

SUBJECT: PLANS AND PROPOSAL ADDENDUMS

PROJECT: F 2024(535)

CONTROL: 0003-06-101

COUNTY: REEVES

LETTING: 11/06/2024

REFERENCE NO: 1030

PROPOSAL ADDENDUMS

X PROPOSAL COVER

X BID INSERTS (SH. NO.: ALL

X GENERAL NOTES (SH. NO.: ALL

_ SPEC LIST (SH. NO.:

_ SPECIAL PROVISIONS:

ADDED:

DELETED:

_ SPECIAL SPECIFICATIONS:

ADDED:

DELETED:

X OTHER: PLAN SHEETS AND OTHER CHANGES

DESCRIPTION OF ABOVE CHANGES

(INCLUDING PLANS SHEET CHANGES)

***** Proposal Cover *****

REVISED CONTRACT TO 240 WORKING DAYS

***** Bid Insert *****

ALL BID INSERT PROPOSAL SHEETS AND E&Q SHEETS 10, 10A ARE REPLACED AS PART OF THIS ADDENDUM

REVISED QUANTITIES FOR THE FOLLOWING BID ITEMS:

429-7006, 505-7001, 505-7003, 502-7001

ADDED THE FOLLOWING BID ITEMS:

429-7003

***** General Notes *****

ALL GENERAL NOTES PROPOSAL SHEETS AND PLAN SHEETS 9, 9A - 9E ARE REPLACED AS PART OF THIS ADDENDUM

DESCRIPTION OF ABOVE CHANGES

(INCLUDING PLANS SHEET CHANGES)

(CONTINUED)

SHEET C ITEM 344: REMOVED NOTE

SHEET D ITEM 346: REMOVED NOTE

***** Plan Sheets *****

SHEET 2 (INDEX OF SHEETS): REVISED GENERAL NOTES, NEW ESTIMATE & QUANTITY SHEET, REPLACED SUMMARY OF SMALL SIGNS SHEETS, NEW RAILROAD SCOPE OF WORK SHEET

SHEETS 9, 9A - 9E (GENERAL NOTES): REFER TO GENERAL NOTES CHANGES AS NOTED ABOVE

SHEETS 10, 10A - 10B(ESIMATE & QUANTITY): REFER TO BID INSERT CHANGES AS NOTED ABOVE. NEW SHEET ADDED DUE TO THESE REVISIONS.

SHEETS 11, 14 (CONSOLIDATED SUMMARY): REVISED QUANTITIES, ADDED ITEM

SHEETS 95 - 97: OMITTING SHEETS

SHEETS 95A - 97A: ADDING NEW SOSS SHEETS

SHEET 133A: ADDING RAILROAD SCOPE OF WORK SHEET



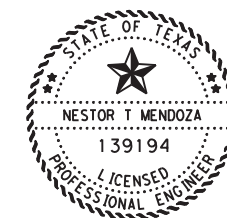
GENERAL	
1	TITLE SHEET
2	INDEX OF SHEETS
3-8	TYPICAL SECTIONS
9, 9A-9E	GENERAL NOTES
10, 10A-10B	ESTIMATE & QUANTITY
11-15	CONSOLIDATED SUMMARY
TRAFFIC CONTROL PLAN STANDARDS	
16	ADVANCED PROJECT WARNING SIGNING
17-19	PHASE NARRATIVE
20-31	*BC (1)-21 THRU BC (12)-21
32	*TCP (1-5)-18
33	*TCP (2-6)-18
34	*TCP (3-2)-13
35	*TCP (3-3)-14
36	*TCP (5-1)-18
37-41	*TCP (6-1)-12 THRU TCP (6-5)-12
42	*TCP (6-8)-14
43	*WZ (UL)-13
44	*WZ (STPM)-23
45	*BARRIERGUARD-19
46	*ZONEGUARD-19
47-48	*SSCB (2-10)
49-50	*CSB (1)-10
51	*SSCB (5)-10
52	*CSB (7)-10
53	*REACT (M)-21
54	*SMT (N)-16
55	*ABSORB (M)-19
56	*SLED-19
ROADWAY ITEMS	
57	TREATMENT FOR VARIOUS EDGE CONDITIONS
58	ALIGNMENT DATA SHEET
59	ROADWAY MISCELLANEOUS DETAILS
60-63	RAMP DETAILS
64	UNUSED PLANNED MATERIAL LOCATION MAP

TRAFFIC ITEMS	
65	*GF (31)-19
66	*GF (31) DAT-19
67	*GF (31) LS-19
68-69	*GF (31) TR TL3-20
70	*SGT (10S) 31-16
71	*SGT (11S) 31-18
72	*SGT (12S) 31-18
73	*BED-14
74-84	MBGF DETAILS
85-86	SUMMARY OF LARGE SIGNS
87-92	LARGE SIGN DETAILS
93-94	LARGE SIGN REMOVAL SUMMARY
95-97	SUMMARY OF SMALL SIGNS
95A-97A	SUMMARY OF SMALL SIGNS
95A-97A	SUMMARY OF SMALL SIGNS
98-100	SMALL SIGN REMOVAL SUMMARY
101	*SMD (GEN)-08
102	*SMD (SLIP-1)-08
103	*SMD (SLIP-2)-08
104	*SMD (SLIP-3)-08
105	*SMD (TWT)-08
106	*SMD (FRP)-08
107	*SMD (2-1)-24
108	*SMD (2-2)-24
109	*SMD (2-3)-24
110	*SMD (2-4)-24
111-115	*TSR (1)-13 THRU TSR (5)-13
116-121	*FPM (1)-22 THRU FPM (6)-22
122-127	*D&OM (1)-20 THRU D&OM (6)-
128	*RS (1)-23
BRIDGE	
129	BRIDGE DECK OVERLAY NOTES
RAILROAD	
130-131	RAILROAD CROSSING
132-133,133A	RAILROAD SCOPE OF WORK
132-133,133A	RAILROAD SCOPE OF WORK

134-135	SWP3 NOTES
136	SWP3 SIGN SHEET
137-139	SWP3 SITE PLAN
140-142	*EC (9)-16
143	EPIC

THE STAND SHEETS SPECIFICALLY IDENTIFIED ABOVE WITH AN (*) HAVE BEEN SELECTED BY ME OR UNDER MY RESPONSIBLE TO THIS PROJECT.

DocuSigned by:
Nestor T Mendoza, P.E. 9/12/2024
9104D8EB1809444... DATE



INDEX OF SHEETS



FED. RD. DIV. NO.	PROJECT NO.		SHEET NO.
6	SEE TITLE SHEET		2
STATE	STATE DIST.	COUNTY	
TEXAS	ODA	REEVES	
CONT.	SECT.	JOB	HIGHWAY NO.
0003	06	101, ETC.	IH 20

REVISED BY ADDENDUM #1 10/29/2024

Material Specification Information

Grading Requirements (gn1)

Item	Description	Grading Requirements				Soil		Wet
		Percent Retained - Sieves				Constants	P.I.	Ball
		1-3/4"	7/8"	3/8"	#40	L.L.	Max.	Mill
						Max.	Max.	Max.
247	Type A GR 4	0-3	10-35	20-55	65-85	40	12	40

The maximum increase in material passing the number 40 sieve resulting from the wet ball mill test shall not exceed 20%.

Cure the finished section of flex base until the moisture content is at least half of the optimum moisture content or as directed by the engineer before applying the next successive course or prime coat.

There is potential for gypsum in the area and additional time may be necessary to process the subgrade and/or base material.

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

Questions may be submitted via the Letting Pre-Bid Q&A web page. This webpage can be accessed from the Notice to Contractors dashboard located at the following Address:
<https://tableau.txdot.gov/views/ProjectInformationDashboard/NoticetoContractors>

All contractor questions will be reviewed by the Engineer. All questions and any corresponding responses that are generated will be posted through the same Letting Pre-Bid Q&A web page.

The Letting Pre-Bid Q&A web page for each project can be accessed by using the dashboard to navigate to the project you are interested in by scrolling or filtering the dashboard using the controls on the left. Hover over the blue hyperlink for the project you want to view the Q&A for and click on the link in the window that pops up.

Item 5: Control of the Work

The existing alignment is the control for the Contractor staking. Establish reference points for the control prior to removing the existing surface.

Use Method C for construction surveying.

In the event the finished surface does not conform to the typical sections or does not meet the required IRI, rework the non-conforming area to the limits necessary and employ additional survey control as directed.

The contractor shall comply and follow Contractor's Right of Entry Agreement Exhibit D, Minimum Safety Requirements regarding clothing, personal protective equipment, and general safety requirements.

Item 6: Control of Materials

Restrict storage of equipment and materials to approved areas. The Engineer will not approve storage in any TxDOT yard.

Promptly and properly dispose of any waste generated from servicing equipment on the project.

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

Item 7: Legal Relations and Responsibilities

If access to the project is required through a new or unapproved driveway (i.e. Material source, stockpile location, field office, etc.), obtain an approved "Permit to Construct Access Driveway Facilities on Highway Right Of Way" (TxDOT Form 1058) before beginning any construction operations.

Utilities (public, private and TxDOT) exist throughout the project. Prior to any excavation, investigate to determine the utility locations within the project right of way. Contact the TxDOT Odessa Traffic Operations shop at 432-498-4690 to investigate and determine the location of any TxDOT utility that may exist within the project right of way. Exercise caution when excavating in areas where investigations have determined that utilities exist. The contractor is responsible for maintaining utility markings.

The West of the Pecos Rodeo would be the only significant traffic generator event.

Manage construction to minimize disruption to traffic. Maintain the roadway in good and passable condition, including proper drainage and provide for ingress and egress to adjacent property.

