

Project Number: RMC638861001

County: Webb, etc.

Highway: IH 35, etc.

Control: 6388-61-001

GENERAL NOTES:

Contractor questions on this project are to be addressed to the following individual(s): sergio.reyna@txdot.gov

Contractor questions will only be accepted through email to the above individual(s).

All contractor questions will be reviewed by the Area Engineer or Assistant Area 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 Responses/

All questions submitted that generate a response will be posted through this site. The site is organized by the District, Project Type (Construction or Maintenance), Letting Date, CCSJ/Project Name.

Plans may be reviewed at Laredo District Office of the Texas Department of Transportation, 1817 Bob Bullock Loop, Laredo, Texas 78043. The contact person is Sergio Reyna at sergio.reyna@txdot.gov.

Questions concerning the specifications, work requirements, etc. of this contract should be directed to Gerardo Rangel, P.E., Transportation Operations at gerardo.rangel@txdot.gov.

For this project, the Maintenance Supervisor in charge is: Webb County Jose Magaña jose.magana@txdot.gov

Work under this contract will consist of installing, removing, replacing, or repairing signs and sign assemblies along various highways at various locations in Webb and La Salle counties.

Item 3 - Award and Execution of Contract

This Contract includes non-site specific work. Multiple work orders will be used to procure work of the type identified in the contract at locations that have not yet been determined. Time requirements for the non-site specific work orders will be specified on each issued work order.

General Notes

Sheet A

This contract becomes effective on the initial work order issue date and extends through a period of 2 calendar years or until contract funds are expended, whichever occurs first. No work orders will be issued after this time unless there is mutual agreement between the contractor and the department. The contract will be in effect until the working days of the last work order have expired.

Work for each work order must begin within seven (7) calendar days of issue date order unless otherwise directed by the Engineer.

Item 5 - Control of the Work

The Contractor shall maintain and preserve the integrity of all "existing survey markers" by avoiding the disturbance of such markers; which include all control points (horizontal and/or vertical), stakes, marks, and right-of-way markers. The Department will repair all Contractor disturbed control points, stakes, marks, and right-of-way markers. The cost for any and all repairs to the "existing survey markers" will be deducted from money due or to become due to the Contractor.

Contact the Laredo District Signal Section (956-712-7770) for coordination with TxDOT underground lines and/or facilities.

Prior to construction Contractor must call 811 to verify any utilities located within project limits. Contractor will also coordinate with utility owners for any adjustments needed to sanitary sewer manholes, water valves, gas valve, telecommunication, television manhole located within project limits. The utility company is responsible for any adjustment when necessary. The work should be performed in a manner as to not delay construction contractor work activity.

Contractor will make necessary arrangements with the utility owner(s) when utility adjustments are required, as a result of construction activities.

Item 6 - Control of Materials

Contact the project engineer to request material a minimum of one work day prior to pick up. Load material with contract personnel. Store material in a safe location off TxDOT property or Right of Way, unless otherwise approved by the Engineer. Use material furnished by TxDOT only on the TxDOT project(s) intended. Return any unused material as soon as possible.

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Item 7 - Legal Relations and Responsibilities

No significant traffic generator events identified.

Jurisdictional Waters of the United States and Project Specific Locations (PSL) Coordination - This project requires permit(s) with environmental resource agencies. There is a high probability that environmentally sensitive areas will be encountered on contractor designated project specific locations (PSLS) for the project (including but not limited to haul roads, equipment staging areas, parking areas, etc.).

Requirements for Work within Jurisdictional Waters of the United States: The department has been authorized to perform work within designated areas of the project under U.S. Army Corps of Engineers (USACE) nationwide permit (NWP) #14 and/or #3a and/or #3b.

The contractor will not initiate activities in a project specific location (PSL) associated with a U.S. Army Corps of Engineers (USACE) permit area (i.e. an area where the USACE has jurisdiction) that has not been previously evaluated by the USACE as part of the permitting for this project. Such activities include, but are not limited to, haul roads, equipment staging areas, borrow and disposal sites. Associated defined here includes materials delivered to or from the PSL. The permit area includes all waters of the U.S. and their associated wetlands affected by activities associated with this project. Special restrictions may be required for such work in these USACE jurisdictional areas. The contractor will be responsible for any and all consultations with the USACE regarding activities, including PSLs, which have not been previously evaluated by the USACE. The Contractor will provide the department with a copy of all consultation(s) or approval(s) from the USACE prior to initiating activities.

The contractor may proceed with activities in PSLs that do not affect a USACE permit area if a self determination has been made that the PSL is non-jurisdictional or proper USACE clearances have been obtained in jurisdictional areas or have been previously evaluated by the USACE as part of the permit review of this project. The contractor is solely responsible for documenting any determination(s) that their activities do not affect a USACE permit area. The contractor will maintain copies of their determination(s) for review by the department and/or any regulatory agency.

The disturbed area for all project locations in the Contract, and the Contractor project specific locations (PSLs) within 1 mile of the project limits for the Contract, will further establish the authorization requirements for storm water discharges. The Department will obtain an authorization to discharge storm water

General Notes

Sheet C

from the Texas Commission on Environmental Quality (TCEQ) for the construction activities shown on the plans. The Contractor is to obtain required authorization from the TCEQ for Contractor PSLs for construction support activities on or off the ROW. When the total area disturbed in the Contract and PSLs within 1 mile of the project limits exceeds 5 acres, the Contractor shall provide a copy of the Contractor Notice of Intent (NOI) for the PSLs to the Engineer and to the local government operating a municipal separate storm sewer system (MS4) if applicable. If the total area of project disturbed areas and PSLs total between 1-acre but less than 5-acres, the Contractor PSLs to be in compliance with TCEQ storm water regulations.

In order to expedite the approval process for PSLs or to eliminate or minimize potential impacts to project progress, initiate coordination efforts with the U.S.A.C.E. within 30 days from the date of "authorization to begin work" for all PSLs that are in areas where the USACE has jurisdiction (i.e. USACE permit areas). If this is not done, the contractor waives the right to request any contract time considerations if project progress is impacted and PSL'S approval is still pending.

Requests submitted to the area engineer will be evaluated on this basis, and will require documentation showing substantial early coordination efforts to expedite the approval process as herein stated. The request will include a detailed chronological summary status with dates of coordination activities with the resource agencies, including those occurring after the initial coordination, to be reviewed and confirmed by the district's environmental section.

For PSLs that fall within USACE permit areas, the Contractor must document and coordinate with the USACE, if required, before any excavation hauled from or embankment hauled into a USACE permit area by either (1) or (2) below.

- Restricted Use of Materials for Previously Evaluated Permit Areas. The Contractor will document both the project specific location (PSL) and their authorization and the Contractor will maintain copies for review by the Department and/or any regulatory agency. When an area within the project limits has been evaluated by the USACE as part of the permit process for this project, then:
 - Suitable excavation of required material in the areas shown on the plans and cross sections as specified in Item 110 is used for permanent or temporary fill (Item 132, Embankment) within a USACE permit area may be restricted;

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- b. Suitable embankment (Item 132) from within the USACE permit area is used as fill within a USACE evaluated area may be restricted; and,
- c. Unsuitable excavation or excess excavation ["Waste"] (Item 110) that is disposed of at an approved location within a USACE evaluated area may be restricted.
- 2. Contractor Materials from Areas Other than Previously Evaluated Areas. The Contractor will provide the Department with a copy of all USACE coordination or approvals before initiating any activities for an area within the project limits that has not been evaluated by the USACE or for any off right-of-way locations used for the following, but not limited to, haul roads, equipment staging areas, borrow and disposal sites, including:
 - a. Item 132, Embankment, used for temporary or permanent fill within a USACE permit area; and,
 - b. Unsuitable excavation or excess excavation ["Waste"] (Item 110, Excavation) that is disposed of outside a USACE evaluated area.

Storm Water Regulations Requirements:

The Contractor shall be responsible for (off ROW) PSLs applicable to the TCEQ Construction General Permit (CGP) requirements and will notify the Engineer of the disturbed acreage within one (1) mile of the project limits. The Contractor shall obtain any required authorization form the TCEQ for any Contractor PSLs for construction support activities on or off ROW.

The total disturbed areas within the ROW are anticipated at less than one (1) acre and/or this project is classified as "surface work" consisting of an asphalt overlay of an existing roadway without shoulder-up disturbances. Due to this type of construction, the project qualifies for exclusion under the *Construction General Permit* (CGP) issued by the Texas Commission on Environmental Quality (TCEQ) on February 15, 2008. However; should the sum of the Engineer's anticipated disturbances and all of the Contractor's (On ROW and off ROW) PSLs equal or exceed the one (1) acre threshold, both TxDOT and the Contractor shall have project compliance with all applicable water quality regulations, the Contractor shall obtain Engineer's initial soil and vegetation disturbance that increases the Engineer's initial soil and vegetation disturbance area.

Item 8 - Prosecution and Progress

No closures will be allowed on the weekends which include the following holidays: January 1, the last Monday in May, July 4, the first Monday in

September, the fourth Thursday in November, December 25 and Easter weekend.

Nighttime work will be allowed to be performed, as approved and directed by the Engineer. Refer to the Sequence of Work, Traffic Control Plan, etc. shown in the plans for other details.

Perform work at night, with traffic control set up no earlier than 9:00 P.M. and all work completed and traffic control removed by 6:00 A.M., when a lane or ramp closure is required on the following highway(s) unless otherwise directed by the Engineer:

Highway	From	То
IH 35	Mile Marker 0	Mile Marker 15

Equipment and material may be pre-staged at approved locations.

The Contractor will be assessed liquidated damages for each work order not completed within the working days specified in the work order in accordance with the "Schedule of Liquidated Damages." Liquidated damages will be based on each work order's estimated dollar amount.

Item 9 - Measurement and Payment

Coordinate and provide off-duty law enforcement officers with officially marked vehicles (if patrol cruisers are available from the enforcement agency involved) during the following operations: lane closures. For payment through TxDOT state force account method, complete the weekly tracking forms provided by the department and submit invoices that agree with the tracking form for payment at the end of each month approved services were provided.

Submit Material on hand (MOH) payment requests at least 5 working days prior to the end of the month for payment on that month's estimate. For out of town MOH submit requests at least 10 working days prior to the end of the month.

Item 421 - Hydraulic Cement Concrete

Sulfate resistant cement concrete shall be used in all situations for structural elements in contact with the natural ground. These includes, but is not limited to, all reinforced concrete pipe, concrete box culverts, drill shafts, bridge columns, bridge abutments, wingwalls, approach slabs, inlets, manholes, junction boxes, ground boxes and all concrete riprap.

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Air entrainment is not required. If concrete is supplied with air entrainment, the concrete must adhere to the requirements of item 421.4.2.4.

Item 500 - Mobilization

"Materials-on-Hand" payments will not be considered in determining percentages used to compute mobilization payments.

This Contract includes callout work for Item 500 Mobilization. Mobilization in this Contract includes callout work.

Payment for non-emergency callouts shall be established as described below.

Item:	Code:	Item Description:	Unit:	Work Location:
500	6003	Mobilization (Callout 1)	EA	La Salle County
500	6004	Mobilization (Callout 2)	EA	Webb County

Item 500 6034 "MOBILIZATION (EMERGENCY)" will be used on work orders involving emergency situations. The Department will notify the Contractor if a situation requires an emergency call out. Respond within six (6) hours after notification of an emergency situation.

Item 502 - Barricades, Signs, and Traffic Handling

Designate, as the Contractor Responsible Person (CRP), an English speaking employee on-call nights and weekends (or any other time that work is not in progress) with a local address and telephone number for maintenance of signs and barricades. This employee will be located within one (1) hour of traveling time to the project site. Notify the Engineer in writing of the name, address and telephone number of this employee. Furnish this information to local law enforcement officials.

The time frame for the Contractor to provide properly maintained traffic control devices before they are considered to be in non-compliance with this Item, is 48 hours regardless of the days of the week involved after notification is done in writing by the Engineer.

When advanced warning flashing arrow panel(s) is/are specified, maintain one standby unit in good condition at the job site ready for immediate use is required.

Sheet G

Provide two-way radios in areas where flagmen do not have visual contact with one another or cannot communicate with one another. Limit lane closures to a maximum of 2 miles. If more than one lane closure location is desired, provide a minimum of a 2 mile passing zone between locations. Provide a separate sign set up for each location.

Ensure equipment not in use, stockpile aggregate, and other working materials are: A minimum of 30 feet from the edge of the travel lane;

Do not obstruct traffic or sight distance; Do not interfere with the access from abutting property; or Do not interfere with roadway drainage.

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

During the holiday time frame of December 21st through January 1st, every effort should be taken to ensure that all travel lanes remain open where possible.

Item 506 - Temporary Erosion, Sedimentation, and Environmental Controls

It is not anticipated that any erosion, sedimentation, or environmental control devices will be needed on this project. However, in the event that such controls are necessary, the SW3P for this project shall consist of the use of any temporary erosion control measures deemed necessary by the Engineer and as provided under this item. Payment for this work will be determined in accordance with Article 4.4, "Changes in the Work".

Item 636 - Signs

Salvage and deliver all aluminum sign faces to the local TxDOT maintenance office.

Item 644 - Small Roadside Sign Assemblies

Salvage and deliver all aluminum sign faces to the local TxDOT maintenance office.

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Item 647 - Large Roadside Sign Supports and Assemblies

Verify the length of the posts prior to ordering these materials in order to meet the existing field conditions and to conform to sign minimum mounting heights shown in the plans.

Item 6001 - Portable Changeable Message Sign

Provide electronic portable changeable message signs as required by the Engineer. Provide backups and keep operational and available on the jobsite at all times during traffic control operations. The electronic portable changeable message signs will be made available for utilization for the entire duration of the project, including all alternative locations.

Item 6185 - Truck Mounted Attenuator (TMA) and Trailer

Provide Truck Mounted Attenuators as required by the Engineer. Provide backup and keep operational and available on the jobsite at all times during traffic control operations. The Truck Mounted Attenuator will be made available for utilization for the entire duration of the project, including all alternative locations. Sheet 6



Estimate & Quantity Sheet

CONTROLLING PROJECT ID 6388-61-001

DISTRICT Laredo HIGHWAY IH0035 COUNTY Webb

		CONTROL SECTIO	IN JOB	6388-61	L-001		
	PROJECT ID			A00181	L288]	
	COUNTY		Web	b	TOTAL EST.	TOTAL FINAL	
		HIG	HWAY	IHOO	35	1	
ALT	BID CODE	DESCRIPTION	UNIT	EST.	FINAL	1	
	104-6009	REMOVING CONC (RIPRAP)	SY	30.000		30.000	
	416-6015	DRILL SHAFT (NON - REINFORCED) (12 IN)	LF	50.000		50.000	
	416-6018	DRILL SHAFT (SIGN MTS) (24 IN)	LF	200.000		200.000	
	432-6009	RIPRAP (CONC) (CL B) (4")	CY	25.000		25.000	
	500-6003	MOBILIZATION (CALLOUT 1)	EA	3.000		3.000	
	500-6004	MOBILIZATION (CALLOUT 2)	EA	2.000		2.000	
	500-6034	MOBILIZATION (EMERGENCY)	EA	2.000		2.000	
	636-6001	ALUMINUM SIGNS (TY A)	SF	50.000		50.000	
	636-6002	ALUMINUM SIGNS (TY G)	SF	2,000.000		2,000.000	
	636-6003	ALUMINUM SIGNS (TY O)	SF	100.000		100.000	
	636-6007	REPLACE EXISTING ALUMINUM SIGNS(TY A)	SF	50.000		50.000	
	636-6008	REPLACE EXISTING ALUMINUM SIGNS(TY G)	SF	500.000		500.000	
	636-6009	REPLACE EXISTING ALUMINUM SIGNS(TY O)	SF	100.000		100.000	
	644-6051	IN SM RD SN SUP&AM TYS80(2)SA(P-EXAL)	EA	3.000		3.000	
	644-6064	IN BRIDGE MNT CLEARANCE SGN ASSM(TY N)	EA	3.000		3.000	
	644-6065	IN BRIDGE MNT CLEARANCE SGN ASSM(TY S)	EA	3.000		3.000	
	644-6070	RELOCATE SM RD SN SUP&AM TY S80	EA	3.000		3.000	
	644-6072	RELOCATE BRDG MNT CLEARANCE SGN ASSM	EA	3.000		3.000	
	644-6076	REMOVE SM RD SN SUP&AM	EA	3.000		3.000	
	644-6077	REMOVE BRDG MNT CLEARANCE SIGN ASSM	EA	3.000		3.000	
	647-6001	INSTALL LRSS (STRUCT STEEL)	LB	10,000.000		10,000.000	
	647-6002	RELOCATE LRSA	EA	5.000		5.000	
	647-6003	REMOVE LRSA	EA	5.000		5.000	
	6001-6001	PORTABLE CHANGEABLE MESSAGE SIGN	DAY	10.000		10.000	
	6185-6002	TMA (STATIONARY)	DAY	10.000		10.000	
	08	LAW ENFORCEMENT	LS	1.000		1.000	



DISTRICT	COUNTY	CCSJ	SHEET
Laredo	Webb	6388-61-001	7

BARRICADE AND CONSTRUCTION (BC) STANDARD SHEETS GENERAL NOTES:

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

WORKER SAFETY NOTES:

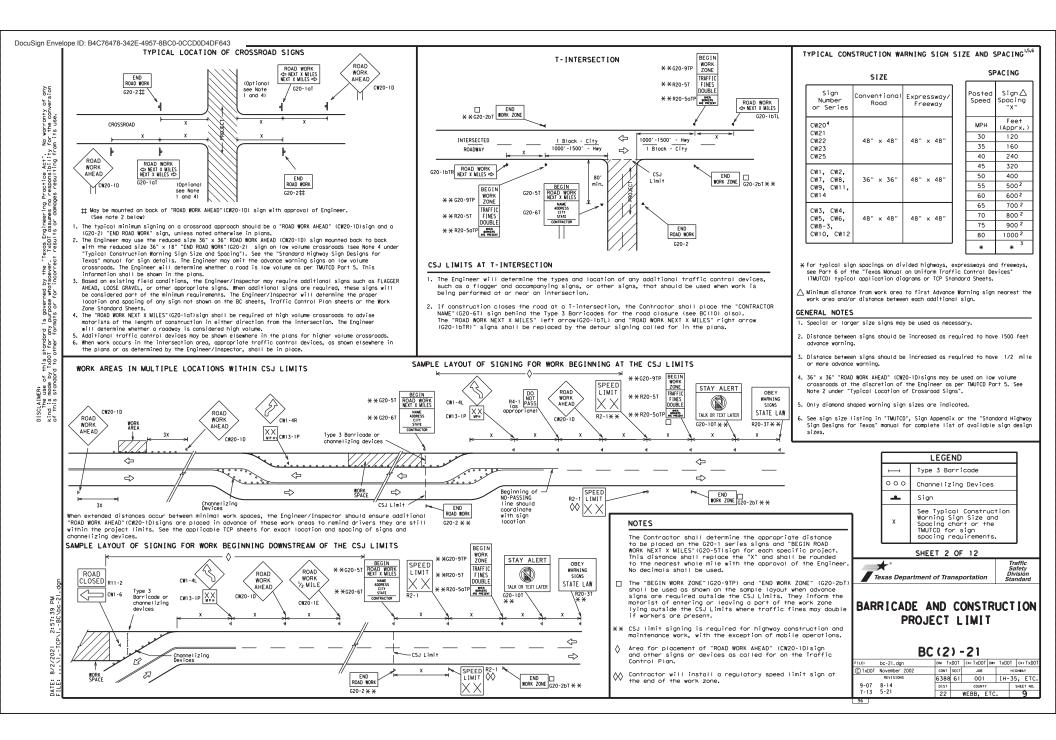
- Workers on foot who are exposed to traffic or to construction equipment within the right-of-way shall wear high-visibility safety apparel meeting the requirements of ISEA "American National Standard for High-Visibility Apparel," or equivalent revisions, and labeled as ANSI 107-2004 standard performance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

