TY I (Y) 24"(SLD) (100MIL)	PAVEMENT SEALER 24"	RE PM W/RET REQ TY I (W)4"(BRK) (100 MIL)	RE PM W/RET REQ TY I (W)4"(SLD) (100 MIL)	RE PM W/RET REQ TY I (Y)4"(BRK) (100 MIL)			
LF	LF	LF	LF	LF	LF	LF	LF			
1,658	185			12						
666-6315	666-6342	666-6344	666-6345	668-6089	677-6007	6056-6002				
RE PM W/RET REQ TY I (Y)4"(SLD) (100 MIL)	REF PROF PAV MRK TY I (W) 4" (SLD) (100 MIL)	REF PROF PAV MRK TY I (Y) 4" (BRK) (100 MIL)	REF PROF PAV MRK TY I (Y) 4" (SLD) (100 MIL)	PREFAB PAV MRK TY C (W)(RR XING)	ELIM EXT PAV MRK & MRKS (24")	PREFORMED CENTERLINE RUMBLE STRIP				
LF	LF	LF	LF	EA	LF	LF				
	127,600	9,060	75,900		65	2,200				

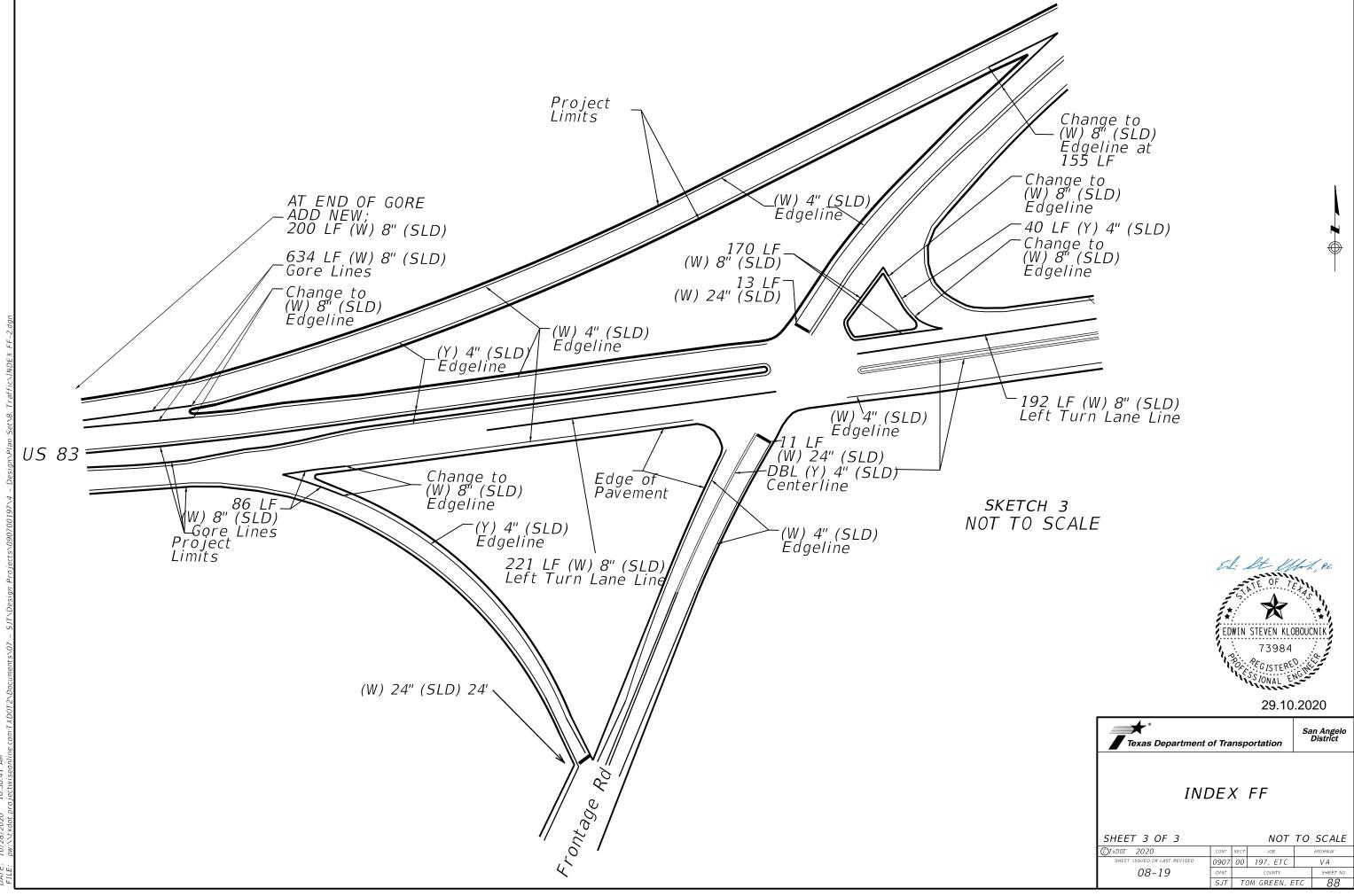
NOTES: 1. 24" WHITE STRIPE IS FOR STOP BARS. 2. 8" WHITE SOLID FOR TURN LANES, ISLANDS, AND GORES.

FOR	FOR CONTRACTOR INFORMATION ONLY								
STOP	' BARS	SEALER							
LENGTH EA	LOCATION	LENGTH EA	LOCATION						
26'	CO RD 481	12'	CO RD 110						
12',12'	S. FRONTAGE RD	REMOVE	E 24"						
13'	SW OFF RAMP	LENGTH EA	LOCATION						
1 1'	SE ON RAMP	12'	S. FRONTAGE RD						
22'	NW OFF RAMP	22'	SE SERVICE RD						
24'	SE RIGHT TURN	17'	CO RD 112						
22'	SE SERVICE RD	14'	CO RD 111						
17'	CO RD 112								
14'	CO RD 111								
12'	CO RD 110								

North Car



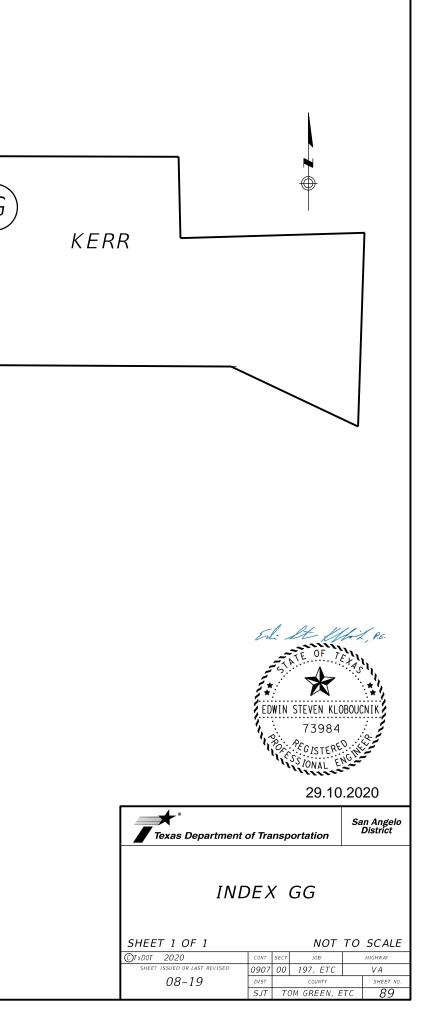






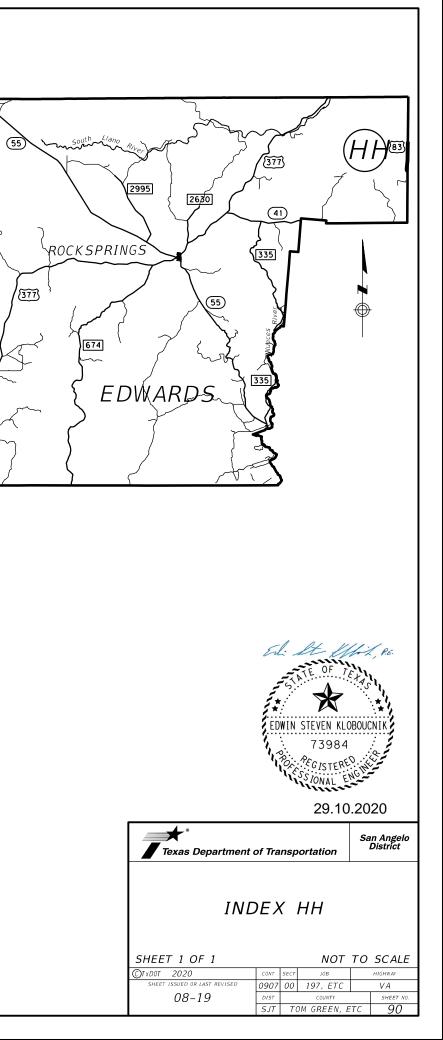
COUNTY: KERR HIGHWAY: US 83 INDEX: GG LIMITS OF PROJECT: KIMBLE COUNTY LINE TO EDWARDS COUNTY LINE LENGTH: 6.406 MILES

