

FED. RD. DIV. NO.	PROJECT NO.		SHEET NO.
6	RMC: 6353-00-001		1
STATE	STATE DIST. NO.	COUNTY	
TEXAS	PHR	HIDALGO, ETC.	
CONT.	SECT.	JOB	HIGHWAY NO.
6353	00	001	IH 2, ETC.

STATE OF TEXAS DEPARTMENT OF TRANSPORTATION

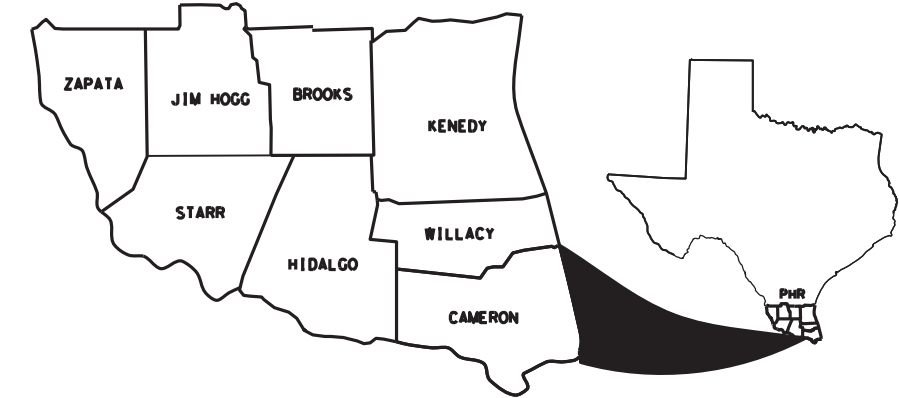
PLANS OF PROPOSED HIGHWAY ROUTINE MAINTENANCE CONTRACT

INDEX OF SHEETS
SEE SHEET NO. 2

TYPE OF WORK:

INSTALLATION, REMOVAL AND RELOCATION OF LARGE & SMALL GUIDE SIGNS
IN CAMERON, HIDALGO, STARR AND WILLACY COUNTIES

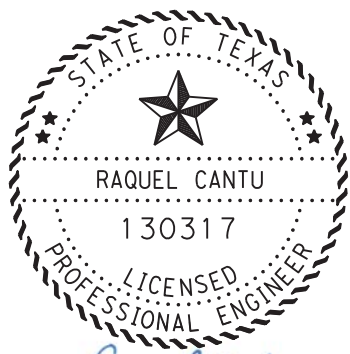
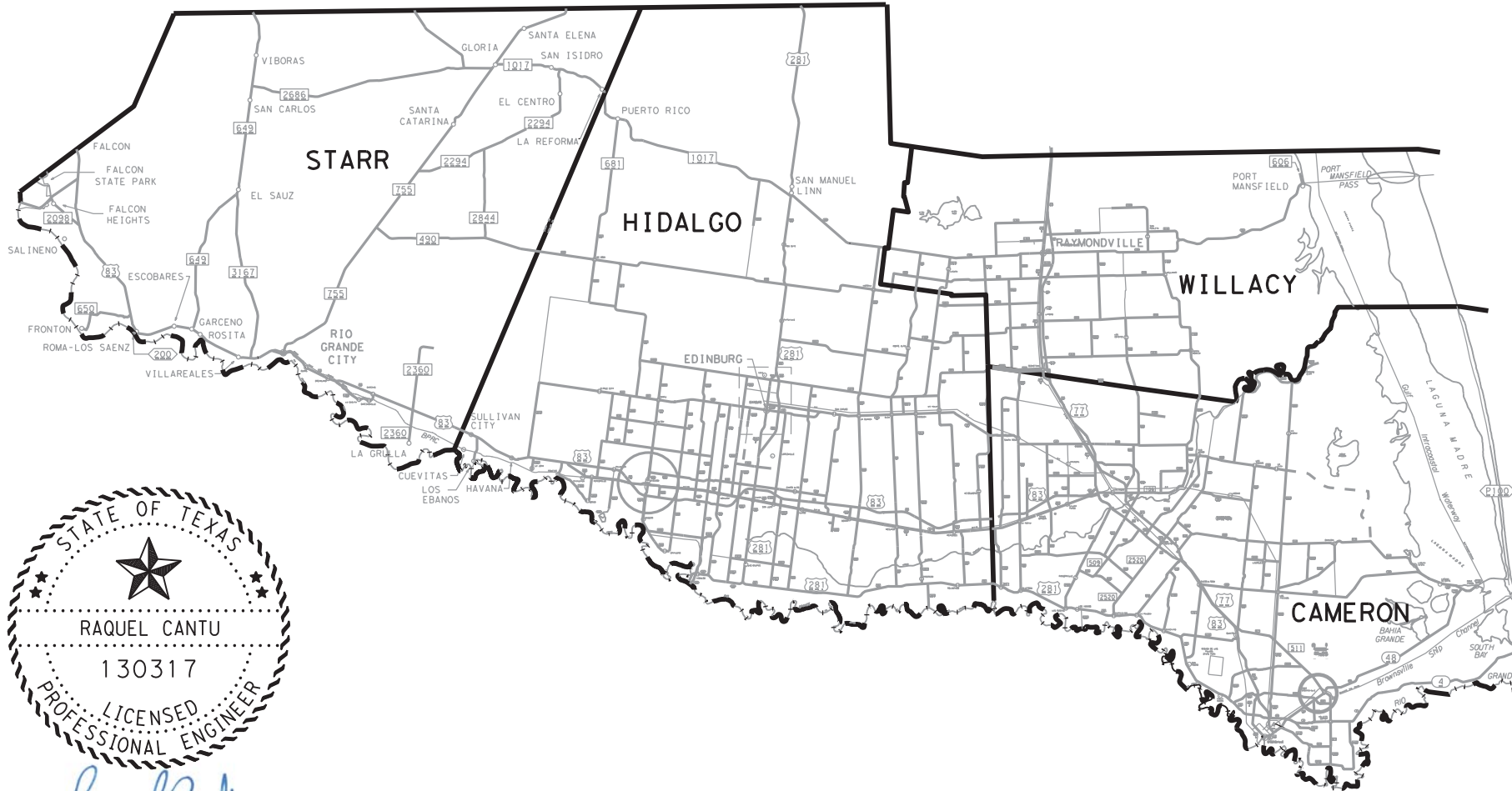
PROJECT: 6353-00-001
COUNTY: HIDALGO, ETC
HIGHWAY: IH 2, ETC.
LIMITS: VARIOUS LOCATIONS WITHIN PHARR DISTRICT



FINAL PLAN DATA

FINAL CONTRACT PRICE: _____
CONTRACTORS NAME: _____
CONTRACTORS ADDRESS: _____
LETTING DATE: _____
DATE WORK BEGAN: _____
DATE WORK COMPLETED: _____
DATE OF ACCEPTANCE: _____

CHANGE ORDERS & SUPP. AGREEMENTS



Raquel Cantu
RAQUEL CANTU, P.E.
12/07/2020
DATE

SPECIFICATIONS ADOPTED BY THE TEXAS DEPARTMENT OF TRANSPORTATION ON NOVEMBER 1, 2014 AND SPECIFICATION ITEMS LISTED AND DATED AS FOLLOWS SHALL GOVERN ON THIS PROJECT:

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Texas Department of Transportation

TEXAS DEPARTMENT OF TRANSPORTATION	
DocuSigned by: <i>Rea Costley</i> 1/27/2021	DocuSigned by: <i>Pedro R. Alvarez</i> 1/28/2021
D79192231B6C45A... TRANSPORTATION OPERATIONS	
DocuSigned by: <i>Juan A. Sustaita Jr</i> 1/28/2021	EABA335C2DAA48C... DISTRICT ENGINEER
E353D62C01B2433... DIRECTOR OF MAINTENANCE	

RMC: 6353-00-001 LARGE SIGNS

COUNTY: HIDALGO, ETC.
Hwy. NO. IH 2, ETC.
DATE ACCEPTED _____
PROJ. NO. _____
LETTING DATE _____

DETAILED INDEX OF SHEETS


SHEET NO.	DESCRIPTION
GENERAL	
1	- TITLE SHEET
2	- INDEX OF SHEETS
3	- LOCATION MAPS
4-8	- GENERAL NOTES AND SPECIFICATIONS
9-10	- ESTIMATE & QUANTITY SHEET
11	- OMIT
12-22	- IH 69C LARGE SIGN LAYOUTS
23-27	- IH 69C LARGE SIGN DETAILS
28	- IH 69C SUMMARY OF LARGE SIGNS (REMOVALS)
29-30	- IH 69C SUMMARY OF LARGE SIGNS (INSTALLATIONS)
31-34	- IH 2 LARGE SIGN LAYOUTS
35	- OMIT
36-86	- IH 2 LARGE SIGN LAYOUTS
87-98	- IH 2 LARGE SIGN DETAILS
99-102	- IH 2 SUMMARY OF LARGE SIGNS (REMOVALS)
103-111	- IH 2 SUMMARY OF LARGE SIGNS (INSTALLATIONS)
112-164	- IH 69E LARGE SIGN LAYOUTS
165-187	- IH 69E LARGE SIGN DETAILS
188-191	- IH 69E SUMMARY OF LARGE SIGNS (REMOVALS)
192-201	- IH 69E SUMMARY OF LARGE SIGNS (INSTALLATIONS)

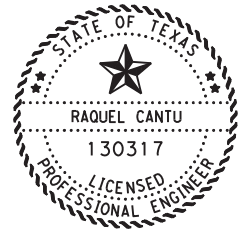
SHEET NO.	DESCRIPTION
STANDARDS	
202-213	- BC(1)-14 THRU BC(12)-14 [S]
214-219	- TCP(1-1)-12 THRU TCP(1-6)-12 [S]
220-227	- TCP(2-1)-12 THRU TCP(2-8)-12 [S]
228	- TCP(5-1)-12 [S]
229-235	- TCP(6-1)-12 THRU TCP(6-7)-12 [S]
236-237	- TCP(6-8) & TCP(6-9)-14 [S]
238-239	- WZ(BTS-1)-13 & WZ(BTS-2)-13 [S]
240-244	- TSR(1)-13 THRU TSR(5)-13 [S]
245	- SMD(GEN)-08 [S]
246-248	- SMD(SLIP-1)-08 THRU SMD(SLIP-3)-08 [S]
249-252	- SMD(2-1)-08 THRU SMD(2-4)-08 [S]
253	- SMD(TY G)-08 [S]
254-255	- SMD(8W-1)08 & SMD(8W-2)-08 [S]
256-257	- SB(SWL-1)-14 [S]
258	- TYPICAL SIGN RIPRAP DETAIL [D]
259-261	- SMD(BR-1)-14 THRU SMD(BR-3)-14 [S]
262	- SMD(RM)-98 [D]
263-264	- SPECIAL SIGN MOUNT DETAILS [D]
265	- OMIT
266	- WV & IZ-14 [S]
267	- WV & IZ(LTS2013)-14 [S]

ENVIRONMENTAL	
268	- TECL-17 (PHR)[D]
269-270	- EPIC
271	- STORM WATER POLLUTION PREVENTION PLAN (SW3P)
272-274	- EROSION CONTROL LOG EC(9)-16

LEGEND:
 [D]... DENOTES DISTRICT STANDARDS
 [S]... DENOTES STATE STANDARDS

THE STANDARD SHEETS 202 TO 274 HAVE BEEN SELECTED BY ME OR UNDER MY RESPONSIBLE SUPERVISION AS BEING APPLICABLE TO THIS PROJECT.


 RAQUEL CANTU, P.E.



09/08/2020
DATE

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Texas Department of Transportation

DETAILED INDEX OF SHEETS

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							2
FED. RD. DIST. NO.	STATE	DIST.	COUNTY	CONT.	SECT.	JOB	HIGHWAY NO.
6	TEXAS	21	HIDALGO,	6353	00	001	IH 2, ETC

ETC.

BEGIN PROJECT IH-2
SHOWERS RD.
M.M. = 130

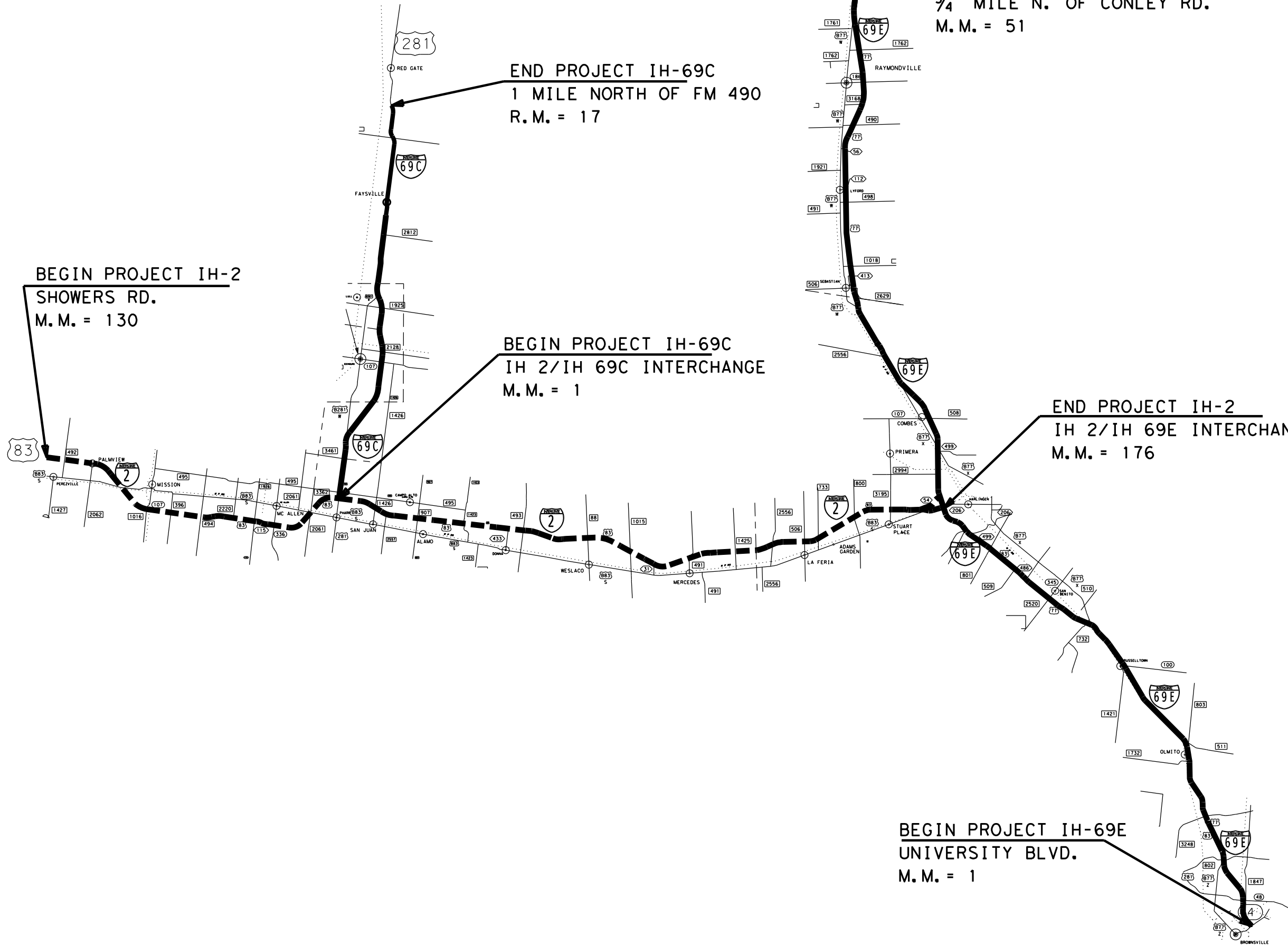
END PROJECT IH-69C
1 MILE NORTH OF FM 490
R.M. = 17

BEGIN PROJECT IH-69C
IH 2/IH 69C INTERCHANGE
M.M. = 1

END PROJECT IH-69E
3/4 MILE N. OF CONLEY RD.
M.M. = 51

END PROJECT IH-2
IH 2/IH 69E INTERCHANGE
M.M. = 176

BEGIN PROJECT IH-69E
UNIVERSITY BLVD.
M.M. = 1



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Texas Department of Transportation

**IH-2, IH-69C & IH-69E
REMOVAL AND INSTALLATION
OF LARGE & SMALL
GUIDE SIGNS**

LOCATION MAP

FILE:	DH: GV	CK: GV	DW:	CK: GG
© TxDOT	DIST	FED REG	PROJECT NO.	SHEET
REVISONS	21	6		3
	COUNTY	CONTROL	SECT	JOB
	HIDALGO, ETC.	6353	00	001

ETC.

Project Number:

Sheet A

County: Hidalgo, Etc.

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2014 SPECS GENERAL NOTES:

**

General Requirements and Covenants to ITEMS 1 thru 9

For all pits or quarries, comply with the “Texas Aggregate Quarry and Pit Safety Act.”

Provide on a weekly basis a list of equipment, including idle equipment, utilized on the project that week.

The 1-800 call services for utility locations do not include TxDOT facilities. Contact the Pharr District Signal Section (956-702-6225) for coordination regarding TxDOT underground lines.

ITEM 2: Instructions to Bidders

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

Eugene Palacios, P.E., District Maintenance; Eugene.Palacios@txdot.gov

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

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

<https://ftp.dot.state.tx.us/pub/txdot-info/Pre-Letting Responses/>

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

ITEM 4: Scope of Work

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.

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Sheet B

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The work is divided across three interstate segments as shown in the plans. Complete 75% of work within one segment before beginning work in the next segment, unless otherwise approved by the Engineer.

This project consists of installing new signs and removing, replacing or relocating existing signs including mounting hardware on various highways in the Pharr District.

The Contractor shall examine the specified work locations with the Engineer to view the nature of the work prior to beginning the sign installations.

Notify the engineer’s representative by telephone each morning by 8:15 a.m. that work is scheduled, with work location and time of arrival or reason for not working that day.

Any sign panels that are adjusted or removed or replaced shall be done the same workday unless otherwise approved.

Sign types conform to the Texas Manual on Uniform Traffic Control Devices and Standard Highway Sign Designs for Texas.

A new large sign with its exit number panel and any panels attached below the parent sign shall be considered as one unit.

It is the contractor’s responsibility to set stakes and verify all dimensions and elevations in the field prior to ordering signs and supports.

New signs placed on existing bridges shall maintain a minimum of 17’-6” from the high point of the pavement.

Placement of an existing Type “O” or Type “G” sign onto a new mount is to be considered subsidiary to the new mount.

All ground mount signs shall maintain a 7’-0” minimum height in accordance with TxDOT standards.

The contractor shall take before and after pictures of every sign modified, removed, installed or replaced with a camera that is equipped to record the GPS location of the picture. Supply the information to the Department in an excel table format with hyperlinked latitude and longitude.

An example is:

Sign Location Coordinates	Roadway	Mile Marker Or Reference Marker	Cross St
26.217299, -98.180523	IH-69C/US281	between MM 780 and MM 782	Sioux Rd.

Upon completion of installation of a Type "G" signs the contractor shall field very all X dimensions and supply the information in tabular format to the Department.

Stock pile all removed sign panels and sign components that will be reused or that become property of the Department at approved locations.

Accept ownership of unsalvageable materials, and dispose of them in accordance with federal, state and local regulations.

Wash signs with biodegradable cleaning solution acceptable to the sheeting and screen ink manufacturers to remove dirt, grease, oil smears, streaks, finger marks, and other foreign material.

ITEM 5: Control of the Work

The contractor shall coordinate with the utility companies to verify the location of the existing underground utilities prior to construction to avoid conflict or damage to these utilities.

The 1-800 call services for utility locations do not include TxDOT facilities. Contact the Pharr District Signal Section (956-702-6225) for coordination regarding TxDOT underground lines. Contact TxDOT when construction operations are within 400 feet of a signalized intersection or in the vicinity of highway lighting or ITS systems. Traffic systems equipment damaged by the contractor will be repaired or replaced by the contractor at his expense by a pre-approved method.

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

Contractor shall field verify the existing grade and calculate the length of each post including the "X" dimension prior to fabrication to meet field conditions and sign-mounting heights.

The prosecution of the work will be conducted in such a manner as to impose minimum interference to traffic.

The Contractor shall review the monthly statement of time charges and will be allowed up to the end to the next estimate period to protest the correctness. This protest shall be in writing and shall show cause. Not filing protest by the end of the next estimate period for any statement will indicate the Contractor's approval of the time charges as shown on that time statement and future consideration of that statement will not be permitted. If the satisfactory completion of the contract requires unforeseen work, then additional working days or suspension of time charge will be allowed the Contractor equal to the time, which, in the opinion of the Engineer, the work as a whole is delayed.

ITEM 6: Control Of Materials

Remove materials or debris within the construction limits not incorporated in the finished roadway section or right of way and dispose in a manner acceptable to the engineer at the expense of the contractor.

If wasted areas or material source areas result from this project, the contractor is reminded to follow the requirements of the Texas Aggregate Quarry and Pit Safety Act. In addition, it is requested that these areas not be visible from any highway on the state system.

ITEM 8: Prosecution And Progress

Working days will be computed and charged in accordance with Article 8.3.1.4. Standard Workweek.

A total of 360 working days will be allowed for this project. Work (Time Charges) shall begin no later than May 1, 2021

Prepare progress schedules as a Bar Chart.

No lane or ramp closures will be permitted during the peak hours of 6:00 a.m. and 9:00 a.m. and 4:00 p.m. to 7:00 p.m., on Mondays through Fridays.

Replacement of overhead signs will require lane closures. Some work on overhead signs must be done at night at the discretion of the Engineer. Allowable work times will be between 9:00 p.m. Sunday and 6:00 a.m. Friday morning. The contractor may begin lane closures by 8:00 p.m. and open traffic by 6:00 a.m. At least one week's notice is required for scheduling any night time work and 24 hours notification for cancelling night time work. Work will not be permitted on holidays or weekends and during other major events that TxDOT determines will cause significant traffic congestion, unless otherwise approved.

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ITEM 9: Measurement And Payment (Police Officers-Force Account)

As directed or approved, provide uniformed, off duty law enforcement officers with marked vehicles during work that requires a lane closure. The use and number of police officers with marked vehicles shall be approved by TxDOT at least 48 hours prior to any work day that the use

of police officers is proposed for traffic control. No payment shall be made for any unauthorized police officers utilized that do not have prior TxDOT approval. The officer(s) in marked vehicle(s) shall be located as approved to monitor or direct traffic during the closure. The method used to direct traffic at signalized intersections shall be approved.

Complete the weekly tracking form 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.

For reimbursement, the invoice must show the officer's name and badge number, or other form of identification acceptable to the Engineer, and the date the police officer was utilized. The department will pay police officers only for the actual hours worked. Cancellation fees, minimums, scheduling fees, etc. will not be paid.

ITEM 416: Drilled Shaft Foundations

The Contractor shall coordinate with the utility companies to verify utility locations before drilling foundations.

Drill any necessary holes through existing riprap for sign foundations with a core barrel or other similar means as approved by the engineer to provide neat circular holes.

All drilled shaft foundations will be based on the lengths shown on the plans or those established in writing. Adequate calculations for measurements of foundations have been made in accordance with Article 9.1 of the Standard Specifications. Increases or decreases in the quantities required by change in design will be measured as specified and the revised quantities will be the basis for payment.

All drilled shaft foundations will be based on the lengths shown on the plans or those established in writing. Adequate calculations for measurements of foundations have been made in accordance with Article 9.1 of the Standard Specifications. Increases or decreases in the quantities required by change in design will be measured as specified and the revised quantities will be the basis for payment.

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In the presence of excess ground water and/or unstable conditions in sub-grade soils prevents excavation to the line and depths indicated on the plans for "Drilled Shaft Foundation", other proposed methods of foundation installation such as casing, etc. shall be submitted for review and approved by the Engineer.

ITEM 432: Riprap

Provide Class "A" concrete for riprap placed on multiple post ground mounts signs requiring Class "A" concrete for sign post foundations, for steel reinforcement use #6-6"x6" reinforced wire mesh.

Provide Class "C" concrete for riprap placed on multiple post ground mounts signs requiring Class "C" concrete for sign post foundations, for steel reinforcement use #6-6"x6" reinforced wire mesh.

ITEM 502: Barricades, Signs, And Traffic Handling

Furnish and install all signs, barricades and other incidentals necessary for proper traffic control, in accordance with part VI of the "Texas Manual on Uniform Traffic Control Devices for Streets and Highways" and in accordance with the standards plan sheets. Additional devices may be needed to supplement these requirements. All warning signs shall be factory made and in satisfactory condition.

In addition to providing a Contractor's Responsible Person (CRP) and a phone number for emergency contact, have an employee(s) available to respond on the project for emergencies and for taking corrective measures within 30 minutes.

When a Traffic Control Plan (TCP) standard requires the use of one of the following devices, Type 3 barricades, channelizing devices or shadow vehicle with orange flags or warning lights, use a shadow vehicles equipped with a Truck Mounted Attenuator (TMA).

ANY MAINLANE CLOSURES INCLUDING SHOULDER WORK WILL REQUIRE A MINIMUM TWO TRUCKS WITH MOUNTED ATTENUATORS.

Any lane closures will require prior approval. At least 3 working days prior to the work, submit for approval a work plan including proposed traffic control, schedule of work and other details. If a lane closure has to be cancelled due to weather or other unforeseen circumstances, immediately notify the inspector and reschedule the lane closure as necessary.

Closures of freeway ramps and direct connectors shall be approved by the Engineer. For complete closure of an exit ramp or direct connector, detour signing must be provided.

Arrow boards are required. Provide a standby unit in good working condition at the jobsite for immediate use.

From the beginning to the end of the project, all traffic control devices need to be in acceptable condition as per the Texas Quality Guidelines for Work Zone Traffic Control Devices.

No two consecutive ramps will be closed concurrently. The Contractor shall submit notifications that contain the following specific information: date of closure, roadway and direction of closed lane, the operations of work within the closure, and the names of cross-streets between which the closure will take place. Temporary lane closures not appearing on the list will not be permitted.

Repetitive submission of temporary lane closure notifications which are not implemented in, or are ineffective utilization of implemented lane closure will be subject to liquidated damages, as determined, in accordance with the Item, "Prosecution and Progress."

Police assistance will be required when closing more than one lane of traffic on the freeway main-lanes or ramps. Scheduling and arrangements for police assistance will be the Contractor's responsibility.

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 "Safety Contingency" is not intended to be used in lieu of bid items established by the contract.

ITEM 504: Field Office and Laboratory

For this project a field office will not be required at the project site.

ITEM 506: Temporary Erosion, Sedimentation, And Environmental Controls

Due to the nature of this project, it is unlikely a significant amount of soil will be disturbed. However, if erosion control logs are needed; it shall be placed as directed by the Engineer.

ITEM 531: Sidewalks

Construct ¼-inch thick score joints at a maximum 6-foot spacing and expansion joints at a maximum 18-foot spacing. Construct a joint in the center of the sidewalk if it is over 15-feet wide. For steel reinforcement, use 6x6-inch spacing with #3 bars or 6x6 – D6 welded wire fabric.

ITEMS 636: Aluminum Signs

Complete sign blanks and panels shall be handled and stored at the job site in such a manner that corners, edges and faces are not damaged. Finished sign blanks shall be stored in either a weatherproof ware-house or outside and off the ground in a vertical position. All paper, cardboard and chemically treated separators and packaging shall be removed prior to outside storage.

Exit number panel supports and sign plaque supports will be considered subsidiary to item 636 aluminum signs.

Bottom align overhead signs on the OSB structure unless the difference in height is 2 feet or greater. If the sign height difference is 2 feet or greater then center align the signs.

On sign replacement, contractor shall plumb all existing mounts prior to the placement of the new sign panel.

Signs to be replaced shall be done on the same-workday; no existing mount is to be left without a sign overnight. Existing signs shall remain in place until a new sign and mount is complete and in place.

All excess excavation shall be spread uniformly inside the Right of Way or as directed and shall be included in the price of this item.

All sign panels of aluminum Type "G" shall have stiffeners as per TxDOT standards.

Any sign assemblies or supports that require modifications shall be coordinated with the District Traffic Section.

Signs shown to be removed shall include the complete sign installation and separate the sign post at the concrete foundation. The concrete foundation shall be disposed in accordance with this Bid Item. Except for concrete foundations and plywood signs, all removed sign panels, sign posts, and hardware, shall remain the property of the department. All removed sign installations shall be completely disassembled. All salvageable sections of sign panels shall be recycled by TxDOT. The removed sign material will be required to be hauled to the TxDOT District Yard at: 600 W. Interstate 2, Pharr, TX 78577. No sign shall be removed without prior approval.

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Contractor shall have equipment (e.g. bucket truck lifts, etc.) available for placement of signs as stated in the TxDOT standard specifications 2004 under item 636.

ITEM 644: Small Roadside Sign Assemblies

Existing signs shown to be removed and relocated within this project shall first be identified in the field before they are removed and relocated to their new installation position as determined in the plans or as directed by the engineer in the field. The complete sign assembly shall be removed and the sign with post shall be separated at the concrete foundation. The concrete foundation shall be disposed of in accordance with this bid Item. No sign shall be removed without prior approval.

All excess excavation shall be spread uniformly inside the Right of Way as directed and shall be included in the price of this item.

All signs shall be installed as shown in the plans or in accordance with the current edition of the "Texas Manual on Uniform Traffic Control Devices" and the "Sign Crew Field Book" (SCFB). All signs shall be erected according to the locations shown on the signing layout sheets except that a sign may be shifted in order to secure a more desirable location. All sign locations will be staked as shown in the plans and as approved. It is the intent of the plans to erect all roadside traffic signs with the sign edge a minimum of 6 feet from the edge of the shoulder, or if none, 12 feet from the edge of the travel lane. In curb and gutter sections the sign edge shall be a minimum of 2 feet from the face of the curb.

For this project, aluminum type sign blanks as provided for under Item 636 will be required for all proposed signing installed under Item 644. Aluminum sign blanks less than 7.5 square feet shall be 0.08 inch thick, sign blanks 7.5 to 15 square feet shall be 0.100 inch thick and sign blanks greater than 15 square feet shall be 0.125 inch thick.

Sign types which design details are not shown on the plans shall conform to the latest edition of the Department's "Standard Highway Sign Design for Texas" Manual.

Signs shown to be removed shall include the complete sign assembly and separate the sign post at the concrete foundation. The concrete foundation shall be disposed in accordance with this Bid Item. Except for concrete foundations, all removed sign panels, sign posts, and hardware shall remain the property of the Department. All removed sign assemblies shall be completely disassembled. All salvageable sections of sign panels shall be recycled by TxDOT. The removed

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sign material will be required to be hauled to the maintenance yard closest to the project. No signs shall be removed without prior approval.

ITEM 647: Large Roadside Sign Supports and Assemblies

New sign foundation stubs, when left overnight without installing signs and posts, shall be protected with plastic construction fencing a minimum of 4 feet high and a TYPE 3 barricade or with plastic drums.

ESTIMATE SUMMARY

A L T	ITEM- CODE			DESCRIPTION	U N I T	IH 2		IH 69C		IH 69E			
	ITEM NO	DESC CODE	SP NO					EST.	FINAL	EST.	FINAL	EST.	FINAL
	104	6028		REMOVING CONC (MISC)	SY	2.00		2.00		2.00			
	416	6015		DRILL SHAFT (NON REINFORCED) (12 IN)	LF					36.00			
	416	6018		DRILL SHAFT (SIGN MTS) (24 IN)	LF	48.00		12.00		36.00			
	432	6007		RIPRAP (CONC) (CL C)	CY	7.60		1.60		4.30			
	500	6001		MOBILIZATION	LS	1.00							
	502	6001		BARRICADES, SIGNS, AND TRAFFIC HANDLING	MO	18.00							
	506	6038	002	TEMP SEDMT CONT FENCE (INSTALL)	LF	50.00		50.00		50.00			
	506	6039	002	TEMP SEDMT CONT FENCE (REMOVE)	LF	50.00		50.00		50.00			
	506	6042	002	BIODEG EROSN CONT LOGS (INSTL) (18")	LF	100.00		100.00		100.00			
	531	6001		CONC SIDEWALKS (4")	SY	2.00		2.00		2.00			
	636	6001		ALUMINUM SIGNS (TY A)	SF	27.00		18.00		90.00			
	636	6002		ALUMINUM SIGNS (TY G)	SF	216.00		78.75		377.55			
	636	6008		REPLACE EXISTING ALUMINUM SIGNS (TY G)	SF	5,033.75		1,421.50		4,475.75			
	636	6009		REPLACE EXISTING ALUMINUM SIGNS (TY O)	SF	7,218.00		1,076.75		10,517.50			
	647	6001		INSTALL LRSS (STRUCT STEEL)	LB	10,089.58		1,683.85		17,497.80			
	647	6003		REMOVE LRSA	EA	4.00		1.00		2.00			

STATE DISTRICT	COUNTY	PROJECT NO.	SHEET NO.
PHARR	HIDALGO, ETC.	6353-00-001	9

ALEX T:\PHRR\FOP\ALEX M\169 (Pharr District)\eq2.dgn

ESTIMATE SUMMARY

ALEX T: \\PHRR\FOP\ALEX M\169 (Pharr District)\eq2.dgn

AL T	ITEM- CODE			DESCRIPTION	U N I T	GRAND TOTAL	
	ITEM NO	DESC CODE	SP NO			EST.	FINAL
	•						
	104	6028		REMOVING CONC (MISC)	SY	6.00	
	416	6015		DRILL SHAFT (NON REINFORCED) (12 IN)	LF	36.00	
	416	6018		DRILL SHAFT (SIGN MTS) (24 IN)	LF	96.00	
	432	6007		RIPRAP (CONC) (CL C)	CY	13.50	
	500	6001		MOBILIZATION	LS	1.00	
	502	6001		BARRICADES, SIGNS, AND TRAFFIC HANDLING	MO	18.00	
	506	6038	002	TEMP SEDMT CONT FENCE (INSTALL)	LF	150.00	
	506	6039	002	TEMP SEDMT CONT FENCE (REMOVE)	LF	150.00	
	506	6042	002	BIODEG EROSN CONT LOGS (INSTL) (18")	LF	300.00	
	531	6001		CONC SIDEWALKS (4")	SY	6.00	
	636	6001		ALUMINUM SIGNS (TY A)	SF	135.00	
	636	6002		ALUMINUM SIGNS (TY G)	SF	672.25	
	636	6008		REPLACE EXISTING ALUMINUM SIGNS (TY G)	SF	10,931.00	
	636	6009		REPLACE EXISTING ALUMINUM SIGNS (TY O)	SF	18,812.25	
	647	6001		INSTALL LRSS (STRUCT STEEL)	LB	29,271.23	
	647	6003		REMOVE LRSA	EA	7.00	

ESTIMATE & QUANTITY SHEET

STATE DISTRICT	COUNTY	PROJECT NO.	SHEET NO.
PHARR	HIDALGO, ETC.	6353-00-001	10

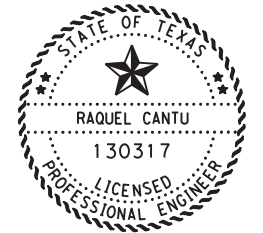
OMIT

ESTIMATE & QUANTITY SHEET

STATE DISTRICT	COUNTY	PROJECT NO.	SHEET NO.
PHARR	HIDALGO, ETC.	6353-00-001	11



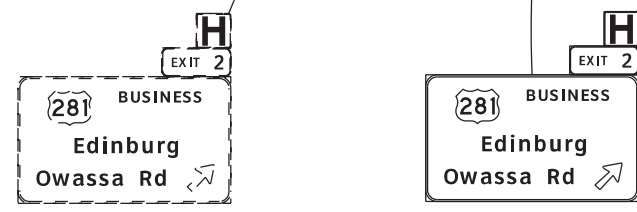
SCALE: N. T. S.



Raquel Cantu 11.05.20

LEGEND

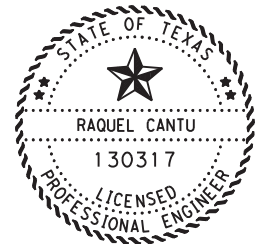
- LARGE SIGN TO BE REMOVED
- LARGE SIGN TO BE INSTALLED
- SMALL SIGN TO BE REMOVED
- SMALL SIGN TO BE INSTALLED
- SIGN TO REMAIN IN PLACE
- LARGE SIGN TO BE RELOCATED



TEXAS DEPARTMENT OF TRANSPORTATION
IH-69C
LARGE SIGN LAYOUTS

© 2020		SHEET 1 OF 11					
DR: CBR	DRAWING: ORIGINAL	DATE: SEP. 2020	FED. PROJ. NO.:	STATE: TEXAS	FEDERAL PROJECT NO.:		SHEET NO. 12
CK DR: GV			STATE DIST. NO.:	COUNTY: PHARR	CONTROL NO.:	SECTION NO.:	JOB NO.:
DR: CBR				HIDALGO	6353	0000	IH-2
CK DR: GV							ETC.

N
SCALE: N. T. S.



Raquel Cantu 11.05.20

LEGEND

- LARGE SIGN TO BE REMOVED
- LARGE SIGN TO BE INSTALLED
- SMALL SIGN TO BE REMOVED
- SMALL SIGN TO BE INSTALLED
- SIGN TO REMAIN IN PLACE
- LARGE SIGN TO BE RELOCATED



TEXAS DEPARTMENT OF TRANSPORTATION
IH-69C
LARGE SIGN LAYOUTS

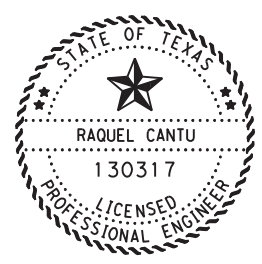
© 2020 SHEET 2 OF 11

DR: CBR	DRAWING	DATE	FED. DIST. NO.	STATE	FEDERAL PROJECT NO.	SHEET NO.
CK DR: GV	ORIGINAL	SEP. 2020		TEXAS		13
DR: CBR			STATE DIST. NO.	COUNTY	CONTROL NO.	SECTION NO.
CK DR: GV			PHARR	HIDALGO	6353	00 001

ETC. IH-2, ETC.



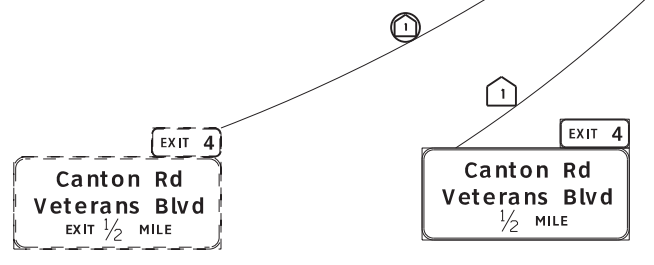
EXIT 2
E5-1c



Raquel Cantu 11.05.20

LEGEND

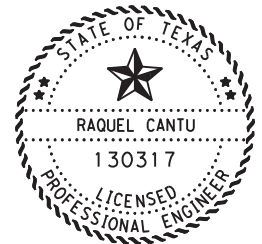
- LARGE SIGN TO BE REMOVED
- LARGE SIGN TO BE INSTALLED
- SMALL SIGN TO BE REMOVED
- SMALL SIGN TO BE INSTALLED
- SIGN TO REMAIN IN PLACE
- LARGE SIGN TO BE RELOCATED



TEXAS DEPARTMENT OF TRANSPORTATION
IH-69C
LARGE SIGN LAYOUTS

© 2020 SHEET 3 OF 11

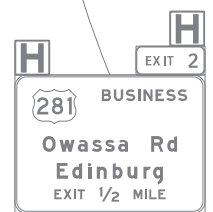
DR: CBR	DRAWING	DATE	FED. PROJ. NO.	STATE	FEDERAL PROJECT NO.	SHEET NO.
CK DR: GV	ORIGINAL	SEP. 2020		TEXAS		14
DR: CBR			STATE DIST. NO.	COUNTY	CONTROL NO.	SECTION NO.
CK DR: GV			PHARR	HIDALGO	6353	00 001
						JOB NO. HIGHWAY NO.
						IH-2, ETC.



Raquel Cantu 11.05.20

LEGEND

- LARGE SIGN TO BE REMOVED
- LARGE SIGN TO BE INSTALLED
- SMALL SIGN TO BE REMOVED
- SMALL SIGN TO BE INSTALLED
- SIGN TO REMAIN IN PLACE
- LARGE SIGN TO BE RELOCATED

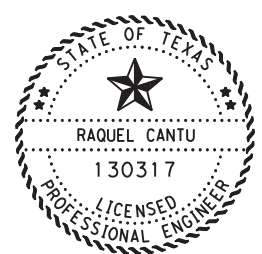


TEXAS DEPARTMENT OF TRANSPORTATION
IH-69C
LARGE SIGN LAYOUTS

© 2020 SHEET 4 OF 11

DR: CBR	DRAWING	DATE	FED. NO.	STATE	FEDERAL PROJECT NO.	SHEET NO.
CK DR: GV	ORIGINAL	SEP. 2020		TEXAS		15
DR: CBR			STATE DIST. NO.	COUNTY	CONTROL NO.	SECTION NO.
CK DR: GV			PHARR	HIDALGO	6353	00 001

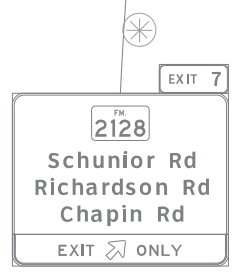
ETC. ETC.



Raquel Cantu 11.05.20

LEGEND

- LARGE SIGN TO BE REMOVED
- LARGE SIGN TO BE INSTALLED
- SMALL SIGN TO BE REMOVED
- SMALL SIGN TO BE INSTALLED
- SIGN TO REMAIN IN PLACE
- LARGE SIGN TO BE RELOCATED

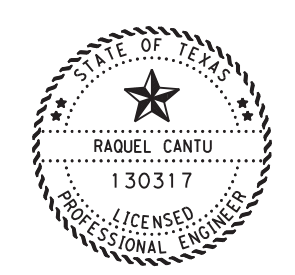


TEXAS DEPARTMENT OF TRANSPORTATION
IH-69C
LARGE SIGN LAYOUTS

© 2020 SHEET 5 OF 11

DR: CBR	DRAWING	DATE	TITLE NO.	STATE	FEDERAL PROJECT NO.	SHEET
CK DR: GV	ORIGINAL	SEP. 2020		TEXAS		16
DR: CBR			STATE DIST. NO.	COUNTY	CONTROL NO.	SECTION NO.
CK DR: GV			PHARR	HIDALGO	6353	00 001

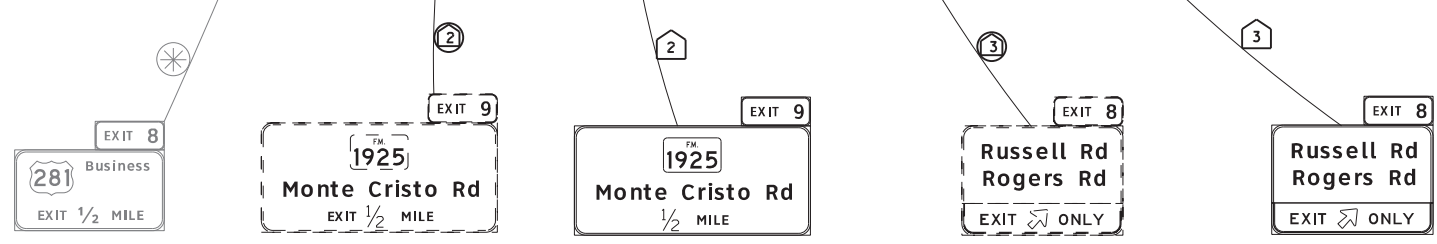
IH-2, ETC.



Raquel Cantu 11.05.20

LEGEND

- LARGE SIGN TO BE REMOVED
- LARGE SIGN TO BE INSTALLED
- SMALL SIGN TO BE REMOVED
- SMALL SIGN TO BE INSTALLED
- SIGN TO REMAIN IN PLACE
- LARGE SIGN TO BE RELOCATED

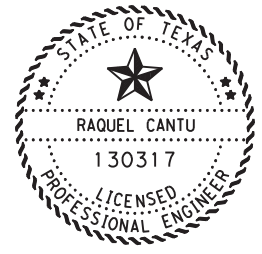


TEXAS DEPARTMENT OF TRANSPORTATION
IH-69C
LARGE SIGN LAYOUTS

© 2020 SHEET 6 OF 11

DR: CBR	DRAWING	DATE	FED. DIST. NO.	STATE	FEDERAL PROJECT NO.	SHEET
DR: GV	ORIGINAL	SEP. 2020		TEXAS		17
DR: CBR			STATE DIST. NO.	COUNTY	CONTROL NO.	SECTION NO.
DR: GV			PHARR	HIDALGO	6353	00 001
						JOB NO. HIGHWAY NO.
						11-2

ETC. ETC.



Raquel Cantu 11.05.20

LEGEND

- LARGE SIGN TO BE REMOVED
- LARGE SIGN TO BE INSTALLED
- SMALL SIGN TO BE REMOVED
- SMALL SIGN TO BE INSTALLED
- SIGN TO REMAIN IN PLACE
- LARGE SIGN TO BE RELOCATED

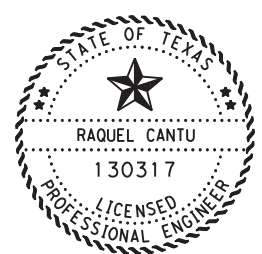
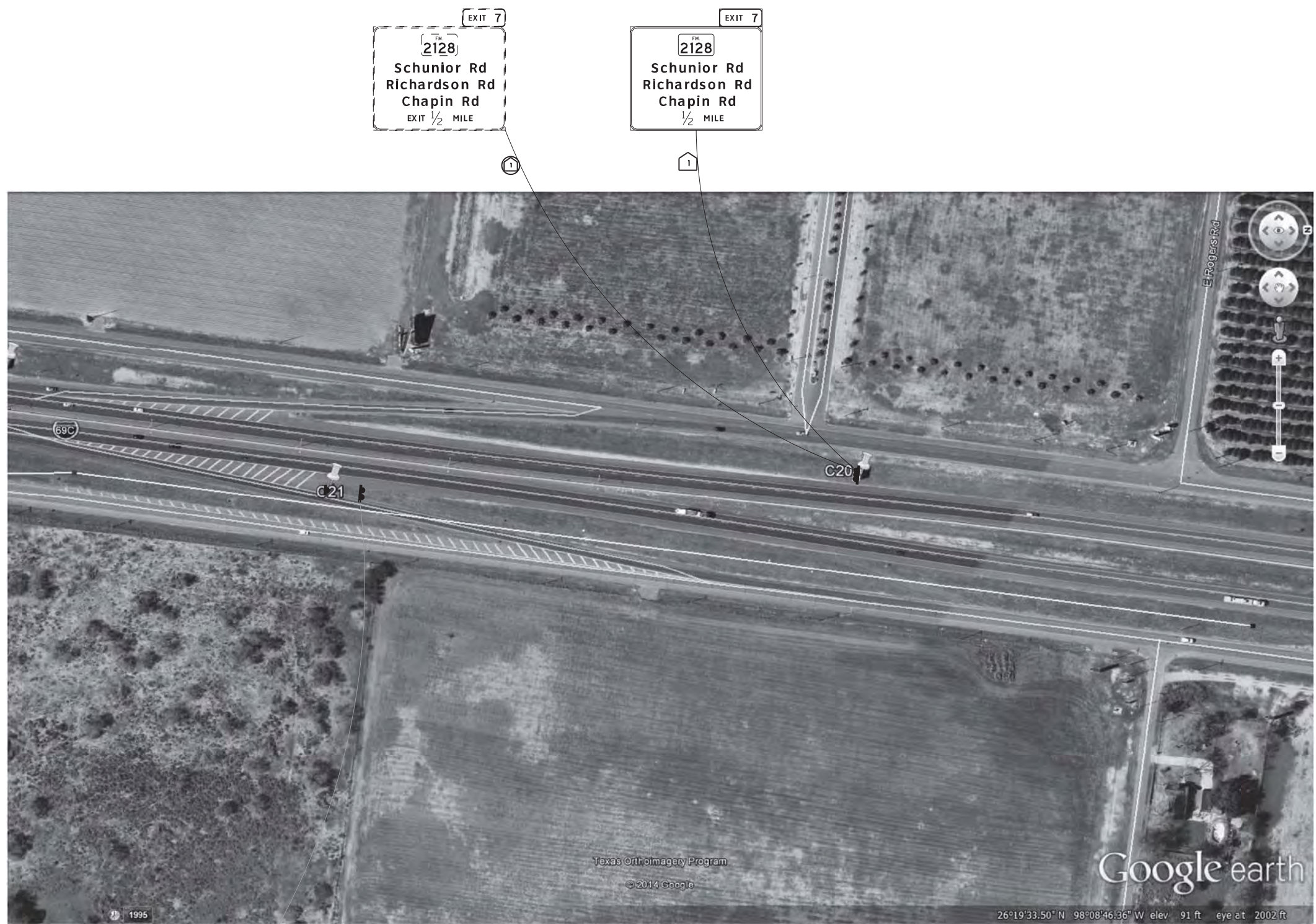


TEXAS DEPARTMENT OF TRANSPORTATION
IH-69C
LARGE SIGN LAYOUTS

© 2020 SHEET 7 OF 11

DR: CBR	DRAWING	DATE	FED. PROJ. NO.	STATE	FEDERAL PROJECT NO.	SHEET NO.
CK DR: GV	ORIGINAL	SEP. 2020		TEXAS		18
DR: CBR			STATE DIST. NO.	COUNTY	CONTROL NO.	SECTION NO.
CK DR: GV			PHARR	HIDALGO	6353	00 001

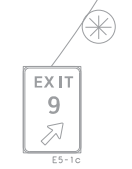
ETC. IH-2, ETC.



Raquel Cantu 11.05.20

LEGEND

- LARGE SIGN TO BE REMOVED
- LARGE SIGN TO BE INSTALLED
- SMALL SIGN TO BE REMOVED
- SMALL SIGN TO BE INSTALLED
- SIGN TO REMAIN IN PLACE
- LARGE SIGN TO BE RELOCATED



TEXAS DEPARTMENT OF TRANSPORTATION
IH-69C
LARGE SIGN LAYOUTS

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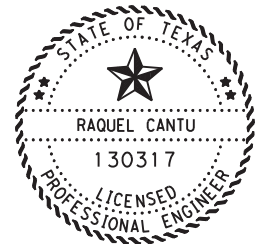
DR: CBR	DRAWING	DATE	FED. PROJ. NO.	STATE	FEDERAL PROJECT NO.	SHEET NO.
CK DR: GV	ORIGINAL	SEP. 2020		TEXAS		19
DR: CBR			STATE DIST. NO.	COUNTY	CONTROL NO.	SECTION NO.
CK DR: GV			PHARR	HIDALGO	6353	00 001

ETC. IH-2, ETC.

EXIT 9
 1925
 Monte Cristo Rd
 EXIT 1/2 MILE

EXIT 10
 ES-1c

N
 SCALE: N. T. S.



Raquel Cantu 11.05.20

LEGEND

- LARGE SIGN TO BE REMOVED
- LARGE SIGN TO BE INSTALLED
- SMALL SIGN TO BE REMOVED
- SMALL SIGN TO BE INSTALLED
- SIGN TO REMAIN IN PLACE
- LARGE SIGN TO BE RELOCATED

EXIT 11
 Davis Dr
 Ramseyer Rd

EXIT 11
 Davis Dr
 Ramseyer Rd

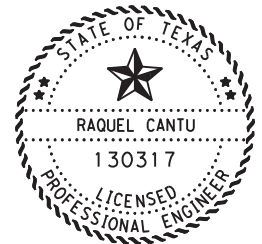
EXIT 11
 ES-1c

TEXAS DEPARTMENT OF TRANSPORTATION
IH-69C
LARGE SIGN LAYOUTS

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DR: CBR	DRAWING DATE	FED. PROJ. NO.	STATE	FEDERAL PROJECT NO.	SHEET NO.
CK DR: GV	ORIGINAL SEP. 2020		TEXAS		20
DR: CBR		STATE DIST. NO.	COUNTY	CONTROL NO.	SECTION NO.
CK DR: GV		PHARR	HIDALGO	6353	00 001

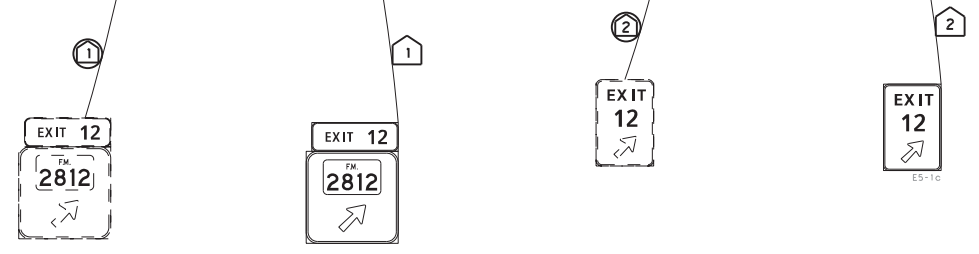
ETC. IH-2. ETC.



Raquel Cantu 11.05.20

LEGEND

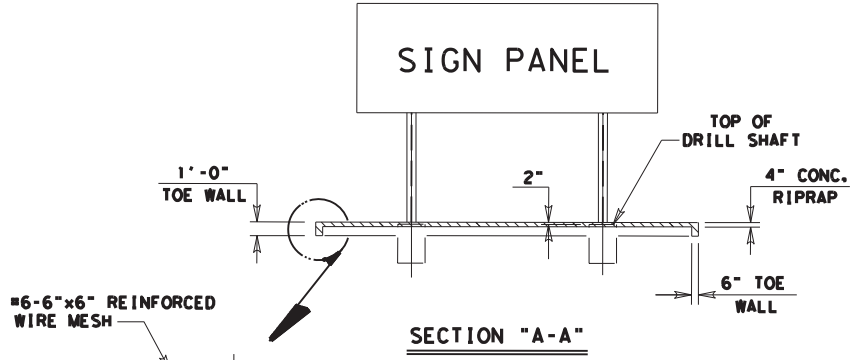
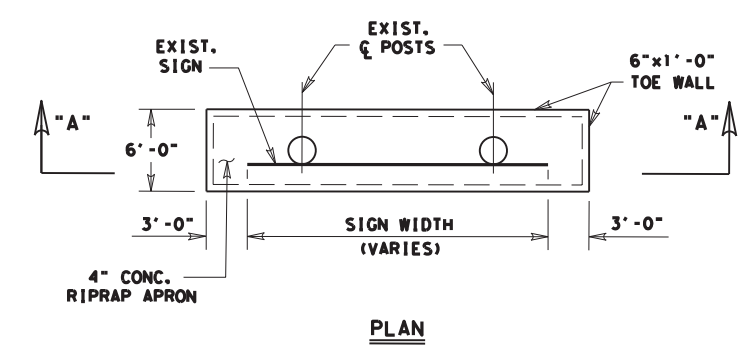
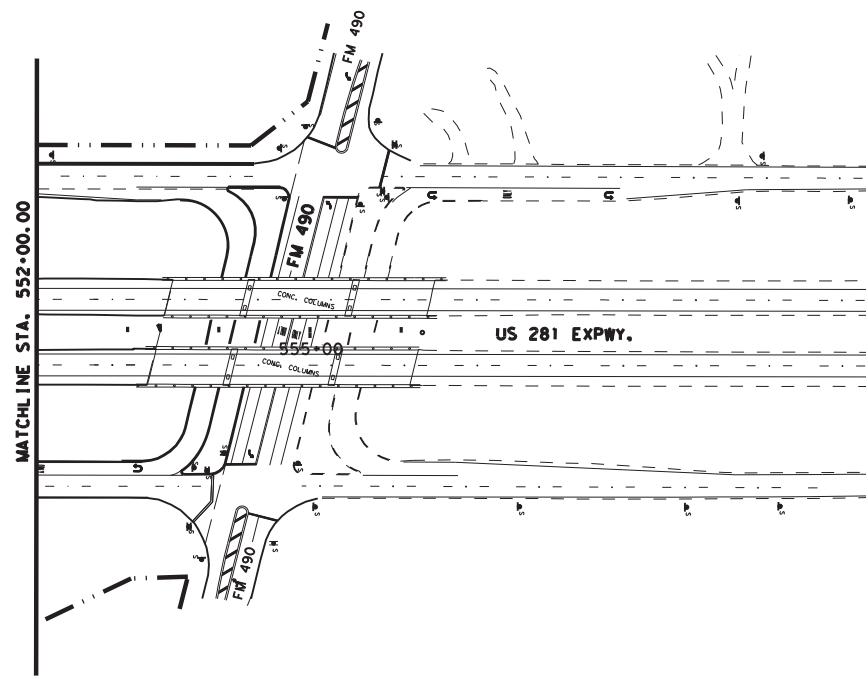
- LARGE SIGN TO BE REMOVED
- LARGE SIGN TO BE INSTALLED
- SMALL SIGN TO BE REMOVED
- SMALL SIGN TO BE INSTALLED
- SIGN TO REMAIN IN PLACE
- LARGE SIGN TO BE RELOCATED



TEXAS DEPARTMENT OF TRANSPORTATION
IH-69C
LARGE SIGN LAYOUTS

© 2020 SHEET 10 OF 11

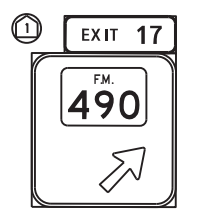
DR: CBR	DRAWING: ORIGINAL	DATE: SEP. 2020	FED. DIST. NO.: TEXAS	STATE: TEXAS	FEDERAL PROJECT NO.:	SHEET NO.: 21
DR: CBR	STATE DIST. NO.: PHARR	COUNTY: HIDALGO	CONTROL NO.: 6353	SECTION NO.: 00	JOB NO.: 001	ROUTE NO.: IH-2
DR: GV	ETC.					ETC.



CONCRETE RIPRAP FOR SIGN MULTIPLE POST GROUND MOUNTS

NOTE:
CONCRETE FOR RIPRAP SHALL BE CLASS "B" AND SHALL BE REINFORCED AS SPECIFIED IN GENERAL NOTES FOR ITEM 432 "RIPRAP".

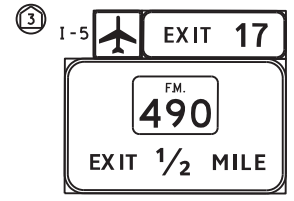
SCALE: N. T. S.



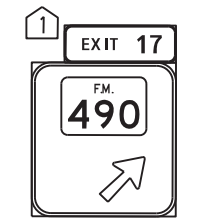
APPROX. .5 MILE NORTH OF FM 490



APPROX. .7 MILE NORTH OF FM 490



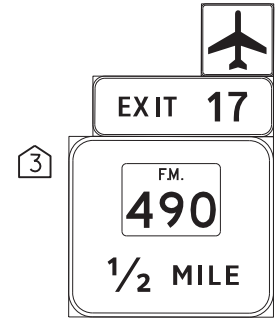
APPROX. .92 MILE NORTH OF FM 490



APPROX. .5 MILE NORTH OF FM 490



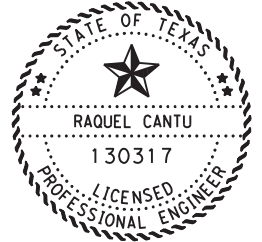
APPROX. .7 MILE NORTH OF FM 490



APPROX. .92 MILE NORTH OF FM 490

LEGEND

- LARGE SIGN TO BE INSTALLED
- LARGE SIGN TO BE REMOVED
- LARGE SIGN TO BE RELOCATED
- SIGN TO REMAIN IN PLACE
- SMALL SIGN TO BE INSTALLED
- SMALL SIGN TO BE REMOVED
- SMALL SIGN TO BE RELOCATED



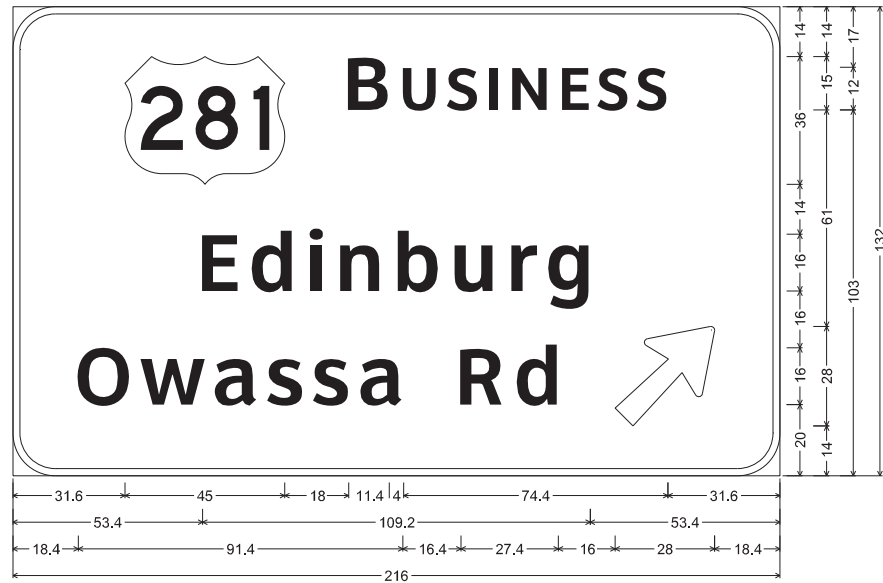
Raquel Cantu 11.05.20

TEXAS DEPARTMENT OF TRANSPORTATION
IH-69C LARGE SIGN LAYOUTS

© 2020 TxDOT

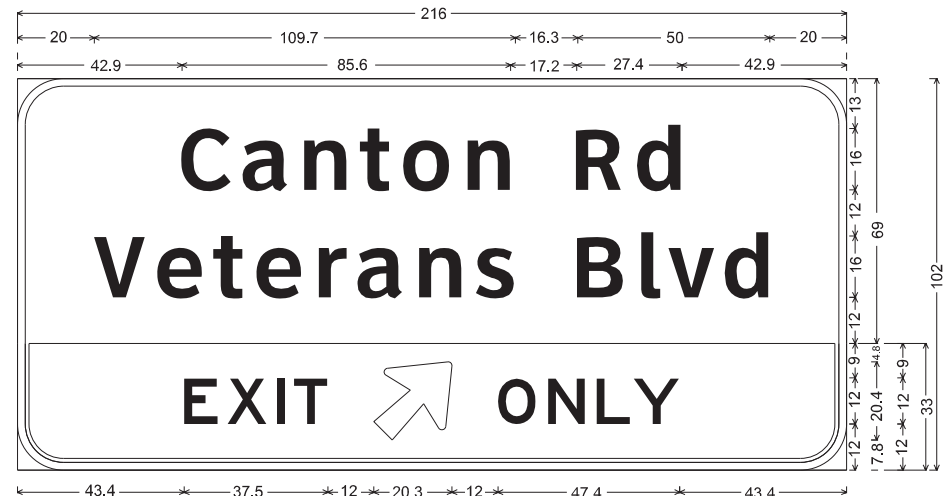
DN: CBR	DRAWING	DATE	FILE NO.	STATE	PROJECT NO.	SHEET NO.
CK DN: GV	ORIGINAL	SEP. 2020	6	TEXAS		22
DW: CBR				STATE DIST. NO.	COUNTY	CONTRACT NO.
CK DW: GV				PHARR	HIDALGO,	6353 00 001

ETC. IH-2, ETC.



12.0" Radius, 2.0" Border, White on, Green;
 US 281 M1-4; "B", ClearviewHwy-5-W-R; "BUSINESS", ClearviewHwy-5-W-R;
 "Edinburg", ClearviewHwy-5-W-R; "Owassa Rd", ClearviewHwy-5-W-R; Arrow A-3 - 35.6" 45";

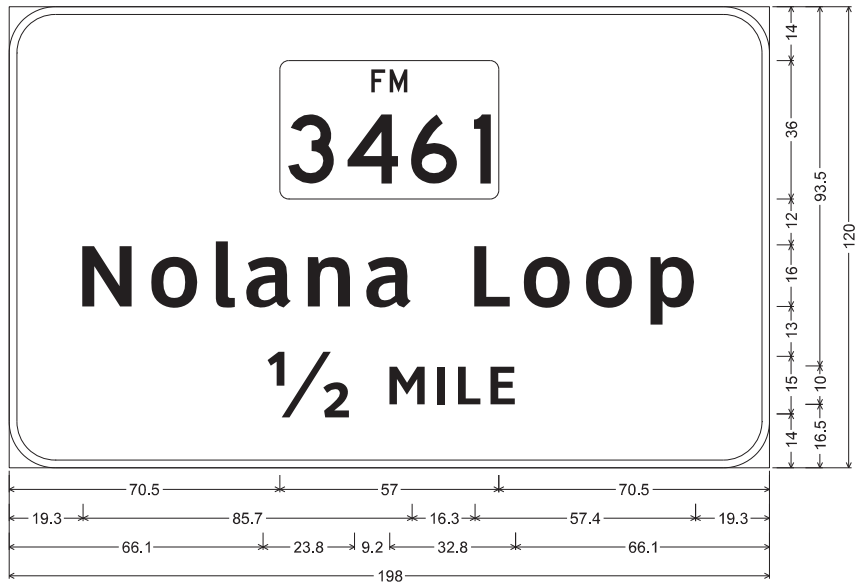
SHEET NO. **SIGN NO.**
 1/11 1



Identifier : E11-1aR;
 12.0" Radius, 2.0" Border, White on Green;
 [Canton Rd] ClearviewHwy-5-W-R; [Veterans Blvd] ClearviewHwy-5-W-R;
 Identifier : E11-1e;
 1.0" Inner border Green, 12.0" Radius, 2.0" Outer border, White on Yellow;
 [EXIT] Black E; Arrow B-3 - 25.0" 45° Black; [ONLY] Black E;
 Table of letter and object lefts.

C	a	n	t	o	n	R	d				
42.9	58.7	74.8	89.3	100.5	117.4	145.7	161.5				
V	e	t	e	r	a	n	s	B	l	v	d
20.0	36.5	51.1	62.3	78.6	88.6	104.7	119.4	146.0	162.6	169.6	184.3
E	X	I	T	↗	O	N	L	Y			
43.4	54.7	67.5	72.1	92.9	125.2	138.3	150.9	160.6			

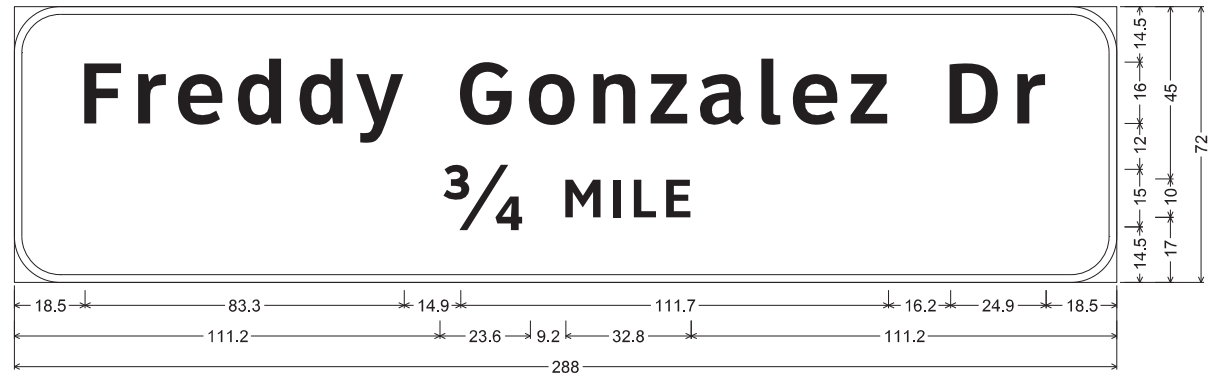
SHEET NO. **SIGN NO.**
 4/11 1



Sequence Sign;
 12.0" Radius, 2.0" Border, White on, Green;
 State Highway 3461 M1-6F4; "Nolana Loop", ClearviewHwy-5-W-R; "1/2", ClearviewHwy-5-W-R;
 "MILE", ClearviewHwy-5-W-R;
 Table of letter and object lefts

5.5	70.5								
N	o	l	a	n	a	L	o	o	p
19.3	37.1	53.9	61.8	77.8	93.0	121.3	134.1	150.3	167.1
1/2	M	I	L	E					
66.1	99.1	111.6	117.0	125.5					

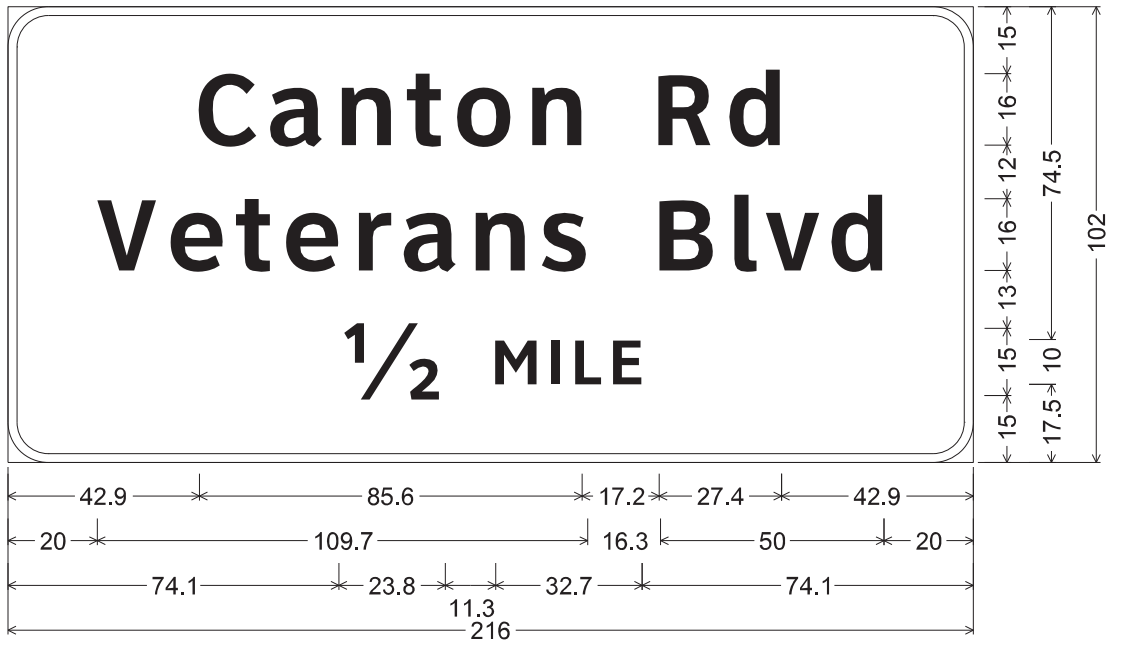
SHEET NO. **SIGN NO.**
 2/11 1



12.0" Radius, 2.0" Border, White on, Green;
 "Freddy Gonzalez Dr", ClearviewHwy-5-W-R; "3/4 MILE", ClearviewHwy-5-W-R;
 Table of widths and spaces

18.5	F	9.8	4.1	r	7.4	3.0	e	11.8	3.8	d	11.7	4.4	d	11.7	3.2	y	12.4	14.9	G	13.9	3.9	o	12.3	4.5	n	11.1	3.9	z	9.8	3.0	a	12.0	4.1	l	5.2	3.0	e	11.9	3.2	z	9.9
				D	16.2	12.9	4.6	r	7.4	18.5																															
111.2	23.6	9.2	9.2	3.3	2.1	3.4	5.8	2.6	6.4	111.2																															

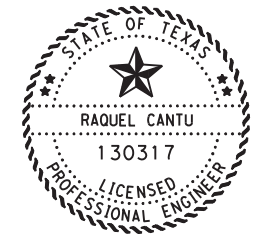
SHEET NO. **SIGN NO.**
 5/11 1



I Road exit 1/2 mile;
 9.0" Radius, 2.0" Border, White on, Green;
 "Canton Rd", ClearviewHwy-5-W-R; "Veterans Blvd", ClearviewHwy-5-W-R;
 "1/2 MILE", ClearviewHwy-5-W-R;
 Table of letter and object lefts

C	a	n	t	o	n	R	d				
42.9	58.7	74.8	89.3	100.5	117.4	145.7	161.5				
V	e	t	e	r	a	n	s	B	l	v	d
20.0	36.5	51.1	62.3	78.6	88.6	104.7	119.4	146.0	162.6	169.6	184.3
1/2	M	I	L	E							
74.1	109.2	121.6	127.1	135.5							

SHEET NO. **SIGN NO.**
 3/11 1

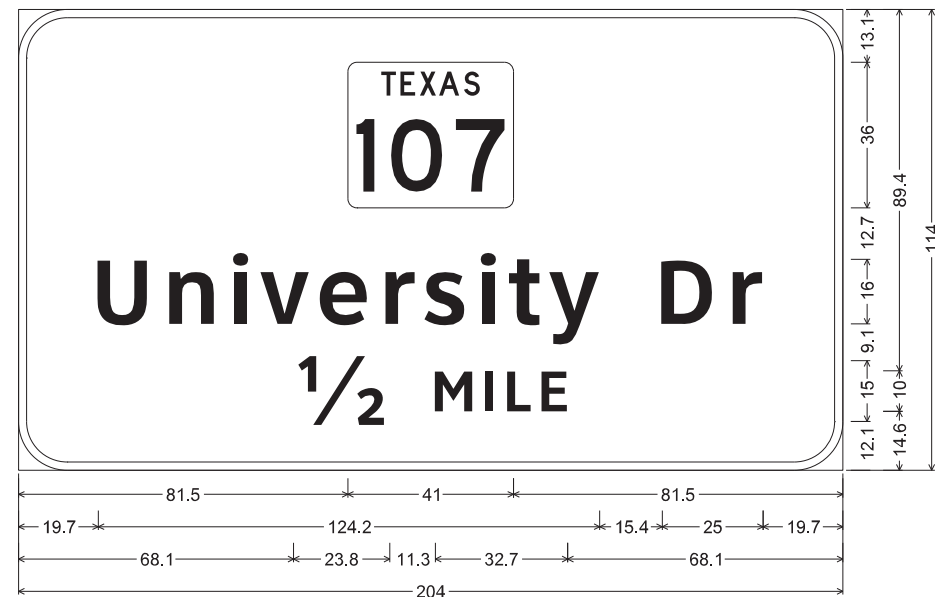


Raquel Cantu 11.05.20

TEXAS DEPARTMENT OF TRANSPORTATION
IH-69C
LARGE SIGN DETAIL SHEETS

©2020 SHEET 1 OF 5

DN: CBR	DRAWING ORIGINAL	DATE SEP. 2020	FEDERAL DIST. NO.	STATE TEXAS	FEDERAL PROJECT NO.	SHEET NO. 23
CK DN: GV	DW: CBR	CK DW: GV	STATE DIST. NO. PHARR	COUNTY HIDALGO,	CONTROL NO. 6353	SECTION NO. 00
			JOB NO. 001	HIGHWAY NO. IH-2,	ETC.	ETC.

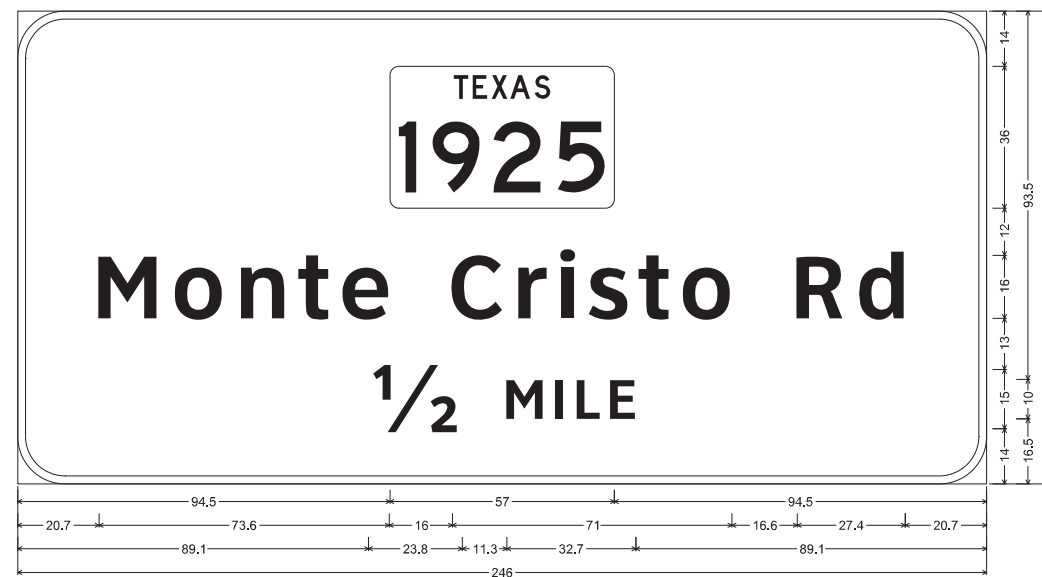


12.0" Radius, 2.0" Border, White on, Green;
 State Highway 107 M1-6T3; "University Dr", ClearviewHwy-5-W-R;
 "1/2 MILE", ClearviewHwy-5-W-R;

Table of widths and spaces

81.5	41.0	81.5																	
U	n	i	v	e	r	s	i	t	y										
19.7	12.5	5.2	11.1	4.7	3.8	2.9	12.2	2.5	11.9	4.4	7.4	2.2	10.3	3.7	3.8	3.1	8.0	2.0	12.5
	D	r																	
	15.4	12.9	4.6	7.5	19.7														
	1/2	M	I	L	E														
68.1	23.8	11.3	9.1	3.3	2.1	3.4	5.8	2.6	6.4	68.1									

SHEET NO. 6/11
SIGN NO. 1

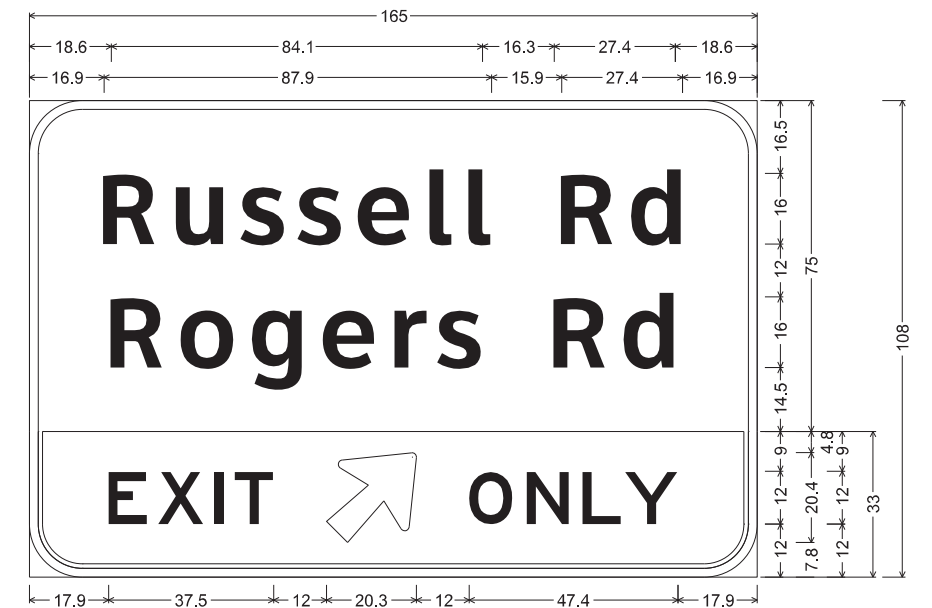


FM 2557 South Stewart Rd exit 3/4 mile:
 12.0" Radius, 2.0" Border, White on, Green;
 State Highway 1925 M1-6T4; "Monte Cristo Rd", ClearviewHwy-5-W-R; "1/2 MILE", ClearviewHwy-5-W-R;

Table of letter and object lefts

94.5												
M	o	n	t	e	C	r	i	s	t	o	R	d
20.7	39.9	56.7	71.3	82.5	110.3	127.2	137.8	145.0	157.7	168.9	197.9	213.7
	1/2	M	I	L	E							
89.1	124.2	136.6	142.1	150.5								

SHEET NO. 6/11
SIGN NO. 2



E11-1aR;

12.0" Radius, 2.0" Border, White on, Green;
 "Russell Rd", ClearviewHwy-5-W-R; "Rogers Rd", ClearviewHwy-5-W-R;

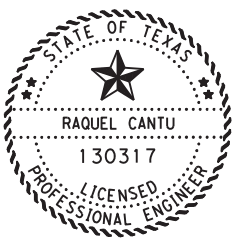
E11-1e;

1.0" Inner border Green, 12.0" Radius, 2.0" Outer border, White on, Yellow;
 "EXIT" Black, E; Arrow B-3 - 25.0" 45' Black; "ONLY" Black, E;

Table of letter and object lefts

R	u	s	s	e	l	l	R	d
16.9	33.3	47.8	60.8	74.5	90.8	99.6	120.7	136.4
R	o	g	e	r	s	R	d	
18.6	34.3	50.5	66.6	82.9	92.4	119.0	134.7	
E	X	I	T	↗	O	N	L	Y
17.9	29.2	42.0	46.6	67.4	99.7	112.8	125.4	135.1

SHEET NO. 6/11
SIGN NO. 3



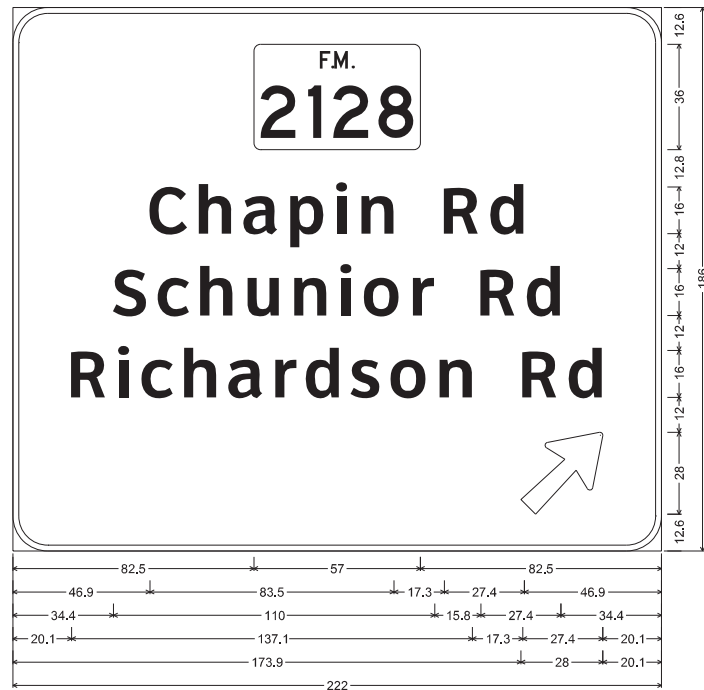
Raquel Cantu 11.05.20

TEXAS DEPARTMENT OF TRANSPORTATION
IH-69C
LARGE SIGN DETAIL SHEETS

©2020 SHEET 2 OF 5

DN: CBR	DRAWING	DATE	FED. NO.	STATE	FEDERAL PROJECT NO.	SHEET NO.
CK DN: GV	ORIGINAL	SEP. 2020		TEXAS		24
DW: CBR			STATE DIST. NO.	COUNTY	CONTROL NO.	SECTION NO.
CK DN: GV			PHARR	HIDALGO,	6353 00	001

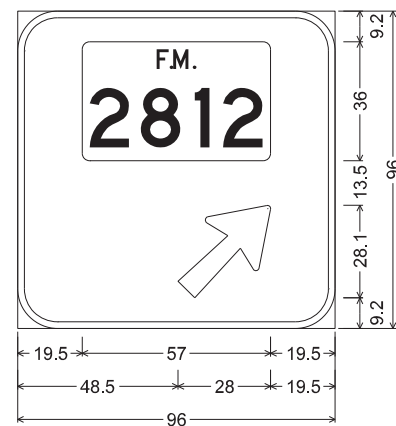
ETC. ETC.



12.0" Radius, 2.0" Border, White on, Green;
 State Highway 2128 4; "Chapin Rd", ClearviewHwy-5-W-R; "Schunior Rd", ClearviewHwy-5-W-R;
 "Richardson Rd", ClearviewHwy-5-W-R; Arrow A-3 - 35.6" 45";
 Table of widths and spaces

82.5	57.0	82.5
C	h	a
13.1	3.7	11.1
46.9	11.1	4.1
S	c	h
11.7	3.5	11.0
34.4	11.7	3.5
R	l	c
20.1	11.9	4.1
17.3	R	d
173.9	28.0	20.1

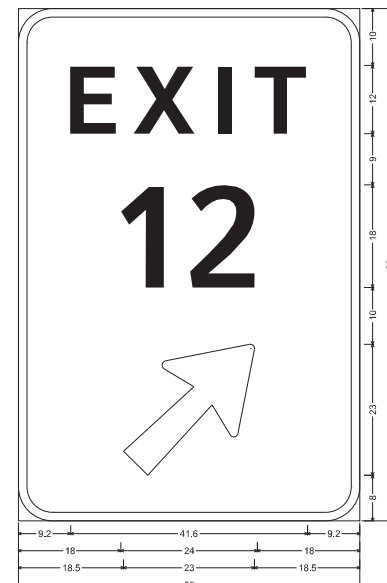
SHEET NO. 7/11
SIGN NO. 1



FM 2812 arrow 45 right;
 12.0" Radius, 2.0" Border, White on, Green;
 State Highway 2812 4;
 Arrow A-3 - 35.6" 45";
 Table of letter and object lefts

19.5
48.5

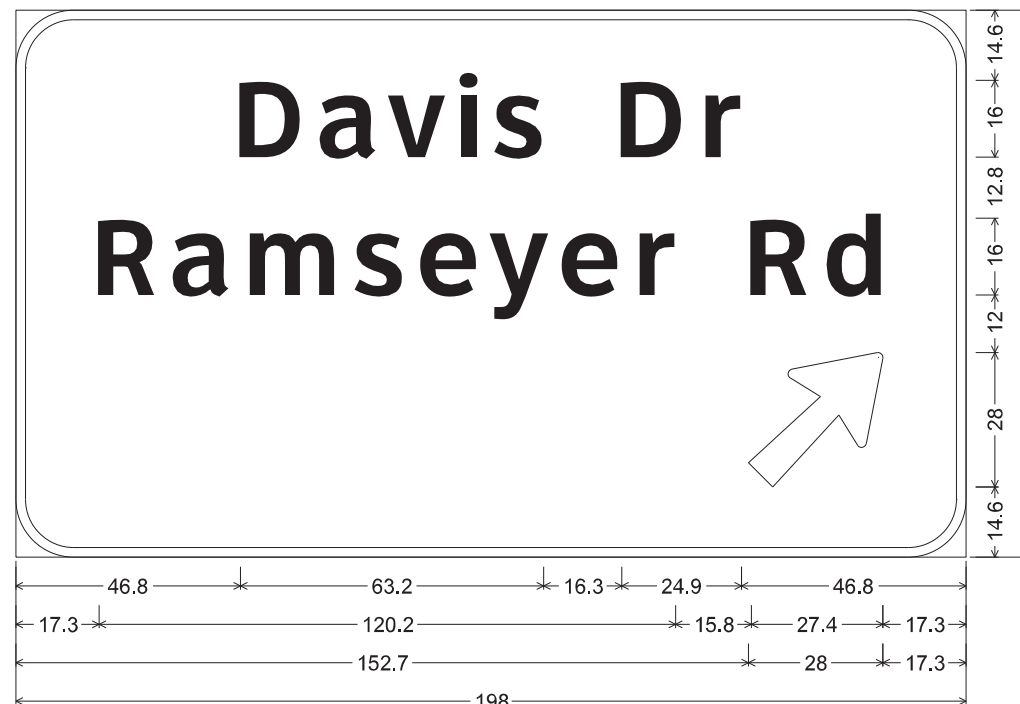
SHEET NO. 10/11
SIGN NO. 1



6.0" Radius, 1.5" Border, White on, Green;
 "EXIT", ClearviewHwy-5-W; "12", ClearviewHwy-4-W;
 Arrow A-2 - 29.3" 45";
 Table of letter and object lefts

E	X	I	T
5.2	20.3	35.2	41.6
1	2		
18.0	30.4		
18.5			

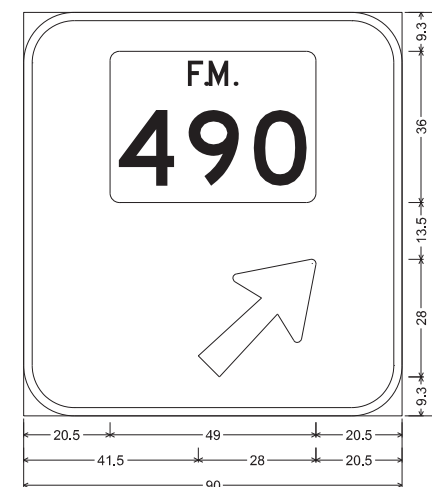
SHEET NO. 10/11
SIGN NO. 2



12.0" Radius, 2.0" Border, White on, Green;
 "Davis Dr", ClearviewHwy-5-W-R; "Ramseyer Rd", ClearviewHwy-5-W-R;
 Arrow A-3 - 35.6" 45";
 Table of widths and spaces

46.8	D	a	v	i	s	D	r	46.8
12.9	3.6	12.0	2.2	12.2	2.8	3.8	3.4	10.3
17.3	R	a	m	s	e	y	e	r
12.0	3.4	11.9	4.2	18.1	3.7	10.3	3.4	11.9
2.5	12.5	2.6	11.8	4.5	7.4			
15.8	R	d	17.3					
11.9	3.8	11.7						
152.7	28.0	17.3						

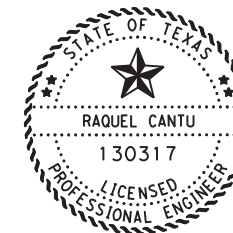
SHEET NO. 9/11
SIGN NO. 1



12.0" Radius, 2.0" Border, White on, Green;
 State Highway 490 3; Arrow A-3 - 35.6" 45";
 Table of letter and object lefts

20.5
41.5

SHEET NO. 11/11
SIGN NO. 1

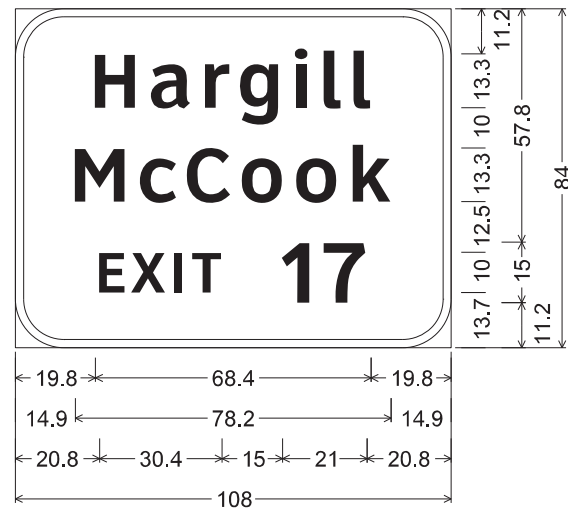


Raquel Cantu 11.05.20

TEXAS DEPARTMENT OF TRANSPORTATION

IH-69C
 LARGE SIGN DETAIL SHEETS

©2020		SHEET 3 OF 5	
DN: CBR	DRAWING ORIGINAL	DATE SEP. 2020	FED. PROJ. NO.
CK DN: GV			STATE TEXAS
DW: CBR			COUNTY
CK DW: GV			PHARR
			HIDALGO,
			6353 00 001
			IB-2,
			ETC.

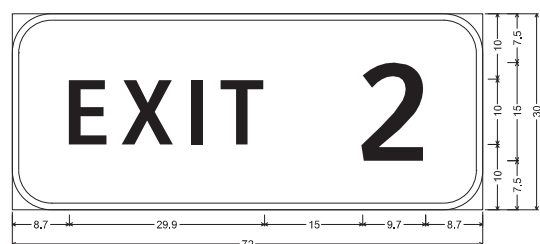


Virgen De San Basilica & Shrine next exit;
 12.0" Radius, 2.0" Border, White on, Green;
 "Hargill", ClearviewHwy-5-W-R;
 "McCook", ClearviewHwy-5-W-R;
 "EXIT", ClearviewHwy-5-W-R;
 "17", ClearviewHwy-5-W-R;

Table of letter and object lefts

H	a	r	g	i	l	l
19.8	33.6	47.0	55.7	69.3	76.5	83.9
M	c	C	o	o	k	
14.9	30.9	42.7	56.1	69.6	83.6	
E	X	I	T	1	7	
20.8	28.7	39.5	43.9	66.2	76.6	

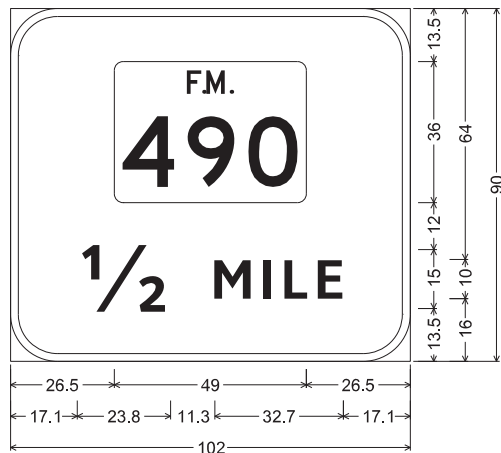
SHEET NO. 11/11 **SIGN NO.** 2



6.0" Radius, 1.0" Border, White on, Green;
 "EXIT", ClearviewHwy-4-W; "2", ClearviewHwy-4-W;
 Table of letter and object lefts

E	X	I	T	2
8.7	16.7	27.4	31.8	53.6

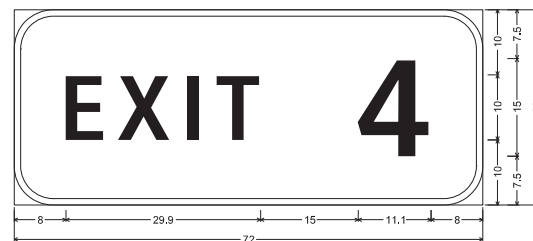
SHEET NO. 1/11 **SIGN NO.** 1



FM 1762 exit 1/2 mile;
 12.0" Radius, 2.0" Border, White on, Green;
 State Highway 490 3;
 "1/2 MILE", ClearviewHwy-5-W-R;
 Table of widths and spaces

26.5	49.0	26.5					
17.1	23.8	11.3	M	I	L	E	17.1

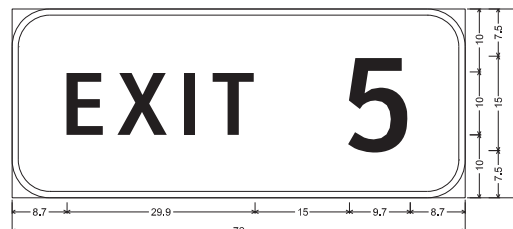
SHEET NO. 11/11 **SIGN NO.** 3



6.0" Radius, 1.0" Border, White on, Green;
 "EXIT", ClearviewHwy-4-W; "4", ClearviewHwy-4-W;
 Table of letter and object lefts

E	X	I	T	4
8.0	16.0	26.6	31.1	52.9

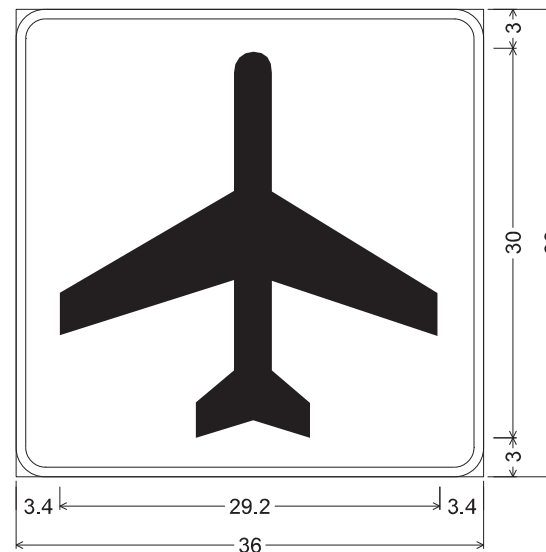
SHEET NO. 3/11 **SIGN NO.** 1
SHEET NO. 4/11 **SIGN NO.** 1



6.0" Radius, 1.0" Border, White on, Green;
 "EXIT", ClearviewHwy-4-W; "5", ClearviewHwy-4-W;
 Table of letter and object lefts

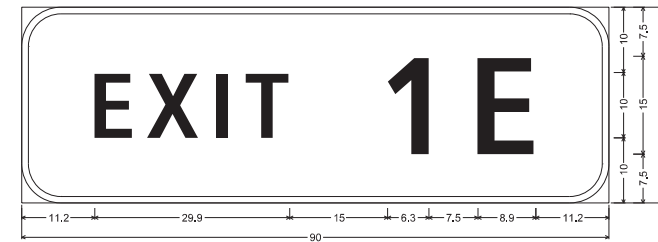
E	X	I	T	5
8.7	16.7	27.4	31.8	53.6

SHEET NO. 5/11 **SIGN NO.** 1



2.3" Radius, 0.8" Border, White on, Green;
 Symbol RA010;

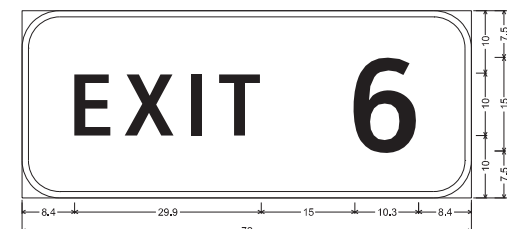
SHEET NO. 1/11 **SIGN NO.** 1
SHEET NO. 11/11 **SIGN NO.** 3



6.0" Radius, 1.0" Border, White on, Green;
 "EXIT", ClearviewHwy-4-W; "1", ClearviewHwy-4-W; "E", ClearviewHwy-4-W;
 Table of letter and object lefts

E	X	I	T	1	E
11.2	19.2	29.8	34.3	56.1	69.9

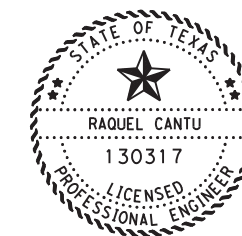
SHEET NO. 2/11 **SIGN NO.** 1



6.0" Radius, 1.0" Border, White on, Green;
 "EXIT", ClearviewHwy-4-W; "6", ClearviewHwy-4-W;
 Table of letter and object lefts

E	X	I	T	6
8.4	16.5	27.1	31.5	53.3

SHEET NO. 6/11 **SIGN NO.** 1



Raquel Cantu 11.05.20

TEXAS DEPARTMENT OF TRANSPORTATION
IH-69C
LARGE SIGN DETAIL SHEETS

© 2020 SHEET 4 OF 5

DN: LSJ	DRAWING ORIGINAL	DATE SEP. 2020	TITLE NO.	STATE TEXAS	FEDERAL PROJECT NO.	SHEET NO. 26
CK DN: GV						
DW: LSJ			STATE DIST. NO. PHARR	COUNTY HIDALGO,	CONTROL NO. 6353	SECTION NO. 00
CK DW: GV						JOB NO. 001

ETC. ETC.

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DATE:
FILE:

SUMMARY OF LARGE SIGNS TO BE REMOVED

PLAN SHEET NO.	SIGN NO.	TYPE OF MOUNT	SIGN TEXT	REMOVE LARGE RSDS ASSMS
1/11	1	OVERHEAD		SIGN ONLY
2/11	1	GROUND MOUNT		SIGN ONLY
3/11	3	GROUND MOUNT		SIGN ONLY
4/11	1	OVERHEAD		SIGN ONLY
5/11	1	OVERHEAD		SIGN ONLY
6/11	1	GROUND MOUNT		SIGN ONLY
6/11	3	OVERHEAD		SIGN ONLY
6/11	2	OVERHEAD		SIGN ONLY
7/11	1	GROUND MOUNT		SIGN ONLY

PLAN SHEET NO.	SIGN NO.	TYPE OF MOUNT	SIGN TEXT	REMOVE LARGE RSDS ASSMS
8/11	1	GROUND MOUNT		SIGN ONLY
9/11	1	OVERHEAD		SIGN ONLY
10/11	1	GROUND MOUNT		SIGN ONLY
10/11	2	GROUND MOUNT		SIGN ONLY
11/11	1	GROUND MOUNT		SIGN ONLY
11/11	2	GROUND MOUNT		SIGN ONLY
11/11	3	GROUND MOUNT		✕

IH-69C SHEET 1 OF 1

SUMMARY OF LARGE SIGNS TO BE REMOVED

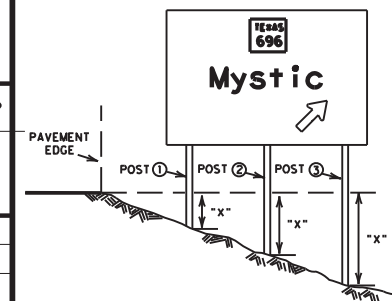
© 2020			
		REVISIONS	
DL-1 - CBR	11-93	1-04	
CL-1 - GV	8-95	9-08	
DL-1 - CBR	5-01		
CL-1 - GV			
CONT	SECT	JOB	HIGHWAY
6353	00	001	IH-2, ETC.
DIST	COUNTY	SHEET NO.	
PHR	HIDALGO, ETC.	28	

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DATE: December 15, 2011
 FILE: OSCAR.ctb \engdata\oscar\mi.sc2011\us281\cibo\o-fm490\us281\signsum.dgn

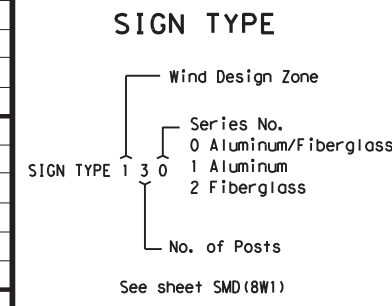
SUMMARY OF LARGE SIGNS

LAYOUT SHEET NO.	SIGN NO.	SIGN BACK-GROUND COLOR	SIGN TEXT	SIGN DIMENSIONS	PLAQUES, & OTHER ATTACHMENTS		BACKGROUND SUBSTRATE (SQ FT)		TYPE OF MOUNT	"X" DIMENSION @			GALVANIZED STRUCTURAL STEEL				DRILLED SHAFT				RIP RAP CY	
					DIRECT APPLY	* ALUMINUM (TYPE A)	GROUND MOUNT (TYPE G)	OVERHEAD (TYPE O)		post ①	post ②	post ③	SIZE	post ①	post ②	post ③	TOTAL WEIGHT LBS.	NON-REINF 12"φ	LINEAR FEET REINFORCED			
1/11	1	GREEN		3' x 3' 6' x 2.5' 3.75' x 3' 18' x 11'		9		15														
			(N. B.)																			
2/11	1	GREEN		7.5' x 2.5' 4.75' x 3' 16.5' x 10'		14.25		18.75														
			(S. B.)																			
3/11	1	GREEN		6' x 2.5' 18' x 8.5'				15														
			(N. B.)																			
4/11	1	GREEN		6' x 2.5' 18' x 8.5' 18' x 2.75'				15														
			(N. B.)			49.50																
5/11	1	GREEN		6' x 2.5' 24' x 6'				15														
			(S. B.)					144														
6/11	1	GREEN		6' x 2.5' 3.4' x 3' 17' x 9.5'		10.20		15														
			(S. B.)					161.50														
6/11	3	GREEN		6' x 2.5' 14' x 9' 14' x 2.75'				15														
			(N. B.)			38.50																
6/11	2	GREEN		6' x 2.5' 4.75' x 3' 20.5' x 10'		14.25		15														
			(N. B.)					205														
7/11	1	GREEN		6' x 2.5' 4.75' x 3' 18.5' x 15.5'		14.25		15														
			(S. B.)					286.75														



⊖ The "x" dimension is the elevation difference at the post between the ground and the edge of pavement or top of curb.
 Sign supports shall be located as shown on the plans, except that the Engineer may shift the sign supports, within design guidelines, where necessary to secure a more desirable location or to avoid conflict with utilities. Unless otherwise shown on the plans, the Contractor shall stake and the Engineer will verify all sign support locations.
 The post lengths listed here are approximations. The corrected post lengths will be furnished by the Contractor after the stud posts are placed.
 Tower heights shall be verified with the Engineer before fabrication.

* This column is for aluminum Type A and not direct apply. Direct apply is subsidiary to the sign.



SUMMARY OF LARGE SIGNS
SOLS IH-69C

© TxDOT 2020

DN: CBR	REVISIONS
CV: 11-93	1-04
CBR: 8-95	9-08
CV: 5-01	

SHEET 1 OF 2

CONT	SECT	JOB	HIGHWAY
6353	00	001	IH 2, ETC.
DIST	COUNTY	SHEET NO.	
21	HIDALGO, ETC.	29	

PAGE TOTALS 9 830 901

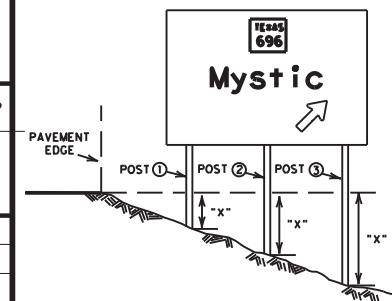
PAGE TOTALS 1,128

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DATE: December 15, 2011
 FILE: OSCAR at \engdot\oscar\mi\sc2011\us281\c:\bo\o-fm490\us281\signsum.dgn

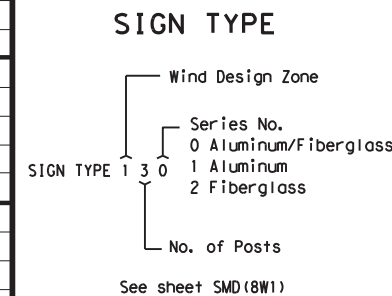
SUMMARY OF LARGE SIGNS

LAYOUT SHEET NO.	SIGN NO.	SIGN BACK-GROUND COLOR	SIGN TEXT	SIGN DIMENSIONS	PLAQUES, & OTHER ATTACHMENTS		BACKGROUND SUBSTRATE (SQ FT)		TYPE OF MOUNT	"X" DIMENSION @			GALVANIZED STRUCTURAL STEEL				DRILLED SHAFT				RIP RAP CY
					DIRECT APPLY	* ALUMINUM (TYPE A)	GROUND MOUNT (TYPE G)	OVERHEAD (TYPE O)		post ①	post ②	post ③	SIZE	LINEAR FEET post ①	post ②	post ③	TOTAL WEIGHT LBS.	NON-REINF 12"φ	LINEAR FEET REINFORCED 24"φ	30"φ	
8/11	1	GREEN		6' x 2.5' 4.75' x 3' 18.5' x 14'		14.25	15	259													
			(S. B.)																		
9/11	1	GREEN		7' x 2.5' 16.5' x 9.5'			15	156.75					S4X7.7	9.5	9.5	9.5	219.45				
			(N. B.)																		
10/11	1	GREEN		7' x 2.5' 4.75' x 3' 8' x 8'		14.25	15	64													
			(N. B.)																		
10/11	2	GREEN		5' x 7.5'				37.50													
			(N. B.)																		
11/11	1	GREEN		7' x 2.5' 4.10' x 3' 7.5' x 8'		12.30	15	60													
			(S. B.)																		
11/11	2	GREEN		10.5' x 8'				126													
			(S. B.)																		
11/11	3	GREEN		3' x 3' 7' x 2.5' 4.1' x 3' 8.5' x 7.5'		9	15	63.75	221	1.0	0.0		W6 x 9	15.5	14.5	336.4	12.00			1.6	
			(S. B.)																		



⊖ The "x" dimension is the elevation difference at the post between the ground and the edge of pavement or top of curb.
 Sign supports shall be located as shown on the plans, except that the Engineer may shift the sign supports, within design guidelines, where necessary to secure a more desirable location or to avoid conflict with utilities. Unless otherwise shown on the plans, the Contractor shall stake and the Engineer will verify all sign support locations.
 The post lengths listed here are approximations. The corrected post lengths will be furnished by the Contractor after the stud posts are placed.
 Tower heights shall be verified with the Engineer before fabrication.

* This column is for aluminum Type A and not direct apply. Direct apply is subsidiary to the sign.



SUMMARY OF LARGE SIGNS SOLS IH-69C

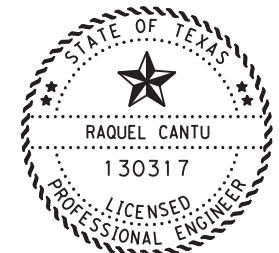
© TxDOT 2020			
DN: CBR	11-93	1-04	REVISIONS
CK: GV	8-95	9-08	
DN: CBR	5-01		
CK: GV			
SHEET 2 OF 2			
CONT	SECT	JOB	HIGHWAY
6353	00	001	IH 2, ETC.
DIST	COUNTY	SHEET NO.	
21	HIDALGO, ETC.	30	

PAGE TOTALS	9	670.25	175.75
GRAND TOTAL	18	1,500.25	1,076.75

PAGE TOTALS	555.85	12.00	1.6
GRAND TOTAL	1,683.85	12.00	1.6





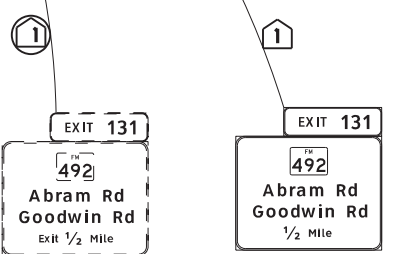
SCALE: N. T. S.



Raquel Cantu 11.05.20

LEGEND

-  LARGE SIGN TO BE REMOVED
-  LARGE SIGN TO BE INSTALLED
-  SMALL SIGN TO BE REMOVED
-  SMALL SIGN TO BE INSTALLED
-  SIGN TO REMAIN IN PLACE
-  LARGE SIGN TO BE RELOCATED



TEXAS DEPARTMENT OF TRANSPORTATION

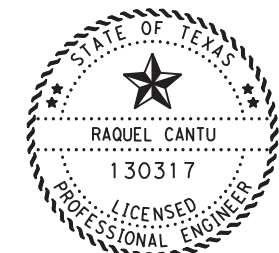
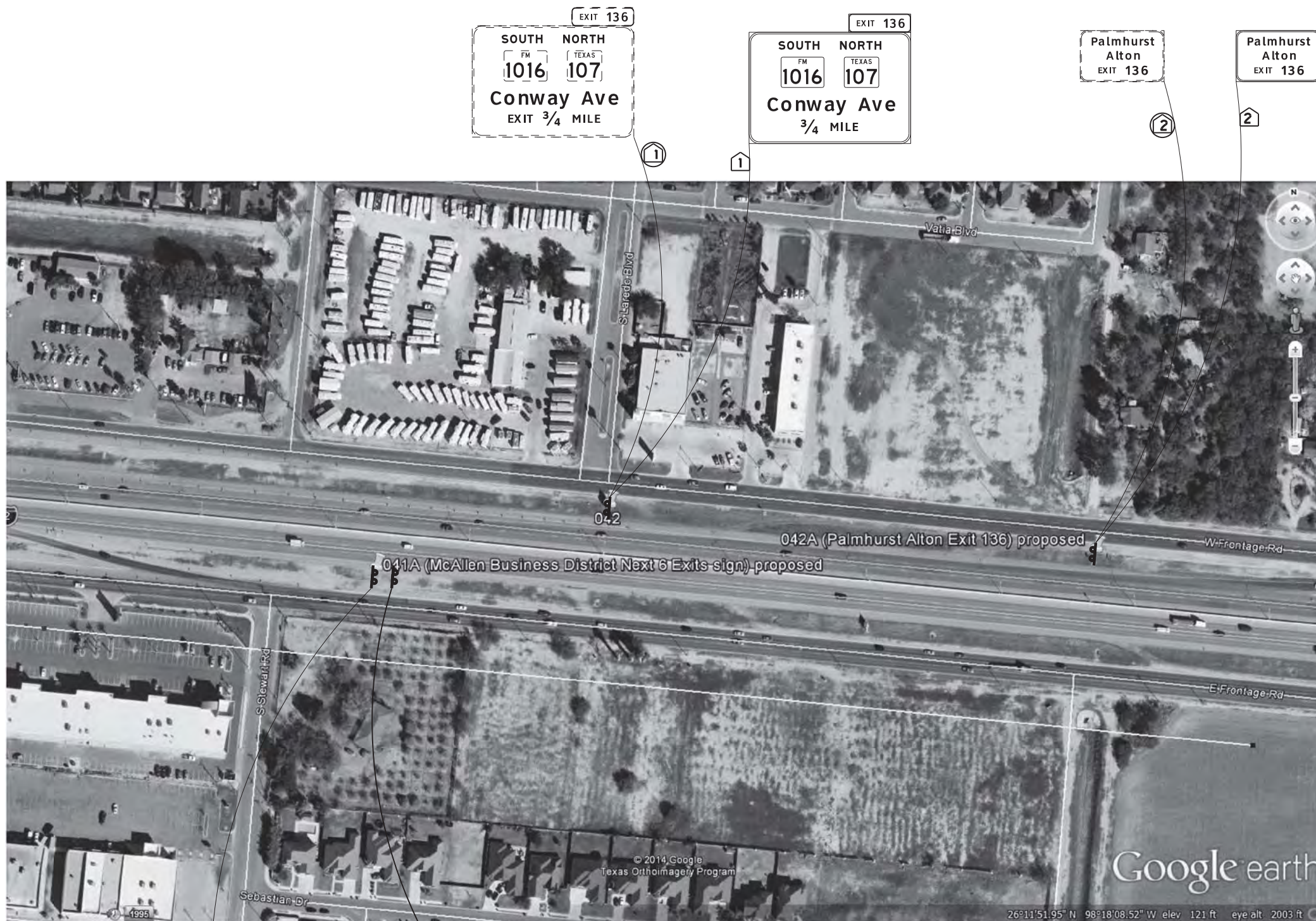
IH-2

LARGE SIGN LAYOUTS

© 2020 SHEET 1 OF 54

DRW: LS	DRAWING	DATE	FED. PROJ. NO.	STATE	FEDERAL PROJECT NO.	SHEET NO.
CK DRW: GV	ORIGINAL	SEP. 2020		TEXAS		31
DRW: LS			STATE DIST. NO.	COUNTY	CONTROL NO.	SECTION NO.
CK DRW: GV			PHARR	HIDALGO	6353	00 001
						JOB NO. HIGHWAY NO.
						001 IH-2

ETC. ETC.



Raquel Cantu 11.05.20

LEGEND

- LARGE SIGN TO BE REMOVED
- LARGE SIGN TO BE INSTALLED
- SMALL SIGN TO BE REMOVED
- SMALL SIGN TO BE INSTALLED
- SIGN TO REMAIN IN PLACE
- LARGE SIGN TO BE RELOCATED

③
**McAllen
 Business District
 NEXT 6 EXITS**

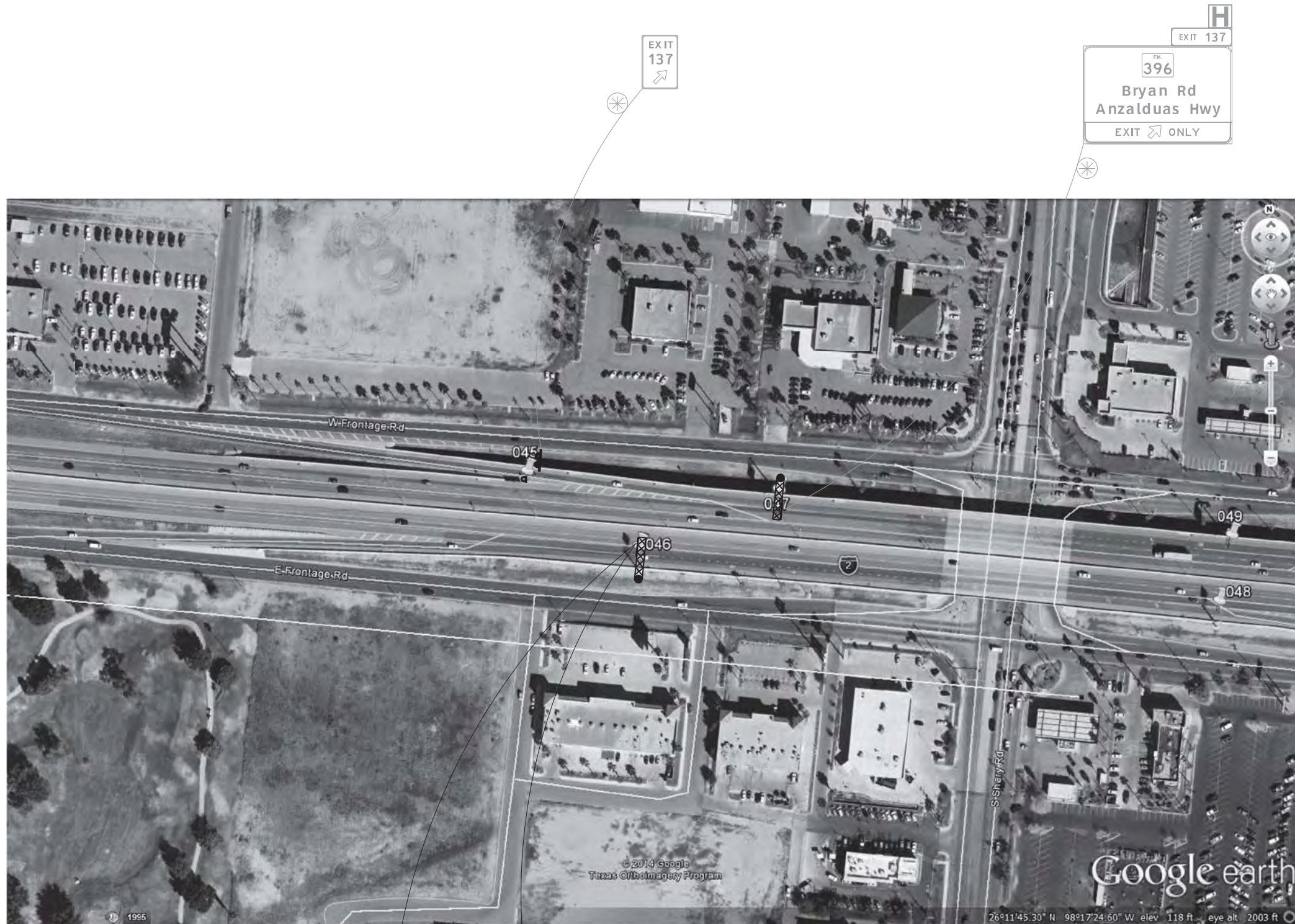
③
**McAllen
 NEXT 6 EXITS**

TEXAS DEPARTMENT OF TRANSPORTATION
IH-2
LARGE SIGN LAYOUTS

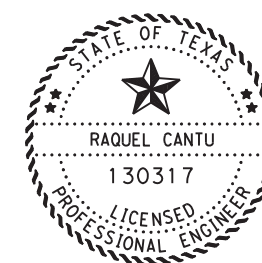
© 2020 SHEET 2 OF 54

DR: L.S.J.	DRAWING DATE	REV. NO.	STATE	FEDERAL PROJECT NO.	SHEET NO.
CR DR: GV	ORIGINAL OCT. 2020		TEXAS		32
DR: L.S.J.		STATE DIST. NO.	COUNTY	CONTROL NO.	SECTION NO.
CR DR: GV		PHARR	HIDALGO,	6353	00/00

ETC. ETC.



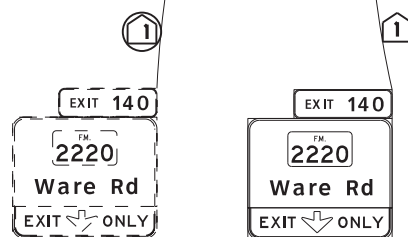
N
Z
SCALE: N. T. S.



Raquel Cantu 11.05.20

LEGEND

- LARGE SIGN TO BE REMOVED
- LARGE SIGN TO BE INSTALLED
- SMALL SIGN TO BE REMOVED
- SMALL SIGN TO BE INSTALLED
- SIGN TO REMAIN IN PLACE
- LARGE SIGN TO BE RELOCATED



TEXAS DEPARTMENT OF TRANSPORTATION
IH-2
LARGE SIGN LAYOUTS

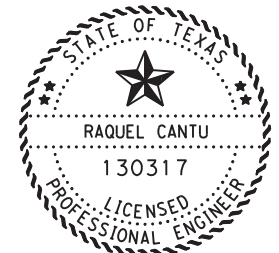
© 2020 SHEET 3 OF 54

DRW: L.S.J.	DRAWING DATE: ORIGINAL OCT. 2020	FED. PROJ. NO.	STATE: TEXAS	FEDERAL PROJECT NO.	SHEET NO.: 33
CR. DRW: G.V.		STATE DIST. NO.: PHARR	COUNTY: HIDALGO	CONTROL NO.: 6353	SECTION NO.: 0000
DRW: L.S.J.				JOB NO.	HIGHWAY NO.
CR. DRW: G.V.					

ETC. ETC.



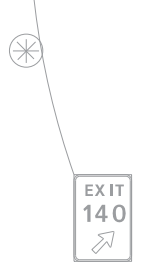
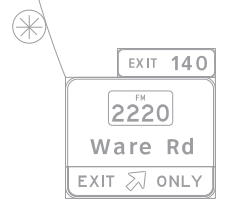
N
Z
SCALE: N. T. S.



Raquel Cantu 11.05.20

LEGEND

- LARGE SIGN TO BE REMOVED
- LARGE SIGN TO BE INSTALLED
- SMALL SIGN TO BE REMOVED
- SMALL SIGN TO BE INSTALLED
- SIGN TO REMAIN IN PLACE
- LARGE SIGN TO BE RELOCATED



TEXAS DEPARTMENT OF TRANSPORTATION
IH-2
LARGE SIGN LAYOUTS

© 2020 SHEET 4 OF 54

DRW: L.S.J.	DRAWING DATE: ORIGINAL OCT. 2020	FED. PROJ. NO.	STATE: TEXAS	FEDERAL PROJECT NO.	SHEET NO.: 34
CR. DRW: G.V.		STATE DIST. NO.: PHARR	COUNTY: HIDALGO	CONTROL NO.: 6353	SECTION NO.: 0000
DRW: L.S.J.				JOB NO.: 00	HIGHWAY NO.: IH-2
CR. DRW: G.V.					ETC.

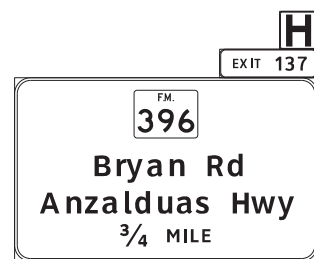
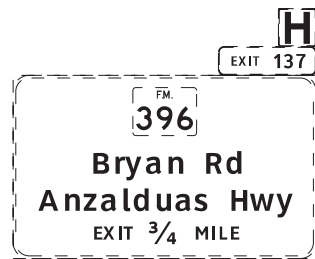
OMIT

 **TEXAS DEPARTMENT OF TRANSPORTATION**
IH-2
LARGE SIGN LAYOUTS

© 2020

DRW	LSJ	DRAWING	DATE	FED. NO. DIV. NO.	STATE	FEDERAL PROJECT NO.			SHEET NO.
DRW	LSJ	ORIGINAL	SEP. 2020		TEXAS				35
DRW	LSJ	STATE DIST. NO.	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	HIGHWAY NO.		
DRW	LSJ	PHARR	HIDALGO,	6353	00	00	IH-2,		

ETC. ETC.



LEGEND

- LARGE SIGN TO BE REMOVED
- LARGE SIGN TO BE INSTALLED
- SMALL SIGN TO BE REMOVED
- SMALL SIGN TO BE INSTALLED
- SIGN TO REMAIN IN PLACE
- LARGE SIGN TO BE RELOCATED

Raquel Cantu 11.05.20

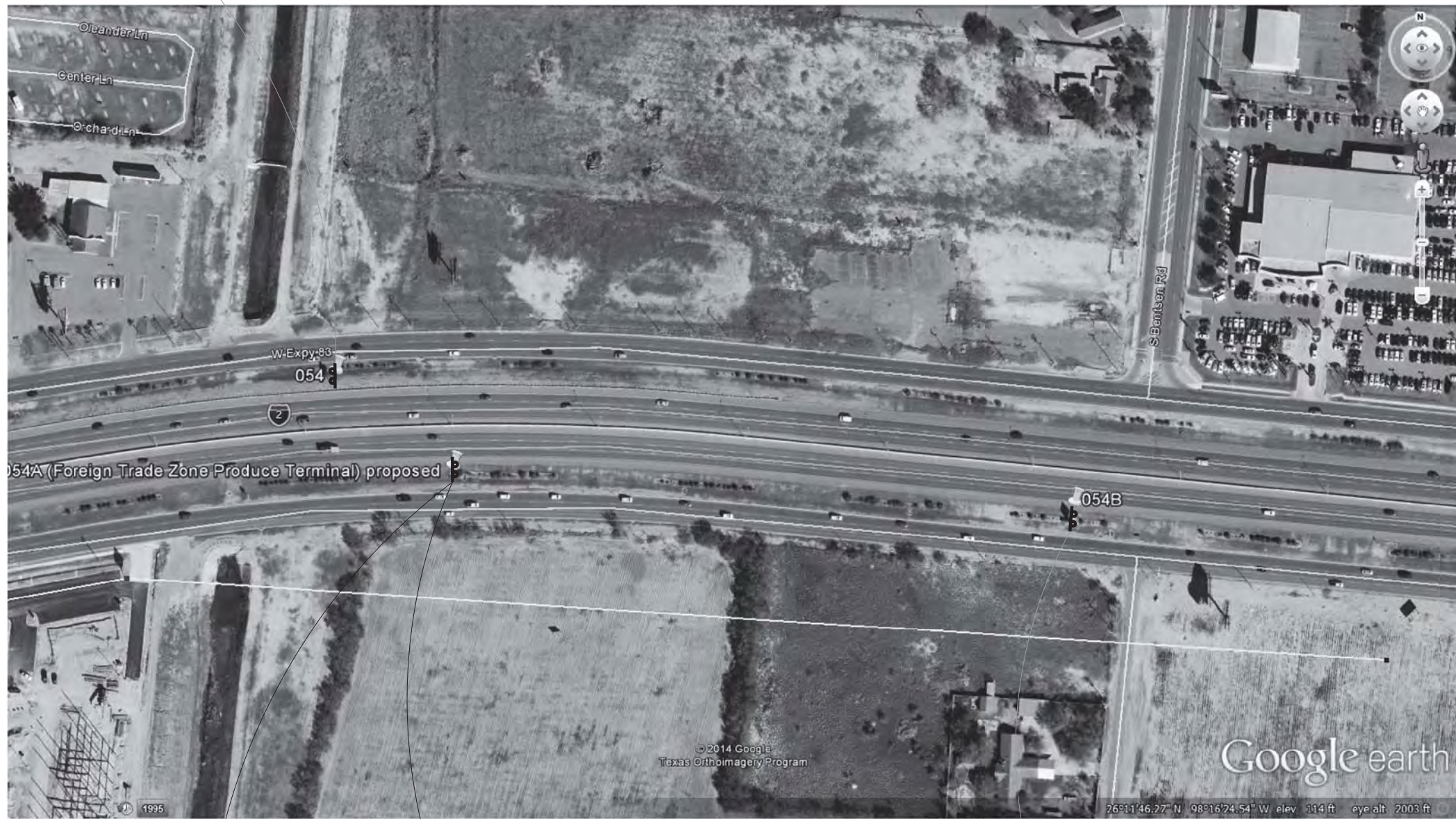
TEXAS DEPARTMENT OF TRANSPORTATION
IH-2
LARGE SIGN LAYOUTS

© 2020 SHEET 5 OF 54

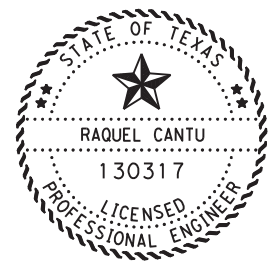
DATE	DRAWING	DATE	FED. PROJ. NO.	STATE	FEDERAL PROJECT NO.	SHEET NO.
09/2020	ORIGINAL	SEP. 2020		TEXAS		36
DATE	DESIGNER	STATE DIST. NO.	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.
09/2020	LSJ	PHARR	HIDALGO	6353	00 00	IH-2

ETC. ETC.

EXIT 137
Anzalduas
Intl Bridge
Reynosa
Monterrey
NEXT EXIT



N
Z
SCALE: N. T. S.



Raquel Cantu 11.05.20

LEGEND

- LARGE SIGN TO BE REMOVED
- LARGE SIGN TO BE INSTALLED
- SMALL SIGN TO BE REMOVED
- SMALL SIGN TO BE INSTALLED
- SIGN TO REMAIN IN PLACE
- LARGE SIGN TO BE RELOCATED

①
EXIT 141
SPUR 115
23rd St
EXIT 1 MILE

①
EXIT 141
SPUR 115
23rd St
1 MILE

①
Hidalgo
State Farm
Arena
Intl Bridge
NEXT 2 EXITS

TEXAS DEPARTMENT OF TRANSPORTATION
IH-2
LARGE SIGN LAYOUTS

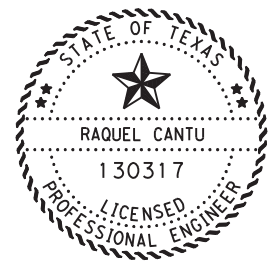
© 2020 SHEET 6 OF 54

DR: L.S.J.	DRAWING: ORIGINAL	DATE: SEP. 2020	FED. PROJ. NO.:	STATE: TEXAS	FEDERAL PROJECT NO.:	SHEET NO.:
CK: DR: G.V.			STATE DIST. NO.:	COUNTY: PHARR	CONTROL NO.:	SECTION NO.:
DR: L.S.J.				HIDALGO	6353	0000
CK: DR: G.V.						

JOB NO. IH-2
HIGHWAY NO. ETC.



SCALE: N. T. S.



Raquel Cantu 11.05.20

LEGEND

- LARGE SIGN TO BE REMOVED
- LARGE SIGN TO BE INSTALLED
- SMALL SIGN TO BE REMOVED
- SMALL SIGN TO BE INSTALLED
- SIGN TO REMAIN IN PLACE
- LARGE SIGN TO BE RELOCATED



TEXAS DEPARTMENT OF TRANSPORTATION

IH-2

LARGE SIGN LAYOUTS

© 2020 SHEET 7 OF 54

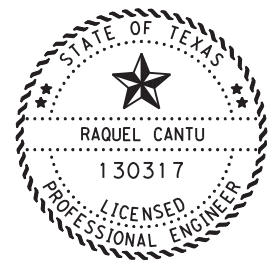
DRW: L.S.J	DRAWING: ORIGINAL	DATE: SEP. 2020	FED. PROJ. NO.:	STATE: TEXAS	FEDERAL PROJECT NO.:	SHEET NO.:
DRW: L.S.J			STATE DIST. NO.:	COUNTY:	CONTROL NO.:	SECTION NO.:
DRW: G.V.			PHARR	HIDALGO	6353	00 00
DRW: G.V.						38

JOB NO. IH-2, ETC.

*ALL EXISTING SIGNS
TO REMAIN IN PLACE









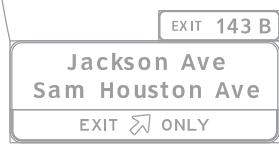
SCALE: N. T. S.



Raquel Cantu 11.05.20

LEGEND

-  LARGE SIGN TO BE REMOVED
-  LARGE SIGN TO BE INSTALLED
-  SMALL SIGN TO BE REMOVED
-  SMALL SIGN TO BE INSTALLED
-  SIGN TO REMAIN IN PLACE
-  LARGE SIGN TO BE RELOCATED



TEXAS DEPARTMENT OF TRANSPORTATION

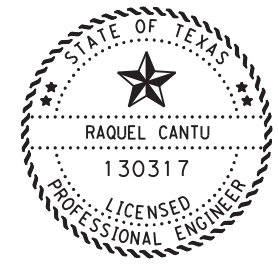
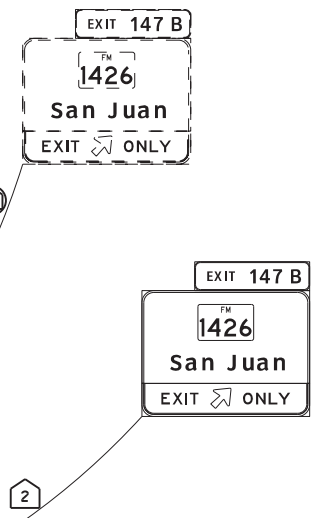
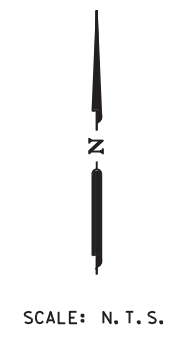
IH-2

LARGE SIGN LAYOUTS

© 2020 SHEET 8 OF 54

DR: L.S.J	DRAWING: ORIGINAL	DATE: SEP. 2020	FED. PROJ. NO.:	STATE: TEXAS	FEDERAL PROJECT NO.:	SHEET NO.:
CK: DR: G.V						39
DR: L.S.J			STATE DIST. NO.:	COUNTY:	CONTROL NO.:	SECTION NO.:
CK: DR: G.V			PHARR	HIDALGO	6353	00 00

ETC. IH-2. ETC.



Raquel Cantu 11.05.20

LEGEND

- LARGE SIGN TO BE REMOVED
- LARGE SIGN TO BE INSTALLED
- SMALL SIGN TO BE REMOVED
- SMALL SIGN TO BE INSTALLED
- SIGN TO REMAIN IN PLACE
- LARGE SIGN TO BE RELOCATED



TEXAS DEPARTMENT OF TRANSPORTATION

IH-2

LARGE SIGN LAYOUTS

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DR: L.S.J.	DRAWING: ORIGINAL	DATE: SEP. 2020	FED. PROJ. NO.:	STATE: TEXAS	FEDERAL PROJECT NO.:	SHEET NO.: 40
DR: L.S.J.	STATE DIST. NO.: PHARR	COUNTY: HIDALGO	CONTROL NO.: 6353	SECTION NO.: 00	JOB NO.: 00	ROUTE NO.: IH-2

ETC. ETC.

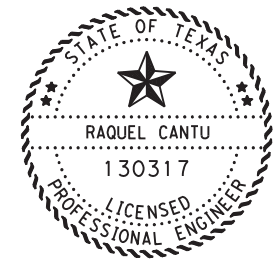


N
Z
SCALE: N. T. S.

EXIT 150 A
FM 907
Alamo Rd
EXIT ONLY

EXIT 150 A
FM 907
Alamo Rd
EXIT ONLY

EXIT 152
1423
Val Verde Rd
EXIT 1/2 MILE



Raquel Cantu 11.05.20

LEGEND

- LARGE SIGN TO BE REMOVED
- LARGE SIGN TO BE INSTALLED
- SMALL SIGN TO BE REMOVED
- SMALL SIGN TO BE INSTALLED
- SIGN TO REMAIN IN PLACE
- LARGE SIGN TO BE RELOCATED

TEXAS DEPARTMENT OF TRANSPORTATION
IH-2
LARGE SIGN LAYOUTS

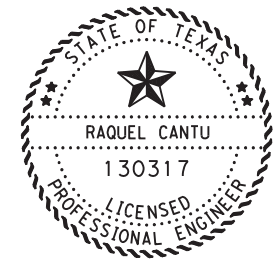
© 2020 SHEET 11 OF 54

DR: L.S.J.	DRAWING: ORIGINAL	DATE: SEP. 2020	FED. PROJ. NO.:	STATE: TEXAS	FEDERAL PROJECT NO.:	SHEET NO.:
CK: DR: G.V.						42
DR: L.S.J.			STATE DIST. NO.:	COUNTY:	CONTROL NO.:	SECTION NO.:
CK: DR: G.V.			PHARR	HIDALGO	6353	00 00

ETC. IH-2, ETC.



N
Z
SCALE: N. T. S.



Raquel Cantu 11.05.20

LEGEND

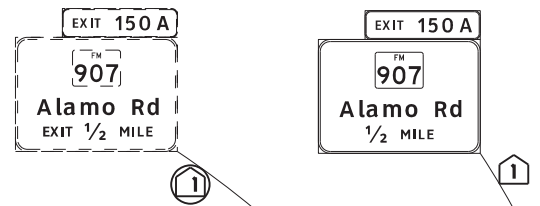
- LARGE SIGN TO BE REMOVED
- LARGE SIGN TO BE INSTALLED
- SMALL SIGN TO BE REMOVED
- SMALL SIGN TO BE INSTALLED
- SIGN TO REMAIN IN PLACE
- LARGE SIGN TO BE RELOCATED

EXIT 150 B
Tower Rd
EXIT 1/2 MILE

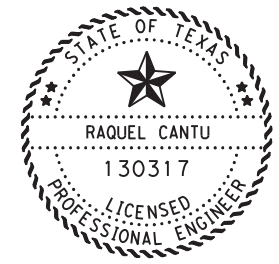
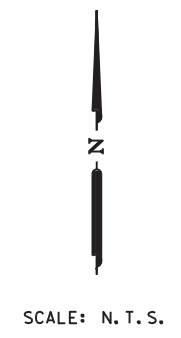
TEXAS DEPARTMENT OF TRANSPORTATION
IH-2
LARGE SIGN LAYOUTS

© 2020 SHEET 10 OF 54

DR: L.S.J	DRAWING: ORIGINAL	DATE: SEP. 2020	FED. PROJ. NO.	STATE: TEXAS	FEDERAL PROJECT NO.	SHEET NO.: 41
CK: DR: G.V			STATE DIST. NO.: PHARR	COUNTY: HIDALGO	CONTROL NO.: 6353	SECTION NO.: 0000
DR: L.S.J					JOB NO.: 001	HIGHWAY NO.: IH-2
CK: DR: G.V						ETC.



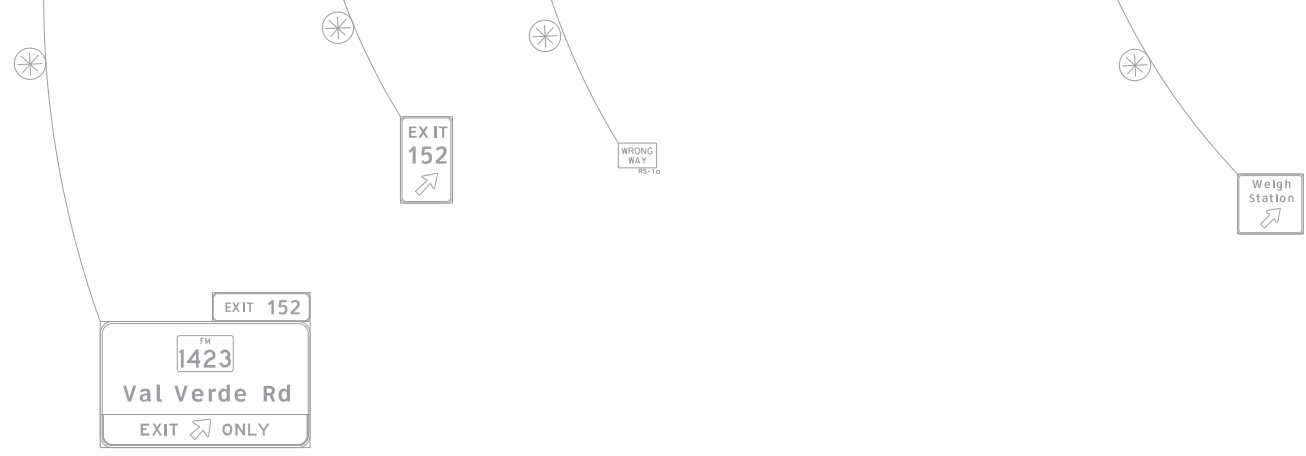
ALL TRUCKS
MUST ENTER
WEIGH STATION
WHEN
FLASHING



Raquel Cantu 11.05.20

LEGEND

- LARGE SIGN TO BE REMOVED
- LARGE SIGN TO BE INSTALLED
- SMALL SIGN TO BE REMOVED
- SMALL SIGN TO BE INSTALLED
- SIGN TO REMAIN IN PLACE
- LARGE SIGN TO BE RELOCATED
- SMALL SIGN TO BE RELOCATED



TEXAS DEPARTMENT OF TRANSPORTATION
IH-2
LARGE SIGN LAYOUTS

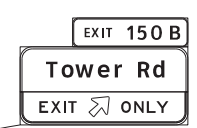
© 2020 SHEET 12 OF 54

DR: L.S.J	DRAWING	DATE	FED. PROJ. NO.	STATE	FEDERAL PROJECT NO.	SHEET NO.
CK: DR: G.V	ORIGINAL	SEP. 2020		TEXAS		43
DR: L.S.J			STATE DIST. NO.	COUNTY	CONTROL NO.	SECTION NO.
CK: DR: G.V			PHARR	HIDALGO	6353	00 00

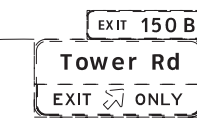
ETC. IH-2, ETC.



SCALE: N. T. S.



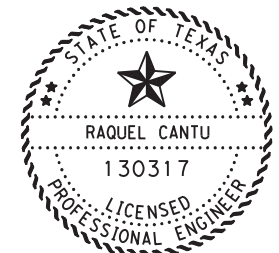
①



①



⊗



Raquel Cantu 11.05.20

LEGEND

- ⊕ LARGE SIGN TO BE REMOVED
- ⬠ LARGE SIGN TO BE INSTALLED
- ⊖ SMALL SIGN TO BE REMOVED
- SMALL SIGN TO BE INSTALLED
- ⊗ SIGN TO REMAIN IN PLACE
- ★ LARGE SIGN TO BE RELOCATED



TEXAS DEPARTMENT OF TRANSPORTATION

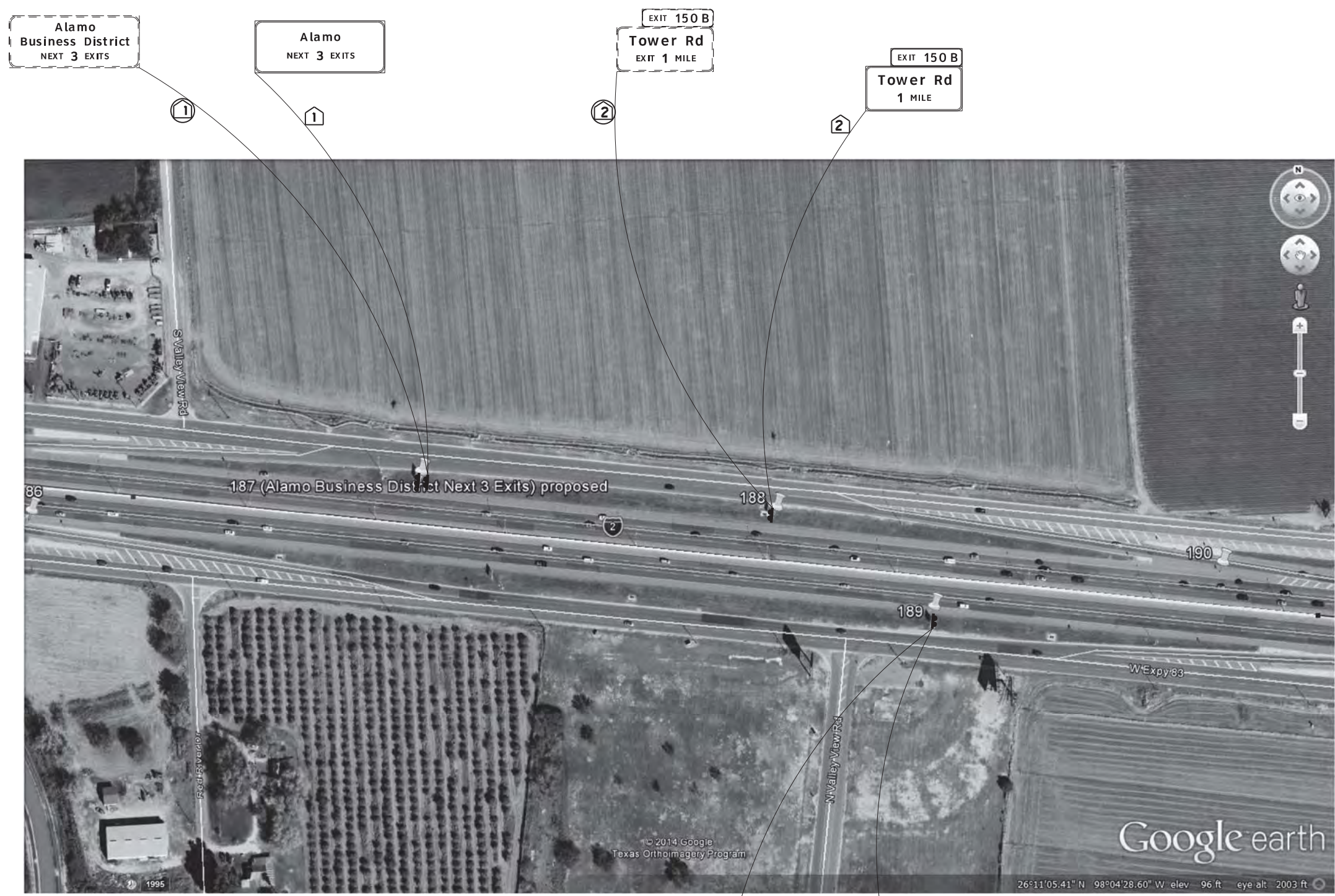
IH-2

LARGE SIGN LAYOUTS

© 2020 SHEET 13 OF 54

DR: L.S.J	DRAWING: ORIGINAL	DATE: SEP. 2020	FED. PROJ. NO.:	STATE: TEXAS	FEDERAL PROJECT NO.:	SHEET NO.:
CK: DR: G.V						44
DR: L.S.J			STATE DIST. NO.:	COUNTY:	CONTROL NO.:	SECTION NO.:
CK: DR: G.V			PHARR	HIDALGO	6353	00 00

ETC. IH-2, ETC.

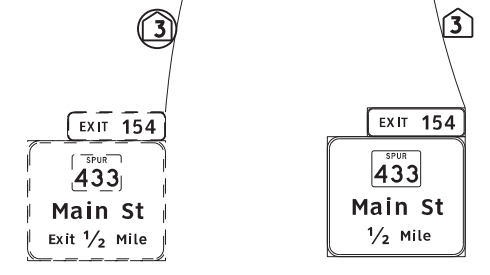


N
Z
SCALE: N. T. S.

STATE OF TEXAS
 RAQUEL CANTU
 130317
 LICENSED PROFESSIONAL ENGINEER
Raquel Cantu
 11.06.20

LEGEND

- LARGE SIGN TO BE REMOVED
- LARGE SIGN TO BE INSTALLED
- SMALL SIGN TO BE REMOVED
- SMALL SIGN TO BE INSTALLED
- SIGN TO REMAIN IN PLACE
- LARGE SIGN TO BE RELOCATED



TEXAS DEPARTMENT OF TRANSPORTATION
IH-2
LARGE SIGN LAYOUTS

© 2020 SHEET 14 OF 54

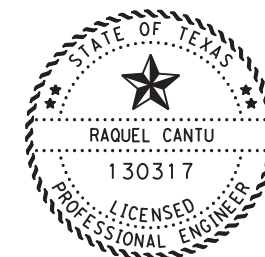
DR: L.S.J	DRAWING: ORIGINAL	DATE: SEP. 2020	FED. PROJ. NO.	STATE: TEXAS	FEDERAL PROJECT NO.	SHEET NO.: 45
CK: DV: GV	DR: L.S.J	CK: DV: GV	STATE DIST. NO.: PHARR	COUNTY: HIDALGO	CONTROL NO.: 6353	SECTION NO.: 0000
			JOB NO.: IH-2		HIGHWAY NO.: ETC.	

EXIT 152
 FM 1423
 Val Verde Rd
 EXIT ONLY

EXIT 152
 FM 1423
 Val Verde Rd
 EXIT ONLY



SCALE: N. T. S.



Raquel Cantu

11.06.20

EXIT 154
 SPUR 433
 Main St
 EXIT ONLY

EXIT 154

EXIT 155 A
 FM 493
 Salinas Blvd
 EXIT 3/4 MILE

LEGEND

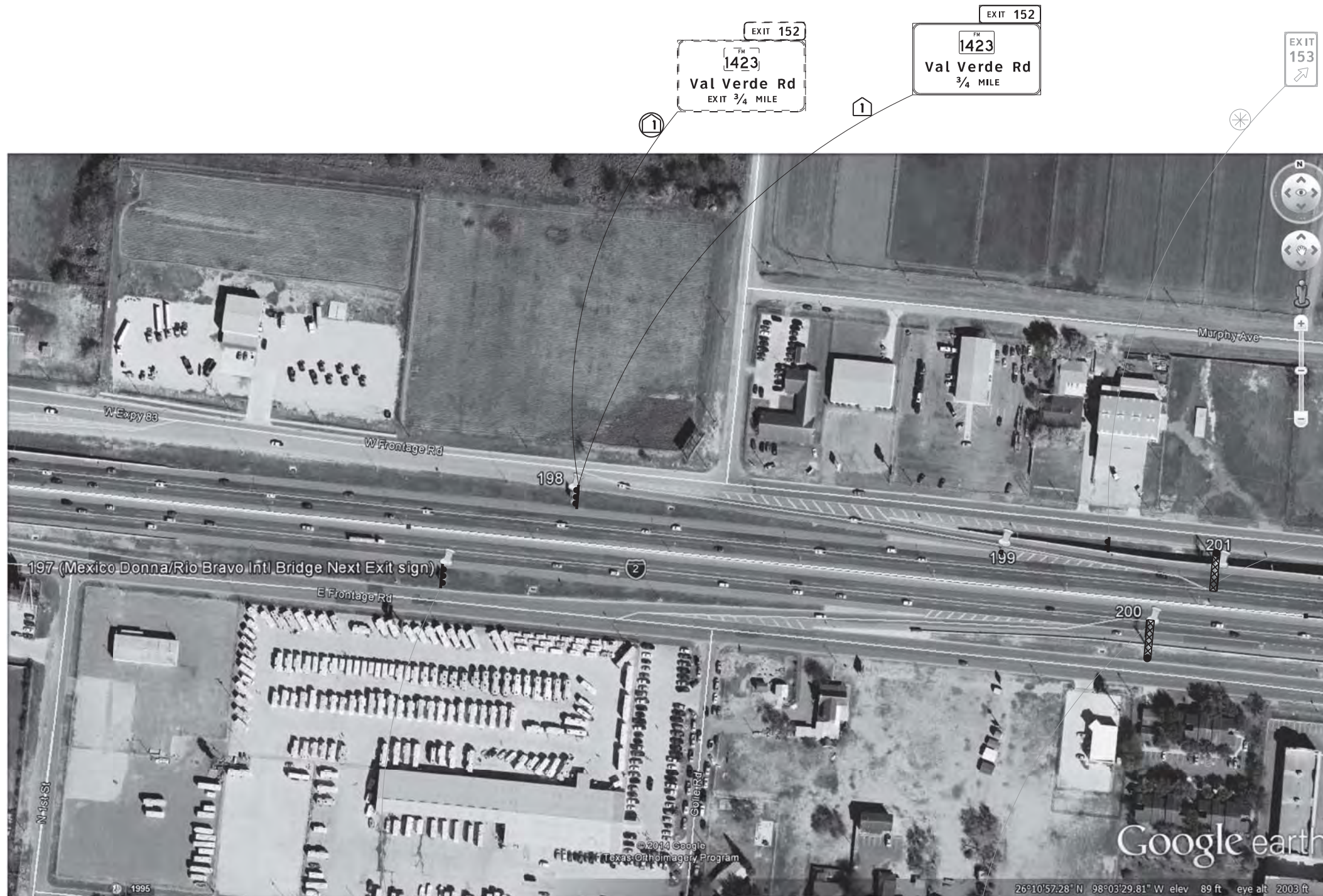
- LARGE SIGN TO BE REMOVED
- LARGE SIGN TO BE INSTALLED
- SMALL SIGN TO BE REMOVED
- SMALL SIGN TO BE INSTALLED
- SIGN TO REMAIN IN PLACE
- LARGE SIGN TO BE RELOCATED

TEXAS DEPARTMENT OF TRANSPORTATION
IH-2
LARGE SIGN LAYOUTS

© 2020 SHEET 15 OF 54

DR: L.S.J.	DRAWING: ORIGINAL	DATE: SEP. 2020	FED. PROJ. NO.:	STATE: TEXAS	FEDERAL PROJECT NO.:	SHEET NO.:
CK: DR: GV						46
DR: L.S.J.			STATE DIST. NO.:	COUNTY:	CONTROL NO.:	SECTION NO.:
CK: DR: GV			PHARR	HIDALGO	6353	00 00

ETC. IH-2, ETC.



N
Z
SCALE: N. T. S.

EXIT 153
Hutto Rd
EXIT ONLY

STATE OF TEXAS
RAQUEL CANTU
130317
LICENSED PROFESSIONAL ENGINEER
Raquel Cantu

11.06.20

LEGEND

- LARGE SIGN TO BE REMOVED
- LARGE SIGN TO BE INSTALLED
- SMALL SIGN TO BE REMOVED
- SMALL SIGN TO BE INSTALLED
- SIGN TO REMAIN IN PLACE
- LARGE SIGN TO BE RELOCATED

EXIT 155 A
Mexico
Donna/Rio Bravo
Intl Bridge
NEXT EXIT

EXIT 155 A
493
Salinas Blvd
EXIT ONLY

TEXAS DEPARTMENT OF TRANSPORTATION
IH-2
LARGE SIGN LAYOUTS

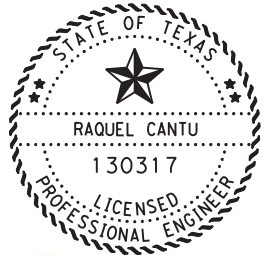
© 2020 SHEET 16 OF 54

DR: L.S.J	DRAWING	DATE	TITLE NO. DIV. NO.	STATE	FEDERAL PROJECT NO.	SHEET NO.
CK: DV: GV	ORIGINAL	SEP. 2020		TEXAS		47
DR: L.S.J			STATE DIST. NO.	COUNTY	CONTROL NO.	SECTION NO.
CK: DV: GV			PHARR	HIDALGO	6353	00 00

ETC. IH-2. ETC.



N
Z
SCALE: N. T. S.

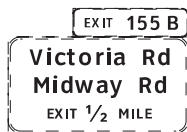


Raquel Cantu

11.06.20

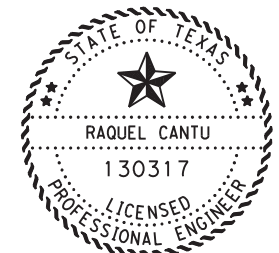
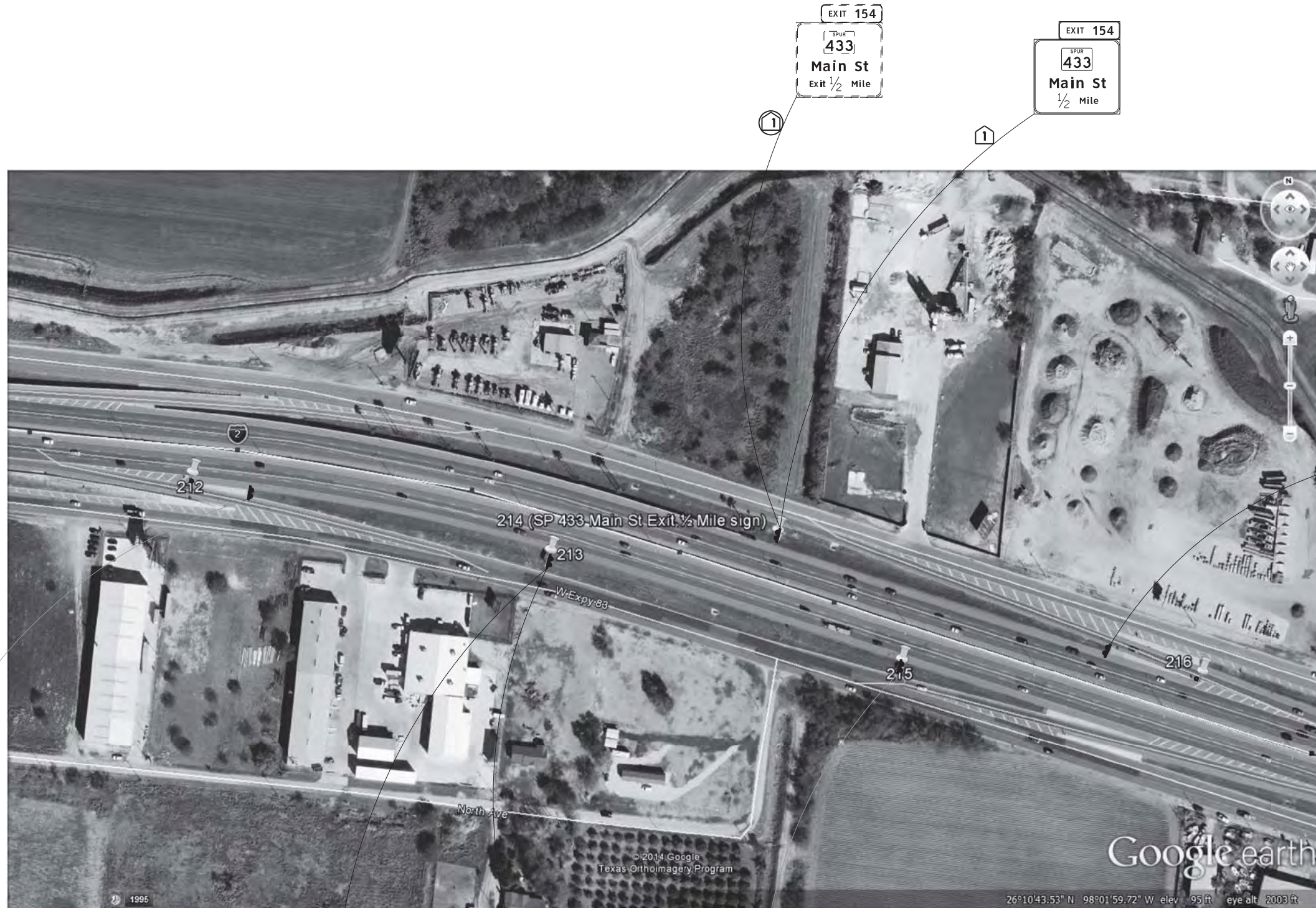
LEGEND

- LARGE SIGN TO BE REMOVED
- LARGE SIGN TO BE INSTALLED
- SMALL SIGN TO BE REMOVED
- SMALL SIGN TO BE INSTALLED
- SIGN TO REMAIN IN PLACE
- LARGE SIGN TO BE RELOCATED



TEXAS DEPARTMENT OF TRANSPORTATION
IH-2
LARGE SIGN LAYOUTS

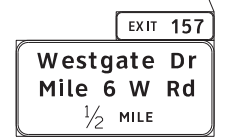
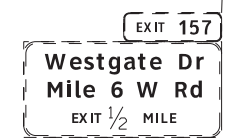
© 2020		SHEET 17 OF 54					
DR: L.S.J	DRAWING	DATE	FED. NO.	STATE	FEDERAL PROJECT NO.	SHEET NO.	
CK: DR: GV	ORIGINAL	SEP. 2020		TEXAS		48	
DR: L.S.J			STATE DIST. NO.	COUNTY	CONTROL NO.	SECTION NO.	
CK: DR: GV			PHARR	HIDALGO	6353	00 00	
						IGHWAY NO.	
						IH-2	
						ETC.	



Raquel Cantu 11.05.20

LEGEND

- LARGE SIGN TO BE REMOVED
- LARGE SIGN TO BE INSTALLED
- SMALL SIGN TO BE REMOVED
- SMALL SIGN TO BE INSTALLED
- SIGN TO REMAIN IN PLACE
- LARGE SIGN TO BE RELOCATED



TEXAS DEPARTMENT OF TRANSPORTATION

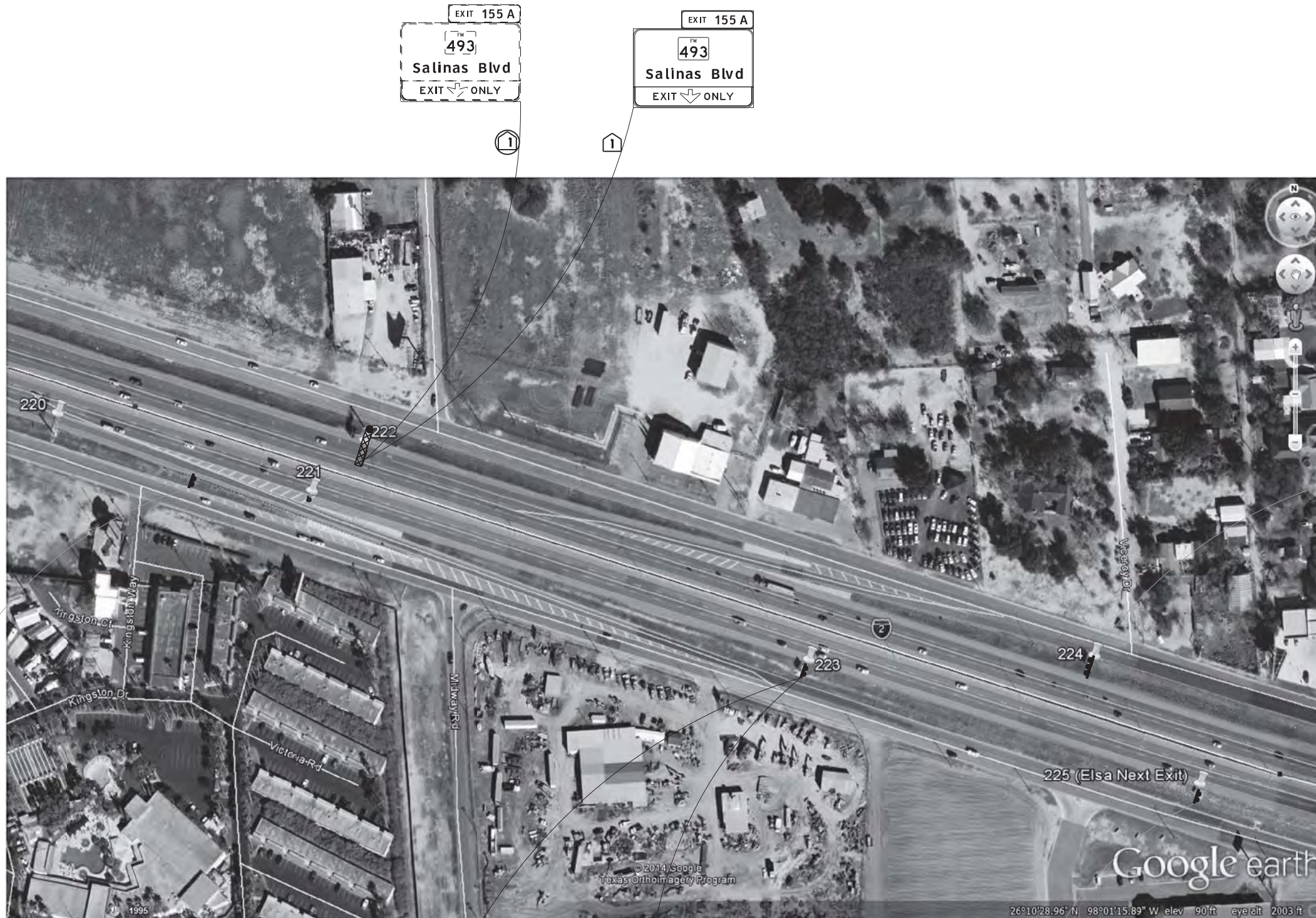
IH-2

LARGE SIGN LAYOUTS

© 2020 SHEET 18 OF 54

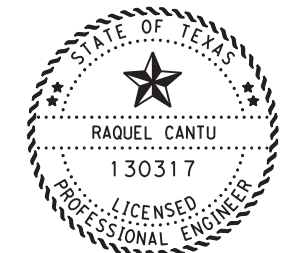
DR: L.S.J	DRAWING	DATE	FED. NO. DIV. NO.	STATE	FEDERAL PROJECT NO.	SHEET NO.
CK: DR: GV	ORIGINAL	SEP. 2020		TEXAS		49
DR: L.S.J			STATE DIST. NO.	COUNTY	CONTROL NO. SECTION NO.	JOB NO. HIGHWAY NO.
CK: DR: GV			PHARR	HIDALGO	6353 00 00	IH-2

ETC. ETC.



N
Z
SCALE: N. T. S.

EXIT 155 A
Mexico
Donna/Rio Bravo
Intl Bridge
NEXT EXIT



Raquel Cantu 11.05.20

LEGEND

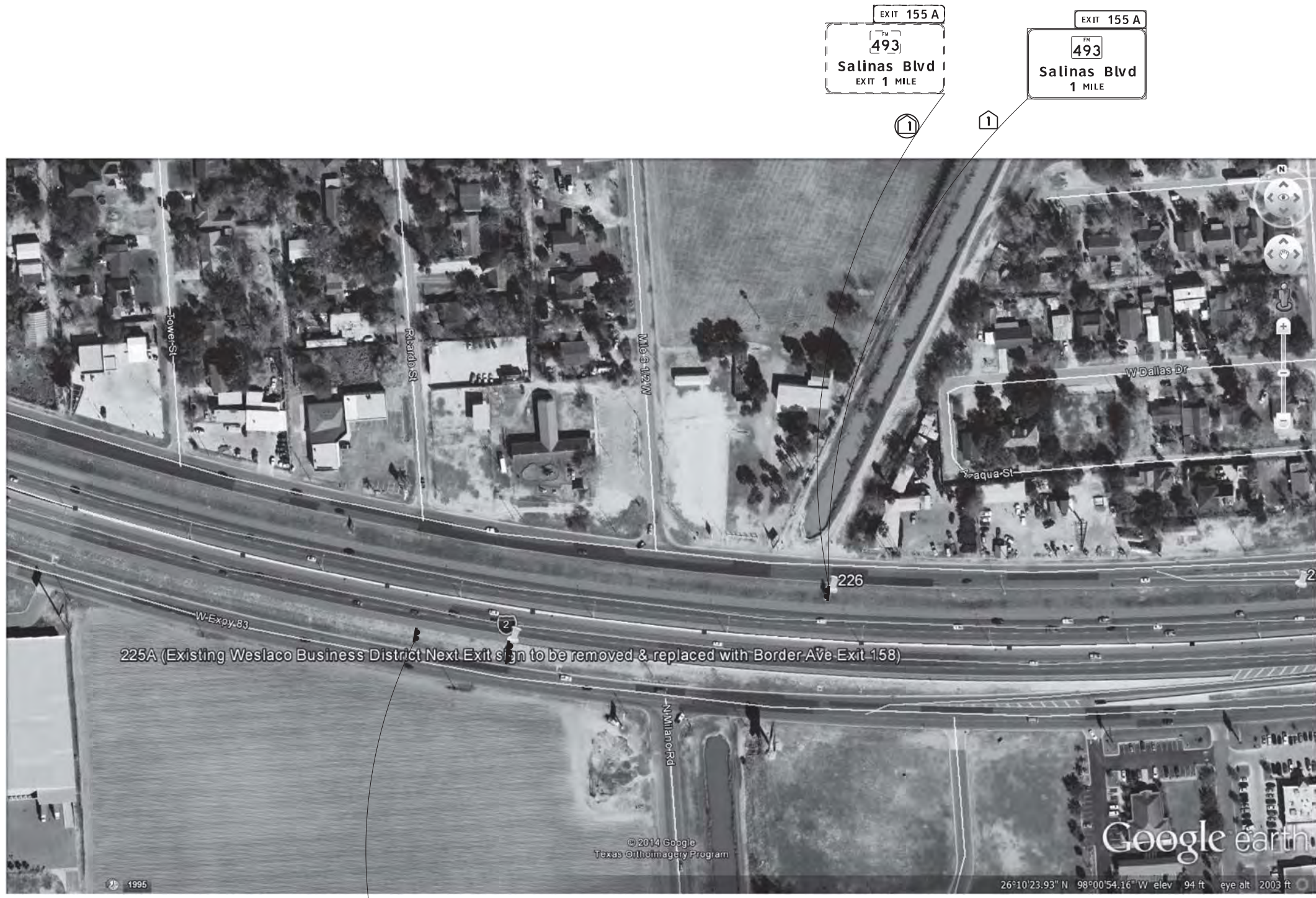
- LARGE SIGN TO BE REMOVED
- LARGE SIGN TO BE INSTALLED
- SMALL SIGN TO BE REMOVED
- SMALL SIGN TO BE INSTALLED
- SIGN TO REMAIN IN PLACE
- LARGE SIGN TO BE RELOCATED

TEXAS DEPARTMENT OF TRANSPORTATION
IH-2
LARGE SIGN LAYOUTS

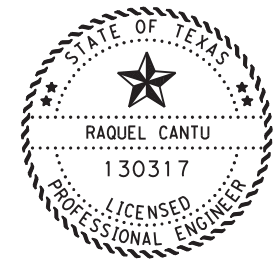
© 2020 SHEET 19 OF 54

DRW: L.S.J	DRAWING: ORIGINAL	DATE: SEP. 2020	FED. DIST. NO.: PHARR	STATE: TEXAS	FEDERAL PROJECT NO.: 6353 00 00	SHEET NO.: 50
CK: DRW: GV				COUNTY: HIDALGO	JOB NO.: IH-2	

ETC. ETC.



N
Z
SCALE: N. T. S.



Raquel Cantu 11.05.20

LEGEND

- LARGE SIGN TO BE REMOVED
- LARGE SIGN TO BE INSTALLED
- SMALL SIGN TO BE REMOVED
- SMALL SIGN TO BE INSTALLED
- SIGN TO REMAIN IN PLACE
- LARGE SIGN TO BE RELOCATED

TEXAS DEPARTMENT OF TRANSPORTATION

IH-2

LARGE SIGN LAYOUTS

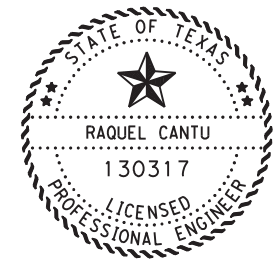
© 2020 SHEET 20 OF 54

DR: L.S.J	DRAWING	DATE	FED. NO. DIV. NO.	STATE	FEDERAL PROJECT NO.	SHEET NO.
CK: DV: GV	ORIGINAL	SEP. 2020		TEXAS		51
DR: L.S.J			STATE DIST. NO.	COUNTY	CONTROL NO. SECTION NO.	JOB NO. HIGHWAY NO.
CK: DV: GV			PHARR	HIDALGO	6353 00 00	IH-2

ETC. ETC.



N
Z
SCALE: N. T. S.



Raquel Cantu 11.05.20

LEGEND

- LARGE SIGN TO BE REMOVED
- LARGE SIGN TO BE INSTALLED
- SMALL SIGN TO BE REMOVED
- SMALL SIGN TO BE INSTALLED
- SIGN TO REMAIN IN PLACE
- LARGE SIGN TO BE RELOCATED



TEXAS DEPARTMENT OF TRANSPORTATION
IH-2
LARGE SIGN LAYOUTS

© 2020 SHEET 21 OF 54

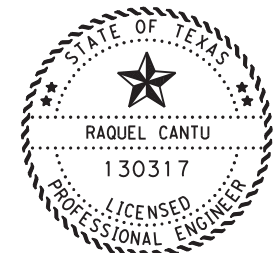
DR: L.S.J	DRAWING	DATE	FED. PROJ. NO.	STATE	FEDERAL PROJECT NO.	SHEET
CK: DV: GV	ORIGINAL	SEP. 2020		TEXAS		52
DR: L.S.J			STATE DIST. NO.	COUNTY	CONTROL NO.	SECTION NO.
CK: DV: GV			PHARR	HIDALGO	6353	00/00

ETC. IH-2, ETC.



EXIT 157
Westgate Dr
Mile 6 W Rd
EXIT ONLY

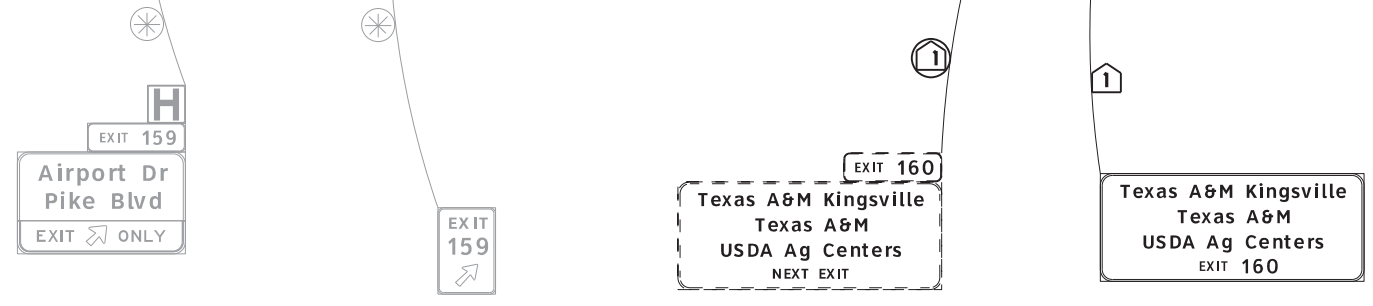
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Z
SCALE: N. T. S.



Raquel Cantu 11.05.20

LEGEND

- LARGE SIGN TO BE REMOVED
- LARGE SIGN TO BE INSTALLED
- SMALL SIGN TO BE REMOVED
- SMALL SIGN TO BE INSTALLED
- SIGN TO REMAIN IN PLACE
- LARGE SIGN TO BE RELOCATED



TEXAS DEPARTMENT OF TRANSPORTATION

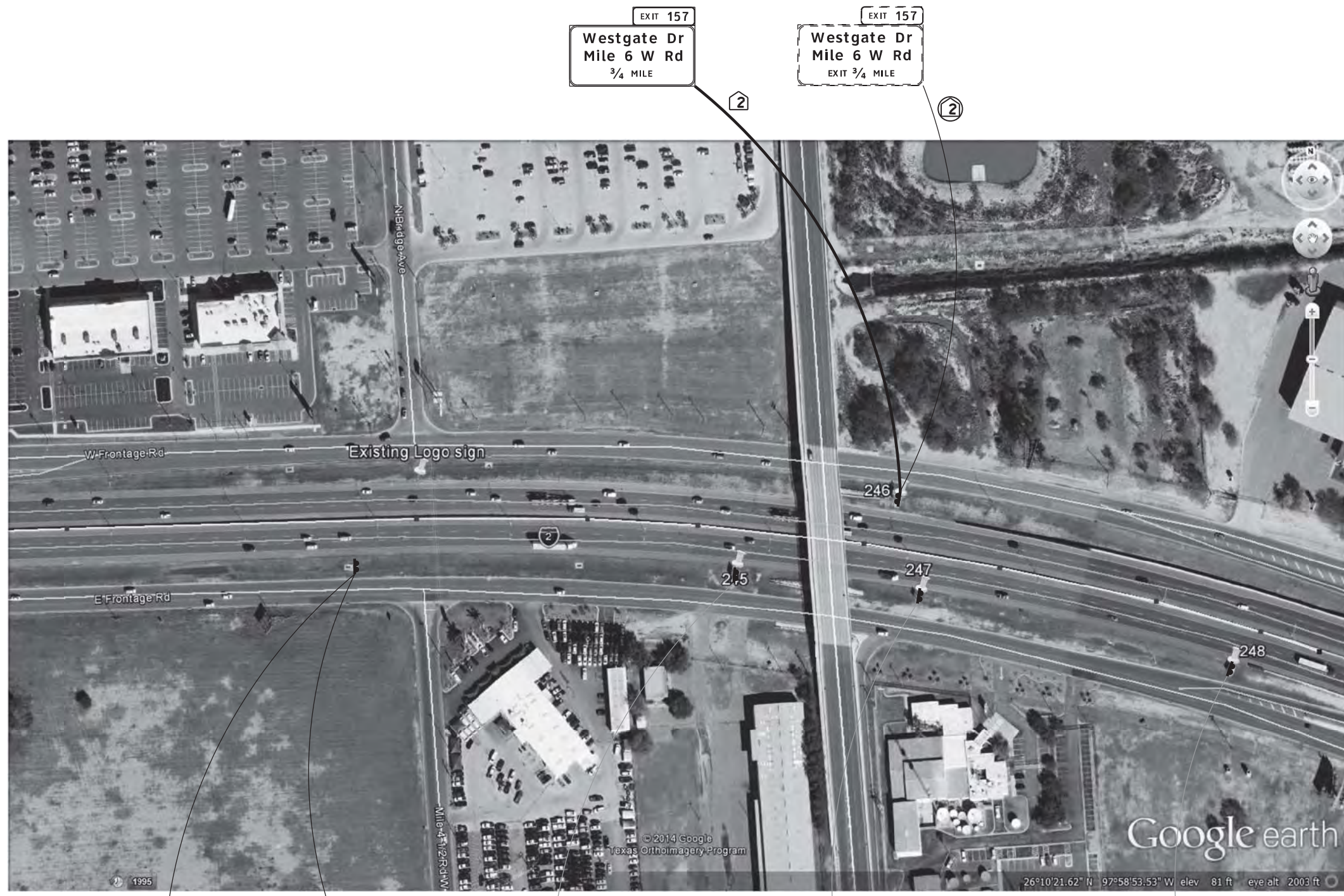
IH-2

LARGE SIGN LAYOUTS

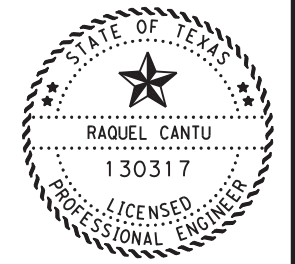
© 2020 SHEET 22 OF 54

DR: L.S.J	DRAWING: ORIGINAL	DATE: SEP. 2020	FED. NO. DIV. NO.	STATE: TEXAS	FEDERAL PROJECT NO.	SHEET NO. 53
DR: L.S.J	STATE DIST. NO. PHARR	COUNTY: HIDALGO	CONTROL NO. 6353	SECTION NO. 00	JOB NO. 00	HIGHWAY NO. IH-2

ETC. ETC.