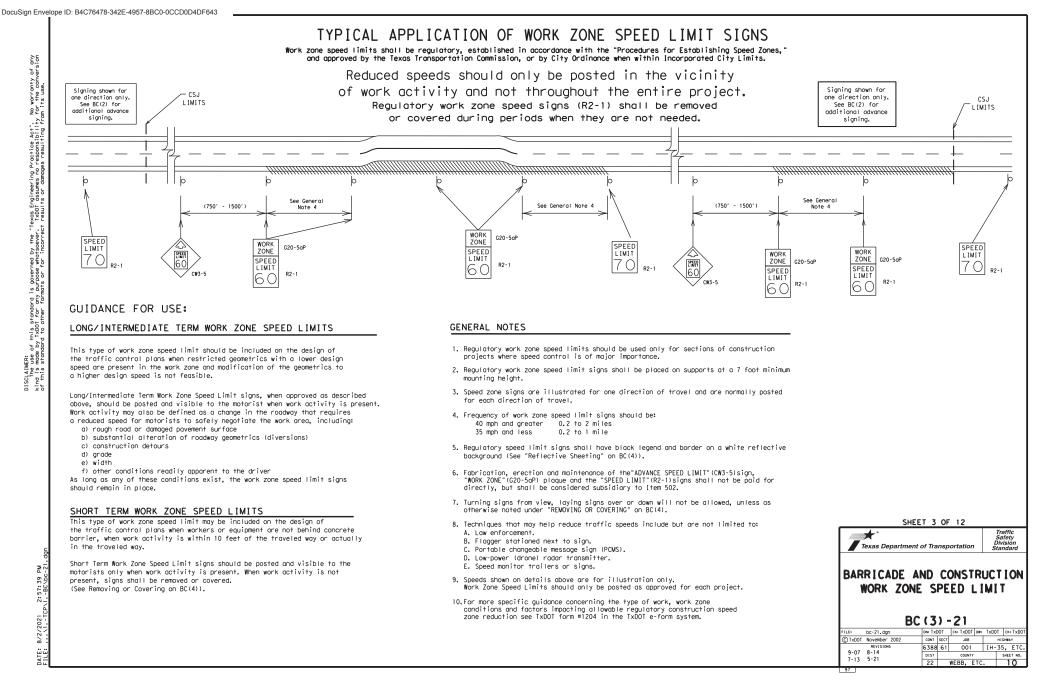
COMPLIANT WORKZONE TRAFFIC CONTROL DEVICES

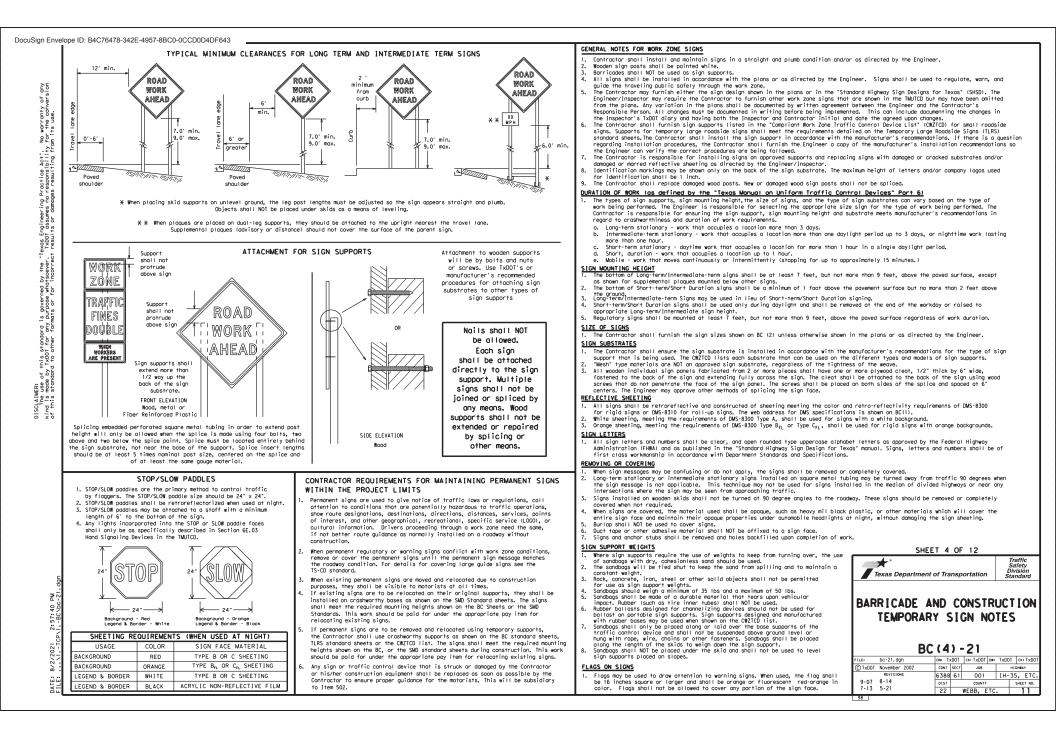
- Only pre-qualified products shall be used. The "Compliant Work Zone Traffic Control Devices List" (CWZTCD) describes pre-qualified products and their sources.
- Work zone traffic control devices shall be compliant with the Manual for Assessing safety Hardware (MASH).

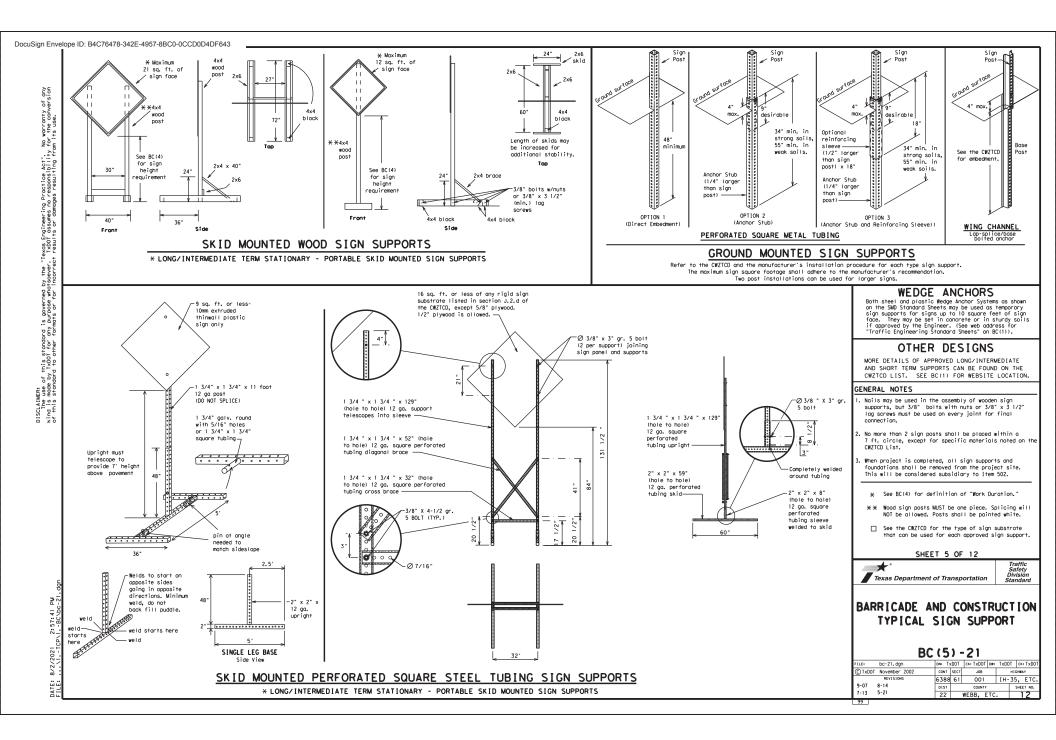
	AN BE FOUND ON-LINE AT w.txdot.gov
COMPLIANT WORK ZONE TRAFFIC	CONTROL DEVICES LIST (CWZTCD)
DEPARTMENTAL MATERIAL SPECIF	ICATIONS (DMS)
MATERIAL PRODUCER LIST (MPL)	
ROADWAY DESIGN MANUAL - SEE	"MANUALS (ONLINE MANUALS)"
STANDARD HIGHWAY SIGN DESIGN	S FOR TEXAS (SHSD)
TEXAS MANUAL ON UNIFORM TRAF	FIC CONTROL DEVICES (TMUTCD)
TRAFFIC ENGINEERING STANDARD	SHEETS

SHEE	T 1	OF	12			
Texas Department	of Tra	nsp	ortation	ć	Traffic Safety Division tandard	
BARRICADE AND CONSTRUCTION GENERAL NOTES AND REQUIREMENTS						
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CTxDOT November 2002	CONT	SECT	JOB		HIGHMAY	
4-03 7-13	6388	61	001	IH-	35, ETC.	
9-07 8-14	DIST		COUNTY		SHEET NO.	
5-10 5-21	22		WEBB, ETC		8	









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8/2/2021 DATE: 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.
- Use the word "EXIT" to refer to an exit ramp on a freeway; i.e., 4
- "EXIT CLOSED." Do not use the term "RAMP." 5. Always use the route or interstate designation (IH, US, SH, FM)
- along with the number when referring to a roadway. When in use, the bottom of a stationary PCMS message panel should be 6. a minimum 7 feet obove the roadway, where possible. 7. 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 avail-8. able 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.
- 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 Twis character hergin should be unsible from at least 10 inches for inches for inches for inches units. They should be visible from at least 12(c) 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.

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
		Road	RD
CROSSING	XING	Right Lane	RT LN
Detour Route	DETOUR RTE	Saturday	SAT
Do Not	DONT	Service Road	SERV RD
East	E	Shoulder	SHLDR
Eastbound	(route) E	Slippery	SL IP
Emergency	EMER	South	S
Emergency Vehicle		Southbound	(route) S
Entrance, Enter	ENT	Speed	SPD
Express Lane	EXP LN	Street	ST
Expressway	EXPWY	Sunday	SUN
XXXX Feet	XXXX FT	Telephone	PHONE
Fog Ahead	FOG AHD	Temporary	TEMP
Freeway	FRWY, FWY	Thursday	THURS
Freeway Blocked	FWY BLKD	To Downtown	TO DWNTN
Friday	FRI	Traffic	TRAF
Hazardous Driving		Travelers	TRVLRS
Hazardous Material		Tuesday	TUES
High-Occupancy	HOV	Time Minutes	TIME MIN
Vehicle	HWY	Upper Level	UPR LEVEL
Highway		Vehicles (s)	VEH. VEHS
Hour (s)	HR, HRS	Warning	WARN
Information	INFO	Wednesday	WED
It Is	ITS	Weight Limit	WT LIMIT
Junction	JCT	West	W
Left	LFT	Westbound	(route) W
Left Lane	LFT LN	Wet Pavement	WET PVMT
Lane Closed	LN CLOSED	Will Not	WONT
Lower Level	LWR LEVEL		
Maintenance	MAINT		

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

Ac

Phase 2: Possible Component Lists

Road/Lane/Ramp Closure List Other Condition List FRFFWAY FRONTAGE ROADWORK ROAD REPAIRS CLOSED. ROAD XXX FT X MILE CLOSED XXXX FT ROAD SHOULDER EL AGGER I ANF NARROWS CLOSED. CLOSED. XXXX FT AT SH XXX XXX FT XXXX FT ROAD RIGHT LN RIGHT IN TWO-WAY TRAFFIC CLSD AT CLOSED. NARROWS XXX FT FM XXXX XXXX FT XX MILE RIGHT X RIGHT X MERGING CONST I ANES I ANES TRAFFIC TRAFFIC CLOSED. OPEN XXXX FT XXX FT CENTER DAYTIME LOOSE LINEVEN I ANF I ANF GRAVEL IANES CLOSURES XXXX FT CLOSED XXXX FT NIGHT I-XX SOUTH DETOUR ROUGH LANE EXIT X MILE ROAD CLOSURES CLOSED. XXXX FT VARIOUS EXIT XXX ROADWORK ROADWORK LANES CLOSED PAST NEXT CLOSED X MILE SH XXXX FRI-SUN EXIT RIGHT LN BUMP US XXX CLOSED TO BE XXXX FT EXIT CLOSED X MILES MALL X LANES TRAFFIC LANES DRIVEWAY CLOSED SIGNAL SHIFT CLOSED TUE - FRI XXXX FT XXXXXXXX BLVD ¥ LANES SHIFT in Phase 1 must be used with STAY IN LANE in Phase 2. CLOSED

Phase 1: Condition Lists

	e∕E Lis	ffect on Trav st	ve I	Location List
MERGE RIGHT		FORM X LINES RIGHT		AT FM XXXX
DETOUR NEXT X EXITS		USE XXXXX RD EXIT		BEFORE RAILROAD CROSSING
USE EXIT XXX		USE EXIT I-XX NORTH		NEXT X MILES
STAY ON US XXX SOUTH		USE I-XX E TO I-XX N		PAST US XXX EXIT
TRUCKS USE US XXX N		WATCH FOR TRUCKS		XXXXXXX TO XXXXXXX
WATCH FOR TRUCKS		EXPECT DELAYS		US XXX TO FM XXXX
EXPECT DELAYS		PREPARE TO STOP		
REDUCE SPEED XXX FT		END SHOULDER USE		
USE OTHER ROUTES		WATCH FOR WORKERS		
STAY IN LANE	*			* ;

**Advance Notice List
TUE-FRI XX AM- X PM
APR XX- XX X PM-X AM
BEGINS MONDAY
BEGINS MAY XX
MAY X-X XX PM - XX AM
NEXT FRI-SUN
XX AM TO XX PM
NEXT TUE AUG XX
TONIGHT XX PM- XX AM

* See Application Guidelines Note 6.

Warnina

List

SPEED

LIMIT

XX MPH

MAXIMUM

SPEED

XX MPH

MINIMUM

SPEED

XX MPH

ADVISORY

SPEED

XX MPH

RIGHT

I ANF

EXIT

USE

CAUTION

DRIVE

SAFELY

DRIVE

WITH

CARE

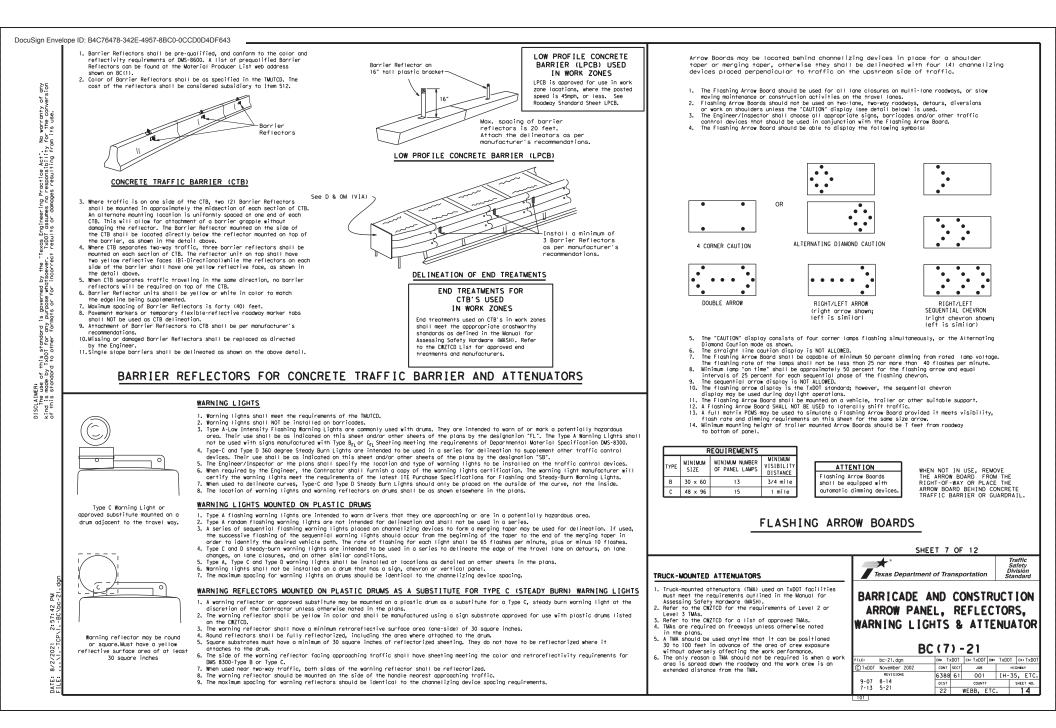
APPLICATION GUIDELINES

- 1. Only 1 or 2 phases are to be used on a PCMS.
- The 1st phase (or both) should be selected from the "Road/Lane/Romp 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.
- 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.
- r 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

WORDING ALTERNATIVES

- The words RIGHT, LEFT and ALL can be interchanged as appropriate.
 Roadway designations IH, US, SH, FM and LP can be interchanged as
- oppropriate.
- 3. EAST, WEST, NORTH and SOUTH (or abbreviations E, W, N and S) can
- be interchanged as appropriate.
- 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.
- FT and MI, MILE and MILES interchanged as appropriate.
 AT, BEFORE and PAST interchanged as needed.
- 9. Distances or AHEAD can be eliminated from the message if a location phase is used.

	STLEET SI	no more than one week prior to the work.	
EXPWY	Sunday SUN		SHEET 6 OF 12
FOG AHD	Telephone PHO		Traffic
FOG AND	Temporary TEM		Safety
ed FWY BLKD	Thursday THU		Division
FRI	To Downtown TO I Traffic TRA		Texas Department of Transportation Standard
ving HAZ DRIVING			
terial HAZMAT	Travelers TRV		
cy HOV			BARRICADE AND CONSTRUCTION
HWY		I FUEL OF THE FIELD OF THE FUEL OF THE FUEL OF THE FUEL OF THE FUEL	
		SHOULD BE PLACED WITH ONE DRUM AT EACH OF THE FOUR CORNERS OF THE UNIT.	I PORTABLE CHANGEABLE
HR, HRS	Warning WAR		
INFO	Wednesday WED		MESSAGE SIGN (PCMS)
JCT		INIT	-
LFT	West W		
LFT LN			BC (6) - 21
LN CLOSED			FILE: DC-21.dgn DN: TxDOT CK: TxDOT DW: TxDOT CK: TxDOT
LWR LEVEL	Will Not WON	 When symbol is insome represented graphically on the Full Matrix POMS, they shall only supplement the use of the static sign represented, and shall not substitution. 	
MAINT		for, or replace that sign.	
		4. A full matrix POMS may be used to simulate a flashing arrow board provided it meets the visibility, flash rate and dimming requirements on BC(7), for the	
IH-number US-num	nber, SH-number, FM-number		
in number, 05 hui	iden , on namber , na namber		7-13 5-21 22 WEBB, ETC. 13
			100



GENERAL NOTES

- 1. For long term stationary work zones on freeways, drums shall be used as the primary channelizing device.
- 2. For intermediate term stationary work zones on freeways, drums should be used as the primary channelizing device but may be replaced in tangent sections by vertical panels, or 42" two-piece cones. In tangent sections, one-piece cones may be used with the approval of the Engineer but only
- if personnel are present on the project at all times to maintain the cones in proper position and location. 3. For short term stationary work zones on freeways, drums are the preferred
- channelizing device but may be replaced in tapers, transitions and tangent sections by vertical panels, two-piece cones or one-piece cones as approved by the Engineer.
- Drums and all related items shall comply with the requirements of the current version of the "Texas Manual on Uniform Traffic Control Devices" (TMUTCD) and the "Compliant Work Zone Traffic Control Devices List" (CWZTCD).
- 5. Drums, bases, and related materials shall exhibit good workmanship and shall be free from objectionable marks or defects that would adversely affect their appearance or serviceability.
- 6. The Contractor shall have a maximum of 24 hours to replace any plastic drums identified for replacement by the Engineer/Inspector. The replacement device must be an approved device.

