2.2A

8-9

10-11

17-28

30-31 32-34

39-42 43-44

29

35

SHEET NO.

INDEX OF SHEETS

EXTIMATE & QUANTITY SHEET

DESCRIPTION

GENERAL

TITLE SHEET

GENERAL NOTES

LOCATION MAPS

SIGN DETAILS

TCP (1-1)-18

TCP (5-1) -18

WZ (RS) -22

SMD (TY G) -08 WV & IZ-14

QUANTITY SUMMARIES

SUMMARY OF LARGE SIGNS

ROADSIDE SIGN ANCHOR PAD DETAILS

IRAFFIC CONTROL PLAN

TCP(1-4)-18 THRU TCP(1-5)-18

TCP (2-4) -18 THRU TCP (2-6) -18

TCP(6-8)-14 THRU TCP (6-9)-14

SMD (2-1) -08 THRU SMD (2-4) -08

SMD(8W1)-08 THRU SMD(8W2)-08

ENVIRONMENTAL ISSUES

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

SPECIFICATIONS ADOPTED BY THE TEXAS DEPARTMENT OF TRANSPORTATION NOVEMBER 1, 2014 AND SPECIAL SPECIFICATION ITEMS INCLUDED IN THE CONTRACT SHALL GOVERN ON THIS PROJECT.

BC(1)-21 THRU BC(12)-21

STATE OF TEXAS DEPARTMENT OF TRANSPORTATION

RMC 6398-93-001 1

PLANS OF PROPOSED STATE HIGHWAY ROUTINE MAINTENANCE CONTRACT TYPE OF WORK:

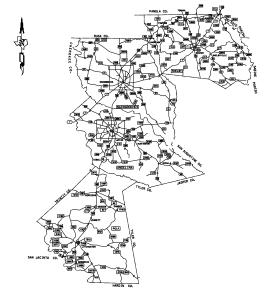
LARGE SIGN MAINTENANCE

RMC 6398-93-001

US 59, ETC.

ANGELINA COUNTY, ETC.

LIMITS: VARIOUS LOCATIONS IN ANGELINA, POLK, NACOGDOCHES, & SHELBY COUNTIES



© 2022 BY TEXAS DEPARTMENT OF TRANSPORTATION. ALL RIGHTS RESERVED.

BARRICADES AND WARNING SIGNS

THE CONTRACTOR SHALL PROVIDE AND ERECT WARNING SIGNS IN ACCORDANCE WITH THE BARRICADE & CONSTRUCTION STANDARDS, TCP STANDARDS, THE "TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" AND AS DIRECTED.

Texas Department of Transportation®

SUBMINITED OF LETTING: LAD The PE. DISTRICT ATRACTIC ENGINEER E-GOMBANDSAIGH-FADBy:LETTING:

Jesemy King, P.E.
USTRICT MAINTENANCE ENGINEER
5135292FE4184A4...

APPROVED FOR LETTING: DUREGIOROGE ORERATIONS

DATE

DATE 3/24/2022

3/24/2022

3/24/2022

DATE

Project Number: RMC 6398-93-001

Control: 6398-93-001 County: Angelina, etc.

Highway: US 59, etc.

GENERAL NOTES:

Existing regulatory, warning and guide signs within project worksites are to remain visible to the traveling public at all times. If a sign must be repositioned during construction operations, move and install the sign to an approved location. Use care when working near existing signs and repair or replace signs damaged by work operations. All work involved repositioning existing signs will be considered subsidiary to various bid items.

Use approved safety and personal protection equipment (PPE) as directed. Non-compliance with the Safety, Qualification and Certification requirements will be grounds for suspension of work.

Maintain adequate surface drainage throughout the limits of the project during all phases of construction.

Remove dirt, silt, rocks, debris and other foreign matter that accumulates in structures due to the Contractor's operations as directed. Keep stream channels open at all times. This work will not be paid for directly, but will be subsidiary to pertinent items.

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

Don Maddux-District Traffic Systems Admin Donald.Maddux@txdot.gov Seth Franks-District Traffic Engineer

Seth.franks@txdot.gov

Item 5: Control of the Work

Contact appropriate utility companies to locate underground utilities prior to drilling foundations, installing or removing underground conduits, or any other excavating. Use care when working near utilities or existing storm sewers to prevent damage. Use One-Call for locates.

If unforeseen utility adjustments are encountered during construction operations, alter operations and continue to prosecute the contract in such a manner that will allow utility adjustments to be made by others. An extension of working time may be granted for any delays caused by the utility adjustments, if deemed necessary.

Remove all debris that may be deposited by construction operations within each worksite, and properly dispose of at the end of each workday. Do not dump or stockpile collected litter on State property. Litter removal will not be measured or paid for directly, but will be subsidiary to various bid items.

Item 7: Legal Relations and Responsibilities

The proposed work of this project is for Maintenance of Large Signs. This activity maintains the original line and grade, hydraulic capacity and original purpose to the site. Therefore, this project meets the definition of a routine maintenance activity as defined in the TPDES General Permit No. TXR150000 issued March 5, 2013 and TCEQ's TPDES CGP does not apply.

Project Number: RMC 6398-93-001 Sheet 2

Control: 6398-93-001 County: Angelina, etc.

Highway: US 59, etc.

No significant traffic generator events identified.

Item 8: Prosecution and Progress

For this project, working days will be computed and charged in accordance with Section 8.3.1.4, "Standard Workweek

Item 9: Measurement and Payment

This Contract includes callout work. In accordance with Article 9.2., "Plans Quantity Measurement", plans quantity measurement requirements are not applicable. The quantities shown are for estimates only and payment will be based on the actual quantities placed.

Item 416: Drilled Shaft Foundations

Note and heed all utility warnings before digging in the vicinity of underground utilities.

Locate existing utilities before excavating for foundations. Take adequate precautions to prevent damage to existing storm sewers and public or private utilities.

Item 421: Hydraulic Cement Concrete

Curing facilities and strength testing equipment, for acceptance testing, will be provided at the District's Signal Shop located in Lufkin at 1805 N. Timberland Drive.

Item 502: Barricades, Signs, and Traffic Handling

Traffic Control Plan (TCP):

Furnish and maintain all warning signs, flaggers, channelizing devices, etc. required for Traffic Control on this project in accordance with Item 502, except for measurement and payment. This work will not be paid for directly but will be subsidiary to pertinent items.

Restrict construction work to single lane widths with only minor disruptions in traffic flow. Lane closures shall conform to the Traffic Control Plan for lane closures as shown in the plans. No overnight closures will be permitted.

Plan the sequence of work to minimize the time lane closures are in place. Install lane closures only where construction operations are anticipated to start within 1 hr. and limited to the amount of lane that can be reached by the construction activity within 2 hr., unless otherwise approved.

No lane closures will be allowed on US 59 after 12:00pm (Noon) on Fridays, or on days preceding Major Holidays, unless otherwise approved.

Provide temporary rumble strips as shown on WZ(RS)-22.

General Notes General Notes Sheet B Sheet A

Project Number: RMC 6398-93-001

County: Angelina, etc. Control: 6398-93-001

Highway: US 59, etc.

Provide adequate flaggers to protect the traveling public when working on or near a roadway carrying traffic. All flaggers shall wear hardhats and reflective vests.

All workers on TxDOT right-of-way must wear reflective clothing meeting ANSI Class II requirements during the day and ANSI Class III requirements during the night.

Install "Be Prepared to Stop" (CW3-4) and "Flagger Ahead" (CW20-7aD) signs when flaggers are present. Position the signs where good visibility and traffic control can be maintained.

When directed, use a flashing arrow board in addition to the required signs to warn motorists of flaggers.

Open all traffic lanes to traffic at the close of work each day.

Notify the Engineer prior to placing any materials or equipment on the right of way. Locate equipment, stockpiles or other materials not in use as far as possible from the driving lanes and in no case closer than 30 ft. unless otherwise authorized. Any equipment, stockpiles, materials placed within 30 ft. of the driving lane must have adequate signs, barricades or other warning devices as approved. As a minimum place an 8 ft. wide TY III Barricade or barrels on the approach side of each site that is within 30 ft. of the driving lane. Use TY III Barricade or barrels for the site similarly on the departure side if the location is within 30 ft. of the opposing traffic lane.

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

Item 506: Temporary Erosion, Sedimentation, and Environmental Controls

Due to the limited soil disturbing nature of this project, temporary erosion control work has not been included. However, the SW3P for this project shall consist of any erosion control or pollution control items deemed necessary by the Engineer. Should this work become necessary, it will be paid for in accordance with Article 4.4, "Changes in the Work".

Item 654: Sign Walkways

Disconnect and isolate existing electrical power supply. Remove sign lighting fixtures. Removal includes ballast boxes and any related components no longer needed at the locations shown on the plans. Disconnect and remove conductors from abandoned circuits. Remove abandoned conduit to a point six inches below final grade. This work will not be paid for directly, but will be considered subsidiary to the various bit items.

Project Number: RMC 6398-93-001 Sheet 2A

Control: 6398-93-001

County: Angelina, etc.

Highway: US 59, etc.

Item 6185: Truck Mounted Attenuator (TMA) and Trailer Attenuator (TA)

One (1) TMA (stationary) will be required for this project. The contractor will be responsible for determining if multiple operations will be ongoing at the same time to determine the total number of TMAs needed for the project.