Item 8: Prosecution and Progress

The following portions of the plans may affect the Contractor's planned construction sequencing. The Contractor's attention is directed to the appropriate plan sheet or standard sheet.

- Traffic Control Plan
- Storm Water Pollution Prevention Plan
- Environmental Permit, Issues And Commitments (EPIC)
- Railroad Exhibits and/or Notes

Maintain ingress and egress to side streets and private property at all times.

County: REEVES
Highway: IH 20

Sheet:
Control: 0003-06-101, ETC.

Maintain ingress and egress to the frontage roads at all times.

Working days will be computed and charged in accordance with Article 8. 3.1.4. "Standard Workweek."

Incentive for early contract completion shall be based on contract administrative liquidated damage rates. Incentive for early contract completion shall be maxed out at 30 days.

The road-user cost liquidated damages are \$18,094 per day.

90 day lead time is needed to allow for sufficient time to obtain and produce materials needed for various bid items in this project.

During milling and filling operations, a "wedge" of materials shall be placed longitudinally between lanes, at intersections, and at driveways. Material will be as approved by the Engineer. This work will be paid for directly but will be subsidiary to the various bid items.

Item 150: Blading

Use blading to construct and remove side road turnouts, rebuild existing dikes, ditch blocks, and other work as directed.

When directed, fill and grade low areas outside the embankment areas to drain.

Item 216: Proof Rolling

Proof rolling will be required at locations as directed by the Engineer.

Item 344: Superpave Mixtures

Binder:


Provide a binder that has a Performance Grade of 70 -22 (PG 70-22) for the "SP-B" mix.

Aggregate quality:

Furnish Class B aggregate for the Type "SP-B" mix.

Furnish aggregates for the shoulders and/or ramps that meet project SAC requirements.

Mixture design:

 ~~Design a mixture with a gradation that has stone on stone contact and passes below the reference zone.~~

Test method Tex-530-C (Boil Test) will not be required.

Placement:

General Notes

Sheet: C

County: REEVES
Highway: IH 20

Sheet:009A
Control: 0003-06-101, ETC.

Semi-trailer type vehicles are prohibited from dumping directly into the finishing machine for the finished surface unless the trailer is equipped with an auger slatted chain or another approved conveyor.

No more than 10% RAP will be allowed in non-surface courses.

No RAS will be allowed.

Mineral filler will not be allowed.

Lime will not be allowed as an anti-stripping agent.

Field sand will not be allowed.

Item 346: Stone-Matrix Asphalt

Binder:

Provide a binder that has Performance Grade of 76-22 (PG 76-22) for the SMA-D

Furnish Type I asphalt-rubber binder containing Grade C rubber. For the SMAR-F

Aggregate quality:

Provide Class A aggregate. Blending of SAC A and SAC B material will not be allowed for the coarse aggregate.

Magnesium sulfate soundness loss will not be greater than 20 percent when Class A aggregate is required.


Mixture design:

Test method Tex-530-C (Boil Test) will not be required.

Placement:

Semi-trailer type vehicles are prohibited from dumping directly into the finishing machine for the finished surface-unless the trailer is equipped with an auger slatted chain or another approved conveyor.

No RAP will be allowed in the surface course.

 ~~No more than 10% RAP will be allowed in non-surface courses.~~

No RAS will be allowed.

Mineral filler will not be allowed.

Lime will not be allowed as an anti-stripping agent.

Field sand will not be allowed.

General Notes

Sheet: D

 Revised per Addendum 1 10/29/2024

County: REEVES
Highway: IH 20

Sheet:
Control: 0003-06-101, ETC.

Item 354: Planning and Texturing Pavement

Unused planed material will become the Reeves County property and deliver to intersection of BI-20 and FM 2119. Dispose of this material in accordance with applicable Federal, State, and local regulations.

Various in depth of +/- 1/2 inch are subsidiary to this item.

Item 421: Hydraulic Cement Concrete

Furnish a job site curing tank equipped with a recording thermometer with the capability to chart temperatures for 24 hours, 7 days and 30 days. Furnish the Engineer with copies of the temperature records.

Furnish disposable 4" or 6" cylinder molds and caps that meet testing tolerances.

The Engineer will provide strength testing equipment for acceptance testing.

Furnish Type II or IP cement for cast-in-place concrete.

All plants and trucks may be inspected and approved by the Engineer in lieu of the NRMCA or Non-Department Engineer Sealed Certifications. The criteria and frequency of the Engineer approval of plants and trucks is the same used for NRMCA Certification.

Item 502: Barricades, Signs, and Traffic Handling

Furnish flaggers to warn equipment operators of approaching traffic.

Relocate or remove temporary signs as necessary. This work is considered subsidiary to various bid items.

Stop work immediately if any major traffic control element such as an advanced warning flashing panel or TMA or PCMS is not in good working order or control setup.

Maintain "No Center Line", "Do Not Pass" and "Pass With Care" signs until the permanent lane markings have been placed in accordance with plans.

Place chevrons, at a minimum, on every other drum used for outsides of curves, merging tapers and shifting tapers.

This project has a regulatory work zone speed reduction within the project limits. The work zone speed limit is reduced from 80 mph to 65 mph. Placement of speed reduction zone signs shall comply with BC (3)-21. Speed resumption sign(s) is required at the end of a speed reduction zone.

Vertical panels shall be self-righting.

The Contractor Force Account "Safety Contingency" that has been established for this project is intended to be utilized for work zone enhancements, to improve the effectiveness of the Traffic Control Plan, that could not be foreseen in the project planning and design stage. These

County: REEVES
Highway: IH 20

Sheet:009B
Control: 0003-06-101, ETC.

enhancements will be mutually agreed upon by the Engineer and the Contractor's Responsible Person based on weekly or more frequent traffic management reviews on the project. The Engineer may choose to use existing bid items if it does not slow the implementation of enhancement.

When construction operations result in a drop-off of more than 2 inches, a 3:1 or flatter slope will be required. The slope must be constructed with a compacted material capable of supporting vehicles as approved by the Engineer. This work shall be done expeditiously during daylight hours. Flaggers and appropriate signing to safely guide traffic through the work area will be required as directed by the Engineer. This shall be considered subsidiary to Item 502.

Item 503: Portable Changeable Message Sign

PCMS shall be placed in operation a minimum of one (1) week prior to construction. Location(s) and duration for PCMS shall be as directed by the Engineer.

When message boards are paid by the EACH, payment for each message board will be for the duration of the project regardless of traffic control phases. Use of the same message board will not be paid more than once.

Item 504: Field Office and Laboratory

Provide a Type D structure (Hotmix asphalt mix control laboratory) for the Engineer's exclusive use at least 30 days prior to beginning a paving operation or as approved by the Engineer. In addition to the requirements of Item 504, this structure will have a minimum height of 8 feet and provide a minimum of 400 square feet of gross floor area for permanently located asphalt plants, or 200 square feet for temporary located plants serving one project. The floor area will be partitioned into a minimum of two interconnected rooms, each room furnished with an exterior door and a minimum of two windows. The floor will have sufficient strength to support the testing equipment and have an impervious covering. The structure will be adequately air conditioned and furnished with a minimum of one desk, three chairs, and one file cabinet. The structure will be provided with a 240 volt electrical service entrance. The service shall consist of a minimum of four 120 volt circuits with 20 amp breakers and no more than two grounded convenience outlets per circuit and provisions for a minimum of two 220 volt ovens with vents to the outside. The structure will have a minimum of two (2) convenience outlets per wall, and a utility sink with an adequate clean potable water supply for testing. These requirements are subsidiary to the various bid items.

Item 505: Truck Mounted Attenuator (TMA) and Trailer Attenuator (TA)

General Note 5 of TCP (1-5)-18 provides for additional shadow vehicle(s) with truck mounted attenuator (TMA); one (1) additional shadow vehicle with TMA is included in the basis of estimate for this operation. The shadow vehicle(s) with TMA specified on the traffic control plan as "required" plus the 'additional shadow vehicle' is the quantity that has been estimated for this operation.

General Note 7 of TCP (2-6)-18 provides for additional shadow vehicle(s) with truck mounted attenuator (TMA); one (1) additional shadow vehicle with TMA is included in the basis of estimate for this operation. The shadow vehicle(s) with TMA specified on the traffic control plan as "required" plus the 'additional shadow vehicle' is the quantity that has been estimated for this operation.



There are no General Notes for additional shadow vehicle(s) with truck mounted attenuator (TMA) on TCP (5-1)-18; the shadow vehicle(s) with TMA specified on the traffic control plan as “required” is the quantity that has been estimated for this operation.

There are no General Notes for additional shadow vehicle(s) with truck mounted attenuator (TMA) on TCP (6-1)-12; the shadow vehicle(s) with TMA specified on the traffic control plan as “required” is the quantity that has been estimated for this operation.

There are no General Notes for additional shadow vehicle(s) with truck mounted attenuator (TMA) on TCP (6-2)-12; the shadow vehicle(s) with TMA specified on the traffic control plan as “required” is the quantity that has been estimated for this operation.

There are no General Notes for additional shadow vehicle(s) with truck mounted attenuator (TMA) on TCP (6-4)-12; the shadow vehicle(s) with TMA specified on the traffic control plan as “required” is the quantity that has been estimated for this operation.

There are no General Notes for additional shadow vehicle(s) with truck mounted attenuator (TMA) on TCP (6-5)-12; the shadow vehicle(s) with TMA specified on the traffic control plan as “required” is the quantity that has been estimated for this operation.

There are no General Notes for additional shadow vehicle(s) with truck mounted attenuator (TMA) on TCP (6-8)-14; the shadow vehicle(s) with TMA specified on the traffic control plan as “required” is the quantity that has been estimated for this operation.