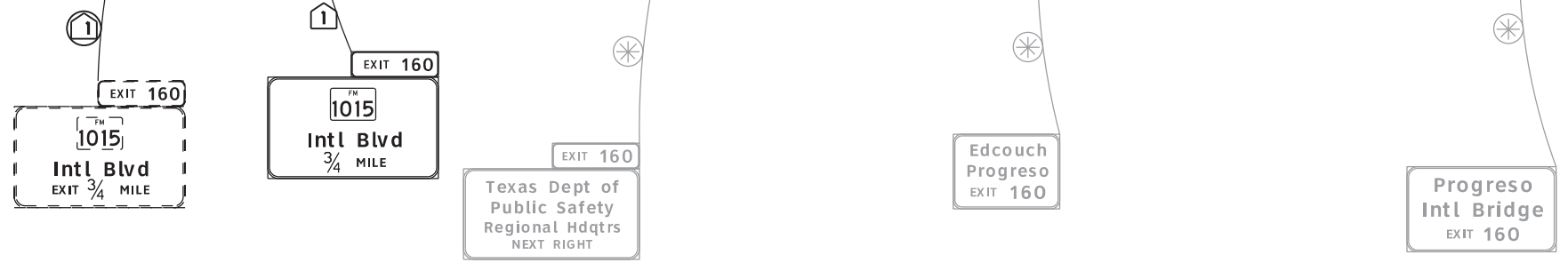
N
Z
SCALE: N. T. S.



Raquel Cantu 11.05.20

LEGEND

- LARGE SIGN TO BE REMOVED
- LARGE SIGN TO BE INSTALLED
- SMALL SIGN TO BE REMOVED
- SMALL SIGN TO BE INSTALLED
- SIGN TO REMAIN IN PLACE
- LARGE SIGN TO BE RELOCATED

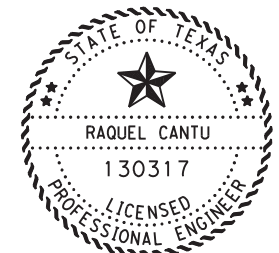
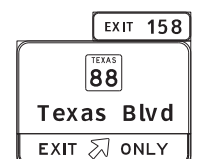
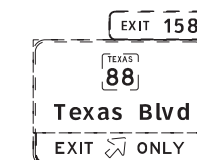
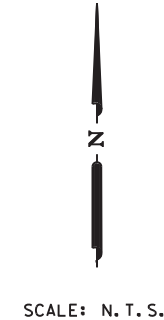


TEXAS DEPARTMENT OF TRANSPORTATION
IH-2
LARGE SIGN LAYOUTS

© 2020 SHEET 23 OF 54

DR: L.S.J.	DRAWING: ORIGINAL	DATE: SEP. 2020	FED. PROJ. NO.:	STATE: TEXAS	FEDERAL PROJECT NO.:	SHEET NO.:
CK: DR: GV						54
DR: L.S.J.			STATE DIST. NO.:	COUNTY:	CONTROL NO.:	SECTION NO.:
CK: DR: GV			PHARR	HIDALGO	6353	00 00

IGHWAY NO.: IH-2
ETC. ETC.



Raquel Cantu 11.05.20

LEGEND

- LARGE SIGN TO BE REMOVED
- LARGE SIGN TO BE INSTALLED
- SMALL SIGN TO BE REMOVED
- SMALL SIGN TO BE INSTALLED
- SIGN TO REMAIN IN PLACE
- LARGE SIGN TO BE RELOCATED



TEXAS DEPARTMENT OF TRANSPORTATION

IH-2

LARGE SIGN LAYOUTS

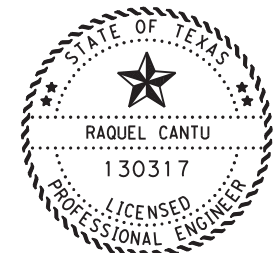
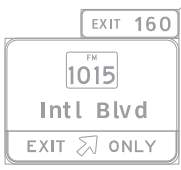
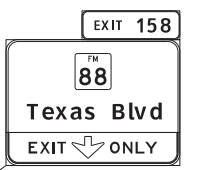
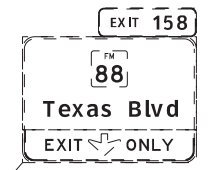
© 2020 SHEET 24 OF 54

DR: L.S.J	DRAWING	DATE	FED. PROJ. NO.	STATE	FEDERAL PROJECT NO.	SHEET NO.
CK: GV	ORIGINAL	SEP. 2020		TEXAS		55
DR: L.S.J			STATE DIST. NO.	COUNTY	CONTROL NO.	SECTION NO.
CK: GV			PHARR	HIDALGO	6353	00 00

ETC. IH-2, ETC.









SCALE: N. T. S.



Raquel Cantu 11.05.20

LEGEND

-  LARGE SIGN TO BE REMOVED
-  LARGE SIGN TO BE INSTALLED
-  SMALL SIGN TO BE REMOVED
-  SMALL SIGN TO BE INSTALLED
-  SIGN TO REMAIN IN PLACE
-  LARGE SIGN TO BE RELOCATED



TEXAS DEPARTMENT OF TRANSPORTATION

**IH-2
LARGE SIGN LAYOUTS**

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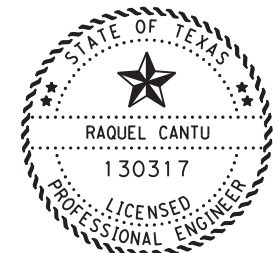
DR: L.S.J	DRAWING	DATE	FED. PROJ. NO.	STATE	FEDERAL PROJECT NO.	SHEET NO.
CK: DV: G.V	ORIGINAL	SEP. 2020		TEXAS		56
DR: L.S.J			STATE DIST. NO.	COUNTY	CONTROL NO.	SECTION NO.
CK: DV: G.V			PHARR	HIDALGO	6353	00 00
						JOB NO. HIGHWAY NO.
						IH-2, ETC.



SCALE: N. T. S.







Mercedes Business District
NEXT 5 EXITS

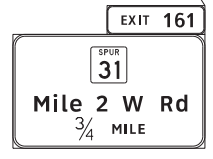
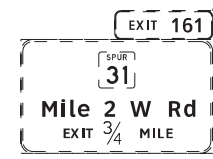
Elsa
EXIT 158



Raquel Cantu 11.05.20

LEGEND

-  LARGE SIGN TO BE REMOVED
-  LARGE SIGN TO BE INSTALLED
-  SMALL SIGN TO BE REMOVED
-  SMALL SIGN TO BE INSTALLED
-  SIGN TO REMAIN IN PLACE
-  LARGE SIGN TO BE RELOCATED



TEXAS DEPARTMENT OF TRANSPORTATION

IH-2

LARGE SIGN LAYOUTS

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DR: L.S.J.	DRAWING	DATE	FED. PROJ. NO.	STATE	FEDERAL PROJECT NO.	SHEET
CK: GV	ORIGINAL	SEP. 2020		TEXAS		57
DR: L.S.J.			STATE DIST. NO.	COUNTY	CONTROL NO.	SECTION NO.
CK: GV			PHARR	HIDALGO	6353	00 00

ETC. IH-2, ETC.



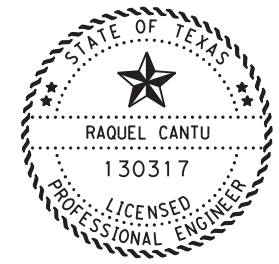
N
Z
SCALE: N. T. S.

EXIT 159
H
Airport Dr
Pike Blvd
EXIT ONLY

EXIT 159
H
Airport Dr
Pike Blvd
EXIT ONLY

EXIT 161
SPUR 31
Mile 2 W Rd
EXIT ONLY

EXIT 161
SPUR 31
Mile 2 W Rd
EXIT ONLY



Raquel Cantu 11.05.20

LEGEND

- LARGE SIGN TO BE REMOVED
- LARGE SIGN TO BE INSTALLED
- SMALL SIGN TO BE REMOVED
- SMALL SIGN TO BE INSTALLED
- SIGN TO REMAIN IN PLACE
- LARGE SIGN TO BE RELOCATED

TEXAS DEPARTMENT OF TRANSPORTATION
IH-2
LARGE SIGN LAYOUTS

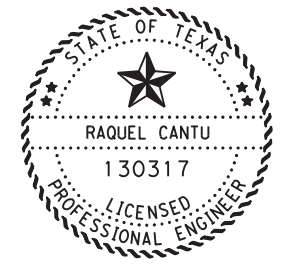
© 2020 SHEET 27 OF 54

DR: L.S.J	DRAWING	DATE	FED. PROJ. NO.	STATE	FEDERAL PROJECT NO.	SHEET NO.
CK: DV: G.V	ORIGINAL	SEP. 2020		TEXAS		58
DR: L.S.J			STATE DIST. NO.	COUNTY	CONTROL NO.	SECTION NO.
CK: DV: G.V			PHARR	HIDALGO	6353	00 00

ETC. IH-2, ETC.



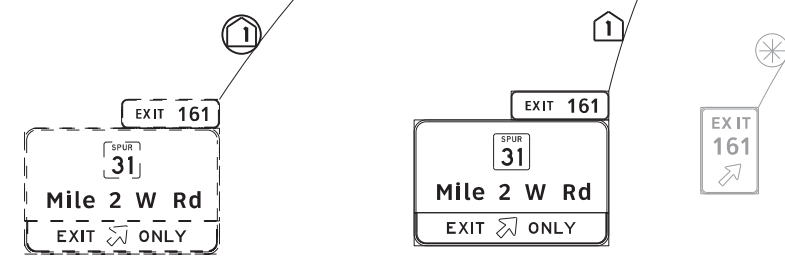
SCALE: N. T. S.



Raquel Cantu 11.05.20

LEGEND

- LARGE SIGN TO BE REMOVED
- LARGE SIGN TO BE INSTALLED
- SMALL SIGN TO BE REMOVED
- SMALL SIGN TO BE INSTALLED
- SIGN TO REMAIN IN PLACE
- LARGE SIGN TO BE RELOCATED



TEXAS DEPARTMENT OF TRANSPORTATION

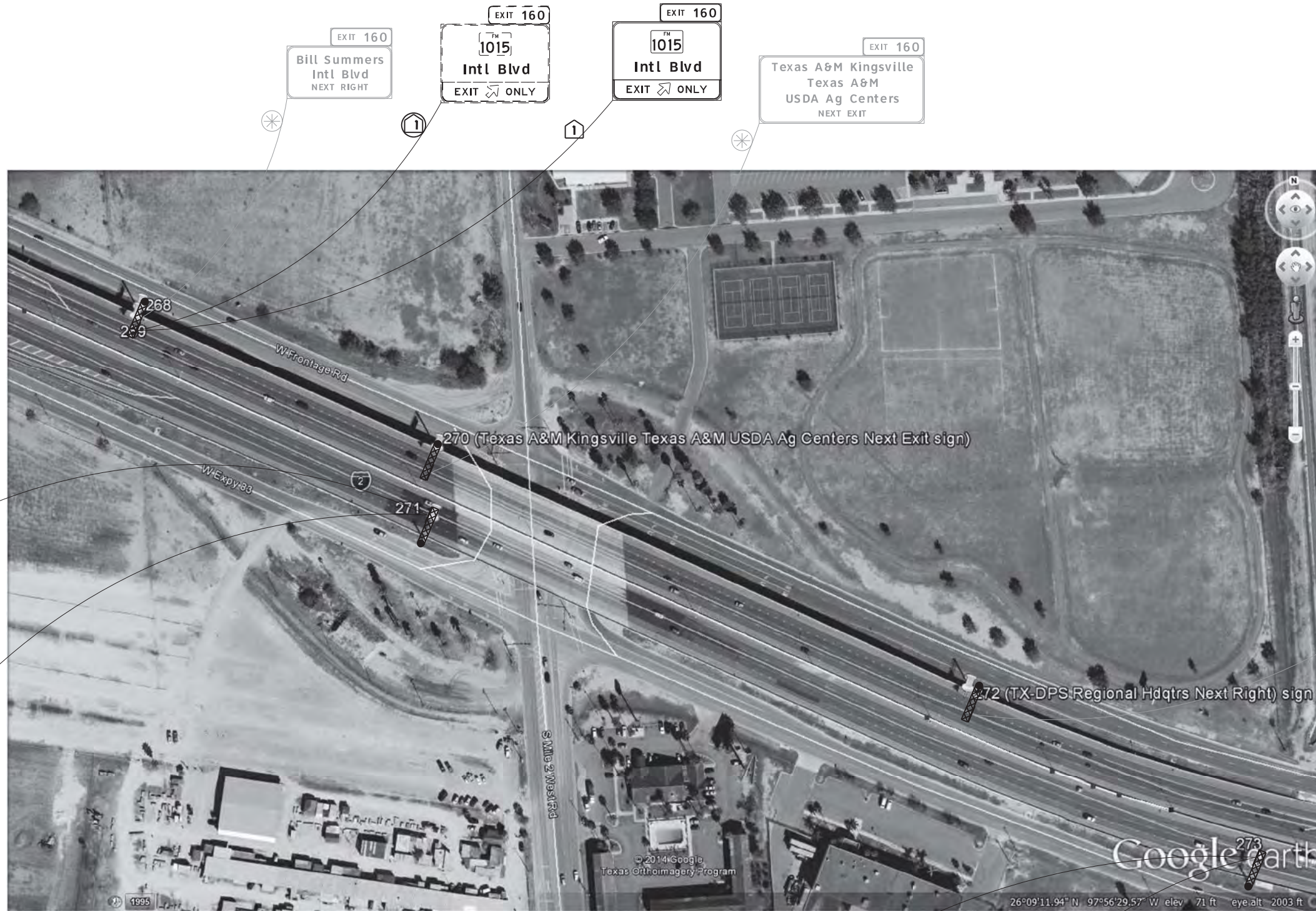
IH-2

LARGE SIGN LAYOUTS

© 2020 SHEET 28 OF 54

DR: L.S.J.	DRAWING	DATE	FED. PROJ. NO.	STATE	FEDERAL PROJECT NO.	SHEET
CK: DR: GV	ORIGINAL	SEP. 2020		TEXAS		59
DR: L.S.J.			STATE DIST. NO.	COUNTY	CONTROL NO.	SECTION NO.
CK: DR: GV			PHARR	HIDALGO	6353	00 00

ETC. IH-2, ETC.



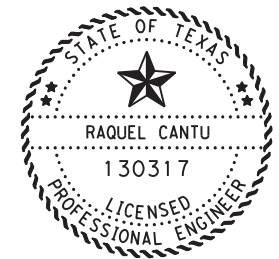
EXIT 163 A
Vermont Ave
 EXIT ONLY

EXIT 163 A
Vermont Ave
 EXIT ONLY

EXIT 160
 Texas Dept of
 Public Safety
 Regional Hdqtrs
 NEXT RIGHT

EXIT 163 A
Vermont Ave
 EXIT ONLY

EXIT 163 A
Vermont Ave
 EXIT ONLY



Raquel Cantu 11.05.20

LEGEND

- LARGE SIGN TO BE REMOVED
- LARGE SIGN TO BE INSTALLED
- SMALL SIGN TO BE REMOVED
- SMALL SIGN TO BE INSTALLED
- SIGN TO REMAIN IN PLACE
- LARGE SIGN TO BE RELOCATED

TEXAS DEPARTMENT OF TRANSPORTATION
IH-2
LARGE SIGN LAYOUTS

© 2020 SHEET 29 OF 54

DR: L.S.J.	DRAWING: ORIGINAL	DATE: SEP. 2020	FED. PROJ. NO.:	STATE: TEXAS	FEDERAL PROJECT NO.:	SHEET NO.: 60
CK: DR: G.V.			STATE DIST. NO.:	COUNTY: PHARR	CONTROL NO.: 6273	SECTION NO.: 50
					JOB NO.: 001	HIGHWAY NO.: IH-2

ETC. ETC.



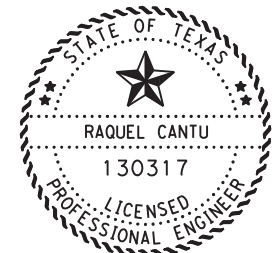
SCALE: N. T. S.

Progreso Intl Bridge
EXIT 160

EXIT 160
FM 1015
Intl Blvd
EXIT 3/4 MILE

EXIT 160
FM 1015
Intl Blvd
3/4 MILE

EXIT 163 A



Raquel Cantu 11.05.20

LEGEND

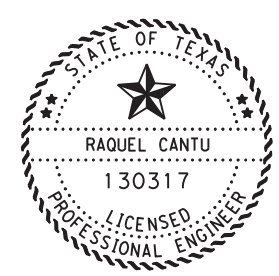
- LARGE SIGN TO BE REMOVED
- LARGE SIGN TO BE INSTALLED
- SMALL SIGN TO BE REMOVED
- SMALL SIGN TO BE INSTALLED
- SIGN TO REMAIN IN PLACE
- LARGE SIGN TO BE RELOCATED

TEXAS DEPARTMENT OF TRANSPORTATION
IH-2
LARGE SIGN LAYOUTS

© 2020 SHEET 30 OF 54

DRW	LSJ	DRAWING	DATE	FED. PROJ. NO.	STATE	FEDERAL PROJECT NO.	SHEET NO.
CR	DR	GV	ORIGINAL SEP. 2020		TEXAS		61
DR	LSJ			STATE DIST. NO.	COUNTY	CONTROL NO.	SECTION NO.
CR	DR	GV		PHARR	HIDALGO	6352	00 001

IH-2, ETC.



Raquel Cantu 11.05.20

LEGEND

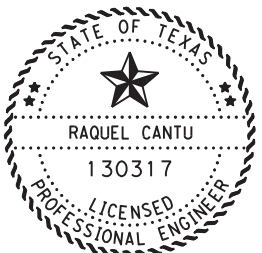
- LARGE SIGN TO BE REMOVED
- LARGE SIGN TO BE INSTALLED
- SMALL SIGN TO BE REMOVED
- SMALL SIGN TO BE INSTALLED
- SIGN TO REMAIN IN PLACE
- LARGE SIGN TO BE RELOCATED

TEXAS DEPARTMENT OF TRANSPORTATION
IH-2
LARGE SIGN LAYOUTS

© 2020 SHEET 31 OF 54

DR: L.S.J	DRAWING	DATE	FED. NO. DIV. NO.	STATE	FEDERAL PROJECT NO.	SHEET NO.
CK: DR: GV	ORIGINAL	SEP. 2020		TEXAS		62
DR: L.S.J			STATE DIST. NO.	COUNTY	CONTROL NO.	SECTION NO.
CK: DR: GV			PHARR	HIDALGO	6353	00 001

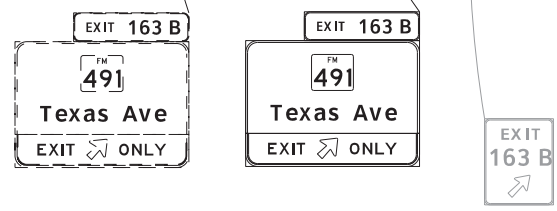
ETC. IH-2. ETC.



Raquel Cantu 11.05.20

LEGEND

- LARGE SIGN TO BE REMOVED
- LARGE SIGN TO BE INSTALLED
- SMALL SIGN TO BE REMOVED
- SMALL SIGN TO BE INSTALLED
- SIGN TO REMAIN IN PLACE
- LARGE SIGN TO BE RELOCATED



TEXAS DEPARTMENT OF TRANSPORTATION

IH-2

LARGE SIGN LAYOUTS

© 2020 SHEET 32 OF 54

DR: L.S.J	DRAWING: ORIGINAL	DATE: SEP. 2020	FILE NO. DIV. NO.	STATE: TEXAS	FEDERAL PROJECT NO.	SHEET NO.: 63
DR: L.S.J	CONTROL NO.	SECTION NO.	JOB NO.	STATE DIST. NO.: PHARR	COUNTY: HIDALGO	CONTROL NO.: 6353
DR: L.S.J	SECTION NO.	JOB NO.	SECTION NO.	SECTION NO.	SECTION NO.	SECTION NO.

ETC. ETC. ETC.



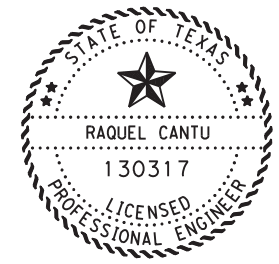
N
Z
SCALE: N. T. S.

EXIT 163 A
↗

EXIT 163 A
Vermont Ave
EXIT ↗ ONLY

EXIT 164
Mile 1 E Rd ↗

EXIT 164
Mile 1 E Rd ↗



Raquel Cantu 11.05.20

LEGEND

- LARGE SIGN TO BE REMOVED
- LARGE SIGN TO BE INSTALLED
- SMALL SIGN TO BE REMOVED
- SMALL SIGN TO BE INSTALLED
- SIGN TO REMAIN IN PLACE
- LARGE SIGN TO BE RELOCATED

TEXAS DEPARTMENT OF TRANSPORTATION
IH-2
LARGE SIGN LAYOUTS

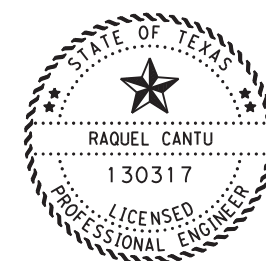
© 2020 SHEET 33 OF 54

DN: L.S.J	DRAWING	DATE	FILE NO. DIV. NO.	STATE	FEDERAL PROJECT NO.	SHEET NO.
CK DN: GV	ORIGINAL	SEP. 2020		TEXAS		64
DN: L.S.J			STATE DIST. NO.	COUNTY	CONTROL NO.	SECTION NO.
CK DN: GV			PHARR	HIDALGO,	6353	00 001
						JOB NO. IH-2,
						HIGHWAY NO. ETC.

EXIT 163 B
 FW 491
 Texas Ave
 EXIT ONLY



SCALE: N. T. S.



Raquel Cantu 11.05.20

LEGEND

- LARGE SIGN TO BE REMOVED
- LARGE SIGN TO BE INSTALLED
- SMALL SIGN TO BE REMOVED
- SMALL SIGN TO BE INSTALLED
- SIGN TO REMAIN IN PLACE
- LARGE SIGN TO BE RELOCATED

EXIT 165
 TEXAS 1425
 Mile 2 E Rd
 EXIT ONLY

EXIT 165
 TEXAS 1425
 Mile 2 E Rd
 EXIT ONLY

EXIT 165
 TEXAS 1425
 Mile 2 E Rd
 EXIT ONLY

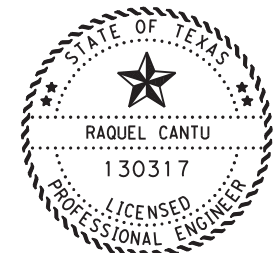
EXIT 165
 TEXAS 1425
 Mile 2 E Rd
 EXIT ONLY

TEXAS DEPARTMENT OF TRANSPORTATION
IH-2
LARGE SIGN LAYOUTS

© 2020		SHEET 34 OF 54					
DR: L.S.J	DRAWING	DATE	FED. NO.	STATE	FEDERAL PROJECT NO.		SHEET
CK: DR: GV	ORIGINAL	SEP. 2020		TEXAS			65
DR: L.S.J			STATE	COUNTY	CONTROL	SECTION	JOB
CK: DR: GV			PHARR	HIDALGO	6353	00	001
							IH-2
							ETC.



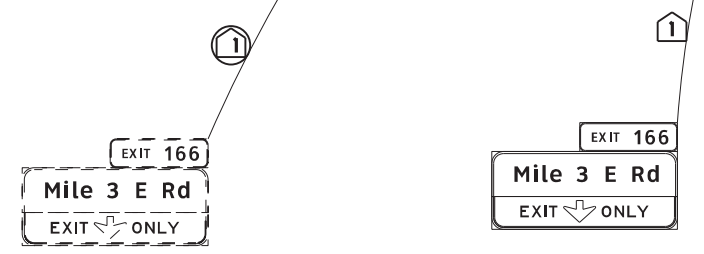
N
Z
SCALE: N. T. S.



Raquel Cantu 11.05.20

LEGEND

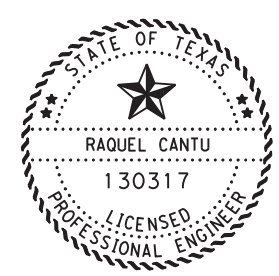
- LARGE SIGN TO BE REMOVED
- LARGE SIGN TO BE INSTALLED
- SMALL SIGN TO BE REMOVED
- SMALL SIGN TO BE INSTALLED
- SIGN TO REMAIN IN PLACE
- LARGE SIGN TO BE RELOCATED



TEXAS DEPARTMENT OF TRANSPORTATION
IH-2
LARGE SIGN LAYOUTS

© 2020 SHEET 35 OF 54

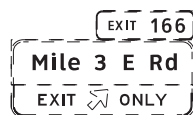
DR: L.S.J	DRAWING	DATE	FED. NO.	STATE	FEDERAL PROJECT NO.	SHEET
CK: DV: G.V	ORIGINAL	SEP. 2020		TEXAS		66
DR: L.S.J			STATE	COUNTY	CONTROL NO.	SECTION NO.
CK: DV: G.V			PHARR	HIDALGO	6353	00 001
						JOB NO.
						HWY NO.
						IH-2,
						ETC.



Raquel Cantu 11.05.20

LEGEND

-  LARGE SIGN TO BE REMOVED
-  LARGE SIGN TO BE INSTALLED
-  SMALL SIGN TO BE REMOVED
-  SMALL SIGN TO BE INSTALLED
-  SIGN TO REMAIN IN PLACE
-  LARGE SIGN TO BE RELOCATED



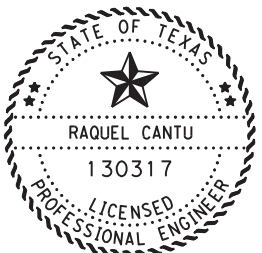
TEXAS DEPARTMENT OF TRANSPORTATION

IH-2

LARGE SIGN LAYOUTS

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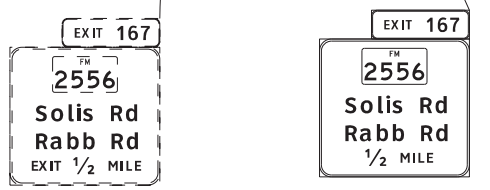
DR: L.S.J	DRAWING: ORIGINAL	DATE: SEP. 2020	FED. NO. DIV. NO.	STATE: TEXAS	FEDERAL PROJECT NO.	SHEET: 67
DR: L.S.J	STATE DIST. NO.	COUNTY: PHARR	CONTROL NO.: 6353	SECTION NO.: 00	JOB NO.: 001	HIGHWAY NO.: IH-2
DR: GV						ETC.



Raquel Cantu 11.05.20

LEGEND

- LARGE SIGN TO BE REMOVED
- LARGE SIGN TO BE INSTALLED
- SMALL SIGN TO BE REMOVED
- SMALL SIGN TO BE INSTALLED
- SIGN TO REMAIN IN PLACE
- LARGE SIGN TO BE RELOCATED

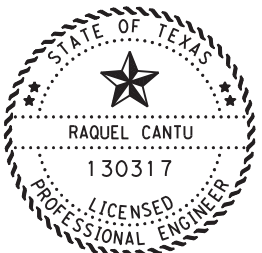


TEXAS DEPARTMENT OF TRANSPORTATION
IH-2
LARGE SIGN LAYOUTS

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DR: L.S.J	DRAWING	DATE	FED. PROJ. NO.	STATE	FEDERAL PROJECT NO.	SHEET
CK: DR: GV	ORIGINAL	SEP. 2020		TEXAS		68
DR: L.S.J			STATE DIST. NO.	COUNTY	CONTROL NO.	SECTION NO.
CK: DR: GV			PHARR	HIDALGO	6353	00 001

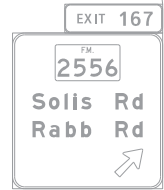
ETC. ETC.



Raquel Cantu 11.05.20

LEGEND

-  LARGE SIGN TO BE REMOVED
-  LARGE SIGN TO BE INSTALLED
-  SMALL SIGN TO BE REMOVED
-  SMALL SIGN TO BE INSTALLED
-  SIGN TO REMAIN IN PLACE
-  LARGE SIGN TO BE RELOCATED



TEXAS DEPARTMENT OF TRANSPORTATION

IH-2

LARGE SIGN LAYOUTS

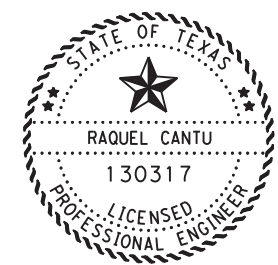
© 2020 SHEET 38 OF 54

DR: L.S.J	DRAWING	DATE	FED. PROJ. NO.	STATE	FEDERAL PROJECT NO.	SHEET
CK: DR: G.V	ORIGINAL	SEP. 2020		TEXAS		69
DR: L.S.J			STATE DIST. NO.	COUNTY	CONTROL NO.	SECTION NO.
CK: DR: G.V			PHARR	HIDALGO	6353	00 001

IH-2, ETC.



N
Z
SCALE: N. T. S.



Raquel Cantu 11.05.20

LEGEND

- LARGE SIGN TO BE REMOVED
- LARGE SIGN TO BE INSTALLED
- SMALL SIGN TO BE REMOVED
- SMALL SIGN TO BE INSTALLED
- SIGN TO REMAIN IN PLACE
- LARGE SIGN TO BE RELOCATED

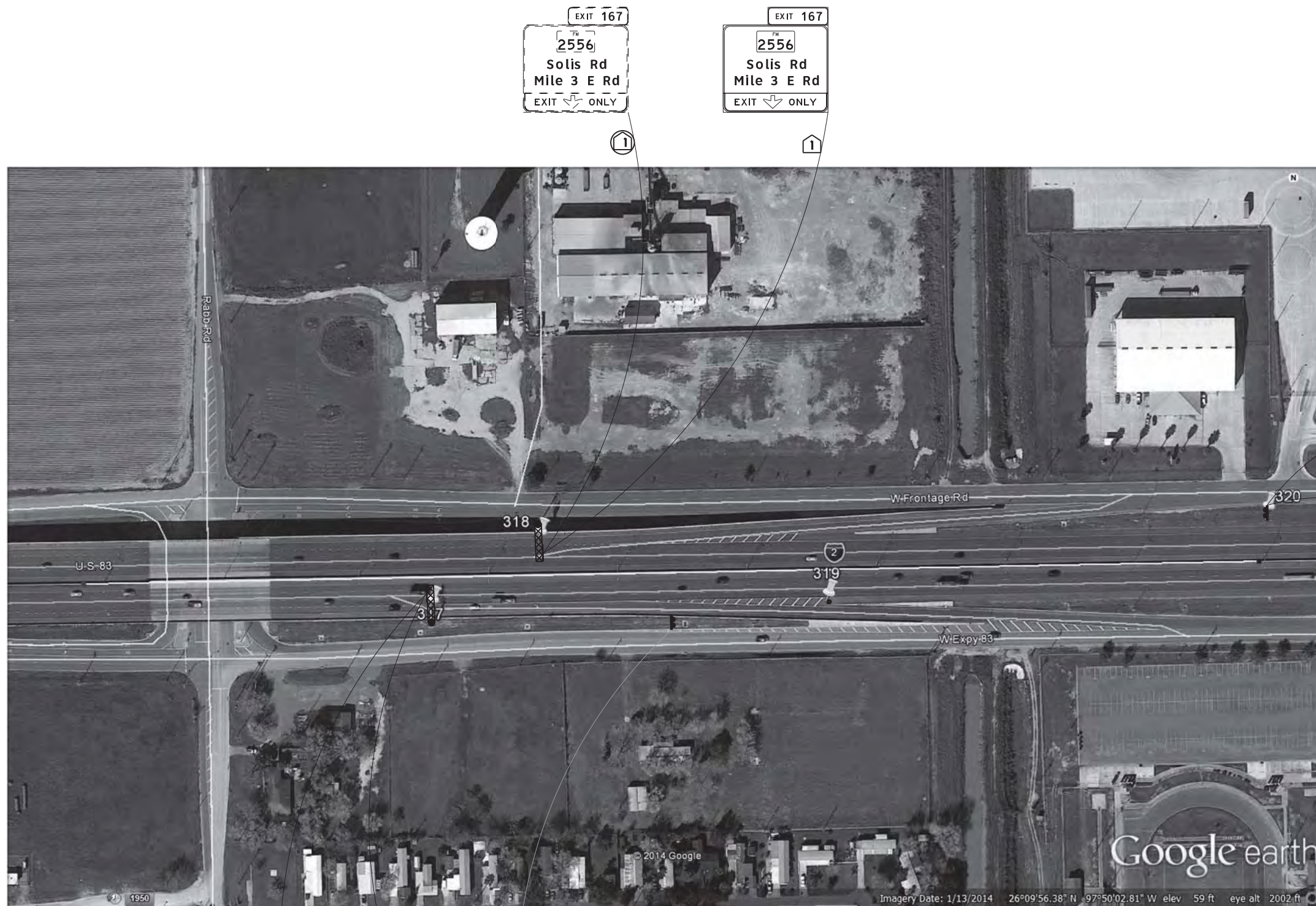


TEXAS DEPARTMENT OF TRANSPORTATION
IH-2
LARGE SIGN LAYOUTS

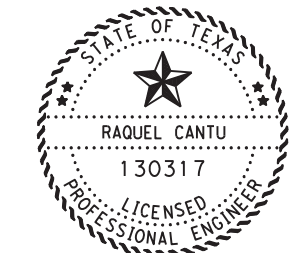
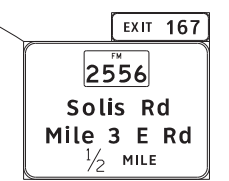
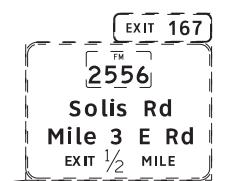
© 2020 SHEET 39 OF 54

DR: L.S.J	DRAWING: ORIGINAL	DATE: SEP. 2020	FED. DIST. NO.:	STATE: TEXAS	FEDERAL PROJECT NO.:	SHEET NO.:
DR: L.S.J	STATE DIST. NO.:	COUNTY: PHARR	CONTROL NO.:	SECTION NO.:	JOB NO.:	HIGHWAY NO.:
DR: G.V	STATE DIST. NO.:	COUNTY: PHARR	CONTROL NO.:	SECTION NO.:	JOB NO.:	HIGHWAY NO.:
DR: G.V	STATE DIST. NO.:	COUNTY: PHARR	CONTROL NO.:	SECTION NO.:	JOB NO.:	HIGHWAY NO.:

ETC. ETC.









SCALE: N. T. S.



Raquel Cantu 11.05.20

LEGEND

-  LARGE SIGN TO BE REMOVED
-  LARGE SIGN TO BE INSTALLED
-  SMALL SIGN TO BE REMOVED
-  SMALL SIGN TO BE INSTALLED
-  SIGN TO REMAIN IN PLACE
-  LARGE SIGN TO BE RELOCATED



TEXAS DEPARTMENT OF TRANSPORTATION

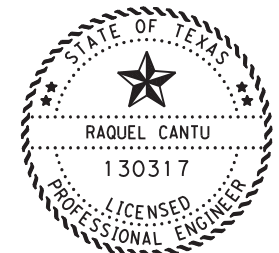
IH-2

LARGE SIGN LAYOUTS

© 2020 SHEET 40 OF 54

DR: L.S.J.	DRAWING: ORIGINAL	DATE: SEP. 2020	FED. PROJ. NO.:	STATE: TEXAS	FEDERAL PROJECT NO.:	SHEET: 71
DR: L.S.J.	STATE DIST. NO.:	COUNTY: PHARR	CONTROL NO.:	SECTION NO.:	JOB NO.:	ROUTE NO.:
DR: L.S.J.	PHARR	HIDALGO	6353	00	001	IH-2

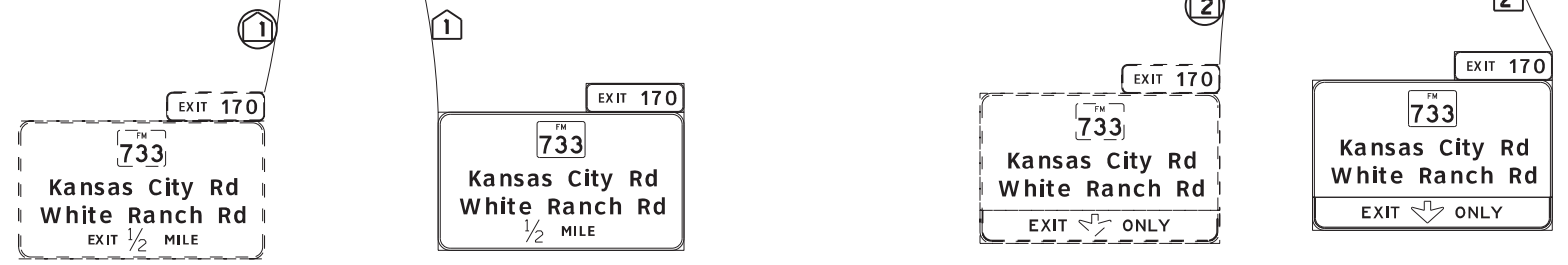
ETC. ETC.



Raquel Cantu 11.05.20

LEGEND

- LARGE SIGN TO BE REMOVED
- LARGE SIGN TO BE INSTALLED
- SMALL SIGN TO BE REMOVED
- SMALL SIGN TO BE INSTALLED
- SIGN TO REMAIN IN PLACE
- LARGE SIGN TO BE RELOCATED



TEXAS DEPARTMENT OF TRANSPORTATION

IH-2

LARGE SIGN LAYOUTS

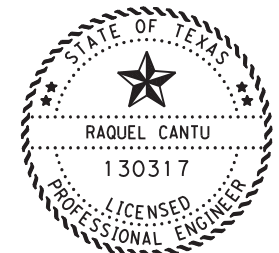
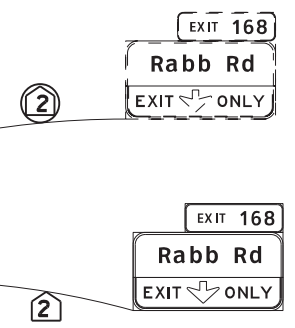
© 2020 SHEET 41 OF 54

DR: L.S.J.	DRAWING: ORIGINAL	DATE: SEP. 2020	FED. DIST. NO.:	STATE: TEXAS	FEDERAL PROJECT NO.:	SHEET NO.:
DR: L.S.J.			STATE DIST. NO.:	COUNTY: PHARR	CONTROL NO.:	SECTION NO.:
DR: G.V.				HIDALGO, 6353	00	001
DR: G.V.						

ETC. ETC.



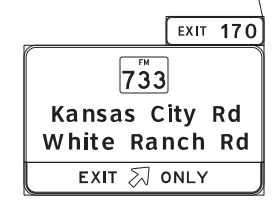
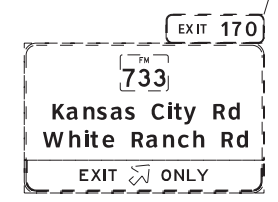
SCALE: N. T. S.



Raquel Cantu 11.05.20

LEGEND

- LARGE SIGN TO BE REMOVED
- LARGE SIGN TO BE INSTALLED
- SMALL SIGN TO BE REMOVED
- SMALL SIGN TO BE INSTALLED
- SIGN TO REMAIN IN PLACE
- LARGE SIGN TO BE RELOCATED



TEXAS DEPARTMENT OF TRANSPORTATION

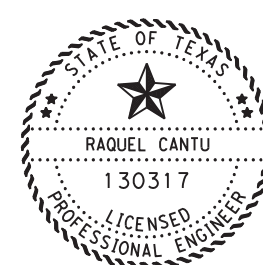
IH-2

LARGE SIGN LAYOUTS

© 2020 SHEET 42 OF 54

Dn: L.S.J	DRAWING	DATE	FILE NO.	STATE	FEDERAL PROJECT NO.
Ck: Dn: G.V	ORIGINAL	SEP. 2020		TEXAS	73
Dn: L.S.J			STATE DIST. NO.	COUNTY	CONTROL NO. SECTION NO. JOB NO.
Ck: Dn: G.V			PHARR	HIDALGO	6353 00 001 IH-2

ETC. ETC.



Raquel Cantu 11.05.20

LEGEND

- LARGE SIGN TO BE REMOVED
- LARGE SIGN TO BE INSTALLED
- SMALL SIGN TO BE REMOVED
- SMALL SIGN TO BE INSTALLED
- SIGN TO REMAIN IN PLACE
- LARGE SIGN TO BE RELOCATED

TEXAS DEPARTMENT OF TRANSPORTATION
IH-2
LARGE SIGN LAYOUTS

© 2020 SHEET 43 OF 54

DRW	LSJ	DRAWING	DATE	FED. PROJ. NO.	STATE	FEDERAL PROJECT NO.	SHEET
CK	DR	GV	ORIGINAL SEP. 2020		TEXAS		74
DRW	LSJ			STATE DIST. NO.	COUNTY	CONTROL NO.	SECTION NO.
CK	DR	GV		PHARR	HIDALGO	6353	00 001

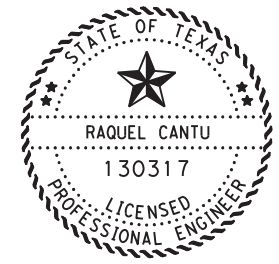
IGHWAY NO. IH-2
ETC. ETC.

EXIT 169
 FM 506
 La Feria
 Santa Rosa
 EXIT ONLY









SCALE: N. T. S.

EXIT 171
 ↗



Raquel Cantu 11.05.20

LEGEND

-  LARGE SIGN TO BE REMOVED
-  LARGE SIGN TO BE INSTALLED
-  SMALL SIGN TO BE REMOVED
-  SMALL SIGN TO BE INSTALLED
-  SIGN TO REMAIN IN PLACE
-  LARGE SIGN TO BE RELOCATED

EXIT 171
 FM 800
 Bass Blvd
 EXIT ONLY

EXIT 171
 FM 800
 Bass Blvd
 EXIT ONLY

TEXAS DEPARTMENT OF TRANSPORTATION

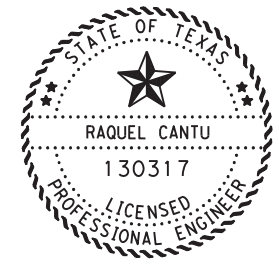
IH-2

LARGE SIGN LAYOUTS

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DR: L.S.J.	DRAWING	DATE	FED. PROJ. NO.	STATE	FEDERAL PROJECT NO.	SHEET
CK: DR: G.V.	ORIGINAL	SEP. 2020		TEXAS		75
DR: L.S.J.			STATE DIST. NO.	COUNTY	CONTROL NO.	SECTION NO.
CK: DR: G.V.			PHARR	HIDALGO	6273	50 001

ETC. IH-2, ETC.



Raquel Cantu 11.05.20

LEGEND

-  LARGE SIGN TO BE REMOVED
-  LARGE SIGN TO BE INSTALLED
-  SMALL SIGN TO BE REMOVED
-  SMALL SIGN TO BE INSTALLED
-  SIGN TO REMAIN IN PLACE
-  LARGE SIGN TO BE RELOCATED

EXIT 172
 Atlas Palmas Rd
 EXIT ONLY

EXIT 172
 Atlas Palmas Rd
 EXIT ONLY

EXIT 170
 White Ranch Rd
 EXIT ONLY

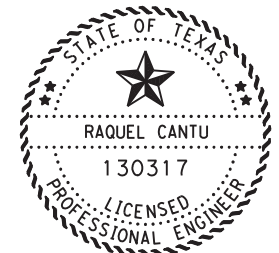
EXIT 170
 White Ranch Rd
 EXIT ONLY

TEXAS DEPARTMENT OF TRANSPORTATION
IH-2
LARGE SIGN LAYOUTS

© 2020		SHEET 45 OF 54					
DR: L.S.J	DRAWING	DATE	FED. PROJ. NO.	STATE	FEDERAL PROJECT NO.		
CK: DV: G.V	ORIGINAL	SEP. 2020		TEXAS	76		
DR: L.S.J			STATE DIST. NO.	COUNTY	CONTROL NO.	SECTION NO.	
CK: DV: G.V			PHARR	HIDALGO	6273	50 001	
			ETC.			IH-2	
						ETC.	



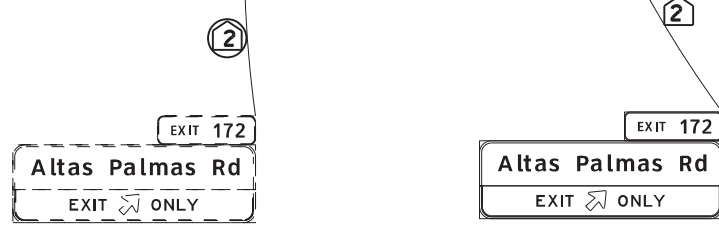
N
SCALE: N. T. S.



Raquel Cantu 11.05.20

LEGEND

- LARGE SIGN TO BE REMOVED
- LARGE SIGN TO BE INSTALLED
- SMALL SIGN TO BE REMOVED
- SMALL SIGN TO BE INSTALLED
- SIGN TO REMAIN IN PLACE
- LARGE SIGN TO BE RELOCATED



TEXAS DEPARTMENT OF TRANSPORTATION
IH-2
LARGE SIGN LAYOUTS

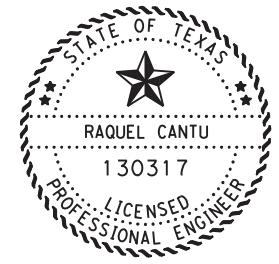
© 2020 SHEET 46 OF 54

DRW: L.S.J	DRAWING: ORIGINAL	DATE: SEP. 2020	FED. DIST. NO.: PHARR	STATE: TEXAS	FEDERAL PROJECT NO.: 6353 00 001	SHEET NO.: 77
CHK: DRW: L.S.J	CHK: DRW: GV		STATE DIST. NO.: PHARR	COUNTY: HIDALGO	CONTROL NO.: 6353	SECTION NO.: 00 001
						JOB NO.: IH-2

ETC. ETC.



N
SCALE: N. T. S.



Raquel Cantu 11.05.20

LEGEND

- LARGE SIGN TO BE REMOVED
- LARGE SIGN TO BE INSTALLED
- SMALL SIGN TO BE REMOVED
- SMALL SIGN TO BE INSTALLED
- SIGN TO REMAIN IN PLACE
- LARGE SIGN TO BE RELOCATED

EXIT 172
3195
Stuart Place Rd
EXIT 3/4 MILE

2
Palm Valley
Primera
EXIT 173

2
Palm Valley
Primera
EXIT 173

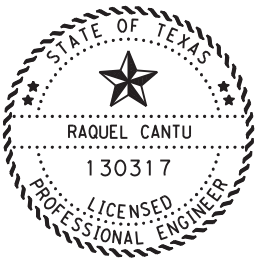
TEXAS DEPARTMENT OF TRANSPORTATION
IH-2
LARGE SIGN LAYOUTS

© 2020 SHEET 47 OF 54

DRW: L.S.J.	DRAWING: ORIGINAL	DATE: SEP. 2020	FED. PROJ. NO.	STATE: TEXAS	FEDERAL PROJECT NO.	SHEET NO.: 78
DRW: L.S.J.			STATE DIST. NO.: PHARR	COUNTY: HIDALGO	CONTROL NO.: 6353	SECTION NO.: 00 001
DRW: G.V.						JOB NO.: IH-2, ETC.



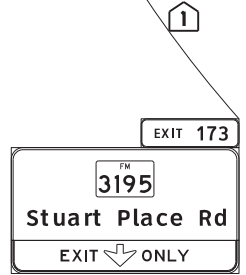
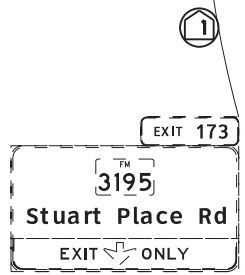
N
Z
SCALE: N. T. S.



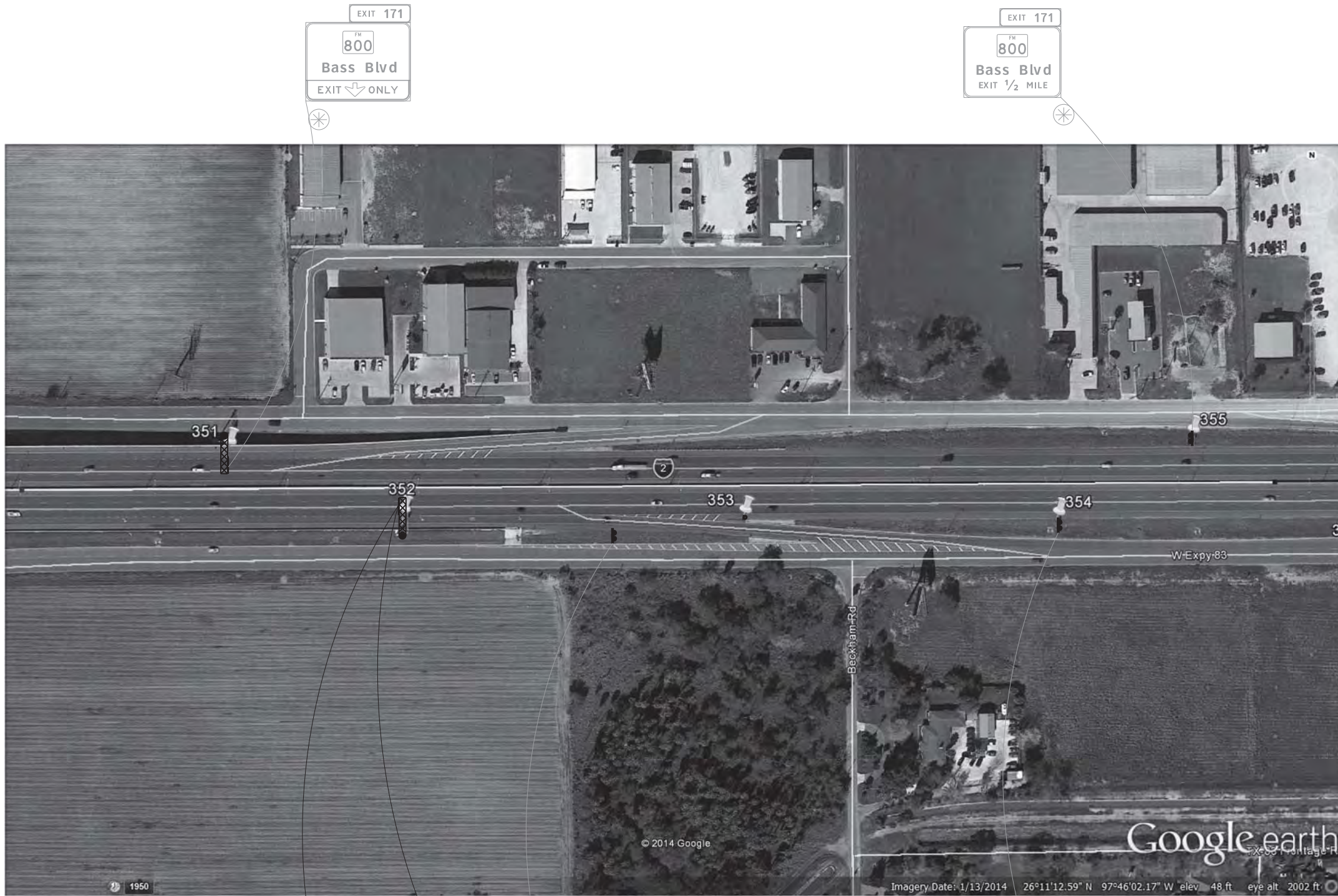
Raquel Cantu 11.05.20

LEGEND

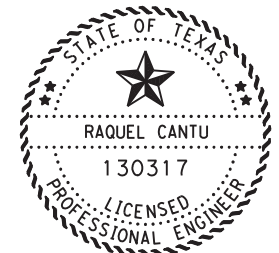
- LARGE SIGN TO BE REMOVED
- LARGE SIGN TO BE INSTALLED
- SMALL SIGN TO BE REMOVED
- SMALL SIGN TO BE INSTALLED
- SIGN TO REMAIN IN PLACE
- LARGE SIGN TO BE RELOCATED



		TEXAS DEPARTMENT OF TRANSPORTATION			
		IH-2			
		LARGE SIGN LAYOUTS			
© 2020		SHEET 48 OF 54			
DRW	LSJ	DRAWING	DATE	FED. PROJ. NO.	STATE
CK	DR	GV	ORIGINAL	SEP. 2020	TEXAS
DR	LSJ			STATE DIST. NO.	COUNTY
CK	DR	GV		PHARR	HIDALGO
				CONTROL NO.	SECTION NO.
				6353	00 001
				JOB NO. HIGHWAY NO.	
				00 001 IH-2	
				ETC.	



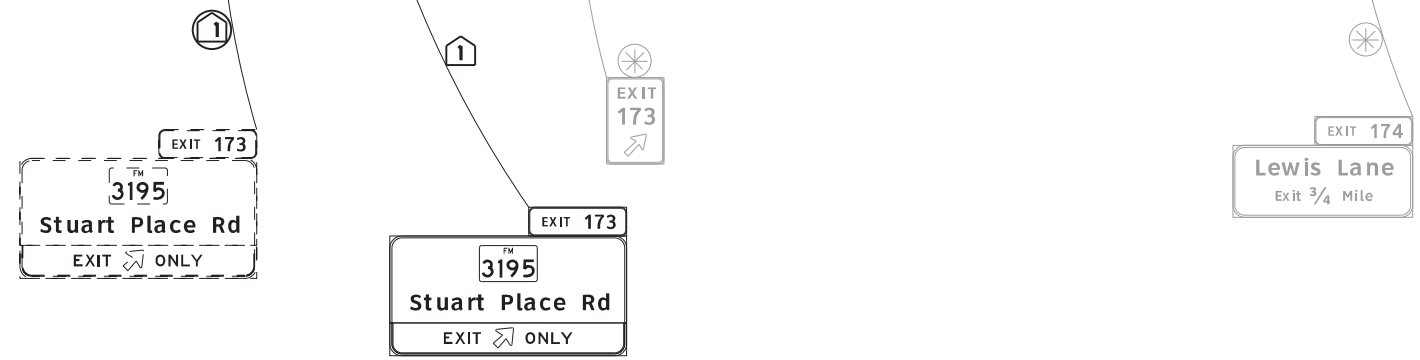
N
Z
SCALE: N. T. S.



Raquel Cantu 11.05.20

LEGEND

- LARGE SIGN TO BE REMOVED
- LARGE SIGN TO BE INSTALLED
- SMALL SIGN TO BE REMOVED
- SMALL SIGN TO BE INSTALLED
- SIGN TO REMAIN IN PLACE
- LARGE SIGN TO BE RELOCATED



TEXAS DEPARTMENT OF TRANSPORTATION
IH-2
LARGE SIGN LAYOUTS

© 2020 SHEET 49 OF 54

DRW: L.S.J.	DRAWING: ORIGINAL	DATE: SEP. 2020	FED. PROJ. NO.	STATE: TEXAS	FEDERAL PROJECT NO.	SHEET NO.: 80
DRW: L.S.J.			STATE DIST. NO.: PHARR	COUNTY: HIDALGO	CONTROL NO.: 6353	SECTION NO.: 00 001
DRW: GV						JOB NO.: IH-2

ETC. ETC.



N
SCALE: N. T. S.

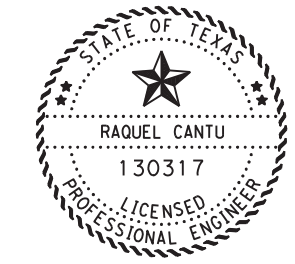
Baseball Stadium
EXIT 174

LEGEND

- LARGE SIGN TO BE REMOVED
- LARGE SIGN TO BE INSTALLED
- SMALL SIGN TO BE REMOVED
- SMALL SIGN TO BE INSTALLED
- SIGN TO REMAIN IN PLACE
- LARGE SIGN TO BE RELOCATED

EXIT 174
BUSINESS
Lewis Lane
EXIT ONLY

EXIT 174
BUSINESS
Lewis Lane
EXIT ONLY

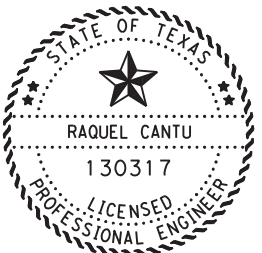


Raquel Cantu 11.05.20

TEXAS DEPARTMENT OF TRANSPORTATION
IH-2
LARGE SIGN LAYOUTS

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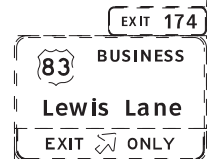
DATE	LSJ	DRAWING	DATE	FED. PROJ. DIV. NO.	STATE	FEDERAL PROJECT NO.	SHEET NO.
09/2020	GV	ORIGINAL	SEP. 2020		TEXAS		81
DATE	LSJ	STATE DIST. NO.	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	HIGHWAY NO.
09/2020	GV	PHARR	HIDALGO	6353	00	001	IH-2, ETC.



Raquel Cantu 11.05.20

LEGEND

- LARGE SIGN TO BE REMOVED
- LARGE SIGN TO BE INSTALLED
- SMALL SIGN TO BE REMOVED
- SMALL SIGN TO BE INSTALLED
- SIGN TO REMAIN IN PLACE
- LARGE SIGN TO BE RELOCATED



TEXAS DEPARTMENT OF TRANSPORTATION
IH-2
LARGE SIGN LAYOUTS

© 2020 SHEET 51 OF 54

DRW: L.S.J	DRAWING: ORIGINAL	DATE: SEP. 2020	FED. DIST. NO.: PHARR	STATE: TEXAS	FEDERAL PROJECT NO.: 6353 00 001	SHEET NO.: 82
DRW: L.S.J	CONTROL NO.: 6353	SECTION NO.: 00	JOB NO.: 001	HIGHWAY NO.: IH-2,	ETC.	



SCALE: N. T. S.

EXIT 176
NORTH
69E 77
Raymondville
Corpus Christi
EXIT 1 MILE

EXIT 176
Valley
Intl Airport
EXIT LEFT 1 MILE

SOUTH
69E 77 83
Brownsville
EXIT 1 MILE







EXIT 172
3195
Stuart Place
Rd

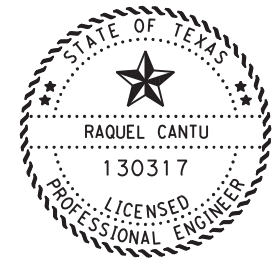
SOUTH
69E 77 83
Brownsville

EXIT 175
Downtown
Tyler Ave
Dixieland Rd
Bass Pro Dr
EXIT 1/2 MILE

EXIT 175
Downtown
Tyler Ave
Dixieland Rd
Bass Pro Dr
1/2 MILE

LEGEND

-  LARGE SIGN TO BE REMOVED
-  LARGE SIGN TO BE INSTALLED
-  SMALL SIGN TO BE REMOVED
-  SMALL SIGN TO BE INSTALLED
-  SIGN TO REMAIN IN PLACE
-  LARGE SIGN TO BE RELOCATED



Raquel Cantu 11.05.20

TEXAS DEPARTMENT OF TRANSPORTATION
IH-2
LARGE SIGN LAYOUTS

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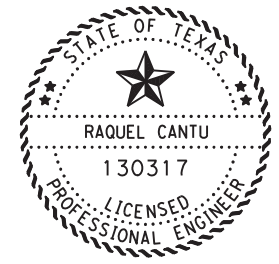
DRW: L.S.J.	DRAWING: ORIGINAL	DATE: SEP. 2020	FED. PROJ. NO.	STATE: TEXAS	FEDERAL PROJECT NO.	SHEET NO.: 83
DRW: L.S.J.			STATE DIST. NO.: PHARR	COUNTY: HIDALGO	CONTROL NO.: 6353	SECTION NO.: 00 001
DRW: L.S.J.						JOB NO.: IH-2

ETC. ETC.



SCALE: N. T. S.

EXIT 174
Lewis Lane
EXIT ONLY



Raquel Cantu 11.05.20

LEGEND

- LARGE SIGN TO BE REMOVED
- LARGE SIGN TO BE INSTALLED
- SMALL SIGN TO BE REMOVED
- SMALL SIGN TO BE INSTALLED
- SIGN TO REMAIN IN PLACE
- LARGE SIGN TO BE RELOCATED

Texas Travel Information Center
EXIT 175

EXIT 176
NORTH
69E 77
Raymondville
Corpus Christi
EXIT ONLY

SOUTH
69E 77 83
Brownsville

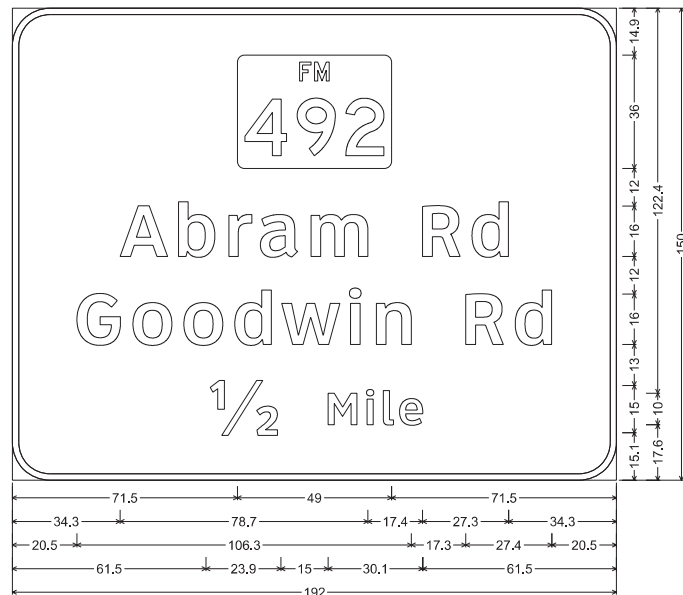
EXIT 175
Downtown
Tyler Ave
Dixieland Rd
Bass Pro Dr
EXIT ONLY

EXIT 175
Downtown
Tyler Ave
Dixieland Rd
Bass Pro Dr
EXIT ONLY

TEXAS DEPARTMENT OF TRANSPORTATION
IH-2
LARGE SIGN LAYOUTS

© 2020 SHEET 53 OF 54

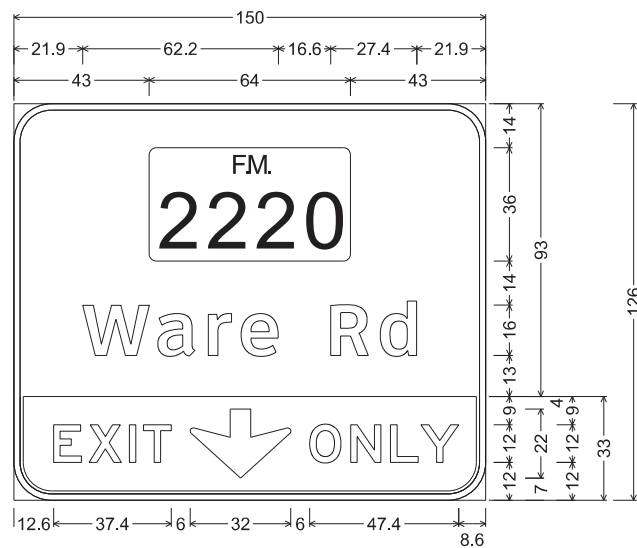
DRW: L.S.J.	DRAWING: ORIGINAL	DATE: SEP. 2020	FED. PROJ. DIV. NO.	STATE: TEXAS	FEDERAL PROJECT NO.	SHEET NO.: 84
DRW: L.S.J.			STATE DIST. NO.: PHARR	COUNTY: HIDALGO	CONTROL NO.: 6353	SECTION NO.: 00 001
DRW: G.V.						JOB NO.: IH-2, ETC.



Sequence Sign:
 12.0" Radius, 2.0" Border, White on, Green;
 State Highway 492 M1-6F3; "Abram Rd", ClearviewHwy-5-W-R;
 "Goodwin Rd", ClearviewHwy-5-W-R; "1/2", ClearviewHwy-5-W-R; "Mile", ClearviewHwy-5-W-R;
 Table of letter and object lefts

492											
71.5											
A	b	r	a	m	R	d					
34.3	52.8	68.8	78.8	94.9	130.4	146.1					
G	o	o	d	w	i	n	R	d			
20.5	38.3	54.5	70.7	85.6	107.1	115.7	144.1	159.8			
1/2	M	i	l	e							
61.5	100.4	112.6	117.9	123.1							

SHEET NO. 1 OF 54 SIGN NO. 1



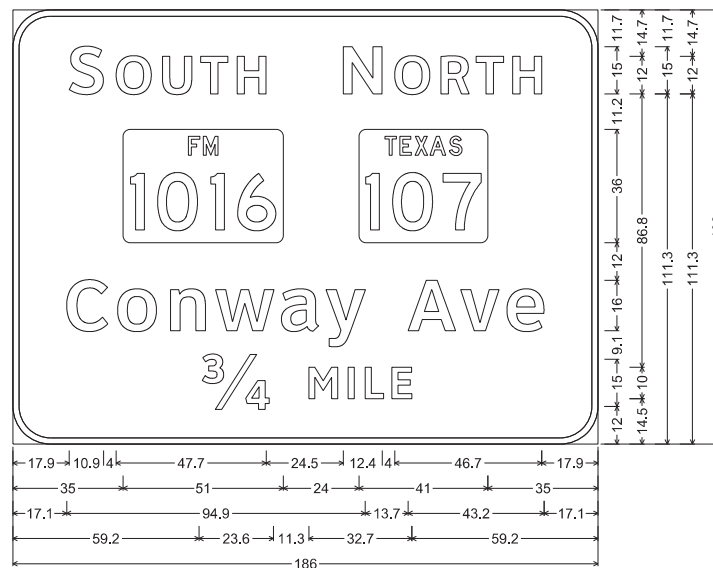
12.0" Radius, 2.0" Border, White on, Green;
 State Highway 2220 4;
 "Ware Rd", ClearviewHwy-5-W-R;

E11-1;
 1.0" Inner border Green, 12.0" Radius, 2.0" Outer border, White on, Yellow;
 "EXIT" Black, E; Down Arrow 22 - 22.0" 270' Black;
 "ONLY" Black, E;

Table of letter and object lefts

2220						
43.0						
W	a	r	e	R	d	
21.9	45.8	61.8	72.2	100.7	116.4	
E	X	I	T	↓	O	N
12.6	23.9	36.7	41.2	56.0	94.0	107.1
L	Y					
119.7	129.4					

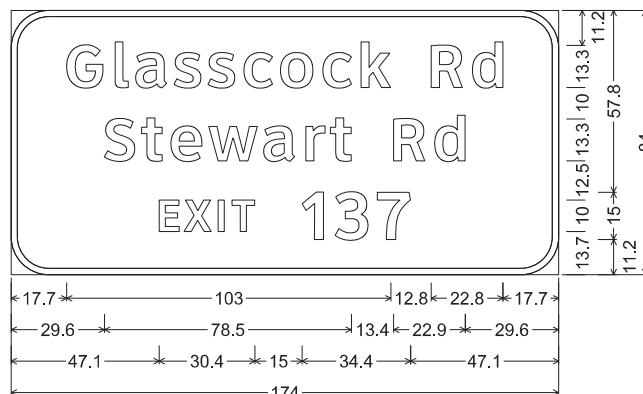
SHEET NO. 3 OF 54 SIGN NO. 1



FM 396 Bryan Rd Anzakwas Hwy exit 3-4 mile;
 12.0" Radius, 2.0" Border, White on, Green;
 "S", ClearviewHwy-5-W-R; "OUTH", ClearviewHwy-5-W-R; "N", ClearviewHwy-5-W-R;
 "ORTH", ClearviewHwy-5-W-R; State Highway 1016 M1-6F4;
 State Highway 107 M1-6T3; "Conway Ave", ClearviewHwy-5-W-R;
 "3/4 MILE", ClearviewHwy-5-W-R;
 Table of widths and spaces

17.9	S	O	U	T	H	N	12.4		
10.9	4.0	11.2	3.6	9.3	2.8	8.7	2.9	9.2	24.5
4.0	11.2	3.5	8.9	2.3	8.7	2.9	9.2	17.9	
35.0	51.0	24.0	41.0	35.0					
17.1	C	O	N	11.1	3.3	w	a	y	12.4
13.1	3.1	12.4	4.4	11.1	3.3	18.6	2.3	11.9	2.3
13.7	A	v	e	11.9	17.1				
15.2	1.4	12.2	2.5						
3/4	M	I	L	E					
23.6	11.3	9.1	3.4	2.0	3.4	5.9	2.6	6.3	59.2

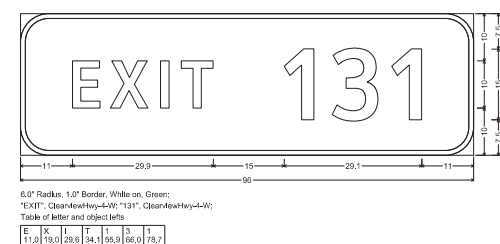
SHEET NO. 2 OF 54 SIGN NO. 1



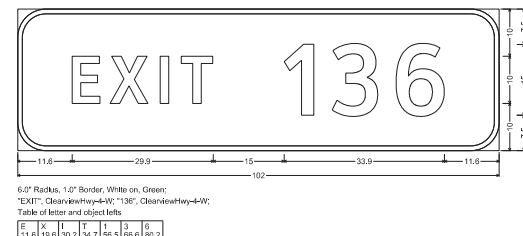
12.0" Radius, 2.0" Border, White on, Green;
 "Glasscock Rd", ClearviewHwy-5-W-R;
 "Stewart Rd", ClearviewHwy-5-W-R;
 "EXIT", ClearviewHwy-5-W-R; "137", ClearviewHwy-5-W-R;
 Table of letter and object lefts

G	I	a	s	c	o	c	k	R	d
17.7	33.0	39.6	51.8	62.6	74.0	85.6	99.1	111.2	133.5
S	t	e	w	a	r	t	R	d	
29.6	41.5	50.8	62.9	80.3	93.7	101.5	121.5	134.6	
E	X	I	T	1	3	7			
47.1	55.0	65.8	70.2	92.5	103.0	116.4			

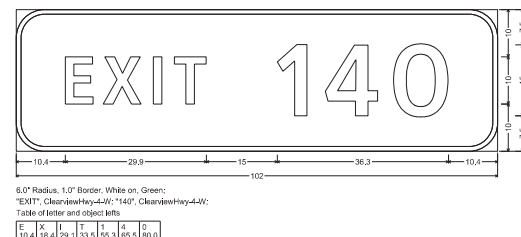
SHEET NO. 4 OF 54 SIGN NO. 1



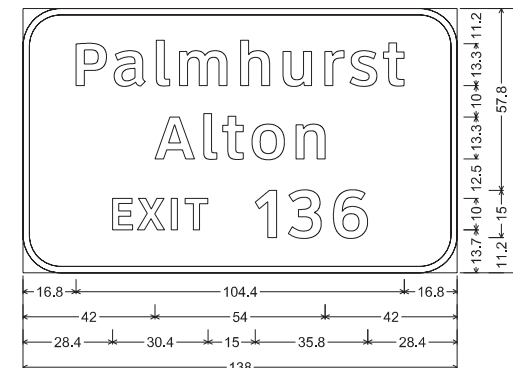
SHEET NO. 1 OF 54 SIGN NO. 1



SHEET NO. 2 OF 54 SIGN NO. 1



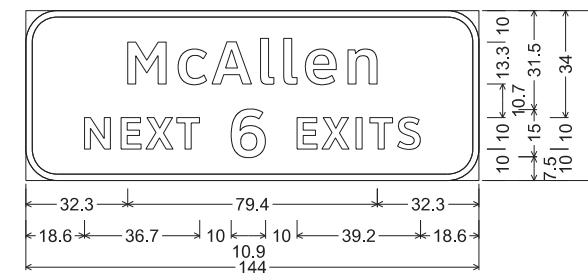
SHEET NO. 3 OF 54 SIGN NO. 1



12.0" Radius, 2.0" Border, White on, Green;
 "Palmhurst", ClearviewHwy-5-W-R;
 "Alton", ClearviewHwy-5-W-R; "EXIT", ClearviewHwy-5-W-R;
 "136", ClearviewHwy-5-W-R;
 Table of letter and object lefts

P	a	l	m	h	u	r	s	t	
16.8	29.0	42.4	49.8	69.1	82.6	95.9	103.9	114.5	
A	l	t	o	n					
42.0	57.4	63.4	72.8	86.8					
E	X	I	T	1	3	6			
28.4	36.3	47.1	51.5	73.8	84.3	98.6			

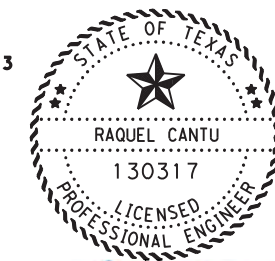
SHEET NO. 2 OF 54 SIGN NO. 2



10.0" Radius, 2.0" Border, White on, Green;
 "McAllen", ClearviewHwy-5-W-R;
 "NEXT", ClearviewHwy-5-W-R;
 "6", ClearviewHwy-5-W-R;
 "EXITS", ClearviewHwy-5-W-R;
 Table of letter and object lefts

M	c	A	I	I	e	n
32.3	48.4	59.2	74.6	82.0	88.8	102.4
N	E	X	T	6		
18.6	30.2	38.1	48.0	65.3		
E	X	I	T	S		
86.2	94.1	104.9	109.3	118.1		

SHEET NO. 2 OF 54 SIGN NO. 3



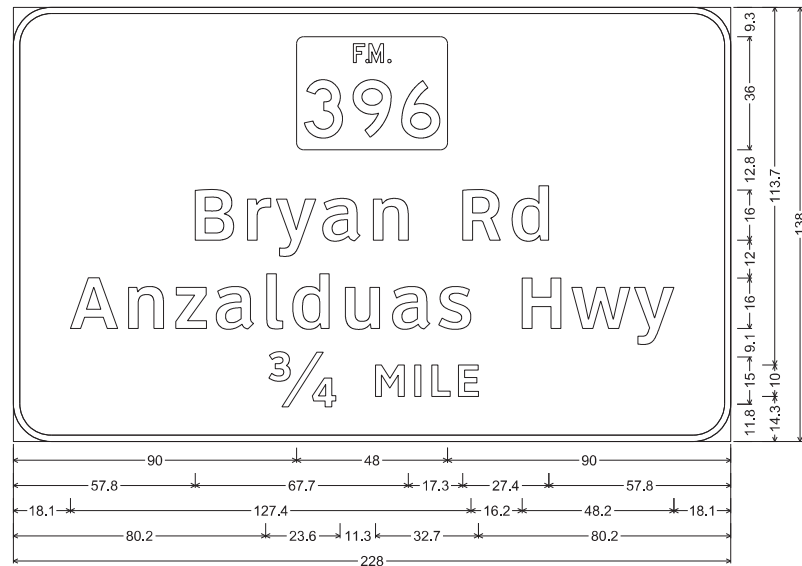
Raquel Cantu 11.05.20

TEXAS DEPARTMENT OF TRANSPORTATION
 IH-2
 LARGE SIGN DETAIL SHEETS

© 2020 SHEET 1 OF 13

DN:	LSJ	DRAWING	DATE	FED. PROJ. NO.	STATE	FEDERAL PROJECT NO.	SHEET NO.
CK DN:	GV	ORIGINAL	SEP. 2020		TEXAS		86
DW:	LSJ			STATE DIST. NO.	COUNTY	CONTROL NO.	SECTION NO.
CK DW:	GV			PHARR	HIDALGO	6353	00 001

ETC. ETC.

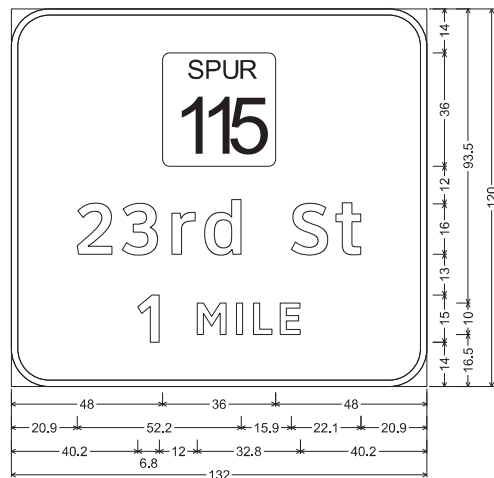


FM 396 Bryan Rd Anzalduas Hwy exit 3-4 mile;
 12.0" Radius, 2.0" Border, White on, Green;
 State Highway 396 3; "Bryan Rd", ClearviewHwy-5-W-R; "Anzalduas Hwy", ClearviewHwy-5-W-R;
 "3/4 MILE", ClearviewHwy-5-W-R;

Table of widths and spaces

90.0	48.0	90.0															
B	r	a	n	R	d												
57.8	12.2	4.5	7.4	1.7	12.5	2.2	11.9	4.2	11.1	17.3	11.9	3.8	11.7	57.8			
A	n	z	a	l	d	u	a	s									
18.1	15.2	3.3	11.1	3.9	9.9	3.0	11.9	4.2	5.1	3.1	11.6	5.1	10.9	4.1	11.9	2.8	10.3
H	w	y															
16.2	12.3	3.5	18.6	1.3	12.5	18.1											
3/4	M	I	L	E													
80.2	23.6	11.3	9.1	3.4	2.0	3.4	5.9	2.6	6.3	80.2							

SHEET NO. 5 OF 54 SIGN NO. 1

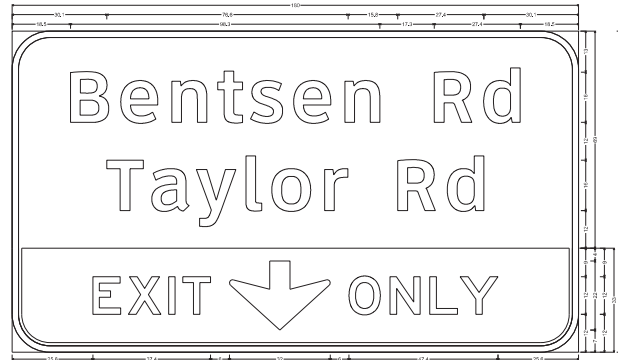


Sequence Sign;
 12.0" Radius, 2.0" Border, White on, Green;
 State Highway 115 M1-6S3; "23rd St", ClearviewHwy-5-W-R;
 "1", ClearviewHwy-5-W-R; "MILE", ClearviewHwy-5-W-R;

Table of letter and object lefts

48.0					
2	3	r	d	S	t
20.9	35.3	51.0	61.4	89.0	103.2
1	M	I	L	E	
40.2	59.0	71.5	77.0	85.4	

SHEET NO. 6 OF 54 SIGN NO. 1



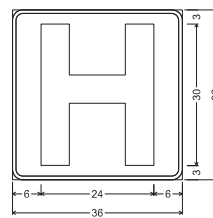
12.0" Radius, 2.0" Border, White on, Green;
 "Bentsen Rd", ClearviewHwy-5-W-R; "Taylor Rd", ClearviewHwy-5-W-R;

E11-1;
 1.0" Inner border Green, 12.0" Radius, 2.0" Outer border, White on, Yellow;
 "EXIT" Black, E: Down Arrow 22 - 22.0" 270° Black; "ONLY" Black, E;

Table of letter and object lefts

B	e	n	t	s	e	n	R	d
18.5	34.5	50.8	65.3	75.7	89.5	105.7	134.1	149.8
T	a	y	l	o	r	R	d	
30.1	44.4	58.5	74.3	82.5	99.3	122.5	138.3	
E	X	I	T	O	N	L	Y	
25.6	36.9	49.7	54.2	69.0	107.0	120.1	132.7	142.4

SHEET NO. 7 OF 54 SIGN NO. 1

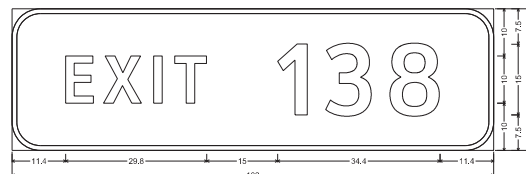


hospital;
 2.3" Radius, 0.8" Border, White on, Blue;
 "H", E ModP;

Table of letter and object lefts

H
6.0

SHEET NO. 5 OF 54 SIGN NO. 1
 SHEET NO. 27 OF 54 SIGN NO. 2

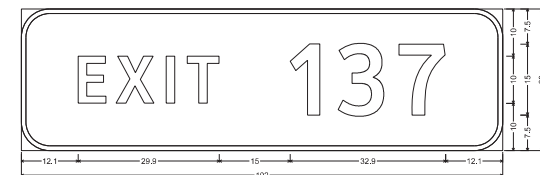


6.0" Radius, 1.0" Border, White on, Green;
 "EXIT", ClearviewHwy-4-W; "138", ClearviewHwy-4-W;

Table of letter and object lefts

E	X	I	T	1	3	8
11.4	19.4	30.0	34.5	35.2	68.4	80.1

SHEET NO. 7 OF 54 SIGN NO. 1

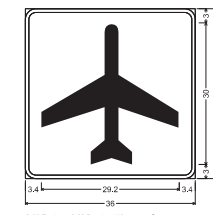


6.0" Radius, 1.0" Border, White on, Green;
 "EXIT", ClearviewHwy-4-W; "137", ClearviewHwy-4-W;

Table of letter and object lefts

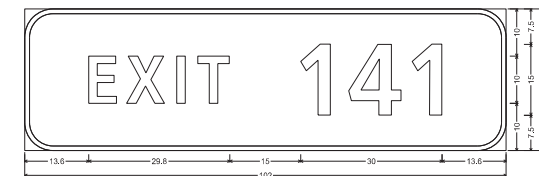
E	X	I	T	1	3	7
12.1	20.1	30.7	35.2	37.0	67.1	80.0

SHEET NO. 5 OF 54 SIGN NO. 1



2.3" Radius, 0.8" Border, White on, Green;
 Symbol RAD10;

SHEET NO. 6 OF 54 SIGN NO. 1

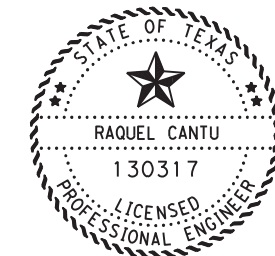


6.0" Radius, 1.0" Border, White on, Green;
 "EXIT", ClearviewHwy-4-W; "141", ClearviewHwy-4-W;

Table of letter and object lefts

E	X	I	T	1	4	1
13.6	21.6	32.3	36.7	38.4	88.6	92.1

SHEET NO. 6 OF 54 SIGN NO. 1



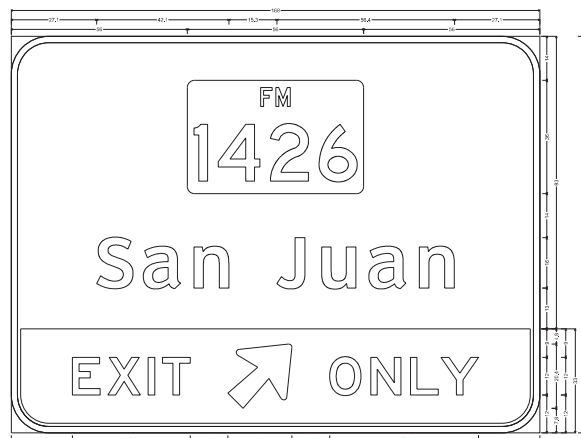
Raquel Cantu 11.05.20

TEXAS DEPARTMENT OF TRANSPORTATION
 IH-2
 LARGE SIGN DETAIL SHEETS

© 2020 SHEET 2 OF 13

DN:	LSJ	DRAWING	DATE	FED. PROJ. NO.	STATE	FEDERAL PROJECT NO.	SHEET NO.
CK DN:	GV	ORIGINAL	SEP. 2020		TEXAS		87
DW:	LSJ			STATE DIST. NO.	COUNTY	CONTR. NO.	SECTION NO.
CK DW:	GV			PHARR	HIDALGO,	6353	00 001

IGHWAY NO. IH-2, ETC.
 ETC.



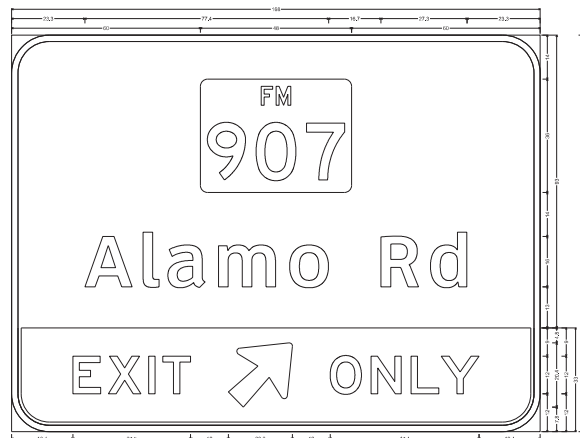
E11-1aR:
12.0" Radius, 2.0" Border, White on, Green;
State Highway 1426 M1-6F4; "San Juan", ClearviewHwy-5-W-R;

E11-1e:
1.0" Inner border Green, 12.0" Radius, 2.0" Outer border, White on, Yellow;
"EXIT" Black, E; Arrow B-3 - 25.0" 45' Black; "ONLY" Black, E;

Table of letter and object lefts

S	a	n	J	u	a	n		
27.1	42.0	58.1	84.5	98.6	113.6	129.7		
E	X	I	T	O	N	L	Y	
18.4	30.7	43.5	48.1	68.9	101.2	114.3	126.9	136.6

SHEET NO. 9 OF 54 SIGN NO. 1



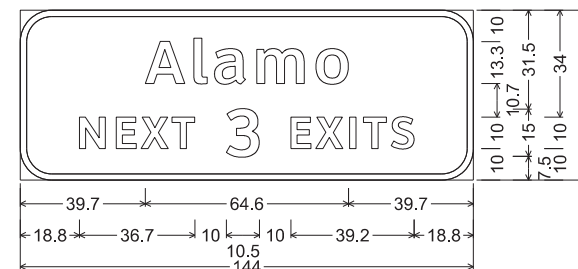
E11-1aR:
12.0" Radius, 2.0" Border, White on, Green;
State Highway 907 M1-6F3; "Alamo Rd", ClearviewHwy-5-W-R;

E11-1e:
1.0" Inner border Green, 12.0" Radius, 2.0" Outer border, White on, Yellow;
"EXIT" Black, E; Arrow B-3 - 25.0" 45' Black; "ONLY" Black, E;

Table of letter and object lefts

A	l	a	m	o	R	d		
23.3	41.6	49.6	65.7	88.3	117.4	133.1		
E	X	I	T	O	N	L	Y	
18.4	30.7	43.5	48.1	68.9	101.2	114.3	126.9	136.6

SHEET NO. 11 OF 54 SIGN NO. 2

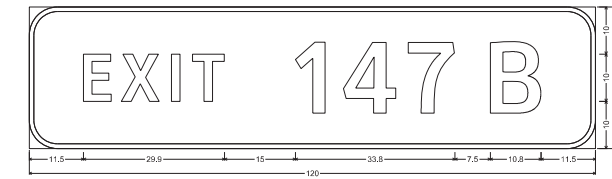


10.0" Radius, 2.0" Border, White on, Green;
"Alamo", ClearviewHwy-5-W-R;
"NEXT", ClearviewHwy-5-W-R;
"3", ClearviewHwy-5-W-R;
"EXITS", ClearviewHwy-5-W-R;

Table of letter and object lefts

A	l	a	m	o
39.7	55.2	61.7	75.1	94.0
N	E	X	T	3
18.8	30.4	38.4	48.2	65.5
E	X	I	T	S
86.0	93.9	104.7	109.1	117.9

SHEET NO. 14 OF 54 SIGN NO. 1

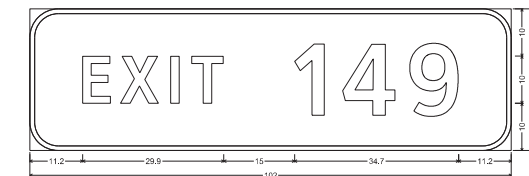


6.0" Radius, 1.0" Border, White on, Green;
"EXIT", ClearviewHwy-4-W; "147", ClearviewHwy-4-W; "B", ClearviewHwy-4-W;

Table of letter and object lefts

E	X	I	T	1	4	7	B
11.5	19.5	30.7	34.6	59.4	66.6	80.3	87.7

SHEET NO. 9 OF 54 SIGN NO. 1

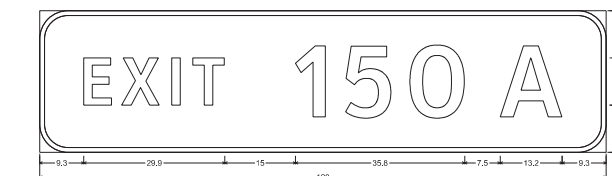


6.0" Radius, 1.0" Border, White on, Green;
"EXIT", ClearviewHwy-4-W; "149", ClearviewHwy-4-W;

Table of letter and object lefts

E	X	I	T	1	4	9
11.5	19.5	30.7	34.6	59.4	66.6	80.3

SHEET NO. 10 OF 54 SIGN NO. 1



6.0" Radius, 1.0" Border, White on, Green;
"EXIT", ClearviewHwy-4-W; "150", ClearviewHwy-4-W; "A", ClearviewHwy-4-W;

Table of letter and object lefts

E	X	I	T	1	5	0	A
11.5	19.5	30.7	34.6	54.3	64.8	78.4	87.5

SHEET NO. 11 OF 54 SIGN NO. 2
SHEET NO. 12 OF 54 SIGN NO. 1



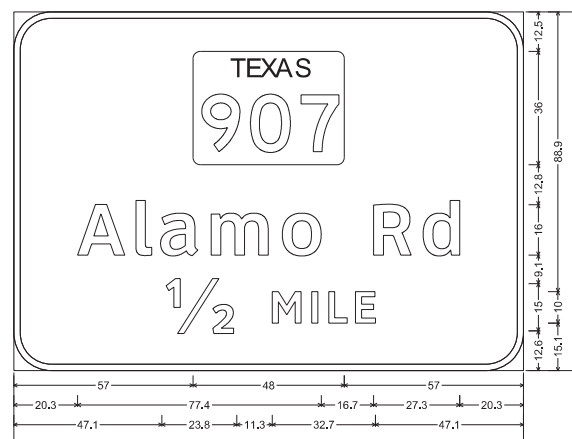
E11-1aR:
12.0" Radius, 2.0" Border, White on, Green;
"Cesar Chavez", ClearviewHwy-5-W-R; "Road", ClearviewHwy-5-W-R;

E11-1e:
1.0" Inner border Green, 12.0" Radius, 2.0" Outer border, White on, Yellow;
"EXIT" Black, E; Arrow B-3 - 25.0" 45' Black; "ONLY" Black, E;

Table of letter and object lefts

C	e	s	a	r	C	h	a	v	e	z
20.5	36.7	51.5	64.9	81.0	103.6	120.4	135.6	149.8	164.5	179.6
R	o	a	d							
75.7	91.4	107.2	122.7							
E	X	I	T	O	N	L	Y			
40.4	51.7	64.5	69.1	89.9	122.2	135.3	147.9	157.6		

SHEET NO. 10 OF 54 SIGN NO. 1

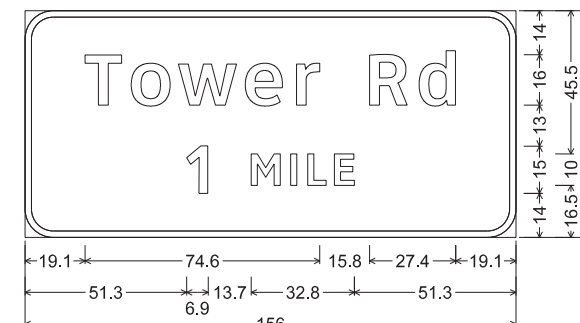


12.0" Radius, 2.0" Border, White on, Green;
State Highway 907 M1-6T3; "Alamo Rd", ClearviewHwy-5-W-R;
"1/2 MILE", ClearviewHwy-5-W-R;

Table of widths and spaces

A	l	a	m	o	R	d								
20.3	15.1	3.4	5.1	2.7	12.0	4.1	18.1	4.5	12.4	16.7	11.9	3.8	11.6	20.3
1/2	M	I	L	E										
47.1	23.8	11.3	9.1	3.3	2.1	3.4	5.8	2.6	6.4	47.1				

SHEET NO. 12 OF 54 SIGN NO. 1

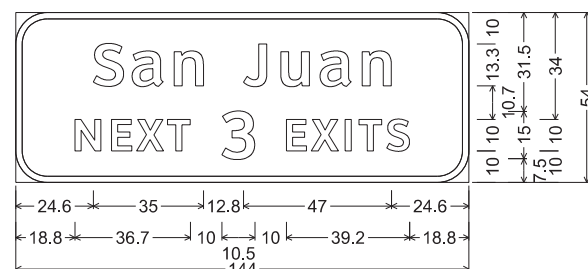


I Road exit 1/2 mile;
9.0" Radius, 2.0" Border, White on, Green;
"Tower Rd", ClearviewHwy-5-W-R;
"1 MILE", ClearviewHwy-5-W-R;

Table of letter and object lefts

T	o	w	e	r	R	d
19.1	33.8	48.8	70.0	86.3	109.5	125.2
1	M	I	L	E		
51.3	71.9	84.4	89.8	98.3		

SHEET NO. 14 OF 54 SIGN NO. 2

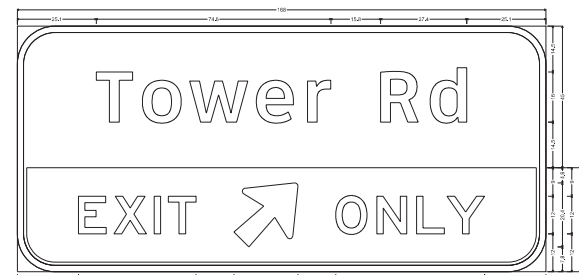


10.0" Radius, 2.0" Border, White on, Green;
"San Juan", ClearviewHwy-5-W-R;
"NEXT", ClearviewHwy-5-W-R;
"3", ClearviewHwy-5-W-R;
"EXITS", ClearviewHwy-5-W-R;

Table of letter and object lefts

S	a	n	J	u	a	n
24.6	37.0	50.4	72.4	84.2	96.7	110.1
N	E	X	T	3		
18.8	30.4	38.4	48.2	65.5		
E	X	I	T	S		
86.0	93.9	104.7	109.1	117.9		

SHEET NO. 11 OF 54 SIGN NO. 1



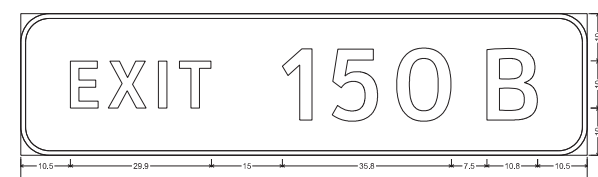
E11-1aR:
12.0" Radius, 2.0" Border, White on, Green;
"Tower Rd", ClearviewHwy-5-W-R;

E11-1e:
1.0" Inner border Green, 12.0" Radius, 2.0" Outer border, White on, Yellow;
"EXIT" Black, E; Arrow B-3 - 25.0" 45' Black; "ONLY" Black, E;

Table of letter and object lefts

T	o	w	e	r	R	d		
25.1	39.8	54.8	76.0	92.3	115.5	131.2		
E	X	I	T	O	N	L	Y	
19.4	30.7	43.5	48.1	68.9	101.2	114.3	126.9	136.6

SHEET NO. 13 OF 54 SIGN NO. 1

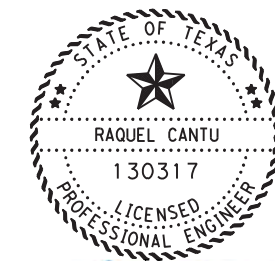


6.0" Radius, 1.0" Border, White on, Green;
"EXIT", ClearviewHwy-4-W; "150", ClearviewHwy-4-W; "B", ClearviewHwy-4-W;

Table of letter and object lefts

E	X	I	T	1	5	0	B
10.5	18.5	29.1	33.0	58.4	66.0	79.6	88.7

SHEET NO. 13 OF 54 SIGN NO. 1
SHEET NO. 14 OF 54 SIGN NO. 2



Raquel Cantu 11.05.20

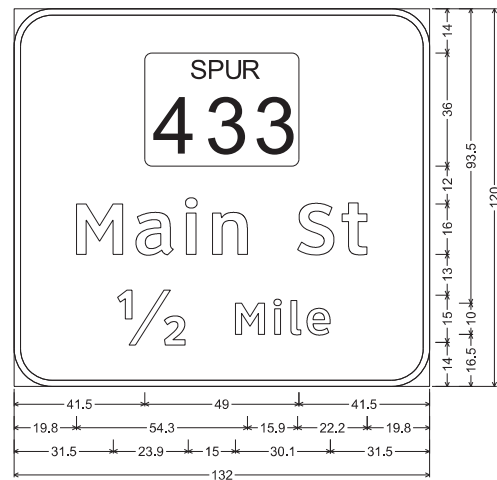
TEXAS DEPARTMENT OF TRANSPORTATION

IH-2
LARGE SIGN DETAIL SHEETS

© 2020 SHEET 3 OF 13

DN:	LSJ	DRAWING:	ORIGINAL	DATE:	SEP. 2020	FED. DIST. NO.:	STATE:	FEDERAL PROJECT NO.:	SHEET NO.:
CK DN:	GV						TEXAS		88
DW:	LSJ					STATE DIST. NO.:	COUNTY:	CONTROL NO.:	SECTION NO.:
CK DW:	GV					PHARR	HIDALGO,	6353	00 001

ETC. ETC.

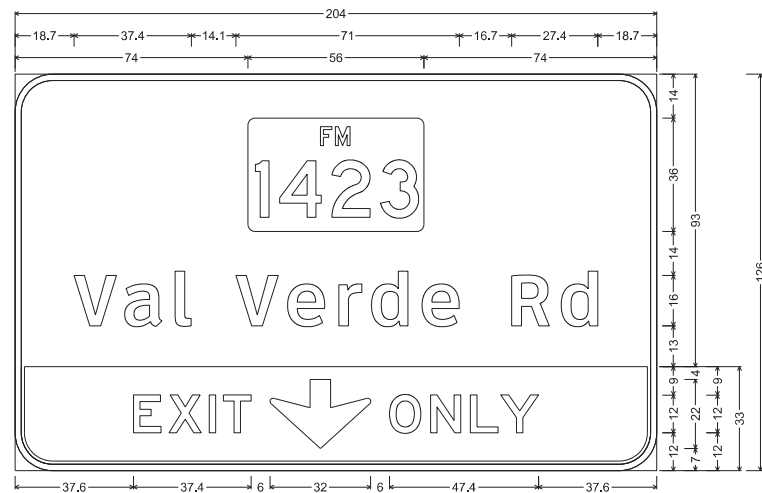


Sequence Sign:
12.0" Radius, 2.0" Border, White on, Green;
State Highway 433 M1-6S3; "Main St", ClearviewHwy-5-W-R;
"1/2", ClearviewHwy-5-W-R; "Mile", ClearviewHwy-5-W-R;

Table of letter and object lefts

41.5
M a i n S t
19.8 38.7 54.4 63.0 90.0 104.2
1/2 M i l e
31.5 70.4 82.6 87.9 93.1

SHEET NO. 14 OF 54 SIGN NO. 3



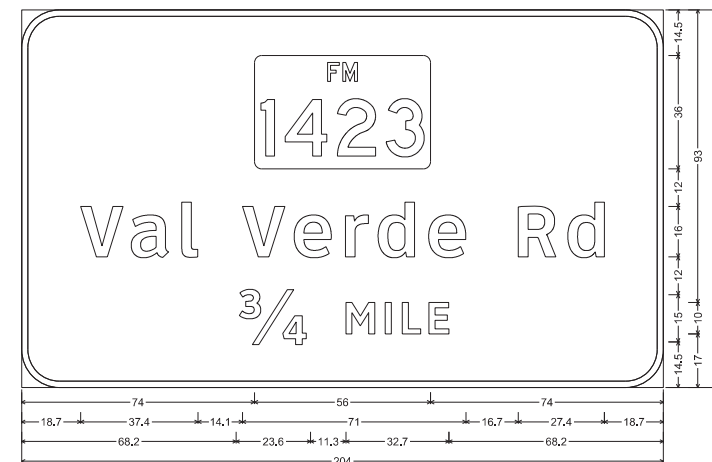
12.0" Radius, 2.0" Border, White on, Green;
State Highway 1423 M1-6F4; "Val Verde Rd", ClearviewHwy-5-W-R;

E11-1:
1.0" Inner border Green, 12.0" Radius, 2.0" Outer border, White on, Yellow;
"EXIT" Black, E: Down Arrow 22 - 22.0" 270° Black; "ONLY" Black, E;

Table of letter and object lefts

74.0
V a l V e r d e R d
18.7 34.8 50.9 70.2 86.6 102.9 113.3 129.4 157.9 173.6
E X I T
37.6 48.9 61.7 66.2 81.0 119.0 132.1 144.7 154.4

SHEET NO. 15 OF 54 SIGN NO. 1

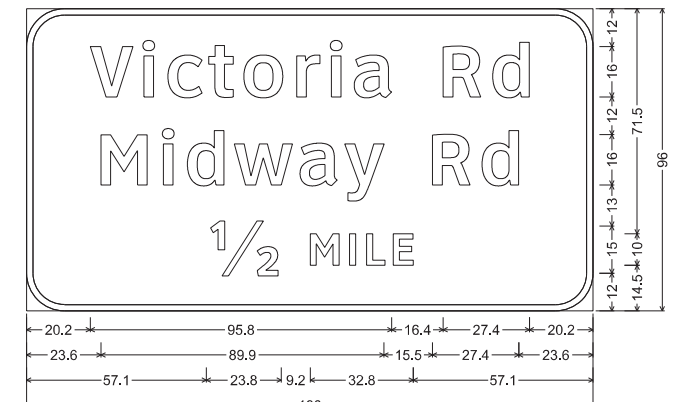


12.0" Radius, 2.0" Border, White on, Green;
State Highway 1423 M1-6F4; "Val Verde Rd", ClearviewHwy-5-W-R; "3/4 MILE", ClearviewHwy-5-W-R;

Table of widths and spaces

74.0
V a l V e r d e R d
18.7 34.8 50.9 70.2 86.6 102.9 113.3 129.4 157.9 173.6
3/4 M i l e
68.2 23.6 11.3 9.1 3.4 2.0 3.4 5.9 2.6 6.3 68.2

SHEET NO. 16 OF 54 SIGN NO. 1

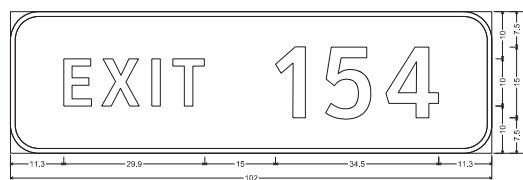


12.0" Radius, 2.0" Border, White on, Green;
"Victoria Rd", ClearviewHwy-5-W-R; "Midway Rd", ClearviewHwy-5-W-R;
"1/2 MILE", ClearviewHwy-5-W-R;

Table of widths and spaces

20.2
V i c t o r i a R d
13.8 2.9 3.8 4.2 10.9 2.0 8.0 3.2 12.4 4.4 7.5 3.2 3.8 3.8 11.9
M i d w a y R d
14.6 4.9 3.8 4.2 11.6 3.3 18.6 2.3 11.9 2.3 12.4 15.5 11.9 3.8 11.7 23.6
1/2 M i l e
23.8 9.2 9.2 3.3 2.0 3.4 5.9 2.6 6.4 57.1

SHEET NO. 17 OF 54 SIGN NO. 1

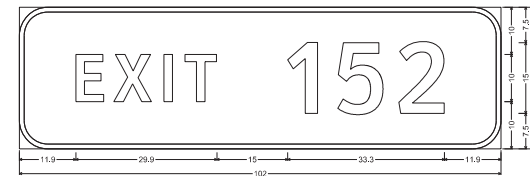


6.0" Radius, 1.0" Border, White on, Green;
"EXIT", ClearviewHwy-5-W; "154", ClearviewHwy-5-W;

Table of letter and object lefts

11.3
E X I T
19.3 20.9 34.4 36.2 66.7 75.5

SHEET NO. 14 OF 54 SIGN NO. 3
SHEET NO. 18 OF 54 SIGN NO. 1

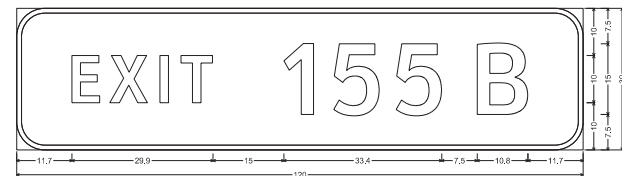


6.0" Radius, 1.0" Border, White on, Green;
"EXIT", ClearviewHwy-5-W; "152", ClearviewHwy-5-W;

Table of letter and object lefts

11.3
E X I T
20.0 30.6 35.1 58.8 67.4 66.4

SHEET NO. 15 OF 54 SIGN NO. 1
SHEET NO. 16 OF 54 SIGN NO. 1

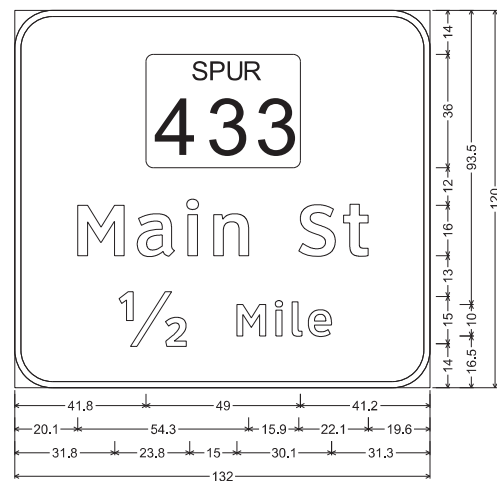


6.0" Radius, 1.0" Border, White on, Green;
"EXIT", ClearviewHwy-5-W; "155", ClearviewHwy-5-W; "B", ClearviewHwy-5-W;

Table of letter and object lefts

11.7
E X I T
16.7 30.3 34.8 58.6 67.2 66.4 67.5

SHEET NO. 17 OF 54 SIGN NO. 1
SHEET NO. 21 OF 54 SIGN NO. 2

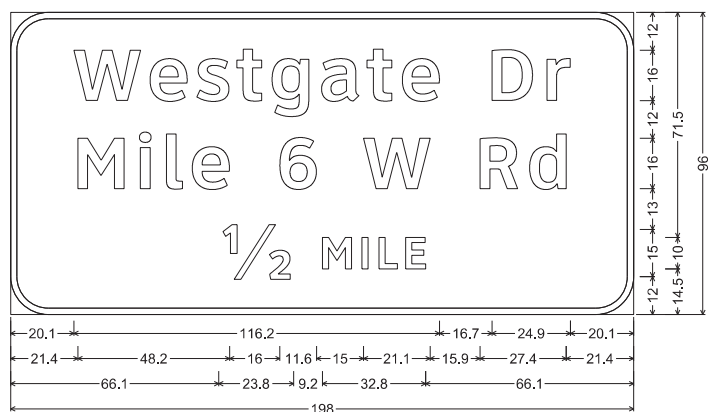


Sequence Sign:
12.0" Radius, 2.0" Border, White on, Green;
State Highway 433 M1-6S3; "Main St", ClearviewHwy-5-W-R;
"1/2", ClearviewHwy-5-W-R; "Mile", ClearviewHwy-5-W-R;

Table of letter and object lefts

41.8
M a i n S t
20.1 39.0 54.7 63.3 90.3 104.5
1/2 M i l e
31.8 70.6 82.8 88.2 93.3

SHEET NO. 18 OF 54 SIGN NO. 1

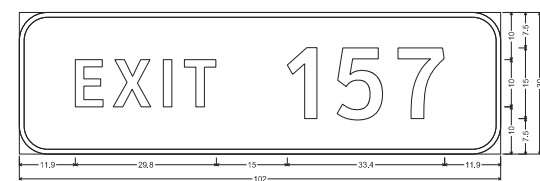


12.0" Radius, 2.0" Border, White on, Green;
"Westgate Dr", ClearviewHwy-5-W-R; "Mile 6 W Rd", ClearviewHwy-5-W-R;
"1/2 MILE", ClearviewHwy-5-W-R;

Table of widths and spaces

20.1
W e s t g a t e D r
21.1 3.1 11.9 2.9 10.3 2.5 7.9 3.3 11.7 4.0 12.0 2.5 7.9 3.3 11.8
M i l e 6 W R d
14.6 4.9 3.8 4.8 5.2 3.0 11.9 16.0 15.0 21.1 15.9 11.9 3.8 21.4
1/2 M i l e
23.8 9.2 9.2 3.3 2.0 3.4 5.9 2.6 6.4 66.1

SHEET NO. 18 OF 54 SIGN NO. 2

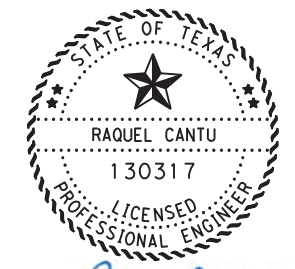


6.0" Radius, 1.0" Border, White on, Green;
"EXIT", ClearviewHwy-5-W; "157", ClearviewHwy-5-W;

Table of letter and object lefts

11.9
E X I T
16.9 30.3 34.8 58.6 67.2 66.4 67.5

SHEET NO. 18 OF 54 SIGN NO. 2
SHEET NO. 23 OF 54 SIGN NO. 2



Raquel Cantu 11.05.20

TEXAS DEPARTMENT OF TRANSPORTATION
IH-2
LARGE SIGN DETAIL SHEETS

© 2020 SHEET 4 OF 13

DN: LSJ	DRAWING ORIGINAL	DATE SEP. 2020	FED. PROJ. NO.	STATE TEXAS	FEDERAL PROJECT NO.	SHEET NO. 89
CK DN: GY	DW: LSJ	CK DW: GY	STATE DIST. NO. PHARR	COUNTY HIDALGO	CONTROL NO. 6353	SECTION NO. 00
						JOB NO. 001

ETC. ETC.



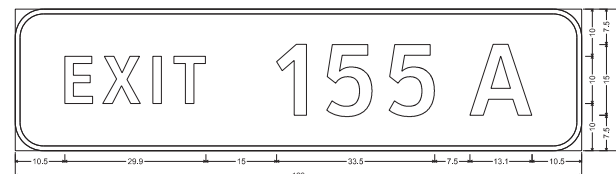
12.0" Radius, 2.0" Border, White on, Green;
State Highway 493 M1-6F3; "Salinas Blvd", ClearviewHwy-5-W-R;

E11-1;
1.0" Inner border Green, 12.0" Radius, 2.0" Outer border, White on, Yellow;
"EXIT" Black, E; Down Arrow 22 - 22.0" 270° Black; "ONLY" Black, E;

Table of letter and object lefts

71.5												
S	a	l	l	n	a	s	B	l	v	d		
18.8	33.6	49.7	58.2	66.8	82.0	96.6	123.2	139.8	146.8	161.5		
E	X	I	T	O	N	L	Y					
31.6	42.9	55.7	60.2	75.0	113.0	126.1	138.7	148.4				

SHEET NO. 19 OF 54 SIGN NO. 1

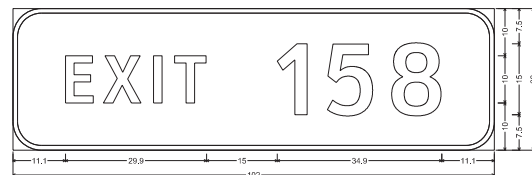


6.0" Radius, 1.0" Border, White on, Green;
"EXIT", ClearviewHwy-4-W; "155", ClearviewHwy-4-W; "A", ClearviewHwy-4-W;

Table of letter and object lefts

71.5									
E	X	I	T	1	5	A			
10.5	29.5	29.1	33.6	65.4	66.0	79.2	79.2		

SHEET NO. 19 OF 54 SIGN NO. 1
SHEET NO. 20 OF 54 SIGN NO. 1

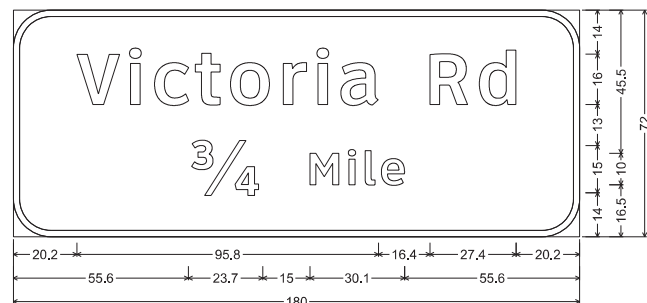


6.0" Radius, 1.0" Border, White on, Green;
"EXIT", ClearviewHwy-4-W; "158", ClearviewHwy-4-W;

Table of letter and object lefts

71.5										
E	X	I	T	1	5	8				
11.1	19.2	29.8	34.2	56.0	66.6	80.3				

SHEET NO. 19 OF 54 SIGN NO. 2
SHEET NO. 24 OF 54 SIGN NO. 2
SHEET NO. 25 OF 54 SIGN NO. 1
SHEET NO. 27 OF 54 SIGN NO. 1



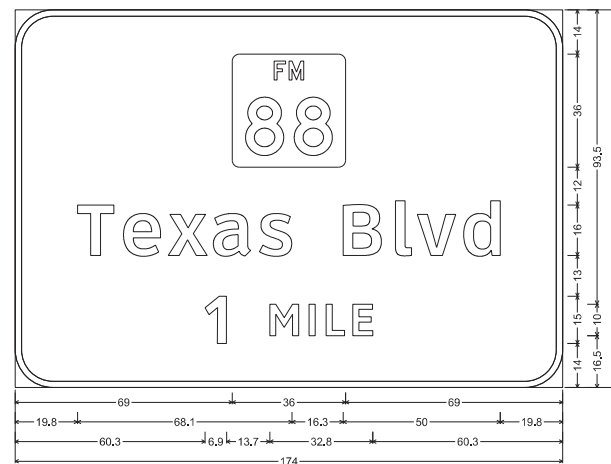
Sequence Sign:
12.0" Radius, 2.0" Border, White on, Green;
"Victoria Rd", ClearviewHwy-5-W-R; "3/4", ClearviewHwy-5-W-R;

"Mile", ClearviewHwy-5-W-R;

Table of letter and object lefts

V	i	c	t	o	r	i	s	R	d		
20.2	36.9	44.9	57.8	69.0	85.8	96.5	104.1	132.4	148.1		
3/4	M	i	l	e							
55.6	94.3	106.5	111.8	117.0							

SHEET NO. 21 OF 54 SIGN NO. 2

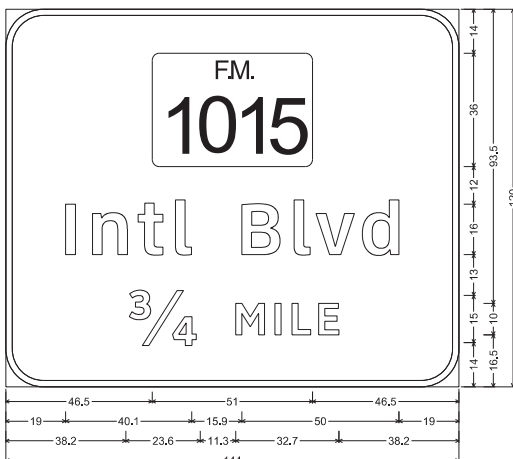


12.0" Radius, 2.0" Border, White on, Green;
State Highway 88 M1-6F2; "Texas Blvd", ClearviewHwy-5-W-R; "1 MILE", ClearviewHwy-5-W-R;

Table of widths and spaces

69.0																			
T	a	s	B	l	v	d													
19.8	11.7	2.9	11.9	2.3	12.4	2.0	11.9	2.7	10.3	16.3	B	12.2	4.5	5.1	1.8	12.2	2.5	11.7	19.8
1	1	M	1	L	E														
60.3	6.9	13.7	9.2	3.3	2.0	3.4	5.9	2.6	6.4	60.3									

SHEET NO. 19 OF 54 SIGN NO. 2



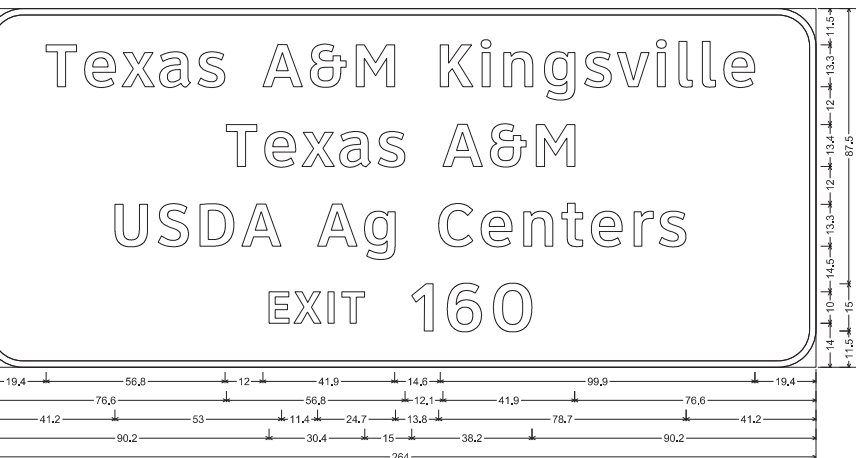
12.0" Radius, 2.0" Border, White on, Green;
State Highway 1015 4; "Intl Blvd", ClearviewHwy-5-W-R;

"3/4 MILE", ClearviewHwy-5-W-R;

Table of letter and object lefts

46.5												
I	n	t	l	B	l	v	d					
19.0	27.5	42.1	53.9	75.0	91.6	98.6	113.3					
3/4	M	i	L	E								
38.2	73.1	85.6	91.0	99.5								

SHEET NO. 23 OF 54 SIGN NO. 1

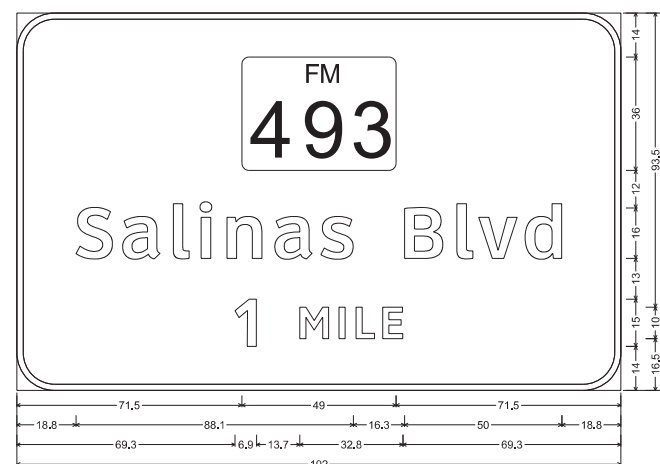


12.0" Radius, 2.0" Border, White on, Green;
"Texas A&M Kingsville", ClearviewHwy-5-W-R; "Texas A&M", ClearviewHwy-5-W-R; "USDA Ag Centers", ClearviewHwy-5-W-R; "EXIT", ClearviewHwy-5-W-R;

Table of letter and object lefts

T	e	x	a	s	A	&	M	K	i	n	g	s	v	i	l	e											
19.4	31.6	43.4	55.4	67.6	82.2	103.3	117.9	144.7	157.6	164.8	177.7	190.5	200.9	213.4	220.5	227.9	234.7										
T	e	x	a	s	A	&	M																				
76.6	88.8	100.7	112.6	124.8	145.5	160.5	175.2																				
U	s	D	A	A	g	C	e	n	t	e	r	s															
41.2	54.9	68.3	81.5	105.6	120.5	144.1	157.6	171.2	183.3	192.6	206.2	214.2															
E	X	I	T	1	6	0																					
90.2	98.1	108.9	113.3	135.6	146.9	161.5																					

SHEET NO. 22 OF 54 SIGN NO. 1

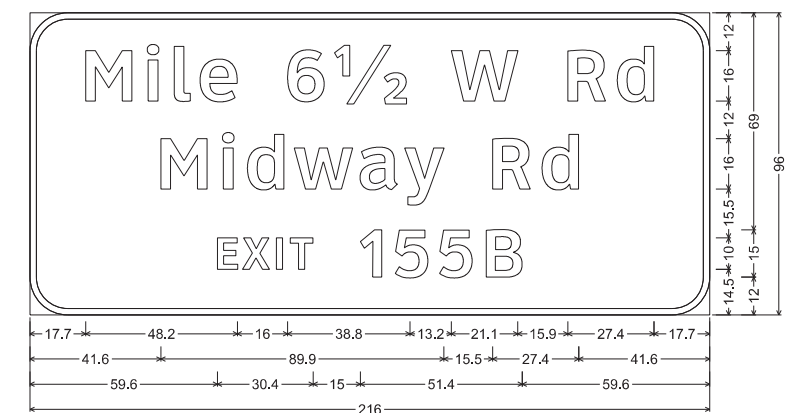


12.0" Radius, 2.0" Border, White on, Green;
State Highway 493 M1-6F3; "Salinas Blvd", ClearviewHwy-5-W-R; "1 MILE", ClearviewHwy-5-W-R;

Table of widths and spaces

71.5																						
S	a	l	l	n	a	s	B	l	v	d												
18.8	11.7	3.1	12.0	4.1	5.2	3.3	3.8	4.8	11.1	4.1	11.9	2.7	10.3	16.3	12.2	4.4	5.2	1.8	12.2	2.5	11.7	18.8
1	1	M	1	L	E																	
69.3	6.9	13.7	9.2	3.3	2.0	3.4	5.9	2.6	6.4	69.3												

SHEET NO. 20 OF 54 SIGN NO. 1

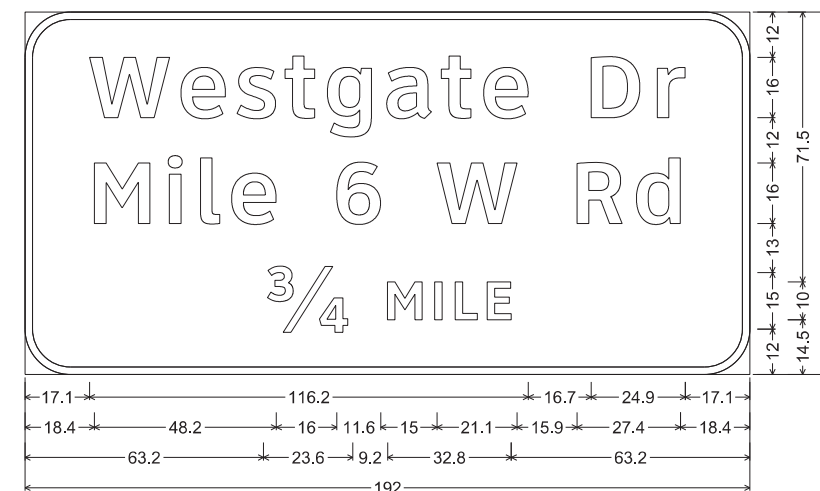


12.0" Radius, 2.0" Border, White on, Green;
"Mile 6 1/2 W Rd", ClearviewHwy-5-W-R; "Midway Rd", ClearviewHwy-5-W-R;
"EXIT", ClearviewHwy-5-W-R; "155B", ClearviewHwy-5-W-R;

Table of letter and object lefts

M	i	l	e	6	1/2	W	R	d				
17.7	37.2	45.8	54.0	81.9	95.3	133.9	170.9	186.6				
M	i	w	a	y	R	d						
41.6	61.1	69.1	84.0	104.9	119.1	147.0	162.7					
E	X	I	T	1	5	5	B					
59.6	67.5	78.3	82.7	105.0	116.1	130.1	145.0					

SHEET NO. 21 OF 54 SIGN NO. 1

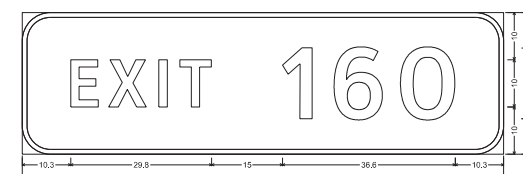


12.0" Radius, 2.0" Border, White on, Green;
"Westgate Dr", ClearviewHwy-5-W-R; "Mile 6 W Rd", ClearviewHwy-5-W-R;
"3/4 MILE", ClearviewHwy-5-W-R;

Table of widths and spaces

17.1	W	21.1	3.1	e	11.9	2.9	s	10.3	2.5	t	7.9	3.3	g	11.7	4.0	a	12.0	2.5	t	7.9	3.3	e	11.8
		D	16.7	r	4.6	7.4	17.1																
18.4	M	14.6	4.9	3.8	4.8	5.2	3.0	e	11.9	16.0	11.6	15.0	21.1	15.9	11.9	3.8	11.7	18.4					
63.2	3/4	23.6	9.2	M	3.3	2.1	3.4	L	5.8	2.6	E	6.4	63.2										

SHEET NO. 23 OF 54 SIGN NO. 2

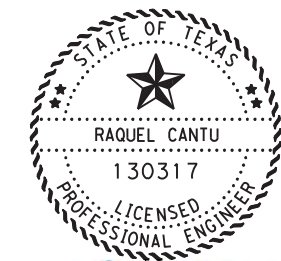


6.0" Radius, 1.0" Border, White on, Green;
"EXIT", ClearviewHwy-4-W; "160", ClearviewHwy-4-W;

Table of letter and object lefts

71.5										
E	X	I	T	1	6	0				
60.3	28.3	28.3	33.4	55.1	66.1	80.1				

SHEET NO. 22 OF 54 SIGN NO. 1
SHEET NO. 23 OF 54 SIGN NO. 1
SHEET NO. 29 OF 54 SIGN NO. 1
SHEET NO. 30 OF 54 SIGN NO. 1



Raquel Cantu 11.05.20

TEXAS DEPARTMENT OF TRANSPORTATION

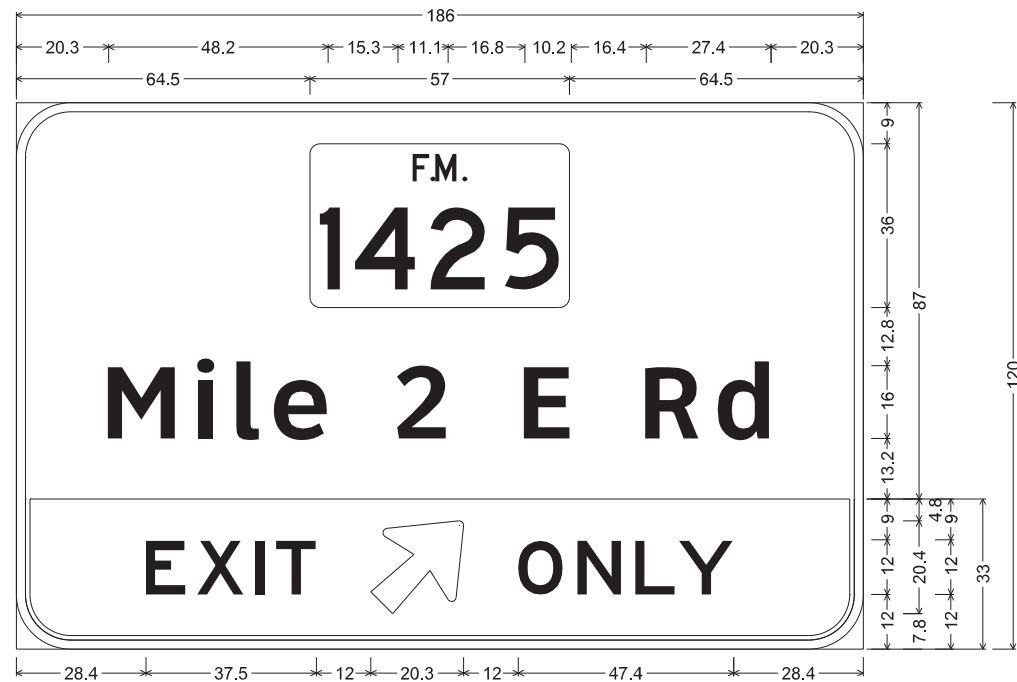
IH-2

LARGE SIGN DETAIL SHEETS

© 2020 SHEET 5 OF 13

DN: LSJ	DRAWING ORIGINAL	DATE SEP. 2020	FED. DIST. NO.	STATE TEXAS	FEDERAL PROJECT NO.	SHEET NO. 90		
CK DN: GY	DW: LSJ	CK DW: GY	STATE DIST. NO. PHARR	COUNTY HIDALGO	CONTROL NO. 6353	SECTION NO. 00	JOB NO. 001	HIGHWAY NO. IH-2,

ETC. ETC.



E11-1aR;

12.0" Radius, 2.0" Border, White on, Green;
State Highway 1425 4; "Mile 2 E Rd", ClearviewHwy-5-W-R;

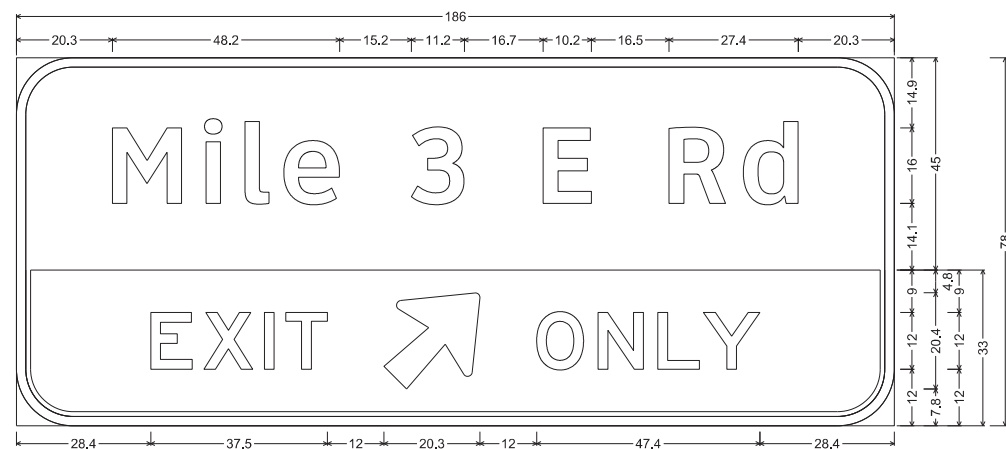
E11-1e;

1.0" Inner border Green, 12.0" Radius, 2.0" Outer border, White on, Yellow;
"EXIT" Black, E; Arrow B-3 - 25.0" 45" Black; "ONLY" Black, E;

Table of letter and object lefts

1425										
64.5										
M	i	l	e	2	E	R	d			
20.3	39.8	48.4	56.6	83.8	111.7	138.3	154.1			
E	X	I	T	↗	O	N	L	Y		
28.4	39.7	52.5	57.1	77.9	110.2	123.3	135.9	145.6		

SHEET NO. 34 OF 54 SIGN NO. 2



E11-1aR;

12.0" Radius, 2.0" Border, White on, Green;
"Mile 3 E Rd", ClearviewHwy-5-W-R;

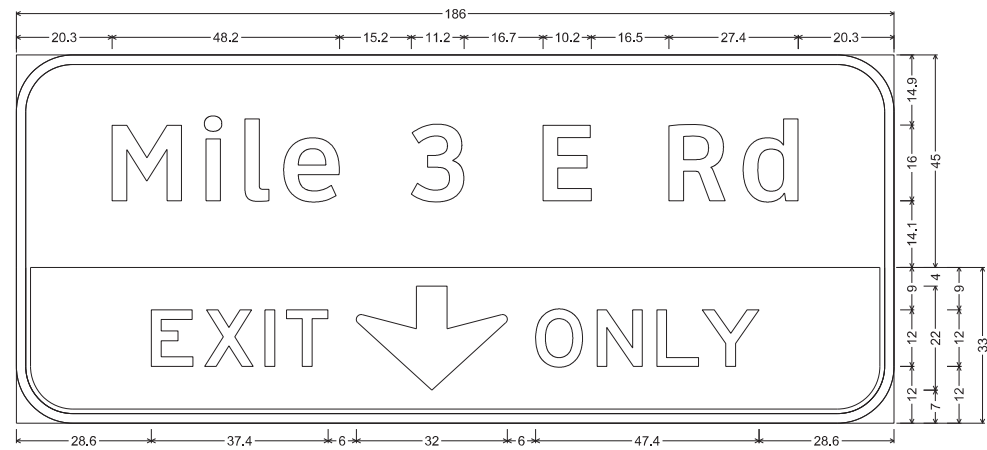
E11-1e;

1.0" Inner border Green, 12.0" Radius, 2.0" Outer border, White on, Yellow;
"EXIT" Black, E; Arrow B-3 - 25.0" 45" Black; "ONLY" Black, E;

Table of letter and object lefts

M	i	l	e	3	E	R	d			
20.3	39.8	48.4	56.7	83.7	111.6	138.3	154.0			
E	X	I	T	↗	O	N	L	Y		
28.4	39.7	52.5	57.1	77.9	110.2	123.3	135.9	145.6		

SHEET NO. 36 OF 54 SIGN NO. 1



12.0" Radius, 2.0" Border, White on, Green;
"Mile 3 E Rd", ClearviewHwy-5-W-R;

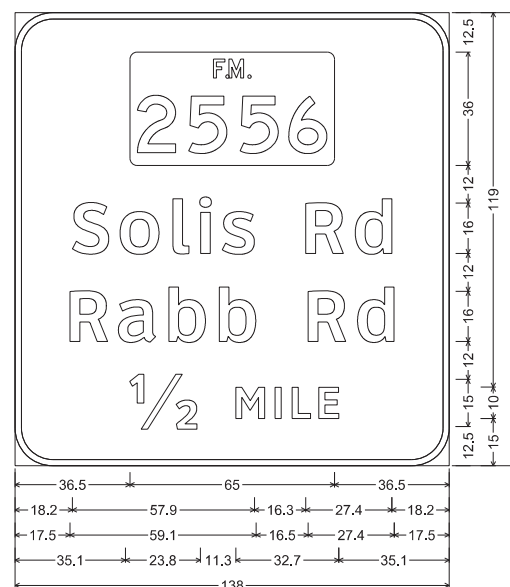
E11-1;

1.0" Inner border Green, 12.0" Radius, 2.0" Outer border, White on, Yellow;
"EXIT" Black, E; Down Arrow 22 - 22.0" 270" Black; "ONLY" Black, E;

Table of letter and object lefts

M	i	l	e	3	E	R	d			
20.3	39.8	48.4	56.7	83.7	111.6	138.3	154.0			
E	X	I	T	↓	O	N	L	Y		
28.6	39.9	52.7	57.2	72.0	110.0	123.1	135.7	145.4		

SHEET NO. 35 OF 54 SIGN NO. 1



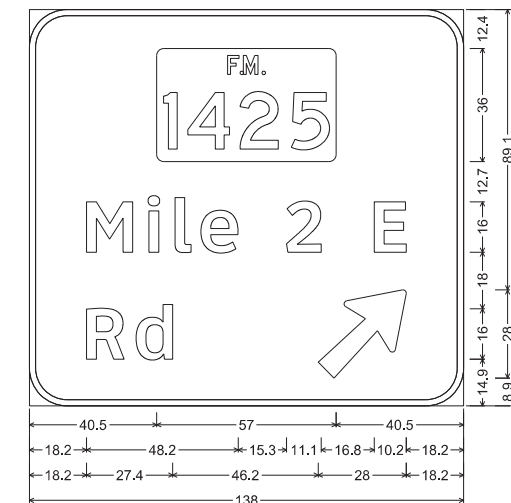
12.0" Radius, 2.0" Border, White on, Green;
State Highway 2556 4; "Solis Rd", ClearviewHwy-5-W-R;
"Rabb Rd", ClearviewHwy-5-W-R;

"1/2 MILE", ClearviewHwy-5-W-R;

Table of widths and spaces

36.5	65.0	36.5									
18.2	11.7	3.5	12.4	4.4	5.2	3.3	3.8	3.3	10.3		
	16.3	11.9	3.8	11.7	18.2						
17.5	R	a	b	b	R	d					
11.9	3.4	12.0	4.1	11.7	4.3	11.7	16.5	12.0	3.8	11.6	17.5
35.1	1/2	M	I	L	E						
23.8	11.3	9.1	3.3	2.1	3.4	5.8	2.6	6.4	35.1		

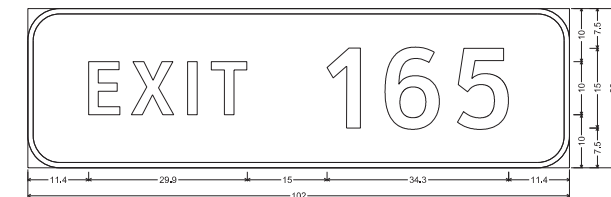
SHEET NO. 37 OF 54 SIGN NO. 1



12.0" Radius, 2.0" Border, White on, Green;
State Highway 1425 4; "Mile 2 E", ClearviewHwy-5-W-R;
"Rd", ClearviewHwy-5-W-R; Arrow A-3 - 35.6" 45";

Table of letter and object lefts

64.5					
40.5					
M	i	l	e	2	E
18.2	37.7	46.3	54.5	81.7	109.6
R	d	↗			
18.2	33.9	91.8			

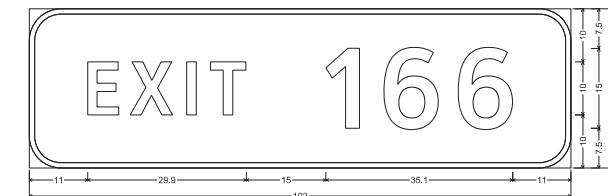


6.0" Radius, 1.0" Border, White on, Green;
"EXIT", ClearviewHwy-4-W; "165", ClearviewHwy-4-W;

Table of letter and object lefts

E	X	I	T	1	6	5
11.4	19.5	30.1	34.5	56.3	67.3	80.9

SHEET NO. 34 OF 54 SIGN NO. 2
SHEET NO. 37 OF 54 SIGN NO. 1
SHEET NO. 38 OF 54 SIGN NO. 1

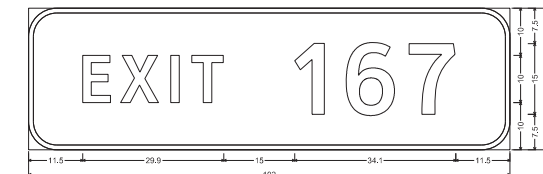


6.0" Radius, 1.0" Border, White on, Green;
"EXIT", ClearviewHwy-4-W; "166", ClearviewHwy-4-W;

Table of letter and object lefts

E	X	I	T	1	6	6
11.0	19.0	29.6	34.1	55.9	66.9	80.8

SHEET NO. 35 OF 54 SIGN NO. 1
SHEET NO. 36 OF 54 SIGN NO. 1

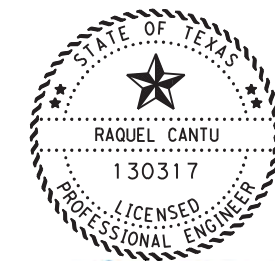


6.0" Radius, 1.0" Border, White on, Green;
"EXIT", ClearviewHwy-4-W; "167", ClearviewHwy-4-W;

Table of letter and object lefts

E	X	I	T	1	6	7
11.8	19.5	30.1	34.6	56.4	67.3	80.8

SHEET NO. 37 OF 54 SIGN NO. 2
SHEET NO. 39 OF 54 SIGN NO. 1
SHEET NO. 40 OF 54 SIGN NO. 1
SHEET NO. 40 OF 54 SIGN NO. 3

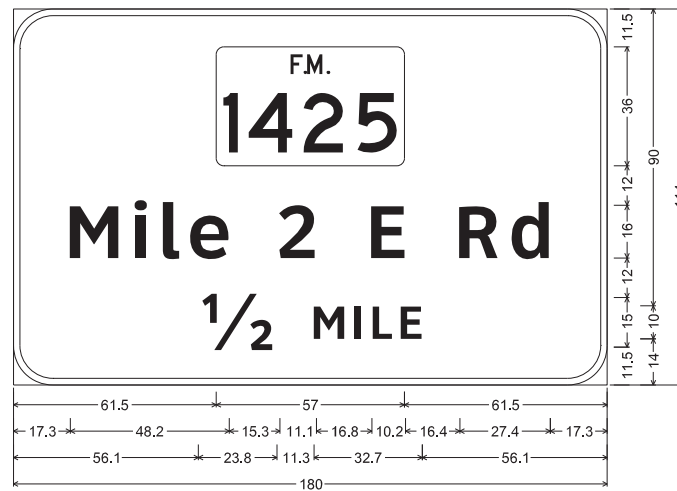


Raquel Cantu 11.05.20

TEXAS DEPARTMENT OF TRANSPORTATION
IH-2
LARGE SIGN DETAIL SHEETS

© 2020 SHEET 8 OF 13

DN:	LSJ	DRAWING:	ORIGINAL	DATE:	SEP. 2020	FED. PROJ. NO.:			STATE:	TEXAS	FEDERAL PROJECT NO.:	SHEET NO.:
CK DN:	GV							COUNTY:	PHARR	HIDALGO	6353	93
DW:	LSJ					CONTROL NO.:	00	SECTION NO.:	001	JOB NO.:	IH-2,	ETC.
CK DW:	GV											ETC.



12.0" Radius, 2.0" Border, White on, Green;
 State Highway 1425 4; "Mile 2 E Rd", ClearviewHwy-5-W-R;
 "1/2 MILE", ClearviewHwy-5-W-R;

Table of widths and spaces

61.5	57.0	61.5												
M	i	l	e	2	E	R	d							
17.3	14.6	4.9	3.8	4.8	5.1	3.1	11.9	15.3	11.1	16.8	10.2	16.4	27.4	17.3
1/2	M	I	L	E										
56.1	23.8	11.3	9.1	3.3	2.1	3.4	5.8	2.6	6.4	56.1				

SHEET NO. 38 OF 54 SIGN NO. 1



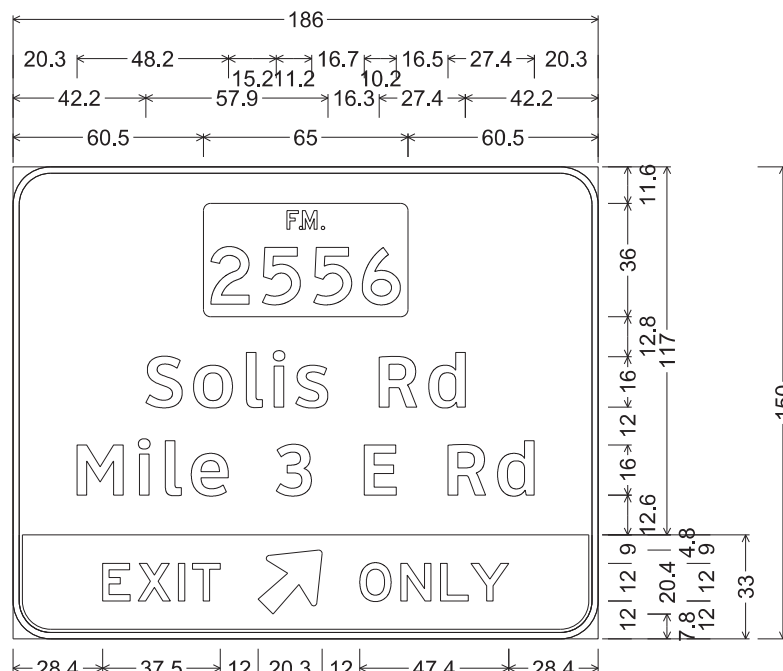
E11-1aR;
 12.0" Radius, 2.0" Border, White on, Green;
 State Highway 506 M1-6F3; "La Feria", ClearviewHwy-5-W-R; "Santa Rosa", ClearviewHwy-5-W-R;

E11-1e;
 1.0" Inner border Green, 12.0" Radius, 2.0" Outer border, White on, Yellow;
 "EXIT" Black, E; Arrow B-3 - 25.0" 45' Black; "ONLY" Black, E;

Table of letter and object lefts

66.0								
L	a	F	e	r	i	a		
39.8	52.2	80.5	93.8	110.0	120.7	128.3		
S	a	n	t	a	R	o	s	a
19.5	34.3	50.4	65.0	75.8	104.1	119.8	135.2	148.6
E	X	I	T	↗	O	N	L	Y
25.4	36.7	49.5	54.1	74.9	107.2	120.3	132.9	142.6

SHEET NO. 40 OF 54 SIGN NO. 2



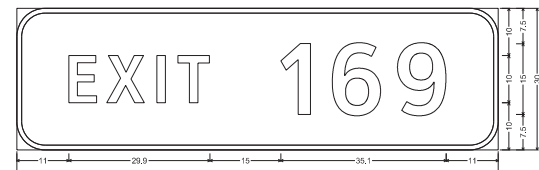
E11-1aR;
 12.0" Radius, 2.0" Border, White on, Green;
 State Highway 2556 4;
 "Solis Rd", ClearviewHwy-5-W-R;
 "Mile 3 E Rd", ClearviewHwy-5-W-R;

E11-1e;
 1.0" Inner border Green, 12.0" Radius, 2.0" Outer border, White on, Yellow;
 "EXIT" Black, E; Arrow B-3 - 25.0" 45' Black; "ONLY" Black, E;

Table of letter and object lefts

60.5								
S	o	l	i	s	R	d		
42.2	57.4	74.2	82.7	89.8	116.4	132.1		
M	i	l	e	3	E	R	d	
20.3	39.8	48.4	56.7	83.7	111.6	138.3	154.0	
E	X	I	T	↗	O	N	L	Y
28.4	39.7	52.5	57.1	77.9	110.2	123.3	135.9	145.6

SHEET NO. 39 OF 54 SIGN NO. 1

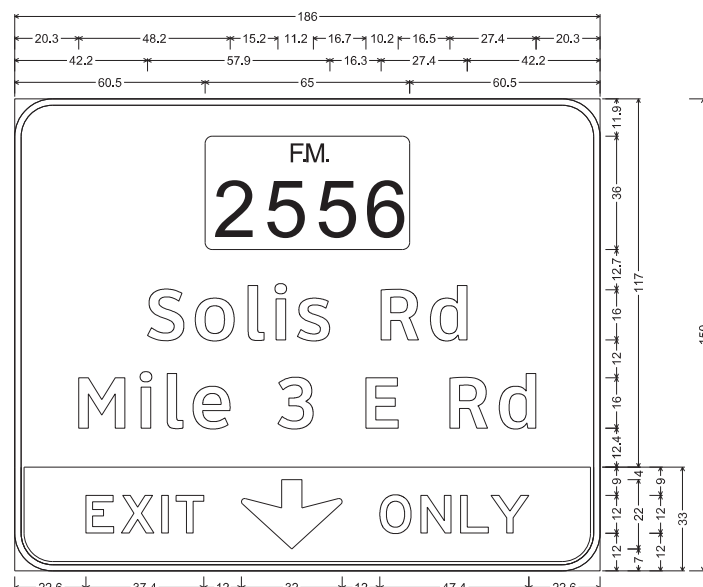


6.0" Radius, 1.0" Border, White on, Green;
 "EXIT", ClearviewHwy-5-W-R; "169", ClearviewHwy-5-W-R;

Table of letter and object lefts

E	X	I	T	1	6	9
11.0	19.0	26.7	34.1	55.9	66.8	82.2

SHEET NO. 40 OF 54 SIGN NO. 2



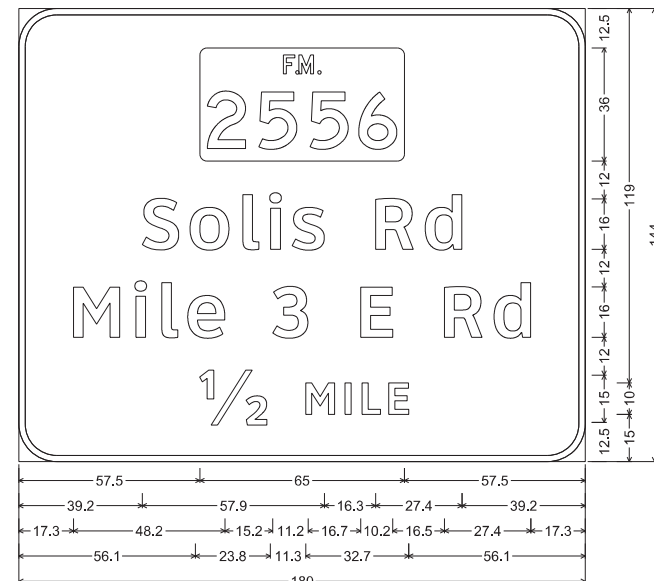
12.0" Radius, 2.0" Border, White on, Green;
 State Highway 2556 4; "Solis Rd", ClearviewHwy-5-W-R; "Mile 3 E Rd", ClearviewHwy-5-W-R;

E11-1;
 1.0" Inner border Green, 12.0" Radius, 2.0" Outer border, White on, Yellow;
 "EXIT" Black, E; Down Arrow 22 - 22.0" 270' Black; "ONLY" Black, E;

Table of letter and object lefts

60.5								
S	o	l	i	s	R	d		
42.2	57.4	74.2	82.7	89.8	116.4	132.1		
M	i	l	e	3	E	R	d	
20.3	39.8	48.4	56.7	83.7	111.6	138.3	154.0	
E	X	I	T	↓	O	N	L	Y
22.6	33.9	46.7	51.2	72.0	116.0	129.1	141.7	151.4

SHEET NO. 40 OF 54 SIGN NO. 1

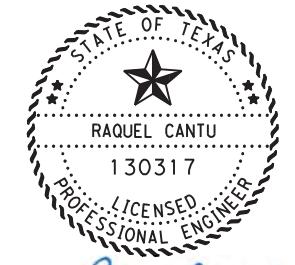


12.0" Radius, 2.0" Border, White on, Green;
 State Highway 2556 4; "Solis Rd", ClearviewHwy-5-W-R;
 "Mile 3 E Rd", ClearviewHwy-5-W-R; "1/2 MILE", ClearviewHwy-5-W-R;

Table of widths and spaces

57.5	65.0	57.5												
S	o	l	i	s	R	d								
39.2	11.7	3.5	12.4	4.4	5.2	3.3	3.8	3.3	10.3	16.3	11.9	3.8	11.7	39.2
M	i	l	e	3	E	R	d							
17.3	14.7	4.8	3.8	4.8	5.2	3.1	11.8	15.2	3	11.2	16.7	10.2	16.5	27.4
1/2	M	I	L	E										
56.1	23.8	11.3	9.1	3.3	2.1	3.4	5.8	2.6	6.4	56.1				

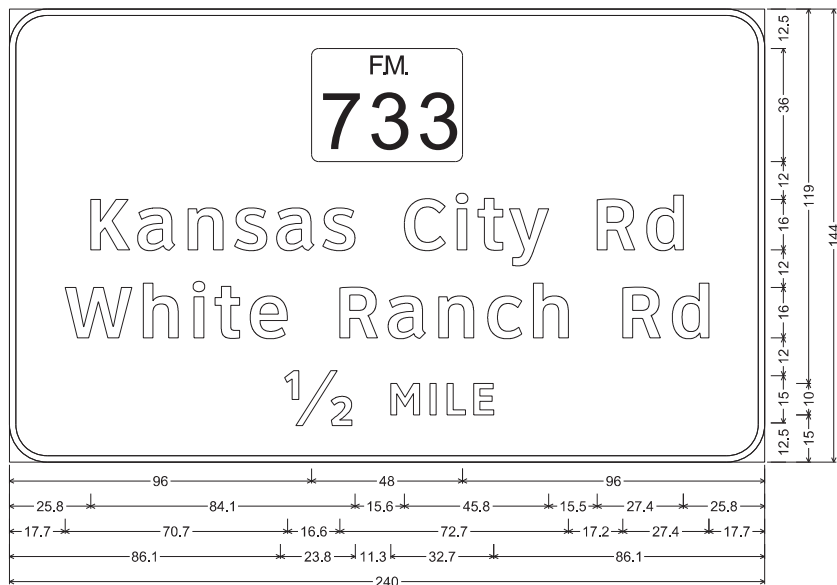
SHEET NO. 40 OF 54 SIGN NO. 3



Raquel Cantu 11.05.20

TEXAS DEPARTMENT OF TRANSPORTATION
 IH-2
 LARGE SIGN DETAIL SHEETS

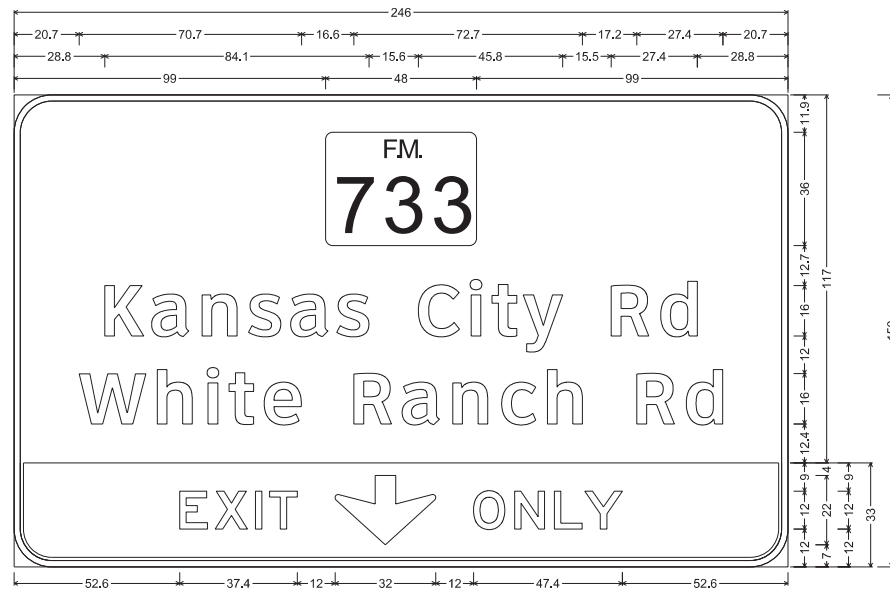
© 2020		SHEET 9 OF 13			
DN: LSJ	DRAWING ORIGINAL	DATE SEP. 2020	FED. DIST. NO.	STATE TEXAS	FEDERAL PROJECT NO.
CK DN: GY					SHEET NO. 94
DW: LSJ			STATE DIST. NO. PHARR	COUNTY HIDALGO	CONTROL NO. 6353
CK DW: GY				SECTION NO. 00	JOB NO. 001
					IH-2, ETC.



12.0" Radius, 2.0" Border, White on, Green;
 State Highway 733 3; "Kansas City Rd", ClearviewHwy-5-W-R; "White Ranch Rd", ClearviewHwy-5-W-R;
 "1/2 MILE", ClearviewHwy-5-W-R;
 Table of widths and spaces

96.0	48.0	96.0																	
K	a	n	s	a	s	C	i	t	y	R	d								
25.8	12.5	2.4	12.0	4.1	11.1	3.6	10.4	3.0	12.0	2.7	10.3	15.6	13.1	3.4	3.8	3.1	8.0	2.0	12.4
	R	d																	
	15.5	11.9	3.8	11.7	25.8														
W	h	i	t	e	R	a	n	c	h	R	d								
17.7	21.1	3.7	11.1	4.8	3.7	3.2	8.0	3.2	11.9	16.6	11.9	3.5	11.9	4.2	11.1	4.4	10.9	3.7	11.1
	R	d																	
	17.2	12.0	3.8	11.6	17.7														
1/2	M	I	L	E															
86.1	23.8	11.3	9.1	3.3	2.1	3.4	5.8	2.6	6.4	86.1									

SHEET NO. 41 OF 54 SIGN NO. 1

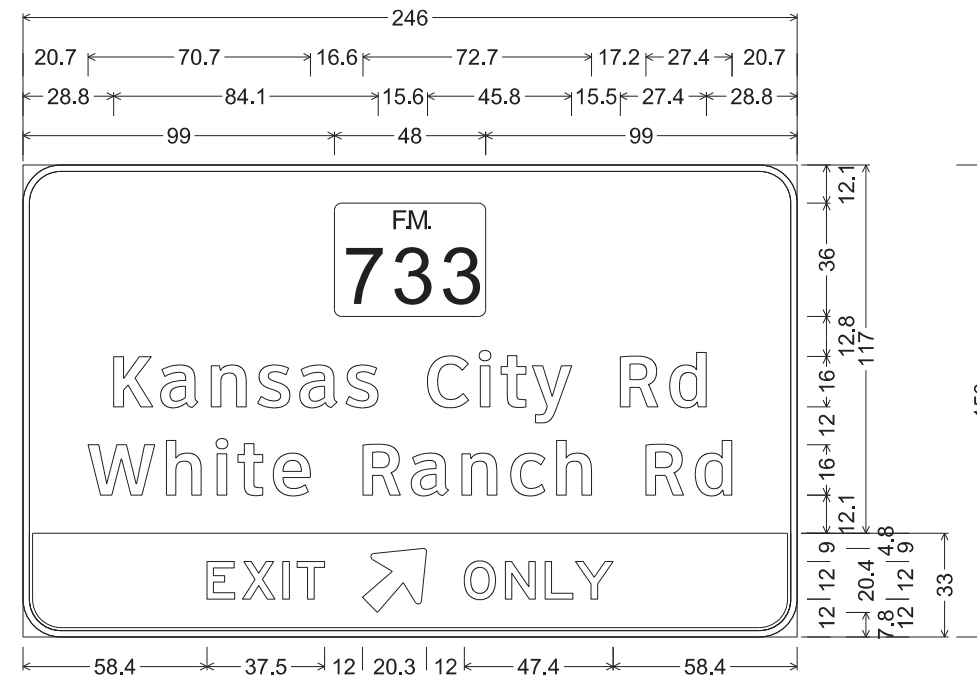


12.0" Radius, 2.0" Border, White on, Green;
 State Highway 733 3; "Kansas City Rd", ClearviewHwy-5-W-R; "White Ranch Rd", ClearviewHwy-5-W-R;

E11-1;
 1.0" Inner border Green, 12.0" Radius, 2.0" Outer border, White on, Yellow;
 "EXIT" Black, E; Down Arrow 22 - 22.0" 270' Black; "ONLY" Black, E;
 Table of letter and object lefts

99.0											
K	a	n	s	a	s	C	i	t	y	R	d
28.8	43.7	59.8	74.5	87.9	102.6	128.5	145.0	151.9	161.9	189.8	205.5
W	h	i	t	e	R	a	n	c	h	R	d
20.7	45.5	61.4	68.3	79.5	108.0	123.4	139.5	155.0	169.6	197.9	213.7
E	X	I	T	↓	O	N	L	Y			
52.6	63.9	76.7	81.2	102.0	146.0	159.1	171.7	181.4			

SHEET NO. 41 OF 54 SIGN NO. 2



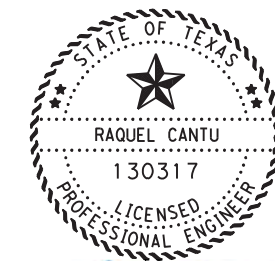
E11-1aR;

12.0" Radius, 2.0" Border, White on, Green;
 State Highway 733 3; "Kansas City Rd", ClearviewHwy-5-W-R;
 "White Ranch Rd", ClearviewHwy-5-W-R;

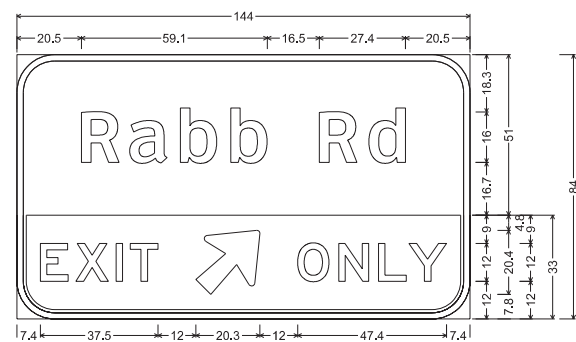
E11-1e;
 1.0" Inner border Green, 12.0" Radius, 2.0" Outer border, White on, Yellow;
 "EXIT" Black, E; Arrow B-3 - 25.0" 45' Black; "ONLY" Black, E;
 Table of letter and object lefts

99.0											
K	a	n	s	a	s	C	i	t	y	R	d
28.8	43.7	59.8	74.5	87.9	102.6	128.5	145.0	151.9	161.9	189.8	205.5
W	h	i	t	e	R	a	n	c	h	R	d
20.7	45.5	61.4	68.3	79.5	108.0	123.4	139.5	155.0	169.6	197.9	213.7
E	X	I	T	↗	O	N	L	Y			
58.4	69.7	82.5	87.1	107.9	140.2	153.3	165.9	175.6			

SHEET NO. 42 OF 54 SIGN NO. 1



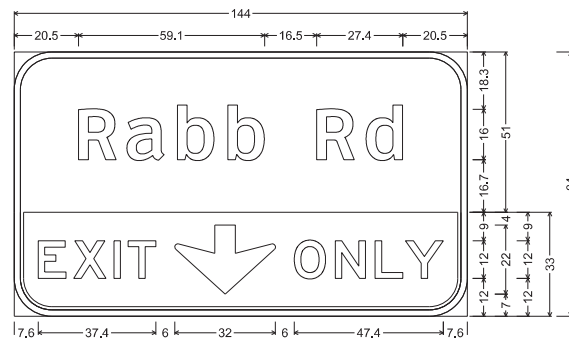
Raquel Cantu 11.05.20



E11-1aR;
 12.0" Radius, 2.0" Border, White on, Green;
 "Rabb Rd", ClearviewHwy-5-W-R;
 E11-1e;
 1.0" Inner border Green, 12.0" Radius, 2.0" Outer border, White on, Yellow;
 "EXIT" Black, E; Arrow B-3 - 25.0" 45' Black; "ONLY" Black, E;
 Table of letter and object lefts

R	a	b	b	R	d			
20.5	35.8	51.9	67.9	96.1	111.9			
E	X	I	T	↗	O	N	L	Y
7.4	18.7	31.5	36.1	56.9	89.2	102.3	114.9	124.6

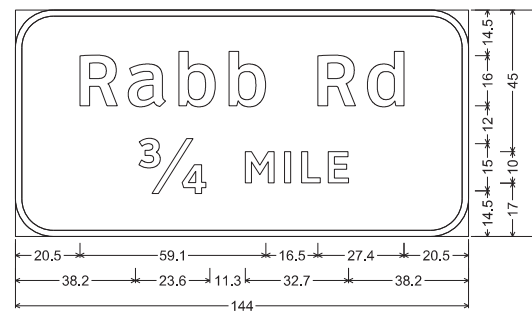
SHEET NO. 41 OF 54 SIGN NO. 3



12.0" Radius, 2.0" Border, White on, Green;
 "Rabb Rd", ClearviewHwy-5-W-R;
 E11-1;
 1.0" Inner border Green, 12.0" Radius, 2.0" Outer border, White on, Yellow;
 "EXIT" Black, E; Down Arrow 22 - 22.0" 270' Black; "ONLY" Black, E;
 Table of letter and object lefts

R	a	b	b	R	d			
20.5	35.8	51.9	67.9	96.1	111.9			
E	X	I	T	↓	O	N	L	Y
7.6	18.9	31.7	36.2	51.0	89.0	102.1	114.7	124.4

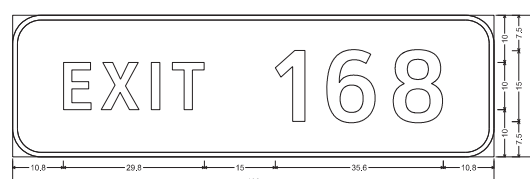
SHEET NO. 42 OF 54 SIGN NO. 2



12.0" Radius, 2.0" Border, White on, Green;
 "Rabb Rd", ClearviewHwy-5-W-R;
 "3/4 MILE", ClearviewHwy-5-W-R;
 Table of widths and spaces

R	a	b	b	R	d							
20.5	11.9	3.4	12.0	4.1	11.7	4.3	11.7	16.5	12.0	3.8	11.6	20.5
3/4	M	I	L	E								
38.2	23.6	11.3	9.1	3.4	2.0	3.4	5.9	2.6	6.3	38.2		

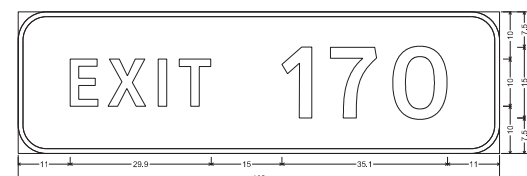
SHEET NO. 43 OF 54 SIGN NO. 1



6.0" Radius, 1.0" Border, White on, Green;
 "EXIT", ClearviewHwy-5-W; "168", ClearviewHwy-5-W;
 Table of letter and object lefts

E	X	I	T	1	6	8
10.8	18.8	26.4	33.9	55.8	86.6	98.8

SHEET NO. 41 OF 54 SIGN NO. 3
 SHEET NO. 42 OF 54 SIGN NO. 2
 SHEET NO. 43 OF 54 SIGN NO. 1



6.0" Radius, 1.0" Border, White on, Green;
 "EXIT", ClearviewHwy-5-W; "170", ClearviewHwy-5-W;
 Table of letter and object lefts

E	X	I	T	1	7	0
11.0	19.0	26.7	34.1	55.9	86.7	98.9

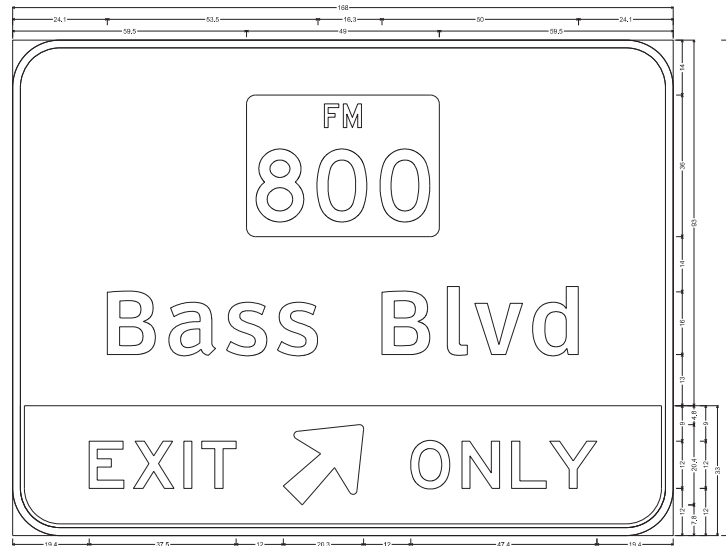
SHEET NO. 41 OF 54 SIGN NO. 1
 SHEET NO. 41 OF 54 SIGN NO. 2
 SHEET NO. 42 OF 54 SIGN NO. 1
 SHEET NO. 45 OF 54 SIGN NO. 1
 SHEET NO. 46 OF 54 SIGN NO. 1
 SHEET NO. 47 OF 54 SIGN NO. 1

TEXAS DEPARTMENT OF TRANSPORTATION
 IH-2
 LARGE SIGN DETAIL SHEETS

© 2020 SHEET 10 OF 13

DN: LSJ	DRAWING ORIGINAL	DATE SEP. 2020	FED. DIST. NO.	STATE TEXAS	FEDERAL PROJECT NO.	SHEET NO. 95
CK DN: GY	DW: LSJ	CK DW: GY	STATE DIST. NO. PHARR	COUNTY HIDALGO	CONTROL NO. 6353	SECTION NO. 00
						JOB NO. 001

ETC. ETC.

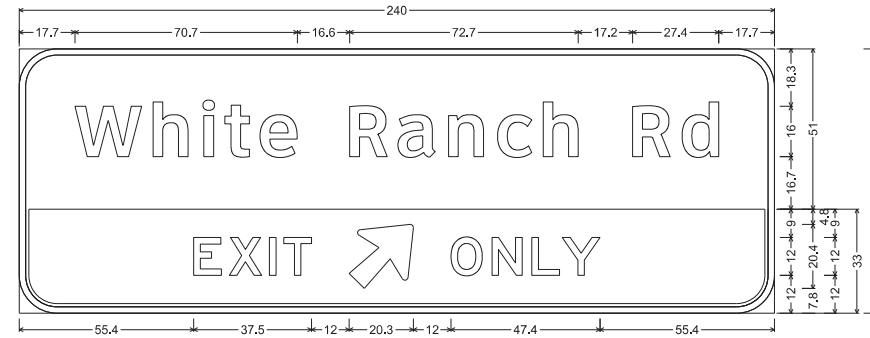


E11-1aR:
12.0" Radius, 2.0" Border, White on, Green;
State Highway 800 M1-6F3: "Bass Blvd", ClearviewHwy-5-W-R;

E11-1e:
1.0" Inner border Green, 12.0" Radius, 2.0" Outer border, White on, Yellow;
"EXIT" Black, E; Arrow B-3 - 25.0" 45' Black; "ONLY" Black, E;
Table of letter and object lefts

B	a	s	s	B	I	v	d	
24.1	39.8	54.4	67.3	93.9	110.5	117.5	132.2	
E	X	I	T	↗	O	N	L	Y
19.4	30.7	43.5	48.1	68.9	101.2	114.3	126.9	136.6

SHEET NO. 44 OF 54 SIGN NO. 1

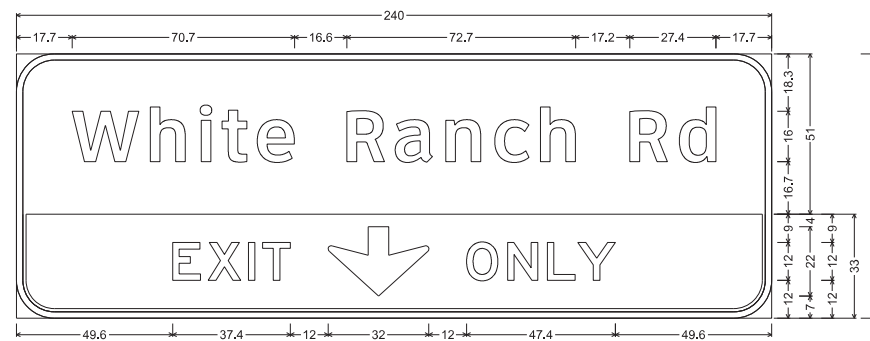


E11-1aR:
12.0" Radius, 2.0" Border, White on, Green;
"White Ranch Rd", ClearviewHwy-5-W-R;

E11-1e:
1.0" Inner border Green, 12.0" Radius, 2.0" Outer border, White on, Yellow;
"EXIT" Black, E; Arrow B-3 - 25.0" 45' Black; "ONLY" Black, E;
Table of letter and object lefts

W	h	i	t	e	R	a	n	c	h	R	d
17.7	42.5	58.4	65.3	76.5	105.0	120.4	136.5	152.0	166.6	194.9	210.7
E	X	I	T	↗	O	N	L	Y			
55.4	66.7	79.5	84.1	104.9	137.2	150.3	162.9	172.6			

SHEET NO. 45 OF 54 SIGN NO. 1

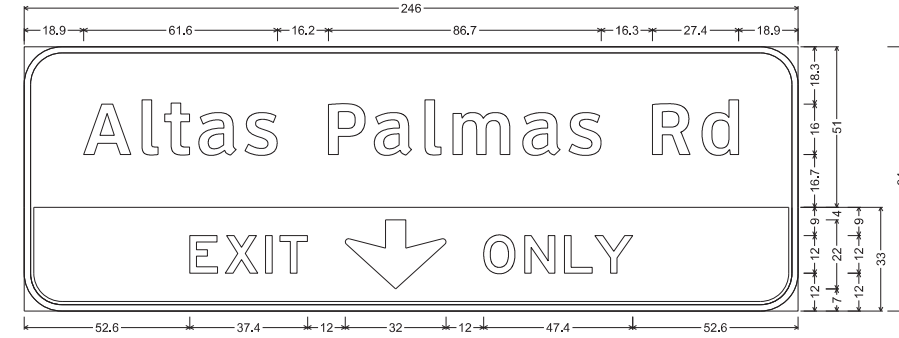


12.0" Radius, 2.0" Border, White on, Green;
"White Ranch Rd", ClearviewHwy-5-W-R;

E11-1:
1.0" Inner border Green, 12.0" Radius, 2.0" Outer border, White on, Yellow;
"EXIT" Black, E; Down Arrow 22 - 22.0" 270' Black; "ONLY" Black, E;
Table of letter and object lefts

W	h	i	e	R	a	n	c	h	R	d	
17.7	42.5	58.4	65.3	76.5	105.0	120.4	136.5	152.0	166.6	194.9	210.7
E	X	I	T	↓	O	N	L	Y			
49.6	60.9	73.7	78.2	99.0	143.0	156.1	168.7	178.4			

SHEET NO. 46 OF 54 SIGN NO. 1

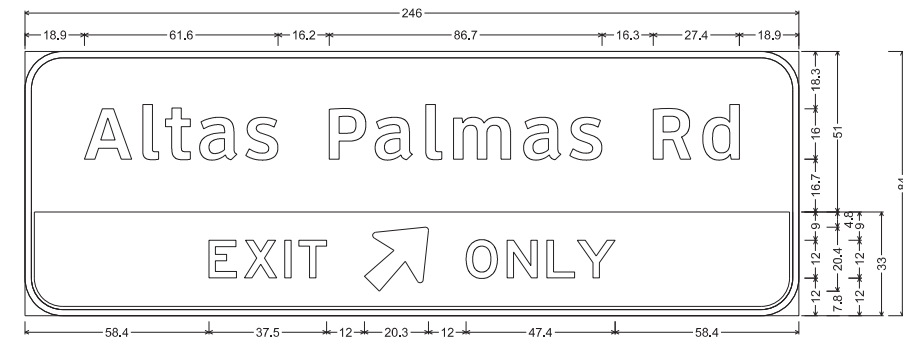


12.0" Radius, 2.0" Border, White on, Green;
"Altas Palmas Rd", ClearviewHwy-5-W-R;

E11-1:
1.0" Inner border Green, 12.0" Radius, 2.0" Outer border, White on, Yellow;
"EXIT" Black, E; Down Arrow 22 - 22.0" 270' Black; "ONLY" Black, E;
Table of letter and object lefts

A	l	t	a	s	P	a	l	m	a	s	R	d
18.9	37.4	44.7	55.5	70.2	96.7	111.3	127.4	136.2	158.5	173.1	199.7	215.4
E	X	I	T	↓	O	N	L	Y				
52.6	63.9	76.7	81.2	102.0	146.0	159.1	171.7	181.4				

SHEET NO. 45 OF 54 SIGN NO. 2
SHEET NO. 51 OF 54 SIGN NO. 1

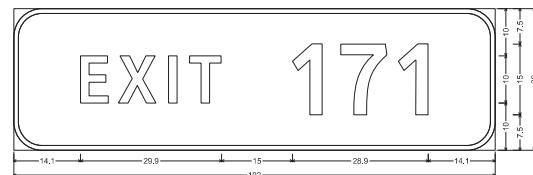


E11-1aR:
12.0" Radius, 2.0" Border, White on, Green;
"Altas Palmas Rd", ClearviewHwy-5-W-R;

E11-1e:
1.0" Inner border Green, 12.0" Radius, 2.0" Outer border, White on, Yellow;
"EXIT" Black, E; Arrow B-3 - 25.0" 45' Black; "ONLY" Black, E;
Table of letter and object lefts

A	l	t	a	s	P	a	l	m	a	s	R	d
18.9	37.4	44.7	55.5	70.2	96.7	111.3	127.4	136.2	158.5	173.1	199.7	215.4
E	X	I	T	↗	O	N	L	Y				
58.4	69.7	82.5	87.1	107.9	140.2	153.3	165.9	175.6				

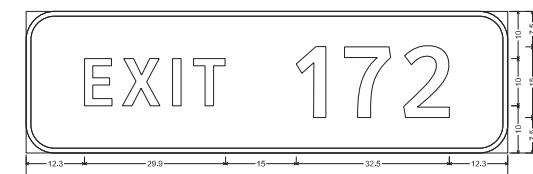
SHEET NO. 46 OF 54 SIGN NO. 2



6.0" Radius, 1.0" Border, White on, Green;
"EXIT", ClearviewHwy-5-W; "171", ClearviewHwy-5-W;
Table of letter and object lefts

E	X	I	T	1	7	1
14.1	22.2	32.6	37.3	59.0	66.3	81.5

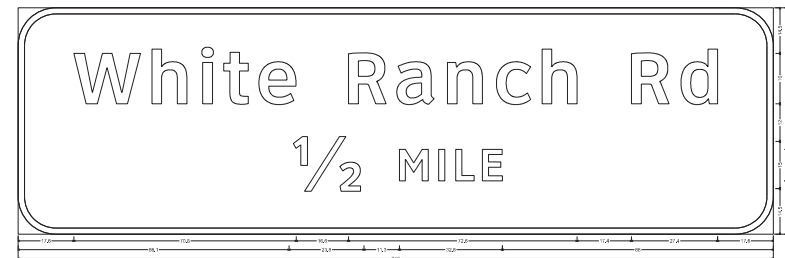
SHEET NO. 44 OF 54 SIGN NO. 1



6.0" Radius, 1.0" Border, White on, Green;
"EXIT", ClearviewHwy-5-W; "172", ClearviewHwy-5-W;
Table of letter and object lefts

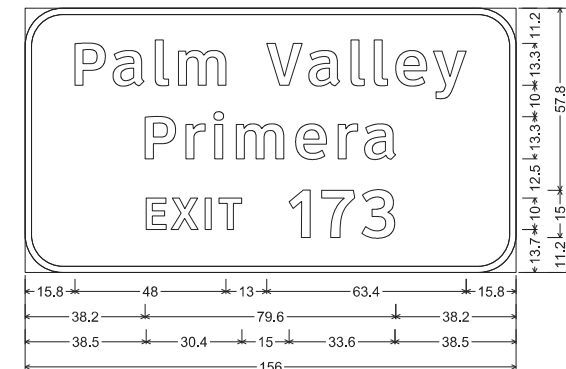
E	X	I	T	1	7	2
12.3	20.4	31.0	36.4	57.2	67.5	80.0

SHEET NO. 45 OF 54 SIGN NO. 2
SHEET NO. 46 OF 54 SIGN NO. 2
SHEET NO. 51 OF 54 SIGN NO. 1



12.0" Radius, 2.0" Border, White on, Green;
"White Ranch Rd", ClearviewHwy-5-W-R;

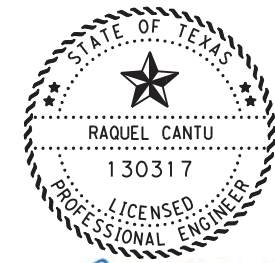
SHEET NO. 47 OF 54 SIGN NO. 1



12.0" Radius, 2.0" Border, White on, Green;
"Palm Valley", ClearviewHwy-5-W-R; "Primera", ClearviewHwy-5-W-R;
"EXIT", ClearviewHwy-5-W-R; "173", ClearviewHwy-5-W-R;
Table of letter and object lefts

P	a	l	m	v	a	l	l	e	y
15.8	27.9	41.4	48.7	76.8	90.2	103.6	111.0	117.8	129.8
P	r	i	m	e	r	a			
38.2	51.1	60.0	67.2	86.0	99.5	107.9			
E	X	I	T	1	7	3			
38.5	46.4	57.2	61.6	83.9	94.2	107.0			

SHEET NO. 47 OF 54 SIGN NO. 2



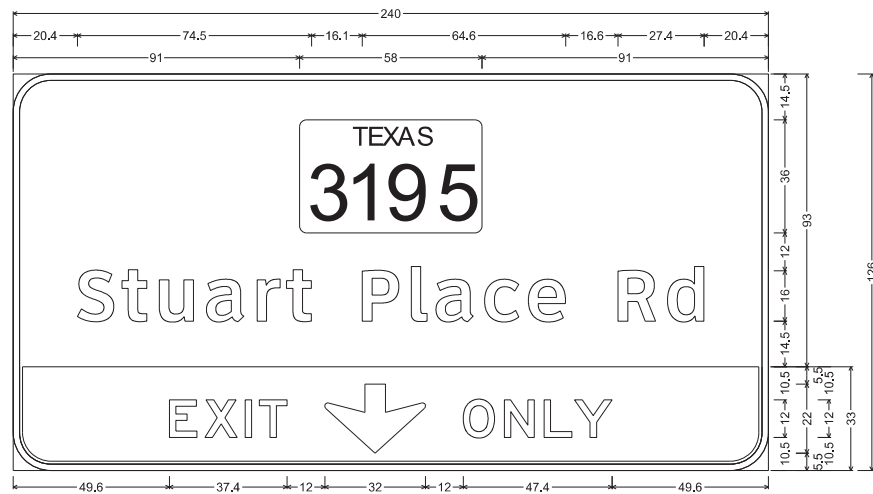
Raquel Cantu 11.05.20

TEXAS DEPARTMENT OF TRANSPORTATION
IH-2
LARGE SIGN DETAIL SHEETS

© 2020 SHEET 11 OF 13

DN: LSJ	DRAWING ORIGINAL	DATE SEP. 2020	FED. PROJ. NO.	STATE TEXAS	FEDERAL PROJECT NO.	SHEET NO.
CK DN: GY						96
DW: LSJ			STATE DIST. NO. PHARR	COUNTY HIDALGO	CONTRACT NO. 6353	SECTION NO. 00
CK DW: GY					JOB NO. 001	HIGHWAY NO. IH-2

ETC. ETC.