General Notes Sheet C General Notes Sheet D



CONTROLLING PROJECT ID 6398-93-001

Estimate & Quantity Sheet

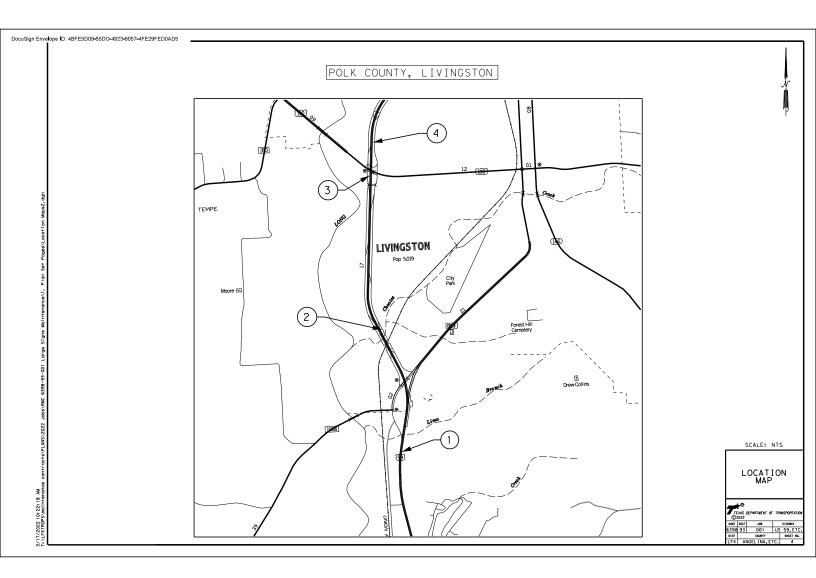
COUNTY Angelina

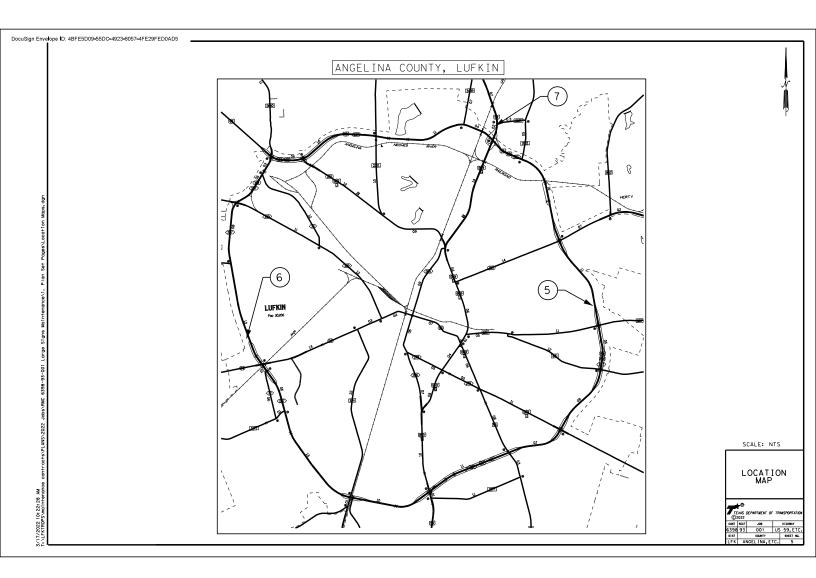
| | | CONTROL SECTION | ом јов | 6398-9 | 3-001 | | |
|-----|-----------|--|--------|-----------|-------|------------|-------------------------|
| | | PROJ | ECT ID | A0018 | 6029 | 1 | |
| | | C | OUNTY | Ange | lina | TOTAL EST. | TOTAL F IN AL |
| | | HIG | HWAY | USOC | 059 | 1 | THAL |
| ALT | BID CODE | DESCRIPTION | UNIT | EST. | FINAL | 1 | |
| | 416-6016 | DRILL SHAFT (SIGN MTS) (12 IN) | LF | 14.000 | | 14.000 | |
| | 432-6007 | RIPRAP (CONC)(CL C) | CY | 1.300 | | 1.300 | |
| | 500-6001 | MOBILIZATION | LS | 1.000 | | 1.000 | |
| | 502-6001 | BARRICADES, SIGNS AND TRAFFIC HANDLING | МО | 2.000 | | 2.000 | |
| | 636-6001 | ALUMINUM SIGNS (TY A) | SF | 18.000 | | 18.000 | |
| | 636-6002 | ALUMINUM SIGNS (TY G) | SF | 890.250 | | 890.250 | |
| | 636-6008 | REPLACE EXISTING ALUMINUM SIGNS(TY G) | SF | 108.000 | | 108.000 | |
| | 636-6009 | REPLACE EXISTING ALUMINUM SIGNS(TY O) | SF | 1,613.750 | | 1,613.750 | |
| | 647-6001 | INSTALL LRSS (STRUCT STEEL) | LB | 3,585.100 | | 3,585.100 | |
| | 647-6003 | REMOVE LRSA | EA | 2.000 | | 2.000 | |
| | 654-6007 | REMOVE SIGN WALKWAY | EA | 3.000 | | 3.000 | |
| | 6185-6002 | TMA (STATIONARY) | DAY | 19.000 | | 19.000 | |
| | 7052-6046 | LANE CLOSURE (SETUP AND REMOV)(TY 5) | EA | 4.000 | | 4.000 | |
| | 7052-6047 | LANE CLOSURE (SETUP AND REMOV)(TY 6) | EA | 2.000 | | 2.000 | |
| | 7052-6063 | LANE CLOSURE (MAINTENANCE) (TY 5) | HR | 8.000 | | 8.000 | |
| | 7052-6064 | LANE CLOSURE (MAINTENANCE) (TY 6) | HR | 12,000 | | 12,000 | |

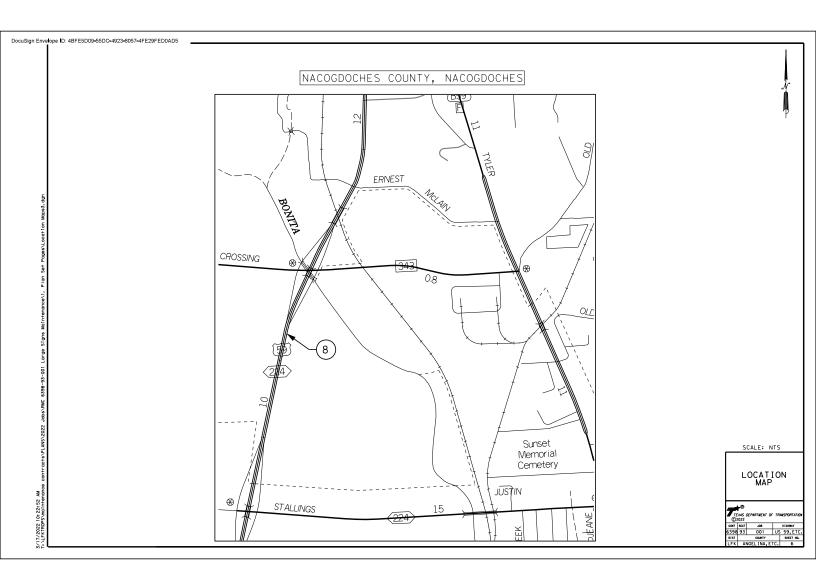
DISTRICT Lufkin HIGHWAY US0059

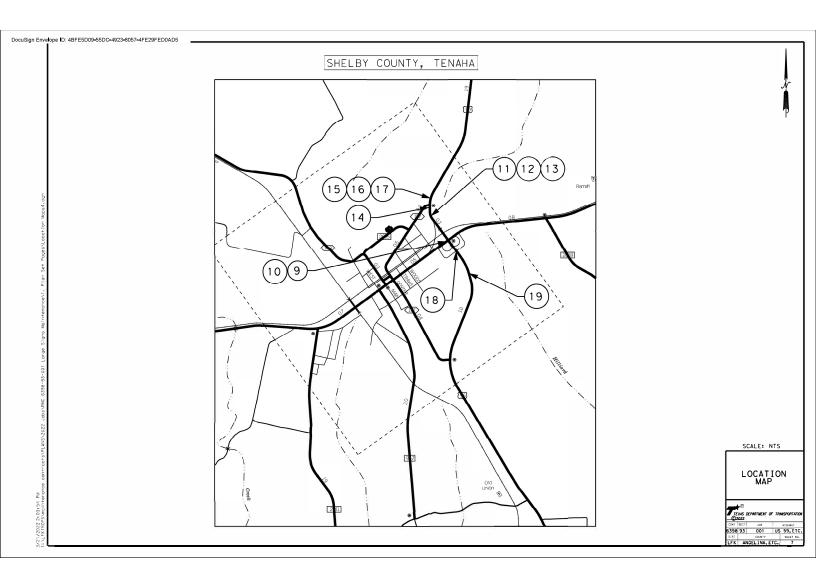


| DISTRICT | COUNTY | CCSJ | SHEET |
|----------|----------|-------------|-------|
| Lufkin | Angelina | 6398-93-001 | 3 |