Basis of Estimate for Stationary TMAs				
		TMA (STATIONARY)		
Phase	Standard	Required	Optional	Total
1,2	TCP(1-5)-18	1	1	2
1,2	TCP(2-6)-18	1	1	2
6	TCP(5-1)-18	1	0	1
1,2,5	TCP(6-1)-18	1	0	1
1,2,5	TCP(6-2)-18	1	0	1
1,2,5	TCP(6-3)-18	1	0	1
1,2,5	TCP(6-4)-18	1	0	1
1,2,5	TCP(6-5)-18	1	0	1
1,2,5	TCP(6-8)-18	1	0	1

The estimated number of stationary TMAs determined by the applicable TCP standards above is 2 in each direction; therefore, the estimated number of stationary TMAs is 4.

There are no General Notes for additional shadow vehicle(s) with truck mounted attenuator (TMA) on TCP (3-2)-13; the shadow vehicle(s) with TMA specified on the traffic control plan as “required” is the quantity that has been estimated for this operation.

There are no General Notes for additional shadow vehicle(s) with truck mounted attenuator (TMA) on TCP (3-3)-14; the shadow vehicle(s) with TMA specified on the traffic control plan as “required” is the quantity that has been estimated for this operation.

Basis of Estimate for Stationary TMAs			
		TMA (STATIONARY)	
Standard	Required	Optional	Total
TCP(3-2)-13	3	0	3
TCP(3-3)-14	3	0	3

Estimated number of days of striping operations is 49 days total.

The rate for TMA (Mobile Operations is (8hr/Day)

The estimated number of TMAs for mobile operations, determined by the applicable TPC standards above is 3. The rate of TMA (Mobile Operations) is 1294 hours.

The Contractor will be responsible for determining if one or more operations will be ongoing at the same time to determine the total number of TMAs needed for the project.

Item 506: Temporary Erosion, Sedimentation, and Environmental Controls

In accordance with the Construction General Permit (CGP), erosion control and stabilization measures should be initiated as soon as practicable to include (list what our stabilization measures are – for example, replacing topsoil from windrow, erosion control blankets, seeding, etc.)

It is not anticipated that erosion control devices will be needed on this project. In the event that devices are needed, the Storm Water Pollution Prevention Plan shall consist of using the following items and/or items as directed by the Engineer. Payment for the work may be determined in accordance with Item 4, Article 4. "Changes in the Work".

-Biodegradable Erosion Control Logs

The total disturbed area for this project is 91.65 Acres. The disturbed area in this project, all project locations in the contract, and Contractor Project Specific Locations (PSLS), within 1 mile of the project limits, for the contract will further establish the authorization requirements for storm water discharges. The department will obtain an authorization to discharge storm water from the Texas Commission On Environmental Quality (TCEQ) for the construction activities shown on the plans. The Contractor is to obtain any required authorization from the TCEQ for any Contractor PSLS for construction support activities on or off the right of way. When the total area disturbed for all projects in the contract and PSLS within 1 mile of the project limits exceeds 5 acres, provide a copy of the Contractor NOI for PSLS on the right of way, to the Engineer (or to the appropriate MS4 operator when on an off-state system route).

Upon acceptance of the project, all SW3P devices will become property of the State and maintenance responsibility is transferred to the State until final stabilization is attained.

County: REEVES
Highway: IH 20

Sheet:
Control: 0003-06-101, ETC.

When applying cement for emulsion, asphalt treatment, or any other soil stabilization, sprinkle water as needed to control cement from blowing and contaminating adjacent vegetation and waters.

Provide a minimum of two SW3P Signs. Obtain from the Engineer a copy of the project's completed TPDES Storm Water Program Construction Site Notice (TxDOT) and Contractor's copy of the Construction Site Notice. Laminate the sheets and bond with adhesive to 36" X 36" plywood sign blanks. Ensure the sheets remain dry. Apply Type C Blue reflective sheeting as the background and add the text "SW3P" in 5" white lettering, centered at the top. Attach the signs to approved temporary mounts and locate at each of the project limits just inside the right of way line at a readable height or as directed by the Engineer. If the sign cannot be placed outside the clear zone, it must adhere to the TMUTCD. SW3P signs, maintenance, and reposting (for replacement or as needed to ensure readability) will be subsidiary to Item 502.

Item 540: Metal Beam Guard Fence

Provide steel post for this project.

Item 542: Removing Metal Beam Guard Fence

Do not salvage any existing metal beam guard fence as State property; retain ownership of all material requiring removal including steel posts, metal rail, and hardware, and remove from the project.

For removal of posts embedded in concrete, remove the posts and the concrete footings; payment for removal of concrete footings is subsidiary to Item 542.

Item 585: Ride Quality for Pavement Surfaces

Use surface test Type B pay adjustment schedule 2 to evaluate ride quality of the travel lanes in accordance with Item 585, "Ride Quality for Pavement Surfaces."

Item 644: Small Roadside Sign Assemblies

All new sign supports for stop and yield signs will have a 12" red strip of Type C High Specific Intensity Reflective tape. Place the top of the tape 4' above the edge of the roadway. This work will not be paid for directly and will be subsidiary to the pertinent bid item.

For standard small sign details and dimensions, refer to the "Standard Highway Sign Designs for Texas (SHSD)"; a supplement to the Texas Manual on Uniform Traffic Control Devices (TMUTCD)".

Locate and mark existing reference marker(s) perpendicular to the road and along the right of way, or as directed, prior to removal. Erect new reference marker(s) at the original location, upon completion of construction.

Only bolt clamp style slip bases will be allowed for sign assemblies. Set screws will not be allowed.

Item 658: Work Zone Pavement Markings

County: REEVES
Highway: IH 20

Sheet:009D
Control: 0003-06-101, ETC.

Delineator and object marker assembly post shall be composed of post-consumer recycled materials. Embedded stub shall perforated square tubing

Cup Mounted type delineation is needed for delineators on concrete barrier.

Install Shur-Tite® Concrete Traffic Barrier "8" Cup Mount Delineator on top of concrete barrier.

Install per table below:

Spacing Used	Delineator Spacing	Type	Note
Tangent	100'	Single Directional Yellow	
Taper	100'	Bi-Directional Yellow	
Curve	100'	Single Directional Yellow	
Bridge	100'	Single Directional Yellow	100 within Min. 3

Item 662: Work Zone Pavement Markings

After permanent pavement markings are placed, pull tabs from hot mix surface and/or cut off tabs flush with the pavement on seal coat surface. Remove tabs from the project and dispose of properly.

Materials used for non-removable work zone pavement markings will be paint and beads or other approved materials.

Item 666 Retroreflectorized Pavement Markings

Type I markings shall meet the minimum retroreflectivity values defined by Article 4.4 Retroreflectivity Requirements.

This Contract totals more than 50,000 feet of pavement markings; use a mobile retroreflectometer for retroreflectivity measurements. Portable retroreflectometers may not be used for this Contract.

Item 672: Raised Pavement Markers

Do not place raised pavement markers until the micro-surfacing has cured a minimum of 48 hours.

Item 3007: Bonding Course

An average rate of 0.20 GAL/SY was used for estimation purpose. Contractor shall choose an option show below and bid accordingly.



OPTIONS:

MATERIAL	MINIMUM TYPICAL APPLICATION RATE (GAL/SY)
TRAIL – Emulsified Asphalt	#
TRAIL – Hot Applied	#
Spray Applied Underseal Membrane	#

Typical Application Rate may vary from 0.07 to 0.20 GAL/SY depending on option.

Apply bonding course at every intermediate layer, unless otherwise directed. The Type of tack coat must be approved by the Engineer.

The Engineer may adjust the application rates as per field conditions.

Shear Bond Strength Test will be performed for information purposes and will not be used to specification compliance. The target shear bond strength is a minimum of 40 psi and for final surface layer a minimum of 50 psi.

Item 6032: Automated Portable Smart Traffic Monitoring System

Payment for the portable changeable message sign(s) configured for the Automated Portable Smart Traffic Monitoring System is subsidiary to Item 6079.

Item 6083: Video Imaging and Radar Vehicle Detection System

Supply Iteris Video Imaging and Radar Vehicle Detection (VIRVDS) cameras, edge connect module, color monitor, BNC to RCA cable for color monitor, as well as any components needed to make the system functional.

The Video Imaging and Radar Vehicle Detection System (VIRVDS) is being paid for as one unit in accordance with Item 6083 and includes but not limited to:

- 4 – Cameras
- 2 – Processors
- 1 - Edge Connect (per 2 Processors)
- 1 – Color Monitor
- *Coaxial Cable
- System Set-up

*See plan sheets for coaxial quantity.

VIRVDS cameras shall be installed directly to the mast arm in accordance with the details shown in the plans and shall be capable of monitoring 3 to 4 lanes of oncoming traffic utilizing detection zones that accommodate the initial 200 feet of approaching traffic. Detection zone sizes will simulate the operation of a 6' x 6' and a 6' x 40' inductive loop.

The VIRVDS will be tested in a typical intersection application.

The contractor shall provide ample personnel, equipment and any necessary incidentals to perform testing for detection accuracy, count and flow rate accuracy, speed accuracy, occupancy accuracy and classification accuracy of the VIRVDS in accordance with this item and as directed by the Engineer.

Disconnecting and reconnecting of video output cable from one output port to another as a method of switching video monitoring will not be allowed. A toggle switch or multiple monitors shall be required to provide an acceptable method of switching video outputs.