	PAVEMENT MARKING QUANTITIES (THIS SHEET ONLY)									
666-6036	666-6048	666-6138	666-6147	666-6230	666-6300	666-6303	666-6312			
REFL PAV MRK TY I (W) 8"(SLD) (100MIL)	REFL PAV MRK TY I (W) 24"(SLD) (100MIL)	REFL PAV MRK TY I (Y) 8"(SLD) (100MIL)	REFL PAV MRK TY I (Y) 24"(SLD) (100MIL)	PAVEMENT SEALER 24"	RE PM W/RET REQ TY I (W)4"(BRK) (100 MIL)	RE PM W/RET REQ TY I (W)4"(SLD) (100 MIL)	RE PM W/RET REQ TY I (Y)4"(BRK) (100 MIL)			
LF	LF	LF	LF	LF	LF	LF	LF			
666-6315	666-6342	666-6344	666-6345	668-6089	677-6007	6056-6002				
RE PM W/RET REQ TY I (Y)4"(SLD) (100 MIL)	REF PROF PAV MRK TY I (W) 4" (SLD) (100 MIL)	REF PROF PAV MRK TY I (Y) 4" (BRK) (100 MIL)	REF PROF PAV MRK TY I (Y) 4" (SLD) (100 MIL)	PREFAB PAV MRK TY C (W)(RR XING)	ELIM EXT PAV MRK & MRKS (24")	PREFORMED CENTERLINE RUMBLE STRIP				
LF	LF	LF	LF	EA	LF	LF				
		67,790	6,040	35,010		1,090				



COUNTY: EDWARDS HIGHWAY: US 83 INDEX: HH LIMITS OF PROJECT: KERR COUNTY LINE TO KERR COUNTY LINE LENGTH: 3.513 MILES

		PA	VEMENT MARKING QU	ANTITIES (THIS SHEE	T ONLY)		
666-6036	666-6048	666-6138	666-6147	666-6230	666-6300	666-6303	666-6312
REFL PAV MRK TY I (W) 8"(SLD) (100MIL)	REFL PAV MRK TY I (W) 24"(SLD) (100MIL)	REFL PAV MRK TY I (Y) 8"(SLD) (100MIL)	REFL PAV MRK TY I (Y) 24"(SLD) (100MIL)	PAVEMENT SEALER 24"	RE PM W/RET REQ TY I (W)4"(BRK) (100 MIL)	RE PM W/RET REQ TY I (W)4"(SLD) (100 MIL)	RE PM W/RET REQ TY I (Y)4"(BRK) (100 MIL)
LF	LF	LF	LF	LF	LF	LF	LF
666-6315	666-6342	666-6344	666-6345	668-6089	677-6007	6056-6002	
RE PM W/RET REQ TY I (Y)4"(SLD) (100 MIL)	REF PROF PAV MRK TY I (W) 4" (SLD) (100 MIL)	REF PROF PAV MRK TY I (Y) 4" (BRK) (100 MIL)	REF PROF PAV MRK TY I (Y) 4" (SLD) (100 MIL)	PREFAB PAV MRK TY C (W)(RR XING)	ELIM EXT PAV MRK & MRKS (24")	PREFORMED CENTERLINE RUMBLE STRIP	
LF	LF	LF	LF	EA	LF	LF	
	37,060	3,680	15.700			845	



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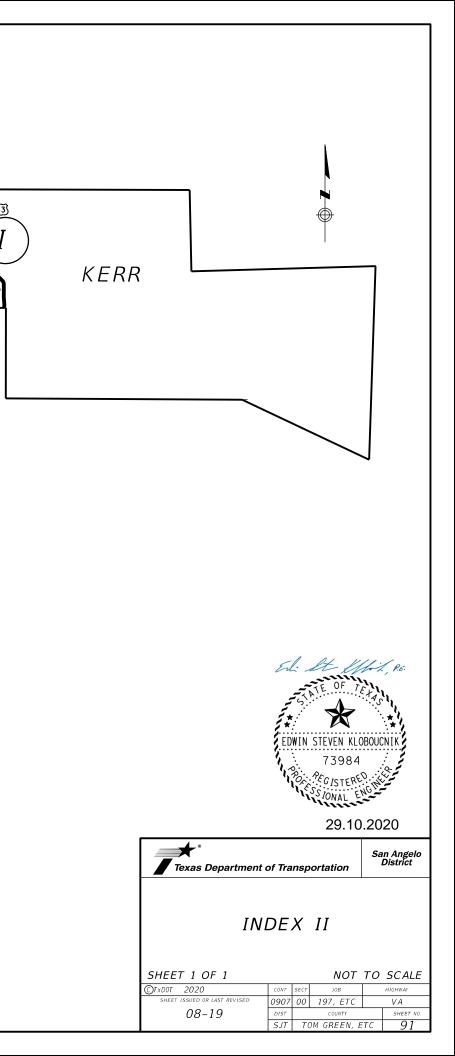
2523

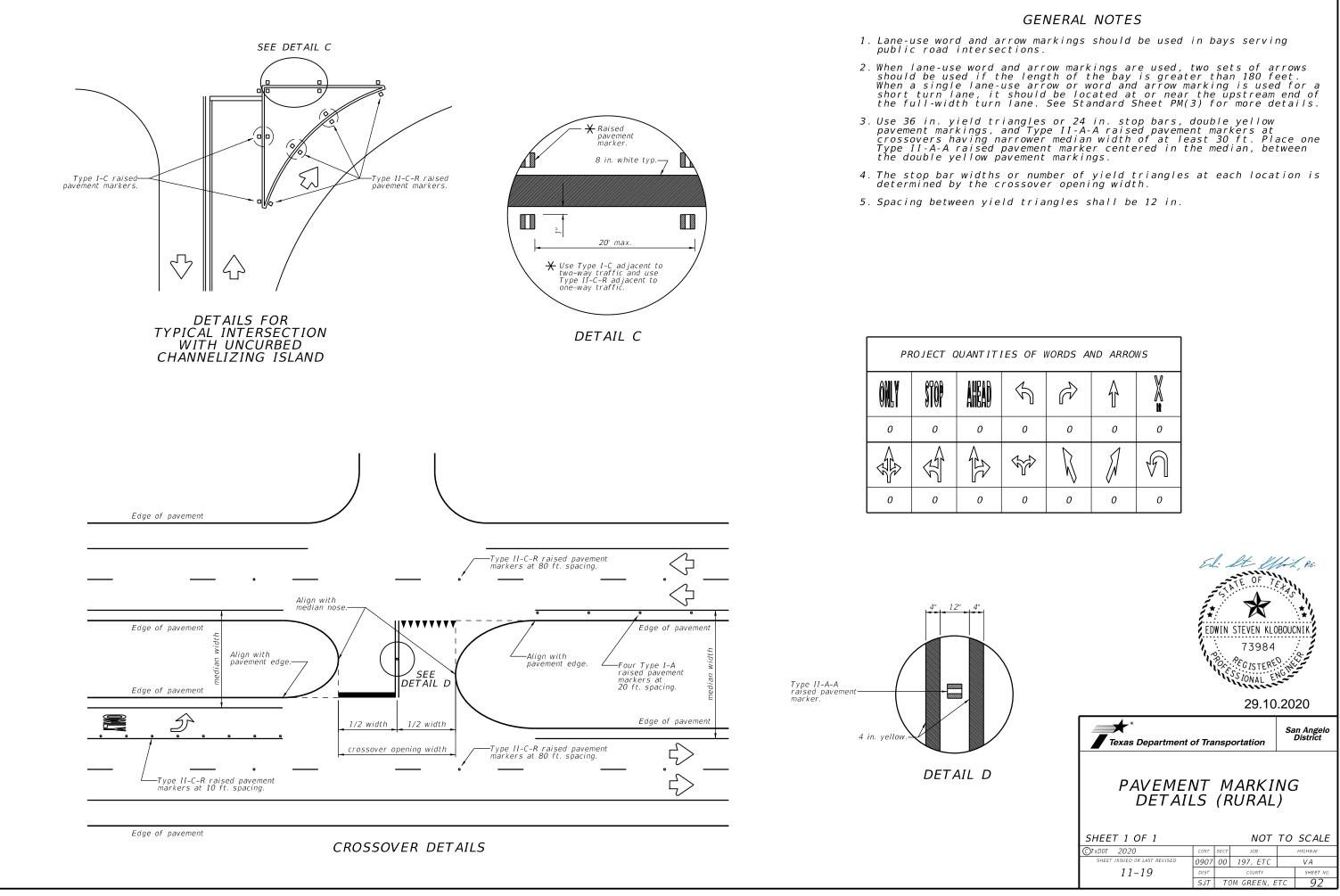
COUNTY: KERR HIGHWAY: US 83 INDEX: II LIMITS OF PROJECT: EDWARDS COUNTY LINE TO REAL COUNTY LINE LENGTH: 7.958 MILES