| | | | | | | SIGN SU | | | | | | | |
|-------------|---------------------|-----------|--------------|--------------------------------------|----------------------------|-----------------------------|-----------------------------|--|--|---------------------------------------|----------------|---------------------------|-------------------------------------|
| | | | | ITEM 416 | ITEM 432 | | | A 636 | | | 647 | | M 654 |
| | | | | 6016 | 6007 | 6001 | 6002 | 6008 | 6009 | 6001 | 6003 | 6007 | * |
| SIGN NO. | LO | CATION | | DRILL SHAFT (SIGN MTS) (12 IN) | RIPRAP (CONC) (CL C) | ALUMINUM SIGNS (TY A) | ALUMINUM SIGNS (TY G) | REPLACE EXISTING ALUMINUM SIGNS (TY G) | REPLACE EXISTING ALUMINUM SIGNS (TY O) | INSTALLL LRSS (STRUCT STEEL) | REMOVE LRSA | REMOVE SIGN WALKWAY | REMOVE SIGN LIGHTING FIXTURES |
| | LOCATION | LAT | LONG | LF | CY | SF | SF | SF | SF | LB | EA | EA | EA |
| 1 | US 59 LIVINGSTON | 30.678029 | -94.950749 | | - 01 | J. | 195.00 | J. | J. | 661.90 | | | |
| 2 | US 59 LIVINGSTON | 30.693406 | -94.952689 | | | | 93.00 | | | 367.2 | | | |
| 3 | US 59 LIVINGSTON | 30.710691 | -94.953436 | | | | | 108.00 | | | | | |
| 4 | US 59 LIVINGSTON | 30.719510 | -94.950622 | | | 9.00 | 136.50 | | | 491.6 | | | |
| 5 | US 59/SL287 LUFKIN | 31.340829 | -94.691352 | | | | 141.75 | | | 547.6 | | | |
| 6 | US SL 287 LUFKIN | 31.337909 | -94.762177 | | | 9.00 | | | 160.00 | | | | |
| 7 | US 59 SL 287 LUFKIN | 31.372370 | -94.710200 | | | | 112.50 | | | 392.7 | | | |
| 8 | US59 NACOGDOCHES | 31.662102 | -94.676974 | | | | 125.00 | | | 538.6 | | | |
| 9 | US 59 TENEHA | 31.947851 | -94.237092 | | | | | | 156.00 | | | | |
| 10 | US 59 TENEHA | 31.947822 | -94.237071 | | | | | | 131.25 | | | | |
| 11 | | | | | | | | | 135.00 | | | | 2 |
| 12 | US 59 TENEHA | 31.949890 | -94.238463 | | | | | | 136.50 | | | 1 | 2 |
| 13 | | | | | | | | | 253.75 | | |] | 3 |
| 14 | US 59 TENEHA | 31.951712 | -94.239036 | 7 | 0.7 | | 55.00 | | | 309.1 | 1 | | |
| 15 | | | | | | | | | 71.25 | | | | 2 |
| 16 | US 59 TENEHA | 31.953971 | -94.238211 | | | | | | 156.00 | | |] 1 | 2 |
| 17 | | | | | | | | | 245.00 | | | | 3 |
| 18 | US 59 TENEHA | 31.947218 | -94.236599 | | | | | | 169.00 | | | 1 | 2 |
| 19 | US 96 TENEHA | 31.946127 | -94.235320 | 7 | 0.7 | | 31.50 | | | 276.40 | 1 | | |
| | | PRI | OJECT TOTALS | 14.0 | 1.3 | 18.00 | 890.25 | 108.00 | 1613,75 | 3585,10 | 2 | 3 | 16 |

* FOR CONTRACTOR'S INFORMATION ONLY

QUANTITY SUMMARIES

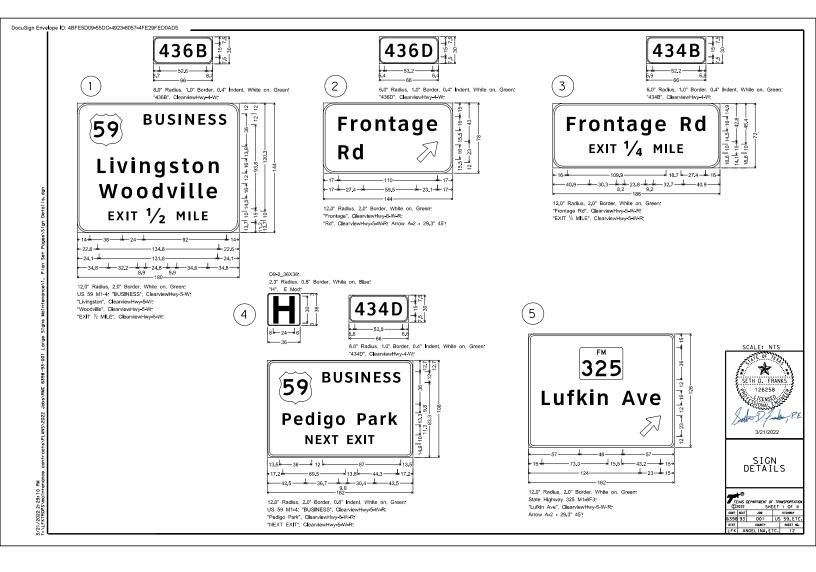
| | | | | | I. | EM 7052 | | 6185 |
|-------------|---------------------|-----------|--------------|--|--|--|--|---------------------|
| | | | | 6046 | 6047 | 6063 | 6064 | 6002 |
| SIGN NO. | LC | OCATION | | LANE CLOSURE (SETUP & REMOV) (TY5) | LANE CLOSURE (SETUP & REMOV) (TY6 | LANE CLOSURE (MAINTENANCE) (TY5) | LANE CLOSURE (MAINTEMANCE) (TY6) | TMA (STATIONARY: |
| | LOCATION | LAT | LONG | EA | EA | HR | HR | DAY |
| 1 | US 59 LIVINGSTON | 30.678029 | -94.950749 | | | | | 1 |
| 2 | US 59 LIVINGSTON | 30.693406 | -94.952689 | | | | | 1 |
| 3 | US 59 LIVINGSTON | 30.710691 | -94.953436 | | | | | 1 |
| 4 | US 59 LIVINGSTON | 30.719510 | -94, 950622 | | | | | 1 |
| 5 | US 59/SL287 LUFKIN | 31.340829 | -94,691352 | | | | | 1 |
| 6 | US SL 287 LUFKIN | 31.337909 | -94, 762177 | 1 | | 2 | | 1 |
| 7 | US 59 SL 287 LUFKIN | 31.372370 | -94.710200 | | | | | 1 |
| 8 | US59 NACOGDOCHES | 31.662102 | -94.676974 | | | | | 1 |
| 9 | US 59 TENEHA | 31.947851 | -94.237092 | 1 | | 2 | | 1 |
| 10 | US 59 TENEHA | 31.947822 | -94.237071 | 1 | | 2 | | 1 |
| 11 | | | | | | | | 1 |
| 12 | US 59 TENEHA | 31.949890 | -94. 238463 | | 1 | | 6 | 1 |
| 13 | | | | | | | | 1 |
| 14 | US 59 TENEHA | 31.951712 | -94.239036 | | | | | 1 |
| 15 | | | | | | | | 1 |
| 16 | US 59 TENEHA | 31.953971 | -94.238211 | | 1 1 | | 6 | 1 |
| 17 | | | | | 1 | | | 1 |
| 18 | US 59 TENEHA | 31.947218 | -94.236599 | 1 | | 2 | | 1 |
| 19 | US 96 TENEHA | 31.946127 | -94.235320 | | | | | 1 |
| | | PRI | DJECT TOTALS | 4 | 2 | 8 | 12 | 19 |