GENERAL DESIGN REQUIREMENTS

- Pre-qualified plastic drums shall meet the following requirements:
- Plastic drums shall be a two-piece design; the "body" of the drum shall be the top portion and the "base" shall be the bottom.
- The body and base 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

- 1. The stripes used on drums shall be constructed of sheeting meeting the The simples based on drabins sharing declaring bindering integring 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 detaminating, cracking, or loss of retroreflectivity other than that loss due to abrasion of the sheeting surface.

BALLAST

M

44

2:57:

3/2/202

DATE:

- 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 sandbaas separate from the base, sand in a sand-filled plastic base, or other ballasting devices as approved by the Engineer. Stacking of sandbaas will be allowed, however height of sandbaas above pavement
- surface may not exceed 12 inches. 2. Bases with built-in ballast shall weigh between 40 lbs, and 50 lbs. Built-in ballast can be constructed of an integral crumb rubber base or a solid rubber base.
- Recycled truck the sidewalls may be used for ballast on drums approved for this type of ballast on the CWZTCD list. 3
- 4. The ballast shall not be beavy objects, water, or any material that would become hazardous to motorists, pedestrians, or workers when the drum is struck by a vehicle.
- 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.
- Ballast shall not be placed on top of drums.
- Adhesives may be used to secure base of drums to pavement.

6 h debris worning Lights 4" max_ 4" min 8" max Each drum shall have (typ)a minimum of 2 orange and 2 white stripes using Type A or Type B retroreflective 2" max sheeting with the top stripe being (typ.) orange. Toper to allow for stacking a See Ballast minimum of 5 drums Note 3 This detail is not intended for fabrication. See note 3 and the CWZTCD list for

9/16" dia. (typ)

for mounting

signs and

providers of approved Detectable Pedestrian Barricades -Continuous smooth rail for hand trailing 36 Detectable Edge 2" Max

DETECTABLE PEDESTRIAN BARRICADES

18" min

Handle -

Top should not

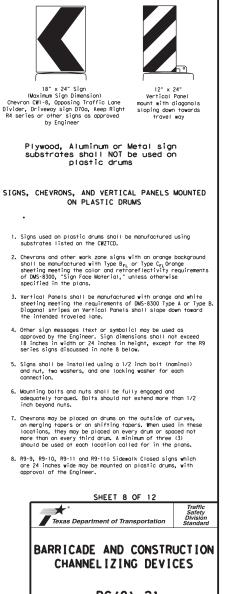
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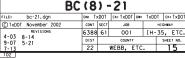
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36"

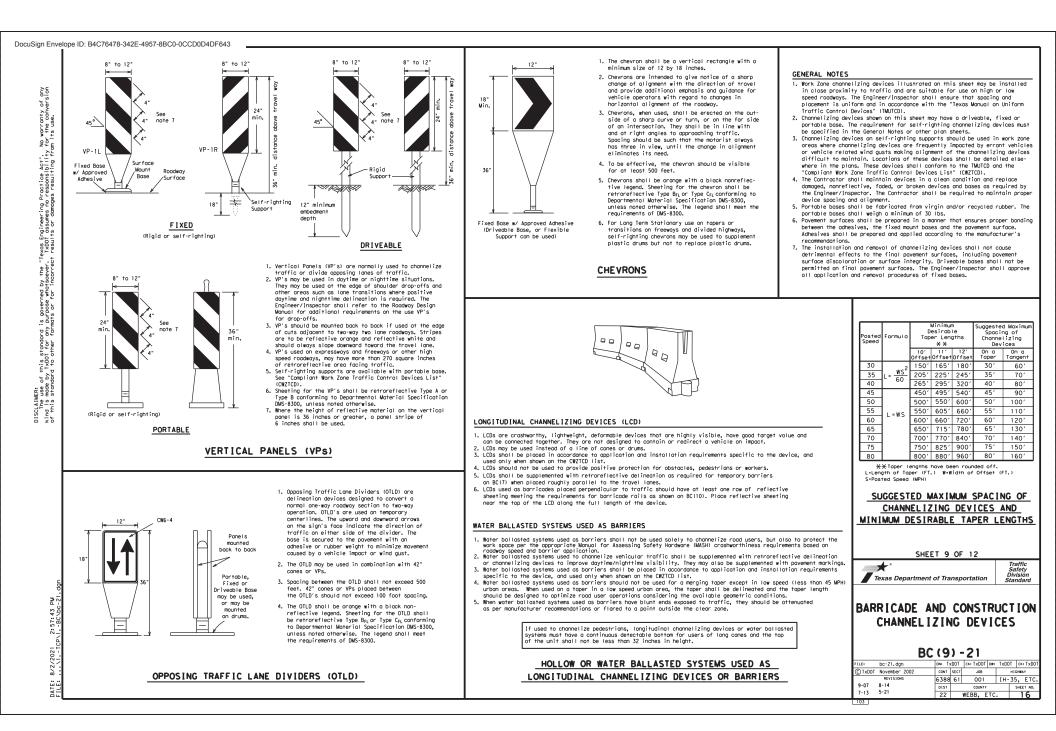
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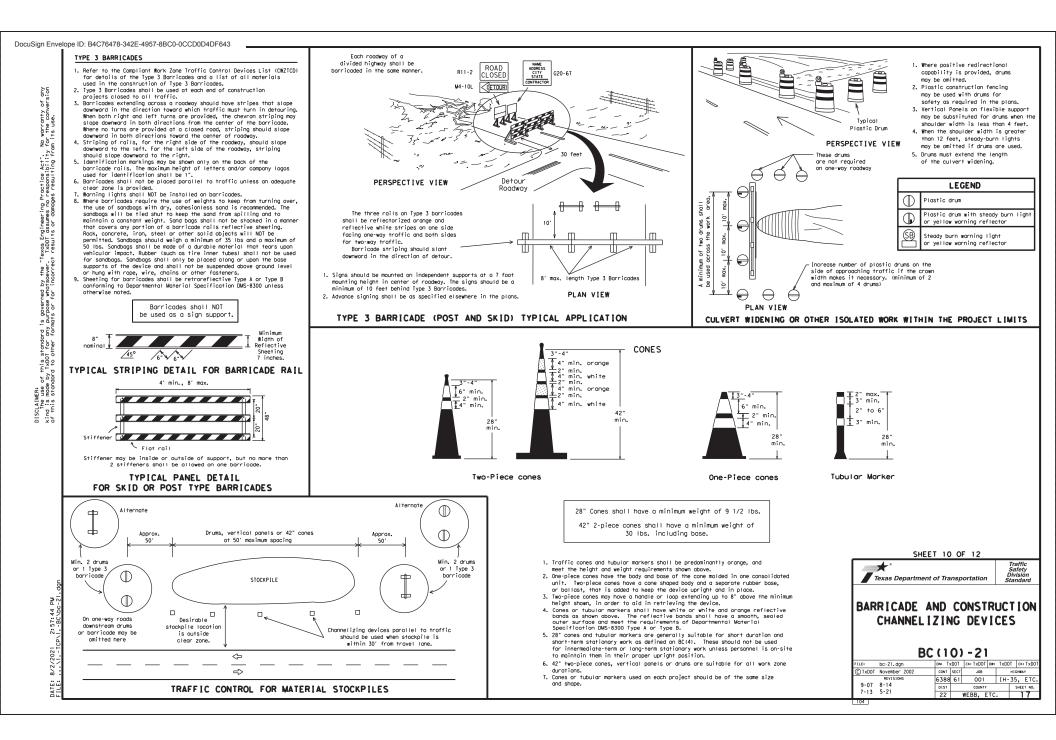
- When existing pedestrian facilities are disrupted, closed, or relocated in a TTC zone, the temporary facilities shall be detectable and include accessibility features consistent with the features present in the existing pedestrian facility. Refer to WZ(BIS-2) for Pedestrian Control requirements for Sidewalk Diversions, Sidewalk Detours and Crosswalk Closures, 2. Where pedestrians with visual disabilities normally use the
- closed sidewalk, a Detectable Pedestrian Barricade shall be placed across the full width of the closed sidewalk instead of a Type 3 Barricade. 3. Detectable pedestrian barricades similar to the one pictured
- above, longitudinal channelizing devices, some concrete barriers, and wood or chain link fencing with a continuous detectable edging can satisfactorily delineate a pedestrian
- Tape, rope, or plastic chain strung between devices are not detectable, do not comply with the design standards in the "Americans with Disabilities Act Accessibility Guidelines (ADAAG)" and should not be used as a control for pedestrian movements
- 5. Worning lights shall not be attached to detectable pedestrian barricades. 6.
- Detectoble pedestrian barricades should use 8" nominal barricade rails as shown on BC(10) provided that the top rail provides a smooth continuous rail suitable for hand trailing with no splinters, burrs, or sharp edges.





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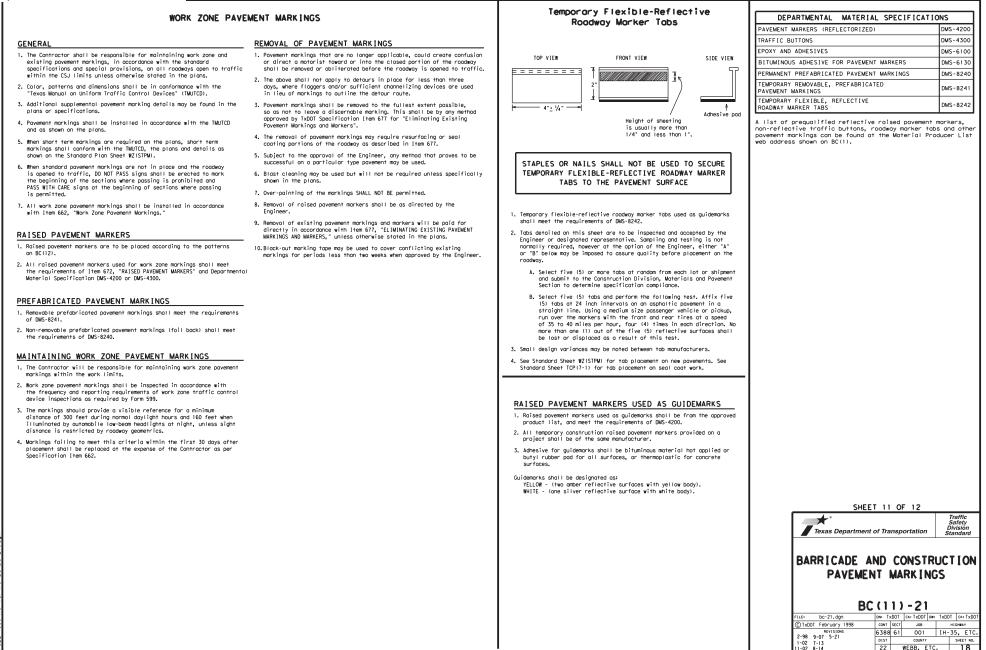


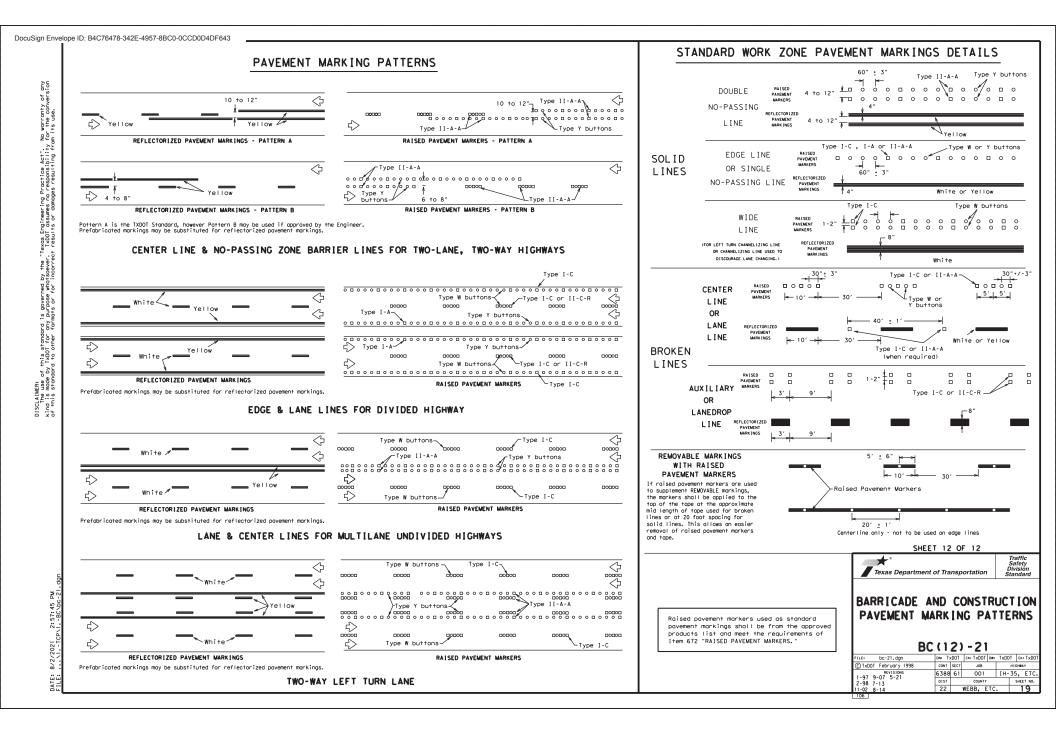
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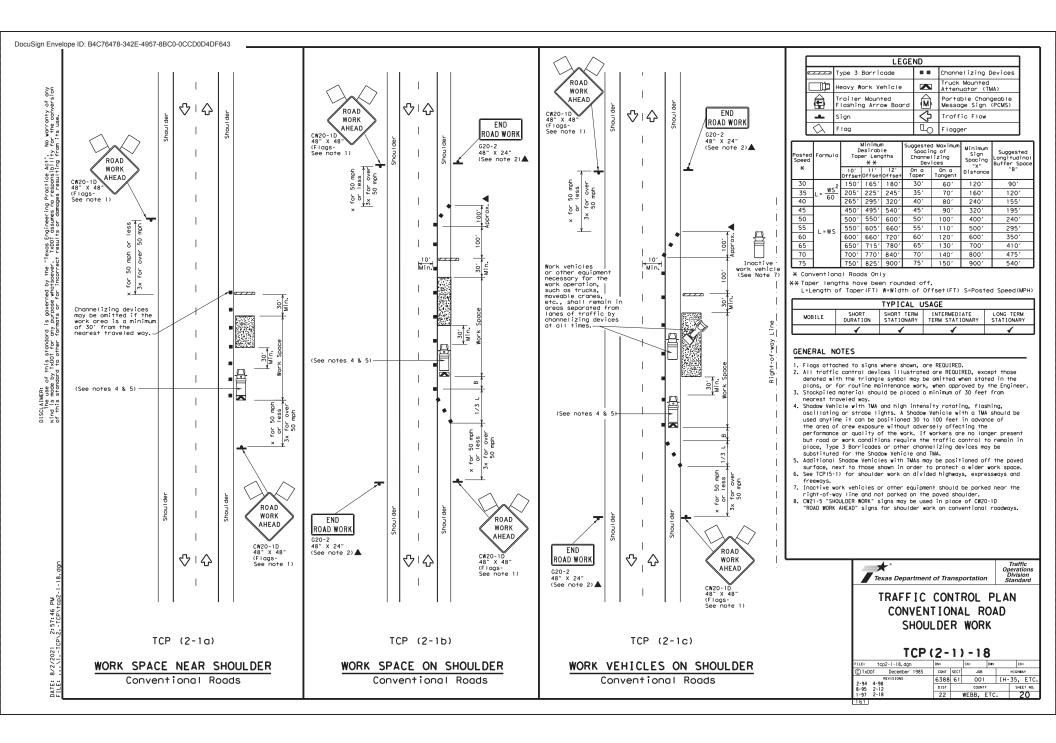
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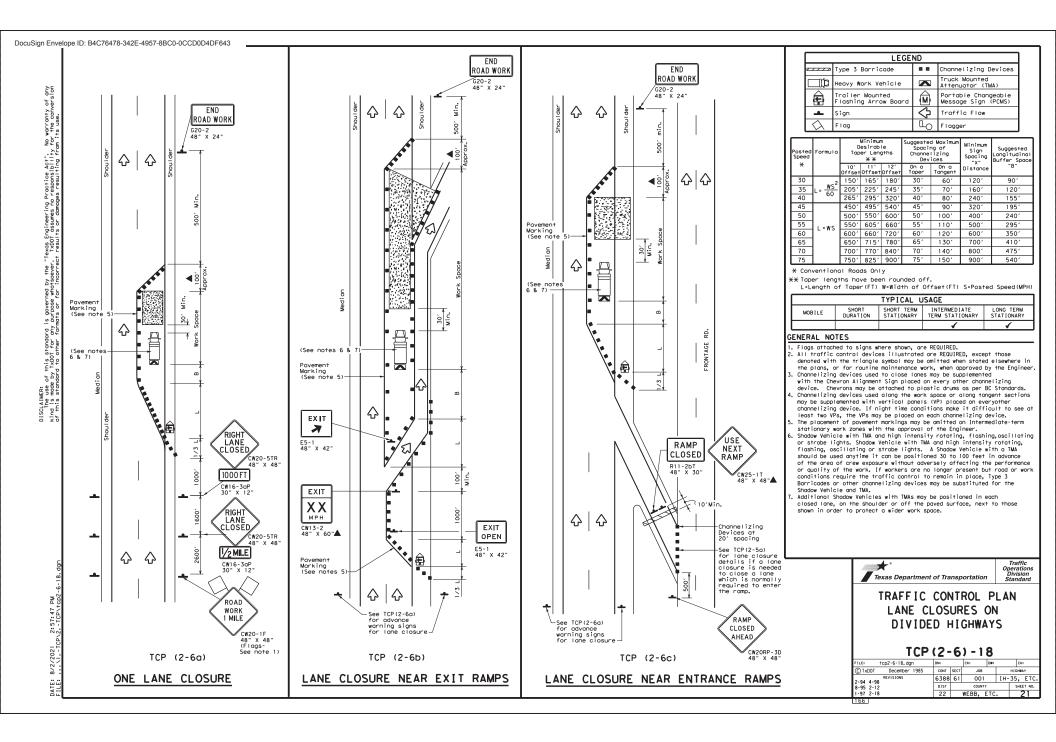
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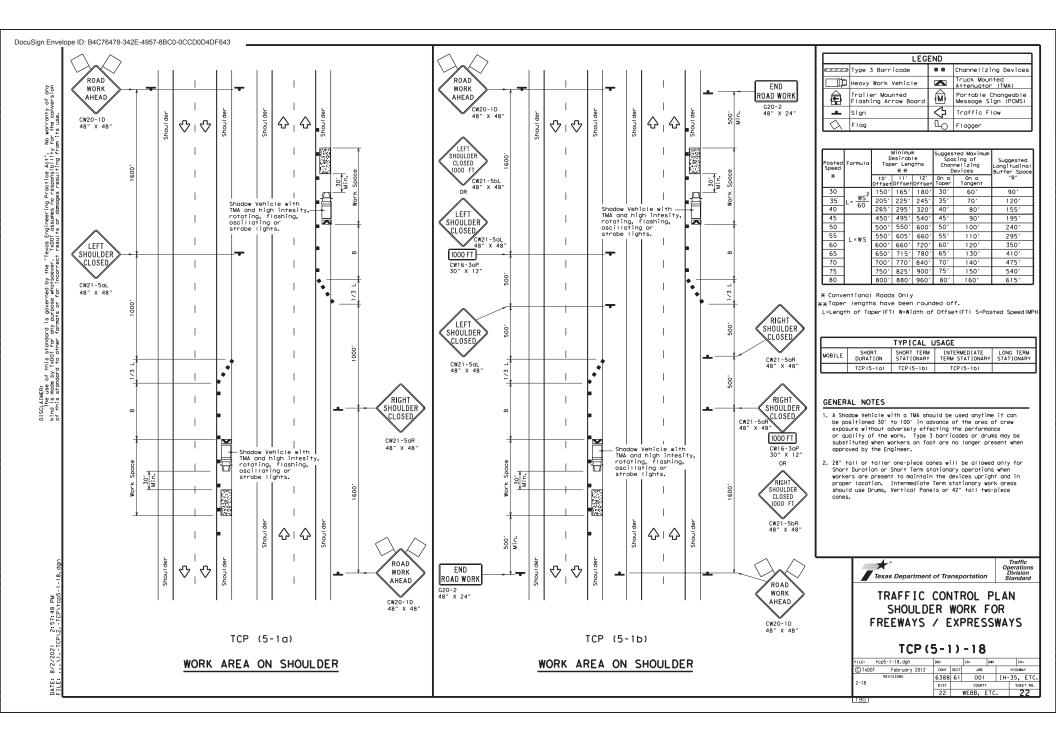
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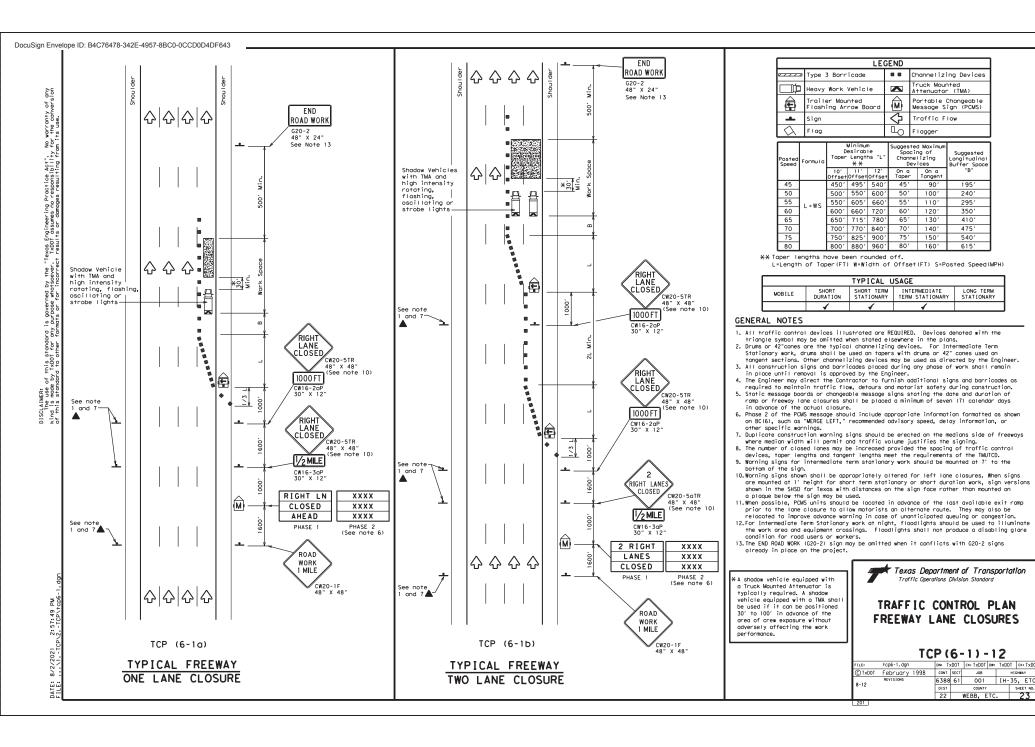