Estimate & Quantity Sheet

CONTROLLING PROJECT ID 0003-06-101

DISTRICT Odessa
HIGHWAY IH 20

COUNTY Reeves

CONTROL SECTION JOB				0003-06-101		0003-07-062		TOTAL EST.	TOTAL FINAL
PROJECT ID				A00178419		A00178420			
COUNTY				Reeves		Reeves			
HIGHWAY				IH 20		IH 20			
ALT	BID CODE	DESCRIPTION	UNIT	EST.	FINAL	EST.	FINAL		
	105-7029	RMV (9") TRT/UNTRT BASE & ASPH PAV	SY	279,798.000				279,798.000	
	134-7002	BACKFILL (TY B)	STA	525.000				525.000	
	150-7002	BLADING	HR	35.000				35.000	
	216-7001	PROOF ROLLING	HR	35.000				35.000	
	251-7077	REWORK BS MTL (TY D)(10")(ORD COMP)	SY	279,798.000				279,798.000	
	310-7001	PRIME COAT (AE-P)	GAL	55,960.000				55,960.000	
	316-7007	ASPH (AC-20-5TR)	GAL	106,324.000				106,324.000	
	316-7136	AGGR (TY-PB, GR-4)(SAC-A)	CY	3,693.000				3,693.000	
	344-7005	SP MIXES SP-B SAC-B PG70-22	TON	138,501.000				138,501.000	
	354-7035	PLANE ASPH CONC PAV(0" TO 6")	SY	8,188.000				8,188.000	
	354-7051	PLANE ASPH CONC PAV(2")	SY	443,014.000				443,014.000	
	416-7027	DRILL SHAFT (SIGN MTS) (12 IN)	LF	40.000				40.000	
	416-7028	DRILL SHAFT (SIGN MTS) (24 IN)	LF	150.000				150.000	
1	429-7003	CONC STR REPAIR(DECK REP(PART DEPTH))	SF	2,940.000				2,940.000	
1	429-7006	CONC STR REPR(RAPID DECK REP(FULL DPT))	SF	1,260.000				1,260.000	
	438-7001	CLEANING AND SEALING EXISTING JOINTS	LF	336.000		1,472.000		1,808.000	
	439-7017	POLYESTER POLYMER CONC OVERLAY (2")	SY	8,188.000				8,188.000	
	480-7001	CLEAN EXIST CULVERTS	EA			2.000		2.000	
	500-7001	MOBILIZATION	LS	1.000				1.000	
1	502-7001	BARRICADES, SIGNS AND TRAFFIC HANDLING	MO	12.000				12.000	
	503-7002	PORTABLE CHANGEABLE MESSAGE SIGN	EA	2.000				2.000	
1	505-7001	TMA (STATIONARY)	DAY	240.000				240.000	
1	505-7003	TMA (MOBILE OPERATION)	DAY	240.000				240.000	
	506-7045	BIODEG EROSN CONT LOGS (INSTL) (18")	LF	640.000				640.000	
	506-7046	BIODEG EROSN CONT LOGS (REMOVE)	LF	640.000				640.000	
	512-7001	PORT CTB (FUR & INST)(SGL SLOPE)(TY 1)	LF	1,020.000				1,020.000	
	512-7025	PORT CTB (MOVE)(SGL SLP)(TY 1)	LF	1,020.000				1,020.000	
	512-7049	PORT CTB (REMOVE)(SGL SLP)(TY 1)	LF	1,020.000				1,020.000	
	533-7001	MILL RUMBLE STRIPS (ASPHALT) (SHLDR)	LF	337,364.000				337,364.000	
	540-7002	MTL W-BEAM GD FEN (STEEL POST)	LF	3,125.000		11,275.000		14,400.000	
	540-7005	MTL BEAM GD FEN TRANS (THRIE-BEAM)	EA	6.000		24.000		30.000	
	540-7015	DOWNSTREAM ANCHOR TERMINAL SECTION	EA	2.000		10.000		12.000	
	540-7016	MTL BM GD FEN TRANS (NON - SYM)	EA	6.000		23.000		29.000	
	542-7001	REMOVE METAL BEAM GUARD FENCE	LF	3,125.000		11,275.000		14,400.000	
	542-7002	REMOVE TERMINAL ANCHOR SECTION	EA	2.000		10.000		12.000	

1 REVISED BY ADDENDUM 1 10/31/2024



Estimate & Quantity Sheet

CONTROLLING PROJECT ID 0003-06-101

DISTRICT Odessa
HIGHWAY IH 20

COUNTY Reeves

CONTROL SECTION JOB				0003-06-101		0003-07-062		TOTAL EST.	TOTAL FINAL
PROJECT ID				A00178419		A00178420			
COUNTY				Reeves		Reeves			
HIGHWAY				IH 20		IH 20			
ALT	BID CODE	DESCRIPTION	UNIT	EST.	FINAL	EST.	FINAL		
	544-7001	GUARDRAIL END TREATMENT (INSTALL)	EA	4.000		16.000		20.000	
	544-7003	GUARDRAIL END TREATMENT (REMOVE)	EA	4.000		16.000		20.000	
	545-7002	CRASH CUSH ATTEN (MOVE & RESET)	EA	12.000				12.000	
	545-7004	CRASH CUSH ATTEN (REMOVE)	EA	12.000				12.000	
	545-7014	CRASH CUSH ATTEN (INSTL)(S)(N)(TL3)	EA	12.000				12.000	
	636-7002	ALUMINUM SIGNS (TY G)	SF	866.000				866.000	
	644-7001	IN SM RD SN SUP&AM TY10BWG(1)SA(P)	EA	39.000				39.000	
	644-7004	IN SM RD SN SUP&AM TY10BWG(1)SA(T)	EA	32.000				32.000	
	644-7073	REMOVE SM RD SN SUP&AM	EA	75.000				75.000	
	647-7001	INSTALL LRSS (STRUCT STEEL)	LB	4,933.000				4,933.000	
	647-7003	REMOVE LRSA	EA	11.000				11.000	
	658-7003	INSTL DEL ASSM (D-SW)SZ 1(WFLX)GND	EA	80.000				80.000	
	658-7015	INSTL DEL ASSM (D-SW)SZ 1(BRF)GF1	EA	26.000		98.000		124.000	
	658-7023	INSTL DEL ASSM (D-SY)SZ 1(YFLX)GND	EA	50.000				50.000	
	658-7031	INSTL DEL ASSM (D-SY)SZ 1(BRF)CTB	EA	48.000				48.000	
	658-7034	INSTL DEL ASSM (D-SY)SZ 1(BRF)GF1	EA	6.000		23.000		29.000	
	658-7058	INSTL OM ASSM (OM-2Z)(WFLX)GND	EA	40.000				40.000	
	658-7078	REMOVE DELIN & OBJECT MARKER ASSMS	EA	327.000				327.000	
	662-7065	WK ZN PAV MRK REMOV (W)6"(BRK)	LF	26,240.000				26,240.000	
	662-7068	WK ZN PAV MRK REMOV (W)6"(SLD)	LF	104,924.000				104,924.000	
	662-7100	WK ZN PAV MRK REMOV (Y)6"(SLD)	LF	104,924.000				104,924.000	
	662-7112	WK ZN PAV MRK SHT TERM (TAB)TY W	EA	7,870.000				7,870.000	
	666-7024	REFL PAV MRK TY I (W)8"(SLD)(100MIL)	LF	4,890.000				4,890.000	
	666-7290	TY I HIGH PERF PM (W)6"(BRK)(100MIL)	LF	24,140.000				24,140.000	
	666-7293	TY I HIGH PERF PM (W)6"(SLD)(100MIL)	LF	103,764.000				103,764.000	
	666-7305	TY I HIGH PERF PM (Y)6"(SLD)(100MIL)	LF	99,801.000				99,801.000	
	668-7102	PREFAB PM TY C (W)(NUMBER)	EA	12.000				12.000	
	672-7006	REFL PAV MRKR TY II-C-R	EA	1,510.000				1,510.000	
	677-7001	ELIM EXT PM & MRKS (4")	LF	214,382.000				214,382.000	
	677-7004	ELIM EXT PM & MRKS (8")	LF	4,890.000				4,890.000	
	690-7134	INSTALL RADAR VEHICLE DETECTION SYSTEM	EA	2.000				2.000	
	3007-7001	BONDING COURSE	GAL	44,302.000				44,302.000	
	6032-7001	AUTO PORT SMART TRAFFIC MONITORING SYS	DAY	200.000				200.000	
	18	EROSION CONTROL MAINTENANCE: CONTRACTOR FORCE ACCOUNT WORK (PART)	LS	1.000				1.000	

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Estimate & Quantity Sheet

CONTROLLING PROJECT ID 0003-06-101

DISTRICT Odessa
HIGHWAY IH 20

COUNTY Reeves

CONTROL SECTION JOB				0003-06-101		0003-07-062		TOTAL EST.	TOTAL FINAL
PROJECT ID				A00178419		A00178420			
COUNTY				Reeves		Reeves			
HIGHWAY				IH 20		IH 20			
ALT	BID CODE	DESCRIPTION	UNIT	EST.	FINAL	EST.	FINAL		
	18	SAFETY CONTINGENCY: CONTRACTOR FORCE ACCOUNT WORK (PART)	LS	1.000				1.000	
1A	346-7009	STONE-MTRX-ASPH SMA-D SAC-A PG76-22	TON	48,732.000				48,732.000	
1	346-7023	STONE-MTRX-ASPH SMAR-F SAC-A	TON	48,732.000				48,732.000	



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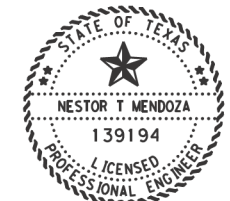
MBGF SUMMARY