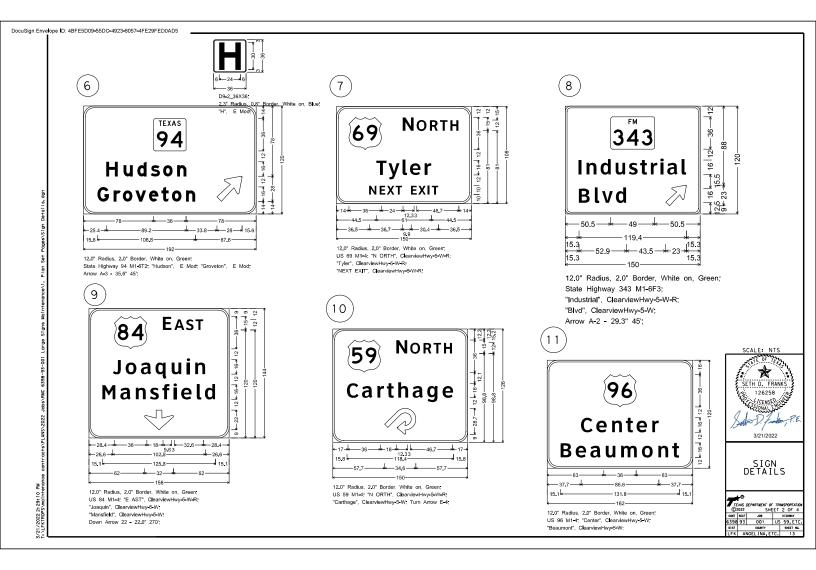
QUANTITY SUMMARIES

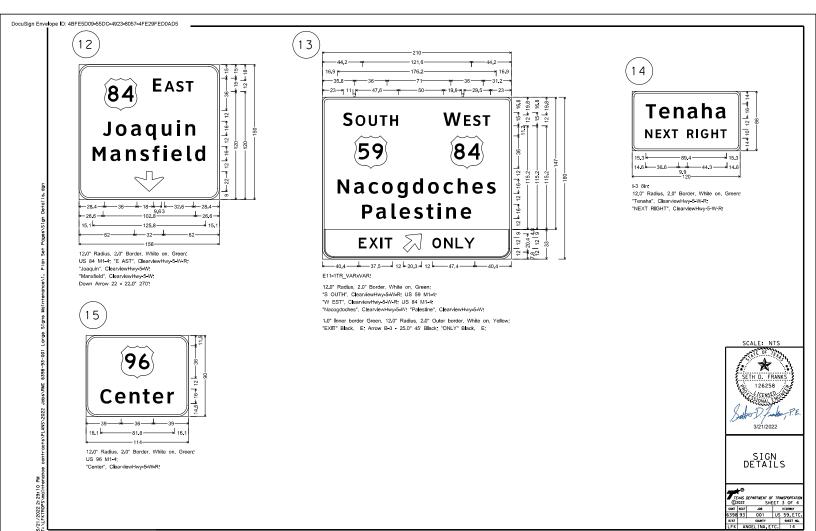


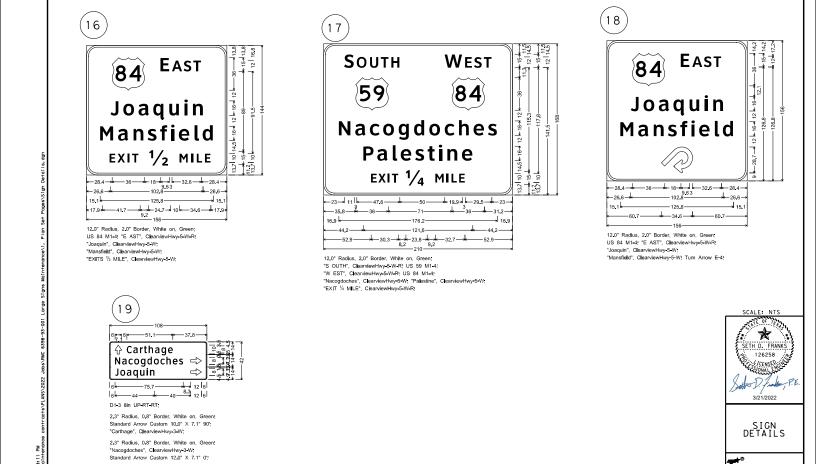
| D: 41 | | SIGN | | | PLAI & O | QUES, THER HMENTS | BACKO | ROUND E (SQ FT) | | "x" DIMEN | SION O | GALV | ANIZED | STRUCTU | JRAL ST | TEEL | DR | ILLED | SHAFT | |
|----------------------|-------|--------|---|--------------------|-------------|-------------------------|-----------------------------|----------------------|---------------------------------|-----------|--------|-------|--------|---------|-------------|-------------------------|----------|---------------|-------------------------------|--|
| PLAN SHEET NO. | T NO. | | SIGN TEXT | SIGN DIMENSIONS | DIRECT | | GROUND MOUNT (TYPE G) | OVERHEAD (TYPE O) | MOUNT | post pos | | SIZE | post | PEAR FE | post (3) | TOTAL WEIGHT LBS. | RE INF | RE | FEET INFORCED 30"0 36"0 | PAVEMENT EDGE POST (2) |
| | | | 4368 | 6 X 2.5 | | | 15.00 | | | | | | Ť | Ŭ | Ŭ | | 12 4 | 24.0 | 30 4 36 4 | |
| -11 | ١. | GREEN | US 59 BUSINESS LIVINGSTON | | | | | | | | | | | | | | | | | |
| <u> </u> | Ť | UNCEN | WOODVILLE | 15 X 12 | | | 180.00 | | 3 2 1 | 1.3 1.5 | 5 | W6×15 | 20.8 | 21.0 | | 661.9 | | | | ⊕ The "X" dimension i |
| | | | EXIT 1/2 MILE | | | | | | | | | | | | | | | | | difference at the pos ground and the edge o |
| \vdash | + | | 436D | 6 X 2.5 | | | 15.00 | | | | + | | | | | | \vdash | | _ | top of curb. Sign supports shall |
| 1 | | | FRONTAGE | | | | | | | | | | | | | | | | | shown on the plans, e. Engineer may shift th |
| 11 | 2 | GREEN | RD <right arrow=""></right> | 12 X 6.5 | | | 78.00 | | 3 2 1 | 1.9 3.1 | . | W6×9 | 15.9 | 17.5 | | 367.2 | | | | within design guidelin |
| | | | | 12 X 6.5 | | | 78.00 | | 3 2 1 | 1.9 3. | 1 | WEXS | 15.9 | 17.5 | | 367.2 | | | | necessary to secure a location or to avoid utilities. Unless oth |
| ⊢ | + | | | | | | | | | - | + | | - | | | | \vdash | _ | | the plans, the Control stake and the Engineer |
| | | | 434B FRONTAGE RD | 6 X 2.5 | | | 15.00 | | - | | | | | | | | | | | all sign support loca |
| -11 | 3 | GREEN | EXIT 1/4 MILE | | | | | | | | | | | | | | | | | The post lengths list approximations, The co- lengths will be furnis |
| | | | | 15.5 X 6 | | | 93.00 | | | | + | | - | | | | | _ | | Contractor after the : |
| | | | | | | | | | | | | | | | | | | | | are placed. Tower heights shall |
| | | | HOSPITAL | 3 X 3 | | 9.00 | | | | | | | | | | | | | | with the Engineer before tion. |
| ١,, | 4 | BLUE | | | | | | | | | | | | | | | | | | |
| | | 5.00 | | | | | | | | | | | | | | | | | | * This column is for Type A and not dire |
| | | | | | | | | | | | | | | | | | | | | Direct apply is sub the sign. |
| | | | 4340 | 6 X 2.5 | | | 15.00 | | | | | | | | | | | | | 1 |
| | | | 59 BUSINESS | | | | | | | | | | | | | | | | | |
| 11 | 4 | GREEN | PEDIGO PARK NEXT EXIT | 13.5 X 9 | | | 121.50 | | | 0.7 0.4 | اا | W6×12 | 17.2 | 17.1 | | 491.6 | | | | |
| | | | NEVI EVII | 13.3 x 3 | | | 121.30 | | 321 | 0.7 0.1 | | WOXIZ | 17.2 | .,,,, | | 491.6 | | | | 1 |
| | | | | | | | | | | | | | | | | | | | | 1 |
| 1,, | | GREEN | FM 325 LUFKIN AVE | | | | | | | | | | | | | | | | | |
| | Ť | Unicin | <right arrow=""></right> | 13.5 X 11 | | | 141.75 | | 3 2 1 | 1.0 1.9 | 9 | W6×12 | 19.0 | 19.9 | | 547.6 | | | | |
| | | | | | | | | | | | | | | | | | | | | SIGN TYP |
| | | | HOSPITAL | 3 X 3 | | 9.00 | | | | | | | | | | | | | | Wind Desi |
| | | | TEXAS 94 | | | | | | EXISTING OVERHEAD SUPPORT | | | | | | | | | | | Series |
| 12 | 6 | BLUE | HUDSON GROVE TON | 16 X 10 | | | | 160.00 | SUPPORT | | | | | | | | | | | SIGN TYPE 1 3 0 1 Alum |
| | | | <right arrow=""></right> | 10 X 10 | | | | 100100 | | | | | | | | | | | | SIGN TYPE 1 3 0 1 A TON |
| | | GREEN | | | | | | | | | | | _ | | | | | | _ | No. of Po |
| | | | US 69 NORTH | | | | | | 1 | | | | | | | | | | | See sheet SMD(|
| 12 | 7 | GREEN | TYLER | | | | | | | | | | | | | | | | | See sheet swo |
| | | | NEXT EXIT | 12.5 X 9 | | | 112.50 | | 3 2 1 | 0.8 2. | 5 | W6×9 | 17.3 | 19.0 | | 392.7 | | | | - |
| | | | | | | | | | | | + | | | | | | | | _ | 4 |
| | | | FM 343 | | | | | | | | | | | | | | | | | SUMMAF |
| 12 | - 8 | GREEN | INDUSTRIAL BLVD <right arrow=""></right> | 12.5 X 10 | | | 125.00 | | 3 2 1 | 1.3 1.1 | | W6×12 | 18.8 | 19.4 | | 538.6 | | | | |
| | | | (RIGHT ARROW) | 12.3 X 10 | | | 125.00 | | 3 2 1 | 1.3 1.1 | 9 | WOX12 | 10.0 | 19.4 | | 338.6 | | | | LARGE |
| | +- | | | | | | | | | \vdash | + | | - | | | | \vdash | - | _ | |
| | | | US 84 EAST | | | | | | EXISTING | | | | | | | | | | | ©Tx00T May 1987 |
| 12 | 9 | GREEN | JOAQUIN | | <u> </u> | | | | EXISTING OVERHEAD SUPPORT | 1 | | | | | | | | | | 0K.1-Tx00T ROTES |
| | | | MANSFIELD ARROW | 13 X 12 | | | | 156.00 | | | + | | _ | | | | | \rightarrow | | 04.1-Tx00T 8-95 9-08 |
| | 1 | 1 | * 11 | | | | | 1 | 1 | 1 1 | 1 1 | | 1 | 1 1 | | 1 | 1 1 | - 1 | 1 | 6398 93 001 |

| | | SIGN | | | PLAC & O ATTAC | DUES, THER | BACKG SUBSTRATI | ROUND E (SQ FT) | | -x- | DIMENSI | ON O | GALVA | NIZED | STRUCTU | IRAL ST | TEEL | | RILLED | SHAFT | - |
|----------------------|-------------|----------------------------------|--|--------------------|----------------------|----------------------|-----------------------------|----------------------|---------------------------------|-------|---------|------|---------|-------|---------|-----------|-------------------------|------------------------|--------|----------------------------------|---|
| PLAN SHEET NO. | SIGN NO. | SIGN BACK- GROUND COLOR | SIGN TEXT | SIGN DIMENSIONS | | ALUMINUM (TYPE A) | GROUND MOUNT (TYPE G) | OVERHEAD (TYPE O) | TYPE OF MOUNT | pos 1 | | | SIZE | post | post | post 3 | TOTAL WEIGHT LBS. | NON- RE INF 12"¢ | RE | R FEET EINFORCED 30"0 36"0 | PAVEMENT (DGE POST () POST () |
| 12 | 10 | GREEN | US 59 NORTH CARTHAGE TURN ARROW | 12.5 X 11 | | | | 131, 25 | EXISTING OVERHEAD SUPPORT | 3 | | | | | | | | | | | ☐ The "X" dimension is difference at the posiground and the edge or the edg |
| 12 | 11 | GREEN | US 95 CENTER BEALAONT | 13.5 X 10 | | | | 135, 00 | EXISTING OVERHEAD SUPPORT | 3 | | | | | | | | | | | top of curb. Sign supports shall shown on the plans, e Engineer may shift th within design guideli necessary to secure a location or to avoid utilities. Unless oth |
| 13 | 12 | GREEN | US 84 EAST JOAQUIN MANSFIELD DOWN ARROW | 13 X 11 | | | | 136, 50 | EXISTING OVERHEAD SUPPORT | 3 | | | | | | | | | | | the plans, the Contro stake and the Enginee all sign support loca The post lengths li approximations, The c lengths will be furni Contractor after the are placed. |
| 13 | 13 | GREEN | US 59 SOUTH US 84 MEST NACOGDOCHES PALESTINE | 17.5 X 15 | | | | 253.75 | EXISTING OVERHEAD SUPPORT | 3 | | | | | | | | | | | Tower heights shall with the Engineer bef tion. * This column is for Type A and not dir Direct apply is su the sign. |
| 13 | 14 | GREEN | EXIT <right abrow="">ONLY TENAMA NEXT_RIGHT</right> | 10 x 5.5 | | | 55.00 | | 3 2 1 | 2.0 | 3.0 | | \$4×7.7 | 15, 0 | 16.0 | | 309. 1 | 7.0 | | | |
| 13 | 15 | GREEN | US 95 CENTER | 9.5 X 7.5 | | | | 71.25 | EXISTING OVERHEAD SUPPORT | 3 | | | | | | | | | | | SIGN TY |
| 14 | 16 | GREEN | US 84 EAST JOAQUIN MANSFIELD EXIT 1/2 MILE | 13 X 12 | | | | 156.00 | EXISTING OVERHEAD SUPPORT | 3 | | | | | | | | | | | Serie O Alu |
| 14 | 17 | GREEN | US 59 SOUTH US 84 WEST NACOGROCHES PALESTINE | 17,5 X 14 | | | | 245, 00 | EXISTING OVERHEAD SUPPORT | 3 | | | | | | | | | | | No. of F |
| _14_ | 18 | GREEN | US B4 EAST JOAQUIN MANSFIELD CTURN ARROWS | 13 X 13 | | | | 169.00 | EXISTING OVERHEAD SUPPORT | 3 | | | | | | | | | | | SUMMAI LARGE |
| 14 | 19 | GREEN | <pre><up arrow=""> CARTHAGE NACOGDOCHES <right arrow=""> JOAQUIN <right arrow=""></right></right></up></pre> | 9 X 3.5 | | | 31.50 | | 3 2 1 | 1.8 | 3.0 | | \$4×7.7 | 12.8 | 14.0 | | 276.4 | 7.0 | | | © 1x001 May 1987 os.1x001 May 1987 os.1x001 11-93 1-0 os.1x001 8-95 9-0 os.1x001 5-01 oox.1x001 5-01 oox.1x001 5-01 |