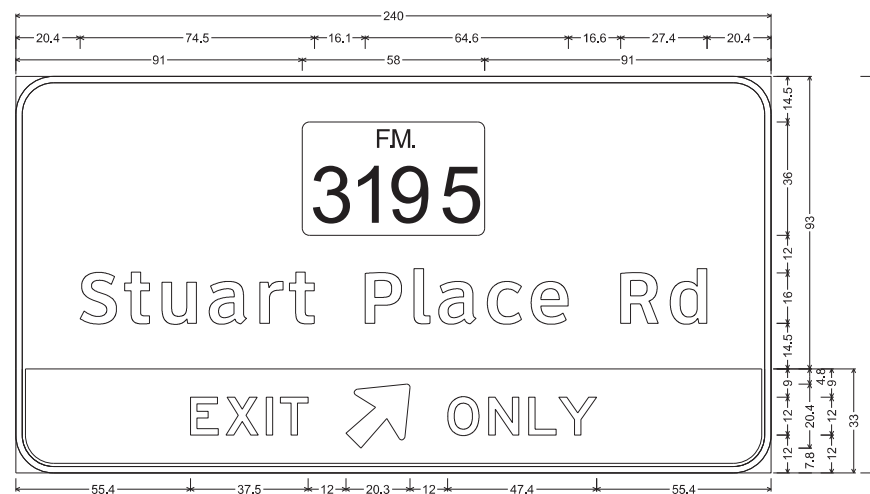


E11-1aR;
 12.0" Radius, 2.0" Border, White on, Green;
 State Highway 3195 M1-6T4; "Stuart Place Rd", ClearviewHwy-5-W-R;

E11-1e;
 1.0" Inner border Green, 12.0" Radius, 2.0" Outer border, White on, Yellow;
 "EXIT" Black, E; Down Arrow Custom - 22.0" 270' Black; "ONLY" Black, E;
 Table of letter and object lefts

91.0																
S	t	u	a	r	t	P	I	a	c	e	R	d				
20.4	34.6	46.4	61.4	77.5	86.9	111.0	126.5	134.4	149.8	163.8	192.2	208.0				
E	X	I	T	↓	O	N	L	Y								
49.6	60.9	73.7	78.2	99.0	143.0	156.1	168.7	178.4								

SHEET NO. 48 OF 54 SIGN NO. 1

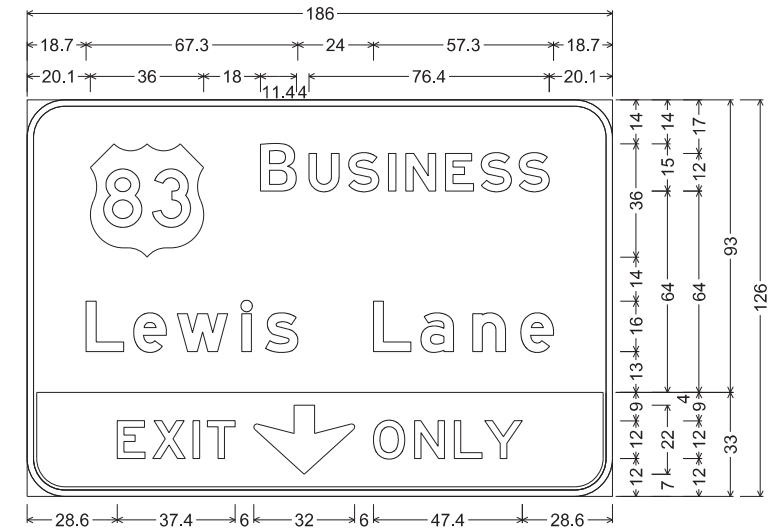


E11-1aR;
 12.0" Radius, 2.0" Border, White on, Green;
 State Highway 3195 4; "Stuart Place Rd", ClearviewHwy-5-W-R;

E11-1e;
 1.0" Inner border Green, 12.0" Radius, 2.0" Outer border, White on, Yellow;
 "EXIT" Black, E; Arrow B-3 - 25.0" 45' Black; "ONLY" Black, E;
 Table of letter and object lefts

91.0																
S	t	u	a	r	t	P	I	a	c	e	R	d				
20.4	34.6	46.4	61.4	77.5	86.9	111.0	126.5	134.4	149.8	163.8	192.2	208.0				
E	X	I	T	↗	O	N	L	Y								
55.4	66.7	79.5	84.1	104.9	137.2	150.3	162.9	172.6								

SHEET NO. 49 OF 54 SIGN NO. 1

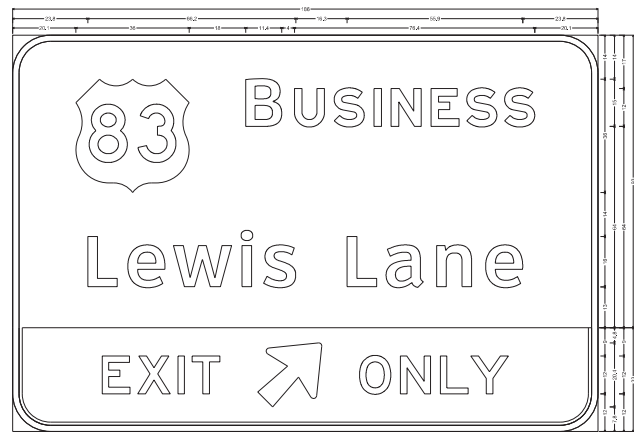


12.0" Radius, 2.0" Border, White on, Green;
 US 83 M1-4; "B", ClearviewHwy-5-W-R; "BUSINESS", E Mod;
 "Lewis Lane", E Mod;

E11-1;
 1.0" Inner border Green, 12.0" Radius, 2.0" Outer border, White on, Yellow;
 "EXIT" Black, E; Down Arrow 22 - 22.0" 270' Black;
 "ONLY" Black, E;
 Table of letter and object lefts

83	B	U	S	I	N	E	S	S				
20.1	74.1	89.5	102.2	114.8	120.3	132.9	144.3	156.4				
L	e	w	i	s	L	a	n	e				
18.7	33.8	47.7	68.2	75.7	110.0	125.1	141.6	156.9				
E	X	I	T	↓	O	N	L	Y				
28.6	39.9	52.7	57.2	72.0	110.0	123.1	135.7	145.4				

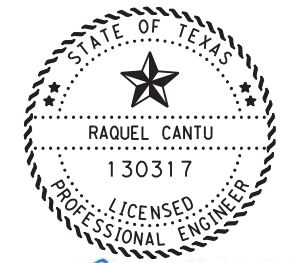
SHEET NO. 50 OF 54 SIGN NO. 1



E11-1;
 12.0" Radius, 2.0" Border, White on, Green;
 State Highway 3195 4; "Stuart Place Rd", ClearviewHwy-5-W-R;
 E11-1e;
 1.0" Inner border Green, 12.0" Radius, 2.0" Outer border, White on, Yellow;
 "EXIT" Black, E; Arrow B-3 - 25.0" 45' Black; "ONLY" Black, E;
 Table of letter and object lefts

91.0																
S	t	u	a	r	t	P	I	a	c	e	R	d				
20.4	34.6	46.4	61.4	77.5	86.9	111.0	126.5	134.4	149.8	163.8	192.2	208.0				
E	X	I	T	↗	O	N	L	Y								
55.4	66.7	79.5	84.1	104.9	137.2	150.3	162.9	172.6								

SHEET NO. 51 OF 54 SIGN NO. 2

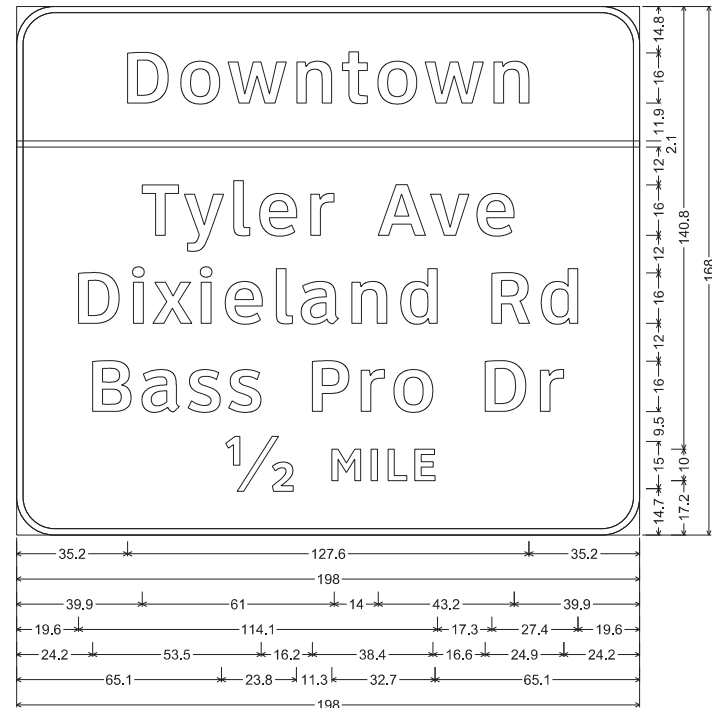


Raquel Cantu 11.05.20

TEXAS DEPARTMENT OF TRANSPORTATION
 IH-2
 LARGE SIGN DETAIL SHEETS

© 2020 SHEET 12 OF 13

DN: LSJ	DRAWING ORIGINAL	DATE SEP. 2020	FED. DIST. NO.	STATE TEXAS	FEDERAL PROJECT NO.	SHEET NO. 97
CK DN: GV			STATE DIST. NO.	COUNTY PHARR	CONTROL NO. 6353	SECTION NO. 00
DW: LSJ						JOB NO. 001
CK DW: GV						HIGHWAY NO. IH-2, ETC.

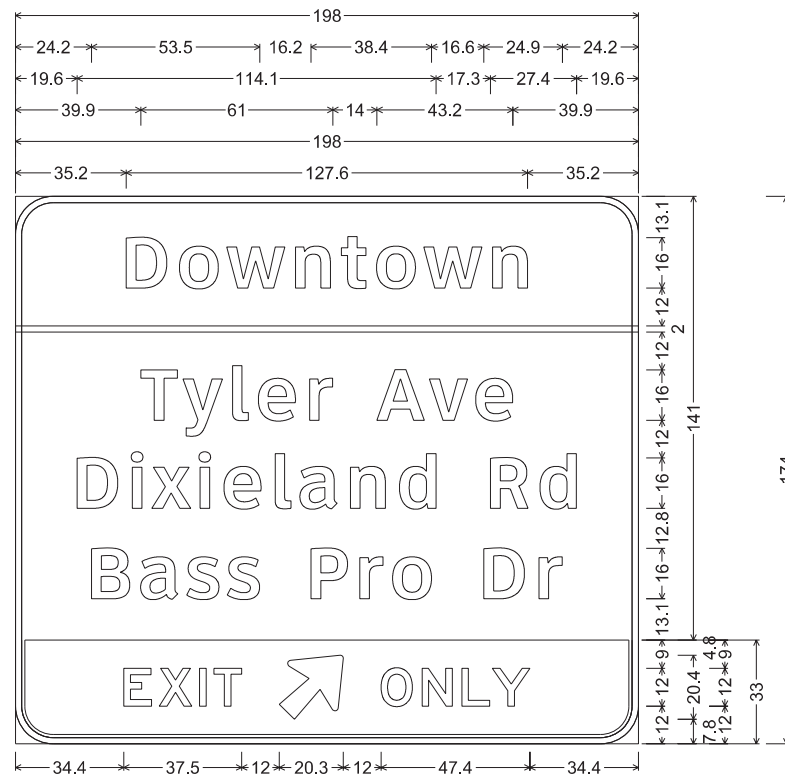


Harlingen Tyler Ave Dixieland Rd exit 1/2 mile;
 12.0" Radius, 2.0" Border, White on, Green;
 "Downtown", ClearviewHwy-5-W-R; "Tyler Ave", ClearviewHwy-5-W-R;
 "Dixieland Rd", ClearviewHwy-5-W-R; "Bass Pro Dr", ClearviewHwy-5-W-R;
 "1/2 MILE", ClearviewHwy-5-W-R;

Table of widths and spaces

D	o	w	n	t	o	w	n	35.2	13.0	3.9	12.4	2.6	18.7	3.2	11.1	3.5	7.9	3.3	12.4	2.6	18.6	3.3	11.1	35.2											
-0.0 198.0 0.0																																			
T	y	l	e	r	A	v	e	39.9	11.6	1.8	12.4	3.3	5.1	3.1	11.9	4.4	7.4	14.0	15.2	1.4	12.2	2.6	11.8	39.9											
D	i	x	i	e	l	a	n	d	B	a	s	s	P	r	o	D	r	19.6	13.0	4.2	3.8	2.7	12.4	2.6	3.8	4.2	11.8	4.4	5.2	2.7	11.9	4.2	11.1	4.5	11.6
17.3 R 11.9 3.8 11.7 19.6																																			
B	a	s	s	P	r	o	D	r	1/2	M	I	L	E	24.2	12.2	3.4	11.9	2.7	10.3	2.7	10.3	16.2	11.7	3.9	7.4	3.0	12.4	16.6	12.9	4.6	7.4	24.2			
65.1 23.8 11.3 9.1 3.3 2.1 3.4 5.8 2.6 6.4 65.1																																			

SHEET NO. 52 OF 54 SIGN NO. 1



FM 3195 Stuart Place Rd exit arrow 45 only;

12.0" Radius, 2.0" Border, White on, Green;
 "Downtown", ClearviewHwy-5-W-R; "Tyler Ave", ClearviewHwy-5-W-R;
 "Dixieland Rd", ClearviewHwy-5-W-R;
 "Bass Pro Dr", ClearviewHwy-5-W-R;

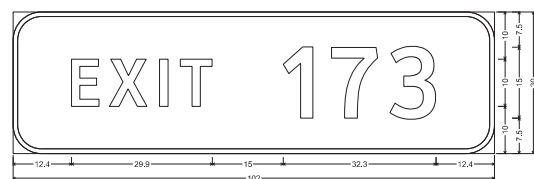
E11-1e;

1.0" Inner border Green, 12.0" Radius, 2.0" Outer border, White on, Yellow;
 "EXIT" Black, E; Arrow B-3 - 25.0" 45' Black; "ONLY" Black, E;

Table of letter and object lefts

D	o	w	n	t	o	w	n	35.2	52.1	67.1	89.0	103.6	114.8	129.8	151.7						
-0.0																					
T	y	l	e	r	A	v	e	39.9	53.3	69.0	77.2	93.5	114.9	131.5	146.3						
D	i	x	i	e	l	a	n	d	R	d	19.6	36.8	43.3	58.3	66.3	82.5	90.4	106.5	122.1	151.0	166.7
B	a	s	s	P	r	o	D	r	24.2	39.8	54.4	67.4	93.9	109.5	119.9	148.9	166.4				
E	X	I	T	↗	O	N	L	Y	34.4	45.7	58.5	63.1	83.9	116.2	129.3	141.9	151.6				

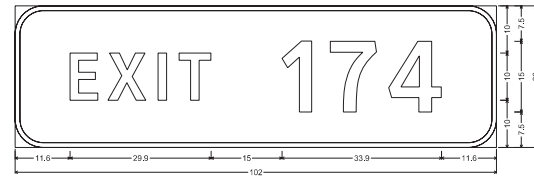
SHEET NO. 53 OF 54 SIGN NO. 1



6.0" Radius, 1.0" Border, White on, Green;
 "EXIT", ClearviewHwy-4-W; "173", ClearviewHwy-4-W;
 Table of letter and object lefts

E	X	I	T	1	7	3
12.4	20.4	31.0	35.5	37.3	67.5	79.9

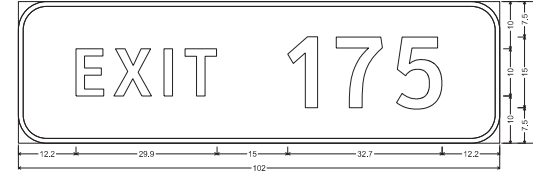
SHEET NO. 48 OF 54 SIGN NO. 1
 SHEET NO. 49 OF 54 SIGN NO. 1



6.0" Radius, 1.0" Border, White on, Green;
 "EXIT", ClearviewHwy-4-W; "174", ClearviewHwy-4-W;
 Table of letter and object lefts

E	X	I	T	1	7	4
11.6	19.7	30.3	34.8	36.5	66.8	79.2

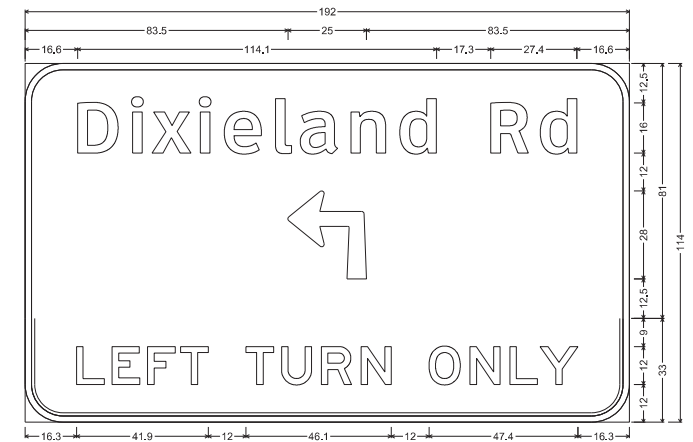
SHEET NO. 50 OF 54 SIGN NO. 1
 SHEET NO. 51 OF 54 SIGN NO. 2



6.0" Radius, 1.0" Border, White on, Green;
 "EXIT", ClearviewHwy-4-W; "175", ClearviewHwy-4-W;
 Table of letter and object lefts

E	X	I	T	1	7	5
12.2	20.4	30.8	35.3	37.0	67.3	80.1

SHEET NO. 52 OF 54 SIGN NO. 1
 SHEET NO. 53 OF 54 SIGN NO. 1



E11-2aT_VARxVAR;
 12.0" Radius, 2.0" Border, White on, Green;
 "Dixieland Rd", ClearviewHwy-5-W-R; 90 Deg Advance Turn Arrow Custom 25.0" X 28.0";
 1.0" Inner border Green, 12.0" Radius, 2.0" Outer border, White on, Yellow;
 "LEFT TURN ONLY" Black, E;

SHEET NO. 54 OF 54 SIGN NO. 1



Raquel Cantu 11.05.20

TEXAS DEPARTMENT OF TRANSPORTATION
 IH-2
 LARGE SIGN LAYOUTS

© 2020		DRAWING DATE		FEDERAL DIST. NO.	STATE	FEDERAL PROJECT NO.	SHEET NO.
DN: LSJ	ORIGINAL	SEP. 2020			TEXAS		98
CK DN: GV				STATE DIST. NO.	COUNTY	CONTRACT NO.	SECTION NO.
DW: LSJ				PHARR	HIDALGO	6353	00 001
CK DW: GV							IH-2, ETC.

SHEET 13 OF 13

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DATE:
FILE:

SUMMARY OF LARGE SIGNS TO BE REMOVED

PLAN SHEET NO.	SIGN NO.	TYPE OF MOUNT	SIGN TEXT	REMOVE LARGE RSDS ASSMS
1/54	1	GROUND MOUNT		SIGN ONLY
2/54	1	GROUND MOUNT		SIGN ONLY
2/54	2	GROUND MOUNT		SIGN ONLY
2/54	3	GROUND MOUNT		*
3/54	1	OVERHEAD		SIGN ONLY
4/54	1	GROUND MOUNT		SIGN ONLY
5/54	1	GROUND MOUNT		SIGN ONLY
6/54	1	GROUND MOUNT		SIGN ONLY

PLAN SHEET NO.	SIGN NO.	TYPE OF MOUNT	SIGN TEXT	REMOVE LARGE RSDS ASSMS
7/54	1	OVERHEAD		SIGN ONLY
8/54			ALL EXISTING SIGNS TO REMAIN IN PLACE	
9/54	1	OVERHEAD		SIGN ONLY
10/54	1	OVERHEAD		SIGN ONLY
11/54	1	GROUND MOUNT		*
11/54	2	OVERHEAD		SIGN ONLY
12/54	1	GROUND MOUNT		SIGN ONLY
13/54	1	OVERHEAD		SIGN ONLY
14/54	1	GROUND MOUNT		*
14/54	2	GROUND MOUNT		SIGN ONLY

PLAN SHEET NO.	SIGN NO.	TYPE OF MOUNT	SIGN TEXT	REMOVE LARGE RSDS ASSMS
14/54	3	GROUND MOUNT		SIGN ONLY
15/54	1	OVERHEAD		SIGN ONLY
16/54	1	GROUND MOUNT		SIGN ONLY
17/54	1	GROUND MOUNT		SIGN ONLY
18/54	1	GROUND MOUNT		SIGN ONLY
18/54	2	GROUND MOUNT		SIGN ONLY

IH-2 SHEET 1 OF 4

SUMMARY OF LARGE SIGNS TO BE REMOVED

© TxDOT 2020			
DL-1 - CBR	REVISIONS		
DL-1 - GV	11-93	1-04	
DL-1 - CBR	8-95	9-08	
DL-1 - GV	5-01		
CONT	SECT	JOB	HIGHWAY
6353	00	001	IH-2, ETC.
DIST	COUNTY	SHEET NO.	
PHR	HIDALGO, ETC.	99	

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DATE:
FILE:

SUMMARY OF LARGE SIGNS TO BE REMOVED

PLAN SHEET NO.	SIGN NO.	TYPE OF MOUNT	SIGN TEXT	REMOVE LARGE RSDS ASSMS
19/54	1	OVERHEAD		SIGN ONLY
19/54	2	GROUND MOUNT		SIGN ONLY
20/54	2	GROUND MOUNT		SIGN ONLY
21/54	1	GROUND MOUNT		SIGN ONLY
21/54	2	GROUND MOUNT		SIGN ONLY
22/54	2	GROUND MOUNT		SIGN ONLY
23/54	1	GROUND MOUNT		SIGN ONLY
23/54	2	GROUND MOUNT		SIGN ONLY

PLAN SHEET NO.	SIGN NO.	TYPE OF MOUNT	SIGN TEXT	REMOVE LARGE RSDS ASSMS
24/54	1	GROUND MOUNT		SIGN ONLY
24/54	2	OVERHEAD		SIGN ONLY
25/54	1	OVERHEAD		SIGN ONLY
26/54	1	GROUND MOUNT		SIGN ONLY
27/54	1	GROUND MOUNT		SIGN ONLY
27/54	2	OVERHEAD		SIGN ONLY
27/54	3	OVERHEAD		SIGN ONLY
28/54	1	OVERHEAD		SIGN ONLY

PLAN SHEET NO.	SIGN NO.	TYPE OF MOUNT	SIGN TEXT	REMOVE LARGE RSDS ASSMS
29/54	1	OVERHEAD		SIGN ONLY
29/54	2	OVERHEAD		SIGN ONLY
29/54	3	OVERHEAD		SIGN ONLY
30/54	1	OVERHEAD		SIGN ONLY
31/54	1	GROUND MOUNT		✕
32/54	1	OVERHEAD		SIGN ONLY
33/54	1	OVERHEAD		SIGN ONLY

IH-2 SHEET 2 OF 4



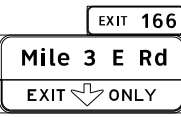


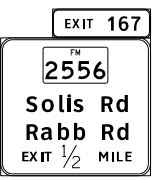
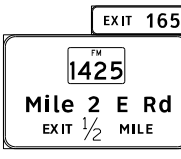
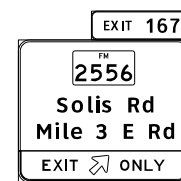
SUMMARY OF LARGE SIGNS TO BE REMOVED

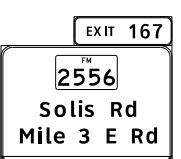

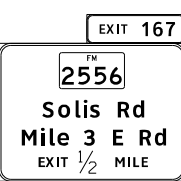
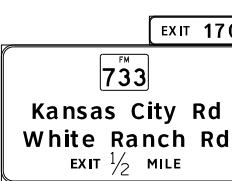
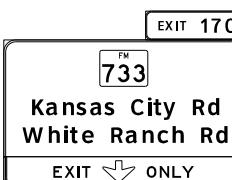
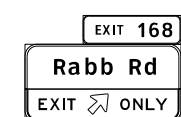
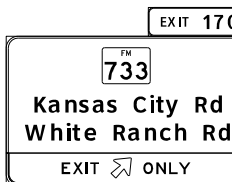
© TxDOT 2020			
DL-1 - CBR	11-93	REVISIONS	1-04
DL-1 - GV	8-95		9-08
DL-1 - CBR	5-01		
DL-1 - GV			
CONT	SECT	JOB	HIGHWAY
6353	00	001	IH-2, ETC.
DIST	COUNTY	SHEET NO.	
PHR	HIDALGO, ETC.	100	

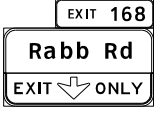
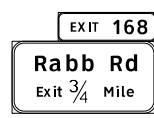
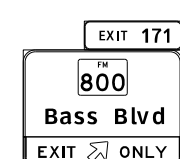



19

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SUMMARY OF LARGE SIGNS TO BE REMOVED

PLAN SHEET NO.	SIGN NO.	TYPE OF MOUNT	SIGN TEXT	REMOVE LARGE RSDS ASSMS
34/54	1	OVERHEAD		SIGN ONLY
34/54	2	OVERHEAD		SIGN ONLY
35/54	1	OVERHEAD		SIGN ONLY
36/54	1	OVERHEAD		SIGN ONLY
37/54	1	GROUND MOUNT		SIGN ONLY
37/54	2	GROUND MOUNT		SIGN ONLY
38/54	1	GROUND MOUNT		SIGN ONLY
39/54	1	GROUND MOUNT		SIGN ONLY

PLAN SHEET NO.	SIGN NO.	TYPE OF MOUNT	SIGN TEXT	REMOVE LARGE RSDS ASSMS
40/54	1	OVERHEAD		SIGN ONLY
40/54	2	OVERHEAD		SIGN ONLY
40/54	3	GROUND MOUNT		SIGN ONLY
41/54	1	GROUND MOUNT		SIGN ONLY
41/54	2	OVERHEAD		SIGN ONLY
41/54	3	OVERHEAD		SIGN ONLY
42/54	1	OVERHEAD		SIGN ONLY

PLAN SHEET NO.	SIGN NO.	TYPE OF MOUNT	SIGN TEXT	REMOVE LARGE RSDS ASSMS
42/54	2	OVERHEAD		SIGN ONLY
43/54	1	GROUND MOUNT		SIGN ONLY
44/54	1	OVERHEAD		SIGN ONLY
45/54	1	OVERHEAD		SIGN ONLY
45/54	2	OVERHEAD		SIGN ONLY
46/54	1	OVERHEAD		SIGN ONLY

IH-2 SHEET 3 OF 4

SUMMARY OF LARGE SIGNS TO BE REMOVED

© TxDOT 2020			
DL-1 - CBR	REVISIONS		
DL-1 - GV	11-93	1-04	
DL-1 - CBR	8-95	9-08	
DL-1 - GV	5-01		
CONT	SECT	JOB	HIGHWAY
6353	00	001	IH-2, ETC.
DIST	COUNTY	SHEET NO.	
PHR	HIDALGO, ETC.	101	

DATE:
FILE:

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DATE:
FILE:

SUMMARY OF LARGE SIGNS TO BE REMOVED

PLAN SHEET NO.	SIGN NO.	TYPE OF MOUNT	SIGN TEXT	REMOVE LARGE RSDS ASSMS
46/54	2	OVERHEAD		SIGN ONLY
47/54	1	GROUND MOUNT		SIGN ONLY
47/54	2	GROUND MOUNT		SIGN ONLY
48/54	1	GROUND MOUNT		SIGN ONLY
49/54	1	OVERHEAD		SIGN ONLY
50/54	1	OVERHEAD		SIGN ONLY
51/54	1	OVERHEAD		SIGN ONLY
51/54	2	OVERHEAD		SIGN ONLY

PLAN SHEET NO.	SIGN NO.	TYPE OF MOUNT	SIGN TEXT	REMOVE LARGE RSDS ASSMS
52/54	1	OVERHEAD		SIGN ONLY
53/54	1	OVERHEAD		SIGN ONLY
54/54	1	OVERHEAD		SIGN ONLY


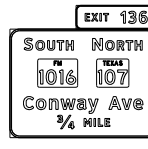




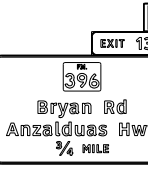
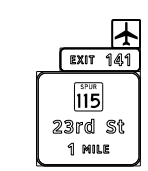
IH-2 SHEET 4 OF 4

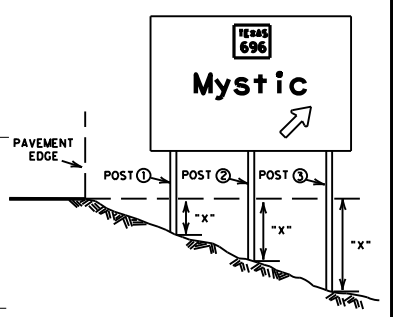
SUMMARY OF LARGE SIGNS TO BE REMOVED

© TxDOT 2020			
DN.1 - CBR	11-93	REVISIONS	1-04
CR.1 - GV	8-95		9-08
DN.1 - CBR	5-01		
CR.1 - GV			
CONT	SECT	JOB	HIGHWAY
6353	00	001	IH-2, ETC.
DIST	COUNTY	SHEET NO.	
PHR	HIDALGO, ETC.	102	

DATE: September 11, 2020
 FILE: T:\PHRTRF\Projects\RMC (Large Sign Project) 2020\Leos\H 69E\Sum Large Signs Install\1469E.dgn
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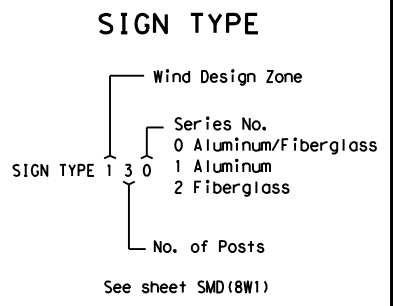
SUMMARY OF LARGE SIGNS

PLAN SHEET NO.	SIGN NO.	SIGN BACK-GROUND COLOR	SIGN TEXT	SIGN DIMENSIONS	PLAQUES, & OTHER ATTACHMENTS		BACKGROUND SUBSTRATE (SQ FT)		TYPE OF MOUNT	"X" DIMENSION			GALVANIZED STRUCTURAL STEEL				DRILLED SHAFT				RIP RAP CY
					DIRECT APPLY	* ALUMINUM (TYPE A)	GROUND MOUNT (TYPE G)	OVERHEAD (TYPE O)		post 1	post 2	post 3	SIZE	post 1	post 2	post 3	TOTAL WEIGHT LBS.	NON-REINF 12"φ	LINEAR FEET REINFORCED		
1/54	1	GREEN		8' x 2.5' 4' x 3' 16' x 12.5'			20 200														
			(E. B.)																		
2/54	1	GREEN		8.5' x 2.5' 15.5' x 11.5'	21.25		178.25														
			(W. B.)																		
2/54	2	GREEN		11.5' x 7'			80.5														
			(W. B.)																		
2/54	3	GREEN	 (10' OFFSET)	12' x 4.5'			54	221	0.25	0.40		S4x7.7	11.75	11.90	182.11		12.00			1.9	
			(E. B.)																		
3/54	1	GREEN		8.5' x 2.5' 5.3' x 3' 12.5' x 10.5' 12.5' x 2.75'	16 34.4		21.25 131.25					S4x7.7	10.5	10.5	161.70						
			(E. B.)																		
4/54	1	GREEN		14.5' x 7'			101.50														
			(W. B.)																		
5/54	1	GREEN		3' x 3' 8.5' x 2.5' 4' x 3' 19' x 11.5'	9 12		21.25 218.50														
			(W. B.)																		
6/54	1	GREEN		3' x 3' 8.5' x 2.5' 3' x 3' 11' x 10'	9 9		21.25 110														
			(E. B.)																		
PAGE TOTALS							18.00	1,005.25	152.50												
													PAGE TOTALS	349.81		12.00				1.9	



The "x" dimension is the elevation difference at the post between the ground and the edge of pavement or top of curb.
 Sign supports shall be located as shown on the plans, except that the Engineer may shift the sign supports, within design guidelines, where necessary to secure a more desirable location or to avoid conflict with utilities. Unless otherwise shown on the plans, the Contractor shall stake and the Engineer will verify all sign support locations.
 The post lengths listed here are approximations. The corrected post lengths will be furnished by the Contractor after the stud posts are placed.
 Tower heights shall be verified with the Engineer before fabrication.

* This column is for aluminum Type A and not direct apply. Direct apply is subsidiary to the sign.



SUMMARY OF LARGE SIGNS

SOLS IH-2

© TxDOT 2020
 DN: LSJ
 CK: GV
 DN: LSJ
 CK: GV

REVISIONS
 11-93 1-04
 8-95 9-08
 5-01

SHEET 1 OF 9

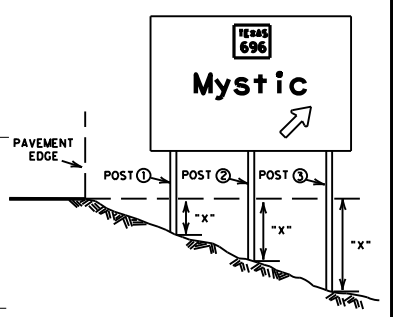
CONT	SECT	JOB	HIGHWAY
6353	00	001	IH 2, ETC.
DIST	COUNTY	SHEET NO.	
21	HIDALGO, ETC.	103	

19

DATE: September 11, 2020
 FILE: T:\PHRTRFOP\Projects\RM (Large Sign Project) 2020\Leos\H 69E\Sum Large Signs Install\1469E.dgn
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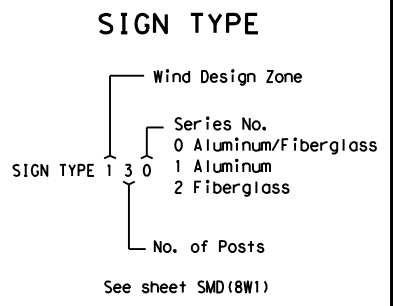
SUMMARY OF LARGE SIGNS

PLAN SHEET NO.	SIGN NO.	SIGN BACK-GROUND COLOR	SIGN TEXT	SIGN DIMENSIONS	PLAQUES, & OTHER ATTACHMENTS		BACKGROUND SUBSTRATE (SQ FT)		TYPE OF MOUNT	"X" DIMENSION			GALVANIZED STRUCTURAL STEEL				DRILLED SHAFT				RIP RAP CY	
					DIRECT APPLY	* ALUMINUM (TYPE A)	GROUND MOUNT (TYPE G)	OVERHEAD (TYPE O)		post 1	post 2	post 3	SIZE	LINEAR FEET post 1	LINEAR FEET post 2	LINEAR FEET post 3	TOTAL WEIGHT LBS.	NON-REINF 12"φ	LINEAR FEET REINFORCED 24"φ	30"φ		36"φ
7/54	1	GREEN		8.5' x 2.5' 15' x 8.5' 15' x 2.75'				21.25					S4x7.7	8.5	8.5		130.90					
			(W. B.)			41.25																
9/54	1	GREEN		10' x 2.5' 14' x 10.5' 4.6' x 3' 14' x 2.75'				25					S4x7.7	10.5	10.5		161.70					
			(W. B.)			14																
10/54	1	GREEN		8.5' x 2.5' 17.5' x 8.5' 17.5' x 2.5'				21.25					S4x7.7	8.5	8.5	8.5	196.35					
			(W. B.)			48.13																
11/54	1	GREEN		12' x 4.5'				54		221	0.55	1.16	S4x7.7	12.55	12.66		194.12	12.00			1.9	
			(10' OFFSET) (W. B.)																			
11/54	1	GREEN		10' x 2.5' 14' x 10.5' 4' x 3' 14' x 2.75'				25					S4x7.7	10.5	10.5		161.70					
			(W. B.)			12																
12/54	1	GREEN		10' x 2.5' 13.5' x 9.5' 4' x 3'				25														
			(W. B.)			12		128.25														
13/54	1	GREEN		10' x 2.5' 14' x 6.5' 14' x 2.75'				25					S4x7.7	6.5	6.5		100.10					
			(W. B.)			38.5		91														
14/54	1	GREEN		12' x 4.5'				54		221	1.5	1.6	S4x7.7	13.00	13.10		200.97	12.00			1.9	
			(10' OFFSET) (W. B.)																			
14/54	2	GREEN		13' x 6'				78														
			(W. B.)																			
14/54	3	GREEN		8.5' x 2.5' 11' x 10' 4' x 3'				21.25														
			(E. B.)			12		110														
PAGE TOTALS								470.50										1,145.84	24.00			3.8



The "X" dimension is the elevation difference at the post between the ground and the edge of pavement or top of curb.
 Sign supports shall be located as shown on the plans, except that the Engineer may shift the sign supports, within design guidelines, where necessary to secure a more desirable location or to avoid conflict with utilities. Unless otherwise shown on the plans, the Contractor shall stake and the Engineer will verify all sign support locations.
 The post lengths listed here are approximations. The corrected post lengths will be furnished by the Contractor after the stud posts are placed.
 Tower heights shall be verified with the Engineer before fabrication.

* This column is for aluminum Type A and not direct apply. Direct apply is subsidiary to the sign.



SUMMARY OF LARGE SIGNS
SOLS IH-2

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DN: LSJ	REVISIONS
CK: GV	11-93 1-04
DN: LSJ	8-95 9-08
CK: GV	5-01


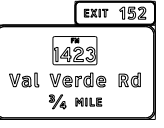
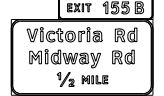

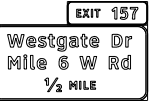

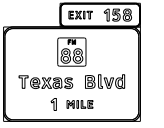


SHEET 2 OF 9

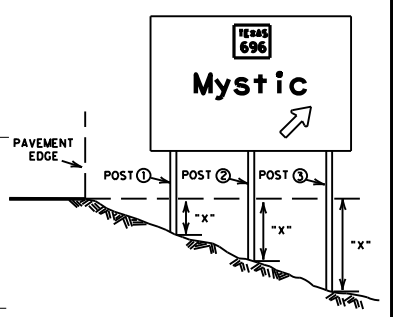
CONT	SECT	JOB	HIGHWAY
6353	00	001	IH 2, ETC.
DIST	COUNTY	SHEET NO.	
21	HIDALGO, ETC.	104	

19

DATE: September 11, 2020
 FILE: T:\PHRTRFOP\Projects\RMC (Large Sign Project) 2020\Leos\H 69E\SUM Large Signs Install\1469E.dgn
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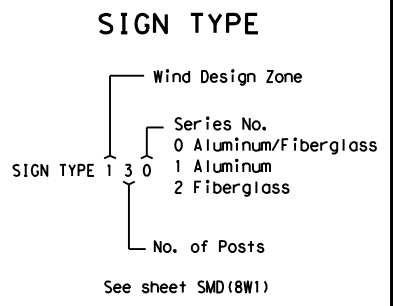
SUMMARY OF LARGE SIGNS

PLAN SHEET NO.	SIGN NO.	SIGN BACK-GROUND COLOR	SIGN TEXT	SIGN DIMENSIONS	PLAQUES, & OTHER ATTACHMENTS		BACKGROUND SUBSTRATE (SQ FT)		TYPE OF MOUNT	"X" DIMENSION			GALVANIZED STRUCTURAL STEEL				DRILLED SHAFT				RIP RAP CY
					DIRECT APPLY	* ALUMINUM (TYPE A)	GROUND MOUNT (TYPE G)	OVERHEAD (TYPE O)		post 1	post 2	post 3	SIZE	post 1	post 2	post 3	TOTAL WEIGHT LBS.	NON-REINF 12"φ	LINEAR FEET REINFORCED		
15/54	1	GREEN		8.5' x 2.5' 17' x 10.5' 4.6' x 3' 17' x 2.75'				21.25 178.50					S4x7.7	10.5	10.5	10.5	242.55				
			(W. B.)																		
16/54	1	GREEN		8.5' x 2.5' 17' x 10' 4.6' x 3'				21.25 170					S4x7.7	10	10	10	231.00				
			(W. B.)																		
17/54	1	GREEN		10' x 2.5' 15' x 8'				25 120					S4x7.7	8	8	8	184.80				
			(E. B.)																		
18/54	1	GREEN		8.5' x 2.5' 11' x 10' 4' x 3'				21.25 110					S4x7.7	10	10		154.00				
			(W. B.)																		
18/54	2	GREEN		8.5' x 2.5' 16.5' x 8'				21.25 132													
			(E. B.)																		
19/54	1	GREEN		10' x 2.5' 16' x 10.5' 4' x 3' 16' x 2.75'				25 168					S4x7.7	10.5	10.5	10.5	242.55				
			(W. B.)																		
19/54	2	GREEN		8.5' x 2.5' 14.5' x 10' 3' x 3'				21.25 145													
			(E. B.)																		
20/54	1	GREEN		10' x 2.5' 16' x 10' 4' x 3'				25 160													
			(W. B.)																		
21/54	1	GREEN		18' x 8'				144													
			(W. B.)																		



⊕ The "x" dimension is the elevation difference at the post between the ground and the edge of pavement or top of curb.
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 Tower heights shall be verified with the Engineer before fabrication.

* This column is for aluminum Type A and not direct apply. Direct apply is subsidiary to the sign.



SUMMARY OF LARGE SIGNS

SOLS IH-2




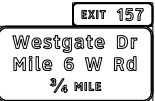
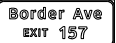

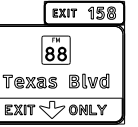
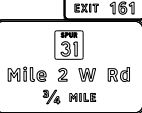
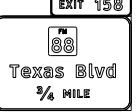
SHEET 3 OF 9

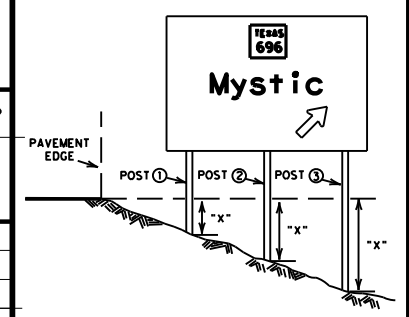
DN: LSJ		REVISIONS	
11-93	1-04	8-95	9-08
DN: LSJ	5-01		
CVT			
CONTRACT NO. 6353 00	SECT. 001	JOB IH 2, ETC.	HIGHWAY
DIST. 21	COUNTY HIDALGO, ETC.	SHEET NO. 105	

19

DATE: September 11, 2020
 FILE: T:\PHRTRFOP\Projects\RMC (Large Sign Project) 2020\Leos\H 69E\Sum Large Signs Install\1469E.dgn
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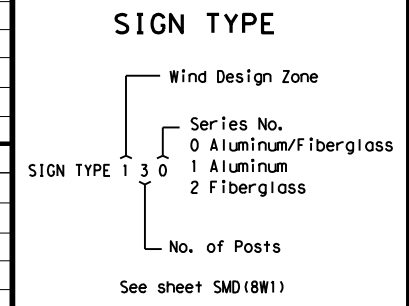
SUMMARY OF LARGE SIGNS

PLAN SHEET NO.	SIGN NO.	SIGN BACK-GROUND COLOR	SIGN TEXT	SIGN DIMENSIONS	PLAQUES, & OTHER ATTACHMENTS		BACKGROUND SUBSTRATE (SQ FT)		TYPE OF MOUNT	"X" DIMENSION			GALVANIZED STRUCTURAL STEEL				DRILLED SHAFT				RIP RAP CY							
					DIRECT APPLY	* ALUMINUM (TYPE A)	GROUND MOUNT (TYPE G)	OVERHEAD (TYPE O)		post 1	post 2	post 3	SIZE	LINEAR FEET			TOTAL WEIGHT LBS.	LINEAR FEET REINFORCED										
21/54	2	GREEN		10' x 2.5' 15' x 6'			25 90																					
(W. B.)																												
22/54	1	GREEN		22' x 9.5'			209																					
(E. B.)																												
23/54	1	GREEN		8.5' x 2.5' 12' x 10' 4.25' x 3'			21.25 120																					
(E. B.)																												
23/54	2	GREEN		8.5' x 2.5' 16.5' x 8'			21.25 132.00																					
(W. B.)																												
24/54	1	GREEN		12.5' x 5'			62.50																					
(W. B.)																												
24/54	2	GREEN		8.5' x 2.5' 14.5' x 10.5' 3' x 3' 14.5' x 2.75'		9 36.25		21.25 145				S4x7.7	10.5	10.5		161.70												
(W. B.)																												
25/54	1	GREEN		8.5' x 2.5' 14.5' x 10.5' 3' x 3' 14.5' x 2.75'		9 36.25		21.25 145				S4x7.7	10.5	10.5		161.70												
(W. B.)																												
26/54	1	GREEN		8.5' x 2.5' 16' x 10' 3' x 3'		9		21.25 160																				
(E. B.)																												
27/54	1	GREEN		8.5' x 2.5' 14.5' x 10' 3' x 3'		9		21.25 145																				
(W. B.)																												
PAGE TOTALS							1,028.50	332.50	PAGE TOTALS												323.40							



The "x" dimension is the elevation difference at the post between the ground and the edge of pavement or top of curb.
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 The tower heights listed here are approximations. The corrected post lengths will be furnished by the Contractor after the stud posts are placed.
 Tower heights shall be verified with the Engineer before fabrication.

* This column is for aluminum Type A and not direct apply. Direct apply is subsidiary to the sign.



SUMMARY OF LARGE SIGNS

SOLS IH-2

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DN: LSJ	REVISIONS
CK: GV	11-93 1-04
DN: LSJ	8-95 9-08
CK: GV	5-01

SHEET 4 OF 9

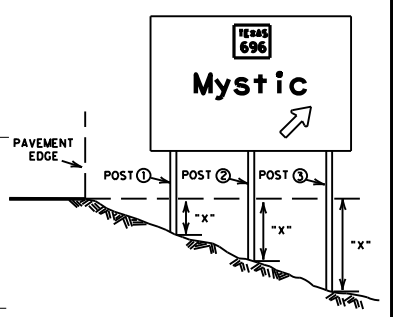
CONT	SECT	JOB	HIGHWAY
6353	00	001	IH 2, ETC.
DIST	COUNTY	SHEET NO.	
21	HIDALGO, ETC.	106	

19

DATE: September 11, 2020
 FILE: T:\PHRTRFOP\Projects\ARMC (Large Sign Project) 2020\Leos\H 69E\Sum Large Signs Install\1469E.dgn
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SUMMARY OF LARGE SIGNS

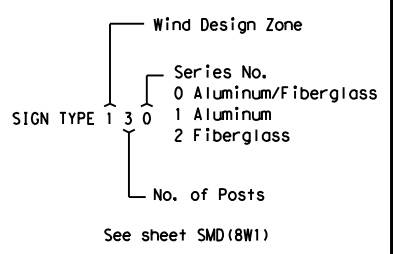
PLAN SHEET NO.	SIGN NO.	SIGN BACK-GROUND COLOR	SIGN TEXT	SIGN DIMENSIONS	PLAQUES, & OTHER ATTACHMENTS		BACKGROUND SUBSTRATE (SQ FT)		TYPE OF MOUNT	"X" DIMENSION			GALVANIZED STRUCTURAL STEEL				DRILLED SHAFT				RIP RAP CY	
					DIRECT APPLY	* ALUMINUM (TYPE A)	GROUND MOUNT (TYPE G)	OVERHEAD (TYPE O)		post ①	post ②	post ③	SIZE	post ①	post ②	post ③	TOTAL WEIGHT LBS.	NON-REINF 12"φ	LINEAR FEET REINFORCED 24"φ 30"φ 36"φ			
27/54	2	GREEN		3' x 3' 8.5' x 2.5' 14' x 8.5' 14' x 2.75'		9		21.25 160														
			(W. B.)																			
27/54	3	GREEN		8.5' x 2.5' 16' x 10.5' 3' x 3' 16' x 2.75'				21.25 168						S4x7.7	10.5	10.5	10.5	242.55				
			(E. B.)			9																
28/54	1	GREEN		8.5' x 2.5' 16' x 10' 3' x 3' 16' x 2.75'				21.25 160.00						S4x7.7	10	10	10	30				
			(E. B.)			9		44.00														
29/54	1	GREEN		8.5' x 2.5' 14.5' x 10.5' 4.25' x 3' 14.5' x 2.75'				21.25 152.25						S4x7.7	10.5	10.5		161.70				
			(E. B.)			12.75		39.90														
29/54	2	GREEN		10' x 2.5' 17' x 6.5' 17' x 2.75'				25 110.50						S4x7.7	7	7	7	161.70				
			(E. B.)			42.50																
29/54	3	GREEN		10' x 2.5' 17' x 6.5' 17' x 2.75'				25 110.50						S4x7.7	6.5	6.5	6.5	150.15				
			(E. B.)			42.50																
30/54	1	GREEN		8.5' x 2.5' 12' x 10' 4.25' x 3'				21.25 120														
			(W. B.)			12.75																
31/54	1	GREEN		12' x 4.5'				54	221	0.5	0.25			S4x7.7	12.00	11.75		182.88		12.00		1.9
			(W. B.)																			
32/54	1	GREEN		10' x 2.5' 14.5' x 10.5' 3.5' x 3'				25 152.25						S4x7.7	10.5	10.5		161.70				
			(E. B.)			10.50																



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 The post lengths listed here are approximations. The corrected post lengths will be furnished by the Contractor after the stud posts are placed.
 Tower heights shall be verified with the Engineer before fabrication.

* This column is for aluminum Type A and not direct apply. Direct apply is subsidiary to the sign.

SIGN TYPE



SUMMARY OF LARGE SIGNS SOLS IH-2

© TxDOT 2020		REVISIONS	
DN: LSJ	11-93	1-04	
CK: GV	8-95	9-08	
DN: LSJ	5-01		
CK: GV			
SHEET 5 OF 9			
CONT	SECT	JOB	HIGHWAY
6353	00	001	IH 2, ETC.
DIST	COUNTY	SHEET NO.	
21	HIDALGO, ETC.	107	

PAGE TOTALS

9 376.50 992.25

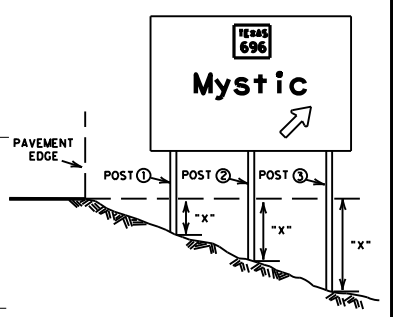
PAGE TOTALS

1,090.68 12.00 1.9

DATE: September 11, 2020
 FILE: T:\PHRTRF\Projects\RM (Large Sign Project) 2020\Leos\H 69E\Sum Large Signs Install\1469E.dgn

SUMMARY OF LARGE SIGNS

PLAN SHEET NO.	SIGN NO.	SIGN BACK-GROUND COLOR	SIGN TEXT	SIGN DIMENSIONS	PLAQUES, & OTHER ATTACHMENTS		BACKGROUND SUBSTRATE (SQ FT)		TYPE OF MOUNT	"X" DIMENSION			GALVANIZED STRUCTURAL STEEL				DRILLED SHAFT				RIP RAP CY	
					DIRECT APPLY	* ALUMINUM (TYPE A)	GROUND MOUNT (TYPE G)	OVERHEAD (TYPE O)		post ①	post ②	post ③	SIZE	post ①	post ②	post ③	TOTAL WEIGHT LBS.	NON-REINF 12"φ	LINEAR FEET REINFORCED 24"φ 30"φ 36"φ			
33/54	1	GREEN	EXIT 164 Mile 1 E Rd	8.5' x 2.5' 11.5' x 7'				21.25 80.50					S4x7.7	7	7			107.80				
34/54	1	GREEN	EXIT 165 1425 Mile 2 E Rd EXIT ONLY	8.5' x 2.5' 15.5' x 10.5' 4.75' x 3' 15.5' x 2.75'				21.25 162.75					S4x7.7	10.5	10.5	10.5		242.55				
34/54	2	GREEN	EXIT 165 1425 Mile 2 E Rd EXIT ONLY	8.5' x 2.5' 15.5' x 10' 4.75' x 3' 15.25' x 2.75'				21.25 155.00					S4x7.7	10	10	10		231.00				
35/54	1	GREEN	EXIT 166 Mile 3 E Rd EXIT ONLY	8.5' x 2.5' 15.5' x 6.5' 15.5' x 2.75'				21.25 100.75					S4x7.7	6.5	6.5	6.5		150.15				
36/54	1	GREEN	EXIT 166 Mile 3 E Rd EXIT ONLY	8.5' x 2.5' 15.5' x 6.5' 15.5' x 2.75'				21.25 100.75					S4x7.7	6.5	6.5	6.5		150.15				
37/54	1	GREEN	EXIT 165 1425 Mile 2 E Rd	8.5' x 2.5' 11.5' x 10.5' 4.75' x 2.75'				21.25 120.75														
37/54	2	GREEN	EXIT 167 2556 Sols Rd Rabb Rd 1/2 MILE	8.5' x 2.5' 11.5' x 12' 5.5' x 2.75'				21.25 138														
38/54	1	GREEN	EXIT 165 1425 Mile 2 E Rd 1/2 MILE	8.5' x 2.5' 15' x 9.5' 15' x 2.75'				21.25 142.50														
39/54	1	GREEN	EXIT 167 2556 Sols Rd Mile 3 E Rd EXIT ONLY	8.5' x 2.5' 15.5' x 12.5' 5.4' x 3' 15.5' x 2.75'				21.25 193.75					S4x7.7	12.5	12.5	12.5		242.55				
PAGE TOTALS								465.00	921.00					PAGE TOTALS				1,124.20				



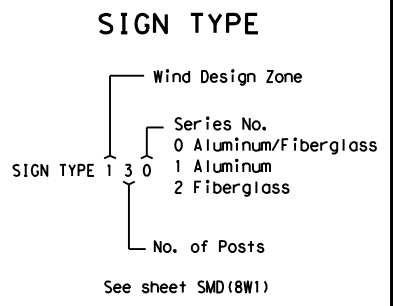
⊙ The "x" dimension is the elevation difference at the post between the ground and the edge of pavement or top of curb.

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The post lengths listed here are approximations. The corrected post lengths will be furnished by the Contractor after the stud posts are placed.

Tower heights shall be verified with the Engineer before fabrication.

* This column is for aluminum Type A and not direct apply. Direct apply is subsidiary to the sign.




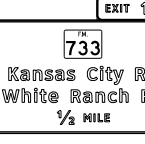


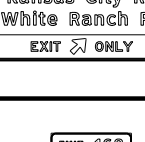
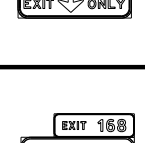
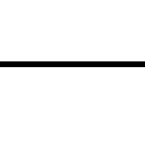


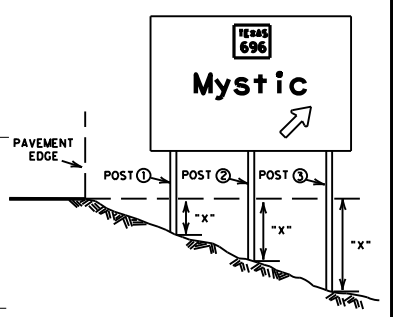
SUMMARY OF LARGE SIGNS SOLS IH-2

© TxDOT 2020		REVISIONS	
DN: LSJ	11-93	1-04	
CK: GV	8-95	9-08	
DN: LSJ	5-01		
CK: GV			
SHEET 6 OF 9			
CONT	SECT	JOB	HIGHWAY
6353	00	001	IH 2, ETC.
DIST	COUNTY	SHEET NO.	
21	HIDALGO, ETC.	108	

DATE: September 11, 2020
 FILE: T:\PHRTRFOP\Projects\RM (Large Sign Project) 2020\Leos\H 69E\SUM Large Signs Install\1469E.dgn
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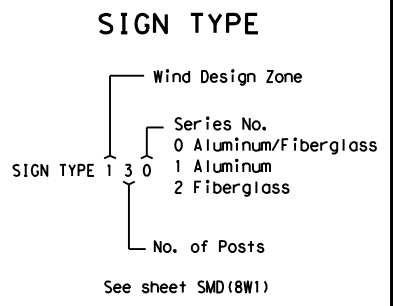
SUMMARY OF LARGE SIGNS

PLAN SHEET NO.	SIGN NO.	SIGN BACK-GROUND COLOR	SIGN TEXT	SIGN DIMENSIONS	PLAQUES, & OTHER ATTACHMENTS		BACKGROUND SUBSTRATE (SQ FT)		TYPE OF MOUNT	"X" DIMENSION			GALVANIZED STRUCTURAL STEEL				DRILLED SHAFT				RIP RAP CY		
					DIRECT APPLY	* ALUMINUM (TYPE A)	GROUND MOUNT (TYPE G)	OVERHEAD (TYPE O)		post 1	post 2	post 3	SIZE	post 1	post 2	post 3	TOTAL WEIGHT LBS.	NON-REINF 12"φ	LINEAR FEET REINFORCED 24"φ 30"φ 36"φ				
40/54	1	GREEN		8.5' x 2.5' 15.5' x 12.5' 5.4' x 3' 15.5' x 2.75'				21.25 193.75					S4x7.7	12.5	12.5	12.5	288.75						
			(W. B.)																				
40/54	2	GREEN		8.5' x 2.5' 15' x 12.5' 4' x 3' 15.5' x 2.75'				21.25 187.50					S4x7.7	12.5	12.5	12.5	288.75						
			(E. B.)																				
40/54	3	GREEN		8.5' x 2.5' 15' x 12' 5.4' x 3'				21.25 180															
			(W. B.)																				
41/54	1	GREEN		8.5' x 2.5' 20' x 12' 4' x 3'				21.25 240															
			(E. B.)																				
41/54	2	GREEN		8.5' x 2.5' 20.5' x 12.5' 4' x 3'				21.25 256.25					S4x7.7	12.5	12.5	12.5	385.00						
			(E. B.)																				
41/54	3	GREEN		8.5' x 2.5' 12' x 7'				21.25 84					S4x7.7	7	7	7	161.70						
			(W. B.)																				
42/54	1	GREEN		8.5' x 2.5' 20.5' x 12.5' 4' x 3' 20.5' x 2.75'				21.25 256.25					S4x7.7	12.5	12.5	12.5	385.00						
			(W. B.)																				
42/54	2	GREEN		8.5' x 2.5' 12' x 7'				21.25 84					S4x7.7	7	7	7	161.70						
			(E. B.)																				
43/54	1	GREEN		8.5' x 2.5' 12' x 6'				21.25 72															
			(W. B.)																				
PAGE TOTALS								555.75	1,189.25														
													PAGE TOTALS	1,670.90									



The "x" dimension is the elevation difference at the post between the ground and the edge of pavement or top of curb.
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* This column is for aluminum Type A and not direct apply. Direct apply is subsidiary to the sign.



SUMMARY OF LARGE SIGNS

SOLS IH-2

© TxDOT 2020

DN: LSJ	REVISIONS
CK: GV	11-93 1-04
DN: LSJ	8-95 9-08
CK: GV	5-01

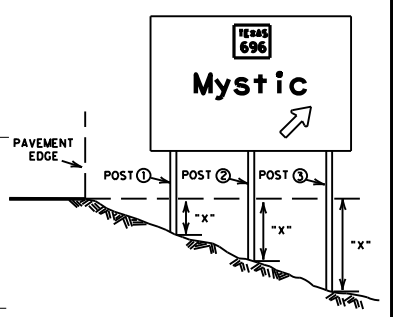
SHEET 7 OF 9

CONTRACT NO.	SECT.	JOB	HIGHWAY
6353	00	001	IH 2, ETC.
DIST.	COUNTY	SHEET NO.	
21	HIDALGO, ETC.	109	

DATE: September 11, 2020
 FILE: T:\PHRTRF\Projects\RM (Large Sign Project) 2020\Leos\H 69E\Sum Large Signs Install\1469E.dgn
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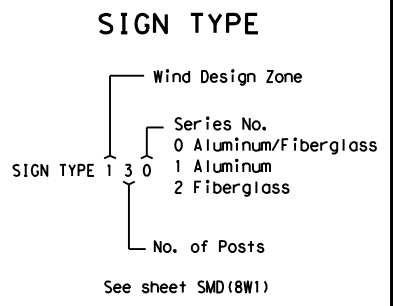
SUMMARY OF LARGE SIGNS

PLAN SHEET NO.	SIGN NO.	SIGN BACK-GROUND COLOR	SIGN TEXT	SIGN DIMENSIONS	PLAQUES, & OTHER ATTACHMENTS		BACKGROUND SUBSTRATE (SQ FT)		TYPE OF MOUNT	"X" DIMENSION			GALVANIZED STRUCTURAL STEEL				DRILLED SHAFT				RIP RAP CY
					DIRECT APPLY	* ALUMINUM (TYPE A)	GROUND MOUNT (TYPE G)	OVERHEAD (TYPE O)		post 1	post 2	post 3	SIZE	post 1	post 2	post 3	TOTAL WEIGHT LBS.	NON-REINF 12"φ	LINEAR FEET REINFORCED 24"φ 30"φ 36"φ		
44/54	1	GREEN		8.5' x 2.5' 14' x 10.5' 4' x 3' 14' x 2.75'				21.25					S4x7.7	10.5	10.5	10.5	242.55				
			(E. B.)																		
45/54	1	GREEN		8.5' x 2.5' 20' x 7' 20' x 2.75'				21.25					S4x7.7	7	7	7	215.60				
			(W. B.)																		
45/54	2	GREEN		8.5' x 2.5' 20.5' x 7' 20.5' x 2.75'				21.25					S4x7.7	7	7	7	215.60				
			(E. B.)																		
46/54	1	GREEN		8.5' x 2.5' 20' x 7' 20' x 2.75'				21.25					S4x7.7	7	7	7	215.60				
			(W. B.)																		
46/54	2	GREEN		8.5' x 2.5' 20.5' x 7' 20.5' x 2.75'				21.25					S4x7.7	7	7	7	215.60				
			(E. B.)																		
47/54	1	GREEN		8.5' x 2.5' 20' x 6'				21.25													
			(W. B.)					120													
47/54	2	GREEN		13' x 7'				91													
			(E. B.)																		
48/54	1	GREEN		8.5' x 2.5' 20' x 10.5' 5' x 3' 20' x 2.75'				21.25					S4x7.7	10.5	10.5	10.5	323.40				
			(E. B.)					210													
49/54	1	GREEN		8.5' x 2.5' 20' x 10.5' 5' x 3' 20' x 2.75'				21.25					S4x7.7	10.5	10.5	10.5	323.40				
			(E. B.)					210													



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SUMMARY OF LARGE SIGNS
SOLS IH-2

© TxDOT 2020

DN: LSJ	REVISIONS
CK: GV	11-93 1-04
DN: LSJ	8-95 9-08
CK: GV	5-01

SHEET 8 OF 9




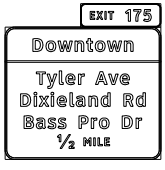


CONT	SECT	JOB	HIGHWAY
6353	00	001	IH 2, ETC.
DIST	COUNTY	SHEET NO.	
21	HIDALGO, ETC.	110	

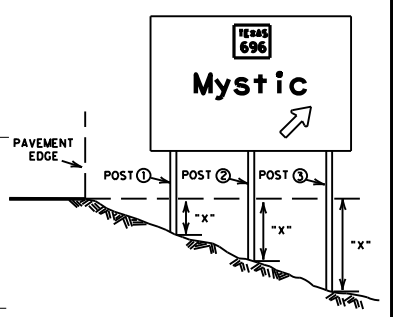
PAGE TOTALS 232.25 1,282.75

PAGE TOTALS 1,751.75

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 DATE: September 11, 2020
 FILE: T:\PHRTRFOP\Projects\RMC (Large Sign Project) 2020\Leos\IH 69E\SUM Large Signs Install\1469E.dgn

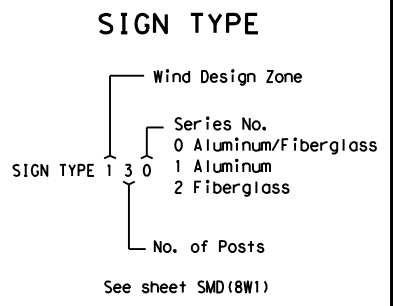
SUMMARY OF LARGE SIGNS

PLAN SHEET NO.	SIGN NO.	SIGN BACK-GROUND COLOR	SIGN TEXT	SIGN DIMENSIONS	PLAQUES, & OTHER ATTACHMENTS		BACKGROUND SUBSTRATE (SQ FT)		TYPE OF MOUNT	"X" DIMENSION			GALVANIZED STRUCTURAL STEEL				DRILLED SHAFT				RIP RAP CY	
					DIRECT APPLY	* ALUMINUM (TYPE A)	GROUND MOUNT (TYPE G)	OVERHEAD (TYPE O)		post 1	post 2	post 3	SIZE	post 1	post 2	post 3	TOTAL WEIGHT LBS.	NON-REINF 12"φ	LINEAR FEET REINFORCED 24"φ	30"φ		36"φ
50/54	1	GREEN		8.5' x 2.5' 15.5' x 10.5' 3' x 3' 15.5' x 2.75'				21.25					S4x7.7	10.5	10.5	10.5	242.55					
			(E. B.)																			
51/54	1	GREEN		8.5' x 2.5' 20.5' x 7' 20.5' x 2.75'				21.25					S4x7.7	7	7	7	7	215.60				
			(W. B.)																			
51/54	2	GREEN		15.5' x 10.5' 3' x 3' 15.5' x 2.75'				162.75					S4x7.7	10.5	10.5	10.5	242.55					
			(E. B.)																			
52/54	1	GREEN		8.5' x 2.5' 16.5' x 14'				21.25					S4x7.7	14	14	14	323.40					
			(E. B.)																			
53/54	1	GREEN		8.5' x 2.5' 16.5' x 14.5' 16.5' x 2.75'				21.25					S4x7.7	14.5	14.5	14.5	334.95					
			(E. B.)																			
54/54	1	GREEN		16' x 9.5' 16' x 2.75'				152.00					S4x7.7	9.5	9.5	9.5	219.45					
			(W. B.)																			



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SUMMARY OF LARGE SIGNS SOLS IH-2

© TxDOT 2020			
DN: LSJ	11-93	1-04	
CK: GV	8-95	9-08	
DN: LSJ	5-01		
CK: GV			
SHEET 9 OF 9			
CONT	SECT	JOB	HIGHWAY
6353	00	001	IH 2, ETC.
DIST	COUNTY		SHEET NO.
21	MIDALGO, ETC.		111

PAGE TOTALS
GRAND TOTAL

27.00	5,249.75	1,176.25
		7,218.00

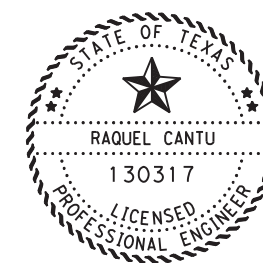
PAGE TOTALS
GRAND TOTAL

1,578.50				
10,089.98	48.00			7.6

WARNING
 ILLEGAL TO CARRY
 FIREARMS/AMMUNITION
 INTO MEXICO
 PENALTY - PRISON

WARNING
 ILLEGAL TO CARRY
 FIREARMS/AMMUNITION
 INTO MEXICO
 PENALTY - PRISON

N
 SCALE: N. T. S.



Raquel Cantu 11.06.20

LEGEND

- LARGE SIGN TO BE REMOVED
- LARGE SIGN TO BE INSTALLED
- SMALL SIGN TO BE REMOVED
- SMALL SIGN TO BE INSTALLED
- SIGN TO REMAIN IN PLACE
- LARGE SIGN TO BE RELOCATED

EXIT 1A
 U T Brownsville
 Texas Southmost
 College
 NEXT EXIT

EXIT 1A
 TEXAS 4
 Intl Blvd
 Intl Airport
 Gateway Intl Bridge
 1/4 MILE

EXIT 1A
 TEXAS 4
 Intl Blvd
 Intl Airport
 Gateway Intl Bridge
 EXIT 1/4 MILE

TEXAS DEPARTMENT OF TRANSPORTATION
IH-69E
LARGE SIGN LAYOUTS

© 2020 SHEET 1 OF 53

DR: L.S.J	DRAWING: ORIGINAL	DATE: SEP. 2020	FED. PROJ. NO.	STATE: TEXAS	FEDERAL PROJECT NO.	SHEET NO.: 112
CK DR: GV			STATE DIST. NO.: PHARR	COUNTY: HIDALGO	CONTROL NO.: 6353	SECTION NO.: 00
DR: L.S.J					JOB NO.: 00	HIGHWAY NO.: IH-2
CK DR: GV				ETC.		ETC.

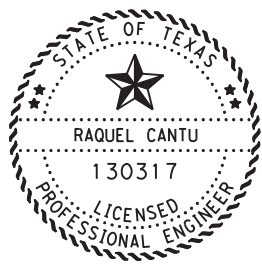
FREWAY ENDS
1/2 MILE

WARNING
ILLEGAL TO CARRY
FIREARMS/AMMUNITION
INTO MEXICO
PENALTY - PRISON
BY MEXICAN LAW

N
SCALE: N. T. S.



EXIT
1A
E5-1C



Raquel Cantu 11.06.20

LEGEND

- LARGE SIGN TO BE REMOVED
- LARGE SIGN TO BE INSTALLED
- SMALL SIGN TO BE REMOVED
- SMALL SIGN TO BE INSTALLED
- SIGN TO REMAIN IN PLACE
- LARGE SIGN TO BE RELOCATED

EXIT 1A

 Intl Blvd
 Intl Airport
 Gateway Intl Bridge

EXIT 1A

 Intl Blvd
 Intl Airport
 Gateway Intl Bridge

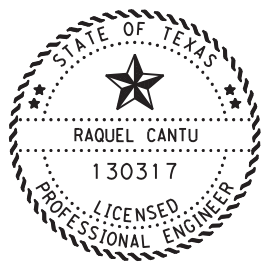
TEXAS DEPARTMENT OF TRANSPORTATION
IH-69E
LARGE SIGN LAYOUTS

© 2020 SHEET 2 OF 53

DR: L.S.J.	DRAWING	DATE	TITLE NO.	STATE	FEDERAL PROJECT NO.	SHEET
CK: DV: G.V.	ORIGINAL	SEP. 2020		TEXAS		113
DR: L.S.J.			STATE DIST. NO.	COUNTY	CONTROL NO.	SECTION NO.
CK: DV: G.V.			PHARR	HIDALGO	6353	00 00

ETC. IH-2. ETC.

SCALE: N. T. S.



Raquel Cantu 11.06.20

LEGEND

- LARGE SIGN TO BE REMOVED
- LARGE SIGN TO BE INSTALLED
- SMALL SIGN TO BE REMOVED
- SMALL SIGN TO BE INSTALLED
- SIGN TO REMAIN IN PLACE
- LARGE SIGN TO BE RELOCATED

EXIT 2
Boca Chica Blvd
 1/2 MILE

EXIT 2
Boca Chica Blvd
 EXIT 1/2 MILE

EXIT 2
Brownsville - South Padre Island Intl Airport

EXIT 2
Brownsville - South Padre Island Intl Airport

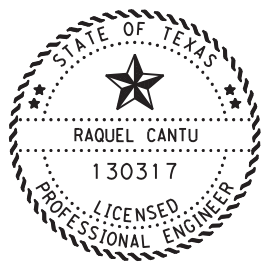
TEXAS DEPARTMENT OF TRANSPORTATION

IH-69E

LARGE SIGN LAYOUTS

© 2020 SHEET 3 OF 53

DR: L.S.J	DRAWING: ORIGINAL	DATE: SEP. 2020	FED. DIST. NO.:	STATE: TEXAS	FEDERAL PROJECT NO.:	SHEET NO.:
DR: L.S.J			STATE DIST. NO.:	COUNTY: PHARR	CONTROL NO.:	SECTION NO.:
DR: GV				HIDALGO	6353 00 00	JOB NO.:
				ETC.		JOB NO.:
						114
						IH-2
						ETC.



Raquel Cantu 11.06.20

LEGEND

- LARGE SIGN TO BE REMOVED
- LARGE SIGN TO BE INSTALLED
- SMALL SIGN TO BE REMOVED
- SMALL SIGN TO BE INSTALLED
- SIGN TO REMAIN IN PLACE
- LARGE SIGN TO BE RELOCATED



TEXAS DEPARTMENT OF TRANSPORTATION

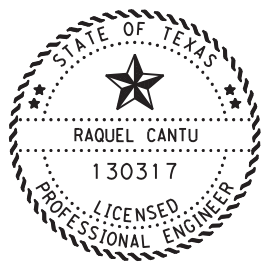
IH-69E

LARGE SIGN LAYOUTS

© 2020 SHEET 4 OF 53

DR: L.S.J.	DRAWING: ORIGINAL	DATE: SEP. 2020	FED. PROJ. NO.:	STATE: TEXAS	FEDERAL PROJECT NO.:	SHEET NO.:
CK: DR: G.V.						115
DR: L.S.J.			STATE DIST. NO.:	COUNTY:	CONTROL NO.:	SECTION NO.:
CK: DR: G.V.			PHARR	HIDALGO	6353	00 00

ETC. ETC.



Raquel Cantu 11.06.20

LEGEND

- LARGE SIGN TO BE REMOVED
- LARGE SIGN TO BE INSTALLED
- SMALL SIGN TO BE REMOVED
- SMALL SIGN TO BE INSTALLED
- SIGN TO REMAIN IN PLACE
- LARGE SIGN TO BE RELOCATED



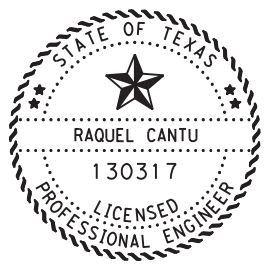
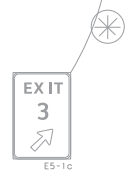
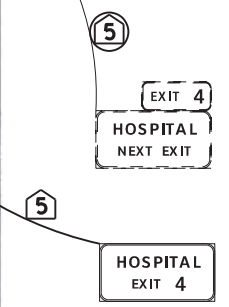
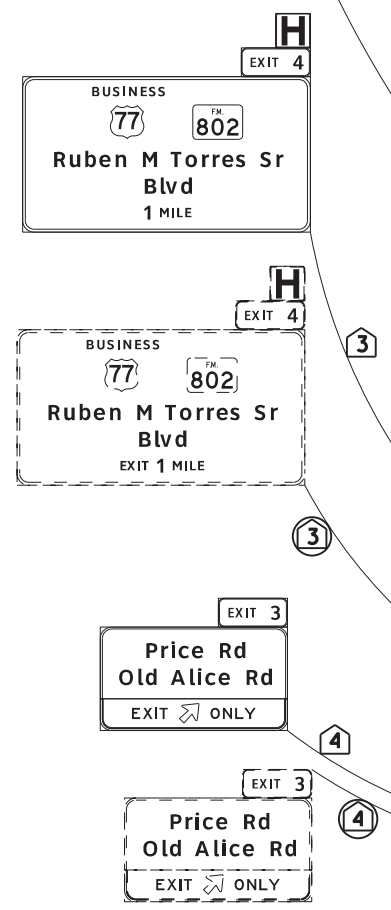
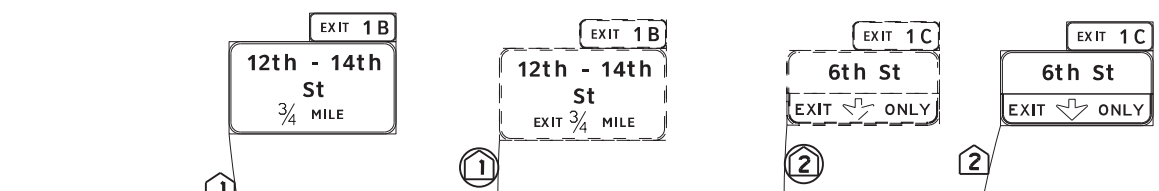
TEXAS DEPARTMENT OF TRANSPORTATION
IH-69E
LARGE SIGN LAYOUTS

© 2020 SHEET 5 OF 53

DR: L.S.J.	DRAWING: ORIGINAL	DATE: SEP. 2020	FED. PROJ. NO.:	STATE: TEXAS	FEDERAL PROJECT NO.:	SHEET NO.:
DR: L.S.J.	STATE DIST. NO.:	COUNTY: PHARR	CONTROL NO.:	SECTION NO.:	JOB NO.:	HIGHWAY NO.:
CK DR: G.V.			6353	00	00	IH-2

ETC. ETC.

N
SCALE: N. T. S.



Raquel Cantu 11.06.20

LEGEND

- LARGE SIGN TO BE REMOVED
- LARGE SIGN TO BE INSTALLED
- SMALL SIGN TO BE REMOVED
- SMALL SIGN TO BE INSTALLED
- SIGN TO REMAIN IN PLACE
- LARGE SIGN TO BE RELOCATED

TEXAS DEPARTMENT OF TRANSPORTATION

IH-69E

LARGE SIGN LAYOUTS

© 2020 SHEET 6 OF 53

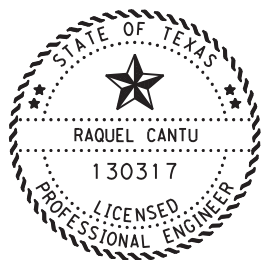
DR: L.S.J.	DRAWING: ORIGINAL	DATE: SEP. 2020	FED. DIST. NO.: PHARR	STATE: TEXAS	FEDERAL PROJECT NO.: 6353 00 00	SHEET NO.: 117
CK: DR: GV						

ETC. ETC.

TEXAS TRAVEL
INFORMATION CENTER
23 MILES
OFICINA DE TURISMO
37 KM

TEXAS TRAVEL
INFORMATION CENTER
23 MILES
OFICINA DE TURISMO
37 KM

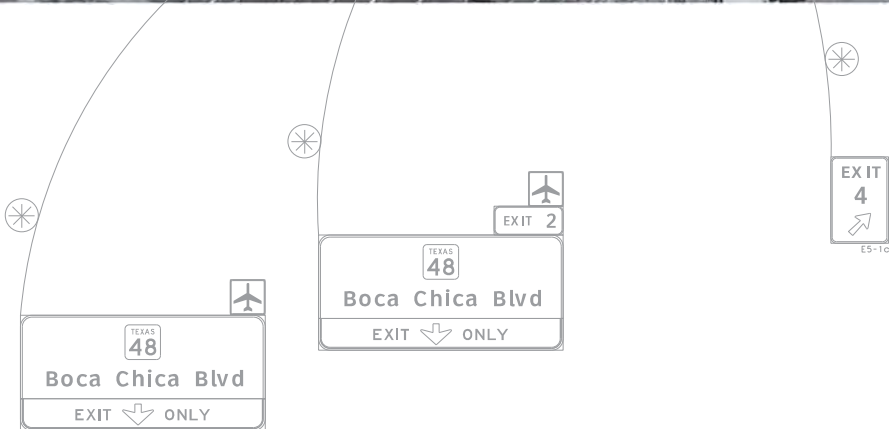
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SCALE: N. T. S.



Raquel Cantu 11.06.20

LEGEND

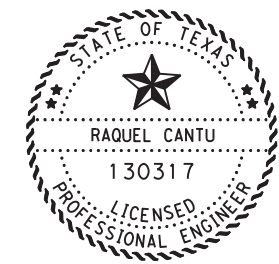
- LARGE SIGN TO BE REMOVED
- LARGE SIGN TO BE INSTALLED
- SMALL SIGN TO BE REMOVED
- SMALL SIGN TO BE INSTALLED
- SIGN TO REMAIN IN PLACE
- LARGE SIGN TO BE RELOCATED



TEXAS DEPARTMENT OF TRANSPORTATION
IH-69E
LARGE SIGN LAYOUTS

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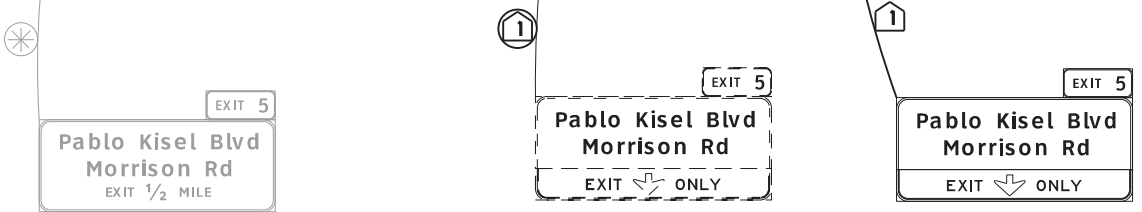
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CK DRW	GV	ORIGINAL	SEP. 2020		TEXAS		118
DRW	LSJ			STATE DIST. NO.	COUNTY	CONTROL NO.	SECTION NO.
CK DRW	GV			PHARR	HIDALGO	6353	00 00
							JOB NO.
							00
							118
							ETC.



Raquel Cantu 11.06.20

LEGEND

- LARGE SIGN TO BE REMOVED
- LARGE SIGN TO BE INSTALLED
- SMALL SIGN TO BE REMOVED
- SMALL SIGN TO BE INSTALLED
- SIGN TO REMAIN IN PLACE
- LARGE SIGN TO BE RELOCATED



TEXAS DEPARTMENT OF TRANSPORTATION

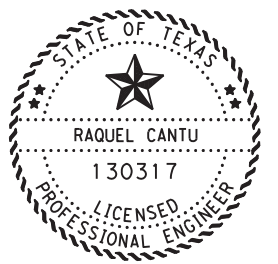
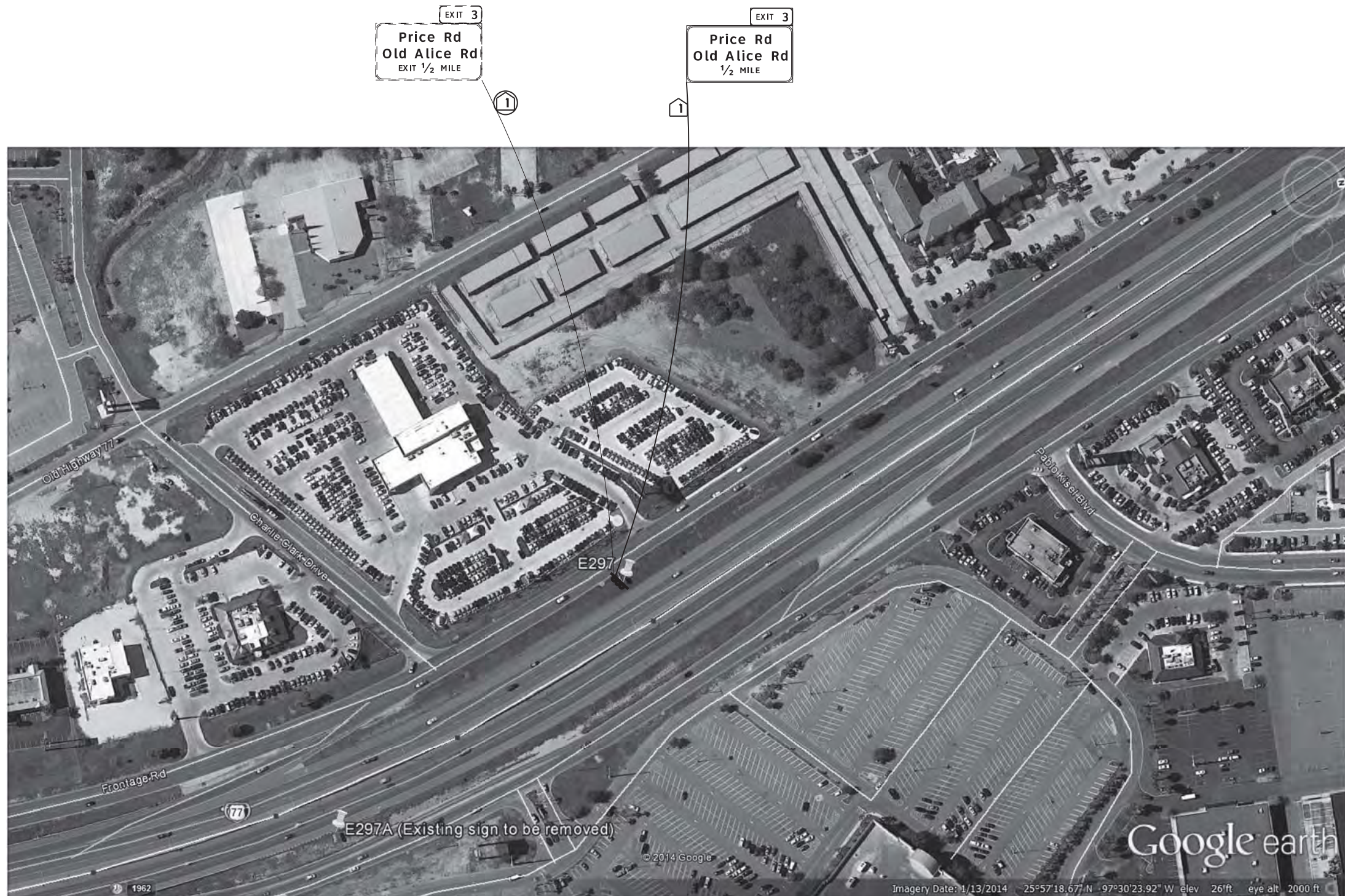
IH-69E

LARGE SIGN LAYOUTS

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DR: L.S.J	DRAWING	DATE	FED. PROJ. NO.	STATE	FEDERAL PROJECT NO.	SHEET NO.
CK: DV: G.V	ORIGINAL	SEP. 2020		TEXAS		119
DR: L.S.J			STATE DIST. NO.	COUNTY	CONTROL NO.	SECTION NO.
CK: DV: G.V			PHARR	HIDALGO	6353	00 00

ETC. ETC.



Raquel Cantu 11.06.20

LEGEND

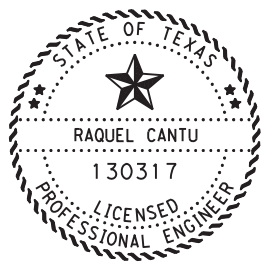
-  LARGE SIGN TO BE REMOVED
-  LARGE SIGN TO BE INSTALLED
-  SMALL SIGN TO BE REMOVED
-  SMALL SIGN TO BE INSTALLED
-  SIGN TO REMAIN IN PLACE
-  LARGE SIGN TO BE RELOCATED

TEXAS DEPARTMENT OF TRANSPORTATION
IH-69E
LARGE SIGN LAYOUTS

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DR: L.S.J	DRAWING	DATE	FED. PROJ. NO.	STATE	FEDERAL PROJECT NO.	SHEET NO.
CK: DR: G.V	ORIGINAL	SEP. 2020		TEXAS		120
DR: L.S.J			STATE DIST. NO.	COUNTY	CONTROL NO.	SECTION NO.
CK: DR: G.V			PHARR	HIDALGO	6273	50 001

ETC. IH-2, ETC.



Raquel Cantu 11.06.20

LEGEND

- LARGE SIGN TO BE REMOVED
- LARGE SIGN TO BE INSTALLED
- SMALL SIGN TO BE REMOVED
- SMALL SIGN TO BE INSTALLED
- SIGN TO REMAIN IN PLACE
- LARGE SIGN TO BE RELOCATED



		TEXAS DEPARTMENT OF TRANSPORTATION			
		IH-69E LARGE SIGN LAYOUTS			
© 2020		SHEET 10 OF 53			
DR: L.S.J.	DRAWING: ORIGINAL	DATE: SEP. 2020	FED. PROJ. NO.:	STATE: TEXAS	SHEET NO.: 121
DR: L.S.J.			STATE DIST. NO.: PHARR	COUNTY: HIDALGO	FEDERAL PROJECT NO.: 6353 00 00
DR: L.S.J.					JOB NO.: IH-2
					ETC.

N
SCALE: N. T. S.



Brownsville
Business District
NEXT 8 EXITS

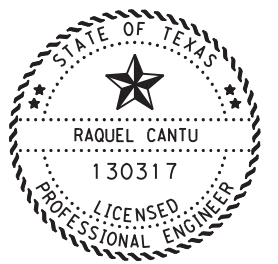
EXIT 6
HOSPITAL
NEXT EXIT

EXIT 8
Merryman Rd
EXIT 1/2 MILE

E282A (Brownsville Business District Next 8 Exits)

Existing Logo Sign

Google earth



Raquel Cantu 11.06.20

LEGEND

- LARGE SIGN TO BE REMOVED
- LARGE SIGN TO BE INSTALLED
- SMALL SIGN TO BE REMOVED
- SMALL SIGN TO BE INSTALLED
- SIGN TO REMAIN IN PLACE
- LARGE SIGN TO BE RELOCATED

EXIT 7
ES-10

EXIT 8
Sports Park
Blvd
EXIT 8

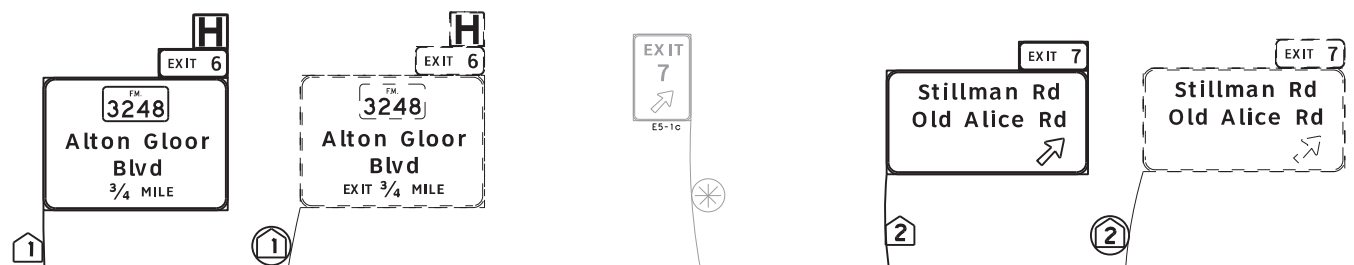
EXIT 8
Sports Park
Blvd
NEXT EXIT

TEXAS DEPARTMENT OF TRANSPORTATION
IH-69E
LARGE SIGN LAYOUTS

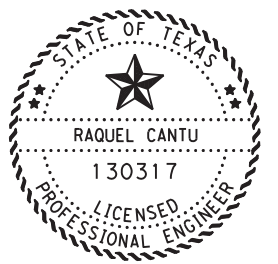
© 2020 SHEET 11 OF 53

DR: L.S.J.	DRAWING	DATE	FED. PROJ. NO.	STATE	FEDERAL PROJECT NO.	SHEET
CK: DR: G.V.	ORIGINAL	SEP. 2020		TEXAS		122
DR: L.S.J.			STATE DIST. NO.	COUNTY	CONTROL NO.	SECTION NO.
CK: DR: G.V.			PHARR	HIDALGO	6353	00 00

ETC. IH-2. ETC.



SCALE: N. T. S.



Raquel Cantu 11.06.20

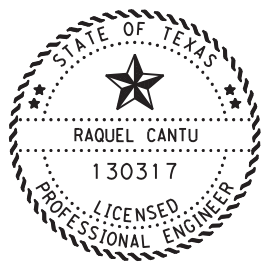
LEGEND

- LARGE SIGN TO BE REMOVED
- LARGE SIGN TO BE INSTALLED
- SMALL SIGN TO BE REMOVED
- SMALL SIGN TO BE INSTALLED
- SIGN TO REMAIN IN PLACE
- LARGE SIGN TO BE RELOCATED

TEXAS DEPARTMENT OF TRANSPORTATION
IH-69E
LARGE SIGN LAYOUTS

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DR: L.S.J	DRAWING: ORIGINAL	DATE: SEP. 2020	FED. PROJ. NO.	STATE: TEXAS	FEDERAL PROJECT NO.	SHEET NO. 123
DR: L.S.J	CONTROL NO.	SECTION NO.	JOB NO.	HIGHWAY NO. IH-2	ETC.	



Raquel Cantu 11.06.20

LEGEND

- LARGE SIGN TO BE REMOVED
- LARGE SIGN TO BE INSTALLED
- SMALL SIGN TO BE REMOVED
- SMALL SIGN TO BE INSTALLED
- SIGN TO REMAIN IN PLACE
- LARGE SIGN TO BE RELOCATED

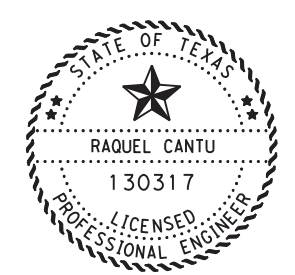


TEXAS DEPARTMENT OF TRANSPORTATION
IH-69E
LARGE SIGN LAYOUTS

© 2020 SHEET 13 OF 53

DR: L.S.J.	DRAWING: ORIGINAL	DATE: SEP. 2020	FED. DIST. NO.: PHARR	STATE: TEXAS	FEDERAL PROJECT NO.: 6353 00 00	SHEET NO.: 124
CK: DR: G.V.	DR: L.S.J.	CK: DR: G.V.	COUNTY: HIDALGO	CONTROL NO.: 00	SECTION NO.: 00	JOB NO.: IH-2

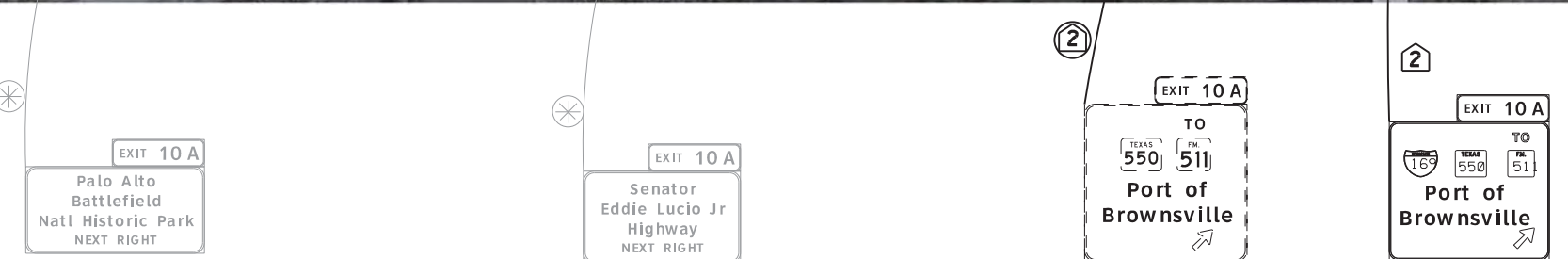
ETC. ETC.



Raquel Cantu 11.06.20

LEGEND

- LARGE SIGN TO BE REMOVED
- LARGE SIGN TO BE INSTALLED
- SMALL SIGN TO BE REMOVED
- SMALL SIGN TO BE INSTALLED
- SIGN TO REMAIN IN PLACE
- LARGE SIGN TO BE RELOCATED

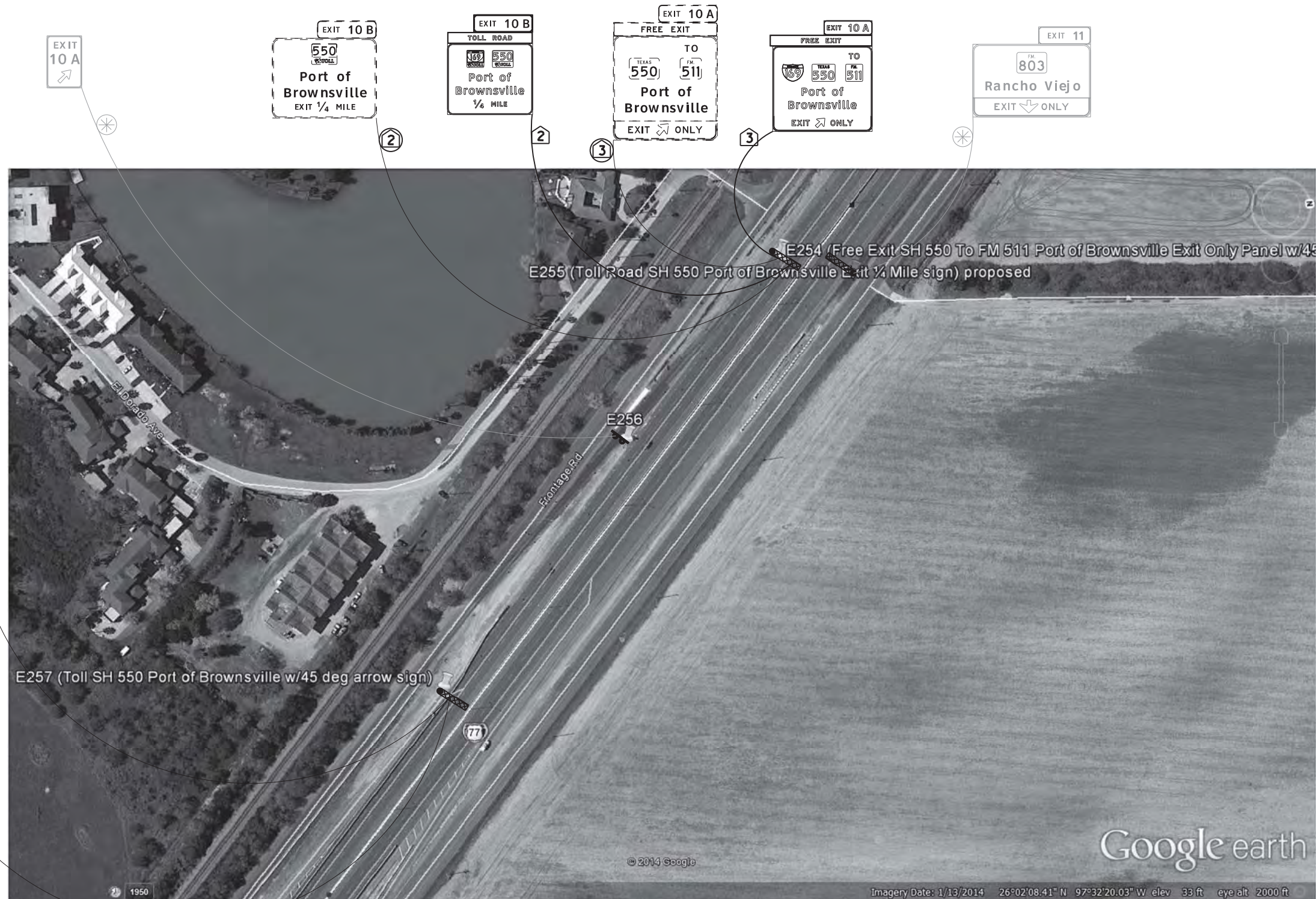


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IH-69E
LARGE SIGN LAYOUTS

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DR: L.S.J	DRAWING: ORIGINAL	DATE: SEP. 2020	FED. PROJ. NO.	STATE: TEXAS	FEDERAL PROJECT NO.	SHEET NO.: 125
DR: L.S.J	STATE DIST. NO.: PHARR	COUNTY: HIDALGO	CONTROL NO.: 6353	SECTION NO.: 00	JOB NO.: 00	HIGHWAY NO.: IH-2







ETC. ETC.

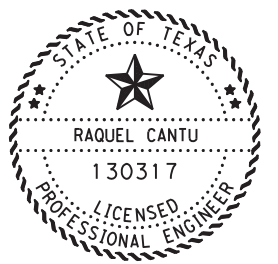


N
SCALE: N. T. S.



LEGEND

-  LARGE SIGN TO BE REMOVED
-  LARGE SIGN TO BE INSTALLED
-  SMALL SIGN TO BE REMOVED
-  SMALL SIGN TO BE INSTALLED
-  SIGN TO REMAIN IN PLACE
-  LARGE SIGN TO BE RELOCATED



Raquel Cantu 11.06.20

TEXAS DEPARTMENT OF TRANSPORTATION

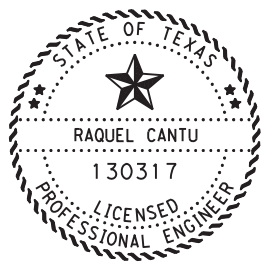
IH-69E

LARGE SIGN LAYOUTS

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Dn: L.S.J	DRAWING	DATE	FILE NO.	STATE	FEDERAL PROJECT NO.	SHEET
Ck: Dn: G.V	ORIGINAL	SEP. 2020		TEXAS		126
Dn: L.S.J			STATE	COUNTY	CONTROL	SECTION
Ck: Dn: G.V			DIST. NO.	HIDALGO,	6353	00 00
			PHARR			

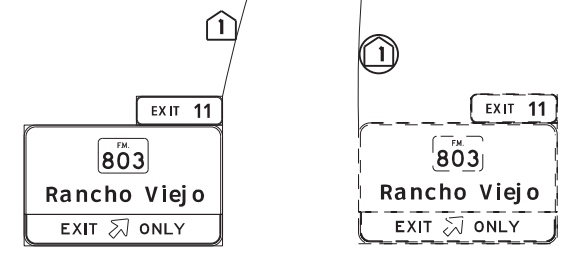
ETC. ETC.



Raquel Cantu 11.06.20

LEGEND

- LARGE SIGN TO BE REMOVED
- LARGE SIGN TO BE INSTALLED
- SMALL SIGN TO BE REMOVED
- SMALL SIGN TO BE INSTALLED
- SIGN TO REMAIN IN PLACE
- LARGE SIGN TO BE RELOCATED

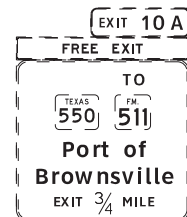
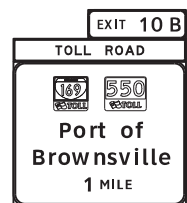
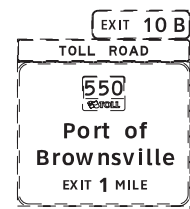


TEXAS DEPARTMENT OF TRANSPORTATION
IH-69E
LARGE SIGN LAYOUTS

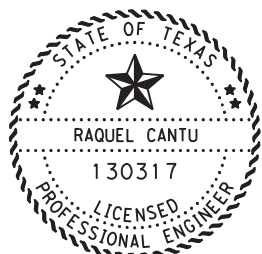
© 2020 SHEET 16 OF 53

DR: L.S.J	DRAWING: ORIGINAL	DATE: SEP. 2020	FED. DIST. NO.: PHARR	STATE: TEXAS	FEDERAL PROJECT NO.: 6353 00 00	SHEET NO.: 127
DR: L.S.J			COUNTY: HIDALGO	CONTROL NO.: 00	SECTION NO.: 00	JOB NO.: IH-2

ETC. ETC.



SCALE: N. T. S.



Raquel Cantu 11.06.20

LEGEND

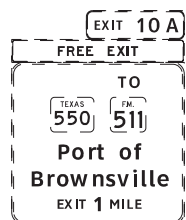
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- LARGE SIGN TO BE INSTALLED
- SMALL SIGN TO BE REMOVED
- SMALL SIGN TO BE INSTALLED
- SIGN TO REMAIN IN PLACE
- LARGE SIGN TO BE RELOCATED

TEXAS DEPARTMENT OF TRANSPORTATION
IH-69E
LARGE SIGN LAYOUTS

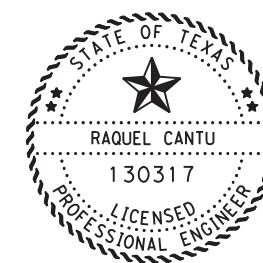
© 2020 SHEET 17 OF 53

DR: L.S.J	DRAWING	DATE	FED. PROJ. NO.	STATE	FEDERAL PROJECT NO.	SHEET NO.
DR: L.S.J	ORIGINAL	SEP. 2020		TEXAS		128
DR: L.S.J			STATE DIST. NO.	COUNTY	CONTROL NO.	SECTION NO.
DR: L.S.J			PHARR	HIDALGO	6273	50 001

ETC. ETC.



N
SCALE: N. T. S.



Raquel Cantu 11.06.20

LEGEND

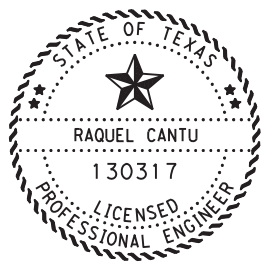
- LARGE SIGN TO BE REMOVED
- LARGE SIGN TO BE INSTALLED
- SMALL SIGN TO BE REMOVED
- SMALL SIGN TO BE INSTALLED
- SIGN TO REMAIN IN PLACE
- LARGE SIGN TO BE RELOCATED

TEXAS DEPARTMENT OF TRANSPORTATION
IH-69E
LARGE SIGN LAYOUTS

© 2020 SHEET 18 OF 53

DR: L.S.J.	DRAWING: ORIGINAL	DATE: SEP. 2020	FED. PROJ. NO.:	STATE: TEXAS	FEDERAL PROJECT NO.:	SHEET NO.:
DR: L.S.J.			STATE DIST. NO.:	COUNTY: PHARR	CONTROL NO.:	SECTION NO.:
DR: G.V.				HIDALGO, 6273	50	001
						129
						1H-2,
						ETC.

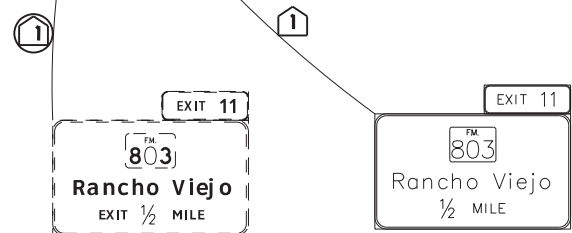
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SCALE: N. T. S.



Raquel Cantu 11.06.20

LEGEND

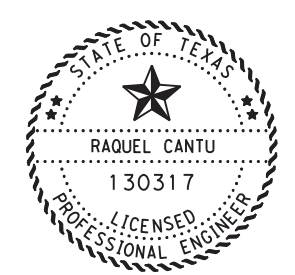
- LARGE SIGN TO BE REMOVED
- LARGE SIGN TO BE INSTALLED
- SMALL SIGN TO BE REMOVED
- SMALL SIGN TO BE INSTALLED
- SIGN TO REMAIN IN PLACE
- LARGE SIGN TO BE RELOCATED



TEXAS DEPARTMENT OF TRANSPORTATION
IH-69E
LARGE SIGN LAYOUTS

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DR: L.S.J	DRAWING	DATE	FED. NO.	STATE	FEDERAL PROJECT NO.	SHEET
CK: DR: GV	ORIGINAL	SEP. 2020		TEXAS		130
DR: L.S.J			STATE	COUNTY	CONTROL	SECTION
CK: DR: GV			DIST. NO.	NO.	NO.	JOB
			PHARR	HIDALGO,	6353	00 00
						11-2,
						ETC.



Raquel Cantu 11.06.20

LEGEND

- LARGE SIGN TO BE REMOVED
- LARGE SIGN TO BE INSTALLED
- SMALL SIGN TO BE REMOVED
- SMALL SIGN TO BE INSTALLED
- SIGN TO REMAIN IN PLACE
- LARGE SIGN TO BE RELOCATED

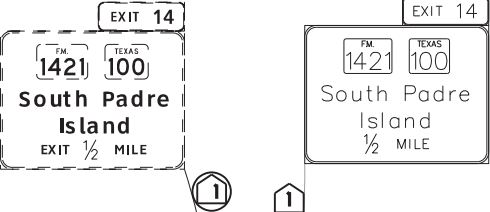


TEXAS DEPARTMENT OF TRANSPORTATION
IH-69E
LARGE SIGN LAYOUTS

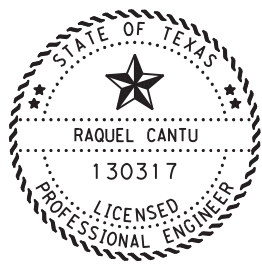
© 2020 SHEET 20 OF 53

DR: L.S.J.	DRAWING	DATE	FED. NO.	STATE	FEDERAL PROJECT NO.	SHEET
CK: DR: G.V.	ORIGINAL	SEP. 2020		TEXAS		131
DR: L.S.J.			STATE DIST. NO.	COUNTY	CONTROL NO.	SECTION NO.
CK: DR: G.V.			PHARR	HIDALGO	6353	00 00

ETC. HIGHWAY NO. IH-2, ETC.



— N —
SCALE: N. T. S.



Raquel Cantu 11.06.20

LEGEND

- LARGE SIGN TO BE REMOVED
- LARGE SIGN TO BE INSTALLED
- SMALL SIGN TO BE REMOVED
- SMALL SIGN TO BE INSTALLED
- SIGN TO REMAIN IN PLACE
- LARGE SIGN TO BE RELOCATED

TEXAS DEPARTMENT OF TRANSPORTATION

IH-69E

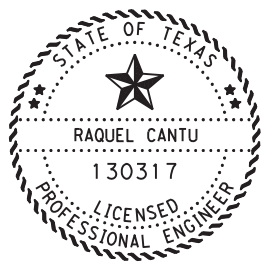
LARGE SIGN LAYOUTS

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DRW	L.S.J	DRAWING	DATE	FED. PROJ. NO.	STATE	FEDERAL PROJECT NO.	SHEET
CK DR	GV	ORIGINAL	SEP. 2020		TEXAS		132
DR	L.S.J			STATE DIST. NO.	COUNTY	CONTROL NO.	SECTION NO.
CK DR	GV			PHARR	HIDALGO	6353	00 00

JOB NO. 0001 HIGHWAY NO. IH-2, ETC.

N
SCALE: N. T. S.



Raquel Cantu 11.06.20

LEGEND

- LARGE SIGN TO BE REMOVED
- LARGE SIGN TO BE INSTALLED
- SMALL SIGN TO BE REMOVED
- SMALL SIGN TO BE INSTALLED
- SIGN TO REMAIN IN PLACE
- LARGE SIGN TO BE RELOCATED

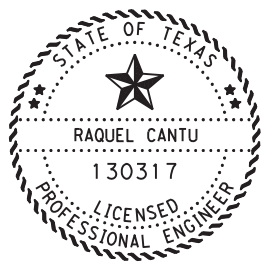


TEXAS DEPARTMENT OF TRANSPORTATION
IH-69E
LARGE SIGN LAYOUTS

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DR: L.S.J	DRAWING	DATE	FED. NO. DIV. NO.	STATE	FEDERAL PROJECT NO.	SHEET
CK: DR: GV	ORIGINAL	SEP. 2020		TEXAS		133
DR: L.S.J			STATE DIST. NO.	COUNTY	CONTROL NO. SECTION NO. JOB NO.	ROUTE NO.
CK: DR: GV			PHARR	HIDALGO	6353 00 00	IH-2

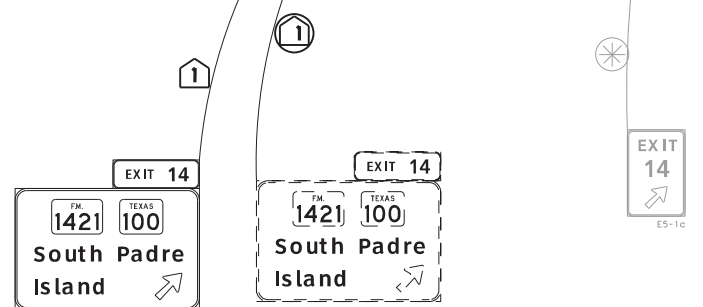
ETC. ETC.



Raquel Cantu 11.06.20

LEGEND

- LARGE SIGN TO BE REMOVED
- LARGE SIGN TO BE INSTALLED
- SMALL SIGN TO BE REMOVED
- SMALL SIGN TO BE INSTALLED
- SIGN TO REMAIN IN PLACE
- LARGE SIGN TO BE RELOCATED

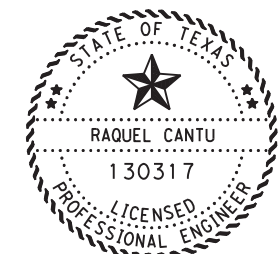
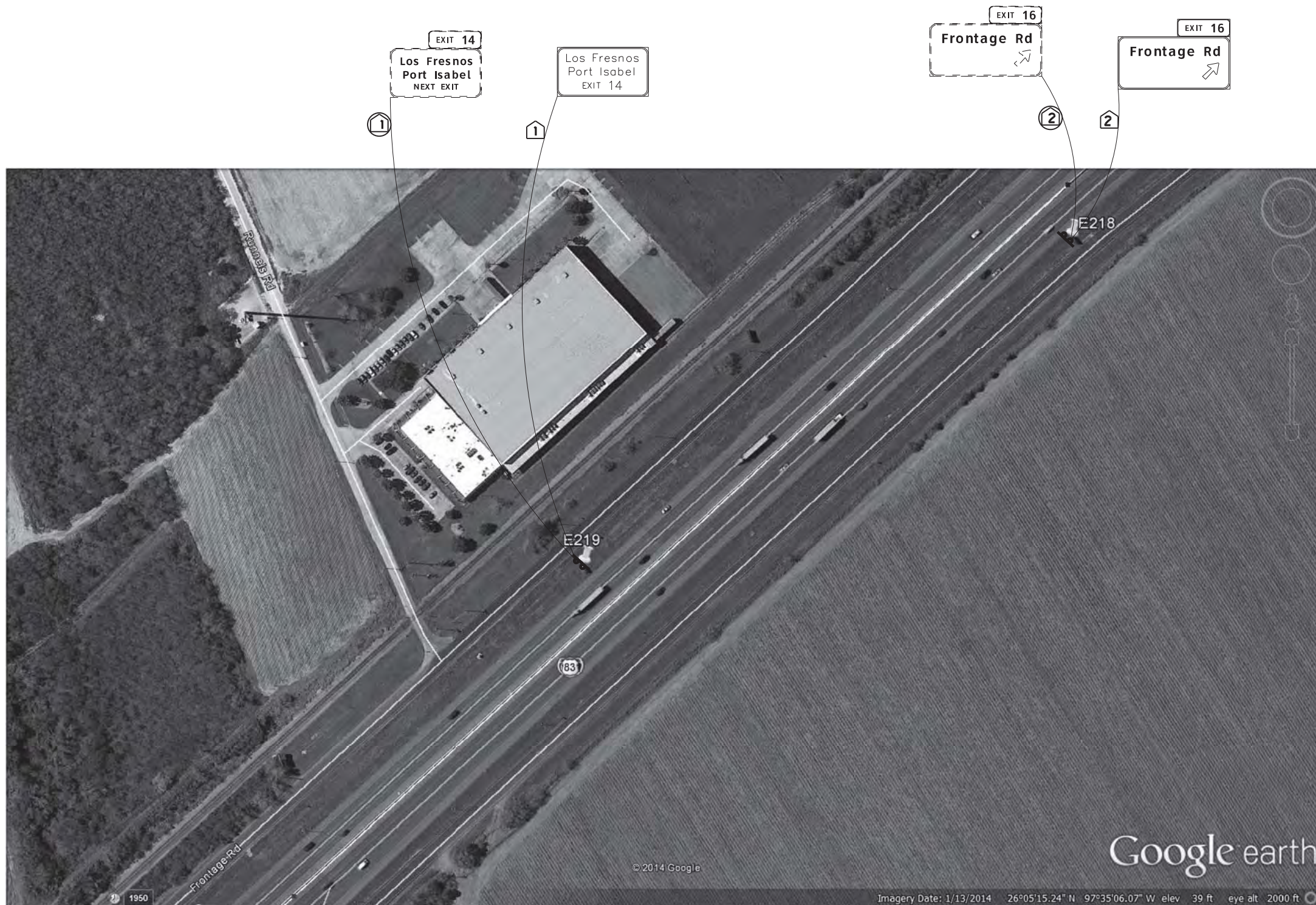


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IH-69E
LARGE SIGN LAYOUTS

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DR: L.S.J	DRAWING	DATE	TITLE NO.	STATE	FEDERAL PROJECT NO.	SHEET
CK: DV: G.V	ORIGINAL	SEP. 2020		TEXAS		134
DR: L.S.J			STATE DIST. NO.	COUNTY	CONTROL NO.	SECTION NO.
CK: DV: G.V			PHARR	HIDALGO	6353	00 00

ETC. IH-2. ETC.



Raquel Cantu 11.06.20

LEGEND

-  LARGE SIGN TO BE REMOVED
-  LARGE SIGN TO BE INSTALLED
-  SMALL SIGN TO BE REMOVED
-  SMALL SIGN TO BE INSTALLED
-  SIGN TO REMAIN IN PLACE
-  LARGE SIGN TO BE RELOCATED

TEXAS DEPARTMENT OF TRANSPORTATION

IH-69E

LARGE SIGN LAYOUTS

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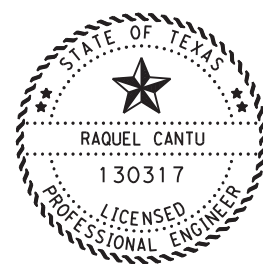
DRW	L.S.J	DRAWING	DATE	FED. NO.	STATE	FEDERAL PROJECT NO.	SHEET
DRW	GV	ORIGINAL	SEP. 2020		TEXAS		135
DRW	L.S.J			STATE	COUNTY	CONTROL	SECTION
DRW	GV			PHARR	HIDALGO,	6353	00 00
							JOB
							NO.
							HIGHWAY
							NO.
							IH-2,
							ETC.

Brownsville
CITY LIMIT

EXIT 17
BUSINESS
San Benito
EXIT ONLY

EXIT 17
BUSINESS
San Benito
EXIT ONLY

N
SCALE: N. T. S.



Raquel Cantu 11.06.20

LEGEND

- LARGE SIGN TO BE REMOVED
- LARGE SIGN TO BE INSTALLED
- SMALL SIGN TO BE REMOVED
- SMALL SIGN TO BE INSTALLED
- SIGN TO REMAIN IN PLACE
- LARGE SIGN TO BE RELOCATED

San Benito
Business District
NEXT 6 EXITS

EXIT 17
BUSINESS
San Benito
EXIT 1/4 MILE

EXIT 17
BUSINESS
San Benito
EXIT 1/4 MILE

TEXAS DEPARTMENT OF TRANSPORTATION

IH-69E

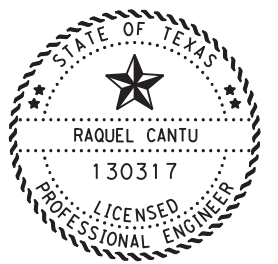
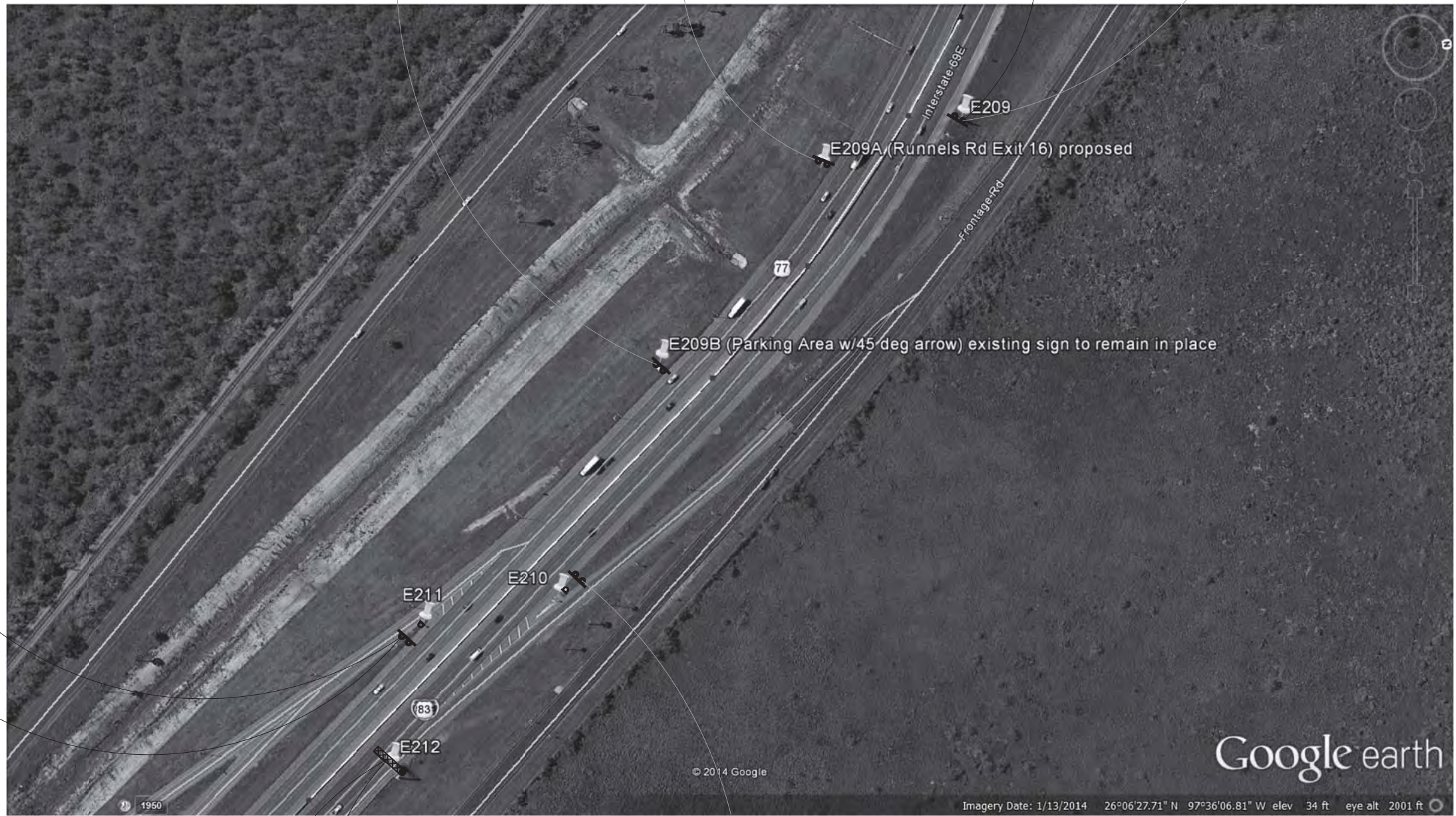
LARGE SIGN LAYOUTS

© 2020 SHEET 25 OF 53

DR: L.S.J.	DRAWING	DATE	FED. PROJ. NO.	STATE	FEDERAL PROJECT NO.	SHEET
CK: DR: G.V.	ORIGINAL	SEP. 2020		TEXAS		136
DR: L.S.J.			STATE DIST. NO.	COUNTY	CONTROL NO.	SECTION NO.
CK: DR: G.V.			PHARR	HIDALGO	6353	00 00

ETC. IH-2. ETC.

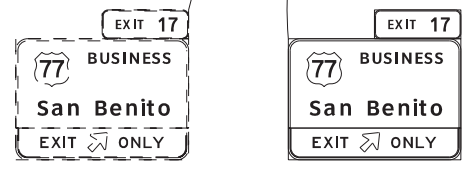
SCALE: N. T. S.



Raquel Cantu 11.06.20

LEGEND

- LARGE SIGN TO BE REMOVED
- LARGE SIGN TO BE INSTALLED
- SMALL SIGN TO BE REMOVED
- SMALL SIGN TO BE INSTALLED
- SIGN TO REMAIN IN PLACE
- LARGE SIGN TO BE RELOCATED



TEXAS DEPARTMENT OF TRANSPORTATION
IH-69E
LARGE SIGN LAYOUTS

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DR: L.S.J.	DRAWING	DATE	FED. NO.	STATE	FEDERAL PROJECT NO.	SHEET
DR: L.S.J.	ORIGINAL	SEP. 2020		TEXAS		137
DR: L.S.J.			STATE DIST. NO.	COUNTY	CONTROL NO.	SECTION NO.
DR: L.S.J.			PHARR	HIDALGO	6353	00 00
DR: L.S.J.						
DR: L.S.J.						

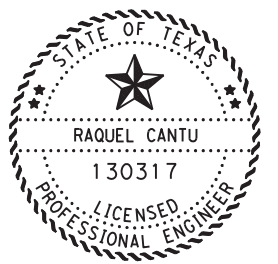
ETC. ETC.

N
SCALE: N. T. S.



LEGEND

- LARGE SIGN TO BE REMOVED
- LARGE SIGN TO BE INSTALLED
- SMALL SIGN TO BE REMOVED
- SMALL SIGN TO BE INSTALLED
- SIGN TO REMAIN IN PLACE
- LARGE SIGN TO BE RELOCATED



Raquel Cantu 11.06.20

TEXAS DEPARTMENT OF TRANSPORTATION
IH-69E
LARGE SIGN LAYOUTS

© 2020		SHEET 27 OF 53					
DR: L.S.J	DRAWING	DATE	FED. PROJ. NO.	STATE	FEDERAL PROJECT NO.		SHEET
CK: DR: GV	ORIGINAL	SEP. 2020		TEXAS			138
DR: L.S.J			STATE DIST. NO.	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.
CK: DR: GV			PHARR	HIDALGO	6353	00	00
							IGHWAY NO.
							IH-2
							ETC.

EXIT 19 B
 TEXAS 345 FM 2520
 Sam Houston Blvd
 McCulloch St
 EXIT ONLY

EXIT 19 B
 TEXAS 345 FM 2520
 Sam Houston Blvd
 McCulloch St
 EXIT ONLY

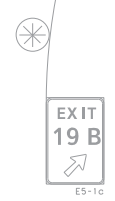
N
 SCALE: N. T. S.



Raquel Cantu 11.06.20

LEGEND

-  LARGE SIGN TO BE REMOVED
-  LARGE SIGN TO BE INSTALLED
-  SMALL SIGN TO BE REMOVED
-  SMALL SIGN TO BE INSTALLED
-  SIGN TO REMAIN IN PLACE
-  LARGE SIGN TO BE RELOCATED

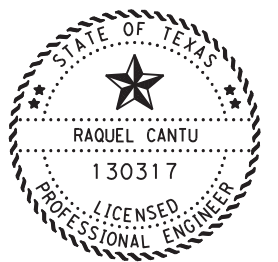


TEXAS DEPARTMENT OF TRANSPORTATION
IH-69E
LARGE SIGN LAYOUTS

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DR: L.S.J	DRAWING: ORIGINAL	DATE: SEP. 2020	FED. PROJ. NO.:	STATE: TEXAS	FEDERAL PROJECT NO.:	SHEET NO.:
CK: DR: G.V						139
DR: L.S.J			STATE DIST. NO.:	COUNTY:	CONTROL NO.:	SECTION NO.:
CK: DR: G.V			PHARR	HIDALGO	6353	00 00
						JOB NO.:
						11-2
						ETC.

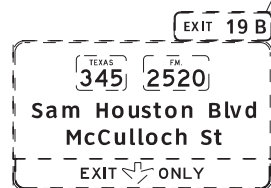
N
SCALE: N. T. S.



Raquel Cantu 11.06.20

LEGEND

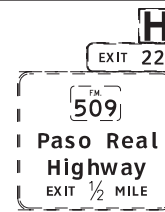
- LARGE SIGN TO BE REMOVED
- LARGE SIGN TO BE INSTALLED
- SMALL SIGN TO BE REMOVED
- SMALL SIGN TO BE INSTALLED
- SIGN TO REMAIN IN PLACE
- LARGE SIGN TO BE RELOCATED



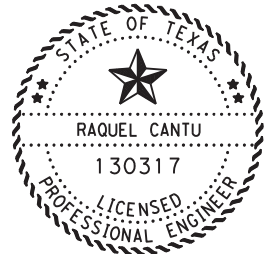
TEXAS DEPARTMENT OF TRANSPORTATION
IH-69E
LARGE SIGN LAYOUTS

© 2020 SHEET 29 OF 53

DR: L.S.J.	DRAWING: ORIGINAL	DATE: SEP. 2020	FED. DIST. NO.: PHARR	STATE: TEXAS	FEDERAL PROJECT NO.: 6273 50 001	SHEET NO.: 140
CK: DR: G.V.			STATE DIST. NO.: PHARR	COUNTY: HIDALGO	CONTROL NO.: 6273	SECTION NO.: 50
DR: L.S.J.					JOB NO.: 001	HIGHWAY NO.: IH-2
CK: DR: G.V.					ETC.	ETC.



N
SCALE: N. T. S.



Raquel Cantu 11.06.20

LEGEND

- LARGE SIGN TO BE REMOVED
- LARGE SIGN TO BE INSTALLED
- SMALL SIGN TO BE REMOVED
- SMALL SIGN TO BE INSTALLED
- SIGN TO REMAIN IN PLACE
- LARGE SIGN TO BE RELOCATED



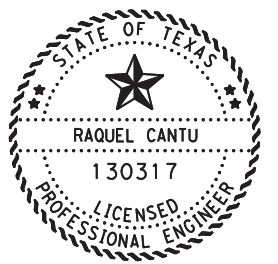
TEXAS DEPARTMENT OF TRANSPORTATION
IH-69E
LARGE SIGN LAYOUTS

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DR: L.S.J	DRAWING: ORIGINAL	DATE: SEP. 2020	FED. NO.:	STATE: TEXAS	FEDERAL PROJECT NO.:	SHEET: 141
DR: L.S.J	STATE DIST. NO.:	COUNTY: PHARR	CONTROL NO.:	SECTION NO.:	JOB NO.:	ROUTE NO.:
DR: G.V			6353	00	00	IH-2

ETC. ETC.

N
SCALE: N. T. S.



Raquel Cantu 11.06.20

LEGEND

-  LARGE SIGN TO BE REMOVED
-  LARGE SIGN TO BE INSTALLED
-  SMALL SIGN TO BE REMOVED
-  SMALL SIGN TO BE INSTALLED
-  SIGN TO REMAIN IN PLACE
-  LARGE SIGN TO BE RELOCATED

TEXAS DEPARTMENT OF TRANSPORTATION

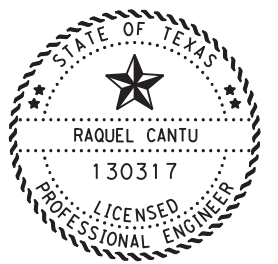
IH-69E

LARGE SIGN LAYOUTS

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Dn: L.S.J	DRAWING	DATE	FED. NO.	STATE	FEDERAL PROJECT NO.	SHEET
Ck Dn: GV	ORIGINAL	SEP. 2020		TEXAS		142
Dn: L.S.J			STATE	COUNTY	CONTROL NO.	SECTION NO.
Ck Dn: GV			PHARR	HIDALGO	6273	50 001
						JOB NO.
						1H-2
						ETC.

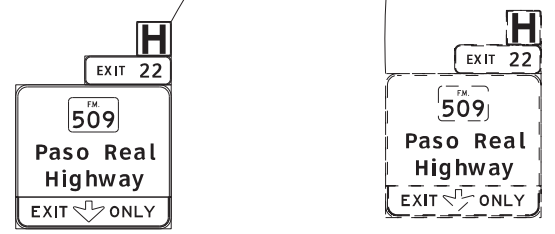
N
SCALE: N. T. S.



Raquel Cantu 11.06.20

LEGEND

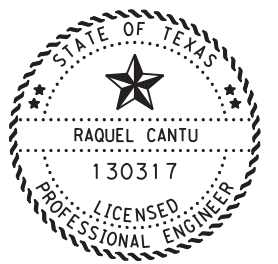
- LARGE SIGN TO BE REMOVED
- LARGE SIGN TO BE INSTALLED
- SMALL SIGN TO BE REMOVED
- SMALL SIGN TO BE INSTALLED
- SIGN TO REMAIN IN PLACE
- LARGE SIGN TO BE RELOCATED



TEXAS DEPARTMENT OF TRANSPORTATION
IH-69E
LARGE SIGN LAYOUTS

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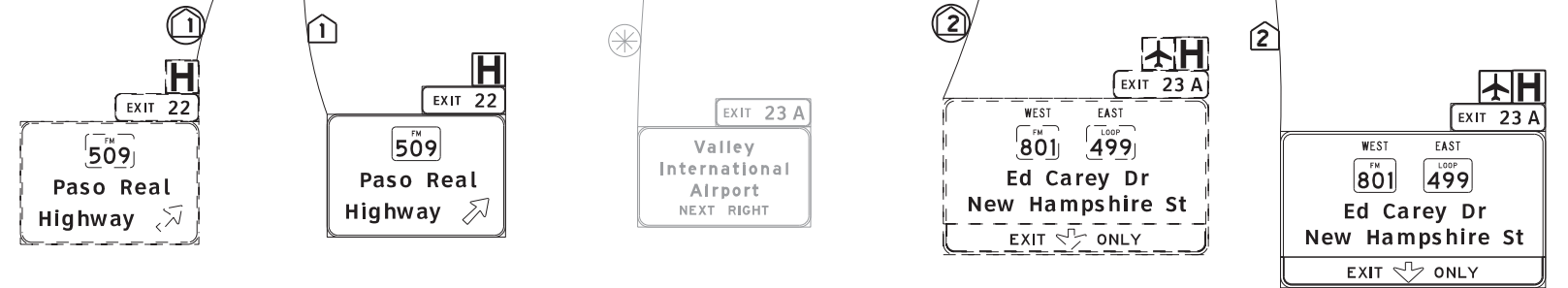
DR: L.S.J.	DRAWING: ORIGINAL	DATE: SEP. 2020	FED. DIST. NO.: PHARR	STATE: TEXAS	FEDERAL PROJECT NO.: 6353 00 00	SHEET NO.: 143
CK: DR: G.V.			STATE DIST. NO.: PHARR	COUNTY: HIDALGO	CONTROL NO.: 00	SECTION NO.: 00
DR: L.S.J.						JOB NO.: IH-2
CK: DR: G.V.						HIGHWAY NO.: ETC.



Raquel Cantu 11.06.20

LEGEND

- LARGE SIGN TO BE REMOVED
- LARGE SIGN TO BE INSTALLED
- SMALL SIGN TO BE REMOVED
- SMALL SIGN TO BE INSTALLED
- SIGN TO REMAIN IN PLACE
- LARGE SIGN TO BE RELOCATED



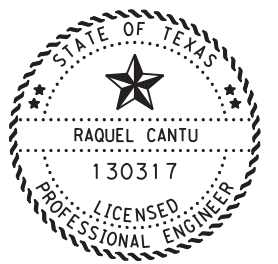
TEXAS DEPARTMENT OF TRANSPORTATION
IH-69E
LARGE SIGN LAYOUTS

© 2014 SHEET 33 OF 53

DR: L.S.J	DRAWING: ORIGINAL	DATE: SEP. 2020	FED. PROJ. NO.:	STATE: TEXAS	FEDERAL PROJECT NO.:	SHEET NO.:
DR: L.S.J	STATE DIST. NO.:	COUNTY:	CONTROL NO.:	SECTION NO.:	JOB NO.:	ROUTE NO.:
DR: G.V.	PHARR	HIDALGO	6353	00	00	IH-2

ETC. ETC.

N
SCALE: N. T. S.



Raquel Cantu 11.06.20

LEGEND

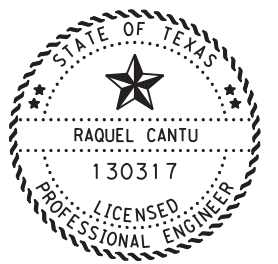
- LARGE SIGN TO BE REMOVED
- LARGE SIGN TO BE INSTALLED
- SMALL SIGN TO BE REMOVED
- SMALL SIGN TO BE INSTALLED
- SIGN TO REMAIN IN PLACE
- LARGE SIGN TO BE RELOCATED



TEXAS DEPARTMENT OF TRANSPORTATION
IH-69E
LARGE SIGN LAYOUTS

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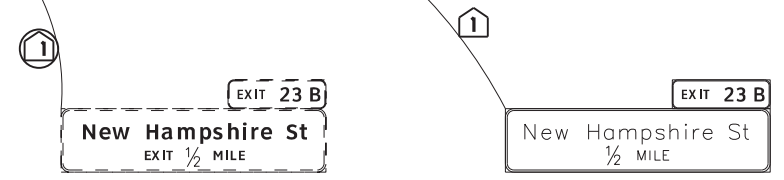
DR: L.S.J	DRAWING	DATE	TITLE NO.	STATE	FEDERAL PROJECT NO.	SHEET
CK: DR: G.V	ORIGINAL	SEP. 2020		TEXAS		145
DR: L.S.J			STATE DIST. NO.	COUNTY	CONTROL NO.	SECTION NO.
CK: DR: G.V			PHARR	HIDALGO	6273	50 001
						HIGHWAY NO.
						IH-2
						ETC.



Raquel Cantu 11.06.20

LEGEND

- LARGE SIGN TO BE REMOVED
- LARGE SIGN TO BE INSTALLED
- SMALL SIGN TO BE REMOVED
- SMALL SIGN TO BE INSTALLED
- SIGN TO REMAIN IN PLACE
- LARGE SIGN TO BE RELOCATED



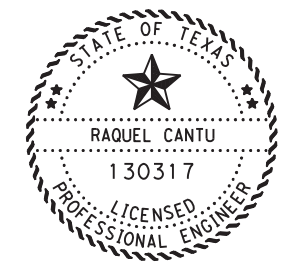
TEXAS DEPARTMENT OF TRANSPORTATION
IH-69E
LARGE SIGN LAYOUTS

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DR: L.S.J	DRAWING	DATE	TITLE NO.	STATE	FEDERAL PROJECT NO.	SHEET
CK: DV: G.V	ORIGINAL	SEP. 2020		TEXAS		146
DR: L.S.J			STATE DIST. NO.	COUNTY	CONTROL NO.	SECTION NO.
CK: DV: G.V			PHARR	HIDALGO	6353	00 00
						JOB NO.
						1H-2
						ETC.



N
SCALE: N. T. S.



Raquel Cantu 11.06.20

LEGEND

- LARGE SIGN TO BE REMOVED
- LARGE SIGN TO BE INSTALLED
- SMALL SIGN TO BE REMOVED
- SMALL SIGN TO BE INSTALLED
- SIGN TO REMAIN IN PLACE
- LARGE SIGN TO BE RELOCATED

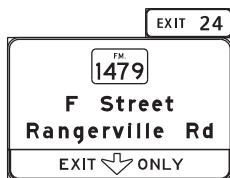
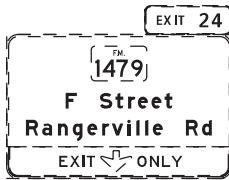
EXIT 26 A
Lincoln Ave
EXIT 1/4 MILE

TEXAS DEPARTMENT OF TRANSPORTATION
IH-69E
LARGE SIGN LAYOUTS

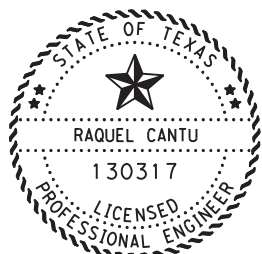
© 2020 SHEET 36 OF 53

DR: L.S.J	DRAWING: ORIGINAL	DATE: SEP. 2020	FED. DIST. NO.: PHARR	STATE: TEXAS	FEDERAL PROJECT NO.: 6353 00 00	SHEET NO.: 147
CK: DR: G.V						
DR: L.S.J			COUNTY: HIDALGO	CONTROL NO.: 6353	SECTION NO.: 00	JOB NO.: 00
CK: DR: G.V						

ETC. ETC.



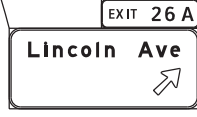
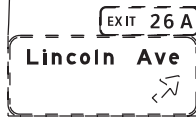
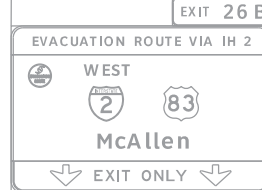
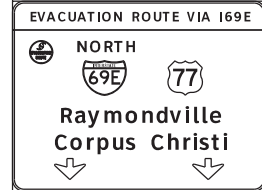
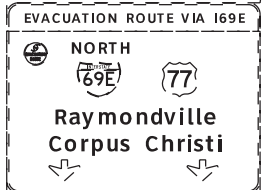
SCALE: N. T. S.



Raquel Cantu 11.06.20

LEGEND

- LARGE SIGN TO BE REMOVED
- LARGE SIGN TO BE INSTALLED
- SMALL SIGN TO BE REMOVED
- SMALL SIGN TO BE INSTALLED
- SIGN TO REMAIN IN PLACE
- LARGE SIGN TO BE RELOCATED



TEXAS DEPARTMENT OF TRANSPORTATION
IH-69E
LARGE SIGN LAYOUTS

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DR: L.S.J.	DRAWING: ORIGINAL	DATE: SEP. 2020	FED. DIST. NO.: PHARR	STATE: TEXAS	FEDERAL PROJECT NO.: 6353 00 00	SHEET NO.: 148
CK: DR: L.S.J.	GV		COUNTY: HIDALGO	CONTROL NO.: 00	SECTION NO.: 00	JOB NO.: IH-2

ETC. ETC.



EXIT 24
 PR. 1479
F Street
Rangerville Rd
 EXIT 1/2 MILE

EXIT 26 B
 ES-1C

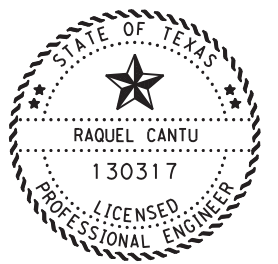
EXIT 26 C
Baseball Stadium
 NEXT EXIT

EXIT 26 C
 ES-1C

EXIT 26 C
Downtown
 BUSINESS
Tyler Ave
Fairpark Blvd

Texas Travel Information Center
 NEXT RIGHT

Texas Travel Information Center
 EXIT 26 C



Raquel Cantu 11.06.20

LEGEND

- LARGE SIGN TO BE REMOVED
- LARGE SIGN TO BE INSTALLED
- SMALL SIGN TO BE REMOVED
- SMALL SIGN TO BE INSTALLED
- SIGN TO REMAIN IN PLACE
- LARGE SIGN TO BE RELOCATED

Downtown
 BUSINESS
Tyler Ave
Fairpark Blvd
 NEXT RIGHT

Downtown
 BUSINESS
Tyler Ave
Fairpark Blvd
 EXIT 26 C

EXIT 26 B
 EVACUATION ROUTE VIA IH 2
 WEST
 2 83
McAllen
 EXIT ONLY

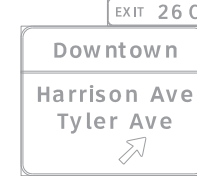
EVACUATION ROUTE VIA I69E
 NORTH
 69E 77
Raymondville
Corpus Christi

EVACUATION ROUTE VIA I69E
 NORTH
 69E 77
Raymondville
Corpus Christi

TEXAS DEPARTMENT OF TRANSPORTATION
IH-69E
LARGE SIGN LAYOUTS

© 2020 SHEET 38 OF 53

DR: L.S.J.	DRAWING: ORIGINAL	DATE: SEP. 2020	FED. PROJ. NO.:	STATE: TEXAS	SHEET NO.:
DR: L.S.J.	CONTROL NO.:	SECTION NO.:	JOB NO.:	HIGHWAY NO.:	ETC.
DR: G.V.	PHARR	HIDALGO	6353 00 00	IH-2	ETC.

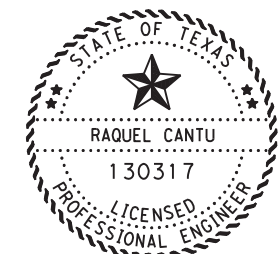


— N —
SCALE: N. T. S.



LEGEND

-  LARGE SIGN TO BE REMOVED
-  LARGE SIGN TO BE INSTALLED
-  SMALL SIGN TO BE REMOVED
-  SMALL SIGN TO BE INSTALLED
-  SIGN TO REMAIN IN PLACE
-  LARGE SIGN TO BE RELOCATED



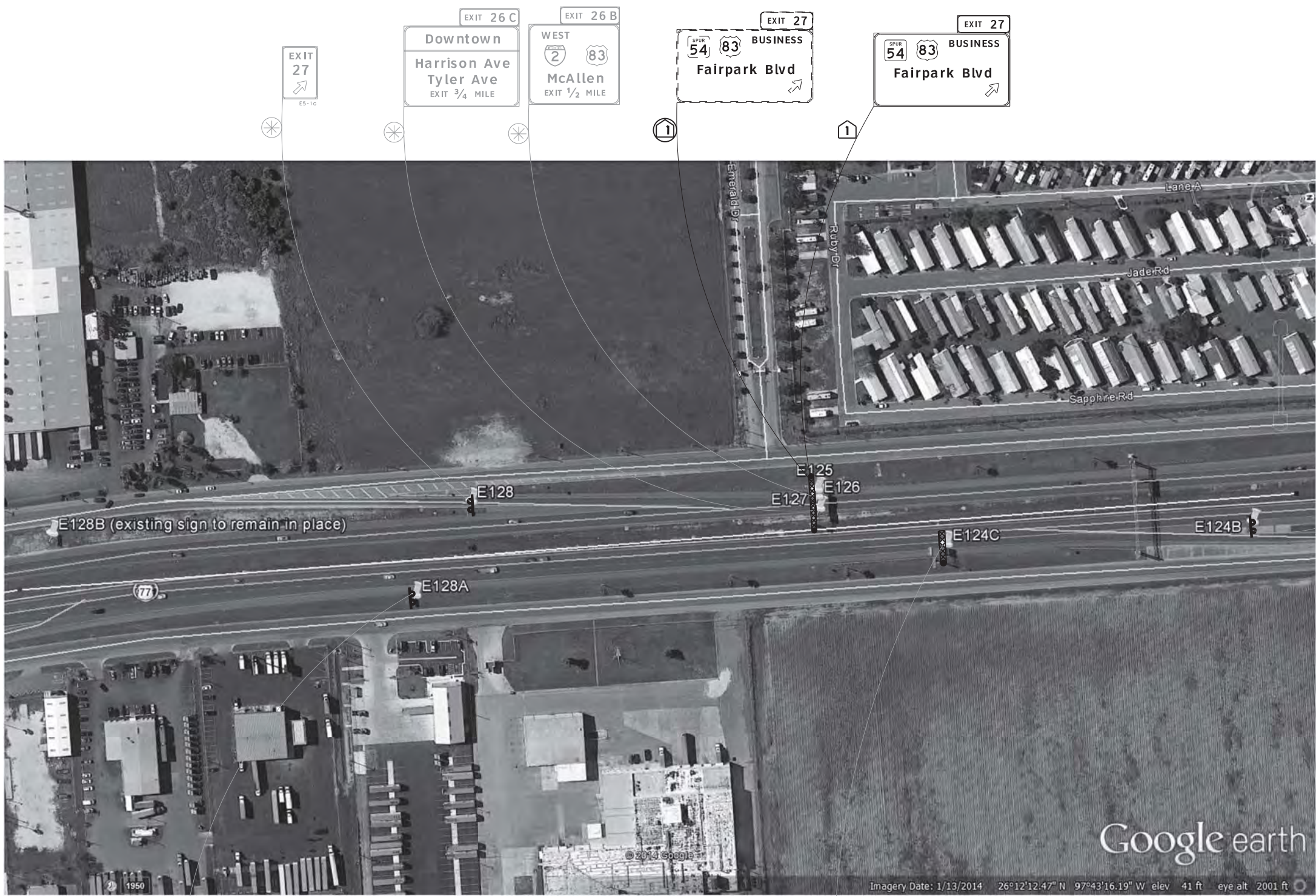
Raquel Cantu 11.06.20

TEXAS DEPARTMENT OF TRANSPORTATION
IH-69E
LARGE SIGN LAYOUTS

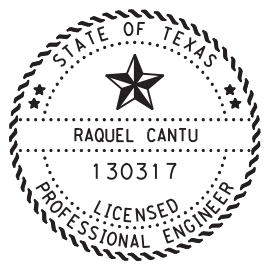
© 2020 SHEET 39 OF 53

DR: L.S.J.	DRAWING	DATE	FED. PROJ. NO.	STATE	FEDERAL PROJECT NO.	SHEET
CK: DR: G.V.	ORIGINAL	SEP. 2020		TEXAS		150
DR: L.S.J.			STATE DIST. NO.	COUNTY	CONTROL NO.	SECTION NO.
CK: DR: G.V.			PHARR	HIDALGO	6353	00 00

ETC. IH-2, ETC.



EXIT 28
ES-1c



Raquel Cantu 11.06.20

LEGEND

- LARGE SIGN TO BE REMOVED
- LARGE SIGN TO BE INSTALLED
- SMALL SIGN TO BE REMOVED
- SMALL SIGN TO BE INSTALLED
- SIGN TO REMAIN IN PLACE
- LARGE SIGN TO BE RELOCATED

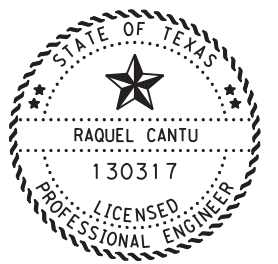
EXIT 28
Palm Valley
NEXT EXIT

EXIT 28
2994
Wilson Rd
EXIT ONLY

TEXAS DEPARTMENT OF TRANSPORTATION
IH-69E
LARGE SIGN LAYOUTS

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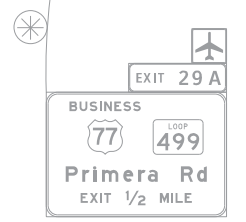
DR: L.S.J.	DRAWING: ORIGINAL	DATE: SEP. 2020	FED. PROJ. NO.:	STATE: TEXAS	FEDERAL PROJECT NO.:	SHEET NO.:
DR: L.S.J.	CONTROL NO.:	SECTION NO.:	COUNTY: PHARR	HIDALGO	6353 00 00	151
DR: GV	JOB NO.:	HIGHWAY NO.:	IH-2, ETC.			



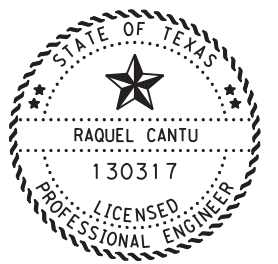
Raquel Cantu 11.06.20

LEGEND

- LARGE SIGN TO BE REMOVED
- LARGE SIGN TO BE INSTALLED
- SMALL SIGN TO BE REMOVED
- SMALL SIGN TO BE INSTALLED
- SIGN TO REMAIN IN PLACE
- LARGE SIGN TO BE RELOCATED



		TEXAS DEPARTMENT OF TRANSPORTATION				IH-69E		LARGE SIGN LAYOUTS	
		© 2020		SHEET 41 OF 53					
DR: L.S.J	DRAWING	DATE	FED. PROJ. NO.	STATE	FEDERAL PROJECT NO.		SHEET NO.		
CK: DR: G.V	ORIGINAL	SEP. 2020		TEXAS			152		
DR: L.S.J			STATE DIST. NO.	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	ROUTE NO.	
CK: DR: G.V			PHARR	HIDALGO	6353	00	00	IH-2	
				ETC.		ETC.			



Raquel Cantu 11.06.20

LEGEND

- LARGE SIGN TO BE REMOVED
- LARGE SIGN TO BE INSTALLED
- SMALL SIGN TO BE REMOVED
- SMALL SIGN TO BE INSTALLED
- SIGN TO REMAIN IN PLACE
- LARGE SIGN TO BE RELOCATED

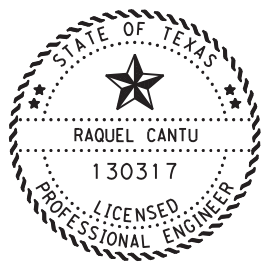
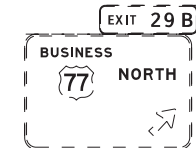


TEXAS DEPARTMENT OF TRANSPORTATION
IH-69E
LARGE SIGN LAYOUTS

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DR: L.S.J	DRAWING	DATE	FED. PROJ. NO.	STATE	FEDERAL PROJECT NO.	SHEET
CK: DR: G.V	ORIGINAL	SEP. 2020		TEXAS		153
DR: L.S.J			STATE DIST. NO.	COUNTY	CONTROL NO.	SECTION NO.
CK: DR: G.V			PHARR	HIDALGO	6353	00 00

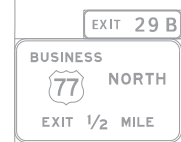
JOB NO. IH-2, ETC. HIGHWAY NO. ETC.



Raquel Cantu 11.06.20

LEGEND

- LARGE SIGN TO BE REMOVED
- LARGE SIGN TO BE INSTALLED
- SMALL SIGN TO BE REMOVED
- SMALL SIGN TO BE INSTALLED
- SIGN TO REMAIN IN PLACE
- LARGE SIGN TO BE RELOCATED



TEXAS DEPARTMENT OF TRANSPORTATION

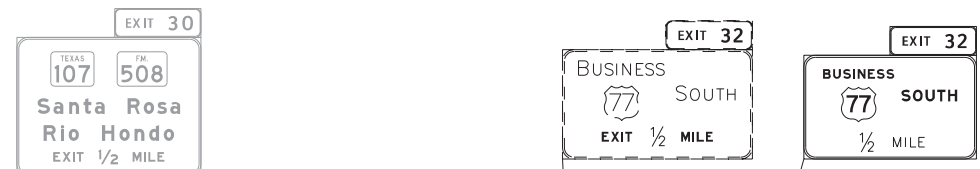
IH-69E

LARGE SIGN LAYOUTS

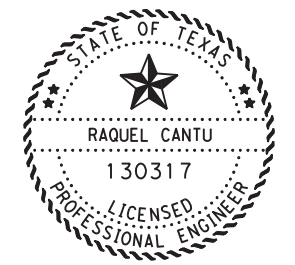
© 2020 SHEET 43 OF 53

DR: L.S.J.	DRAWING: ORIGINAL	DATE: SEP. 2020	FED. PROJ. NO.:	STATE: TEXAS	FEDERAL PROJECT NO.:	SHEET NO.:
CK DR: G.V.						154
DR: L.S.J.			STATE DIST. NO.:	COUNTY:	CONTROL NO.:	SECTION NO.:
CK DR: G.V.			PHARR	HIDALGO	6353	00 00

ETC. HIGHWAY NO. IH-2. ETC.



— N —
SCALE: N. T. S.



Raquel Cantu 11.06.20

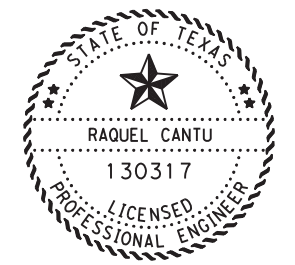
LEGEND

- LARGE SIGN TO BE REMOVED
- LARGE SIGN TO BE INSTALLED
- SMALL SIGN TO BE REMOVED
- SMALL SIGN TO BE INSTALLED
- SIGN TO REMAIN IN PLACE
- LARGE SIGN TO BE RELOCATED

TEXAS DEPARTMENT OF TRANSPORTATION
IH-69E
LARGE SIGN LAYOUTS

© 2020 SHEET 44 OF 53

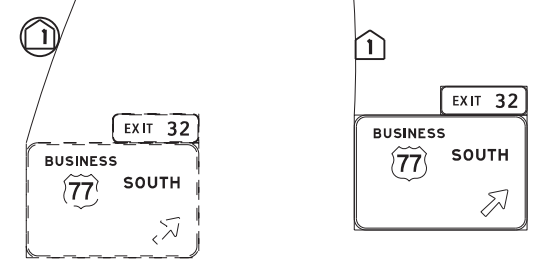
DR: L.S.J.	DRAWING	DATE	FED. DIST. NO.	STATE	FEDERAL PROJECT NO.	SHEET
DR: L.S.J.	ORIGINAL	SEP. 2020		TEXAS		155
DR: L.S.J.			STATE DIST. NO.	COUNTY	CONTROL NO.	SECTION NO.
DR: L.S.J.			PHARR	HIDALGO	6353	00 00
						JOB NO.
						1H-2
						ETC.



Raquel Cantu 11.06.20

LEGEND

- LARGE SIGN TO BE REMOVED
- LARGE SIGN TO BE INSTALLED
- SMALL SIGN TO BE REMOVED
- SMALL SIGN TO BE INSTALLED
- SIGN TO REMAIN IN PLACE
- LARGE SIGN TO BE RELOCATED



TEXAS DEPARTMENT OF TRANSPORTATION

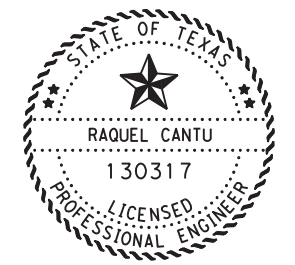
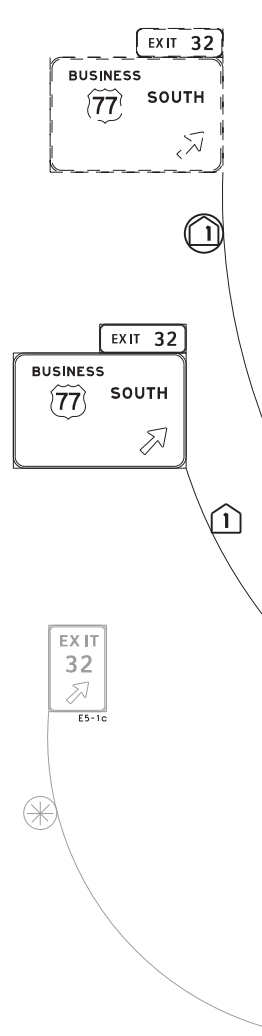
IH-69E

LARGE SIGN LAYOUTS

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DR: L.S.J	DRAWING	DATE	FED. DIST. NO.	STATE	FEDERAL PROJECT NO.	SHEET
DR: G.V	ORIGINAL	SEP. 2020		TEXAS		156
DR: L.S.J			STATE DIST. NO.	COUNTY	CONTROL NO.	SECTION NO.
DR: G.V			PHARR	HIDALGO	6353	00 00

ETC. IH-2, ETC.



Raquel Cantu 11.06.20

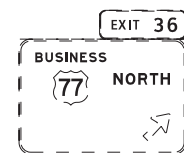
LEGEND

- LARGE SIGN TO BE REMOVED
- LARGE SIGN TO BE INSTALLED
- SMALL SIGN TO BE REMOVED
- SMALL SIGN TO BE INSTALLED
- SIGN TO REMAIN IN PLACE
- LARGE SIGN TO BE RELOCATED

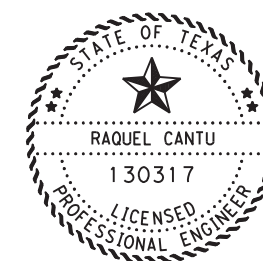
TEXAS DEPARTMENT OF TRANSPORTATION
IH-69E
LARGE SIGN LAYOUTS

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SHEET 46 OF 53

DRW	LSJ	DRAWING	DATE	FED. NO. DIV. NO.	STATE	FEDERAL PROJECT NO.	SHEET NO.
DRW	LSJ	ORIGINAL	SEP. 2020		TEXAS		157
DRW	LSJ			STATE DIST. NO.	COUNTY	CONTROL NO. SECTION NO.	JOB NO. HIGHWAY NO.
DRW	LSJ			PHARR	HIDALGO	6353 00 00	IH-2
ETC.							ETC.



N
SCALE: N. T. S.



Raquel Cantu 11.06.20

LEGEND

- LARGE SIGN TO BE REMOVED
- LARGE SIGN TO BE INSTALLED
- SMALL SIGN TO BE REMOVED
- SMALL SIGN TO BE INSTALLED
- SIGN TO REMAIN IN PLACE
- LARGE SIGN TO BE RELOCATED

TEXAS DEPARTMENT OF TRANSPORTATION
IH-69E
LARGE SIGN LAYOUTS

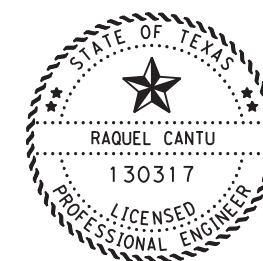
© 2020 SHEET 48 OF 53

DR: L.S.J	DRAWING	DATE	FED. NO. DIV. NO.	STATE	FEDERAL PROJECT NO.	SHEET
CK DR: GV	ORIGINAL	SEP. 2020		TEXAS		159
DR: L.S.J			STATE DIST. NO.	COUNTY	CONTROL NO. SECTION NO.	JOB NO. HIGHWAY NO.
CK DR: GV			PHARR	HIDALGO	6353 00 00	IH-2

ETC. ETC.



SCALE: N. T. S.



Raquel Cantu 11.06.20

LEGEND

- LARGE SIGN TO BE REMOVED
- LARGE SIGN TO BE INSTALLED
- SMALL SIGN TO BE REMOVED
- SMALL SIGN TO BE INSTALLED
- SIGN TO REMAIN IN PLACE
- LARGE SIGN TO BE RELOCATED



TEXAS DEPARTMENT OF TRANSPORTATION

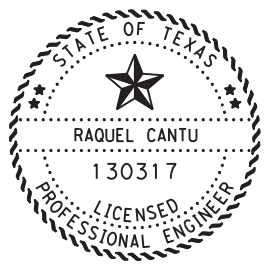
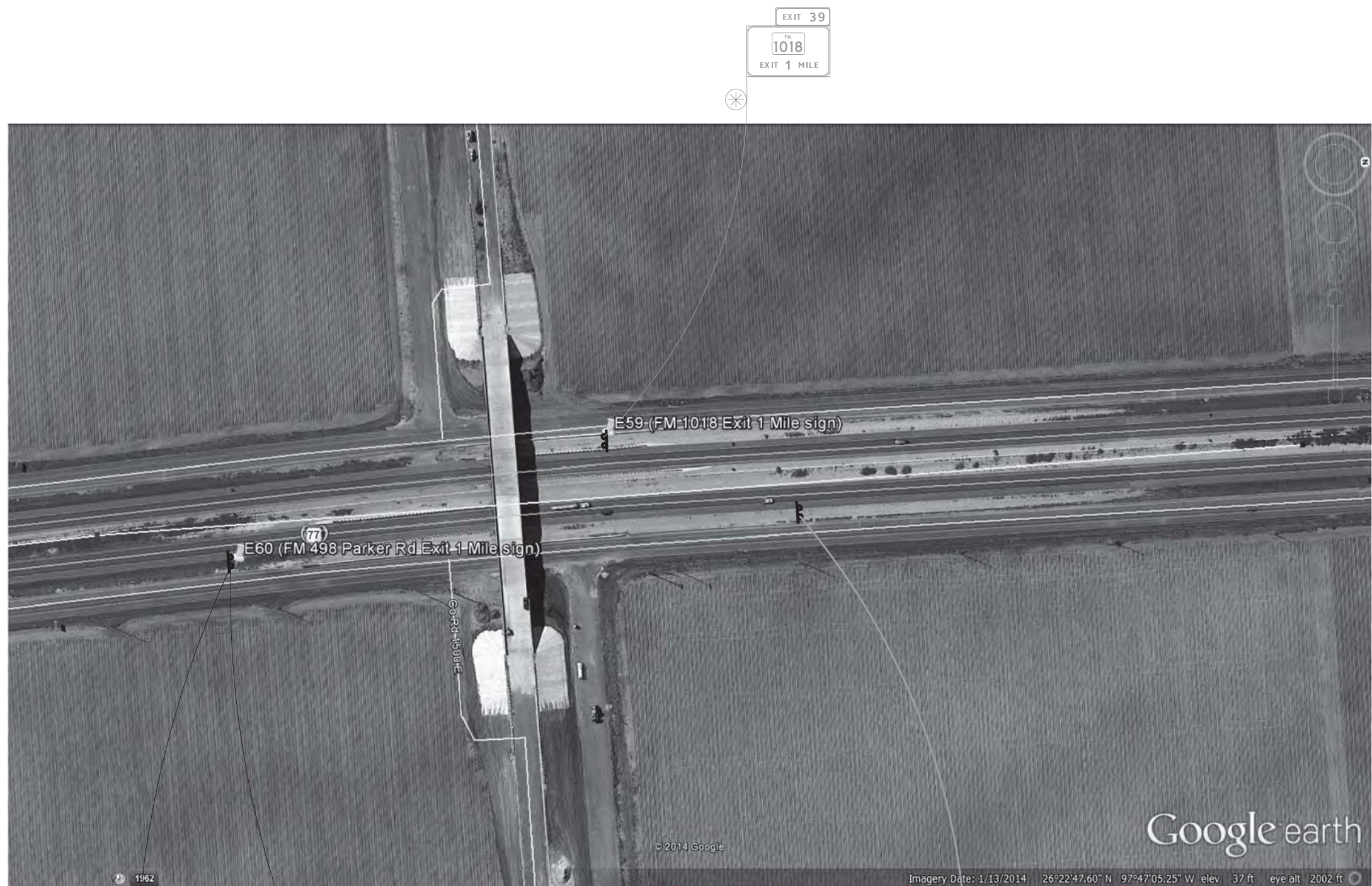
IH-69E

LARGE SIGN LAYOUTS

© 2020 SHEET 49 OF 53

DATE	DRAWING	DATE	FED. PROJ. NO.	STATE	FEDERAL PROJECT NO.	SHEET NO.
09/2020	ORIGINAL	SEP. 2020		TEXAS		160
STATE DIST. NO.	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	HIGHWAY NO.	
PHARR	HIDALGO	6353	00	001	IH-2	

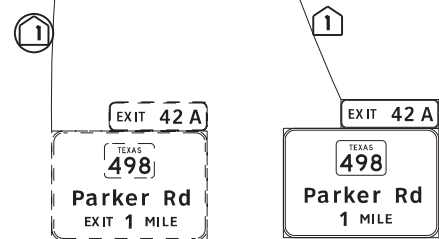
ETC. ETC.



Raquel Cantu 11.06.20

LEGEND

- LARGE SIGN TO BE REMOVED
- LARGE SIGN TO BE INSTALLED
- SMALL SIGN TO BE REMOVED
- SMALL SIGN TO BE INSTALLED
- SIGN TO REMAIN IN PLACE
- LARGE SIGN TO BE RELOCATED



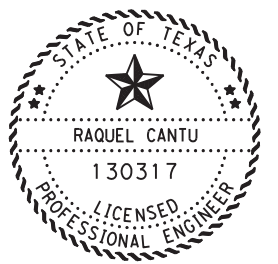
Lyford
NEXT 2 EXITS

TEXAS DEPARTMENT OF TRANSPORTATION
IH-69E
LARGE SIGN LAYOUTS

© 2020 SHEET 50 OF 53

DR: L.S.J	DRAWING	DATE	FED. PROJ. NO.	STATE	FEDERAL PROJECT NO.	SHEET
CK: DR: GV	ORIGINAL	SEP. 2020		TEXAS		161
DR: L.S.J			STATE DIST. NO.	COUNTY	CONTROL NO.	SECTION NO.
CK: DR: GV			PHARR	HIDALGO	6353	00 00

JOB NO. 1H-2
HIGHWAY NO. ETC.



Raquel Cantu 11.06.20

LEGEND

- LARGE SIGN TO BE REMOVED
- LARGE SIGN TO BE INSTALLED
- SMALL SIGN TO BE REMOVED
- SMALL SIGN TO BE INSTALLED
- SIGN TO REMAIN IN PLACE
- LARGE SIGN TO BE RELOCATED

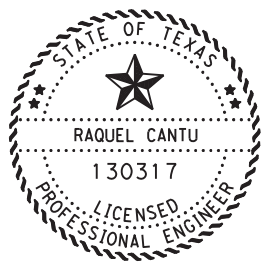


TEXAS DEPARTMENT OF TRANSPORTATION
IH-69E
LARGE SIGN LAYOUTS

© 2020 SHEET 51 OF 53

DR: L.S.J.	DRAWING	DATE	FED. NO. DIV. NO.	STATE	FEDERAL PROJECT NO.	SHEET NO.
CK: DR: G.V.	ORIGINAL	SEP. 2020		TEXAS		162
DR: L.S.J.			STATE DIST. NO.	COUNTY	CONTROL NO. SECTION NO. JOB NO.	ROUTE NO.
CK: DR: G.V.			PHARR	HIDALGO	6353 00 00	IH-2

ETC. ETC.



Raquel Cantu 11.06.20

LEGEND

- LARGE SIGN TO BE REMOVED
- LARGE SIGN TO BE INSTALLED
- SMALL SIGN TO BE REMOVED
- SMALL SIGN TO BE INSTALLED
- SIGN TO REMAIN IN PLACE
- LARGE SIGN TO BE RELOCATED



TEXAS DEPARTMENT OF TRANSPORTATION
IH-69E
LARGE SIGN LAYOUTS

© 2020 SHEET 52 OF 53

DR: L.S.J	DRAWING: ORIGINAL	DATE: SEP. 2020	FED. PROJ. NO.:	STATE: TEXAS	FEDERAL PROJECT NO.:	SHEET NO.:
CK: DV: G.V						163
DR: L.S.J			STATE DIST. NO.:	COUNTY:	CONTROL NO.:	SECTION NO.:
CK: DV: G.V			PHARR	HIDALGO	6353	00 001

JOB NO. 001 HIGHWAY NO. IH-2 ETC.

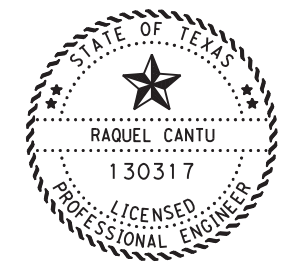
EXIT 48
 TEXAS 186
 Raymondville
 Port Mansfield
 EXIT 1/2 MILE

EXIT 48
 TEXAS 186
 Raymondville
 Port Mansfield
 1/2 MILE

N
 SCALE: N. T. S.



EXIT 51
 ↗
 ES-1C



Raquel Cantu 11.06.20

LEGEND

- LARGE SIGN TO BE REMOVED
- LARGE SIGN TO BE INSTALLED
- SMALL SIGN TO BE REMOVED
- SMALL SIGN TO BE INSTALLED
- SIGN TO REMAIN IN PLACE
- LARGE SIGN TO BE RELOCATED

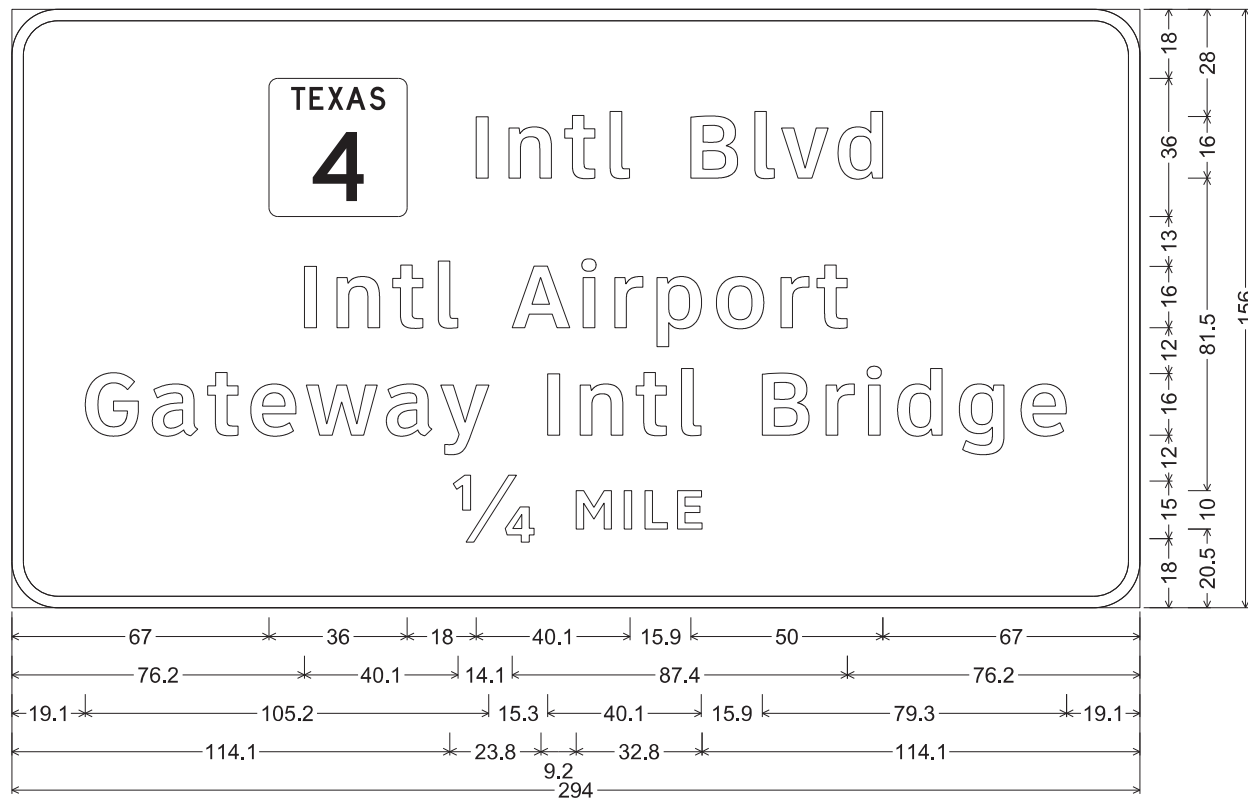
EXIT 51
 BUSINESS SOUTH 1762
 Conley Rd
 ↗

TEXAS DEPARTMENT OF TRANSPORTATION
IH-69E
LARGE SIGN LAYOUTS

© 2020 SHEET 53 OF 53

DR: L.S.J	DRAWING: ORIGINAL	DATE: SEP. 2020	FED. DIST. NO.:	STATE: TEXAS	FEDERAL PROJECT NO.:	SHEET NO.:
DR: L.S.J			STATE DIST. NO.:	COUNTY: PHARR	CONTROL NO.:	SECTION NO.:
DR: G.V.				HIDALGO	6353 00 00	JOB NO.:
						JOB NO.:

ETC. ETC.