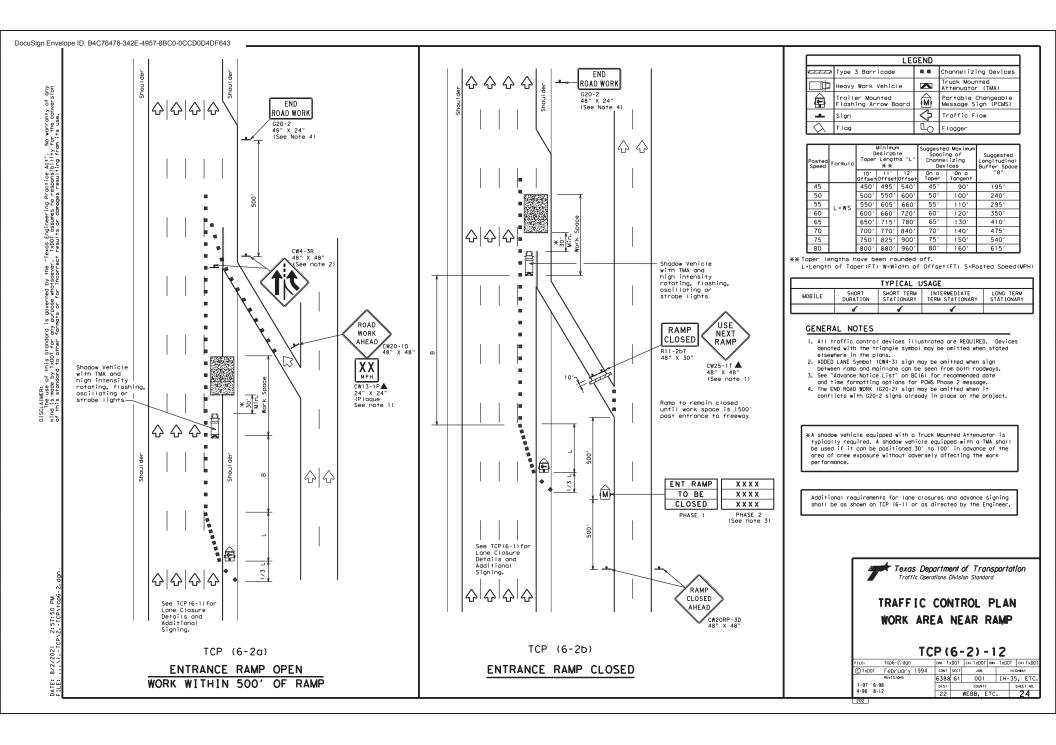


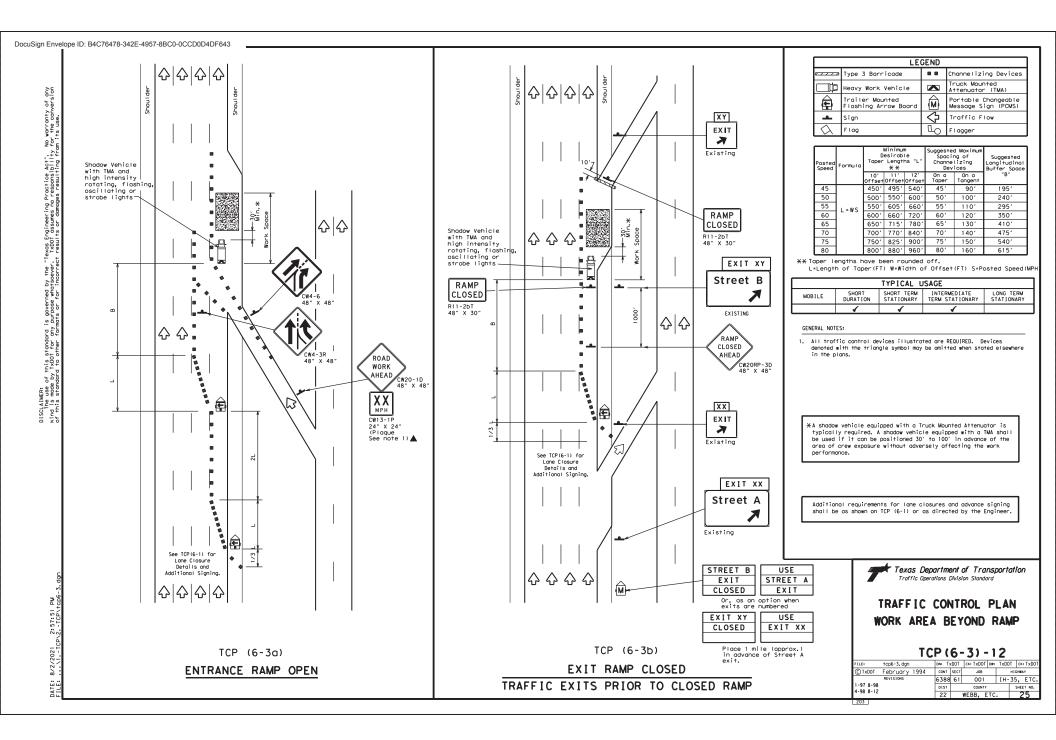


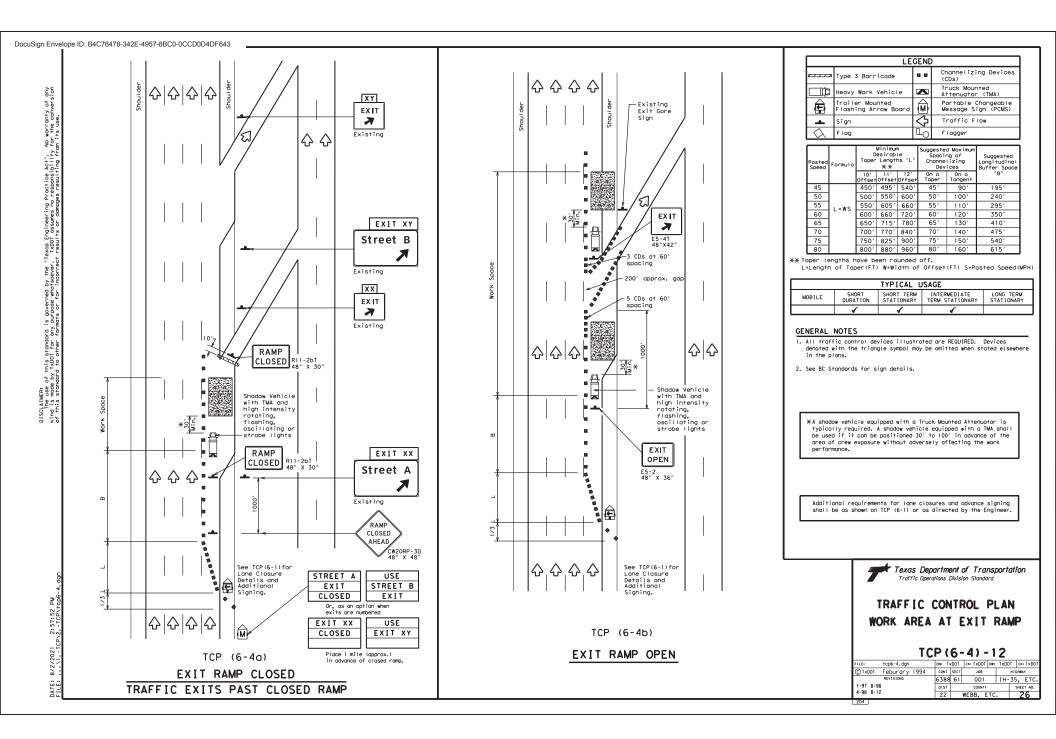


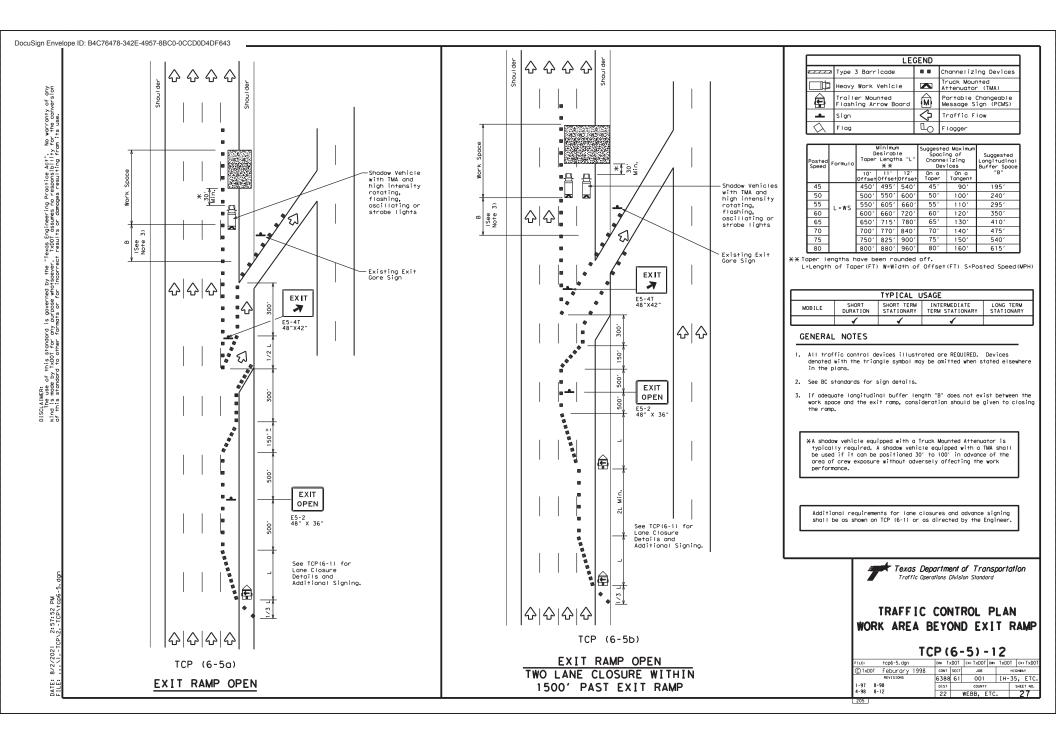


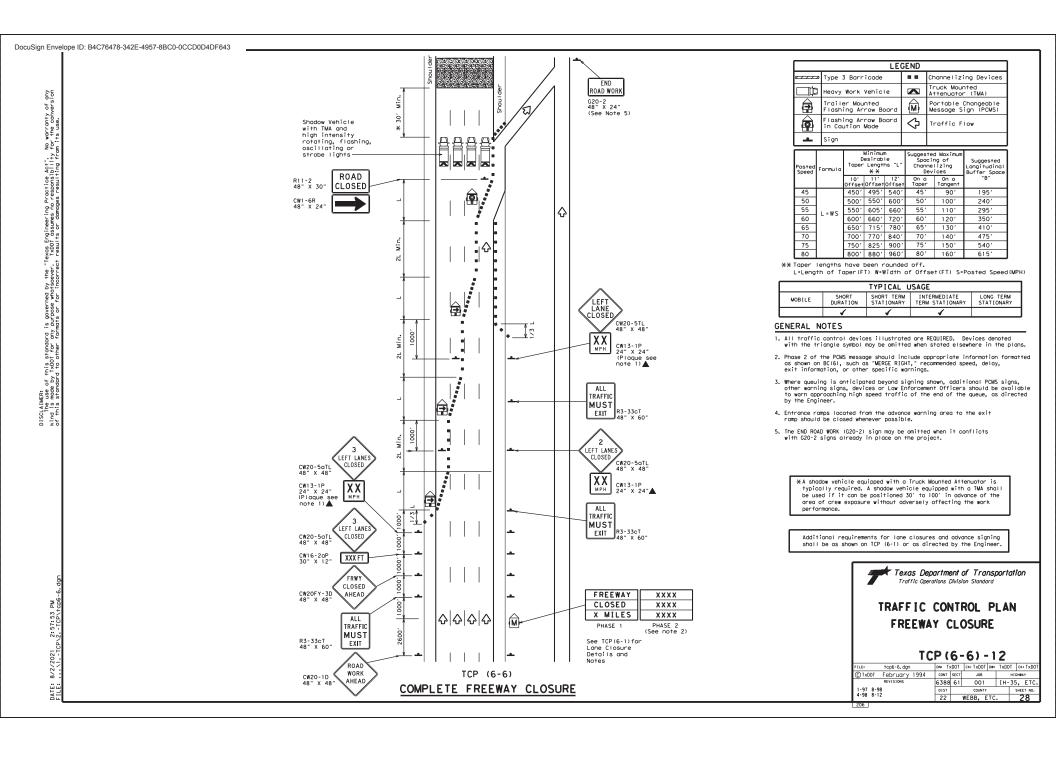


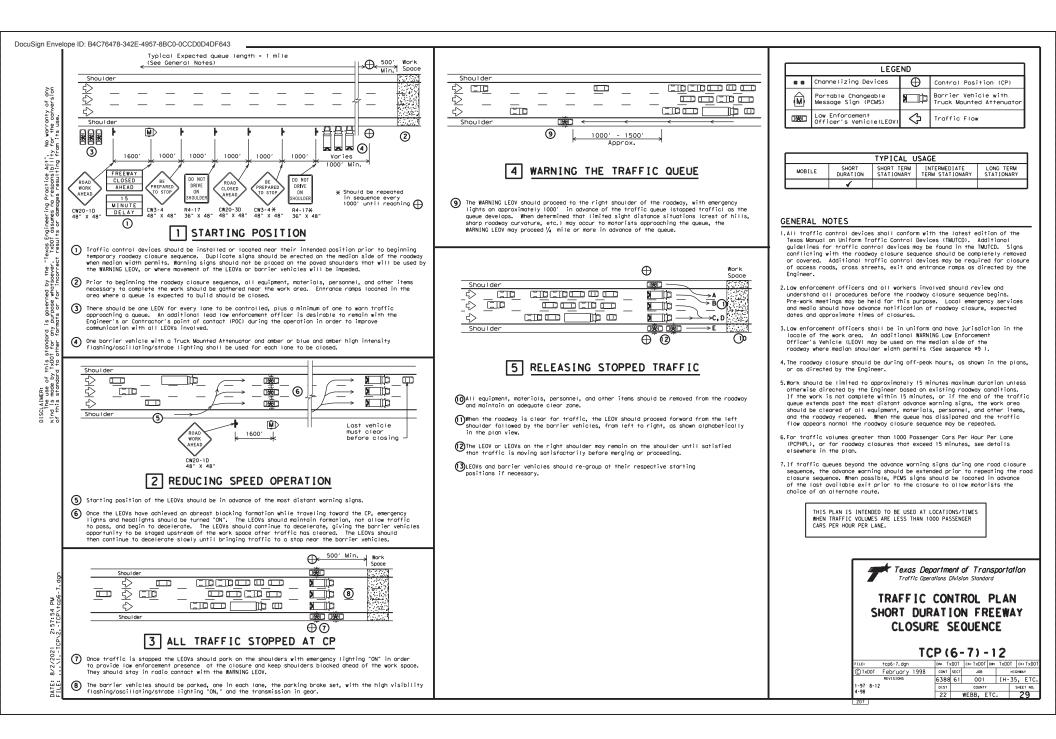


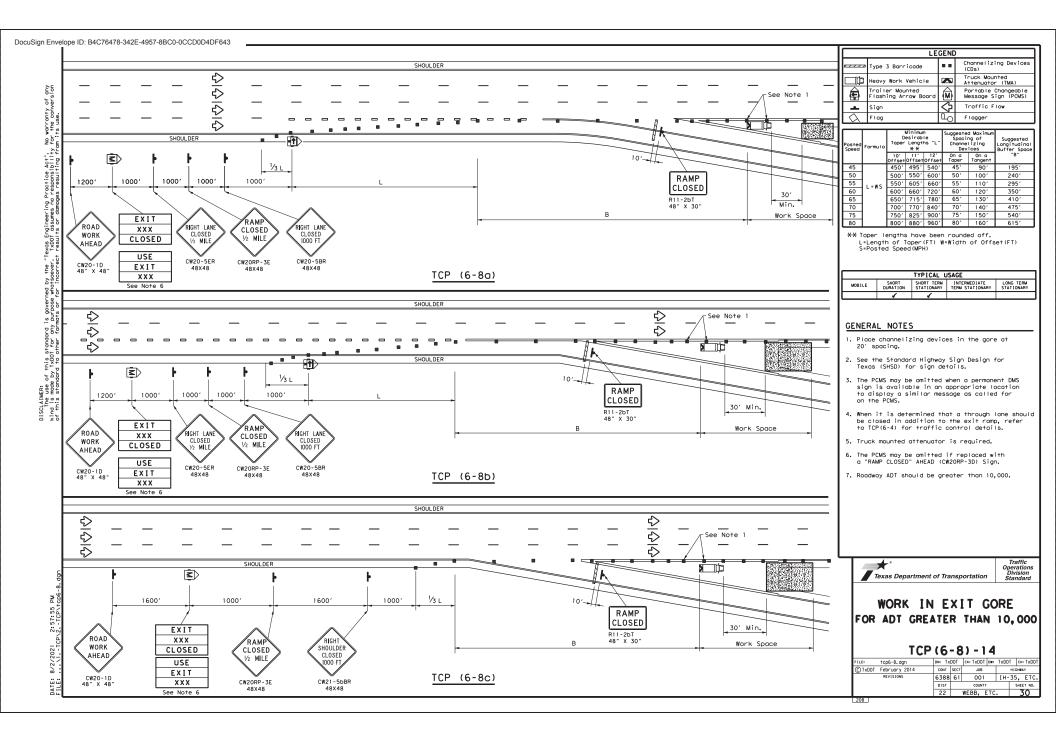


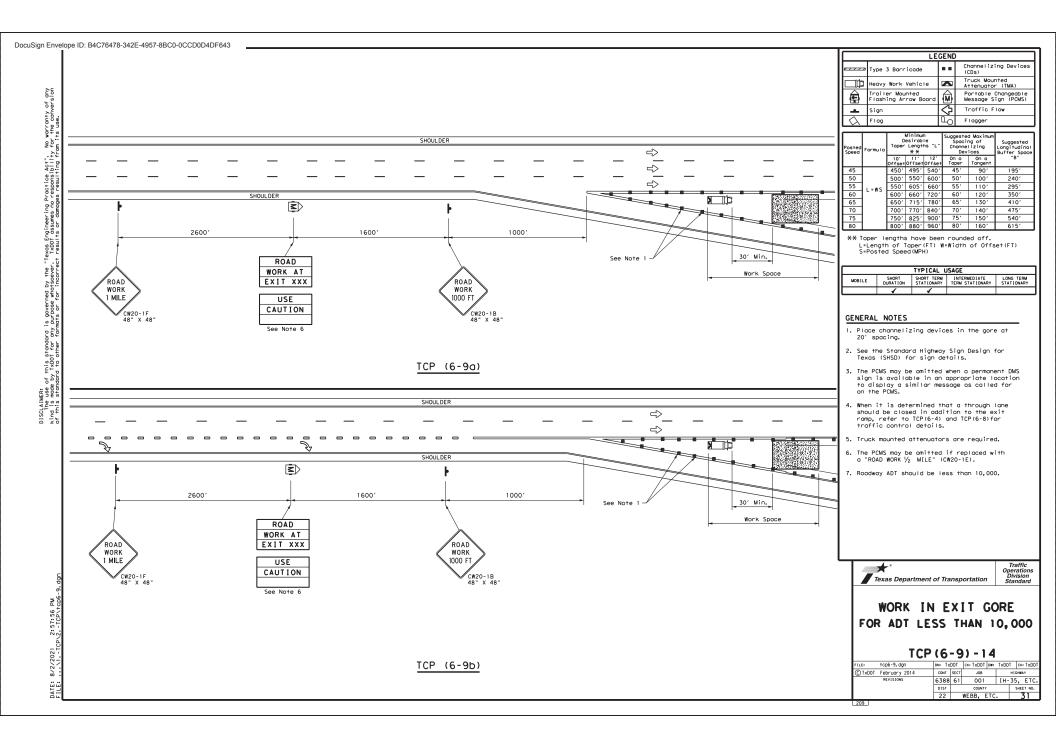


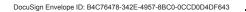


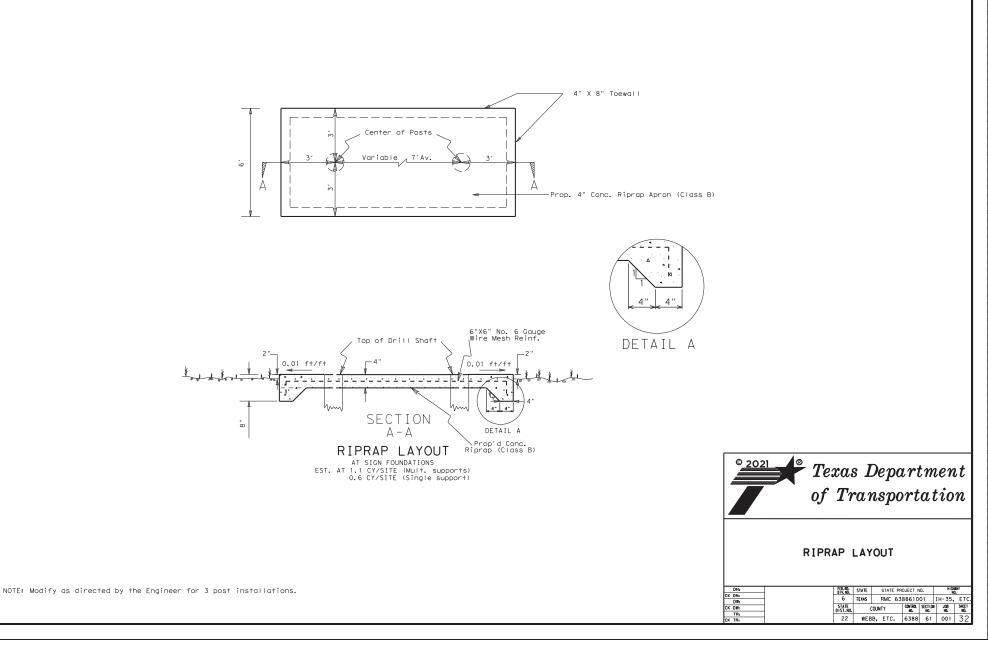




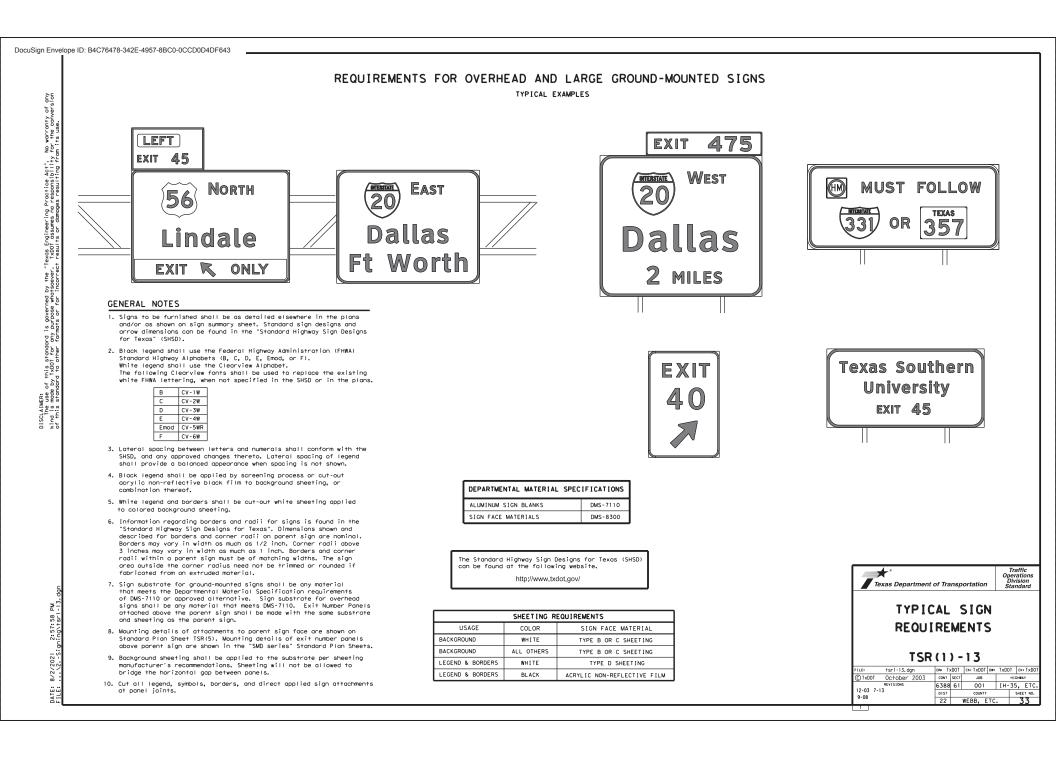


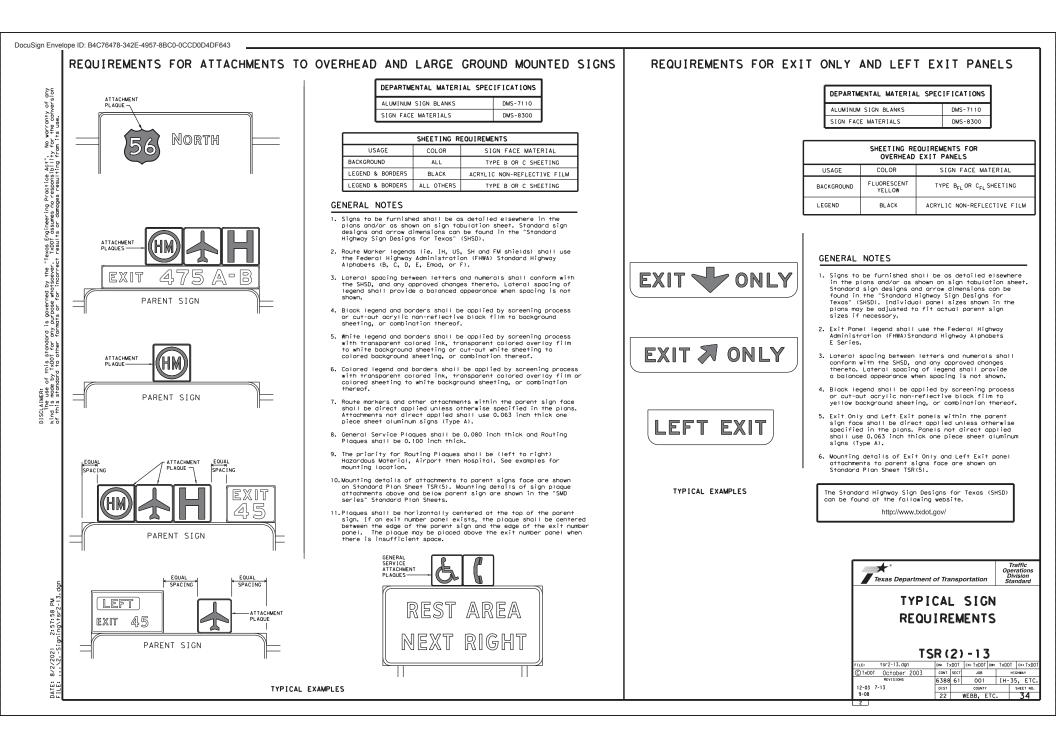






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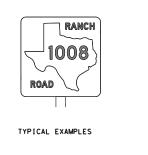


REQUIREMENTS FOR INDEPENDENT MOUNTED ROUTE SIGNS

SH	SHEETING REQUIREMENTS					
USAGE	COLOR	SIGN FACE MATERIAL				
BACKGROUND	WHITE	TYPE A SHEETING				
BACKGROUND	ALL OTHERS	TYPE B OR C SHEETING				
LEGEND & BORDERS	WHITE	TYPE A SHEETING				
LEGEND & BORDERS	BLACK	ACRYLIC NON-REFLECTIVE FILM				
LEGEND & BORDERS	ALL OTHERS	TYPE B or C SHEETING				

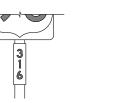






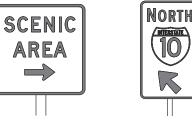
REQUIREMENTS FOR BLUE, BROWN & GREEN D AND I SERIES GUIDE SIGNS

SHEETING REQUIREMENTS				
USAGE	COLOR	SIGN FACE MATERIAL		
BACKGROUND	ALL	TYPE B OR C SHEETING		
LEGEND & BORDERS	WHITE	TYPE D SHEETING		
LEGEND, SYMBOLS & BORDERS	ALL OTHERS	TYPE B OR C SHEETING		





MILE





TYPICAL EXAMPLES

GENERAL NOTES

- Signs to be furnished shall be as detailed elsewhere in the plans and/or as shown on sign tobulation sheet. Standard sign designs and arrow dimensions can be found in the "Standard Highway Sign Designs for Texas" (SHSD).
- 2. White legend shall use the Clearview Alphabet. The following Clearview fonts shall be used to replace the existing white Federal Highway Administration (FHWA) Standard Highway Alphabets, when not specified in the SHSD, or in the plans.



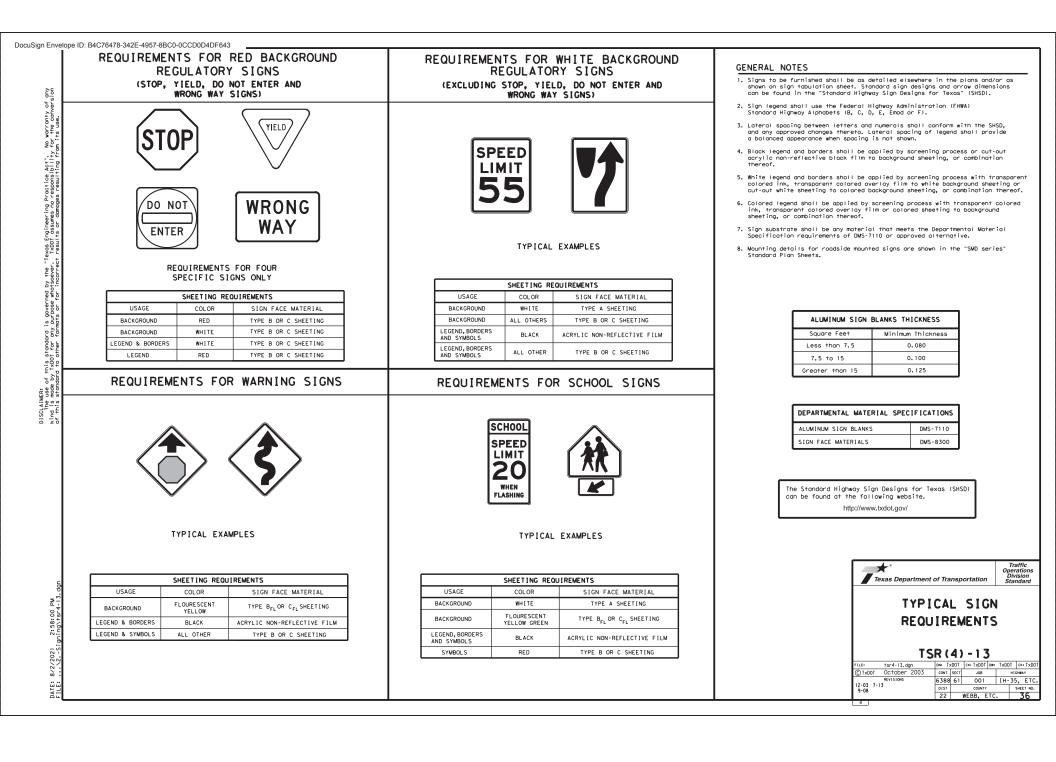
- Route sign legend (ie. IH, US, SH and FM shields) shall use the Federal Highway Administration (FHWA) Standard Highway Alphabets B, C, D, E, Emod or F).
- 4. Lateral spacing between letters and numerals shall conform with the SHSD, and any approved changes thereto. Lateral spacing of legend shall provide a balanced appearance when spacing is not shown.
- 5. Independent mounted route sign with white or colored legend and borders shall be applied by screening process with transparent color ink, transparent colored overlay film to white background sheeting or cut-out white sheeting to colored background sheeting, or combination thereof. White legend, symbols and borders on all other signs shall be cut-out white sheeting applied to colored background sheeting.
- 6. Information regarding borders and radii for signs is found in the "Standard Highway Sign Designs for Texas". Dimensions shown and described for borders and corner radii on parent sign are naminal. Borders may vary in width as much as 1/2 inch. Corner radii above 3 inches may vary in width as much as 1 inch. Borders and corner radii within a parent sign must be of matching widths. The sign area outside the corner radius should be trimmed or rounded.
- Sign substrate shall be any material that meets the Departmental Material Specification requirements of DMS-7110 or approved alternative.
- 8. Mounting details of roadside signs are shown in the "SMD series" Standard PIan Sheets.