IH 20 (0003-06-101)										
Locations	NBI #	REMOVAL			PROPOSED					
		542 7001	542 7002	544 7003	480 7001	540 7002	540 7005	540 7015	540 7016	544 7001
		REMOVE METAL BEAM GUARD FENCE	REMOVE TERMINAL ANCHOR SECTION	GUARDRAIL END TREATMENT (REMOVE)	CLEAN EXIST CULVERTS	MTL W-BEAM GD FEN (STEEL POST)	MTL BEAM GD FEN TRANS (THRIE-BEAM)	DOWNSTREAM ANCHOR TERMINAL SECTION	MTL BM GD FEN TRANS (NON - SYM)	GUARDRAIL END TREATMENT (INSTALL)
		LF	EA	EA	EA	LF	EA	EA	EA	EA
IH 20 @ SH 17 (Westbound)	06-195-0-0003-07-058	1200		2		1200	4		4	2
IH 20 @ INDUSTRIAL BLVD (Westbound)	06-195-0-0003-07-056	700	1			700	3	1	2	
IH 20 @ INDUSTRIAL BLVD (Eastbound)	06-195-0-0003-07-057	525		2		525	3		3	2
IH 20 @ SH 17 (Eastbound)	06-195-0-0003-07-059	1540	1	1		1540	3	1	3	1
IH 20 @ DRAW (WESTBOUND)	06-195-0-0003-07-054	325	1	1	1	325		1		1
IH 20 @ DRAW (EASTBOUND)	06-195-0-0003-07-052	350	1	1	1	350		1		1
IH 20 @ BUS 20 (WESTBOUND)		275	1	1		275		1		1
IH 20 @ BUS 20 (EASTBOUND)		225	1	1		225		1		1
IH 20 @ PECOS GIN RD (WESTBOUND)	06-195-0-0003-07-085	1335	1	2		1335	3	1	3	2
IH 20 @ PECOS GIN RD (EASTBOUND)	06-195-0-0003-07-086	1625	1	2		1625	3	1	3	2
IH 20 @ FM 869 (WESTBOUND)	06-195-0-0003-07-080	1700	1	2		1700	3	1	3	2
IH 20 @ FM 869 (EASTBOUND)	06-195-0-0003-07-081	1475	1	1		1475	2	1	2	1
IH 20 @ HERMOSA RD (WESTBOUND)	06-195-0-0003-07-078	1,575	1	2		1575	3	1	3	2
IH 20 @ HERMOSA RD (EASTBOUND)	06-195-0-0003-07-079	1,550	1	2		1550	3	1	3	2
PROJECT TOTALS		14,400	12	20	2	14,400	30	12	29	20

BRIDGE ITEMS

BRIDGE	NBI #	NUMBER OF BRIDGE JOINTS	BRIDGE LENGTH	BRIDGE DECK WIDTH	DEPTH OF OVERLAY	354 7035	⚠ 429 7006	438 7001	439 7017	480-7001	⚠ 429-7003
						PLANE ASPH CONC PAV (0" TO 6")	CONC STR REPR (RAPID DECK REP) (FULL DEPTH)	CLEAN & SEAL EXISTING JOINTS	POLYESTER POLYMER CONC OVERLAY (2")	CLEAN EXIST CULVERTS	CONC STR REPAIR (DECK REP (PART DEPTH))
						SY	SF	LF	SY	EA	SF
IH 20 @ SH 17 (WESTBOUND)	06-195-0-0003-07-058	6	240	40	5	1117		240	1117		
IH 20 @ INDUSTRIAL BLVD (WESTBOUND)	06-195-0-0003-07-056	4	160	40	5	607		160	607		
IH 20 @ INDUSTRIAL BLVD (EASTBOUND)	06-195-0-0003-07-057	4	160	40	5	607		160	607		
IH 20 @ SH 17 (EASTBOUND)	06-195-0-0003-07-059	6	240	40	5	1117	*	240	1117		*
IH 20 @ DRAW (WESTBOUND) (CULVERT)	06-195-0-0003-07-054	0	34	38						1	
IH 20 @ DRAW (EASTBOUND) (CULVERT)	06-195-0-0003-07-052	0	34	38						1	
IH 20 @ PECOS GIN RD (WESTBOUND)	06-195-0-0003-07-085	4	168	42	4	790		168	790		
IH 20 @ PECOS GIN RD (EASTBOUND)	06-195-0-0003-07-086	4	168	42	4	790		168	790		
IH 20 @ FM 869 (WESTBOUND)	06-195-0-0003-07-080	4	168	42	4	790		168	790		
IH 20 @ FM 869 (EASTBOUND)	06-195-0-0003-07-081	4	168	42	4	790		168	790		
IH 20 @ HERMOSA RD (WESTBOUND)	06-195-0-0003-07-078	4	168	42	2.5	790		168	790		
IH 20 @ HERMOSA RD (EASTBOUND)	06-195-0-0003-07-079	4	168	42	3.5	790		168	790		
TOTALS						8,188	4,000 1260	1,808	8,188	2	2,940

* SEE ITEM 429 (Concrete Structure Repair)



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CONSOLIDATED SUMMARY



SHEET 1 OF 5

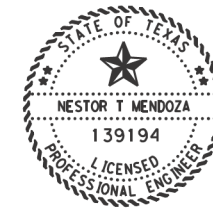


FED. RD. DIV. NO.	PROJECT NO.		SHEET NO.
6	SEE TITLE SHEET		11
STATE	STATE DIST.	COUNTY	
TEXAS	ODA	REEVES	
CONT.	SECT.	JOB	HIGHWAY NO.
0003	06	101, ETC.	IH 20

1 REVISED BY ADDENDUM #1 10/29/2024

TRAFFIC CONTROL SUMMARY

DESCRIPTION	STA	to	STA	LENGTH (FT)	503 7002	512 7001	512 7025	512 7049	 505 7001	 505 7003	545 7002	545 7004	545 7014	662 7065	662 7068	662 7100	662 7112	690 7134	6032 7001
					EA	LF	LF	LF	DAY	DAY	EA	EA	EA	LF	LF	LF	EA	EA	DAY
IH 20																			
MAINLANES																			
WESTBOUND	219+00		552+86	52,462	2	1020	1020	1020	200 240	200 240	12	12	12	13,120	52,462	52,462	3,935	2	100
	0+00		193+77																
EASTBOUND	219+00		552+86	52,462										13,120	52,462	52,462	3,935		100
	0+00		193+77																
PROJECT TOTAL					2	1,020	1,020	1,020	200 240	200 240	12	12	12	26,240	104,924	104,924	7,870	2	200



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CONSOLIDATED SUMMARY

SHEET 4 OF 5



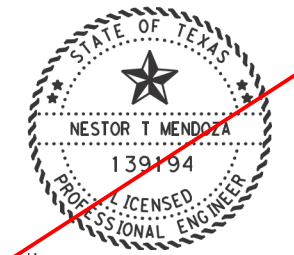
 **REVISED BY ADDENDUM #1 10/29/2024**

FED. RD. DIV. NO.	PROJECT NO.		SHEET NO.
6	SEE TITLE SHEET		14
STATE	STATE DIST.	COUNTY	
TEXAS	ODA	REEVES	
CONT.	SECT.	JOB	HIGHWAY NO.
0003	06	101, ETC.	IH 20

SUMMARY OF SMALL SIGNS

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 units or for the accuracy of the information contained herein. The user of this standard is advised to verify the accuracy of the information contained herein.