		PA	VEMENT MARKING QU	ANTITIES (THIS SHEE)	T ONLY)		
666-6036	666-6048	666-6138	666-6147	666-6230	666-6300	666-6303	666-6312
REFL PAV MRK TY I (W) 8"(SLD) (100MIL)	REFL PAV MRK TY I (W) 24"(SLD) (100MIL)	REFL PAV MRK TY I (Y) 8"(SLD) (100MIL)	REFL PAV MRK TY I (Y) 24"(SLD) (100MIL)	PAVEMENT SEALER 24"	RE PM W/RET REQ TY I (W)4"(BRK) (100 MIL)	RE PM W/RET REQ TY I (W)4"(SLD) (100 MIL)	RE PM W/RET REQ TY I (Y)4"(BRK) (100 MIL)
LF	LF	LF	LF	LF	LF	LF	LF
	17						
666-6315	666-6342	666-6344	666-6345	668-6089	677-6007	6056-6002	
RE PM W/RET REQ TY I (Y)4"(SLD) (100 MIL)	REF PROF PAV MRK TY I (W) 4" (SLD) (100 MIL)	REF PROF PAV MRK TY I (Y) 4" (BRK) (100 MIL)	REF PROF PAV MRK TY I (Y) 4" (SLD) (100 MIL)	PREFAB PAV MRK TY C (W)(RR XING)	ELIM EXT PAV MRK & MRKS (24")	PREFORMED CENTERLINE RUMBLE STRIP	
LF	LF	LF	LF	EA	LF	LF	
	84.040	2.650	69.500			490	

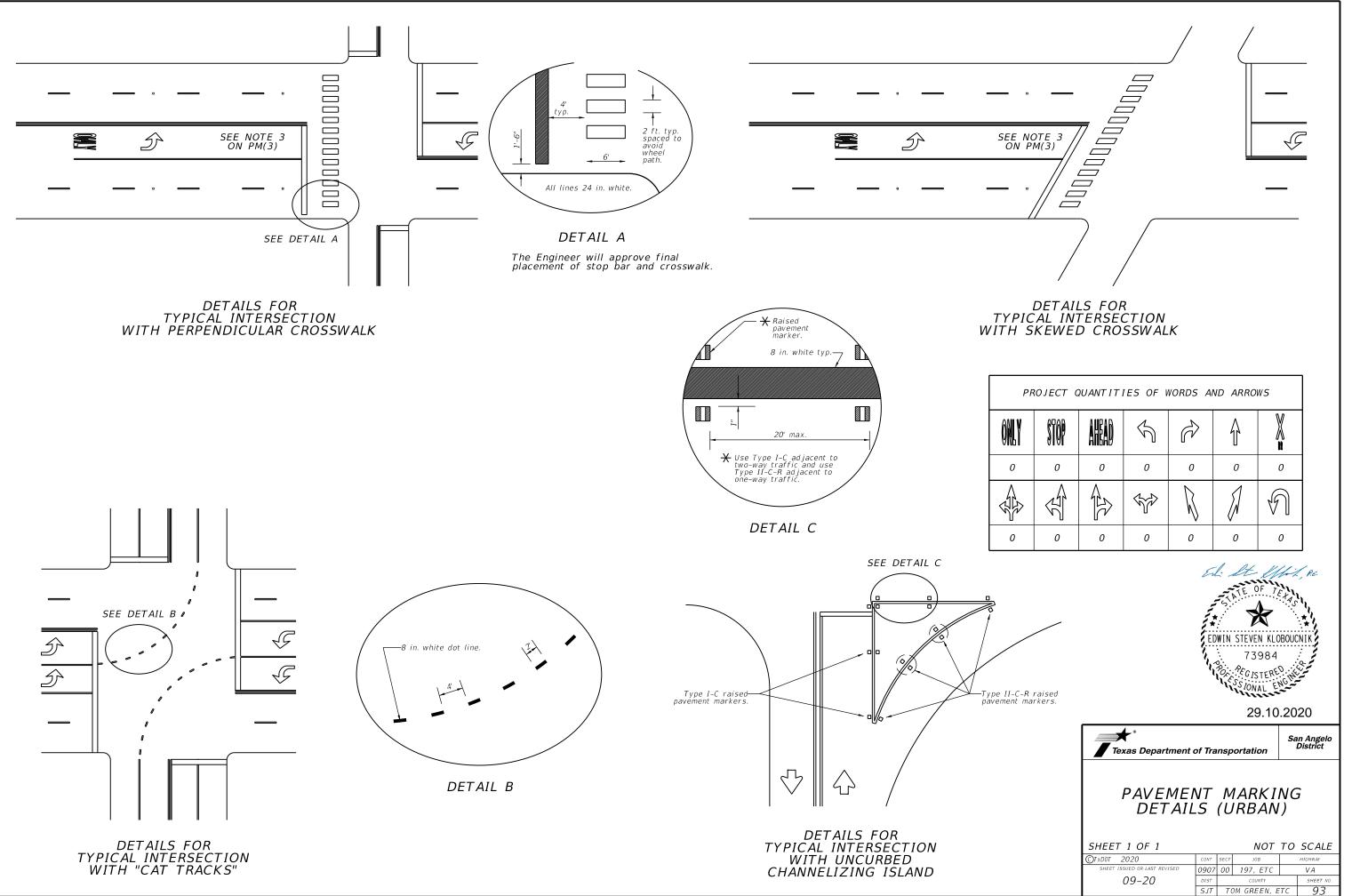
NOTES: 1. 24" WHITE STRIPE IS FOR STOP BARS.

FOR	FOR CONTRACTOR INFORMATION ONLY							
STOP	STOP BARS SEALER							
LENGTH EA	LOCATION	LENGTH EA	LOCATION					
17'	17' GOLDEN WAY							