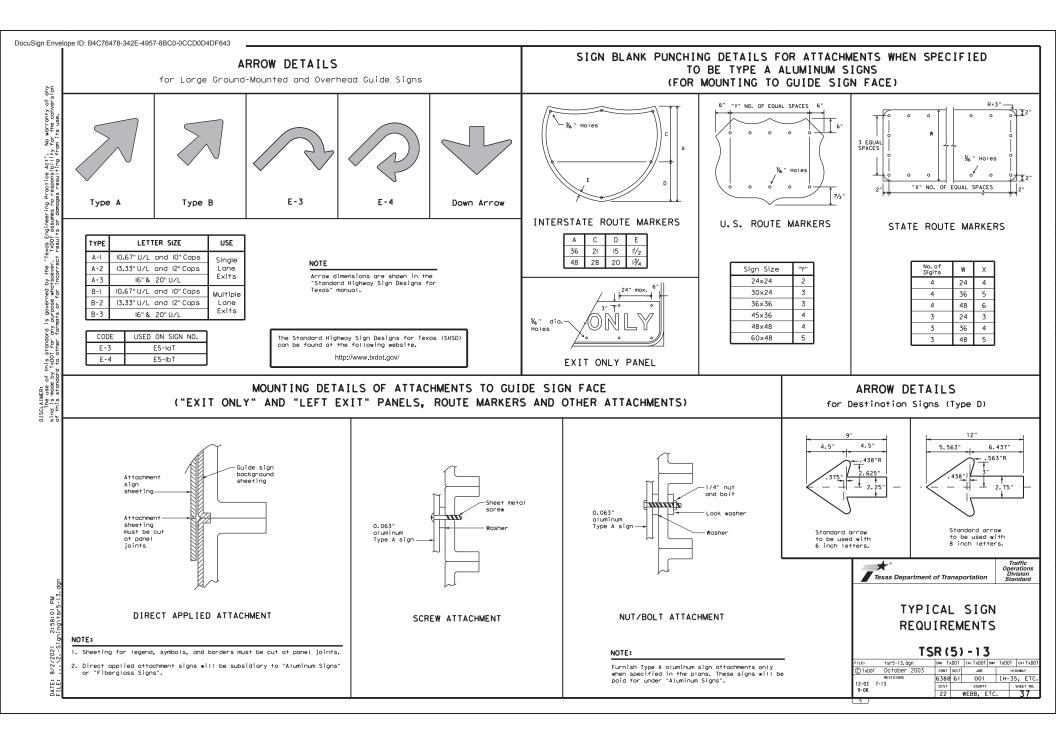
	ALUMINUM SIGN BLANKS		DMS-7110	-	
	SIGN FACE MATERIALS		DMS-8300		
	ALUMINUM SIGN I	BLANKS THI	CKNESS	1	
	Square Feet	Minimum	Thickness	1	
	Less than 7.5	0.	080	1	
	7.5 to 15	0.100		1	
	Greater than 15	0.	125]	
l	can be found at the fol http://www	lowing websi w.txdot.gov/	ite.		
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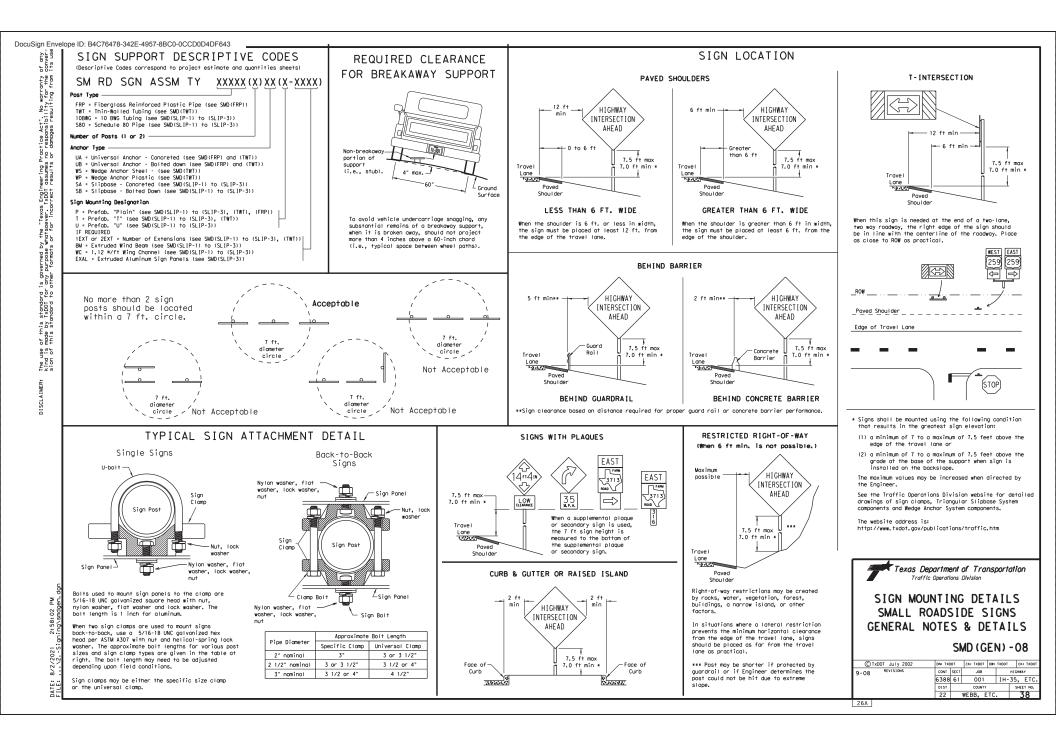
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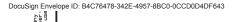
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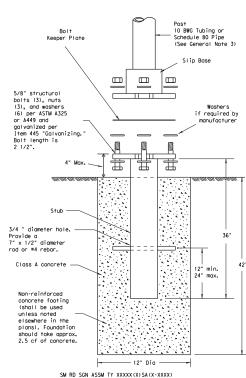








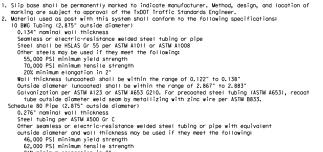
TRIANGULAR SLIPBASE INSTALLATION GENERAL REQUIREMENTS



NOTE

There are various devices approved for the Triangular Slipbase System. Please reference the Material Producer List for approved slip base systems. http://www.txdot.gov/business/producer list.htm The devices shall be installed per manufacturers' recommendations. Installation procedures shall be provided to the Engineer by Contractor.

GENERAL NOTES:



21% minimum elongation in 2"

Wall thickness (uncoated) shall be within the range of 0,248" to 0,304" Outside diameter (uncoated) shall be within the range of 2.855" to 2.895" Galvanization per ASTM A123

- See the Traffic Operations Division website for detailed drawings of sign clamps and Texas Universal Triangular Slipbase System components. The website address is:
- http://www.txdot.gov/publications/traffic.htm 4. Sign supports shall not be spliced except where shown. Sign support posts shall not be spliced.

ASSEMBLY PROCEDURE

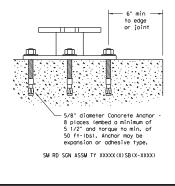
Foundation

- 1. Prepare 12-inch diameter by 42-inch deep hole. If solid rock is encountered, the depth of the
- foundation may be reduced such that it is embedded a minimum of 18 inches into the solid rock. To any other may per reacted such that it is sinceded a minimum or to include info the solid pock. 3. The Engineer may permit batches of concrete less than 2 cubic yards to be mixed with a portable, motor-driven concrete mixer. For small placements less than 0.5 cubic yards, hand mixing in a suitable container may be allowed by Engineer. Concrete shall be Class A.
- 3. Push the pipe end of the slip base stub into the center of the concrete. Rotate the stub back and forth while pushing it down into the concrete to assure good contact between the concrete and stub.
- Continue to work the stub into the concrete until it is between 2 to 4 inches above the ground. 4. Plumb the stub. Allow a minimum of 4 days to set, unless otherwise directed by the Engineer.
- 5. The triangular slipbase system is multidirectional and is designed to release when struck from any direction.

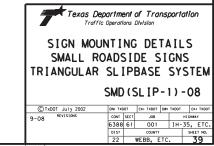
Support

- 1. Cut support so that the bottom of the sign will be 7 to 7.5 feet above the edge of the travelway (i.e., edge of the closest lane) when slip plate is below the edge of pavement or 7 to 7.5 feet above slip plate when the slip plate is above the edge of the travelway. The cut shall be plumb and straight.
- 2. Attach sign to support using connections shown. When multiple signs are installed on the same support, ensure the minimum clearance between each sign is maintained. See SMD(SLIP-2) fo clearances based on sign types.

CONCRETE ANCHOR



Concrete anchor consists of 5/8" digmeter stud bolt with UNC series bolt threads on the upper end. Heavy hex nut per ASTM A563, and hardened washer per ASTM F436. The stud bolt shall have a minimum yield and ultimate tensile strength of 50 and 75 KSI, respectively. Nuts, bolts and washers shall be galvanized per Item 445, "Galvanizing, " Adhesive type anchors shall have stud bolts installed with Type III epoxy per DMS-6100, "Epoxies and Adhesives." Adhesive anchors may be loaded after adequate epoxy cure time per the monufocturer's recommendations. Top of bolt shall extend at least flush with top of the nut when installed. The anchor, when installed in 4000 psi normal weight concrete with a 5 1/2" minimum embedment, shall have a minimum allowable tension and shear of 3900 and 3100 psi, respectively.

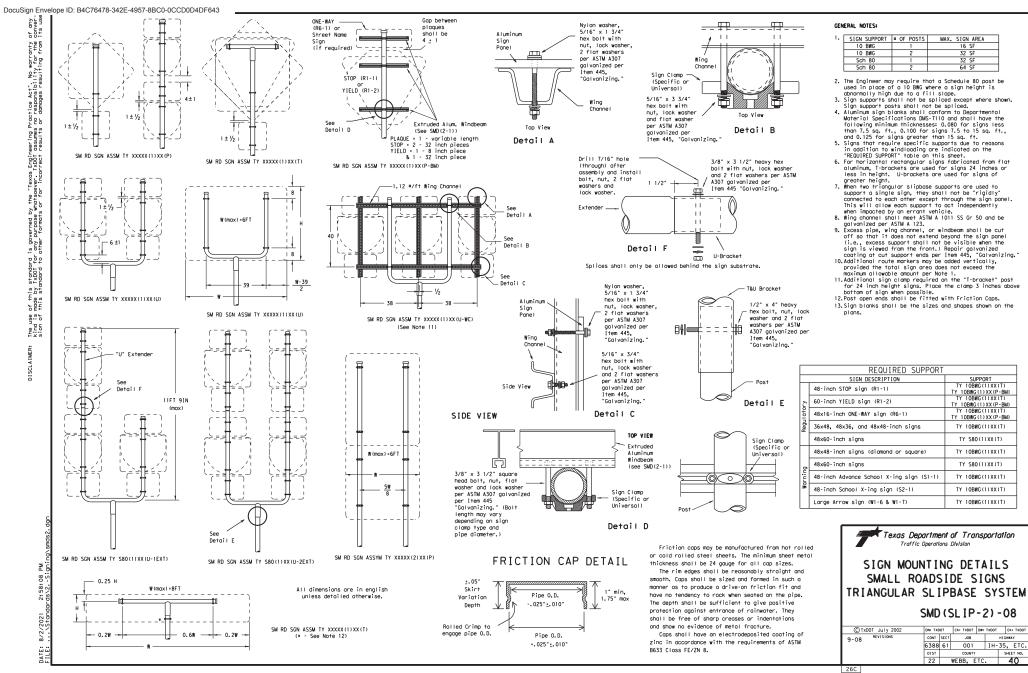


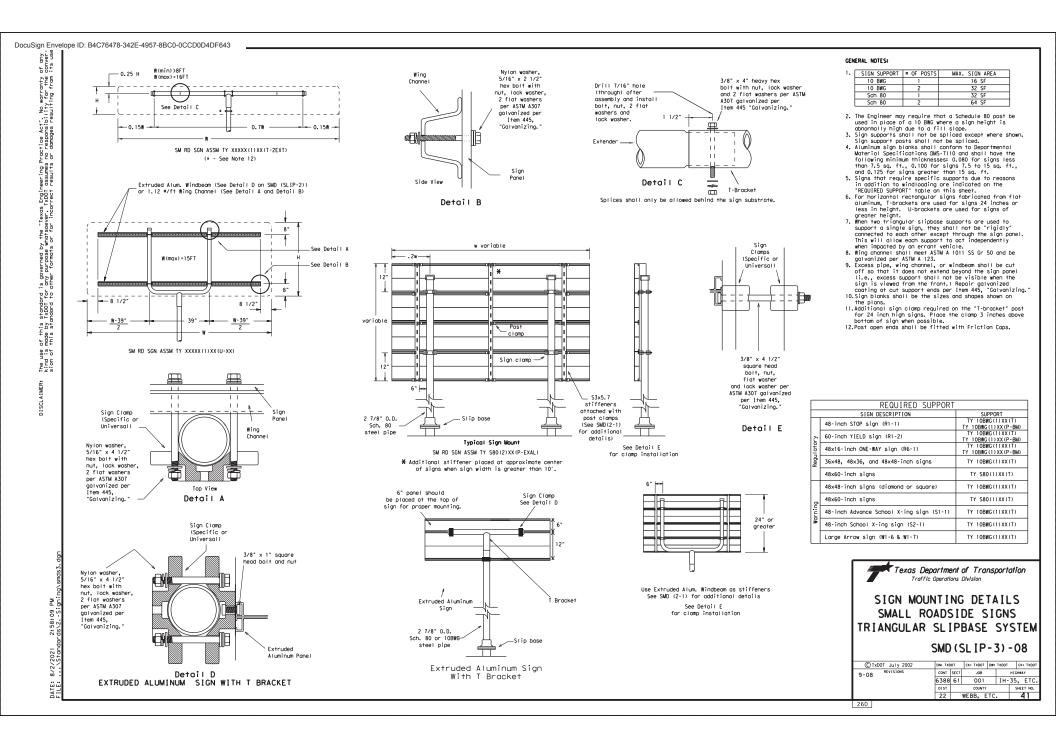
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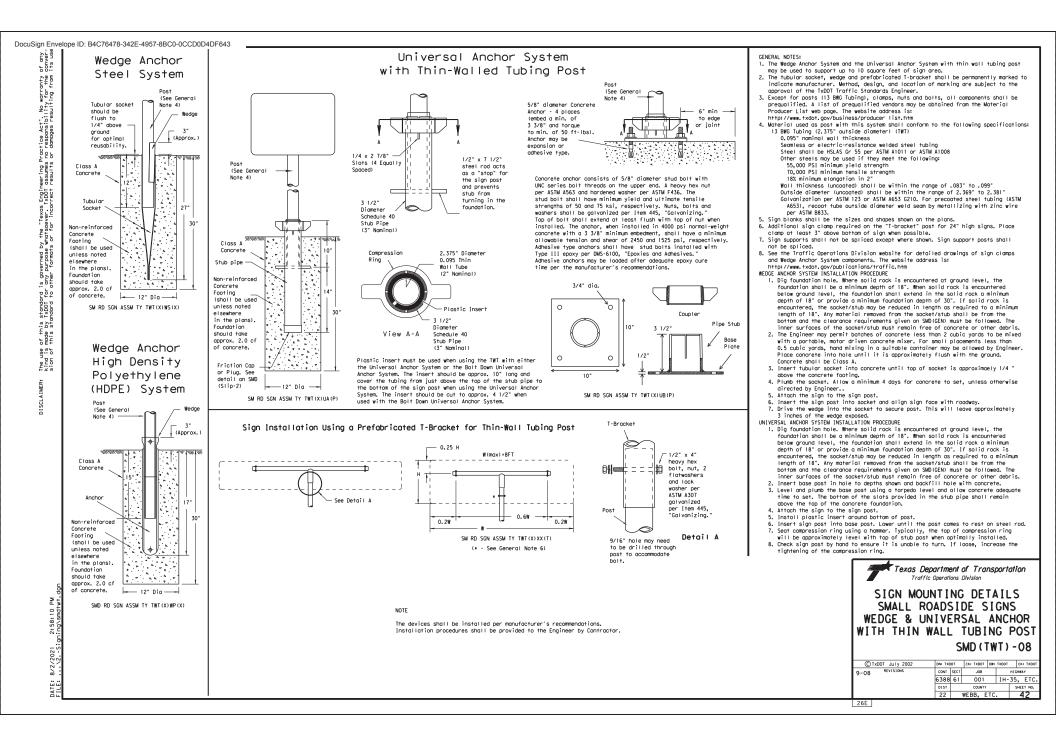
is governed by the "Texas Engineering Practice Act". No warro onty burbase worsoever. TXDOT assumes no responsibility for other formats or for incorrect results or damages resulting t of this standard i made by TxDOT for this standard to a The use kind is sion of DISCLAIMER:

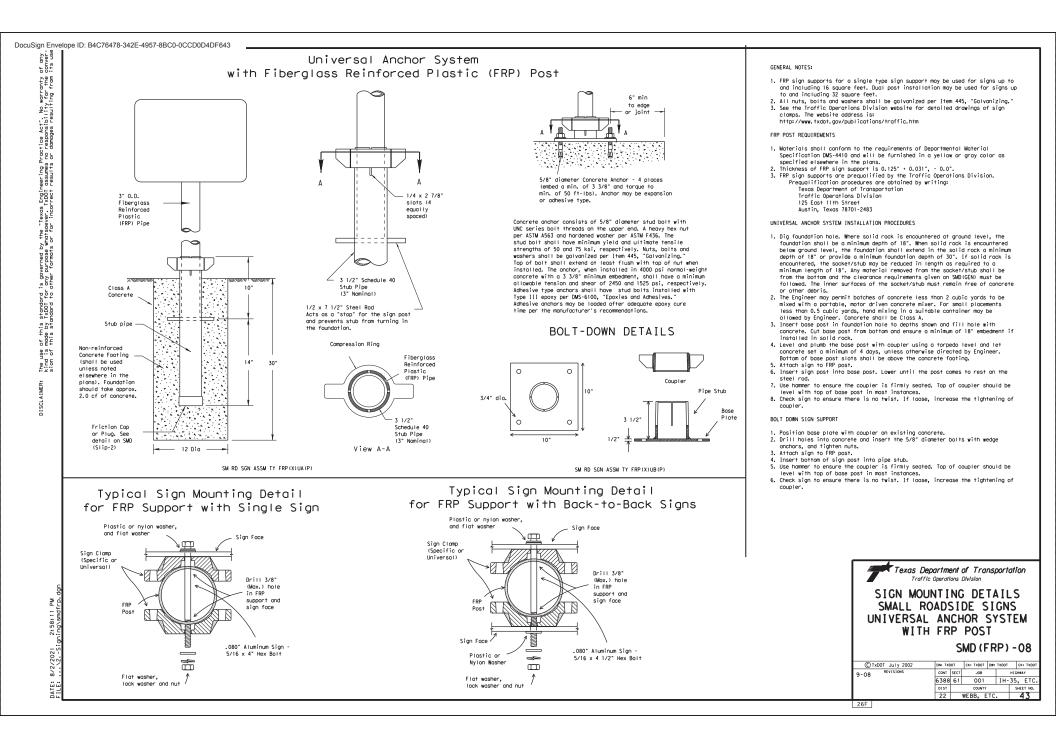
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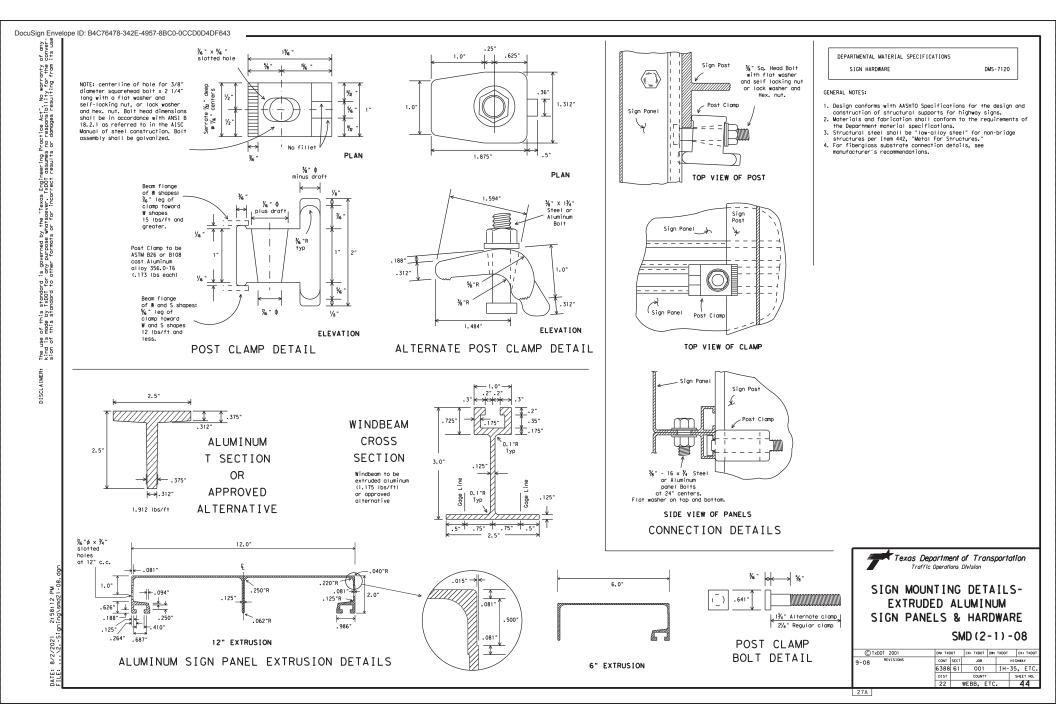
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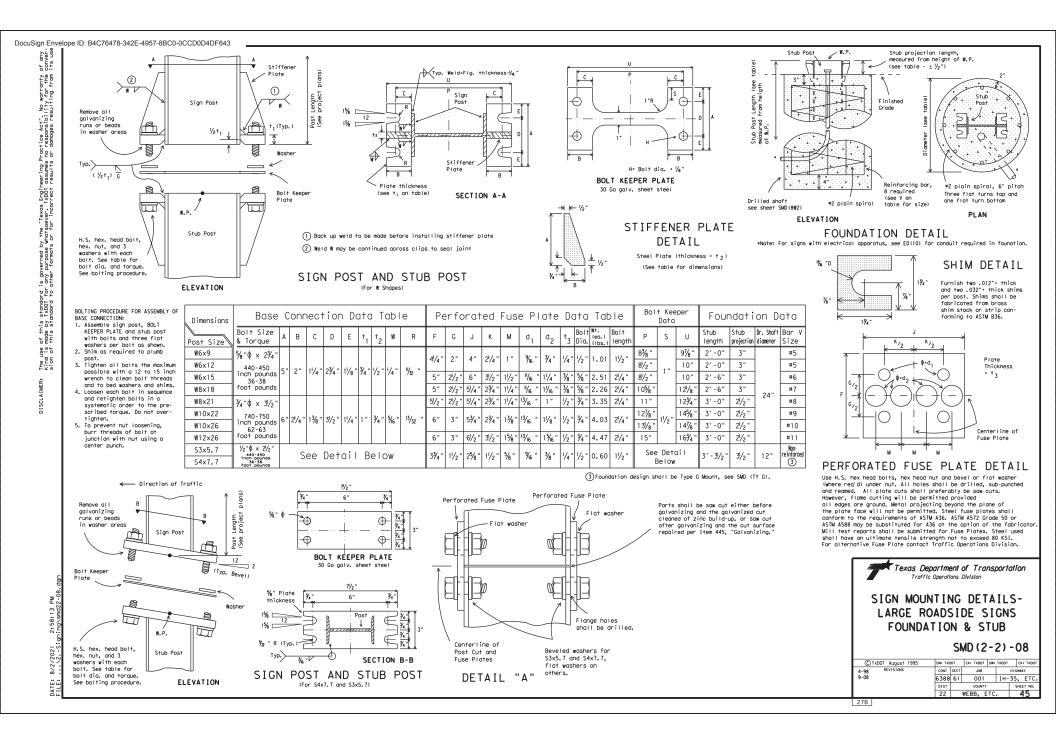