PLAN SHEET NO.	SIGN NO.	SIGN NOMENCLATURE	SIGN	DIMENSIONS	FLAT ALUMINUM (TYPE A)	EXAL ALUMINUM (TYPE G)	SM RD SGN ASSM TY XXXXX (X) XX (X-XXXX)				BRIDGE MOUNT CLEARANCE SIGNS (See Note 2)	
							POST TYPE	POSTS	ANCHOR TYPE	MOUNTING DESIGNATION		
										PREFABRICATED		TEXT or 2EXT = # of Ext
FRP = Fiberglass TWT = Thin-Wall 10BWG = 10 BWG S80 = Sch 80	1 or 2	UA=Universal Conc UB=Universal Bolt SA=Slipbase-Conc SB=Slipbase-Bolt WS=Wedge Steel WP=Wedge Plastic	P = "Plain" T = "T" U = "U"	BM = Extruded Wind Beam WC = 1.12 #/ft Wing Channel EXAL= Extruded Alum Sign Panels	TY = TYPE	TY N TY S						
	1	D10-2	MILE (31)	12 x 36			10BWG	1	SA	P	EXAL	
	2	R5-11T	FOR OFFICIAL OR EMERGENCY USE ONLY	48 x 48			10BWG	1	SA	T	EXAL	
	3	R5-11T	FOR OFFICIAL OR EMERGENCY USE ONLY	48 x 60			10BWG	1	SA	T	EXAL	
	4	D10-2	MILE (32)	12 x 36			10BWG	1	UA	P	EXAL	
	5	W8-13aT	BRIDGE MAY ICE IN COLD WEATHER	48 x 48			10BWG	1	SA	P	EXAL	
	6	D10-2	MILE (33)	12 x 36			10BWG	1	UA	P	EXAL	
	7	W13-2	EXIT / (20) MPH	48 x 60			S80	1	UA	T	EXAL	
	8	W8-13aT	BRIDGE MAY ICE IN COLD WEATHER	48 x 48			10BWG	1	SB	T	EXAL	
	9	W4-1R	SYMBOL - MERGE AHEAD RIGHT	48 x 48			10BWG	1	SB	T	EXAL	
	10	D10-2	MILE (34)	12 x 36			10BWG	1	UA	P	EXAL	
	11	M1-1 (2 dgt)	EAST - INTERSTATE (TEXAS) 20	24 x 24			10BWG	1	SB	P	EXAL	
	12	R2-1	SPEED LIMIT (80)	48 x 60			10BWG	2	UA	P	EXAL	
	13	D10-2	MILE (35)	12 x 36			10BWG	1	UA	P	EXAL	
	14	R5-11T	FOR OFFICIAL OR EMERGENCY USE ONLY	48 x 48			10BWG	1	SB	T	EXAL	
	15	D10-2	MILE (36)	12 x 36			10BWG	1	UA	P	EXAL	
	16	D10-2	MILE (37)	12 x 36			10BWG	1	UA	P	EXAL	
	17	W12-2	LOW CLEARANCE 16 (FT) -2 (IN)	36 x 36			10BWG	1	SB	T	EXAL	
	18	W13-5T	CURVE / (70) MPH	48 x 48			10BWG	1	SB	T	EXAL	
	19	W12-2	LOW CLEARANCE 16 (FT) -2 (IN)	48 x 48			10BWG	1	SB	T	EXAL	
	20	W12-2	LOW CLEARANCE 16 (FT) -2 (IN)	48 x 48			10BWG	1	SB	T	EXAL	
	21		OVERHEIGHT EXIT (37) WHEN FLASHING	48 x 48			10BWG	1	SB	T	EXAL	
	22	D9-10	INFO <TOURIST INFO TUNE RADIO TO 1610 AM	30 x 30			10BWG	1	SB	U	EXAL	
	23	W13-2	EXIT / (40) MPH	48 x 60			S80	1	SB	U	EXAL	
	24	W12-2	LOW CLEARANCE 16 (FT) -2 (IN)	36 x 36			10BWG	1	SB	T	EXAL	
	25	W4-1R	SYMBOL - MERGE AHEAD RIGHT	48 x 48			10BWG	1	SB	T	EXAL	
	26	D10-2	MILE (38)	12 x 36			10BWG	1	UA	P	EXAL	
	27	M1-1 (2 dgt)	EAST - INTERSTATE (TEXAS) 20	24 x 24			10BWG	1	SB	P	EXAL	
	28	R2-1	SPEED LIMIT (80)	48 x 60			10BWG	1	UA	P	EXAL	
	29	D10-2	MILE (39)	12 x 36			10BWG	1	UA	P	EXAL	
	30	D-9	SYMBOL - HOSPITAL	30 x 30			S80	1	SB	U	EXAL	



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 8/30/2024

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/>

- NOTE:**
- 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.
 - For installation of bridge mount clearance signs, see Bridge Mounted Clearance Sign Assembly (BMCS) Standard Sheet.
 - For Sign Support Descriptive Codes, see Sign Mounting Details Small Roadside Signs General Notes & Details SMD (GEN).

1 VOIDED BY ADDENDUM #1
 10/29/2024



SUMMARY OF SMALL SIGNS

SOSS

FILE: sums16.dgn	DW: TxDOT	CK: TxDOT	DW: TxDOT	CK: TxDOT
© TxDOT May 1987	CONT	SECT	JOB	HIGHWAY
REVISIONS	0003	06	101, ETC.	IH 20
4-16	DIST	COUNTY	SHEET NO.	
8-16	ODA	REEVES		95

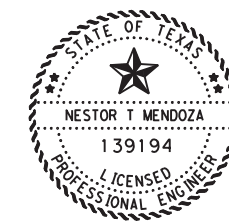
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SUMMARY OF SMALL SIGNS

PLAN SHEET NO.	SIGN NO.	SIGN NOMENCLATURE	SIGN	DIMENSIONS	FLAT ALUMINUM (TYPE A)	EXAL ALUMINUM (TYPE G)	SM RD SGN ASSM TY XXXXX (X) XX (X-XXXX)				BRIDGE MOUNT CLEARANCE SIGNS (See Note 2)	
							POST TYPE	POSTS	ANCHOR TYPE	MOUNTING DESIGNATION		
										PREFABRICATED		TEXT or 2EXT - of Ext
							FRP - Fiberglass TWT - Thin-Wall 10BWG - 10 BWG S80 - Sch 80	1 or 2	UA-Universal Conc UB-Universal Bolt SA-Slipbase-Conc SB-Slipbase-Bolt WS-Wedge Steel WP-Wedge Plastic	P = "Plain" T = "T" U = "U"	BM - Extruded Wind Beam WC - 1.12 "/ft Wing Channel EXAL - Extruded Alum Sign Panels	TY - TYPE TY N TY S
	1	D10-2	MILE(31)	12 x 36			TWT	1	SA	P		
	2	R5-11T	FOR OFFICIAL OR EMERGENCY VEH USE ONLY	48 x 48			S80	1	SB	T		
	3	R5-11T	FOR OFFICIAL OR EMERGENCY VEH USE ONLY	48 x 48			S80	1	SB	T		
	4	D10-2	MILE(32)	12 x 36			TWT	1	SA	P		
	5	W8-13aT	BRIDGE MAY ICE IN COLD WEATHER	48 x 48			S80	1	SB	T		
	6	D10-2	MILE(33)	12 x 36			TWT	1	SA	P		
	7	W13-2	EXIT / (20) MPH	48 x 60			10BWG	2	SB	P		
	8	W8-13aT	BRIDGE MAY ICE IN COLD WEATHER	48 x 48			S80	1	SB	T		
	9	W4-1R	SYMBOL - MERGE AHEAD RIGHT	48 x 48			S80	1	SB	P		
	10	D10-2	MILE(34)	12 x 36			TWT	1	SA	P		
	11	M1-1(2 dgt)	EAST - INTERSTATE (TEXAS) 20	24 x 24			S80	1	SB	P		
	12	R2-1	SPEED LIMIT (80)	48 x 60			10BWG	1	SB	P		
	13	D10-2	MILE(35)	12 x 36			TWT	1	SA	P		
	14	R5-11T	FOR OFFICIAL OR EMERGENCY VEH USE ONLY	48 x 48			10BWG	1	SB	T		
	15	D10-2	MILE(36)	12 x 36			TWT	1	SA	P		
	16	D10-2	MILE(37)	12 x 36			TWT	1	SA	P		
	17	W12-2	LOW CLEARANCE 16 (FT)-2 (IN)	36 x 36			S80	1	SB	T		
	18	W13-5T	CURVE / (70) MPH	48 x 48			S80	1	SB	T		
	19	W12-2	LOW CLEARANCE 16 (FT)-2 (IN)	48 x 48			S80	1	SB	T		
	20	W12-2	LOW CLEARANCE 16 (FT)-2 (IN)	48 x 48			S80	1	SB	T		
	21		OVERHEIGHT EXIT (37) WHEN FLASHING	48 x 48			S80	1	SB	T		
	22	D9-10	INFO <TOURIST INFO TUNE RADIO TO 1610 AM>	30 x 30			S80	1	SB	T		
	23	W13-2	EXIT / (40) MPH	48 x 60			10BWG	2	SB	P		
	24	W12-2	LOW CLEARANCE 16 (FT)-2 (IN)	36 x 36			S80	1	SB	T		
	25	W4-1R	SYMBOL - MERGE AHEAD RIGHT	48 x 48			S80	1	SB	T		
	26	D10-2	MILE(38)	12 x 36			TWT	1	SA	P		
	27	M1-1(2 dgt)	EAST - INTERSTATE (TEXAS) 20	24 x 24			S80	1	SB	P		
	28	R2-1	SPEED LIMIT (80)	48 x 60			10BWG	2	SB	P		
	29	D10-2	MILE(39)	12 x 36			TWT	1	SA	P		
	30	D-9	SYMBOL - HOSPITAL	30 x 30			S80	1	SB	T		

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: 10/24/2024
FILE: 095A SUMMARY OF SMALL SIGN



DocuSigned by:
Nestor T Mendoza, P.E.
9104D8EB1809444...
10/24/2024

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/>

- NOTE:**
- 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.
 - For installation of bridge mount clearance signs, see Bridge Mounted Clearance Sign Assembly (BMCS) Standard Sheet.
 - For Sign Support Descriptive Codes, see Sign Mounting Details Small Roadside Signs General Notes & Details SMD(GEN).