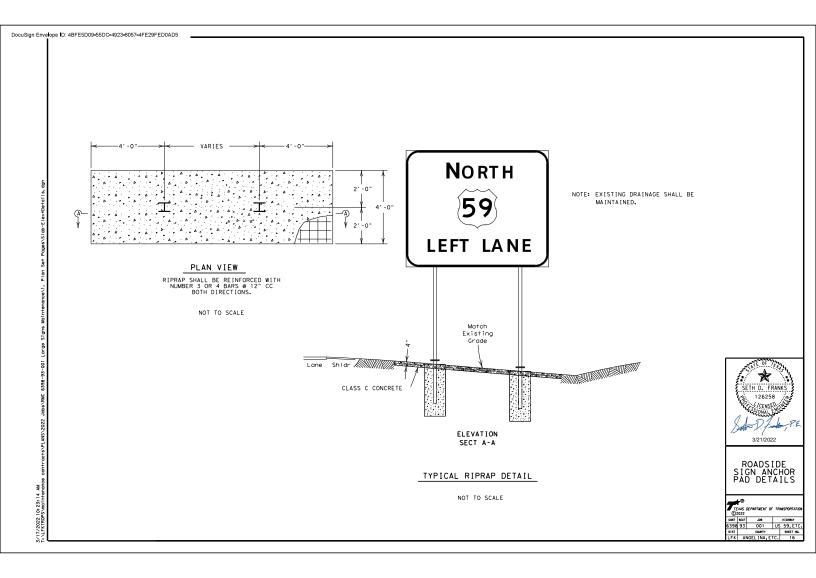








2.3" Radius, 0.8" Border, White on, Green, "Joaquin", ClearviewHwy-3-W, Standard Arrow Custom 12.0" X 7.1" 0',



- The Barricade and Construction Standard Sheets (BC sheets) are intended to show typical examples for placement of temporary traffic control devices, construction povement markings, and typical work zone signs. The information contained in these sheets meet or exceed the requirement shown in the "Texas Manual on Uniform Traffic Control Devices" (TMUTCD). DOSCALABLES.
 FINAL RESPONSE TO EXPONSE IN THE "TOTAL FOUNDERS FOUNDERS HITTER TO THE PERSONNEL OF THE PERSON
 - 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 oriteria 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 IxDDT "Roadway Design Manual" or engineering Judgment,
 - When projects abut, the Engineer(s) may amit 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 necessory warning signs as shown on these sheets, the TCP sheets or as directed by the Engineer. The BEGIN ROAD MORK NEXT X MILES sign shall be revised to show appropriate work zone distance.
 - The Engineer may require duplicate worning 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.
 - Where highway construction or maintenance work is being undertaken, other than mobile operations as defined by the Texas Monual on Uniform Traffic Control Devices, CSJ limit signs are required. CSJ limit signs are shown on BC(2). The OBEY WARNING SIGNS STATE LAW sign, STAY ALERT TALK OR TEXT LATER and the WORK ZONE TRAFFIC FINES DOUBLE sign with plaque shall be erected in advance of the CSJ limits. The BEGIN ROAD WORK NEXT X MILES, CONTRACTOR and END ROAD WORK SIGNS shall be erected at or near the CSJ limits. For mobile operations, CSJ limit signs are not required.
 - Traffic control devices should be in place only while work is actually in progress or a definite need exists.
 - 12. The Engineer has the final decision on the location of all traffic control devices.
 - 13. Inactive equipment and work vehicles, including workers' private vehicles must be parked away from travel lanes. They should be as close to the right-of-way line as possible, or located behind a barrier or guardrail, or as approved by the Engineer.

WORKER SAFETY NOTES:

- Workers on foot who are exposed to traffic or to construction equipment within the right-of-way shall wear high-visibility safety apparel meetin 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.
- Except in emergency situations, flagger stations shall be illuminated when flagging is used at night.

COMPLIANT WORKZONE TRAFFIC CONTROL DEVICES

TRAFFIC ENGINEERING STANDARD SHEETS

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

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)

SHEET 1 OF 12

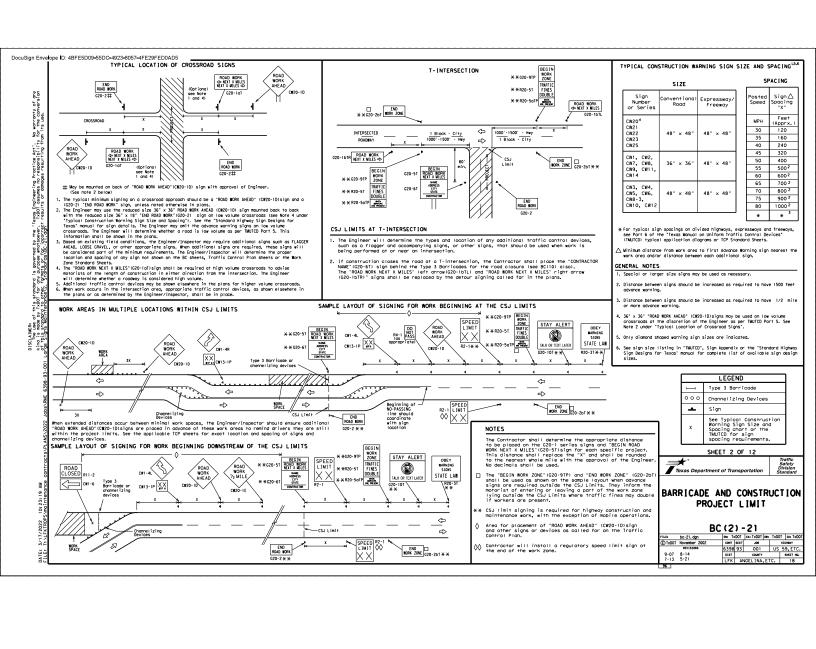
BARRICADE AND CONSTRUCTION

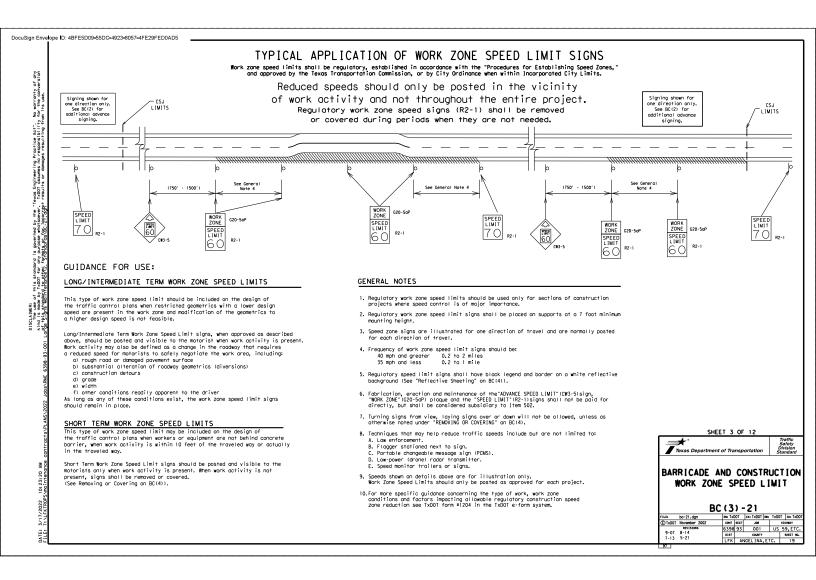
GENERAL NOTES AND REQUIREMENTS

BC(1)-21

| 200 | TXDOT | CRX TXDOT | CR

3/17/2022 TENI FK TROP

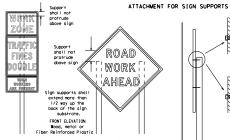




OSCULLAND OF this stondord is governed by the "Texas Explinering Proctice Act". No kind is made by TADI for any burges persistence. TADI assumes no responsibility for this standard to other formats or for Incorrect results or damages resulting from I go Signs Maintenance?. Standards MB-21, ago

* 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.

* * Then plaques are placed on dual-leg supports, they should be attached to the upright nearest the travel lone. Supplemental plaques (advisory or distance) should not cover the surface of the parent sign.



Splicing embodded perforated square metal fluing in order to extend post height will only be allowed when the splice is mode using four borts, we the sign substraint, and the splicing is the splicing of the splicing order to the sign substraint, not near the bose of the support, Splice interfix should be of least 5 times naminal post size, centered on the splice and of of treast the some goage meterfals.