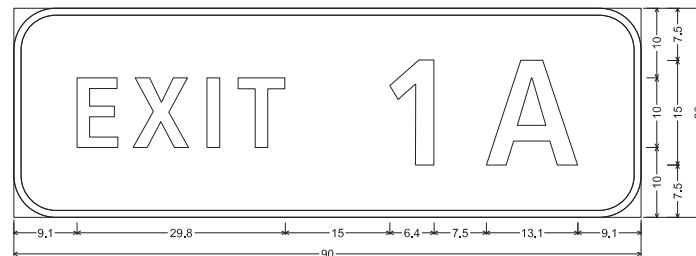


12.0" Radius, 3.0" Border, White on, Green;
 State Highway 4 M1-6T1; "Intl Blvd", ClearviewHwy-5-W-R; "Intl Airport", ClearviewHwy-5-W-R;
 "Gateway Intl Bridge", ClearviewHwy-5-W-R; "1/4 MILE", ClearviewHwy-5-W-R;

Table of letter and object lefts

4	l	n	t	l	B	l	v	d								
67.0	121.0	129.5	144.1	155.9	177.0	193.6	200.6	215.3								
l	n	t	l	A	i	r	p	o	r	t						
76.2	84.7	99.3	111.1	130.4	148.5	157.1	168.2	183.6	200.4	209.8						
G	a	t	e	w	a	y	l	n	t	l	B	r	i	d	g	e
19.1	36.6	51.0	62.3	76.7	97.6	111.8	139.6	148.1	162.7	174.5	195.6	212.2	222.9	230.8	246.9	263.0
1/4	M	I	L	E												
114.1	147.1	159.6	165.0	173.5												

SHEET NO. 1 OF 53 SIGN NO. 1

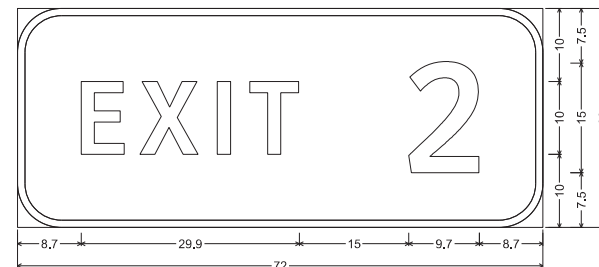


6.0" Radius, 1.0" Border, White on, Green;
 "EXIT", ClearviewHwy-4-W; "1", ClearviewHwy-4-W; "A", ClearviewHwy-4-W;

Table of letter and object lefts

E	X	I	T	1	A
9.1	17.1	27.7	32.2	53.9	67.8

- SHEET NO. 1 OF 53 SIGN NO. 1
- SHEET NO. 2 OF 53 SIGN NO. 1
- SHEET NO. 3 OF 53 SIGN NO. 1
- SHEET NO. 4 OF 53 SIGN NO. 1

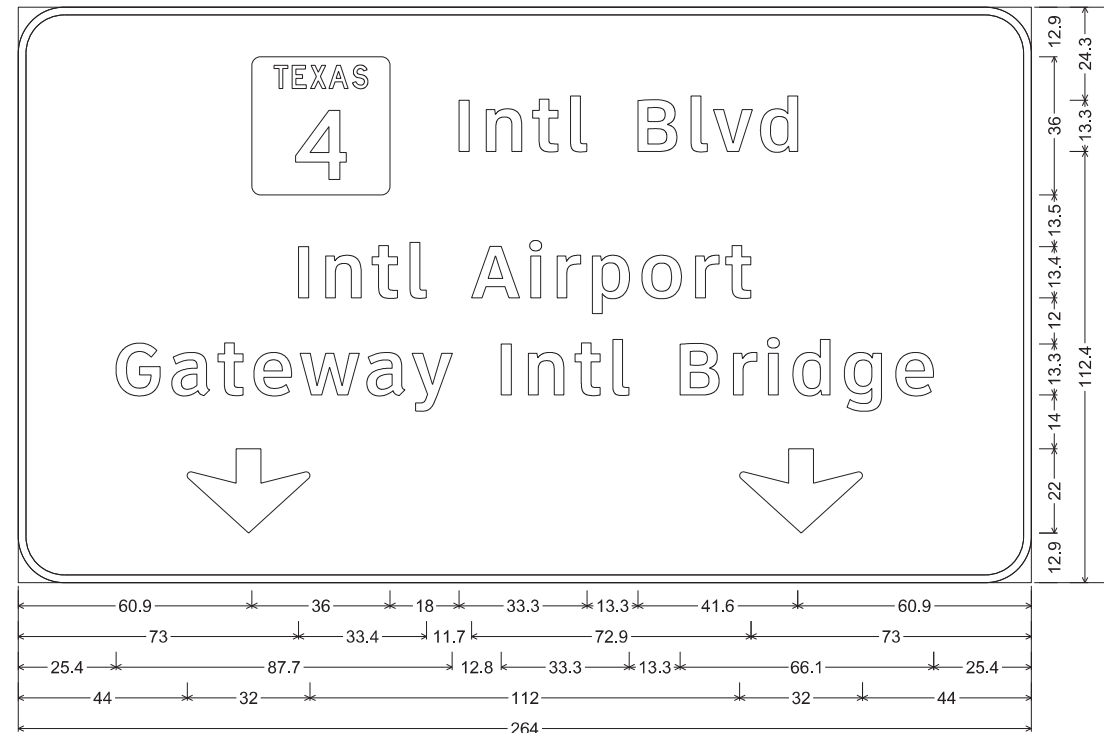


6.0" Radius, 1.0" Border, White on, Green;
 "EXIT", ClearviewHwy-4-W; "2", ClearviewHwy-4-W;

Table of letter and object lefts

E	X	I	T	2
8.7	16.7	27.4	31.8	53.6

- SHEET NO. 3 OF 53 SIGN NO. 2
- SHEET NO. 4 OF 53 SIGN NO. 3
- SHEET NO. 4 OF 53 SIGN NO. 5

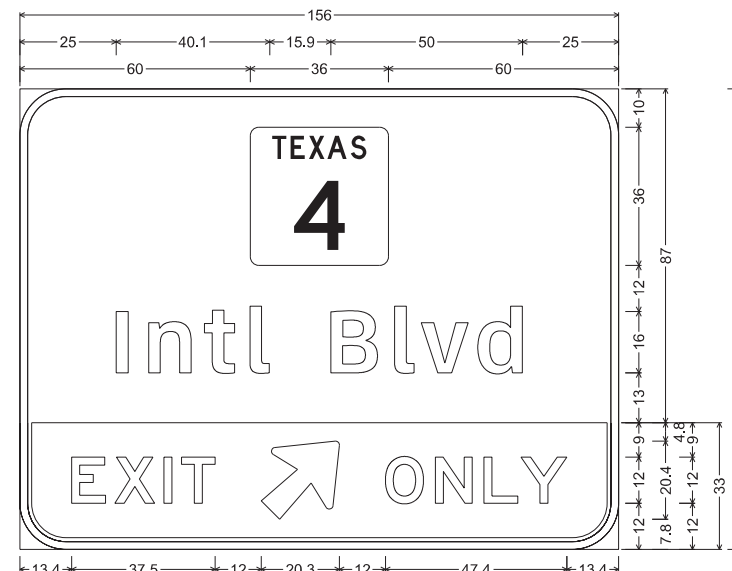


12.0" Radius, 2.0" Border, White on, Green;
 State Highway 4 M1-6T1; "Intl Blvd", ClearviewHwy-5-W-R; "Intl Airport", ClearviewHwy-5-W-R;
 "Gateway Intl Bridge", ClearviewHwy-5-W-R; Down Arrow 22 - 22.0" 270'; Down Arrow 22 - 22.0" 270';

Table of letter and object lefts

4	l	n	t	l	B	l	v	d								
60.9	114.9	121.9	134.1	143.9	161.5	175.3	181.1	193.4								
l	n	t	l	A	i	r	p	o	r	t						
73.0	80.1	92.2	102.1	118.1	133.3	140.4	149.6	162.5	176.5	184.4						
G	a	t	e	w	a	y	l	n	t	l	B	r	i	d	g	e
25.4	40.0	52.0	61.4	73.4	90.8	102.7	125.9	132.9	145.1	154.9	172.5	186.4	195.2	201.9	215.3	228.7
44.0	188.0															

SHEET NO. 2 OF 53 SIGN NO. 1

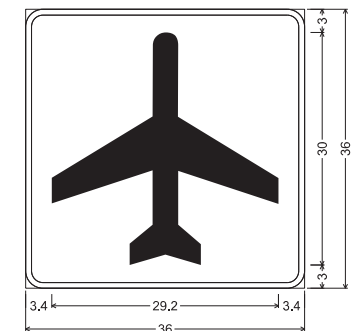


E11-1aR;
 12.0" Radius, 2.0" Border, White on, Green;
 State Highway 4 M1-6T1; "Intl Blvd", ClearviewHwy-5-W-R;
 E11-1e;
 1.0" Inner border Green, 12.0" Radius, 2.0" Outer border, White on, Yellow;
 "EXIT" Black, E; Arrow B-3 - 25.0" 45' Black; "ONLY" Black, E;

Table of letter and object lefts

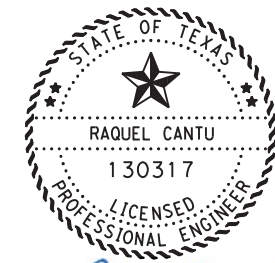
4	l	n	t	l	B	l	v	d
60.0	25.0	33.5	48.1	59.9	81.0	97.6	104.6	119.3
E	X	I	T	2	O	N	L	Y
13.4	24.7	37.5	42.1	62.9	95.2	108.3	120.9	130.6

SHEET NO. 3 OF 53 SIGN NO. 1



2.3" Radius, 0.8" Border, White on, Green;
 Symbol RA010;

- SHEET NO. 3 OF 53 SIGN NO. 2
- SHEET NO. 4 OF 53 SIGN NO. 3
- SHEET NO. 33 OF 53 SIGN NO. 2



Raquel Cantu 11.06.20

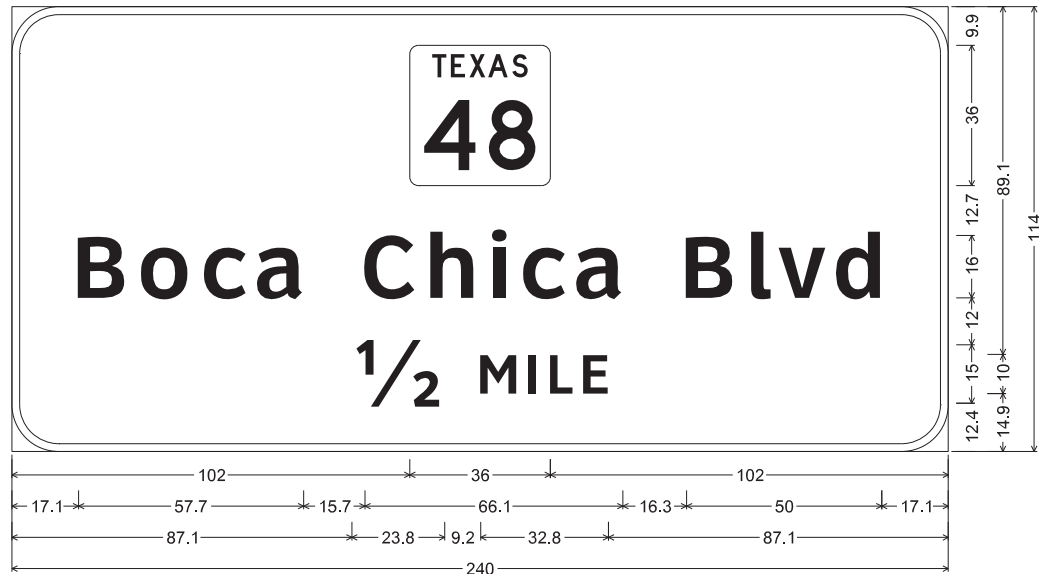
TEXAS DEPARTMENT OF TRANSPORTATION

IH-69E

LARGE SIGN DETAIL SHEETS

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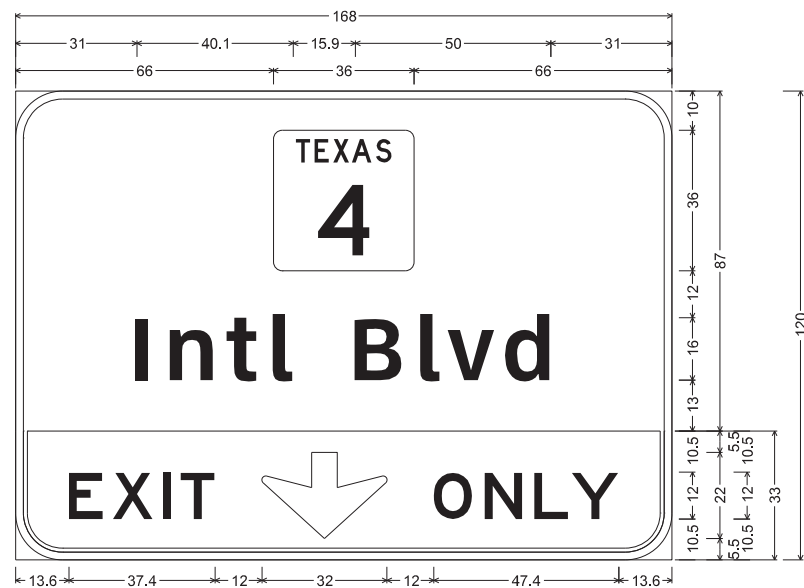
DN: LSJ	DRAWING ORIGINAL	DATE SEP. 2020	FED. DIST. NO.	STATE TEXAS	FEDERAL PROJECT NO.	SHEET NO. 165
CK DN: GV	DW: LSJ	CK DW: GV	STATE DIST. NO. PHARR	COUNTY HIDALGO,	CONTROL NO. 6353	SECTION NO. 00
			JOB NO. 001	HIGHWAY NO. IH-2,	ETC.	ETC.



12.0" Radius, 2.0" Border, White on, Green;
 State Highway 48 M1-6T2; "Boca Chica Blvd", ClearviewHwy-5-W-R; "1/2 MILE", ClearviewHwy-5-W-R;
 Table of widths and spaces

102.0	36.0	102.0															
B	o	c	a	C	h	i	c	a									
17.1	12.2	3.8	12.4	3.8	10.9	2.6	12.0	15.7	13.1	3.7	11.1	4.7	3.8	4.2	10.9	2.6	12.0
	B	o	l	v	d												
	16.3	12.2	4.5	5.1	1.8	12.2	2.6	11.6	17.1								
1/2	M	I	L	E													
87.1	23.8	9.2	9.2	3.3	2.0	3.4	5.9	2.6	6.4	87.1							

SHEET NO. 3 OF 53 SIGN NO. 2

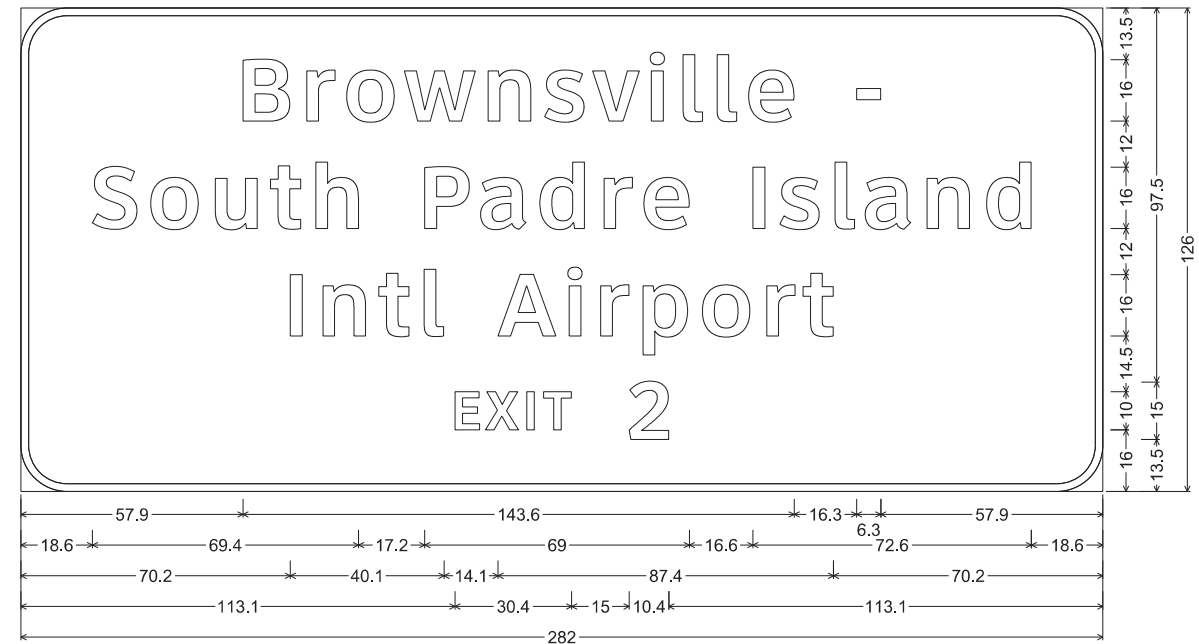


E11-1aR;
 12.0" Radius, 2.0" Border, White on, Green;
 State Highway 4 M1-6T1; "Intl Blvd", ClearviewHwy-5-W-R;

E11-1e;
 1.0" Inner border Green, 12.0" Radius, 2.0" Outer border, White on, Yellow;
 "EXIT" Black, E; Down Arrow Custom - 22.0" 270" Black; "ONLY" Black, E;
 Table of letter and object lefts

66.0								
I	n	t	l	B	l	v	d	
31.0	39.5	54.1	65.9	87.0	103.6	110.6	125.3	
E	X	I	T	O	N	L	Y	
13.6	24.9	37.7	42.2	63.0	107.0	120.1	132.7	142.4

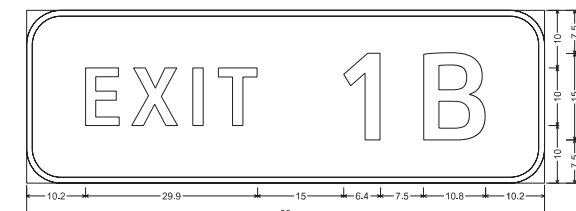
SHEET NO. 4 OF 53 SIGN NO. 1



12.0" Radius, 2.0" Border, White on, Green;
 "Brownsville -", ClearviewHwy-5-W-R; "South Padre Island", ClearviewHwy-5-W-R; "Intl Airport", ClearviewHwy-5-W-R;
 "EXIT", ClearviewHwy-5-W-R; "2", ClearviewHwy-5-W-R;
 Table of widths and spaces

57.9	B	r	o	w	n	s	v	i	l	l	e	-	57.9													
18.6	12.2	4.4	7.4	3.0	12.4	2.6	18.6	3.3	11.1	3.6	10.3	2.2	12.2	2.8	3.8	4.8	5.1	3.8	5.1	3.1	11.8	16.3	6.3	57.9		
18.6	S	o	u	t	h	P	a	d	r	e																
11.7	3.5	12.4	4.4	11.0	3.4	8.0	3.9	11.1	17.2	11.7	2.9	11.9	3.6	11.6	5.1	7.4	3.0	11.8								
16.6	I	s	l	a	n	d																				
3.2	3.8	10.3	4.1	5.1	2.8	11.9	4.1	11.2	4.4	11.7	18.6															
70.2	I	n	t	l	A	i	r	p	o	r	t															
3.3	5.2	11.1	3.5	7.9	3.9	5.2	14.1	15.2	2.9	3.8	4.8	7.4	3.7	11.6	3.8	12.4	4.4	7.4	2.0	8.0	70.2					
113.1	E	X	I	T	2																					
6.4	1.5	8.7	2.1	2.1	2.3	7.3	15.0	10.4	113.1																	

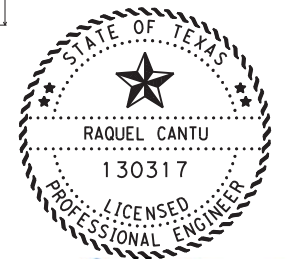
SHEET NO. 3 OF 53 SIGN NO. 3



6.0" Radius, 1.0" Border, White on, Green;
 "EXIT", ClearviewHwy-4-W; "1", ClearviewHwy-4-W; "B", ClearviewHwy-4-W;
 Table of letter and object lefts

E	X	I	T	1	B
10.2	18.3	28.2	33.4	55.1	69.0

SHEET NO. 4 OF 53 SIGN NO. 2
 SHEET NO. 6 OF 53 SIGN NO. 1



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TEXAS DEPARTMENT OF TRANSPORTATION
 IH-69E
 LARGE SIGN DETAIL SHEETS

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DN: LSJ	DRAWING	DATE	TITLE	STATE	FEDERAL PROJECT NO.	SHEET
CK DN: GV	ORIGINAL	SEP. 2020		TEXAS		166
DW: LSJ			STATE	COUNTY	CONTROL	SECTION
CK DW: GV			PHARR	HIDALGO,	6353	00 001
				ETC.		ETC.

SHEET NO. 4 OF 53 SIGN NO. 2



E11-1aR;
 12.0" Radius, 2.0" Border, White on, Green;
 State Highway 48 M1-6T2; "Boca Chica Blvd", ClearviewHwy-5-W-R;

E11-1e;
 1.0" Inner border Green, 12.0" Radius, 2.0" Outer border, White on, Yellow;
 "EXIT" Black, E; Down Arrow Custom - 22.0" 270' Black; "ONLY" Black, E;
 Table of letter and object lefts

LEG												
105.0												
B	o	c	a	C	h	i	c	a	B	l	v	d
20.1	36.1	52.3	65.8	93.5	110.3	126.1	134.1	147.6	175.9	192.6	199.5	214.3
E	X	I	T	↕	O	N	L	Y				
52.6	63.9	76.7	81.2	102.0	146.0	159.1	171.7	181.4				

SHEET NO. 4 OF 53 SIGN NO. 3

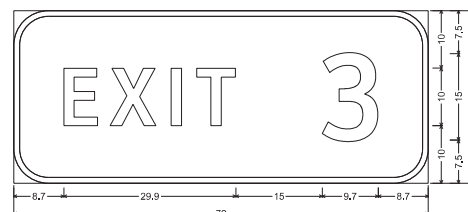


E11-1aR;
 12.0" Radius, 2.0" Border, White on, Green;
 State Highway 48 M1-6T2; "Boca Chica Blvd", ClearviewHwy-5-W-R;

E11-1e;
 1.0" Inner border Green, 12.0" Radius, 2.0" Outer border, White on, Yellow;
 "EXIT" Black, E; Arrow B-3 - 25.0" 45' Black; "ONLY" Black, E;
 Table of letter and object lefts

LEG												
105.0												
B	o	c	a	C	h	i	c	a	B	l	v	d
20.1	36.1	52.3	65.8	93.5	110.3	126.1	134.1	147.6	175.9	192.6	199.5	214.3
E	X	I	T	↗	O	N	L	Y				
58.4	69.7	82.5	87.1	107.9	140.2	153.3	165.9	175.6				

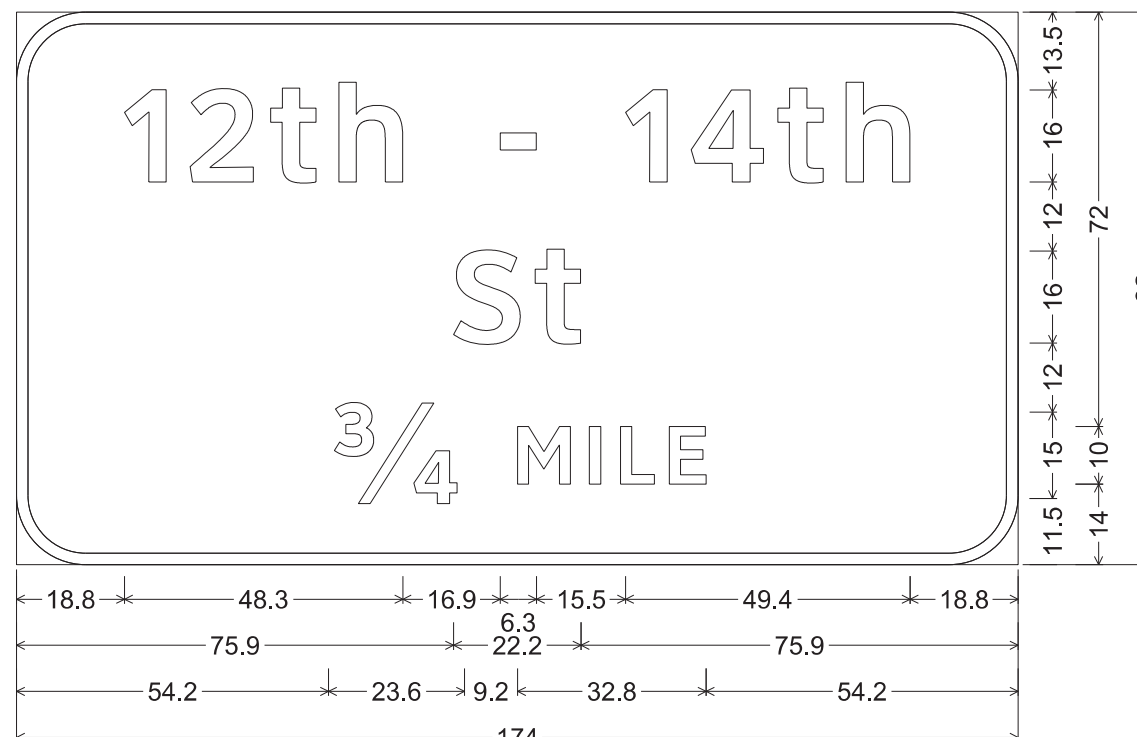
SHEET NO. 4 OF 53 SIGN NO. 5



6.0" Radius, 1.0" Border, White on, Green;
 "EXIT", ClearviewHwy-4-W; "3", ClearviewHwy-4-W;
 Table of letter and object lefts

E	X	I	T	3
8.7	16.7	27.3	31.8	53.6

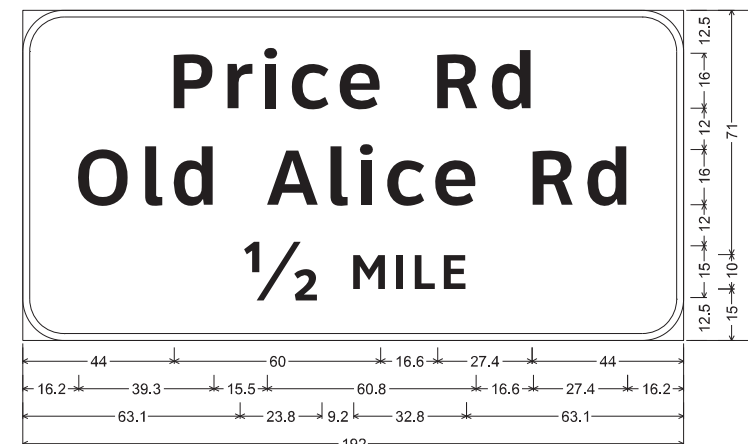
SHEET NO. 4 OF 53 SIGN NO. 4
 SHEET NO. 5 OF 53 SIGN NO. 1
 SHEET NO. 6 OF 53 SIGN NO. 4
 SHEET NO. 9 OF 53 SIGN NO. 1



12.0" Radius, 2.0" Border, White on, Green;
 "12th - 14th", ClearviewHwy-5-W-R; "St", ClearviewHwy-5-W-R;
 "3/4 MILE", ClearviewHwy-5-W-R;
 Table of widths and spaces

18.8	1	2	t	h	-				
7.3	4.0	11.1	3.0	7.9	3.9	11.1	16.9	6.3	
15.5	1	4	t	h	18.8				
7.3	4.1	12.6	2.5	7.9	3.9	11.1	18.8		
75.9	S	t	75.9						
11.7	2.5	8.0	75.9						
54.2	3/4	M	I	L	E	54.2			
23.6	9.2	9.2	3.3	2.1	3.4	5.8	2.6	6.4	54.2

SHEET NO. 6 OF 53 SIGN NO. 1

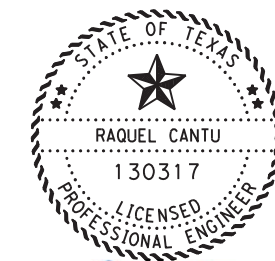


12.0" Radius, 2.0" Border, White on, Green;
 "Price Rd", ClearviewHwy-5-W-R; "Old Alice Rd", ClearviewHwy-5-W-R;
 "1/2 MILE", ClearviewHwy-5-W-R;

Table of widths and spaces

44.0	P	r	i	c	e	R	d	44.0						
11.7	3.9	7.4	3.2	3.8	4.2	10.9	3.0	11.9	16.6	11.9	3.8	11.7	44.0	
16.2	O	l	d	A	l	i	c	e						
14.9	4.6	5.1	3.1	11.6	15.5	15.2	3.3	5.2	3.3	3.8	4.2	10.9	3.0	11.9
16.6	R	d	16.2											
11.9	3.8	11.7	16.2											
1/2	M	I	L	E	63.1									
23.8	9.2	9.2	3.3	2.0	3.4	5.9	2.6	6.4	63.1					

SHEET NO. 4 OF 53 SIGN NO. 4

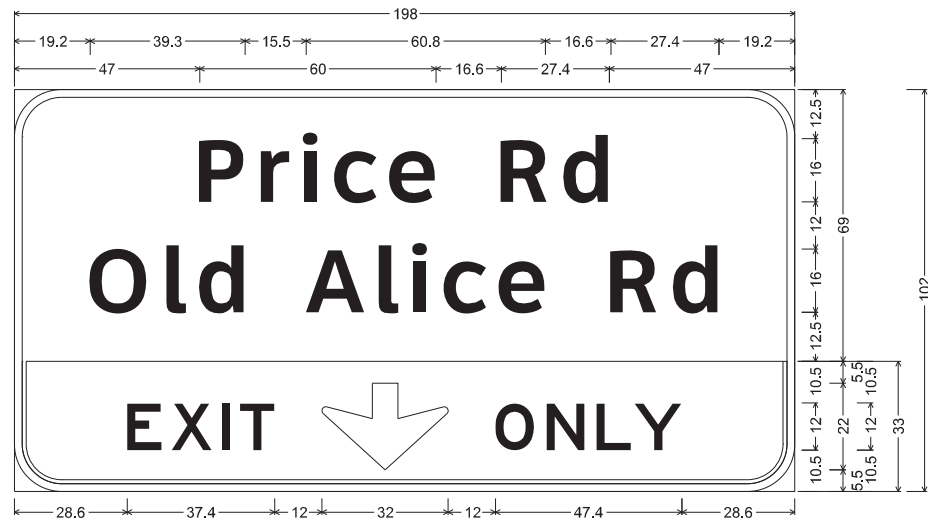


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TEXAS DEPARTMENT OF TRANSPORTATION
 IH-69E
 LARGE SIGN DETAIL SHEETS

© 2020 SHEET 3 OF 23

DN: LSJ	DRAWING	DATE	TITLE	STATE	FEDERAL PROJECT NO.	SHEET
CK DN: GV	ORIGINAL	SEP. 2020		TEXAS		167
DW: LSJ			STATE	COUNTY	CONTROL	SECTION
CK DW: GV			DIST. NO.	PHARR	NO.	NO.
				HIDALGO,	6353	00
				ETC.	001	001
						1H-2,
						ETC.



E11-1aR;

12.0" Radius, 2.0" Border, White on, Green;
 "Price Rd", ClearviewHwy-5-W-R; "Old Alice Rd", ClearviewHwy-5-W-R;

E11-1e;

1.0" Inner border Green, 12.0" Radius, 2.0" Outer border, White on, Yellow;
 "EXIT" Black, E; Down Arrow Custom - 22.0" 270' Black; "ONLY" Black, E;

Table of letter and object lefts

P	r	i	c	e	R	d			
47.0	62.6	73.2	81.2	95.1	123.6	139.3			
O	l	d	A	l	i	c	e	R	d
19.2	38.7	46.9	74.0	92.5	101.0	109.0	122.9	151.4	167.1
E	X	I	T	↓	O	N	L	Y	
28.6	39.9	52.7	57.2	78.0	122.0	135.1	147.7	157.4	

SHEET NO. 5 OF 53 SIGN NO. 1



E11-1aR;

12.0" Radius, 2.0" Border, White on, Green;
 "Price Rd", ClearviewHwy-5-W-R; "Old Alice Rd", ClearviewHwy-5-W-R;

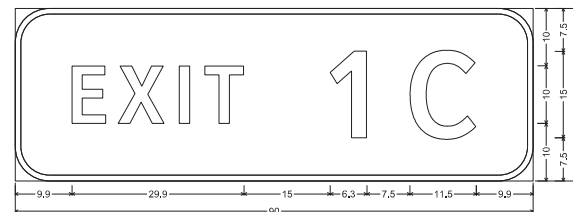
E11-1e;

1.0" Inner border Green, 12.0" Radius, 2.0" Outer border, White on, Yellow;
 "EXIT" Black, E; Arrow B-3 - 25.0" 45' Black; "ONLY" Black, E;

Table of letter and object lefts

P	r	i	c	e	R	d			
47.0	62.6	73.2	81.2	95.1	123.6	139.3			
O	l	d	A	l	i	c	e	R	d
19.2	38.7	46.9	74.0	92.5	101.0	109.0	122.9	151.4	167.1
E	X	I	T	↗	O	N	L	Y	
34.4	45.7	58.5	63.1	83.9	116.2	129.3	141.9	151.6	

SHEET NO. 6 OF 53 SIGN NO. 4

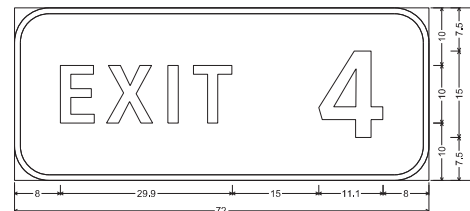


6.0" Radius, 1.0" Border, White on, Green;
 "EXIT", ClearviewHwy-4-W; "1", ClearviewHwy-4-W; "C", ClearviewHwy-4-W;

Table of letter and object lefts

E	X	I	T	1	C
9.9	17.9	28.5	33.0	54.8	66.6

SHEET NO. 6 OF 53 SIGN NO. 2

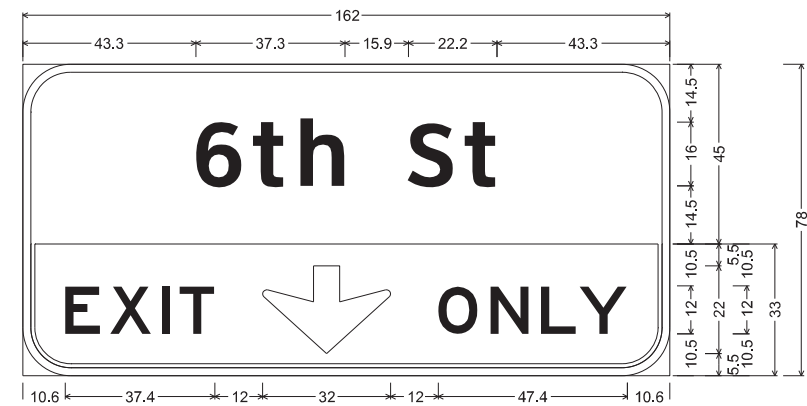


6.0" Radius, 1.0" Border, White on, Green;
 "EXIT", ClearviewHwy-4-W; "4", ClearviewHwy-4-W;

Table of letter and object lefts

E	X	I	T	4
8.0	16.0	26.6	31.1	52.9

SHEET NO. 6 OF 53 SIGN NO. 3
 SHEET NO. 10 OF 53 SIGN NO. 1



E11-1aR;

12.0" Radius, 2.0" Border, White on, Green;
 "6th St", ClearviewHwy-5-W-R;

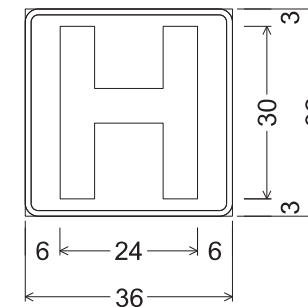
E11-1e;

1.0" Inner border Green, 12.0" Radius, 2.0" Outer border, White on, Yellow;
 "EXIT" Black, E; Down Arrow Custom - 22.0" 270' Black; "ONLY" Black, E;

Table of letter and object lefts

6	t	h	S	t				
43.3	57.7	69.5	96.5	110.7				
E	X	I	T	↓	O	N	L	Y
10.6	21.9	34.7	39.2	60.0	104.0	117.1	129.7	139.4

SHEET NO. 6 OF 53 SIGN NO. 2



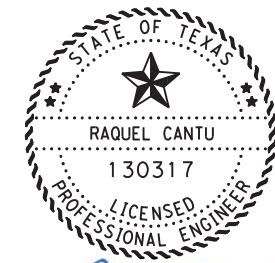
2.3" Radius, 1.0" Border, White on, Blue;

"H", E Mod;

Table of widths and spaces

H
6.0 24.0 6.0

- SHEET NO. 6 OF 53 SIGN NO. 3
- SHEET NO. 10 OF 53 SIGN NO. 1
- SHEET NO. 30 OF 53 SIGN NO. 1
- SHEET NO. 32 OF 53 SIGN NO. 1
- SHEET NO. 32 OF 53 SIGN NO. 2
- SHEET NO. 33 OF 53 SIGN NO. 1
- SHEET NO. 33 OF 53 SIGN NO. 2
- SHEET NO. 33 OF 53 SIGN NO. 1
- SHEET NO. 33 OF 53 SIGN NO. 2



Raquel Cantu 11.06.20

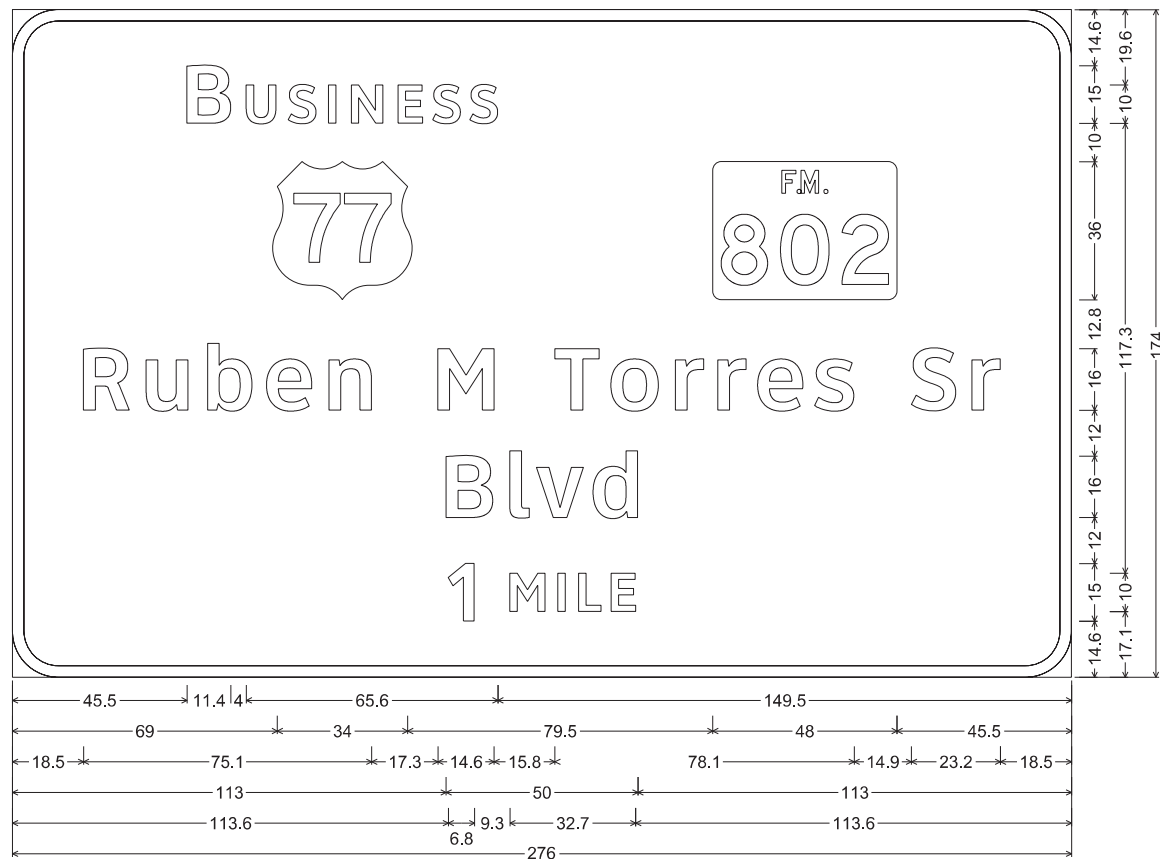
TEXAS DEPARTMENT OF TRANSPORTATION

IH-69E

LARGE SIGN DETAIL SHEETS

© 2020 SHEET 4 OF 23

DN: LSJ	DRAWING ORIGINAL	DATE SEP. 2020	FED. DIST. NO.	STATE TEXAS	FEDERAL PROJECT NO.	SHEET NO. 168
CK DN: GY	DW: LSJ	CK DW: GY	STATE DIST. NO. PHARR	COUNTY HIDALGO,	CONTROL NO. 6353	SECTION NO. 00
						JOB NO. 001
						HIGHWAY NO. IH-2,
						ETC.



12.0" Radius, 3.0" Border, White on, Green;
 "B", ClearviewHwy-5-W; "BUSINESS", ClearviewHwy-5-W; US 77 M1-4; State Highway 802 3;
 "Ruben M Torres Sr", ClearviewHwy-5-W-R; "Blvd", ClearviewHwy-5-W-R; "1 MILE", ClearviewHwy-5-W-R;
 Table of widths and spaces

B	11.4	4.0	U	7.8	3.2	S	7.3	3.1	I	2.1	N	3.9	E	6.5	S	2.4	S	7.3	149.5
---	------	-----	---	-----	-----	---	-----	-----	---	-----	---	-----	---	-----	---	-----	---	-----	-------

77	34.0	79.5	802	48.0	45.5
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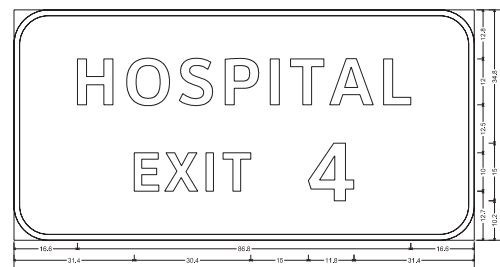
R	11.9	4.5	u	10.9	5.1	b	11.6	3.7	e	11.9	4.4	n	11.1	17.3	M	14.6	15.8	T	11.7	3.0	o	12.4	4.4	r	7.4	3.6	r	7.4	3.0	e	11.9	3.0	s	10.3
---	------	-----	---	------	-----	---	------	-----	---	------	-----	---	------	------	---	------	------	---	------	-----	---	------	-----	---	-----	-----	---	-----	-----	---	------	-----	---	------

S	11.6	4.2	r	7.4	18.5
---	------	-----	---	-----	------

B	12.2	4.4	l	5.2	1.8	v	12.2	2.5	d	11.7	113.0
---	------	-----	---	-----	-----	---	------	-----	---	------	-------

1	6.8	9.3	M	9.1	3.3	I	3.4	L	5.8	2.6	E	6.4	113.6
---	-----	-----	---	-----	-----	---	-----	---	-----	-----	---	-----	-------

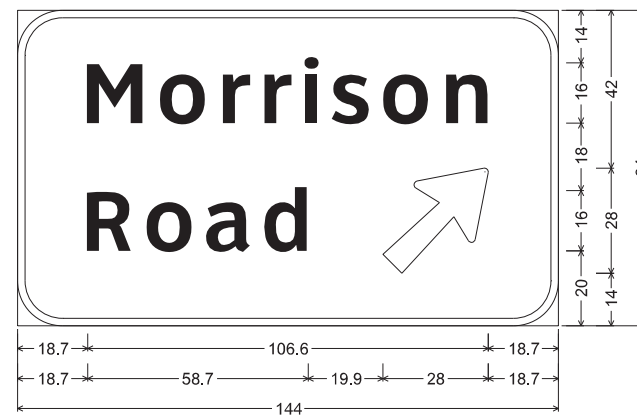
SHEET NO. 6 OF 53 SIGN NO. 3



12.0" Radius, 2.0" Border, White on, Blue;
 "HOSPITAL", ClearviewHwy-5-W-R; "EXIT", ClearviewHwy-5-W-R;
 Table of letter and object lefts

H	5.1	5.1	P	1.1	L	1.1	A	1.1
E	5.1	5.1	T	1.1	4	1.1		

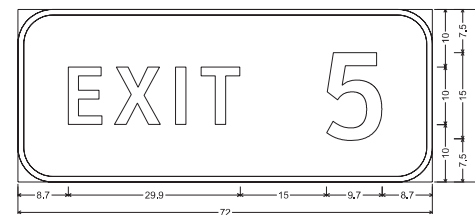
SHEET NO. 6 OF 53 SIGN NO. 5



12.0" Radius, 2.0" Border, White on, Green;
 "Morrison", ClearviewHwy-5-W-R; "Road", ClearviewHwy-5-W-R;
 Arrow A-3 - 35.6" 45";
 Table of widths and spaces

M	14.7	4.6	o	12.4	4.4	r	7.4	3.6	r	7.4	3.3	i	3.8	3.3	s	10.3	3.5	o	12.3	4.5	n	11.1	18.7
---	------	-----	---	------	-----	---	-----	-----	---	-----	-----	---	-----	-----	---	------	-----	---	------	-----	---	------	------

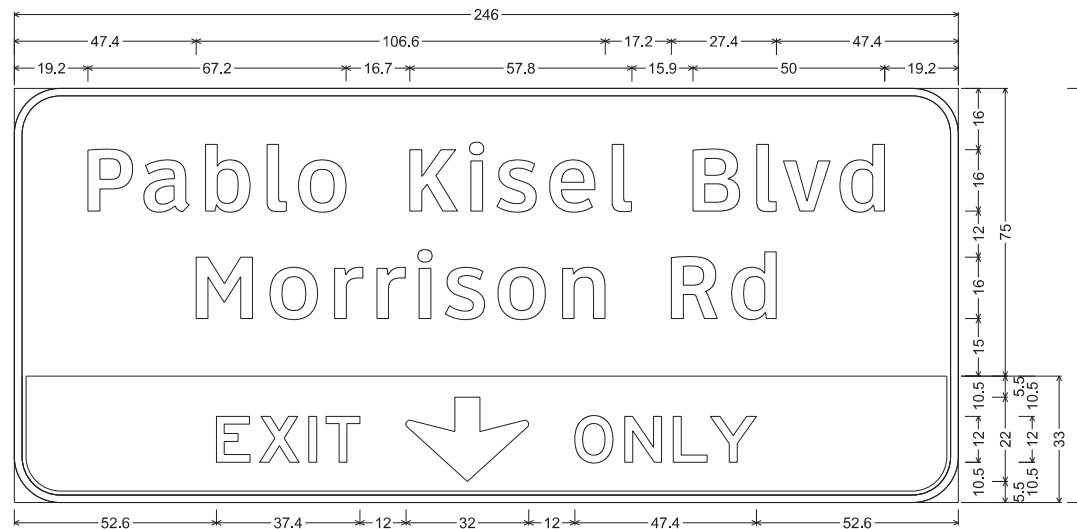
SHEET NO. 10 OF 53 SIGN NO. 2



6.0" Radius, 1.0" Border, White on, Green;
 "EXIT", ClearviewHwy-4-W; "5", ClearviewHwy-4-W;
 Table of letter and object lefts

E	8.7	I	17.4	31.8	53.6
---	-----	---	------	------	------

SHEET NO. 8 OF 53 SIGN NO. 1
 SHEET NO. 10 OF 53 SIGN NO. 2

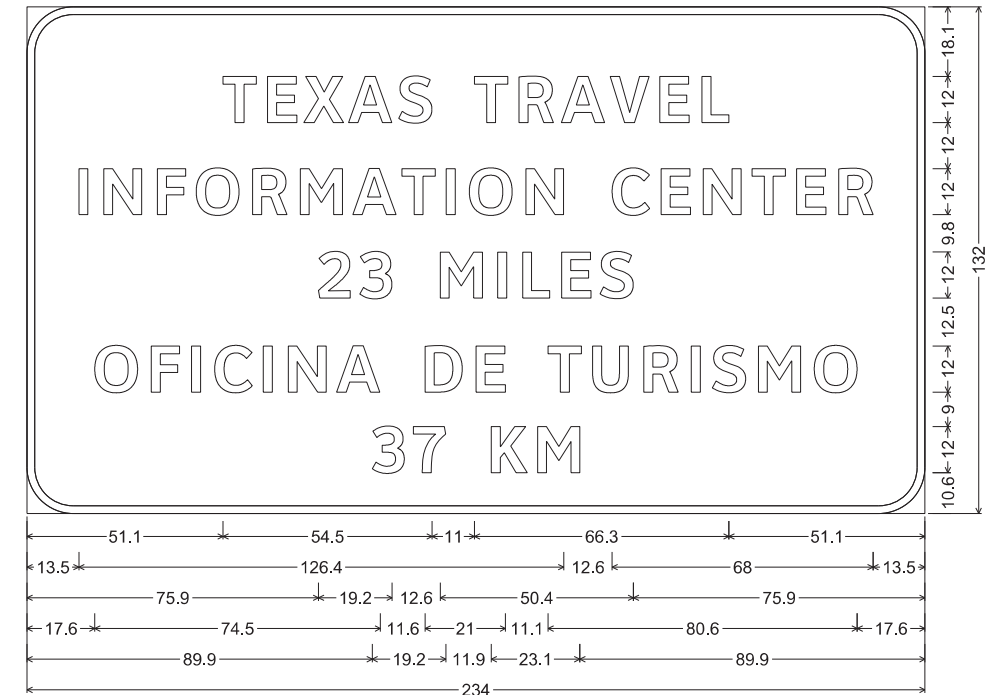


E11-1aR;
 12.0" Radius, 2.0" Border, White on, Green;
 "Pablo Kisel Blvd", ClearviewHwy-5-W-R; "Morrison Rd", ClearviewHwy-5-W-R;

E11-1e;
 1.0" Inner border Green, 12.0" Radius, 2.0" Outer border, White on, Yellow;
 "EXIT" Black, E; Down Arrow Custom - 22.0" 270° Black; "ONLY" Black, E;
 Table of letter and object lefts

P	a	b	l	o	k	i	s	e	l	B	l	v	d
19.2	33.7	49.8	65.8	74.1	103.1	118.6	125.8	139.5	155.8	176.8	193.5	200.4	215.2
M	o	r	r	i	s	o	n	R	d				
47.4	66.6	83.5	94.5	105.1	112.3	126.0	142.8	171.2	187.0				
E	X	I	T	O	N	L	Y						
52.6	63.9	76.7	81.2	102.0	146.0	159.1	171.7	181.4					

SHEET NO. 8 OF 53 SIGN NO. 1



12.0" Radius, 2.0" Border, White on, Green;
 "TEXAS TRAVEL", ClearviewHwy-5-W-R; "INFORMATION CENTER", ClearviewHwy-5-W-R;
 "23 MILES", ClearviewHwy-5-W-R; "OFICINA DE TURISMO", ClearviewHwy-5-W-R;
 "37 KM", ClearviewHwy-5-W-R;
 Table of widths and spaces

T	8.7	E	7.6	1.9	X	10.4	1.2	A	11.4	1.6	S	8.8	11.0	8.8	2.8	R	9.0	2.1	A	11.4	1.2	V	10.4	2.6	E	7.7	3.3	L	7.0	51.1
---	-----	---	-----	-----	---	------	-----	---	------	-----	---	-----	------	-----	-----	---	-----	-----	---	------	-----	---	------	-----	---	-----	-----	---	-----	------

I	2.4	4.1	N	9.9	4.1	F	7.4	2.7	O	11.2	3.5	R	8.9	3.5	M	11.0	2.7	A	11.4	1.4	T	8.8	2.7	I	2.5	3.6	O	11.2	3.5	N	9.9
---	-----	-----	---	-----	-----	---	-----	-----	---	------	-----	---	-----	-----	---	------	-----	---	------	-----	---	-----	-----	---	-----	-----	---	------	-----	---	-----

C	9.8	2.9	E	7.7	3.3	N	9.9	2.9	T	8.7	2.9	E	7.6	3.3	R	9.0	13.5
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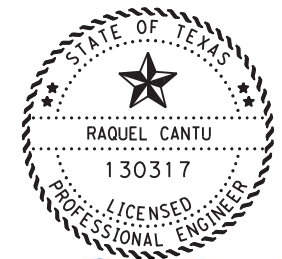
2	8.3	2.5	3	8.4	12.6	M	11.0	4.0	I	2.4	4.1	L	7.0	3.1	E	7.7	2.3	S	8.8	75.9
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O	11.2	3.6	F	7.3	3.2	I	2.4	3.6	C	9.8	2.9	I	2.4	4.1	N	9.9	2.7	A	11.4	11.6	D	9.7	3.6	E	7.7
---	------	-----	---	-----	-----	---	-----	-----	---	-----	-----	---	-----	-----	---	-----	-----	---	------	------	---	-----	-----	---	-----

T	8.8	2.8	U	9.4	4.0	R	8.9	3.4	I	2.4	3.1	S	8.7	3.3	M	11.0	3.6	O	11.2	17.6
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3	8.5	2.3	7	8.4	11.9	K	9.4	2.7	M	11.0	89.9
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SHEET NO. 7 OF 53 SIGN NO. 1

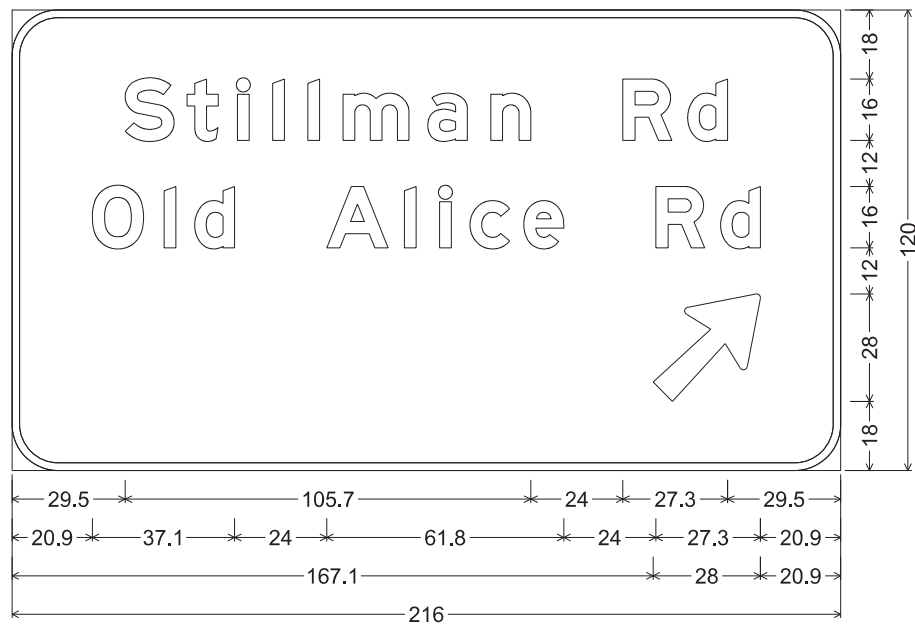


Raquel Cantu 11.06.20

TEXAS DEPARTMENT OF TRANSPORTATION
 IH-69E
 LARGE SIGN DETAIL SHEETS

© 2020 SHEET 5 OF 23

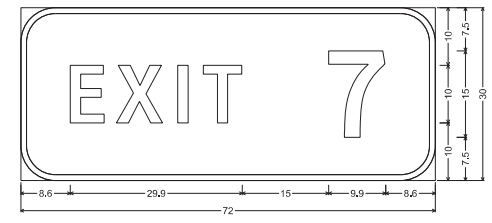
DN: LSJ	DRAWING ORIGINAL	DATE SEP. 2020	FED. DIST. NO.	STATE TEXAS	FEDERAL PROJECT NO.	SHEET NO. 169
CK DN: GY	DW: LSJ	CK DW: GY	STATE DIST. NO. PHARR	COUNTY HIDALGO,	CONTROL NO. 6353	SECTION NO. 00
					JOB NO. 001	HIGHWAY NO. IH-2,
						ETC.



12.0" Radius, 2.0" Border, White on, Green;
 "Stillman Rd", E Mod; "Old Alice Rd", E Mod; Arrow A-3 - 35.6" 45';
 Table of letter and object lefts

S	t	l	l	l	m	a	n	R	d
29.5	45.6	58.8	67.9	77.1	86.3	108.4	124.8	159.2	176.1
O	i	d	A	l	i	c	e	R	d
20.9	39.7	47.6	82.0	102.3	111.4	119.4	133.4	167.8	184.7

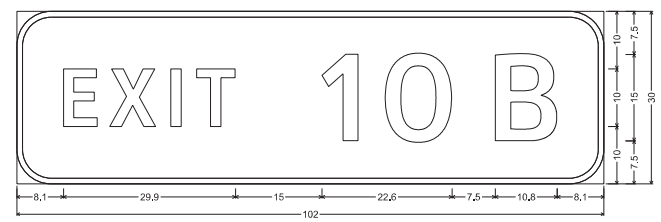
167.1 SHEET NO. 12 OF 53 SIGN NO. 2



6.0" Radius, 1.0" Border, White on, Green;
 "EXIT", ClearviewHwy-4W; "7", ClearviewHwy-4W;
 Table of letter and object lefts

E	X	I	T	7
8.0	16.6	27.2	31.7	53.5

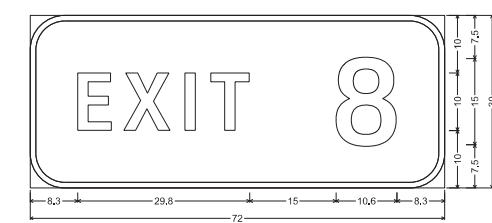
SHEET NO. 12 OF 53 SIGN NO. 2



6.0" Radius, 1.0" Border, White on, Green;
 "EXIT", ClearviewHwy-4W; "10", ClearviewHwy-4W; "B", ClearviewHwy-4W;
 Table of letter and object lefts

E	X	I	T	1	0	B
8.1	16.1	26.8	31.2	53.0	64.0	83.1

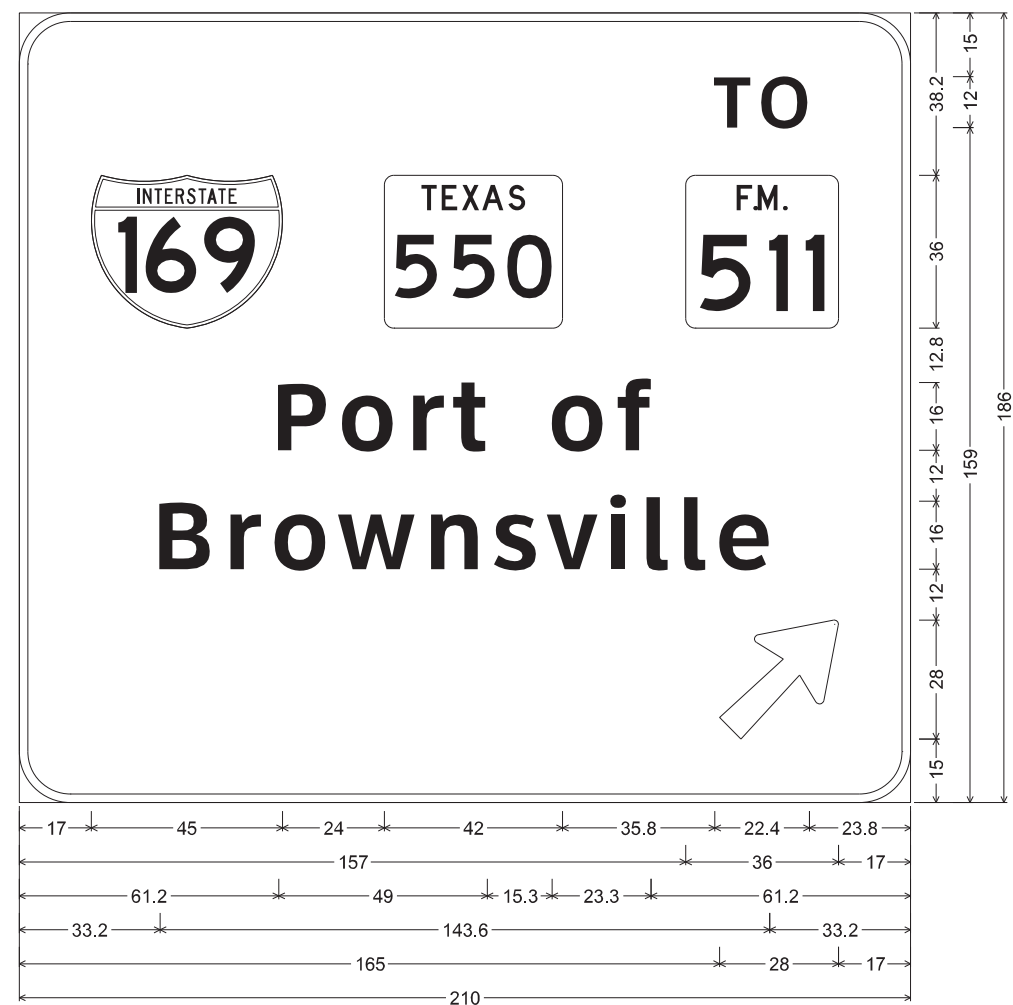
SHEET NO. 14 OF 53 SIGN NO. 2
 SHEET NO. 15 OF 53 SIGN NO. 1
 SHEET NO. 15 OF 53 SIGN NO. 2
 SHEET NO. 17 OF 53 SIGN NO. 1



6.0" Radius, 1.0" Border, White on, Green;
 "EXIT", ClearviewHwy-4W; "8", ClearviewHwy-4W;
 Table of letter and object lefts

E	X	I	T	8
8.3	16.3	26.9	31.4	53.1

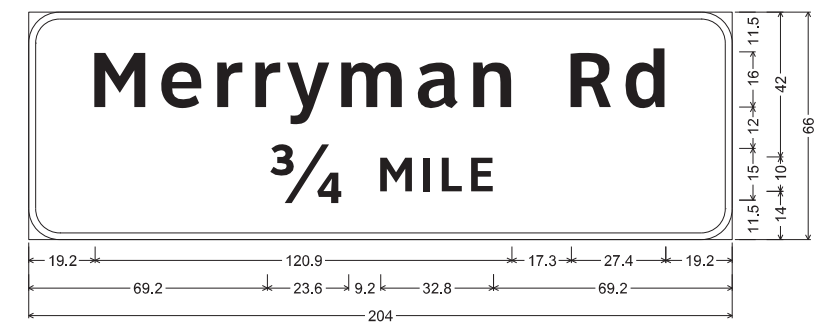
SHEET NO. 11 OF 53 SIGN NO. 1
 SHEET NO. 13 OF 53 SIGN NO. 1
 SHEET NO. 14 OF 53 SIGN NO. 1



12.0" Radius, 2.0" Border, White on, Green;
 Interstate 169 M1-1; State Highway 550 M1-6T3 15.0" D; "TO", ClearviewHwy-5-W-R;
 State Highway 511 3; "Port of", ClearviewHwy-5-W-R; "Brownsville", ClearviewHwy-5-W-R;
 Arrow A-3 - 35.6" 45';
 Table of widths and spaces

17.0	45.0	24.0	42.0	35.8	8.8	2.4	11.2	23.8																												
157.0	36.0	17.0																																		
61.2	P	11.6	3.3	o	12.4	4.4	r	7.4	2.0	t	7.9	15.3	o	12.4	3.2	f	7.7	61.2																		
33.2	B	12.2	4.4	r	7.4	3.0	o	12.4	2.6	w	18.6	3.3	n	11.1	3.6	s	10.3	2.2	v	12.2	2.8	i	3.8	4.8	l	5.1	3.8	l	5.1	3.1	e	11.8	33.2			
165.0	28.0	17.0																																		

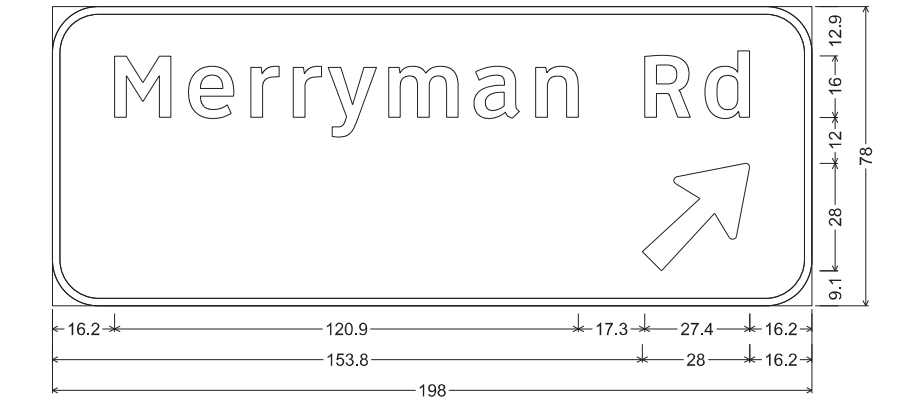
SHEET NO. 14 OF 53 SIGN NO. 2



9.0" Radius, 2.0" Border, White on, Green;
 "Merryman Rd", ClearviewHwy-5-W-R; "3/4 MILE", ClearviewHwy-5-W-R;
 Table of widths and spaces

19.2	M	14.7	4.6	e	11.8	4.5	r	7.4	3.6	r	7.4	1.7	y	12.5	3.3	m	18.0	4.2	a	11.9	4.2	n	11.1
	R	17.3	11.9	3.8	d	11.7	19.2																
69.2	3/4	23.6	9.2	9.2	3.3	2.1	3.4	L	5.8	2.6	E	6.4	69.2										

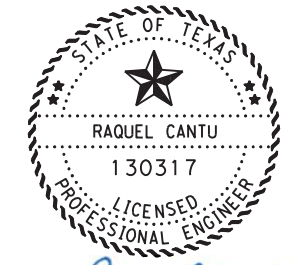
SHEET NO. 14 OF 53 SIGN NO. 1



12.0" Radius, 2.0" Border, White on, Green;
 "Merryman Rd", ClearviewHwy-5-W-R; Arrow A-3 - 35.6" 45';
 Table of widths and spaces

16.2	M	14.7	4.6	e	11.8	4.5	r	7.4	3.6	r	7.4	1.7	y	12.5	3.3	m	18.0	4.2	a	11.9	4.2	n	11.1
	R	17.3	11.9	3.8	d	11.7	16.2																
153.8	28.0	16.2																					

SHEET NO. 13 OF 53 SIGN NO. 1

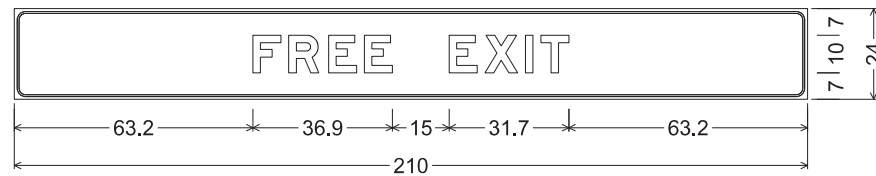


Raquel Cantu 11.06.20

TEXAS DEPARTMENT OF TRANSPORTATION
 IH-69E
 LARGE SIGN DETAIL SHEETS

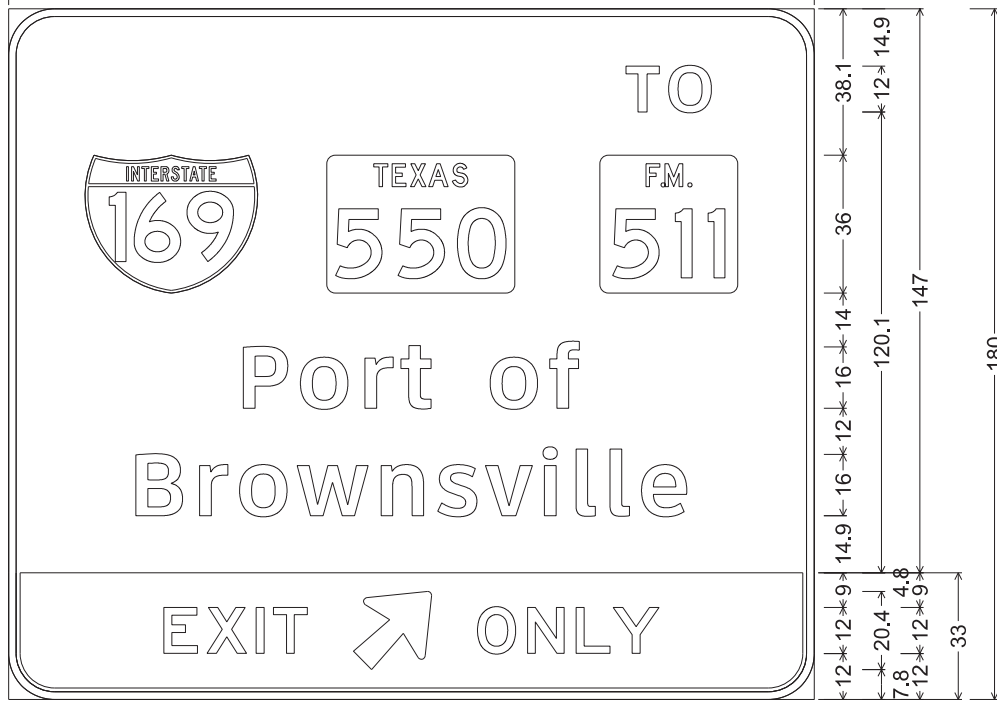
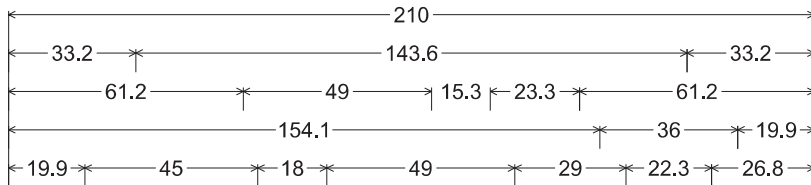
© 2020 SHEET 7 OF 23

DN: LSJ	DRAWING ORIGINAL	DATE SEP. 2020	TITLE SHEET	STATE TEXAS	FEDERAL PROJECT NO.	SHEET NO. 171
CK DN: GY				STATE DIST. NO. PHARR	COUNTY HIDALGO	CONTROL NO. 6353
DW: LSJ					SECTION NO. 00	JOB NO. 001
CK DW: GY						HIGHWAY NO. IH-2, ETC.



3.0" Radius, 0.5" Border, 0.8" Indent, Black on, Yellow;
 "FREE EXIT", E Mod;
 Table of widths and spaces

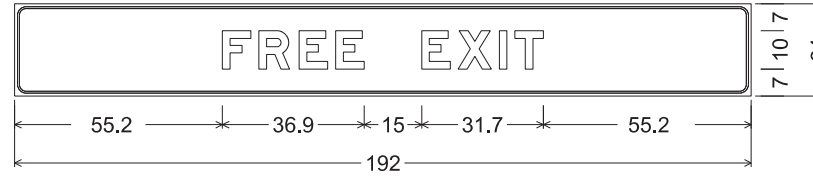
63.2	F	7.4	2.1	R	7.9	2.6	E	7.4	2.1	E	7.4	15.0	E	7.4	2.1	X	8.7	2.0	I	2.0	2.1	T	7.4	63.2
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FM 511 FM 803 Port of Brownsville exit arrow 45 right only;
 12.0" Radius, 2.0" Border, White on, Green;
 Interstate 169 M1-1; State Highway 550 M1-6T3; "TO", ClearviewHwy-5-W-R;
 State Highway 511 3; "Port of", ClearviewHwy-5-W-R;
 "Brownsville", ClearviewHwy-5-W-R;
 "MILE", ClearviewHwy-5-W-R;
 Table of widths and spaces

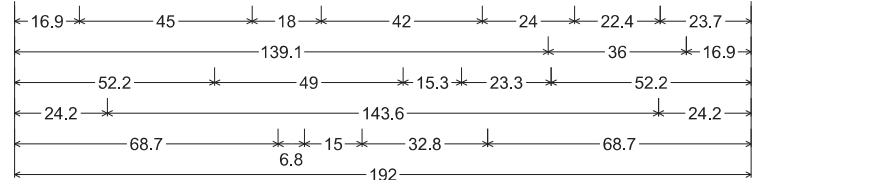
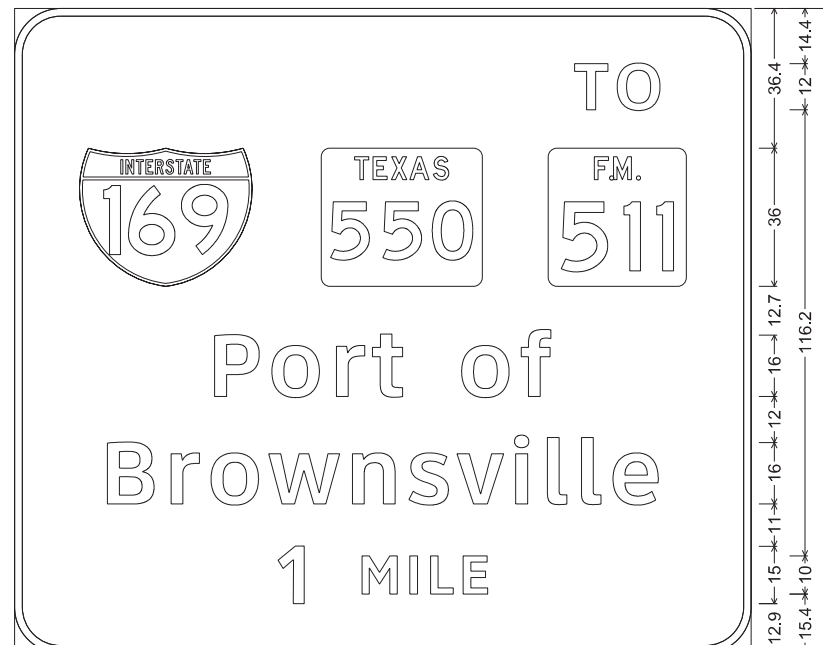
19.9	I	45.0	18.0	550	49.0	29.0	T	8.8	2.4	O	11.2	23.7																				
154.1	I	36.0	16.9																													
61.2	P	11.6	3.3	O	12.4	4.4	R	7.4	2.0	T	7.9	15.3	O	12.4	3.2	F	7.7	61.2														
33.2	B	12.2	4.4	R	7.4	3.0	O	12.4	2.6	W	18.6	3.3	N	11.1	3.6	S	10.3	2.2	V	12.2	2.8	I	3.8	4.8	5.1	3.8	L	5.1	3.1	E	11.8	24.2
40.4	E	8.9	2.4	X	10.3	2.5	I	2.1	2.5	8.8	12.0	20.3																				
				O	10.0	3.1	N	9.5	3.1	L	8.8	0.9	Y	12.0	40.4																	

SHEET NO. 15 OF 53 SIGN NO. 3



3.0" Radius, 0.5" Border, 0.8" Indent, Black on, Yellow;
 "FREE EXIT", E Mod;
 Table of widths and spaces

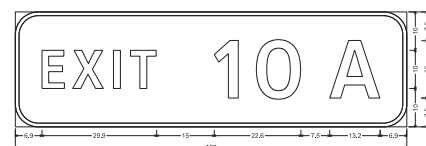
55.2	F	7.4	2.1	R	7.9	2.6	E	7.4	2.1	E	7.4	15.0	E	7.4	2.1	X	8.7	2.0	I	2.0	2.1	T	7.4	55.2
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12.0" Radius, 2.0" Border, White on, Green;
 Interstate 169 M1-1; State Highway 550 M1-6T3 15.0" D; "TO", ClearviewHwy-5-W-R;
 State Highway 511 3; "Port of", ClearviewHwy-5-W-R;
 "Brownsville", ClearviewHwy-5-W-R; "1", ClearviewHwy-5-W-R;
 "MILE", ClearviewHwy-5-W-R;
 Table of widths and spaces

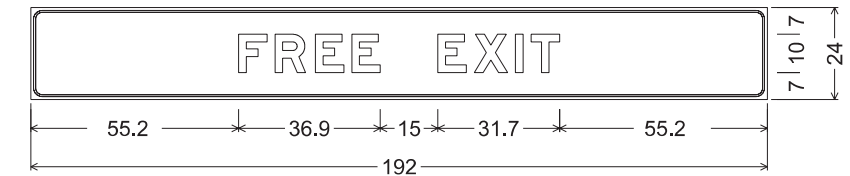
16.9	I	45.0	18.0	550	42.0	24.0	T	8.8	2.4	O	11.2	23.7																				
139.1	I	36.0	16.9																													
52.2	P	11.6	3.3	O	12.4	4.4	R	7.4	2.0	T	7.9	15.3	O	12.4	3.2	F	7.7	52.2														
24.2	B	12.2	4.4	R	7.4	3.0	O	12.4	2.6	W	18.6	3.3	N	11.1	3.6	S	10.3	2.2	V	12.2	2.8	I	3.8	4.8	5.1	3.8	L	5.1	3.1	E	11.8	24.2
68.7	I	6.8	15.0	M	9.2	3.3	I	2.1	3.4	5.8	2.6	6.4	68.7																			

SHEET NO. 18 OF 53 SIGN NO. 1



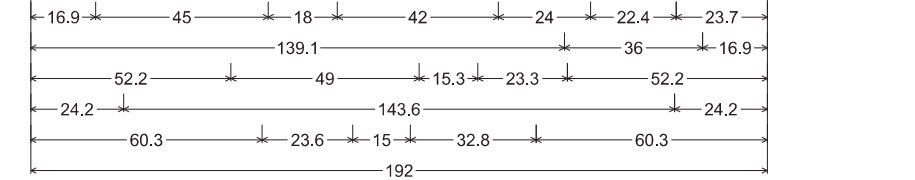
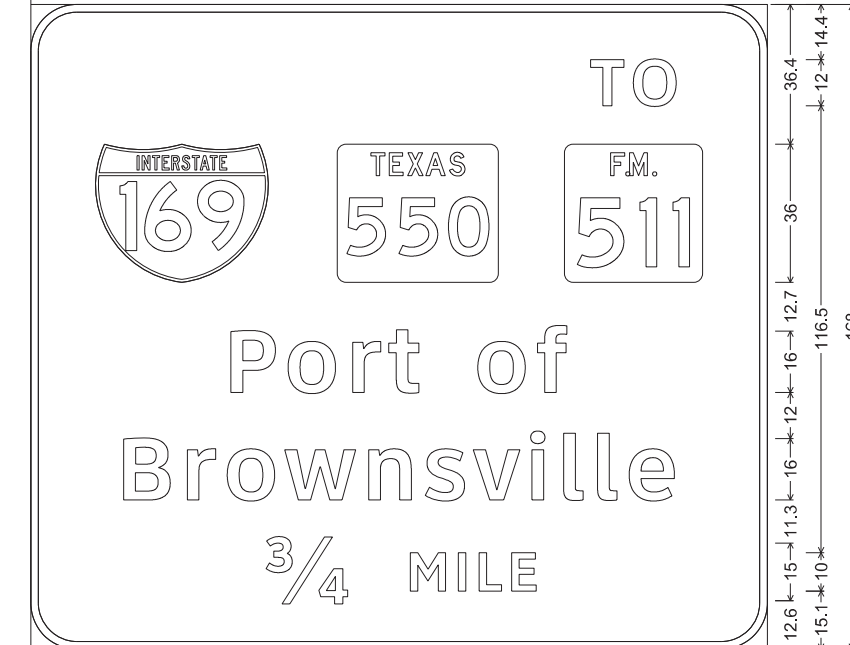
3.0" Radius, 0.5" Border, White on, Green;
 "EXIT", ClearviewHwy-5-W-R; "10", ClearviewHwy-5-W-R; "A", ClearviewHwy-5-W-R;
 Table of letter and sign info

SHEET NO. 14 OF 53 SIGN NO. 2
 SHEET NO. 15 OF 53 SIGN NO. 3
 SHEET NO. 17 OF 53 SIGN NO. 2
 SHEET NO. 18 OF 53 SIGN NO. 1



3.0" Radius, 0.5" Border, 0.8" Indent, Black on, Yellow;
 "FREE EXIT", E Mod;
 Table of widths and spaces

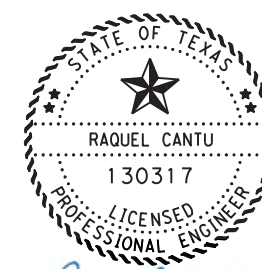
55.2	F	7.4	2.1	R	7.9	2.6	E	7.4	2.1	E	7.4	15.0	E	7.4	2.1	X	8.7	2.0	I	2.0	2.1	T	7.4	55.2
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12.0" Radius, 2.0" Border, White on, Green;
 Interstate 169 M1-1; State Highway 550 M1-6T3 15.0" D; "TO", ClearviewHwy-5-W-R;
 State Highway 511 3; "Port of", ClearviewHwy-5-W-R;
 "Brownsville", ClearviewHwy-5-W-R; "3/4", ClearviewHwy-5-W-R;
 "MILE", ClearviewHwy-5-W-R;
 Table of widths and spaces

16.9	I	45.0	18.0	550	42.0	24.0	T	8.8	2.4	O	11.2	23.7																				
139.1	I	36.0	16.9																													
52.2	P	11.6	3.3	O	12.4	4.4	R	7.4	2.0	T	7.9	15.3	O	12.4	3.2	F	7.7	52.2														
24.2	B	12.2	4.4	R	7.4	3.0	O	12.4	2.6	W	18.6	3.3	N	11.1	3.6	S	10.3	2.2	V	12.2	2.8	I	3.8	4.8	5.1	3.8	L	5.1	3.1	E	11.8	24.2
60.3	I	6.8	15.0	M	9.2	3.3	I	2.1	3.3	5.9	2.6	6.4	60.3																			

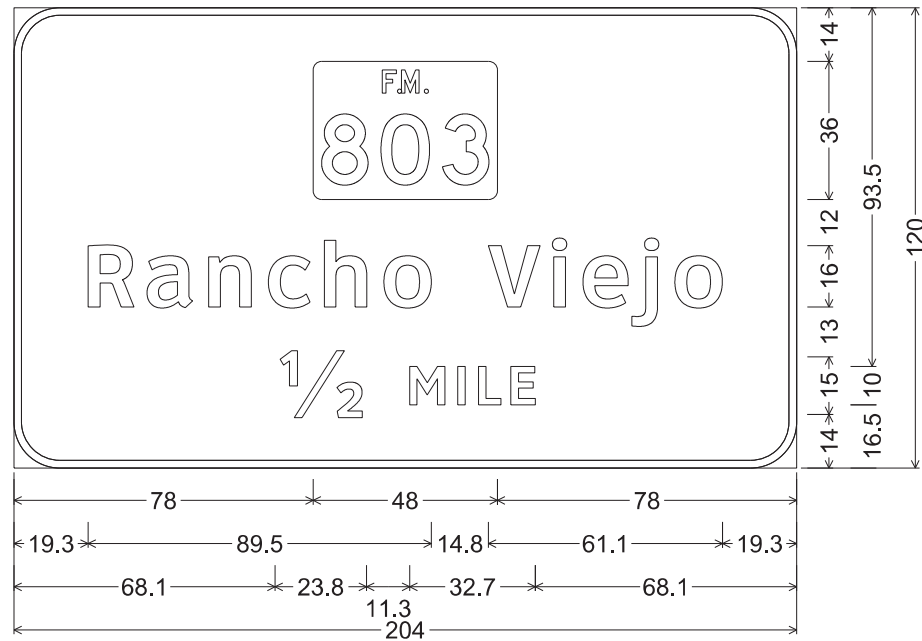
SHEET NO. 17 OF 53 SIGN NO. 2



Raquel Cantu 11.06.2020

TEXAS DEPARTMENT OF TRANSPORTATION
IH-69E
LARGE SIGN DETAIL SHEETS
 © 2020 SHEET 9 OF 23

DN: LSJ	DRAWING	DATE	TITLE	STATE	FEDERAL PROJECT NO.	SHEET
CK DN: GY	ORIGINAL	SEP. 2020		TEXAS		173
DW: LSJ			STATE	COUNTY	CONTROL	SECTION
CK DW: GY			PHARR	HIDALGO,	6353	00
				ETC.		001
						1H-2,
						ETC.



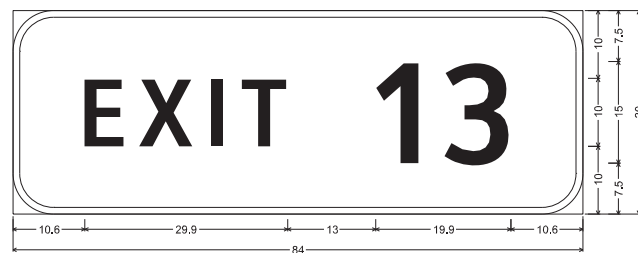
Rancho Viejo exit 1/2 mile;
 12.0" Radius, 2.0" Border, White on, Green;
 State Highway 803 3; "Rancho Viejo", ClearviewHwy-5-W-R;
 "1/2 MILE", ClearviewHwy-5-W-R;
 Table of letter and object lefts

803
78.0

R	a	n	c	h	o	v	i	e	j	o
19.3	34.7	50.8	66.3	80.9	96.4	123.6	140.4	148.3	161.1	172.3

1/2	M	I	L	E
68.1	103.2	115.6	121.1	129.5

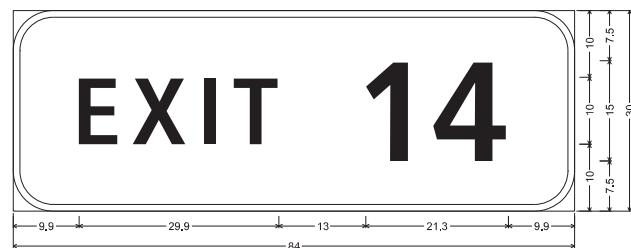
SHEET NO. 19 OF 53 SIGN NO. 1



6.0" Radius, 1.0" Border, White on, Green;
 "EXIT", ClearviewHwy-4-W; "13", ClearviewHwy-4-W;
 Table of letter and object lefts

E	X	I	T	1	3
10.6	18.6	29.2	33.7	53.5	63.7

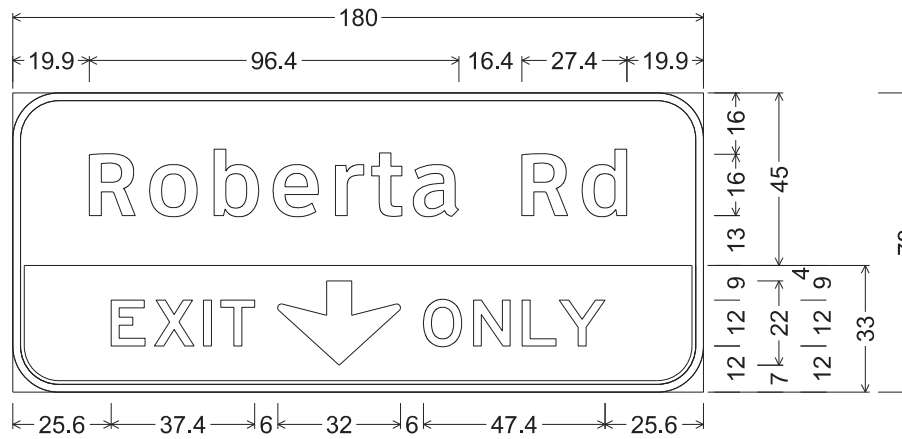
SHEET NO. 20 OF 53 SIGN NO. 1
 SHEET NO. 22 OF 53 SIGN NO. 1
 SHEET NO. 23 OF 53 SIGN NO. 2



6.0" Radius, 1.0" Border, White on, Green;
 "EXIT", ClearviewHwy-4-W; "14", ClearviewHwy-4-W;
 Table of letter and object lefts

E	X	I	T	1	4
9.9	17.9	28.5	33.0	52.8	62.9

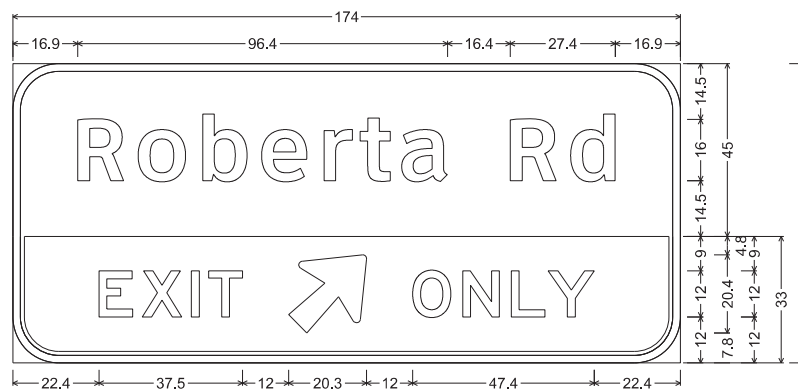
SHEET NO. 21 OF 53 SIGN NO. 1
 SHEET NO. 23 OF 53 SIGN NO. 1



12.0" Radius, 2.0" Border, White on, Green;
 "Roberta Rd", ClearviewHwy-5-W-R;
 E11-1;
 1.0" Inner border Green, 12.0" Radius, 2.0" Outer border, White on, Yellow;
 "EXIT" Black, E; Down Arrow 22 - 22.0" 270' Black;
 "ONLY" Black, E;
 Table of letter and object lefts

R	o	b	e	r	t	a	R	d
19.9	35.7	52.5	67.9	84.1	93.5	104.4	132.7	148.4
E	X	I	T	↓	O	N	L	Y
25.6	36.9	49.7	54.2	69.0	107.0	120.1	132.7	142.4

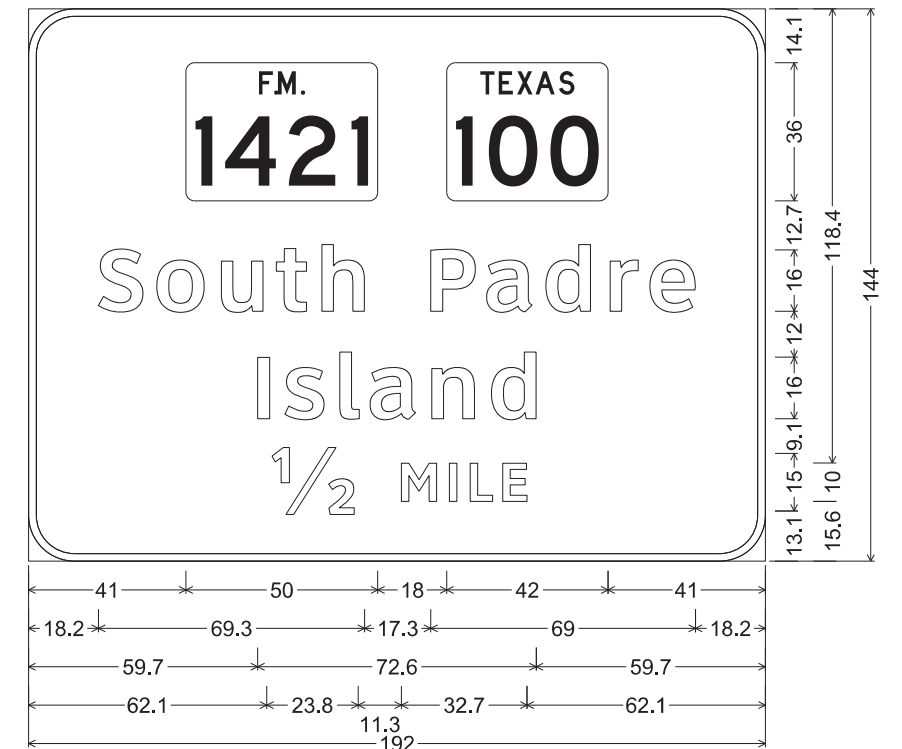
SHEET NO. 20 OF 53 SIGN NO. 1



E11-1aR;
 12.0" Radius, 2.0" Border, White on, Green;
 "Roberta Rd", ClearviewHwy-5-W-R;
 E11-1e;
 1.0" Inner border Green, 12.0" Radius, 2.0" Outer border, White on, Yellow;
 "EXIT" Black, E; Arrow B-3 - 25.0" 45' Black; "ONLY" Black, E;
 Table of letter and object lefts

R	o	b	e	r	t	a	R	d
16.9	32.7	49.5	64.9	81.1	90.5	101.4	129.7	145.4
E	X	I	T	↗	O	N	L	Y
22.4	33.7	46.5	51.1	71.9	104.2	117.3	129.9	139.6

SHEET NO. 22 OF 53 SIGN NO. 1



12.0" Radius, 2.0" Border, White on, Green;
 State Highway 1421 4; State Highway 100 M1-6T3;
 "South Padre", ClearviewHwy-5-W-R; "Island", ClearviewHwy-5-W-R;
 "1/2 MILE", ClearviewHwy-5-W-R;
 Table of letter and object lefts

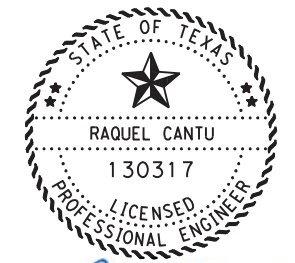
1421	100
41.0	109.0

S	o	u	t	h	P	a	d	r	e
18.2	33.4	50.2	64.6	76.4	104.8	119.4	134.8	151.5	161.9

I	s	l	a	n	d
59.7	66.8	81.1	89.0	105.1	120.6

1/2	M	I	L	E
62.1	97.2	109.6	115.1	123.5

SHEET NO. 21 OF 53 SIGN NO. 1

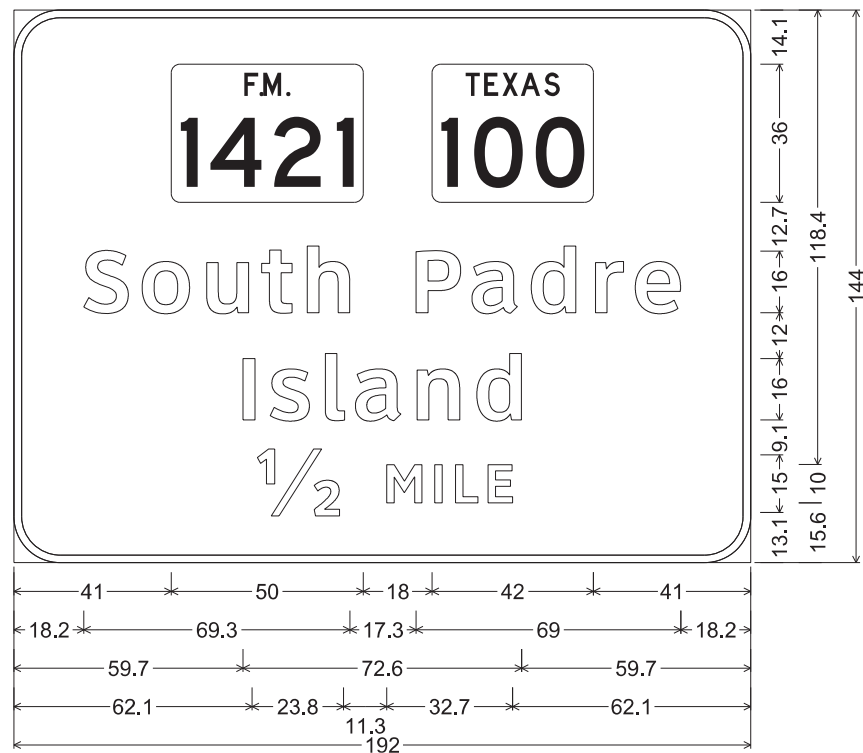


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TEXAS DEPARTMENT OF TRANSPORTATION
 IH-69E
 LARGE SIGN DETAIL SHEETS

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DN: LSJ	DRAWING	DATE	FILE NO.	STATE	FEDERAL PROJECT NO.	SHEET
CK DN: GY	ORIGINAL	SEP. 2020		TEXAS		174
DW: LSJ				STATE DIST. NO.	COUNTY	CONTROL NO.
CK DW: GY				PHARR	HIDALGO,	6353
						00
						001
						ETC.
						ETC.

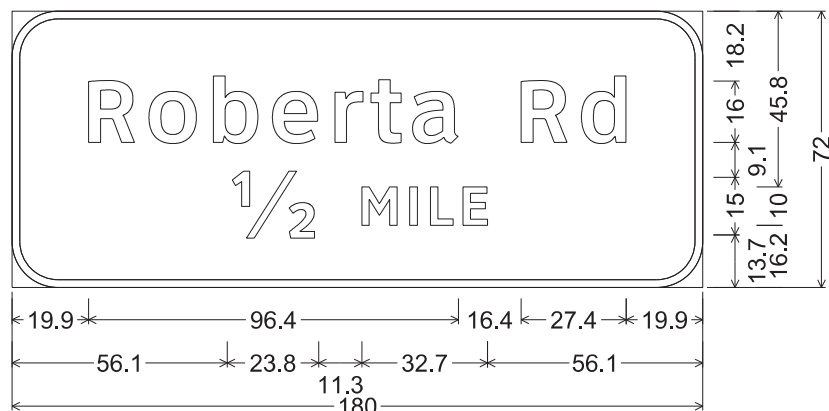


12.0" Radius, 2.0" Border, White on, Green;
 State Highway 1421 4; State Highway 100 M1-6T3;
 "South Padre", ClearviewHwy-5-W-R; "Island", ClearviewHwy-5-W-R;
 "1/2 MILE", ClearviewHwy-5-W-R;

Table of letter and object lefts

1421	100										
41.0	109.0										
S	o	u	t	h	P	a	d	r	e		
18.2	33.4	50.2	64.6	76.4	104.8	119.4	134.8	151.5	161.9		
I	s	l	a	n	d						
59.7	66.8	81.1	89.0	105.1	120.6						
1/2	M	I	L	E							
62.1	97.2	109.6	115.1	123.5							

SHEET NO. 21 OF 53 SIGN NO. 1

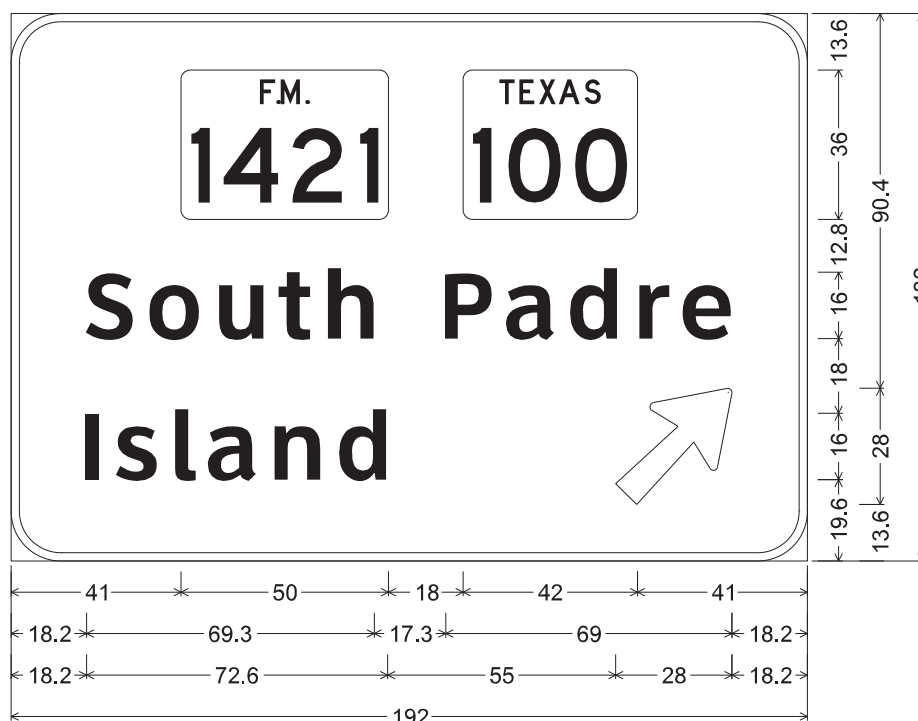


12.0" Radius, 2.0" Border, White on, Green;
 "Roberta Rd", ClearviewHwy-5-W-R;
 "1/2 MILE", ClearviewHwy-5-W-R;

Table of letter and object lefts

R	o	b	e	r	t	a	R	d			
19.9	35.7	52.5	67.9	84.1	93.5	104.4	132.7	148.4			
1/2	M	I	L	E							
56.1	91.2	103.6	109.1	117.5							

SHEET NO. 23 OF 53 SIGN NO. 2

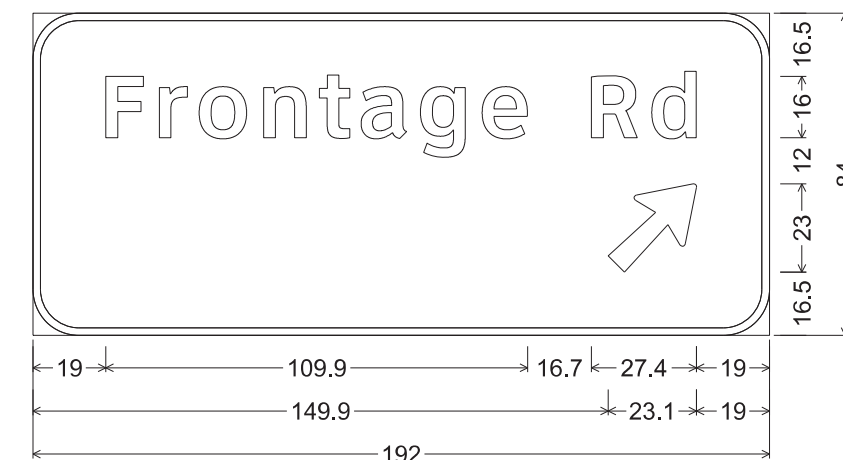


12.0" Radius, 2.0" Border, White on, Green;
 State Highway 1421 4; State Highway 100 M1-6T3;
 "South Padre", ClearviewHwy-5-W-R; "Island", ClearviewHwy-5-W-R;
 Arrow A-3 - 35.6" 45';

Table of letter and object lefts

1421	100										
41.0	109.0										
S	o	u	t	h	P	a	d	r	e		
18.2	33.4	50.2	64.6	76.4	104.8	119.4	134.8	151.5	161.9		
I	s	l	a	n	d	↗					
18.2	25.3	39.6	47.5	63.6	79.1	145.8					

SHEET NO. 23 OF 53 SIGN NO. 1

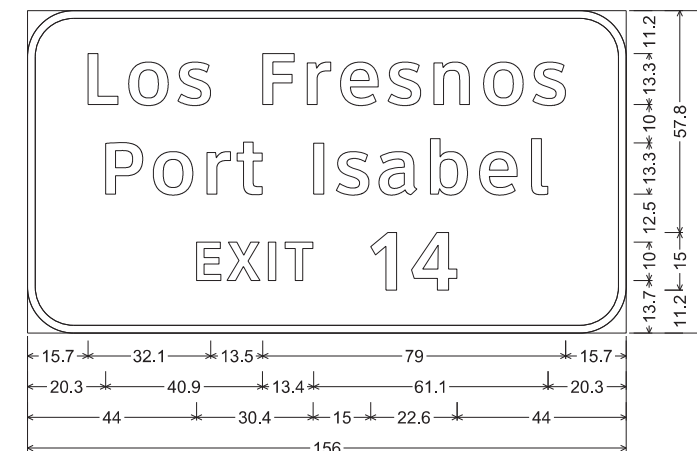


12.0" Radius, 2.0" Border, White on, Green;
 "Frontage Rd", ClearviewHwy-5-W-R; Arrow A-2 - 29.3" 45';

Table of letter and object lefts

F	r	o	n	t	a	g	e	R	d		
19.0	32.9	43.3	60.2	74.7	85.6	101.0	117.1	145.6	161.3		
↗											
149.9											

SHEET NO. 24 OF 53 SIGN NO. 2

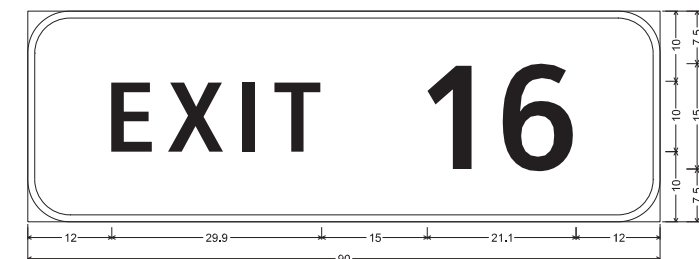


12.0" Radius, 2.0" Border, White on, Green;
 "Los Fresnos", ClearviewHwy-5-W-R;
 "Port Isabel", ClearviewHwy-5-W-R; "EXIT", ClearviewHwy-5-W-R;
 "14", ClearviewHwy-5-W-R;

Table of widths and spaces

15.7	L	7.9	2.8	o	10.3	2.5	8.6												
13.5	F	8.2	3.4	r	6.2	2.5	9.8	2.5	s	8.6	3.4	9.3	3.7	o	10.3	2.5	s	8.6	15.7
20.3	P	9.8	2.7	o	10.3	3.7	6.2	1.6	6.6										
13.4	I	2.7	3.1	s	8.6	2.6	9.9	3.5	b	9.7	3.1	9.9	3.7	l	4.3	20.3			
44.0	E	6.4	1.5	X	8.7	2.1	2.1	2.3	T	7.3	15.0	1	6.9	3.8	11.9	44.0			

SHEET NO. 24 OF 53 SIGN NO. 1

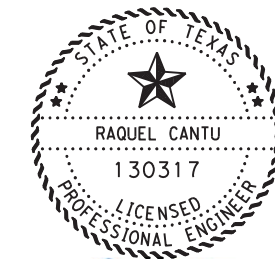


6.0" Radius, 1.0" Border, White on, Green;
 "EXIT", ClearviewHwy-4-W; "16", ClearviewHwy-4-W;

Table of letter and object lefts

E	X	I	T	1	6					
12.0	20.0	30.6	35.1	56.9	67.8					

SHEET NO. 24 OF 53 SIGN NO. 2



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TEXAS DEPARTMENT OF TRANSPORTATION
IH-69E
LARGE SIGN DETAIL SHEETS

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DN: LSJ	DRAWING ORIGINAL	DATE SEP. 2020	FED. DIST. NO.	STATE TEXAS	FEDERAL PROJECT NO.	SHEET 175
CK DN: GY	DW: LSJ	CK DW: GY	STATE DIST. NO. PHARR	COUNTY HIDALGO,	CONTROL NO. 6353	SECTION NO. 00
				JOB NO. 001	HIGHWAY NO. IH-2,	ETC.



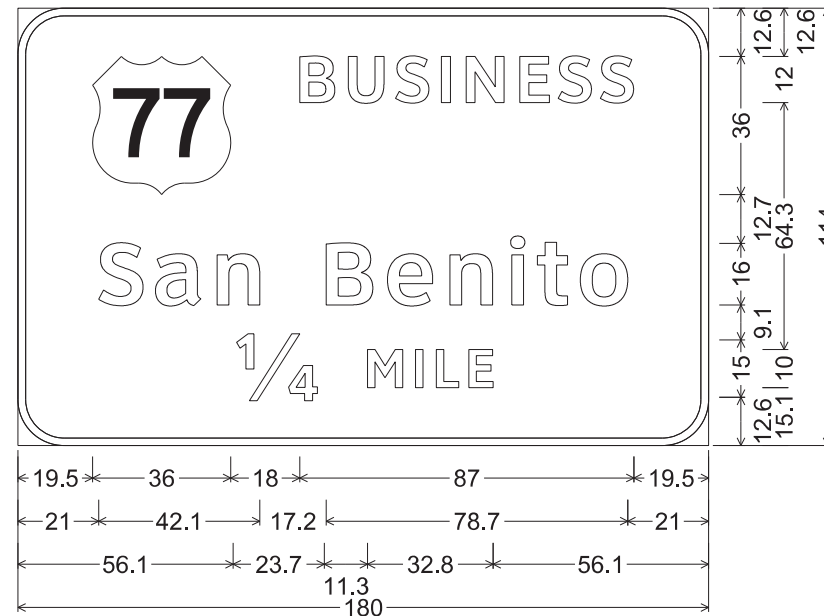
E11-1_VARxVAR;

6.0" Radius, 2.0" Border, White on, Green;
US 77 M1-4; "B", ClearviewHwy-5-W-R; "BUSINESS", E Mod;
"San Benito", ClearviewHwy-5-W-R;

1.0" Inner border Green, 12.0" Radius, 2.0" Outer border, White on, Yellow;
"EXIT" Black, E; Down Arrow 22 - 22.0" 270' Black; "ONLY" Black, E;

77	B	U	S	I	N	E	S	S
17.1	71.1	86.5	99.2	111.8	117.3	129.9	141.3	153.4
S	a	n	B	e	n	i	t	o
21.0	35.9	51.9	80.3	96.3	112.6	128.4	135.4	146.6
E	X	I	T	↓	O	N	L	Y
25.6	36.9	49.7	54.2	69.0	107.0	120.1	132.7	142.4

SHEET NO. 25 OF 53 SIGN NO. 1

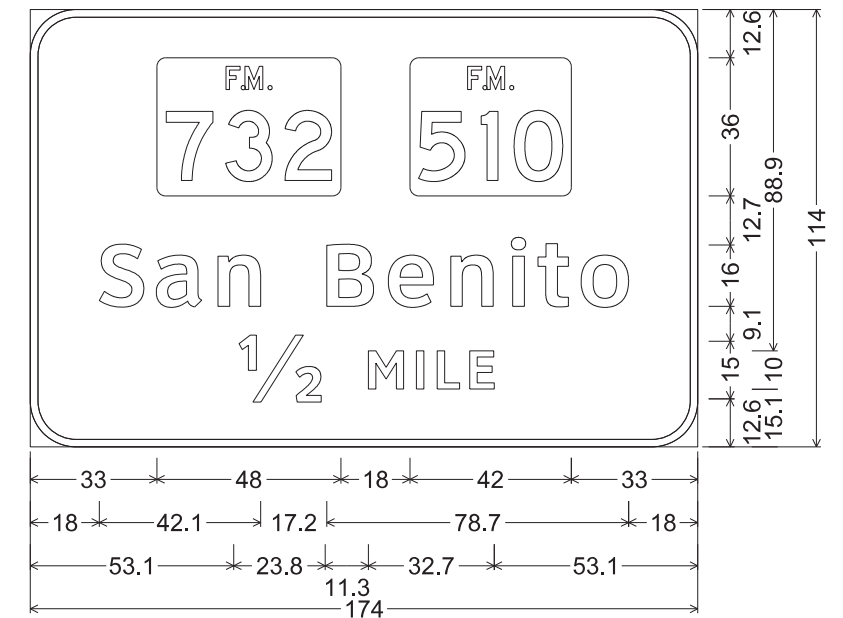


12.0" Radius, 2.0" Border, White on, Green;
US 77 M1-4; "BUSINESS", ClearviewHwy-5-W-R;
"San Benito", ClearviewHwy-5-W-R;
"1/4 MILE", ClearviewHwy-5-W-R;

Table of letter and object lefts

77	B	U	S	I	N	E	S	S
19.5	73.5	86.1	98.4	110.4	116.9	130.8	140.8	151.8
S	a	n	B	e	n	i	t	o
21.0	35.9	51.9	80.3	96.3	112.6	128.4	135.4	146.6
1/4	M	I	L	E				
56.1	91.1	103.6	109.0	117.5				

SHEET NO. 25 OF 53 SIGN NO. 2

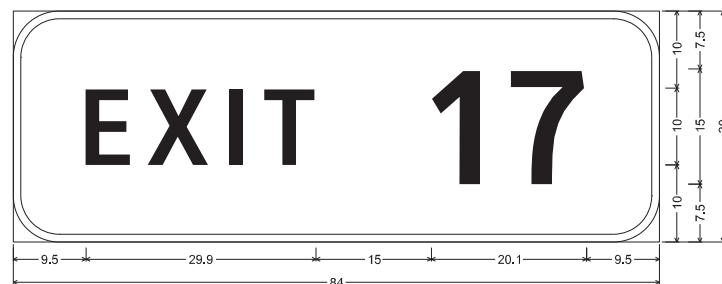


12.0" Radius, 2.0" Border, White on, Green;
State Highway 732 3; State Highway 510 3;
"San Benito", ClearviewHwy-5-W-R;
"1/2 MILE", ClearviewHwy-5-W-R;

Table of letter and object lefts

732	510							
33.0	99.0							
S	a	n	B	e	n	i	t	o
18.0	32.9	48.9	77.3	93.3	109.6	125.4	132.4	143.6
1/2	M	I	L	E				
53.1	88.2	100.6	106.1	114.5				

SHEET NO. 26 OF 53 SIGN NO. 1

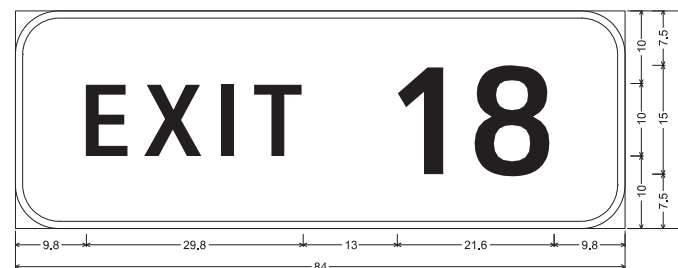


6.0" Radius, 1.0" Border, White on, Green;
"EXIT", ClearviewHwy-4-W; "17", ClearviewHwy-4-W;

Table of letter and object lefts

E	X	I	T	1	7
9.5	17.5	28.1	32.6	54.4	64.6

SHEET NO. 25 OF 53 SIGN NO. 1
SHEET NO. 25 OF 53 SIGN NO. 2
SHEET NO. 26 OF 53 SIGN NO. 2

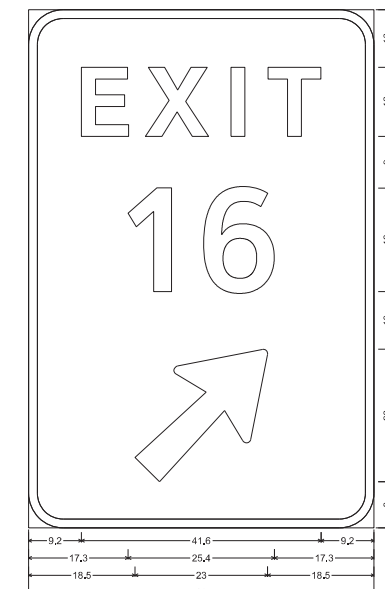


6.0" Radius, 1.0" Border, White on, Green;
"EXIT", ClearviewHwy-4-W; "18", ClearviewHwy-4-W;

Table of letter and object lefts

E	X	I	T	1	8
9.8	17.8	28.4	32.9	52.6	63.7

SHEET NO. 26 OF 53 SIGN NO. 1

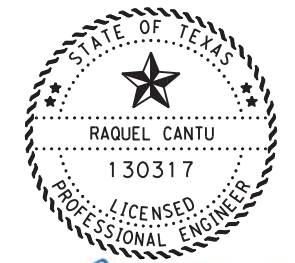


6.0" Radius, 1.5" Border, White on, Green;
"EXIT", ClearviewHwy-6-W; "16", ClearviewHwy-4-W;
Arrow A-2 - 29.2" 45°;

Table of letter and object lefts

E	X	I	T
9.2	20.3	35.2	41.6
1	6		
17.3	30.4		
18.5			

SHEET NO. 26 OF 53 SIGN NO. 3



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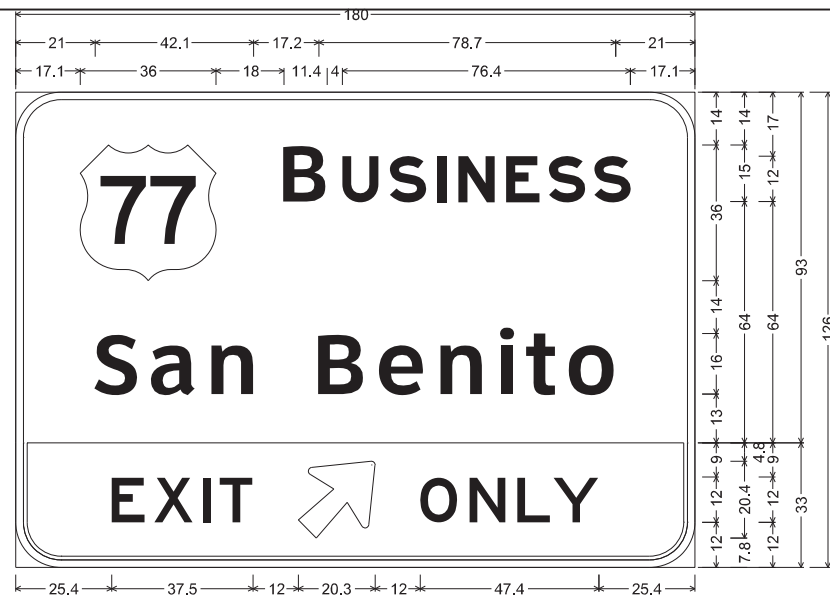
TEXAS DEPARTMENT OF TRANSPORTATION

IH-69E

LARGE SIGN DETAIL SHEETS

© 2020 SHEET 12 OF 23

DN: LSJ	DRAWING ORIGINAL	DATE SEP. 2020	TITLE SHEET	STATE TEXAS	FEDERAL PROJECT NO.	SHEET 176
CK DN: GV	DW: LSJ	CK DW: GV	STATE DIST. NO. PHARR	COUNTY HIDALGO,	CONTROL NO. 6353	SECTION NO. 00
					JOB NO. 001	HIGHWAY NO. IH-2,
					ETC.	



E11-1aR;

12.0" Radius, 2.0" Border, White on, Green;
 US 77 M1-4; "B", ClearviewHwy-5-W-R; "USINESS", E Mod;
 "San Benito", ClearviewHwy-5-W-R;

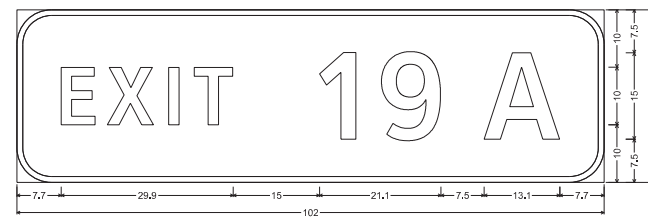
E11-1e;

1.0" Inner border Green, 12.0" Radius, 2.0" Outer border, White on, Yellow;
 "EXIT" Black, E; Arrow B-3 - 25.0" 45' Black; "ONLY" Black, E;

Table of letter and object lefts

Ⓡ	B	U	S	I	N	E	S	S
17.1	71.1	86.5	99.2	111.8	117.3	129.9	141.3	153.4
S	a	n	B	e	n	i	t	o
21.0	35.9	51.9	80.3	96.3	112.6	128.4	135.4	146.6
E	X	I	T	↗	O	N	L	Y
25.4	36.7	49.5	54.1	74.9	107.2	120.3	132.9	142.6

SHEET NO. 26 OF 53 SIGN NO. 2

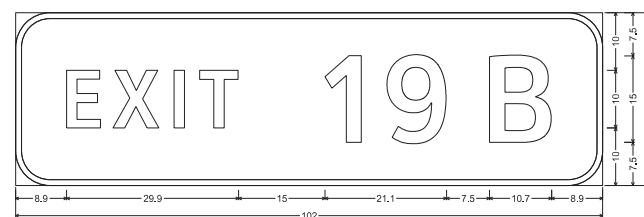


6.0" Radius, 1.0" Border, White on, Green;
 "EXIT", ClearviewHwy-4-W; "19", ClearviewHwy-4-W; "A", ClearviewHwy-4-W;

Table of letter and object lefts

E	X	I	T	1	9	A
7.7	15.7	26.3	30.8	52.6	63.3	81.2

SHEET NO. 27 OF 53 SIGN NO. 1

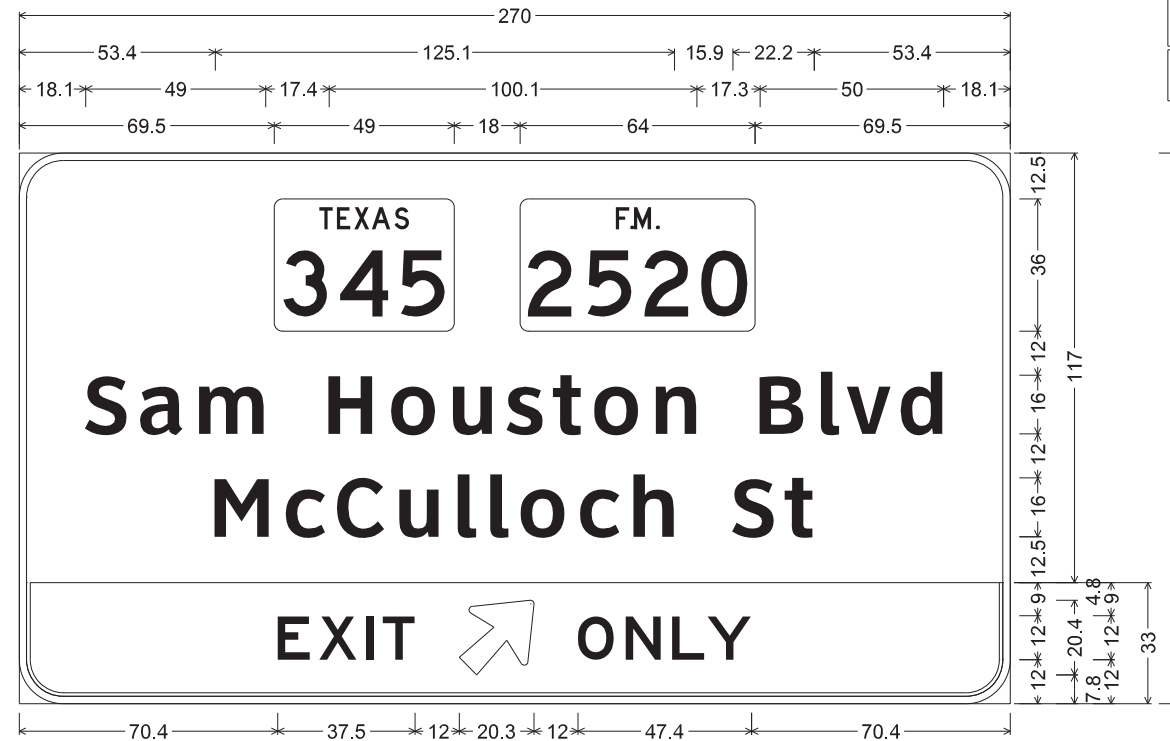


6.0" Radius, 1.0" Border, White on, Green;
 "EXIT", ClearviewHwy-4-W; "19", ClearviewHwy-4-W; "B", ClearviewHwy-4-W;

Table of letter and object lefts

E	X	I	T	1	9	B
8.9	16.9	27.5	32.0	53.8	64.5	82.4

SHEET NO. 28 OF 53 SIGN NO. 1
 SHEET NO. 29 OF 53 SIGN NO. 1



E11-1aR;

12.0" Radius, 2.0" Border, White on, Green;
 State Highway 345 M1-6T3; State Highway 2520 4; "Sam Houston Blvd", ClearviewHwy-5-W-R;
 "McCulloch St", ClearviewHwy-5-W-R;

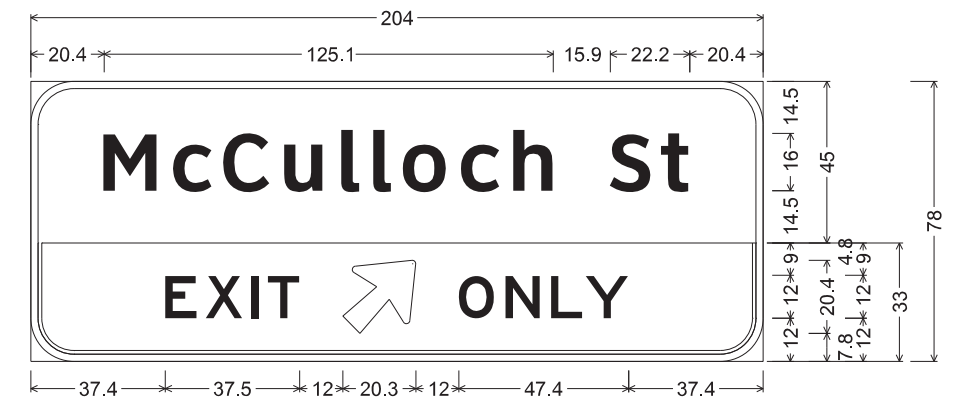
E11-1e;

1.0" Inner border Green, 12.0" Radius, 2.0" Outer border, White on, Yellow;
 "EXIT" Black, E; Arrow B-3 - 25.0" 45' Black; "ONLY" Black, E;

Table of letter and object lefts

345	2520												
69.5	136.5												
S	a	m	H	o	u	s	t	o	n	B	l	v	d
18.1	32.9	49.0	84.5	101.4	118.2	132.7	145.5	156.7	173.5	201.9	218.5	225.5	240.2
M	c	C	u	l	l	o	c	h	S	t			
53.4	72.7	86.8	103.6	119.6	128.4	136.7	152.9	167.4	194.4	208.6			
E	X	I	T	↗	O	N	L	Y					
70.4	81.7	94.5	99.1	119.9	152.2	165.3	177.9	187.6					

SHEET NO. 28 OF 53 SIGN NO. 1



E11-1aR;

12.0" Radius, 2.0" Border, White on, Green;
 "McCulloch St", ClearviewHwy-5-W-R;

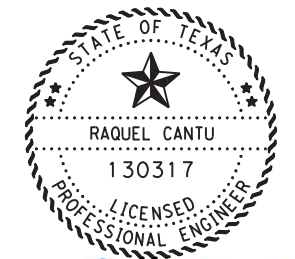
E11-1e;

1.0" Inner border Green, 12.0" Radius, 2.0" Outer border, White on, Yellow;
 "EXIT" Black, E; Arrow B-3 - 25.0" 45' Black; "ONLY" Black, E;

Table of letter and object lefts

M	c	C	u	l	l	o	c	h	S	t
20.4	39.7	53.8	70.6	86.6	95.4	103.7	119.9	134.4	161.4	175.6
E	X	I	T	↗	O	N	L	Y		
37.4	48.7	61.5	66.1	86.9	119.2	132.3	144.9	154.6		

SHEET NO. 27 OF 53 SIGN NO. 1



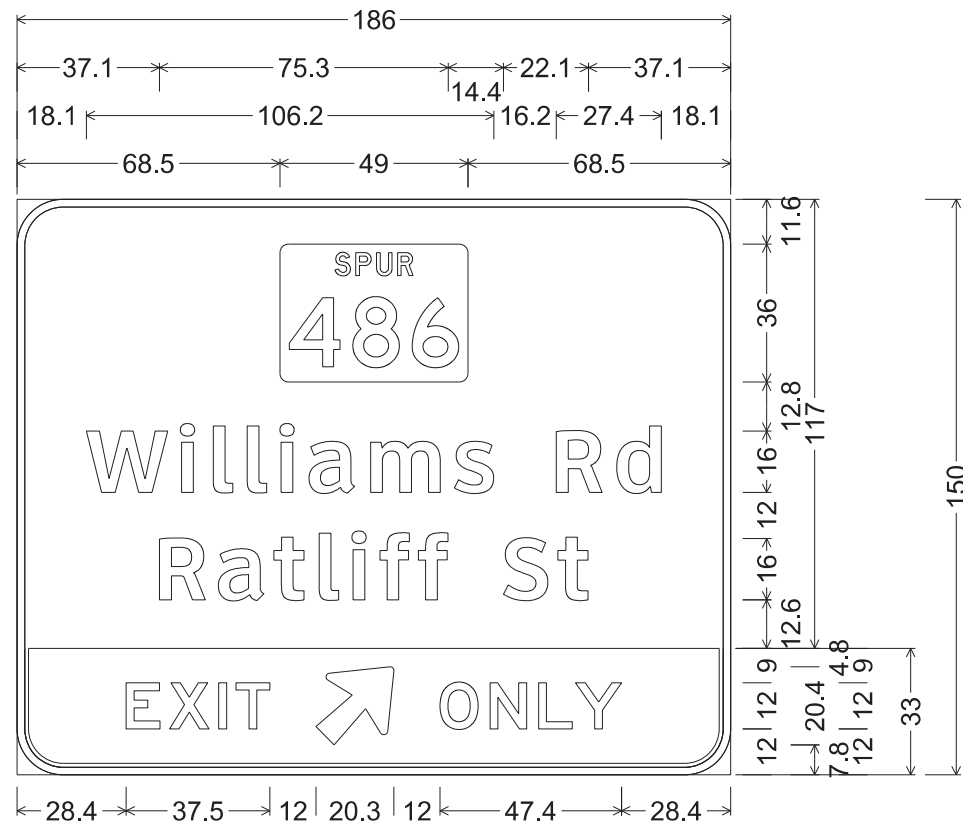
Raquel Cantu 11.06.20

TEXAS DEPARTMENT OF TRANSPORTATION
 IH-69E
 LARGE SIGN DETAIL SHEETS

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DN: LSJ	DRAWING	DATE	TITLE	STATE	FEDERAL PROJECT NO.	SHEET
CK DN: GY	ORIGINAL	SEP. 2020		TEXAS		177
DW: LSJ			STATE	COUNTY	CONTROL	SECTION
CK DW: GY			PHARR	HIDALGO,	6353	00
					001	001

ETC. ETC.



E11-1aR;

12.0" Radius, 2.0" Border, White on, Green;

State Highway 486 M1-6S3;

"Williams Rd", ClearviewHwy-5-W-R;

"Ratliff St", ClearviewHwy-5-W-R;

E11-1e;

1.0" Inner border Green, 12.0" Radius, 2.0" Outer border, White on, Yellow;

"EXIT" Black, E; Arrow B-3 - 25.0" 45' Black;

"ONLY" Black, E;

Table of letter and object lefts

486 68.5								
W	i	l	l	i	a	m	s	
18.1	42.6	51.1	60.0	68.5	76.1	92.2	114.0	
	R	d						
	140.5	156.3						
R	a	t	l	i	f	f	s	t
37.1	52.5	66.9	78.8	87.3	94.6	104.6	126.8	141.0
E	X	I	T	↗	O	N	L	Y
28.4	39.7	52.5	57.1	77.9	110.2	123.3	135.9	145.6

SHEET NO. 31 OF 53 SIGN NO. 1



12.0" Radius, 2.0" Border, White on, Green;

State Highway 345 M1-6T3; State Highway 2520 4; "Sam Houston Blvd", ClearviewHwy-5-W-R;

"McCulloch St", ClearviewHwy-5-W-R;

E11-1;

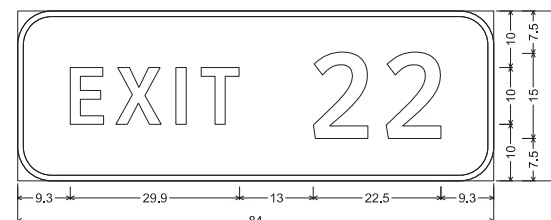
1.0" Inner border Green, 12.0" Radius, 2.0" Outer border, White on, Yellow;

"EXIT" Black, E; Down Arrow 22 - 22.0" 270' Black; "ONLY" Black, E;

Table of letter and object lefts

345 69.5		2520 136.5											
S	a	m	H	o	u	s	t	o	n	B	l	v	d
18.1	32.9	49.0	84.5	101.4	118.2	132.7	145.5	156.7	173.5	201.9	218.5	225.5	240.2
M	c	u	l	l	o	c	h	s	t				
53.4	72.7	86.8	103.6	119.6	128.4	136.7	152.9	167.4	194.4	208.6			
E	X	I	T	↓	O	N	L	Y					
70.6	81.9	94.7	99.2	114.0	152.0	165.1	177.7	187.4					

SHEET NO. 29 OF 53 SIGN NO. 1



6.0" Radius, 1.0" Border, White on, Green;

"EXIT", ClearviewHwy-4-W; "22", ClearviewHwy-4-W;

Table of letter and object lefts

E	X	I	T	2	2
9.3	17.3	27.9	32.4	52.2	65.1

SHEET NO. 30 OF 53 SIGN NO. 1

SHEET NO. 32 OF 53 SIGN NO. 1

SHEET NO. 32 OF 53 SIGN NO. 2

SHEET NO. 33 OF 53 SIGN NO. 1



12.0" Radius, 2.0" Border, White on, Green;

State Highway 509 3; "Paso Real", ClearviewHwy-5-W-R;

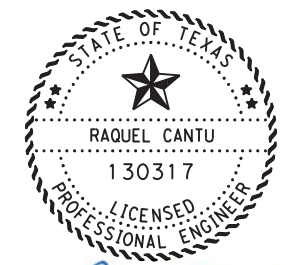
"Highway", ClearviewHwy-5-W-R;

"1/2 MILE", ClearviewHwy-5-W-R;

Table of letter and object lefts

509 57.0									
P	a	s	o	R	e	a	l		
18.9	33.5	48.1	61.8	90.9	106.6	121.9	137.9		
H	i	g	h	w	a	y			
29.1	46.3	54.2	71.0	85.3	106.2	120.4			
1/2	M	I	L	E					
48.1	81.1	93.6	99.0	107.5					

SHEET NO. 30 OF 53 SIGN NO. 1

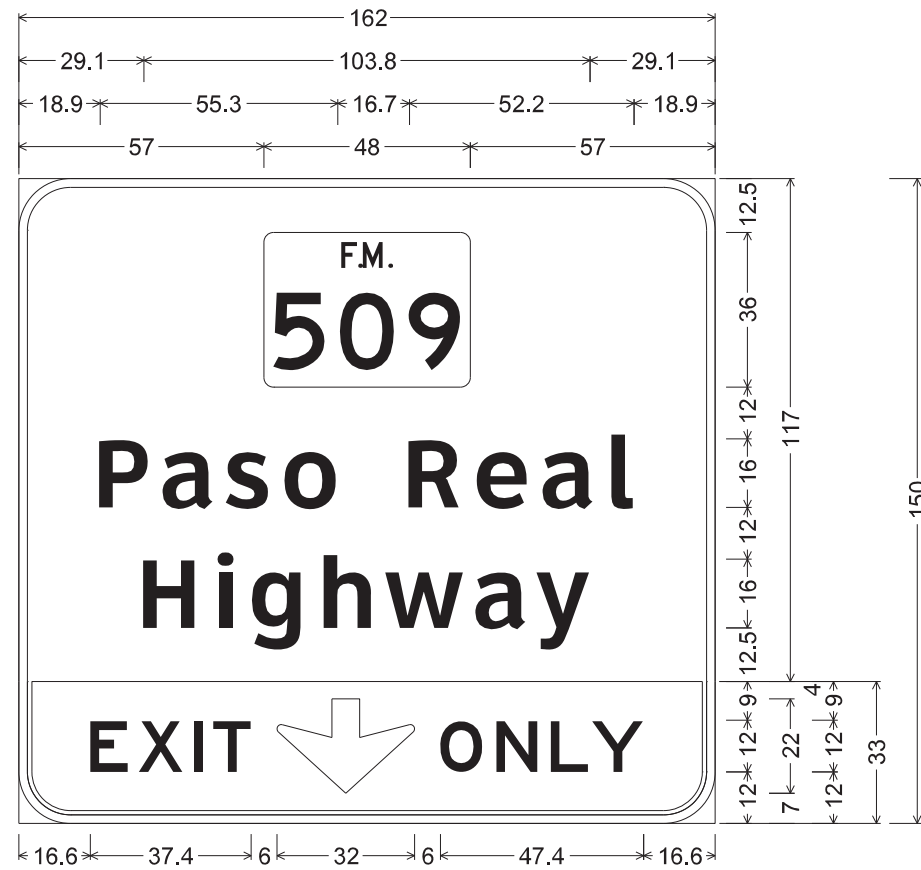


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IH-69E
LARGE SIGN DETAIL SHEETS

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DN: LSJ	DRAWING: ORIGINAL	DATE: SEP. 2020	FED. DIST. NO.	STATE: TEXAS	FEDERAL PROJECT NO.	SHEET NO.: 178
CK DN: GY			STATE DIST. NO.	COUNTY: PHARR	CONTROL NO.: 6353	SECTION NO.: 00
DW: LSJ					JOB NO.: 001	HIGHWAY NO.: IH-2,
CK DW: GY						ETC.



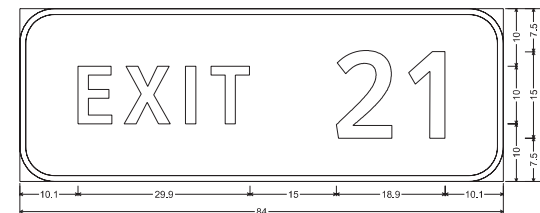
12.0" Radius, 2.0" Border, White on, Green;
 State Highway 509 3; "Paso Real", ClearviewHwy-5-W-R;
 "Highway", ClearviewHwy-5-W-R;

E11-1;
 1.0" Inner border Green, 12.0" Radius, 2.0" Outer border, White on, Yellow;
 "EXIT" Black, E; Down Arrow 22 - 22.0" 270' Black;
 "ONLY" Black, E;

Table of letter and object lefts

509 57.0								
P	a	s	o	R	e	a	l	
18.9	33.5	48.1	61.8	90.9	106.6	121.9	137.9	
H	i	g	h	w	a	y		
29.1	46.3	54.2	71.0	85.3	106.2	120.4		
E	X	I	T	↓	O	N	L	Y
16.6	27.9	40.7	45.2	60.0	98.0	111.1	123.7	133.4

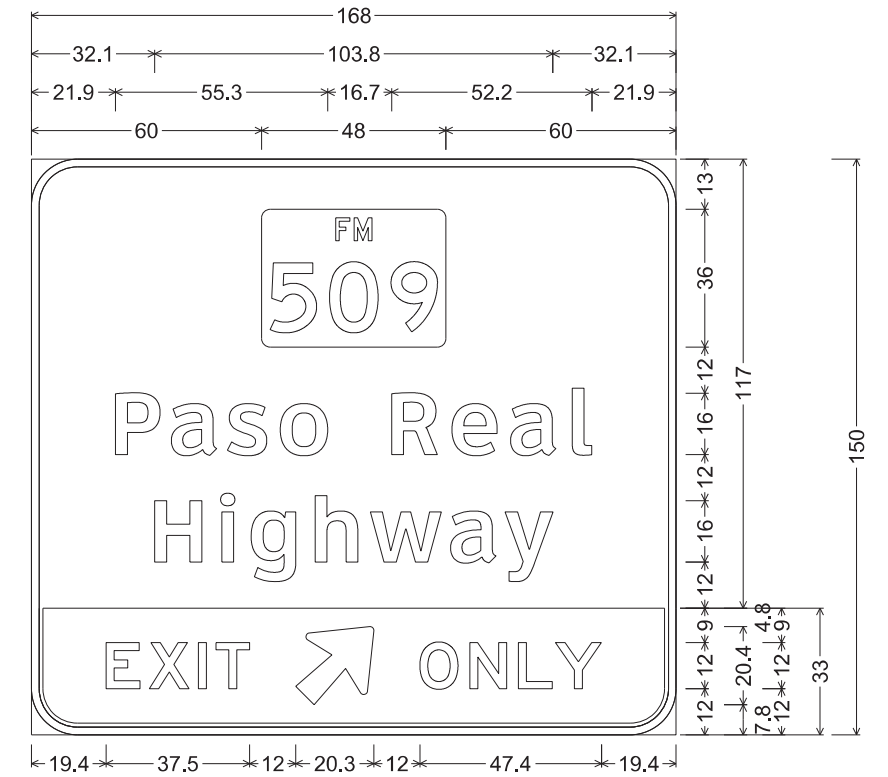
SHEET NO. 32 OF 53 SIGN NO. 1



6.0" Radius, 1.0" Border, White on, Green;
 "EXIT", ClearviewHwy-4-W; "21", ClearviewHwy-4-W;
 Table of letter and object lefts

E	X	I	T	2	1
10.1	18.1	26.8	33.2	55.0	67.5

SHEET NO. 31 OF 53 SIGN NO. 1



E11-1aR;

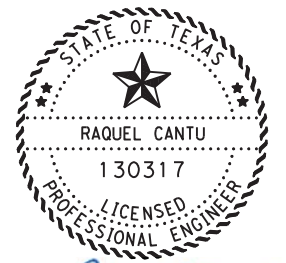
12.0" Radius, 2.0" Border, White on, Green;
 State Highway 509 M1-6F3;
 "Paso Real", ClearviewHwy-5-W-R;
 "Highway", ClearviewHwy-5-W-R;

E11-1e;
 1.0" Inner border Green, 12.0" Radius, 2.0" Outer border, White on, Yellow;
 "EXIT" Black, E; Arrow B-3 - 25.0" 45' Black;
 "ONLY" Black, E;

Table of letter and object lefts

509 60.0								
P	a	s	o	R	e	a	l	
21.9	36.5	51.1	64.8	93.9	109.6	124.9	140.9	
H	i	g	h	w	a	y		
32.1	49.3	57.2	74.0	88.3	109.2	123.4		
E	X	I	T	↗	O	N	L	Y
19.4	30.7	43.5	48.1	68.9	101.2	114.3	126.9	136.6

SHEET NO. 32 OF 53 SIGN NO. 2

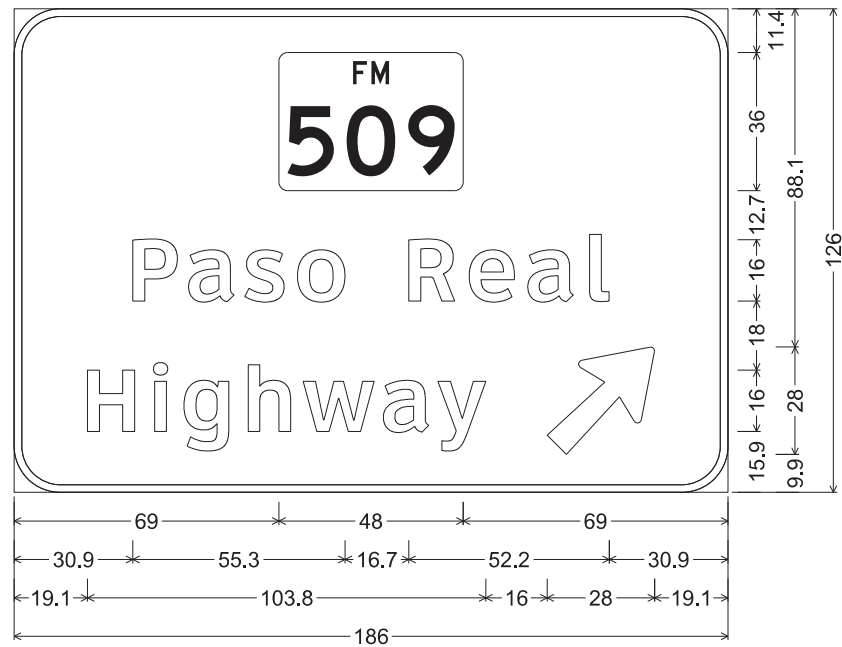


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TEXAS DEPARTMENT OF TRANSPORTATION
IH-69E
LARGE SIGN DETAIL SHEETS

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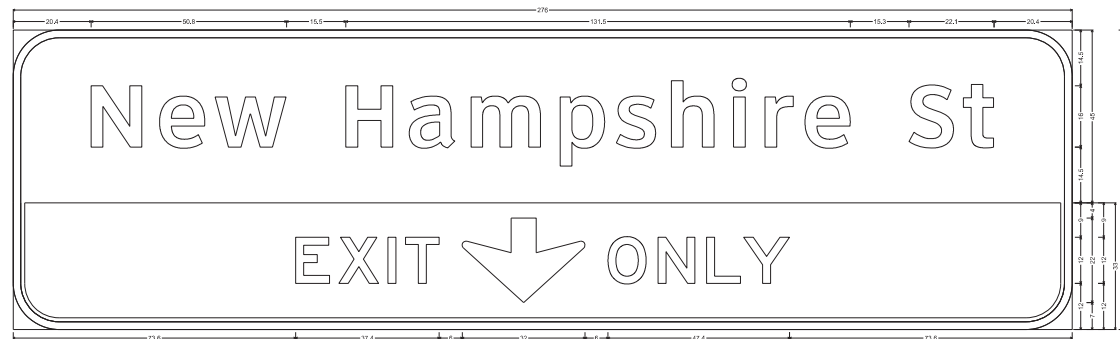
DN: LSJ	DRAWING	DATE	TITLE	STATE	FEDERAL PROJECT NO.	SHEET
CK DN: GV	ORIGINAL	SEP. 2020		TEXAS		179
DW: LSJ			STATE	COUNTY	CONTROL	SECTION
CK DW: GV			DIST. NO.	PHARR	NO.	NO.
				HIDALGO,	6353	00
				ETC.	001	001
						IH-2,
						ETC.



12.0" Radius, 2.0" Border, White on, Green;
 State Highway 509 M1-6F3; "Paso Real", ClearviewHwy-5-W-R;
 "Highway", ClearviewHwy-5-W-R; Arrow A-3 - 35.6" 45";
 Table of letter and object lefts

509	69.0						
P	a	s	o	R	e	a	l
30.9	45.5	60.1	73.8	102.9	118.6	133.9	149.9
H	i	g	h	w	a	y	↗
19.1	36.3	44.2	61.0	75.3	96.2	110.4	138.9

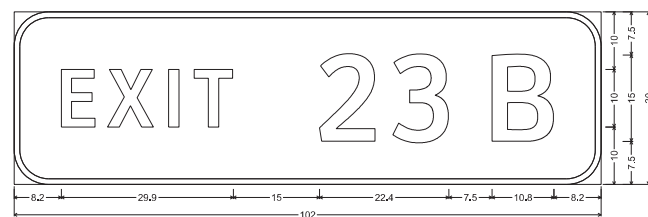
SHEET NO. 33 OF 53 SIGN NO. 1



12.0" Radius, 2.0" Border, White on, Green;
 "New Hampshire St", ClearviewHwy-5-W-R;
 "EXIT", ClearviewHwy-5-W-R; "ONLY", Black, E;
 Down Arrow 22 - 22.0" 270' Black;
 Table of letter and object lefts

W	E	S	T	E	A	S	T						
82.9	105.7	117.1	129.2	158.0	170.6	183.6	194.4						
801	499	156.1											
90.0	156.1												
E	d	C	a	r	e	y	D	r					
68.2	82.0	110.3	126.1	142.2	152.6	167.0	194.9	212.4					
N	e	w	H	a	m	p	s	h	i	r	e	S	t
26.4	44.2	58.6	92.7	109.2	125.3	148.6	163.2	177.6	193.4	202.0	212.4	239.5	253.7
E	X	I	T	↘	O	N	L	Y					
81.6	92.9	105.7	110.2	125.0	163.0	176.1	188.7	198.4					

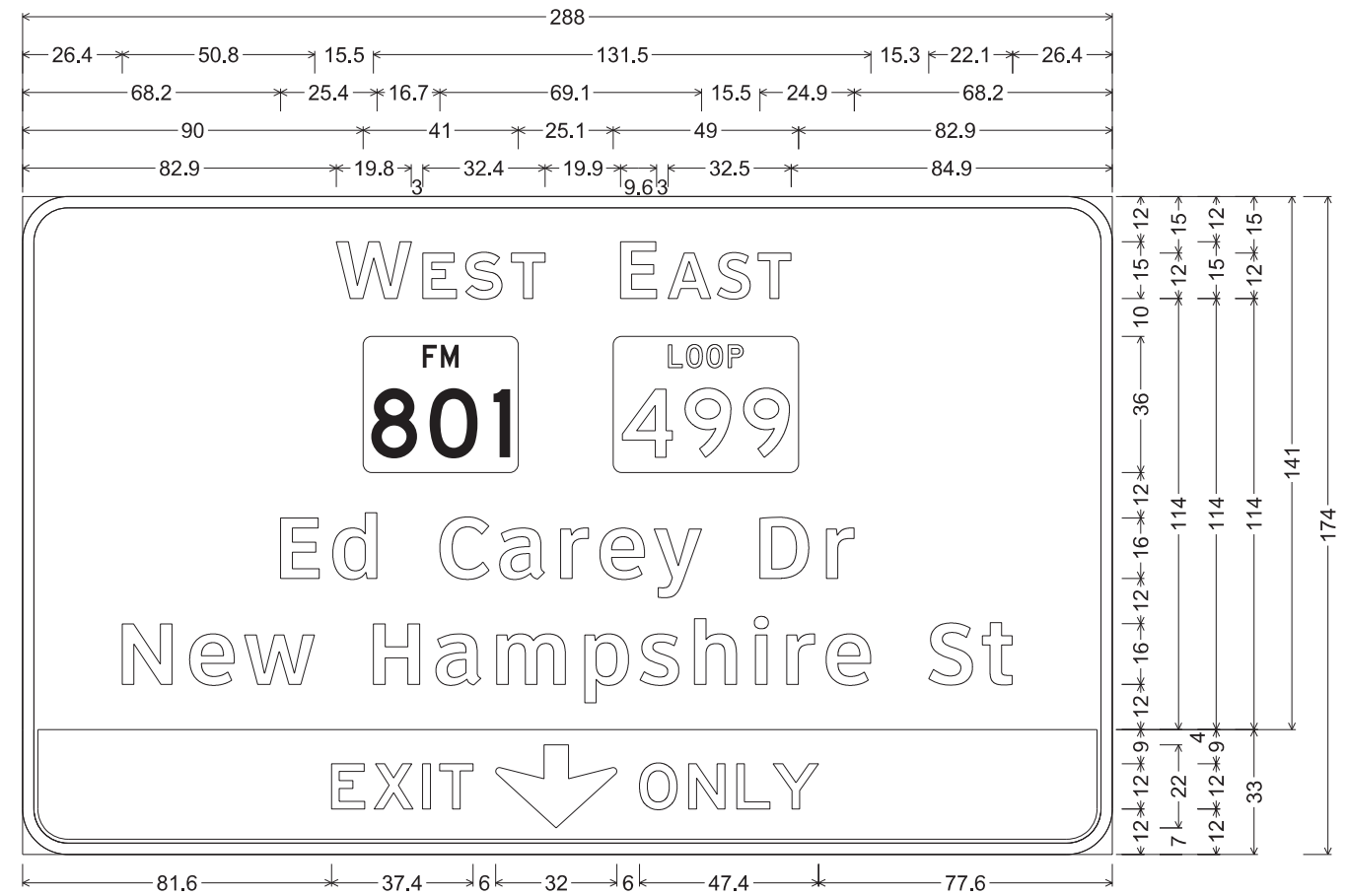
SHEET NO. 34 OF 53 SIGN NO. 1



6.0" Radius, 1.0" Border, White on, Green;
 "EXIT", ClearviewHwy-4-W; "23", ClearviewHwy-4-W; "B", ClearviewHwy-4-W;
 Table of letter and object lefts

E	X	I	T	2	3	B
8.2	16.2	26.8	31.3	53.1	65.8	83.0

SHEET NO. 34 OF 53 SIGN NO. 1
 SHEET NO. 35 OF 53 SIGN NO. 1

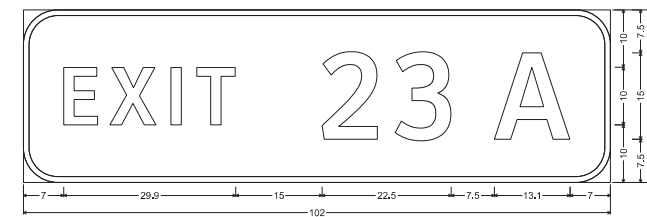


12.0" Radius, 3.0" Border, White on, Green;
 "W", ClearviewHwy-5-W-R; "EST", E Mod; State Highway 801 M1-6F3; "E", ClearviewHwy-5-W-R;
 "AST", ClearviewHwy-5-W-R; State Highway 499 M1-6L3; "Ed Carey Dr", ClearviewHwy-5-W-R;
 "New Hampshire St", ClearviewHwy-5-W-R;

E11-1;
 1.0" Inner border Green, 12.0" Radius, 3.0" Outer border, White on, Yellow;
 "EXIT" Black, E; Down Arrow 22 - 22.0" 270' Black; "ONLY" Black, E;
 Table of letter and object lefts

W	E	S	T	E	A	S	T						
82.9	105.7	117.1	129.2	158.0	170.6	183.6	194.4						
801	499	156.1											
90.0	156.1												
E	d	C	a	r	e	y	D	r					
68.2	82.0	110.3	126.1	142.2	152.6	167.0	194.9	212.4					
N	e	w	H	a	m	p	s	h	i	r	e	S	t
26.4	44.2	58.6	92.7	109.2	125.3	148.6	163.2	177.6	193.4	202.0	212.4	239.5	253.7
E	X	I	T	↘	O	N	L	Y					
81.6	92.9	105.7	110.2	125.0	163.0	176.1	188.7	198.4					

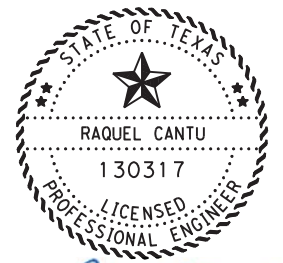
SHEET NO. 33 OF 53 SIGN NO. 2



6.0" Radius, 1.0" Border, White on, Green;
 "EXIT", ClearviewHwy-4-W; "23", ClearviewHwy-4-W; "A", ClearviewHwy-4-W;
 Table of letter and object lefts

E	X	I	T	2	3	A
7.0	15.0	26.7	30.1	51.9	64.6	81.9

SHEET NO. 33 OF 53 SIGN NO. 2

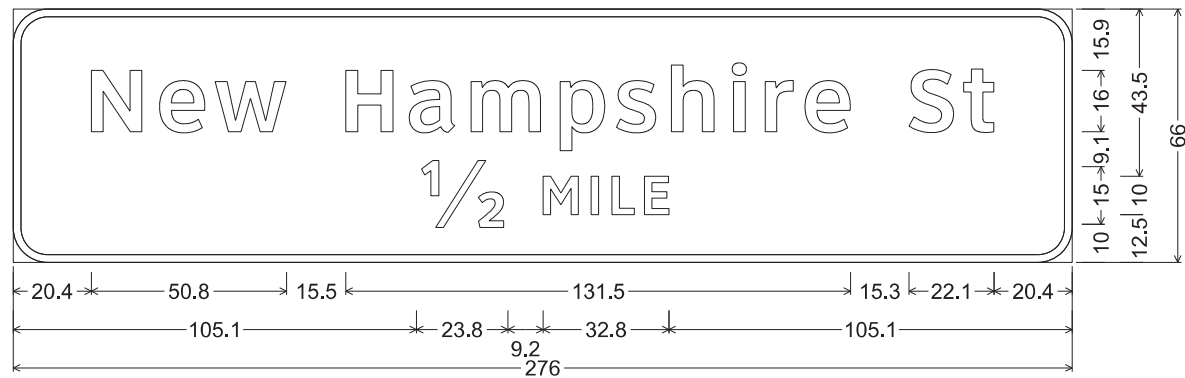


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IH-69E
LARGE SIGN DETAIL SHEETS

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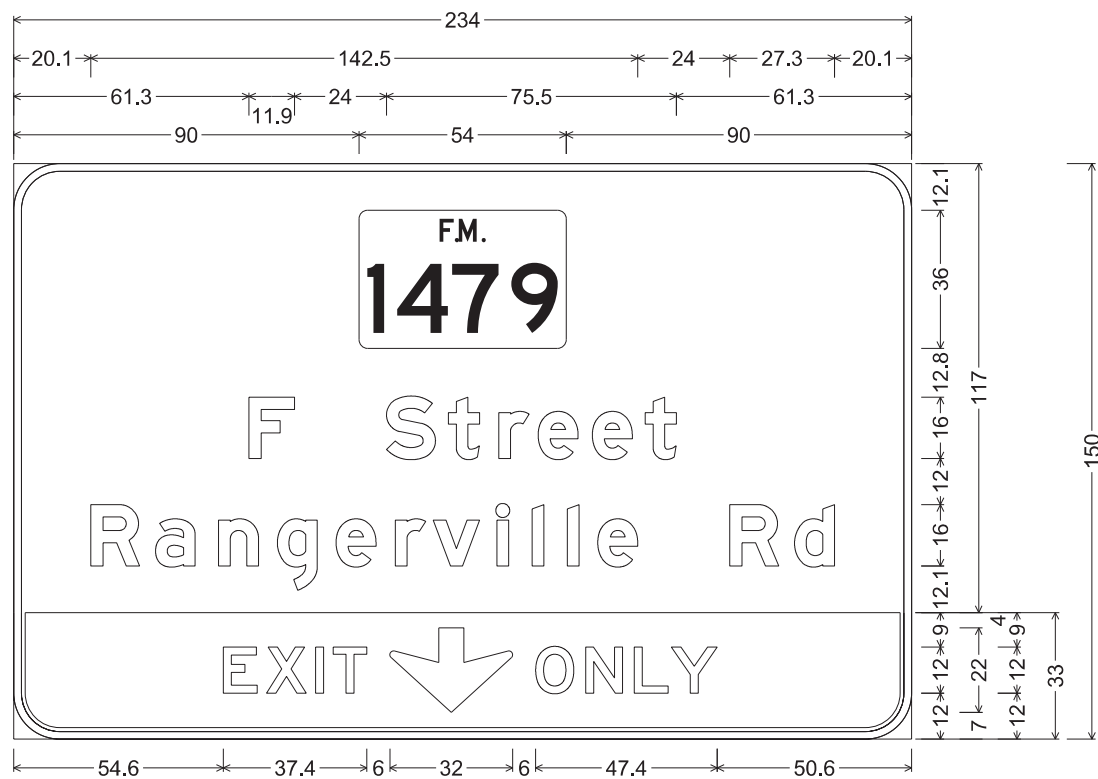
DN: LSJ	DRAWING ORIGINAL	DATE SEP. 2020	FED. DIST. NO.	STATE TEXAS	FEDERAL PROJECT NO.	SHEET NO. 180
CK DN: GY	DW: LSJ	CK DW: GY	STATE DIST. NO. PHARR	COUNTY HIDALGO,	CONTROL NO. 6353	SECTION NO. 00
					JOB NO. 001	HIGHWAY NO. IH-2,
						ETC.



9.0" Radius, 2.0" Border, White on, Green;
 "New Hampshire St", ClearviewHwy-5-W-R; "1/2 MILE", ClearviewHwy-5-W-R;
 Table of letter and object lefts

N	e	w	H	a	m	p	s	h	i	r	e	S	t
20.4	38.2	52.6	86.7	103.2	119.3	142.6	157.2	171.6	187.4	196.0	206.4	233.5	247.7
1/2	M	I	L	E									
105.1	138.1	150.6	156.0	164.5									

SHEET NO. 35 OF 53 SIGN NO. 1

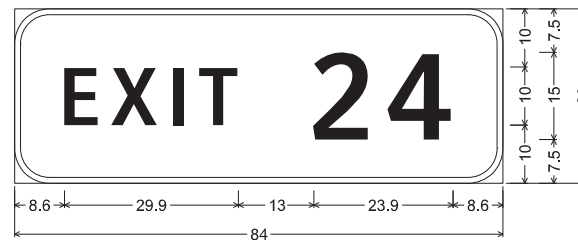


12.0" Radius, 2.0" Border, White on, Green;
 State Highway 1479 4; "F Street", E Mod; "Rangerville Rd", E Mod;

E11-1;
 1.0" Inner border Green, 12.0" Radius, 2.0" Outer border, White on, Yellow;
 "EXIT" Black, E; Down Arrow 22 - 22.0" 270' Black; "ONLY" Black, E;
 Table of letter and object lefts

1479	90.0											
F	S	t	r	e	e	t						
61.3	97.2	113.3	126.4	136.7	150.8	164.6						
R	a	n	g	e	r	v	i	l	i	e	R	d
20.1	37.0	53.4	68.7	84.0	99.4	109.4	125.9	135.1	144.3	152.2	186.6	203.5
E	X	I	T	↓	O	N	L	Y				
54.6	65.9	78.7	83.2	98.0	136.0	149.1	161.7	171.4				

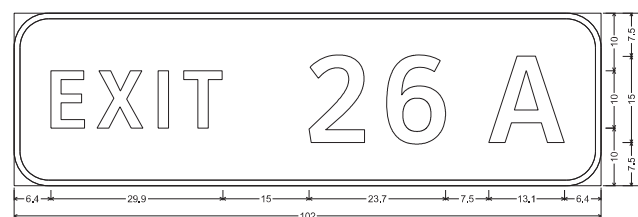
SHEET NO. 37 OF 53 SIGN NO. 1



6.0" Radius, 1.0" Border, White on, Green;
 "EXIT", ClearviewHwy-4-W; "24", ClearviewHwy-4-W;
 Table of letter and object lefts

E	X	I	T	2	4
8.6	16.6	27.3	31.7	51.5	64.2

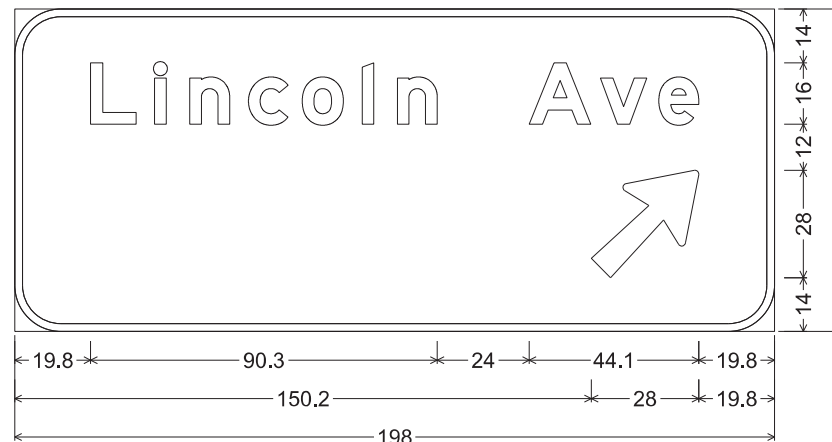
SHEET NO. 36 OF 53 SIGN NO. 1
 SHEET NO. 37 OF 53 SIGN NO. 1



6.0" Radius, 1.0" Border, White on, Green;
 "EXIT", ClearviewHwy-4-W; "26", ClearviewHwy-4-W; "A", ClearviewHwy-4-W;
 Table of letter and object lefts

E	X	I	T	2	6	A
6.4	14.4	25.0	29.5	51.3	64.7	82.5

SHEET NO. 37 OF 53 SIGN NO. 3



12.0" Radius, 2.0" Border, White on, Green;
 "Lincoln Ave", E Mod; Arrow A-3 - 35.6" 45';
 Table of letter and object lefts

L	i	n	c	o	l	i	n	A	v	e
19.8	36.4	45.6	60.9	74.9	90.5	99.7	134.1	152.6	167.8	

↑
150.2

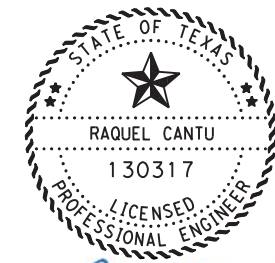
SHEET NO. 37 OF 53 SIGN NO. 3



E11-1aR;
 12.0" Radius, 2.0" Border, White on, Green;
 State Highway 1479 SH-4; "F Street", ClearviewHwy-5-W-R; "Rangerville Rd", ClearviewHwy-5-W-R;
 E11-1a;
 1.0" Inner border Green, 12.0" Radius, 2.0" Outer border, White on, Yellow;
 "EXIT" Black, E; Down Arrow 22 - 22.0" 270' Black; "ONLY" Black, E;
 Table of letter and object lefts

1479	90.0											
F	S	t	r	e	e	t						
61.3	97.2	113.3	126.4	136.7	150.8	164.6						
R	a	n	g	e	r	v	i	l	i	e	R	d
20.1	37.0	53.4	68.7	84.0	99.4	109.4	125.9	135.1	144.3	152.2	186.6	203.5
E	X	I	T	↓	O	N	L	Y				
54.6	65.9	78.7	83.2	98.0	136.0	149.1	161.7	171.4				

SHEET NO. 36 OF 53 SIGN NO. 1



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TEXAS DEPARTMENT OF TRANSPORTATION
 IH-69E
 LARGE SIGN DETAIL SHEETS

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DN: LSJ	DRAWING: ORIGINAL	DATE: SEP. 2020	TITLE: IH-69E	STATE: TEXAS	FEDERAL PROJECT NO.:	SHEET NO.:
CK DN: GV	DW: LSJ	CK DW: GV	STATE DIST. NO.:	COUNTY: PHARR	CONTROL NO.:	SECTION NO.:
				HIDALGO	6353	0001

ETC. ETC.



12.0" Radius, 2.0" Border, White on, Green;
 "Downtown", ClearviewHwy-5-W-R; US 83 M1-4; "B", ClearviewHwy-5-W-R;
 "USINESS", ClearviewHwy-5-W-R; "Tyler Ave", ClearviewHwy-5-W-R;
 "Fairpark Blvd", ClearviewHwy-5-W-R; "EXIT", ClearviewHwy-5-W-R;
 "26", ClearviewHwy-5-W-R; "C", ClearviewHwy-5-W-R;

Table of letter and object lefts

D	o	w	n	t	o	w	n
38.2	55.1	70.1	92.0	106.6	117.8	132.8	154.7

—
2.0

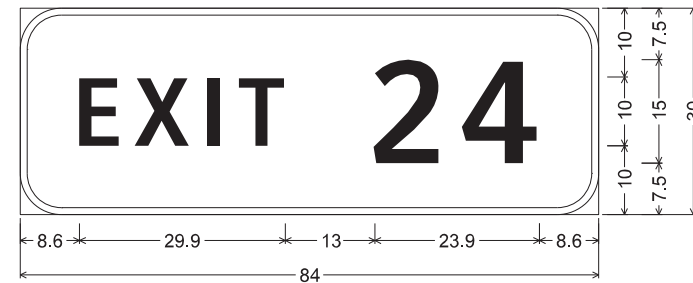
83	B	U	S	I	N	E	S	S
30.1	84.1	99.5	111.8	123.8	130.3	144.2	154.2	165.2

T	y	l	e	r	A	v	e
42.9	56.3	72.0	80.2	96.5	117.9	134.5	149.3

F	a	i	r	p	a	r	k	B	l	v	d
18.4	31.3	47.0	55.6	66.7	81.8	97.8	108.9	135.6	152.3	159.2	174.0

E	X	I	T	2	6	C
56.1	64.0	74.8	79.2	101.5	115.7	135.6

SHEET NO. 38 OF 53 SIGN NO. 2



6.0" Radius, 1.0" Border, White on, Green;
 "EXIT", ClearviewHwy-4-W; "24", ClearviewHwy-4-W;

Table of letter and object lefts

E	X	I	T	2	4
8.6	16.6	27.3	31.7	51.5	64.2

SHEET NO. 39 OF 53 SIGN NO. 1



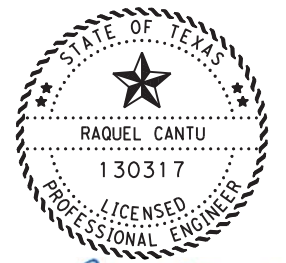
12.0" Radius, 2.0" Border, White on, Green;
 "F Street", ClearviewHwy-5-W-R;
 "1 1/4 MILE", ClearviewHwy-5-W-R;

Table of letter and object lefts

F	S	t	r	e	e	t
22.3	47.1	61.2	73.1	83.5	99.1	113.8

1	1/4	M	I	L	E
34.5	43.8	76.7	89.2	94.7	103.1

SHEET NO. 39 OF 53 SIGN NO. 1

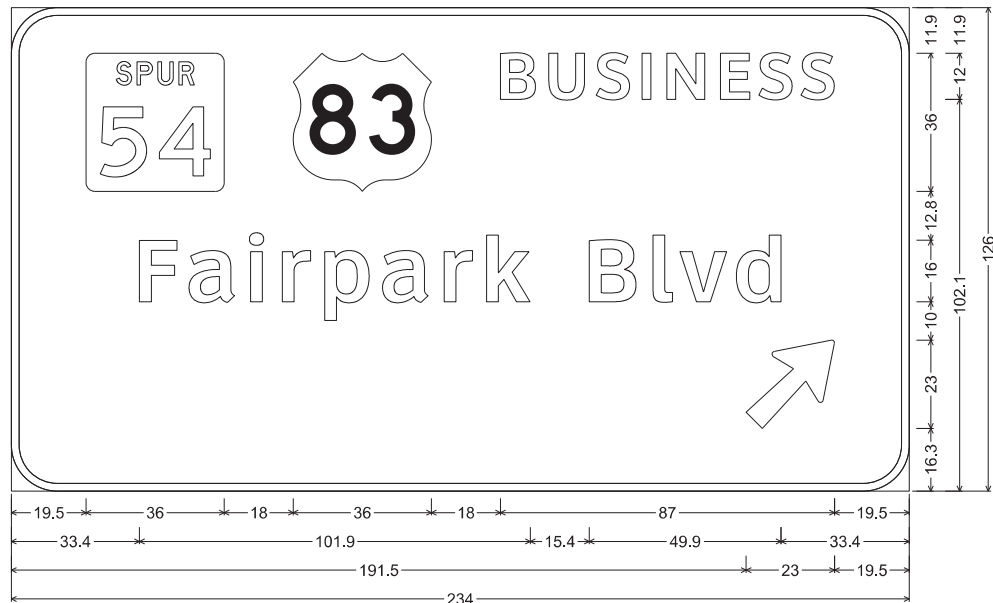


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TEXAS DEPARTMENT OF TRANSPORTATION
 IH-69E
 LARGE SIGN DETAIL SHEETS

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DN: LSJ	DRAWING ORIGINAL	DATE SEP. 2020	FED. DIST. NO.	STATE TEXAS	FEDERAL PROJECT NO.	SHEET 183
CK DN: GY	DW: LSJ	CK DW: GY	STATE DIST. NO. PHARR	COUNTY HIDALGO,	CONTROL NO. 6353	SECTION NO. 00
			JOB NO. 001	HIGHWAY IH-2,	ETC.	ETC.