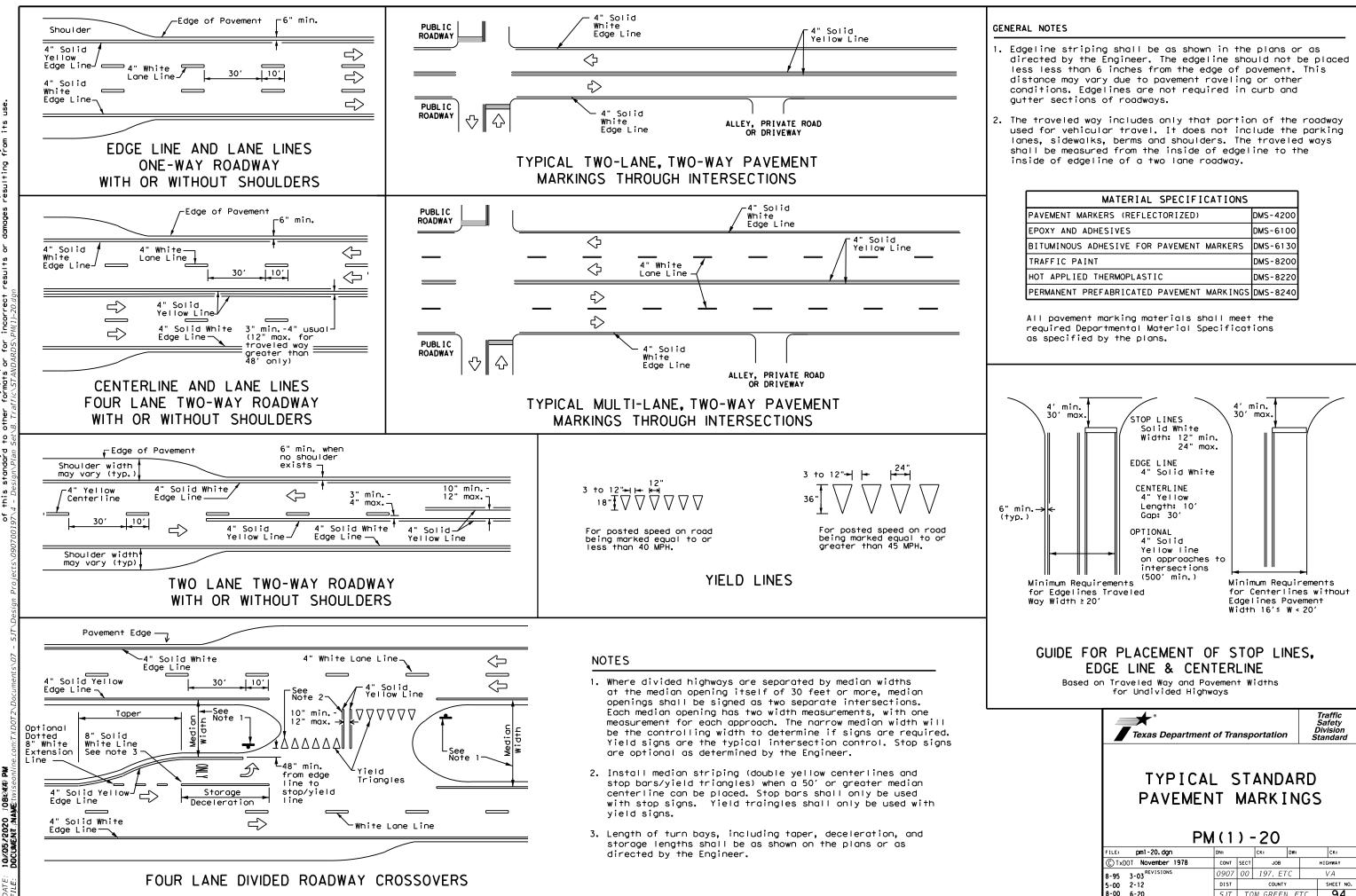


NTITI	NTITIES OF WORDS AND ARROWS								
HEAD	Ś	£	Ŷ						
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	Store Store		A	Ð					
0	0	0	0	0					



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PR	PROJECT QUANTITIES OF WORDS AND ARROWS								
ÔNLY	stop	AHBAD	Ś	R	Ŷ				
0	0	0	0	0	0	0			
	STS			R	A	Ð			
0	0	0	0	0	0	0			



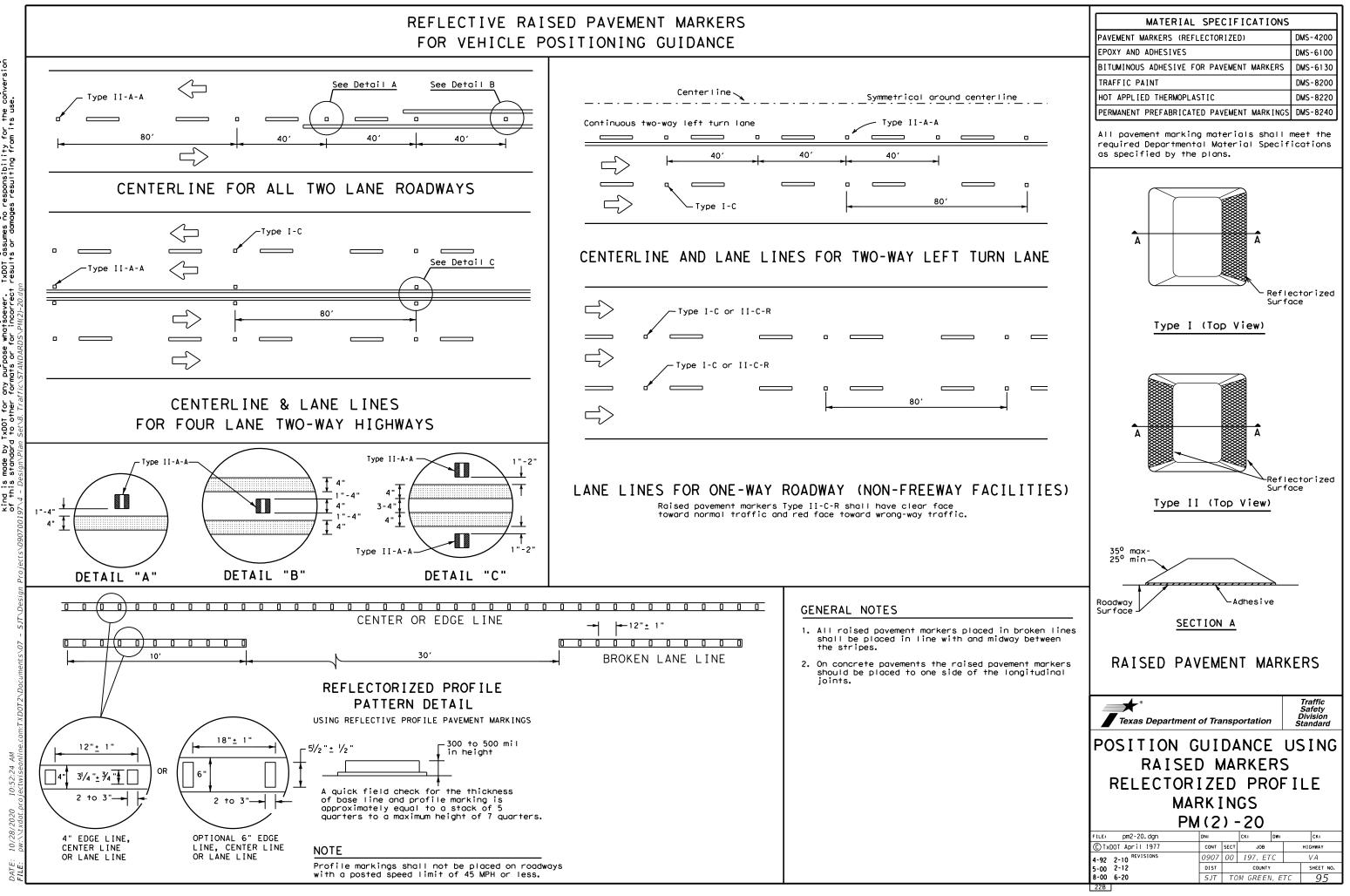
DISCLAIMER: The use of this standard is governed by the "Texas Engineering Practice Act". No warranty of any kind is made by TxDD1 for any purpose whotsoever. TxDD1 assumes no resonsibility for the conversion of this standard to other formats or for incorrect results or damages resulting from its use.

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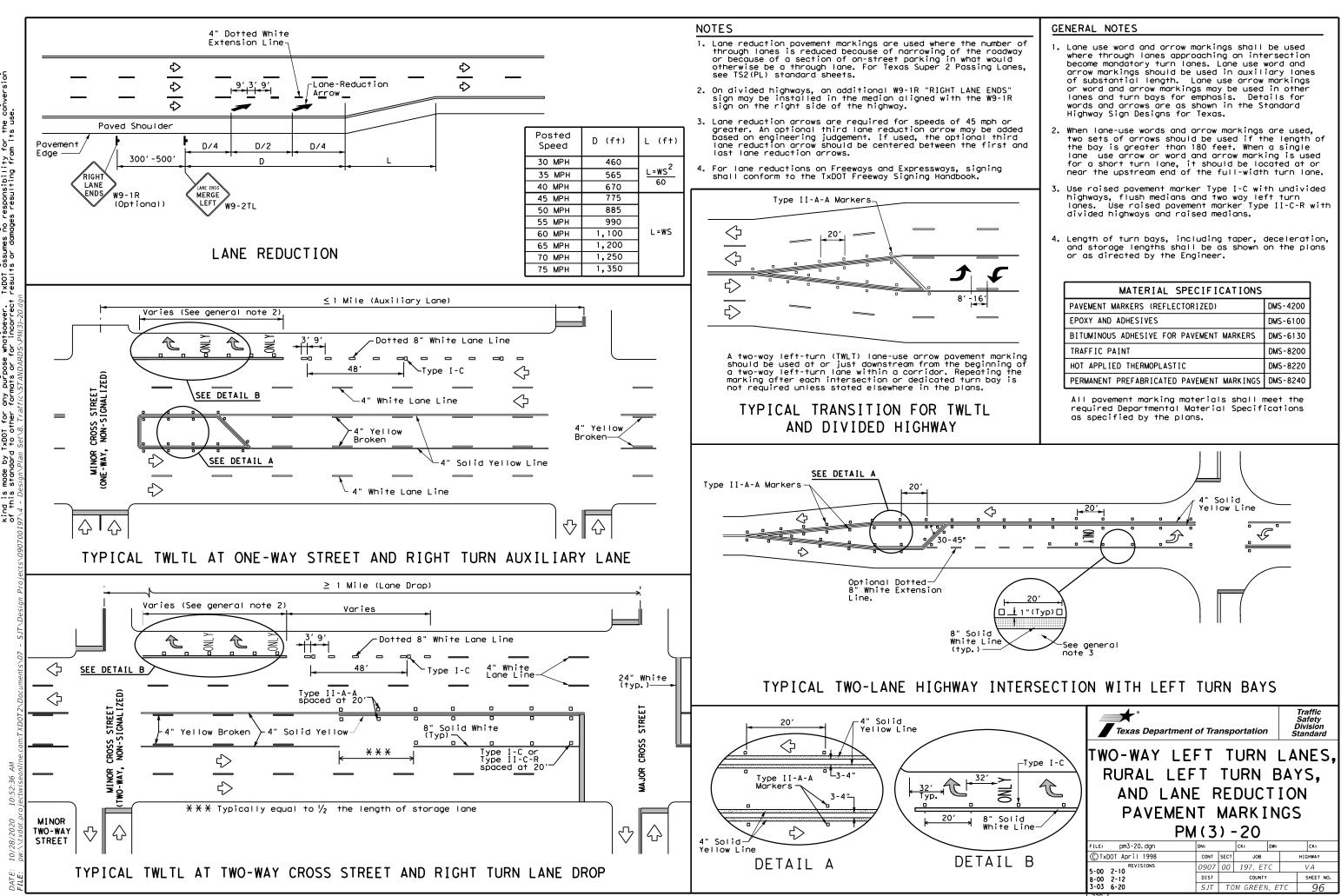
MATERIAL SPECIFICATIONS						
PAVEMENT MARKERS (REFLECTORIZED)	DMS-4200					
EPOXY AND ADHESIVES	DMS-6100					
BITUMINOUS ADHESIVE FOR PAVEMENT MARKERS	DMS-6130					
TRAFFIC PAINT	DMS-8200					
HOT APPLIED THERMOPLASTIC	DMS-8220					
PERMANENT PREFABRICATED PAVEMENT MARKINGS	DMS-8240					