Attachment to wooden supports will be by boits and nuts or screws. Use TXDDT's or monufacturer's recommended procedures for attaching sign substrats to other types of sign supports

Nails shall NOT be allowed. 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.

STOP/SLOW PADDLES

- 1. STOP/SLOW populates are the primary method to control traffic by floogers. The STOP/SLOW populate size about to be 24" x 24" at 24"







| - < | | | |
|-----------------------------|-----------------|------------|--|
| 28 | SHEETING RE | QUIREMENTS | (WHEN USED AT NIGHT) |
| 3/17/2022 1 T:\LFKTROPS\ | USAGE | COLOR | SIGN FACE MATERIAL |
| 25 | BACKGROUND | RED | TYPE B OR C SHEETING |
| 5£ | BACKGROUND | ORANGE | TYPE B _{FL} OR C _{FL} SHEETING |
| <u> </u> | LEGEND & BORDER | WHITE | TYPE B OR C SHEETING |
| === | LECEND & BODDED | DI ACV | ACRYLLC NON-DEELECTIVE ETLA |

CONTRACTOR REQUIREMENTS FOR MAINTAINING PERMANENT SIGNS WITHIN THE PROJECT LIMITS

NILHIM THE PROJECT LIMITS

Percented sign or used to give notice of traffic loss or regulations, coil attention to conditions that are potentially hazaroaus to traffic operations, show route designations, destraintons, directions, distances, services, points of interest, and other geographical, representancy, distances, services, points of interest, and other geographical, representancy, specific service (L000), or cultural information. Drivers proceeding through a service need the same, if not better crute guidence as normally installed on a reader without construction.

Then permonent regulatory or worning signs conflict with work zone conditions, remove or cover the permonent signs until the permonent sign message matches the roadway condition. For details for covering large guide signs see the TS-OB stradow.

SIDE ELEVATION

15-CD stondard.

When existing permanent signs are moved and relocated due to construction purposes, they shall be visible to motorists of all times. It feating signs are to be relocated on their original supports, they shall install led on crashworthy bases as shown on the SMD stondard sheets. The signature experient equal relights shown on the SMD stondard sheets. The signature experience abouting periphis shown on the SMD stondard sheets. The signature experience of the signature of the stondard sheet is shown to be shall be shall be shown to show the signature of the signature of the shall be sh

relocating existing signs.

If permonent signs are to be removed and relocated using temporary supports, the Contractor shall use crashworthy supports as shown on the 80 standard sheets, the Standard sheets are the CRED list. The signs shall neet the required mounting helights shown on the 80, or the 800 standard sheets our ling construction. This work should be to life or under the opport into by titlen 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.

- NERAL NOTES FOR BORK ZONE SIGNS

 Contractor and Illinatori I and antinitian is ligis in a straight and plumb condition and/or as directed by the Engineer.

 Sorticost and Illinatori I and antinitian is ligis in a straight and plumb condition and/or as directed by the Engineer.

 All signs should be installed in occordance with the plans or as directed by the Engineer. Signs should be used to regulate, worm, and agide the froveling public softly through the work zone. The plans are in the "Standard stigning sign lessions for Seas" in the Contractor may furnish at inter the sign design shown in the plans and in the Standard stigning sign lessions for Seas" in the Matical but may have been omitted from the plans. All in the plans should be documented by written any seems the terent the Engineer of 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 1800 of large work having both the Inspector's 1800 of large value on changes. In the Inspector's 1800 of large value on thorques.

 The Contractor shall furnish sign supports I state in the Comption's Bort Zone Froffic Control Device List' (SETION or small roads) is standard sheets. The Contractor shall install the sign support in the manufacturer's recommendations. If there is a question regarding installation or well by the Contractor shall furnish the Engineer a copy of the manufacturer's recommendations. If there is a question regarding installation may be shall not be substituted and office the standard sheets of the standard sheets of the Engineer conversion with damaged or crocked substitutes and/or adminished the standard sheets of shall not substitute. The manufacturer's recommendations of the reference of the standard sheets of the standard sheets

DURATION OF WORK (as defined by the "Texas Manual on Uniform Traffic Control Devices" Part 6) In types of sing supports, sign countring by the "tenes Morusi on Uniform Traffic Control Devices" Part 5!

The types of sign supports, sign countring beignt, the size of signs, and the type of sign substrates can vary based on the type of work being performed. The fingineer is responsible for selecting the appropriate size sign for the type of work being performed. The regards to creative the size of the type of work being performed. The regards to creative thinks and out-off one fiver regards to creative thinks and out-off one fiver regards to creative thinks and out-off one fiver regards to creative themselves the size of the size

- e. Modile work that moves continuously or intermittently stropping for up to approximately 15 minutes. 1

 1. The borton of Long-termicalizations give shall be at least 7 feet, but not more than 9 feet, doore the powed surface, except 1. The borton of Stort-termiforth production and the strong strong

SIZE OF SIGNS 1. The Contractor shall furnish the sign sizes shown on 8C (2) unless otherwise shown in the plans or as directed by the Engineer. SIGN SUBSTRATES

- CM 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 CRIZTOD lists each substrate that can be used on the different types and models of sign supports. "Near" type enterioris are Not on oppreed sign substrate, regardless of the tignites of the vertex of the vertex. All secoles individual sign poets fabricated from 2 or more pieces shall have one or more piyosod cleat, 1/2" thick by 6" viac, fastered to the book of the sign and extending fully across the sign. The clear that is be placed on both sides of the spitial end support of the sign using wood centers. The Engineer may approve other methods of spiting the sign face.
- centers. The ungineer may approve other methods or spiriting the sign took.

 RELICITYS SERVETIME

 1. All signs small be sometimed to the string the solor and retro-reflectivity requirements of DMS-8300 for rigid signs or DMS-8310 for roll-up signs. The web oddress for DMS specifications is shown on BCIII.

 1. All signs are the string to the string the requirements of DMS-8300 for rigid signs or DMS-8300 for rigid signs with orange bookgrounds.

 1. Orange sheeting, meeting the requirements of DMS-8300 type B_M or Type C_{ML}, small be used for rigid signs with orange bookgrounds.
- Side States and numbers shall be clear, and open rounded type uppercase alphabet letters as approved by the Federal Highway Administration (FMA) and as published in the "Standard Highway Sign Design for Texas" amount. Signs, letters and numbers shall be of first class eprimenship in accordance with Department Standards and Specifications.

- Administration (thank on we worked)

 Administration (thank on we worked)

 First close someonish in conformace with Department Standards and Specifications.

 REMOVING OR COVERING.

 2. It was sign sensored to confusing or do not apply, the signs shall be removed or completely covered.

 2. It was sign sensored to confusing or do not apply, the signs shall be removed or completely covered.

 2. It was not standard to confusion. The signs install set in section of divided highways or near any interesticions where the signs expressed to the cookey, these signs should be removed or completely covered when or required.

 3. Signs installed on wooden skids shall not be turned of 90 degree angles to the roadway. These signs should be removed or completely covered when or required.

 4. Signs installed on wooden skids shall not be furned of 90 degree angles to the roadway. These signs should be removed or completely covered when or required.

 5. Signs installed on wooden skids shall not be standard to say in face.

 6. Buch tape or other addressive material shall Not be defined to a sign face.

 7. Signs and endower studes shall be removed and hotes bookfilled upon completion of work.

 8. Signs and endower studes shall be removed and hotes bookfilled upon completion of work.

 8. SHEET 4 OF 12

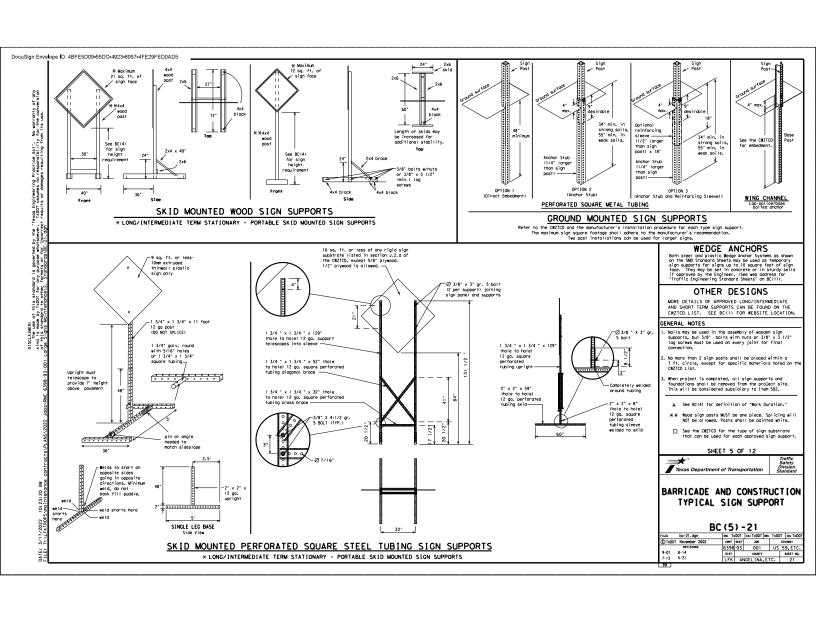
- 6. Duct tope or other observe material shall NOT be offised to a sign face.
 7. Signs and orandor status shall be removed and hallos boothfiled upon completion of wo SLOX SUPPORT SELECTION.
 8. There is given a proper proper state of the state of weights to keep from furning over, the use of the state of

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.