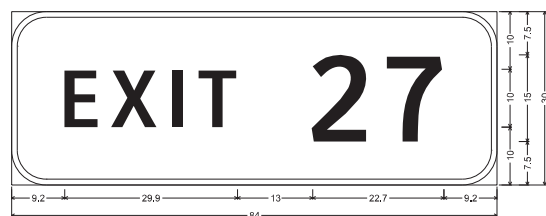


12.0" Radius, 2.0" Border, White on, Green;
 State Highway 54 M1-6S2; US 83 M1-4; "BUSINESS", ClearviewHwy-5-W-R; "Fairpark Blvd", ClearviewHwy-5-W-R;
 Arrow A-2 - 29.3" 45";

Table of widths and spaces

19.5	36.0	18.0	36.0	18.0	9.1	3.5	9.4	2.9	8.8	3.1	2.5	4.1	9.9	4.0	7.8	2.3	8.6	2.3	8.8	19.4				
33.4	F	a	i	r	p	a	r	k	B	l	v	d	19.5											
33.4	9.9	3.0	12.0	3.8	3.8	4.8	7.4	3.5	11.8	3.4	11.9	4.1	7.5	3.6	11.4	15.4	12.1	4.5	5.1	1.9	12.1	2.5	11.8	33.3
191.5	23.0	19.5																						

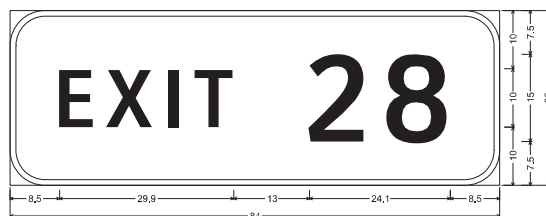
SHEET NO. 40 OF 53 SIGN NO. 1



6.0" Radius, 1.0" Border, White on, Green;
 "EXIT", ClearviewHwy-4-W; "27", ClearviewHwy-4-W;
 Table of letter and object lefts

E	X	I	T	2	7
9.2	17.2	27.8	32.3	52.1	64.9

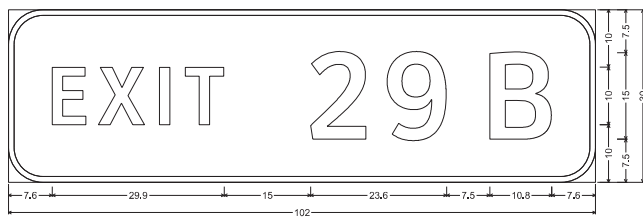
SHEET NO. 40 OF 53 SIGN NO. 1



6.0" Radius, 1.0" Border, White on, Green;
 "EXIT", ClearviewHwy-4-W; "28", ClearviewHwy-4-W;
 Table of letter and object lefts

E	X	I	T	2	8
8.5	16.5	27.1	31.6	51.4	64.9

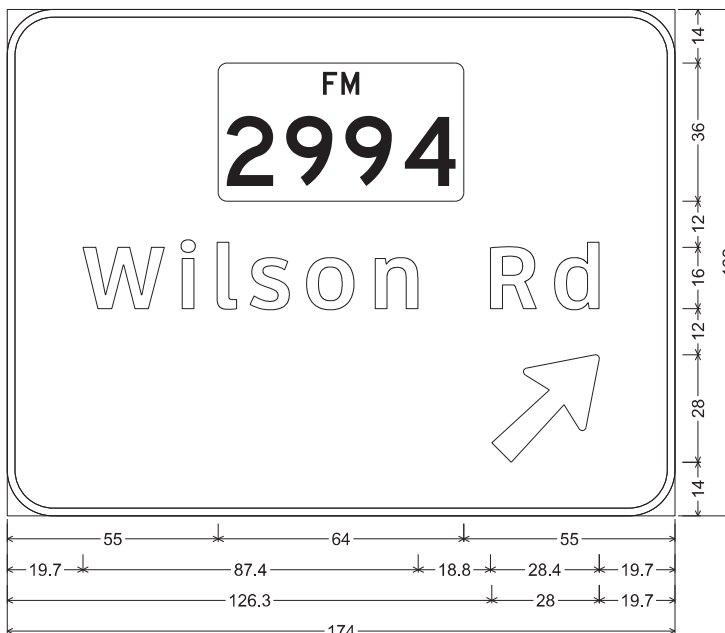
SHEET NO. 42 OF 53 SIGN NO. 1



6.0" Radius, 1.0" Border, White on, Green;
 "EXIT", ClearviewHwy-4-W; "29", ClearviewHwy-4-W; "B", ClearviewHwy-4-W;
 Table of letter and object lefts

E	X	I	T	2	9	B
7.6	15.6	26.2	30.7	52.5	65.8	83.6

SHEET NO. 43 OF 53 SIGN NO. 1

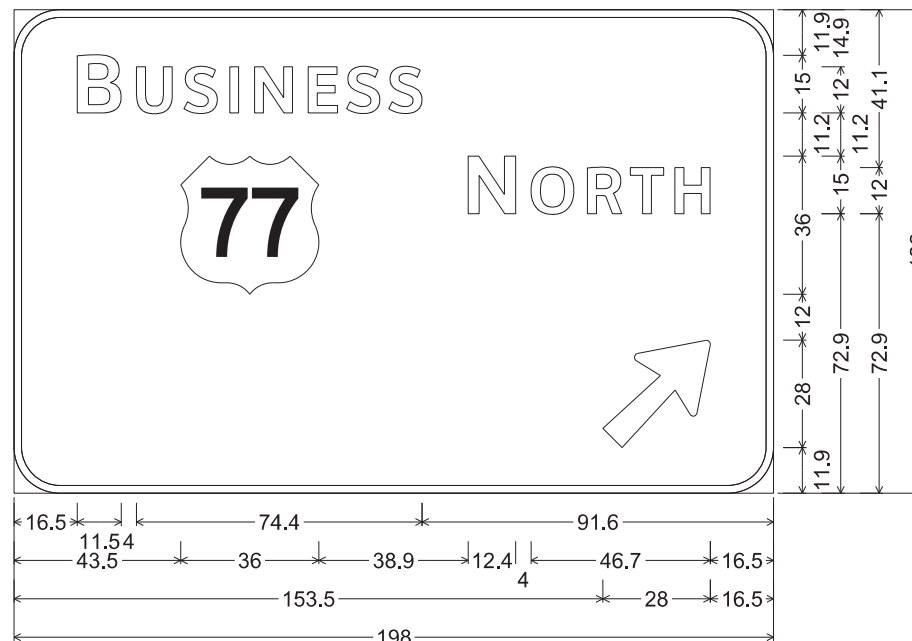


12.0" Radius, 2.0" Border, White on, Green;
 State Highway 2994 M1-6F4; "Wilson Rd", ClearviewHwy-5-W;
 Arrow A-3 - 35.6" 45";

Table of widths and spaces

55.0	64.0	55.0														
W	i	l	s	o	n	R	d									
19.7	21.3	4.3	3.8	5.6	5.1	3.5	10.3	4.4	12.5	5.4	11.2	18.8	12.0	4.7	11.7	19.7
126.3	28.0	19.7														

SHEET NO. 42 OF 53 SIGN NO. 1



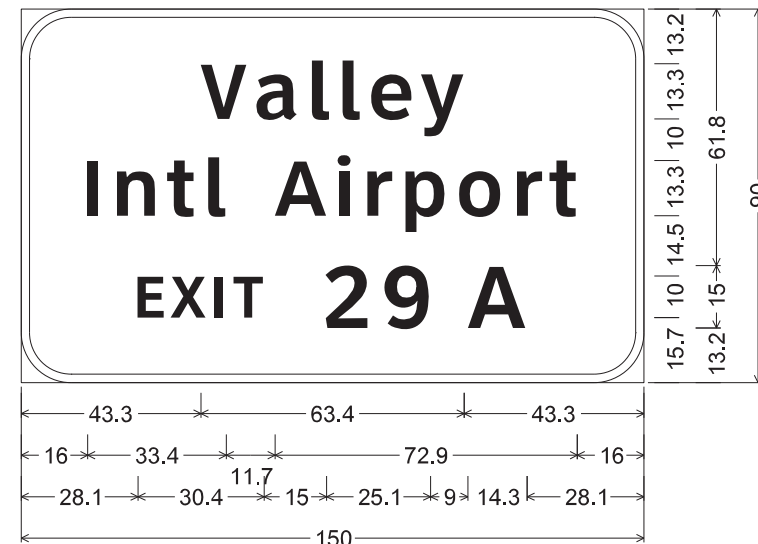
Business 77 South Conley Rd arrow 45 right;
 12.0" Radius, 2.0" Border, White on, Green;
 "B", ClearviewHwy-5-W-R; "USINESS", ClearviewHwy-5-W-R;
 US 77 M1-4; "N", ClearviewHwy-5-W-R; "ORTH", ClearviewHwy-5-W-R;
 Arrow A-3 - 35.6" 45";

Table of letter and object lefts

B	U	S	I	N	E	S	S
16.5	32.0	44.3	56.2	62.7	76.7	86.7	97.7
77	N	O	R	T	H		
43.5	118.4	134.8	149.5	160.7	172.3		

153.5

SHEET NO. 43 OF 53 SIGN NO. 1
 SHEET NO. 48 OF 53 SIGN NO. 1

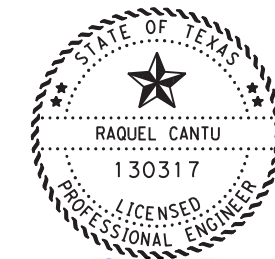


12.0" Radius, 2.0" Border, White on, Green;
 "Valley", ClearviewHwy-5-W-R;
 "Intl Airport", ClearviewHwy-5-W-R;
 "EXIT", ClearviewHwy-5-W-R;
 "29", ClearviewHwy-5-W-R; "A", ClearviewHwy-5-W-R;

Table of letter and object lefts

V	a	l	l	e	y	
43.3	56.7	70.1	77.5	84.3	96.3	
I	n	t	l			
16.0	23.1	35.2	45.1			
A	i	r	p	o	r	t
61.1	76.3	83.4	92.6	105.5	119.5	127.4
E	X	I	T	2	9	A
28.1	36.1	46.8	51.2	73.5	87.6	107.6

SHEET NO. 41 OF 53 SIGN NO. 1



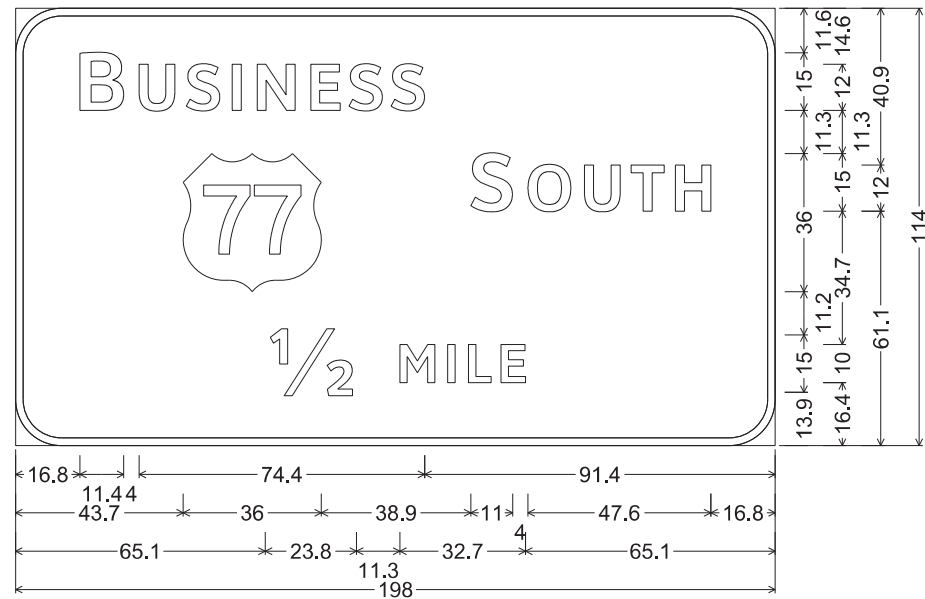
Raquel Cantu 11.06.20

TEXAS DEPARTMENT OF TRANSPORTATION
 IH-69E
 LARGE SIGN DETAIL SHEETS

© 2020 SHEET 20 OF 23

DN: LSJ	DRAWING: ORIGINAL	DATE: SEP. 2020	FED. DIST. NO.:	STATE: TEXAS	FEDERAL PROJECT NO.:	SHEET NO.:
CK DN: GV	DW: LSJ	CK DW: GV	STATE DIST. NO.:	COUNTY: PHARR	CONTROL NO.:	SECTION NO.:
					6353	0001

184
 IH-2,
 ETC.

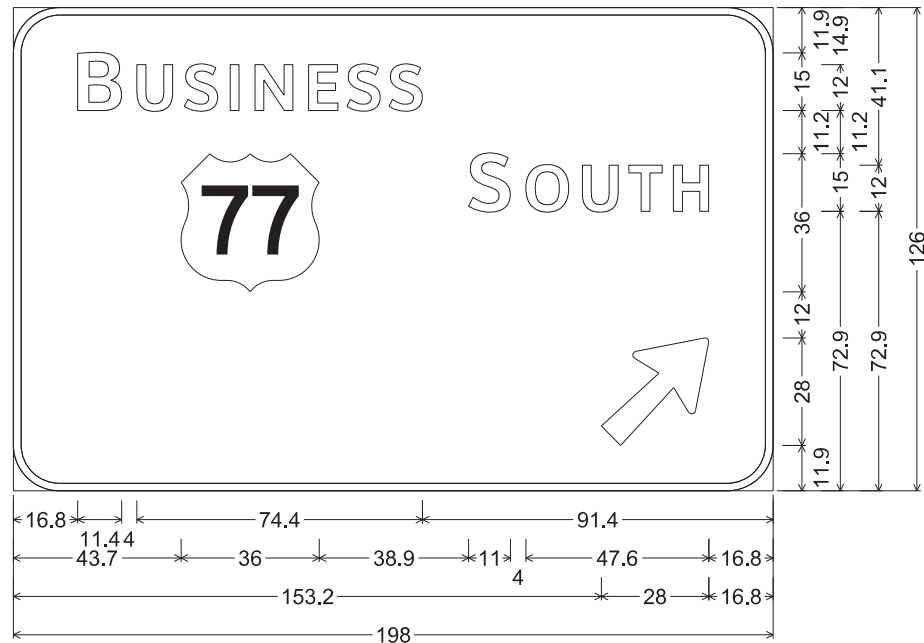


Business 77 South Conley Rd exit 1/2 mile;
 12.0" Radius, 2.0" Border, White on, Green;
 "B", ClearviewHwy-5-W-R; "USINESS", ClearviewHwy-5-W-R;
 US 77 M1-4; "S", ClearviewHwy-5-W-R; "OUTH", ClearviewHwy-5-W-R;
 "1/2 MILE", ClearviewHwy-5-W-R;

Table of letter and object lefts

B	U	S	I	N	E	S	S
16.8	32.2	44.5	56.5	63.0	76.9	86.9	97.9
77	S	O	U	T	H		
43.7	118.6	133.6	148.3	160.4	172.0		
1/2	M	I	L	E			
65.1	100.2	112.6	118.1	126.5			

SHEET NO. 44 OF 53 SIGN NO. 1

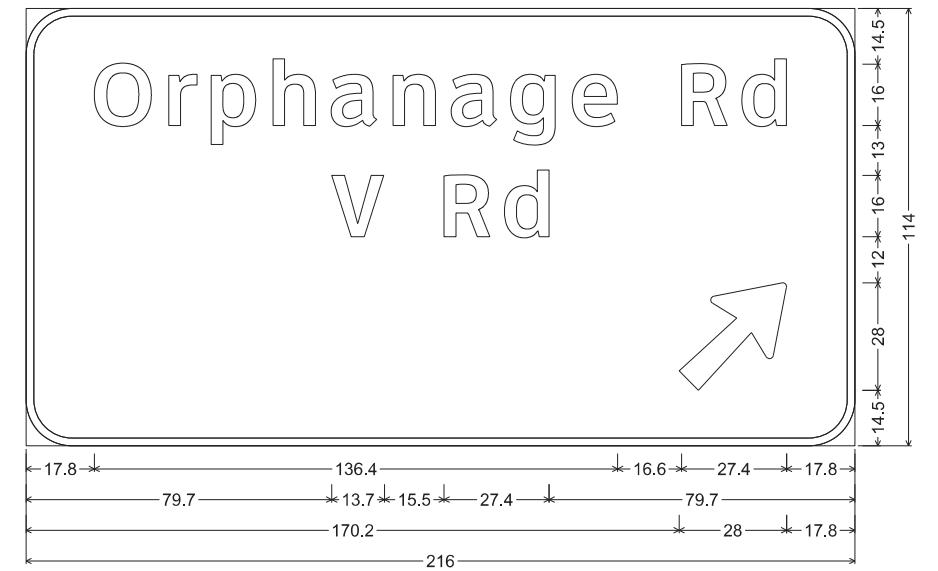


Business 77 South Conley Rd arrow 45 right;
 12.0" Radius, 2.0" Border, White on, Green;
 "B", ClearviewHwy-5-W-R; "USINESS", ClearviewHwy-5-W-R;
 US 77 M1-4; "S", ClearviewHwy-5-W-R; "OUTH", ClearviewHwy-5-W-R;
 Arrow A-3 - 35.6" 45';

Table of letter and object lefts

B	U	S	I	N	E	S	S
16.8	32.2	44.5	56.5	63.0	76.9	86.9	97.9
77	S	O	U	T	H		
43.7	118.6	133.6	148.3	160.4	172.0		
Arrow							
153.2							

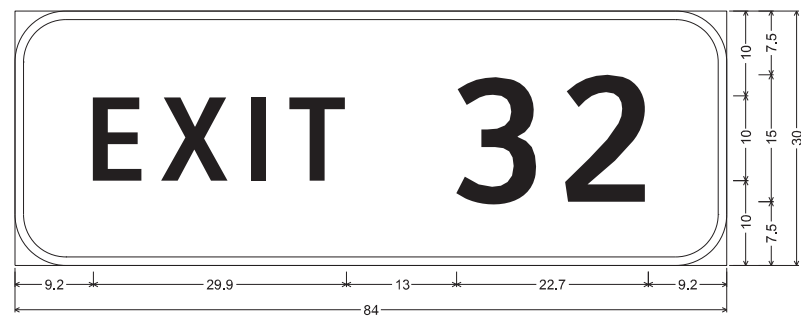
SHEET NO. 45 OF 53 SIGN NO. 1
 SHEET NO. 46 OF 53 SIGN NO. 1



12.0" Radius, 2.0" Border, White on, Green;
 "Orphanage Rd", ClearviewHwy-5-W-R; "V Rd", ClearviewHwy-5-W-R; Arrow A-3 - 35.6" 45';
 Table of widths and spaces

17.8	O	r	p	h	a	n	a	g	e								
17.8	14.9	4.5	7.4	3.6	11.7	4.4	11.2	4.0	12.0	4.1	11.1	4.1	11.9	3.6	11.7	4.4	11.8
		R	d														
	16.6	12.0	3.8	11.6	17.8												
79.7	V	R	d														
	13.7	15.5	12.0	3.8	11.6	79.7											
170.2	Arrow																
	28.0	17.8															

SHEET NO. 47 OF 53 SIGN NO. 1

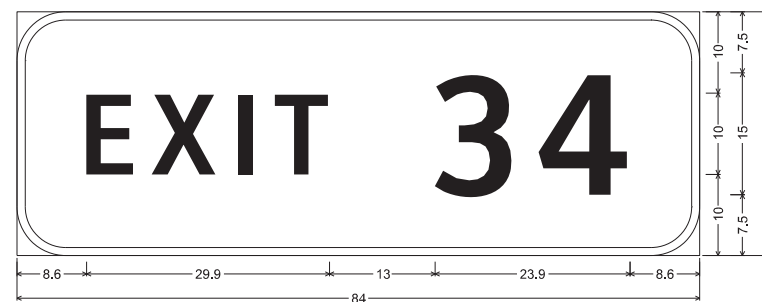


6.0" Radius, 1.0" Border, White on, Green;
 "EXIT", ClearviewHwy-4-W; "32", ClearviewHwy-4-W;

Table of letter and object lefts

E	X	I	T	3	2
9.2	17.3	27.9	32.4	52.1	65.1

SHEET NO. 44 OF 53 SIGN NO. 1
 SHEET NO. 45 OF 53 SIGN NO. 1
 SHEET NO. 46 OF 53 SIGN NO. 1

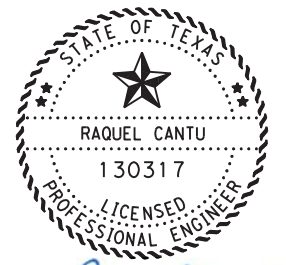


6.0" Radius, 1.0" Border, White on, Green;
 "EXIT", ClearviewHwy-4-W; "34", ClearviewHwy-4-W;

Table of letter and object lefts

E	X	I	T	3	4
8.6	16.6	27.2	31.7	51.5	64.2

SHEET NO. 47 OF 53 SIGN NO. 1

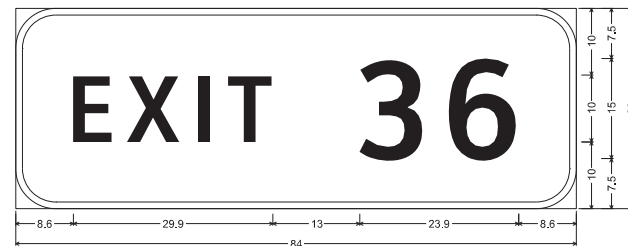


Raquel Cantu 11.06.20

TEXAS DEPARTMENT OF TRANSPORTATION
 IH-69E
 LARGE SIGN DETAIL SHEETS

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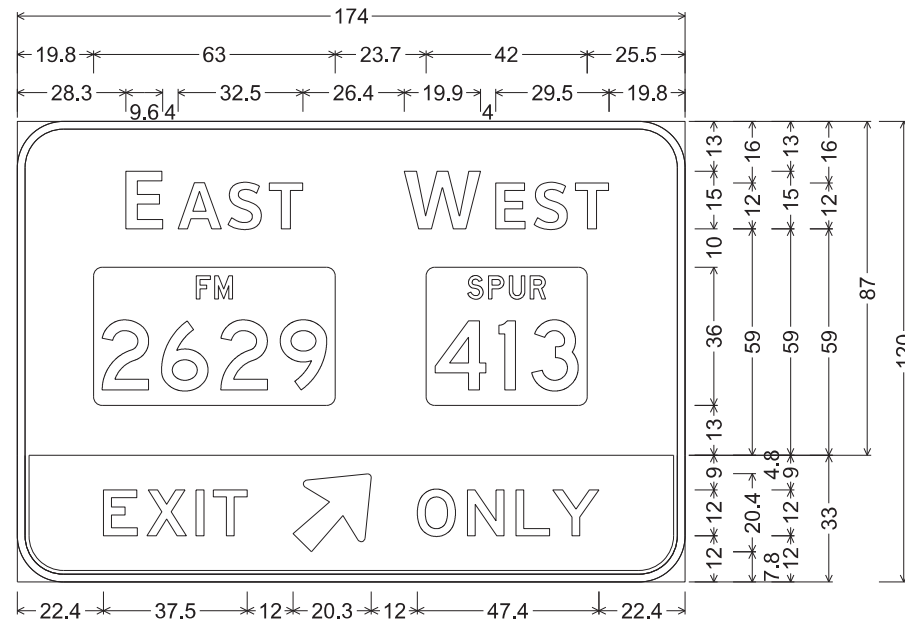
DN: L.S.J.	DRAWING ORIGINAL	DATE SEP. 2020	FED. DIST. NO.	STATE TEXAS	FEDERAL PROJECT NO.	SHEET NO. 185
CK DN: G.V.	DW: L.S.J.	CK DW: G.V.	STATE DIST. NO. PHARR	COUNTY HIDALGO,	CONTROL NO. 6353	SECTION NO. 00
					JOB NO. 001	HIGHWAY NO. IH-2,
						ETC.



6.0" Radius, 1.0" Border, White on, Green;
 "EXIT", ClearviewHwy-4-W; "36", ClearviewHwy-4-W;
 Table of letter and object lefts

E	X	I	T	3	6
8.6	16.7	27.3	31.8	51.5	65.1

SHEET NO. 48 OF 53 SIGN NO. 1



E11-1aR;

12.0" Radius, 2.0" Border, White on, Green;
 "E", ClearviewHwy-5-W-R; "AST", ClearviewHwy-5-W-R;
 State Highway 2629 M1-6F4; "W", ClearviewHwy-5-W-R;
 "EST", ClearviewHwy-5-W-R; State Highway 413 M1-6S3;

E11-1e;

1.0" Inner border Green, 12.0" Radius, 2.0" Outer border, White on, Yellow;
 "EXIT" Black, E; Arrow B-3 - 25.0" 45' Black;
 "ONLY" Black, E;

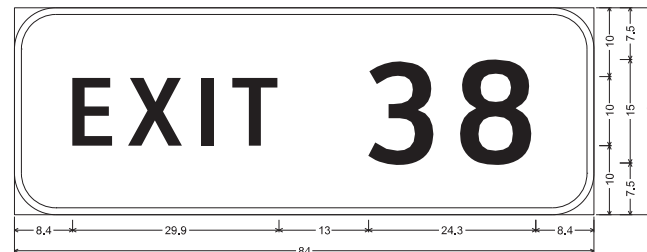
Table of letter and object lefts

E	A	S	T	W	E	S	T
28.3	41.9	54.9	65.7	100.8	124.7	134.6	145.4

2629	413
19.8	106.5

E	X	I	T	↗	O	N	L	Y
22.4	33.7	46.5	51.1	71.9	104.2	117.3	129.9	139.6

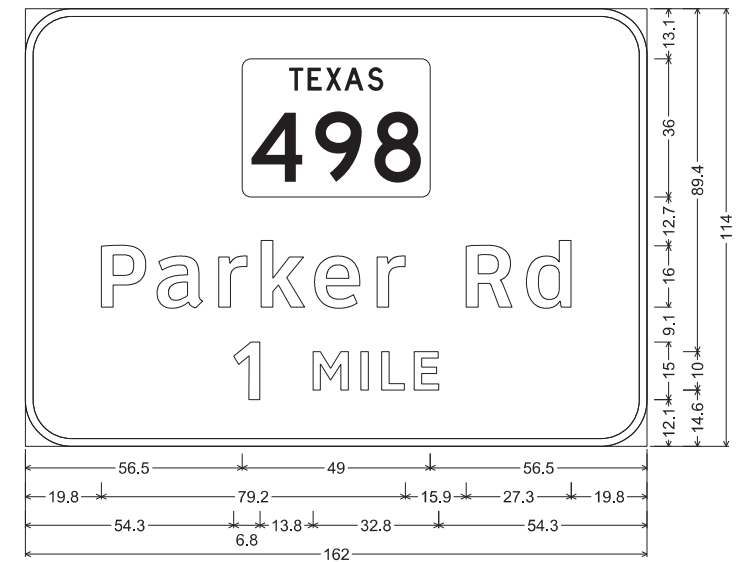
SHEET NO. 49 OF 53 SIGN NO. 1



6.0" Radius, 1.0" Border, White on, Green;
 "EXIT", ClearviewHwy-4-W; "38", ClearviewHwy-4-W;
 Table of letter and object lefts

E	X	I	T	3	8
8.4	16.5	27.1	31.5	51.3	65.0

SHEET NO. 49 OF 53 SIGN NO. 1



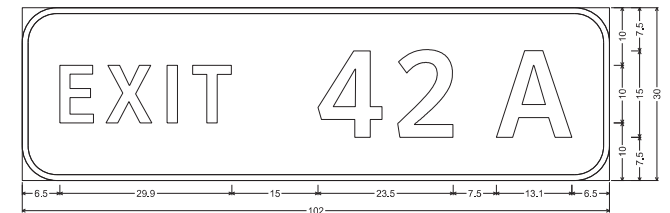
12.0" Radius, 2.0" Border, White on, Green;
 State Highway 498 M1-6T3; "Parker Rd", ClearviewHwy-5-W-R;
 "1", ClearviewHwy-5-W-R; "MILE", ClearviewHwy-5-W-R;
 Table of letter and object lefts

498
56.5

P	a	r	k	e	r	R	d
19.8	34.3	50.4	61.4	75.4	91.6	114.9	130.6

1	M	I	L	E
54.3	74.9	87.4	92.9	101.3

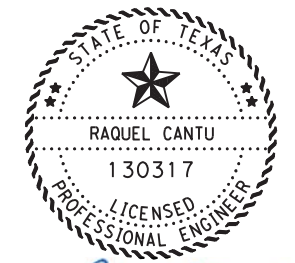
SHEET NO. 50 OF 53 SIGN NO. 1



6.0" Radius, 1.0" Border, White on, Green;
 "EXIT", ClearviewHwy-4-W; "42", ClearviewHwy-4-W; "A", ClearviewHwy-4-W;
 Table of letter and object lefts

E	X	I	T	4	2	A
6.5	14.5	25.1	29.6	51.4	65.2	82.4

SHEET NO. 50 OF 53 SIGN NO. 1

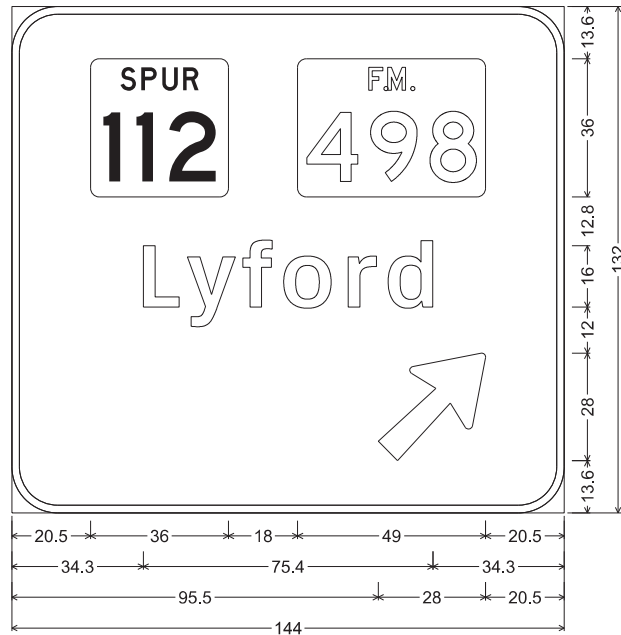


Raquel Cantu 11.06.20

TEXAS DEPARTMENT OF TRANSPORTATION
IH-69E
LARGE SIGN DETAIL SHEETS

© 2020 SHEET 22 OF 23

DN: LSJ	DRAWING ORIGINAL	DATE SEP. 2020	FED. DIST. NO.	STATE TEXAS	FEDERAL PROJECT NO.	SHEET NO. 186
CK DN: GY	DW: LSJ	CK DW: GY	STATE DIST. NO. PHARR	COUNTY HIDALGO,	CONTROL NO. 6353	SECTION NO. 00
					JOB NO. 001	HIGHWAY NO. IH-2,
						ETC.

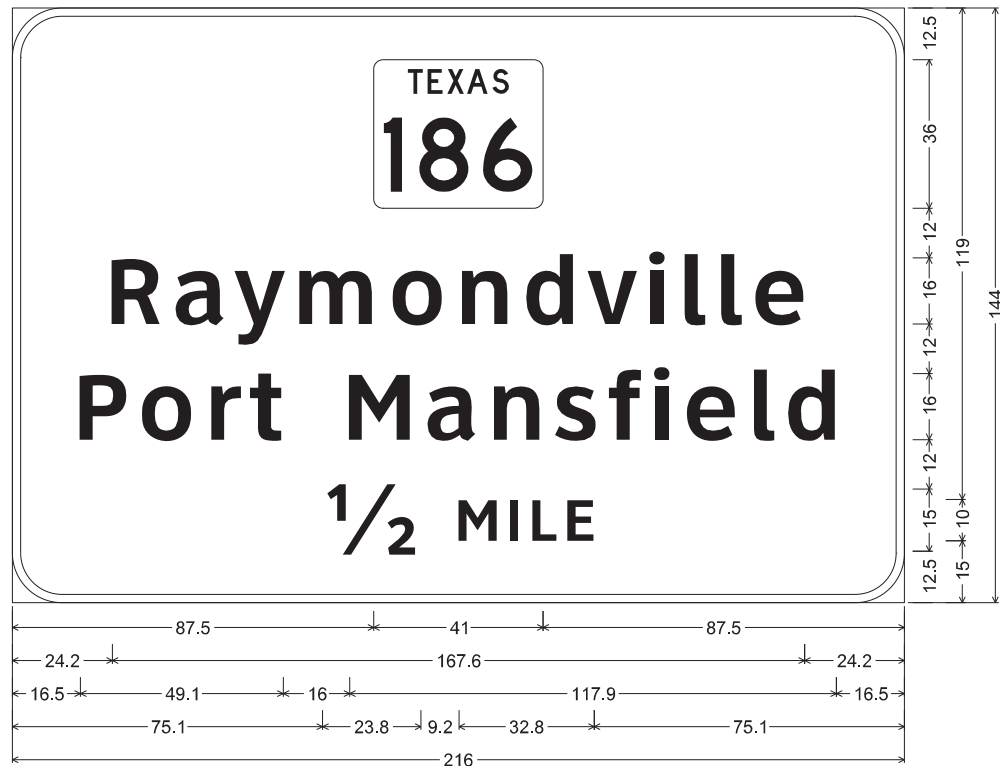


12.0" Radius, 2.0" Border, White on, Green;
 State Highway 112 M1-6S3; State Highway 498 3;
 "Lyford", ClearviewHwy-5-W-R; Arrow A-3 - 35.6" 45';

Table of widths and spaces

20.5	36.0	18.0	49.0	20.5								
L	y	f	o	r	d							
34.3	9.4	2.0	12.5	2.0	7.8	2.9	12.4	4.4	7.4	3.0	11.6	34.3
↗	28.0	20.5										

SHEET NO. 51 OF 53 SIGN NO. 1

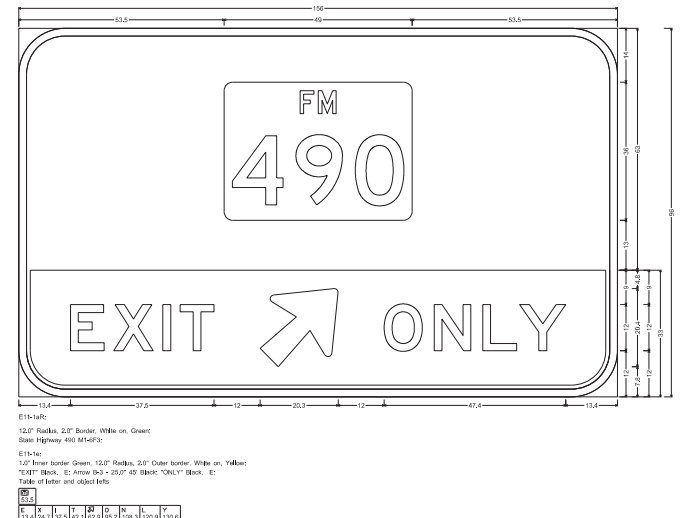


12.0" Radius, 2.0" Border, White on, Green;
 State Highway 186 M1-6T3; "Raymondville", ClearviewHwy-5-W-R;
 "Port Mansfield", ClearviewHwy-5-W-R; "1/2 MILE", ClearviewHwy-5-W-R;

Table of widths and spaces

87.5	41.0	87.5																										
R	a	y	m	o	n	d	v	i	l	e																		
24.2	11.9	3.5	11.9	2.3	12.4	3.3	18.1	4.5	12.4	4.4	11.1	4.5	11.6	3.2	12.2	2.8	3.8	4.8	5.1	3.7	5.2	3.1	11.8	24.2				
P	o	r	t																									
16.5	11.6	3.3	12.4	4.4	7.4	2.0	8.0																					
M	a	n	s	f	i	e	l	d																				
16.0	14.7	4.2	12.0	4.1	11.2	3.6	10.3	2.8	7.7	3.2	3.8	4.2	11.8	4.4	5.2	3.1	11.6	16.5										
1/2	M	I	L	E																								
75.1	23.8	9.2	9.2	3.3	2.0	3.4	5.9	2.6	6.4	75.1																		

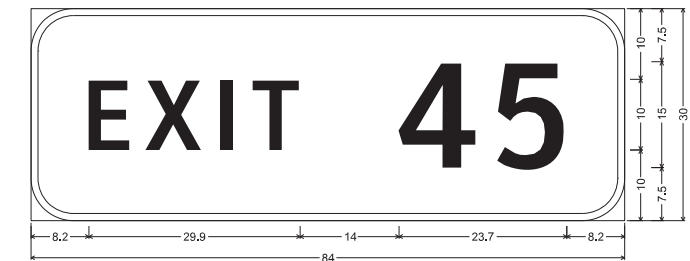
SHEET NO. 53 OF 53 SIGN NO. 1



12.0" Radius, 2.0" Border, White on, Green;
 State Highway 498 M1-6T3;
 12" Arrow Border Green, 12.0" Radius, 2.0" Outer Border, White on, Yellow;
 "EXIT" Black, 12" Arrow Box - 20.0" 45" Black, "ONLY" Black, 12"
 Table of letter and object lefts

E	X	I	T	4	9	0
8.2	16.2	26.8	31.3	52.1	66.1	66.1

SHEET NO. 52 OF 53 SIGN NO. 1

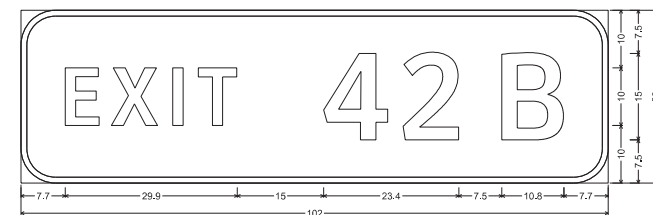


6.0" Radius, 1.0" Border, White on, Green;
 "EXIT", ClearviewHwy-4-W; "45", ClearviewHwy-4-W;

Table of letter and object lefts

E	X	I	T	4	5
8.2	16.2	26.8	31.3	52.1	66.1

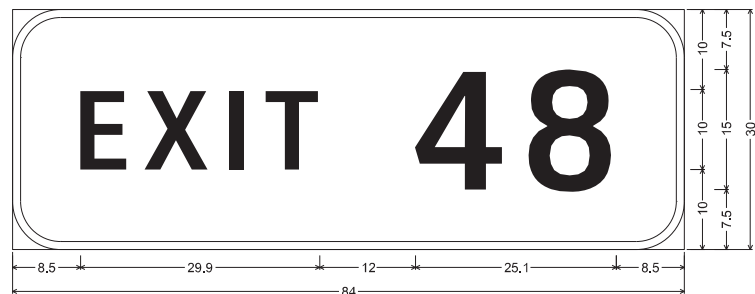
SHEET NO. 52 OF 53 SIGN NO. 1



6.0" Radius, 1.0" Border, White on, Green;
 "EXIT", ClearviewHwy-4-W; "42", ClearviewHwy-4-W; "B", ClearviewHwy-4-W;

E	X	I	T	4	2	B
7.7	15.7	26.3	30.8	52.6	66.4	83.5

SHEET NO. 51 OF 53 SIGN NO. 1

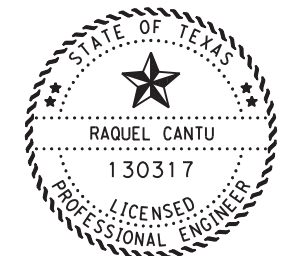


6.0" Radius, 1.0" Border, White on, Green;
 "EXIT", ClearviewHwy-4-W; "48", ClearviewHwy-4-W;

Table of letter and object lefts

E	X	I	T	4	8
8.5	16.5	27.2	31.6	50.4	64.9

SHEET NO. 53 OF 53 SIGN NO. 1



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TEXAS DEPARTMENT OF TRANSPORTATION
 IH-69E
 LARGE SIGN DETAIL SHEETS

© 2020 SHEET 23 OF 23

DN: LSJ	DRAWING ORIGINAL	DATE SEP. 2020	FED. DIST. NO.	STATE TEXAS	FEDERAL PROJECT NO.	SHEET NO. 187
CK DN: GY	DW: LSJ	CK DW: GY	STATE DIST. NO.	COUNTY PHARR	CONTROL NO. 6353	SECTION NO. 00
					JOB NO. 001	HIGHWAY NO. IH-2,
						ETC.

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DATE:
FILE:

SUMMARY OF LARGE SIGNS TO BE REMOVED

PLAN SHEET NO.	SIGN NO.	TYPE OF MOUNT	SIGN TEXT	REMOVE LARGE RSDS ASSMS
1/53	1	GROUND MOUNT		SIGN ONLY
2/53	1	OVERHEAD		SIGN ONLY
3/53	1	OVERHEAD		SIGN ONLY
3/53	2	OVERHEAD		SIGN ONLY
3/53	3	OVERHEAD		SIGN ONLY
4/53	1	OVERHEAD		SIGN ONLY
4/53	2	OVERHEAD		SIGN ONLY
4/53	3	OVERHEAD		SIGN ONLY

PLAN SHEET NO.	SIGN NO.	TYPE OF MOUNT	SIGN TEXT	REMOVE LARGE RSDS ASSMS
4/53	4	OVERHEAD		SIGN ONLY
4/53	5	OVERHEAD		SIGN ONLY
5/53	1	OVERHEAD		SIGN ONLY
6/53	1	OVERHEAD		SIGN ONLY
6/53	2	GROUND MOUNT		SIGN ONLY
6/53	3	OVERHEAD		SIGN ONLY
6/53	4	OVERHEAD		SIGN ONLY
6/53	5	GROUND MOUNT		SIGN ONLY
7/53	1	GROUND MOUNT		SIGN ONLY

PLAN SHEET NO.	SIGN NO.	TYPE OF MOUNT	SIGN TEXT	REMOVE LARGE RSDS ASSMS
8/53	1	OVERHEAD		SIGN ONLY
9/53	1	GROUND MOUNT		SIGN ONLY
10/53	1	OVERHEAD		SIGN ONLY
10/53	2	OVERHEAD		SIGN ONLY
11/53	1	GROUND MOUNT		SIGN ONLY
12/53	1	GROUND MOUNT		SIGN ONLY

IH-69E SHEET 1 OF 4

SUMMARY OF LARGE SIGNS TO BE REMOVED

© TxDOT 2020			
DL-1-LSJ	REVISIONS		
DL-1-GV	11-93	1-04	
DL-1-LSJ	8-95	9-08	
DL-1-GV	5-01		
CONT	SECT	JOB	HIGHWAY
6353	00	001	IH-2, ETC.
DIST	COUNTY	SHEET NO.	
PHR	HIDALGO, ETC.	188	

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DATE:
FILE:

SUMMARY OF LARGE SIGNS TO BE REMOVED

PLAN SHEET NO.	SIGN NO.	TYPE OF MOUNT	SIGN TEXT	REMOVE LARGE RDS ASSMS
12/53	2	OVERHEAD		SIGN ONLY
13/53	1	OVERHEAD		SIGN ONLY
14/53	1	GROUND MOUNT		SIGN ONLY
14/53	2	GROUND MOUNT		✕
15/53	1	OVERHEAD		SIGN ONLY
15/53	2	OVERHEAD		SIGN ONLY
15/53	3	OVERHEAD		SIGN ONLY
16/53	1	OVERHEAD		SIGN ONLY

PLAN SHEET NO.	SIGN NO.	TYPE OF MOUNT	SIGN TEXT	REMOVE LARGE RDS ASSMS
17/53	1	OVERHEAD		SIGN ONLY
17/53	2	OVERHEAD		SIGN ONLY
18/53	1	GROUND MOUNT		SIGN ONLY
19/53	1	GROUND MOUNT		SIGN ONLY
20/53	1	OVERHEAD		SIGN ONLY
21/53	1	GROUND MOUNT		SIGN ONLY
22/53	1	OVERHEAD		SIGN ONLY
23/53	1	GROUND MOUNT		SIGN ONLY

PLAN SHEET NO.	SIGN NO.	TYPE OF MOUNT	SIGN TEXT	REMOVE LARGE RDS ASSMS
23/53	2	GROUND MOUNT		SIGN ONLY
24/53	1	OVERHEAD		SIGN ONLY
24/53	2	OVERHEAD		SIGN ONLY
25/53	1	OVERHEAD		SIGN ONLY
25/53	2	GROUND MOUNT		SIGN ONLY
26/53	1	GROUND MOUNT		SIGN ONLY

IH-69E SHEET 2 OF 4

SUMMARY OF LARGE SIGNS TO BE REMOVED

© TxDOT 2020			
DL-1-LSJ	11-93	REVISIONS	
DL-1-GV	8-95	1-04	
DL-1-LSJ	5-01	9-08	
DL-1-GV			
CONT	SECT	JOB	HIGHWAY
6353	00	001	IH-2, ETC.
DIST	COUNTY	SHEET NO.	
PHR	HIDALGO, ETC.	189	

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SUMMARY OF LARGE SIGNS TO BE REMOVED

PLAN SHEET NO.	SIGN NO.	TYPE OF MOUNT	SIGN TEXT	REMOVE LARGE RSDS ASSMS
26/53	2	OVERHEAD		SIGN ONLY
26/53	3	GROUND MOUNT		SIGN ONLY
27/53	1	OVERHEAD		SIGN ONLY
28/53	1	OVERHEAD		SIGN ONLY
29/53	1	OVERHEAD		SIGN ONLY
30/53	1	OVERHEAD		SIGN ONLY
31/53	1	OVERHEAD		SIGN ONLY

PLAN SHEET NO.	SIGN NO.	TYPE OF MOUNT	SIGN TEXT	REMOVE LARGE RSDS ASSMS
32/53	1	OVERHEAD		SIGN ONLY
32/53	2	OVERHEAD		SIGN ONLY
33/53	1	GROUND MOUNT		SIGN ONLY
33/53	2	OVERHEAD		SIGN ONLY
34/53	1	OVERHEAD		SIGN ONLY
35/53	1	OVERHEAD		SIGN ONLY
36/53	1	OVERHEAD		SIGN ONLY

PLAN SHEET NO.	SIGN NO.	TYPE OF MOUNT	SIGN TEXT	REMOVE LARGE RSDS ASSMS
37/53	1	OVERHEAD		SIGN ONLY
37/53	2	OVERHEAD		SIGN ONLY
37/53	3	OVERHEAD		SIGN ONLY
38/53	1	OVERHEAD		SIGN ONLY
38/53	2	OVERHEAD		SIGN ONLY
38/53	3	OVERHEAD		SIGN ONLY

IH-69E SHEET 3 OF 4

SUMMARY OF LARGE SIGNS TO BE REMOVED

© TxDOT 2020			
DN-1-LSJ	11-93	REVISIONS	1-04
CK-1-GV	8-95		9-08
DN-1-LSJ	5-01		
CK-1-GV			
CONT	SECT	JOB	HIGHWAY
6353	00	001	IH-2, ETC.
DIST	COUNTY	SHEET NO.	
PHR	HIDALGO, ETC.	190	

DATE:
FILE:

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DATE:
FILE:

SUMMARY OF LARGE SIGNS TO BE REMOVED

PLAN SHEET NO.	SIGN NO.	TYPE OF MOUNT	SIGN TEXT	REMOVE LARGE RSD ASSMS
39/53	1	OVERHEAD		SIGN ONLY
40/53	1	OVERHEAD		SIGN ONLY
41/53	1	GROUND MOUNT		✕
42/53	1	GROUND MOUNT		SIGN ONLY
43/53	1	GROUND MOUNT		SIGN ONLY
44/53	1	GROUND MOUNT		SIGN ONLY
45/53	1	GROUND MOUNT		SIGN ONLY
46/53	1	GROUND MOUNT		SIGN ONLY

PLAN SHEET NO.	SIGN NO.	TYPE OF MOUNT	SIGN TEXT	REMOVE LARGE RSD ASSMS
47/53	1	GROUND MOUNT		SIGN ONLY
48/53	1	GROUND MOUNT		SIGN ONLY
49/53	1	OVERHEAD		SIGN ONLY
50/53	1	GROUND MOUNT		SIGN ONLY
51/53	1	GROUND MOUNT		SIGN ONLY
52/53	1	OVERHEAD		SIGN ONLY
53/53	1	OVERHEAD		SIGN ONLY

IH-69E SHEET 4 OF 4

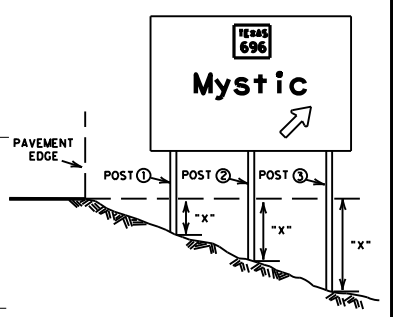
SUMMARY OF LARGE SIGNS TO BE REMOVED

© TxDOT 2020			
DN-1-LSJ	REVISIONS		
CR-1-GV	11-93	1-04	
DN-1-LSJ	8-95	9-08	
CR-1-GV	5-01		
CONT	SECT	JOB	HIGHWAY
6353	00	001	IH-2, ETC.
DIST	COUNTY		SHEET NO.
PHR	HIDALGO, ETC.		191

DATE: September 11, 2020
 FILE: T:\PHRTRFOP\Projects\RM (Large Sign Project) 2020\Leos\H 69E\SUM Large Signs Instal\IH69E.dgn
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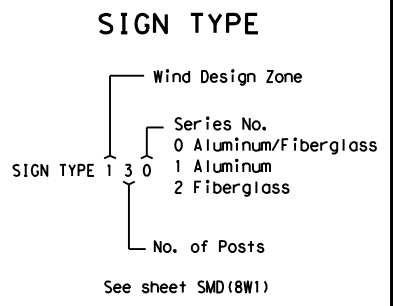
SUMMARY OF LARGE SIGNS

PLAN SHEET NO.	SIGN NO.	SIGN BACK-GROUND COLOR	SIGN TEXT	SIGN DIMENSIONS	PLAQUES, & OTHER ATTACHMENTS		BACKGROUND SUBSTRATE (SQ FT)		TYPE OF MOUNT	"X" DIMENSION			GALVANIZED STRUCTURAL STEEL				DRILLED SHAFT				RIP RAP CY		
					DIRECT APPLY	* ALUMINUM (TYPE A)	GROUND MOUNT (TYPE G)	OVERHEAD (TYPE O)		post ①	post ②	post ③	SIZE	post ①	post ②	post ③	TOTAL WEIGHT LBS.	NON-REINF 12"φ	LINEAR FEET REINFORCED 24"φ	30"φ		36"φ	
1/53	1	GREEN		7.5' X 2.5' 3.0' X 3.0' 24.5' X 13.0'			18.75																
			(N. B.)																				
2/53	1	GREEN		7.5' X 2.5' 3.0' X 3.0' 22.0' X 12.5'			18.75																
			(N. B.)																				
3/53	1	GREEN		7.5' X 2.5' 3.0' X 3.0' 13.0' X 10.0' 13.0' X 2.75'			18.75																
			(S. B.)																				
3/53	2	GREEN		3.0' X 3.0' 6.0' X 2.5' 3.0' X 3.0' 20.0' X 9.5'		9.0		15.0															
			(N. B.)																				
3/53	3	GREEN		23.5' X 10.5'			246.75																
			(N. B.)																				
4/53	1	GREEN		7.5' X 2.5' 3.0' X 3.0' 14.0' X 10.0' 14.0' X 2.75'			18.75																
			(S. B.)																				
4/53	2	GREEN		7.5' X 2.5' 14.50' X 8.5' 14.50' X 2.75'			18.75																
			(S. B.)																				
4/53	3	GREEN		3.0' X 3.0' 6.0' X 2.5' 3.0' X 3.0' 20.5' X 10.0' 20.5' X 2.75'		9.0		15.0															
			(N. B.)																				
4/53	4	GREEN		6.0' X 2.5' 16.0' X 8.0'			15.0																
			(N. B.)																				
PAGE TOTALS							18.00	337.25	1,558.00														
PAGE TOTALS													2,479.40										



The "x" dimension is the elevation difference at the post between the ground and the edge of pavement or top of curb.
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 The post lengths listed here are approximations. The corrected post lengths will be furnished by the Contractor after the stud posts are placed.
 Tower heights shall be verified with the Engineer before fabrication.

* This column is for aluminum Type A and not direct apply. Direct apply is subsidiary to the sign.



SUMMARY OF LARGE SIGNS

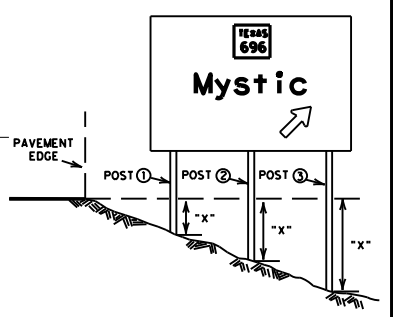
SOLS IH-69E

© TxDOT 2020		REVISIONS	
DN: CBR	11-93	1-04	
CK: GV	8-95	9-08	
DN: CBR	5-01		
CK: GV			
SHEET 1 OF 10			
CONT	SECT	JOB	HIGHWAY
6353	00	001	IH 2, ETC.
DIST	COUNTY	SHEET NO.	
21	HIDALGO, ETC.	192	

DATE: September 11, 2020
 FILE: T:\PHRTRF\Projects\RM (Large Sign Project) 2020\Leos\IH 69E\SUM Large Signs Install\1469E.dgn
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SUMMARY OF LARGE SIGNS

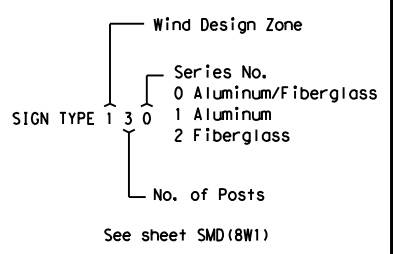
PLAN SHEET NO.	SIGN NO.	SIGN BACK-GROUND COLOR	SIGN TEXT	SIGN DIMENSIONS	PLAQUES, & OTHER ATTACHMENTS		BACKGROUND SUBSTRATE (SQ FT)		TYPE OF MOUNT	"X" DIMENSION @			GALVANIZED STRUCTURAL STEEL				DRILLED SHAFT				RIP RAP CY
					DIRECT APPLY	* ALUMINUM (TYPE A)	GROUND MOUNT (TYPE G)	OVERHEAD (TYPE O)		post ①	post ②	post ③	SIZE	post ①	post ②	post ③	TOTAL WEIGHT LBS.	NON-REINF 12"φ	LINEAR FEET REINFORCED 24"φ 30"φ 36"φ		
4/53	5	GREEN		6.0' X 2.5' 3.0' X 3.0' 20.50' X 2.75' 20.50' X 10.0'				15.0													
			(N. B.)					205.0					S4X7.7	10.0	10.0	10.0	10.0	385.00			
5/53	1	GREEN		7.5' X 2.5' 16.50' X 2.75' 16.50' X 8.5'				18.75													
			(N. B.)					140.25					S4X7.7	8.5	8.5	8.5		196.35			
6/53	1	GREEN		7.5' X 2.5' 14.5' X 8.0'				18.75													
			(S. B.)					116.0					S4X7.7	8.0	8.0	8.0		184.80			
6/53	2	GREEN		7.5' X 2.5' 13.50' X 2.75' 13.50' X 6.5'				18.75													
			(S. B.)					87.75					S4X7.7	6.5	6.5	6.5		150.15			
6/53	3	BLUE GREEN		3.0' X 3.0' 6.0' X 2.5' 3.0' X 3.0' 4.0' X 3.0' 23.0' X 14.5'		9.0															
			(N. B.)					12.0					S4X7.7	14.5	14.5	14.5	14.5	558.25			
6/53	4	GREEN		6.0' X 2.5' 16.50' X 2.75' 16.50' X 9.0'				15.0													
			(N. B.)					148.5					S4X7.7	9.0	9.0	9.0	9.0	277.20			
6/53	5	BLUE		10.0' X 5.0'				50.00													
			(N. B.)																		
7/53	1	BLUE		19.5' X 11.0'				214.5													
			(N. B.)																		
8/53	1	GREEN		20.5' X 9.0' 20.50' X 2.75'				184.5													
			(N. B.)					56.375					S4X7.7	9.0	9.0	9.0	9.0	277.20			
9/53	1	GREEN		15.0' X 8.0'				120.0													
			(S. B.)																		



The "X" dimension is the elevation difference at the post between the ground and the edge of pavement or top of curb.
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 Tower heights shall be verified with the Engineer before fabrication.

* This column is for aluminum Type A and not direct apply. Direct apply is subsidiary to the sign.

SIGN TYPE



SUMMARY OF LARGE SIGNS

SOLS IH-69E

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DN: CBR	11-93	1-04	
CK: GV	8-95	9-08	
DN: CBR	5-01		
CK: GV			
SHEET 2 OF 10			
CONT	SECT	JOB	HIGHWAY
6353	00	001	IH 2, ETC.
DIST	COUNTY	SHEET NO.	
21	HIDALGO, ETC.	193	

PAGE TOTALS 9.00 384.50 1,313.75

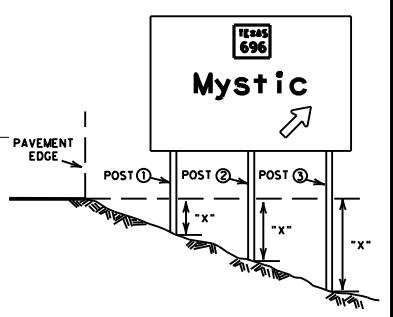
PAGE TOTALS 2,028.95

DATE: September 11, 2020
 FILE: T:\PHRTRFOP\Projects\RM (Large Sign Project) 2020\Leos\H 69E\SUM Large Signs Install\1469E.dgn

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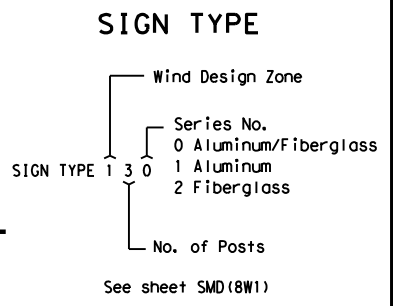
SUMMARY OF LARGE SIGNS

PLAN SHEET NO.	SIGN NO.	SIGN BACK-GROUND COLOR	SIGN TEXT	SIGN DIMENSIONS	PLAQUES, & OTHER ATTACHMENTS		BACKGROUND SUBSTRATE (SQ FT)		TYPE OF MOUNT	"X" DIMENSION			GALVANIZED STRUCTURAL STEEL				DRILLED SHAFT			RIP RAP CY			
					DIRECT APPLY	* ALUMINUM (TYPE A)	GROUND MOUNT (TYPE G)	OVERHEAD (TYPE O)		post 1	post 2	post 3	SIZE	post 1	post 2	post 3	TOTAL WEIGHT LBS.	NON-REINF 12"φ	LINEAR FEET REINFORCED 24"φ 30"φ 36"φ				
10/53	1	BLUE GREEN		3.0' X 3.0' 6.0' X 2.5' 3.0' X 3.0' 4.0' X 3.0' 23.0' X 14.5'		9.0																	
			(S. B.)																				
10/53	2	GREEN		6.0' X 2.5' 12.0' X 7.0'				15.0 84.0															
			(S. B.)																				
11/53	1	GREEN		13.0' X 7.5'			91.5																
			(N. B.)																				
12/53	1	GREEN		6.0' X 2.5' 5.33' X 3.0' 15.5' X 12.0'		15.99	15.0 186.0																
			(S. B.)																				
12/53	2	GREEN		6.0' X 2.5' 18.0' X 10.0'			15.0 180.0																
			(S. B.)																				
13/53	1	GREEN		6.0' X 2.5' 16.5' X 6.5'			15.0 107.25																
			(N. B.)																				
14/53	1	GREEN		6.0' X 2.5' 17.0' X 5.5'			15.0 107.25																
			(S. B.)																				
14/53	2	GREEN		8.5' X 2.5' 3.75' X 3.0' 3.5' X 3.0' 3.0' X 3.0' 17.5' X 15.0'		11.25 10.50 9.00	21.25 262.5		121	0.5	1.0		W10x26	22.5	23.0		1,279.0		20.0		2.4		
			(N. B.)																				
15/53	1	GREEN		8.5' X 2.5' 3.0' X 3.0' 3.7' X 3.0' 15.0' X 13.5'		9.0 11.0	21.25 202.50																
			(S. B.)																				
PAGE TOTALS							9.00	698.50	985.50														
PAGE TOTALS													2,768.95		20.0				2.4				



⊙ The "x" dimension is the elevation difference at the post between the ground and the edge of pavement or top of curb.
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* This column is for aluminum Type A and not direct apply. Direct apply is subsidiary to the sign.



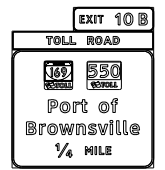
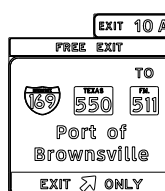






SUMMARY OF LARGE SIGNS SOLS IH-69E

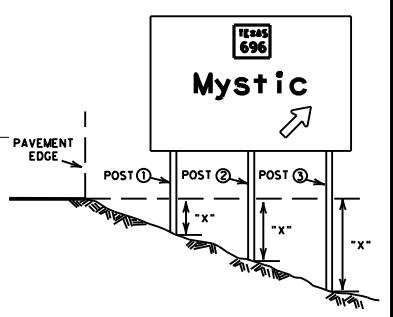
© TxDOT 2020		REVISIONS	
DN: CBR	11-93	1-04	
CK: GV	8-95	9-08	
DN: CBR	5-01		
CK: GV			
SHEET 3 OF 10			
CONT	SECT	JOB	HIGHWAY
6353	00	001	IH 2, ETC.
DIST	COUNTY	SHEET NO.	
21	HIDALGO, ETC.	194	

DATE: September 11, 2020
 FILE: T:\PHRTRFOP\Projects\RM (Large Sign Project) 2020\Leos\IH 69E\Sum Large Signs Install\IH69E.dgn

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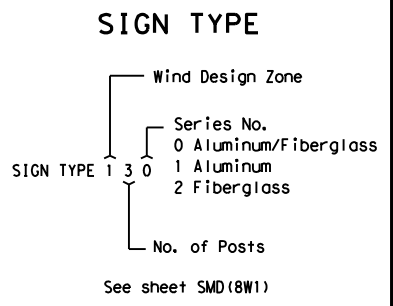
SUMMARY OF LARGE SIGNS

PLAN SHEET NO.	SIGN NO.	SIGN BACK-GROUND COLOR	SIGN TEXT	SIGN DIMENSIONS	PLAQUES, & OTHER ATTACHMENTS		BACKGROUND SUBSTRATE (SQ FT)		TYPE OF MOUNT	"X" DIMENSION			GALVANIZED STRUCTURAL STEEL				DRILLED SHAFT				RIP RAP CY			
					DIRECT APPLY	* ALUMINUM (TYPE A)	GROUND MOUNT (TYPE G)	OVERHEAD (TYPE O)		post ①	post ②	post ③	SIZE	LINEAR FEET post ①	LINEAR FEET post ②	LINEAR FEET post ③	TOTAL WEIGHT LBS.	NON-REINF 12"φ	LINEAR FEET REINFORCED 24"φ	30"φ		36"φ		
15/53	2	GREEN		8.5' X 2.5' 15.0' X 2.0' 3.0' X 3.0' 3.7' X 3.0' 15.0' X 12.5'				21.25 30.00																
			(S. B.)																					
15/53	3	GREEN		8.5' X 2.5' 17.5' X 2.0' 3.75' X 3.0' 3.5' X 3.0' 3.0' X 3.0' 17.50' X 2.75' 17.5' X 15.0'				21.25 35.0 11.25 10.50 9.00 48.125 262.5																
			(N. B.)																					
16/53	1	GREEN		7.0' X 2.5' 4.0' X 3.0' 17.50' X 2.75' 17.5' X 10.5'				17.50 12.00 48.125 183.75																
			(N. B.)																					
17/53	1	GREEN		8.5' X 2.5' 15.0' X 2.0' 3.7' X 3.0' 3.5' X 3.0' 15.0' X 12.5'				21.25 30.0 11.00 10.50 187.5																
			(S. B.)																					
17/53	2	GREEN		8.5' X 2.5' 16.0' X 2.0' 3.7' X 3.0' 3.5' X 3.0' 3.0' X 3.0' 16.0' X 14.0'				21.25 32.0 11.00 10.50 9.00 224.0																
			(S. B.)																					
18/53	1	GREEN		8.5' X 2.5' 16.0' X 2.0' 3.75' X 3.0' 3.5' X 3.0' 3.0' X 3.0' 16.0' X 14.0'				21.25 32.0 11.25 10.50 9.00 224.0																
			(S. B.)																					
19/53	1	GREEN		7.0' X 2.5' 4.0' X 3.0' 17.0' X 10.0'				17.50 12.0 170.0																
			(S. B.)																					
20/53	1	GREEN		7.0' X 2.5' 15.00' X 2.75' 15.0' X 6.5'				17.50 41.25 97.50																
			(S. B.)																					
PAGE TOTALS								00.00	464.75	1,389.75														
PAGE TOTALS													1,824.90											



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* This column is for aluminum Type A and not direct apply. Direct apply is subsidiary to the sign.



SUMMARY OF LARGE SIGNS
SOLS IH-69E

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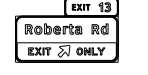
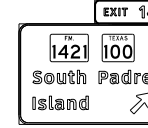







DN: CBR	REVISIONS
CV	11-93 1-04
CBR	8-95 9-08
CV	5-01

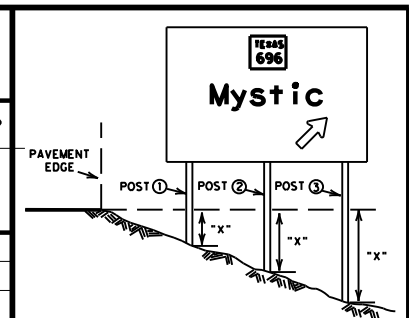
SHEET 4 OF 10

CONT	SECT	JOB	HIGHWAY
6353	00	001	IH 2, ETC.
DIST	COUNTY	SHEET NO.	
21	HIDALGO, ETC.	195	

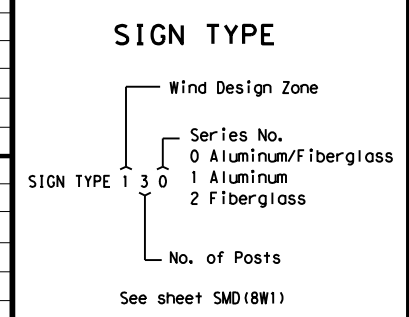
September 11, 2020
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SUMMARY OF LARGE SIGNS

PLAN SHEET NO.	SIGN NO.	SIGN BACK-GROUND COLOR	SIGN TEXT	SIGN DIMENSIONS	PLAQUES, & OTHER ATTACHMENTS		BACKGROUND SUBSTRATE (SQ FT)		TYPE OF MOUNT	"X" DIMENSION @			GALVANIZED STRUCTURAL STEEL				DRILLED SHAFT			RIP RAP CY	
					DIRECT APPLY	* ALUMINUM (TYPE A)	GROUND MOUNT (TYPE G)	OVERHEAD (TYPE O)		post ①	post ②	post ③	SIZE	LINEAR FEET post ①	post ②	post ③	TOTAL WEIGHT LBS.	NON-REINF 12"φ	LINEAR FEET REINFORCED 24"φ 30"φ 36"φ		
21/53	1	GREEN		7.0' X 2.5' 4.16' X 3.0' 3.50' X 3.0' 16.0' X 12.0'			17.50														
			(N. B.)																		
22/53	1	GREEN		7.0' X 2.5' 14.50' X 2.75' 14.5' X 6.5'			17.50														
			(S. B.)																		
23/53	1	GREEN		7.0' X 2.5' 4.16' X 3.0' 3.50' X 3.0' 16.0' X 11.0'			17.50														
			(N. B.)																		
23/53	2	GREEN		7.0' X 2.5' 15.0' X 6.0'			17.50														
			(S. B.)																		
24/53	1	GREEN		13.0' X 7.0'			91.0														
			(S. B.)																		
24/53	2	GREEN		7.5' X 2.5' 16.0' X 7.0'			18.75														
			(N. B.)																		
25/53	1	GREEN		7.0' X 2.5' 3.0' X 3.0' 15.00' X 2.75' 15.0' X 10.5'			17.50														
			(N. B.)																		
25/53	2	GREEN		7.0' X 2.5' 3.0' X 3.0' 15.0' X 9.5'			17.50														
			(N. B.)																		
26/53	1	GREEN		7.0' X 2.5' 4.00' X 3.00' 3.5' X 3.0' 14.5' X 9.5'			17.50														
			(N. B.)																		
26/53	2	GREEN		7.5' X 2.5' 3.0' X 3.0' 15.00' X 2.75' 15.0' X 10.50'			17.50														
			(N. B.)																		
PAGE TOTALS																					
					00.00	1,047.50	461.75	PAGE TOTALS					635.25								



@ The "x" dimension is the elevation difference at the post between the ground and the edge of pavement or top of curb.
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 Tower heights shall be verified with the Engineer before fabrication.
 * This column is for aluminum Type A and not direct apply. Direct apply is subsidiary to the sign.



SUMMARY OF LARGE SIGNS

SOLS IH-96E

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DN: CBR	REVISIONS	
CK: GV	11-93	1-04
DN: CBR	8-95	9-08
CK: GV	5-01	

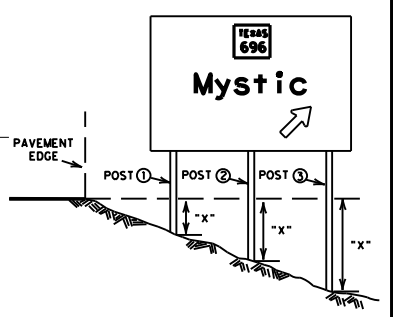
SHEET 5 OF 10

CONT	SECT	JOB	HIGHWAY
6353	00	001	IH 2, ETC.
DIST	COUNTY	SHEET NO.	
21	HIDALGO, ETC.	196	

September 11, 2020
 T:\PHRTRF\Projects\RM (Large Sign Project) 2020\Leos\IH 69E\SUM Large Signs Install\1469E.dgn
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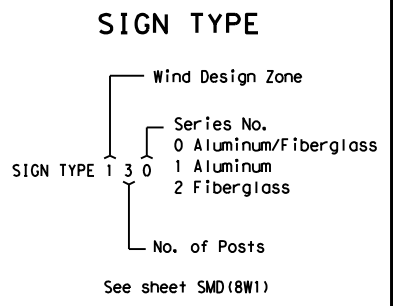
SUMMARY OF LARGE SIGNS

PLAN SHEET NO.	SIGN NO.	SIGN BACK-GROUND COLOR	SIGN TEXT	SIGN DIMENSIONS	PLAQUES, & OTHER ATTACHMENTS		BACKGROUND SUBSTRATE (SQ FT)		TYPE OF MOUNT	"X" DIMENSION @			GALVANIZED STRUCTURAL STEEL					DRILLED SHAFT				RIP RAP CY
					DIRECT APPLY	* ALUMINUM (TYPE A)	GROUND MOUNT (TYPE G)	OVERHEAD (TYPE O)		post ①	post ②	post ③	SIZE	post ①	post ②	post ③	TOTAL WEIGHT LBS.	NON-REINF 12"φ	LINEAR FEET REINFORCED			
26/53	3	GREEN	EXIT 16	5.0' X 7.5'			37.50															
27/53	1	GREEN	EXIT 19A McCulloch St EXIT ONLY	8.5' X 2.5' 17.00' X 2.75' 17.00' X 6.5'		46.75		21.25					S4X7.7	6.5	6.5	6.5	150.15					
28/53	1	GREEN	EXIT 19B 345 2520 Sam Houston Blvd McCulloch St EXIT ONLY	8.5' X 2.5' 4.08' X 3.0' 5.33' X 3.0' 22.50' X 2.75' 22.5' X 12.5'		12.25 15.99 61.875		21.25					S4X7.7	12.5	12.5	12.5	481.25					
29/53	1	GREEN	EXIT 19B 345 2520 Sam Houston Blvd McCulloch St EXIT ONLY	8.5' X 2.5' 4.08' X 3.0' 5.33' X 3.0' 22.50' X 2.75' 22.5' X 12.5'		12.25 15.99 61.875		21.25					S4X7.7	12.5	12.5	12.5	481.25					
30/53	1	BLUE GREEN	EXIT 22 509 Paso Real Highway 1/2 MILE	3.0' X 3.0' 7.0' X 2.5' 4.0' X 3.0' 13.5' X 12.0'		9.00 12.00		17.50					S4X7.7	12.0	12.0	12.0	277.20					
31/53	1	GREEN	EXIT 21 486 Williams Rd Ratliff St EXIT ONLY	7.0' X 2.5' 4.08' X 3.0' 15.50' X 2.75' 15.5' X 12.5'		12.25 42.625		17.50					S4X7.7	12.5	12.5	12.5	288.75					
32/53	2	BLUE GREEN	EXIT 22 509 Paso Real Highway EXIT ONLY	3.0' X 3.0' 7.0' X 2.5' 4.08' X 3.0' 14.00' X 2.75' 14.0' X 12.5'		12.25 38.50		17.50					S4X7.7	12.5	12.5	12.5	288.75					
32/53	1	BLUE GREEN	EXIT 22 509 Paso Real Highway EXIT ONLY	3.0' X 3.0' 7.0' X 2.5' 4.08' X 3.0' 13.50' X 2.75' 13.5' X 12.5'		12.25 37.125		17.50					S4X7.7	12.5	12.5	12.5	288.75					
PAGE TOTALS							27.00	37.50	1,506.25													



The "x" dimension is the elevation difference at the post between the ground and the edge of pavement or top of curb.
 Sign supports shall be located as shown on the plans, except that the Engineer may shift the sign supports, within design guidelines, where necessary to secure a more desirable location or to avoid conflict with utilities. Unless otherwise shown on the plans, the Contractor shall stake and the Engineer will verify all sign support locations.
 The post lengths listed here are approximations. The corrected post lengths will be furnished by the Contractor after the stud posts are placed.
 Tower heights shall be verified with the Engineer before fabrication.

* This column is for aluminum Type A and not direct apply. Direct apply is subsidiary to the sign.

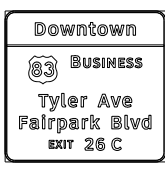
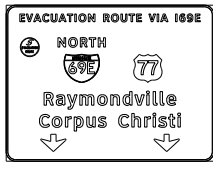

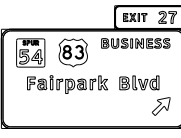


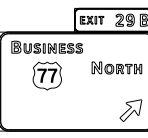
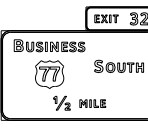


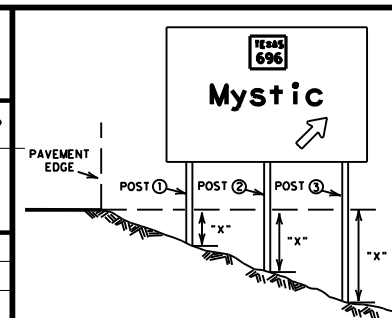
SUMMARY OF LARGE SIGNS SOLS IH-69E

© TxDOT 2020		REVISIONS	
DN: CBR	11-93	1-04	
CK: GV	8-95	9-08	
DN: CBR	5-01		
CK: GV			
SHEET 6 OF 10			
CONT	SECT	JOB	HIGHWAY
6353	00	001	IH 2, ETC.
DIST	COUNTY	SHEET NO.	
21	HIDALGO, ETC.	197	

September 11, 2020
 T:\PHRTRF\Projects\RM (Large Sign Project) 2020\Leop\H 69E\Sum Large Signs Install\IH69E.dgn
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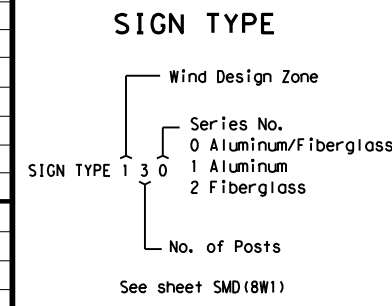
SUMMARY OF LARGE SIGNS

PLAN SHEET NO.	SIGN NO.	SIGN BACK-GROUND COLOR	SIGN TEXT	SIGN DIMENSIONS	PLAQUES, & OTHER ATTACHMENTS		BACKGROUND SUBSTRATE (SQ FT)		TYPE OF MOUNT	"X" DIMENSION			GALVANIZED STRUCTURAL STEEL				DRILLED SHAFT				RIP RAP CY
					DIRECT APPLY	* ALUMINUM (TYPE A)	GROUND MOUNT (TYPE G)	OVERHEAD (TYPE O)		post 1	post 2	post 3	SIZE	LINEAR FEET			TOTAL WEIGHT LBS.	NON-REINF 12"φ	LINEAR FEET REINFORCED		
38/53	2	GREEN		3.0' X 3.0' 17.00' X 16.00'	9.00			272.00					S4X7.7	16.0	16.0	16.0	369.60				
38/53	3	GREEN		2.0' X 2.0' 3.75' X 3.0' 3.0' X 3.0' 22.0' X 16.5'	4.0 11.25 9.00			363.0					S4X7.7	16.5	16.5	16.5	635.25				
39/53	1	GREEN		7.0' X 2.5' 12.00' X 6.0'				17.50 72.00					S4X7.7	6.0	6.0	6.0	138.60				
40/53	1	GREEN		7.0' X 2.5' 3.0' X 3.0' 3.0' X 3.0' 19.50' X 10.50'		9.0 9.0		17.50 204.75					S4X7.7	10.5	10.5	10.5	323.40				
41/53	1	GREEN		12.50' X 7.50'				93.75	121	1.0	2.0		W6X12	15.50	16.50		464.60	16.00		1.9	
42/53	1	GREEN		7.0' X 2.5' 5.33' X 3.0' 14.50' X 11.00'		15.99		17.50 159.50													
43/53	1	GREEN		8.5' X 2.5' 3.0' X 3.0' 16.50' X 10.50'		9.0		21.25 173.25													
44/53	1	GREEN		7.0' X 2.5' 3.0' X 3.0' 16.50' X 9.50'		9.00		17.50 156.75													
PAGE TOTALS								00.00	639.50	946.75											



The "x" dimension is the elevation difference at the post between the ground and the edge of pavement or top of curb.
 Sign supports shall be located as shown on the plans, except that the Engineer may shift the sign supports, within design guidelines, where necessary to secure a more desirable location or to avoid conflict with utilities. Unless otherwise shown on the plans, the Contractor shall stake and the Engineer will verify all sign support locations.
 The post lengths listed here are approximations. The corrected post lengths will be furnished by the Contractor after the stud posts are placed.
 Tower heights shall be verified with the Engineer before fabrication.

* This column is for aluminum Type A and not direct apply. Direct apply is subsidiary to the sign.



SUMMARY OF LARGE SIGNS
SOLS IH-69E

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DN: CBR	REVISIONS
CK: GV	11-93 1-04
DN: CBR	8-95 9-08
CK: GV	5-01

SHEET 8 OF 10

CONTRACT NO.	SECT	JOB	HIGHWAY
6353	00	001	IH 2, ETC.
DIST	COUNTY	SHEET NO.	
21	HIDALGO, ETC.	199	

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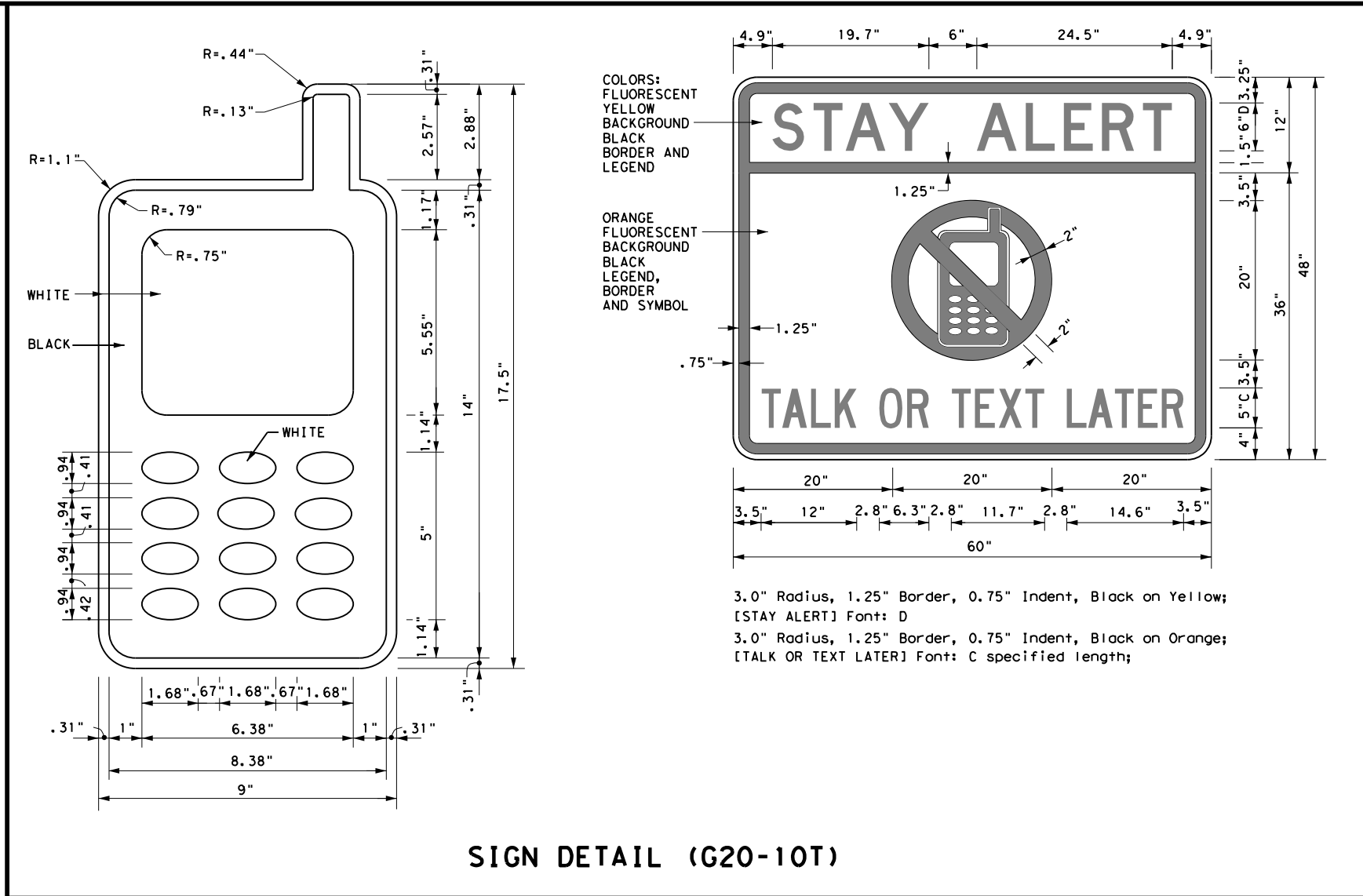
BARRICADE AND CONSTRUCTION (BC) STANDARD SHEETS GENERAL NOTES:

- 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.
- 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 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.
- 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.
- 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.
- 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.
- The Engineer has the final decision on the location of all traffic control devices.
- 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.

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 FILE: \$FILES\$
 \$TIMES\$



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

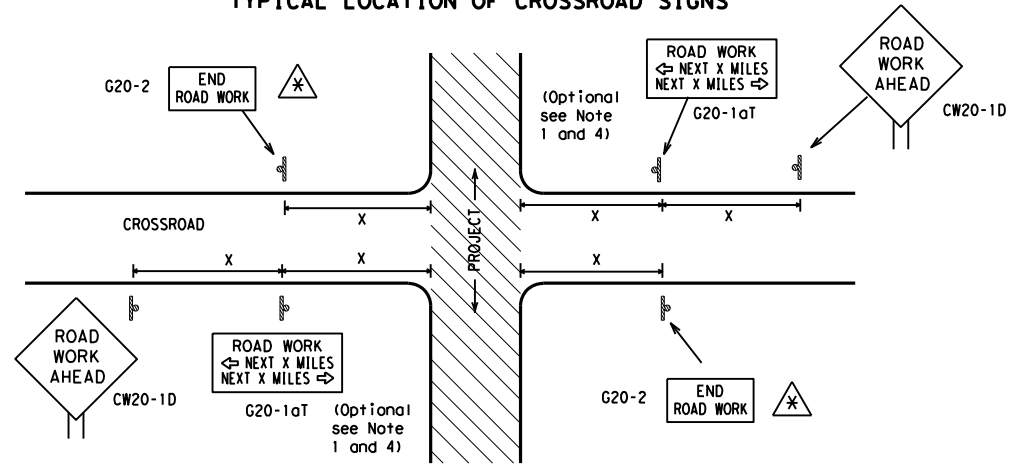
THE DOCUMENTS BELOW CAN BE FOUND ON-LINE AT http://www.txdot.gov
COMPLIANT WORK ZONE TRAFFIC CONTROL DEVICES LIST (CWZTCD)
DEPARTMENTAL MATERIAL SPECIFICATIONS (DMS)
MATERIAL PRODUCER LIST (MPL)
ROADWAY DESIGN MANUAL - SEE "MANUALS (ONLINE MANUALS)"
STANDARD HIGHWAY SIGN DESIGNS FOR TEXAS (SHSD)
TEXAS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

SHEET 1 OF 12

		<i>Traffic Operations Division Standard</i>
BARRICADE AND CONSTRUCTION GENERAL NOTES AND REQUIREMENTS		
BC (1) - 14		
FILE: bc-14.dgn	DN: TxDOT	CK: TxDOT
© TxDOT November 2002	CONT: 6353	SECT: 00
REVISIONS	DATE	BY
4-03	5-10	8-14
9-07	7-13	
DIST: 21	COUNTY: HIDALGO, ETC.	SHEET NO.: 202

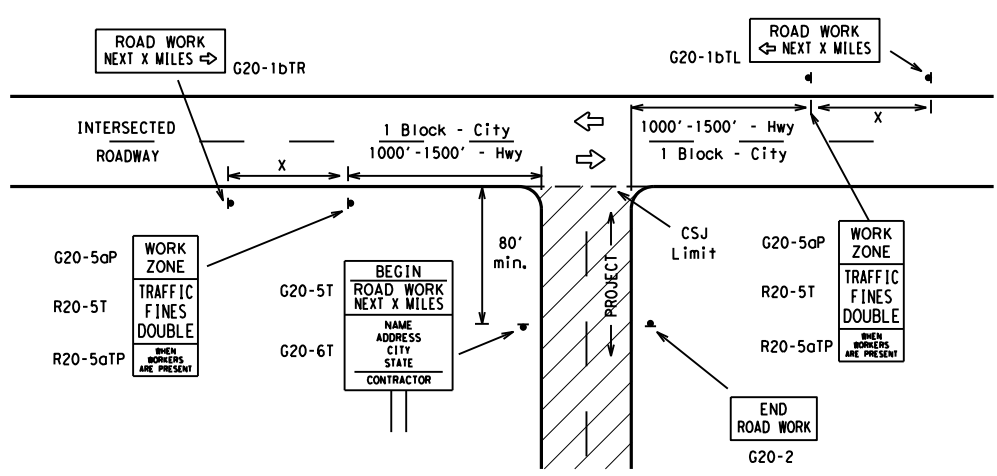
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TYPICAL LOCATION OF CROSSROAD SIGNS



- ⚠ May be mounted on back of "ROAD WORK AHEAD" (CW20-1D) sign with approval of Engineer. (See note 2 below)
- The typical minimum signing on a crossroad approach should be a "ROAD WORK AHEAD" (CW20-1D) sign and a (G20-2) "END ROAD WORK" sign, unless noted otherwise in plans.
 - The Engineer may use the reduced size 36" x 36" ROAD WORK AHEAD (CW20-1D) sign mounted back to back with the reduced size 36" x 18" "END ROAD WORK" (G20-2) sign on low volume crossroads (see Note 4 under "Typical Construction Warning Sign Size and Spacing"). See the "Standard Highway Sign Designs for Texas" manual for sign details. The Engineer may omit the advance warning signs on low volume crossroads. The Engineer will determine whether a road is low volume. This information shall be shown in the plans.
 - Based on existing field conditions, the Engineer/Inspector may require additional signs such as FLAGGER AHEAD, LOOSE GRAVEL, or other appropriate signs. When additional signs are required, these signs will be considered part of the minimum requirements. The Engineer/Inspector will determine the proper location and spacing of any sign not shown on the BC sheets, Traffic Control Plan sheets or the Work Zone Standard Sheets.
 - The "ROAD WORK NEXT X MILES" (G20-1aT) sign shall be required at high volume crossroads to advise motorists of the length of construction in either direction from the intersection. The Engineer will determine whether a roadway is considered high volume.
 - Additional traffic control devices may be shown elsewhere in the plans for higher volume crossroads.
 - When work occurs in the intersection area, appropriate traffic control devices, as shown elsewhere in the plans or as determined by the Engineer/Inspector, shall be in place.

T-INTERSECTION



CSJ LIMITS AT T-INTERSECTION

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

TYPICAL CONSTRUCTION WARNING SIGN SIZE AND SPACING^{1,5,6}

Sign Number or Series	SIZE		SPACING	
	Conventional Road	Expressway/Freeway	Posted Speed MPH	Sign Spacing "X" Feet (Apprx.)
CW20 ⁴	48" x 48"	48" x 48"	30	120
CW21			35	160
CW22			40	240
CW23			45	320
CW25			50	400
CW1, CW2, CW7, CW8, CW9, CW11, CW14	36" x 36"	48" x 48"	55	500 ²
CW3, CW4, CW5, CW6, CW8-3, CW10, CW12	48" x 48"	48" x 48"	60	600 ²
			65	700 ²
			70	800 ²
			75	900 ²
			80	1000 ²
			*	* ³

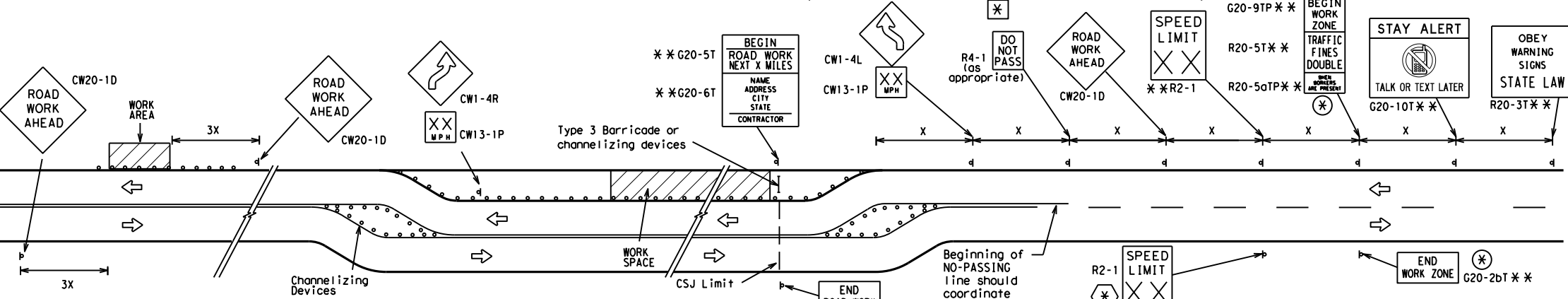
* For typical sign spacings on divided highways, expressways and freeways, see Part 6 of the "Texas Manual on Uniform Traffic Control Devices" (TMUTCD) typical application diagrams or TCP Standard Sheets.

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

GENERAL NOTES

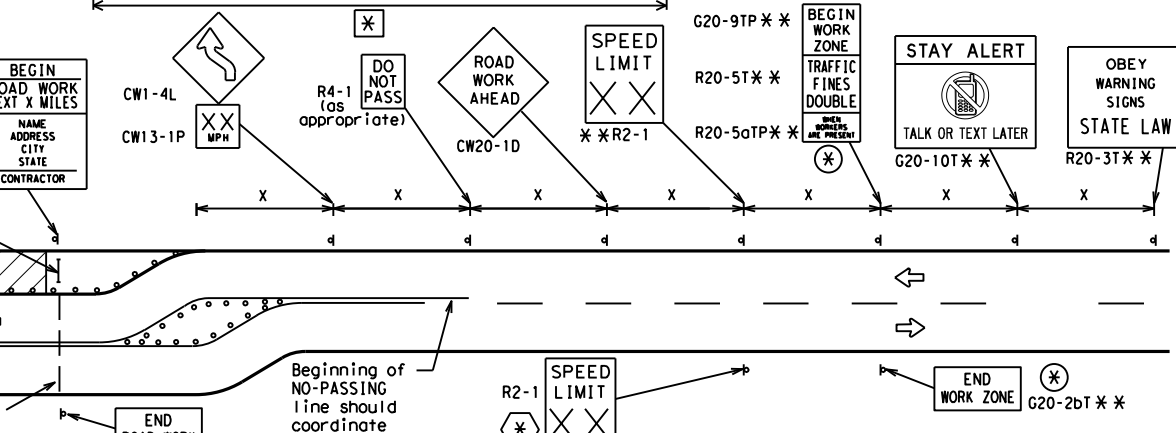
- Special or larger size signs may be used as necessary.
- Distance between signs should be increased as required to have 1500 feet advance warning.
- Distance between signs should be increased as required to have 1/2 mile or more advance warning.
- 36" x 36" "ROAD WORK AHEAD" (CW20-1D) signs may be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

WORK AREAS IN MULTIPLE LOCATIONS WITHIN CSJ LIMITS

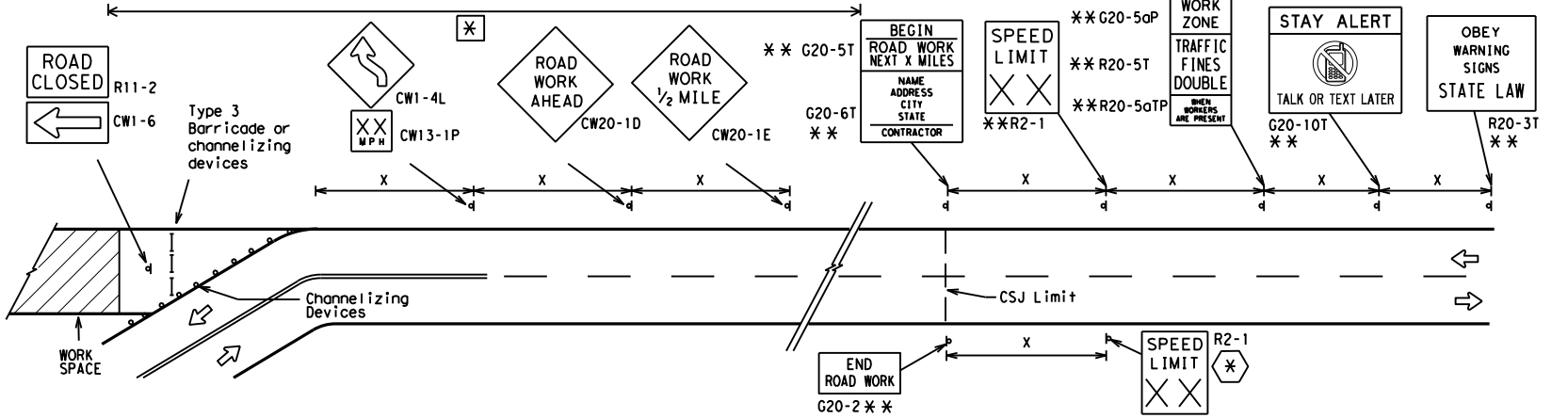


When extended distances occur between minimal work spaces, the Engineer/Inspector should ensure additional "ROAD WORK AHEAD" (CW20-1D) signs are placed in advance of these work areas to remind drivers they are still within the project limits. See the applicable TCP sheets for exact location and spacing of signs and channelizing devices.

SAMPLE LAYOUT OF SIGNING FOR WORK BEGINNING AT THE CSJ LIMITS



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



NOTES

- The Contractor shall determine the appropriate distance to be placed on the G20-1 series signs and "BEGIN ROAD WORK NEXT X MILES" (G20-5T) sign for each specific project. This distance shall replace the "X" and shall be rounded to the nearest whole mile with the approval of the Engineer. No decimals shall be used.
- ⊗ The "BEGIN WORK ZONE" (G20-9TP) and "END WORK ZONE" (G20-2bT) shall be used as shown on the sample layout when advance signs are required outside the CSJ Limits. They inform the motorist of entering or leaving a part of the work zone lying outside the CSJ Limits where traffic fines may double if workers are present.
- ** Required CSJ Limit signing. See Note 10 on BC(1). TRAFFIC FINES DOUBLE signs will not be required on projects consisting solely of mobile operations work.
- ⊗ Area for placement of "ROAD WORK AHEAD" (CW20-1D) sign and other signs or devices as called for on the Traffic Control Plan.
- ⊗ Contractor will install a regulatory speed limit sign at the end of the work zone.

LEGEND

—	Type 3 Barricade
○ ○ ○	Channelizing Devices
⊗	Sign
X	See Typical Construction Warning Sign Size and Spacing chart or the TMUTCD for sign spacing requirements.

SHEET 2 OF 12

Texas Department of Transportation Traffic Operations Division Standard

BARRICADE AND CONSTRUCTION PROJECT LIMIT

BC(2)-14

FILE: bc-14.dgn	DN: TxDOT	CK: TxDOT	DW: TxDOT	CR: TxDOT
© TxDOT November 2002	CONT	SECT	JOB	HIGHWAY
REVISIONS	6353 00		001	IH-2, ETC.
9-07 8-14	DIST	COUNTY		SHEET NO.
7-13	21	HIDALGO, ETC.		203

DATE: \$DATE\$ FILE: \$FILE\$

TYPICAL APPLICATION OF WORK ZONE SPEED LIMIT SIGNS

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

Reduced speeds should only be posted in the vicinity of work activity and not throughout the entire project. Regulatory work zone speed signs (R2-1) shall be removed or covered during periods when they are not needed.



GUIDANCE FOR USE:

LONG/INTERMEDIATE TERM WORK ZONE SPEED LIMITS

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

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

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

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

SHORT TERM WORK ZONE SPEED LIMITS

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

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

GENERAL NOTES

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

40 mph and greater	0.2 to 2 miles
35 mph and less	0.2 to 1 mile
- Regulatory speed limit signs shall have black legend and border on a white reflective background (See "Reflective Sheeting" on BC(4)).
- Fabrication, erection and maintenance of the "ADVANCE SPEED LIMIT" (CW3-5) sign, "WORK ZONE" (G20-5aP) plaque and the "SPEED LIMIT" (R2-1) signs shall not be paid for directly, but shall be considered subsidiary to Item 502.
- Turning signs from view, laying signs over or down will not be allowed, unless as otherwise noted under "REMOVING OR COVERING" on BC(4).
- Techniques that may help reduce traffic speeds include but are not limited to:
 - Law enforcement.
 - Flagger stationed next to sign.
 - Portable changeable message sign (PCMS).
 - Low-power (drone) radar transmitter.
 - Speed monitor trailers or signs.
- Speeds shown on details above are for illustration only. Work Zone Speed Limits should only be posted as approved for each project.
- 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.

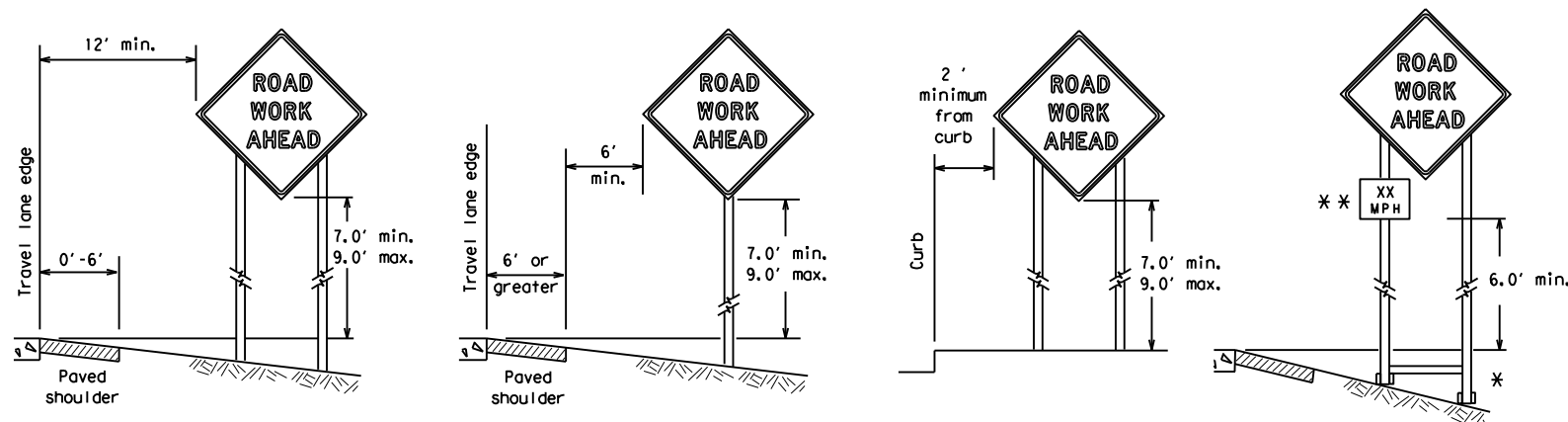
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SHEET 3 OF 12

		Traffic Operations Division Standard	
<h2>BARRICADE AND CONSTRUCTION WORK ZONE SPEED LIMIT</h2>			
<h3>BC (3) - 14</h3>			
FILE: bc-14.dgn	DW: TxDOT	CK: TxDOT	CR: TxDOT
© TxDOT November 2002	CONT	SECT	JOB
REVISIONS	6353	00	001
9-07 8-14	DIST	COUNTY	SHEET NO.
7-13	21	HIDALGO, ETC.	204

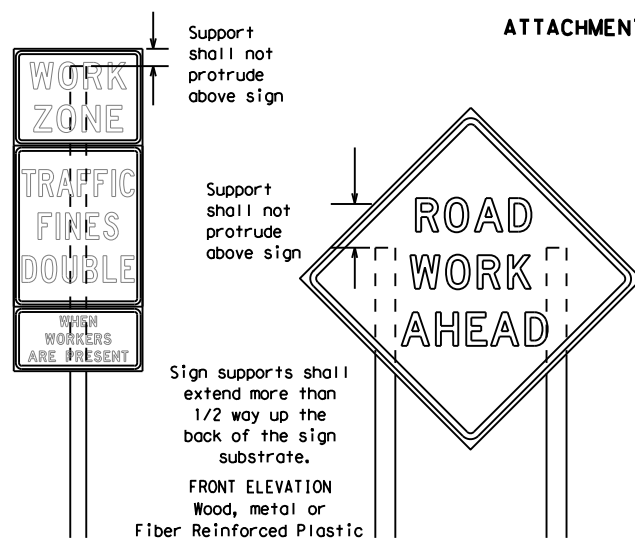
TYPICAL MINIMUM CLEARANCES FOR LONG TERM AND INTERMEDIATE TERM SIGNS



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

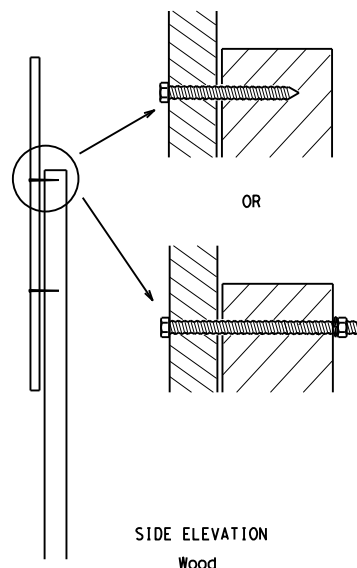
** When plaques are placed on dual-leg supports, they should be attached to the upright nearest the travel lane. Supplemental plaques (advisory or distance) should not cover the surface of the parent sign.

ATTACHMENT FOR SIGN SUPPORTS



Splicing embedded perforated square metal tubing in order to extend post height will only be allowed when the splice is made using four bolts, two above and two below the splice point. Splice must be located entirely behind the sign substrate, not near the base of the support. Splice insert lengths should be at least 5 times nominal post size, centered on the splice and of at least the same gauge material.

Attachment to wooden supports will be by bolts and nuts or screws. Use TxDOT's or manufacturer's recommended procedures for attaching sign substrates to other types of sign supports



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

GENERAL NOTES FOR WORK ZONE SIGNS

- Contractor shall install and maintain signs in a straight and plumb condition and/or as directed by the Engineer.
 - Wooden sign posts shall be painted white.
 - Barricades shall NOT be used as sign supports.
 - All signs shall be installed in accordance with the plans or as directed by the Engineer. Signs shall be used to regulate, warn, and guide the traveling public safely through the work zone.
 - The Contractor may furnish either the sign design shown in the plans or in the "Standard Highway Sign Designs for Texas" (SHSD). The Engineer/Inspector may require the Contractor to furnish other work zone signs that are shown in the TMUTCD but may have been 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 Inspector's TxDOT diary and having both the Inspector and Contractor initial and date the agreed upon changes.
 - The Contractor shall furnish sign supports listed in the "Compliant Work Zone Traffic Control Device List" (CWZTCD). The Contractor shall install the sign support in accordance with the manufacturer's recommendations. If there is a question regarding installation procedures, the Contractor shall furnish the Engineer a copy of the manufacturer's installation recommendations so the Engineer can verify the correct procedures are being followed.
 - The Contractor is responsible for installing signs on approved supports and replacing signs with damaged or cracked substrates and/or damaged or marred reflective sheeting as directed by the Engineer/Inspector.
 - Identification markings may be shown only on the back of the sign substrate. The maximum height of letters and/or company logos used for identification shall be 1 inch.
 - The Contractor shall replace damaged wood posts. New or damaged wood sign posts shall not be spliced.
- DURATION OF WORK (as defined by the "Texas Manual on Uniform Traffic Control Devices" Part 6)**
- The types of sign supports, sign mounting height, the size of signs, and the type of sign substrates can vary based on the type of work being performed. The Engineer is responsible for selecting the appropriate size sign for the type of work being performed. The Contractor is responsible for ensuring the sign support, sign mounting height and substrate meets manufacturer's recommendations in regard to crashworthiness and duration of work requirements.
 - Long-term stationary - work that occupies a location more than 3 days.
 - Intermediate-term stationary - work that occupies a location more than one daylight period up to 3 days, or nighttime work lasting more than one hour.
 - Short-term stationary - daytime work that occupies a location for more than 1 hour in a single daylight period.
 - Short, duration - work that occupies a location up to 1 hour.
 - Mobile - work that moves continuously or intermittently (stopping for up to approximately 15 minutes.)

SIGN MOUNTING HEIGHT

- The bottom of Long-term/Intermediate-term signs shall be at least 7 feet, but not more than 9 feet, above the paved surface, except as shown for supplemental plaques mounted below other signs.
- The bottom of Short-term/Short Duration signs shall be a minimum of 1 foot above the pavement surface but no more than 2 feet above the ground.
- Long-term/Intermediate-term Signs may be used in lieu of Short-term/Short Duration signing.
- Short-term/Short Duration signs shall be used only during daylight and shall be removed at the end of the workday or raised to appropriate Long-term/Intermediate sign height.
- Regulatory signs shall be mounted at least 7 feet, but not more than 9 feet, above the paved surface regardless of work duration.

SIZE OF SIGNS

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

SIGN SUBSTRATES

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

REFLECTIVE SHEETING

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

SIGN LETTERS

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

REMOVING OR COVERING

- When sign messages may be confusing or do not apply, the signs shall be removed or completely covered.
- Long-term stationary or intermediate stationary signs installed on square metal tubing may be turned away from traffic 90 degrees when the sign message is not applicable. This technique may not be used for signs installed in the median of divided highways or near any intersections where the sign may be seen from approaching traffic.
- Signs installed on wooden skids shall not be turned at 90 degree angles to the roadway. These signs should be removed or completely covered when not required.
- When signs are covered, the material used shall be opaque, such as heavy mil black plastic, or other materials which will cover the entire sign face and maintain their opaque properties under automobile headlights at night, without damaging the sign sheeting.
- Burlap shall NOT be used to cover signs.
- Duct tape or other adhesive material shall NOT be affixed to a sign face.
- Signs and anchor stubs shall be removed and holes backfilled upon completion of work.

SIGN SUPPORT WEIGHTS

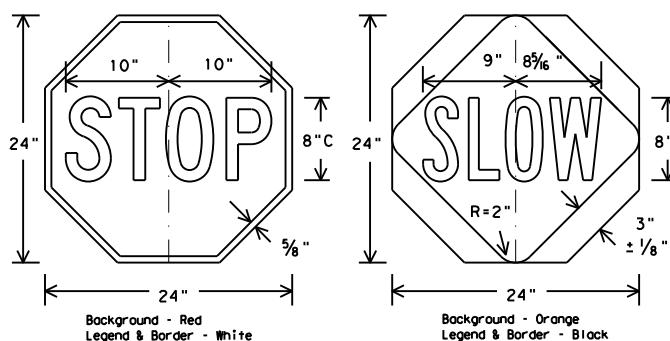
- Where sign supports require the use of weights to keep from turning over, the use of sandbags with dry, cohesionless sand should be used.
- The sandbags will be tied shut to keep the sand from spilling and to maintain a constant weight.
- Rock, concrete, iron, steel or other solid objects shall not be permitted for use as sign support weights.
- Sandbags should weigh a minimum of 35 lbs and a maximum of 50 lbs.
- Sandbags shall be made of a durable material that tears upon vehicular impact. Rubber (such as tire inner tubes) shall NOT be used.
- Rubber ballasts designed for channelizing devices should not be used for ballast on portable sign supports. Sign supports designed and manufactured with rubber bases may be used when shown on the 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.
- Sandbags 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.

STOP/SLOW PADDLES

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



CONTRACTOR REQUIREMENTS FOR MAINTAINING PERMANENT SIGNS WITHIN THE PROJECT LIMITS

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

SHEET 4 OF 12



BARRICADE AND CONSTRUCTION TEMPORARY SIGN NOTES

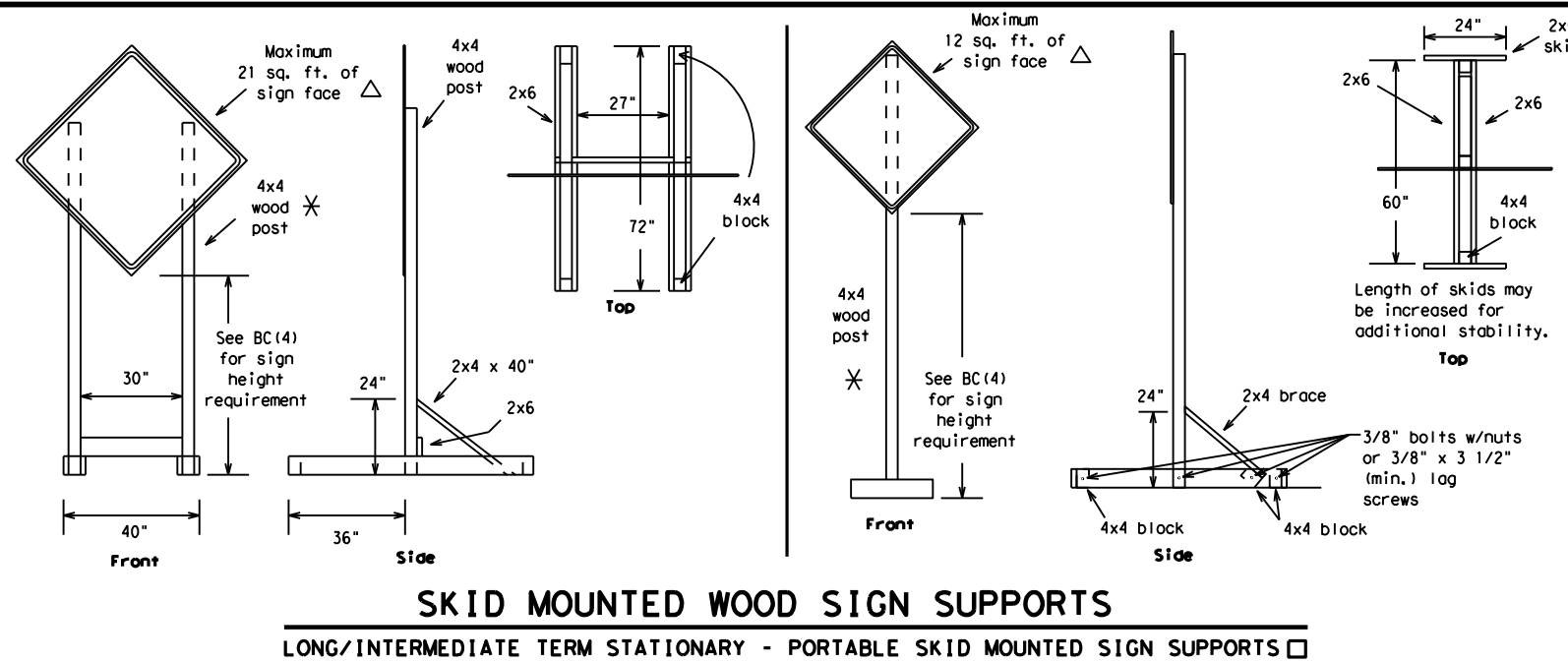
BC (4) - 14

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9-07 8-14	DIST	COUNTY		SHEET NO.
7-13	21	HIDALGO, ETC.		205

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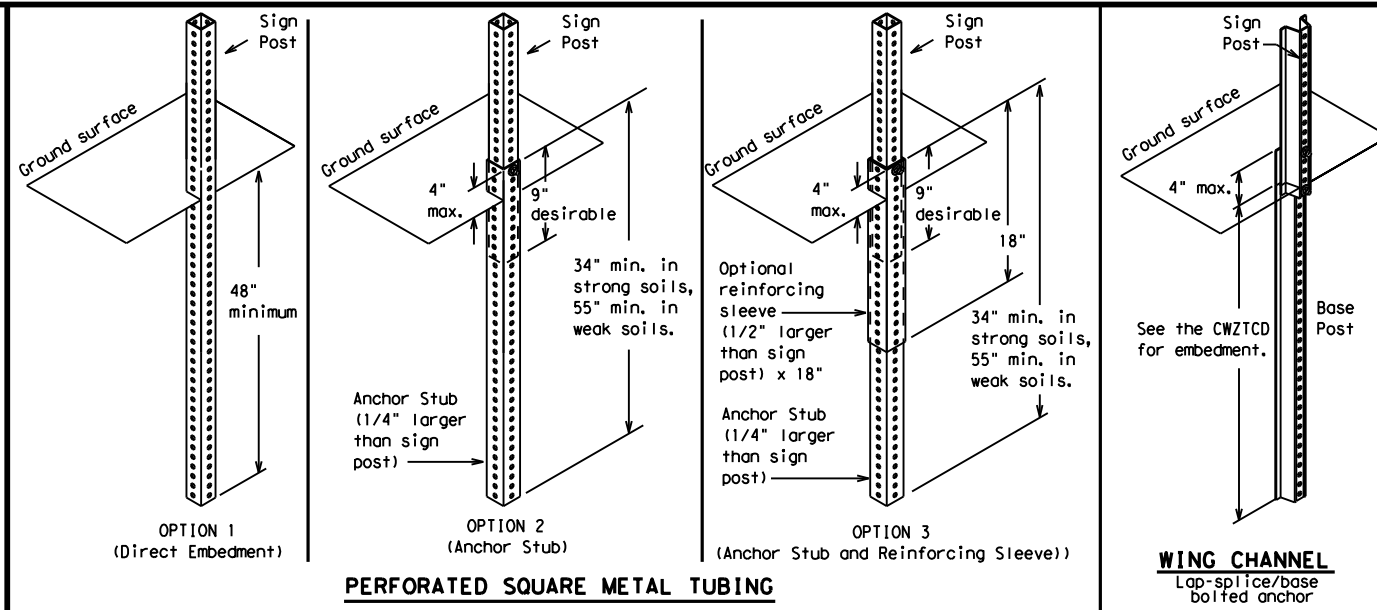
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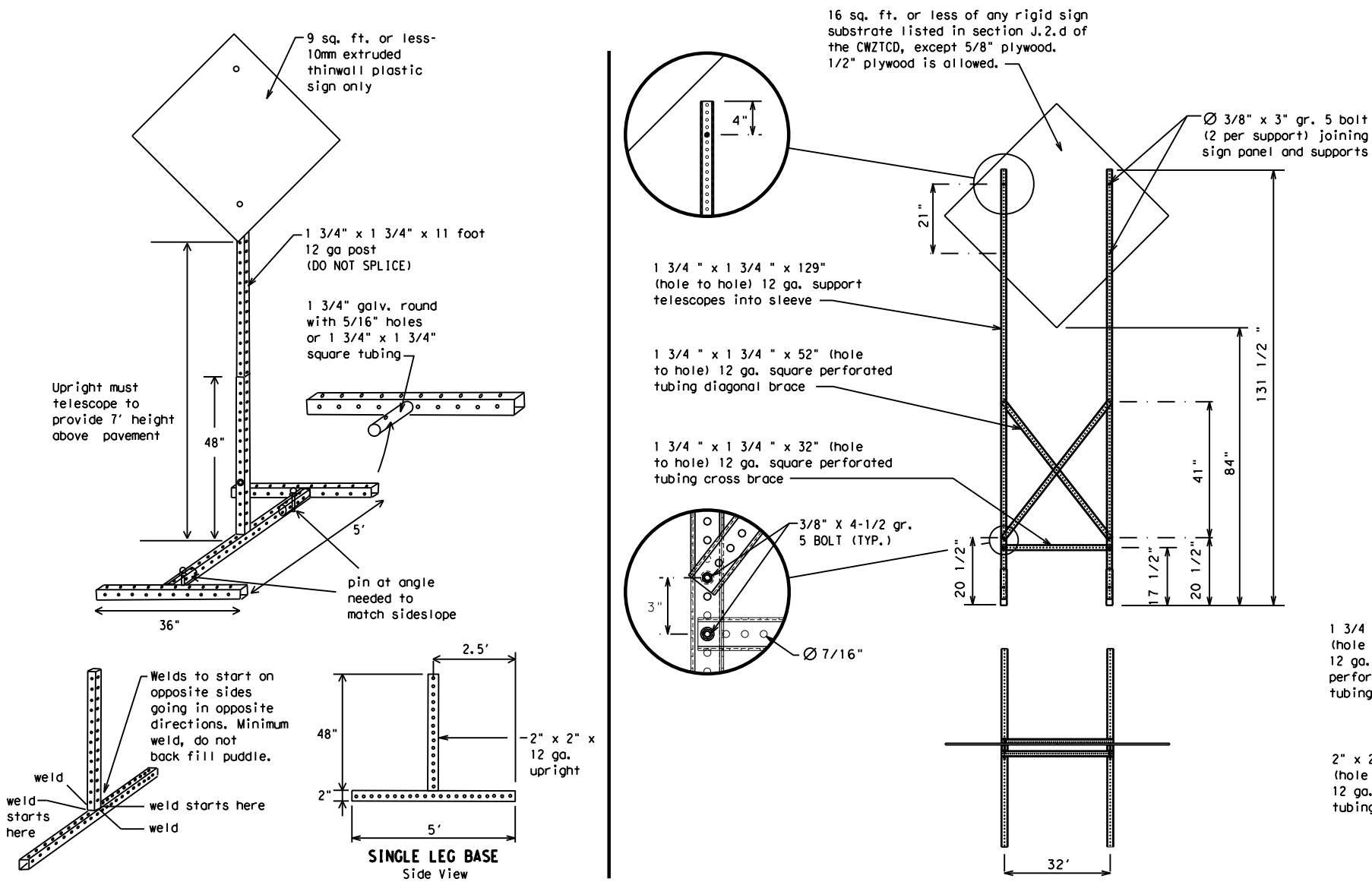
SKID MOUNTED WOOD SIGN SUPPORTS

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

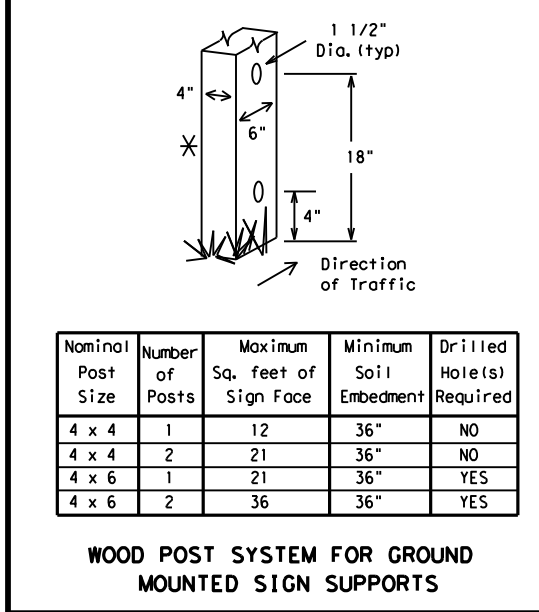


GROUND MOUNTED SIGN SUPPORTS

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



SKID MOUNTED PERFORATED SQUARE STEEL TUBING SIGN SUPPORTS



WOOD POST SYSTEM FOR GROUND MOUNTED SIGN SUPPORTS

Nominal Post Size	Number of Posts	Maximum Sq. feet of Sign Face	Minimum Soil Embedment	Drilled Hole(s) Required
4 x 4	1	12	36"	NO
4 x 4	2	21	36"	NO
4 x 6	1	21	36"	YES
4 x 6	2	36	36"	YES

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

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

- GENERAL NOTES**
- Nails may be used in the assembly of wooden sign supports, but 3/8" bolts with nuts or 3/8" x 3 1/2" lag screws must be used on every joint for final connection.
 - No more than 2 sign posts shall be placed within a 7 ft. circle, except for specific materials noted on the CWZTCD List.
 - When project is completed, all sign supports and foundations shall be removed from the project site. This will be considered subsidiary to Item 502.

- See BC(4) for definition of "Work Duration."
- * Wood sign posts MUST be one piece. Splicing will NOT be allowed. Posts shall be painted white.
- △ See the CWZTCD for the type of sign substrate that can be used for each approved sign support.

SHEET 5 OF 12



BARRICADE AND CONSTRUCTION TYPICAL SIGN SUPPORT

BC(5) - 14

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9-07 8-14	DIST	COUNTY	SHEET NO.	
7-13	21	HIDALGO, ETC.	206	

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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

RECOMMENDED PHASES AND FORMATS FOR PCMS MESSAGES DURING ROADWORK ACTIVITIES

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

PORTABLE CHANGEABLE MESSAGE SIGNS

- 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 eight characters per word), not including simple words such as "TO," "FOR," "AT," etc.
- 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., "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.
- 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.
- Do not display messages that scroll horizontally or vertically across the face of the sign.
- 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.
- 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.
- Each line of text should be centered on the message board rather than left or right justified.
- 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.

Phase 1: Condition Lists

Road/Lane/Ramp Closure List

FREEWAY CLOSED X MILE
ROAD CLOSED AT SH XXX
ROAD CLSD AT FM XXXX
RIGHT X LANES CLOSED
CENTER LANE CLOSED
NIGHT LANE CLOSURES
VARIOUS LANES CLOSED
EXIT CLOSED
MALL DRIVEWAY CLOSED
XXXXXXXX BLVD CLOSED

Other Condition List

FRONTAGE ROAD CLOSED
SHOULDER CLOSED XXX FT
RIGHT LN CLOSED XXX FT
RIGHT X LANES OPEN
DAYTIME LANE CLOSURES
I-XX SOUTH EXIT CLOSED
EXIT XXX CLOSED X MILE
RIGHT LN TO BE CLOSED
X LANES CLOSED TUE - FRI

ROADWORK XXX FT
FLAGGER XXXX FT
RIGHT LN NARROWS XXXX FT
MERGING TRAFFIC XXXX FT
LOOSE GRAVEL XXXX FT
DETOUR X MILE
ROADWORK PAST SH XXXX
BUMP XXXX FT
TRAFFIC SIGNAL XXXX FT

ROAD REPAIRS XXXX FT
LANE NARROWS XXXX FT
TWO-WAY TRAFFIC XX MILE
CONST TRAFFIC XXX FT
UNEVEN LANES XXXX FT
ROUGH ROAD XXXX FT
ROADWORK NEXT FRI-SUN
US XXX EXIT X MILES
LANES SHIFT *

* LANES SHIFT in Phase 1 must be used with STAY IN LANE in Phase 2.

Phase 2: Possible Component Lists

Action to Take/Effect on Travel List

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 IN LANE *

FORM X LINES RIGHT
USE XXXXX RD EXIT
USE EXIT I-XX NORTH
USE I-XX E TO I-XX N
WATCH FOR TRUCKS
EXPECT DELAYS
PREPARE TO STOP
END SHOULDER USE
WATCH FOR WORKERS

Location List

AT FM XXXX
BEFORE RAILROAD CROSSING
NEXT X MILES
PAST US XXX EXIT
XXXXXXXX TO XXXXXX
US XXX TO FM XXXX

Warning List

SPEED LIMIT XX MPH
MAXIMUM SPEED XX MPH
MINIMUM SPEED XX MPH
ADVISORY SPEED XX MPH
RIGHT LANE EXIT
USE CAUTION
DRIVE SAFELY
DRIVE WITH CARE

** 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.

APPLICATION GUIDELINES

- Only 1 or 2 phases are to be used on a PCMS.
- The 1st phase (or both) should be selected from the "Road/Lane/Ramp Closure List" and the "Other Condition List".
- A 2nd phase can be selected from the "Action to Take/Effect on Travel, Location, General Warning, or Advance Notice Phase Lists".
- 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.
- 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

- The words RIGHT, LEFT and ALL can be interchanged as appropriate.
- Roadway designations IH, US, SH, FM and LP can be interchanged as appropriate.
- 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.
- 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.
- Distances or AHEAD can be eliminated from the message if a location phase is used.

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

FULL MATRIX PCMS SIGNS

- When Full Matrix PCMS signs are used, the character height and legibility/visibility requirements shall be maintained as listed in Note 15 under "PORTABLE CHANGEABLE MESSAGE SIGNS" above.
- When symbol signs, such as the "Flagger Symbol" (CW20-7) are represented graphically on the Full Matrix PCMS sign and, with the approval of the Engineer, it shall maintain the legibility/visibility requirement listed above.
- When symbol signs are represented graphically on the Full Matrix PCMS, they shall only supplement the use of the static sign represented, and shall not substitute for, or replace that sign.
- A full matrix PCMS may be used to simulate a flashing arrow board provided it meets the visibility, flash rate and dimming requirements on BC(7), for the same size arrow.

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

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



BARRICADE AND CONSTRUCTION PORTABLE CHANGEABLE MESSAGE SIGN (PCMS)

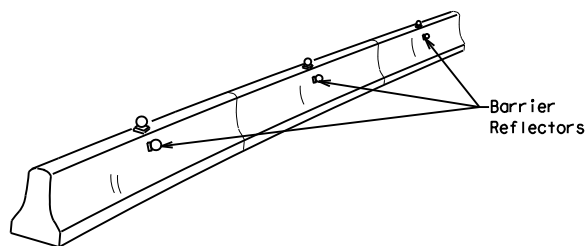
BC (6) - 14

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9-07 8-14	DIST	COUNTY	SHEET NO.	
7-13	21	HIDALGO, ETC.	207	

DATE: \$DATES \$TIMES
FILE: \$FILES

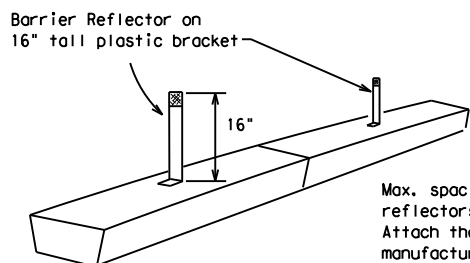
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- Barrier Reflectors shall be pre-qualified, and conform to the color and reflectivity requirements of DMS-8600. A list of prequalified Barrier Reflectors can be found at the Material Producer List web address shown on BC(1).
- Color of Barrier Reflectors shall be as specified in the TMUTCD. The cost of the reflectors shall be considered subsidiary to Item 512.



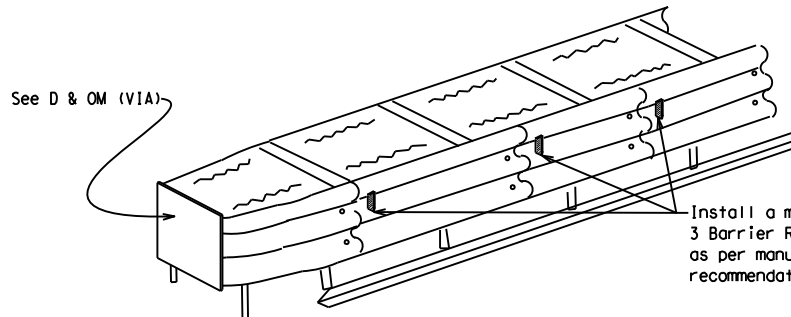
CONCRETE TRAFFIC BARRIER (CTB)

- Where traffic is on one side of the CTB, two (2) Barrier Reflectors shall be mounted in approximately the midsection of each section of CTB. An alternate mounting location is uniformly spaced at one end of each CTB. This will allow for attachment of a barrier grapple without damaging the reflector. The Barrier Reflector mounted on the side of the CTB shall be located directly below the reflector mounted on top of the barrier, as shown in the detail above.
- Where CTB separates two-way traffic, three barrier reflectors shall be mounted on each section of CTB. The reflector unit on top shall have two yellow reflective faces (Bi-Directional) while the reflectors on each side of the barrier shall have one yellow reflective face, as shown in the detail above.
- When CTB separates traffic traveling in the same direction, no barrier reflectors will be required on top of the CTB.
- Barrier Reflector units shall be yellow or white in color to match the edgeline being supplemented.
- Maximum spacing of Barrier Reflectors is forty (40) feet.
- Pavement markers or temporary flexible-reflective roadway marker tabs shall NOT be used as CTB delineation.
- Attachment of Barrier Reflectors to CTB shall be per manufacturer's recommendations.
- Missing or damaged Barrier Reflectors shall be replaced as directed by the Engineer.
- Single slope barriers shall be delineated as shown on the above detail.



LOW PROFILE CONCRETE BARRIER (LPCB)

Max. spacing of barrier reflectors is 20 feet. Attach the delineators as per manufacturer's recommendations.



DELINEATION OF END TREATMENTS

END TREATMENTS FOR CTB'S USED IN WORK ZONES

End treatments used on CTB's in work zones shall meet crashworthy standards as defined in the National Cooperative Highway Research Report 350. Refer to the CWZTCD List for approved end treatments and manufacturers.

BARRIER REFLECTORS FOR CONCRETE TRAFFIC BARRIER AND ATTENUATORS

WARNING LIGHTS

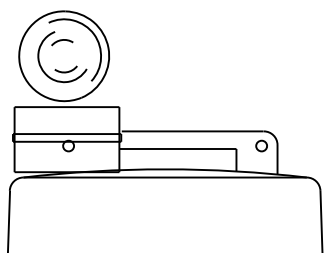
- Warning lights shall meet the requirements of the TMUTCD.
- Warning lights shall NOT be installed on barricades.
- Type A-Low Intensity Flashing Warning Lights are commonly used with drums. They are intended to warn of or mark a potentially hazardous area. Their use shall be as indicated on this sheet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

WARNING LIGHTS MOUNTED ON PLASTIC DRUMS

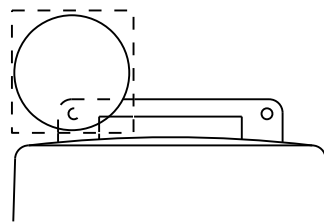
- Type A flashing warning lights are intended to warn drivers that they are approaching or are in a potentially hazardous area.
- Type A random flashing warning lights are not intended for delineation and shall not be used in a series.
- A series of sequential flashing warning lights placed on channelizing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

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

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



Type C Warning Light or approved substitute mounted on a drum adjacent to the travel way.

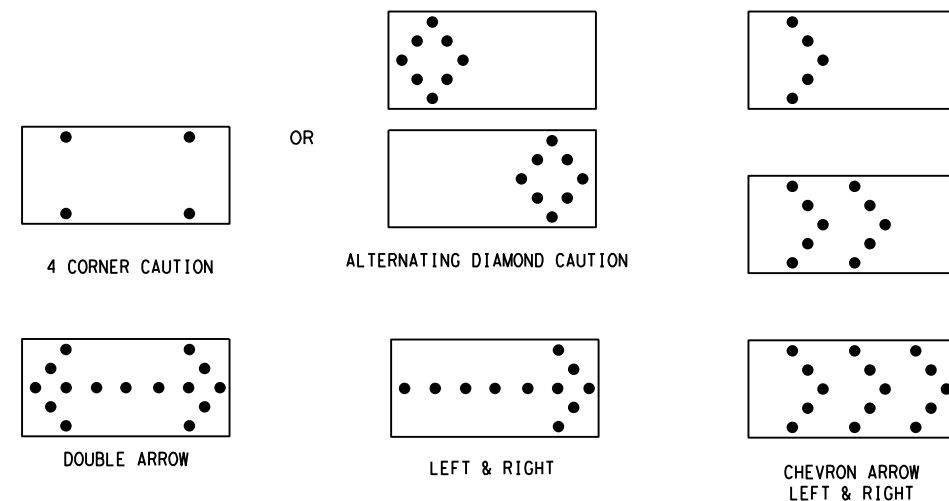


Warning reflector may be round or square. Must have a yellow reflective surface area of at least 30 square inches

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

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



- The "CAUTION" display consists of four corner lamps flashing simultaneously, or the Alternating Diamond Caution mode as shown.
- The straight line caution display is NOT ALLOWED.
- The Flashing Arrow Board shall be capable of minimum 50 percent dimming from rated lamp voltage. The flashing rate of the lamps shall not be less than 25 nor more than 40 flashes per minute.
- Minimum lamp "on time" shall be approximately 50 percent for the flashing arrow and equal intervals of 25 percent for each sequential phase of the flashing chevron.
- The sequential arrow display is NOT ALLOWED.
- The flashing arrow display is the TxDOT standard; however, the sequential Chevron display may be used during daylight operations.
- The Flashing Arrow Board shall be mounted on a vehicle, trailer or other suitable support.
- A Flashing Arrow Board SHALL NOT BE USED to laterally shift traffic.
- A full matrix PCMS may be used to simulate a Flashing Arrow Board provided it meets visibility, flash rate and dimming requirements on this sheet for the same size arrow.
- Minimum mounting height of trailer mounted Arrow Boards should be 7 feet from roadway to bottom of panel.

REQUIREMENTS			
TYPE	MINIMUM SIZE	MINIMUM NUMBER OF PANEL LAMPS	MINIMUM VISIBILITY DISTANCE
B	30 x 60	13	3/4 mile
C	48 x 96	15	1 mile

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

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

FLASHING ARROW BOARDS

SHEET 7 OF 12

TRUCK-MOUNTED ATTENUATORS

- Truck-mounted attenuators (TMA) used on TxDOT facilities must meet the requirements outlined in the National Cooperative Highway Research Report No. 350 (NCHRP 350) or the Manual for Assessing Safety Hardware (MASH).
- Refer to the CWZTCD for the requirements of Level 2 or Level 3 TMAs.
- Refer to the CWZTCD for a list of approved TMAs.
- TMAs are required on freeways unless otherwise noted in the plans.
- A TMA should be used anytime that it can be positioned 30 to 100 feet in advance of the area of crew exposure without adversely affecting the work performance.
- The only reason a TMA should not be required is when a work area is spread down the roadway and the work crew is an extended distance from the TMA.



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

BC (7) - 14

FILE: bc-14.dgn	DN: TxDOT	CR: TxDOT	DW: TxDOT	CK: TxDOT
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9-07 8-14	DIST	COUNTY	SHEET NO.	
7-13	21	HIDALGO, ETC.	208	

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GENERAL NOTES

- For long term stationary work zones on freeways, drums shall be used as the primary channelizing device.
- 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.
- 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).
- 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:

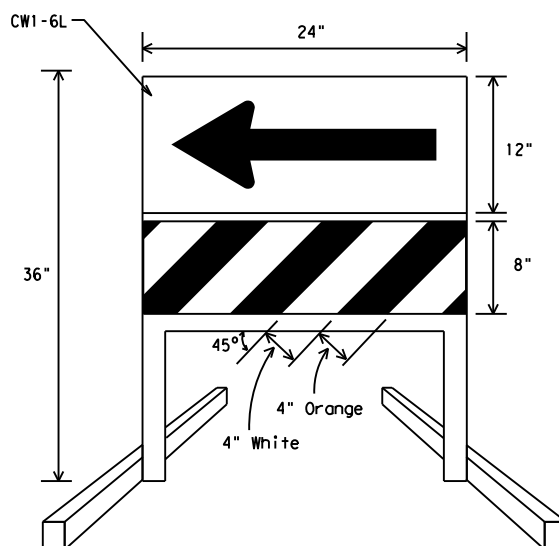
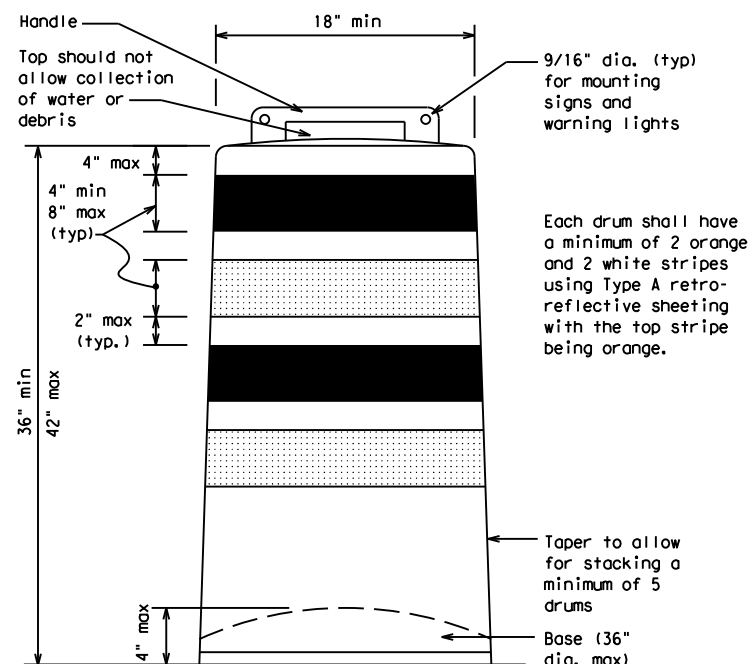
- Plastic drums shall be a two-piece design; the "body" of the drum shall be the top portion and the "base" shall be the bottom.
- The body and base shall lock together in such a manner that the body separates from the base when impacted by a vehicle traveling at a speed of 20 MPH or greater but prevents 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.
- 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.
- 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.
- 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.
- 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.
- Drum body shall have a maximum unballasted weight of 11 lbs.
- 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.

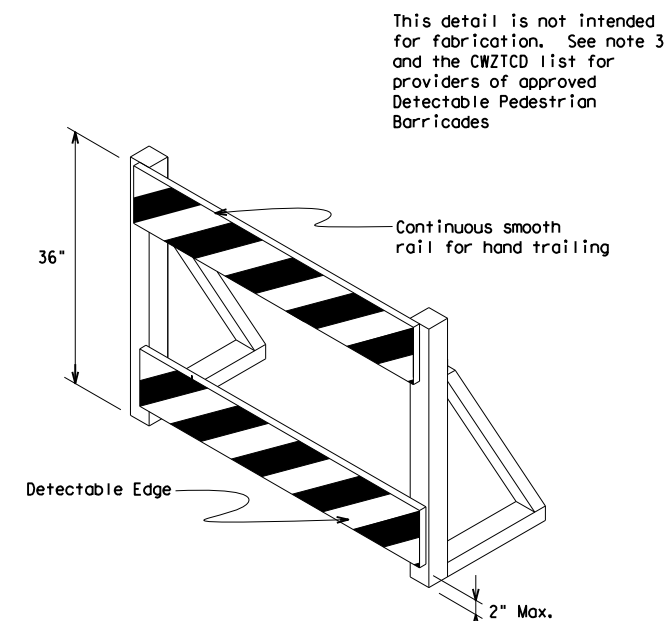
BALLAST

- 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.
- 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.
- 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.



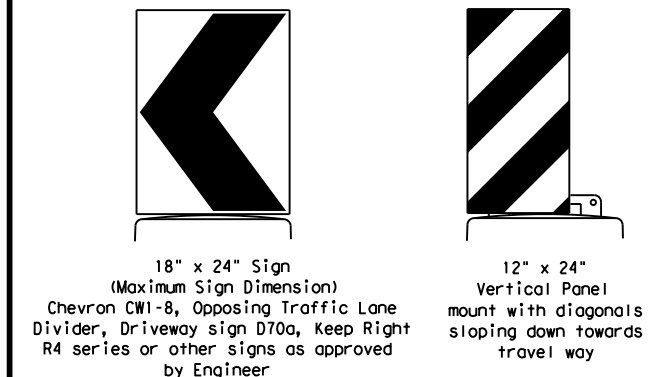
DIRECTION INDICATOR BARRICADE

- The Direction Indicator Barricade may be used in tapers, transitions, and other areas where specific directional 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.
- The Direction Indicator Barricade shall consist of One-Direction Large Arrow (CWI-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. Sheetting types shall be as per DMS 8300.
- Double arrows on the Direction Indicator Barricade will not be allowed.
- Approved manufacturers are shown on the CWZTCD List. Ballast shall be as approved by the manufacturers instructions.



DETECTABLE PEDESTRIAN BARRICADES

- 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.
- Where pedestrians with visual disabilities normally use the closed sidewalk, a device that is detectable by a person with a visual disability traveling with the aid of a long cane shall be placed across the full width of the closed sidewalk.
- 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 path.
- 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 for Buildings and Facilities (ADAAG)" and should not be used as a control for pedestrian movements.
- Warning lights shall not be attached to detectable pedestrian barricades.
- Detectable pedestrian barricades may 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.



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

SIGNS, CHEVRONS, AND VERTICAL PANELS MOUNTED ON PLASTIC DRUMS

- Signs used on plastic drums shall be manufactured using substrates listed on the CWZTCD.
- 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.
- 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.
- 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.
- R9-9, R9-10, R9-11 and R9-11a Sidewalk Closed signs which are 24 inches wide may be mounted on plastic drums, with approval of the Engineer.

SHEET 8 OF 12



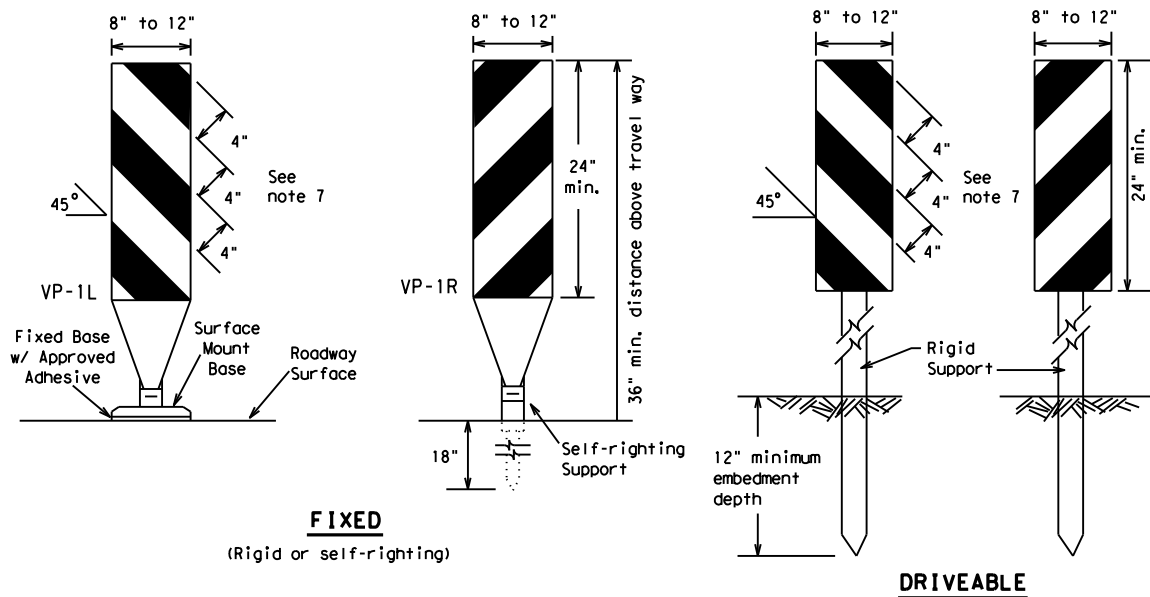
BARRICADE AND CONSTRUCTION CHANNELIZING DEVICES

BC (8) - 14

FILE: bc-14.dgn	DN: TxDOT	CR: TxDOT	DW: TxDOT	CK: TxDOT
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REVISIONS	6353	00	001	IH-2, ETC.
4-03 7-13	DIST	COUNTY	SHEET NO.	
9-07 8-14	21	HIDALGO, ETC.	209	

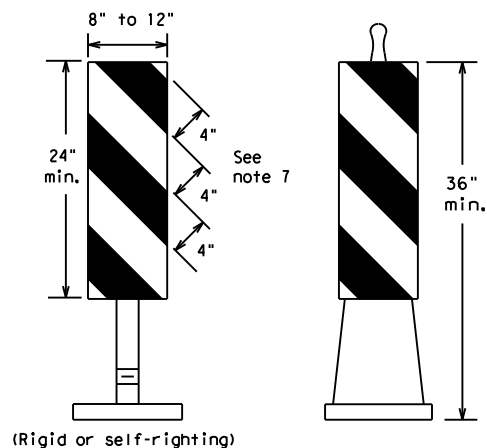
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FIXED
(Rigid or self-righting)

DRIVEABLE

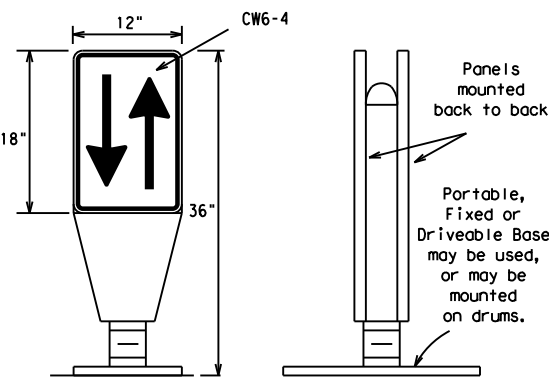


(Rigid or self-righting)

PORTABLE

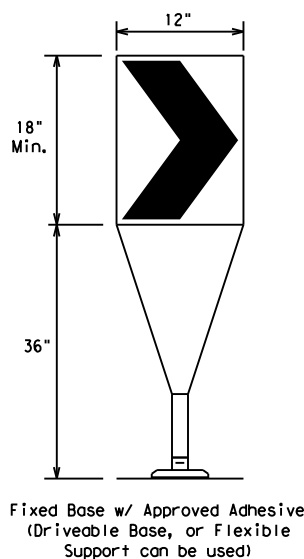
VERTICAL PANELS (VPs)

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



OPPOSING TRAFFIC LANE DIVIDERS (OTLD)

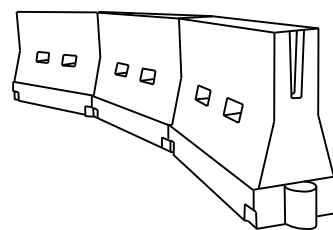
- Opposing Traffic Lane Dividers (OTLD) are delineation devices designed to convert a normal one-way roadway section to two-way operation. OTLD's are used on temporary centerlines. The upward and downward arrows on the sign's face indicate the direction of traffic on either side of the divider. The base is secured to the pavement with an adhesive or rubber weight to minimize movement caused by a vehicle impact or wind gust.
- The OTLD may be used in combination with 42" cones or VPs.
- Spacing between the OTLD shall not exceed 500 feet. 42" cones or VPs placed between the OTLD's should not exceed 100 foot spacing.
- The OTLD shall be orange with a black non-reflective legend. Sheeting for the OTLD 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.



Fixed Base w/ Approved Adhesive (Driveable Base, or Flexible Support can be used)

- The chevron shall be a vertical rectangle with a minimum size of 12 by 18 inches.
- 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.
- 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.
- To be effective, the chevron should be visible for at least 500 feet.
- 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.
- 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)

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

WATER BALLASTED SYSTEMS USED AS BARRIERS

- Water ballasted systems used as barriers shall not be used solely to channelize road users, but also to protect the work space per the appropriate NCHRP 350 crashworthiness requirements based on roadway speed and barrier application.
- Water ballasted systems used to channelize vehicular traffic shall be supplemented with retroreflective delineation or channelizing devices to improve daytime/nighttime visibility. They may also be supplemented with pavement markings.
- Water ballasted systems used as barriers shall be placed in accordance to application and installation requirements specific to the device, and used only when shown on the CWZTCD list.
- Water ballasted systems used as barriers should not be used for a merging taper except in low speed (less than 45 MPH) urban areas. When used on a taper in a low speed urban area, the taper shall be delineated and the taper length should be designed to optimize road user operations considering the available geometric conditions.
- When water ballasted systems used as barriers have blunt ends exposed to traffic, they should be attenuated as per manufacturer recommendations or flared to a point outside the clear zone.

If used to channelize pedestrians, longitudinal channelizing devices or water ballasted 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

- Work Zone channelizing devices illustrated on this sheet may be installed in close proximity to traffic and are suitable for use on high or low speed roadways. The Engineer/Inspector shall ensure that spacing and placement is uniform and in accordance with the "Texas Manual on Uniform Traffic Control Devices" (TMUTCD).
- Channelizing devices shown on this sheet may have a driveable, fixed or portable base. The requirement for self-righting channelizing devices must be specified in the General Notes or other plan sheets.
- Channelizing devices on self-righting supports should be used in work zone areas where channelizing devices are frequently impacted by errant vehicles or vehicle related wind gusts making alignment of the channelizing devices difficult to maintain. Locations of these devices shall be detailed elsewhere in the plans. These devices shall conform to the TMUTCD and the "Compliant Work Zone Traffic Control Devices List" (CWZTCD).
- 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.
- 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.
- 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 * S	Formula L = WS ² / 60	Minimum Desirable Taper Lengths * * L			Suggested Maximum Spacing of Channelizing Devices	
		10' Offset	11' Offset	12' Offset	On a Taper	On a Tangent
30	L = WS ² / 60	150'	165'	180'	30'	60'
35		205'	225'	245'	35'	70'
40	L = WS	265'	295'	320'	40'	80'
45		450'	495'	540'	45'	90'
50	L = WS	500'	550'	600'	50'	100'
55		550'	605'	660'	55'	110'
60	L = WS	600'	660'	720'	60'	120'
65		650'	715'	780'	65'	130'
70	L = WS	700'	770'	840'	70'	140'
75		750'	825'	900'	75'	150'
80	L = WS	800'	880'	960'	80'	160'

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

SUGGESTED MAXIMUM SPACING OF CHANNELIZING DEVICES AND MINIMUM DESIRABLE TAPER LENGTHS

SHEET 9 OF 12



BARRICADE AND CONSTRUCTION CHANNELIZING DEVICES

BC (9) - 14

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REVISIONS	6353	00	001	IH-2, ETC.
9-07 8-14	DIST	COUNTY	SHEET NO.	
7-13	21	HIDALGO, ETC.	210	

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TYPE 3 BARRICADES

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

Barricades shall NOT be used as a sign support.

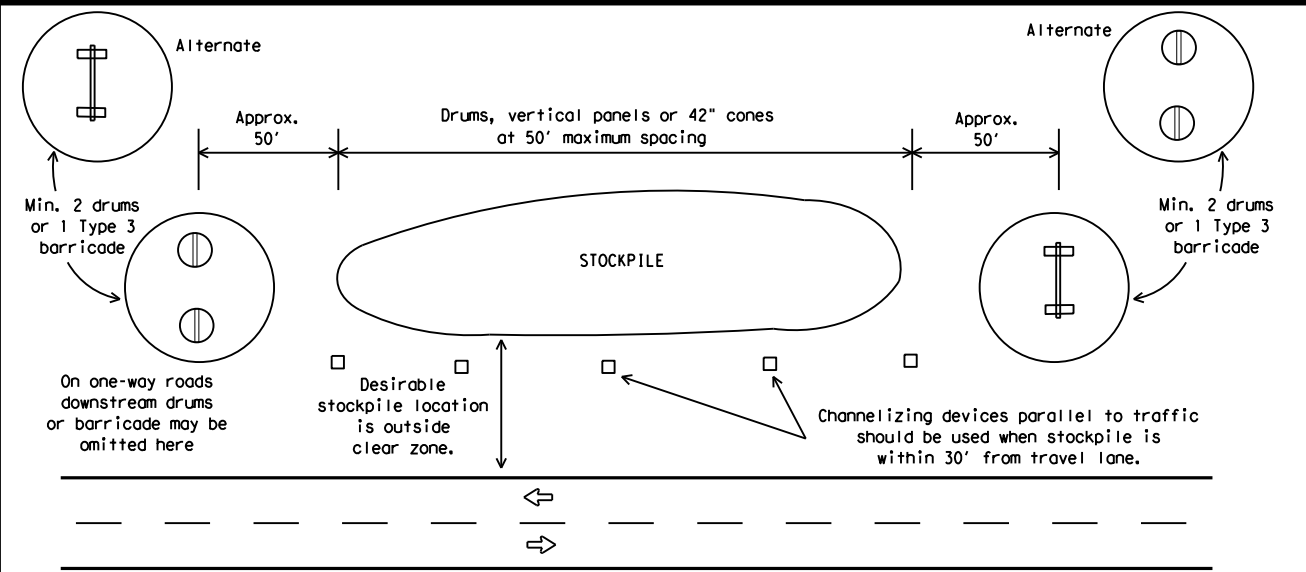


TYPICAL STRIPING DETAIL FOR BARRICADE RAIL



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

TYPICAL PANEL DETAIL FOR SKID OR POST TYPE BARRICADES



TRAFFIC CONTROL FOR MATERIAL STOCKPILES

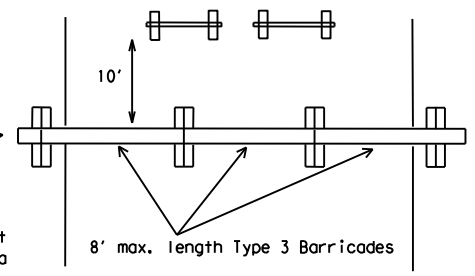
Each roadway of a divided highway shall be barricaded in the same manner.



PERSPECTIVE VIEW

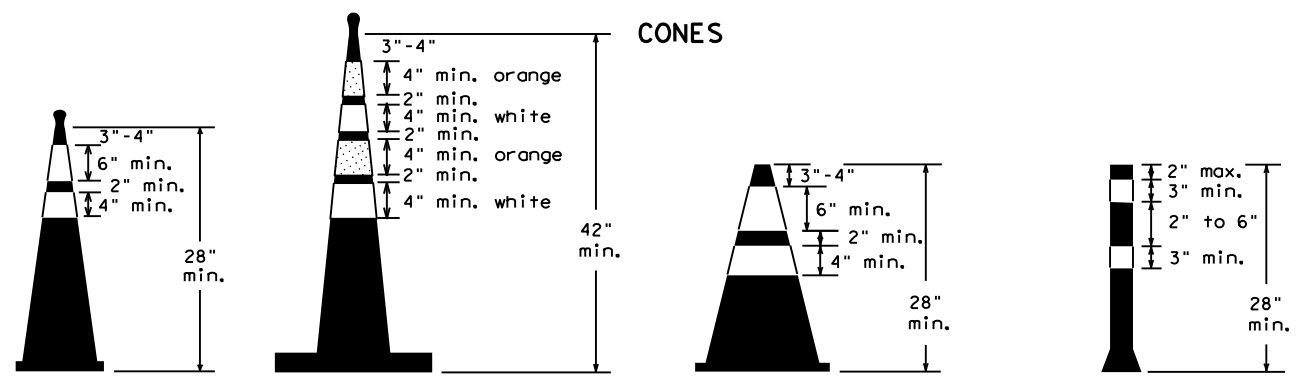
The three rails on Type 3 barricades shall be reflectorized orange and reflective white stripes on one side facing one-way traffic and both sides for two-way traffic. Barricade striping should slant downward in the direction of detour.

1. Signs should be mounted on independent supports at a 7 foot mounting height in center of roadway. The signs should be a minimum of 10 feet behind Type 3 Barricades.
2. Advance signing shall be as specified elsewhere in the plans.



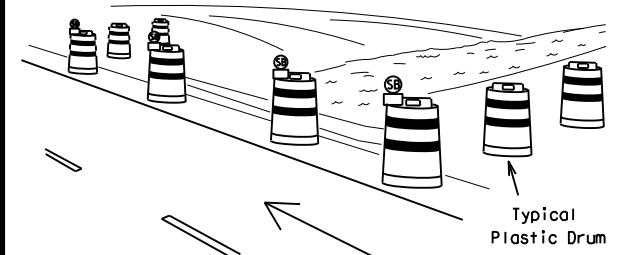
PLAN VIEW

TYPE 3 BARRICADE (POST AND SKID) TYPICAL APPLICATION

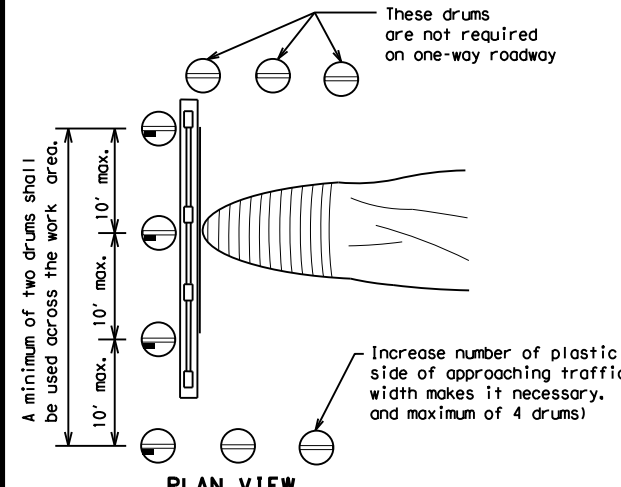


28" Cones shall have a minimum weight of 9 1/2 lbs.
42" 2-piece cones shall have a minimum weight of 30 lbs. including base.

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



PERSPECTIVE VIEW



PLAN VIEW

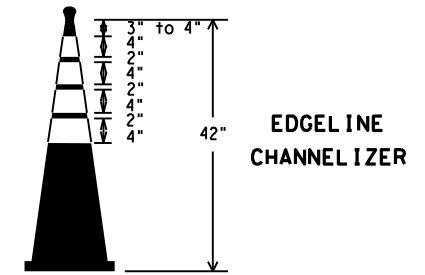
CULVERT WIDENING OR OTHER ISOLATED WORK WITHIN THE PROJECT LIMITS

1. Where positive redirection capability is provided, drums may be omitted.
2. Plastic construction fencing may be used with drums for safety as required in the plans.
3. Vertical Panels on flexible support may be substituted for drums when the shoulder width is less than 4 feet.
4. When the shoulder width is greater than 12 feet, steady-burn lights may be omitted if drums are used.
5. Drums must extend the length of the culvert widening.

LEGEND	
	Plastic drum
	Plastic drum with steady burn light or yellow warning reflector
	Steady burn warning light or yellow warning reflector

Increase number of plastic drums on the side of approaching traffic if the crown width makes it necessary. (minimum of 2 and maximum of 4 drums)

THIS DEVICE SHALL NOT BE USED ON PROJECTS LET AFTER MARCH 2014.



EDGE LINE CHANNELIZER

1. This device is intended only for use in place of a vertical panel to channelize traffic by indicating the edge of the travel lane. It is not intended to be used in transitions or tapers.
2. This device shall not be used to separate lanes of traffic (opposing or otherwise) or warn of objects.
3. This device is based on a 42 inch, two-piece cone with an alternate striping pattern: four 4 inch retroreflective bands, with an approximate 2 inch gap between bands. The color of the band should correspond to the color of the edgeline (yellow for left edgeline, white for right edgeline) for which the device is substituted or for which it supplements. The reflectorized bands shall be retroreflective Type A conforming to Departmental Material Specification DMS-8300, unless otherwise noted.
4. The base must weigh a minimum of 30 lbs.

BARRICADE AND CONSTRUCTION CHANNELIZING DEVICES

BC(10) - 14

FILE: bc-14.dgn	DN: TxDOT	CK: TxDOT	DW: TxDOT	CR: TxDOT
© TxDOT November 2002	CONT	SECT	JOB	HIGHWAY
REVISIONS	6353	00	001	IH-2, ETC.
9-07 8-14	DIST	COUNTY	SHEET NO.	
7-13	21	HIDALGO, ETC.	211	

DATE: \$DATES\$ FILE: \$FILES\$

WORK ZONE PAVEMENT MARKINGS

GENERAL

- 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.
- Color, patterns and dimensions shall be in conformance with the "Texas Manual on Uniform Traffic Control Devices" (TMUTCD).
- Additional supplemental pavement marking details may be found in the plans or specifications.
- Pavement markings shall be installed in accordance with the TMUTCD and as shown on the plans.
- 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).
- 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.
- All work zone pavement markings shall be installed in accordance with Item 662, "Work Zone Pavement Markings."

RAISED PAVEMENT MARKERS

- Raised pavement markers are to be placed according to the patterns on BC(12).
- 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

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

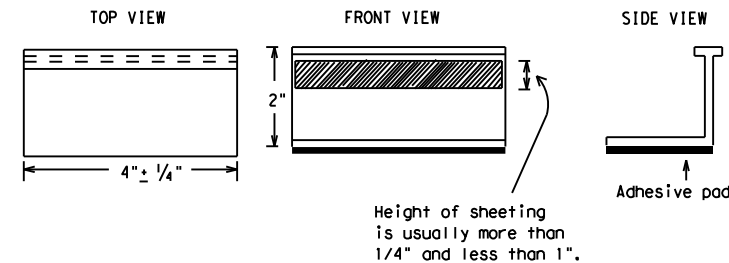
MAINTAINING WORK ZONE PAVEMENT MARKINGS

- The Contractor will be responsible for maintaining work zone pavement markings within the work limits.
- 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.
- 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.
- 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

- 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.
- 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.
- 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".
- The removal of pavement markings may require resurfacing or seal coating portions of the roadway as described in Item 677.
- Subject to the approval of the Engineer, any method that proves to be successful on a particular type pavement may be used.
- Blast cleaning may be used but will not be required unless specifically shown in the plans.
- Over-painting of the markings SHALL NOT BE permitted.
- Removal of raised pavement markers shall be as directed by the Engineer.
- 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.
- Black-out marking tape may be used to cover conflicting existing markings for periods less than two weeks when approved by the Engineer.

Temporary Flexible-Reflective Roadway Marker Tabs



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

- Temporary flexible-reflective roadway marker tabs used as guidemarks shall meet the requirements of DMS-8242.
- 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.
 - 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.
 - 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.
- Small design variances may be noted between tab manufacturers.
- 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

- Raised pavement markers used as guidemarks shall be from the approved product list, and meet the requirements of DMS-4200.
- All temporary construction raised pavement markers provided on a project shall be of the same manufacturer.
- 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).

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

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

SHEET 11 OF 12



BARRICADE AND CONSTRUCTION PAVEMENT MARKINGS

BC(11) - 14

FILE: bc-14.dgn	DN: TxDOT	CK: TxDOT	DW: TxDOT	CR: TxDOT
© TxDOT February 1998	CONT	SECT	JOB	HIGHWAY
REVISIONS	6353	00	001	IH-2, ETC.
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1-02 7-13	21	HIDALGO, ETC.	212	
11-02 8-14				

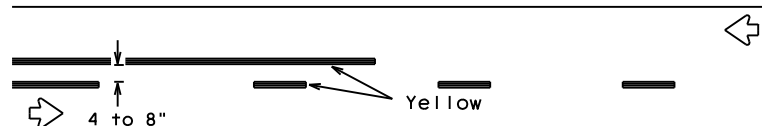
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FILE: \$FILES

PAVEMENT MARKING PATTERNS

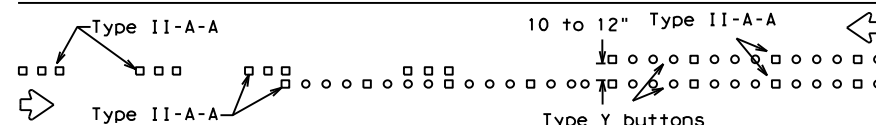


REFLECTORIZED PAVEMENT MARKINGS - PATTERN A

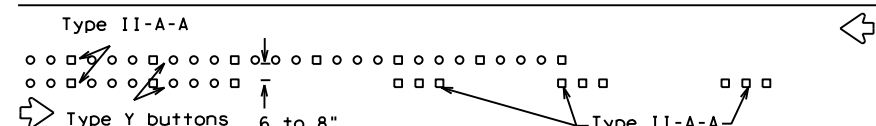


REFLECTORIZED PAVEMENT MARKINGS - PATTERN B

Pattern A is the TXDOT Standard, however Pattern B may be used if approved by the Engineer. Prefabricated markings may be substituted for reflectorized pavement markings.

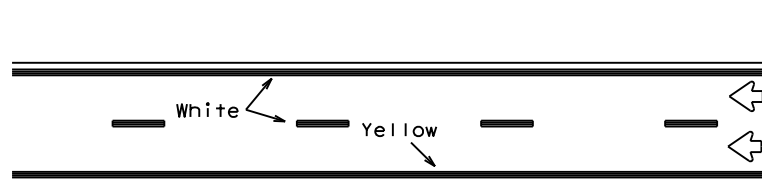


RAISED PAVEMENT MARKERS - PATTERN A



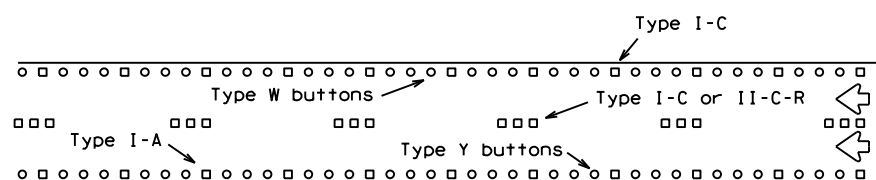
RAISED PAVEMENT MARKERS - PATTERN B

CENTER LINE & NO-PASSING ZONE BARRIER LINES FOR TWO-LANE, TWO-WAY HIGHWAYS



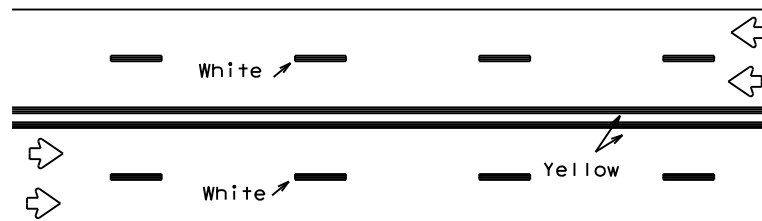
REFLECTORIZED PAVEMENT MARKINGS

Prefabricated markings may be substituted for reflectorized pavement markings.



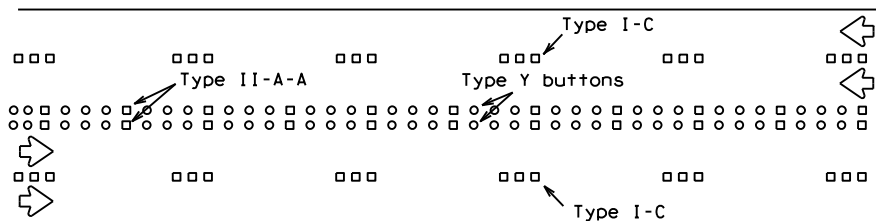
RAISED PAVEMENT MARKERS

EDGE & LANE LINES FOR DIVIDED HIGHWAY



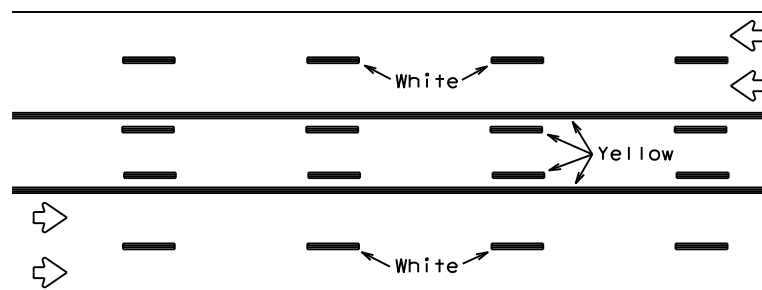
REFLECTORIZED PAVEMENT MARKINGS

Prefabricated markings may be substituted for reflectorized pavement markings.



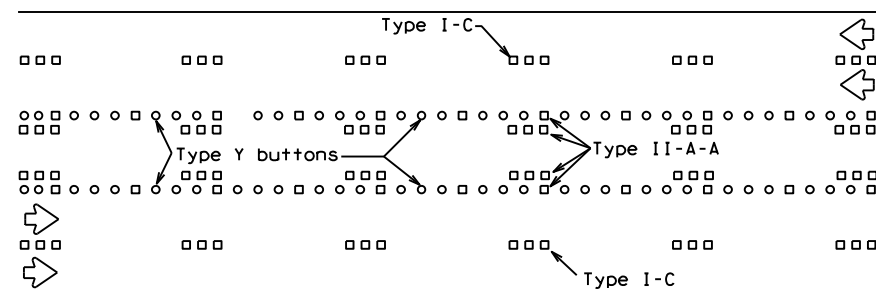
RAISED PAVEMENT MARKERS

LANE & CENTER LINES FOR MULTILANE UNDIVIDED HIGHWAYS



REFLECTORIZED PAVEMENT MARKINGS

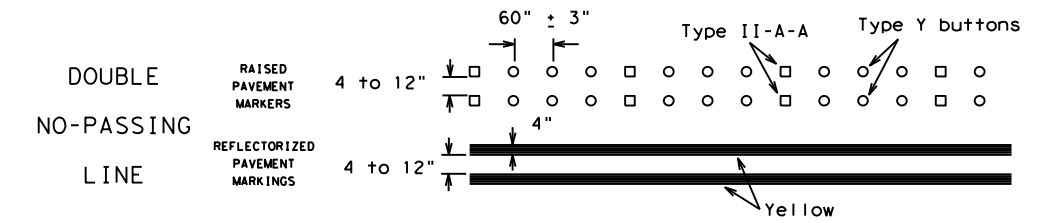
Prefabricated markings may be substituted for reflectorized pavement markings.



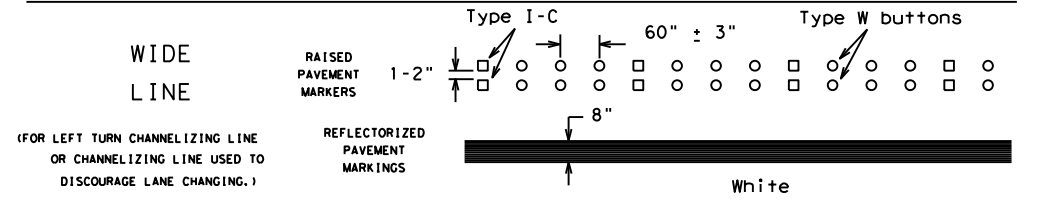
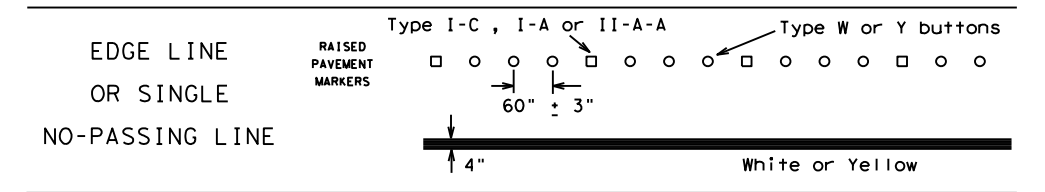
RAISED PAVEMENT MARKERS

TWO-WAY LEFT TURN LANE

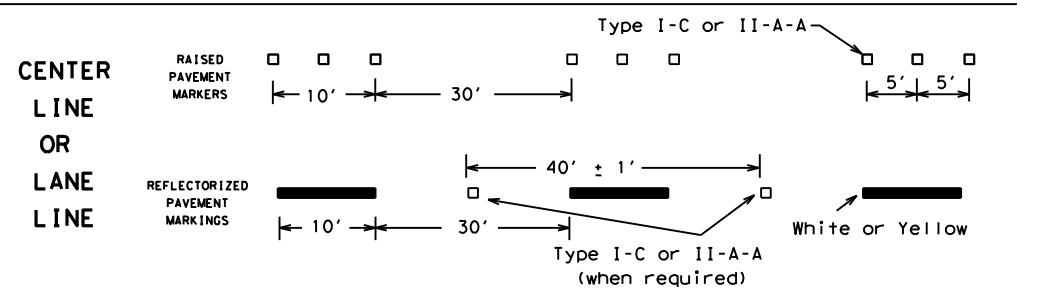
STANDARD WORK ZONE PAVEMENT MARKINGS DETAILS



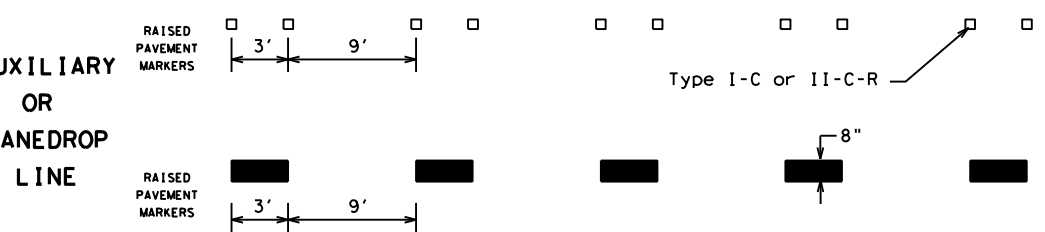
SOLID LINES



BROKEN LINES



AUXILIARY OR LANEDROP LINE



REMOVABLE MARKINGS WITH RAISED PAVEMENT MARKERS

If raised pavement markers are used to supplement REMOVABLE markings, the markers shall be applied to the top of the tape at the approximate mid length of tape used for broken lines or at 20 foot spacing for solid lines. This allows an easier removal of raised pavement markers and tape.



SHEET 12 OF 12



BARRICADE AND CONSTRUCTION PAVEMENT MARKING PATTERNS

BC(12)-14

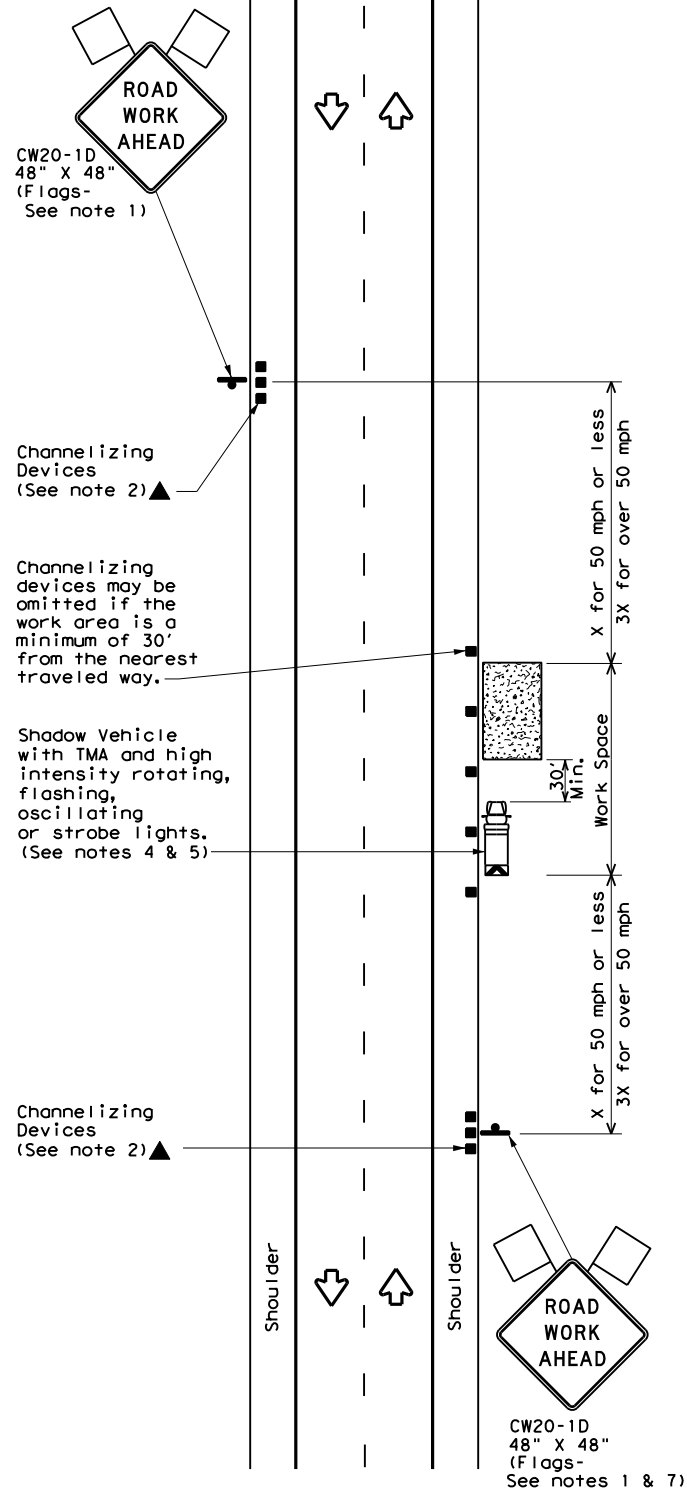
Raised pavement markers used as standard pavement markings shall be from the approved products list and meet the requirements of Item 672 "RAISED PAVEMENT MARKERS."

FILE: bc-14.dgn	DN: TxDOT	CK: TxDOT	DW: TxDOT	CK: TxDOT
©TxDOT February 1998	CONT	SECT	JOB	HIGHWAY
REVISIONS	6353	00	001	IH-2, ETC.
1-97 9-07	DIST	COUNTY	SHEET NO.	
2-98 7-13	21	HIDALGO, ETC.	213	
11-02 8-14				

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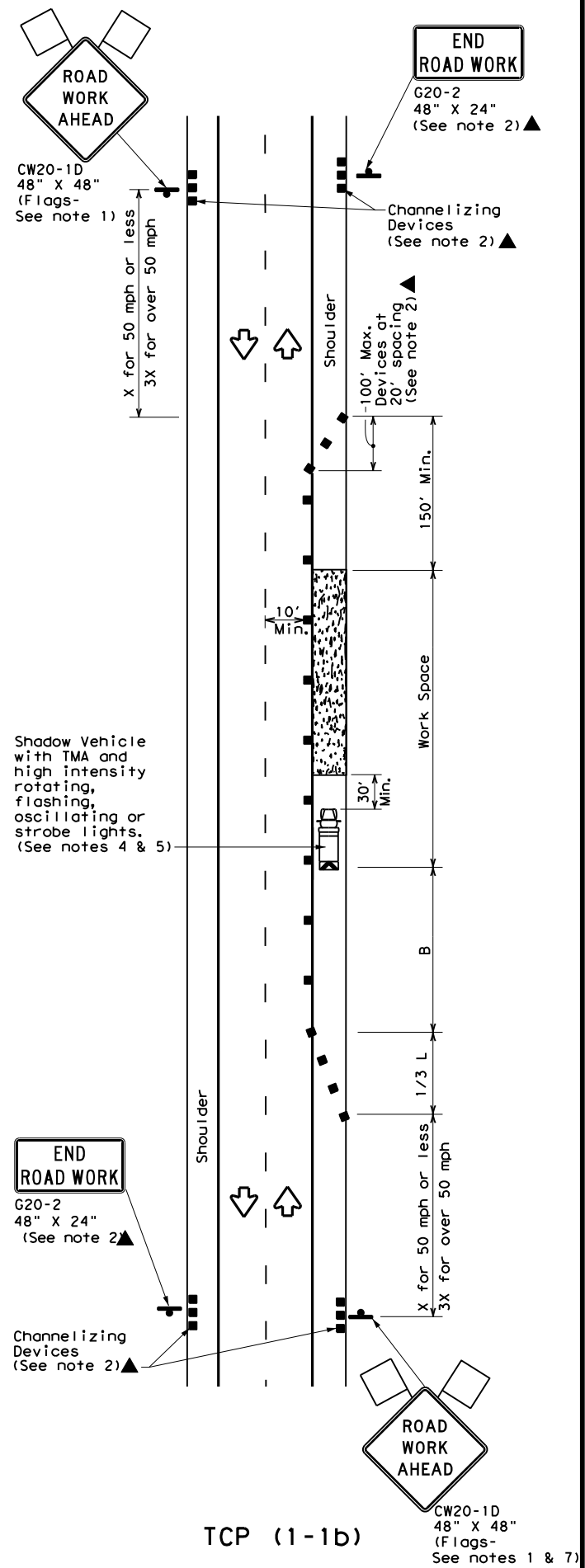
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FILE: \$FILES

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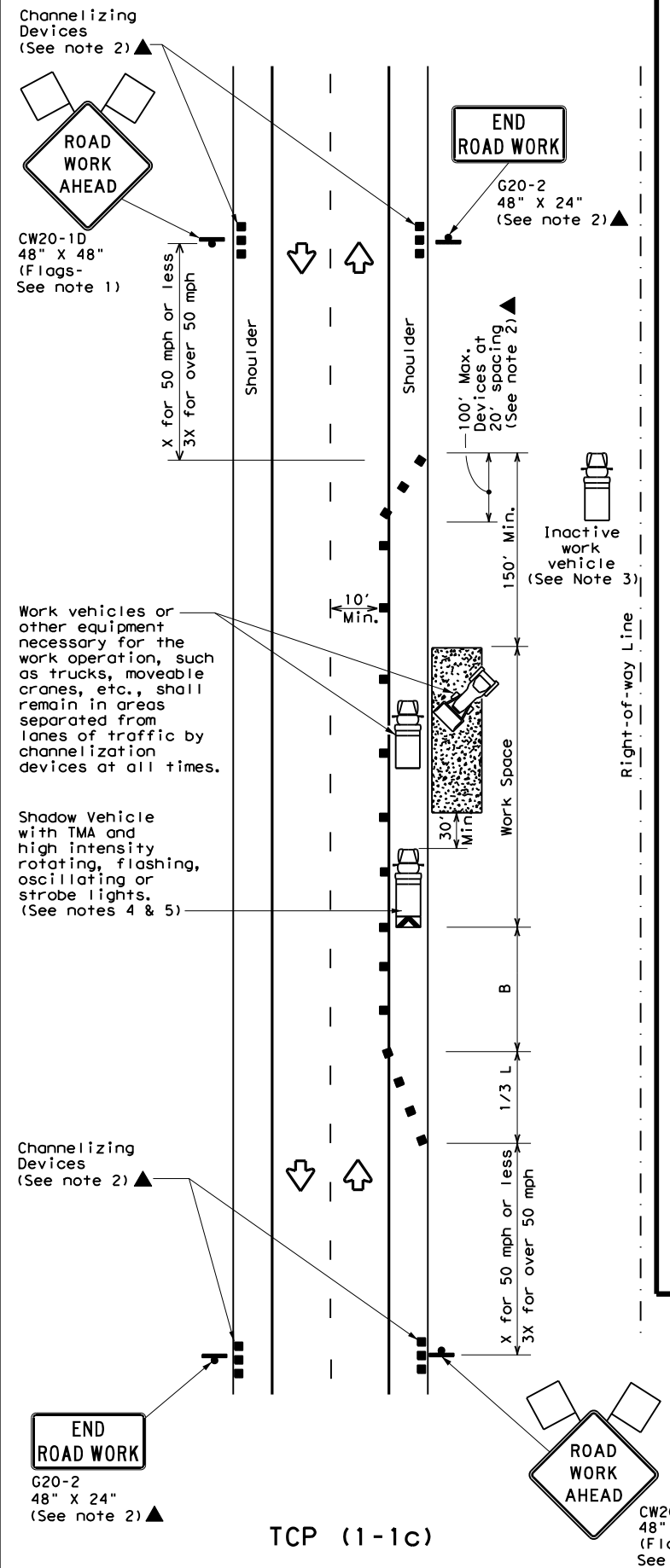
TCP (1-1a)

WORK SPACE NEAR SHOULDER
Conventional Roads



TCP (1-1b)

WORK SPACE ON SHOULDER
Conventional Roads



TCP (1-1c)

WORK VEHICLES ON SHOULDER
Conventional Roads

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

Posted Speed * S	Formula L = WS / 60	Minimum Desirable Taper Lengths **			Suggested Maximum Spacing of Channelizing Devices		Minimum Sign Spacing "X" Distance	Suggested Longitudinal Buffer Space "B"
		10' Offset	11' Offset	12' Offset	On a Taper	On a Tangent		
30		150'	165'	180'	30'	60'	120'	90'
35		205'	225'	245'	35'	70'	160'	120'
40		265'	295'	320'	40'	80'	240'	155'
45		450'	495'	540'	45'	90'	320'	195'
50		500'	550'	600'	50'	100'	400'	240'
55		550'	605'	660'	55'	110'	500'	295'
60		600'	660'	720'	60'	120'	600'	350'
65		650'	715'	780'	65'	130'	700'	410'
70		700'	770'	840'	70'	140'	800'	475'
75		750'	825'	900'	75'	150'	900'	540'

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

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

- GENERAL NOTES**
- Flags attached to signs where shown are REQUIRED.
 - All traffic control devices illustrated are REQUIRED, except those denoted with the triangle symbol may be omitted when stated elsewhere in the plans, or for routine maintenance work, when approved by the Engineer.
 - Inactive work vehicles or other equipment should be parked near the right-of-way line and not parked on the paved shoulder.
 - A Shadow Vehicle with a TMA should be used anytime it can be positioned 30 to 100 feet in advance of the area of crew exposure without adversely affecting the performance or quality of the work. If workers are no longer present but road or work conditions require the traffic control to remain in place, Type 3 Barricades or other channelizing devices may be substituted for the Shadow Vehicle and TMA.
 - Additional Shadow Vehicles with TMAs may be positioned off the paved surface, next to those shown in order to protect wider work spaces.
 - See TCP(5-1) for shoulder work on divided highways, expressways and freeways.
 - CW21-5 "SHOULDER WORK" signs may be used in place of CW20-1D "ROAD WORK AHEAD" signs for shoulder work on conventional roadways.