Texas Departme	ent of Trans	portation		Traffic Safety Division Standard		
TYPICAL STANDARD PAVEMENT MARKINGS						
	.NI М. РМ(1)		NG	5		
		-20	NG:	Ск:		
FILE: pm1-20.dgn © 1xD0T November 1978	PM(1)	-20 ск: [t		_		
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FILE: pm1-20. dgn © TxD0T November 1978	PM (1)	-20 [CK1] [] JOB	Dw:	CK: HIGHWAY		

FOR VEHICLE POSITIONING GUIDANCE

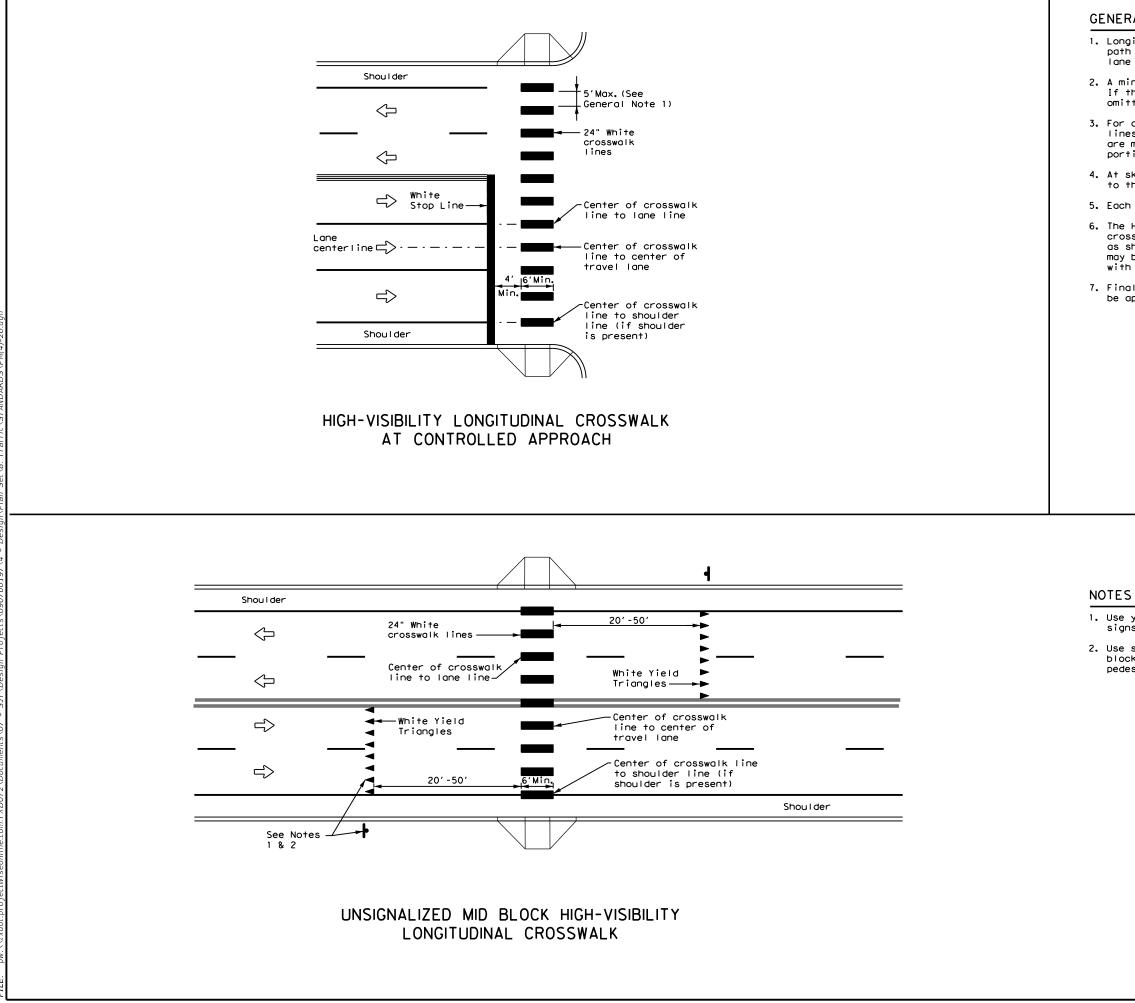


DISCLAIMER: The use of this standard is governed by the "Texas Engineering Practice Act". No warranty of any kind is made by TxDD1 for any purpose whotsever. TxDD1 assumes no responsibility for the conversion of this standard to other formats or for incorrect results or damages resulting from its use.



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

White Line	PM(3)-20					
	FILE: pm3-20.dgn	DN:		СК:	DW:	CK:
AIL B	CTxDOT April 1998	CONT	SECT	JOB		HIGHWAY
	REVISIONS 5-00 2-10	0907	00	197, ET	°C	VA
	8-00 2-12	DIST		COUNTY		SHEET NO.
	3-03 6-20	SJT	ΤO	M GREEN	I, ETC	96
	22D					



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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 omitted.

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/Yield Triangles and Crosswalk shall be approved by the Engineer in the field.