BARRICADE AND CONSTRUCTION TEMPORARY SIGN NOTES

| | | вс | (4 | | | | | |
|-------|---------------|----|-------|------|-----------|-------|------|-----------|
| FILE | bc-21.dgn | | on To | COOT | ck: TxDOT | cen | Tx00 | CKs TxDC |
| TXXXI | November 2002 | | CONT | SECT | JOB | | | HICHWAY |
| | REVISIONS | | 6398 | 93 | 001 | | US | 59, ETC. |
| 9-07 | 8-14 | | DIST | | COUNTY | | | SHEET NO. |
| 7-13 | 5-21 | | LFK | 1A | IGEL I NA | , E 1 | rc. | 20 |



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

PORTABLE CHANGEABLE MESSAGE SIGNS

- run raste LHANGEABLE MESSAGE SIGNS

 1. The Engineer/Inspector shall approve oil messages used on portable changeable messages signs (True) and the series (about four to see than 8 series (about four to see than 8 series (about four to see that caroniers per series), not including simple words such as "10," "FOR," "AI," Three-phose response or not oil louded, Each phose of the message should consist of a single phose, or "to phose that oil terrorist. Three-phose response or not oil louded, Each phose of the message should convey a single thought, and must be understood by itself.

- FIGN, "A.F." etc.

 1. Wessoges should convex essister of a single shouse, or two phoses that

 wessoges should convex of seasons are not allowed. Each phose of the

 messoge should convex o single shought, and must be understood by

 itself.

 4. Use the def SETIT to refer to an exit remp on a freeway; i.e.,

 6. Wester the def SETIT to refer to an exit remp on a freeway; i.e.,

 6. Always use the router of interestate desliproption (I.R., US, SH, FM)

 along with the number when referring to a roadway.

 6. Always use, the bottow of or satisfactory Bottomery RDS, SH, FM)

 along with the number when referring to a roadway.

 6. Benn in use, the bottow of or satisfactory Bottomery RDS, SH, FM)

 along with the number when referring to a roadway.

 6. Benn in use, the bottomer of a satisfactory Bottomery RDS, SH, FM)

 and insure that the satisfactory and the satisfactory

| mord or Phrase | ABBREVIATION | WORD OR PHRASE | ABBREVIATIO |
|-----------------------|--------------|--------------------------|-------------|
| Access Road | ACCS RD | Major | MAJ |
| Alternate | ALT | Miles | M) |
| Avenue | AVE | Miles Per Hour | MPH |
| Best Route | BEST RTE | Minor | MNR |
| Boulevard | BLVD | Monday | MON |
| Bridge | BRDC | Normal | NORM |
| Cannot | CANT | North | N |
| Center | CTR | Nor thbound | (route) N |
| Construction About | CONST AHD | Parking Road | PK ING |
| CROSSING | XING | Right Lane | |
| Detour Route | DETOUR RTE | | RT LN |
| Do Not | DONT | Saturday | SERV RD |
| East | E | Service Road Shoulder | SHLDR |
| Eastbound | (route) E | | SLIP |
| Emergency | FMER | Slippery | S |
| Emergency Vehicle | | Southbound | (route) S |
| Entrance, Enter | ENT | Speed | SPD SPD |
| Express Lane | EXP LN | Street | ST |
| Expressway | EXPRY | Sunday | SUN |
| XXXX Feet | XXXX FT | | PHONE |
| Fog Ahead | FOG AHD | Telephone Temporary | TEMP |
| Freeway | FRWY, FWY | Thursday | THURS |
| Freeway Blocked | FWY BLKD | To Downtown | TO DWNTN |
| Friday | FRI | Troffic | TRAF |
| Hazardous Driving | | | |
| Hazardous Material | HAZMAT | Travelers | TRVLRS |
| High-Occupancy | HOV | Tuesday | TUES |
| Vehicle | | Time Minutes | TIME MIN |
| Highway | HWY | Upper Level | UPR LEVEL |
| Hour (s) | HR. HRS | Vehicles (s) | VEH, VEHS |
| Information | INFO | Warning | WARN |
| It Is | ITS | Wednesday | WED |
| Junction | JCT | Weight Limit | WT LIMIT |
| Left | LET | West | W |
| Left Lane | LET IN | Westbound | (route) W |
| Lane Closed | LN CLOSED | Wet Povement | WET PVMT |
| Lower Level | LWR LEVEL | #ill Not | WONT |
| Maintenance | MAINT | | |

RECOMMENDED PHASES AND FORMATS FOR PCMS MESSAGES DURING ROADWORK ACTIVITIES

(The Engineer may approve other messages not specifically covered here.

Phase 1: Condition Lists

Ro

| oad/Lane/Rar | mp Closure List | Other Cond | ition List |
|-----------------------------|------------------------------|--------------------------------|-------------------------------|
| FREEWAY CLOSED X MILE | FRONTAGE ROAD CLOSED | ROADWORK XXX FT | ROAD REPAIRS XXXX FT |
| ROAD CLOSED AT SH XXX | SHOULDER CLOSED XXX FT | FLAGGER XXXX FT | LANE NARROWS XXXX FT |
| ROAD CLSD AT FM XXXX | RIGHT LN CLOSED XXX FT | RIGHT LN NARROWS XXXX FT | TWO-WAY TRAFFIC XX MILE |
| RIGHT X LANES CLOSED | RIGHT X LANES OPEN | MERGING TRAFFIC XXXX FT | CONST TRAFFIC XXX FT |
| CENTER LANE CLOSED | DAYTIME LANE CLOSURES | LOOSE GRAVEL XXXX FT | UNEVEN LANES XXXX FT |
| NIGHT | I-XX SOUTH | DETOUR | ROUGH |

CLOSURES CLOSED VARIOUS LANES CLOSED EXIT XXX CLOSED X MILE

XXXXXXX

BL VD CLOSED

RIGHT LN TO BE CLOSED EXIT CLOSED X LANES CLOSED TUE - FRI

X MILE XXXX FT ROADWORK PAST SH XXXX

ROADWORK NEXT FRI-SUN TRAFFIC SIGNAL XXXX FT

US XXX EXIT X MILES

STAY f X LANES SHIFT in Phase 1 must be used with STAY IN LANE in Phase 2.

Phase 2: Possible Component Lists Location List

Action to Take/Effect on Travel FORM X LINES RIGHT NEXT X EXITS XXXXX RD EXIT USE EXIT I-XX NORTH USE EXIT XXX WATCH FOR TRUCKS TRUCKS WATCH FOR TRUCKS EXPECT DELAYS PREPARE EXPECT DELAYS TO STOP END SHOULDER USE USE OTHER ROUTES WORKERS

AT FM XXXX BEFORE RAILROAD CROSSING NEXT MILES PAST US XXX EXIT xxxxxxx US XXX TO FM XXXX

Warning List SPEED LIMIT XX MPH MAXIMUM SPEED XX MPH MINIMUM SPEED XX MPH USE CAUTION

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

NEXT TUE AUG XX TONIGHT XX PM-XX AM

APPLICATION GUIDELINES

- APPLICATION QUIDELINES

 1. The 1st chack for the bused on a PQM.

 2. The 1st chack for both should be selected from the "Read/Lowerfamon Closure List" and the "Other Condition List".

 3. A 2nd phase can be selected from the "Action to Texes/Effect on Trevel, Location, Central Warning, or Advance Notice

 4. A Location Prose is necessary only if a distance or location is not included in the first phase selected.

 5. If the PQM are used in sequence, they must be secreted by and should be understandable by these level.

 6. For downce notice, when the current other is within seven days of the cothol work days, collected days should be replaced with the property of the property of the country of the country

- WORDING ALTERNATION OF THE PROPERTY OF THE PRO

PCMS SIGNS WITHIN THE R.O.W. SHALL BE BEHIND GUARDRAIL CONCRETE BARRIER OR SHALL HAVE A MINIMUM OF FOUR (4) PLASTIC DRIMAN PLACED PERPENDICULAR TO TRAFFIC ON THE UPSTREAM SIDE OF THE PECMS, WHEN EXPOSED TO ONE DIRECTION OF TRAFFIC. WHEN EXPOSED TO TO WEND THE PECAMON 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

 1. When Full Morrix 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.

 2. When symbol signs, such as the "Flooger Symbol" (D220-71 are represented graphically on the Full Motrix PCMS sign and, with the approval of the Engineer, it shall individual the legibility/visibility requirement listed above.

 3. When symbol signs are represented graphically on the Full Motrix PCMS, they shall only supplement the use of the static sign represented, and shall not substitute for, or response that sign.

 4. A full motrix PCMS may be used to simulate a flashing arrow board provided it meets the visibility, flash rate and dimming requirements on BC(11), for the same size are visibility.

BARRICADE AND CONSTRUCTION PORTABLE CHANGEABLE MESSAGE SIGN (PCMS)