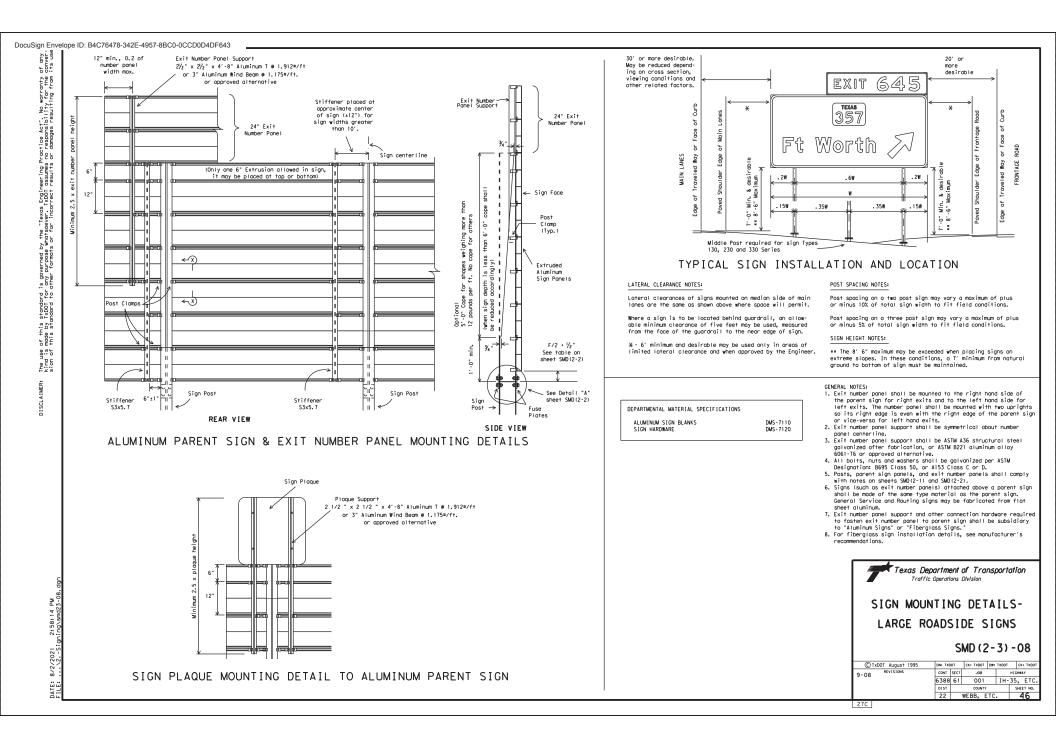


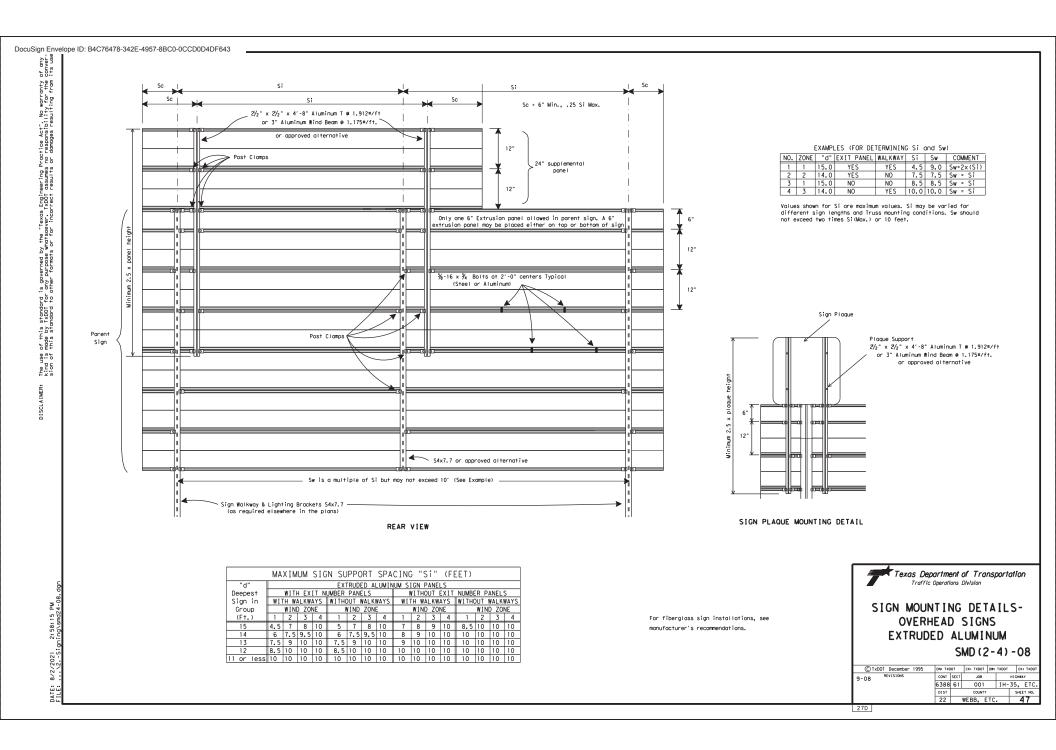


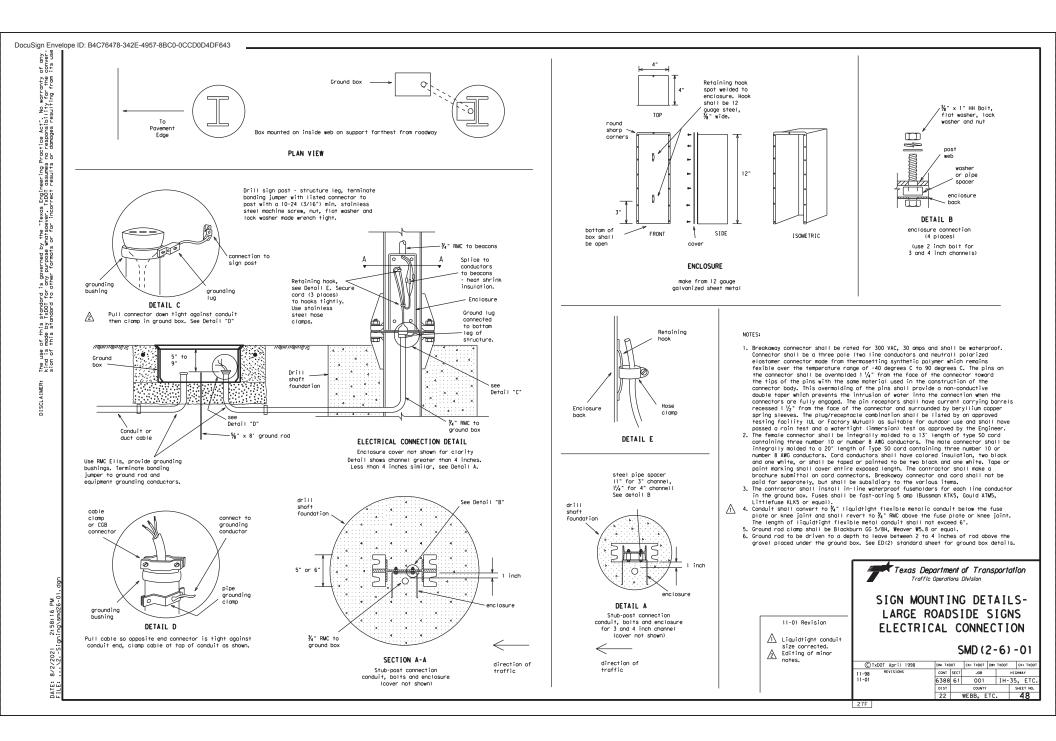


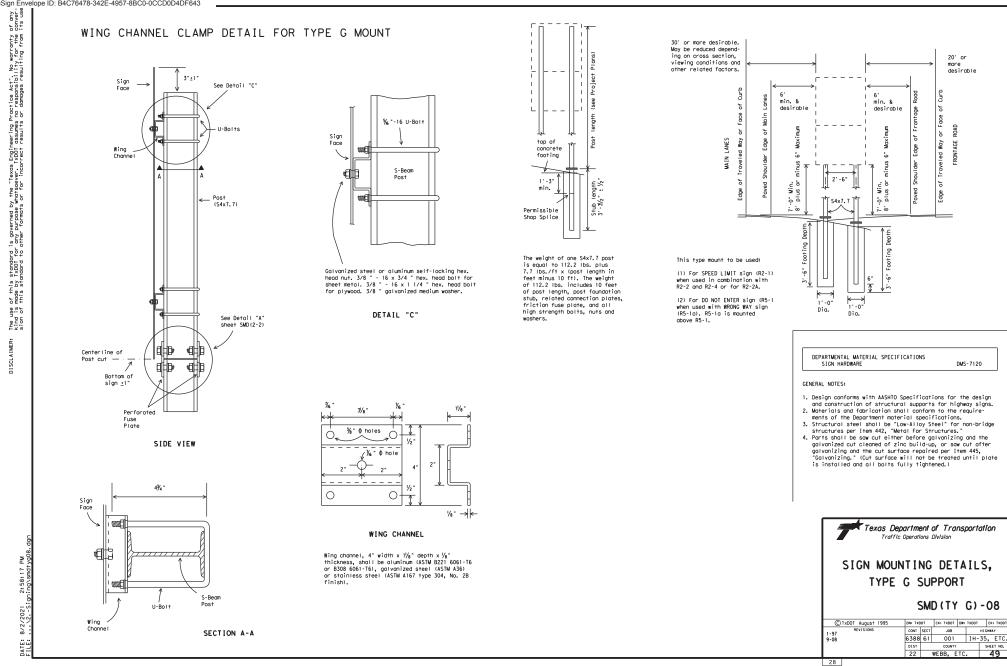




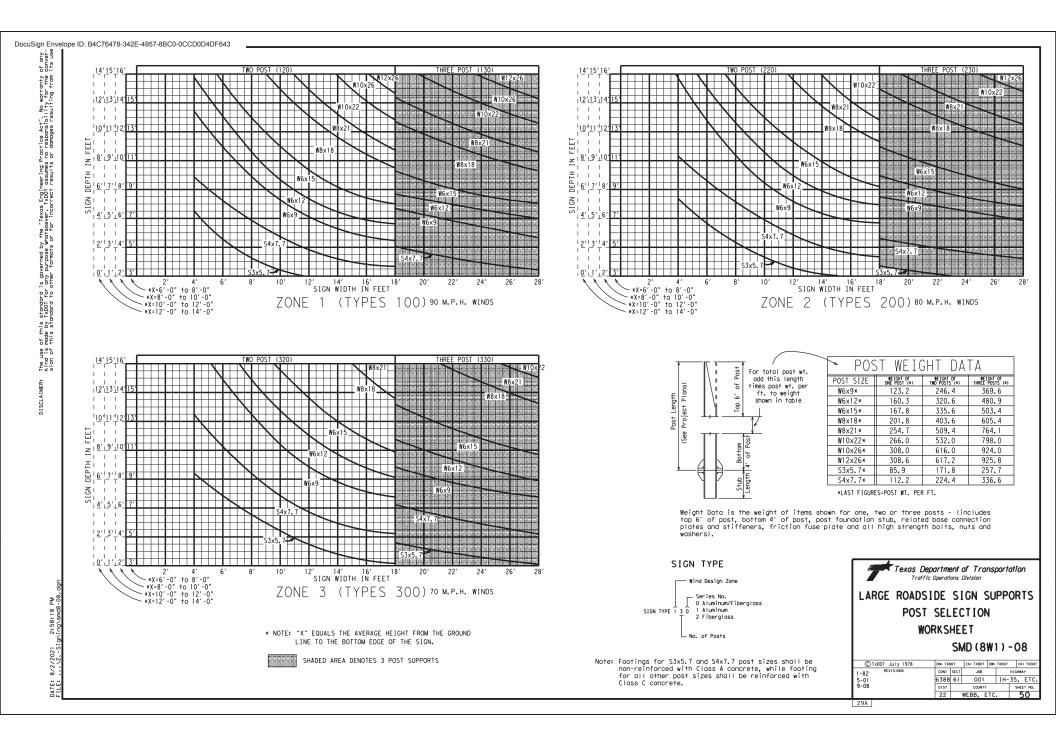


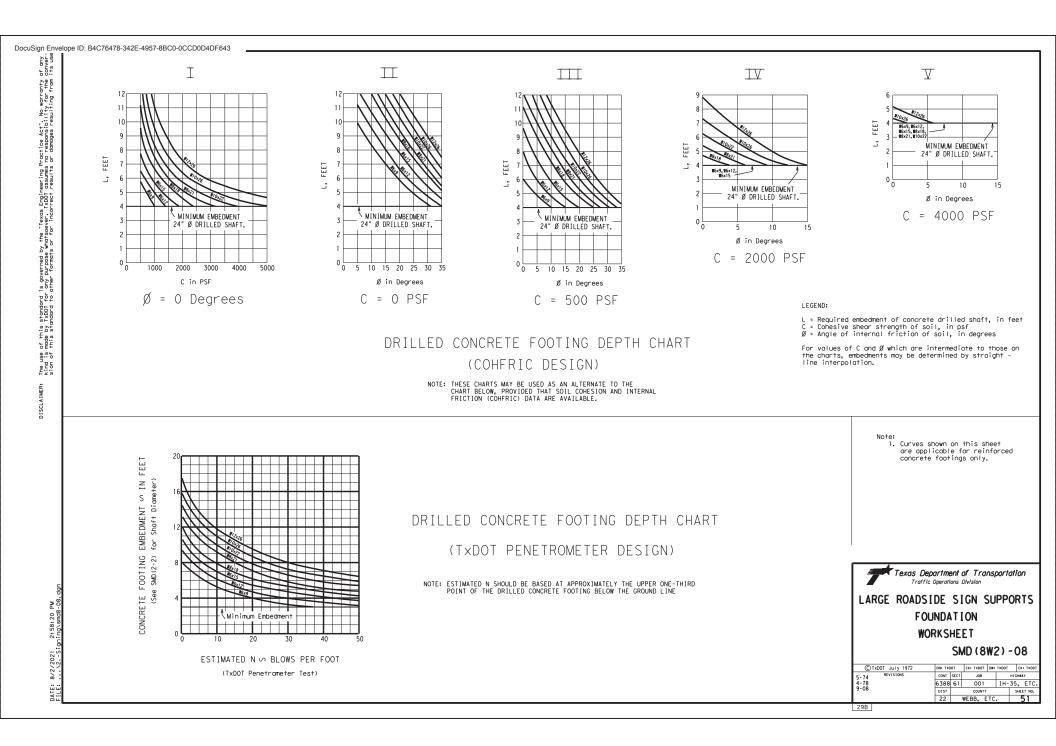


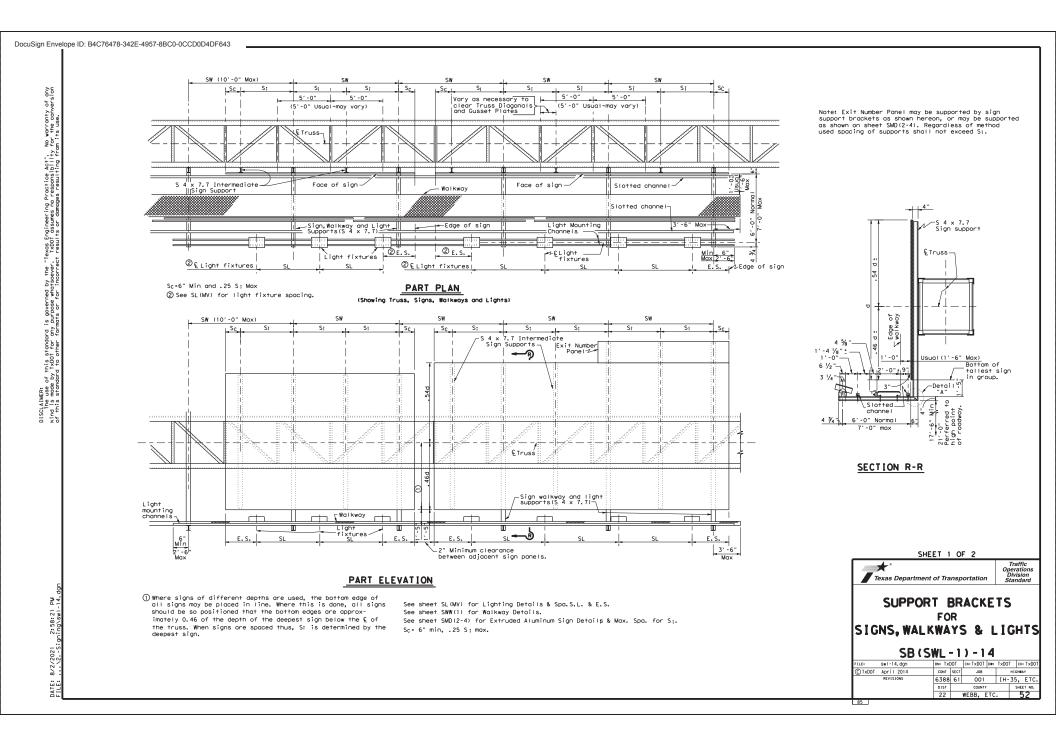


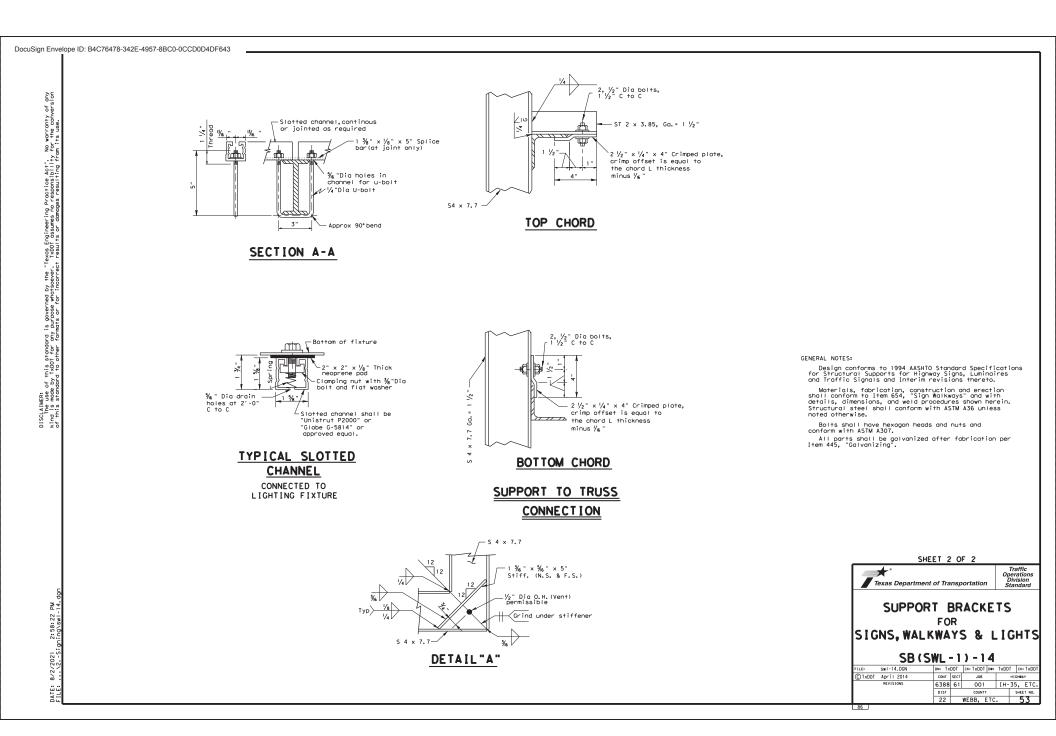


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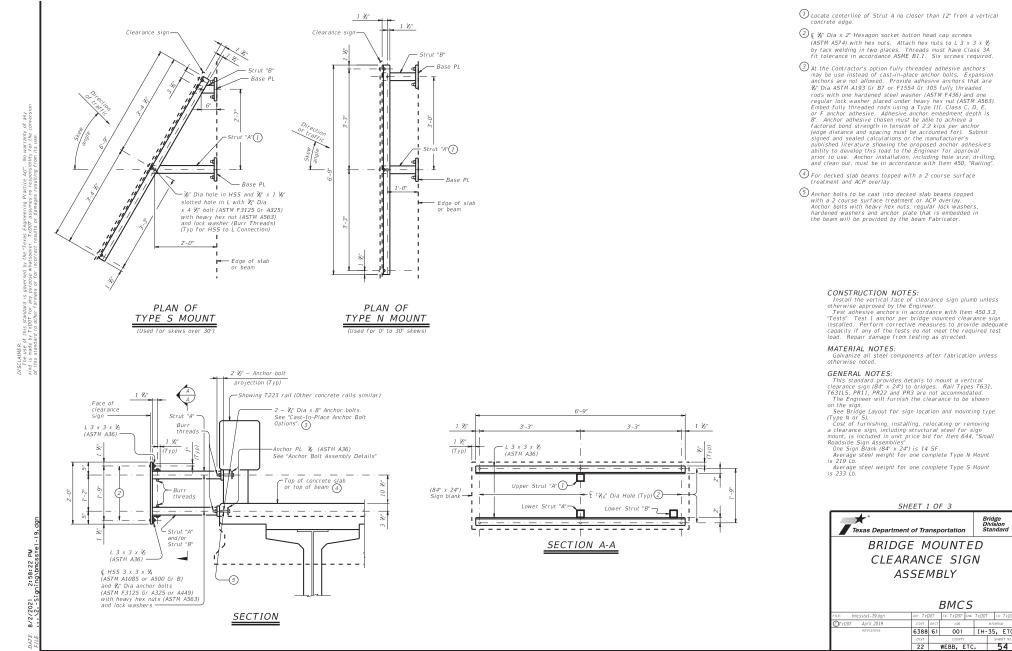




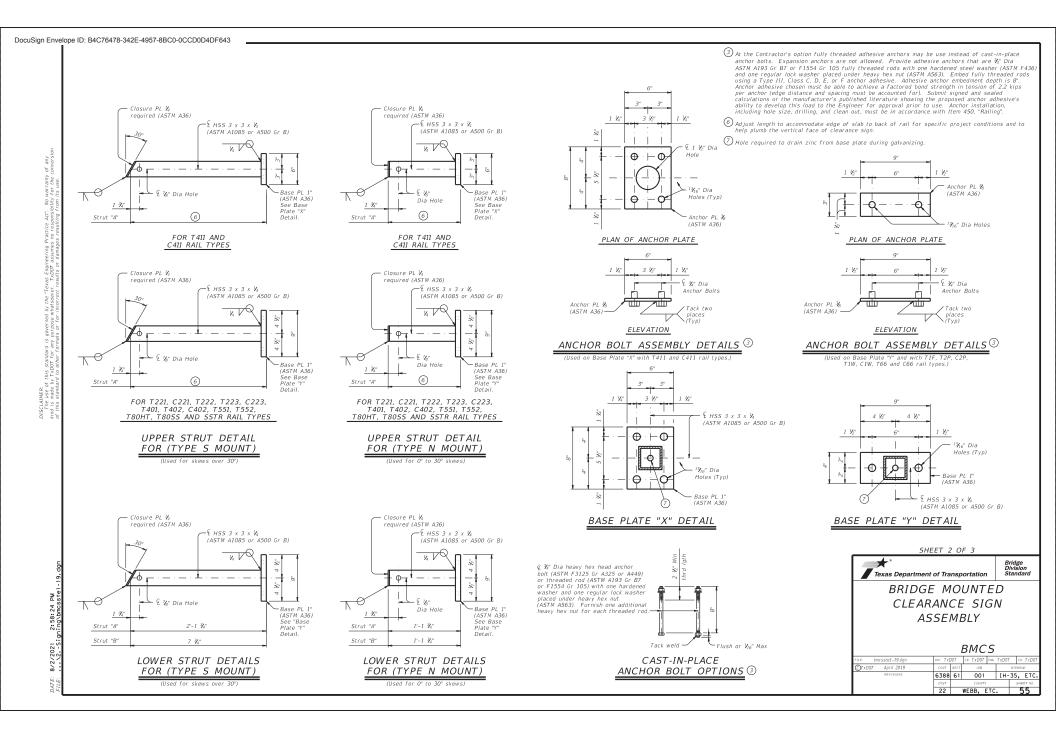


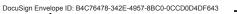


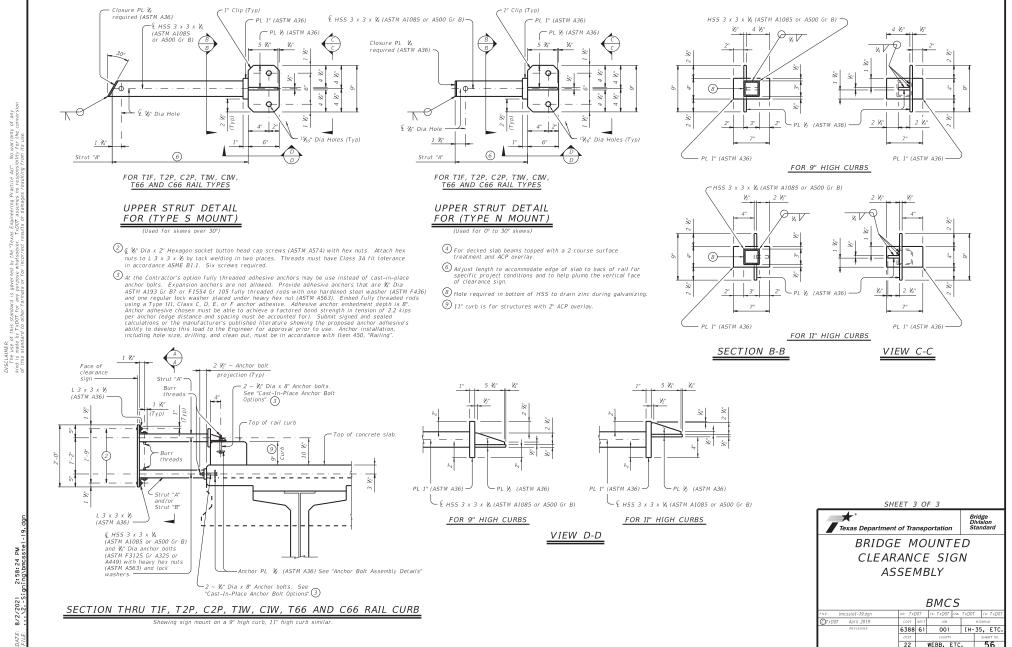
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Engineering Prostice Act No worronty of ony kind is mode by 12007 for ony purpose whotsoever of this standard to other formats or for incortect results or domoges resulting from 11s use.	<pre>velope ID: B4C76478-342E-4957-8BC0-0CCD0D4DF643 1. STORMWATER POLLUTION PREVENTION-CLEAN WATER ACT SECTION 402 TPDES TXR 150000: Stormwater Discharge Permit or Construction General Permit required for projects with 1 or more acres disturbed soil. Projects with any disturbed soil must protect for erosion and sedimentation in accordance with Item 506. 1. List MS4 Operator (s) that may receive discharges from this project. They may need to be notified prior to construction activities. 1. City of Laredo 2. 2. 3. No Action Required Required Action Action No. 3. 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 by the Engineer. 3. Post Construction Site Notice (CSN) with SW3P information on or near the site, accessible to the public and TCEQ, EPA or other inspectors. 4. When Contractor project specific locations (PSL's) increase disturbed soil area to 5 acres or more, submit NOI to TCEQ and the Engineer. 3. USACE Permit required for filling, dredging, excavating or other work in any water bacles, rivers, creeks, streams, wetlands or wet areas. 3. The Contractor must adhere to all of the terms and conditions associated with the following permit(s): 3. No Permit Required 3. No Pe</pre>	111. CULTURAL RESOURCES Refer to TXDOT Standard Specifications in the event historical issues or archeological artifacts (banes, burnt rack, flint, pottery, etc.) cease work in the immediate area and contact the Engineer immediately. Image: Construction of the immediate area and contact the Engineer immediately. Image: Construction of the extent practical issues or archeological artifacts (banes, burnt rack, flint, pottery, etc.) cease work in the immediate area and contact the Engineer immediately. Image: Construction of the extent practical issues of the extent practical. Contractor must adhere to construction Specification Requirements Specs 162, 164, 192, 193, 506, 730, 751, 752 in order to comply with requirements for invasive species, beneficial landscaping, and tree/brush removal commitments. Image: No Action Required Required Action Action No. 1. 2. 3.	VI. HAZARDOUS MATERIALS OR CONTAMINATION ISSUES General (applies to all projects): Comply with the Hazard Communication Act (the Act) for personnel who will be working with hazardous materials by conducting safety meetings prior to beginning construction and making workers oware of potential hazards in the workplace. Ensure that all workers are provided with personal protective equipment appropriate for any hazardous materials used. Obtain and keep an-site Material Safety Data Sheets (MSDS) for all hazardous products used on the project, which may include, but are not limited to the following categories: Paints, acids, solvents, aspholt products, chemical additives, fuels and concrete curing compounds or additives. Provide protected storage, off bare ground and covered, for products which may be hazardous. Maintain product labelling as reguired by the Act. Mointain an adequate supply of an-site spill response materials, as indicated in the MSDS. In the event of a spill, take actions to mitigate the spill as indicated in the MSDS. In accordance with safe work practices, and contact the District Spill Coordinator immediately. The Contractor shall be responsible for the proper containment and cleanup of all product spills. Contact the Engineer if any of the following are detected: bead or distressed vegetation (not identified as norma)) Trash piles, drums, consister, barrels, etc. Undesirable smells or odors Evidence of leaching or seepage of substances Des the project involve any bridge class structure rehabilitation or replacements (bridge class structures not including box culverts)? Mo If "No", then no further action is required. If "Yes", then TxDDT must retain a DSHS licensed asbestos consultant to assist with the notification, develop abatement/mitigation procedures, and perform management activities as necessary. The notification form to DSHS must be postmarked at least 15 working days prior to s