ADDED BY ADDENDUM 1
10/29/2024



SUMMARY OF SMALL SIGNS

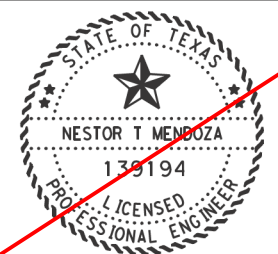
SOSS

FILE: sum16.dgn	DN: IxDOI	CK: IxDOI	DW: IxDOI	CK: IxDOI
© TxDOT May 1987	CONT	SECT	JOB	HIGHWAY
REVISIONS	0003 06	101.ETC.	IH 20	
4-16	DIST	COUNTY	SHEET NO.	
8-16	00A	REEVES	95A	

SUMMARY OF SMALL SIGNS

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: 8-16-16
 FILE:

PLAN SHEET NO.	SIGN NO.	SIGN NOMENCLATURE	SIGN	DIMENSIONS	FLAT ALUMINUM (TYPE A)	EXAL ALUMINUM (TYPE G)	SM RD SGN ASSM TY XXXXX (X) XX (X-XXXX)				BRIDGE MOUNT CLEARANCE SIGNS (See Note 2)	
							POST TYPE	POSTS	ANCHOR TYPE	MOUNTING DESIGNATION		
										PREFABRICATED		TEXT or 2EXT = # of Ext
FRP = Fiberglass TWT = Thin-Wall 10BWG = 10 BWG S80 = Sch 80	1 or 2	UA=Universal Conc UB=Universal Bolt SA=Slipbase-Conc SB=Slipbase-Bolt WS=Wedge Steel WP=Wedge Plastic	P = "Plain" T = "T" U = "U"	BM = Extruded Wind Beam WC = 1.12 #/ft Wing Channel EXAL= Extruded Alum Sign Panels	TY = TYPE TY N TY S							
31	W8-13aT		BRIDGE MAY ICE IN COLD WEATHER	48 x 48			10BWG	1	SB	T	EXAL	
32	I-2aT		(PECOS) CITY LIMIT POP (12,916)	36 x 48			10BWG	1	SB	P	EXAL	
33	D10-2		MILE (40)	12 x 36			10BWG	1	UA	P	EXAL	
34	W13-2		EXIT / (20) MPH	48 x 60			10BWG	1	SB	T	EXAL	
35	W4-1R		SYMBOL - MERGE AHEAD RIGHT	48 x 48			10BWG	1	SB	P	EXAL	
36	M1-1(2 dgt)		EAST - INTERSTATE (TEXAS) 20	24 x 24			10BWG	1	SB	P	EXAL	
37	W13-5T		CURVE / (70) MPH	48 x 48			10BWG	1	SB	T	EXAL	
38	W13-2		EXIT / (50) MPH	48 x 60			10BWG	1	SB	T	EXAL	
39	W8-13aT		BRIDGE MAY ICE IN COLD WEATHER	48 x 48			10BWG	1	SB	T	EXAL	
40	W4-1R		SYMBOL - MERGE RIGHT AHEAD	48 x 48			10BWG	1	SB	P	EXAL	
41	D-9		SYMBOL - HOSPITAL	30 x 30			10BWG	1	SB	P	EXAL	
42	W13-2		EXIT / (25) MPH	48 x 60			10BWG	1	SB	T	EXAL	
43	W4-1R		SYMBOL - MERGE RIGHT AHEAD	48 x 48			10BWG	1	SB	T	EXAL	
45	D10-2		MILE (40)	12 x 36			10BWG	1	UA	P	EXAL	
46	R2-1		SPEED LIMIT (80)	48 x 60			10BWG	2	UA	P	EXAL	
47	R4-2aT		LEFT LANE FOR PASSING ONLY	36 x 54			10BWG	1	SB	U	EXAL	
48	R4-2aT		LEFT LANE FOR PASSING ONLY	36 x 54			10BWG	1	SB	U	EXAL	
49	D10-2		MILE (39)	12 x 36			10BWG	1	SB	T	EXAL	
50	R5-11T		FOR OFFICIAL OR EMERGENCY VEH USE ONLY	48 x 48			10BWG	1	SB	T	EXAL	
51	R5-11T		FOR OFFICIAL OR EMERGENCY VEH USE ONLY	48 x 48			10BWG	1	SB	T	EXAL	
52	W13-5T		CURVE / (70) MPH	48 x 48			S80	1	SB	U	EXAL	
53	W12-2		LOW CLEARANCE 17(FT)-3(IN)	48 x 48			10BWG	1	UA	T	EXAL	
54	W13-2		EXIT / (30) MPH	48 x 60			10BWG	1	SB	U	EXAL	
55	D10-2		MILE (38)	12 x 36			10BWG	1	SB	P	EXAL	
56	W12-2		LOW CLEARANCE 17(FT)-3(IN)	48 x 48			10BWG	1	SB	T	EXAL	
57	W4-1R		SYMBOL - MERGE RIGHT AHEAD	48 x 48			10BWG	1	SB	P	EXAL	
58	M1-1(2 dgt)		WEST - INTERSTATE (TEXAS) 20	24 x 24			10BWG	1	SB	P	EXAL	
59	R-2		SPEED LIMIT (80)	30 x 36			10BWG	1	SB	T	EXAL	
60	R19-6T		LITTERING PROHIB \$10-2000 FINE STATE LAW	48 x 30			10BWG	1	UA	T	EXAL	
61	W8-13aT		BRIDGE MAY ICE IN COLD WEATHER	48 x 48			10BWG	1	SB	T	EXAL	



DocuSigned by:
Nestor T. Mendoza, P.E.
 9104D8EB1809444...
 8/30/2024

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/>

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 - For Sign Support Descriptive Codes, see Sign Mounting Details Small Roadside Signs General Notes & Details SMD(GEN).

1 VOIDED BY ADDENDUM #1
 10/29/2024



SUMMARY OF SMALL SIGNS

SOSS

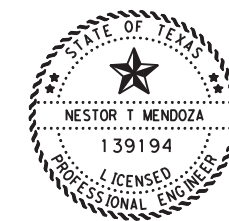
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© TxDOT May 1987	CONT: 0003	SECT: 06	JOB: 101, ETC.	HIGHWAY: IH 20
4-16 8-16	REVISIONS:	DIST: ODA	COUNTY: REEVES	SHEET NO.: 96

SUMMARY OF SMALL SIGNS

PLAN SHEET NO.	SIGN NO.	SIGN NOMENCLATURE	SIGN	DIMENSIONS	FLAT ALUMINUM (TYPE A)	EXAL ALUMINUM (TYPE G)	SM RD SGN ASSM TY XXXXX (X) XX (X-XXXX)				BRIDGE MOUNT CLEARANCE SIGNS (See Note 2)
							POST TYPE	POSTS	ANCHOR TYPE	MOUNTING DESIGNATION	
							FRP - Fiberglass TWT - Thin-Wall 10BWG - 10 BWG S80 - Sch 80	1 or 2	UA-Universal Conc UB-Universal Bolt SA-Slipbase-Conc SB-Slipbase-Bolt WS-Wedge Steel WP-Wedge Plastic	PREFABRICATED P - "Plain" T - "T" U - "U" TEXT or 2EXT - of Ext BM - Extruded Wind Beam WC - 1.12 "/ft Wing Channel EXAL - Extruded Alum Sign Panels	
	31	W8-13aT	BRIDGE MAY ICE IN COLD WEATHER	48 x 48			S80	1	SB	T	
	32	I-2aT	(PECOS) CITY LIMIT POP (12,916)	36 x 48			S80	1	SB	T	
	33	D10-2	MILE(40)	12 x 36			TWT	1	SA	P	
	34	W13-2	EXIT / (20) MPH	48 x 60			10BWG	2	SB	P	
	35	W4-1R	SYMBOL - MERGE AHEAD RIGHT	48 x 48			S80	1	SB	T	
	36	M1-1(2 dgt)	EAST - INTERSTATE (TEXAS) 20	24 x 24			S80	1	SB	P	
	37	W13-5T	CURVE / (70) MPH	48 x 48			S80	1	SB	T	
	38	W13-2	EXIT / (50) MPH	48 x 60			10BWG	2	SB	P	
	39	W8-13aT	BRIDGE MAY ICE IN COLD WEATHER	48 x 48			S80	1	SB	T	
	40	W4-1R	SYMBOL - MERGE AHEAD RIGHT	48 x 48			S80	1	SB	T	
	41	D-9	SYMBOL - HOSPITAL	30 x 30			S80	1	SB	P	
	42	W13-2	EXIT / (25) MPH	48 x 60			10BWG	2	SB	P	
	43	W4-1R	SYMBOL - MERGE AHEAD RIGHT	48 x 48			S80	1	SB	T	
	44	D10-2	MILE(40)	12 x 36			TWT	1	SA	P	
	45	R2-1	SPEED LIMIT (80)	48 x 60			10BWG	2	SB	P	
	46	R4-2aT	LEFT LANE FOR PASSING ONLY	36 x 54			S80	1	SB	T	
	47	R4-2aT	LEFT LANE FOR PASSING ONLY	36 x 54			S80	1	SB	T	
	48	D10-2	MILE(39)	12 x 36			TWT	1	SA	P	
	49	R5-11T	FOR OFFICIAL OR EMERGENCY VEH USE ONLY	48 x 48			S80	1	SB	T	
	50	R5-11T	FOR OFFICIAL OR EMERGENCY VEH USE ONLY	48 x 48			S80	1	SB	T	
	51	W13-5T	CURVE / (70) MPH	48 x 48			S80	1	SB	T	
	52	W12-2	LOW CLEARANCE 17(FT) - 3(IN)	48 x 48			S80	1	SB	T	
	53	W13-2	EXIT / (30) MPH	48 x 60			10BWG	2	SB	P	
	54	D10-2	MILE(38)	12 x 36			TWT	1	SA	P	
	55	W12-2	LOW CLEARANCE 17(FT) - 3(IN)	48 x 48			S80	1	SB	T	
	56	W4-1R	SYMBOL - MERGE AHEAD RIGHT	48 x 48			S80	1	SB	T	
	57	M1-1(2 dgt)	WEST - INTERSTATE (TEXAS) 20	24 x 24			S80	1	SB	P	
	58	R2-1	SPEED LIMIT (80)	48 x 60			S80	1	SB	T	
	59	R19-6T	LITTERING PROHIB \$10-2000 FINE STATE LAW	48 x 30			S80	1	SB	T	
	60	W8-13aT	BRIDGE MAY ICE IN COLD WEATHER	48 x 48			S80	1	SB	T	

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: 10/24/2024
FILE: 096A SUMMARY OF SMALL SIGNS



DocuSigned by:
Nestor T Mendoza, P.E.
9104D8EB1809444...
10/24/2024

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/>

- NOTE:**
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 - For installation of bridge mount clearance signs, see Bridge Mounted Clearance Sign Assembly (BMCS) Standard Sheet.
 - For Sign Support Descriptive Codes, see Sign Mounting Details Small Roadside Signs General Notes & Details SMD(GEN).