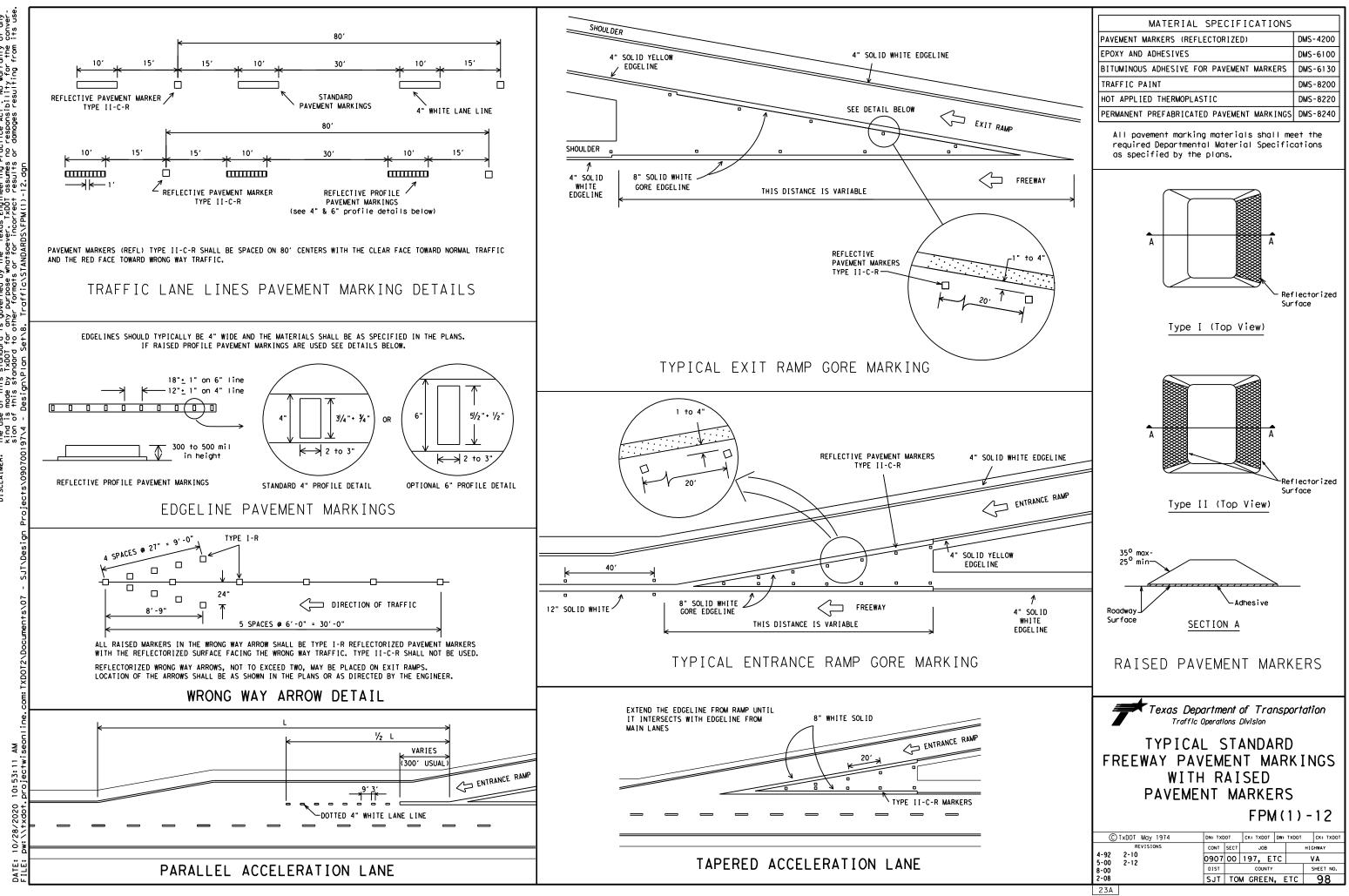
MATERIAL SPECIFICATIONS					
PAVEMENT MARKERS (REFLECTORIZED)	DMS-4200				
EPOXY AND ADHESIVES	DMS-6100				
BITUMINOUS ADHESIVE FOR PAVEMENT MARKERS	DMS-6130				
TRAFFIC PAINT	DMS-8200				
HOT APPLIED THERMOPLASTIC	DMS-8220				
PERMANENT PREFABRICATED PAVEMENT MARKINGS	DMS-8240				

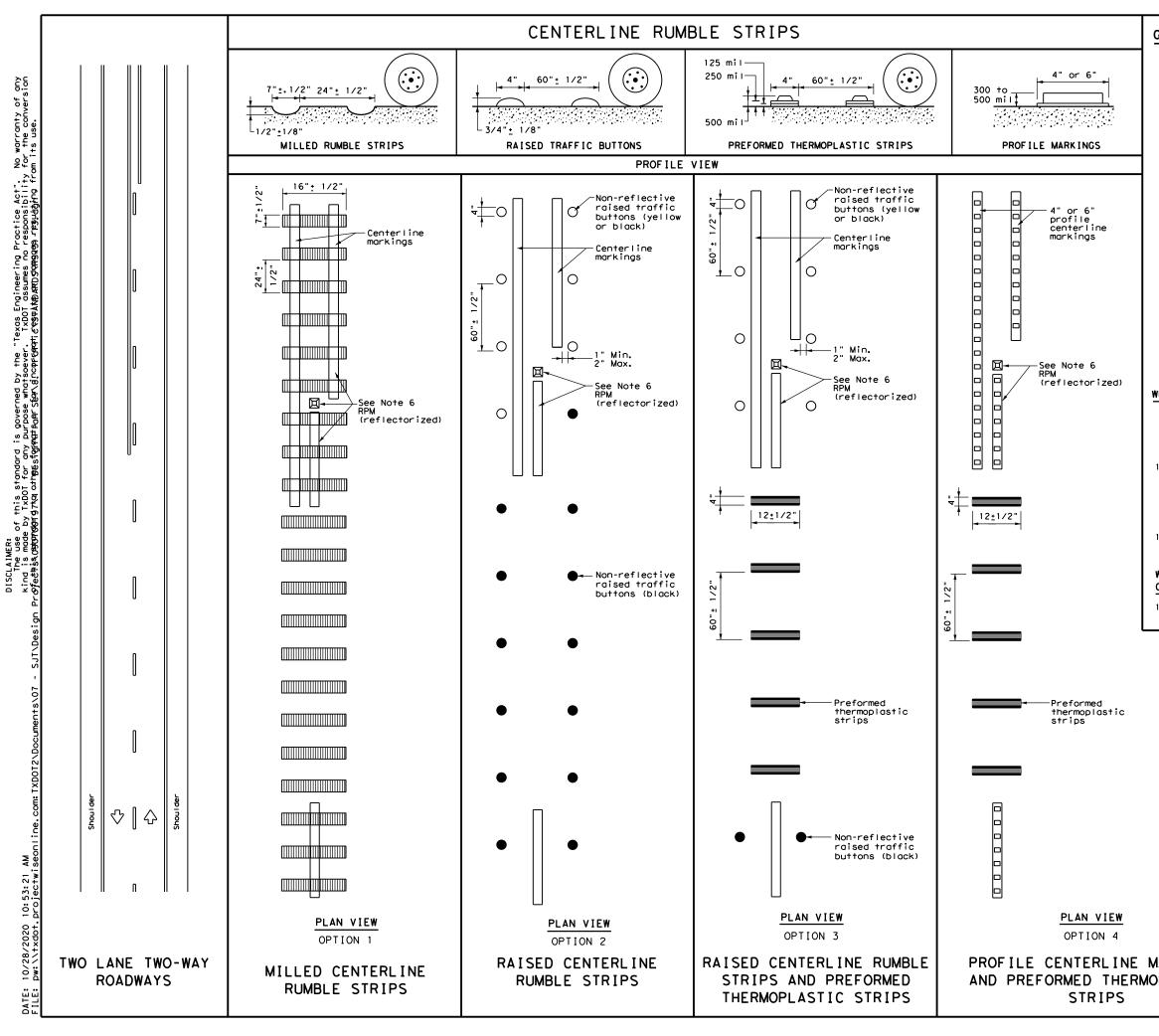
All pavement marking materials shall meet the required Departmental Material Specifications as specified by the plans.

1. Use yield triangles with "Yield Here to Pedestrians" signs at unsignalized mid block crosswalks.

2. Use stop bars with "Stop Here on Red" signs at mid block crosswalks controlled by traffic signals or pedestrian hybrid beacons.

Traffic Safety Division Standard									
CROSSWALK PAVEMENT MARKINGS PM(4)-20									
Р	M (4) -	-20						
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) -		Dw:	CK:				
FILE: pm4-20. dgn	DN:		СК:		•				
FILE: pm4-20. dgn C TxDOT June 2020	DN: CONT	SECT	CK: JOB		HIGHWAY				
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GENERAL NOTES

- This standard sheet provides guidelines for installing centerline rumble strips on two-lane highways with or without shoulders.
- 2. Centerline and edgeline 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.
- See dimensions for milled rumble strips. Other shapes and dimensions may be used if approved by the Traffic Operations Division.
- 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 and driveways with high usage of large trucks.
- Use Standard Sheet PM(2) for positioning, dimensioning, and spacing of all reflective raised pavement markers, and dimensions pavement markings and profile markings.
- Consideration should be given to noise levels when centerline rumble strips are installed near residential areas, schools, churches, etc. A minimum of 3/8 inch depth of milled rumble strip may be considered in these areas.
- 8. Pavement markings must be applied over milled centerline rumble strips.