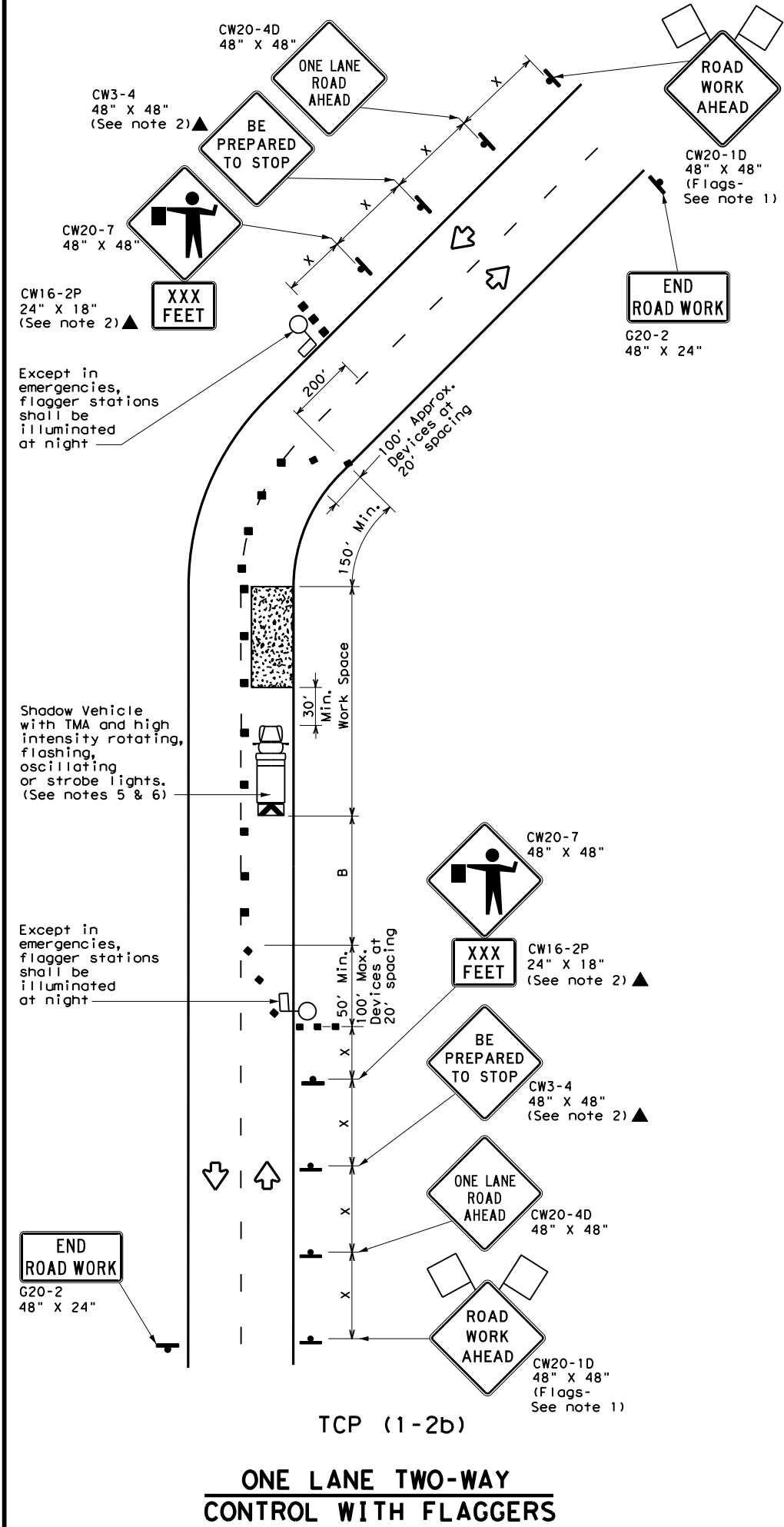
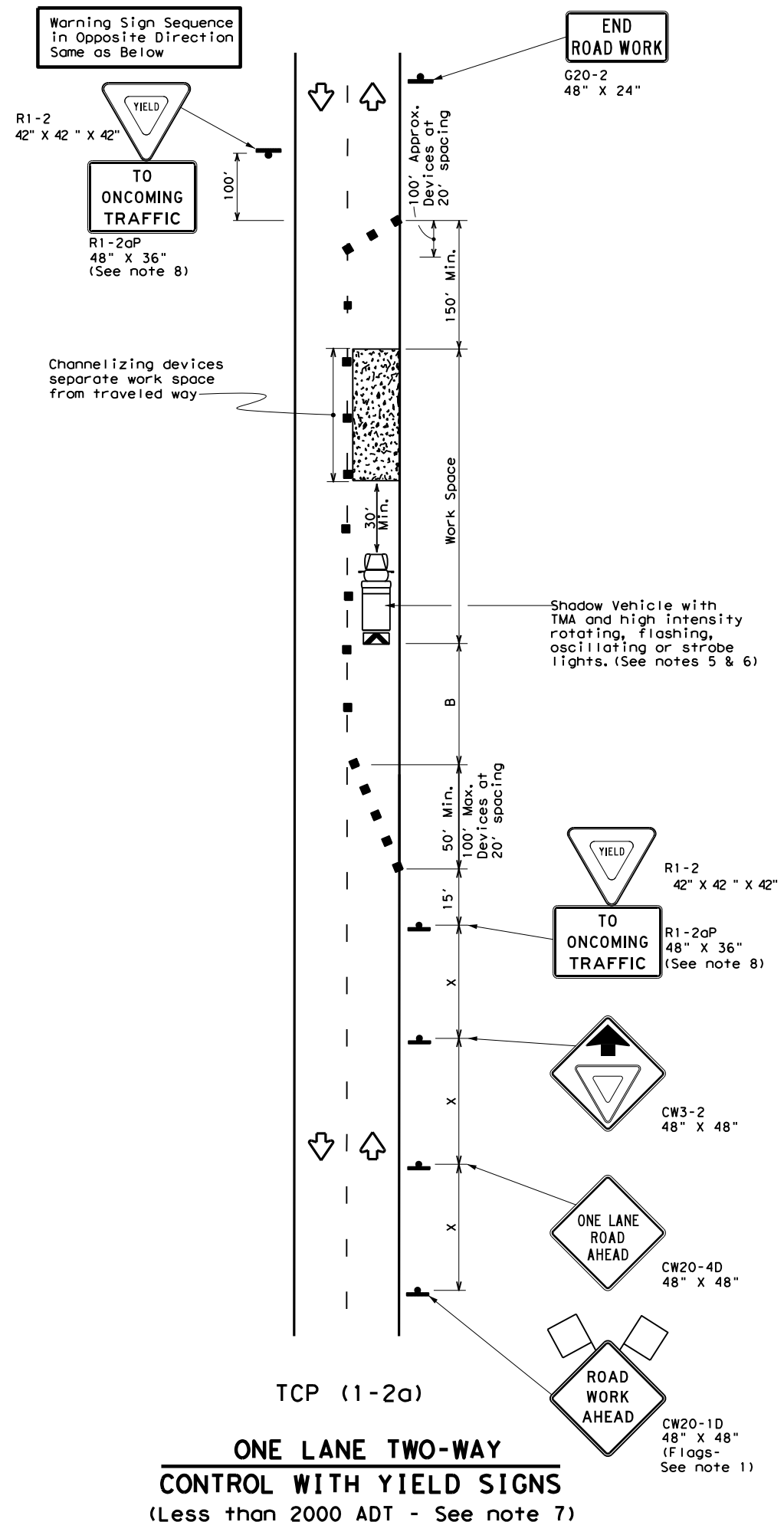
TRAFFIC CONTROL PLAN
CONVENTIONAL ROAD
SHOULDER WORK

TCP (1-1) - 18

FILE: tcp1-1-18.dgn	DN:	CK:	DW:	CK:
© TxDOT December 1985	CON:	SECT:	JOB:	HIGHWAY:
REVISIONS	6353	00	001	IH-2, ETC.
2-94 4-98	DIST:	COUNTY:	SHEET NO.:	
8-95 2-12	21	HIDALGO, ETC.	214	
1-97 2-18				

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DATE: FILE:



LEGEND

	Type 3 Barricade		Channelizing Devices
	Heavy Work Vehicle		Truck Mounted Attenuator (TMA)
	Trailer Mounted Flashing Arrow Board		Portable Changeable Message Sign (PCMS)
	Sign		Traffic Flow
	Flag		Flagger

Posted Speed * X	Formula L = WS ² / 60	Minimum Desirable Taper Lengths **			Suggested Maximum Spacing of Channelizing Devices		Minimum Sign Spacing "X" Distance	Suggested Longitudinal Buffer Space "B"	Stopping Sight Distance
		10' Offset	11' Offset	12' Offset	On a Taper	On a Tangent			
30	L = WS ² / 60	150'	165'	180'	30'	60'	120'	90'	200'
35		205'	225'	245'	35'	70'	160'	120'	250'
40		265'	295'	320'	40'	80'	240'	155'	305'
45		450'	495'	540'	45'	90'	320'	195'	360'
50	L = WS	500'	550'	600'	50'	100'	400'	240'	425'
55		550'	605'	660'	55'	110'	500'	295'	495'
60		600'	660'	720'	60'	120'	600'	350'	570'
65		650'	715'	780'	65'	130'	700'	410'	645'
70		700'	770'	840'	70'	140'	800'	475'	730'
75		750'	825'	900'	75'	150'	900'	540'	820'

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

TYPICAL USAGE

MOBILE	SHORT DURATION	SHORT TERM STATIONARY	INTERMEDIATE TERM STATIONARY	LONG TERM STATIONARY
	✓	✓		

GENERAL NOTES

- Flags attached to signs where shown are REQUIRED.
- All traffic control devices illustrated are REQUIRED, except those denoted with the triangle symbol may be omitted when stated elsewhere in the plans, or for routine maintenance work, when approved by the Engineer.
- The CW3-4 "BE PREPARED TO STOP" sign may be installed after the CW20-4D "ONE LANE ROAD AHEAD" sign, but proper sign spacing shall be maintained.
- Sign spacing may be increased or an additional CW20-1D "ROAD WORK AHEAD" sign may be used if advance warning ahead of the flagger or R1-2 "YIELD" sign is less than 150 feet.
- A Shadow Vehicle with a TMA should be used anytime it can be positioned 30 to 100 feet in advance of the area of crew exposure without adversely affecting the performance or quality of the work. If workers are no longer present but road or work conditions require the traffic control to remain in place, Type 3 Barricades or other channelizing devices may be substituted for the Shadow Vehicle and TMA.
- Additional Shadow Vehicles with TMAs may be positioned off the paved surface, next to those shown in order to protect wider work spaces.

TCP (1-2a)

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

TCP (1-2b)

- Flaggers should use two-way radios or other methods of communication to control traffic.
- Length of work space should be based on the ability of flaggers to communicate.
- If the work space is located near a horizontal or vertical curve, the buffer distances should be increased in order to maintain adequate stopping sight distance to the flagger and a queue of stopped vehicles (see table above).
- Channelizing devices on the center-line may be omitted when a pilot car is leading traffic and approved by the Engineer.
- Flaggers should use 24" STOP/SLOW paddles to control traffic. Flags should be limited to emergency situations.

Texas Department of Transportation
 Traffic Operations Division Standard

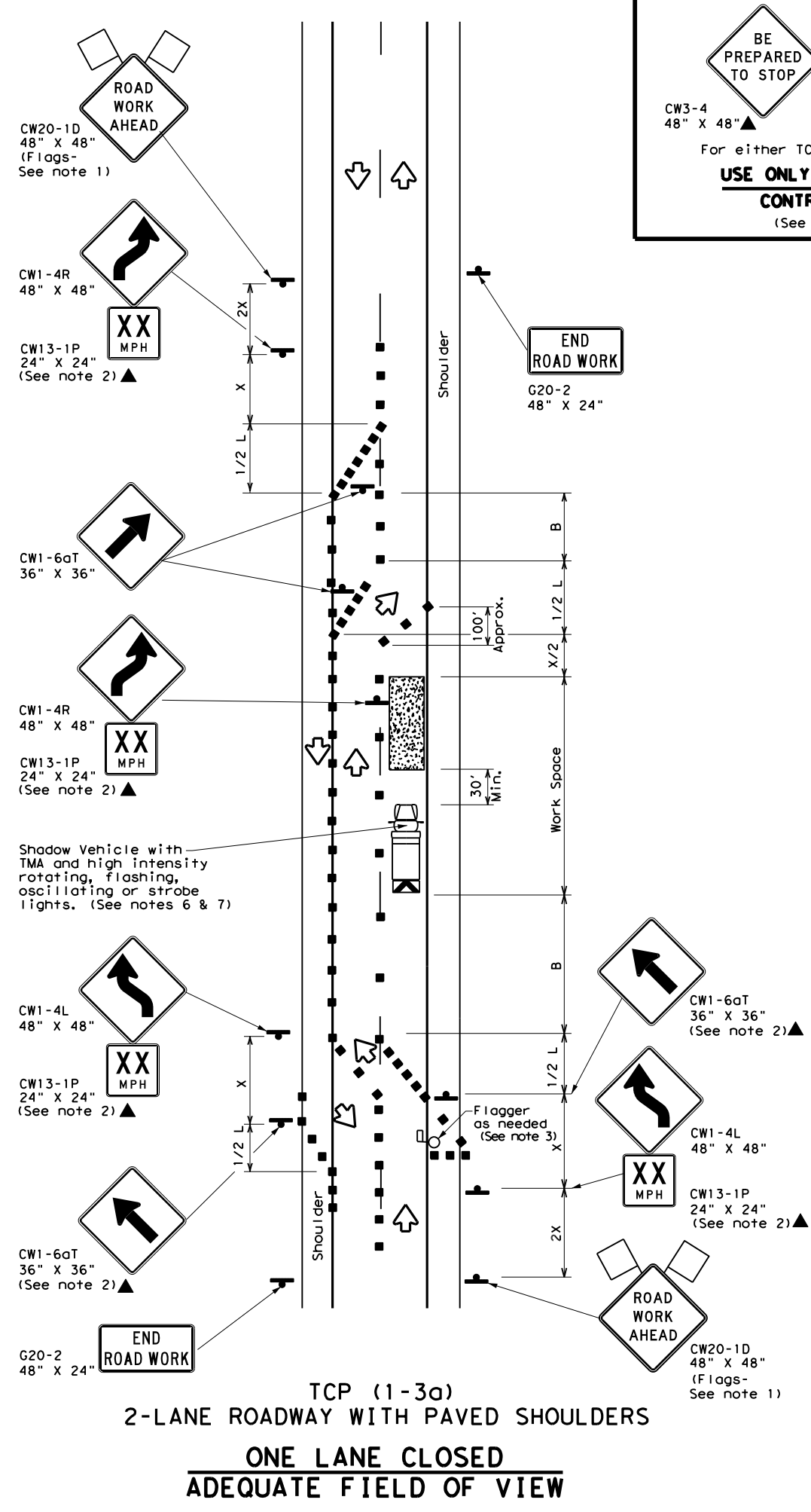
TRAFFIC CONTROL PLAN
ONE-LANE TWO-WAY
TRAFFIC CONTROL

TCP (1-2) - 18

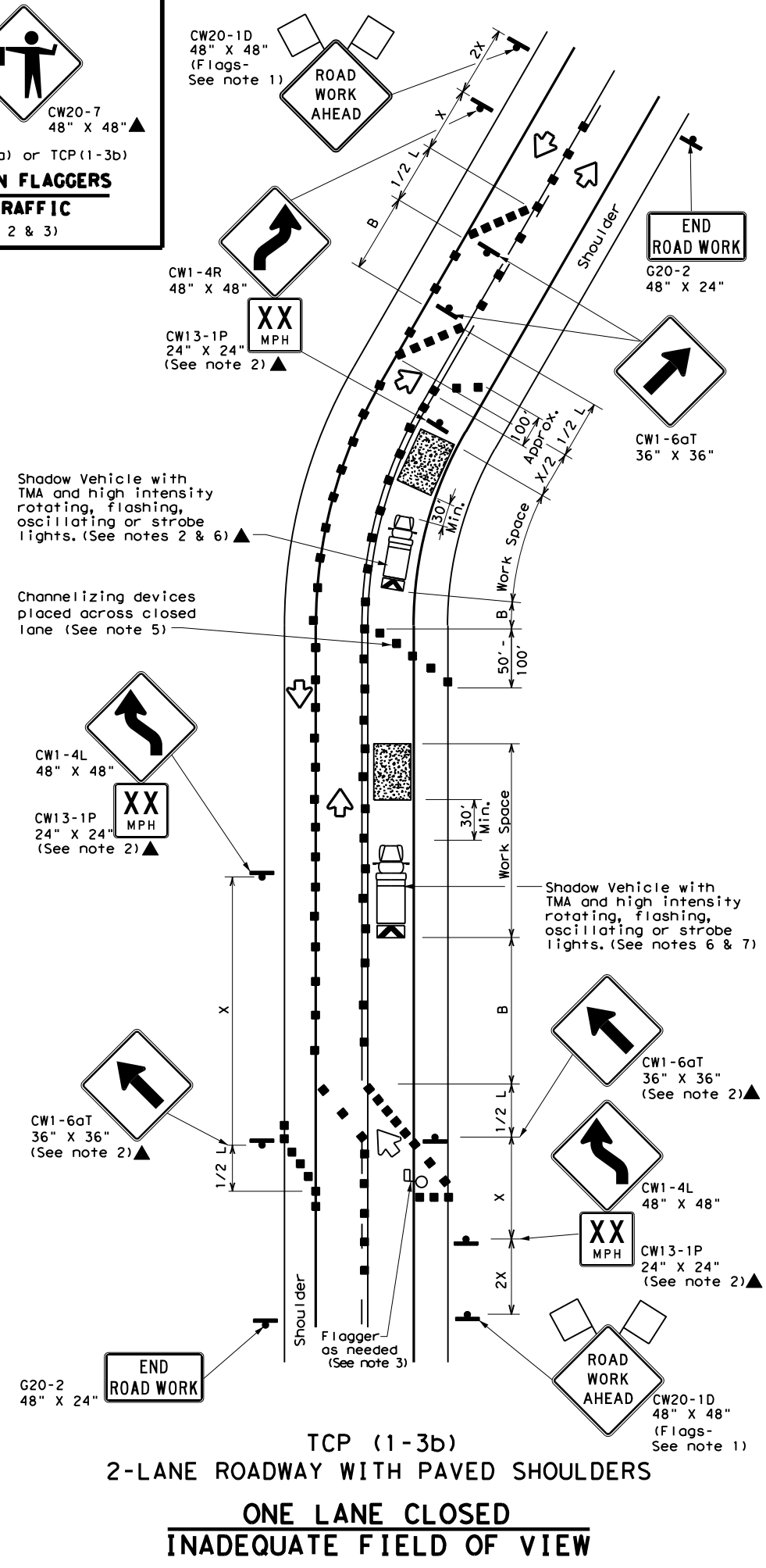
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© TxDOT December 1985	CONT	SECT	JOB	HIGHWAY
REVISIONS	6353	00	001	1H-2, ETC.
4-90 4-98	DIST	COUNTY	SHEET NO.	
2-94 2-12	21	HIDALGO, ETC.	215	
1-97 2-18				

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DATE: FILE:



BE PREPARED TO STOP
CW3-4 (48" x 48")
CW20-7 (48" x 48")
For either TCP(1-3a) or TCP(1-3b)
USE ONLY WHEN FLAGGERS CONTROL TRAFFIC
(See Notes 2 & 3)



LEGEND

	Type 3 Barricade		Channelizing Devices
	Heavy Work Vehicle		Truck Mounted Attenuator (TMA)
	Trailer Mounted Flashing Arrow Board		Portable Changeable Message Sign (PCMS)
	Sign		Traffic Flow
	Flag		Flagger

Posted Speed *	Formula	Minimum Desirable Taper Lengths **			Suggested Maximum Spacing of Channelizing Devices		Minimum Sign Spacing "X" Distance	Suggested Longitudinal Buffer Space "B"
		10' Offset	11' Offset	12' Offset	On a Taper	On a Tangent		
30	$L = \frac{WS^2}{60}$	150'	165'	180'	30'	60'	120'	90'
35		205'	225'	245'	35'	70'	160'	120'
40		265'	295'	320'	40'	80'	240'	155'
45	$L = WS$	450'	495'	540'	45'	90'	320'	195'
50		500'	550'	600'	50'	100'	400'	240'
55		550'	605'	660'	55'	110'	500'	295'
60		600'	660'	720'	60'	120'	600'	350'
65		650'	715'	780'	65'	130'	700'	410'
70		700'	770'	840'	70'	140'	800'	475'
75		750'	825'	900'	75'	150'	900'	540'

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

TYPICAL USAGE

MOBILE	SHORT DURATION	SHORT TERM STATIONARY	INTERMEDIATE TERM STATIONARY	LONG TERM STATIONARY
	✓	✓		

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

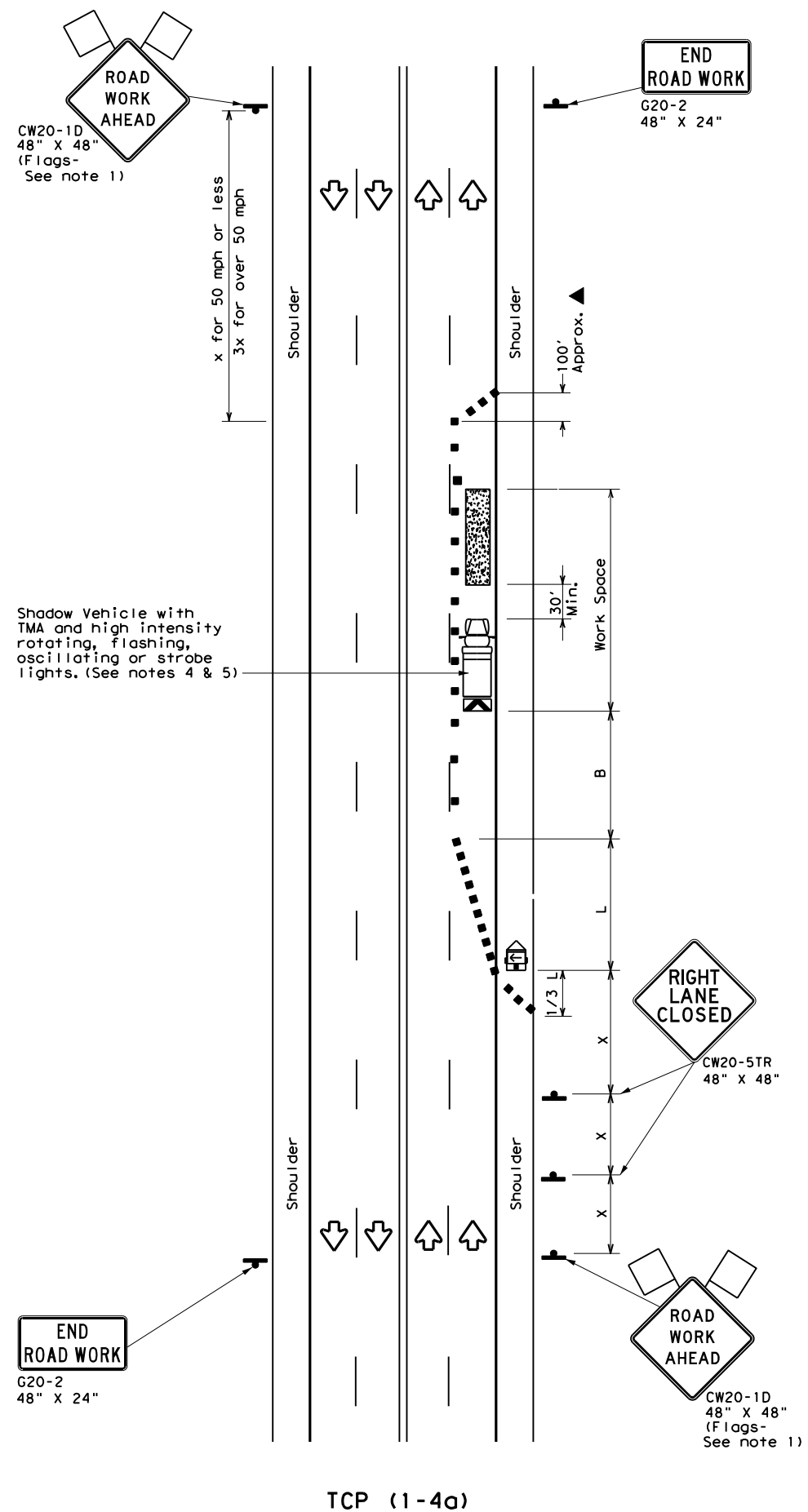
Texas Department of Transportation
Traffic Operations Division Standard

TRAFFIC CONTROL PLAN
TRAFFIC SHIFTS ON
TWO LANE ROADS
TCP(1-3)-18

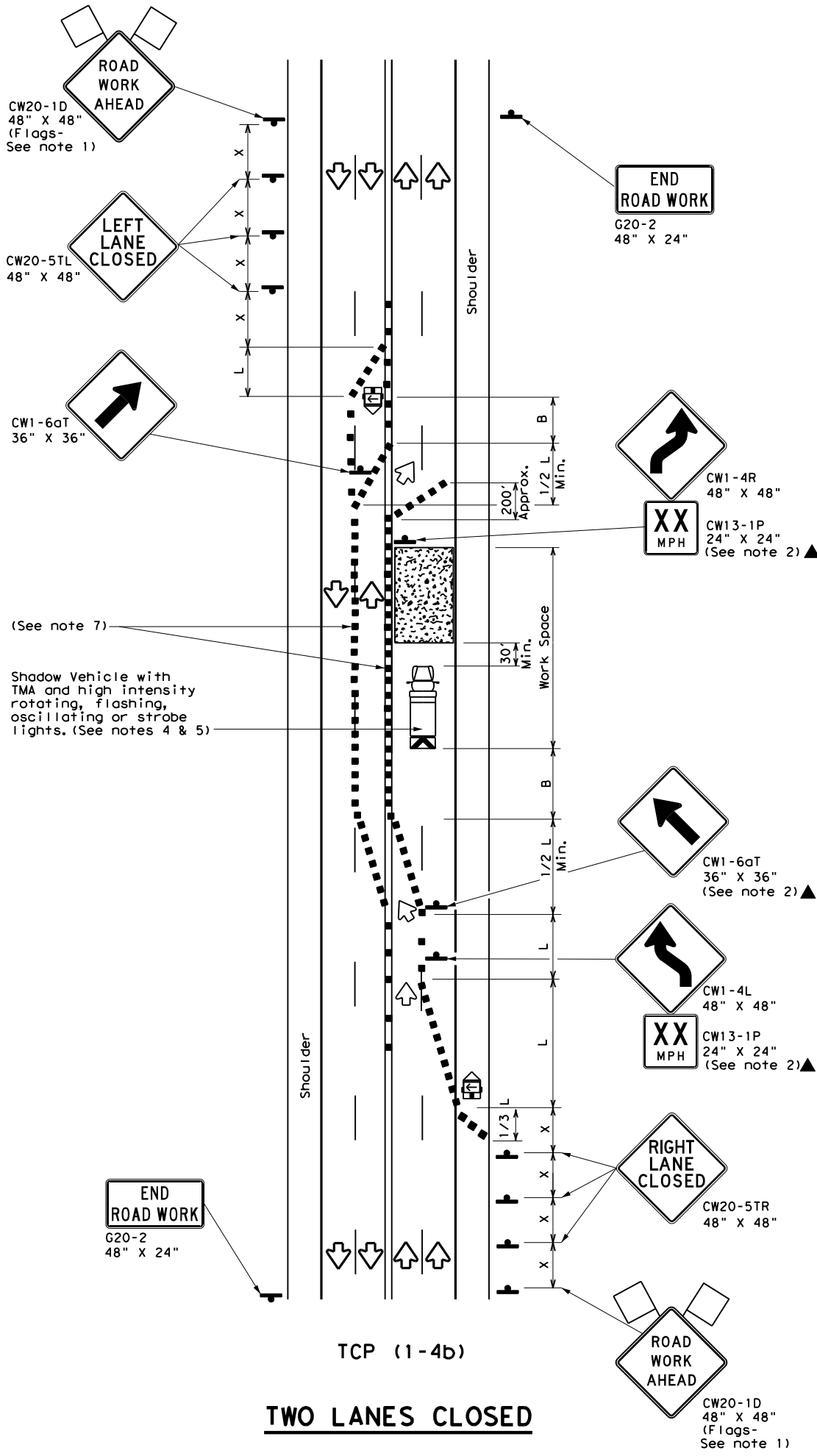
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© TxDOT December 1985	CONT	SECT	JOB	HIGHWAY
REVISIONS	6353	00	001	1H-2, ETC.
2-94 4-98	DIST	COUNTY	SHEET NO.	
8-95 2-12	21	HIDALGO, ETC.	216	
1-97 2-18				

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DATE: FILE:



TCP (1-4a)
ONE LANE CLOSED



TCP (1-4b)
TWO LANES CLOSED

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

Posted Speed *	Formula	Minimum Desirable Taper Lengths **			Suggested Maximum Spacing of Channelizing Devices		Minimum Sign Spacing "X" Distance	Suggested Longitudinal Buffer Space "B"
		10' Offset	11' Offset	12' Offset	On a Taper	On a Tangent		
30	$L = \frac{WS^2}{60}$	150'	165'	180'	30'	60'	120'	90'
35		205'	225'	245'	35'	70'	160'	120'
40		265'	295'	320'	40'	80'	240'	155'
45	$L = WS$	450'	495'	540'	45'	90'	320'	195'
50		500'	550'	600'	50'	100'	400'	240'
55		550'	605'	660'	55'	110'	500'	295'
60		600'	660'	720'	60'	120'	600'	350'
65		650'	715'	780'	65'	130'	700'	410'
70		700'	770'	840'	70'	140'	800'	475'
75		750'	825'	900'	75'	150'	900'	540'

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

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

- GENERAL NOTES**
- Flags attached to signs where shown are REQUIRED.
 - All traffic control devices illustrated are REQUIRED, except those denoted with the triangle symbol may be omitted when stated elsewhere in the plans, or for routine maintenance work, when approved by the Engineer.
 - The CW20-1D "ROAD WORK AHEAD" sign may be repeated if the visibility of the work zone is less than 1500 feet.
 - A Shadow Vehicle with a TMA should be used anytime it can be positioned 30 to 100 feet in advance of the area of crew exposure without adversely affecting the performance or quality of the work. If workers are no longer present but road or work conditions require the traffic control to remain in place, Type 3 Barricades or other channelizing devices may be substituted for the Shadow Vehicle and TMA.
 - Additional Shadow Vehicles with TMAs may be positioned off the paved surface, next to those shown in order to protect wider work spaces.

TCP (1-4a)

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

TCP (1-4b)

- Where traffic is directed over a yellow centerline, channelizing devices which separate two-way traffic should be spaced on tapers at 20' or 15' if posted speeds are 35 mph or slower, and for tangent sections, at 1/2S where S is the speed in mph. This tighter device spacing is intended for the areas of conflicting markings, not the entire work zone.

Texas Department of Transportation Traffic Operations Division Standard

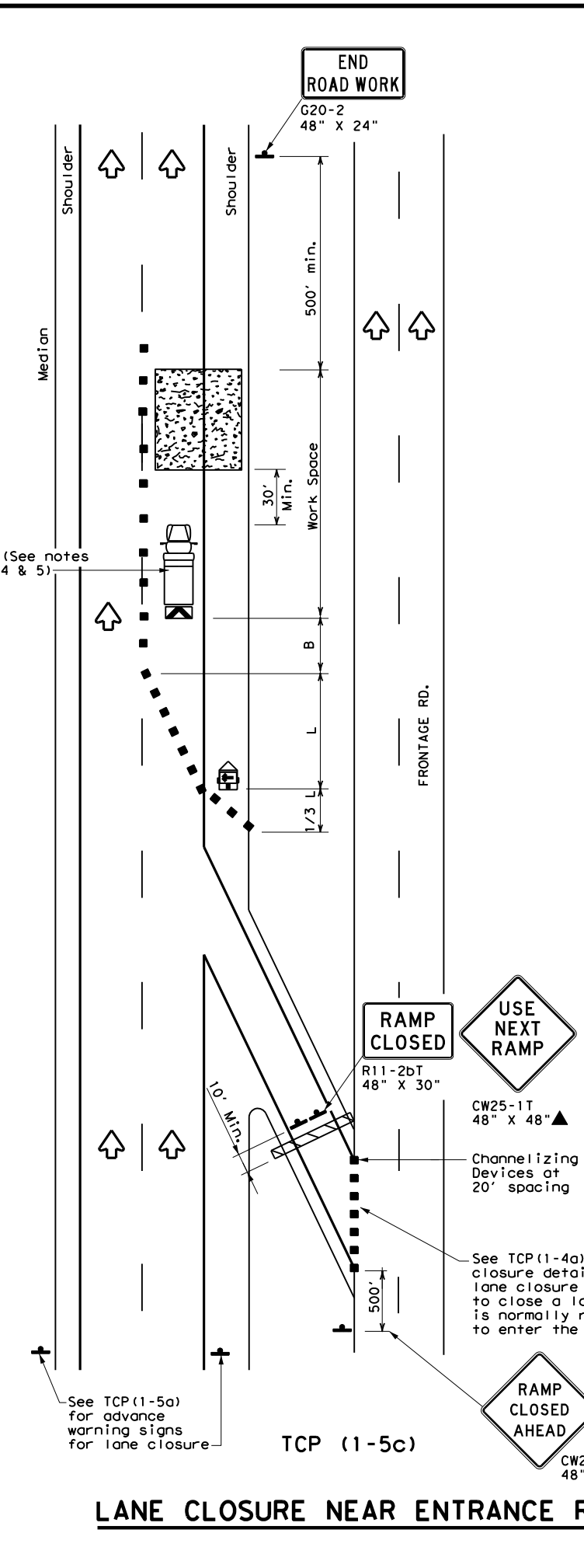
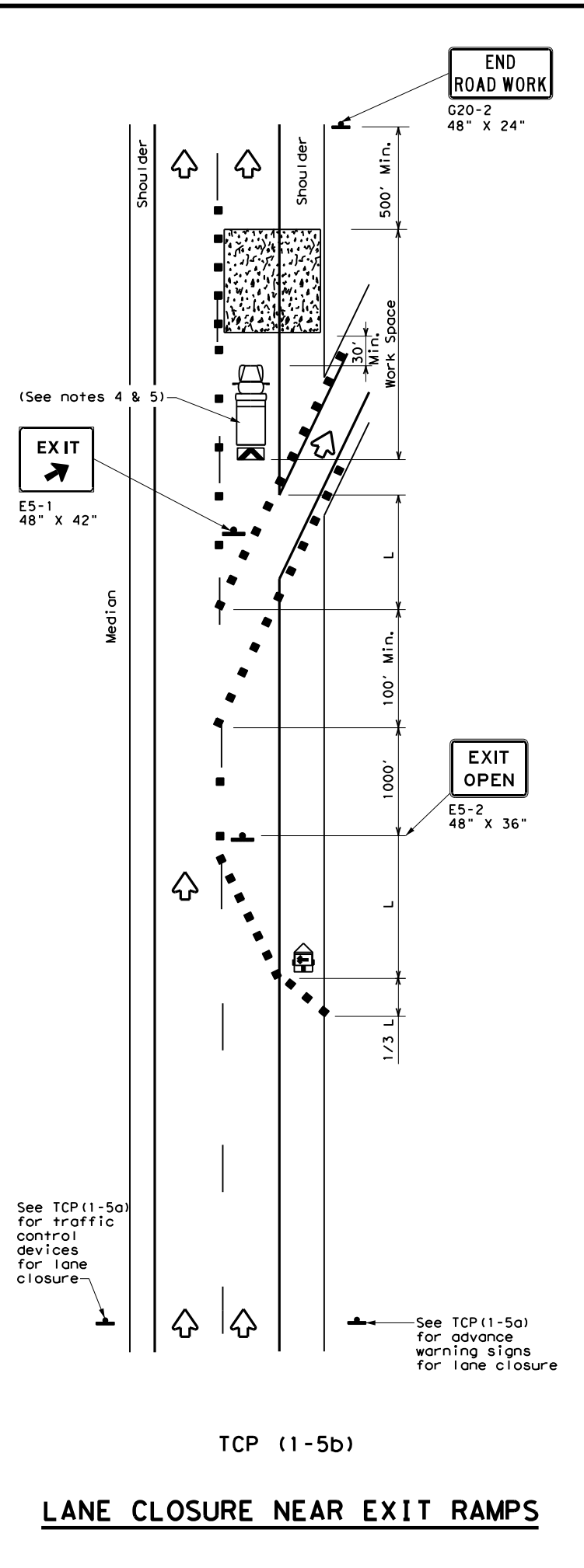
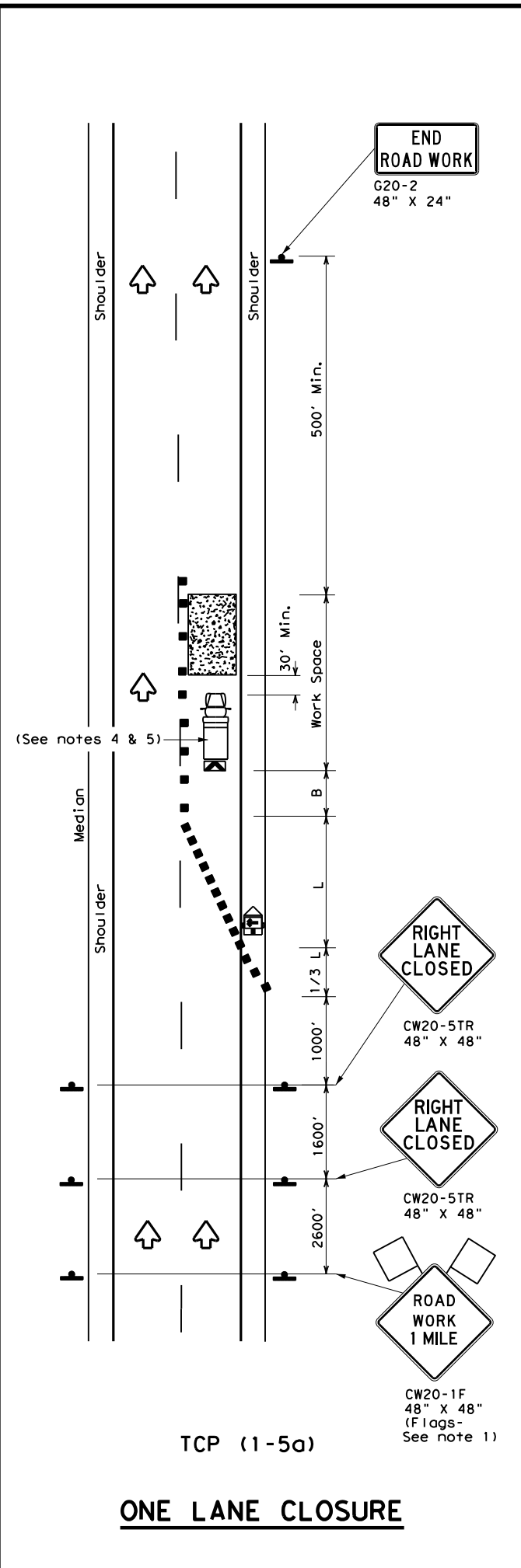
**TRAFFIC CONTROL PLAN
LANE CLOSURES ON MULTILANE
CONVENTIONAL ROADS**

TCP (1-4) - 18

FILE: tcp1-4-18.dgn	DN:	CK:	DW:	CK:
© TxDOT December 1985	CONT	SECT	JOB	HIGHWAY
REVISIONS	6353 00	001	1H-2, ETC.	
2-94 4-98				
8-95 2-12				
1-97 2-18				
	DIST	COUNTY	SHEET NO.	
	21	HIDALGO, ETC.	217	

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FILE:



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

Posted Speed *	Formula	Minimum Desirable Taper Lengths **			Suggested Maximum Spacing of Channelizing Devices		Minimum Sign Spacing "X" Distance	Suggested Longitudinal Buffer Space "B"
		10' Offset	11' Offset	12' Offset	On a Taper	On a Tangent		
30	$L = \frac{WS^2}{60}$	150'	165'	180'	30'	60'	120'	90'
35		205'	225'	245'	35'	70'	160'	120'
40		265'	295'	320'	40'	80'	240'	155'
45	L = WS	450'	495'	540'	45'	90'	320'	195'
50		500'	550'	600'	50'	100'	400'	240'
55		550'	605'	660'	55'	110'	500'	295'
60		600'	660'	720'	60'	120'	600'	350'
65		650'	715'	780'	65'	130'	700'	410'
70		700'	770'	840'	70'	140'	800'	475'
75		750'	825'	900'	75'	150'	900'	540'

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

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

- GENERAL NOTES**
- Flags attached to signs where shown, are REQUIRED.
 - All traffic control devices illustrated are REQUIRED, except those denoted with the triangle symbol may be omitted when stated elsewhere in the plans, or for routine maintenance work, when approved by the Engineer.
 - Channelizing devices used to close lanes may be supplemented with the Chevron Alignment Sign placed on every other channelizing device. Chevrons may be attached to plastic drums as per BC Standards.
 - Shadow Vehicle with TMA and high intensity rotating, flashing, oscillating or strobe lights. A Shadow Vehicle with a TMA should be used anytime it can be positioned 30 to 100 feet in advance of the area of crew exposure without adversely affecting the performance or quality of the work. If workers are no longer present but road or work conditions require the traffic control to remain in place, Type 3 Barricades or other channelizing devices may be substituted for the Shadow Vehicle and TMA.
 - Additional Shadow Vehicles with TMAs may be positioned in each closed lane, on the shoulder or off the paved surface, next to those shown in order to protect a wider work space.

Texas Department of Transportation
 Traffic Operations Division Standard

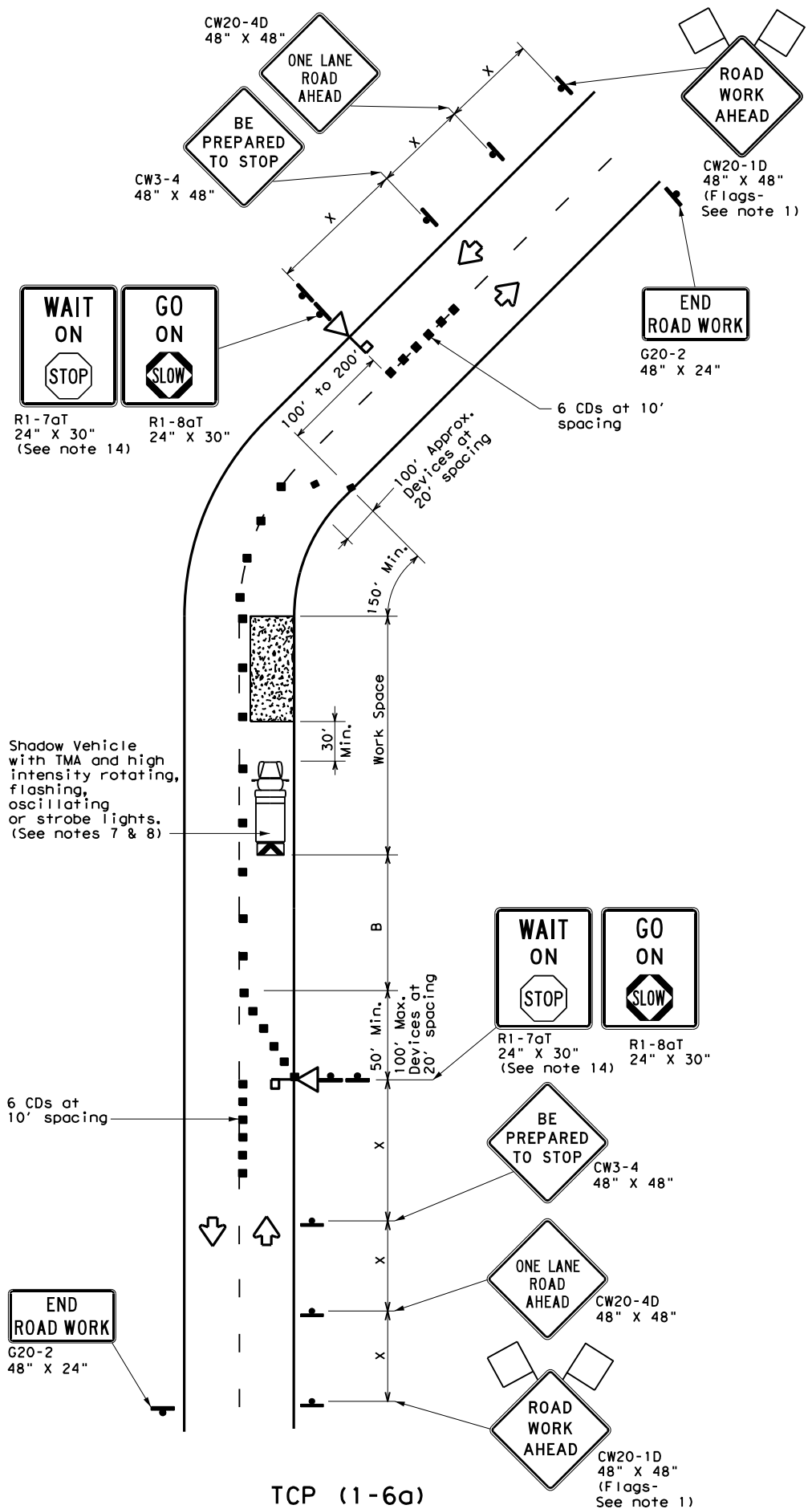
TRAFFIC CONTROL PLAN LANE CLOSURES FOR DIVIDED HIGHWAYS

TCP (1-5) - 18

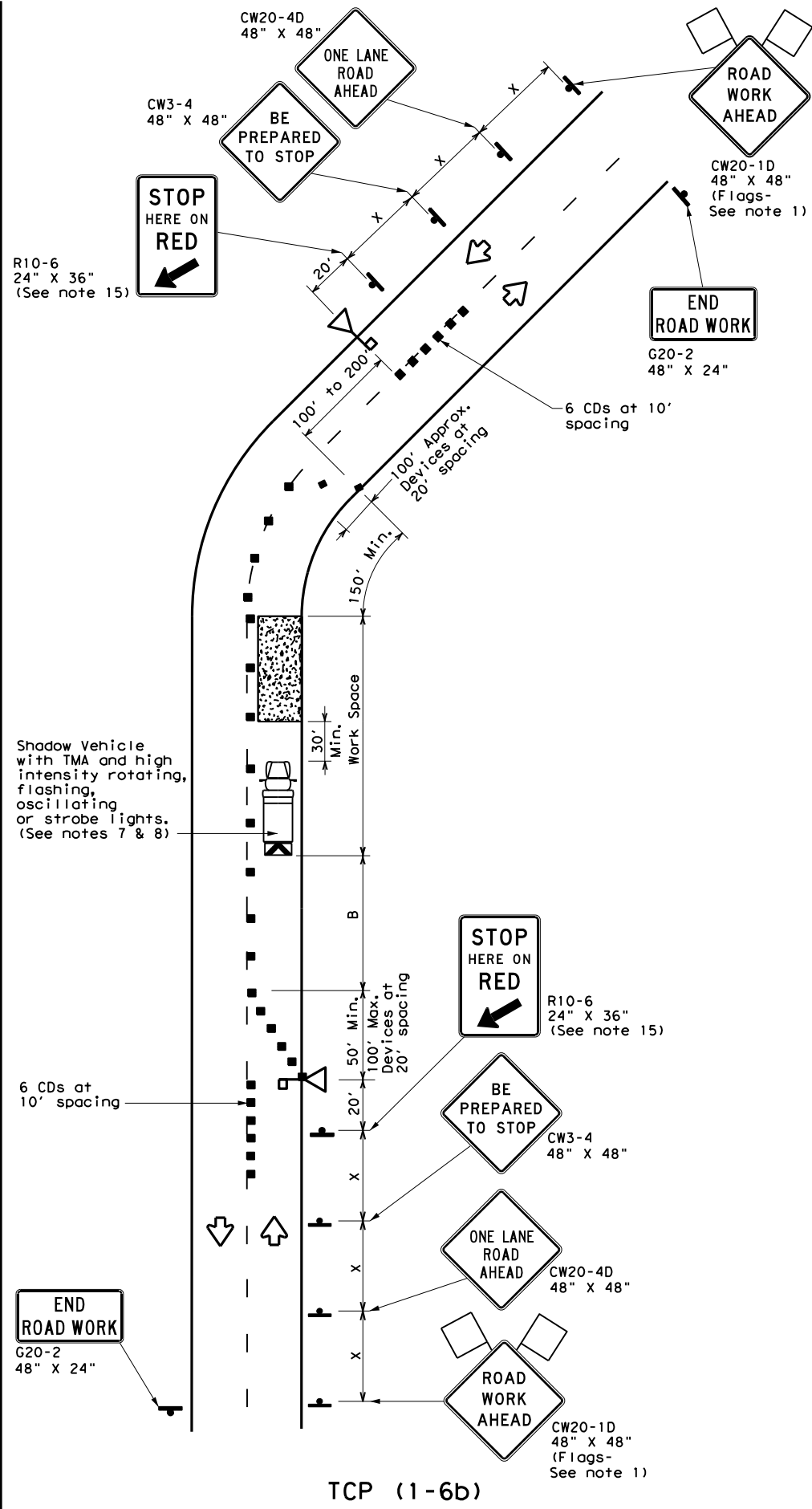
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© TxDOT February 2012	CONT	SECT	JOB	HIGHWAY
2-18	REVISIONS	6353 00	001	1H-2, ETC.
	DIST	COUNTY	SHEET NO.	
	21	HIDALGO, ETC.	218	

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TCP (1-6a)
ONE LANE TWO-WAY CONTROL WITH STOP/SLOW AFADS



TCP (1-6b)
ONE LANE TWO-WAY CONTROL WITH RED/YELLOW LENS AFADS

LEGEND			
	Type 3 Barricade		Channelizing Devices (CDs)
	Heavy Work Vehicle		Truck Mounted Attenuator (TMA)
	Automated Flagger Assistance Device (AFAD)		Portable Changeable Message Sign (PCMS)
	Sign		Traffic Flow
	Flag		Flagger

Posted Speed *	Formula	Minimum Desirable Taper Lengths **			Suggested Maximum Spacing of Channelizing Devices		Minimum Sign Spacing "x" Distance	Suggested Longitudinal Buffer Space "B"	Stopping Sight Distance
		10' Offset	11' Offset	12' Offset	On a Taper	On a Tangent			
30	$L = \frac{WS^2}{60}$	150'	165'	180'	30'	60'	120'	90'	200'
35		205'	225'	245'	35'	70'	160'	120'	250'
40		265'	295'	320'	40'	80'	240'	155'	305'
45	L = WS	450'	495'	540'	45'	90'	320'	195'	360'
50		500'	550'	600'	50'	100'	400'	240'	425'
55		550'	605'	660'	55'	110'	500'	295'	495'
60		600'	660'	720'	60'	120'	600'	350'	570'
65		650'	715'	780'	65'	130'	700'	410'	645'
70		700'	770'	840'	70'	140'	800'	475'	730'
75		750'	825'	900'	75'	150'	900'	540'	820'

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

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

GENERAL NOTES

- Flags attached to signs where shown are REQUIRED.
- AFADs shall only be used in situations where there is one lane of approaching traffic in the direction to be controlled.
- Adequate stopping sight distance must be provided to each AFAD location for approaching traffic. (See table above).
- Each AFAD shall be operated by a qualified/certified flagger. Flaggers operating AFADs shall not leave them unattended while they are in use.
- One flagger may operate two AFADs only when the flagger has an unobstructed view of both AFADs and of the approaching traffic in both directions.
- When pilot cars are used, a flagger controlling traffic shall be located on each approach. AFADs shall not be operated by the pilot car operator.
- All AFADs shall be equipped with gate arms with an orange or fluorescent red-orange flag attached to the end of the gate arm. The flag shall be a minimum of 16" square.
- A Shadow Vehicle with a TMA should be used anytime it can be positioned 30 to 100 feet in advance of the area of crew exposure without adversely affecting the performance or quality of the work. If workers are no longer present but road or work conditions require the traffic control to remain in place, Type 3 Barricades or other channelizing devices may be substituted for the Shadow Vehicle and TMA.
- Additional Shadow Vehicles with TMAs may be positioned off the paved surface, next to those shown in order to protect wider work spaces.
- Flaggers should use two-way radios or other methods of communication to control traffic.
- Length of work space should be based on the ability of flaggers to communicate.
- If the work space is located near a horizontal or vertical curve, the buffer distances should be increased in order to maintain stopping sight distance to the AFAD.
- Channelizing devices on the center line may be omitted when a pilot car is leading traffic and approved by the Engineer.
- The R1-7aT "WAIT ON STOP" sign and the R1-8aT "GO ON SLOW" sign shall be installed at the AFAD location on separate supports or they may be fabricated as one 48" x 30" sign. They shall not obscure the face of the STOP/SLOW AFAD.
- The R10-6 "STOP HERE ON RED" arrow sign shall be offset so as not to obscure the lenses of the AFAD.

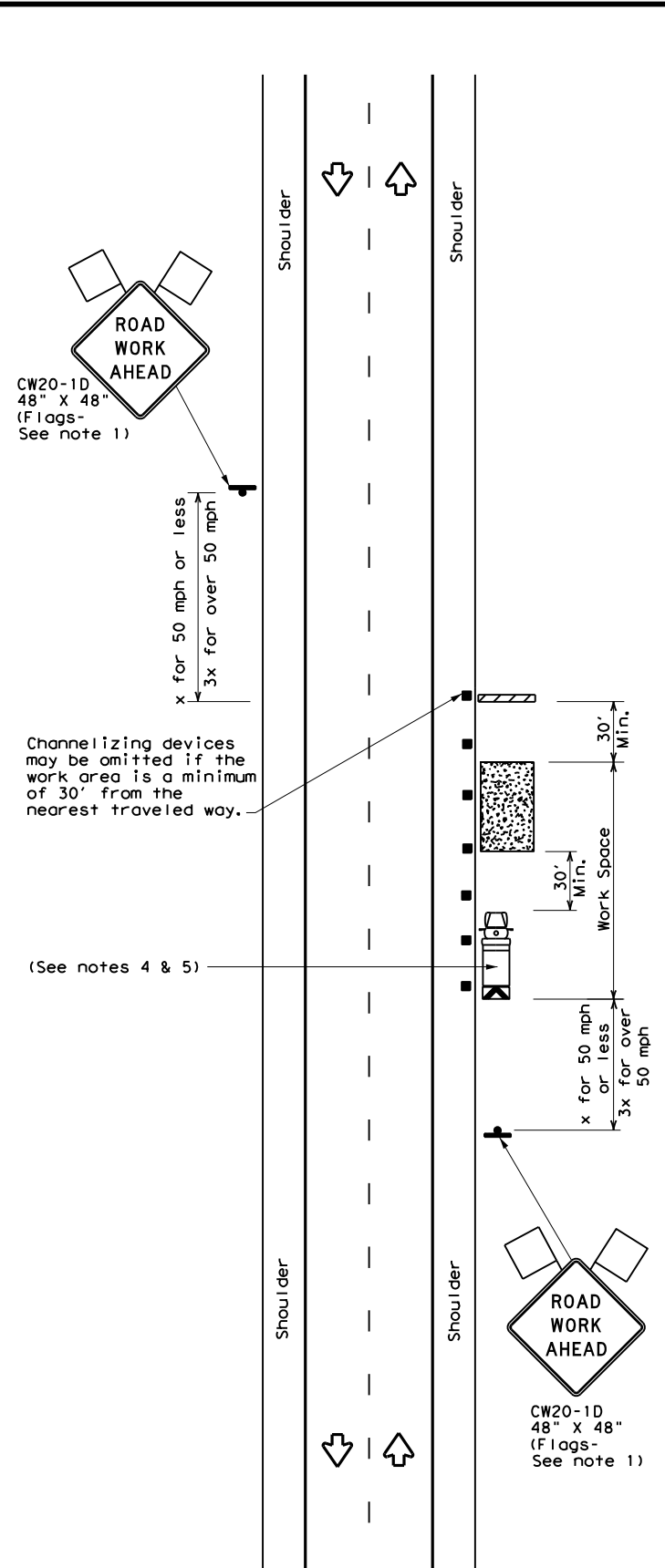
Texas Department of Transportation
 Traffic Operations Division Standard

TRAFFIC CONTROL PLAN AUTOMATED FLAGGER ASSISTANCE DEVICES (AFADS)

TCP (1-6)-18

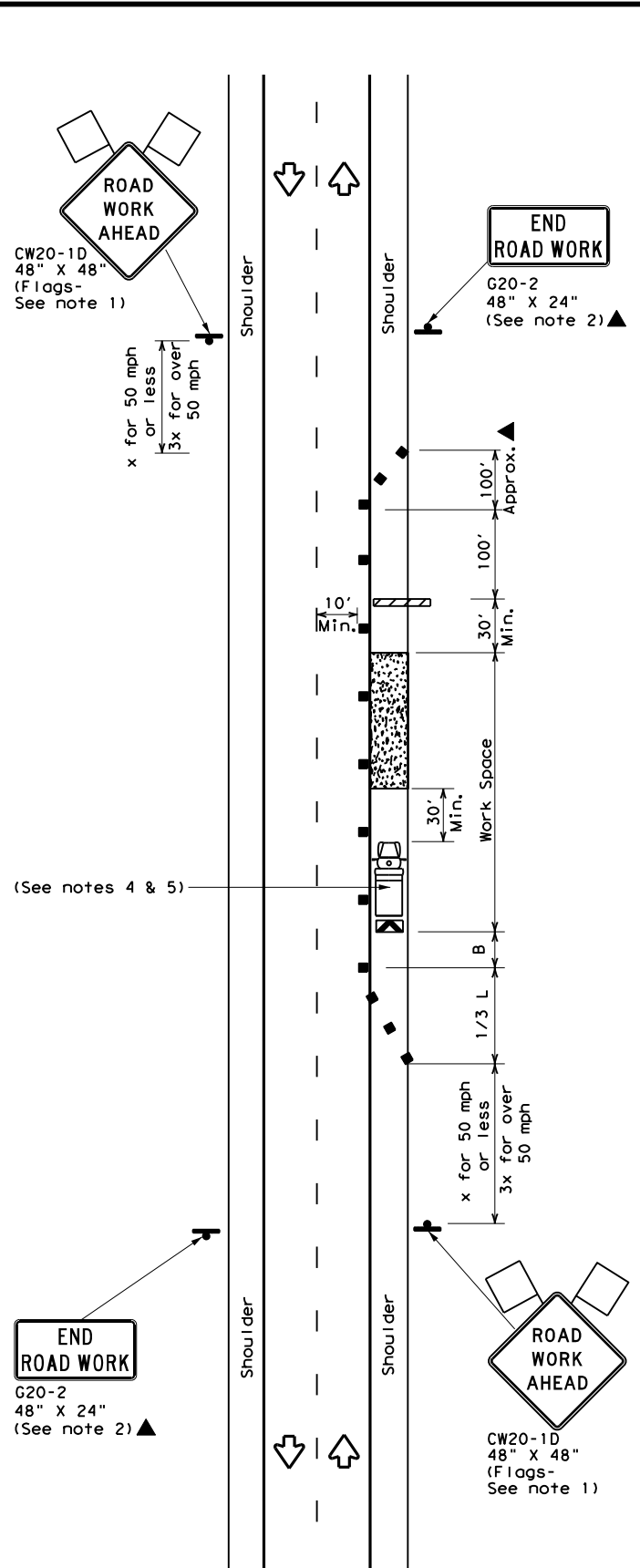
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© TxDOT February 2012	CONT	SECT	JOB	HIGHWAY
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2-18	DIST	COUNTY	SHEET NO.	
	21	HIDALGO, ETC.	219	

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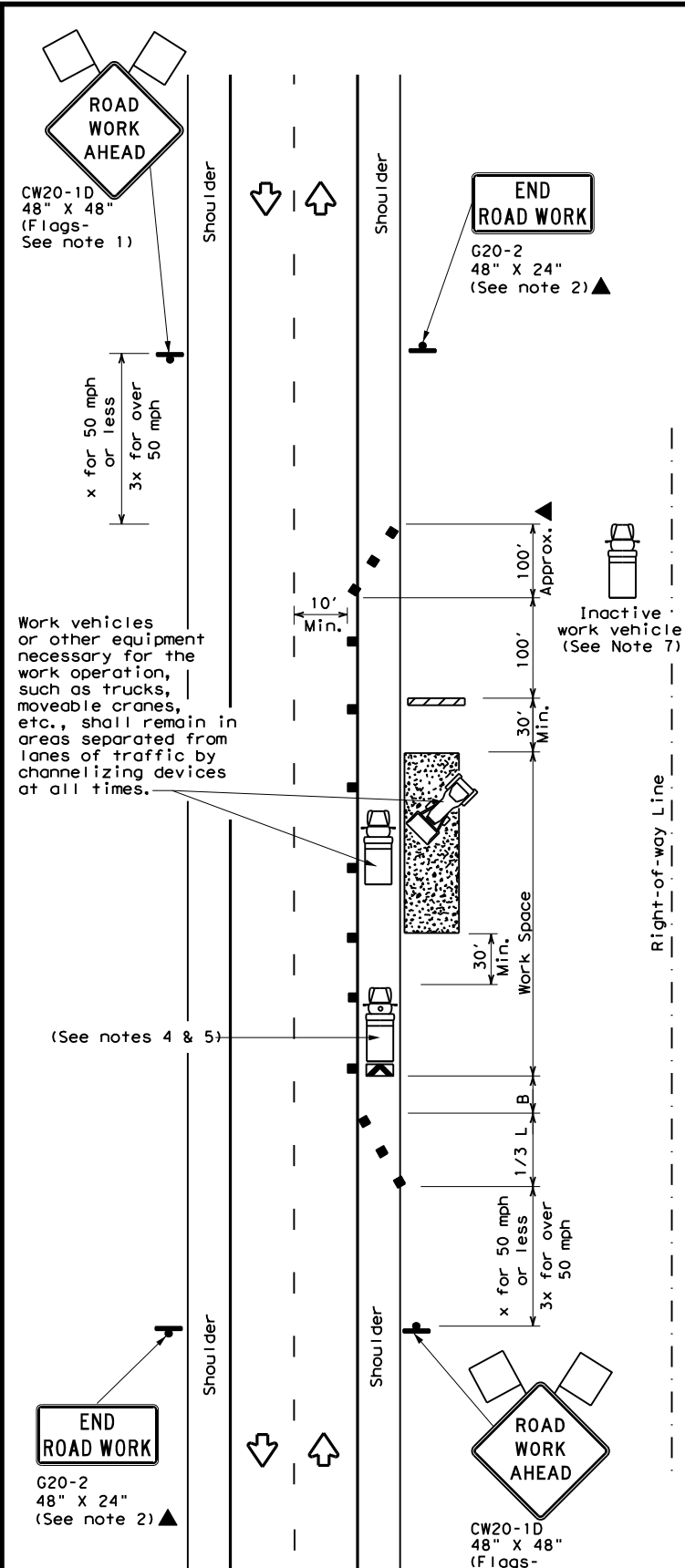
TCP (2-1a)

WORK SPACE NEAR SHOULDER
Conventional Roads



TCP (2-1b)

WORK SPACE ON SHOULDER
Conventional Roads



TCP (2-1c)

WORK VEHICLES ON SHOULDER
Conventional Roads

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

Posted Speed *	Formula	Minimum Desirable Taper Lengths **			Suggested Maximum Spacing of Channelizing Devices		Minimum Sign Spacing "X" Distance	Suggested Longitudinal Buffer Space "B"
		10' Offset	11' Offset	12' Offset	On a Taper	On a Tangent		
30	$L = \frac{WS^2}{60}$	150'	165'	180'	30'	60'	120'	90'
35		205'	225'	245'	35'	70'	160'	120'
40		265'	295'	320'	40'	80'	240'	155'
45	L = WS	450'	495'	540'	45'	90'	320'	195'
50		500'	550'	600'	50'	100'	400'	240'
55		550'	605'	660'	55'	110'	500'	295'
60		600'	660'	720'	60'	120'	600'	350'
65		650'	715'	780'	65'	130'	700'	410'
70		700'	770'	840'	70'	140'	800'	475'
75		750'	825'	900'	75'	150'	900'	540'

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

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

GENERAL NOTES

- Flags attached to signs where shown, are REQUIRED.
- All traffic control devices illustrated are REQUIRED, except those denoted with the triangle symbol may be omitted when stated in the plans, or for routine maintenance work, when approved by the Engineer.
- Stockpiled material should be placed a minimum of 30 feet from nearest traveled way.
- Shadow Vehicle with TMA and high intensity rotating, flashing, oscillating or strobe lights. A Shadow Vehicle with a TMA should be used anytime it can be positioned 30 to 100 feet in advance of the area of crew exposure without adversely affecting the performance or quality of the work. If workers are no longer present but road or work conditions require the traffic control to remain in place, Type 3 Barricades or other channelizing devices may be substituted for the Shadow Vehicle and TMA.
- Additional Shadow Vehicles with TMAs may be positioned off the paved surface, next to those shown in order to protect a wider work space.
- See TCP(5-1) for shoulder work on divided highways, expressways and freeways.
- Inactive work vehicles or other equipment should be parked near the right-of-way line and not parked on the paved shoulder.
- CW21-5 "SHOULDER WORK" signs may be used in place of CW20-1D "ROAD WORK AHEAD" signs for shoulder work on conventional roadways.



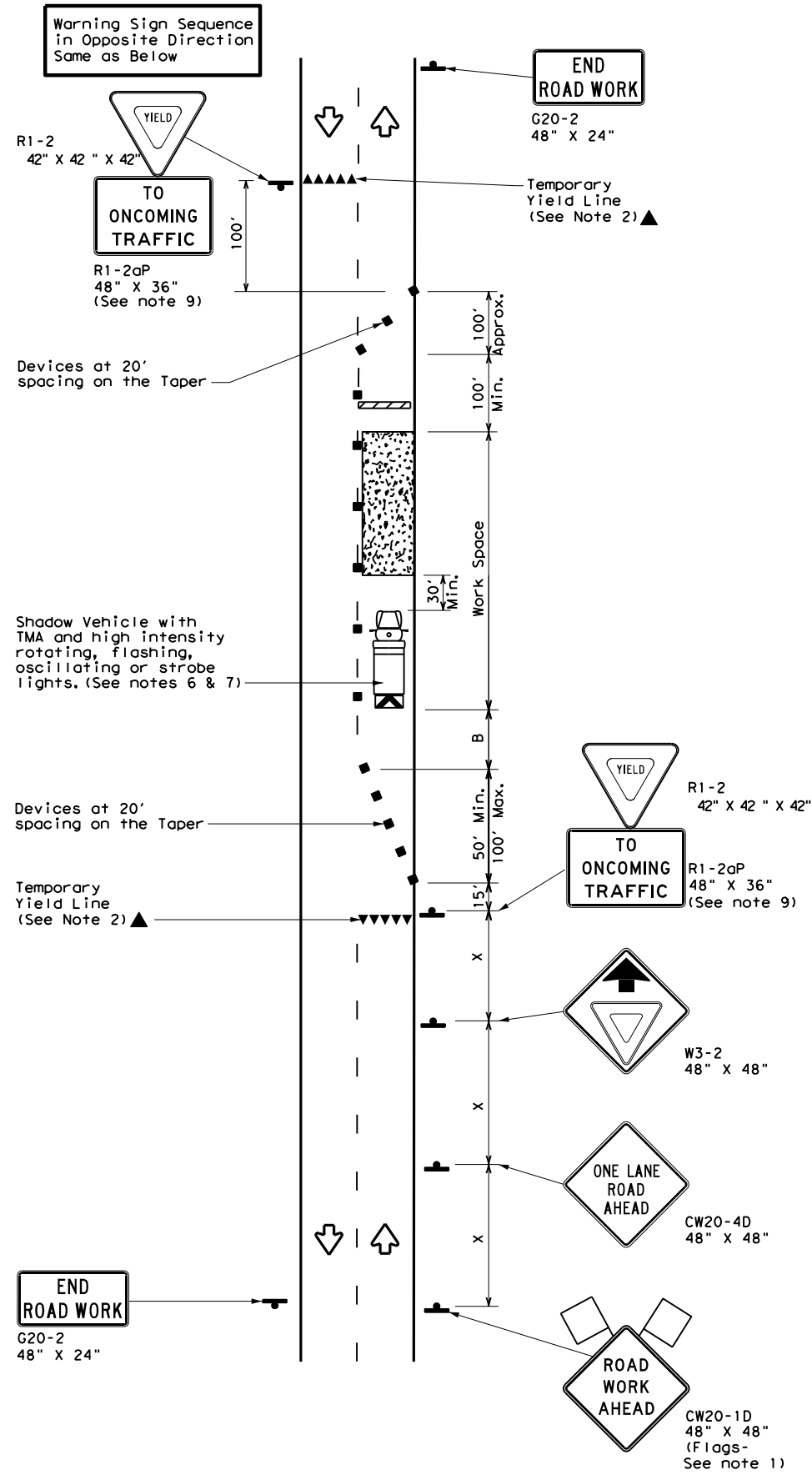
TRAFFIC CONTROL PLAN
CONVENTIONAL ROAD
SHOULDER WORK

TCP (2-1) - 18

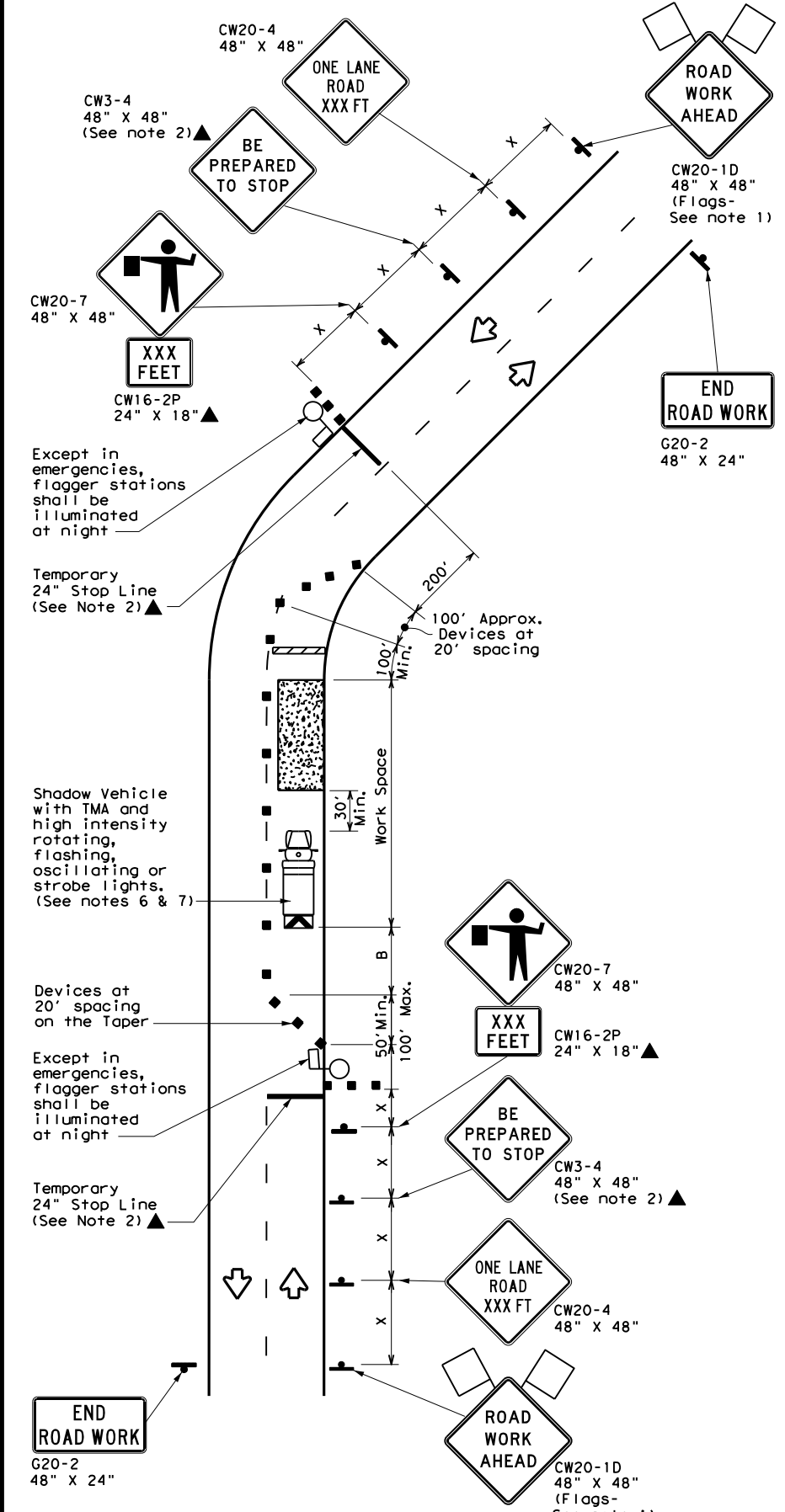
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© TxDOT December 1985	CON:	SECT:	JOB:	HIGHWAY:
REVISIONS	6353	00	001	1H-2, ETC.
2-94 4-98	DIST:	COUNTY:	SHEET NO.:	
8-95 2-12	PHARR	HIDALGO, ETC.	220	
1-97 2-18				

DATE:
FILE:

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TCP (2-2a)
2-LANE ROADWAY WITHOUT PAVED SHOULDERS
ONE LANE TWO-WAY
CONTROL WITH YIELD SIGNS
(Less than 2000 ADT - See Note 9)



TCP (2-2b)
2-LANE ROADWAY WITHOUT PAVED SHOULDERS
ONE LANE TWO-WAY
CONTROL WITH FLAGGERS

LEGEND

	Type 3 Barricade		Channelizing Devices
	Heavy Work Vehicle		Truck Mounted Attenuator (TMA)
	Trailer Mounted Flashing Arrow Board		Portable Changeable Message Sign (PCMS)
	Sign		Traffic Flow
	Flag		Flagger

Posted Speed *	Formula	Minimum Desirable Taper Lengths **			Suggested Maximum Spacing of Channelizing Devices		Minimum Sign Spacing "X" Distance	Suggested Longitudinal Buffer Space "B"	Stopping Sight Distance
		10' Offset	11' Offset	12' Offset	On a Taper	On a Tangent			
30	L = WS ² / 60	150'	165'	180'	30'	60'	120'	90'	200'
35		205'	225'	245'	35'	70'	160'	120'	250'
40		265'	295'	320'	40'	80'	240'	155'	305'
45	L = WS	450'	495'	540'	45'	90'	320'	195'	360'
50		500'	550'	600'	50'	100'	400'	240'	425'
55		550'	605'	660'	55'	110'	500'	295'	495'
60		600'	660'	720'	60'	120'	600'	350'	570'
65		650'	715'	780'	65'	130'	700'	410'	645'
70		700'	770'	840'	70'	140'	800'	475'	730'
75		750'	825'	900'	75'	150'	900'	540'	820'

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

TYPICAL USAGE

	MOBILE	SHORT DURATION	SHORT TERM STATIONARY	INTERMEDIATE TERM STATIONARY	LONG TERM STATIONARY
		✓	✓	✓	

GENERAL NOTES

- Flags attached to signs where shown, are REQUIRED.
 - All traffic control devices illustrated are REQUIRED, except those denoted with the triangle symbol may be omitted when stated elsewhere in the plans, or for routine maintenance work, when approved by the Engineer.
 - The CW3-4 "BE PREPARED TO STOP" sign may be installed after the CW20-4 "ONE LANE ROAD XXX FT" sign, but proper sign spacing shall be maintained.
 - Flaggers should use two-way radios or other methods of communication to control traffic.
 - Length of work space should be based on the ability of flaggers to communicate.
 - A Shadow Vehicle with a TMA should be used anytime it can be positioned 30 to 100 feet in advance of the area of crew exposure without adversely affecting the performance or quality of the work. If workers are no longer present but road or work conditions require the traffic control to remain in place, Type 3 Barricades or other channelizing devices may be substituted for the Shadow Vehicle and TMA.
 - Additional Shadow Vehicles with TMAs may be positioned off the paved surface, next to those shown in order to protect a wider work space.
- TCP (2-2a)**
- The R1-2 "YIELD" sign traffic control may be used on projects with approaches that have adequate sight distance. For projects in urban areas, work space should be no longer than one half city block. In rural areas, roadways with less than 2000 ADT, work space should be no longer than 400 feet.
 - The R1-2aP "YIELD TO ONCOMING TRAFFIC" sign shall be placed on a support at a 7 foot minimum mounting height.
- TCP (2-2b)**
- Channelizing devices on the center line may be omitted when a pilot car is leading traffic and approved by the Engineer.
 - If the work space is located near a horizontal or vertical curve, the buffer distances should be increased in order to maintain stopping sight distance to the flagger and a queue of stopped vehicles. (See table above).
 - Flaggers should use 24" STOP/SLOW paddles to control traffic. Flags should be limited to emergency situations.



**TRAFFIC CONTROL PLAN
ONE-LANE TWO-WAY
TRAFFIC CONTROL**

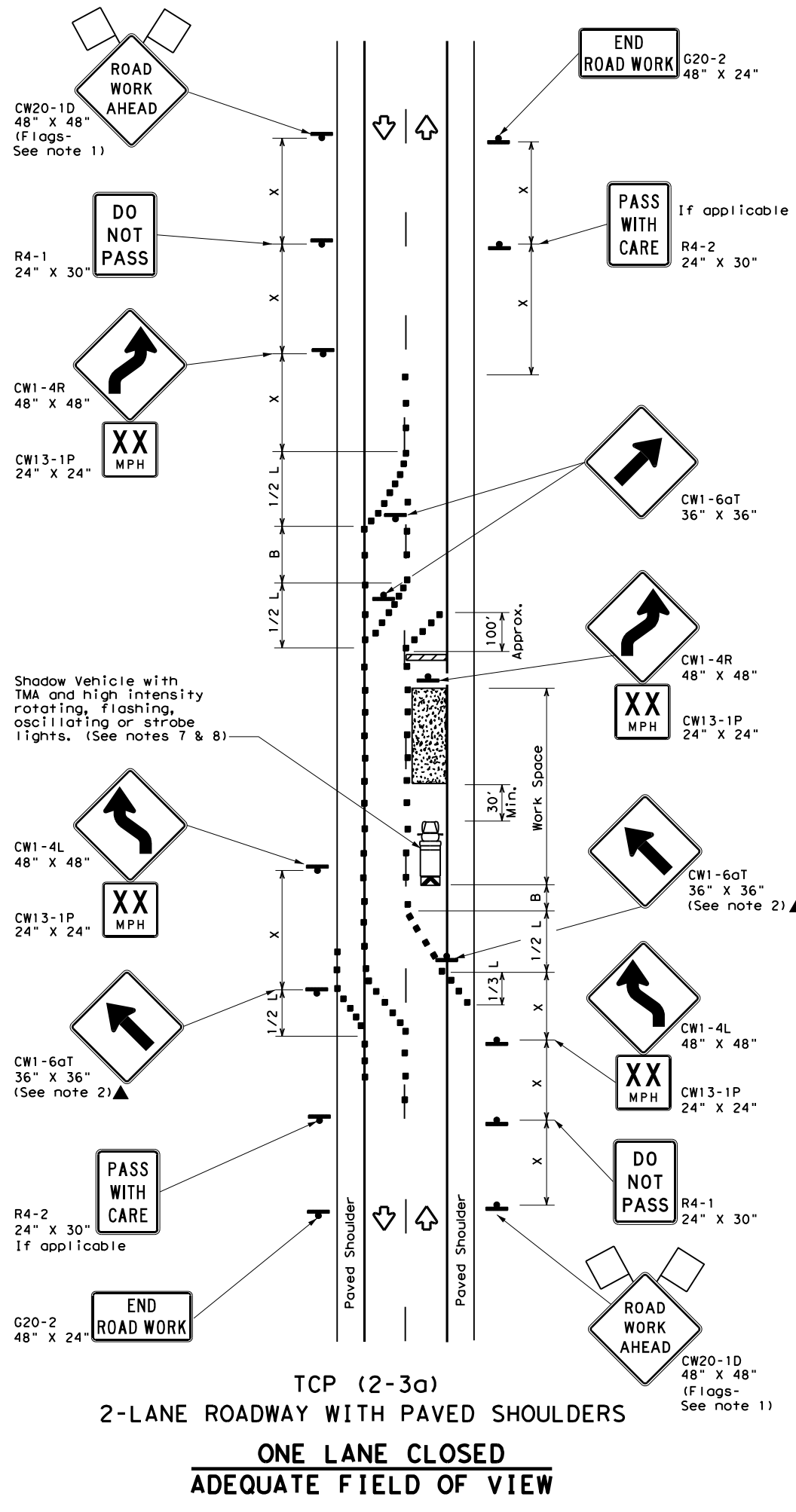
TCP (2-2) - 18

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© TxDOT	CON:	SECT:	JOB:	HIGHWAY:
REVISIONS	6353	00	001	1H-2, ETC.
8-95 3-03	DIST:	COUNTY:	SHEET NO.:	
1-97 2-12	21	HIDALGO, ETC.	221	
4-98 2-18				

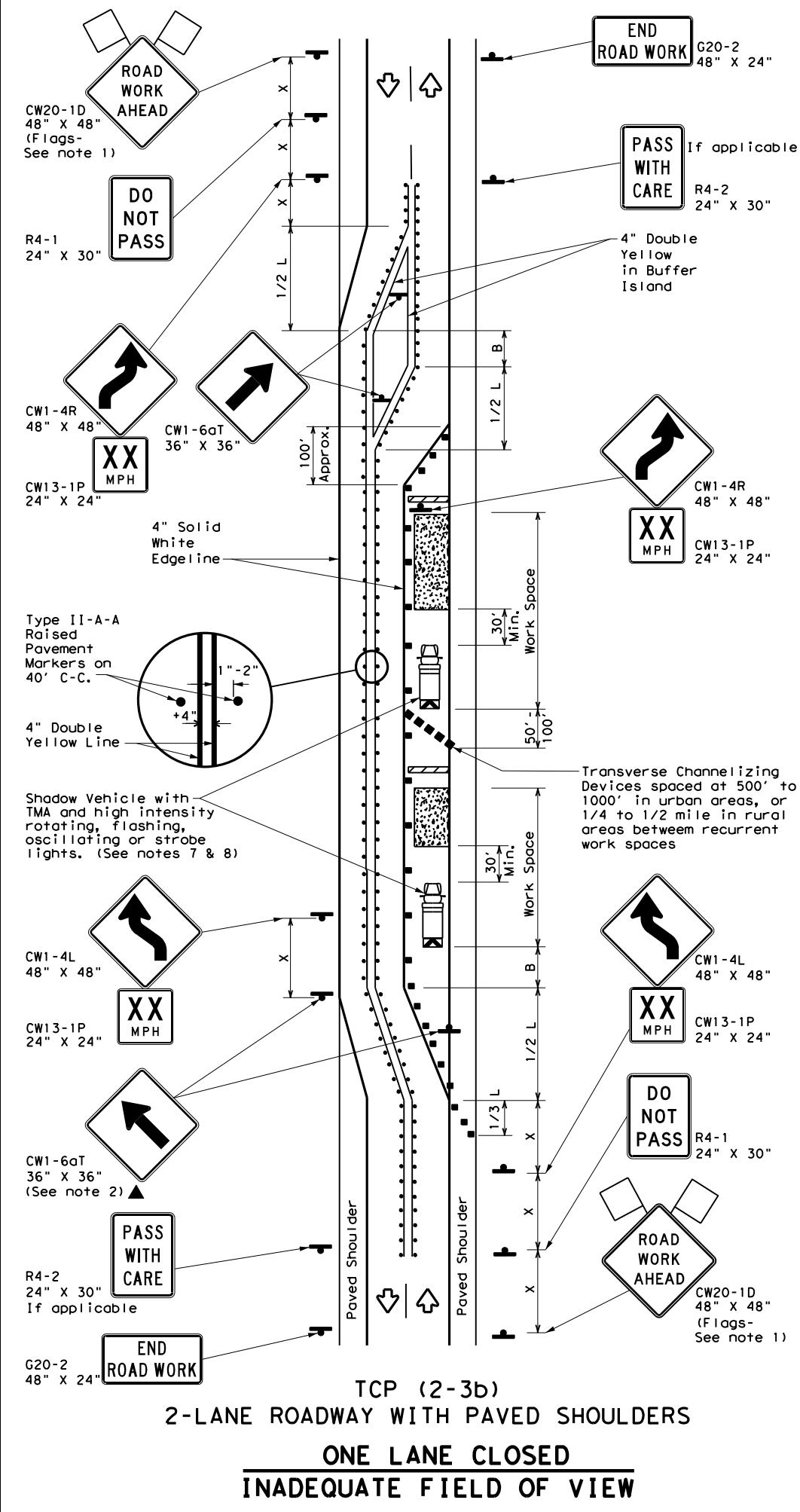
DATE:
FILE:

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DATE: FILE:



TCP (2-3a)
2-LANE ROADWAY WITH PAVED SHOULDERS
ONE LANE CLOSED
ADEQUATE FIELD OF VIEW



TCP (2-3b)
2-LANE ROADWAY WITH PAVED SHOULDERS
ONE LANE CLOSED
INADEQUATE FIELD OF VIEW

LEGEND			
	Type 3 Barricade		Channelizing Devices
	Heavy Work Vehicle		Truck Mounted Attenuator (TMA)
	Trailer Mounted Flashing Arrow Board		Raised Pavement Markers Ty II-AA
	Sign		Traffic Flow
	Flag		Flagger

Posted Speed *	Formula	Minimum Desirable Taper Lengths **			Suggested Maximum Spacing of Channelizing Devices		Minimum Sign Spacing "x" Distance	Suggested Longitudinal Buffer Space "B"
		10' Offset	11' Offset	12' Offset	On a Taper	On a Tangent		
30	L = WS ² / 60	150'	165'	180'	30'	70'	120'	90'
35		205'	225'	245'	35'	70'	160'	120'
40		265'	295'	320'	40'	80'	240'	155'
45	L = WS	450'	495'	540'	45'	90'	320'	195'
50		500'	550'	600'	50'	100'	400'	240'
55		550'	605'	660'	55'	110'	500'	295'
60		600'	660'	720'	60'	120'	600'	350'
65		650'	715'	780'	65'	130'	700'	410'
70		700'	770'	840'	70'	140'	800'	475'
75		750'	825'	900'	75'	150'	900'	540'

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

TYPICAL USAGE				
MOBILE	SHORT DURATION	SHORT TERM STATIONARY	INTERMEDIATE TERM STATIONARY	LONG TERM STATIONARY
			✓	✓
				TCP (2-3b) ONLY

- GENERAL NOTES**
- Flags attached to signs where shown, are REQUIRED.
 - All traffic control devices illustrated are REQUIRED, except those denoted with the triangle symbol may be omitted when stated elsewhere in the plans, or for routine maintenance work, when approved by the Engineer.
 - When work space will be in place less than three days existing pavement markings may remain in place. Channelizing devices shall be used to separate traffic.
 - Flagger control should NOT be used unless roadway conditions or heavy traffic volume require additional emphasis to safely control traffic. Flagger should be positioned at end of traffic queue.
 - The R4-1 "DO NOT PASS," R4-2 "PASS WITH CARE" and construction regulatory speed zone signs may be installed within CW20-1D "ROAD WORK AHEAD" signs. Proper spacing of signs shall be maintained.
 - Conflicting pavement marking shall be removed for long term projects.
 - A Shadow Vehicle with a TMA should be used anytime it can be positioned 30 to 100 feet in advance of the area of crew exposure without adversely affecting the performance or quality of the work. If workers are no longer present but road or work conditions require the traffic control to remain in place, Type 3 Barricades or other channelizing devices may be substituted.
 - Additional Shadow Vehicles with TMAs may be positioned off the paved surface, next to those shown in order to protect a wider work space.
- TCP (2-3a)**
- Conflicting pavement markings shall be removed for long-term projects. For shorter durations where traffic is directed over a yellow centerline, channelizing devices which separate two-way traffic should be spaced on tapers at 20' or 15' if posted speeds are 35 mph or slower, and for tangent sections, at 1/2(S) where S is the speed in mph. This tighter device spacing is intended for the area of the conflicting markings, not the entire work zone.

Traffic Operations Division Standard

TEXAS DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL PLAN
TRAFFIC SHIFTS ON
TWO-LANE ROADS

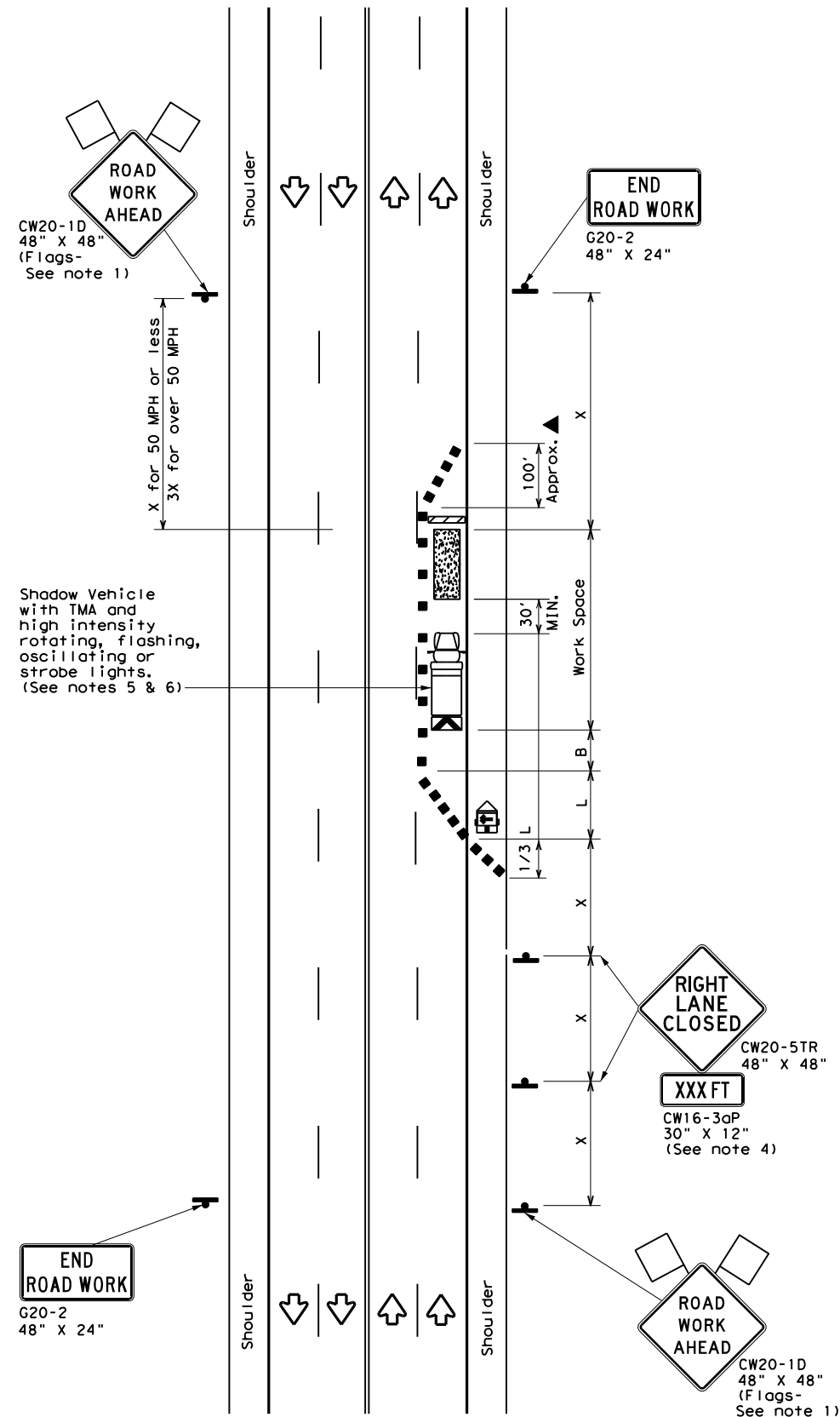
TCP (2-3) - 18

FILE: tcp(2-3)-18.dgn	DN:	CK:	DW:	CK:
© TxDOT December 1985	CONT	SECT	JOB	HIGHWAY
REVISIONS	6353	00	001	IH-2, ETC.
8-95 3-03	DIST	COUNTY	SHEET NO.	
1-97 2-12	21	HIDALGO, ETC.	222	
4-98 2-18				

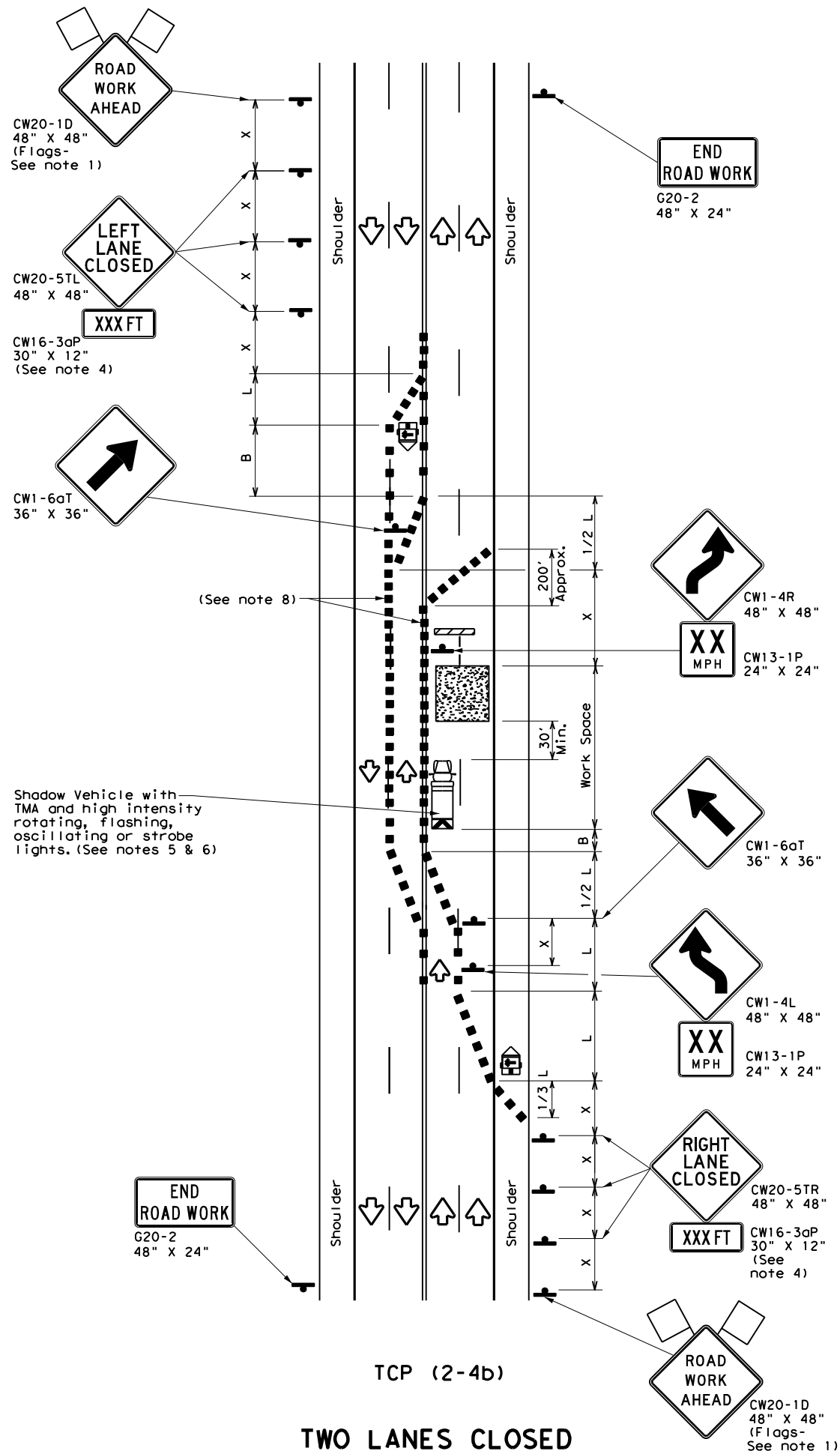
163

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DATE: FILE:



TCP (2-4a)
ONE LANE CLOSED



TCP (2-4b)
TWO LANES CLOSED

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

Posted Speed *	Formula	Minimum Desirable Taper Lengths **			Suggested Maximum Spacing of Channelizing Devices		Minimum Sign Spacing "x" Distance	Suggested Longitudinal Buffer Space "B"
		10' Offset	11' Offset	12' Offset	On a Taper	On a Tangent		
30	L = WS ² / 60	150'	165'	180'	30'	60'	120'	90'
35		205'	225'	245'	35'	70'	160'	120'
40		265'	295'	320'	40'	80'	240'	155'
45	L = WS	450'	495'	540'	45'	90'	320'	195'
50		500'	550'	600'	50'	100'	400'	240'
55		550'	605'	660'	55'	110'	500'	295'
60		600'	660'	720'	60'	120'	600'	350'
65		650'	715'	780'	65'	130'	700'	410'
70		700'	770'	840'	70'	140'	800'	475'
75		750'	825'	900'	75'	150'	900'	540'

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

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

- GENERAL NOTES**
- Flags attached to signs where shown, are REQUIRED.
 - All traffic control devices illustrated are REQUIRED, except those denoted with the triangle symbol may be omitted when stated elsewhere in the plans, or for routine maintenance work, when approved by the Engineer.
 - The downstream taper is optional. When used, it should be 100 feet minimum length per lane.
 - For short term applications, when post mounted signs are not used, the distance legend may be shown on the sign face rather than on a CW16-3aP supplemental plaque.
 - A Shadow Vehicle with a TMA should be used anytime it can be positioned 30 to 100 feet in advance of the area of crew exposure without adversely affecting the performance or quality of the work. If workers are no longer present but road or work conditions require the traffic control to remain in place, Type 3 Barricades or other channelizing devices may be substituted for the Shadow Vehicle and TMA.
 - Additional Shadow Vehicles with TMAs may be positioned in each closed lane, on the shoulder or off the paved surface, next to those shown in order to protect a wider work space.
- TCP (2-4a)**
- If this TCP is used for a left lane closure, CW20-5TL "LEFT LANE CLOSED" signs shall be used and channelizing devices shall be placed on the centerline to protect the work space from opposing traffic with the arrow board placed in the closed lane near the end of the merging taper.
- TCP (2-4b)**
- For shorter durations where traffic is directed over a yellow centerline, channelizing devices which separate two-way traffic should be spaced on tapers at 20' or 15' if posted speeds are 35 mph or slower, and for tangent sections, at 1/2(S) where S is the speed in mph. This tighter devices spacing is intended for the area of conflicting markings, not the entire work zone.

Traffic Operations Division Standard

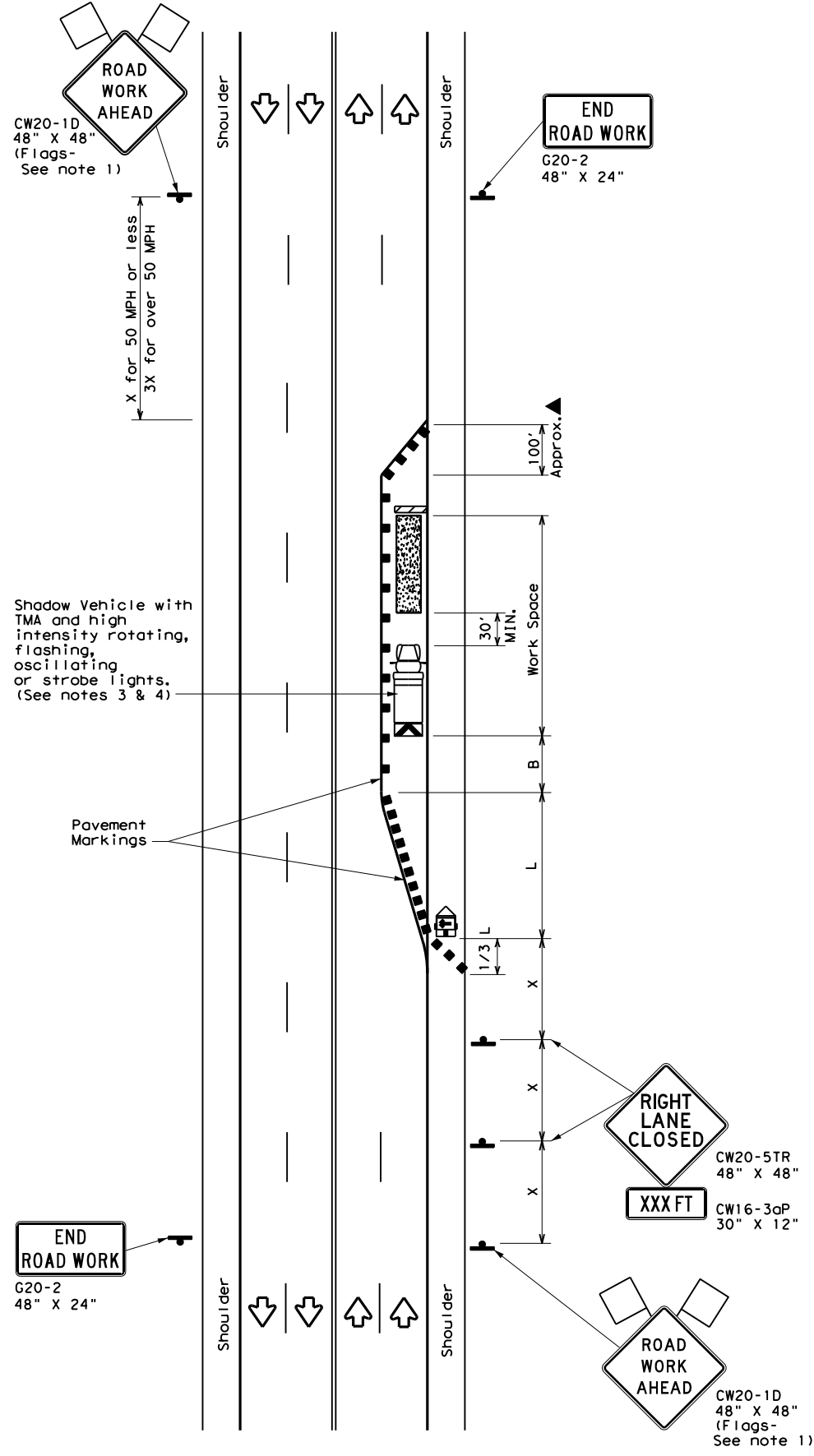
**TRAFFIC CONTROL PLAN
LANE CLOSURES ON MULTILANE
CONVENTIONAL ROADS**

TCP (2-4) - 18

FILE: tcp2-4-18.dgn	DN:	CK:	DW:	CK:
© TxDOT December 1985	CONT	SECT	JOB	HIGHWAY
REVISIONS	6353	00	001	1H-2, ETC.
8-95 3-03	DIST	COUNTY	SHEET NO.	
1-97 2-12	21	HIDALGO, ETC.	223	
4-98 2-18				

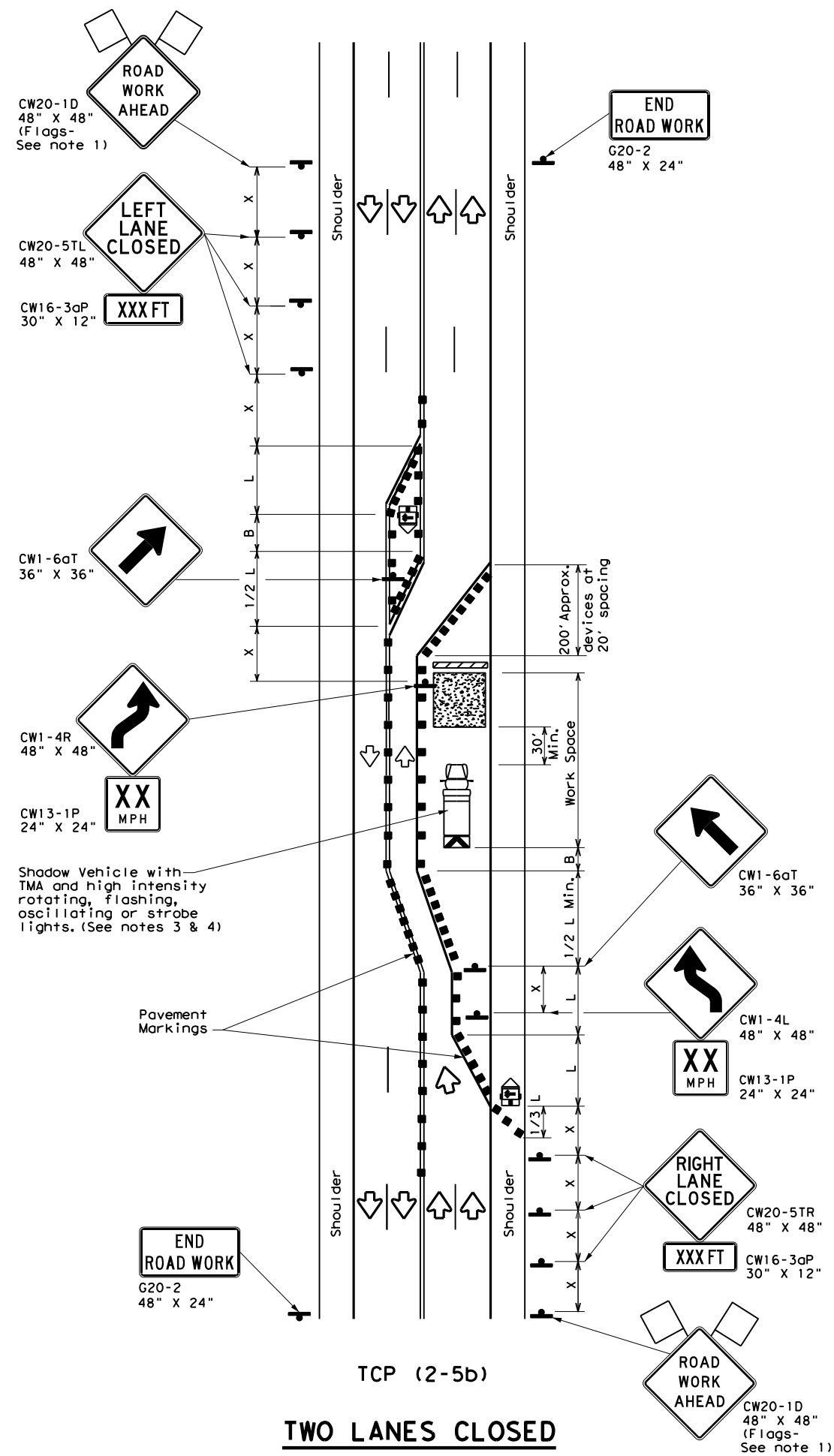
164

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TCP (2-5a)

ONE LANE CLOSED



TCP (2-5b)

TWO LANES CLOSED

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

Posted Speed *	Formula	Minimum Desirable Taper Lengths X X			Suggested Maximum Spacing of Channelizing Devices		Minimum Sign Spacing "X" Distance	Suggested Longitudinal Buffer Space "B"
		10' Offset	11' Offset	12' Offset	On a Taper	On a Tangent		
30	L = WS ² / 60	150'	165'	180'	30'	60'	120'	90'
35		205'	225'	245'	35'	70'	160'	120'
40		265'	295'	320'	40'	80'	240'	155'
45	L = WS	450'	495'	540'	45'	90'	320'	195'
50		500'	550'	600'	50'	100'	400'	240'
55		550'	605'	660'	55'	110'	500'	295'
60		600'	660'	720'	60'	120'	600'	350'
65		650'	715'	780'	65'	130'	700'	410'
70		700'	770'	840'	70'	140'	800'	475'
75		750'	825'	900'	75'	150'	900'	540'

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

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

- GENERAL NOTES**
- Flags attached to signs where shown, are REQUIRED.
 - All traffic control devices illustrated are REQUIRED, except those denoted with the triangle symbol may be omitted when stated elsewhere in the plans, or for routine maintenance work, when approved by the Engineer.
 - A Shadow Vehicle with a TMA should be used anytime it can be positioned 30 to 100 feet in advance of the area of crew exposure without adversely affecting the performance or quality of the work. If workers are no longer present but road or work conditions require the traffic control to remain in place, Type 3 Barricades or other channelizing devices may be substituted for the Shadow Vehicle and TMA.
 - Additional Shadow Vehicles with TMAs may be positioned in each closed lane, on the shoulder or off the paved surface, next to those shown in order to protect a wider work space.
 - The downstream taper is optional. When used, it should be 100 feet approximately per lane, with channelizing devices spaced at 20 feet.

TCP (2-5a)

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

TCP (2-5b)

- Conflicting pavement markings shall be removed for long-term projects.

Traffic Operations Division Standard

TRAFFIC CONTROL PLAN
 LONG TERM LANE CLOSURES
 MULTILANE CONVENTIONAL RDS.

TCP (2-5) - 18

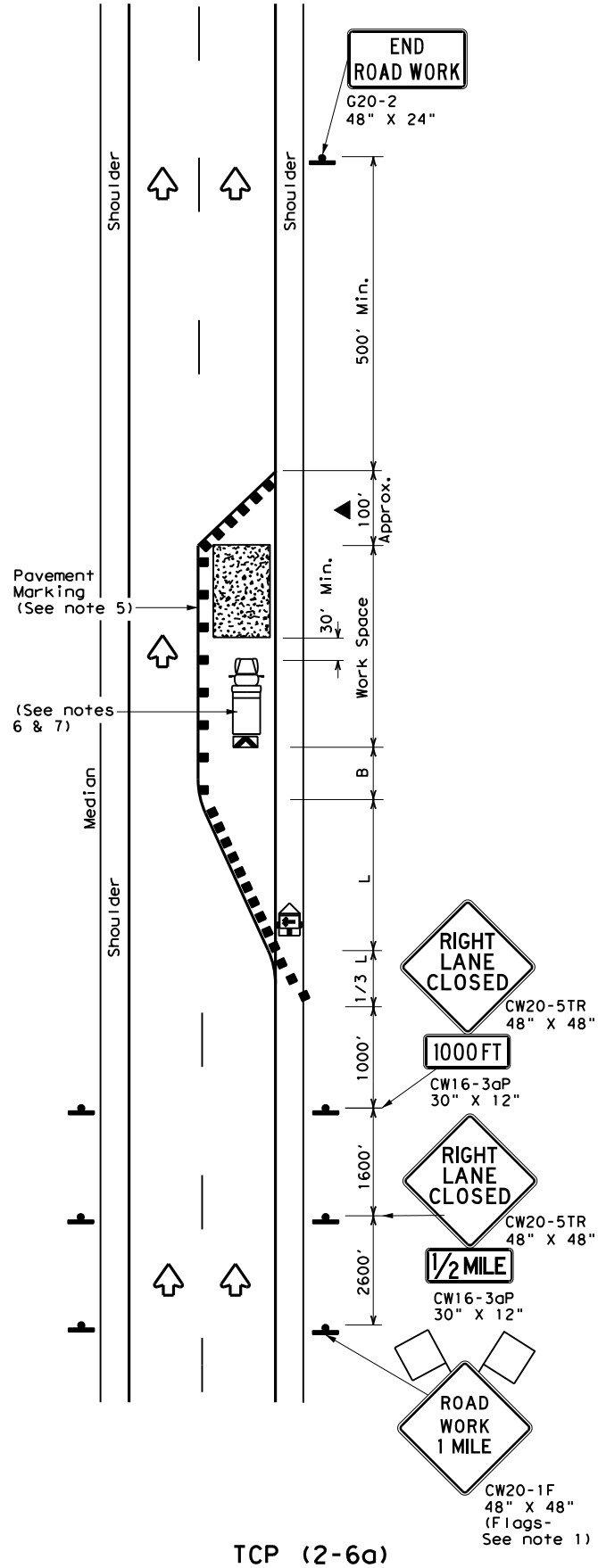
FILE: tcp2-5-18.dgn	DN:	CK:	DW:	CK:
© TxDOT December 1985	CONT	SECT	JOB	HIGHWAY
REVISIONS	6353 00	001	1H-2, ETC.	
8-95 2-12	DIST	COUNTY	SHEET NO.	
1-97 3-03	21	HIDALGO, ETC.	224	
4-98 2-18				

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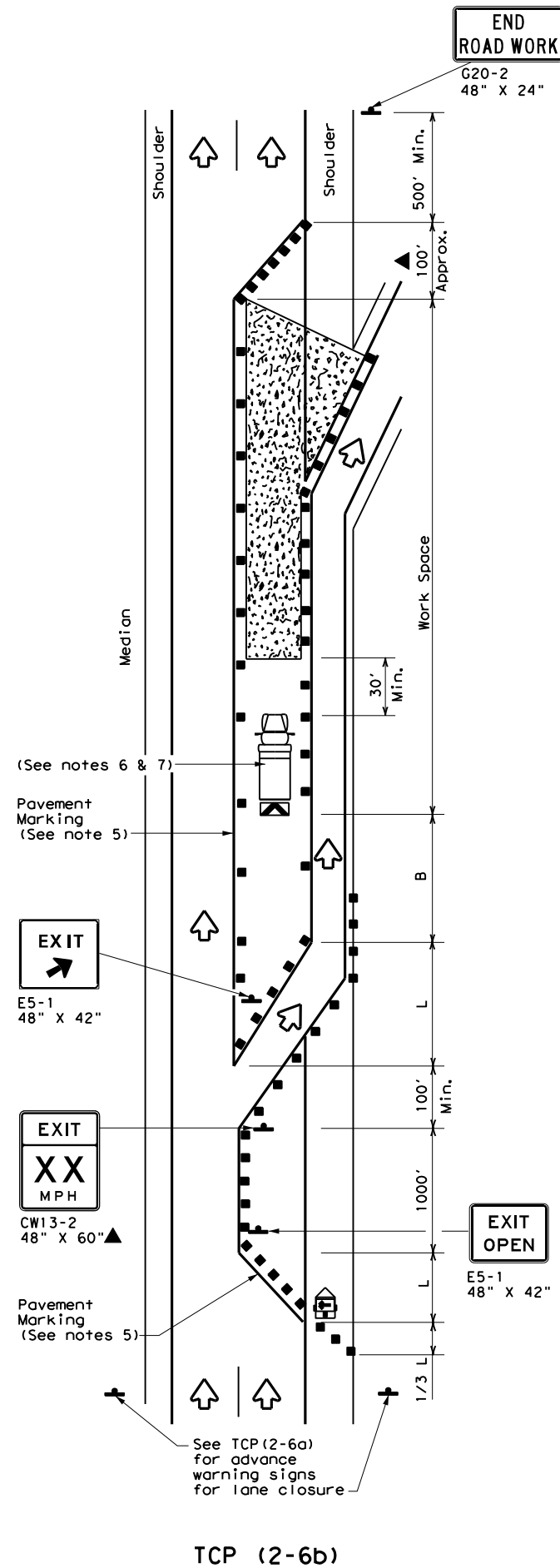
DATE:
FILE:

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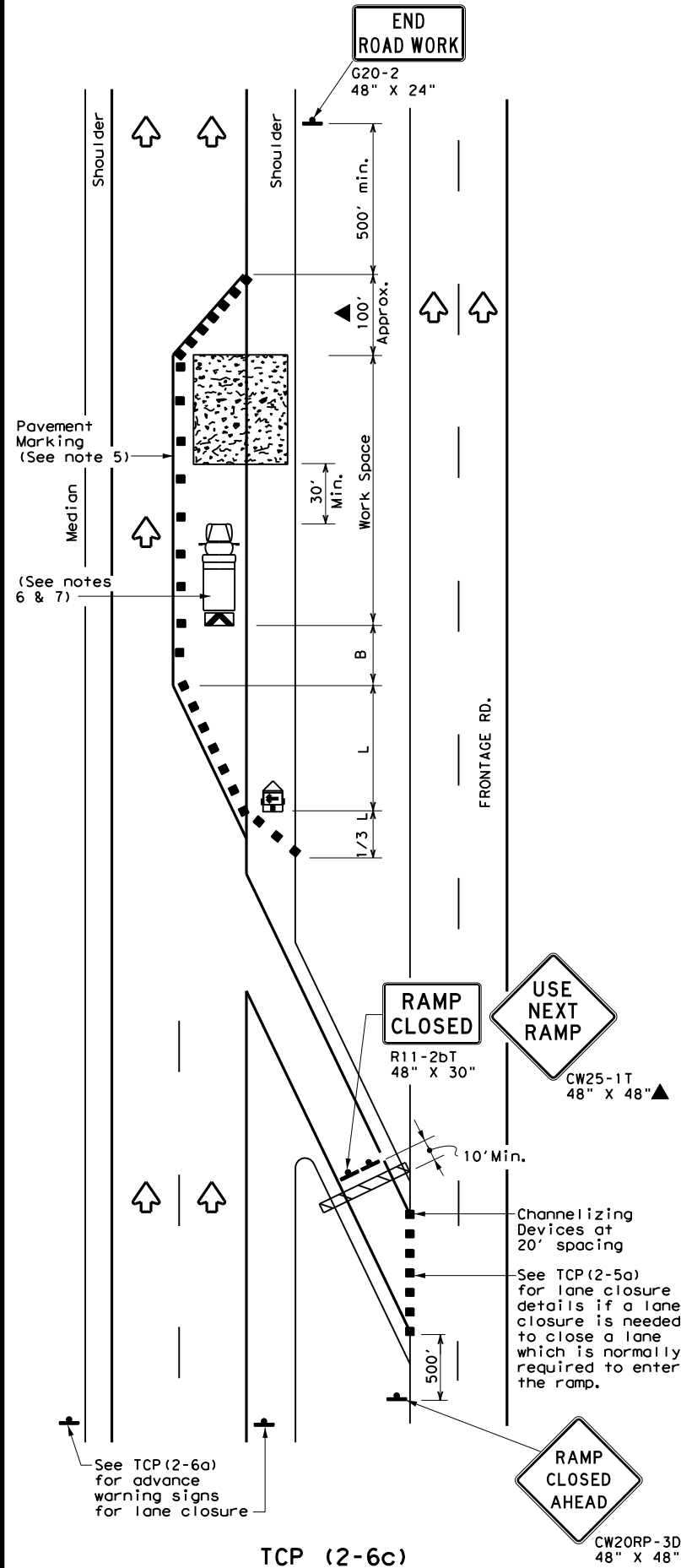
DATE: FILE:



TCP (2-6a)
ONE LANE CLOSURE



TCP (2-6b)
LANE CLOSURE NEAR EXIT RAMP



TCP (2-6c)
LANE CLOSURE NEAR ENTRANCE RAMP

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

Posted Speed *	Formula	Minimum Desirable Taper Lengths **			Suggested Maximum Spacing of Channelizing Devices		Minimum Sign Spacing "X" Distance	Suggested Longitudinal Buffer Space "B"
		10' Offset	11' Offset	12' Offset	On a Taper	On a Tangent		
30	$L = \frac{WS^2}{60}$	150'	165'	180'	30'	60'	120'	90'
35		205'	225'	245'	35'	70'	160'	120'
40		265'	295'	320'	40'	80'	240'	155'
45	L = WS	450'	495'	540'	45'	90'	320'	195'
50		500'	550'	600'	50'	100'	400'	240'
55		550'	605'	660'	55'	110'	500'	295'
60		600'	660'	720'	60'	120'	600'	350'
65		650'	715'	780'	65'	130'	700'	410'
70		700'	770'	840'	70'	140'	800'	475'
75		750'	825'	900'	75'	150'	900'	540'

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

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

- GENERAL NOTES**
- Flags attached to signs where shown, are REQUIRED.
 - All traffic control devices illustrated are REQUIRED, except those denoted with the triangle symbol may be omitted when stated elsewhere in the plans, or for routine maintenance work, when approved by the Engineer.
 - Channelizing devices used to close lanes may be supplemented with the Chevron Alignment Sign placed on every other channelizing device. Chevrons may be attached to plastic drums as per BC Standards.
 - Channelizing devices used along the work space or along tangent sections may be supplemented with vertical panels (VP) placed on every other channelizing device. If night time conditions make it difficult to see at least two VPs, the VPs may be placed on each channelizing device.
 - The placement of pavement markings may be omitted on intermediate-term stationary work zones with the approval of the Engineer.
 - Shadow Vehicle with TMA and high intensity rotating, flashing, oscillating or strobe lights. A Shadow Vehicle with a TMA should be used anytime it can be positioned 30 to 100 feet in advance of the area of crew exposure without adversely affecting the performance or quality of the work. If workers are no longer present but road or work conditions require the traffic control to remain in place, Type 3 Barricades or other channelizing devices may be substituted for the Shadow Vehicle and TMA.
 - Additional Shadow Vehicles with TMAs may be positioned in each closed lane, on the shoulder or off the paved surface, next to those shown in order to protect a wider work space.

Texas Department of Transportation
 Traffic Operations Division Standard

TRAFFIC CONTROL PLAN LANE CLOSURES ON DIVIDED HIGHWAYS

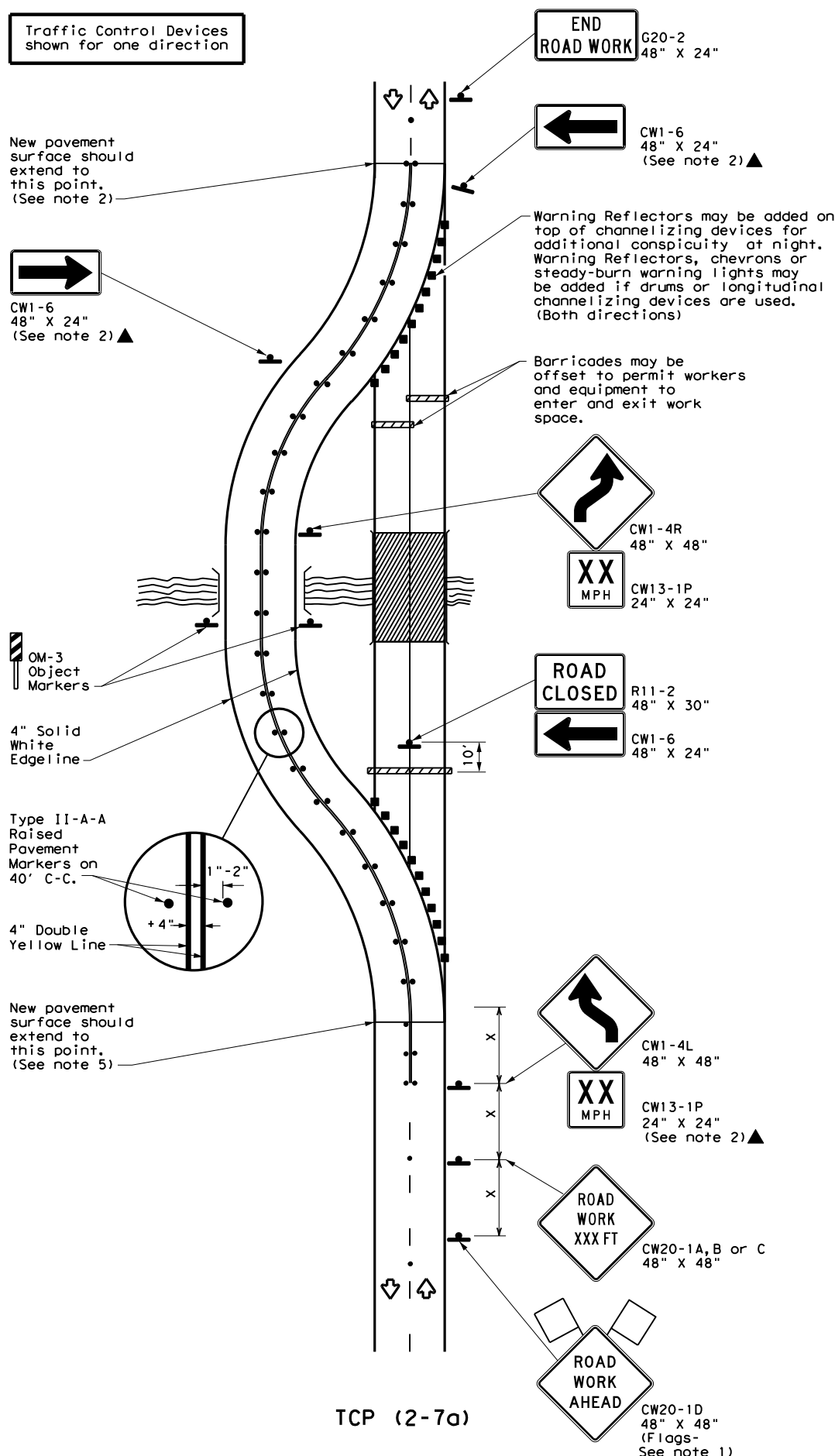
TCP (2-6) - 18

FILE: tcp2-6-18.dgn	DW: _____	CK: _____	DW: _____	CK: _____
© TxDOT December 1985	CONT: _____	SECT: _____	JOB: _____	HIGHWAY: _____
REVISIONS	6353	00	001	1H-2, ETC.
2-94 4-98	DIST: _____	COUNTY: _____	SHEET NO.:	
8-95 2-12	21	HIDALGO, ETC.	225	
1-97 2-18				

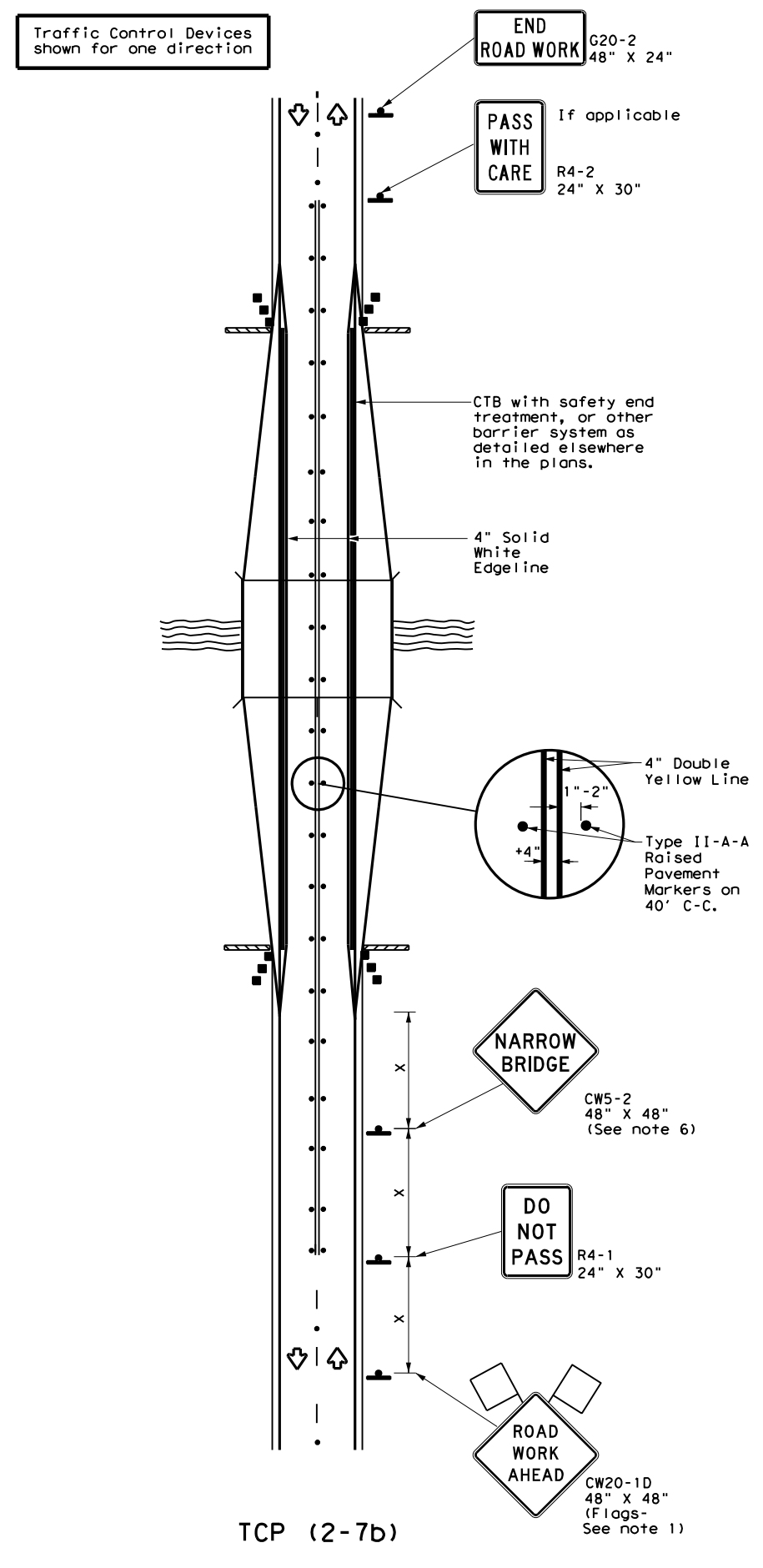
166

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DATE: FILE:



ROADWAY DIVERSION



BRIDGE WIDENING

LEGEND

	Type 3 Barricade		Channelizing Devices
	Heavy Work Vehicle		Truck Mounted Attenuator (TMA)
	Trailer Mounted Flashing Arrow Board		Raised Pavement Markers Ty II-AA
	Sign		Traffic Flow
	Flag		Flagger

Posted Speed *	Formula	Minimum Desirable Taper Lengths **			Suggested Maximum Spacing of Channelizing Devices		Minimum Sign Spacing "X" Distance	Suggested Longitudinal Buffer Space "B"
		10' Offset	11' Offset	12' Offset	On a Taper	On a Tangent		
30	$L = \frac{WS^2}{60}$	150'	165'	180'	30'	60'	120'	90'
35		205'	225'	245'	35'	70'	160'	120'
40		265'	295'	320'	40'	80'	240'	155'
45	L = WS	450'	495'	540'	45'	90'	320'	195'
50		500'	550'	600'	50'	100'	400'	240'
55		550'	605'	660'	55'	110'	500'	295'
60		600'	660'	720'	60'	120'	600'	350'
65		650'	715'	780'	65'	130'	700'	410'
70		700'	770'	840'	70'	140'	800'	475'
75		750'	825'	900'	75'	150'	900'	540'

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

TYPICAL USAGE

MOBILE	SHORT DURATION	SHORT TERM STATIONARY	INTERMEDIATE TERM STATIONARY	LONG TERM STATIONARY
			✓	✓

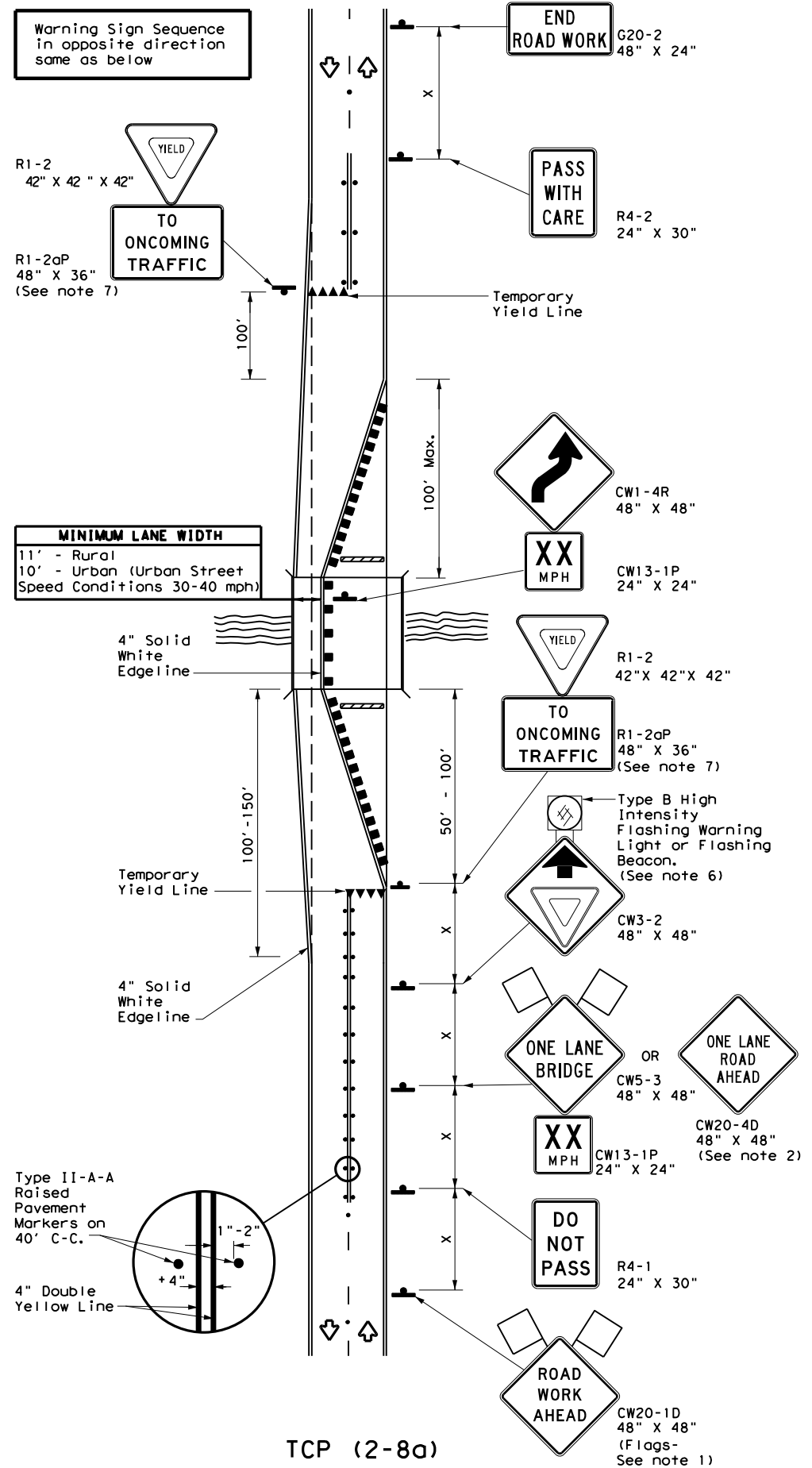
- GENERAL NOTES**
- Flags attached to signs where shown are REQUIRED.
 - All traffic control devices illustrated are REQUIRED, except those denoted with the triangle symbol may be omitted when stated elsewhere in the plans, or for routine maintenance work, when approved by the Engineer.
- TCP (2-7a)**
- Raised pavement markers shall be placed 40 feet c-c on centerline throughout project.
 - Roadway diversion design requirements should be based on posted speed limit or prevailing speed.
 - New pavement surface should be extended across existing roadway edge to a point where existing pavement markings left in place during project do not conflict with construction area pavement marking.
- TCP (2-7b)**
- The CW5-2 "Narrow Bridge" sign may be omitted if lane and shoulder widths are maintained.

TRAFFIC CONTROL PLAN DIVERSIONS AND NARROW BRIDGES

TCP (2-7) - 18

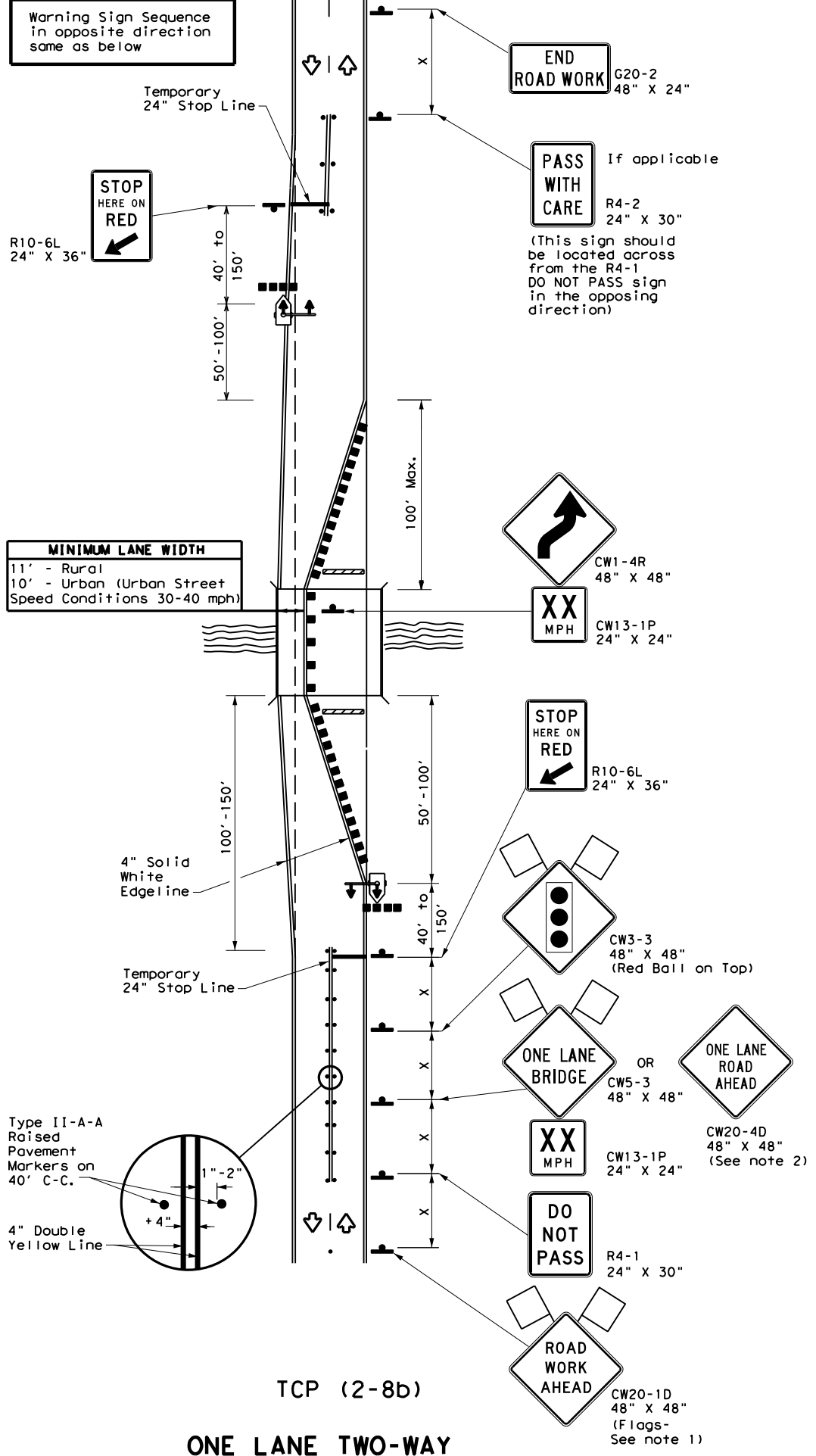
FILE: tcp2-7-18.dgn	DN:	CK:	DW:	CK:
© TxDOT December 1985	CONT	SECT	JOB	HIGHWAY
REVISIONS	6353	00	001	1H-2, ETC.
8-95 3-03	DIST	COUNTY	SHEET NO.	
1-97 2-12	21	HIDALGO, ETC.	226	
4-98 2-18				

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TCP (2-8a)

ONE LANE TWO-WAY TRAFFIC CONTROL WITH YIELD SIGNS
 (Less Than 2000 ADT-See Note 5)



TCP (2-8b)

ONE LANE TWO-WAY TRAFFIC CONTROL WITH TRAFFIC SIGNAL

LEGEND

	Type 3 Barricade		Channelizing Devices
	Sign		Traffic Flow
	Flag		Flagger
	Raised Pavement Markers Ty II-AA		Temporary or Portable Traffic Signal

Posted Speed *	Formula	Minimum Desirable Taper Lengths **			Suggested Maximum Spacing of Channelizing Devices		Minimum Sign Spacing "X" Distance	Suggested Longitudinal Buffer Space "B"	Stopping Sight Distance
		10' Offset	11' Offset	12' Offset	On a Taper	On a Tangent			
30	L = WS ² / 60	150'	165'	180'	30'	60'	120'	90'	200'
35		205'	225'	245'	35'	70'	160'	120'	250'
40		265'	295'	320'	40'	80'	240'	155'	305'
45	L = WS	450'	495'	540'	45'	90'	320'	195'	360'
50		500'	550'	600'	50'	100'	400'	240'	425'
55		550'	605'	660'	55'	110'	500'	295'	495'
60	L = WS	600'	660'	720'	60'	120'	600'	350'	570'
65		650'	715'	780'	65'	130'	700'	410'	645'
70		700'	770'	840'	70'	140'	800'	475'	730'
75	L = WS	750'	825'	900'	75'	150'	900'	540'	820'

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

TYPICAL USAGE

	MOBILE	SHORT DURATION	SHORT TERM STATIONARY	INTERMEDIATE TERM STATIONARY	LONG TERM STATIONARY
				✓	✓

GENERAL NOTES

- Flags attached to signs where shown are REQUIRED.
 - When this TCP is used at a location which does not involve a bridge, a 48" x 48" CW20-4D "ONE LANE ROAD AHEAD" signs should be used in lieu of the CW5-3 "ONE LANE BRIDGE" signs. The CW13-1P Advisory Speed Plaque is required with either warning sign.
 - Raised pavement markers shall be placed 40 feet c-c on centerline between DO NOT PASS signs and stop or yield lines.
 - For intermediate term situations, when it is not feasible to remove and restore pavement markings, the channelization must be made dominant by using a very close spacing. This is especially important in locations of conflicting information, such as where traffic is directed over a double yellow centerline. In such locations a maximum channelizing device spacing of 20 feet is recommended. The 20 foot channelizing device spacing recommendation is intended for the area of conflicting information and not the entire work zone.
- TCP (2-8a)**
- Traffic control by CW3-2 "YIELD AHEAD" symbol signs for one lane two-way traffic control operations should be limited to work spaces less than 400 feet long and roadways with less than 2000 ADT. Otherwise, portable traffic signals should be used.
 - If power is available, a flashing beacon should be attached to the CW3-2 "YIELD AHEAD" symbol sign for emphasis.
 - The R1-2 "YIELD" and R1-2aP "TO ONCOMING TRAFFIC" signs and other regulatory signs shall be installed at 7 foot minimum mounting height.
- TCP (2-8b)**
- A list of approved Portable Traffic Signals can be found in the "Compliant Work Zone Traffic Control Devices" list.
 - Portable traffic signals should be located to provide adequate stopping sight distance for approaching motorist (See table above).

Texas Department of Transportation Traffic Operations Division Standard

TRAFFIC CONTROL PLAN
LONG TERM ONE-LANE TWO-WAY CONTROL
TCP (2-8) - 18

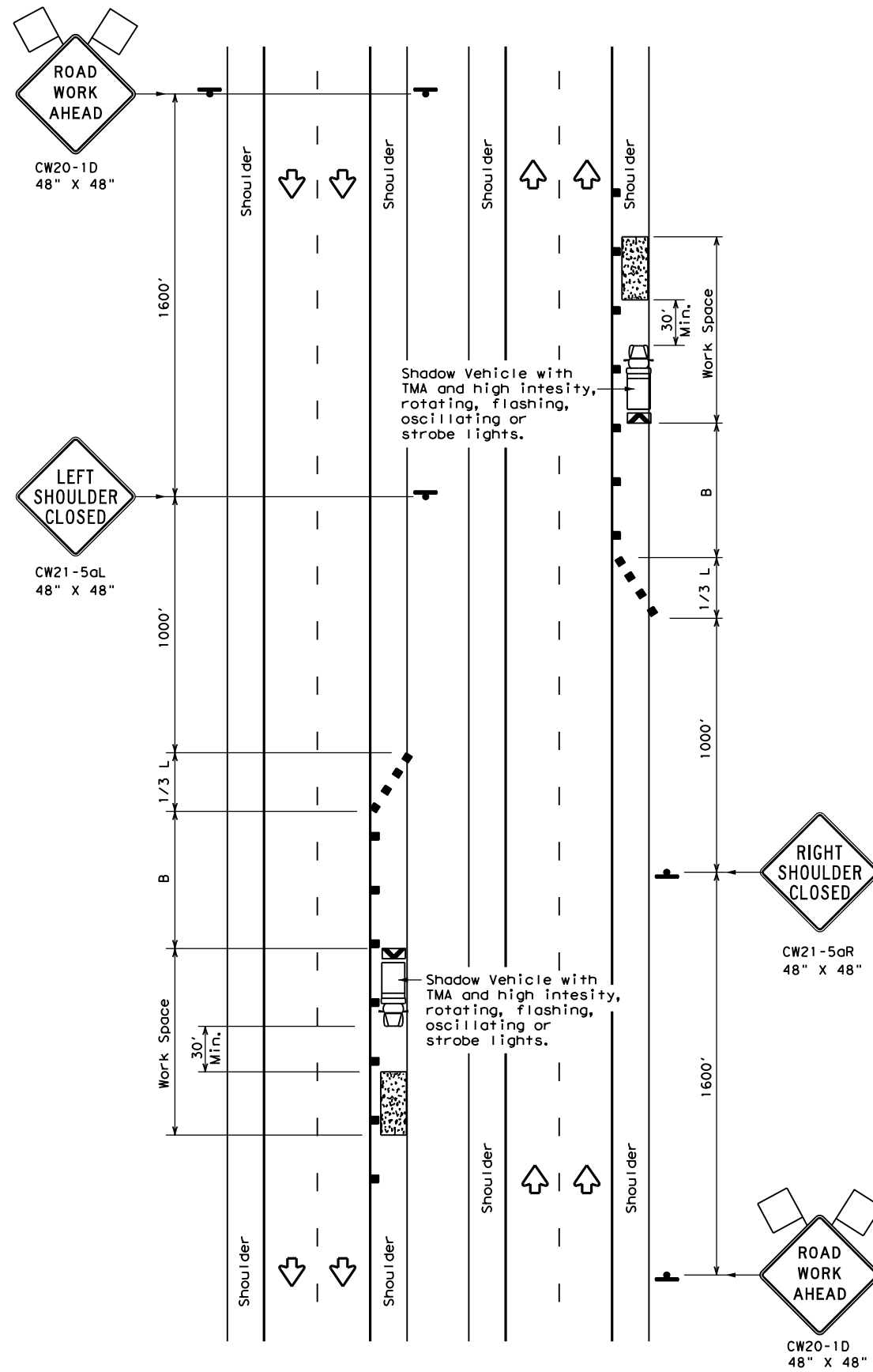
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© TxDOT December 1995	CONT	SECT	JOB	HIGHWAY
REVISIONS	6353 00	001	001	IH-2, ETC.
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1-97 2-12	21	HIDALGO, ETC.	227	
4-98 2-18				

168

DATE: FILE:

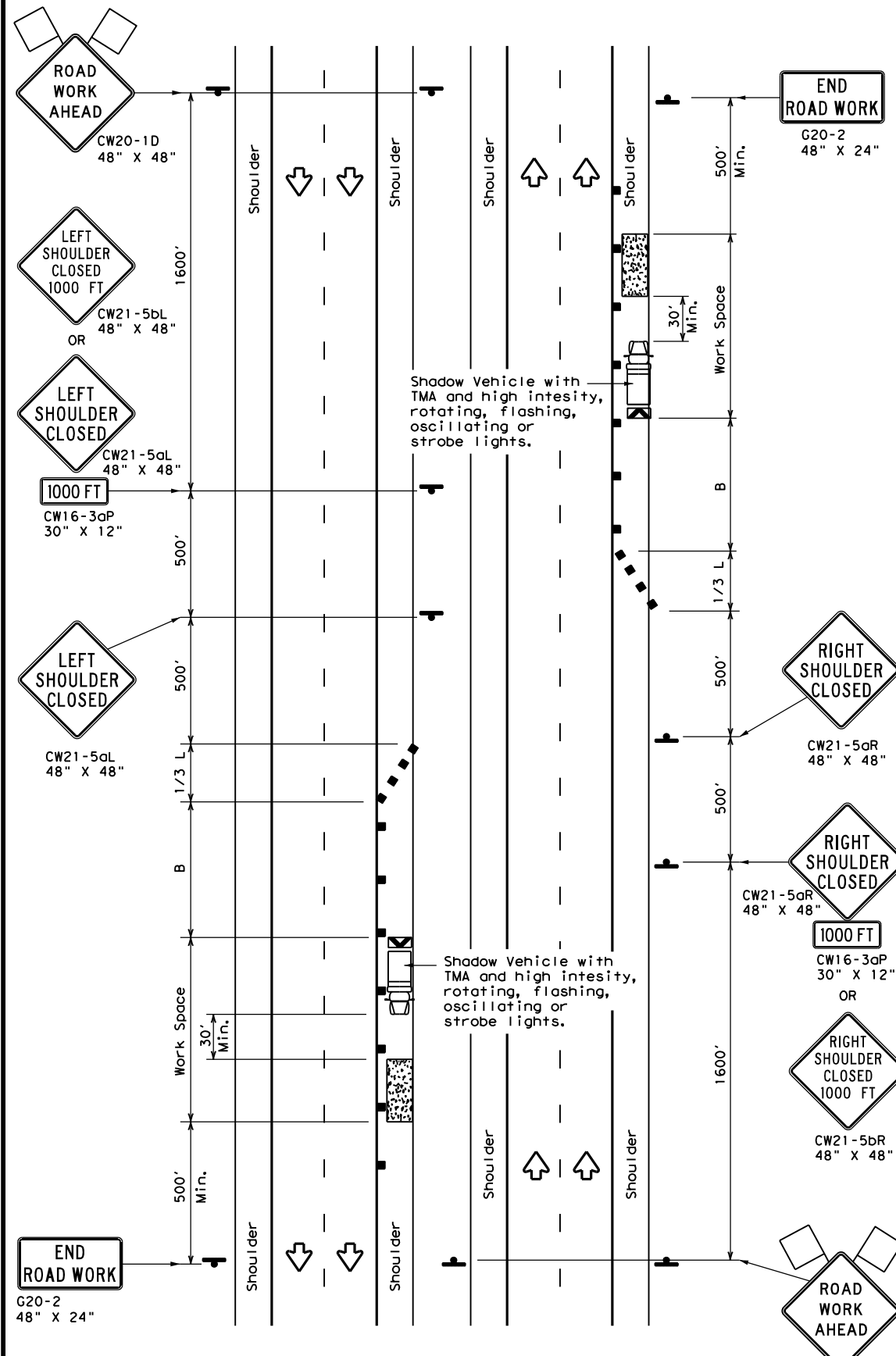
DISCLAIMER: The use of this standard is governed by the "Texas Engineering Practice Act". No warranty of any kind is made by TxDOT for any purpose whatsoever. TxDOT assumes no responsibility for the conversion of this standard to other formats or for incorrect results or damages resulting from its use.

DATE: FILE:



TCP (5-1a)

WORK AREA ON SHOULDER



TCP (5-1b)

WORK AREA ON SHOULDER

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

Posted Speed *	Formula	Minimum Desirable Taper Lengths **			Suggested Maximum Spacing of Channelizing Devices		Suggested Longitudinal Buffer Space "B"
		10' Offset	11' Offset	12' Offset	On a Taper	On a Tangent	
30	$L = \frac{WS^2}{60}$	150'	165'	180'	30'	60'	90'
35		205'	225'	245'	35'	70'	120'
40		265'	295'	320'	40'	80'	155'
45	L = WS	450'	495'	540'	45'	90'	195'
50		500'	550'	600'	50'	100'	240'
55	L = WS	550'	605'	660'	55'	110'	295'
60		600'	660'	720'	60'	120'	350'
65	L = WS	650'	715'	780'	65'	130'	410'
70		700'	770'	840'	70'	140'	475'
75	L = WS	750'	825'	900'	75'	150'	540'
80		800'	880'	960'	80'	160'	615'

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

TYPICAL USAGE				
MOBILE	SHORT DURATION	SHORT TERM STATIONARY	INTERMEDIATE TERM STATIONARY	LONG TERM STATIONARY
	TCP (5-1a)	TCP (5-1b)	TCP (5-1b)	

GENERAL NOTES

1. A Shadow Vehicle with a TMA should be used anytime it can be positioned 30' to 100' in advance of the area of crew exposure without adversely affecting the performance or quality of the work. Type 3 barricades or drums may be substituted when workers on foot are no longer present when approved by the Engineer.
2. 28" tall or taller one-piece 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" tall two-piece cones.



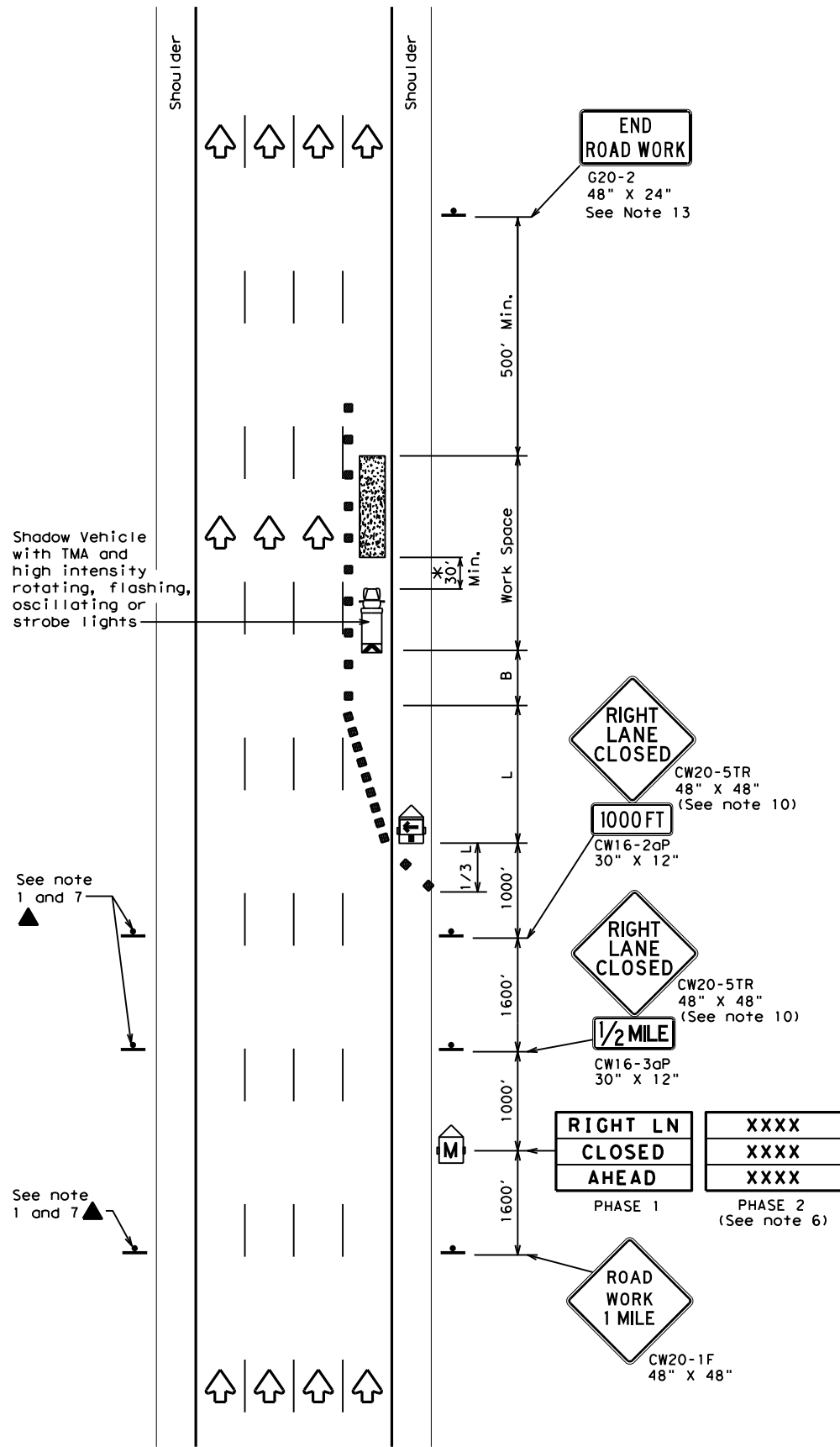
**TRAFFIC CONTROL PLAN
 SHOULDER WORK FOR
 FREEWAYS / EXPRESSWAYS**

TCP (5-1) - 18

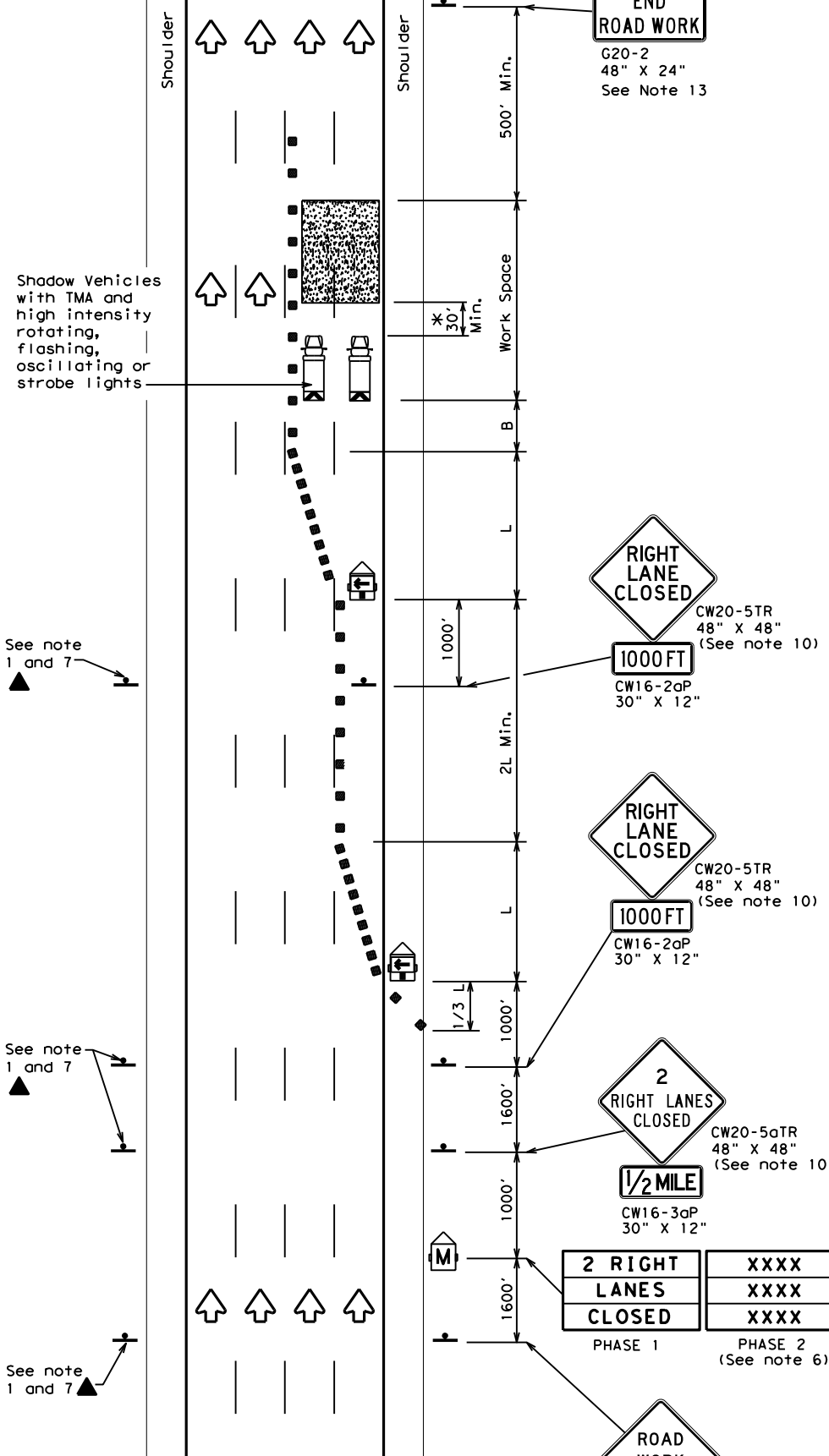
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© TxDOT February 2012	CONT	SECT	JOB	HIGHWAY
2-18	REVISIONS	6353 00	001	IH-2, ETC.
	DIST	COUNTY	SHEET NO.	
	21	HIDALGO, ETC.	228	

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TCP (6-1a)
**TYPICAL FREEWAY
ONE LANE CLOSURE**



TCP (6-1b)
**TYPICAL FREEWAY
TWO LANE CLOSURE**

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

Posted Speed	Formula	Minimum Desirable Taper Lengths "L"			Suggested Maximum Spacing of Channelizing Devices		Suggested Longitudinal Buffer Space "B"
		10' Offset	11' Offset	12' Offset	On a Taper	On a Tangent	
45	L = WS	450'	495'	540'	45'	90'	195'
50		500'	550'	600'	50'	100'	240'
55		550'	605'	660'	55'	110'	295'
60		600'	660'	720'	60'	120'	350'
65		650'	715'	780'	65'	130'	410'
70		700'	770'	840'	70'	140'	475'
75		750'	825'	900'	75'	150'	540'
80	800'	880'	960'	80'	160'	615'	

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

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

GENERAL NOTES

- All traffic control devices illustrated are REQUIRED. Devices denoted with the triangle symbol may be omitted when stated elsewhere in the plans.
- Drums or 42" cones are the typical channelizing devices. For Intermediate Term Stationary work, drums shall be used on tapers with drums or 42" cones used on tangent sections. Other channelizing devices may be used as directed by the Engineer.
- All construction signs and barricades placed during any phase of work shall remain in place until removal is approved by the Engineer.
- The Engineer may direct the Contractor to furnish additional signs and barricades as required to maintain traffic flow, detours and motorist safety during construction.
- Static message boards or changeable message signs stating the date and duration of ramp or freeway lane closures shall be placed a minimum of seven (7) calendar days in advance of the actual closure.
- Phase 2 of the PCMS message should include appropriate information formatted as shown on BC(6), such as "MERGE LEFT," recommended advisory speed, delay information, or other specific warnings.
- Duplicate construction warning signs should be erected on the medians side of freeways where median width will permit and traffic volume justifies the signing.
- The number of closed lanes may be increased provided the spacing of traffic control devices, taper lengths and tangent lengths meet the requirements of the TMUTCD.
- Warning signs for intermediate term stationary work should be mounted at 7' to the bottom of the sign.
- Warning signs shown shall be appropriately altered for left lane closures. When signs are mounted at 1' height for short term stationary or short duration work, sign versions shown in the SHSD for Texas with distances on the sign face rather than mounted on a plaque below the sign may be used.
- When possible, PCMS units should be located in advance of the last available exit ramp prior to the lane closure to allow motorists an alternate route. They may also be relocated to improve advance warning in case of unanticipated queuing or congestion.
- For Intermediate Term Stationary work at night, floodlights should be used to illuminate the work area and equipment crossings. Floodlights shall not produce a disabling glare condition for road users or workers.
- The END ROAD WORK (G20-2) sign may be omitted when it conflicts with G20-2 signs already in place on the project.

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

Texas Department of Transportation
Traffic Operations Division Standard

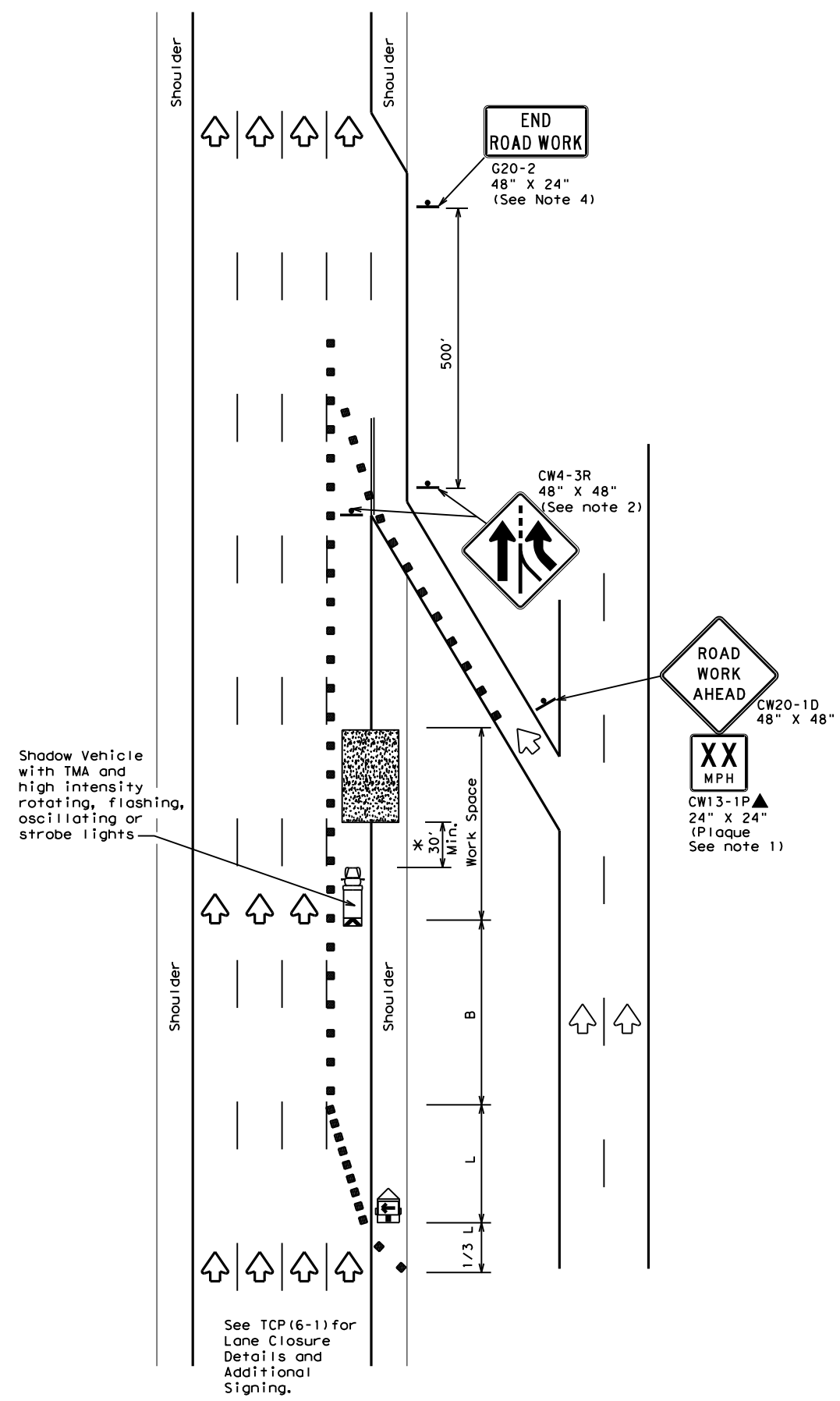
**TRAFFIC CONTROL PLAN
FREEWAY LANE CLOSURES**

TCP (6-1) - 12

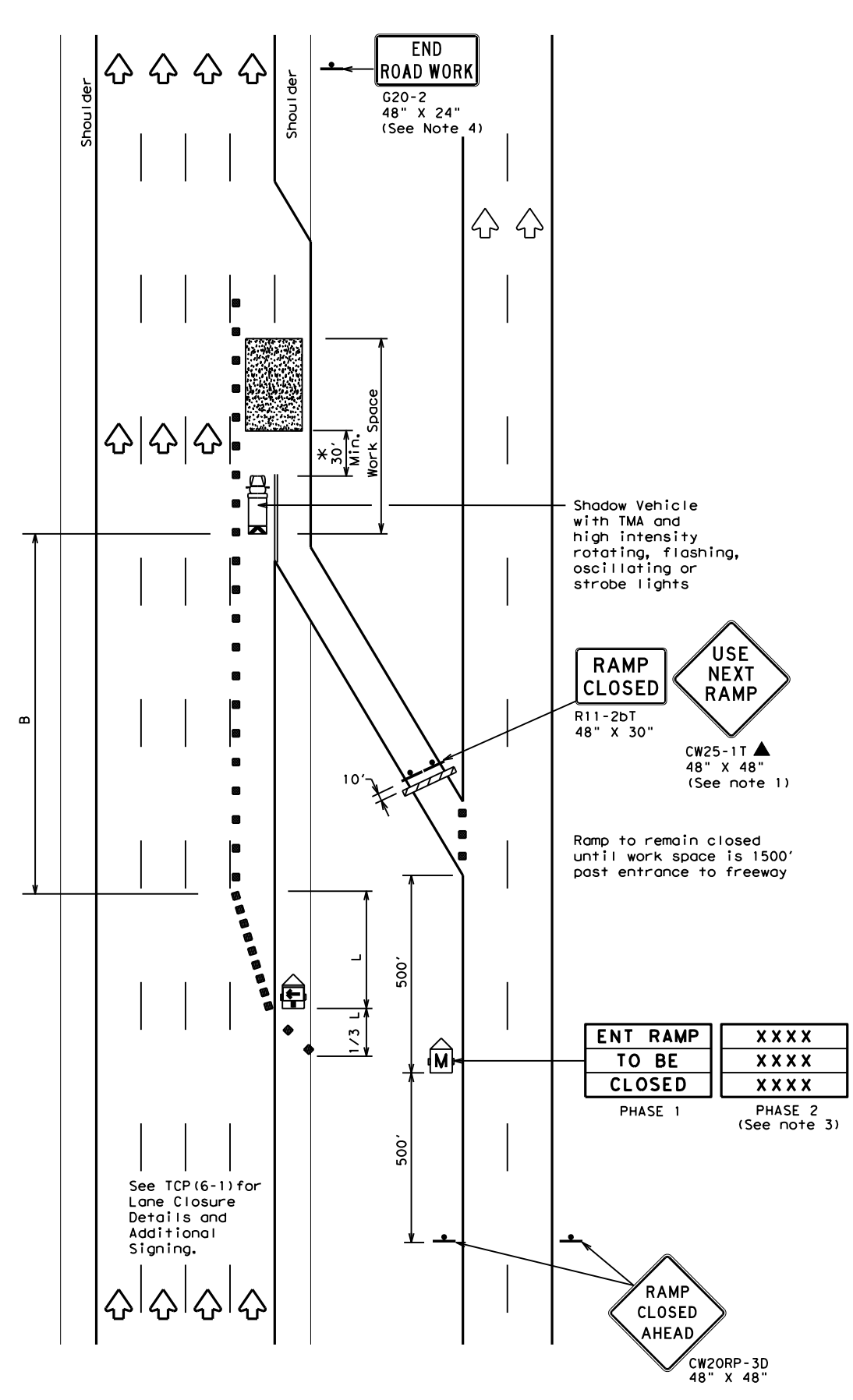
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©TxDOT	February 1998	CONT	SECT	JOB	HIGHWAY				
8-12	REVISIONS	6353	00	001	IH-2, ETC.				
	DIST	COUNTY		SHEET NO.					
	21	HIDALGO, ETC.		229					

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DATE:
FILE:



TCP (6-2a)
ENTRANCE RAMP OPEN
WORK WITHIN 500' OF RAMP



TCP (6-2b)
ENTRANCE RAMP CLOSED

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

Posted Speed	Formula	Minimum Desirable Taper Lengths "L"			Suggested Maximum Spacing of Channelizing Devices		Suggested Longitudinal Buffer Space "B"
		10' Offset	11' Offset	12' Offset	On a Taper	On a Tangent	
45	L = WS	450'	495'	540'	45'	90'	195'
50		500'	550'	600'	50'	100'	240'
55		550'	605'	660'	55'	110'	295'
60		600'	660'	720'	60'	120'	350'
65		650'	715'	780'	65'	130'	410'
70		700'	770'	840'	70'	140'	475'
75		750'	825'	900'	75'	150'	540'
80		800'	880'	960'	80'	160'	615'

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

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

GENERAL NOTES

- All traffic control devices illustrated are REQUIRED. Devices denoted with the triangle symbol may be omitted when stated elsewhere in the plans.
- ADDED LANE Symbol (CW4-3) sign may be omitted when sign between ramp and mainlane can be seen from both roadways.
- See "Advance Notice List" on BC(6) for recommended date and time formatting options for PCMS Phase 2 message.
- The END ROAD WORK (G20-2) sign may be omitted when it conflicts with G20-2 signs already in place on the project.

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

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



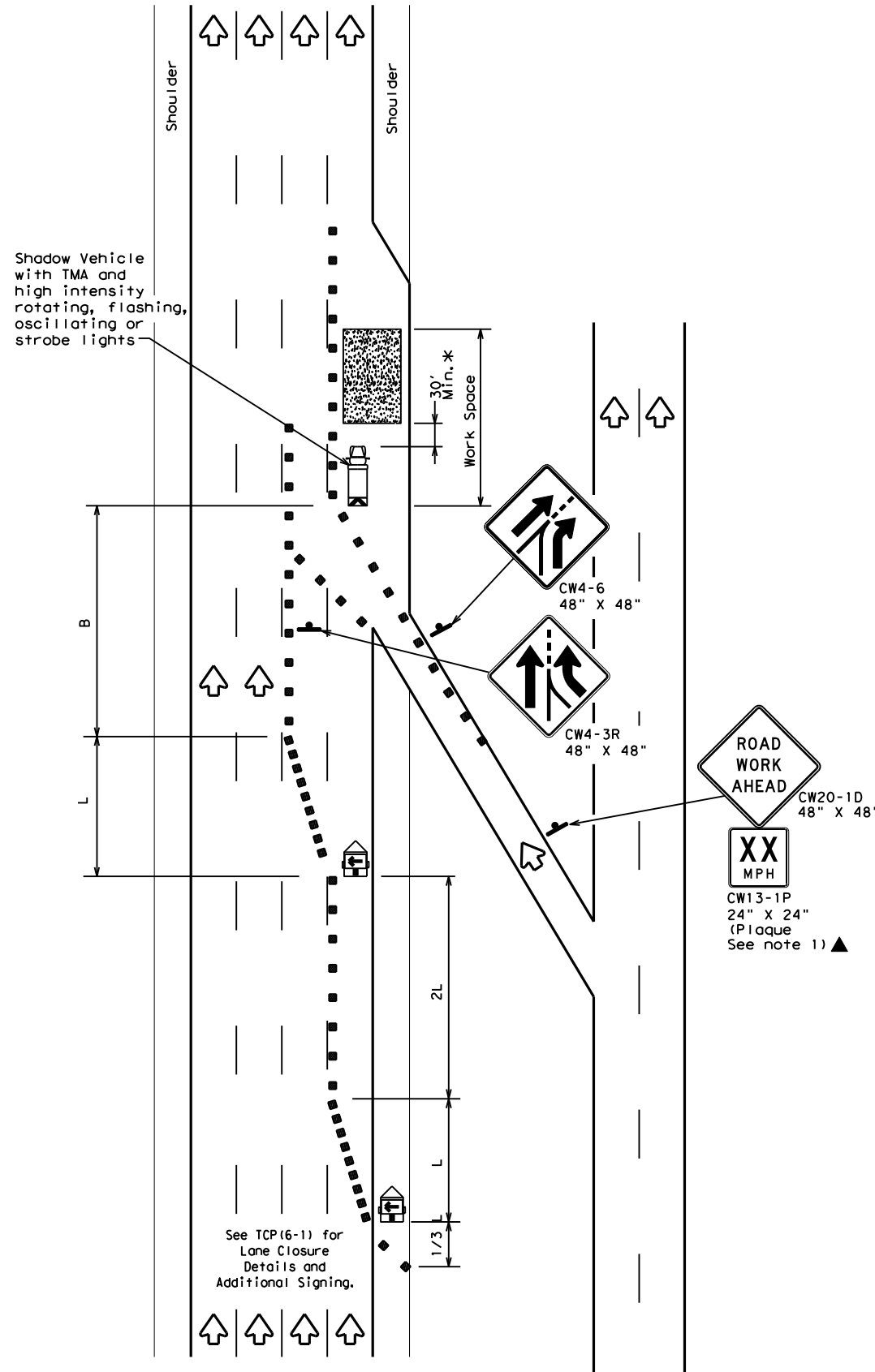
TRAFFIC CONTROL PLAN
WORK AREA NEAR RAMP

TCP (6-2) - 12

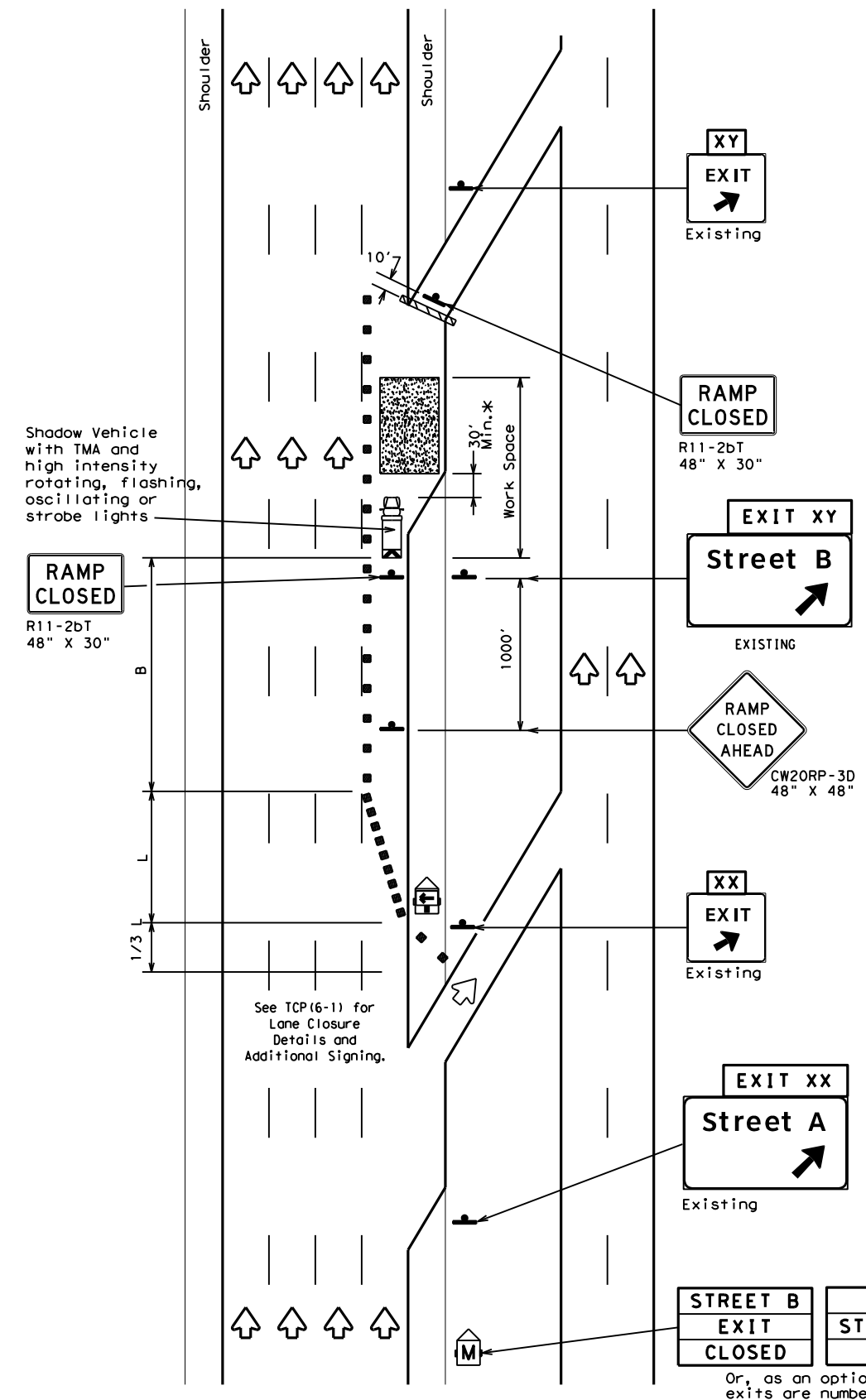
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©TxDOT February 1994	CONT SECT	JOB	HIGHWAY	
REVISIONS	6353 00	001	IH-2, ETC.	
1-97 8-98	DIST	COUNTY	SHEET NO.	
4-98 8-12	21	HIDALGO, ETC.	230	

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TCP (6-3a)
ENTRANCE RAMP OPEN



TCP (6-3b)
EXIT RAMP CLOSED
TRAFFIC EXITS PRIOR TO CLOSED RAMP

STREET B
EXIT
CLOSED

USE
STREET A
EXIT

Or, as an option when exits are numbered

EXIT XY
CLOSED

USE
EXIT XX

Place 1 mile (approx.) in advance of Street A exit.

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

Posted Speed	Formula	Minimum Desirable Taper Lengths "L" **			Suggested Maximum Spacing of Channelizing Devices		Suggested Longitudinal Buffer Space "B"
		10' Offset	11' Offset	12' Offset	On a Taper	On a Tangent	
45	L = WS	450'	495'	540'	45'	90'	195'
50		500'	550'	600'	50'	100'	240'
55		550'	605'	660'	55'	110'	295'
60		600'	660'	720'	60'	120'	350'
65		650'	715'	780'	65'	130'	410'
70		700'	770'	840'	70'	140'	475'
75		750'	825'	900'	75'	150'	540'
80		800'	880'	960'	80'	160'	615'

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

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

GENERAL NOTES:
1. All traffic control devices illustrated are REQUIRED. Devices denoted with the triangle symbol may be omitted when stated elsewhere in the plans.