ADDED BY ADDENDUM 1
10/29/2024



SUMMARY OF SMALL SIGNS

SOSS

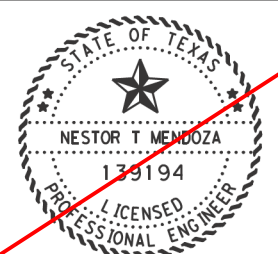
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© TxDOT May 1987	CONT	SECT	JOB	HIGHWAY
REVISIONS	0003 06	101.ETC.	IH 20	
4-16	DIST	COUNTY	SHEET NO.	
8-16	00A	REEVES	96A	

SUMMARY OF SMALL SIGNS

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:

PLAN SHEET NO.	SIGN NO.	SIGN NOMENCLATURE	SIGN	DIMENSIONS	FLAT ALUMINUM (TYPE A)	EXAL ALUMINUM (TYPE G)	SM RD SGN ASSM TY XXXXX (X) XX (X-XXXX)				BRIDGE MOUNT CLEARANCE SIGNS (See Note 2)	
							POST TYPE	POSTS	ANCHOR TYPE	MOUNTING DESIGNATION		
							FRP = Fiberglass TWT = Thin-Wall 10BWG = 10 BWG S80 = Sch 80	1 or 2	UA=Universal Conc UB=Universal Bolt SA=Slipbase-Conc SB=Slipbase-Bolt WS=Wedge Steel WP=Wedge Plastic	PREFABRICATED		1EXT or 2EXT = # of Ext BM = Extruded Wind Beam WC = 1.12 #/ft Wing Channel EXAL= Extruded Alum Sign Panels
	62	D10-2	MILE (37)	12 x 36			10BWG	1	UA	P	EXAL	
	63	D10-2	MILE (36)	12 x 36			10BWG	1	UA	P	EXAL	
	64	R5-11T	FOR OFFICAL OR EMERGENCY VEH USE ONLY	48 x 48			10BWG	1	SB	T	EXAL	
	65	D10-2	MILE (35)	12 x 36			10BWG	1	UA	P	EXAL	
	66	W13-5	EXIT / (20) MPH	48 x 60			10BWG	1	UA	U	EXAL	
	67	W8-13aT	BRIDGE MAY ICE IN COLD WEATHER	48 x 48			S80	1	UA	T	EXAL	
	68	D10-2	MILE (34)	12 x 36			10BWG	1	UA	P	EXAL	
	69	W4-1R	SYMBOL - MERGE RIGHT AHEAD	48 x 48			10BWG	1	SB	T	EXAL	
	70	M1-1(2 dgt)	WEST - INTERSTATE (TEXAS) 20	24 x 24			10BWG	1	SB	P	EXAL	
	71	R-2	SPEED LIMIT (80)	30 x 36			10BWG	2	UA	P	EXAL	
	72	D10-2	MILE (33) MPH	12 x 36			10BWG	1	UA	P	EXAL	
	73	W8-13aT	BRIDGE MAY ICE IN COLD WEATHER	48 x 48			S80	1	SB	T	EXAL	
	74	D10-2	MILE (32)	12 x 36			10BWG	1	UA	P	EXAL	
	75	D10-2	MILE (31)	12 x 36			10BWG	1	UA	P	EXAL	



DocuSigned by:
Nestor T. Mendoza, P.E.
 9104D8EB180944...
 8/30/2024

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"

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1 VOIDED BY ADDENDUM #1
 10/29/2024



SUMMARY OF SMALL SIGNS

SOSS

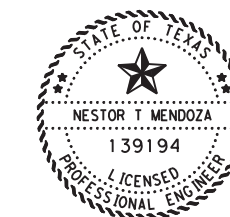
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© TxDOT May 1987	CONT	SECT	JOB	HIGHWAY
REVISIONS	0003	06	101, ETC.	IH 20
4-16	DIST	COUNTY	SHEET NO.	
8-16	ODA	REEVES	97	

SUMMARY OF SMALL SIGNS

PLAN SHEET NO.	SIGN NO.	SIGN NOMENCLATURE	SIGN	DIMENSIONS	FLAT ALUMINUM (TYPE A)	EXAL ALUMINUM (TYPE G)	SM RD SGN ASSM TY XXXXX (X) XX (X-XXXX)				BRIDGE MOUNT CLEARANCE SIGNS (See Note 2)	
							POST TYPE	POSTS	ANCHOR TYPE	MOUNTING DESIGNATION		
										PREFABRICATED		TEXT or 2EXT - of Ext
							FRP - Fiberglass TWT - Thin-Wall 10BWG - 10 BWG S80 - Sch 80	1 or 2	UA-Universal Conc UB-Universal Bolt SA-Slipbase-Conc SB-Slipbase-Bolt WS-Wedge Steel WP-Wedge Plastic	P = "Plain" T = "T" U = "U"	BM - Extruded Wind Beam WC - 1.12 "/ft Wing Channel EXAL - Extruded Alum Sign Panels	TY - TYPE TY N TY S
	61	D10-2	MILE(37)	12 x 36			TWT	1	SA	P		
	62	D10-2	MILE(36)	12 x 36			TWT	1	SA	P		
	63	R5-11T	FOR OFFICIAL OR EMERGENCY VEH USE ONLY	48 x 48			S80	1	SB	T		
	64	D10-2	MILE(35)	12 x 36			TWT	1	SA	P		
	65	W13-2	EXIT / (20) MPH	48 x 60			10BWG	2	SB	P		
	66	W8-13aT	BRIDGE MAY ICE IN COLD WEATHER	48 x 48			S80	1	SB	T		
	67	D10-2	MILE(34)	12 x 36			TWT	1	SA	P		
	68	W4-1R	SYMBOL - MERGE AHEAD RIGHT	48 x 48			S80	1	SB	T		
	69	M1-1(2 dgt)	WEST - INTERSTATE (TEXAS) 20	24 x 24			S80	1	SB	P		
	70	R2-1	SPEED LIMIT (80)	30 x 36			S80	1	SB	T		
	71	D10-2	MILE(33)	12 x 36			TWT	1	SA	P		
	72	W8-13aT	BRIDGE MAY ICE IN COLD WEATHER	48 x 48			S80	1	SB	T		
	73	D10-2	MILE(32)	12 x 36			TWT	1	SA	P		
	74	D10-2	MILE(31)	12 x 36			TWT	1	SA	P		

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DATE: 10/24/2024
FILE: 097A SUMMARY OF SMALL SIGNS



DocuSigned by:
Nestor T Mendoza, P.E.
9104D8EB1809444...
10/24/2024

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"

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 - For Sign Support Descriptive Codes, see Sign Mounting Details Small Roadside Signs General Notes & Details SMD(GEN).

ADDED BY ADDENDUM 1
10/29/2024



SUMMARY OF SMALL SIGNS

SOSS

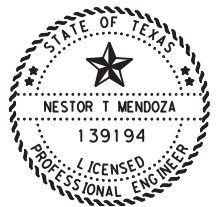
FILE: sum16.dgn	DN: IxDOI	CK: IxDOI	DW: IxDOI	CK: IxDOI
© TxDOT May 1987	CONT	SECT	JOB	HIGHWAY
REVISIONS	0003 06	101.ETC.		IH 20
4-16	DIST	COUNTY	SHEET NO.	
8-16	00A	REEVES	97A	

UNION PACIFIC RAILROAD

CSJ 0003-06-101 (IH 20 @ SH 17) REEVES COUNTY											
DOT #	CROSSING TYPE	RR COMPANY OPERATOR	RR COMPANY OWNER	RR MILEPOST	RR SUBDIVISION	CITY	COUNTY	ROADWAY	CSJ	LATITUDE (LAT)°	LONGITUDE (LONG)°
796229F	Public	UPRR	UPRR	651.520	Toyah	Pecos	Reeves	CO RD 408	0003-06-101	31.4023577°	-103.2699113°
796228Y	Public	UPRR	UPRR	653.590	Toyah	Pecos	Reeves	CO RD 409	0003-06-101	31.3912329°	-103.3020746°
796225D	Public	UPRR	UPRR	656.810	Toyah	Pecos	Reeves	CO RD 414	0003-06-101	31.3738524°	-103.6523169°

PECOS VALLEY SOUTHERN RAILWAY

CSJ 0003-06-101 (IH 20) REEVES COUNTY											
DOT #	CROSSING TYPE	RR COMPANY OPERATOR	RR COMPANY OWNER	RR MILEPOST	RR SUBDIVISION	CITY	COUNTY	ROADWAY	CSJ	LATITUDE (LAT)°	LONGITUDE (LONG)°
865925B	Public	WATCO	PVSR	24.800	Pecos	Pecos	Reeves	IH 20	0003-06-101	31.39896526°	-103.5220102°
925043A	Private	WATCO	PVSR	24.800	Pecos	Pecos	Reeves	IH 20	0003-06-101	31.3994312°	-103.5220474°
865876G	Public	WATCO	PVSR	2.350	Pecos	Pecos	Reeves	PV 0000	0003-06-101	31.3984977°	-103.5222546°



DocuSigned by:
Nestor T. Mendoza, P.E.
 9104D8EB1809444...
 10/30/2024

**RAILROAD
SCOPE OF WORK**



FED. RD. DIV. NO.	PROJECT NO.		SHEET NO.
6	SEE TITLE SHEET		133A
STATE	STATE DIST.	COUNTY	
TEXAS	ODA	REEVES	
CONT.	SECT.	JOB	HIGHWAY NO.
0003	06	101, ETC.	IH 20



ADDED BY ADDENDUM 1 10/29/2024