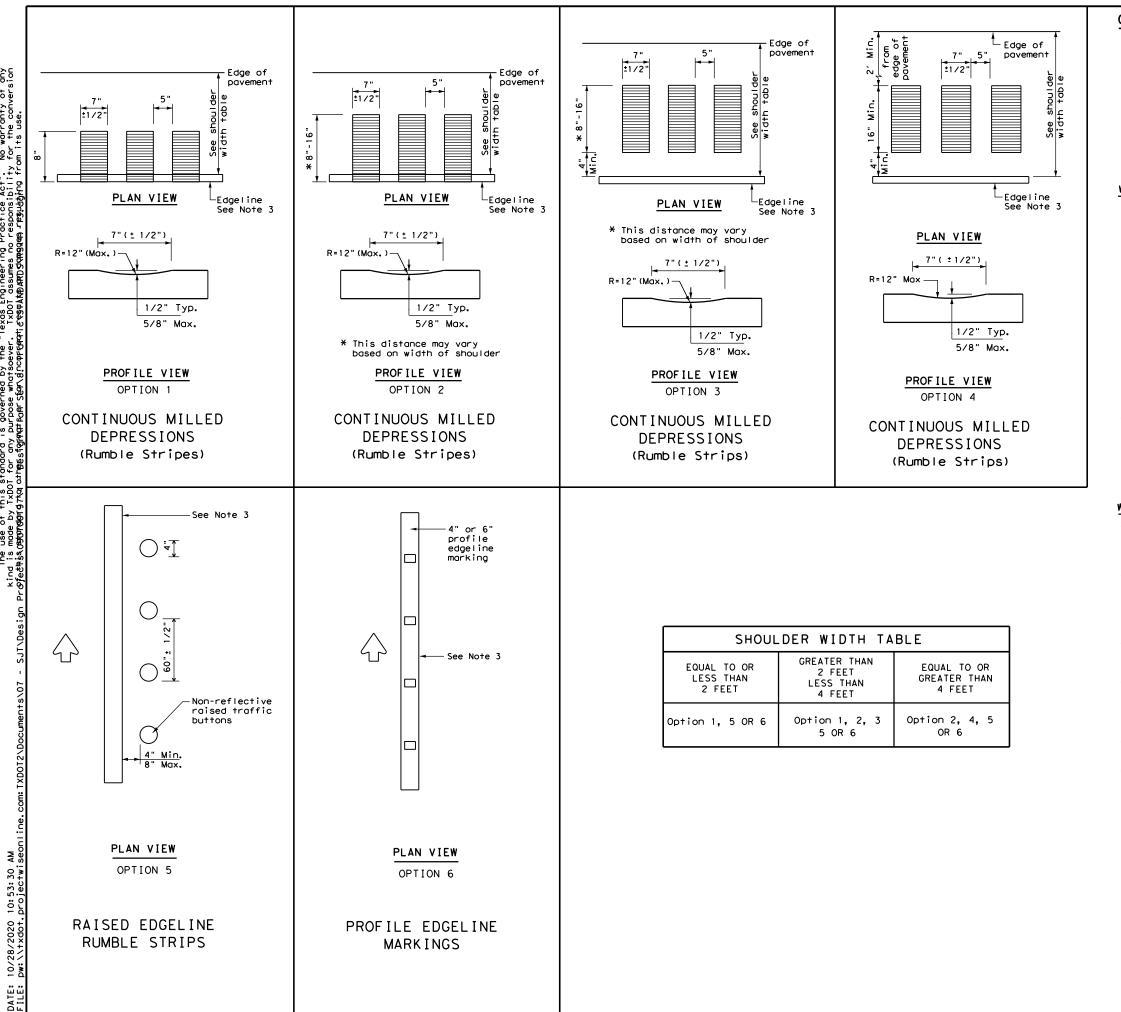
WHEN INSTALLING CENTERLINE RUMBLE STRIPS:

- 9. 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.
- 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.

WHEN INSTALLING EDGELINE RUMBLE STRIPS WITH OR WITHOUT CENTERLINE RUMBLE STRIPS ON UNDIVIDED HIGHWAYS:

12. See standard sheet RS(4).

	Texas Department of Transportation [®]						
	Traffic Operations Division Standard						
	CENTERLINE RUMBLE STRIPS ON TWO LANE TWO-WAY HIGHWAYS						
			RS (3) -	-13		
ARKINGS	FILE:	rs(3)-13,dgn	dn: Tx	DOT	CK: TXDOT DW:	TxDOT	ск: TxDOT
PLASTIC	© ⊺xD0		CONT	SECT	JOB		HIGHWAY
LASIIC		REVISIONS	0907	00	197, ETC		VA
			DIST		COUNTY		SHEET NO.
			SJT	TO	M GREEN,	ETC	99
	92						



warranty of any - the conversion its use. S p this standard is governed by the "Texas Engineering Practice Act". / TxDOT for any purpose whatsoever. TxDOT assumes no responsibility ່ອງໄດ້ ຝາກິສຣ໌ທິອິດສາດຮົດສາດຊິກດອກເດສາກີເຮົາຮູກໄດ້ຄົນແກບງິດແຫວງແລງ ເກຍົມປູ່ຄູ່ກ່າວ fro e g g g _AIMER: The use is mode

GENERAL NOTES

- Rumble strips and profile markings shall not be placed on roadways with a posted speed limit of 45 MPH or less.
- 2. 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.
- Use Standard Sheet PM(2) for positioning, dimensioning, and spacing of all reflective raised pavement markers, pavement markings, and profile markings.
- 4. See the table below for determining what options may be used for edgeline rumble strips.

WHEN INSTALLING MILLED DEPRESSION EDGELINE RUMBLE STRIPS:

- 5. See dimensions for milled rumble strips. Other shapes and dimensions may be used if approved by the Traffic Operations Division.
- 6. Pavement markings can be applied over milled shoulder rumble strips to create an edgeline rumble stripe.
- 7. Breaks in edgeline rumble strips shall occur at least 50 feet and no more than 150 feet in advance of bridges, railroad crossings, intersections and driveways with high usage of large trucks when installed on conventional highways.
- 8. Rumble strips shall not be placed across exit or entrance ramps, acceleration and deceleration lanes, crossovers, gore areas or intersections with other roadways.
- 9. Consideration should be given to noise levels when edgeline rumble strips are installed near residential areas, schools, churches, etc. A minimum of 3/8 inches depth of milled rumble strip may be considered in these areas.
- On roadways with high bicycle activity, consideration should be given before the installation of edgeline rumble strips. Things to consider include size of rumble strips, rumble strip material and location of rumble strips on the shoulder. If the designer determines that gaps are needed in the rumble strips due to bicycle use of the road, then follow the requirement shown in FHWA Technical Advisory T5040.39, or latest version. A detail of the spacing shall be included in the plans.

WHEN INSTALLING RAISED OR PROFILE EDGELINE RUMBLE STRIPS:

- 11. 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 the manufacturer's recommendations.
- 12. Non-reflective traffic buttons shall be placed adjacent to the pavement marking delineating the edgeline when used as a rumble strip. The color of the button should match the color of the adjacent edgeline marking (white or yellow). The buttons will be paid for under Item 672, "Raised Pavement Markers." Non-reflective traffic buttons must meet the requirements of DMS-4300.
- 13. Non-reflective traffic buttons shall not be placed across exit or entrance ramps, acceleration and deceleration lanes, crossovers, gore areas or intersections with other roadways.
- 14. Breaks in edgeline rumble strips using raised traffic buttons shall occur at least 50 feet and no more than 150 feet in advance of bridges, railroad crossing, intersections and driveways with high usage of large trucks when installed on conventional highways.
- 15. The minimum distance between the edgeline and the buttons should be used if the shoulder is less than 8 feet in width.
- 16. Raised profile thermoplastic markings used as edgelines may substitute for buttons.