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

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

Texas Department of Transportation
Traffic Operations Division Standard

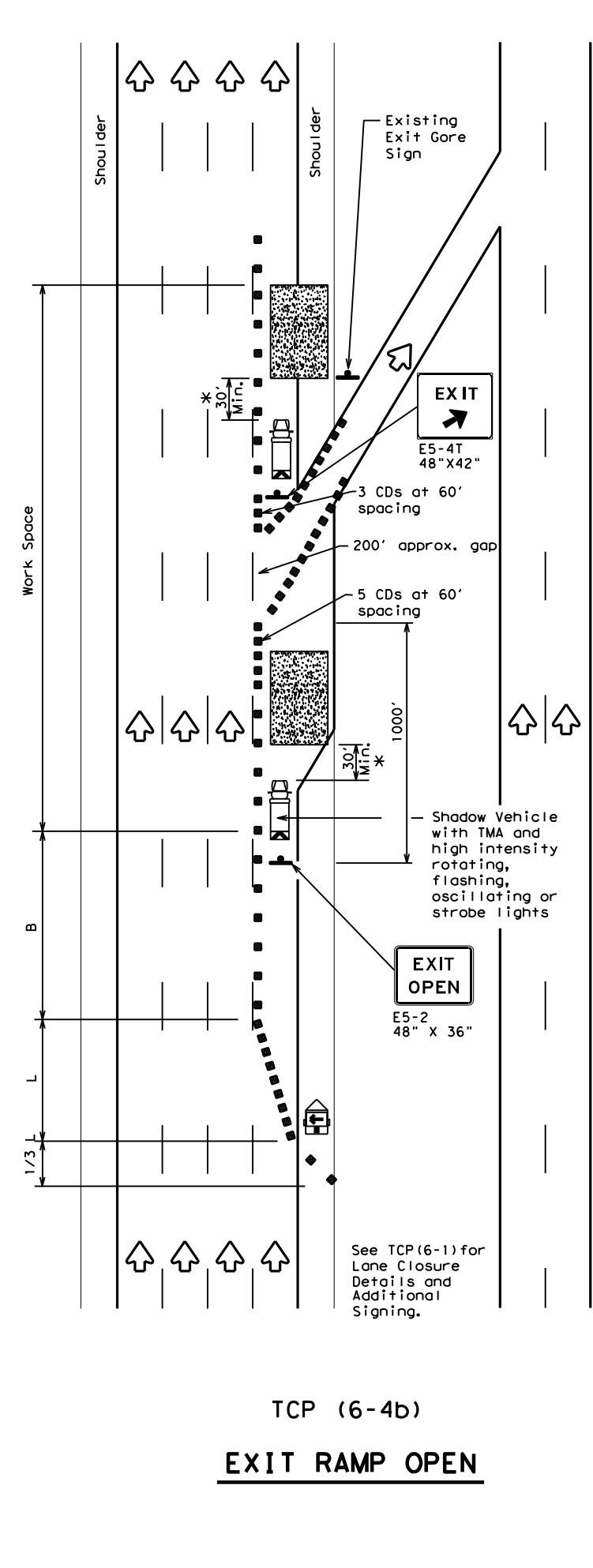
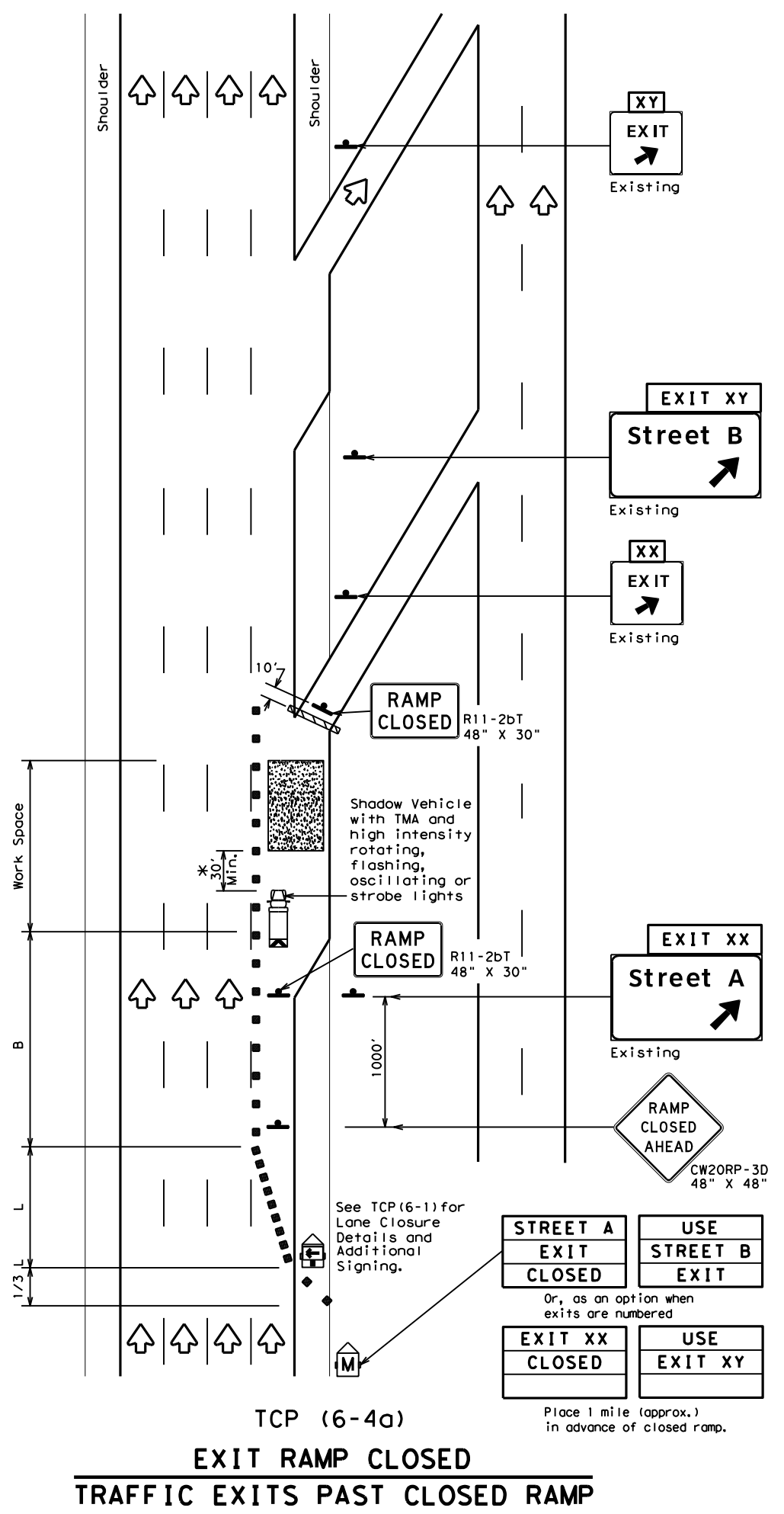
TRAFFIC CONTROL PLAN
WORK AREA BEYOND RAMP

TCP (6-3) - 12

FILE: tcp6-3.dgn	DN: TxDOT	CK: TxDOT	DW: TxDOT	CR: TxDOT
©TxDOT February 1994	CONT	SECT	JOB	HIGHWAY
REVISIONS	6353 00	001	IH-2, ETC.	
1-97 8-98	DIST	COUNTY	SHEET NO.	
4-98 8-12	21	HIDALGO, ETC.	231	

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LEGEND			
	Type 3 Barricade		Channelizing Devices (CDs)
	Heavy Work Vehicle		Truck Mounted Attenuator (TMA)
	Trailer Mounted Flashing Arrow Board		Portable Changeable Message Sign (PCMS)
	Sign		Traffic Flow
	Flag		Flagger

Posted Speed	Formula	Minimum Desirable Taper Lengths "L"			Suggested Maximum Spacing of Channelizing Devices		Suggested Longitudinal Buffer Space "B"
		10' Offset	11' Offset	12' Offset	On a Taper	On a Tangent	
45	L = WS	450'	495'	540'	45'	90'	195'
50		500'	550'	600'	50'	100'	240'
55		550'	605'	660'	55'	110'	295'
60		600'	660'	720'	60'	120'	350'
65		650'	715'	780'	65'	130'	410'
70		700'	770'	840'	70'	140'	475'
75		750'	825'	900'	75'	150'	540'
80		800'	880'	960'	80'	160'	615'

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

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

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

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

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

Texas Department of Transportation
 Traffic Operations Division Standard

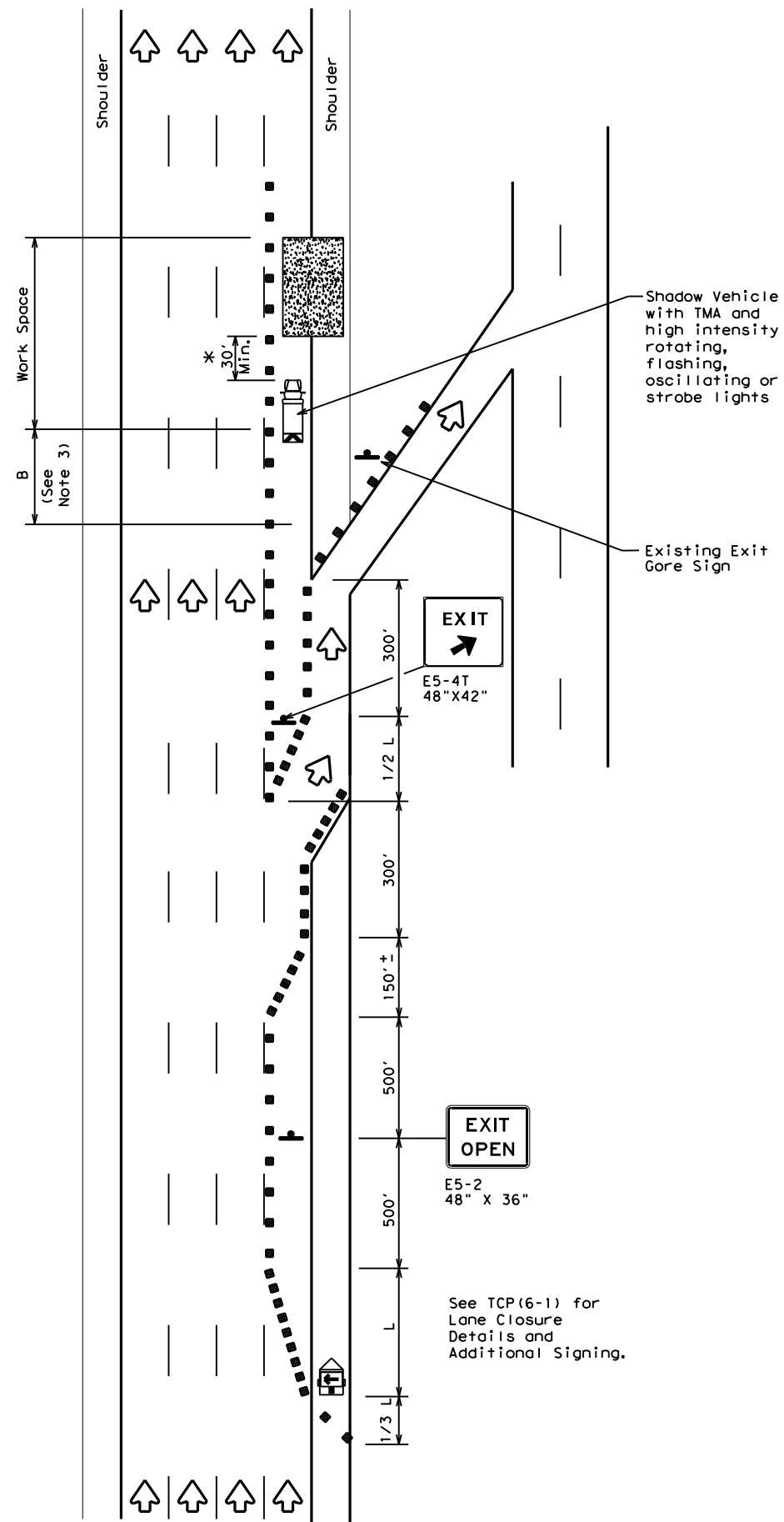
TRAFFIC CONTROL PLAN
WORK AREA AT EXIT RAMP

TCP (6-4) - 12

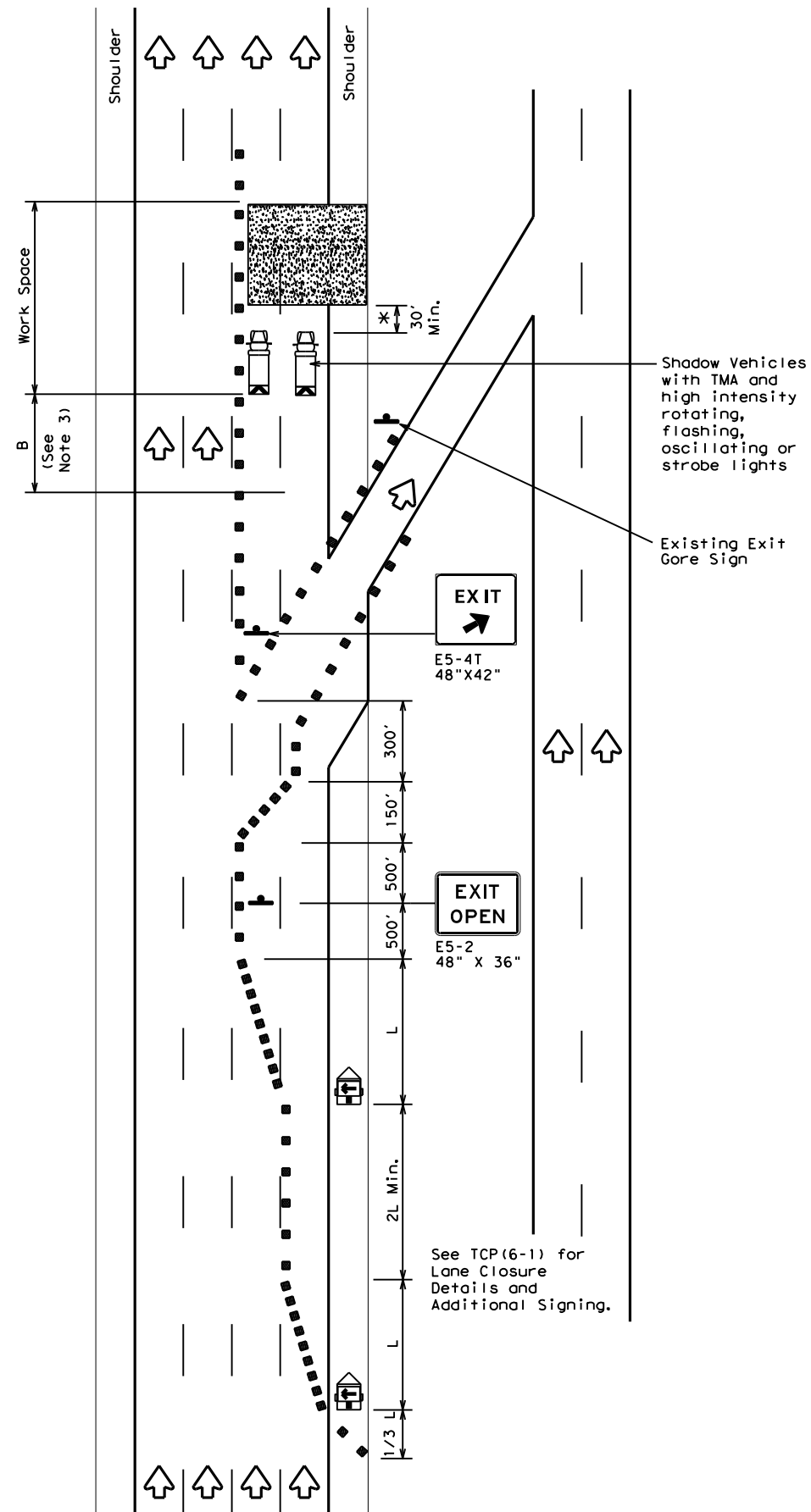
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©TxDOT February 1994	CONT	SECT	JOB	HIGHWAY
REVISIONS	6353 00	001	IH-2, ETC.	
1-97 8-98	DIST	COUNTY	SHEET NO.	
4-98 8-12	21	HIDALGO, ETC.	232	

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DATE: FILE:



TCP (6-5a)
EXIT RAMP OPEN



TCP (6-5b)
**EXIT RAMP OPEN
TWO LANE CLOSURE WITHIN
1500' PAST EXIT RAMP**

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

Posted Speed	Formula	Minimum Desirable Taper Lengths "L" * *			Suggested Maximum Spacing of Channelizing Devices		Suggested Longitudinal Buffer Space "B"
		10' Offset	11' Offset	12' Offset	On a Taper	On a Tangent	
45	L = WS	450'	495'	540'	45'	90'	195'
50		500'	550'	600'	50'	100'	240'
55		550'	605'	660'	55'	110'	295'
60		600'	660'	720'	60'	120'	350'
65		650'	715'	780'	65'	130'	410'
70		700'	770'	840'	70'	140'	475'
75		750'	825'	900'	75'	150'	540'
80		800'	880'	960'	80'	160'	615'

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

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

GENERAL NOTES

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

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

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



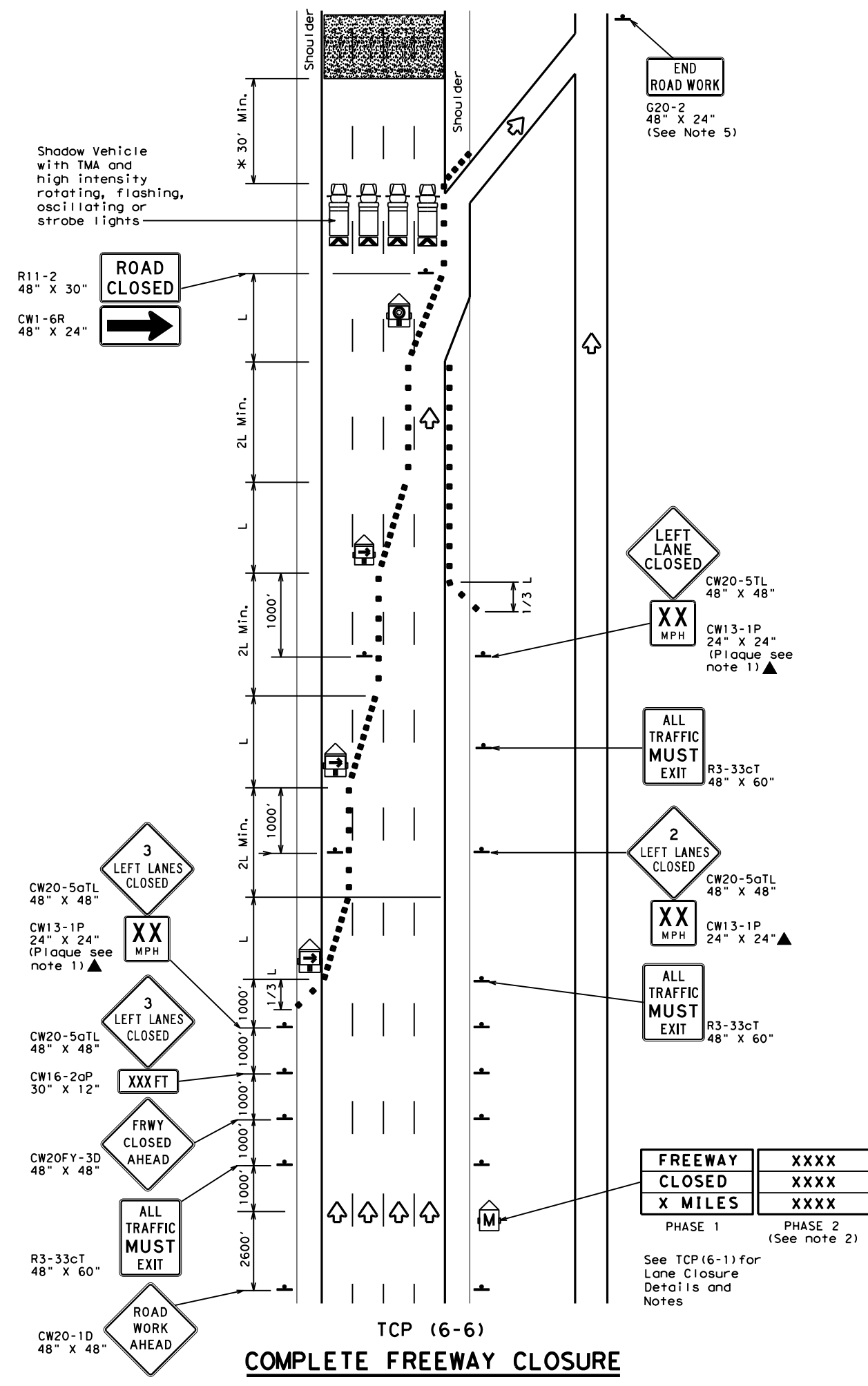
**TRAFFIC CONTROL PLAN
WORK AREA BEYOND EXIT RAMP**

TCP (6-5) - 12

FILE: tcp6-5.dgn	DN: TxDOT	CK: TxDOT	DW: TxDOT	CR: TxDOT
©TxDOT February 1998	CONT	SECT	JOB	HIGHWAY
REVISIONS	6353 00	001	IH-2, ETC.	
1-97 8-98	DIST	COUNTY	SHEET NO.	
4-98 8-12	21	HIDALGO, ETC.	233	

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FILE:



LEGEND			
	Type 3 Barricade		Channelizing Devices
	Heavy Work Vehicle		Truck Mounted Attenuator (TMA)
	Trailer Mounted Flashing Arrow Board		Portable Changeable Message Sign (PCMS)
	Flashing Arrow Board in Caution Mode		Traffic Flow
	Sign		

Posted Speed	Formula	Minimum Desirable Taper Lengths "L"			Suggested Maximum Spacing of Channelizing Devices		Suggested Longitudinal Buffer Space "B"
		10' Offset	11' Offset	12' Offset	On a Taper	On a Tangent	
45	L = WS	450'	495'	540'	45'	90'	195'
50		500'	550'	600'	50'	100'	240'
55		550'	605'	660'	55'	110'	295'
60		600'	660'	720'	60'	120'	350'
65		650'	715'	780'	65'	130'	410'
70		700'	770'	840'	70'	140'	475'
75		750'	825'	900'	75'	150'	540'
80		800'	880'	960'	80'	160'	615'

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

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

GENERAL NOTES

- All traffic control devices illustrated are REQUIRED. Devices denoted with the triangle symbol may be omitted when stated elsewhere in the plans.
- Phase 2 of the PCMS message should include appropriate information formatted as shown on BC(6), such as "MERGE RIGHT," recommended speed, delay, exit information, or other specific warnings.
- Where queuing is anticipated beyond signing shown, additional PCMS signs, other warning signs, devices or Law Enforcement Officers should be available to warn approaching high speed traffic of the end of the queue, as directed by the Engineer.
- Entrance ramps located from the advance warning area to the exit ramp should be closed whenever possible.
- The END ROAD WORK (G20-2) sign may be omitted when it conflicts with G20-2 signs already in place on the project.

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

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

Texas Department of Transportation
Traffic Operations Division Standard

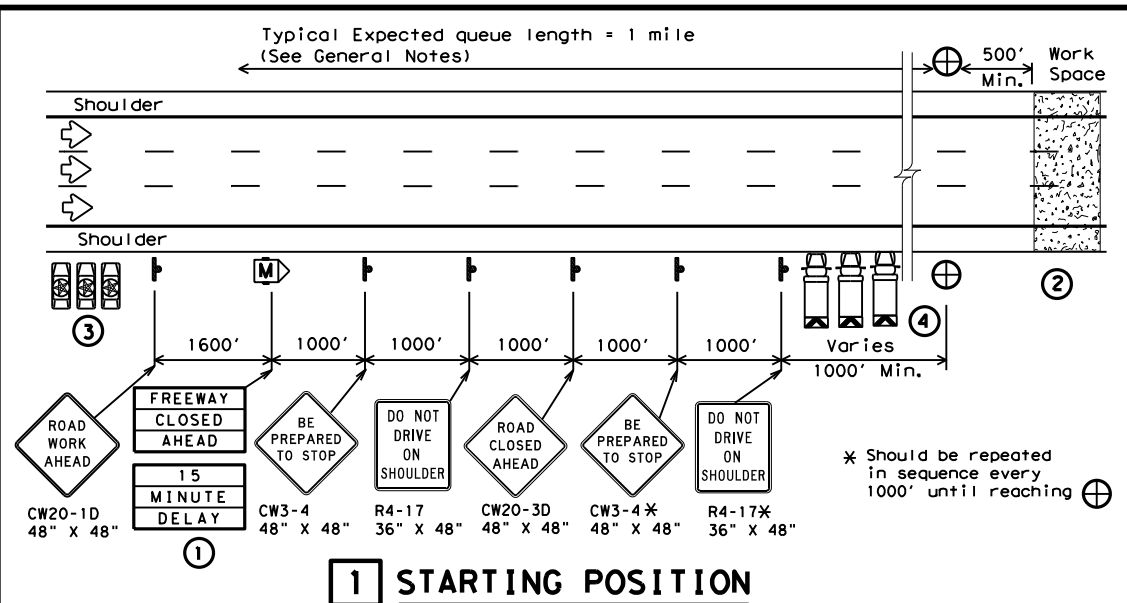
TRAFFIC CONTROL PLAN FREEWAY CLOSURE

TCP (6-6) - 12

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©TxDOT February 1994	CONT	SECT	JOB	HIGHWAY
REVISIONS	6353 00	001	IH-2, ETC.	
1-97 8-98	DIST	COUNTY	SHEET NO.	
4-98 8-12	21	HIDALGO, ETC.	234	

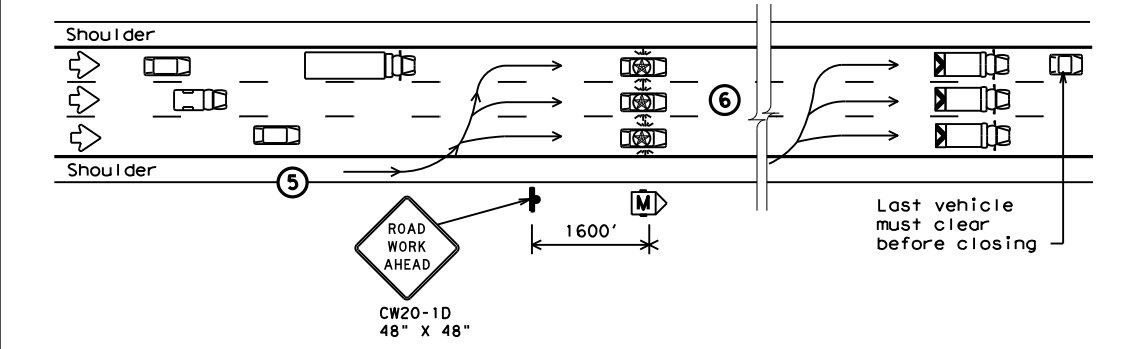
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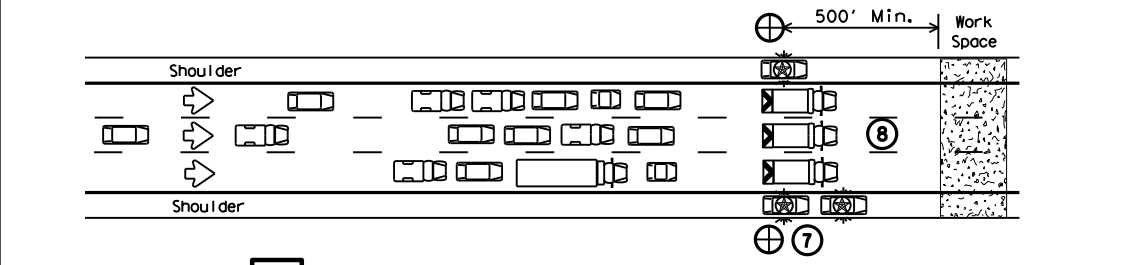
1 STARTING POSITION

- ① Traffic control devices should be installed or located near their intended position prior to beginning temporary roadway closure sequence. Duplicate signs should be erected on the median side of the roadway when median width permits. Warning signs should not be placed on the paved shoulders that will be used by the WARNING LEOV, or where movement of the LEOVs or barrier vehicles will be impeded.
- ② Prior to beginning the roadway closure sequence, all equipment, materials, personnel, and other items necessary to complete the work should be gathered near the work area. Entrance ramps located in the area where a queue is expected to build should be closed.
- ③ There should be one LEOV for every lane to be controlled, plus a minimum of one to warn traffic approaching a queue. An additional lead law enforcement officer is desirable to remain with the Engineer's or Contractor's point of contact (POC) during the operation in order to improve communication with all LEOVs involved.
- ④ One barrier vehicle with a Truck Mounted Attenuator and amber or blue and amber high intensity flashing/oscillating/strobe lighting shall be used for each lane to be closed.



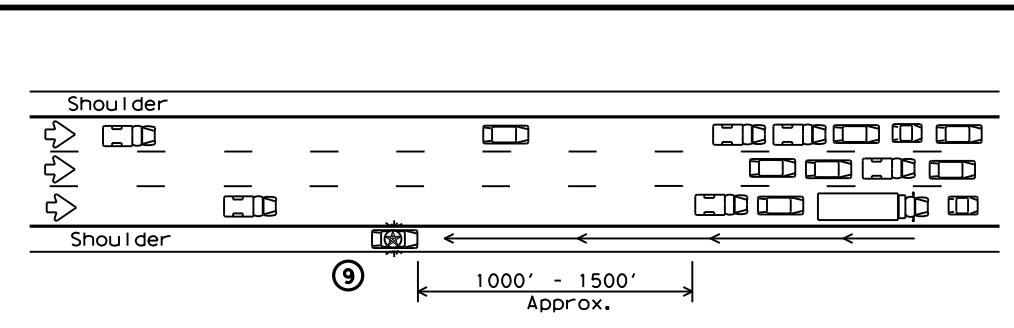
2 REDUCING SPEED OPERATION

- ⑤ Starting position of the LEOVs should be in advance of the most distant warning signs.
- ⑥ Once the LEOVs have achieved an abreast blocking formation while traveling toward the CP, emergency lights and headlights should be turned "ON". The LEOVs should maintain formation, not allow traffic to pass, and begin to decelerate. The LEOVs should continue to decelerate, giving the barrier vehicles opportunity to be staged upstream of the work space after traffic has cleared. The LEOVs should then continue to decelerate slowly until bringing traffic to a stop near the barrier vehicles.



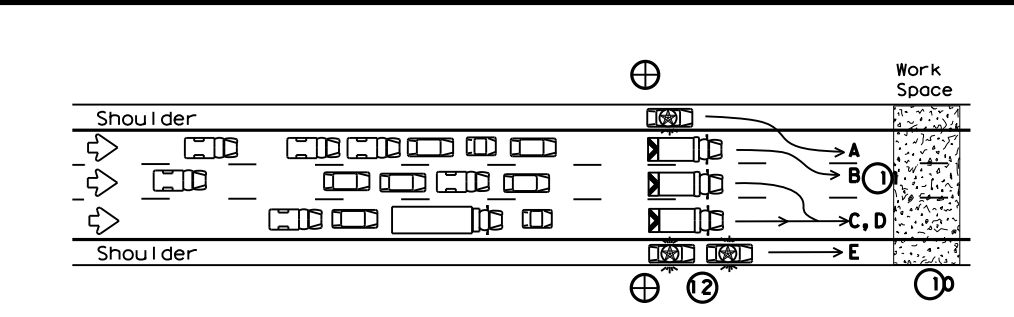
3 ALL TRAFFIC STOPPED AT CP

- ⑦ Once traffic is stopped the LEOVs should park on the shoulders with emergency lighting "ON" in order to provide law enforcement presence at the closure and keep shoulders blocked ahead of the work space. They should stay in radio contact with the WARNING LEOV.
- ⑧ The barrier vehicles should be parked, one in each lane, the parking brake set, with the high visibility flashing/oscillating/strobe lighting "ON," and the transmission in gear.



4 WARNING THE TRAFFIC QUEUE

- ⑨ The WARNING LEOV should proceed to the right shoulder of the roadway, with emergency lights on approximately 1000' in advance of the traffic queue (stopped traffic) as the queue develops. When determined that limited sight distance situations (crest of hills, sharp roadway curvature, etc.) may occur to motorists approaching the queue, the WARNING LEOV may proceed 1/4 mile or more in advance of the queue.



5 RELEASING STOPPED TRAFFIC

- ⑩ All equipment, materials, personnel, and other items should be removed from the roadway and maintain an adequate clear zone.
- ⑪ When the roadway is clear for traffic, the LEOV should proceed forward from the left shoulder followed by the barrier vehicles, from left to right, as shown alphabetically in the plan view.
- ⑫ The LEOV or LEOVs on the right shoulder may remain on the shoulder until satisfied that traffic is moving satisfactorily before merging or proceeding.
- ⑬ LEOVs and barrier vehicles should re-group at their respective starting positions if necessary.

LEGEND			
■ ■	Channelizing Devices	⊕	Control Position (CP)
M	Portable Changeable Message Sign (PCMS)	⊠	Barrier Vehicle with Truck Mounted Attenuator
Ⓜ	Law Enforcement Officer's Vehicle (LEOV)	←	Traffic Flow

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

GENERAL NOTES

1. All traffic control devices shall conform with the latest edition of the Texas Manual on Uniform Traffic Control Devices (TMUTCD). Additional guidelines for traffic control devices may be found in the TMUTCD. Signs conflicting with the roadway closure sequence should be completely removed or covered. Additional traffic control devices may be required for closure of access roads, cross streets, exit and entrance ramps as directed by the Engineer.
2. Law enforcement officers and all workers involved should review and understand all procedures before the roadway closure sequence begins. Pre-work meetings may be held for this purpose. Local emergency services and media should have advance notification of roadway closure, expected dates and approximate times of closures.
3. Law enforcement officers shall be in uniform and have jurisdiction in the locale of the work area. An additional WARNING Law Enforcement Officer's Vehicle (LEOV) may be used on the median side of the roadway where median shoulder width permits (See sequence #9).
4. The roadway closure should be during off-peak hours, as shown in the plans, or as directed by the Engineer.
5. Work should be limited to approximately 15 minutes maximum duration unless otherwise directed by the Engineer based on existing roadway conditions. If the work is not complete within 15 minutes, or if the end of the traffic queue extends past the most distant advance warning signs, the work area should be cleared of all equipment, materials, personnel, and other items, and the roadway reopened. When the queue has dissipated and the traffic flow appears normal the roadway closure sequence may be repeated.
6. For traffic volumes greater than 1000 Passenger Cars Per Hour Per Lane (PCPHPL), or for roadway closures that exceed 15 minutes, see details elsewhere in the plan.
7. If traffic queues beyond the advance warning signs during one road closure sequence, the advance warning should be extended prior to repeating the road closure sequence. When possible, PCMS signs should be located in advance of the last available exit prior to the closure to allow motorists the choice of an alternate route.

THIS PLAN IS INTENDED TO BE USED AT LOCATIONS/TIMES WHEN TRAFFIC VOLUMES ARE LESS THAN 1000 PASSENGER CARS PER HOUR PER LANE.

Texas Department of Transportation
 Traffic Operations Division Standard

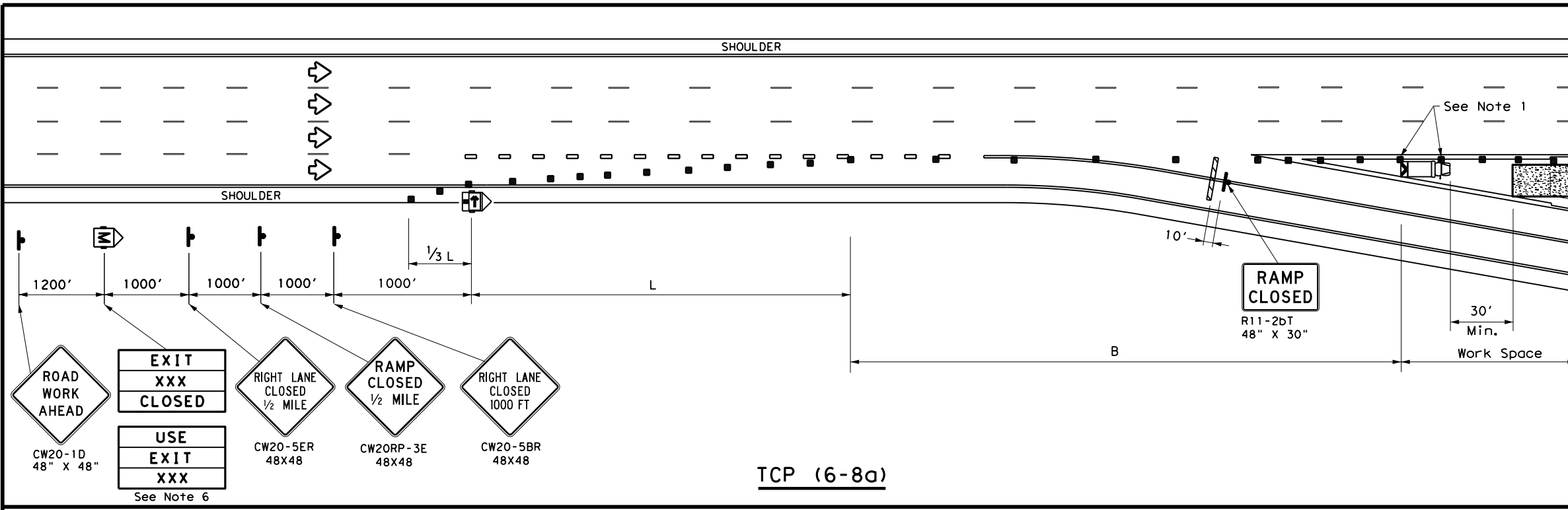
TRAFFIC CONTROL PLAN SHORT DURATION FREEWAY CLOSURE SEQUENCE

TCP (6-7) - 12

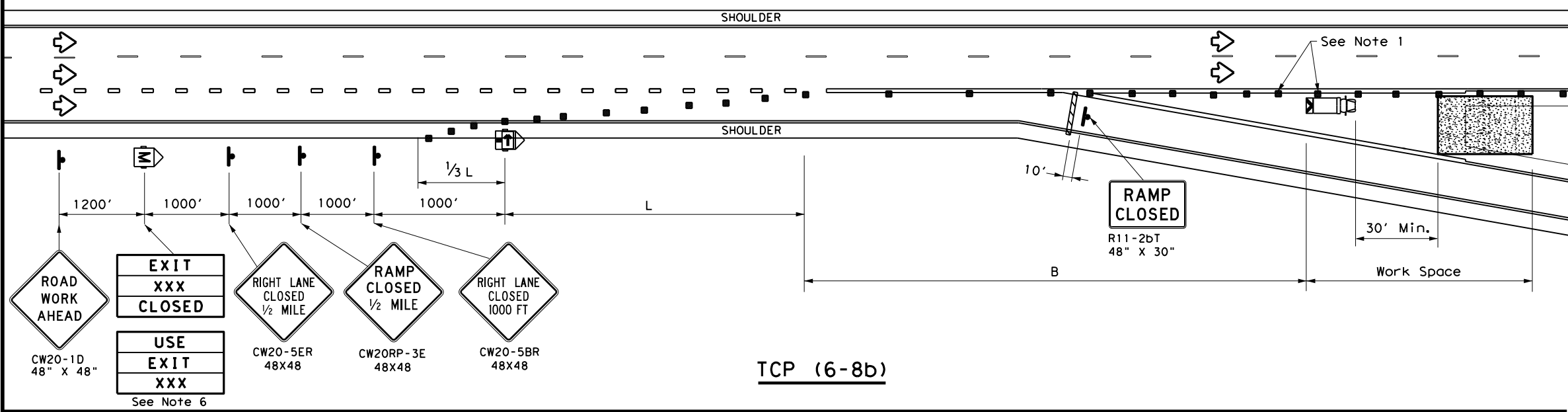
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©TxDOT February 1998	CONT	SECT	JOB	HIGHWAY
REVISIONS	6353 00	001	IH-2, ETC.	
1-97 8-12	DIST	COUNTY	SHEET NO.	
4-98	21	HIDALGO, ETC.	235	

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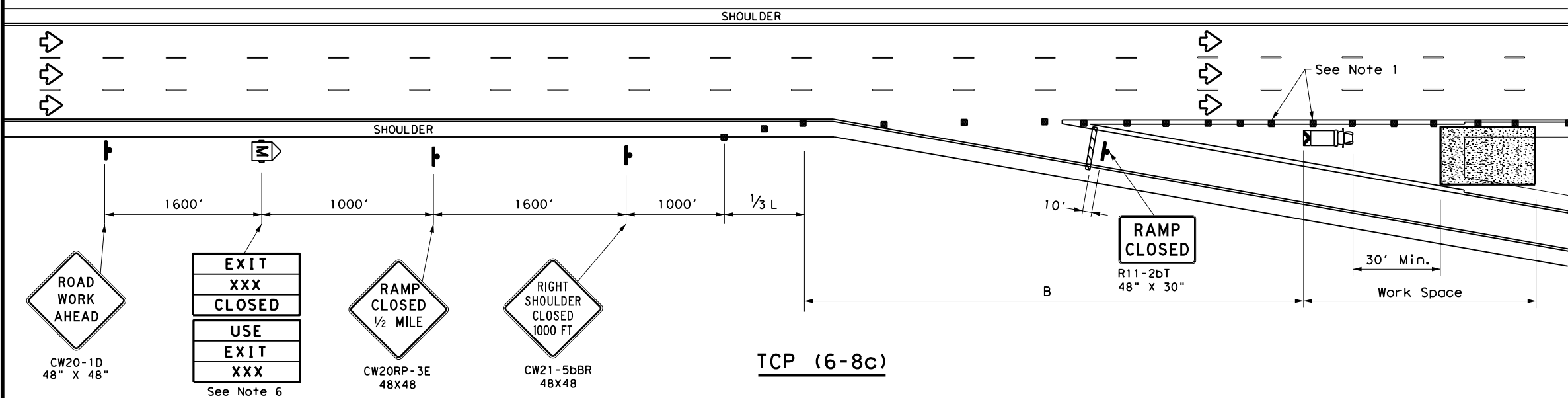
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TCP (6-8a)



TCP (6-8b)



TCP (6-8c)

LEGEND			
	Type 3 Barricade		Channelizing Devices (CDs)
	Heavy Work Vehicle		Truck Mounted Attenuator (TMA)
	Trailer Mounted Flashing Arrow Board		Portable Changeable Message Sign (PCMS)
	Sign		Traffic Flow
	Flag		Flagger

Posted Speed	Formula	Minimum Desirable Taper Lengths "L" **			Suggested Maximum Spacing of Channelizing Devices		Suggested Longitudinal Buffer Space "B"
		10' Offset	11' Offset	12' Offset	On a Taper	On a Tangent	
45	L = WS	450'	495'	540'	45'	90'	195'
50		500'	550'	600'	50'	100'	240'
55		550'	605'	660'	55'	110'	295'
60		600'	660'	720'	60'	120'	350'
65		650'	715'	780'	65'	130'	410'
70		700'	770'	840'	70'	140'	475'
75		750'	825'	900'	75'	150'	540'
80		800'	880'	960'	80'	160'	615'

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

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

- GENERAL NOTES**
- Place channelizing devices in the gore at 20' spacing.
 - See the Standard Highway Sign Design for Texas (SHSD) for sign details.
 - The PCMS may be omitted when a permanent DMS sign is available in an appropriate location to display a similar message as called for on the PCMS.
 - When it is determined that a through lane should be closed in addition to the exit ramp, refer to TCP(6-4) for traffic control details.
 - Truck mounted attenuator is required.
 - The PCMS may be omitted if replaced with a "RAMP CLOSED" AHEAD (CW20RP-3D) Sign.
 - Roadway ADT should be greater than 10,000.

Texas Department of Transportation
 Traffic Operations Division Standard

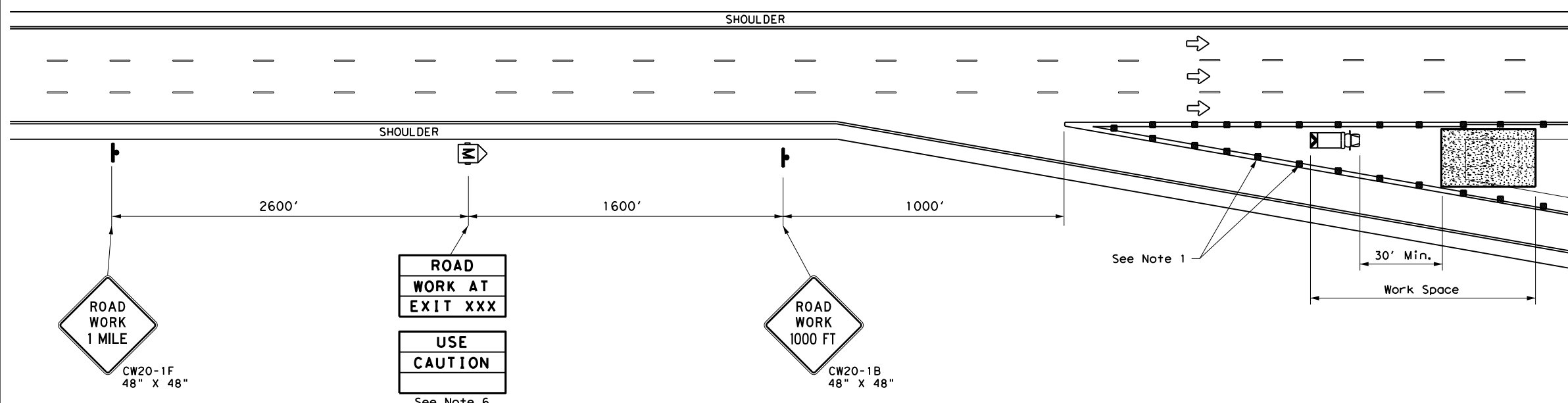
WORK IN EXIT GORE FOR ADT GREATER THAN 10,000

TCP (6-8) - 14

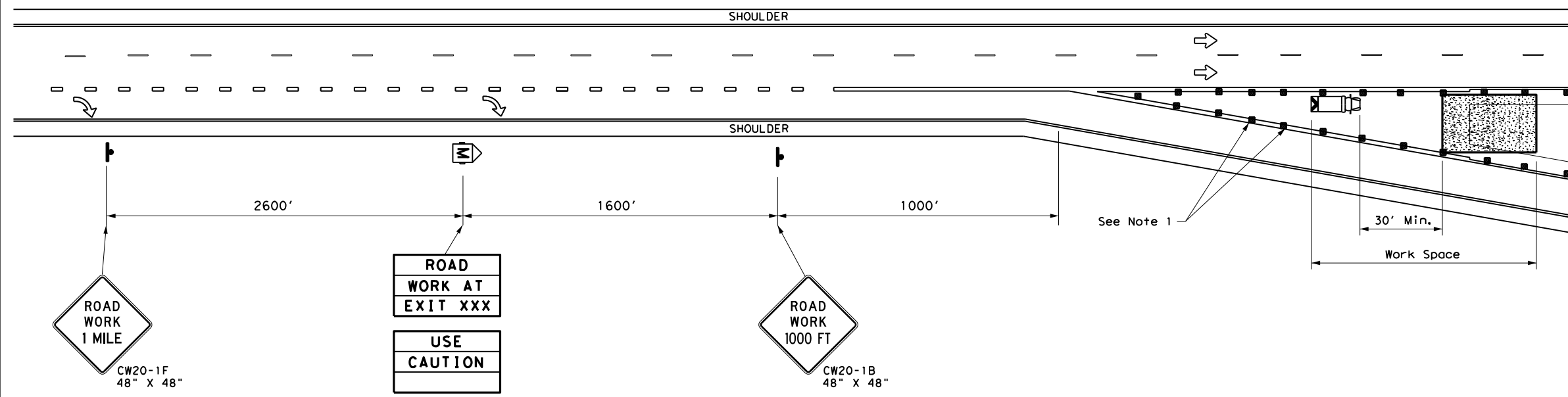
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© TxDOT February 2014	CONT	SECT	JOB	HIGHWAY
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DIST	COUNTY		SHEET NO.	
21	HIDALGO, ETC.		236	

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TCP (6-9a)



TCP (6-9b)

LEGEND			
	Type 3 Barricade		Channelizing Devices (CDs)
	Heavy Work Vehicle		Truck Mounted Attenuator (TMA)
	Trailer Mounted Flashing Arrow Board		Portable Changeable Message Sign (PCMS)
	Sign		Traffic Flow
	Flag		Flagger

Posted Speed	Formula	Minimum Desirable Taper Lengths "L" **			Suggested Maximum Spacing of Channelizing Devices		Suggested Longitudinal Buffer Space "B"
		10' Offset	11' Offset	12' Offset	On a Taper	On a Tangent	
45	L = WS	450'	495'	540'	45'	90'	195'
50		500'	550'	600'	50'	100'	240'
55		550'	605'	660'	55'	110'	295'
60		600'	660'	720'	60'	120'	350'
65		650'	715'	780'	65'	130'	410'
70		700'	770'	840'	70'	140'	475'
75		750'	825'	900'	75'	150'	540'
80		800'	880'	960'	80'	160'	615'

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

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

- GENERAL NOTES**
- Place channelizing devices in the gore at 20' spacing.
 - See the Standard Highway Sign Design for Texas (SHSD) for sign details.
 - The PCMS may be omitted when a permanent DMS sign is available in an appropriate location to display a similar message as called for on the PCMS.
 - When it is determined that a through lane should be closed in addition to the exit ramp, refer to TCP (6-4) and TCP (6-8) for traffic control details.
 - Truck mounted attenuators are required.
 - The PCMS may be omitted if replaced with a "ROAD WORK 1/2 MILE" (CW20-1E).
 - Roadway ADT should be less than 10,000.



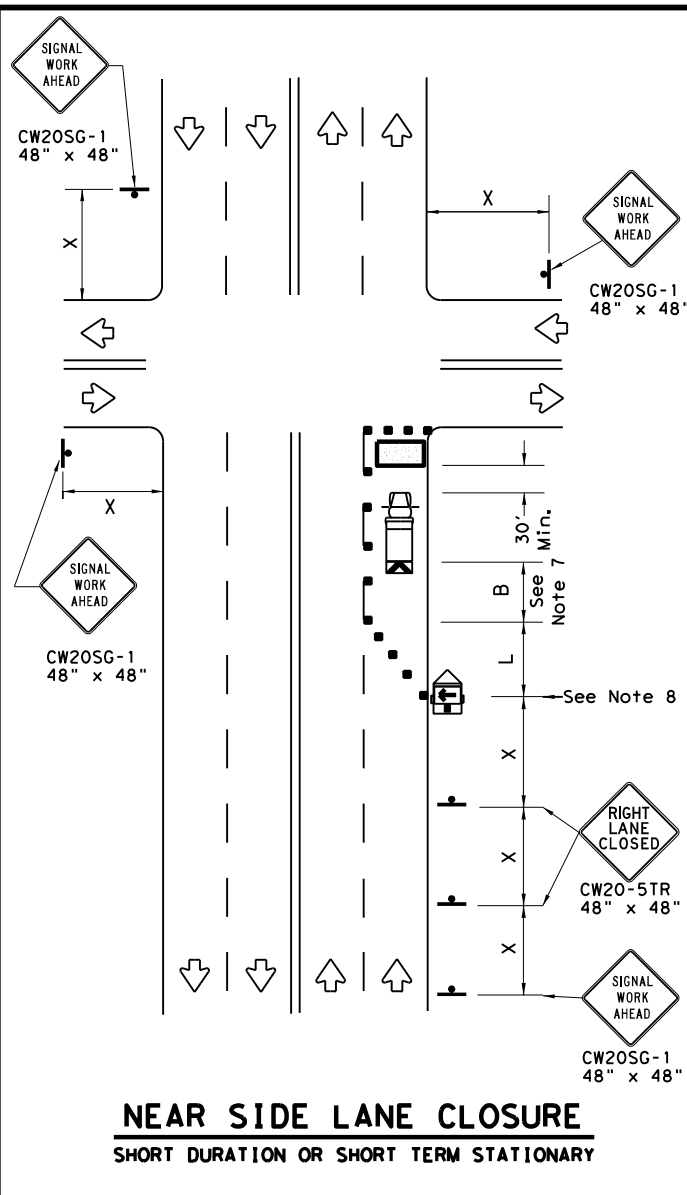
WORK IN EXIT GORE FOR ADT LESS THAN 10,000

TCP (6-9) - 14

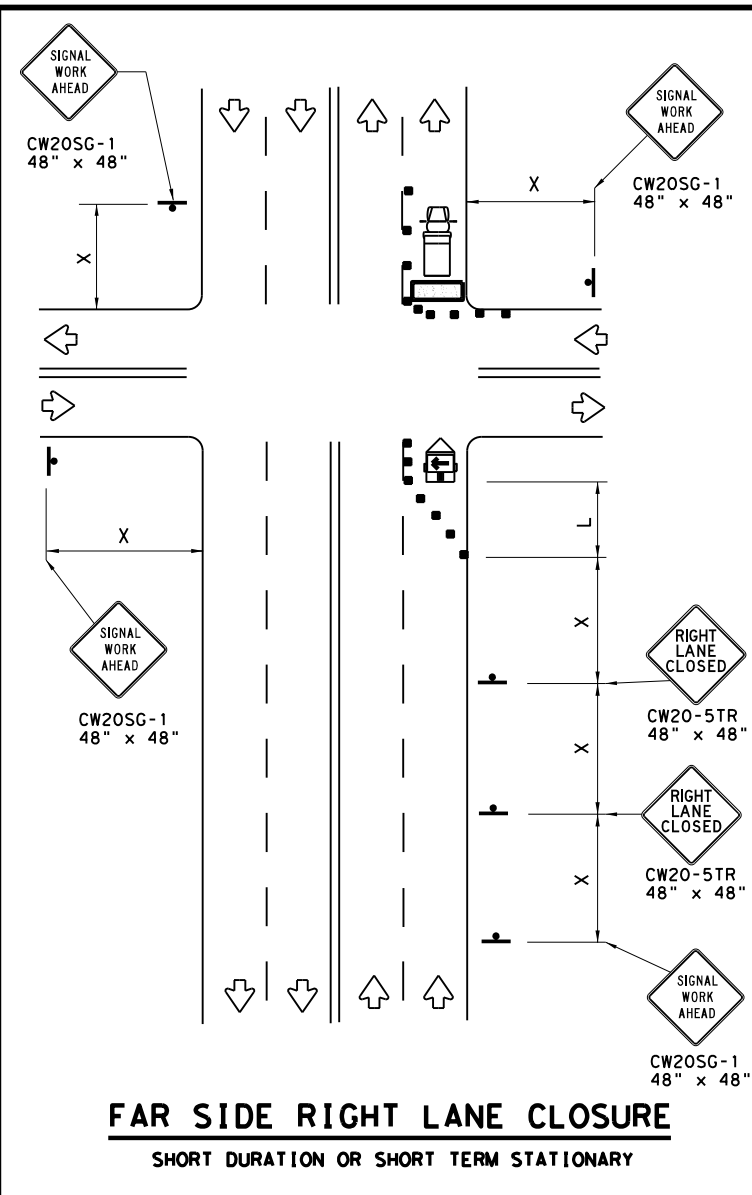
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© TxDOT February 2014	CONT	SECT	JOB	HIGHWAY
REVISIONS	6353	00	001	1H-2, ETC.
DIST	COUNTY	SHEET NO.		
21	HIDALGO, ETC.	237		

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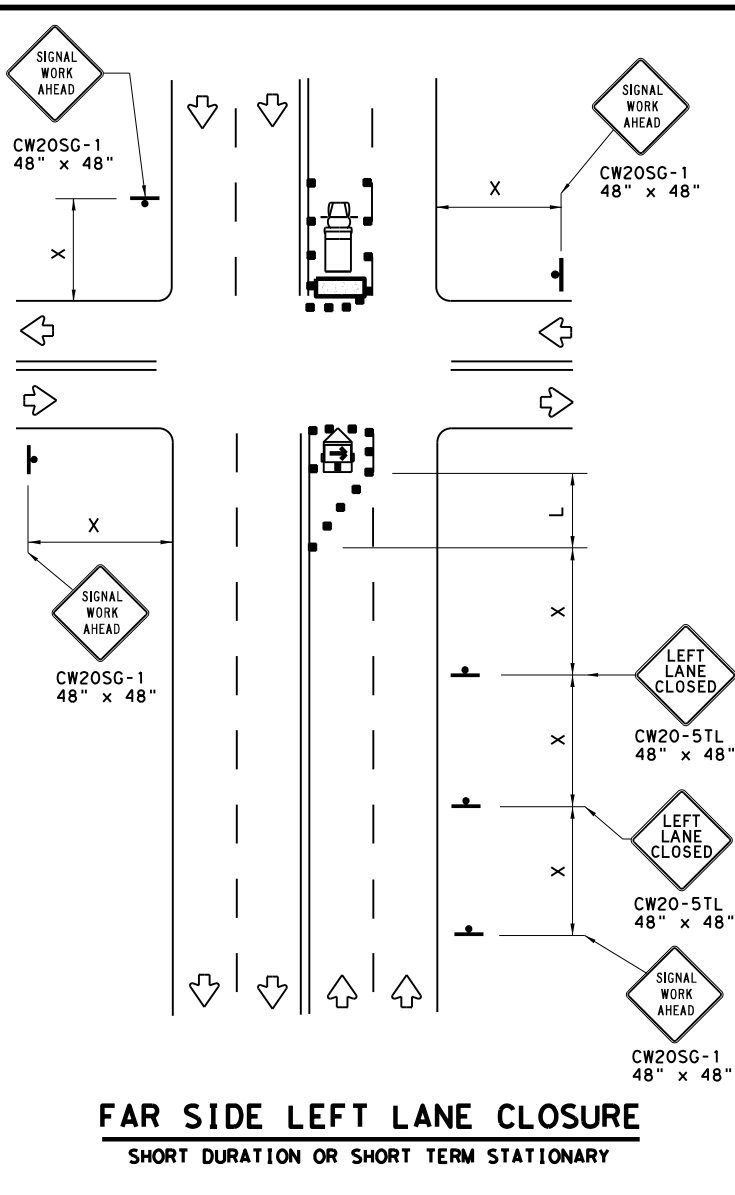
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NEAR SIDE LANE CLOSURE
SHORT DURATION OR SHORT TERM STATIONARY



FAR SIDE RIGHT LANE CLOSURE
SHORT DURATION OR SHORT TERM STATIONARY



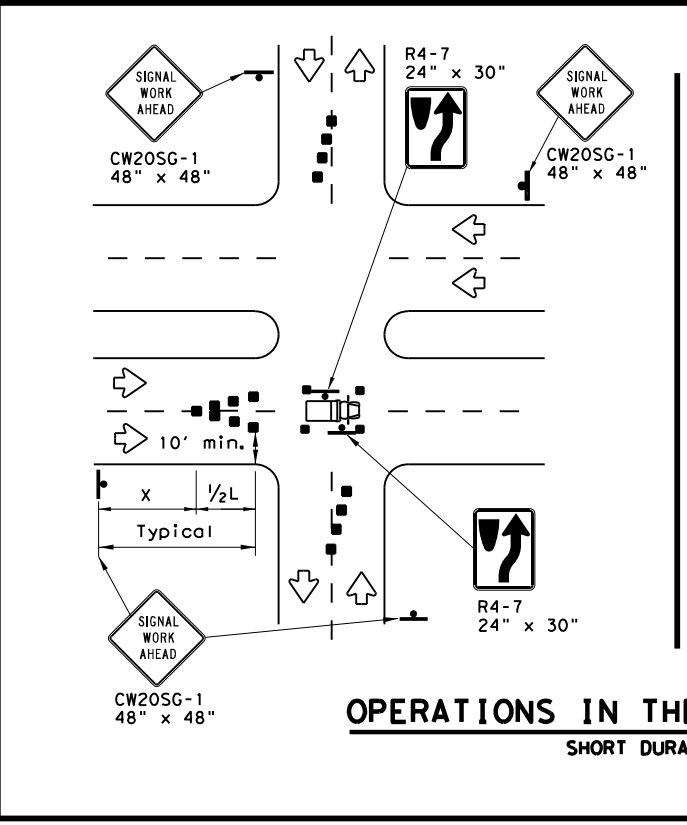
FAR SIDE LEFT LANE CLOSURE
SHORT DURATION OR SHORT TERM STATIONARY

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

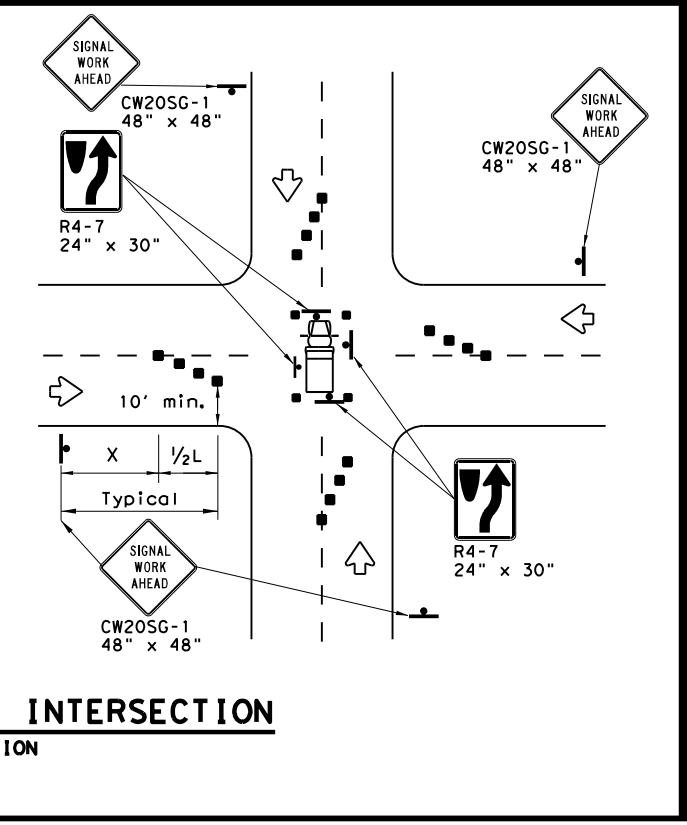
Posted Speed *	Formula	Minimum Desirable Taper Lengths **			Suggested Maximum Spacing of Channelizing Devices		Minimum Sign Spacing "x" Distance	Suggested Longitudinal Buffer Space "B"
		10' Offset	11' Offset	12' Offset	On a Taper	On a Tangent		
30	$L = \frac{WS^2}{60}$	150'	165'	180'	30'	60'	120'	90'
35		205'	225'	245'	35'	70'	160'	120'
40		265'	295'	320'	40'	80'	240'	155'
45	L = WS	450'	495'	540'	45'	90'	320'	195'
50		500'	550'	600'	50'	100'	400'	240'
55		550'	605'	660'	55'	110'	500'	295'
60		600'	660'	720'	60'	120'	600'	350'
65		650'	715'	780'	65'	130'	700'	410'
70		700'	770'	840'	70'	140'	800'	475'
75		750'	825'	900'	75'	150'	900'	540'

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

WORKERS IN BUCKET TRUCKS SHALL NOT WORK ABOVE OPEN LANES OF TRAFFIC.



OPERATIONS IN THE INTERSECTION
SHORT DURATION



GENERAL NOTES

- The minimum size channelizing device is the 28" cone. 42" Two-piece cones, drums, vertical panels or barricades will be required when the device must be left unattended at night.
- Obstructions or hazards at the work area shall be clearly marked and delineated at all times.
- Flaggers and Flagger Symbol (CW20-7) signs may be required according to field conditions.
- Vehicles parked in roadway shall be equipped with at least two high intensity rotating, flashing, oscillating or strobe type lights.
- High level warning devices (flag trees) may be used at corners of the vehicle.
- When work operations are performed on existing signals, the signals may be placed in flashing red mode when approved by the engineer. If existing signals do not have power, All-Way Stop (R1-1 and R1-3P) signs may be implemented when approved by the engineer.
- For Short-Term Stationary work the buffer space "B" from the above table should be used if field conditions permit. For Short Duration (less than 1 hour) any buffer space provided will enhance the safety of the setup.
- The arrow board at this location may be omitted for Short Duration work if the work vehicle has an arrow board in operation. As an option, the arrow board may be placed at the end of the taper in the closed lane if space is not available at the beginning of the taper.
- Signs and devices for the NEAR SIDE LANE CLOSURE may be altered for a left lane closure by using a LEFT LANE CLOSED (CW20-5TL) and adding channelizing devices on the centerline to protect the work space from opposing traffic.



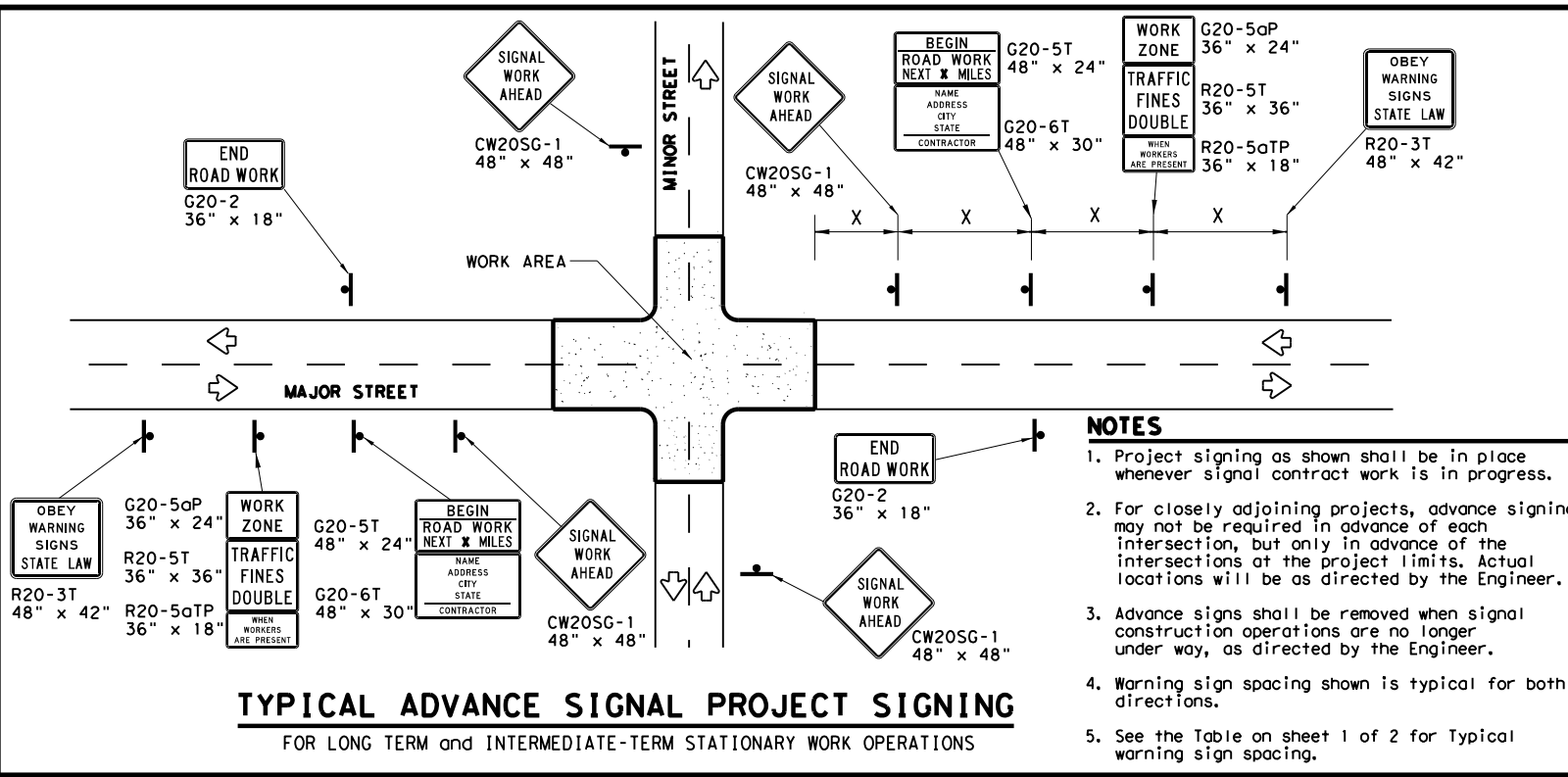
TRAFFIC SIGNAL WORK TYPICAL DETAILS

WZ(BTS-1)-13

FILE: wzbts-13.dgn	DN: TxDOT	CR: TxDOT	DW: TxDOT	CK: TxDOT
© TxDOT April 1992	CONT	SECT	JOB	HIGHWAY
REVISIONS	6353	00	001	IH-2, ETC.
2-98 10-99 7-13	DIST	COUNTY	SHEET NO.	
4-98 3-03	PHARR	HIDALGO, ETC.	238	

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- NOTES**
1. Project signing as shown shall be in place whenever signal contract work is in progress.
 2. For closely adjoining projects, advance signing may not be required in advance of each intersection, but only in advance of the intersections at the project limits. Actual locations will be as directed by the Engineer.
 3. Advance signs shall be removed when signal construction operations are no longer under way, as directed by the Engineer.
 4. Warning sign spacing shown is typical for both directions.
 5. See the Table on sheet 1 of 2 for Typical warning sign spacing.

GENERAL NOTES FOR WORK ZONE SIGNS

1. Signs shall be installed and maintained in a straight and plumb condition.
2. Wooden sign posts shall be painted white.
3. Barricades shall NOT be used as sign supports.
4. Nails shall NOT be used to attach signs to any support.
5. All signs shall be installed in accordance with the plans or as directed by the Engineer.
6. The Contractor shall furnish the sign design shown in the plans or in the "Standard Highway Sign Designs for Texas" (SHSD).
7. The Contractor shall furnish sign supports and substrates listed in the "Compliant Work Zone Traffic Control Device List" (CWZTCD), installed as per the manufacturer's recommendations.
8. Temporary signs that have damaged or cracked substrates and/or damaged or marred reflective sheeting shall be replaced as directed by the Engineer.
9. Identification markings may be shown only on the back of the sign substrate. The maximum height of letters and/or company logos used for identification shall be 1".
10. Damaged wood posts shall be replaced. Splicing wood posts will not be allowed.

DURATION OF WORK

1. Work zone durations are defined in Part 6, Section 60.02 of the Texas Manual on Uniform Traffic Control Devices (TMUTCD).

SIGN MOUNTING HEIGHT

1. Sign height of Long-term/Intermediate-term warning signs shall be as shown on Figure 6F-1 of the TMUTCD.
2. Sign height of Short-term/Short Duration warning signs shall be as shown on Figure 6F-2 of the TMUTCD.
3. Regulatory signs shall be mounted at least 7 feet, but not more than 9 feet, above the paved surface regardless of work duration.

REMOVING OR COVERING

1. When sign messages may be confusing or do not apply, the signs shall be removed or completely covered, unless otherwise approved by the Engineer.
2. When signs are covered, the material used shall be opaque, such as heavy mil black plastic, or other materials which will cover the entire sign face and maintain their opaque properties under automobile headlights at night without damaging the sign sheeting. Burlap, or heavy materials such as plywood or aluminum shall not be used to cover signs.
3. Duct tape or other adhesive material shall NOT be affixed to a sign face.
4. Signs and anchor stubs shall be removed and holes back filled upon completion of the work.

REFLECTIVE SHEETING

1. All signs shall be retroreflective and constructed of sheeting meeting the requirements of the DMS and color usage table shown on this sheet.

SIGN SUPPORT WEIGHTS

1. Weights used to keep signs from turning over should be sandbags filled with dry, cohesionless material.
2. The sandbags will be tied shut to keep the sand from spilling and to maintain a constant weight.
3. Rock, concrete, iron, steel or other solid objects will not be permitted for use as sign support weights.
4. Sandbags should weigh a minimum of 35 lbs and a maximum of 50 lbs.
5. Sandbags shall be made of a durable material that tears upon vehicular impact. Rubber, such as tire inner tubes, shall not be used.
6. 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.
7. 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.
8. Sandbags shall NOT be placed under the skid and shall not be used to level sign supports placed on slopes.

LEGEND

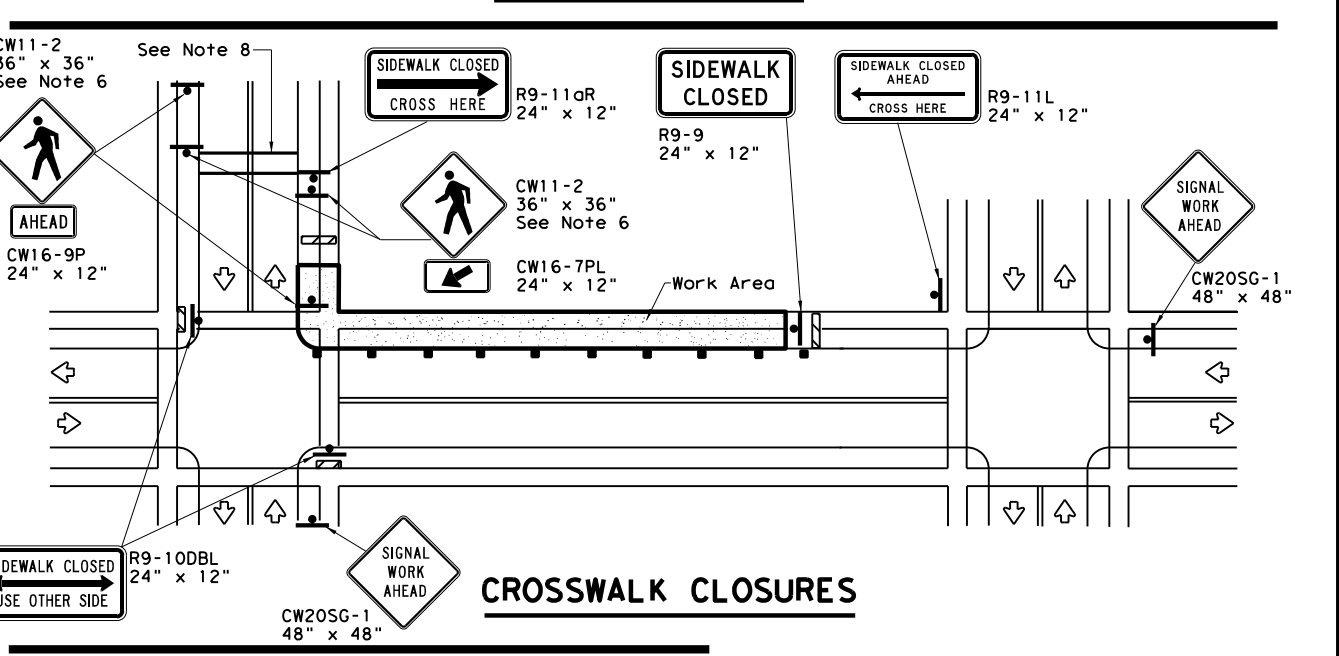
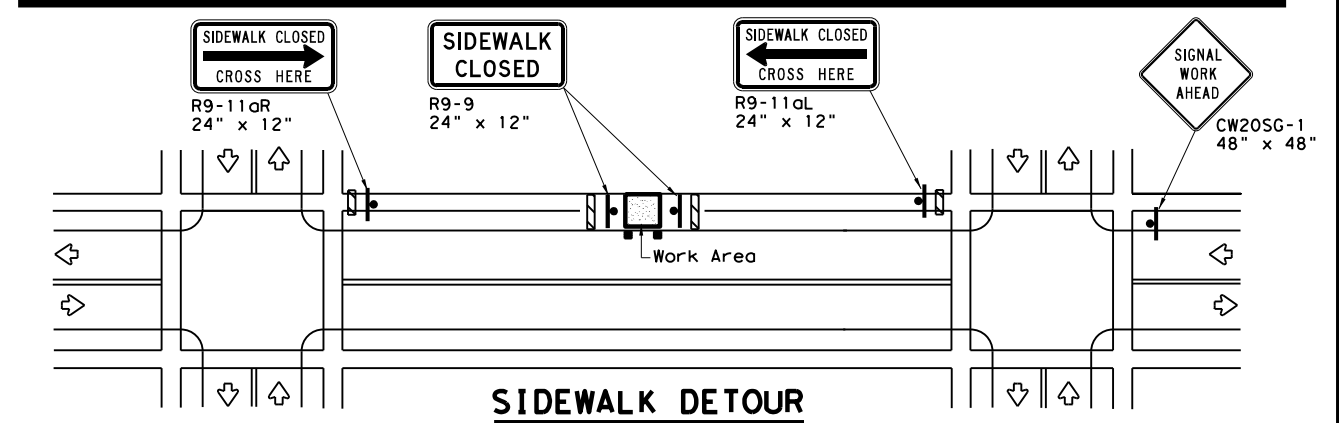
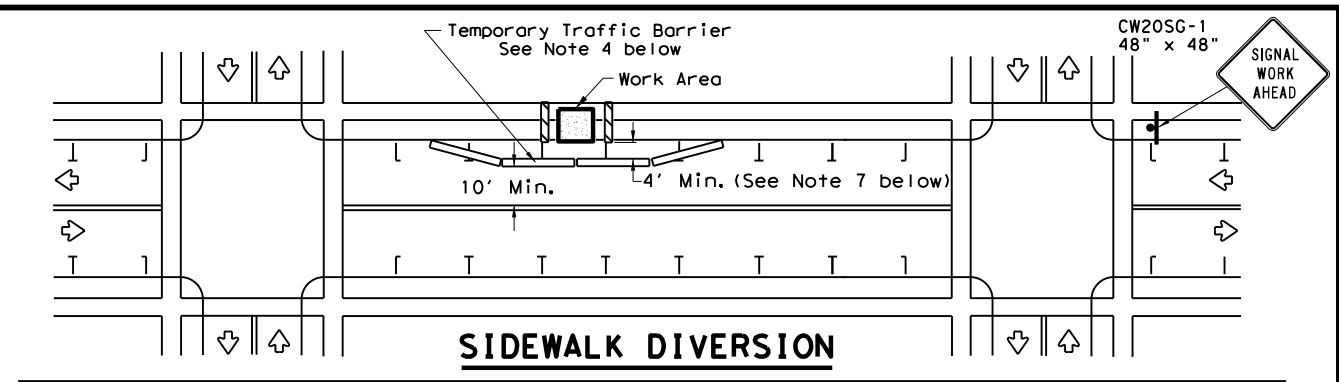
	Sign
	Channelizing Devices
	Type 3 Barricade

DEPARTMENTAL MATERIAL SPECIFICATIONS

SIGN FACE MATERIALS	DMS-8300
FLEXIBLE ROLL-UP REFLECTIVE SIGNS	DMS-8310

COLOR	USAGE	SHEETING MATERIAL
ORANGE	BACKGROUND	TYPE B _{FL} OR TYPE C _{FL} SHEETING
WHITE	BACKGROUND	TYPE A SHEETING
BLACK	LEGEND & BORDERS	ACRYLIC NON-REFLECTIVE SHEETING

Only pre-qualified products shall be used. A copy of the "Compliant Work Zone Traffic Control Devices List" (CWZTCD) describes pre-qualified products and their sources and may be found at the following web address:
http://www.txdot.gov/txdot_library/publications/construction.htm



PEDESTRIAN CONTROL

1. Holes, trenches or other hazards shall be adequately protected by covering, delineating or surrounding the hazard with orange plastic pedestrian fencing or longitudinal channelizing devices, or as directed by the Engineer.
2. "CROSSWALK CLOSURES" as detailed above will require the Engineer's approval prior to installation.
3. R9 series signs shown may be placed on supports detailed on the BC standards or CWZTCD list, or when fabricated from approved lightweight plastic substrates, they may be mounted on top of a plastic drum at or near the location shown.
4. For speeds less than 45 mph longitudinal channelizing devices may be used instead of traffic barriers when approved by the Engineer. Attenuation of blunt ends and installation of water filled devices shall be as per BC(9) and manufacturer's recommendations.
5. Location of devices are for general guidance. Actual device spacing and location must be field adjusted to meet actual conditions.
6. Where pedestrians with visual disabilities normally use the closed sidewalk Detectable Pedestrian Barricades should be used instead of the Type 3 Barricades shown.
7. The width of existing sidewalk should be maintained if practical.
8. Pavement markings for mid-block crosswalks shall be paid for under the appropriate bid items.
9. When crosswalks or other pedestrian facilities are closed or relocated, temporary facilities shall be detectable and shall include accessibility features consistent with the features present in the existing pedestrian facility.

SHEET 2 OF 2

Traffic Operations Division Standard

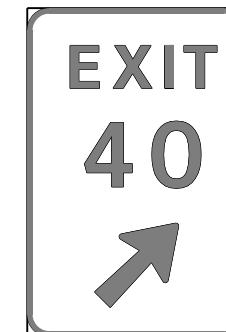
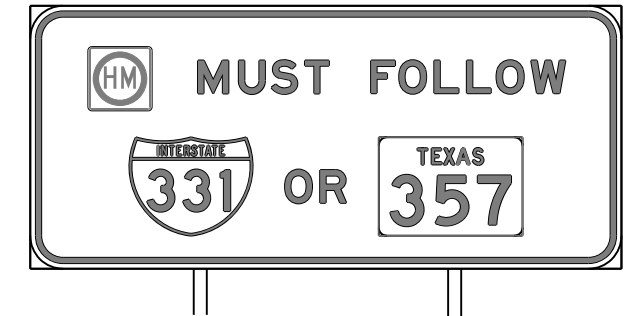
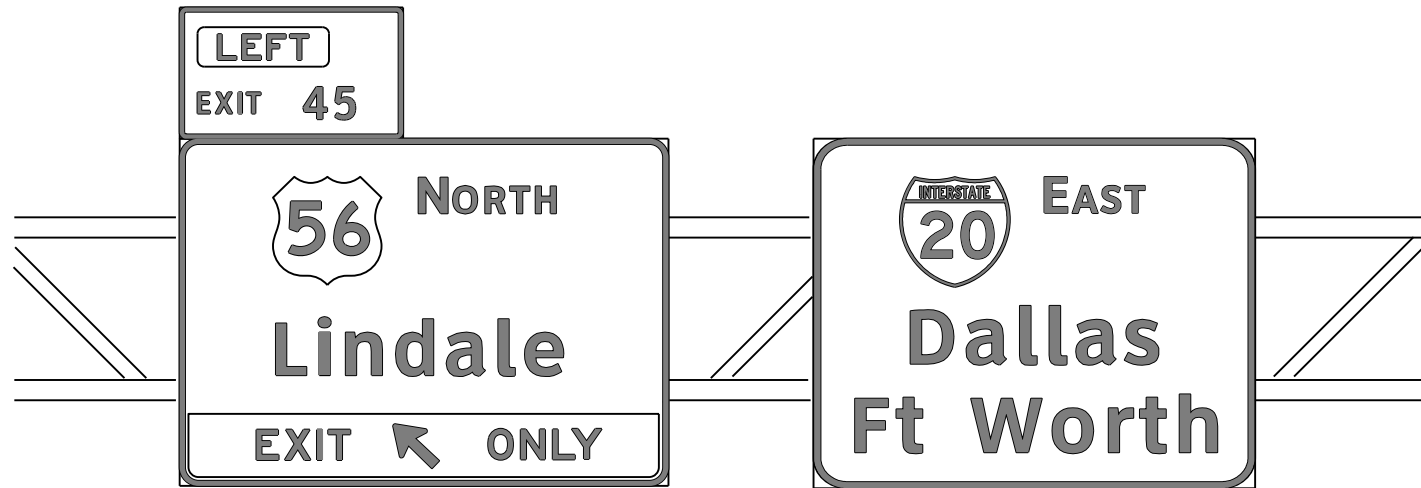
TRAFFIC SIGNAL WORK BARRICADES AND SIGNS

WZ (BTS-2) - 13

FILE: wzbts-13.dgn	DN: TxDOT	CR: TxDOT	DW: TxDOT	CK: TxDOT
© TxDOT April 1992	CONT	SECT	JOB	HIGHWAY
REVISIONS	6353	00	001	IH-2, ETC.
2-98 10-99 7-13	DIST	COUNTY	SHEET NO.	
4-98 3-03	PHARR	HIDALGO, ETC.	239	

REQUIREMENTS FOR OVERHEAD AND LARGE GROUND-MOUNTED SIGNS

TYPICAL EXAMPLES



GENERAL NOTES

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

B	CV-1W
C	CV-2W
D	CV-3W
E	CV-4W
Emod	CV-5WR
F	CV-6W

- 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.
- Black legend shall be applied by screening process or cut-out acrylic non-reflective black film to background sheeting, or combination thereof.
- White legend and borders shall be cut-out white sheeting applied to colored background sheeting.
- 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 nominal. 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 need not be trimmed or rounded if fabricated from an extruded material.
- Sign substrate for ground-mounted signs shall be any material that meets the Departmental Material Specification requirements of DMS-7110 or approved alternative. Sign substrate for overhead signs shall be any material that meets DMS-7110. Exit Number Panels attached above the parent sign shall be made with the same substrate and sheeting as the parent sign.
- Mounting details of attachments to parent sign face are shown on Standard Plan Sheet TSR(5). Mounting details of exit number panels above parent sign are shown in the "SMD series" Standard Plan Sheets.
- Background sheeting shall be applied to the substrate per sheeting manufacturer's recommendations. Sheeting will not be allowed to bridge the horizontal gap between panels.
- Cut all legend, symbols, borders, and direct applied sign attachments at panel joints.

DEPARTMENTAL MATERIAL SPECIFICATIONS

ALUMINUM SIGN BLANKS	DMS-7110
SIGN FACE MATERIALS	DMS-8300

The Standard Highway Sign Designs for Texas (SHSD) can be found at the following website.

<http://www.txdot.gov/>

SHEETING REQUIREMENTS

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

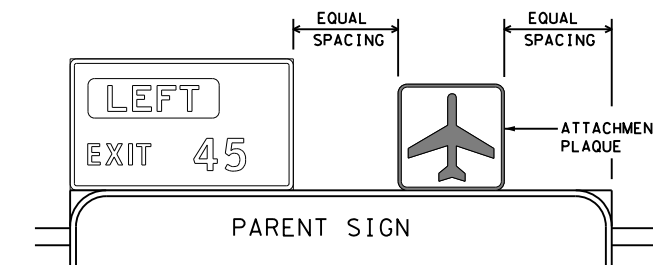
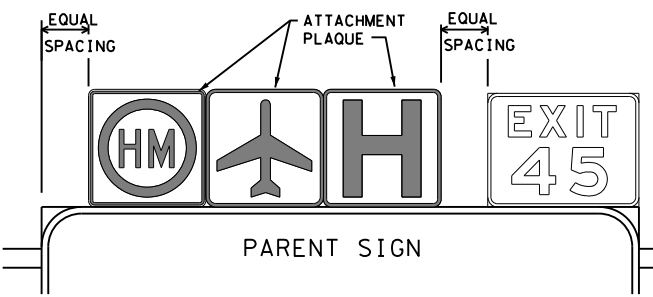
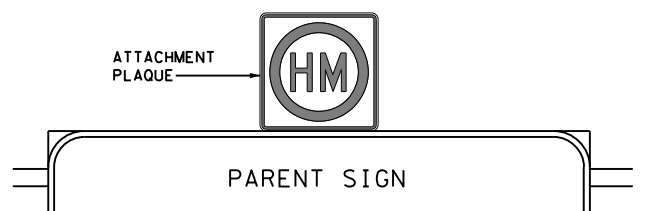
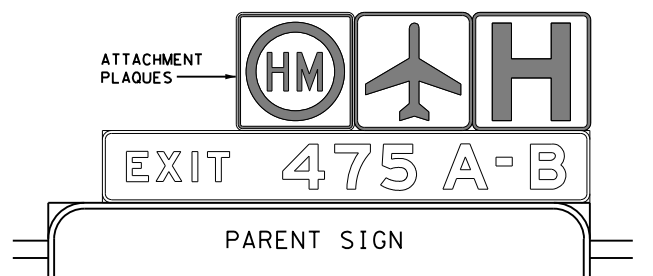
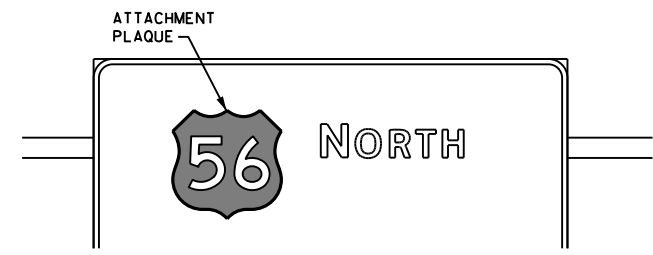
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DATE: FILE:

Texas Department of Transportation				<i>Traffic Operations Division Standard</i>	
<h2 style="margin: 0;">TYPICAL SIGN REQUIREMENTS</h2> <h3 style="margin: 0;">TSR(1) - 13</h3>					
FILE: fsr1-13.dgn	DN: TxDOT	CK: TxDOT	DW: TxDOT	CR: TxDOT	
© TxDOT October 2003	CONT	SECT	JOB	HIGHWAY	
REVISIONS	6353	00	001	1H-2, ETC.	
12-03 7-13	DIST	COUNTY	SHEET NO.		
9-08	21	HIDALGO, ETC.	240		

REQUIREMENTS FOR ATTACHMENTS TO OVERHEAD AND LARGE GROUND MOUNTED SIGNS

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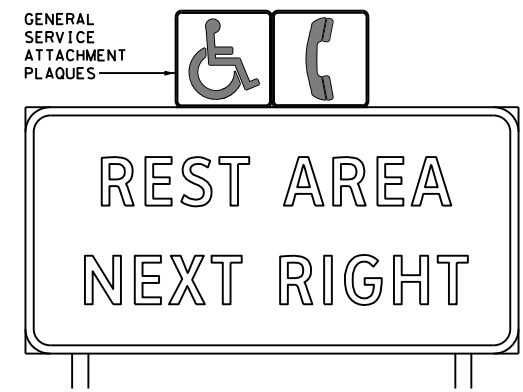
TYPICAL EXAMPLES

DEPARTMENTAL MATERIAL SPECIFICATIONS	
ALUMINUM SIGN BLANKS	DMS-7110
SIGN FACE MATERIALS	DMS-8300

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

GENERAL NOTES

- Signs to be furnished shall be as detailed elsewhere in the plans and/or as shown on sign tabulation sheet. Standard sign designs and arrow dimensions can be found in the "Standard Highway Sign Designs for Texas" (SHSD).
- Route Marker legends (ie. IH, US, SH and FM shields) shall use the Federal Highway Administration (FHWA) Standard Highway Alphabets (B, C, D, E, Emod, or F).
- 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.
- Black legend and borders shall be applied by screening process or cut-out acrylic non-reflective black film to background sheeting, or combination thereof.
- White legend and borders shall be applied by screening process with transparent colored ink, transparent colored overlay film to white background sheeting or cut-out white sheeting to colored background sheeting, or combination thereof.
- Colored legend and borders shall be applied by screening process with transparent colored ink, transparent colored overlay film or colored sheeting to white background sheeting, or combination thereof.
- Route markers and other attachments within the parent sign face shall be direct applied unless otherwise specified in the plans. Attachments not direct applied shall use 0.063 inch thick one piece sheet aluminum signs (Type A).
- General Service Plaques shall be 0.080 inch thick and Routing Plaques shall be 0.100 inch thick.
- The priority for Routing Plaques shall be (left to right) Hazardous Material, Airport then Hospital. See examples for mounting location.
- Mounting details of attachments to parent signs face are shown on Standard Plan Sheet TSR(5). Mounting details of sign plaque attachments above and below parent sign are shown in the "SMD series" Standard Plan Sheets.
- Plaques shall be horizontally centered at the top of the parent sign. If an exit number panel exists, the plaque shall be centered between the edge of the parent sign and the edge of the exit number panel. The plaque may be placed above the exit number panel when there is insufficient space.



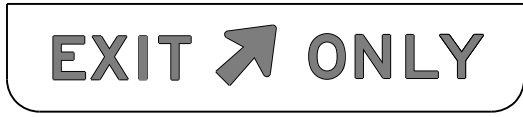
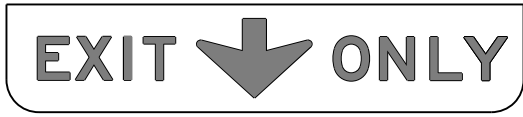
REQUIREMENTS FOR EXIT ONLY AND LEFT EXIT PANELS

DEPARTMENTAL MATERIAL SPECIFICATIONS	
ALUMINUM SIGN BLANKS	DMS-7110
SIGN FACE MATERIALS	DMS-8300

SHEETING REQUIREMENTS FOR OVERHEAD EXIT PANELS		
USAGE	COLOR	SIGN FACE MATERIAL
BACKGROUND	FLUORESCENT YELLOW	TYPE B _{FL} OR C _{FL} SHEETING
LEGEND	BLACK	ACRYLIC NON-REFLECTIVE FILM

GENERAL NOTES

- Signs to be furnished shall be as detailed elsewhere in the plans and/or as shown on sign tabulation sheet. Standard sign designs and arrow dimensions can be found in the "Standard Highway Sign Designs for Texas" (SHSD). Individual panel sizes shown in the plans may be adjusted to fit actual parent sign sizes if necessary.
- Exit Panel legend shall use the Federal Highway Administration (FHWA) Standard Highway Alphabets E Series.
- 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.
- Black legend shall be applied by screening process or cut-out acrylic non-reflective black film to yellow background sheeting, or combination thereof.
- Exit Only and Left Exit panels within the parent sign face shall be direct applied unless otherwise specified in the plans. Panels not direct applied shall use 0.063 inch thick one piece sheet aluminum signs (Type A).
- Mounting details of Exit Only and Left Exit panel attachments to parent signs face are shown on Standard Plan Sheet TSR(5).



TYPICAL EXAMPLES

The Standard Highway Sign Designs for Texas (SHSD) can be found at the following website:
<http://www.txdot.gov/>

TYPICAL SIGN REQUIREMENTS

TSR(2) - 13

FILE: tsr2-13.dgn	DN: TxDOT	CK: TxDOT	OW: TxDOT	CK: TxDOT
©TxDOT October 2003	CONT	SECT	JOB	HIGHWAY
REVISIONS	6353	00	001	IH-2, ETC.
12-03 7-13	DIST	COUNTY	SHEET NO.	
9-08	21	HIDALGO, ETC.	241	

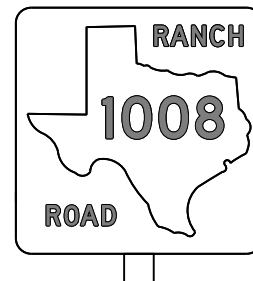
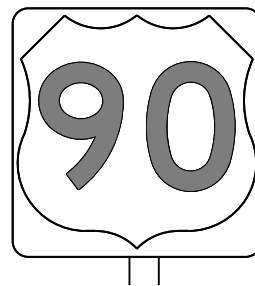
DATE:
FILE:

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REQUIREMENTS FOR INDEPENDENT MOUNTED ROUTE SIGNS

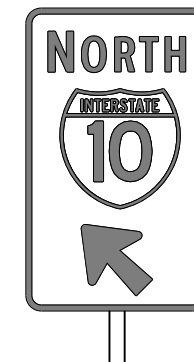
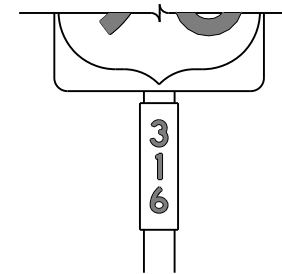
SHEETING REQUIREMENTS		
USAGE	COLOR	SIGN FACE MATERIAL
BACKGROUND	WHITE	TYPE A SHEETING
BACKGROUND	ALL OTHERS	TYPE B OR C SHEETING
LEGEND & BORDERS	WHITE	TYPE A SHEETING
LEGEND & BORDERS	BLACK	ACRYLIC NON-REFLECTIVE FILM
LEGEND & BORDERS	ALL OTHERS	TYPE B or C SHEETING



TYPICAL EXAMPLES

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



TYPICAL EXAMPLES

GENERAL NOTES

- Signs to be furnished shall be as detailed elsewhere in the plans and/or as shown on sign tabulation sheet. Standard sign designs and arrow dimensions can be found in the "Standard Highway Sign Designs for Texas" (SHSD).
- 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.

B	CV-1W
C	CV-2W
D	CV-3W
E	CV-4W
Emod	CV-5WR
F	CV-6W

- 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).
- 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.
- 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.
- 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 nominal. 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.
- Mounting details of roadside signs are shown in the "SMD series" Standard Plan Sheets.

DEPARTMENTAL MATERIAL SPECIFICATIONS	
ALUMINUM SIGN BLANKS	DMS-7110
SIGN FACE MATERIALS	DMS-8300

ALUMINUM SIGN BLANKS THICKNESS	
Square Feet	Minimum Thickness
Less than 7.5	0.080
7.5 to 15	0.100
Greater than 15	0.125

The Standard Highway Sign Designs for Texas (SHSD) can be found at the following website:
<http://www.txdot.gov/>

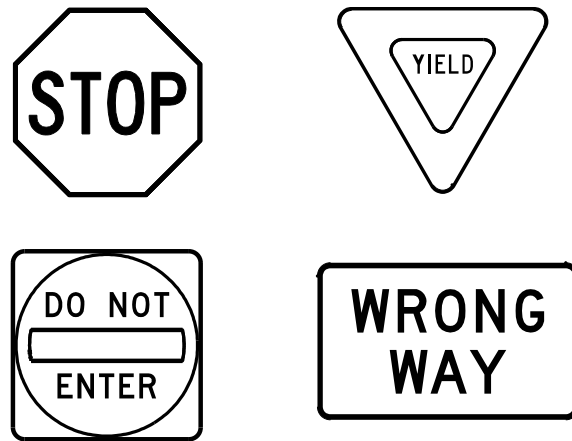
		<i>Traffic Operations Division Standard</i>
<h1 style="margin: 0;">TYPICAL SIGN REQUIREMENTS</h1> <h2 style="margin: 0;">TSR(3) - 13</h2>		
FILE: tsr3-13.dgn	DN: TxDOT	CK: TxDOT
© TxDOT October 2003	CONT SECT	JOB HIGHWAY
REVISIONS	6353 00	001 IH-2, ETC.
12-03 7-13	DIST	COUNTY SHEET NO.
9-08	21	HIDALGO, ETC. 242

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DATE: FILE:

REQUIREMENTS FOR RED BACKGROUND REGULATORY SIGNS

(STOP, YIELD, DO NOT ENTER AND WRONG WAY SIGNS)



REQUIREMENTS FOR FOUR SPECIFIC SIGNS ONLY

SHEETING REQUIREMENTS		
USAGE	COLOR	SIGN FACE MATERIAL
BACKGROUND	RED	TYPE B OR C SHEETING
BACKGROUND	WHITE	TYPE B OR C SHEETING
LEGEND & BORDERS	WHITE	TYPE B OR C SHEETING
LEGEND	RED	TYPE B OR C SHEETING

REQUIREMENTS FOR WHITE BACKGROUND REGULATORY SIGNS

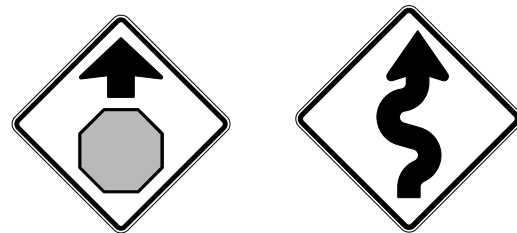
(EXCLUDING STOP, YIELD, DO NOT ENTER AND WRONG WAY SIGNS)



TYPICAL EXAMPLES

SHEETING REQUIREMENTS		
USAGE	COLOR	SIGN FACE MATERIAL
BACKGROUND	WHITE	TYPE A SHEETING
BACKGROUND	ALL OTHERS	TYPE B OR C SHEETING
LEGEND, BORDERS AND SYMBOLS	BLACK	ACRYLIC NON-REFLECTIVE FILM
LEGEND, BORDERS AND SYMBOLS	ALL OTHER	TYPE B OR C SHEETING

REQUIREMENTS FOR WARNING SIGNS



TYPICAL EXAMPLES

SHEETING REQUIREMENTS		
USAGE	COLOR	SIGN FACE MATERIAL
BACKGROUND	FLOURESCENT YELLOW	TYPE B _{FL} OR C _{FL} SHEETING
LEGEND & BORDERS	BLACK	ACRYLIC NON-REFLECTIVE FILM
LEGEND & SYMBOLS	ALL OTHER	TYPE B OR C SHEETING

REQUIREMENTS FOR SCHOOL SIGNS



TYPICAL EXAMPLES

SHEETING REQUIREMENTS		
USAGE	COLOR	SIGN FACE MATERIAL
BACKGROUND	WHITE	TYPE A SHEETING
BACKGROUND	FLOURESCENT YELLOW GREEN	TYPE B _{FL} OR C _{FL} SHEETING
LEGEND, BORDERS AND SYMBOLS	BLACK	ACRYLIC NON-REFLECTIVE FILM
SYMBOLS	RED	TYPE B OR C SHEETING

GENERAL NOTES

- Signs to be furnished shall be as detailed elsewhere in the plans and/or as shown on sign tabulation sheet. Standard sign designs and arrow dimensions can be found in the "Standard Highway Sign Designs for Texas" (SHSD).
- Sign legend shall use the Federal Highway Administration (FHWA) Standard Highway Alphabets (B, C, D, E, Emod or F).
- 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.
- Black legend and borders shall be applied by screening process or cut-out acrylic non-reflective black film to background sheeting, or combination thereof.
- White legend and borders shall be applied by screening process with transparent colored ink, transparent colored overlay film to white background sheeting or cut-out white sheeting to colored background sheeting, or combination thereof.
- Colored legend shall be applied by screening process with transparent colored ink, transparent colored overlay film or colored sheeting to background sheeting, or combination thereof.
- Sign substrate shall be any material that meets the Departmental Material Specification requirements of DMS-7110 or approved alternative.
- Mounting details for roadside mounted signs are shown in the "SMD series" Standard Plan Sheets.

ALUMINUM SIGN BLANKS THICKNESS

Square Feet	Minimum Thickness
Less than 7.5	0.080
7.5 to 15	0.100
Greater than 15	0.125

DEPARTMENTAL MATERIAL SPECIFICATIONS

ALUMINUM SIGN BLANKS	DMS-7110
SIGN FACE MATERIALS	DMS-8300

The Standard Highway Sign Designs for Texas (SHSD) can be found at the following website.

<http://www.txdot.gov/>



TYPICAL SIGN REQUIREMENTS

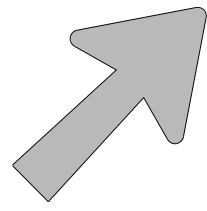
TSR(4) - 13

FILE:	tsr4-13.dgn	DN:	TxDOT	CK:	TxDOT	DW:	TxDOT	CK:	TxDOT
© TxDOT	October 2003	CONT	SECT	JOB	HIGHWAY				
REVISIONS		6353	00	001	IH-2, ETC.				
12-03	7-13	DIST	COUNTY	SHEET NO.					
9-08		21	HIDALGO, ETC.	243					

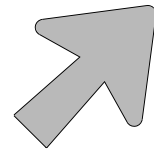
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ARROW DETAILS

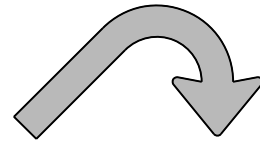
for Large Ground-Mounted and Overhead Guide Signs



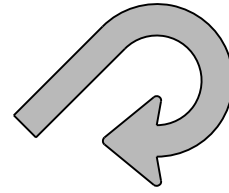
Type A



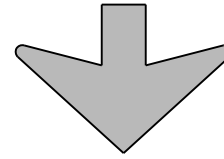
Type B



E-3



E-4



Down Arrow

TYPE	LETTER SIZE	USE
A-1	10.67" U/L and 10" Caps	Single Lane Exits
A-2	13.33" U/L and 12" Caps	
A-3	16" & 20" U/L	
B-1	10.67" U/L and 10" Caps	Multiple Lane Exits
B-2	13.33" U/L and 12" Caps	
B-3	16" & 20" U/L	

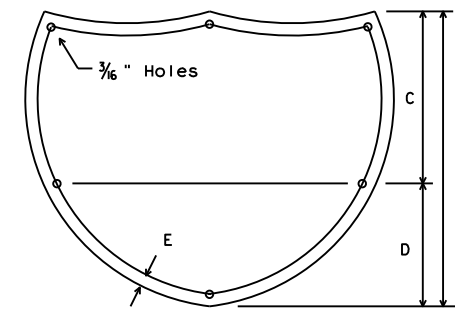
CODE	USED ON SIGN NO.
E-3	E5-1aT
E-4	E5-1bT

NOTE

Arrow dimensions are shown in the "Standard Highway Sign Designs for Texas" manual.

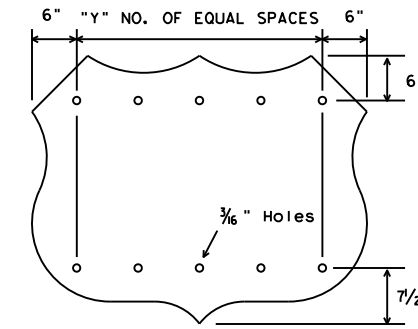
The Standard Highway Sign Designs for Texas (SHSD) can be found at the following website:
<http://www.txdot.gov/>

SIGN BLANK PUNCHING DETAILS FOR ATTACHMENTS WHEN SPECIFIED TO BE TYPE A ALUMINUM SIGNS (FOR MOUNTING TO GUIDE SIGN FACE)



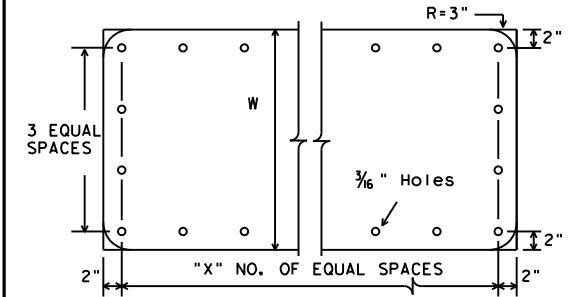
INTERSTATE ROUTE MARKERS

A	C	D	E
36	21	15	1 1/2
48	28	20	1 3/4



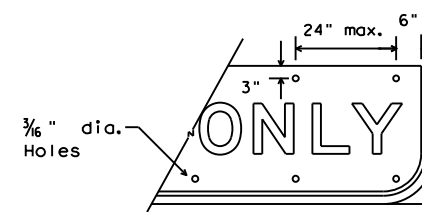
U.S. ROUTE MARKERS

Sign Size	"Y"
24x24	2
30x24	3
36x36	3
45x36	4
48x48	4
60x48	5



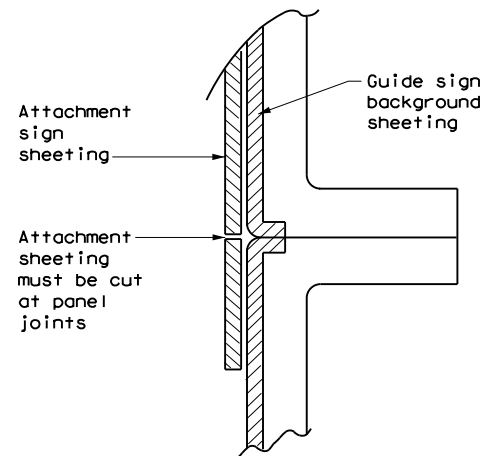
STATE ROUTE MARKERS

No. of Digits	W	X
4	24	4
4	36	5
4	48	6
3	24	3
3	36	4
3	48	5



EXIT ONLY PANEL

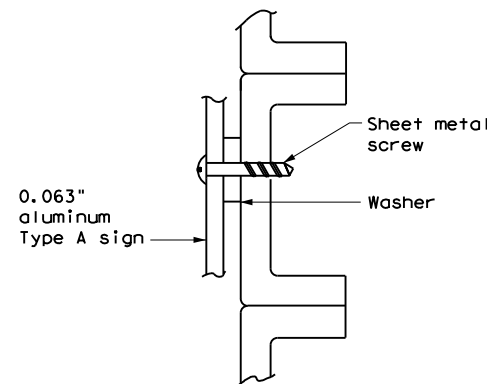
MOUNTING DETAILS OF ATTACHMENTS TO GUIDE SIGN FACE ("EXIT ONLY" AND "LEFT EXIT" PANELS, ROUTE MARKERS AND OTHER ATTACHMENTS)



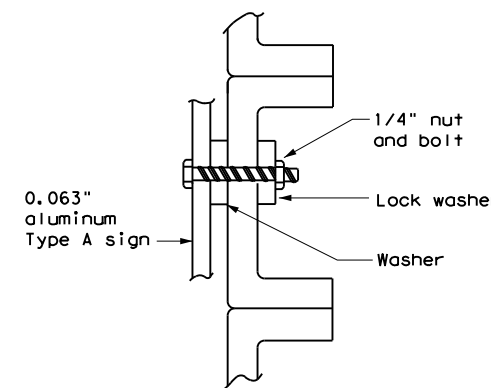
DIRECT APPLIED ATTACHMENT

NOTE:

- Sheeting for legend, symbols, and borders must be cut at panel joints.
- Direct applied attachment signs will be subsidiary to "Aluminum Signs" or "Fiberglass Signs".



SCREW ATTACHMENT

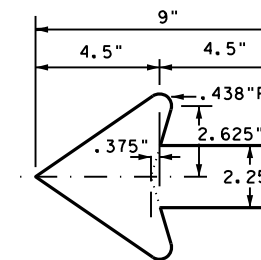


NUT/BOLT ATTACHMENT

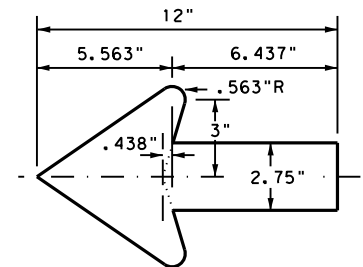
NOTE:

Furnish Type A aluminum sign attachments only when specified in the plans. These signs will be paid for under "Aluminum Signs".

ARROW DETAILS for Destination Signs (Type D)



Standard arrow to be used with 6 inch letters.



Standard arrow to be used with 8 inch letters.



TYPICAL SIGN REQUIREMENTS

TSR (5) - 13

FILE: tsr5-13.dgn	DN: TxDOT	CK: TxDOT	DW: TxDOT	CK: TxDOT
© TxDOT October 2003	CONT	SECT	JOB	HIGHWAY
REVISIONS	6353 00	001	00	IH-2, ETC.
12-03 7-13	DIST	COUNTY	SHEET NO.	
9-08	21	HIDALGO, ETC.	244	

DATE:
FILE:

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SIGN SUPPORT DESCRIPTIVE CODES

(Descriptive Codes correspond to project estimate and quantities sheets)

SM RD SGN ASSM TY XXXXX(X)XX(X-XXXX)

Post Type

FRP = Fiberglass Reinforced Plastic Pipe (see SMD(FRP))
 TWT = Thin-Walled Tubing (see SMD(TWT))
 10BWG = 10 BWG Tubing (see SMD(SLIP-1) to (SLIP-3))
 S80 = Schedule 80 Pipe (see SMD(SLIP-1) to (SLIP-3))

Number of Posts (1 or 2)

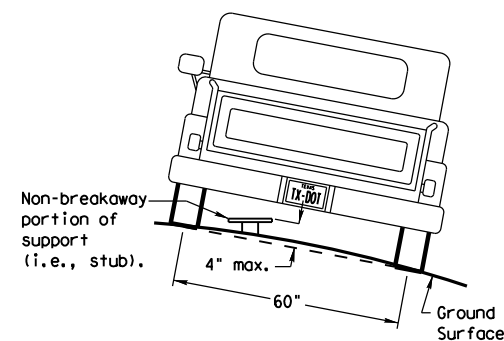
Anchor Type

UA = Universal Anchor - Concreted (see SMD(FRP) and (TWT))
 UB = Universal Anchor - Bolted down (see SMD(FRP) and (TWT))
 WS = Wedge Anchor Steel - (see SMD(TWT))
 WP = Wedge Anchor Plastic (see SMD(TWT))
 SA = Slipbase - Concreted (see SMD(SLIP-1) to (SLIP-3))
 SB = Slipbase - Bolted Down (see SMD(SLIP-1) to (SLIP-3))

Sign Mounting Designation

P = Prefab. "Plain" (see SMD(SLIP-1) to (SLIP-3), (TWT), (FRP))
 T = Prefab. "T" (see SMD(SLIP-1) to (SLIP-3), (TWT))
 U = Prefab. "U" (see SMD(SLIP-1) to (SLIP-3))
 IF REQUIRED
 1EXT or 2EXT = Number of Extensions (see SMD(SLIP-1) to (SLIP-3), (TWT))
 BM = Extruded Wind Beam (see SMD(SLIP-1) to (SLIP-3))
 WC = 1.12 #/ft Wing Channel (see SMD(SLIP-1) to (SLIP-3))
 EXAL = Extruded Aluminum Sign Panels (see SMD(SLIP-3))

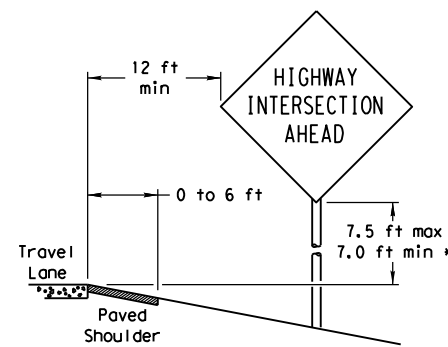
REQUIRED CLEARANCE FOR BREAKAWAY SUPPORT



To avoid vehicle undercarriage snagging, any substantial remains of a breakaway support, when it is broken away, should not project more than 4 inches above a 60-inch chord (i.e., typical space between wheel paths).

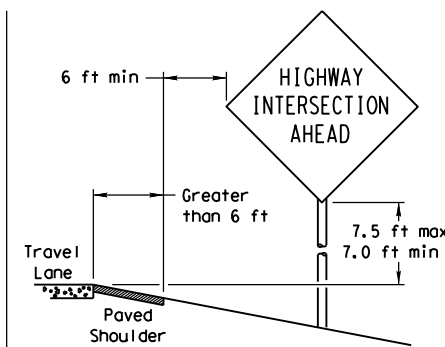
SIGN LOCATION

PAVED SHOULDERS



LESS THAN 6 FT. WIDE

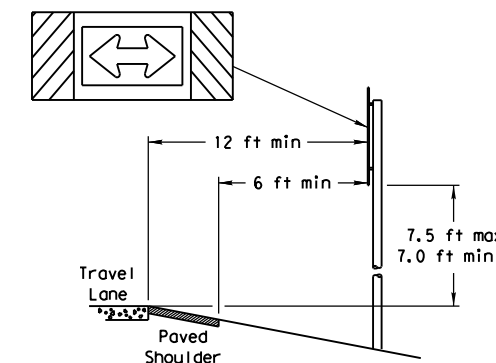
When the shoulder is 6 ft. or less in width, the sign must be placed at least 12 ft. from the edge of the travel lane.



GREATER THAN 6 FT. WIDE

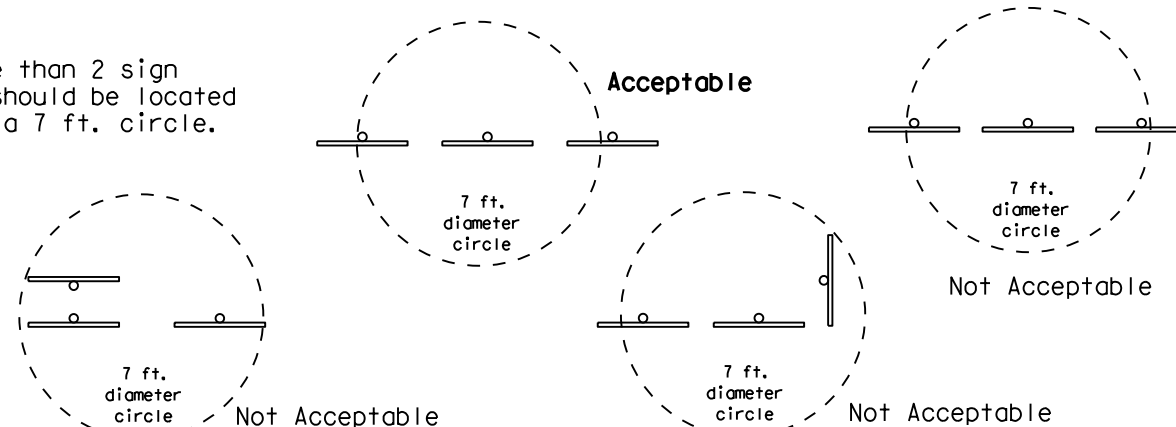
When the shoulder is greater than 6 ft in width, the sign must be placed at least 6 ft. from the edge of the shoulder.

T-INTERSECTION

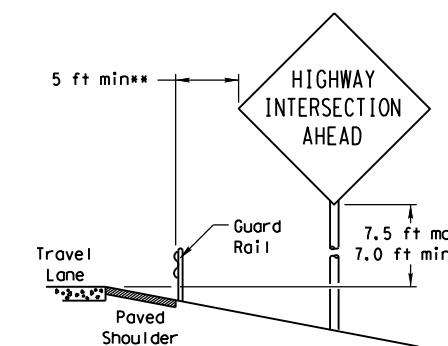


When this sign is needed at the end of a two-lane, two way roadway, the right edge of the sign should be in line with the centerline of the roadway. Place as close to ROW as practical.

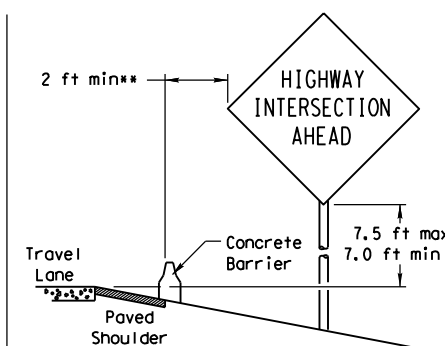
No more than 2 sign posts should be located within a 7 ft. circle.



BEHIND BARRIER



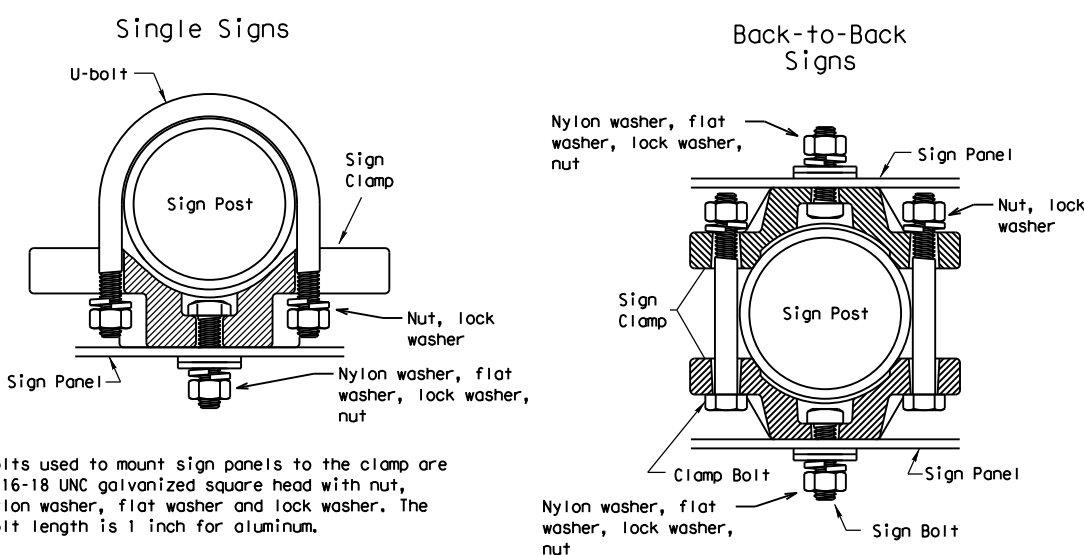
BEHIND GUARDRAIL



BEHIND CONCRETE BARRIER

**Sign clearance based on distance required for proper guard rail or concrete barrier performance.

TYPICAL SIGN ATTACHMENT DETAIL



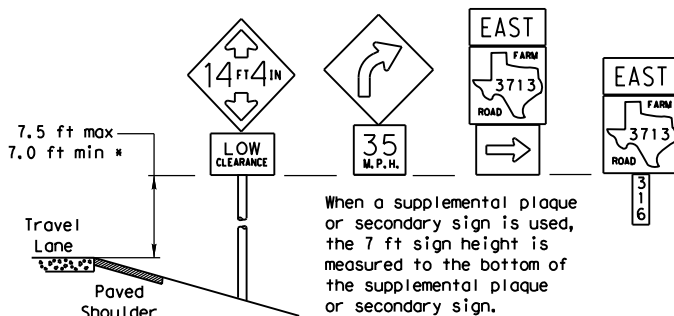
Bolts used to mount sign panels to the clamp are 5/16-18 UNC galvanized square head with nut, nylon washer, flat washer and lock washer. The bolt length is 1 inch for aluminum.

When two sign clamps are used to mount signs back-to-back, use a 5/16-18 UNC galvanized hex head per ASTM A307 with nut and helical-spring lock washer. The approximate bolt lengths for various post sizes and sign clamp types are given in the table at right. The bolt length may need to be adjusted depending upon field conditions.

Sign clamps may be either the specific size clamp or the universal clamp.

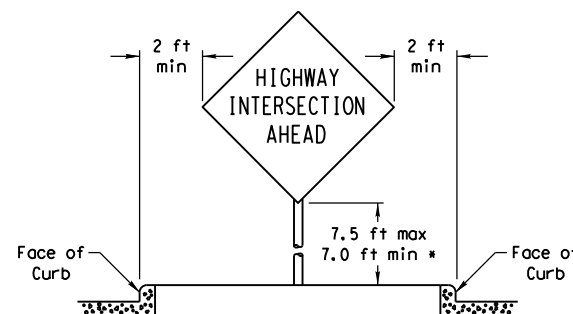
Pipe Diameter	Approximate Bolt Length	
	Specific Clamp	Universal Clamp
2" nominal	3"	3 or 3 1/2"
2 1/2" nominal	3 or 3 1/2"	3 1/2 or 4"
3" nominal	3 1/2 or 4"	4 1/2"

SIGNS WITH PLAQUES

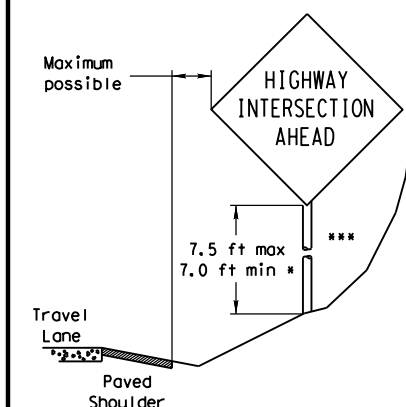


When a supplemental plaque or secondary sign is used, the 7 ft sign height is measured to the bottom of the supplemental plaque or secondary sign.

CURB & GUTTER OR RAISED ISLAND



RESTRICTED RIGHT-OF-WAY (When 6 ft min. is not possible.)



Right-of-way restrictions may be created by rocks, water, vegetation, forest, buildings, a narrow island, or other factors.

In situations where a lateral restriction prevents the minimum horizontal clearance from the edge of the travel lane, signs should be placed as far from the travel lane as practical.

*** Post may be shorter if protected by guardrail or if Engineer determines the post could not be hit due to extreme slope.

* Signs shall be mounted using the following condition that results in the greatest sign elevation:

- (1) a minimum of 7 to a maximum of 7.5 feet above the edge of the travel lane or
- (2) a minimum of 7 to a maximum of 7.5 feet above the grade at the base of the support when sign is installed on the backslope.

The maximum values may be increased when directed by the Engineer.

See the Traffic Operations Division website for detailed drawings of sign clamps, Triangular Slipbase System components and Wedge Anchor System components.

The website address is:
<http://www.txdot.gov/publications/traffic.htm>

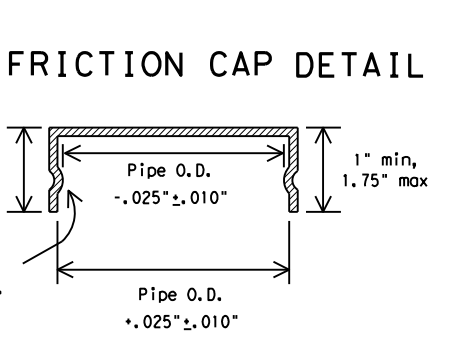
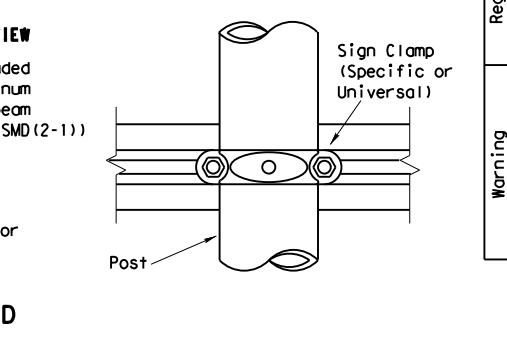
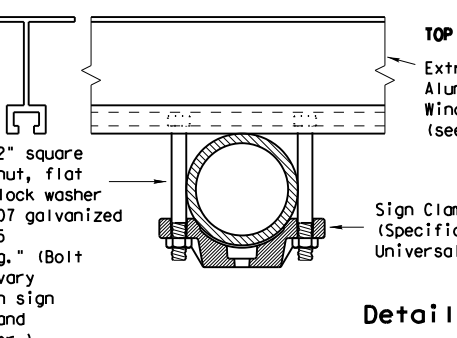
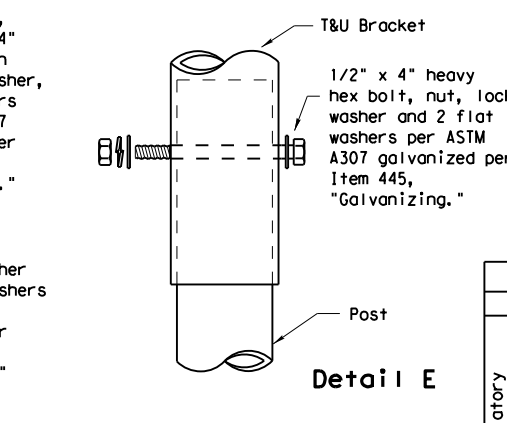
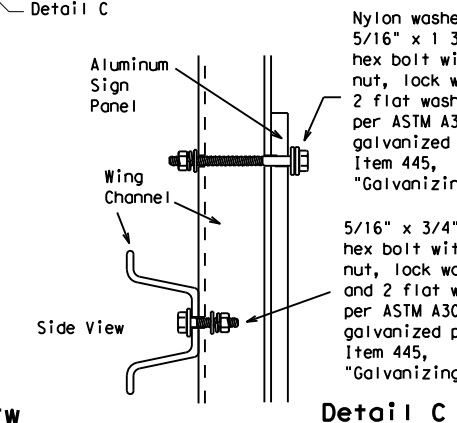
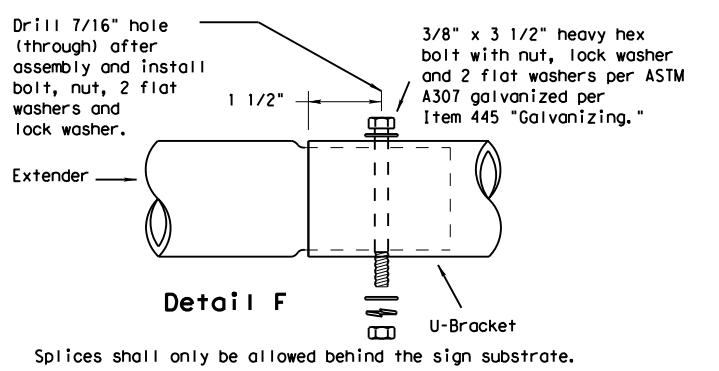
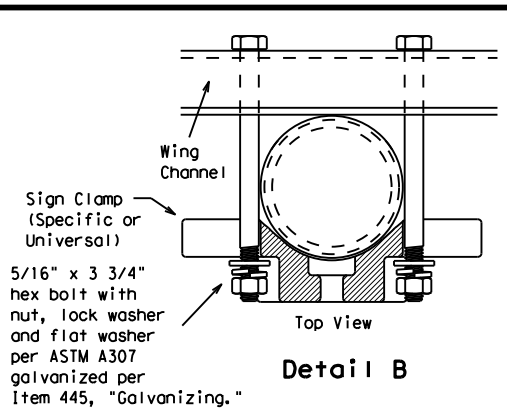
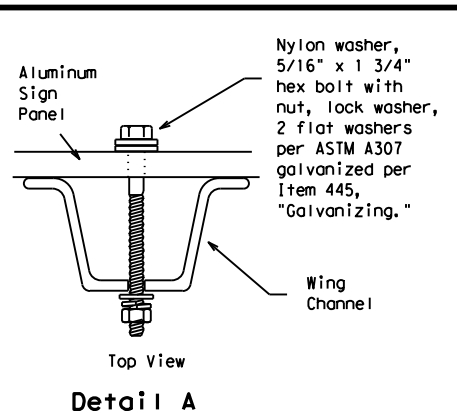
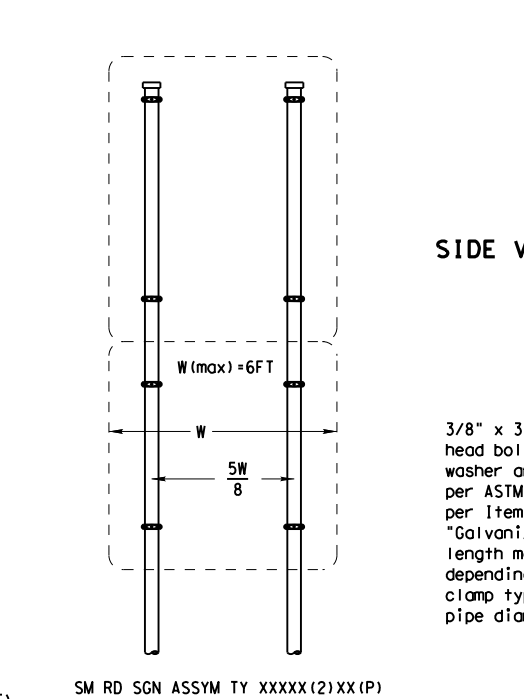
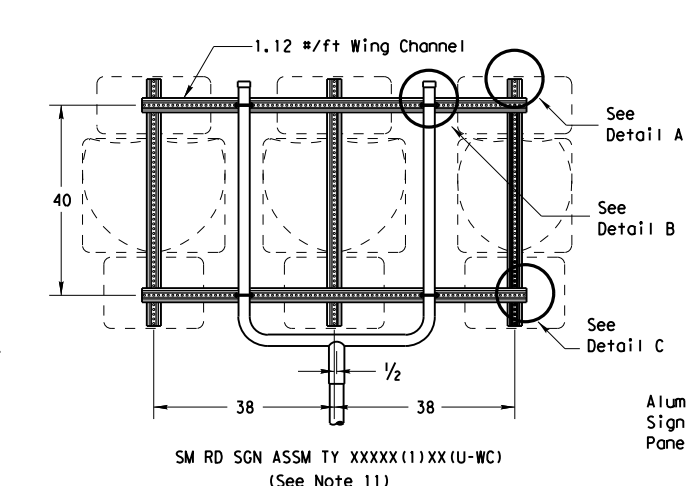
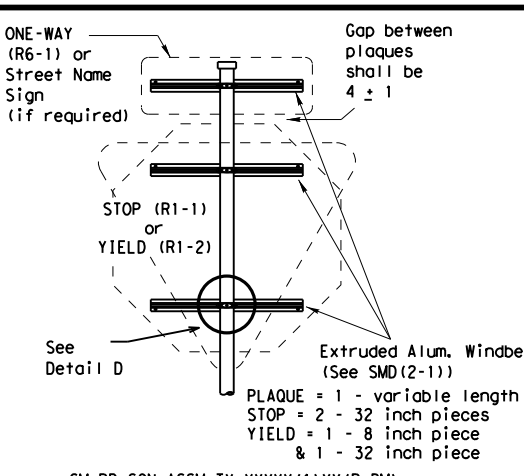
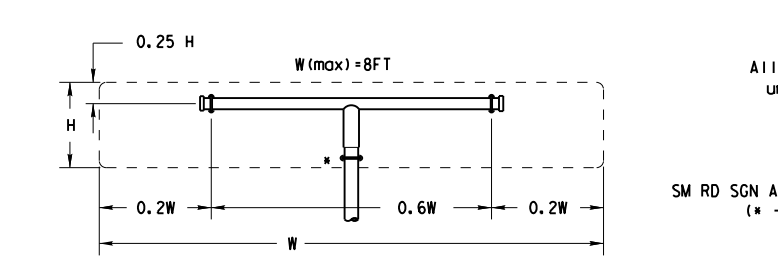
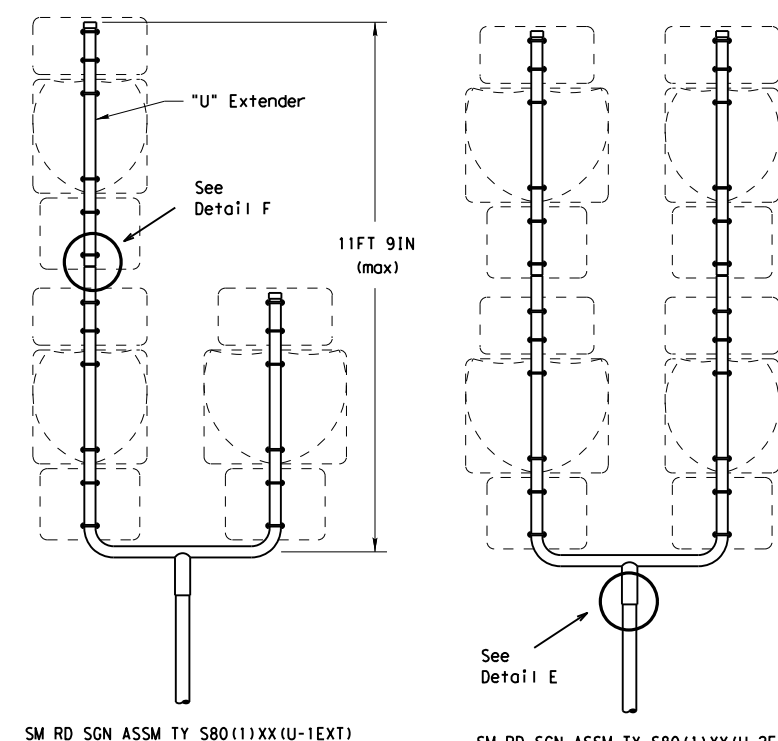
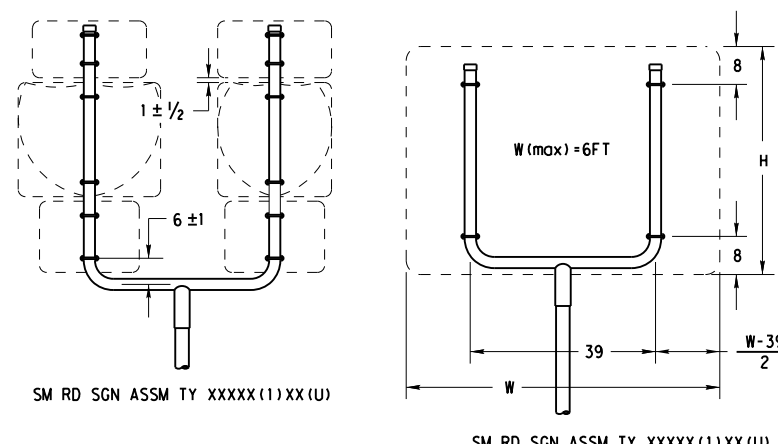
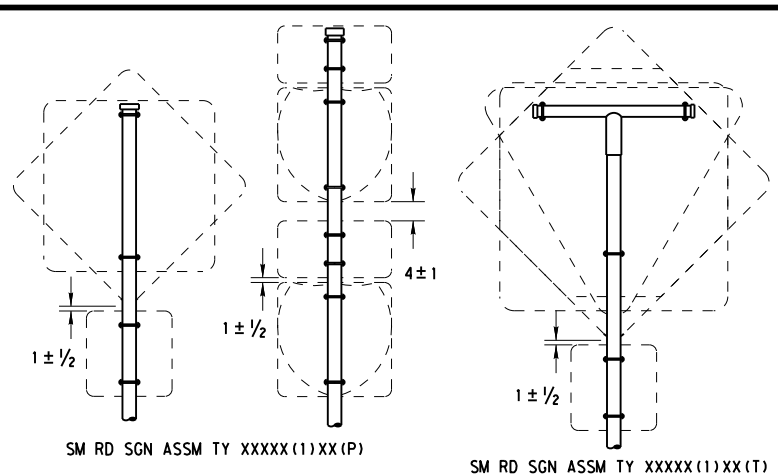
Texas Department of Transportation
 Traffic Operations Division

SIGN MOUNTING DETAILS SMALL ROADSIDE SIGNS GENERAL NOTES & DETAILS

SMD(GEN)-08

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9-08	REVISIONS	CONT	SECT	JOB	HIGHWAY
		6353	00	001	IH-2, ETC.
		DIST	COUNTY		SHEET NO.
		21	Hidalgo, ETC.		245

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GENERAL NOTES:

SIGN SUPPORT	# OF POSTS	MAX. SIGN AREA
10 BWG	1	16 SF
10 BWG	2	32 SF
Sch 80	1	32 SF
Sch 80	2	64 SF

- The Engineer may require that a Schedule 80 post be used in place of a 10 BWG where a sign height is abnormally high due to a fill slope.
- Sign supports shall not be spliced except where shown. Sign support posts shall not be spliced.
- Aluminum sign blanks shall conform to Departmental Material Specifications DMS-7110 and shall have the following minimum thicknesses: 0.080 for signs less than 7.5 sq. ft., 0.100 for signs 7.5 to 15 sq. ft., and 0.125 for signs greater than 15 sq. ft.
- Signs that require specific supports due to reasons in addition to windloading are indicated on the "REQUIRED SUPPORT" table on this sheet.
- For horizontal rectangular signs fabricated from flat aluminum, T-brackets are used for signs 24 inches or less in height. U-brackets are used for signs of greater height.
- When two triangular slipbase supports are used to support a single sign, they shall not be "rigidly" connected to each other except through the sign panel. This will allow each support to act independently when impacted by an errant vehicle.
- Wing channel shall meet ASTM A 1011 SS Gr 50 and be galvanized per ASTM A 123.
- Excess pipe, wing channel, or windbeam shall be cut off so that it does not extend beyond the sign panel (i.e., excess support shall not be visible when the sign is viewed from the front.) Repair galvanized coating at cut support ends per Item 445, "Galvanizing."
- Additional route markers may be added vertically, provided the total sign area does not exceed the maximum allowable amount per Note 1.
- Additional sign clamp required on the "T-bracket" post for 24 inch height signs. Place the clamp 3 inches above bottom of sign when possible.
- Post open ends shall be fitted with Friction Caps.
- Sign blanks shall be the sizes and shapes shown on the plans.

	REQUIRED SUPPORT	
	SIGN DESCRIPTION	SUPPORT
Regulatory	48-inch STOP sign (R1-1)	TY 10BWG(1)XX(T) TY 10BWG(1)XX(P-BM)
	60-inch YIELD sign (R1-2)	TY 10BWG(1)XX(T) TY 10BWG(1)XX(P-BM)
	48x16-inch ONE-WAY sign (R6-1)	TY 10BWG(1)XX(T) TY 10BWG(1)XX(P-BM)
	36x48, 48x36, and 48x48-inch signs	TY 10BWG(1)XX(T)
Warning	48x60-inch signs	TY S80(1)XX(T)
	48x48-inch signs (diamond or square)	TY 10BWG(1)XX(T)
	48x60-inch signs	TY S80(1)XX(T)
	48-inch Advance School X-ing sign (S1-1)	TY 10BWG(1)XX(T)
	48-inch School X-ing sign (S2-1)	TY 10BWG(1)XX(T)
	Large Arrow sign (W1-6 & W1-7)	TY 10BWG(1)XX(T)

Friction caps may be manufactured from hot rolled or cold rolled steel sheets. The minimum sheet metal thickness shall be 24 gauge for all cap sizes. The rim edges shall be reasonably straight and smooth. Caps shall be sized and formed in such a manner as to produce a drive-on friction fit and have no tendency to rock when seated on the pipe. The depth shall be sufficient to give positive protection against entrance of rainwater. They shall be free of sharp creases or indentations and show no evidence of metal fracture. Caps shall have an electrodeposited coating of zinc in accordance with the requirements of ASTM B633 Class FE/ZN 8.



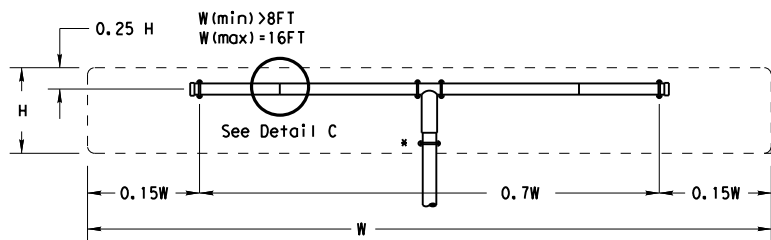
**SIGN MOUNTING DETAILS
SMALL ROADSIDE SIGNS
TRIANGULAR SLIPBASE SYSTEM
SMD(SLIP-2)-08**

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		DIST	COUNTY	SHEET NO.	
		21	HIDALGO, ETC.	247	

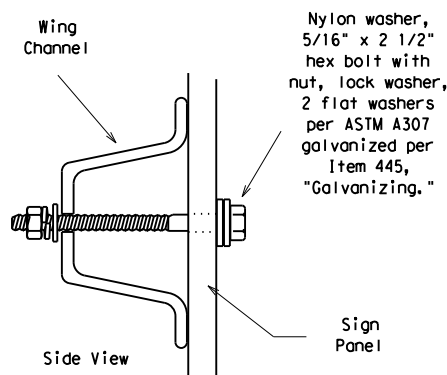
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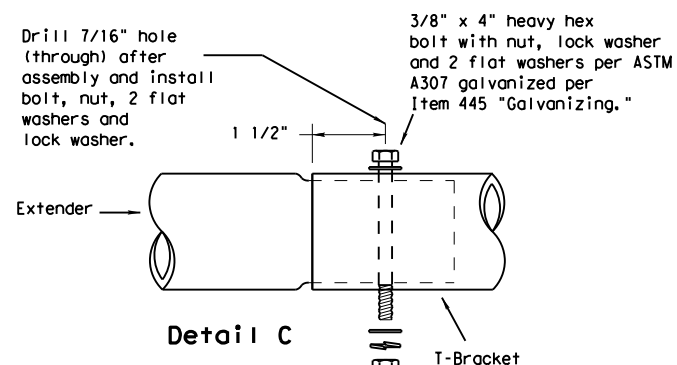
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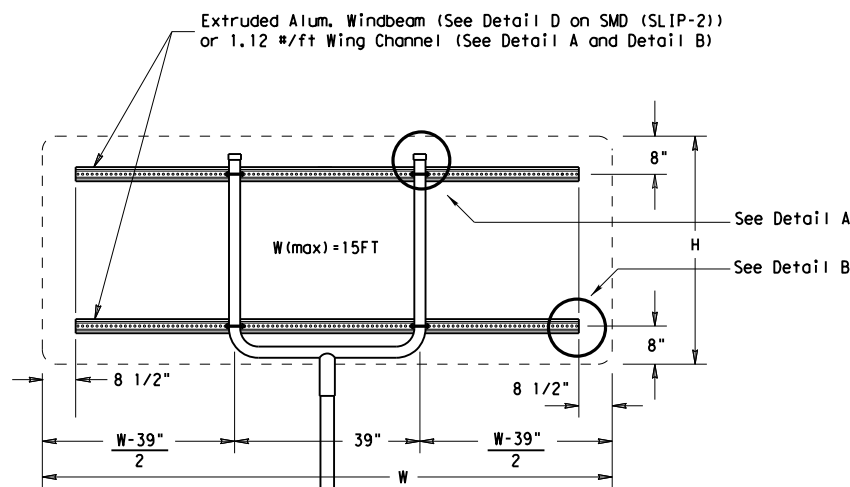
SM RD SGN ASSM TY XXXX(1)XX(T-2EXT)
(* - See Note 12)



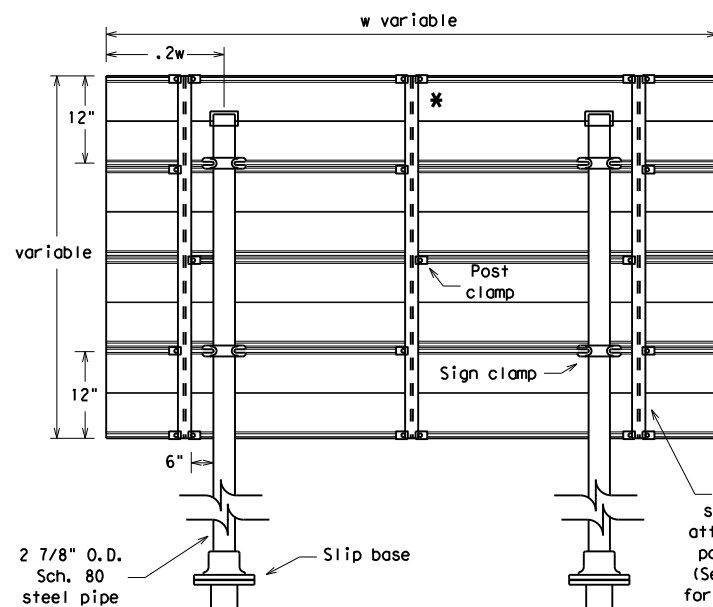
Detail B



Splices shall only be allowed behind the sign substrate.



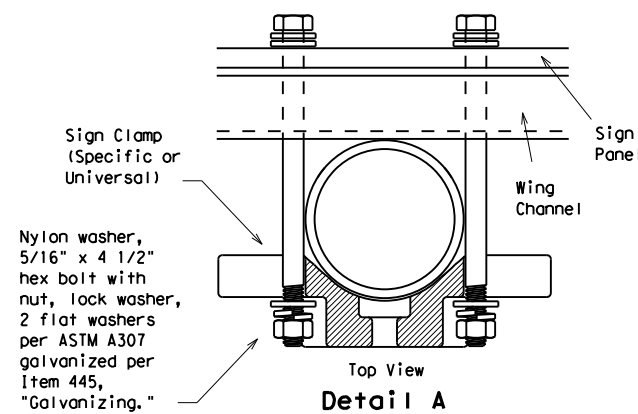
SM RD SGN ASSM TY XXXX(1)XX(U-XX)



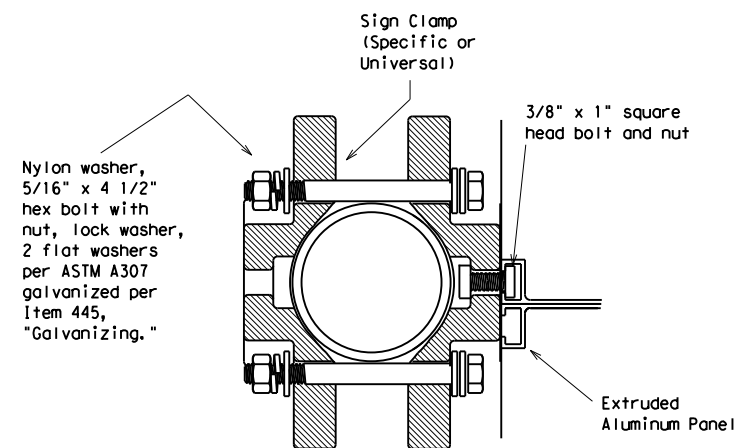
Typical Sign Mount

SM RD SGN ASSM TY S80(2)XX(IP-EXAL)

* Additional stiffener placed at approximate center of signs when sign width is greater than 10'.

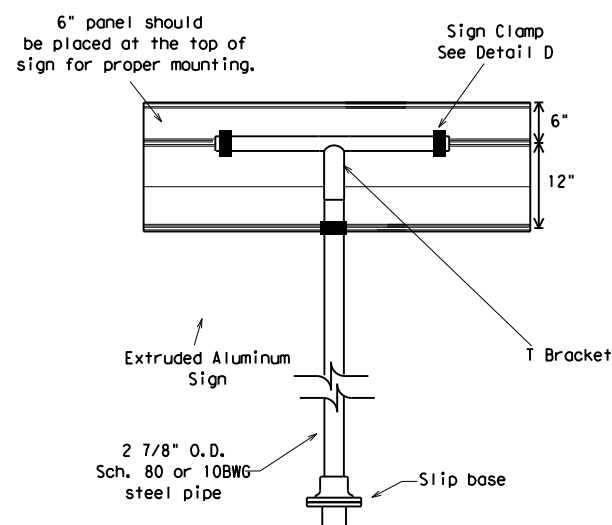


Detail A

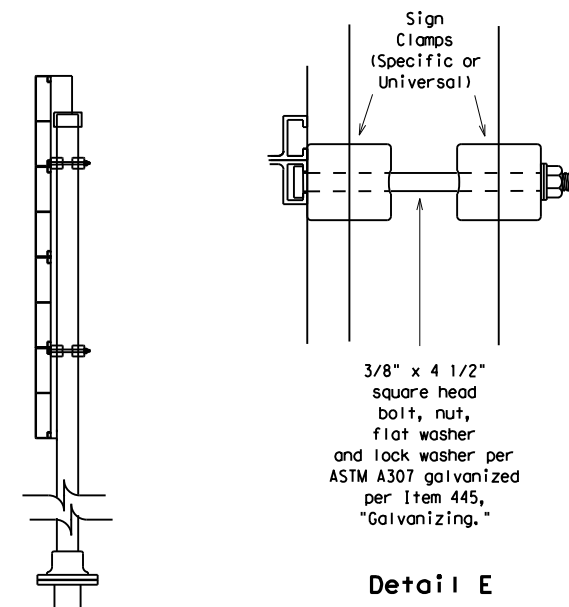


Detail D

EXTRUDED ALUMINUM SIGN WITH T BRACKET



Extruded Aluminum Sign With T Bracket



Detail E

Use Extruded Alum. Windbeam as stiffeners See SMD (2-1) for additional details

See Detail E for clamp installation

GENERAL NOTES:

- | SIGN SUPPORT | # OF POSTS | MAX. SIGN AREA |
|--------------|------------|----------------|
| 10 BWG | 1 | 16 SF |
| 10 BWG | 2 | 32 SF |
| Sch 80 | 1 | 32 SF |
| Sch 80 | 2 | 64 SF |
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- Sign supports shall not be spliced except where shown. Sign support posts shall not be spliced.
- Aluminum sign blanks shall conform to Departmental Material Specifications DMS-7110 and shall have the following minimum thicknesses: 0.080 for signs less than 7.5 sq. ft., 0.100 for signs 7.5 to 15 sq. ft., and 0.125 for signs greater than 15 sq. ft.
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- When two triangular slipbase supports are used to support a single sign, they shall not be "rigidly" connected to each other except through the sign panel. This will allow each support to act independently when impacted by an errant vehicle.
- Wing channel shall meet ASTM A 1011 SS Gr 50 and be galvanized per ASTM A 123.
- Excess pipe, wing channel, or windbeam shall be cut off so that it does not extend beyond the sign panel (i.e., excess support shall not be visible when the sign is viewed from the front.) Repair galvanized coating at cut support ends per Item 445, "Galvanizing."
- Sign blanks shall be the sizes and shapes shown on the plans.
- Additional sign clamp required on the "T-bracket" post for 24 inch high signs. Place the clamp 3 inches above bottom of sign when possible.
- Post open ends shall be fitted with Friction Caps.

		REQUIRED SUPPORT	
		SIGN DESCRIPTION	SUPPORT
Regulatory	48-inch STOP sign (R1-1)		TY 10BWG(1)XX(T) TY 10BWG(1)XX(P-BM)
	60-inch YIELD sign (R1-2)		TY 10BWG(1)XX(T) TY 10BWG(1)XX(P-BM)
	48x16-inch ONE-WAY sign (R6-1)		TY 10BWG(1)XX(T) TY 10BWG(1)XX(P-BM)
	36x48, 48x36, and 48x48-inch signs		TY 10BWG(1)XX(T)
	48x60-inch signs		TY S80(1)XX(T)
Warning	48x48-inch signs (diamond or square)		TY 10BWG(1)XX(T)
	48x60-inch signs		TY S80(1)XX(T)
	48-inch Advance School X-ing sign (S1-1)		TY 10BWG(1)XX(T)
	48-inch School X-ing sign (S2-1)		TY 10BWG(1)XX(T)
	Large Arrow sign (W1-6 & W1-7)		TY 10BWG(1)XX(T)

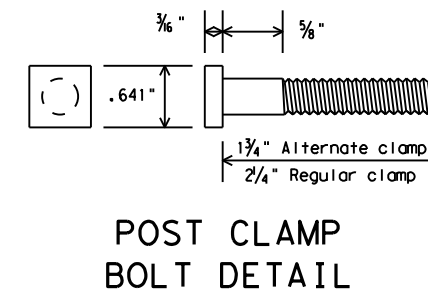
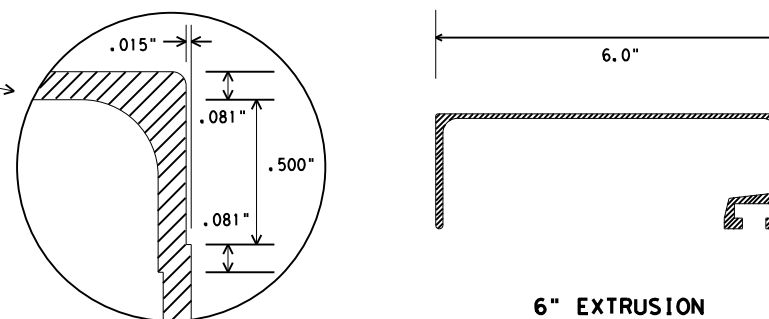
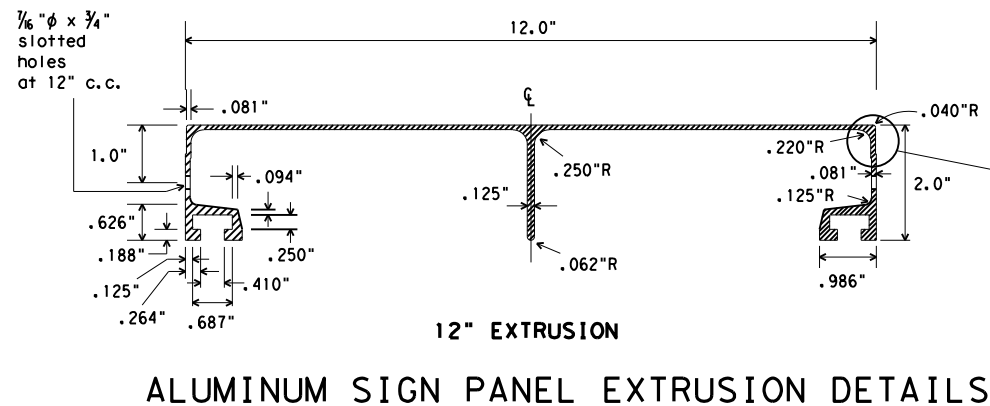
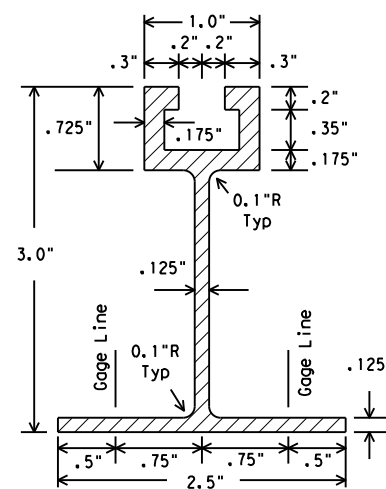
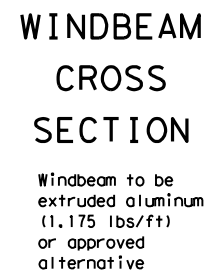
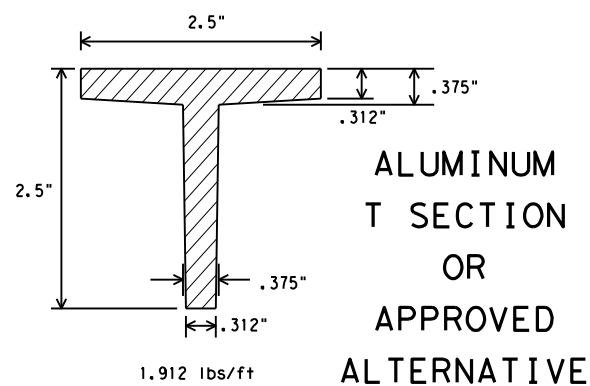
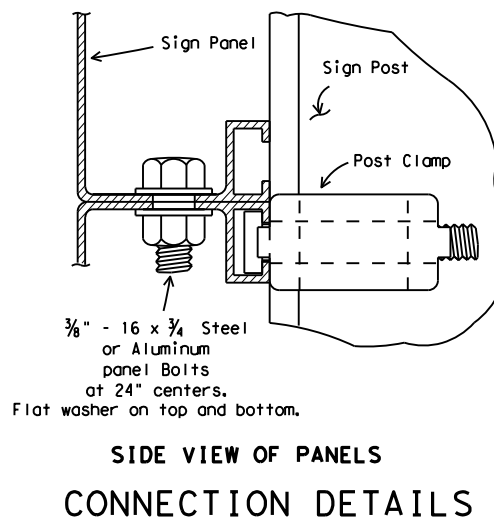
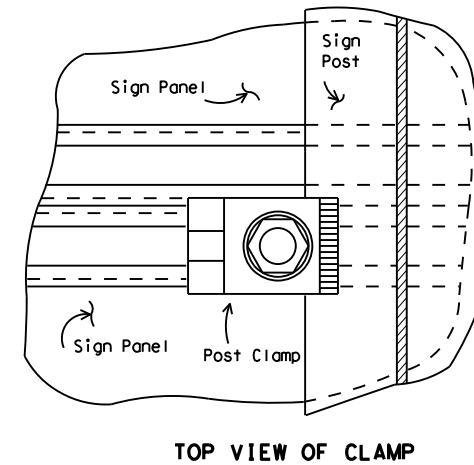
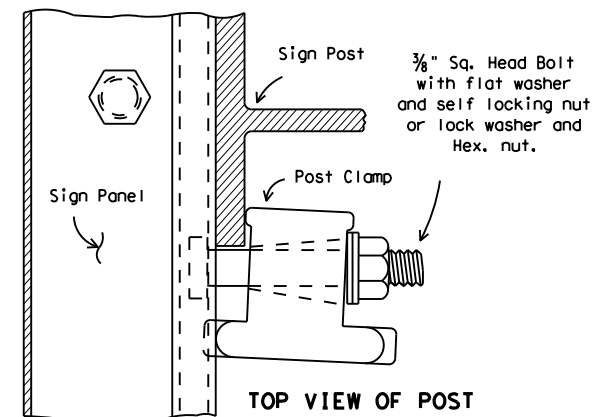
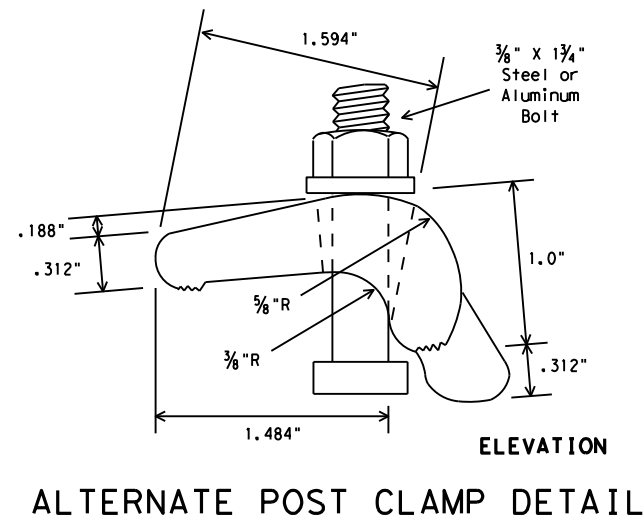
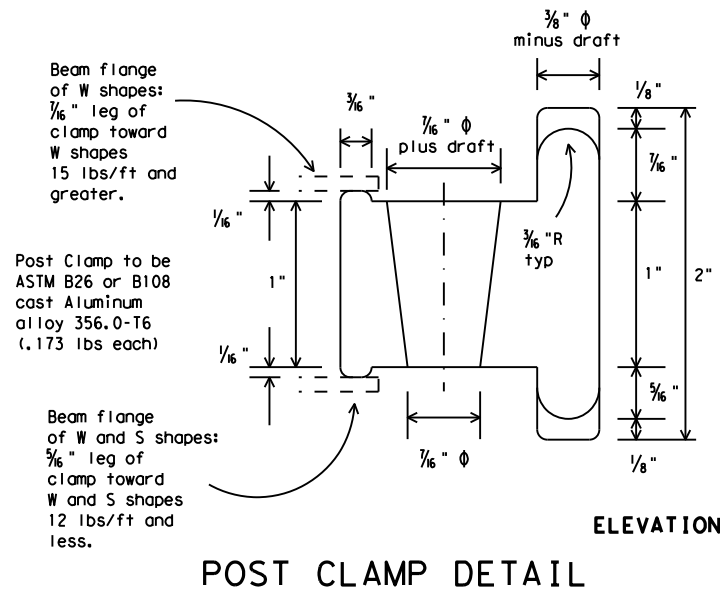
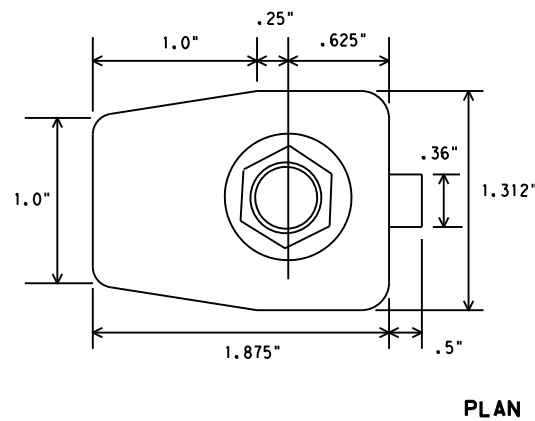
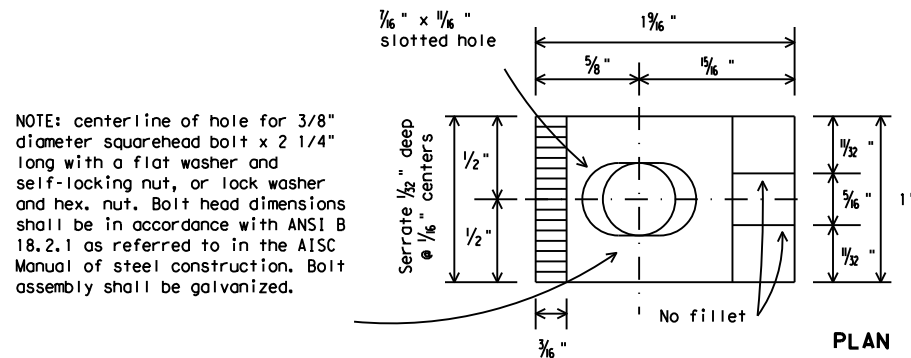
Texas Department of Transportation
Traffic Operations Division

SIGN MOUNTING DETAILS
SMALL ROADSIDE SIGNS
TRIANGULAR SLIPBASE SYSTEM
SMD(SLIP-3)-08

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DEPARTMENTAL MATERIAL SPECIFICATIONS	
SIGN HARDWARE	DMS-7120

- GENERAL NOTES:
- Design conforms with AASHTO Specifications for the design and construction of structural supports for highway signs.
 - Materials and fabrication shall conform to the requirements of the Department material specifications.
 - Structural steel shall be "low-alloy steel" for non-bridge structures per Item 442, "Metal For Structures."
 - For fiberglass substrate connection details, see manufacturer's recommendations.

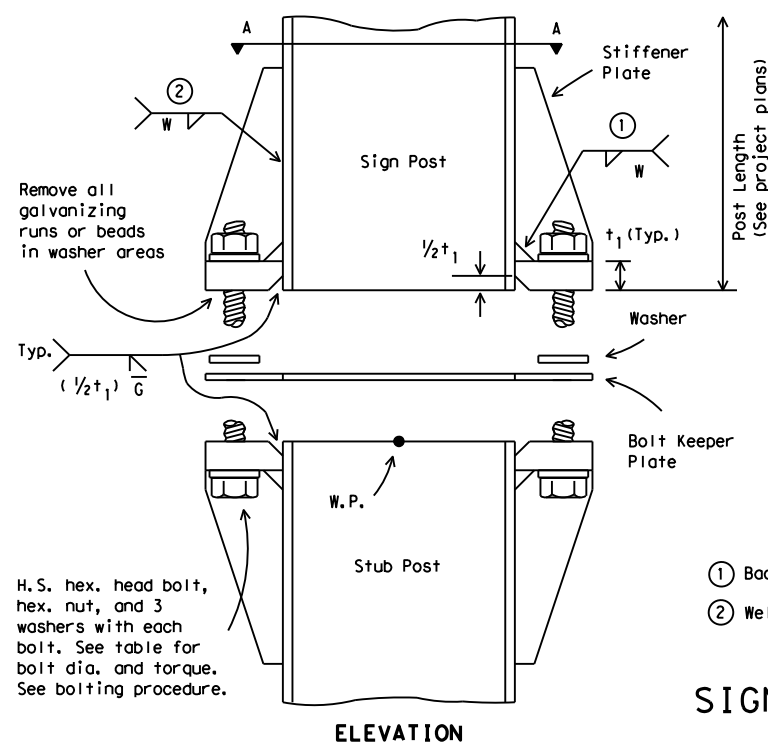
Texas Department of Transportation
Traffic Operations Division

**SIGN MOUNTING DETAILS-
EXTRUDED ALUMINUM
SIGN PANELS & HARDWARE**

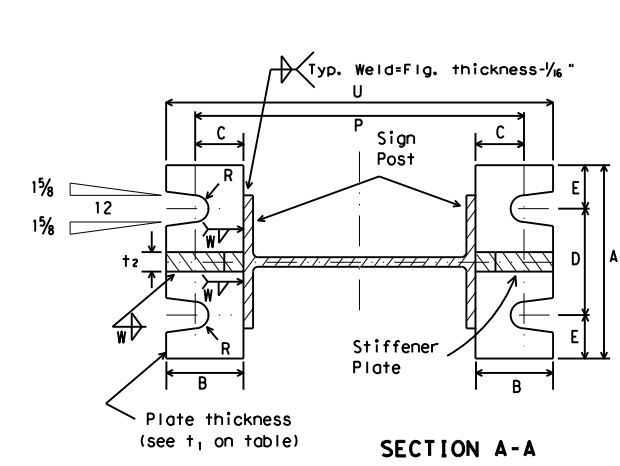
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		DIST	COUNTY	HIGHWAY
		21	HIDALGO, ETC.	IH-2, ETC.
				SHEET NO.
				249

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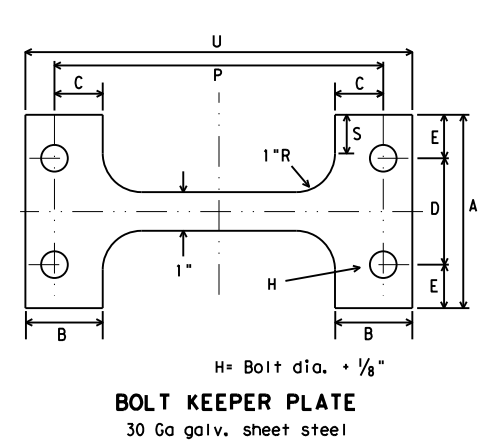
ELEVATION



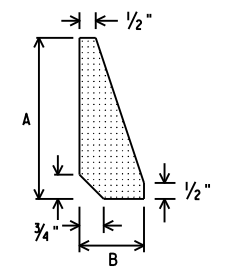
SECTION A-A

- ① Back up weld to be made before installing stiffener plate
- ② Weld W may be continued across clips to seal joint

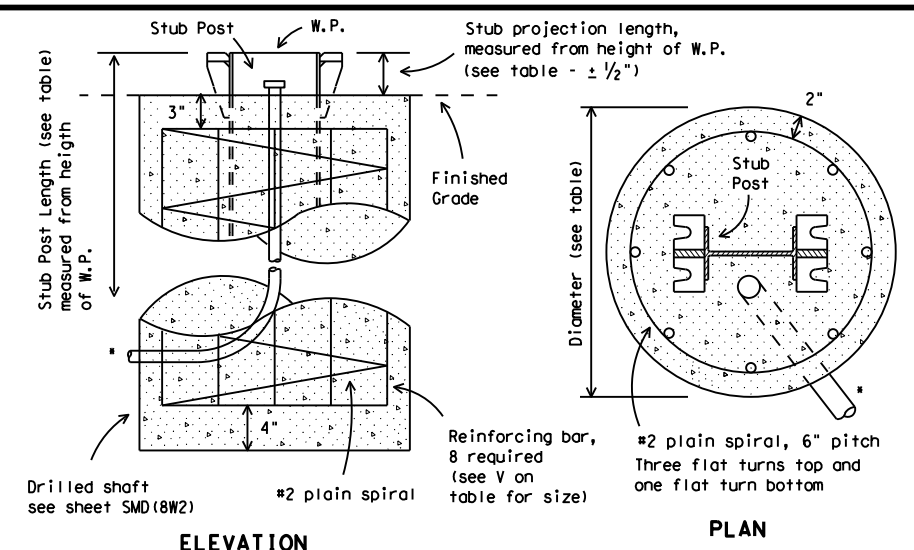
SIGN POST AND STUB POST
(For W Shapes)



BOLT KEEPER PLATE
30 Ga galv. sheet steel

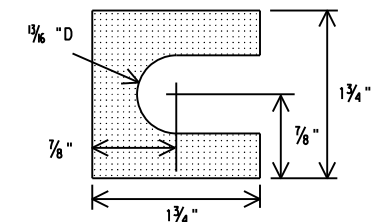


STIFFENER PLATE
DETAIL



FOUNDATION DETAIL

*Note: For signs with electrical apparatus, see ED(10) for conduit required in foundation.

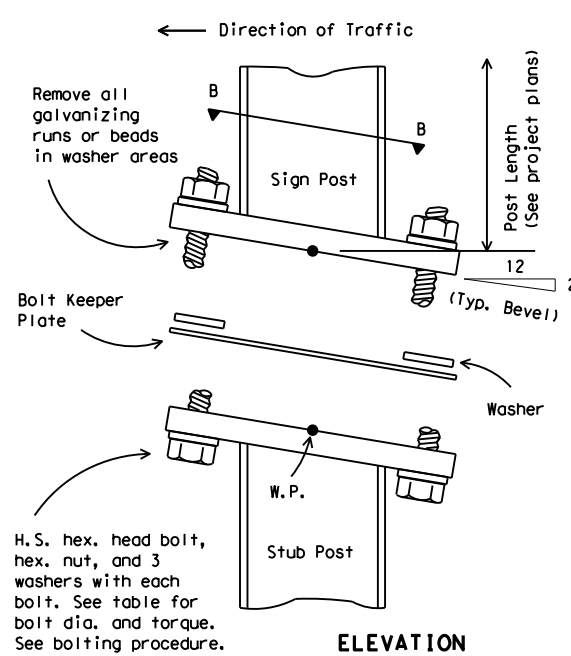


SHIM DETAIL

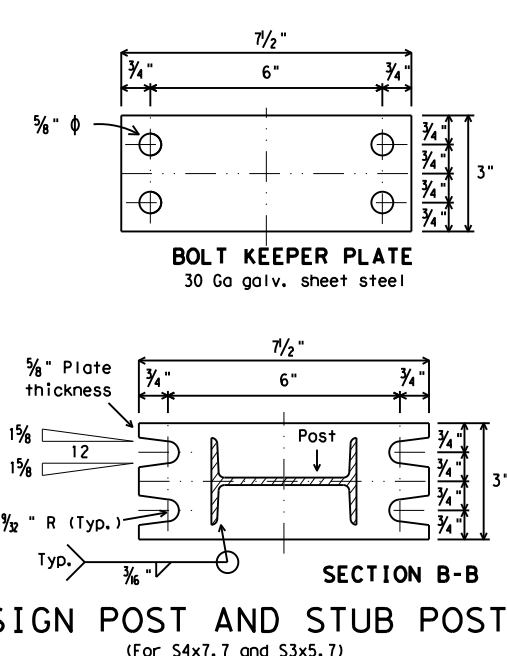
- BOLTING PROCEDURE FOR ASSEMBLY OF BASE CONNECTION:**
1. Assemble sign post, BOLT KEEPER PLATE and stub post with bolts and three flat washers per bolt as shown.
 2. Shim as required to plumb post.
 3. Tighten all bolts the maximum possible with a 12 to 15 inch wrench to clean bolt threads and to bed washers and shims.
 4. Loosen each bolt in sequence and retighten bolts in a systematic order to the prescribed torque. Do not over-tighten.
 5. To prevent nut loosening, burr threads of bolt at junction with nut using a center punch.

Dimensions Post Size	Base Connection Data Table										Perforated Fuse Plate Data Table							Bolt Keeper Data			Foundation Data								
	Bolt Size & Torque	A	B	C	D	E	t ₁	t ₂	W	R	F	G	J	K	M	d ₁	d ₂	t ₃	Bolt Dia.	Wt. (ea.) (lbs.)	Bolt length	P	S	U	Stub length	Stub projection	Dr. Shaft diameter	Bar V Size	
W6x9	5/8" φ × 2 3/4"										4 1/4"	2"	4"	2 1/4"	1"	9/16"	3/4"	1/4"	1/2"	1.01	1 1/2"	8 3/8"		9 7/8"	2'-0"	3"			#5
W6x12	440-450 inch pounds	5"	2"	1 1/4"	2 3/4"	1 1/8"	3/4"	1/2"	1/4"	1/32"	5"	2 1/2"	6"	3 1/2"	1 1/2"	1/16"	1/4"	3/8"	5/8"	2.51	2 1/4"	8 1/2"	1"	10"	2'-0"	3"			#5
W6x15	36-38 foot pounds										5"	2 1/2"	5 1/4"	2 3/4"	1 1/4"	1/16"	1/16"	3/8"	5/8"	2.26	2 1/4"	10 5/8"		12 1/8"	2'-6"	3"			#6
W8x18											5 1/2"	2 1/2"	5 1/4"	2 3/4"	1 1/4"	13/16"	1"	1/2"	3/4"	3.35	2 1/4"	11"		12 3/4"	3'-0"	2 1/2"			#7
W8x21	3/4" φ × 3 1/2"										6"	3"	5 3/4"	2 3/4"	1 3/8"	13/16"	1 1/8"	1/2"	3/4"	4.03	2 1/4"	12 7/8"	1 1/2"	14 5/8"	3'-0"	2 1/2"			#8
W10x22	740-750 inch pounds	6"	2 1/4"	1 3/8"	3 1/2"	1 1/4"	1"	3/4"	5/16"	13/32"	6"	3"	6 1/2"	3 1/2"	1 5/8"	13/16"	1 5/16"	1/2"	3/4"	4.47	2 1/4"	15"		16 3/4"	3'-0"	2 1/2"			#9
W10x26	62-63 foot pounds										6"	3"	6 1/2"	3 1/2"	1 5/8"	13/16"	1 5/16"	1/2"	3/4"	4.47	2 1/4"	15"		16 3/4"	3'-0"	2 1/2"			#10
W12x26											6"	3"	6 1/2"	3 1/2"	1 5/8"	13/16"	1 5/16"	1/2"	3/4"	4.47	2 1/4"	15"		16 3/4"	3'-0"	2 1/2"			#11
S3x5.7	1/2" φ × 2 1/2"	See Detail Below										3 3/4"	1 1/2"	2 5/8"	1 1/2"	5/8"	9/16"	3/8"	1/4"	1/2"	0.60	1 1/2"	See Detail Below			3'-3 1/2"	3/2"	12"	Non-reinforced
S4x7.7	440-450 inch pounds	See Detail Below										3 3/4"	1 1/2"	2 5/8"	1 1/2"	5/8"	9/16"	3/8"	1/4"	1/2"	0.60	1 1/2"	See Detail Below			3'-3 1/2"	3/2"	12"	Non-reinforced

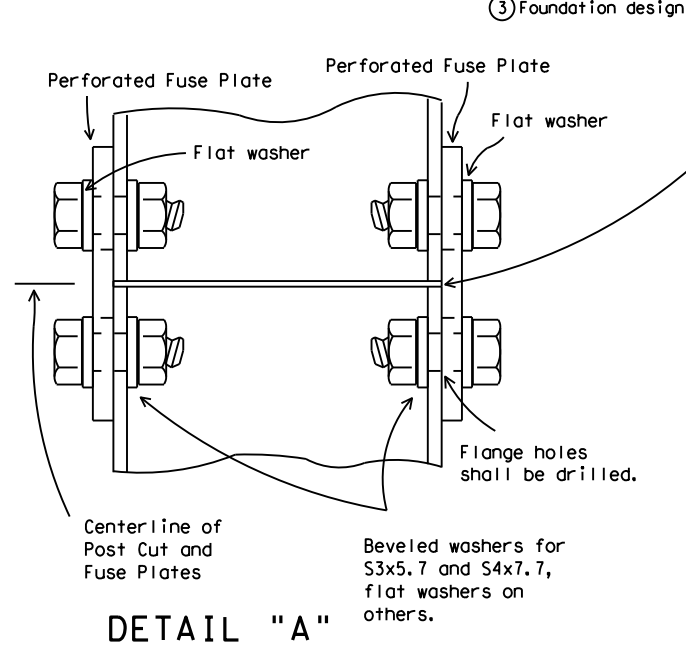
③ Foundation design shall be Type G Mount, see SMD (TY G).



ELEVATION



SIGN POST AND STUB POST
(For S4x7.7 and S3x5.7)



DETAIL "A"

PERFORATED FUSE PLATE DETAIL

Use H.S. hex head bolts, hex head nut and bevel or flat washer (where req'd) under nut. All holes shall be drilled, sub-punched and reamed. All plate cuts shall preferably be saw cuts. However, flame cutting will be permitted provided all edges are ground. Metal projecting beyond the plane of the plate face will not be permitted. Steel fuse plates shall conform to the requirements of ASTM A36. ASTM A572 Grade 50 or ASTM A588 may be substituted for A36 at the option of the fabricator. Mill test reports shall be submitted for Fuse Plates. Steel used shall have an ultimate tensile strength not to exceed 80 KSI. For alternative Fuse Plate contact Traffic Operations Division.