DISCLAINER: DISCLAINER: The use of this stondard is governed by the "Texos E TADI descues on o responsibility for the conversion o	No Permit Required No Permit Required Notionwide Permit 14 - PCN not Required (less than 1/10th acre waters or wetlands affected) Nationwide Permit 14 - PCN Required (l/10 to (1/2 acre, 1/3 in tidal waters) Individual 404 Permit Required Other Nationwide Permit Required: Number Number Number Number Required Actions: List waters of the US permit applies to, location in project and check Best Management Practices planned to control erosion, sedimentation and post-project TSS. 1. 2. 3. 4. The elevation of the ordinary high water marks of any areas requiring work to be performed in the waters of the US requiring the use of a nationwide permit can be found on the Bridge Layouts. Best Management Practices: Erosion Sedimentation Post-Construction TSS I Temporary Vegetation Silt Fence Blankets/kutting Rock Berm Mulch Triangular Filter Dike	 4. 5. FEDERAL LISTED, PROPOSED THREATENED, ENDANGERED SPECIES, CRITICAL HABITAT, STATE LISTED SPECIES, CANDIDATE SPECIES, AND MIGRATORY BIRDS. MICRATORY BIRDS. M Action Require	scheduled demolition. In either case, the Contractor is responsible for providing the date(s) for abatement activities and/or demolition with careful coordination between the Engineer and asbestos consultant in order to minimize construction delays and subsequent claims. Any other evidence indicating possible hazardous materials or contamination discovered on site. Hazardous Materials or Contamination Issues Specific to this Project: Image: No Action Required Required Action Action No. 1. 2. 3. VII. OTHER ENVIRONMENTAL ISSUES (includes regional issues such as Edwards Aquifer District, etc.) Image: No Action Required Required Action Action No. 1. 2. 3. VII. OTHER Environmentation issues such as Edwards Aquifer District, etc.) Mo Action Required Image: No Action Required Required Action Action No. 1. 2. 3.
DATE: 8/2/2021	Sodding Sand Bag Berm Constructed Wetlands Interceptor Swole Straw Bale Dike Wet Basin Diversion Dike Brush Berms Erosion Control Compost Erosian Control Compost Erosian Control Compost Mulch Filter Berm and Socks Mulch Filter Berm and Socks Compost Filter Berm and Socks Compost Filter Berm and Socks Compost Filter Berm and Socks Stong Autota Socks Vegetation Lined Ditches	LIST OF ABBREVIATIONS BMP: Best Management Practice SPCC: Spill Prevention Control and Countermeasure COP: Construction General Permit SWP: Stam Moter Pollution Prevention Plan DSHS Texas Department of State Health Services PON: Pre-Construction Notification PMM: Federal Highway durinistration PSI: Project Specific Location MOL: Memorandum of Agreement TCEC: Texas Commission on Environmental Quality MOL: Memorandum of Understanding TPIDE: Texas Porks and Wildlife Department MS4: Municipal Separate Stomwater Sewer System TPMD: Texas Parks and Wildlife Department Texas Parks and Wildlife Department ND1: Notice of Termination TBE: Threatened and Indaragered Species ND2: Notice of Intent USFWS: U.S. Fish and Wildlife Service	ENVIRONMENTAL PERMITS, ISSUES AND COMMITMENTS EPIC FILE: epic.dgn ON 1500T CALRG ON VP CALAR (D)TADDT February 2015 CONF JACK J AND 1 H-35, ETC. 00-27-201 UD 1 KT CONF JACK J AND AND 1 H-35, ETC. 00-27-28-205 SECTION 1 (DANGED ITH) 222 WEBB, ETC. 57

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(None) Security Level: Email, Account Authentication Texas Department of Transportation Traffic Engineer Rafael.Guzman@txdot.gov Rafael Guzman

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CynthiaMpaldana

	isclosure	Electronic Record and Signature Disclosure
Timestamps	Status	Payment Events
8/2/2021 5:19:57 PM 8/2/2021 5:19:57 PM	Security Checked Security Checked	Signing Complete Completed
8/2/2021 3:27:27 PM 8/2/2021 5:19:45 PM	Hashed/Encrypted Security Checked	Envelope Sent Certified Delivered
Timestamps	Status	Envelope Summary Events
Timestamp	Signature	Notary Events
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Operating Systems:	Windows2000? or WindowsXP?
Browsers (for SENDERS):	Internet Explorer 6.0? or above
Browsers (for SIGNERS):	Internet Explorer 6.0?, Mozilla FireFox 1.0,
	NetScape 7.2 (or above)
Email:	Access to a valid email account
Screen Resolution:	800 x 600 minimum
Enabled Security Settings:	
	•Allow per session cookies
	•Users accessing the internet behind a Proxy
	Server must enable HTTP 1.1 settings via
	proxy connection
** These minimum requirements are subject	** These minimum requirements are subject to change. If these requirements change, we will
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