Traffic Operations Division Standard							
EDGELINE							
RUMBLE STRIPS							
ON UNDIVIDED OR TWO							
LANE HIGHWAYS							
	RS (4) - 13						
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	I. STORMWATER POLLUTION PREVENTION-CLEAN WATER	III. CULTURAL RESOURCES	VI. HAZARDOUS MATERIALS OR CON
	ACT SECTION 402 TPDES TXR 150000: Stormwater Discharge Permit or CGP required for projects with	Refer to the 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	General (applies to all projects): Comply with the Hazard Communication Act (the Act)
	1 or more acres disturbed soil. Projects with any disturbed soil must protect for erosion and sedimentation in accordance with Item 506. List MS4 Operator that may receive discharges from this project. The MS4	the immediate area and contact the Engineer immediately.	Comply with the Hazard Communication Act (the Act) working with hazardous materials by conducting safe beginning construction and making workers aware of workplace. Ensure that all workers are provided wit
	List MS4 Operator that may receive discharges from this project. The MS4 Operator may need to be notified prior to construction activities. 1.N/A	1 . N/A	equipment appropriate for any hazardous materials u
	✓ NO ACTION REQUIRED □ ACTION REQUIRED		Obtain and keep on-site MSDS for all hazardous prod which may include, but are not limited to the follo acids, solvents, asphalt products, chemical additiv curing compounds or additives. Provide protected st covered, for products which may be hazardous. Maint
dgn	1. Prevent stormwater pollution by controlling erosion and sedimentation in accordance with TPDES Permit TXR 150000. 2.Comply with the SW3P and revise when necessary to control pollution or required		required by the Act.
ENTS.	by the Engineer. 3. Post CSN with SW3P information on or near the site, accessible to the public and TCEQ, EPA or other inspectors. 4. When PSL's increase disturbed soil area to 5 acres or more, submit NOI to TCEQ		Maintain an adequate supply of on-site spill respon in the MSDS. In the event of a spill, take actions indicated in the MSDS, in accordance with safe work TxDOT District spill coordinator immediately. The C responsible for the proper containment and cleanup
MMITM	and the Engineer.		responsible for the proper containment and cleanup Contact the Engineer if any of the following are de
ND CO	II. WORK IN OR NEAR STREAMS, WATERBODIES AND WETLANDS CLEAN WATER ACT SECTIONS 401 AND 404		Dead or distressed vegetation (not identified a Trash piles, drums, canister, barrels, etc. Undesirable smells or odors
UES A	USACE Permit required for filling, dredging, excavating or other work in any water bodies, rivers, creeks, streams, wetlands or wet areas.	IV. VEGETATION RESOURCES	Evidence of leaching or seepage of substances Does the project involve any bridge class structure
S ISS	Adhere to all of the terms and conditions associated with the following permit(s):	Preserve native vegetation to the extent practical.	replacements (bridge class structures not including
ERMIT	∑ No Permit Required □ Nationwide Permit 14 - PCN not Required (less than 1/10th acre waters or wetlands affected)	Adhere to specification requirements of Items 162, 164, 192, 193, 506, 730, 751, 752 in order to comply with requirements for invasive species, beneficial landscaping, and tree/brush removal commitments.	If "No", then no further action is required. If "Yes", then TxDOT is responsible for completing
VTAL P	□ Nationwide Permit 14 - PCN Required (1/10 to <1/2 acre, 1/3 in tidal waters) □ Individual 404 Permit Required □ Other Nationwide Permit Required: NWP#	□ NO ACTION REQUIRED	assessment/inspection. Are the results of the asbestos inspection positive
RONMEI	The elevation of the ordinary high water marks of any areas requiring work to be performed in the waters of the US requiring the use of a nationwide permit can be found on the Bridge Layouts.	1.Only remove woody vegetation between October 1 and March 1.	□ YES
ENV IF	Required Actions: List waters of the U.S. that the permit applies to, the location in project, and check BMP's planned to control erosion, sedimentation		with the notification, develop abatement/mitigation management activities as necessary. The notificati postmarked at least 15 working days prior to schedu
nental⁄	and post-construction TSS. 1. N/A		If "No", then TxDOT is still required to notify DSH any scheduled demolition.
Environa			In either case, the Contractor is responsible for p abatement activities and/or demolition with careful Engineer and asbestos consultant in order to minimi subsequent claims.
Set \9.			Any other evidence indicating possible hazardous ma discovered on site (hazardous materials or contamin
Plan 5			this project): If NO ACTION REQUIRED I ACTION REC
)esign		V. FEDERAL LISTED, PROPOSED THREATENED, ENDANGERED SPECIES, CRITICAL HABITAT, STATE LISTED	1. N/A
\4 - L		SPECIES, CANDIDATE SPECIES AND MIGRATORY BIRDS If any of the listed species are observed, cease work in the immediate area, do	
200197		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	
s\0905		immediately. NO ACTION REQUIRED	
roject		1. The Migratory Bird Treaty Act of 1918 states that it is unlawful to kill, capture, collect, possess, buy, sell, trade, or transport any migratory bird,	
sign P	BEST MANAGEMENT PRACTICES	1. The Migratory Bird Treaty Act of 1918 states that it is unlawful to kill, capture, collect, possess, buy, sell, trade, or transport any migratory bird, nest, young, feather, or egg in part or in whole, without a federal permit issued in accordance with the Act's policies and regulations. Migration patterns would not be affected by the proposed project. Remove non-active migratory bird nests from structures where work would be performed from September 1 through the end of February. Prevent migratory birds from building nests from March 1 to August 31. In the event that migratory birds are encountered on-site during project construction avoid adverse impacts on	
JTNDe	EROSION		
07 - S	SEEDING OR SODDING MULCHING SOL RETENTION BLANKETS	protected birds, active nests, eggs, and/or young.	VII. OTHER ENVIRONMENTAL ISSUES (Includes regional issues such as Edwards Aguifer
nents/	☐ MULCHING ☐ SOIL RETENTION BLANKETS ☐ BIODEGRADABLE EROSION CONTROL LOGS ☐ DIVERSION, INTERCEPTOR, OR PERIMETER SWALES ☐ DIVERSION, INTERCEPTOR, OR PERIMETER DIKES ☐ TOPSOIL OR COMPOST		District, etc.) In NO ACTION REQUIRED ACTION REQUIRED
\Docu	GROUND COVER		1 . N/A
XD0T2	SEDIMENTATION		
:.com:T	□ TEMPORARY SEDIMENT CONTROL FENCES □ TRIANGULAR FILTER DIKES □ TOPSOIL OR COMPOST □ BIODEGRADABLE EROSION CONTROL LOGS □ SEDIMENT BASINS		Texas Departi
42 AM seonline	□ SAND BAG BERMS □ STRAW BALE DIKES		
10:53:4. jectwise	BRUSH BERMS STORM INLET SEDIMENT TRAPS		ENVIRON
ro	POST-CONSTRUCTION TSS VEGETATIVE FILTER STRIPS RETENTION/IRRIGATION SYSTEMS	ABBREVIATIONS USED BMP - Best Management Practice NOI - Notice of Intent	ISSUES A
/28/2020 :\\txdot.p	VEGETATIVE FILTER STRIPS RETENTION/IRRIGATION SYSTEMS CONSTRUCTED WETLANDS WET BASINS WET BASINS	CGP - Construction General Permit NWP - Nationwide Permit CSN - Construction Site Notice PCN - Pre-Construction Notification DSHS - Texas Department of State Health PSL - Project Specific Location	SHEET 1 OF 1
E: 10/ E: pw:	TOPSOIL OR COMPOST BIODEGRADABLE EROSION CONTROL LOGS VEGETATION LINED DITCHES SAND FILTER SYSTEMS	Services EPA - U.S. Environmental Protection Agency MS4 - Municipal Separate Stormwater Sewer System System	CTXDOT 2020 SHEET ISSUED OR LAST REVIS
DATE FILE	GRASSY SWALES	MSDS – Material Safety Data Sheet USACE – U.S. Army Corps of Engineers	11-19

DOUS MATERIALS OR CONTAMINATION ISSUES

ne Hazard Communication Act (the Act) for personnel who will be hazardous materials by conducting safety meetings prior to struction and making workers aware of potential hazards in the ure that all workers are provided with personal protective opriate for any hazardous materials used.

ep on-site MSDS for all hazardous products used on the project, lude, but are not limited to the following categories: paints, 's, asphalt products, chemical additives, fuels and concrete ads or additives. Provide protected storage, off bare ground and products which may be hazardous. Maintain product labeling as the Act.

equate supply of on-site spill response materials, as indicated n the event of a spill, take actions to mitigate the spill as he MSDS, in accordance with safe work practices, and contact the spill coordinator immediately. The Contractor shall be or the proper containment and cleanup of all product spills.

gineer if any of the following are detected:

istressed vegetation (not identified as normal) es, drums, canister, barrels, etc. le smells or odors of leaching or seepage of substances

ct involve any bridge class structure rehabilitation or bridge class structures not including box culverts)?

TxDOT is responsible for completing asbestos pection.

of the asbestos inspection positive (is asbestos present)?

n TxDOT must retain a DSHS licensed asbestos consultant to assist ication, develop abatement/mitigation procedures, and perform ivities as necessary. The notification form to DSHS must be least 15 working days prior to scheduled demolition.

TxDOT is still required to notify DSHS 15 working days prior to demolition.

, the Contractor is responsible for providing the date(s) for vities and/or demolition with careful coordination between the spestos consultant in order to minimize construction delays and ims

ence indicating possible hazardous materials or contamination site (hazardous materials or contamination issues specific to

□ ACTION REQUIRED



PRELIMINARY SUBJECT TO REVISION

This document is released for informational purposes under the authority of EDWIN STEVEN KLOBOUCNIK, P.E. P.E. NUMBER 73984 10/28/2020 90% COMPLETE It is not to be used for regulatory approval, permit, bidding, or construction purposes.

ACTION REQUIRED

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Texas Department of	n Angelo District				
ENVIRONME ISSUES AND					
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