Texas Department of Transportation
Traffic Operations Division

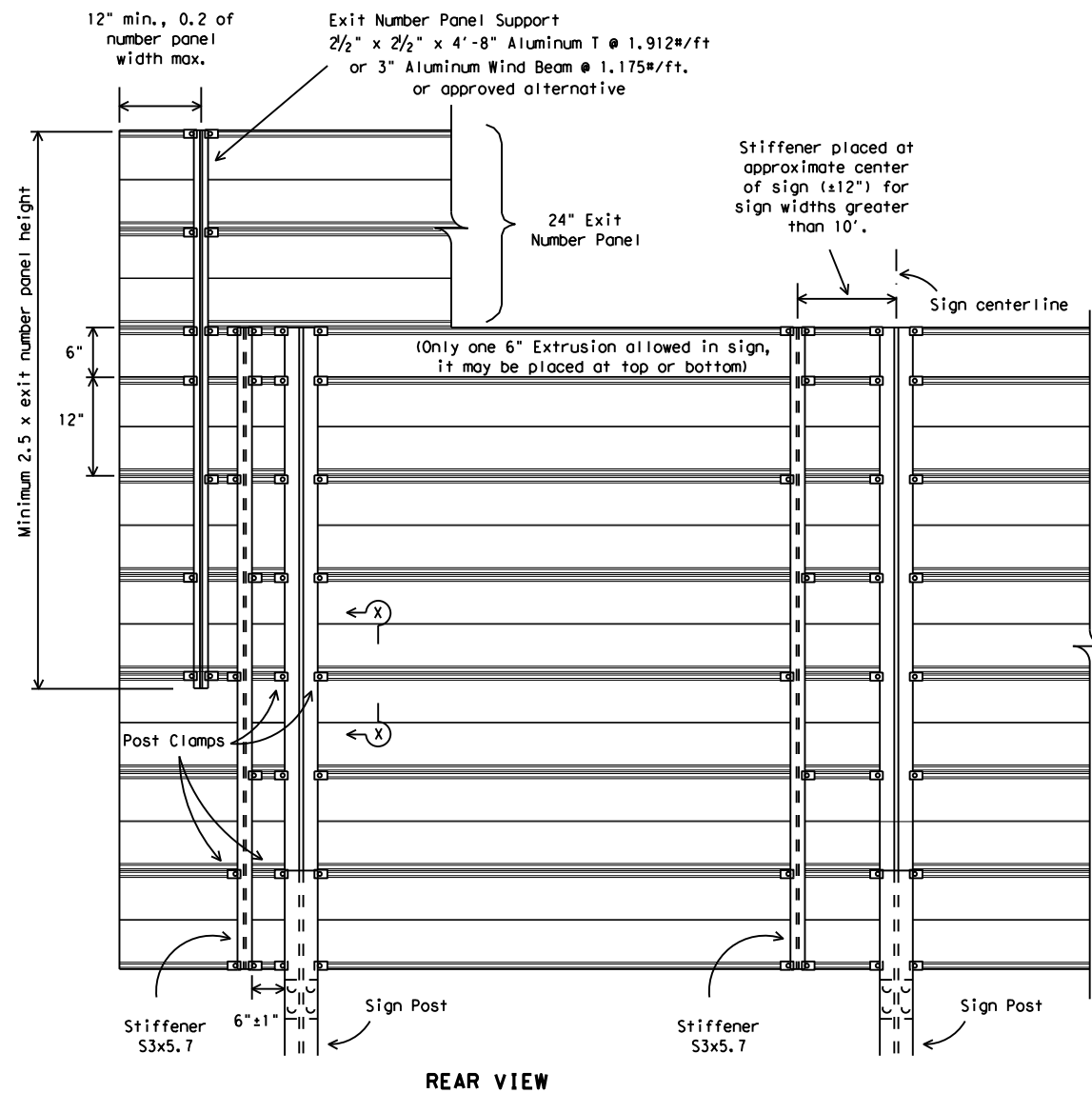
**SIGN MOUNTING DETAILS-
LARGE ROADSIDE SIGNS
FOUNDATION & STUB**

SMD(2-2)-08

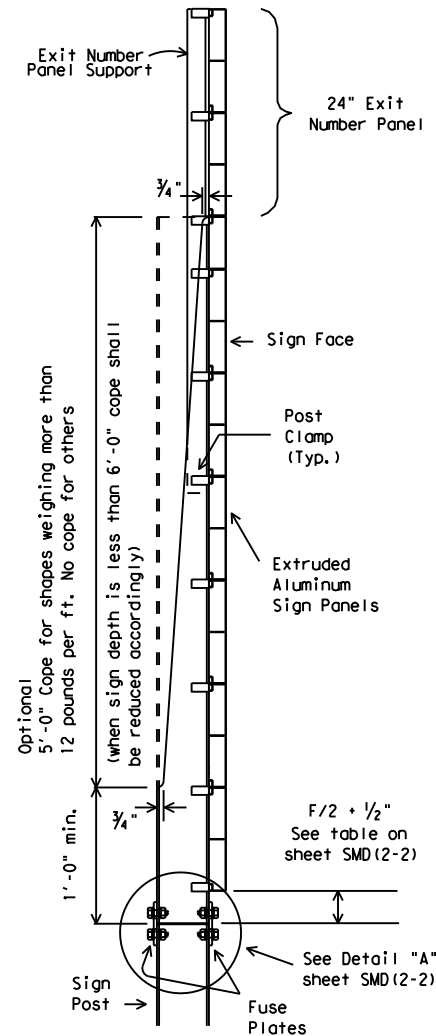
© TxDOT August 1995		DN: TxDOT	CK: TxDOT	DW: TxDOT	CK: TxDOT
4-98	REVISIONS	CONT. SECT.	JOB	HIGHWAY	
9-08		6353 00	001	IH-2, ETC.	
		DIST.	COUNTY	SHEET NO.	
		21	HIDALGO, ETC.	250	

DATE:
FILE:

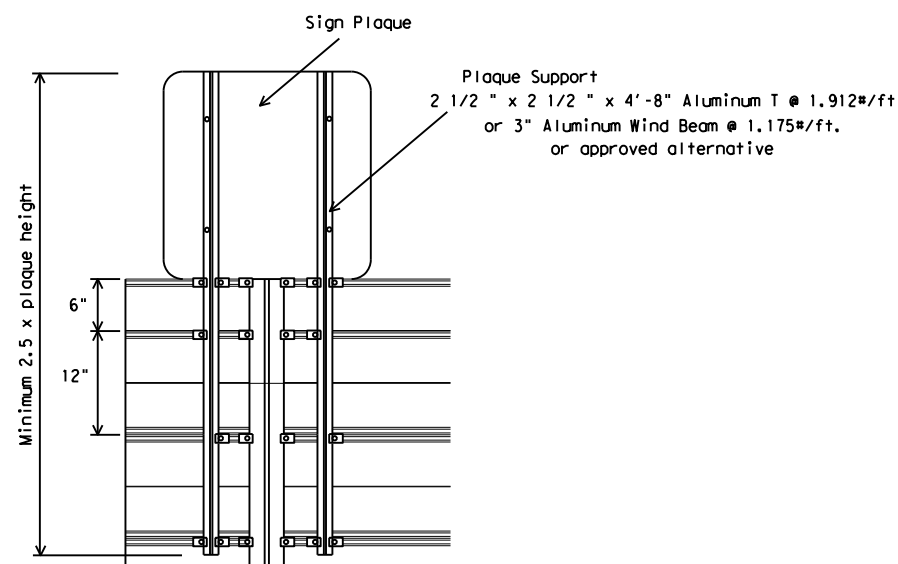
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REAR VIEW
ALUMINUM PARENT SIGN & EXIT NUMBER PANEL MOUNTING DETAILS

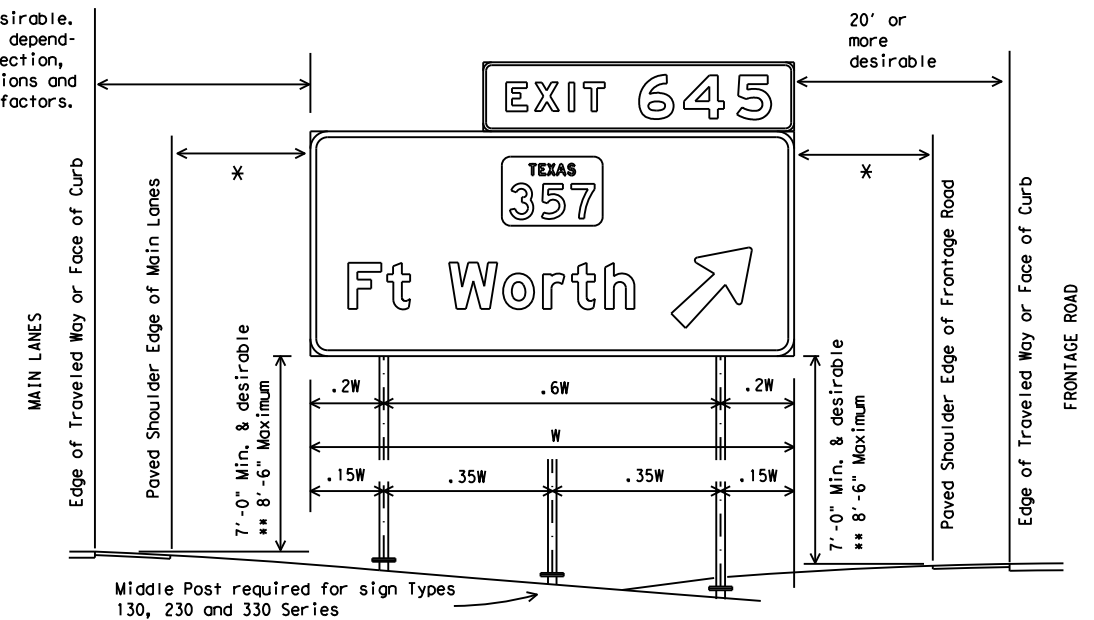


SIDE VIEW



SIGN PLAQUE MOUNTING DETAIL TO ALUMINUM PARENT SIGN

30' or more desirable. May be reduced depending on cross section, viewing conditions and other related factors.



TYPICAL SIGN INSTALLATION AND LOCATION

LATERAL CLEARANCE NOTES:

Lateral clearances of signs mounted on median side of main lanes are the same as shown above where space will permit.

Where a sign is to be located behind guardrail, an allowable minimum clearance of five feet may be used, measured from the face of the guardrail to the near edge of sign.

* - 6' minimum and desirable may be used only in areas of limited lateral clearance and when approved by the Engineer.

POST SPACING NOTES:

Post spacing on a two post sign may vary a maximum of plus or minus 10% of total sign width to fit field conditions.

Post spacing on a three post sign may vary a maximum of plus or minus 5% of total sign width to fit field conditions.

SIGN HEIGHT NOTES:

** The 8' 6" maximum may be exceeded when placing signs on extreme slopes. In these conditions, a 7' minimum from natural ground to bottom of sign must be maintained.

DEPARTMENTAL MATERIAL SPECIFICATIONS

ALUMINUM SIGN BLANKS	DMS-7110
SIGN HARDWARE	DMS-7120

GENERAL NOTES:

- Exit number panel shall be mounted to the right hand side of the parent sign for right exits and to the left hand side for left exits. The number panel shall be mounted with two uprights so its right edge is even with the right edge of the parent sign or vice-versa for left hand exits.
- Exit number panel support shall be symmetrical about number panel centerline.
- Exit number panel support shall be ASTM A36 structural steel galvanized after fabrication, or ASTM B221 aluminum alloy 6061-T6 or approved alternative.
- All bolts, nuts and washers shall be galvanized per ASTM Designation: B695 Class 50, or A153 Class C or D.
- Posts, parent sign panels, and exit number panels shall comply with notes on sheets SMD(2-1) and SMD(2-2).
- Signs (such as exit number panels) attached above a parent sign shall be made of the same type material as the parent sign. General Service and Routing signs may be fabricated from flat sheet aluminum.
- Exit number panel support and other connection hardware required to fasten exit number panel to parent sign shall be subsidiary to "Aluminum Signs" or "Fiberglass Signs."
- For fiberglass sign installation details, see manufacturer's recommendations.



SIGN MOUNTING DETAILS-
LARGE ROADSIDE SIGNS

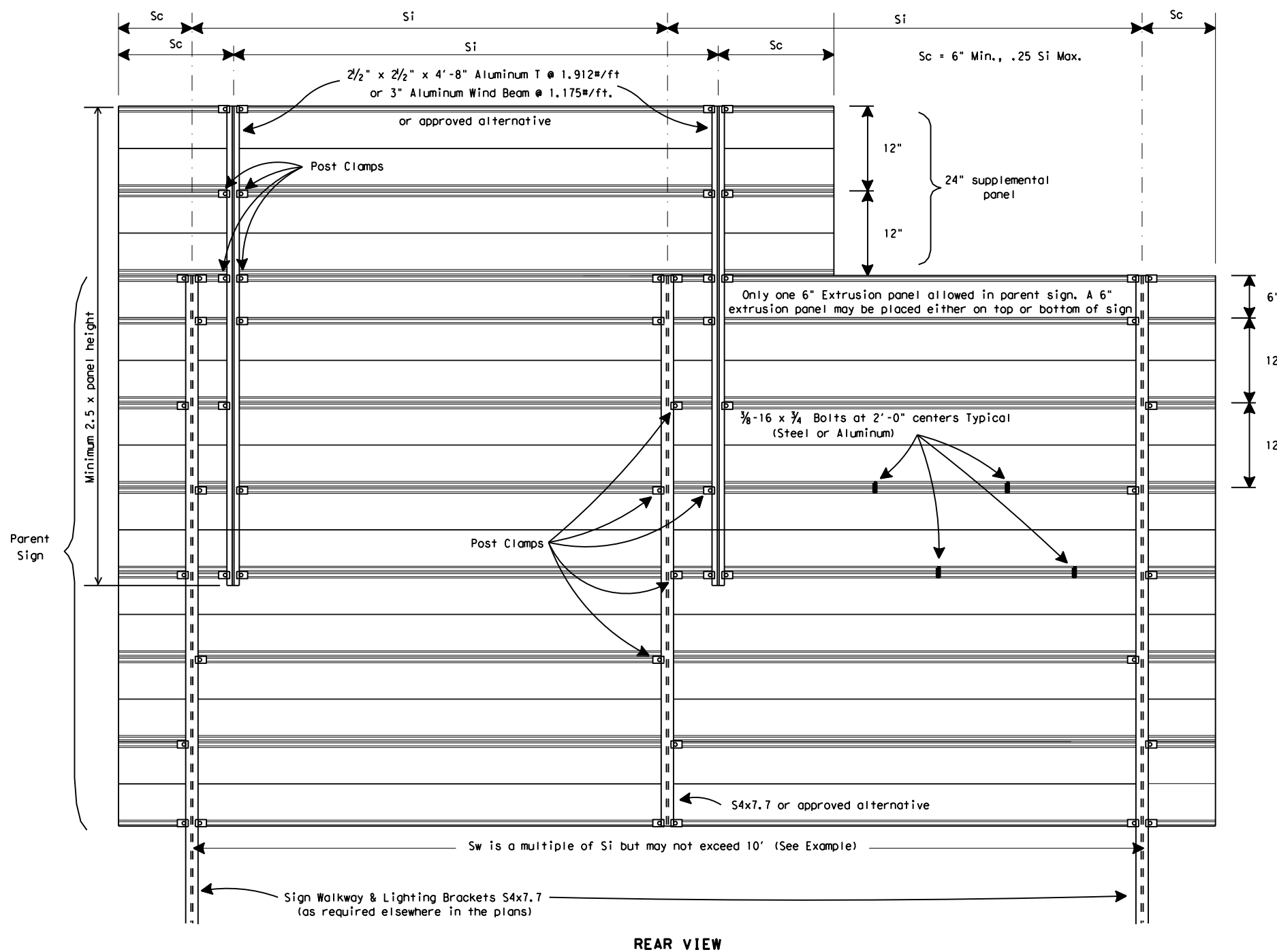
SMD(2-3)-08

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9-08	REVISIONS	CON: 6353	SECT: 00	JOB: 001
		DIST: 21	COUNTY: HIDALGO, ETC.	HIGHWAY: IH-2, ETC.
			SHEET NO.	251

DATE:
FILE:

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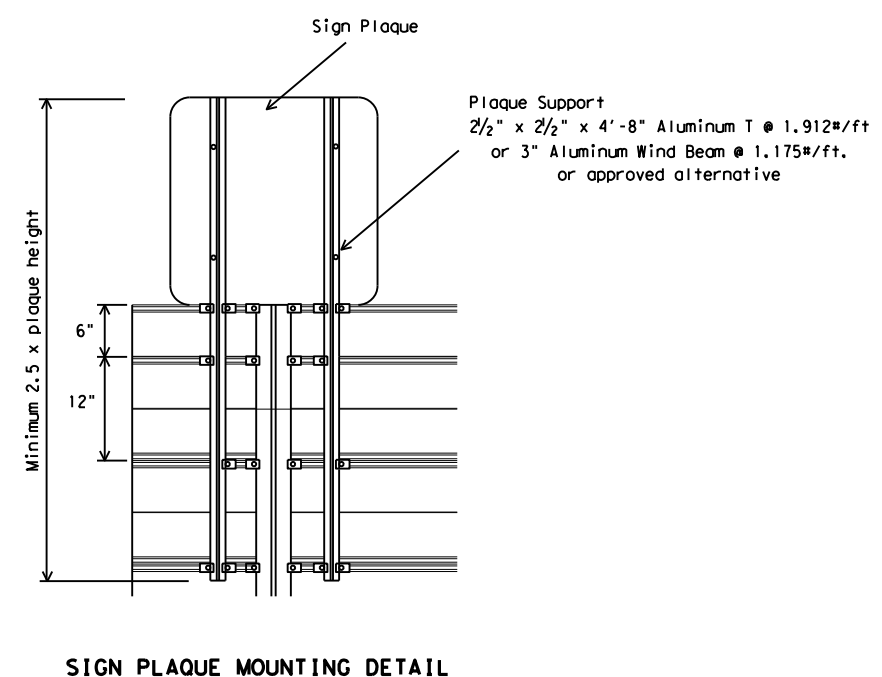
DATE:
FILE:



EXAMPLES (FOR DETERMINING Si and Sw)

NO.	ZONE	"d"	EXIT PANEL	WALKWAY	Si	Sw	COMMENT
1	1	15.0	YES	YES	4.5	9.0	Sw=2x(Si)
2	2	14.0	YES	NO	7.5	7.5	Sw = Si
3	1	15.0	NO	NO	8.5	8.5	Sw = Si
4	3	14.0	NO	YES	10.0	10.0	Sw = Si

Values shown for Si are maximum values. Si may be varied for different sign lengths and Truss mounting conditions. Sw should not exceed two times Si (Max.) or 10 feet.



"d"	MAXIMUM SIGN SUPPORT SPACING "Si" (FEET)															
	EXTRUDED ALUMINUM SIGN PANELS															
	WITH EXIT NUMBER PANELS								WITHOUT EXIT NUMBER PANELS							
	WITH WALKWAYS				WITHOUT WALKWAYS				WITH WALKWAYS				WITHOUT WALKWAYS			
Deepest Sign in Group (Ft.)	WIND ZONE				WIND ZONE				WIND ZONE				WIND ZONE			
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
15	4.5	7	8	10	5	7	8	10	7	8	9	10	8.5	10	10	10
14	6	7.5	9.5	10	6	7.5	9.5	10	8	9	10	10	10	10	10	10
13	7.5	9	10	10	7.5	9	10	10	9	10	10	10	10	10	10	10
12	8.5	10	10	10	8.5	10	10	10	10	10	10	10	10	10	10	10
11 or less	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10

For fiberglass sign installations, see manufacturer's recommendations.

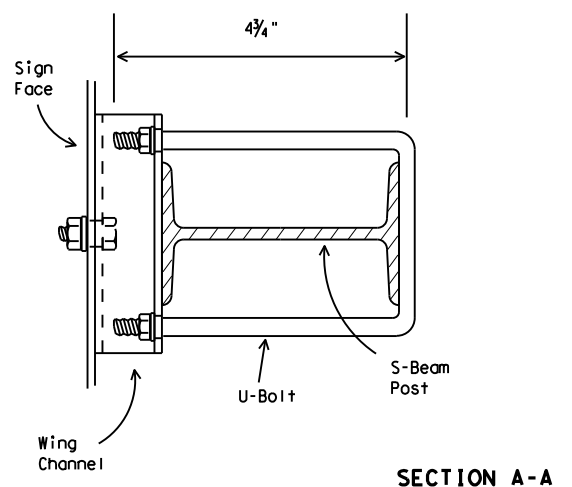
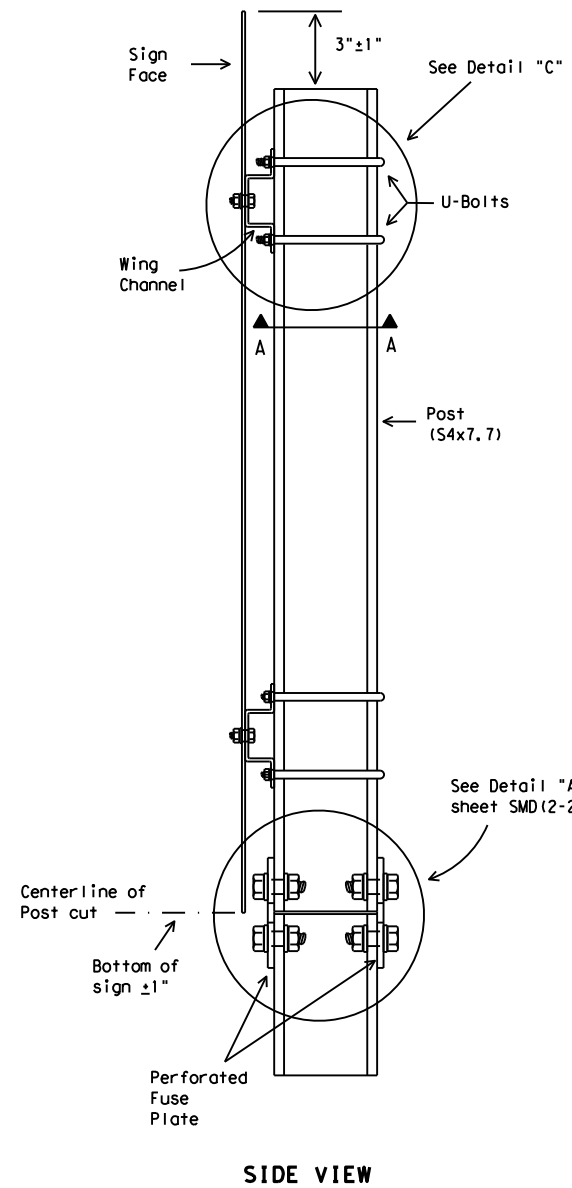
Texas Department of Transportation
Traffic Operations Division

**SIGN MOUNTING DETAILS-
OVERHEAD SIGNS
EXTRUDED ALUMINUM
SMD (2-4) -08**

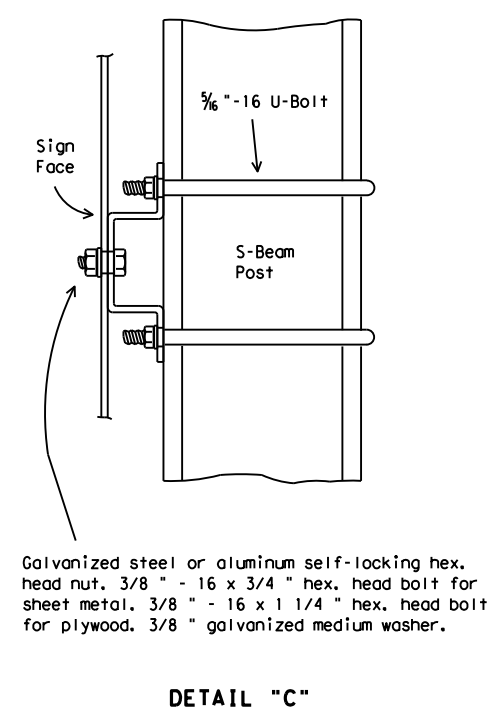
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9-08	REVISIONS	CONT	SECT	JOB	HIGHWAY
		6353	00	001	IH-2, ETC.
		DIST	COUNTY	SHEET NO.	
		21	HIDALGO, ETC.	252	

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WING CHANNEL CLAMP DETAIL FOR TYPE G MOUNT

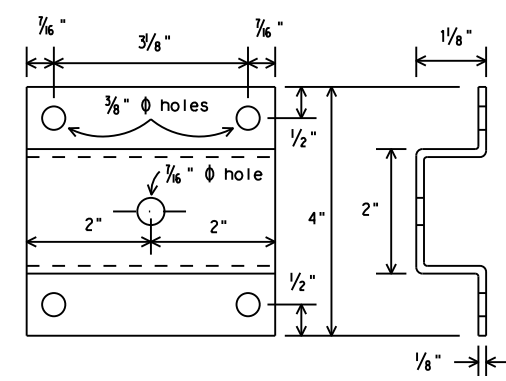


SECTION A-A



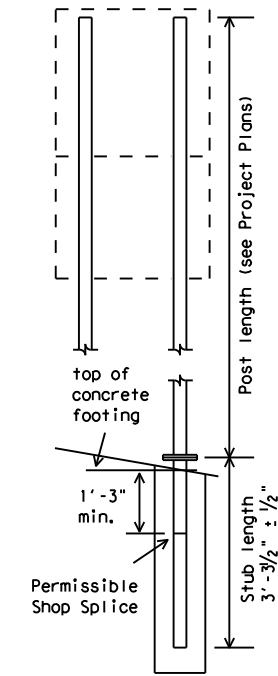
Galvanized steel or aluminum self-locking hex. head nut. 3/8" - 16 x 3/4" hex. head bolt for sheet metal. 3/8" - 16 x 1 1/4" hex. head bolt for plywood. 3/8" galvanized medium washer.

DETAIL "C"



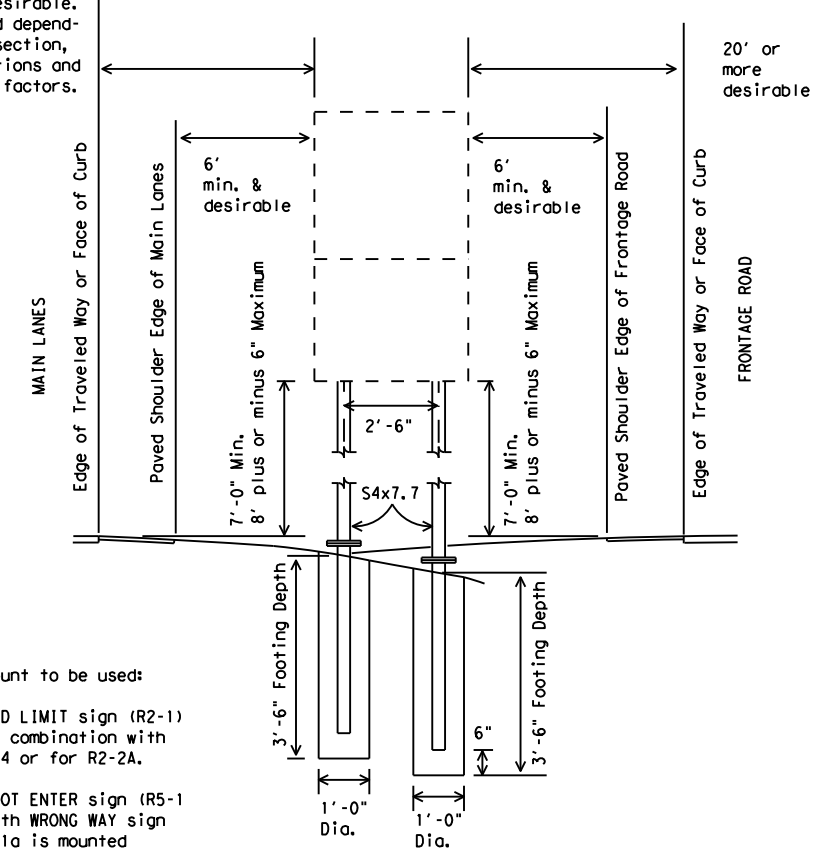
WING CHANNEL

Wing channel, 4" width x 1/8" depth x 1/8" thickness, shall be aluminum (ASTM B221 6061-T6 or B308 6061-T6), galvanized steel (ASTM A36) or stainless steel (ASTM A167 type 304, No. 2B finish).



The weight of one S4x7.7 post is equal to 112.2 lbs. plus 7.7 lbs./ft x (post length in feet minus 10 ft). The weight of 112.2 lbs. includes 10 feet of post length, post foundation stub, related connection plates, friction fuse plate, and all high strength bolts, nuts and washers.

30' or more desirable. May be reduced depending on cross section, viewing conditions and other related factors.



- This type mount to be used:
- (1) For SPEED LIMIT sign (R2-1) when used in combination with R2-2 and R2-4 or for R2-2A.
 - (2) For DO NOT ENTER sign (R5-1) when used with WRONG WAY sign (R5-1a). R5-1a is mounted above R5-1.

DEPARTMENTAL MATERIAL SPECIFICATIONS SIGN HARDWARE	DMS-7120
---	----------

- GENERAL NOTES:
1. Design conforms with AASHTO Specifications for the design and construction of structural supports for highway signs.
 2. Materials and fabrication shall conform to the requirements of the Department material specifications.
 3. Structural steel shall be "Low-Alloy Steel" for non-bridge structures per Item 442, "Metal For Structures."
 4. Parts shall be saw cut either before galvanizing and the galvanized cut cleaned of zinc build-up, or saw cut after galvanizing and the cut surface repaired per Item 445, "Galvanizing." (Cut surface will not be treated until plate is installed and all bolts fully tightened.)

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 Traffic Operations Division

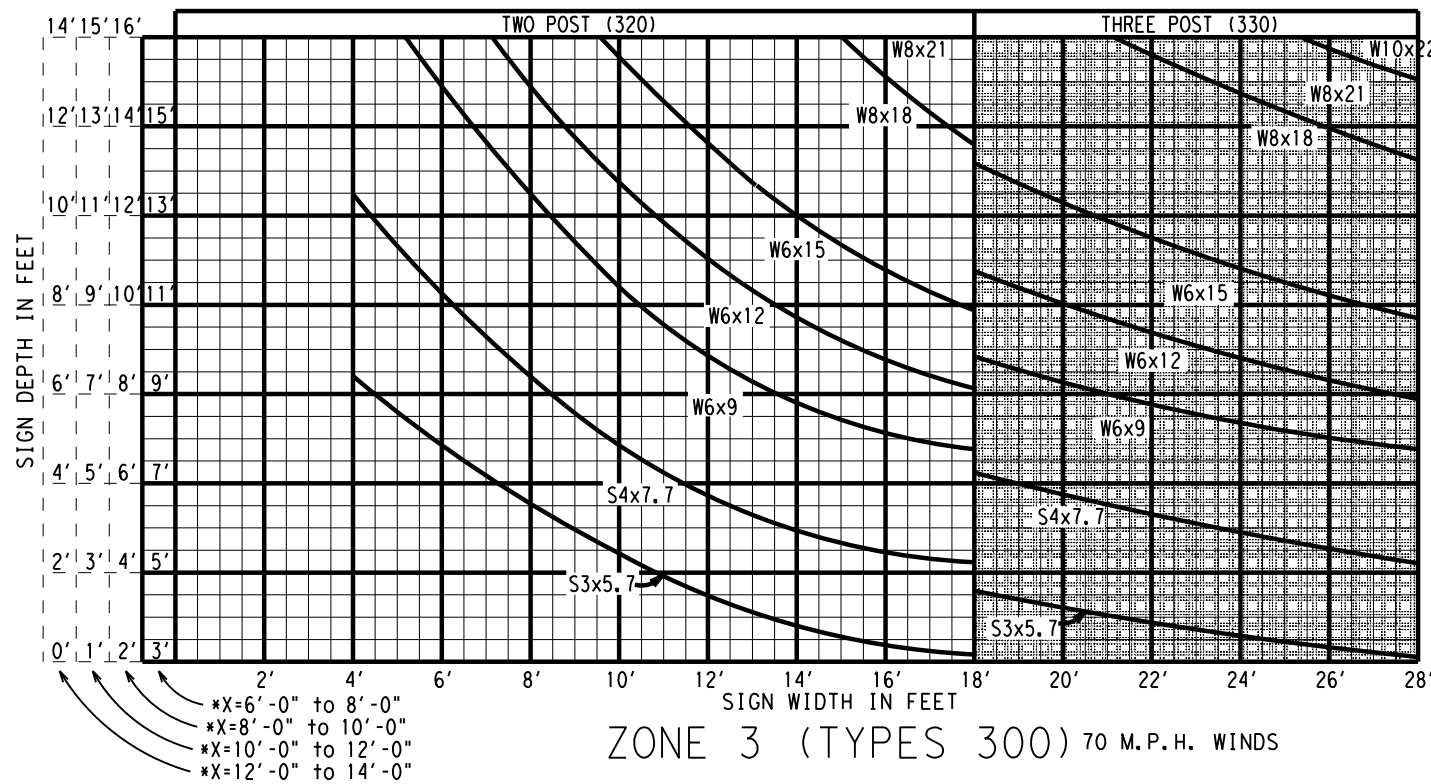
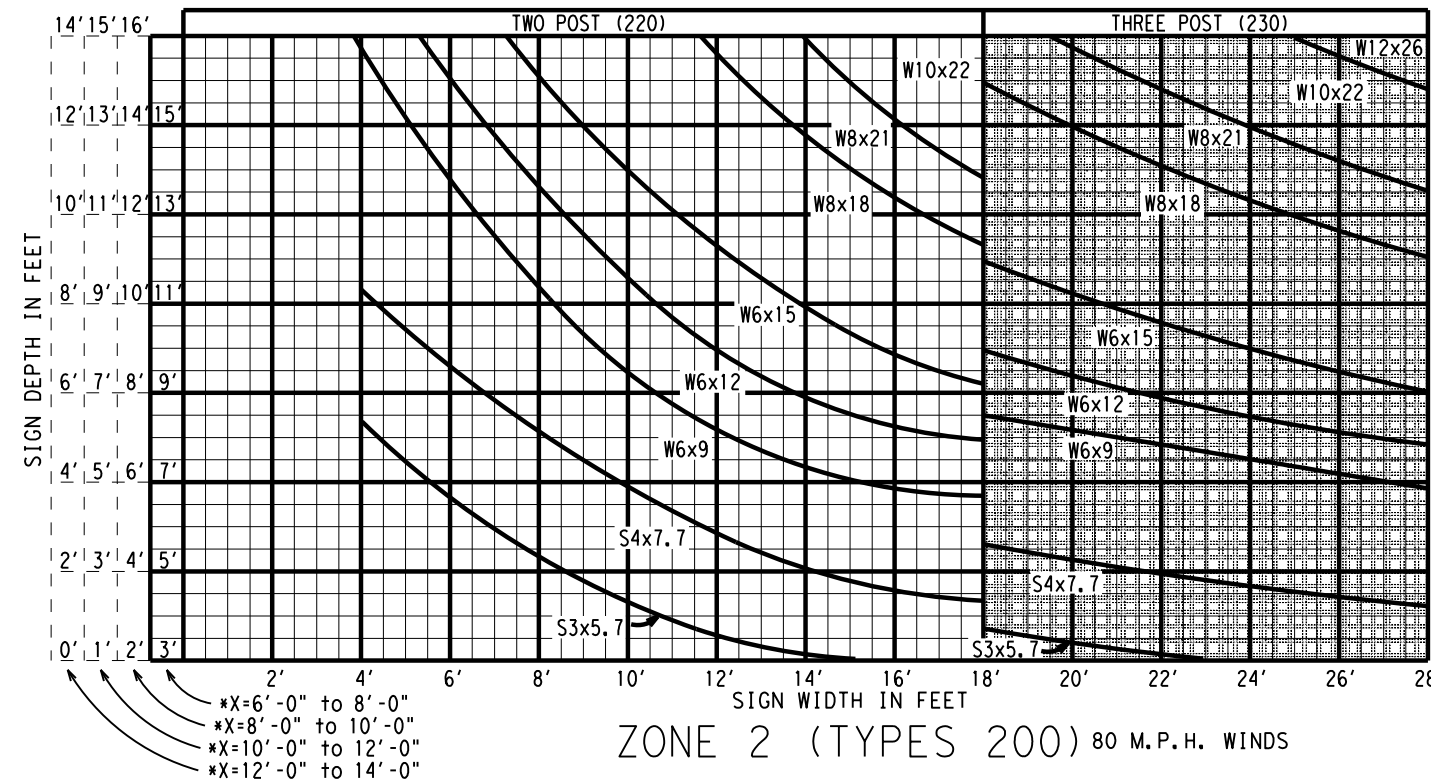
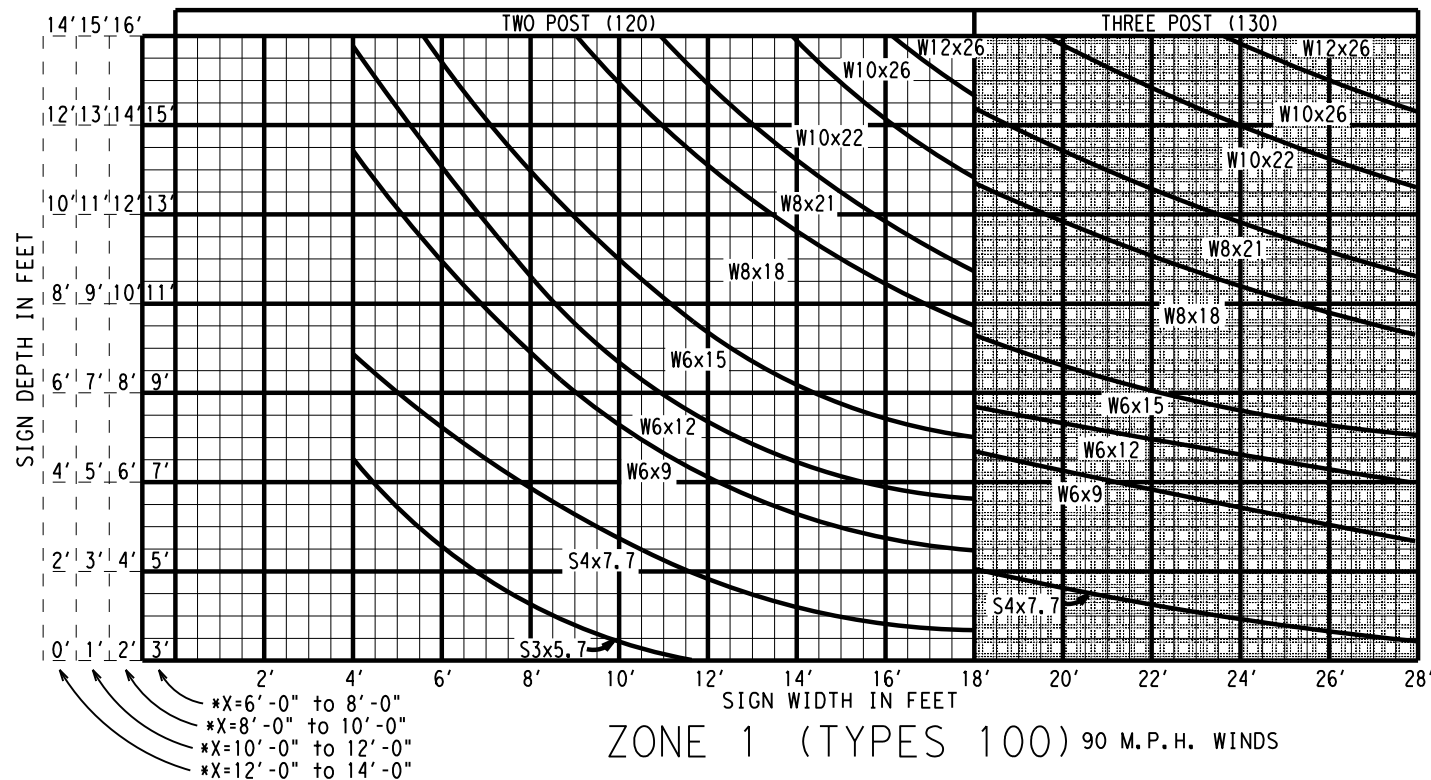
SIGN MOUNTING DETAILS, TYPE G SUPPORT

SMD(TY G)-08

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9-08	6353	00	001	IH-2, ETC.	
DIST			COUNTY	SHEET NO.	
21			HIDALGO, ETC.	253	

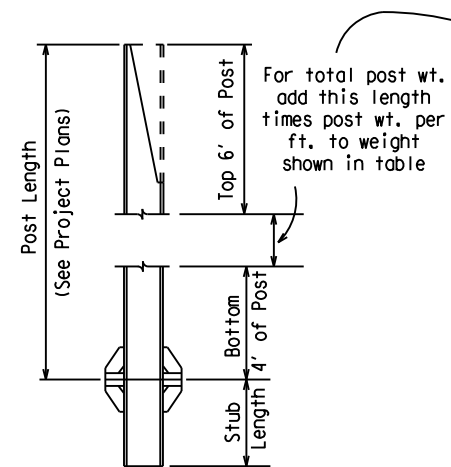
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* NOTE: "X" EQUALS THE AVERAGE HEIGHT FROM THE GROUND LINE TO THE BOTTOM EDGE OF THE SIGN.

SHADED AREA DENOTES 3 POST SUPPORTS

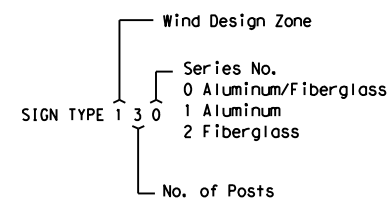


POST SIZE	WEIGHT OF ONE POST (#)	WEIGHT OF TWO POSTS (#)	WEIGHT OF THREE POSTS (#)
W6x9*	123.2	246.4	369.6
W6x12*	160.3	320.6	480.9
W6x15*	167.8	335.6	503.4
W8x18*	201.8	403.6	605.4
W8x21*	254.7	509.4	764.1
W10x22*	266.0	532.0	798.0
W10x26*	308.0	616.0	924.0
W12x26*	308.6	617.2	925.8
S3x5.7*	85.9	171.8	257.7
S4x7.7*	112.2	224.4	336.6

*LAST FIGURES=POST WT. PER FT.

Weight Data is the weight of items shown for one, two or three posts - (includes top 6' of post, bottom 4' of post, post foundation stub, related base connection plates and stiffeners, friction fuse plate and all high strength bolts, nuts and washers).

SIGN TYPE



Note: Footings for S3x5.7 and S4x7.7 post sizes shall be non-reinforced with Class A concrete, while footing for all other post sizes shall be reinforced with Class C concrete.

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**LARGE ROADSIDE SIGN SUPPORTS
 POST SELECTION
 WORKSHEET**

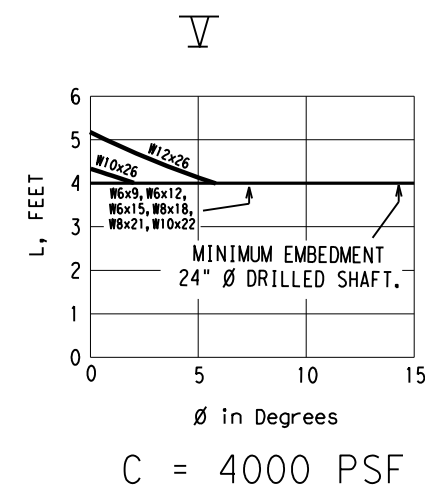
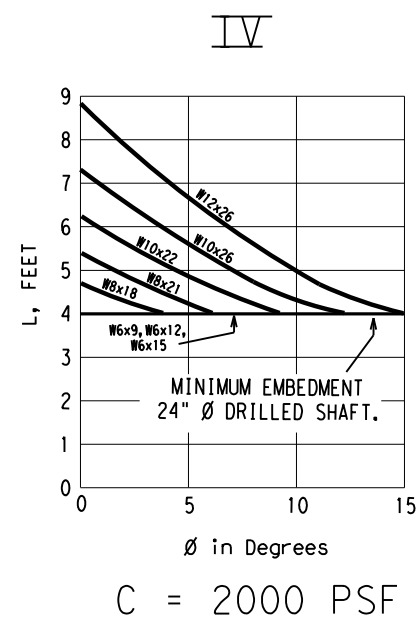
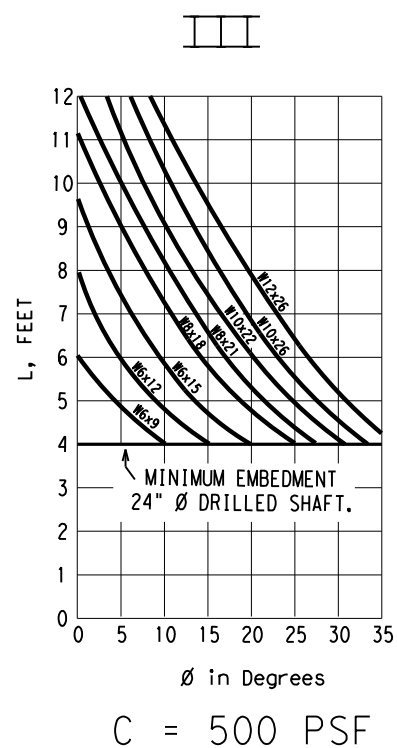
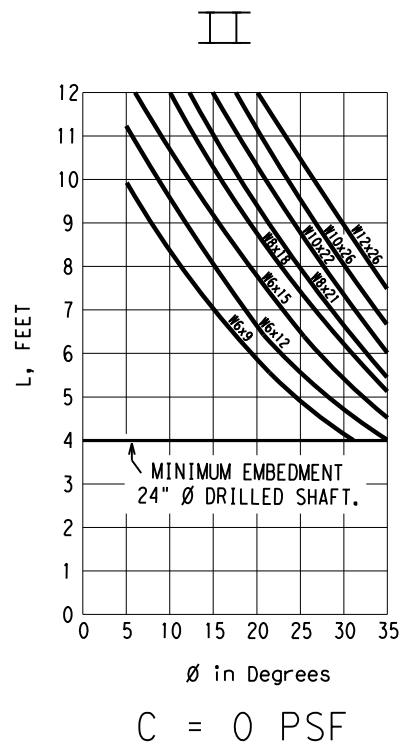
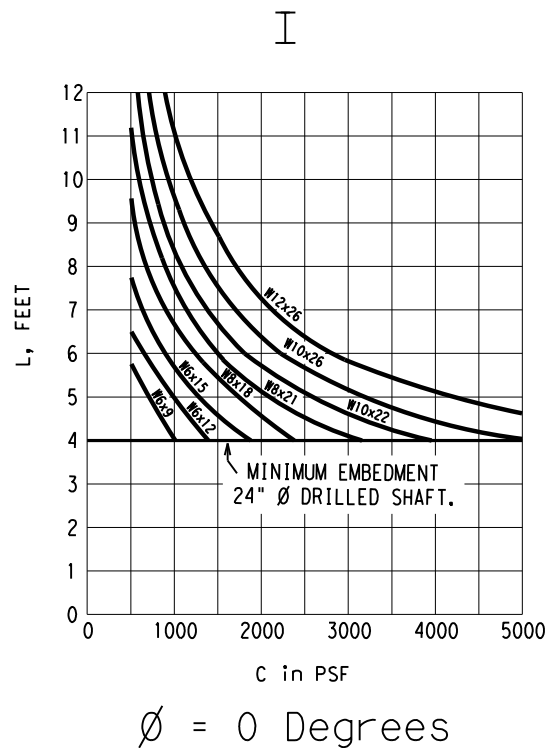
SMD (8W1) - 08

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1-82	5-01	9-08	6353 00	001	IH-2, ETC.
REVISIONS		CONTRACT	SECTION	JOB	HIGHWAY
		DIST	COUNTY	SHEET NO.	
		21	HIDALGO, ETC.	254	

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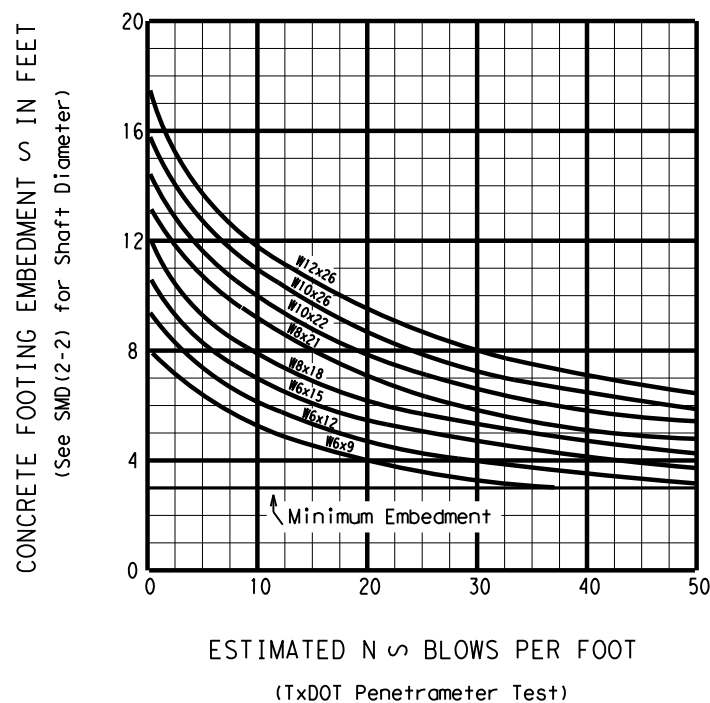
DRILLED CONCRETE FOOTING DEPTH CHART (COHFRIC DESIGN)

NOTE: THESE CHARTS MAY BE USED AS AN ALTERNATE TO THE CHART BELOW, PROVIDED THAT SOIL COHESION AND INTERNAL FRICTION (COHFRIC) DATA ARE AVAILABLE.

LEGEND:

L = Required embedment of concrete drilled shaft, in feet
C = Cohesive shear strength of soil, in psf
phi = Angle of internal friction of soil, in degrees

For values of C and phi which are intermediate to those on the charts, embedments may be determined by straight-line interpolation.



DRILLED CONCRETE FOOTING DEPTH CHART (TXDOT PENETROMETER DESIGN)

NOTE: ESTIMATED N SHOULD BE BASED AT APPROXIMATELY THE UPPER ONE-THIRD POINT OF THE DRILLED CONCRETE FOOTING BELOW THE GROUND LINE

Note:
1. Curves shown on this sheet are applicable for reinforced concrete footings only.

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Traffic Operations Division

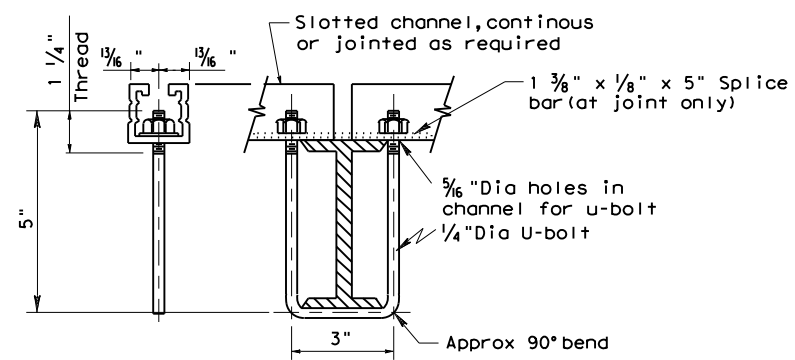
LARGE ROADSIDE SIGN SUPPORTS FOUNDATION WORKSHEET

SMD (8W2) - 08

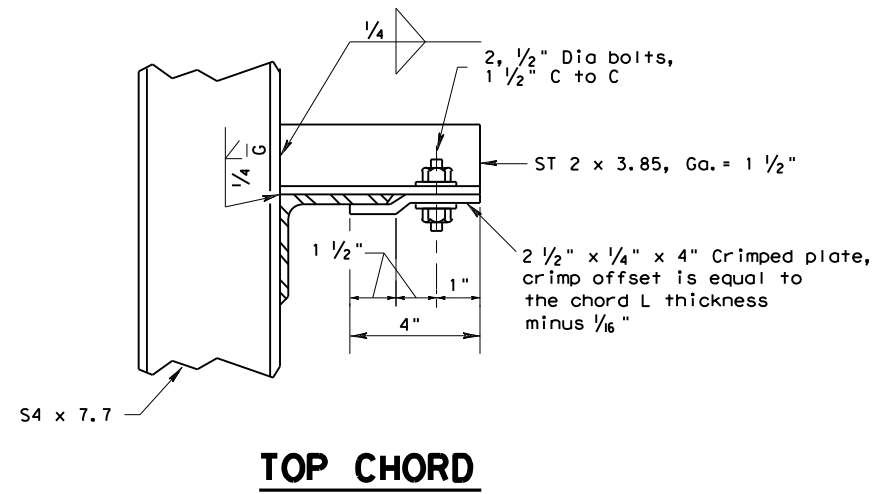
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REVISIONS					
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4-78	6353	00	001	IH-2, ETC.	
9-08	DIST	COUNTY		SHEET NO.	
	21	HIDALGO, ETC.		255	

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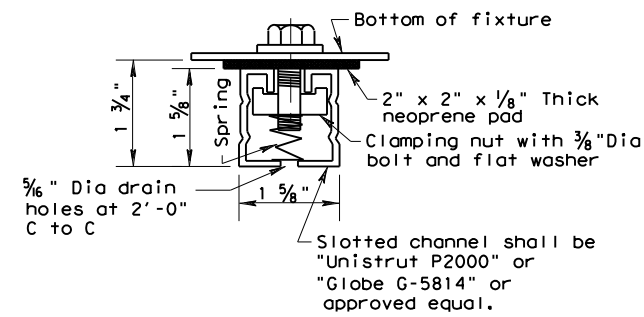
DATE:
FILE:



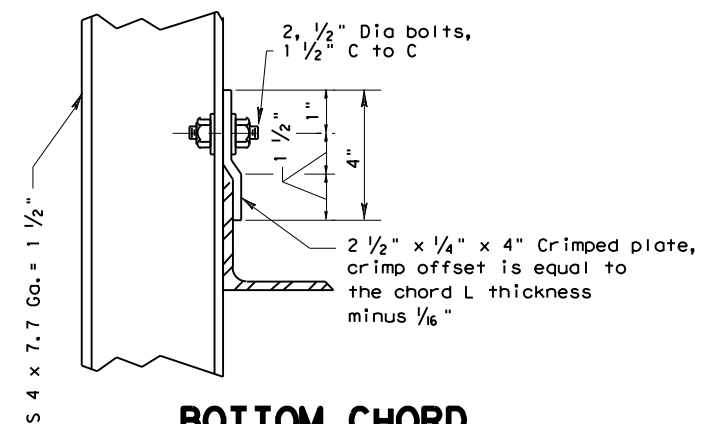
SECTION A-A



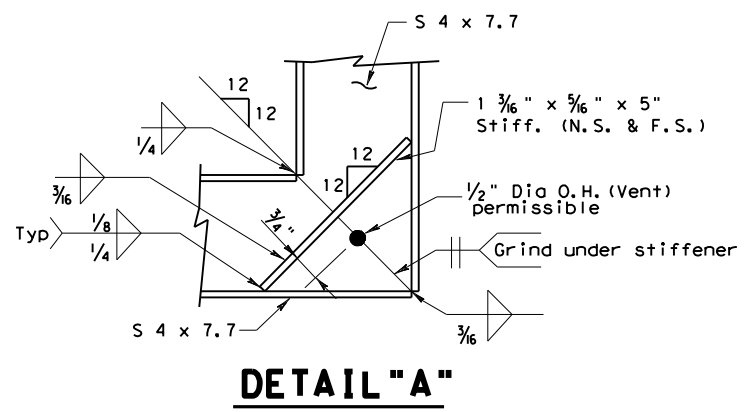
TOP CHORD



TYPICAL SLOTTED CHANNEL CONNECTED TO LIGHTING FIXTURE



BOTTOM CHORD SUPPORT TO TRUSS CONNECTION



DETAIL "A"

GENERAL NOTES:
 Design conforms to 1994 AASHTO Standard Specifications for Structural Supports for Highway Signs, Luminaires and Traffic Signals and Interim revisions thereto.
 Materials, fabrication, construction and erection shall conform to Item 654, "Sign Walkways" and with details, dimensions, and weld procedures shown herein. Structural steel shall conform with ASTM A36 unless noted otherwise.
 Bolts shall have hexagon heads and nuts and conform with ASTM A307.
 All parts shall be galvanized after fabrication per Item 445, "Galvanizing".

SHEET 2 OF 2

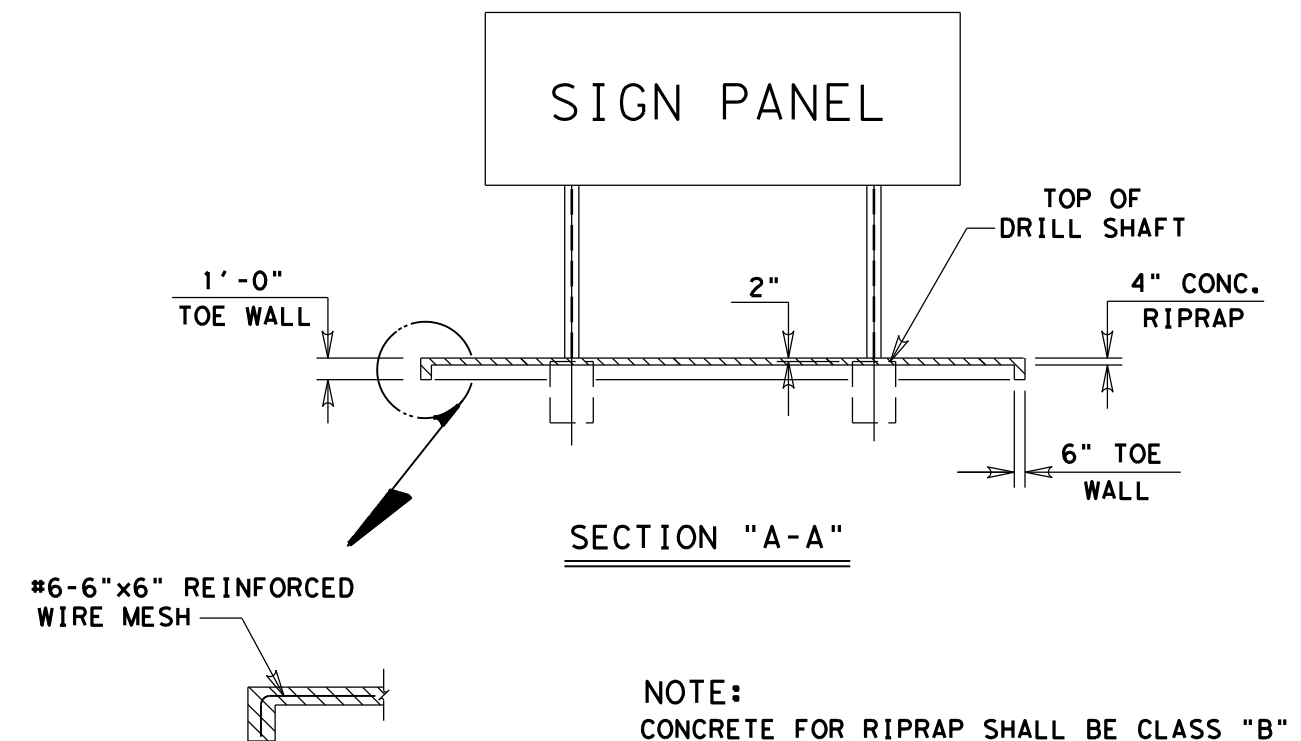


SUPPORT BRACKETS FOR SIGNS, WALKWAYS & LIGHTS SB(SWL-1)-14

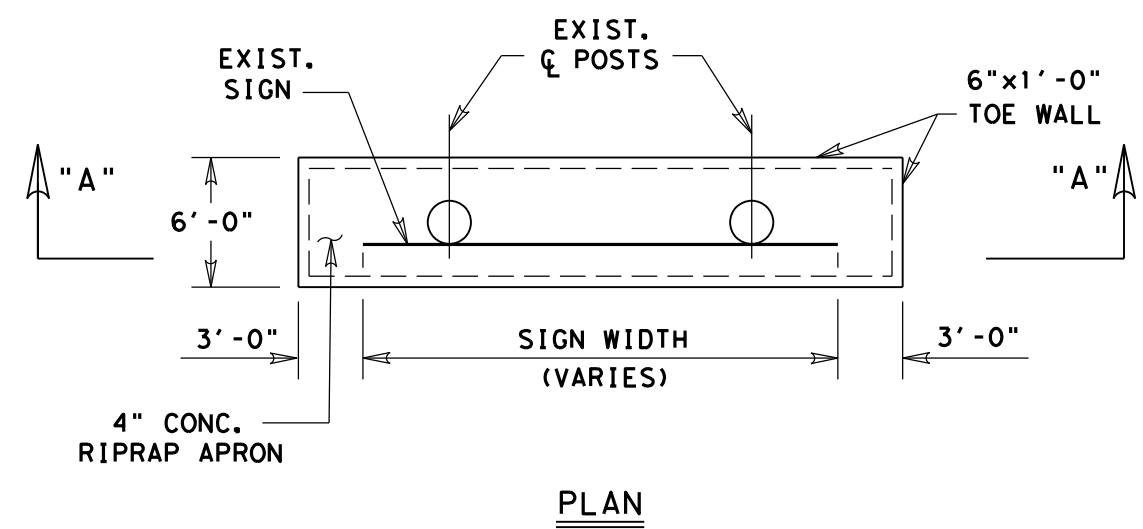
FILE: SWL-14.DGN	DN: TxDOT	CK: TxDOT	DW: TxDOT	CR: TxDOT
© TxDOT April 2014	CONT	SECT	JOB	HIGHWAY
REVISIONS	6353	00	001	IH-2, ETC.
DIST	COUNTY		SHEET NO.	
21	HIDALGO, ETC.		257	

CONCRETE RIPRAP APRON CHART VOLUMES FOR HIGHWAY SIGNS

SIGN WIDTHS	CONC. CU. YDS.	SIGN WIDTHS	CONC. CU. YDS.	SIGN WIDTHS	CONC. CU. YDS.
2'-0"		12'-6"	1.9	23'-0"	3.0
2'-6"		13'-0"	2.0	23'-6"	3.0
3'-0"		13'-6"	2.0	24'-0"	3.1
3'-6"		14'-0"	2.1	24'-6"	3.1
4'-0"		14'-6"	2.1	25'-0"	3.2
4'-6"		15'-0"	2.2	25'-6"	3.2
5'-0"	1.2	15'-6"	2.2	26'-0"	3.3
5'-6"	1.3	16'-0"	2.3	26'-6"	3.3
6'-0"	1.3	16'-6"	2.3	27'-0"	3.4
6'-6"	1.4	17'-0"	2.4	27'-6"	3.4
7'-0"	1.4	17'-6"	2.4	28'-0"	3.5
7'-6"	1.5	18'-0"	2.5	28'-6"	
8'-0"	1.5	18'-6"	2.5	29'-0"	
8'-6"	1.6	19'-0"	2.6	29'-6"	
9'-0"	1.6	19'-6"	2.6	30'-0"	
9'-6"	1.7	20'-0"	2.7	30'-6"	
10'-0"	1.7	20'-6"	2.7	31'-0"	
10'-6"	1.8	21'-0"	2.8	31'-6"	
11'-0"	1.8	21'-6"	2.8	32'-0"	
11'-6"	1.9	22'-0"	2.9	32'-6"	
12'-0"	1.9	22'-6"	2.9	33'-0"	



NOTE:
CONCRETE FOR RIPRAP SHALL BE CLASS "B" AND SHALL BE REINFORCED AS SPECIFIED IN GENERAL NOTES FOR ITEM 432 "RIPRAP".



CONCRETE RIPRAP FOR SIGN MULTIPLE POST GROUND MOUNTS

TEXAS DEPARTMENT OF TRANSPORTATION
**TYPICAL SIGN
RIPRAP DETAILS**

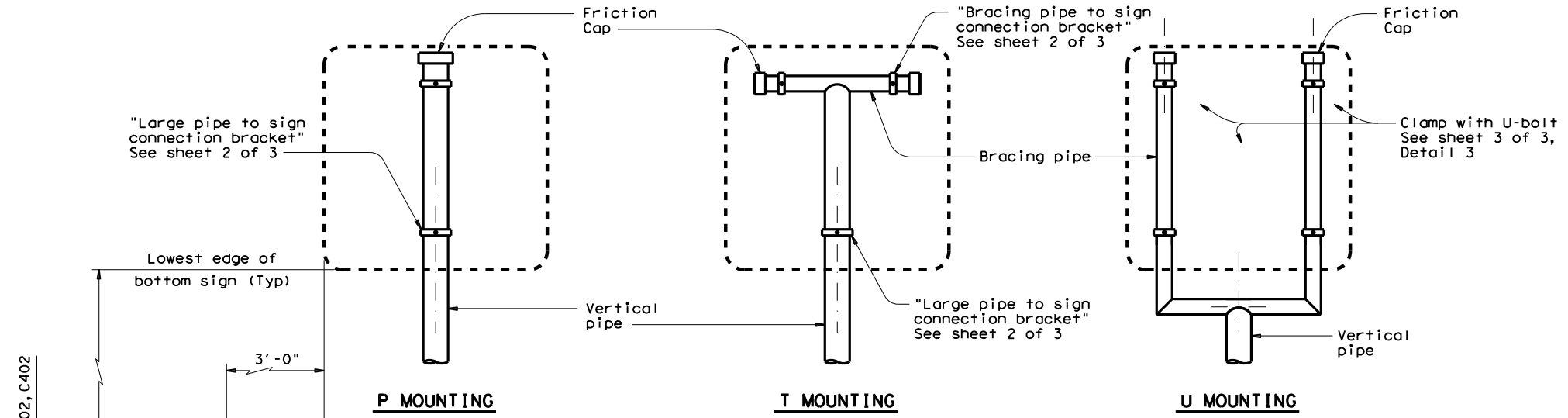
SHEET 1 OF 1

DN: LSJ	DRAWING	DATE	FILE NO.	STATE	STATE PROJECT NO.	SHEET NO.
CK DN: RDG	ORIGINAL	SEP. 2020	6	TEXAS		258
DW: LSJ				COUNTY	CONTROL NO.	SECTION NO.
CK DW: RDG				PHARR	HIDALGO, ETC. 6353	00 001

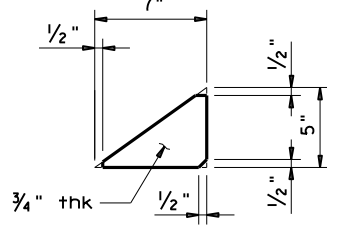
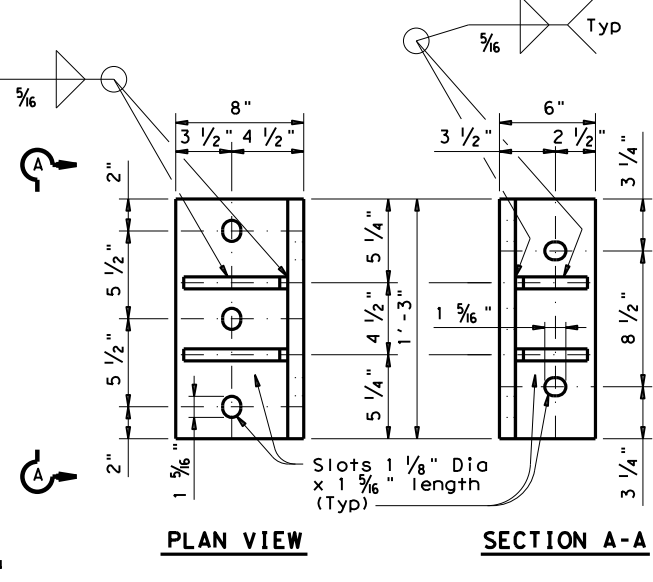
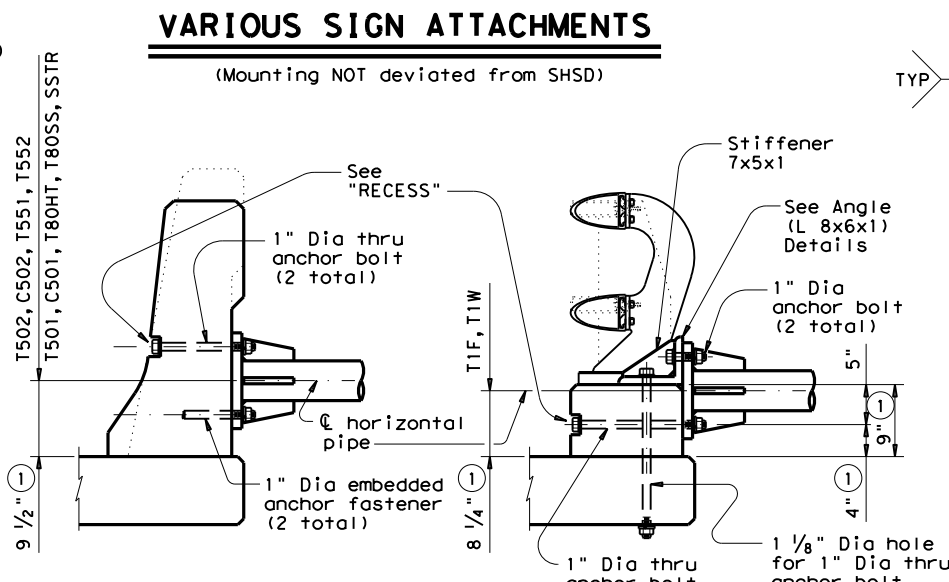
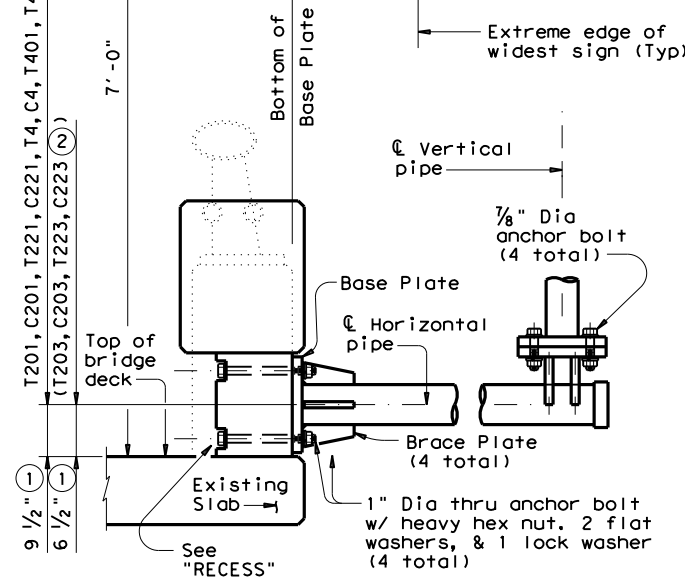
HIGHWAY NO. IH-2
ETC.

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DATE: FILE:

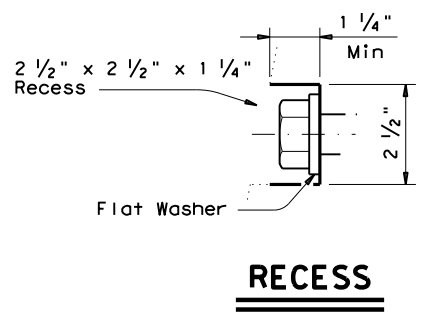


VARIOUS SIGN ATTACHMENTS
(Mounting NOT deviated from SHSD)



ANGLE (L 8x6x1) DETAILS

LONGITUDINAL SECTION THROUGH RAILING & SIGN MOUNT



- ① Increase 2" for structure with overlay.
- ② Attached at center post.

PIPE SIZE AND THICKNESS			
Pipe Placement Design Wind Speed	Horizontal	Vertical	Bracing
90 mph	5" X-Strong (.375")	4" X-Strong (.337")	2 1/2" Standard (.203")
130 mph	6" X-Strong (.432")	5" X-Strong (.375")	3" X-Strong (.300")

GENERAL NOTES:
Design conforms to 2013 AASHTO Standard Specifications for Highway Signs, Luminaires, and Traffic Signals and Interim Specifications thereto. Design 3-second gust wind speeds of 90 mph and 130 mph with a 1.14 gust factor, and a wind importance factor of 1.0 (50-year mean recurrence interval) for the supporting structures. For mounting connection between sign panel and pipe, wind importance factors of 0.71 and 0.54, for 90 mph and 130 mph winds, respectively, are applied to adjust the wind speeds to a 10-year mean recurrence interval.

See standard sheet WV & IZ(LTS2013) for the boundaries of each design wind zone. All mounting shall be based on 130 mph wind speed design except when located in 90 mph wind zone. Maximum panel area is 30 sq. ft. Maximum design height is 50 ft, with design height defined as the distance between natural ground (average elevation of surrounding terrain) and the center of sign(s) at the mounting location.

Material for pipe shall be ASTM A53 Grade B, or A501. Structural steel plates shall be ASTM A36, A572 Grade 50, or A588. Bolts used to connect pipe and mounting bracket, and wind beam to sign panel shall be ASTM A307. Anchor bolts shall be ASTM A325 or A193 B7. Each anchor bolt shall be provided with 2 flat washers, 1 lock washer, and 1 heavy hex nut. All parts shall be galvanized in accordance with Standard Specifications Item 445, "Galvanizing".

Attach horizontal pipe at least 2'-0" from the edge of any nearby drain slot.

Contractor shall verify applicable field dimensions before fabrication. Holes drilled through the railing parapet wall shall be drilled with rotary (coring or masonry drill) type equipment. Percussion (star) drilling shall not be allowed. Anchorage for pipe attached to rail shall be placed using an anchoring system approved by the engineer. Installation of anchor fasteners including hole depth, diameter and material shall be in accordance with the manufacturers' recommendation.

Each embedded anchor fastener shall resist an allowable design loading (after applying the reduction factors of bolt spacing and bolt edge distance) of:

	130 mph	90 mph
Tension	12.5 kips	7.5 kips
Shear	9.0 kips	5.0 kips

Each anchoring system shall provide a capacity to resist the required tension and shear acting simultaneously.

For sign connection to mounting, shop drill holes on sign blank in accordance with the current Standard Highway Sign Designs for Texas (SHSD). Additional hole(s) needed to meet a stipulated-type mounting may be field drilled. For multi-sign or back-to-back signs mounting, the engineer shall determine the proper type which ensures each individual mounting meets requirements.

Refer to Standard sheets SMD(GEN), SMD(SLIP-2 and SMD(2-1) for details not covered here.

SHEET 1 OF 3

Texas Department of Transportation
Traffic Operations Division Standard

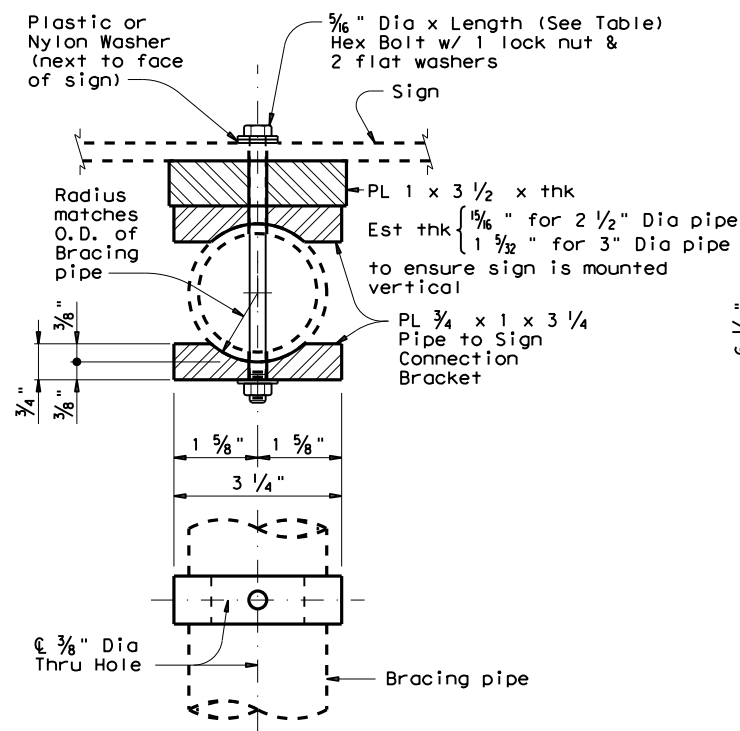
BRIDGE RAILING SIGN MOUNT DETAILS

SMD(BR-1) - 14

FILE: smdbr-14.dgn	DN: TxDOT	CK: TxDOT	DW: TxDOT	CK: TxDOT
© TxDOT August 2014	CONT	SECT	JOB	HIGHWAY
REVISIONS	6353	00	001	1H-2, ETC.
	DIST	COUNTY	SHEET NO.	
	21	HIDALGO, ETC.	259	

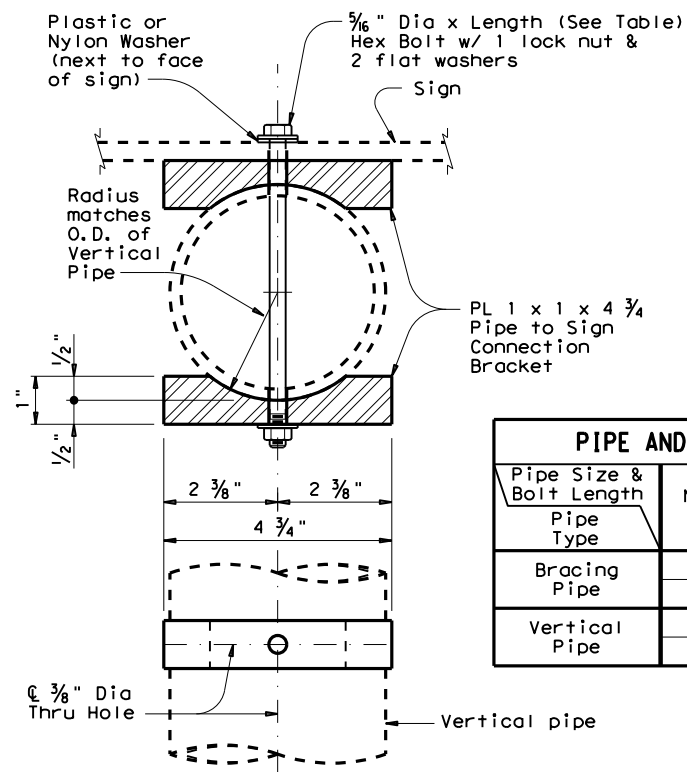
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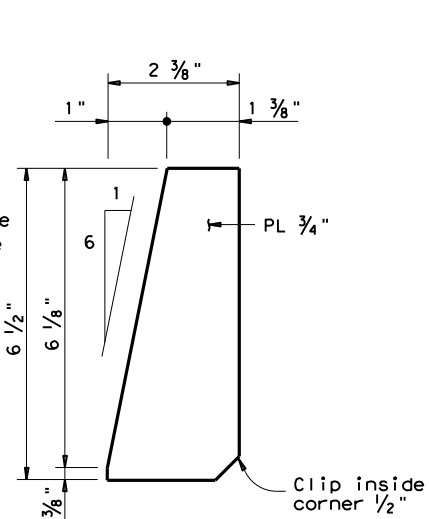
BRACING PIPE TO SIGN CONNECTION BRACKET DETAILS

(Showing T Mounting)

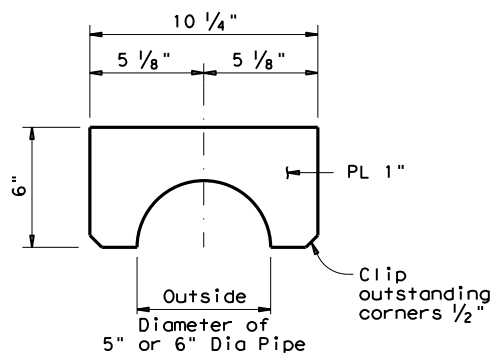


LARGE PIPE TO SIGN CONNECTION BRACKET DETAILS

(Showing P or T Mounting)

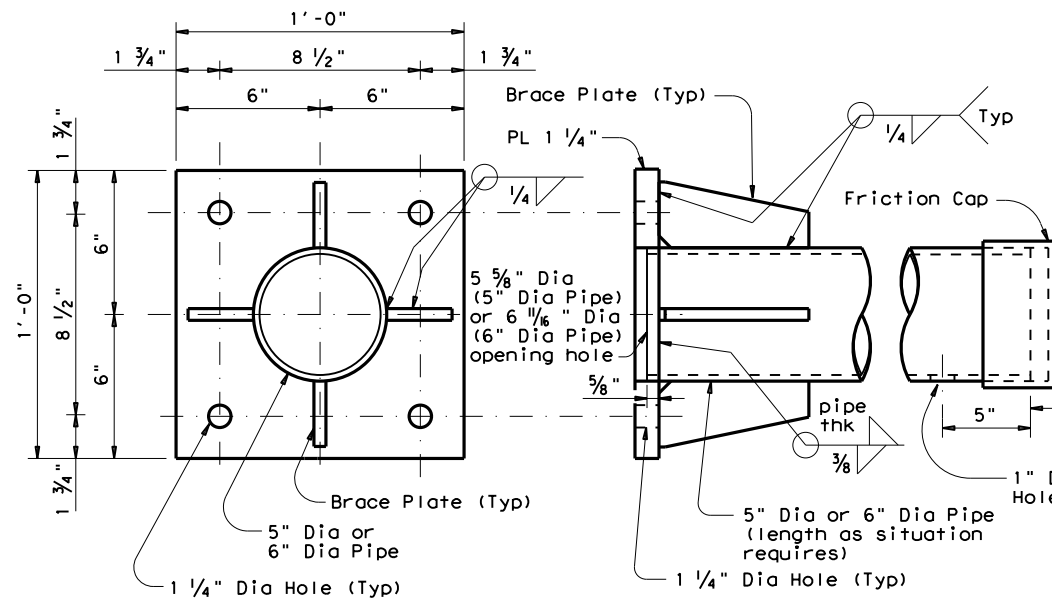


BRACE PLATE DETAILS

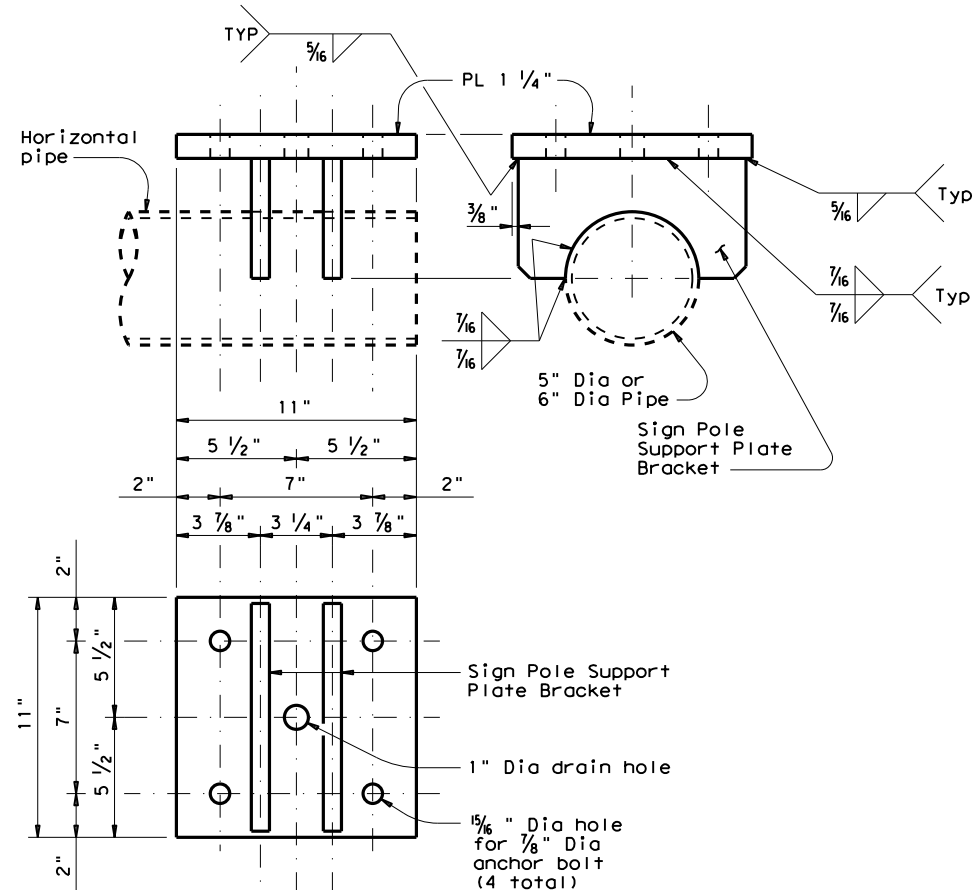


SIGN POLE SUPPORT PLATE BRACKET DETAILS

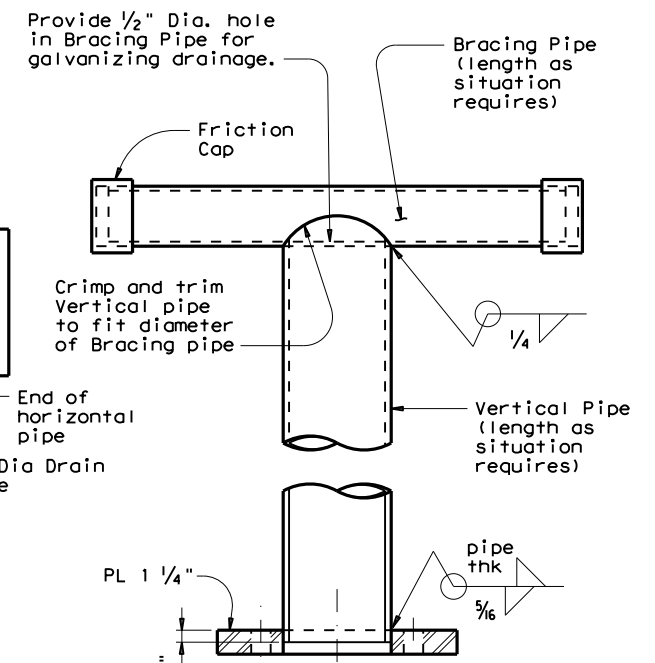
PIPE AND BOLT SPECIFICATIONS		
Pipe Size & Bolt Length	Nominal Pipe Dia (in.)	Bolt Length (in.)
Bracing Pipe	2 1/2	6
Vertical Pipe	3	7
Vertical Pipe	4	7
Vertical Pipe	5	8



BASE PLATE DETAILS



SIGN POLE SUPPORT PLATE DETAILS



SIGN POLE & POLE BASE PLATE DETAILS

(Showing only T Mounting)

SHEET 2 OF 3



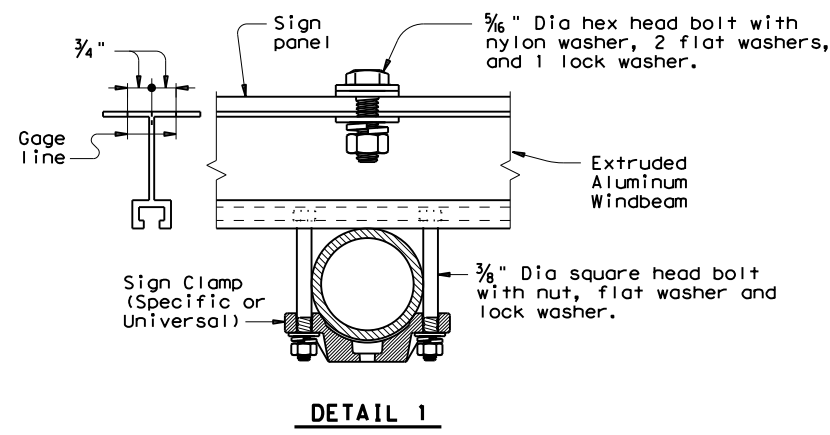
BRIDGE RAILING SIGN MOUNT DETAILS

SMD (BR-2) - 14

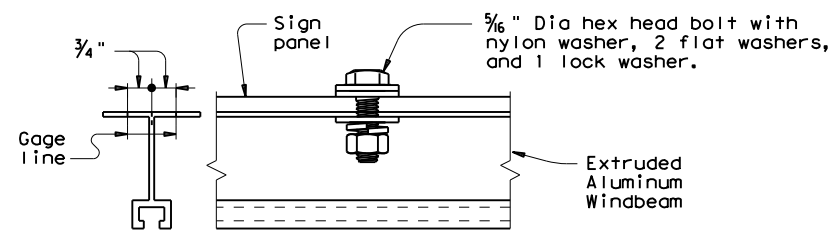
FILE: smdbr-14.dgn	DN: TxDOT	CK: TxDOT	DW: TxDOT	CK: TxDOT
© TxDOT August 2014	CONT	SECT	JOB	HIGHWAY
REVISIONS	6353	00	001	IH-2, ETC.
DIST	COUNTY		SHEET NO.	
21	HIDALGO, ETC.		260	

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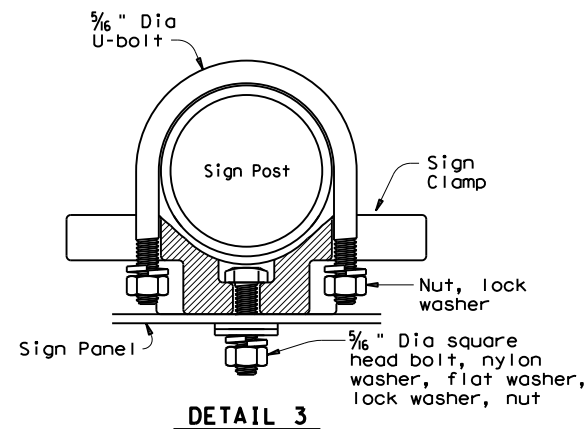
DATE: FILE:



DETAIL 1



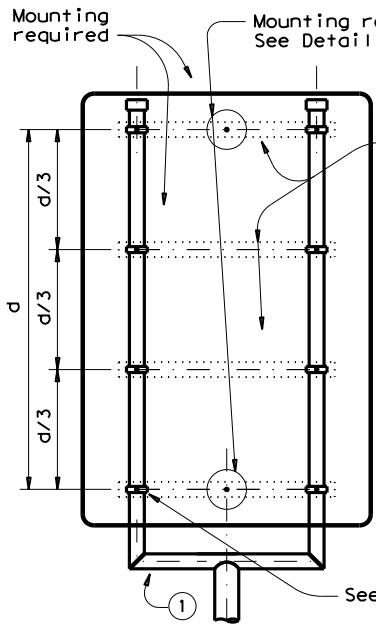
DETAIL 2



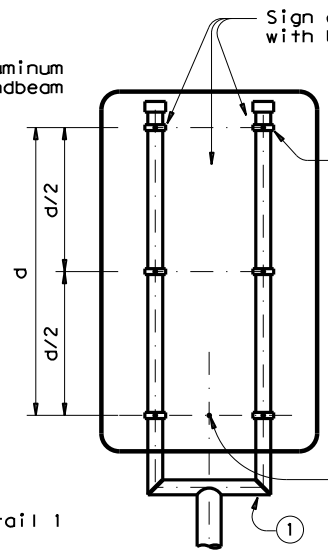
DETAIL 3

SIGN SHAPE	SQUARE			HORIZONTAL RECTANGLE			VERTICAL RECTANGLE			DIAMOND			OCTAGON			EQUILATERAL TRIANGLE			INTERSTATE SHIELD	PENTAGON (SCHOOL)		
	P	T	U	P	T	U	P	T	U	P	T	U	P	T	U	P	T	U	P	P	T	
Type of Sign Mounting on SHSD																						
Design Wind Speed																						
90 mph					(Type 23) 60"x48"			(Type 3) 72"x36" 78"x36"			(Type 2) 36"x48" (Type 32) 36"x60" 36"x72" 42"x60" 48"x54" 48"x60" 48"x72"			(Type 3) 60"x60"						(Type Special) 45"x36"		
130 mph	(Type 1) 30"x30" 36"x36"	(Type 3) 48"x48"		(Type 1) 36"x24" 36"x30"	(Type 23) 48"x42" 54"x42" 60"x30" 66"x36" 84"x24"		(Type 3) 72"x36" 78"x36"	(Type 1) 30"x36" 30"x42"		(Type 3) 36"x48" 36"x60" 36"x72" 42"x60" 48"x54" 48"x60"	(Type 3) 48"x60"	(Type 1) 36"x36"	(Type 3) 48"x48" 60"x60"			(Type 1) 48"x48"			(Type Special) 36"x36" 45"x36"			

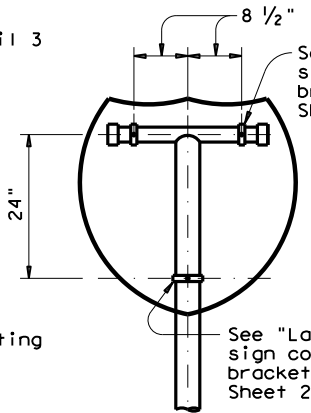
Notes: 1. Drill holes in addition to the hole pattern of the Standard Highway Sign Designs for Texas (SHSD) at specified locations to meet a stipulated-type mounting indicated in the parenthesis ().
 2. "Blank" in the above table indicates all other signs excluded from stipulated mounting shall be mounted in accordance with SHSD.
 3. In lieu of welding, the Fabricator may bend bracing pipe elbows if the following conditions are met:
 a. Spacing between vertical bracing pipes is equal to or greater than 2'-6".
 b. Bending radius is 12".
 c. The distance between the lowest clamp and centerline of horizontal bent pipe is 13" max.



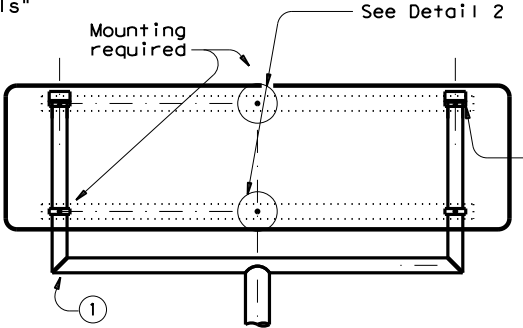
TYPE 4



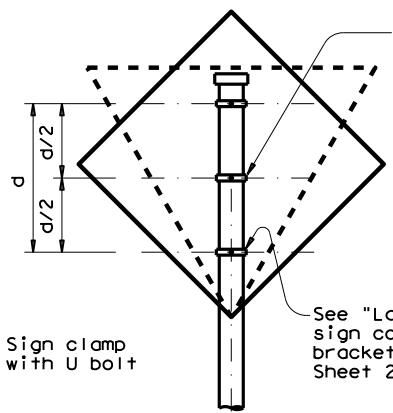
TYPE 32



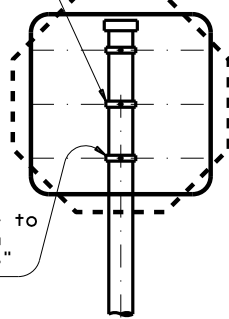
TYPE SPECIAL



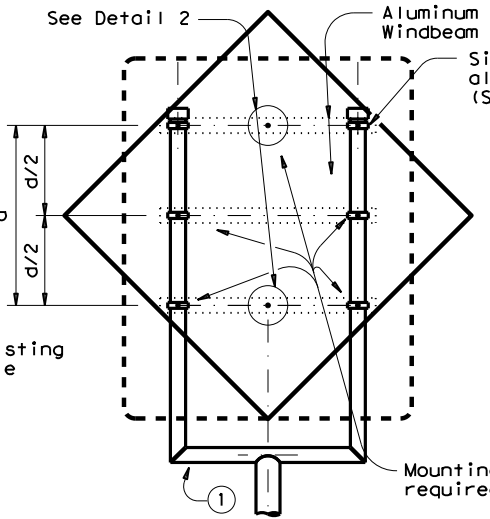
TYPE 23



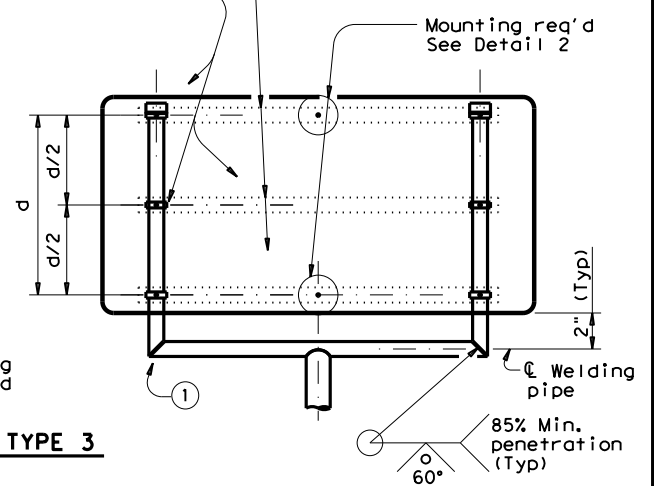
TYPE 1



TYPE 2



TYPE 3



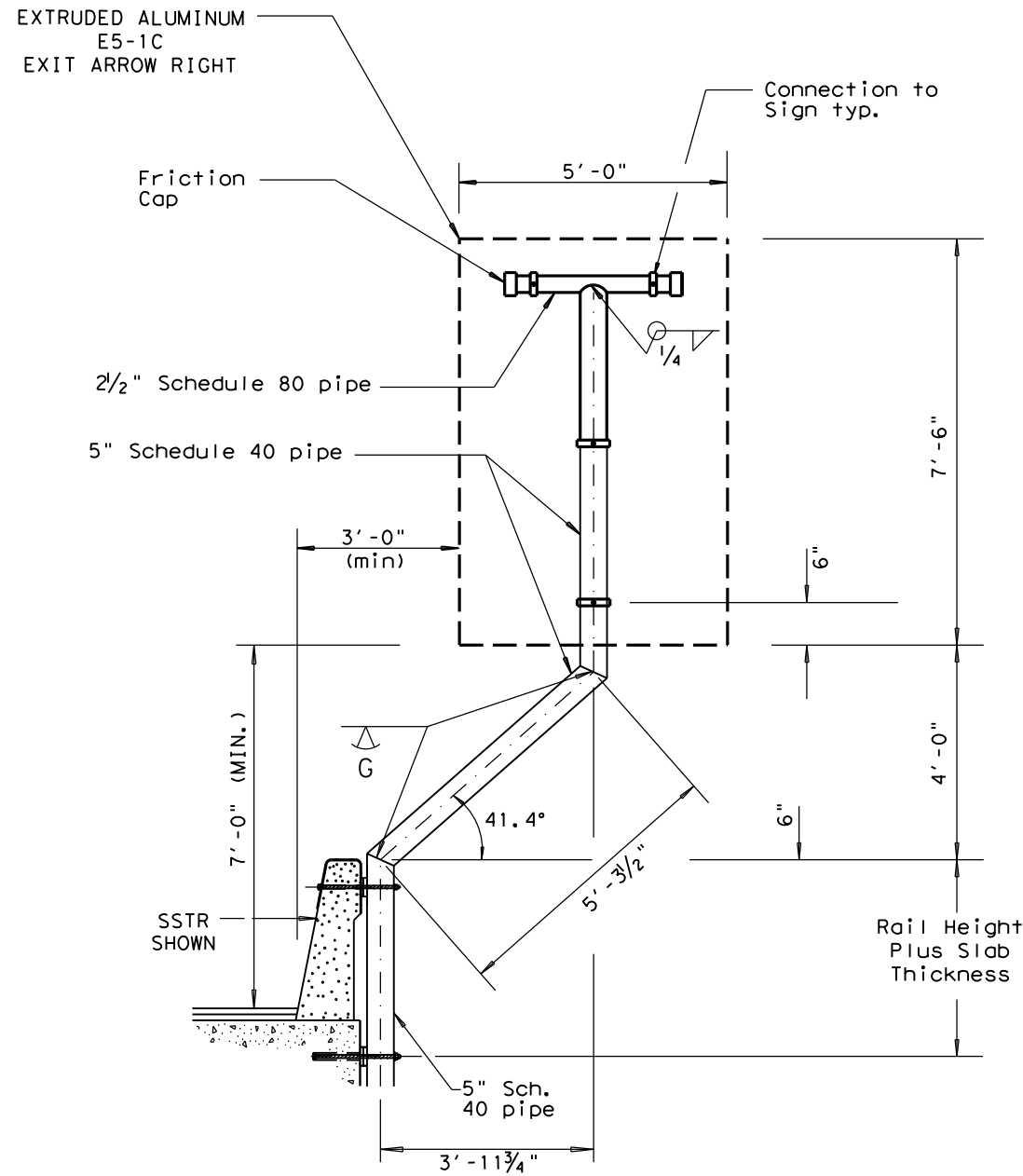
SHEET 3 OF 3

Texas Department of Transportation Traffic Operations Division Standard

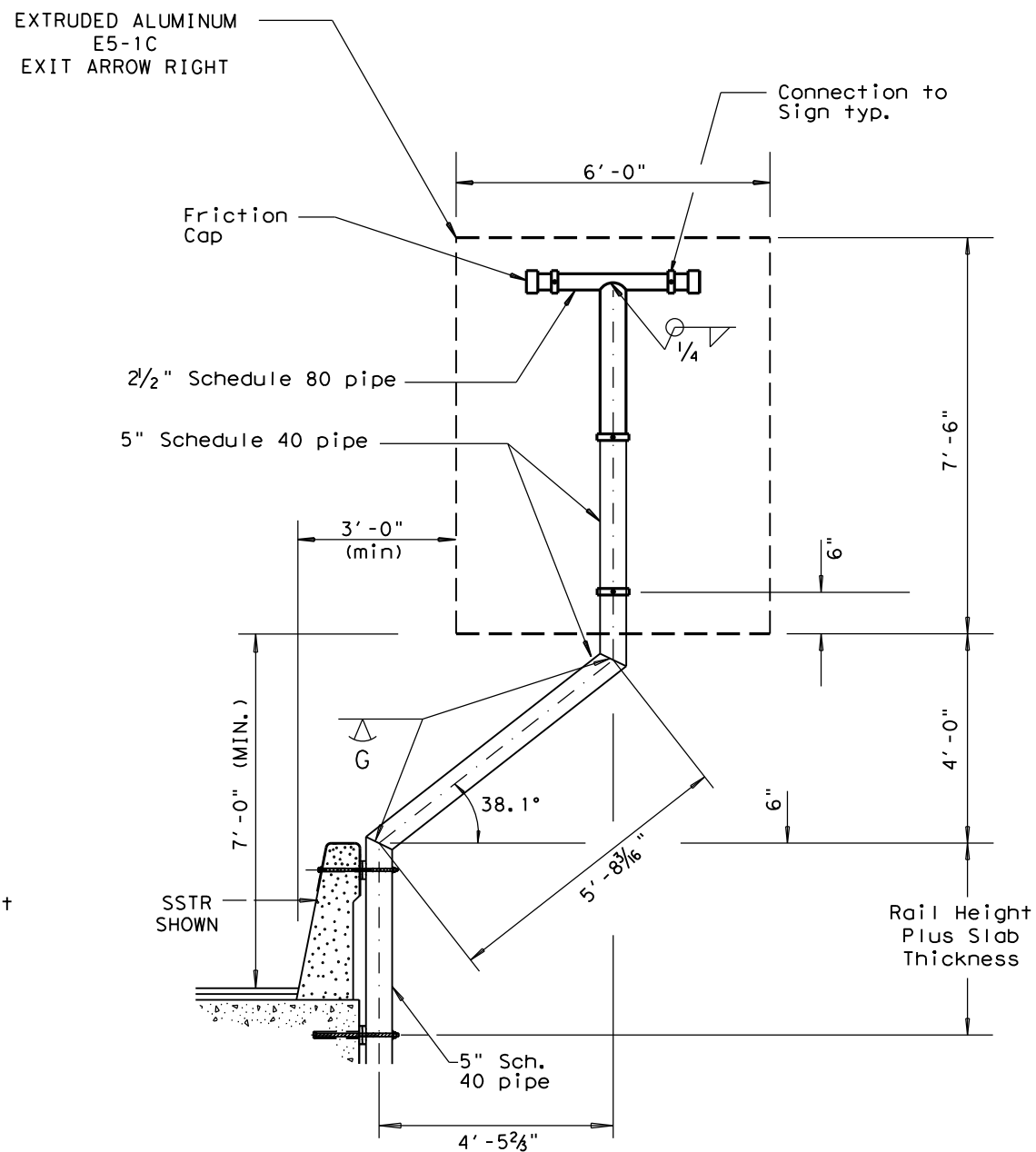
BRIDGE RAILING SIGN MOUNT DETAILS

SMD (BR-3) - 14

FILE: smdbr-14.dgn	DN: TxDOT	CK: TxDOT	DW: TxDOT	CK: TxDOT
© TxDOT August 2014	CONT	SECT	JOB	HIGHWAY
REVISIONS	6353	00	001	IH-2, ETC.
	DIST	COUNTY	SHEET NO.	
	21	HIDALGO, ETC.	261	



60" x 90"
SPECIAL SIGN MOUNT DETAIL



72" x 90"
SPECIAL SIGN MOUNT DETAIL

GENERAL NOTES

1. SIGN SUPPORTS SHALL MANUFACTURED IN ACCORDANCE SMD(RM)-98 General Notes:
2. FOR DETAILS ATTACHING SPECIAL SIGN MOUNT TO TRAFFIC RAIL SEE SHEET SMD(RM)-98
3. ALL WELDS SHALL BE IN ACCORDANCE WITH ITEM 441 (STEEL STRUCTURES) AND ITEM 448 (STRUCTURAL WELDING). ALL GALVANIZING SHALL BE IN ACCORDANCE WITH ITEM 442 (METAL FOR STRUCTURES).
4. WHERE THE GALVANIZING HAS BEEN SCRAPPED OFF FROM THE SHIPMENT, THE STEEL TUBING, ETC. SHALL BE PAINTED WITH A GALVANIZED COMPOUND MEETING FEDERAL SPECIFICATION ASTM A-780.

LEVELS DISPLAYED
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
ACC: 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32
33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48
49 50 51 52 53 54 55 56 57 58 59 60 61 62 63


Pharr District Standard

SPECIAL SIGN MOUNT DETAILS

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REVISIONS	FED. RD. DIV. NO.	FEDERAL AID PROJECT NO.	SHEET NO.
	6		263
	STATE	DIST.	COUNTY
	TEXAS	21	HIDALGO, ETC.
	CONT.	SECT.	JOB
	6353	00	001
			HIGHWAY NO.
			IH-2, ETC.

OMIT

 **TEXAS DEPARTMENT OF TRANSPORTATION**
IH-2
LARGE SIGN PROJECT

© 2020

DRAWING	DATE	FED. NO. DIV. NO.	STATE	FEDERAL PROJECT NO.	SHEET NO.		
ORIGINAL	SEP. 2020		TEXAS		265		
		STATE DIST. NO.	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	HIGHWAY NO.
		PHARR	HIDALGO,	6353	00	001	IH-2,
			ETC.				ETC.

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DATE: FILE:

APPLICABLE STANDARDS SHEETS

OVERHEAD SIGN BRIDGE STANDARDS:

- OSB-SE
- OSB-Z#
- OSB-Z#1
- HOSB-Z#
- HOSB-Z1L
- HOSB-Z#1
- OSBT
- OSBC
- OSBC-SC-Z#
- OSBS-SC
- OSB-FD
- OSB-FD-SC

CANTILEVER OVERHEAD SIGN SUPPORT STANDARDS:

- COSS-SE
- COSS-Z#-10
- HCOSS-Z#-10
- COSS-Z21-10
- COSS-Z#&Z#1-10
- COSSD
- COSSF
- COSS-FD

Note: # = Wind Zone number 1, 2, 3 or 4

HIGH MAST ILLUMINATION POLE STANDARDS:

- HMIP-98
- HMIF-98

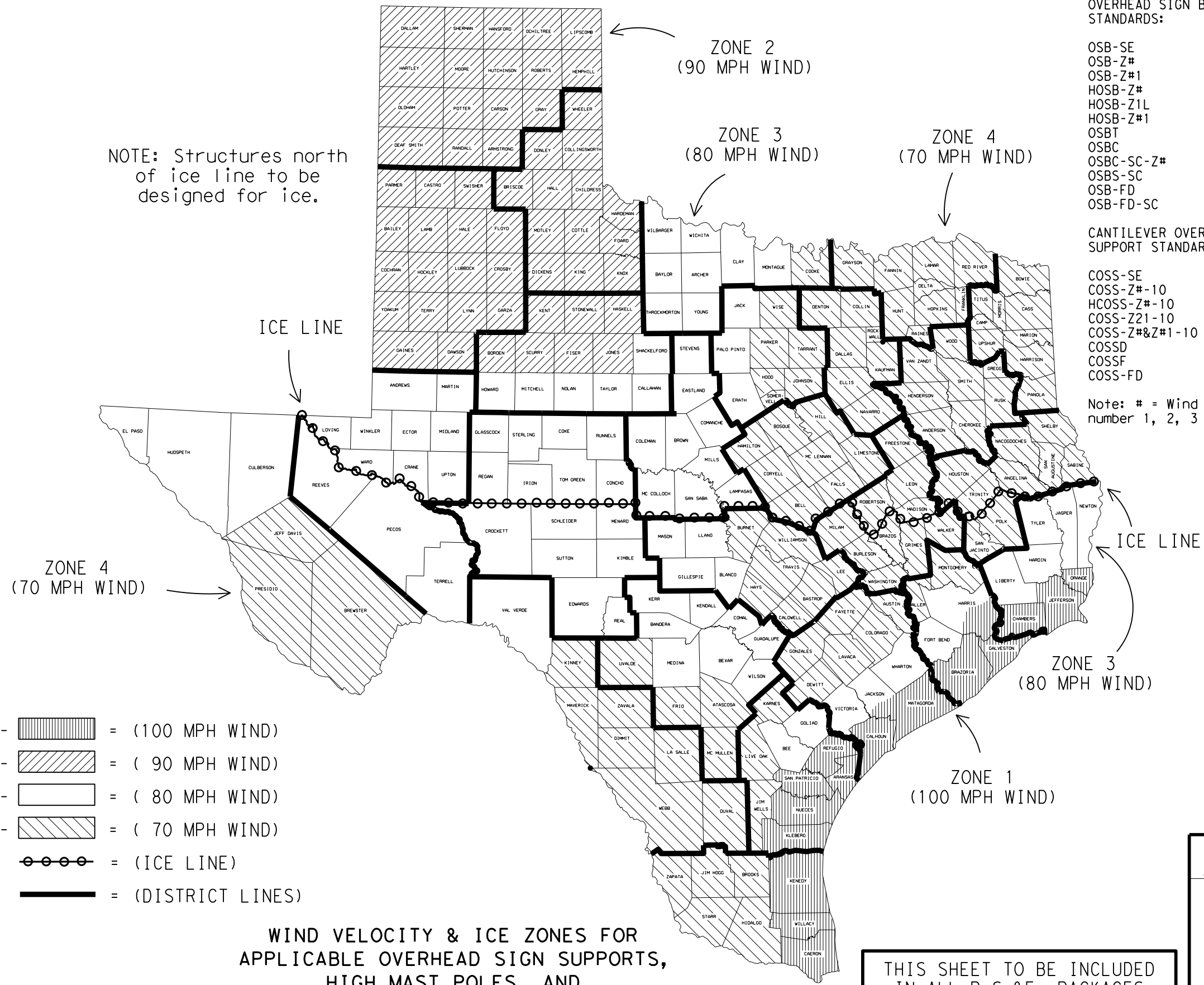
WALKWAYS AND BRACKETS STANDARDS:

- SWW
- SB(SWL-1)

TRAFFIC SIGNAL POLE STANDARDS:

- SP-80
- SP-100
- SMA-80
- SMA-100
- DMA-80
- DMA-100
- MA-C
- MAC(IILSN)
- MAD-D
- TS-FD
- LUM-A
- CFA
- LMA
- TS-C
- MA-DPD

NOTE: Structures north of ice line to be designed for ice.



LEGEND

- ZONE 1 - [diagonal lines] = (100 MPH WIND)
- ZONE 2 - [diagonal lines] = (90 MPH WIND)
- ZONE 3 - [white box] = (80 MPH WIND)
- ZONE 4 - [diagonal lines] = (70 MPH WIND)
- [dashed line with circles] = (ICE LINE)
- [solid black line] = (DISTRICT LINES)

WIND VELOCITY & ICE ZONES FOR APPLICABLE OVERHEAD SIGN SUPPORTS, HIGH MAST POLES, AND TRAFFIC SIGNAL POLES

Based on 50 Year Mean Recurrence Interval of Fastest Mile Wind Velocity at 33 feet height.

THIS SHEET TO BE INCLUDED IN ALL P.S.&E. PACKAGES CONTAINING ONE OR MORE OF THE APPLICABLE STANDARD SHEETS LISTED HEREON

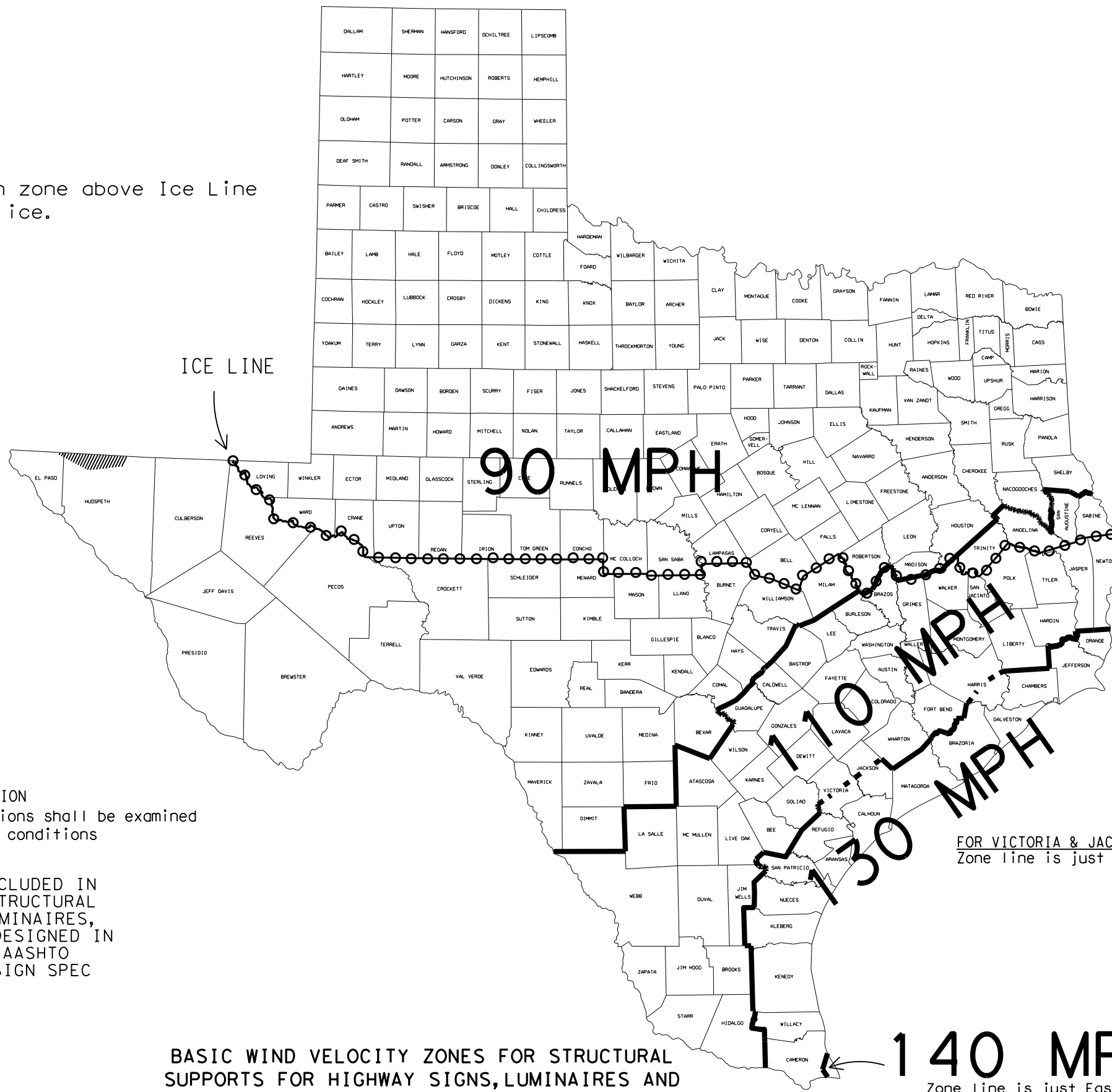
FOR HARRIS CO. ONLY
Zone line is just North of US 90, around on the North, West and South sides of IH 610 and down the West side of SH 288.

FOR JACKSON CO. ONLY
Zone line is just North of SH 616.

		Traffic Operations Division Standard	
<h3>WIND VELOCITY AND ICE ZONES</h3> <h3>WV & IZ-14</h3>			
FILE: windice.dgn	DN: TxDOT	CK: TxDOT	DW: TxDOT
© TxDOT April 1996	CONT	SECT	HIGHWAY
REVISIONS	6353	00	001
8-14-Added list of applicable standards, restricting use to structures designed for Fastest Mile wind speeds.	DIST	COUNTY	SHEET NO.
	21	HIDALGO, ETC.	266


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NOTE: Structures in zone above Ice Line to be designed for ice.



FOR HARRIS CO. ONLY
 Zone line is just North of US 90, around on the North, West and South sides of IH 610 and down the West side of SH 288.

FOR VICTORIA & JACKSON COUNTIES ONLY
 Zone line is just South of US 59.

 SPECIAL WIND REGION
 Special wind regions shall be examined for unusual wind conditions


THIS SHEET IS TO BE INCLUDED IN ALL P.S.&E.'s HAVING STRUCTURAL SUPPORTS FOR SIGNS, LUMINAIRES, AND/OR TRAFFIC SIGNALS DESIGNED IN ACCORDANCE WITH THE AASHTO 2001 THRU 2013 LTS DESIGN SPEC

BASIC WIND VELOCITY ZONES FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES AND TRAFFIC SIGNALS DESIGNED IN ACCORDANCE WITH THE AASHTO 2001 THRU 2013 LTS DESIGN SPEC

140 MPH
 Zone line is just East of both CO 1847 & FM 511

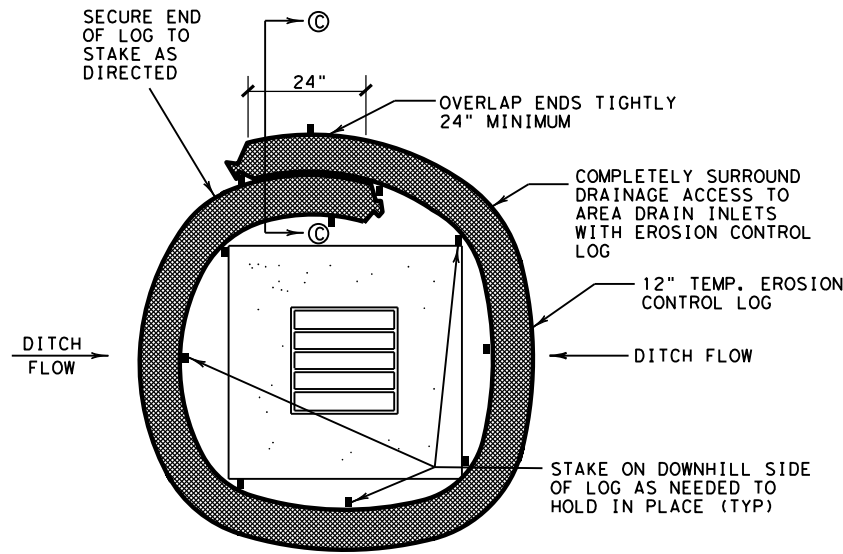
NOTE: AASHTO 2001 THRU 2013 LTS DESIGN SPEC = AASHTO Standard Specifications for Structural Supports for Highway Signs, Luminaires and Traffic Signals, 4th thru 6th Edition

Values are nominal design 3-sec gust wind speeds in mph at 33 ft above ground for Exposure C category. (50-year mean recurrence interval)

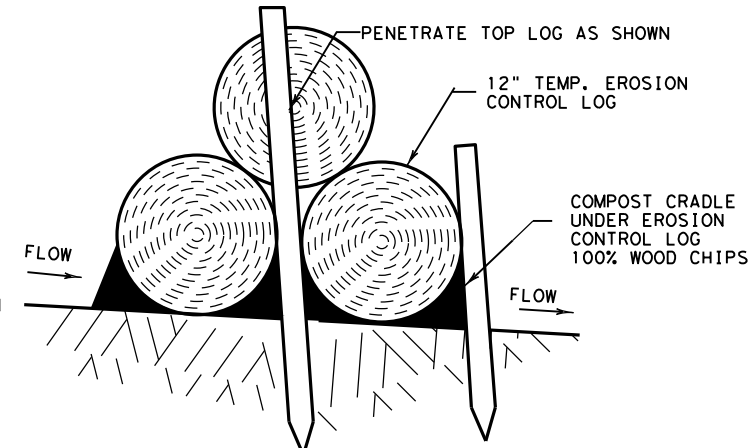
 Texas Department of Transportation		Traffic Operations Division Standard	
WIND VELOCITY AND ICE ZONES (AASHTO 2001-2013 LTS DESIGN SPEC) WV & IZ(LTS2013)-14			
FILE: I1s2013.dgn	DN: TxDOT	CK: TxDOT	DW: TxDOT
© TxDOT August 2014	CONT: 6353	SECT: 00	JOB: 001
REVISIONS	COUNTY		HIGHWAY
	21	HIDALGO, ETC.	267

DATE: FILE:

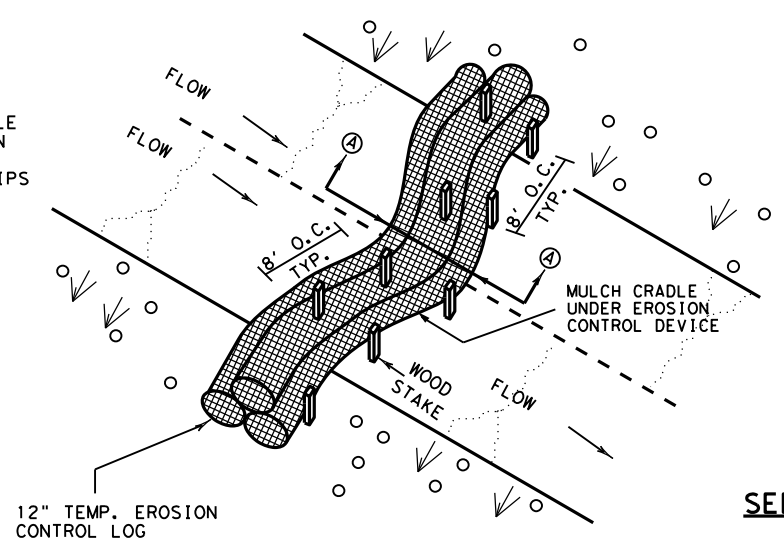
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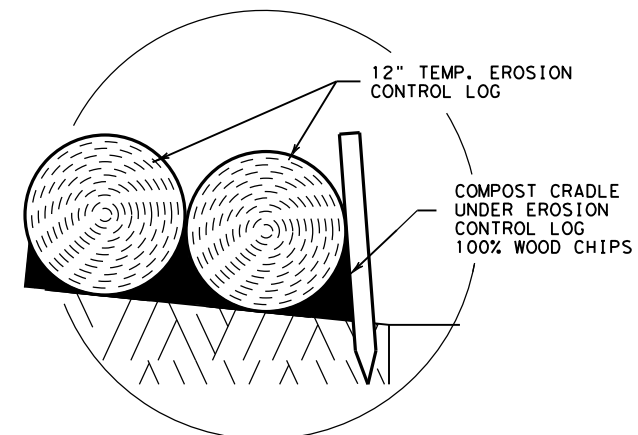
DROP INLET SEDIMENT TRAP
DI-ST



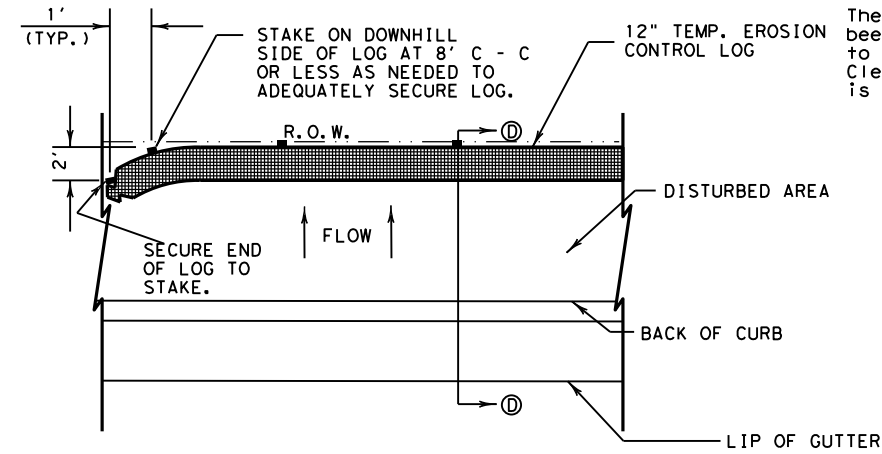
SECTION A-A DITCH LINE SEDIMENT TRAP A-A
DL-ST



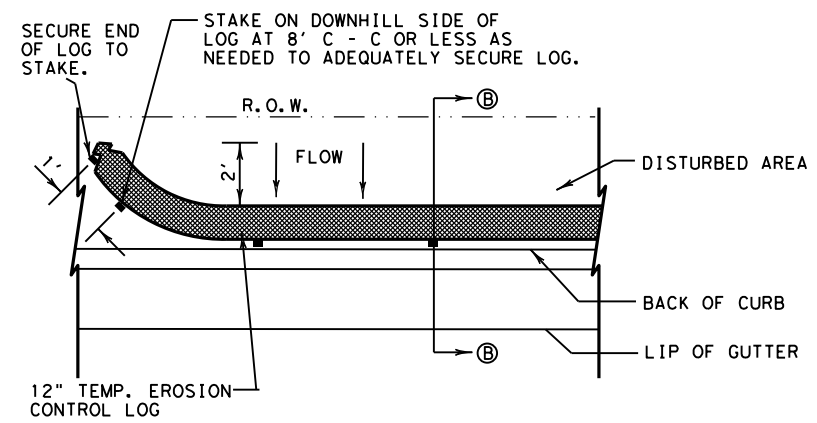
DITCH LINE SEDIMENT TRAP
DL-ST



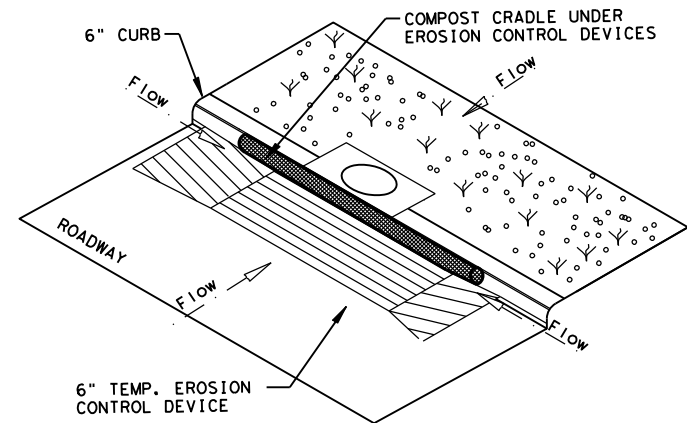
SECTION C-C OVERLAP WITH COMPOST CRADLE
OVERLAP DETAIL PLAN VIEW
NTS



PLAN VIEW
NTS
SECTION D-D RIGHT-OF-WAY SEDIMENT TRAP
ROW-ST



PLAN VIEW
NTS
SECTION B-B BACK OF CURB INLET SEDIMENT TRAP
BOCI-ST



SECTION B-B CURB INLET SEDIMENT TRAP
CI-ST

PLANS SHEET LEGEND

- DI-ST DROP INLET SEDIMENT TRAP
- DL-ST DITCH LINE SEDIMENT TRAP
- BOCI-ST BACK OF CURB INLET SEDIMENT TRAP
- ROW-ST RIGHT OF WAY SEDIMENT TRAP
- CI-ST CURB INLET SEDIMENT TRAP

SEDIMENT BASIN & TRAP USAGE GUIDELINES

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

Traps: the drainage area for a sediment trap should not exceed 5 acres. The trap capacity should be 1800 CF/Acre (0.5" over the drainage area).

Sediment traps should be placed in the following locations:

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

The trap should be cleaned when the capacity has been reduced by 1/2 or the sediment has accumulated to a depth of 1', whichever is less. Cleaning and removal of accumulated sediment deposits is incidental and will not be paid for separately.

GENERAL NOTES

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

LEVELS DISPLAYED
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32
33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48
49 50 51 52 53 54 55 56 57 58 59 60 61 62 63

PHARR DISTRICT STANDARD

Texas Department of Transportation
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**TEMPORARY EROSION CONTROL LOGS
TECL-17 (PHR)**

FED. RD. DIV. NO. 6	PROJECT NO.		HIGHWAY NO. IH-2, ETC.
STATE TEXAS	DISTRICT PHARR	COUNTY HIDALGO, ETC.	SHEET NO. 268
CONTROL 6353	SECTION 00	JOB 001	

During the planning phase of project development, the following Environmental Permits, Issues and Commitments have been developed during coordination with resource agencies, local governmental entities and the general public. Any change orders and/or deviations from the final design must be reported to the Engineer prior to the commencement of construction activities as additional environmental clearances may be required.

I. Clean Water Act, Section 402; Stormwater Pollution Prevention

Action Items Required : No Action Required

- 1. The contractor must implement the SW3P by installing Best Management Practices (BMPs) as indicated in the construction plans and maintained appropriately throughout construction. BMPs must be in place prior to the start of construction. The SW3P may need to be revised as necessary as construction progresses.
- 2. For all construction PSL's off the ROW, the contractor must certify compliance with all applicable laws, rules and regulations pertaining to the preservation of cultural resources, natural resources and the environment.
- 3. Based on the acreage of impact, select the appropriate box below:
 - This project will disturb less than 1 acre of soil and is not part of a larger common plan of development; therefore, a NOI and TPDES Site Notice are not required for this project.
 - or
 - This project will disturb equal to or more than 1 acre of soil but less than 5 acres; therefore a NOI is not required but a TPDES Site Notice is required. The Construction Site Notice (CSN) is required to be posted at the construction site in a publicly accessible location for review by the public, TCEQ, EPA and other Inspectors.
 - or
 - This project will disturb equal to or more than 5 acres of soil and will require a NOI and TPDES Site Notice. The NOI and Site Notice are required to be posted at the construction site in a publicly accessible location.
- 4. Need to address MS4 requirements (Cameron & Hidalgo Counties only) MS4 requirements not needed

II. Clean Water Act, Sections 401 and 404 Compliance

Action Items Required : No Action Required

- 1. Filling, dredging or excavating in any water bodies, rivers, creeks, streams, wetlands or wet areas is prohibited unless specified in the USACE permit and approved by the Engineer. The contractor shall adhere to all agreements, mitigation plans, and BMPs required by the NWP as regulated by the USACE.

The Contractor must adhere to all of the terms and conditions associated with the following permit(s):

- No Permit Required
- Nationwide Permit 14 - PCN not Required (less than 1/10th acre waters or wetlands affected)
- Nationwide Permit 14 - PCN Required (1/10th to <1/2 acre, 1/3 in tidal waters)
- Individual 404 Permit Required
- Other Nationwide Permit Required: NWP# _____

- 2. The contractor is responsible for obtaining new or revised Section 404 permit(s) for Contractor initiated changes in construction methods that change Impacts To Waters Of The U.S., including wetlands. The Contractor will ensure that the water quality of the State will be maintained and not degraded.

- 3. Best Management Practices for applicable Section 401 General Conditions:

General Condition 12 - Categories I and II BMPs required

Category I (Erosion Control)

- Temporary Vegetation
- Blankets, Matting
- Mulch
- Sodding
- Interceptor Swale
- Diversion Dike
- Erosion Control Compost
- Mulch Filter Berms and/or Socks
- Compost Filter Berms and/or Socks
- Compost Blankets

Category II (Sedimentation Control)

- Silt Fence
- Rock Berm
- Triangular Filter Dike
- Sand Bag Berm
- Hay (Straw) Bale Dike
- Brush Berms
- Sediment Basins
- Erosion Control Compost
- Mulch Filter Berms and/or Socks
- Compost Filter Berms and/or Socks
- Stone Outlet Sediment Traps

General Condition 21 - Category III BMPs required

Category III (Post-Construction TSS Control)

- Vegetative Filter Strips
- Retention/Irrigation
- Extended Detention Basin
- Constructed Wetlands
- Wet Basins
- Grassy Swales
- Vegetation-Lined Ditches
- Erosion Control Compost
- Mulch Filter Berms and/or Socks
- Compost Filter Berms and/or Socks
- Sand Filter Systems
- Sedimentation Chambers

II. Clean Water Act, Sections 401 and 404 Compliance - Continued:

- 4. The Contractor's designated and qualified Contractor Responsible Person Environmental (CRPe) will monitor the project site daily to ensure compliance with SW3P and TPDES General Permit TXR 150000. Daily Monitoring Reports shall be provided to TxDOT within 48 hours, in accordance with Item 506.3.1.
- 5. Other Project Specific Actions:

III. Cultural Resources

Action Items Required : No Action Required

- 1. Refer to the 2014 TxDOT Standard Specifications For Construction And Maintenance Of Highways, Streets, And Bridges, Item 7.7.1., in the event historical issues or archeological artifacts are found during construction. Upon discovery of archeological artifacts (bones, burnt rock, flint, pottery, etc.) cease work in the immediate area and contact the Engineer immediately.
- 2. Other Project Specific Actions:

IV. Vegetation Resources

Action Items Required : No Action Required

- 1. In accordance with the 2014 TxDOT Standard Specifications; Item 164 - Seeding For Erosion Control; provide and install temporary or permanent seeding for erosion control as shown on the plans or as directed by the Engineer for all seeding and replanting of right of way where possible. (Required for Urban Settings)
- 2. In accordance with Executive Order 13112 on invasive species and the Executive Memorandum on Beneficial Landscaping, native species of plants shall be used for all seeding and replanting of right of way where possible for rural roadways. (Required for Rural Settings)
- 3. Preserve vegetation where possible throughout the project and minimize clearing, grubbing and excavation within stream banks, bed and approach sections.
- 4. Other Project Specific Actions:

Pharr District Contact No. 956-702-6100

Revised 01/30/2017

List of Abbreviations

BMP: Best Management Practice	NWP: Nationwide Permit
CGP: Construction General Permit	PCN: Pre-Construction Notification
CRPe: Contractor Responsible Person Environmental	PSL: Project Specific Location
DSHS: Texas Department of State Health Services	SPCC: Spill Prevention Control and Countermeasure
FEMA: Federal Emergency Management Agency	SW3P: Storm Water Pollution Prevention Plan
FHWA: Federal Highway Administration	TCEQ: Texas Commission on Environmental Quality
MOA: Memorandum of Agreement	THC: Texas Historical Commission
MOU: Memorandum of Understanding	TPDES: Texas Pollutant Discharge Elimination System
MS4: Municipal Separate Stormwater Sewer System	TPWD: Texas Parks and Wildlife Department
MSAT: Mobile Source Air Toxic	TxDOT: Texas Department of Transportation
MBTA: Migratory Bird Treaty Act	T&E: Threatened and Endangered Species
NOI: Notice of Intent	USACE: U.S. Army Corp of Engineers
NOT: Notice of Termination	USFWS: U.S. Fish and Wildlife Service



ENVIRONMENTAL PERMITS, ISSUES AND COMMITMENTS (EPIC)

SHEET 1 OF 2

FED. RD. DIV. NO.	PROJECT NO.			HIGHWAY NO.
6				IH-2,
STATE	DISTRICT	COUNTY		ETC.
TEXAS	PHR	HIDALGO, ETC.		SHEET NO.
CONTROL	SECTION	JOB		
6353	00	001		269

V. Federal Listed, and Proposed Threatened and Endangered Species, Critical Habitat, State Listed Species, Candidate Species and Migratory Birds

Action Items Required : No Action Required

- 1. Under the Migratory Bird Treaty Act (MBTA) of 1918, codified at 16 U.S.C. § 703-712 and as enforced by the USFWS, the proposed construction work will not remove active nests from bridges, trees, ground and other structures during migratory bird nesting season, (February 1st. through October 1st.). If the Contractor needs to perform work within the right of way during nesting season, a qualified Biologist shall conduct a survey to determine if active nests are present. If present, the Contractor shall maintain a buffer zone around the nest(s) as directed by the Biologist. The buffer zone will be protected from clearing and disturbance until such time as the Biologist has determined that the nest(s) is no longer active. Prior to the nesting season, existing bridges and culverts should be treated against migratory bird nesting by utilizing Bird Exclusion Methods. Bird Exclusion Methods should be monitored and maintained throughout the nesting season. Refer to Standard Bird Exclusion Details.
- 2. There is the potential for the presence of state-listed species & species of concern in the project area and state law prohibits the taking (incidental or otherwise) of state-listed species. Taking is defined as the collection, hooking, hunting, netting, shooting, or share by any means or devices. If any listed species are observed, cease work in the immediate area, do not disturb species or habitat and contact the Engineer immediately.
- 3. Other Project Specific Actions:
 - South Texas siren (Large Form)
 - Black-spotted newt
 - Wright's trichocoronis
 - Texas ayenia
 - Runyon's water-willow
 - St. Joseph's staff
 - Texas stonecrop
 - Vasey's adelia
 - Mexican mud-plantain
 - Western hog-nosed skunk
 - Green Island echeandia
 - Bailey's ballmoss

VI. Hazardous Materials on Contamination Issues

Action Items Required : No Action Required

General (applies to all projects):

Comply with the Hazard Communication Act (HCA) for personnel who will be working with hazardous materials by conducting safety meetings prior to beginning construction and making workers aware of potential hazards in the workplace. Ensure that all workers are provided with personal protective equipment appropriate for any hazardous materials used.

Obtain and keep on-site Material Safety Data Sheets (MSDS) for all hazardous products used on the project, which may include but are not limited to the following categories: Paints, acids, solvents, asphalt products, chemical additives, fuels and concrete curing compounds or additives. Provide protected storage, off bare ground and covered, for products which may be hazardous. Maintain product labelling as required by the HCA.

Maintain an adequate supply of on-site spill response materials as indicated in the MSDS. In the event of a spill, take immediate action to mitigate the spill as indicated in the MSDS and in accordance with safe work practices. Contact the TxDOT Pharr District Spill Coordinator immediately. The Contractor shall be responsible for the proper containment and cleanup of all product spills.

Contact the Engineer if any of the following are detected:

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

Any other evidence indicating possible hazardous materials or contamination discovered on site.

- 1. If potentially hazardous material and/or contaminated media (i.e.: soil, groundwater, surface water, sediment, building materials) are unexpectedly encountered during construction, assure that such materials and contamination are handled according to applicable federal and state regulations, cease work in the immediate area and contact the Engineer immediately.

VI. Hazardous Materials on Contamination Issues - Continued:

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

Yes No

If "No", then no further action required.
If "Yes", then TxDOT is responsible for completing an asbestos assessment/inspection.

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

Yes No

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

If "No", then TxDOT is still required to notify DSHS 15 working days prior to any scheduled demolition.

- 4. The Contractor is responsible for providing the date(s) for abatement activities and/or demolition with careful coordination between the Engineer and an Asbestos Consultant in order to minimize construction delays and subsequent claims.

VII. Other Environmental Issues

Action Items Required : No Action Required

- 1. Noise

Contractor shall make every reasonable effort to minimize construction noise through abatement measures such as work hour controls and proper maintenance of equipment mufflers.

- 2. Air

Contractor shall practice common dust control techniques such as surface chemical treatment or watering of unpaved road surfaces and vehicle speed reduction shall be implemented to minimize and prevent airborne dust during construction.

Contractor should minimize MSAT by utilizing measures to encourage use of EPA required cleaner diesel fuels, limits on idling, increase use of cleaner burning diesel engines, and other emission limitation techniques, as appropriate.

Pharr District Contact No. 956-702-6100

Revised 01/30/2017

List of Abbreviations

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ENVIRONMENTAL PERMITS, ISSUES AND COMMITMENTS (EPIC)

SHEET 2 OF 2

FED. RD. DIV. NO.	PROJECT NO.			HIGHWAY NO.
6	STATE	DISTRICT	COUNTY	IH-2, ETC.
TEXAS	PHR	HIDALGO, ETC.		SHEET NO.
CONTROL	SECTION	JOB		
6353	00	001		270

Date Printed: X-X-XX

SITE DESCRIPTION

PROJECT LIMITS: _____
 (Same as stated on the Title Sheet)

PROJECT SITE MAPS: _____
 *Project Location Map: Title Sheet (Sheet 1)

PROJECT DESCRIPTION: _____
 INSTALLATION, REMOVAL AND RELOCATION OF LARGE & SMALL GUIDE SIGNS.

MAJOR SOIL DISTURBING ACTIVITIES: _____
 INSTALLATION OF SIGN POSTS

TOTAL PROJECT AREA: _____ < 1 ACRE

TOTAL AREA TO BE DISTURBED: _____ < 1 ACRE

WEIGHTED RUNOFF COEFFICIENT: _____
 Before Construction: N/A
 After Construction: N/A

EXISTING CONDITION OF SOIL & VEGETATIVE _____
 area of existing grass/dirt.

NAME OF RECEIVING WATERS: _____
 ditches and curb and gutters that go to an outfall

ENDANGERED SPECIES, DESIGNATED CRITICAL HABITAT AND HISTORICAL PROPERTY:

A. No Endangered Species, Designated Critical Habitat or Historic Property has been found on this project site.

or

B. (Statement of What) has been found on this project site.
 (These stated name/names of found species and/or conditions must be same as stated within the project EPIC sheet, Sections - III, IV & V if any such is determined to exist within the limits of the project and/or adjacent properties and surrounding areas.)

Note: Designer shall supply statement A. or B. only.

The documentation satisfying TPDES Construction General Permit eligibility pertaining to the existence or of any protective action taken with regards to endangered species or designated critical habitat or historical property in this project area is contained in the project's Environmental Impact Study and can be viewed under the State Open Records Act at the address shown below:

TEXAS DEPARTMENT OF TRANSPORTATION
 PHARR DISTRICT HEADQUARTERS
 ATTN: ENVIRONMENTAL COORDINATOR
 600 W. EXPRESSWAY 83
 PHARR, TX 78577
 PHONE: 956-702-6100

EROSION AND SEDIMENT CONTROLS

SOIL STABILIZATION PRACTICES: (Select T = Temporary or P = Permanent, as applicable)

- | | |
|--|---|
| <input type="checkbox"/> TEMPORARY SEEDING | <input type="checkbox"/> PRESERVATION OF NATURAL RESOURCES |
| <input type="checkbox"/> MULCHING (Hay or Straw) | <input type="checkbox"/> FLEXIBLE CHANNEL LINER |
| <input type="checkbox"/> BUFFER ZONES | <input type="checkbox"/> RIGID CHANNEL LINER |
| <input type="checkbox"/> PLANTING | <input type="checkbox"/> SOIL RETENTION BLANKET |
| <input type="checkbox"/> SEEDING | <input type="checkbox"/> COMPOST MANUFACTURED COMPOST |
| <input type="checkbox"/> SODDING | <input checked="" type="checkbox"/> BIODEGRADABLE EROSION CONTROL SOCKS |
| <input type="checkbox"/> OTHER: (Specify Practice) | |

STRUCTURAL PRACTICES: (Select T = Temporary or P = Permanent, as applicable)

- | |
|---|
| <input type="checkbox"/> SILT FENCES |
| <input checked="" type="checkbox"/> BIODEGRADABLE EROSION CONTROL SOCKS |
| <input type="checkbox"/> HAY BALES |
| <input type="checkbox"/> ROCK FILTER DAMS |
| <input type="checkbox"/> DIVERSION, INTERCEPTOR, OR PERIMETER DIKES |
| <input type="checkbox"/> DIVERSION, INTERCEPTOR, OR PERIMETER SWALES |
| <input type="checkbox"/> DIVERSION DIKE AND SWALE COMBINATIONS |
| <input type="checkbox"/> PIPE SLOPE DRAINS |
| <input type="checkbox"/> PAVED FLUMES |
| <input type="checkbox"/> ROCK BEDDING AT CONSTRUCTION EXIT |
| <input type="checkbox"/> TIMBER MATTING AT CONSTRUCTION EXIT |
| <input type="checkbox"/> PIPE MATTING OR EQUAL AT CONSTRUCTION EXIT |
| <input type="checkbox"/> CHANNEL LINERS |
| <input type="checkbox"/> SEDIMENT TRAPS |
| <input type="checkbox"/> SEDIMENT BASINS |
| <input type="checkbox"/> STORM INLET SEDIMENT TRAP |
| <input type="checkbox"/> STONE OUTLET STRUCTURES |
| <input type="checkbox"/> CURBS AND GUTTERS |
| <input type="checkbox"/> STORM SEWERS |
| <input type="checkbox"/> VELOCITY CONTROL DEVICES |
| <input type="checkbox"/> OTHER: (Specify Practice) |

STORM WATER MANAGEMENT: N/A

STORM WATER MANAGEMENT ACTIVITIES: (Sequence of Construction)

- The order of activities will be as follows:
1. Install perimeter controls, clear R.O.W. on side where construction will take place, if necessary.
 2. Install Proposed large signs including foundations.
 3. Remove any drill cuttings and rake and even out remaining sediment.

NON-STORM WATER MANAGEMENT DISCHARGES:

Non-storm water discharges should be filtered, or held in retention basins, before being allowed to mix with storm water. These discharges consist of non-polluted ground water, spring water, foundation and/or footing drain water; and water used for dust control, pavement washing and vehicle wastewater containing no detergents.

OTHER REQUIREMENTS & PRACTICES

OTHER EROSION AND SEDIMENT CONTROLS:

MAINTENANCE: All erosion and sediment controls will be maintained in good working order. If a repair is necessary, it will be done at the earliest date possible, but no later than 7 calendar days after the surrounding exposed ground has dried sufficiently to prevent further damage from heavy equipment. The areas adjacent to creeks and drainage ways shall have priority followed by devices protecting storm sewer inlets.

INSPECTION: For areas of the construction site that have not been finally stabilized, area used for storage of materials, structural control measures, and locations where vehicles enter or exit the site, personnel provided by the permittee and familiar with the SW3P must inspect disturbed areas at least once every fourteen (14) calendar days and within twenty-four (24) hours of the end of a storm event 0.5 inches or greater.

WASTE MATERIALS: All waste materials will be collected and stored in a securely lidded dumpster. All trash and construction debris from the site will be deposited as necessary at a local dump. No construction waste material will be buried on site.

HAZARDOUS WASTE (INCLUDING SPILL REPORTING): At a minimum, any products in the following categories to be hazardous: Paints, Acids for cleaning masonry surfaces, Cleaning Solvents, Asphalt products, Chemical additives for soil stabilization, or Concrete curing compounds and additives. In the event of a spill which may be hazardous, the spill Coordinator should be contacted immediately. Emptying of excess concrete should not be allowed on site. Likewise, washout of concrete trucks should not be performed on site. These discharges are considered non-allowable non-storm water discharges. Concrete trucks should never be allowed to dump into storm drains or sanitary sewers.

SANITARY WASTE: All sanitary waste will be collected from the portable units as necessary or as required by local regulation by a licensed sanitary waste management contractor.

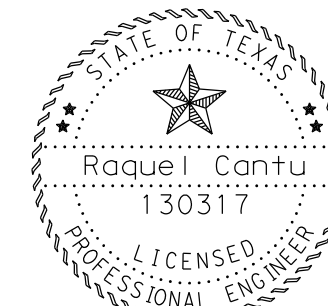
OFFSITE VEHICLE TRACKING: The Contractor shall be required, on a regular basis or as may be directed by the Engineer, to dampen haul roads for dust control, stabilize construction entrances and to remove excess dirt from the roadway.

MANAGEMENT PRACTICES: (Example Below - May be used as applicable, revised or expanded):

1. Disposal areas, stockpiles, and haul roads shall be constructed in a manner that will minimize and control the amount of sediment that may enter receiving waters. Disposal areas shall not be located in any wetland, water body or stream bed.
2. Construction staging areas and vehicle maintenance areas shall be constructed by the Contractor in a manner to minimize the runoff of pollutants.
3. All waterways shall be cleared as soon as practicable of temporary embankment, temporary bridges, matting, falsework, piling, or debris or other obstructions placed during construction operations that are not a part of the finished work.

OTHER: Contractor shall adhere to the following:

1. Construction Materials List of materials stored on job site to be provided by Contractor.
2. The project SW3P File shall be located at the project field office or within the Contractor's mobile office at all times and shall contain the N.O.I., CGP, Signature Authorization, Certification/Qualification Statements, Inspection Reports, Required Maps, and the TPDES Permit, Part II. This File to be presented to authorized State and Federal Agents upon request.



Raquel Cantu 11.06.2020
 , P.E.

Signature of Registrant & Date

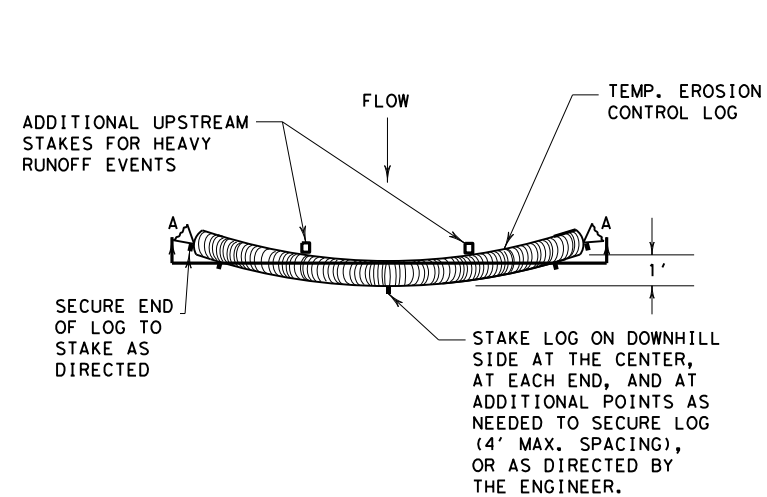
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 Texas Department of Transportation

TxDOT STORM WATER POLLUTION PREVENTION PLAN (SW3P)

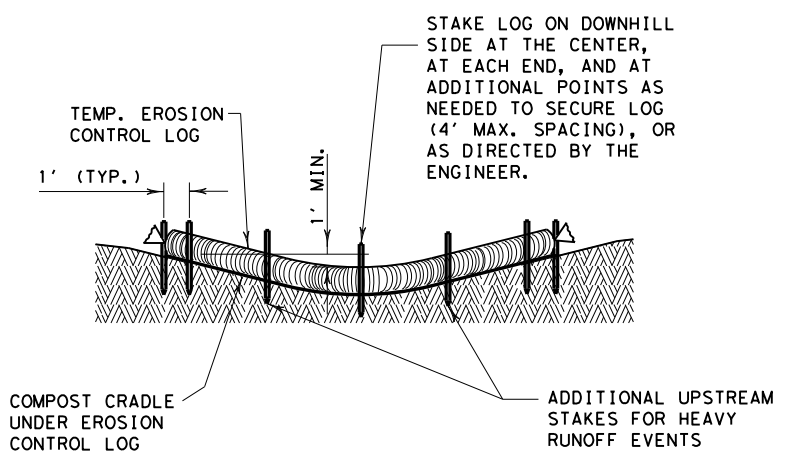
REV. 2-20-14 SW3P.DGN

FED. RD. DIV. NO. 6	PROJECT NO.	SHEET NO. 271
STATE TEXAS	DIST. PHARR	COUNTY HIDALGO
CONT. 6353	SECT. 00	JOB 001
		HIGHWAY NO. IH 2, ETC.

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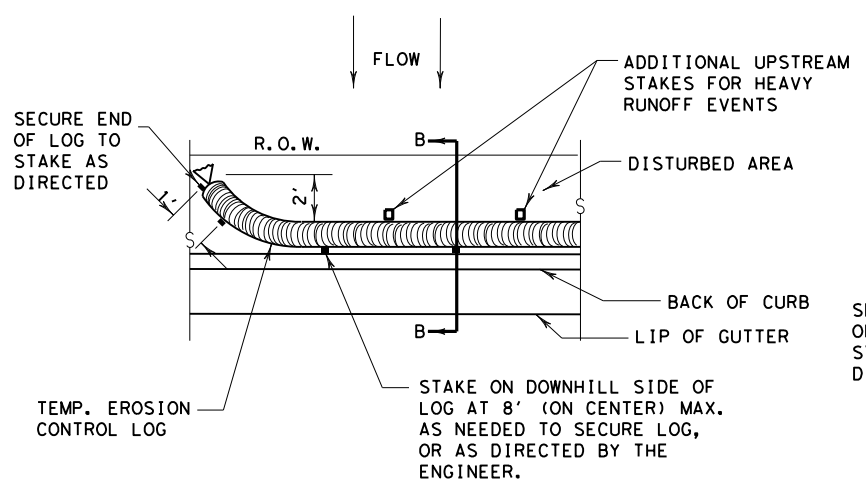


PLAN VIEW

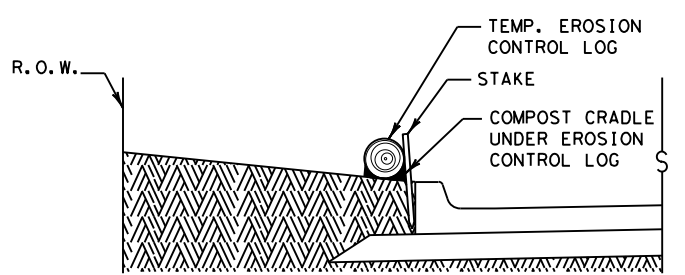


SECTION A-A
EROSION CONTROL LOG DAM

CL-D

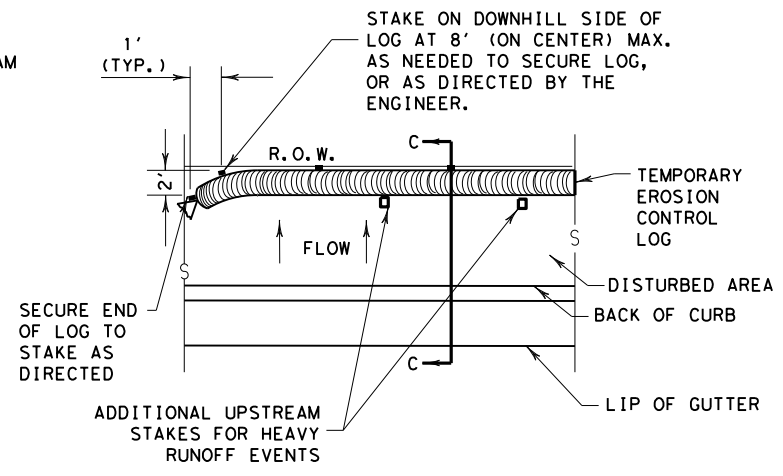


PLAN VIEW

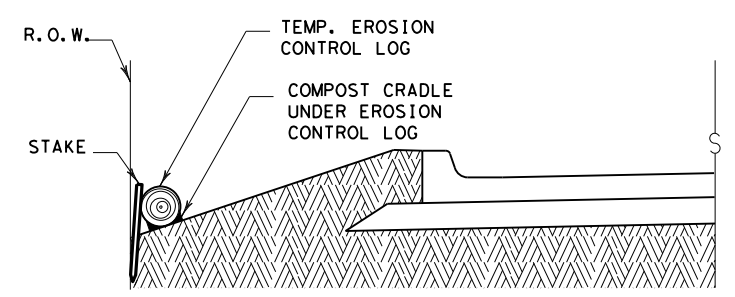


SECTION B-B
EROSION CONTROL LOG AT BACK OF CURB

CL-BOC



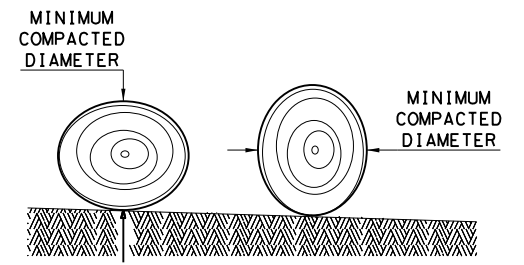
PLAN VIEW



SECTION C-C

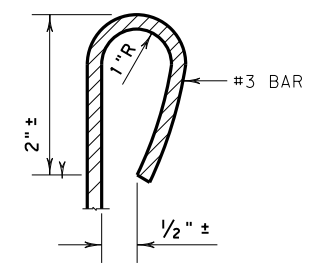
EROSION CONTROL LOG AT EDGE OF RIGHT-OF-WAY

CL-ROW



DIAMETER MEASUREMENTS OF EROSION CONTROL LOGS SPECIFIED IN PLANS

- LEGEND**
- CL-D EROSION CONTROL LOG DAM
 - CL-BOC EROSION CONTROL LOG AT BACK OF CURB
 - CL-ROW EROSION CONTROL LOG AT EDGE OF RIGHT-OF-WAY
 - CL-SST EROSION CONTROL LOGS ON SLOPES STAKE AND TRENCHING ANCHORING
 - CL-SSL EROSION CONTROL LOGS ON SLOPES STAKE AND LASHING ANCHORING
 - CL-DI EROSION CONTROL LOG AT DROP INLET
 - CL-CI EROSION CONTROL LOG AT CURB INLET
 - CL-GI EROSION CONTROL LOG AT CURB & GRATE INLET



REBAR STAKE DETAIL

SEDIMENT BASIN & TRAP USAGE GUIDELINES

An erosion control log sediment trap may be used to filter sediment out of runoff draining from an unstabilized area.

Log Traps: The drainage area for a sediment trap should not exceed 5 acres. The trap capacity should be 1800 CF/Acre (0.5" over the drainage area).

Control logs should be placed in the following locations:

1. Within drainage ditches spaced as needed or min. 500' on center
2. Immediately preceding ditch inlets or drain inlets
3. Just before the drainage enters a water course
4. Just before the drainage leaves the right of way
5. Just before the drainage leaves the construction limits where drainage flows away from the project.

The logs should be cleaned when the sediment has accumulated to a depth of 1/2 the log diameter.

Cleaning and removal of accumulated sediment deposits is incidental and will not be paid for separately.

GENERAL NOTES:

1. EROSION CONTROL LOGS SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS, OR AS DIRECTED BY THE ENGINEER.
2. LENGTHS OF EROSION CONTROL LOGS SHALL BE IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS AND AS REQUIRED FOR THE PURPOSE INTENDED.
3. UNLESS OTHERWISE DIRECTED, USE BIODEGRADABLE OR PHOTODEGRADABLE CONTAINMENT MESH ONLY WHERE LOG WILL REMAIN IN PLACE AS PART OF A VEGETATIVE SYSTEM. FOR TEMPORARY INSTALLATIONS, USE RECYCLABLE CONTAINMENT MESH.
4. FILL LOGS WITH SUFFICIENT FILTER MATERIAL TO ACHIEVE THE MINIMUM COMPACTED DIAMETER SPECIFIED IN THE PLANS WITHOUT EXCESSIVE DEFORMATION.
5. STAKES SHALL BE 2" X 2" WOOD OR #3 REBAR, 2'-4' LONG, EMBEDDED SUCH THAT 2" PROTRUDES ABOVE LOG, OR AS DIRECTED BY THE ENGINEER.
6. DO NOT PLACE STAKES THROUGH CONTAINMENT MESH.
7. COMPOST CRADLE MATERIAL IS INCIDENTAL & WILL NOT BE PAID FOR SEPARATELY.
8. SANDBAGS USED AS ANCHORS SHALL BE PLACED ON TOP OF LOGS & SHALL BE OF SUFFICIENT SIZE TO HOLD LOGS IN PLACE.
9. TURN THE ENDS OF EACH ROW OF LOGS UPSLOPE TO PREVENT RUNOFF FROM FLOWING AROUND THE LOG.
10. FOR HEAVY RUNOFF EVENTS, ADDITIONAL UPSTREAM STAKES MAY BE NECESSARY TO KEEP LOG FROM FOLDING IN ON ITSELF.

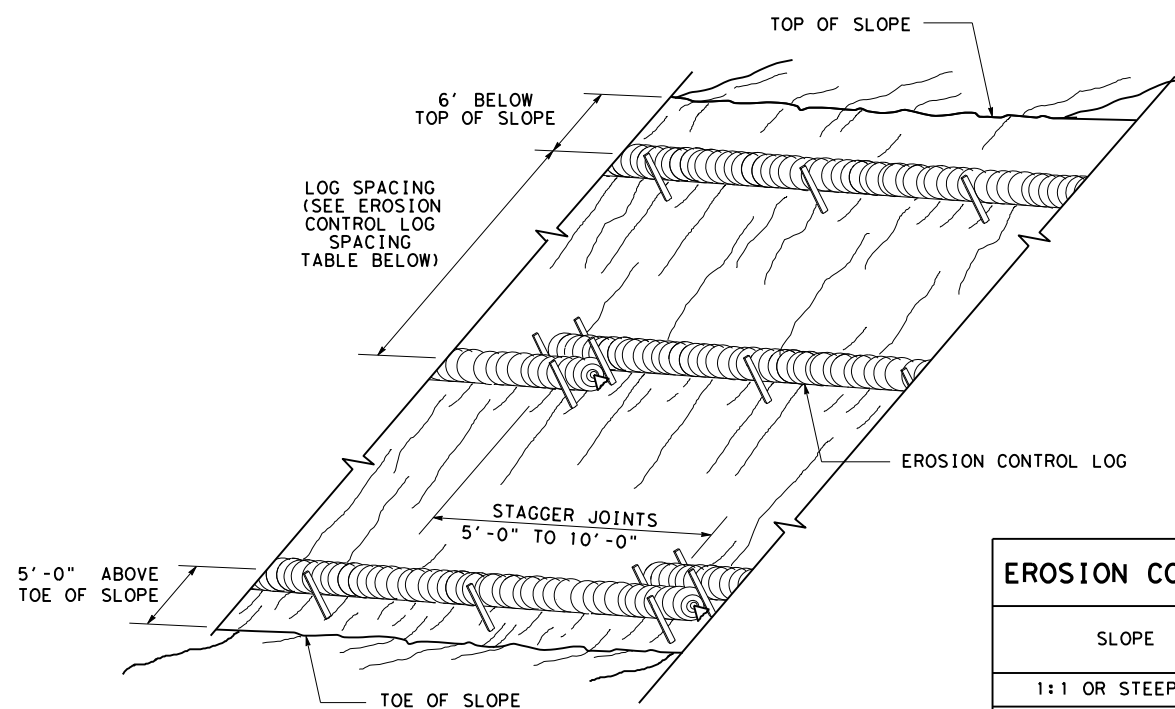
SHEET 1 OF 3

		<i>Design Division Standard</i>	
<p>TEMPORARY EROSION, SEDIMENT AND WATER POLLUTION CONTROL MEASURES</p> <p>EROSION CONTROL LOG</p> <p>EC (9) - 16</p>			
FILE: ec916	DN: TxDOT	CK: KM	DW: LS/PT
© TxDOT: JULY 2016	CONT: 6353	SECT: 00	JOB: 001
REVISIONS			HIGHWAY: 6353
	DIST: 21	COUNTY: HIDALGO, ETC.	SHEET NO.: 272

DATE: FILE:

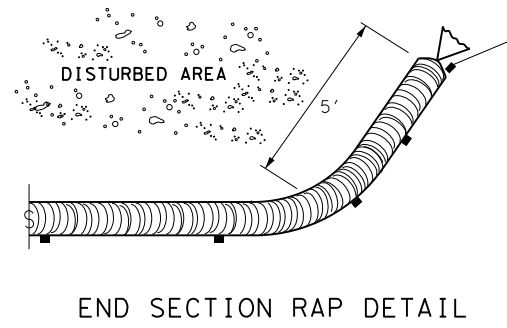
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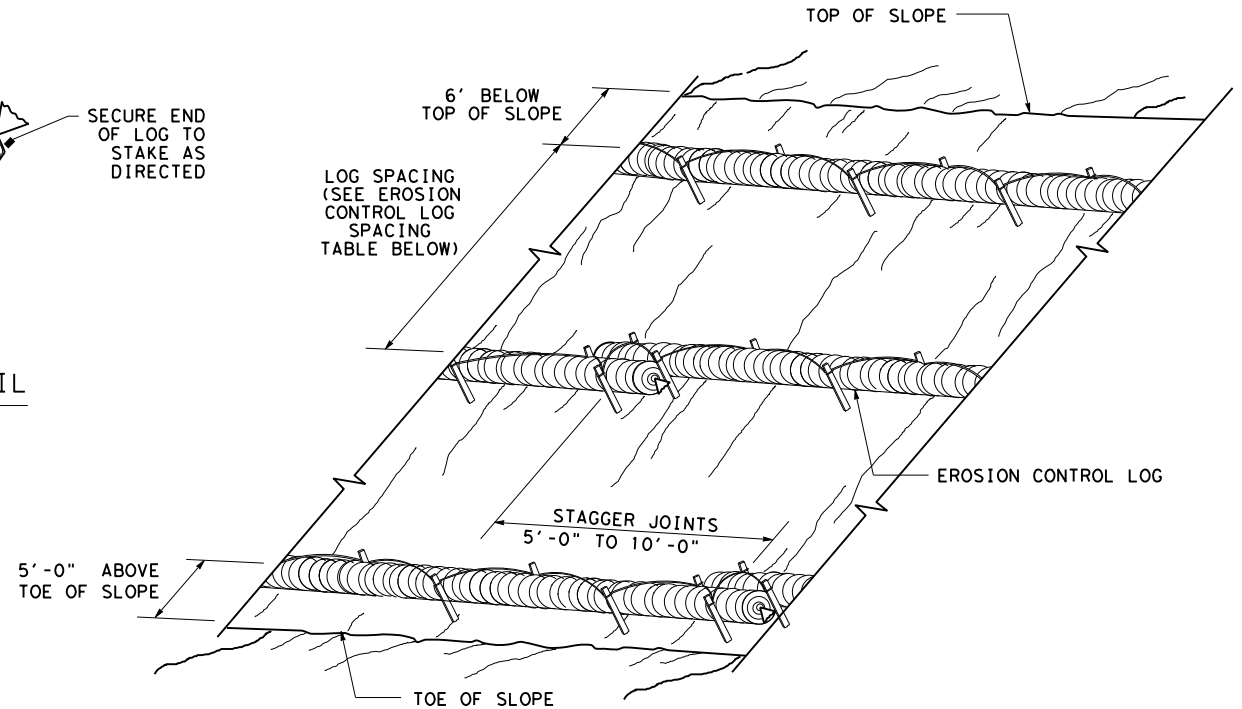
**EROSION CONTROL LOGS ON SLOPES
STAKE AND TRENCHING ANCHORING**

CL-SST



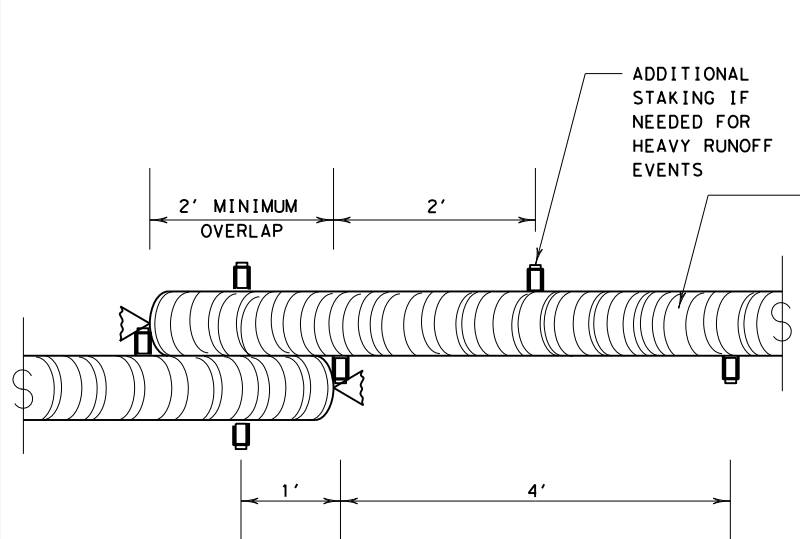
SLOPE	LOG DIAMETER			
	6"	8"	12"	18"
1:1 OR STEEPER	5'	10'	15'	20'
2:1	10'	20'	30'	40'
3:1	15'	30'	45'	60'
4:1 OR FLATTER	20'	40'	60'	80'

* ADJUSTMENTS CAN BE MADE FOR SOIL TYPE:
SOFT, LOAMY SOILS-ADJUST ROWS CLOSER TOGETHER;
HARD, ROCKY SOILS- ADJUST ROWS FARTHER APART



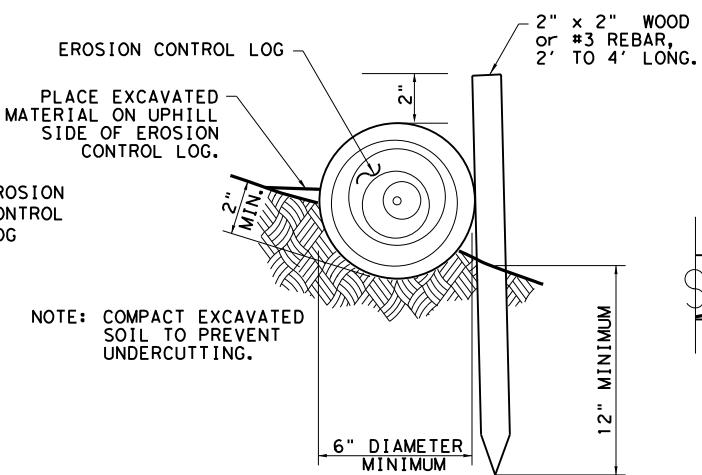
**EROSION CONTROL LOGS ON SLOPES
STAKE AND LASHING ANCHORING**

CL-SSL



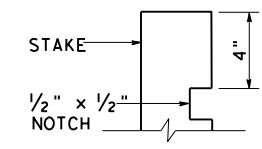
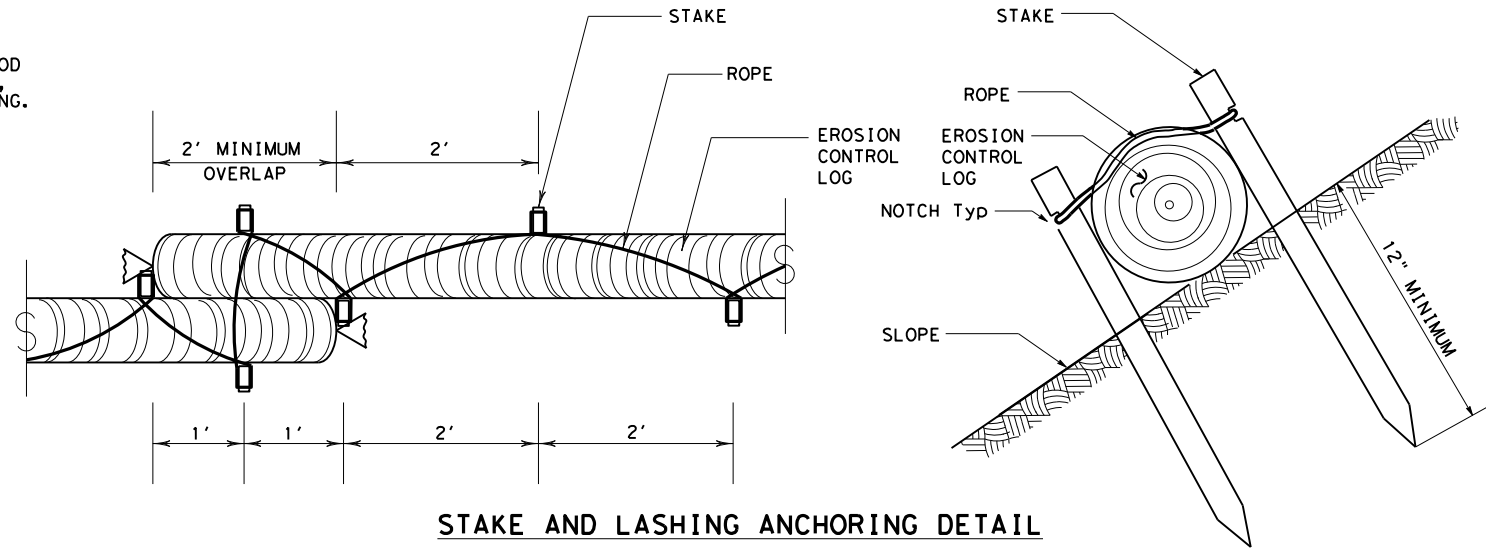
STAKE AND TRENCHING ANCHORING DETAIL

CL-SST



STAKE AND LASHING ANCHORING DETAIL

CL-SSL



STAKE NOTCH DETAIL

LOG DIAMETER	DEPTH
6"	2"
8"	3"
12"	4"
18"	5"

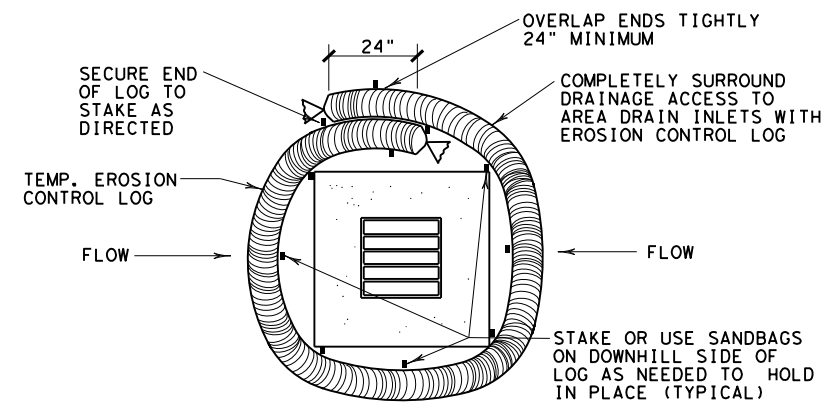
SHEET 2 OF 3

Design Division Standard

**TEMPORARY EROSION,
SEDIMENT AND WATER
POLLUTION CONTROL MEASURES
EROSION CONTROL LOG
EC(9) - 16**

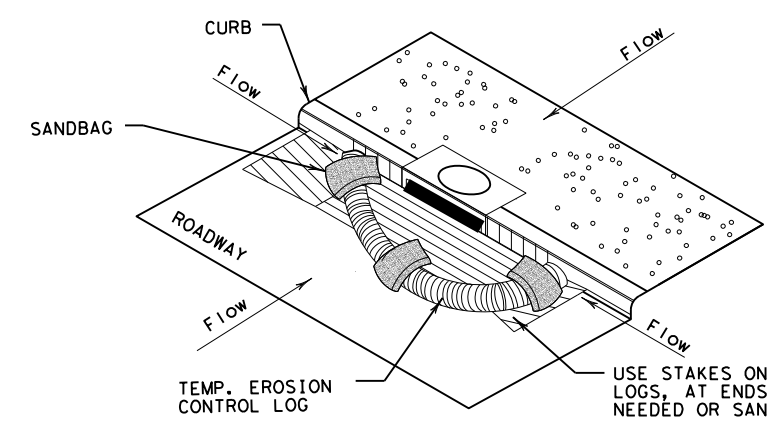
FILE: ec116	DN: TxDOT	CK: KM	DW: LS/PT	CK: LS
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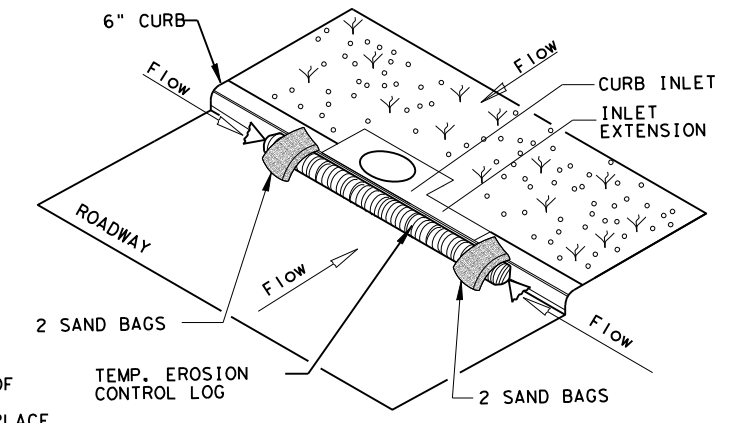
EROSION CONTROL LOG AT DROP INLET

CL-DI



EROSION CONTROL LOG AT CURB INLET

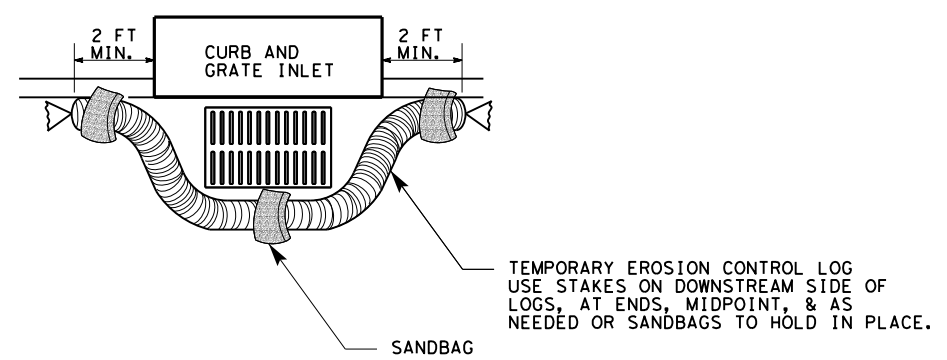
CL-CI



EROSION CONTROL LOG AT CURB INLET

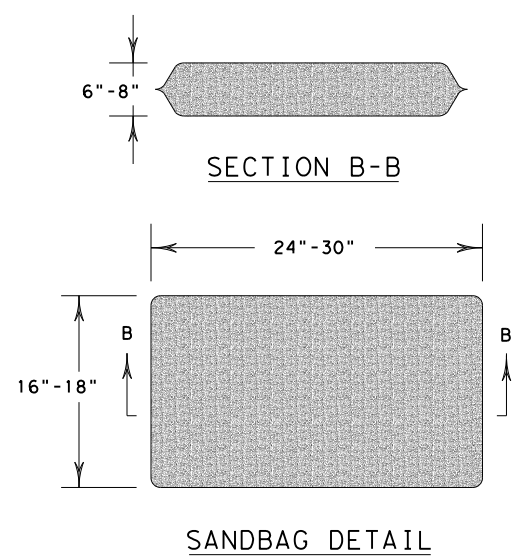
CL-CI

NOTE:
EROSION CONTROL LOGS USED AT CURB INLETS SHOULD ONLY BE USED IF THEY WILL NOT IMPEDE TRAFFIC OR FLOOD THE ROADWAY OR WHEN THE STORM SEWER SYSTEM IS NOT FULLY FUNCTIONAL.



EROSION CONTROL LOG AT CURB & GRADE INLET

CL-GI



SHEET 3 OF 3

		<i>Design Division Standard</i>	
TEMPORARY EROSION, SEDIMENT AND WATER POLLUTION CONTROL MEASURES EROSION CONTROL LOG EC (9) - 16			
FILE: ec916	DN: TxDOT	CK: KM	DW: LS/PT
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REVISIONS			HIGHWAY: 6353
	DIST: 21	COUNTY: HIDALGO, ETC.	SHEET NO.: 274

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