SHEET 6 OF 12

BC (6) -21 | 066 | TADOT | 056 | 056 | 056 | 056 | 056 | 056 | 056 | 056 | 056 | 056 | 056 | 056 | 056 | 056 | 056 | 056 | 056 | 056 | 056 | 056 | 056 | 056 | 056 | 056 | 056 | 056 | 056 | 056 | 056 | 056 | 056 | 056 | 056 | 056 | 056 | 056 | 056 | 056 | 056 | 056 | 056 | 056 | 056 | 056 | 056 | 056 | 056 | 056 | 056 | 056 | 056 | 056 | 056 | 056 | 056 | 056 | 056 | 056 | 056 | 056 | 056 | 056 | 056 | 056 | 056 | 056 | 056 | 056 | 056 | 056 | 056 | 056 | 056 | 056 | 056 | 056 | 056 | 056 | 056 | 056 | 056 | 056 | 056 | 056 | 056 | 056 | 056 | 056 | 056 | 056 | 056 | 056 | 056 | 056 | 056 | 056 | 056 | 056 | 056 | 056 | 056 | 056 | 056 | 056 | 056 | 056 | 056 | 056 | 056 | 056 | 056 | 056 | 056 | 056 | 056 | 056 | 056 | 056 | 056 | 056 | 056 | 056 | 056 | 056 | 056 | 056 | 056 | 056 | 056 | 056 | 056 | 056 | 056 | 056 | 056 | 056 | 056 | 056 | 056 | 056 | 056 | 056 | 056 | 056 | 056 | 056 | 056 | 056 | 056 | 056 | 056 | 056 | 056 | 056 | 056 | 056 | 056 | 056 | 056 | 056 | 056 | 056 | 056 | 056 | 056 | 056 | 056 | 056 | 056 | 056 | 056 | 056 | 056 | 056 | 056 | 056 | 056 | 056 | 056 | 056 | 056 | 056 | 056 | 056 | 056 | 056 | 056 | 056 | 056 | 056 | 056 | 056 | 056 | 056 | 056 | 056 | 056 | 056 | 056 | 056 | 056 | 056 | 056 | 056 | 056 | 056 | 056 | 056 | 056 | 056 | 056 | 056 | 056 | 056 | 056 | 056 | 056 | 056 | 056 | 056 | 056 | 056 | 056 | 056 | 056 | 056 | 056 | 056 | 056 | 056 | 056 | 056 | 056 | 056 | 056 | 056 | 056 | 056 | 056 | 056 | 056 | 056 | 056 | 056 | 056 | 056 | 056 | 056 | 056 | 056 | 056 | 056 | 056 | 056 | 056 | 056 | 056 | 056 | 056 | 056 | 056 | 056 | 056 | 056 | 056 | 056 | 056 | 056 | 056 | 056 | 056 | 056 | 056 | 056 | 056 | 056 | 056 | 056 | 056 | 056 | 056 | 056 | 056 | 056 | 056 | 056 | 056 | 056 | 056 | 056 | 056 | 056 | 056 | 056 | 056 | 056 | 056 | 056 | 056 | 056 | 056 | 056 | 056 | 056 | 056 | 056 | 056 | 056 | 056 | 056 | 056 | 056 | 056 | 056 | 056 | 056 | 056 | 056 | 056 | 056 | 056 | 056 | ©Tx00T November 2002 REVISIONS 9-07 8-14 7-13 5-21

DISCULINES

(The Tipe use of this standard is governed by the "fe'

(The dis made by TXROT for any purpose windssever,

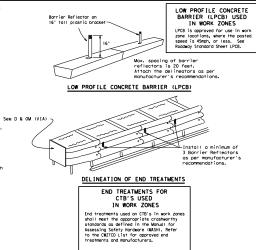
of this standard to other formuse or for incorrect

of chins Mointenance\(\text{L}\). Standards\(\text{Mointenance}\(\text{L}\). Standards\(\text{Mointenance}\(\text{L}\).

3/17/2022 T+ \1 FK TROP

3. Where traffic is on one side of the CTB, two (2) Borrier Reflectors Should be mounted in approximately the midsection of econ section of CTB.

CTB. This will allow for ortochrent of a borrier groups without damaging the reflector. The Borrier Reflector mounted on the side of the CTB should be located directly believe the reflector mounted on too of the CTB should be located directly believe the reflector mounted on too of the CTB should be located directly believe the reflector should be mounted on each section of CTB. The reflector unit on too should have been yellow reflective foces, as shown in Should be should b



BARRIER REFLECTORS FOR CONCRETE TRAFFIC BARRIER AND ATTENUATORS



Type C Warning Light or approved substitute mounted on a drum adjacent to the travel way.



WARNING LIGHTS

- Name (In the International Control of Control o

Barrier Reflector on 16" tall plastic bracket

WARNING LIGHTS MOUNTED ON PLASTIC DRUMS

- I. Type A floating sworing Light sore intended to some divers that they are approaching or are in a potentially hazardous area.

 2. Type A rondom floating worning lights are not intended for delineation and shall not be used in a series.

 3. A series of sequential floating worning lights placed and consetting devices to form a merging toper may be used for delineation. If used, a series of sequential floating worning lights placed and consetting devices to form a merging toper may be used for delineation or developed to the series of the seri

WARNING REFLECTORS MOUNTED ON PLASTIC DRUMS AS A SUBSTITUTE FOR TYPE C (STEADY BURN) WARNING LIGHTS

- MARNING REPLECIONS MOUNTED ON PLASTIC DRIMMS AS A SUBSTITUTE FOR TYPE C (STEADY BURN) MARNING LIGHT

 1. A woning reflector or agrowed absolution epo be mounted on a joistic drum as a substitute for a lyee, a steady burn woning light at the
 discretion of the Contractor unless otherwise noted in the plants.
 The woning reflector shall be yellow in color and shall be mountedrured using a sign substrate approved for use with plastic drums listed

 5. The woning reflector shall have a similar retraceflective surface area (one-side) of 30 square inches.

 6. Round reflectors shall be found in cliently in the plants.

 7. Square substrates must have a similar retraceflective surface area (one-side) of 30 square inches.

 8. Square substrates must have a similar of 30 square inches of reflectorized sheeting. They do not have to be reflectorized where it

 8. The side of the woning reflector facing approaching traffic ball have sheeting meeting the color and retraceflectivity requirements for

 9. The total contractor whosely forfice, both sides of the woning reflector shall be reflectorized.

 9. The mountain specing for woning reflectors should be identical to the channelizing device specing requirements.

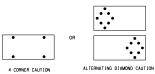
Arrow Boards may be located behind channelizing devices in place for a shoulder taper or merging taper, otherwise they shall be delineated with four (4) channelizing devices placed perpendicular to traffic on the upstream side of traffic

- The Floshing Arrow Board should be used for all lane closures an multi-lane roadways, or slow moving exintenance or construction activities on the trovel lanes.

 Floshing Arrow Boards should not be used on two-lone, two-way roadways, defours, alwersions or work on shoulders unless the "CAUTOM" display (see detail below is used.

 The Engineer Inspector should choose all appropriate signs, borricades and/or other traffic control devices that should be used in conjunction with the Floshing Arrow Board should be able to display the following symbols:

 The Floshing Arrow Board should be able to display the following symbols:











- 5. The "CAUTION" display consists of four corner loops floating simultaneously, or the Attending Diamond Courlom adde as shown.

 The stroight line courlom display is NOT ALLONED.

 The floating him courlom display is NOT ALLONED.

 The floating Arras Board shall be caposite of minimum 50 percent dismining from creed (now voltage, or the floating corner of the county of the county

| REQUIREMENTS | | | | | | | | |
|--------------|-----------------|----------------------------------|-----------------------------------|--|--|--|--|--|
| TYPE | MINIMUM SIZE | MINIMUM NUMBER OF PANEL LAMPS | MINIMUM VISIBILITY DISTANCE | | | | | |
| В | 30 × 60 | 13 | 3/4 mile | | | | | |
| С | 48 x 96 | 15 | 1 mile | | | | | |

| ATTENTION |
|--|
| Flashing Arrow Boards shall be equipped with automatic dimming devices |

FLASHING ARROW BOARDS

TRUCK-MOUNTED ATTENUATORS

WARNING LIGHTS & ATTENUATOR BC(7)-21

| NN | TXDOT | CK | TXDOT | CM | TXDOT | CK FILEs bc-21.dgn
© Tx00T November 2002
REVISIONS 9-07 8-14 7-13 5-21

SHEET 7 OF 12

BARRICADE AND CONSTRUCTION

ARROW PANEL, REFLECTORS,

3/17/2022 T: \LFKTROP

GENERAL NOTES

- GENERAL NOTES

 1. For long term storilonary work zones on freeways, drums sholl be used as the primary dramestizing device.

 1. For long term storilonary work zones on freeways, drums should be used as the primary channel izing device but may be replaced in tangent sections by vertical ponels, or 42 the place cones. In tragent sections, one-place zones may be used with the approval of the Engineer but only cones in proper position and location.

 3. For short term stationary work zones on freeways, drums are the preferred others izing nevice but may be replaced in tower, transitions and tangent downers izing nevice but may be replaced in coloners, transitions and tangent downers izing nevice but may be replaced in tower, transitions and tangent cones or one-place cones or one-place

GENERAL DESIGN REQUIREMENTS

- ment device must be an opproved device.

 GENERAL DESIGN REQUIREMIS

 Pre-qualified plastic arms shall neer the following requirements:

 1. Plastic draws shall be a two-place design, with body of the drum shall be the body on the drum shall be the top portion and the "bode" and the "body" and the shall be the bottom. The third provides and the pr

RETROREFLECTIVE SHEETING

- The stripes used on drums shall be constructed of sheeting meeting the color and retroceflectivity requirements of Departmental Materials Specification DMS-3800, 'Sign Face Materials.' Type A or Type B reflective sheeting shall be supplied unless otherwise specified in the plane.
- ... use proma.

 The sheeting sholl be suitable for use on and shall observe to the drun surface such that, upon vehicular import, the sheeting shall resolute import, the sheeting shall resolute othered in place on each bit in odiseniar thin, crocking, or loss of retrorefiscivity other than that loss due to obrasion of the sheeting surface.

- BALLAST

 1. Unbollossed boses shall be large enough to hold up to 50 lbs. of sand. This bose, when filled with the bollost enterfal, should weigh between this bose, when filled with the bollost enterfal, should weigh between to three sondbags separate from the bose, sond in a sand-filled plastic bose, or other bollosting devices as approved by the fingineer. Stocking of sondbags will be allowed, however height of sandbags above powerned surface may not exceed 12 inches.

 2. Boses with built-in bollost aboil weight between 40 lbs. and 50 lbs. or sold router bollost in the sold mittegral arran rouber base or a solid router bollost.

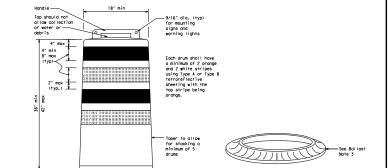
 3. Recycled track fire sidewalls may be used for bollost on druns approved for this type of bollost on the IXVIZO list.

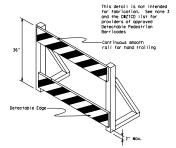
 4. The bollost shall not be twocy objects, water, or day noterial that oralls sorticts by a vertice.

 5. When used in regions susceptible to freezing, druns shall have drainage holes in the bottoms to that water will not collect and freeze becoming a hazard when struck by a vertice.

 6. Ballast shall not be piaced on top of druns.

 7. Adhesives may be used to secure base of druns to powerner.





DETECTABLE PEDESTRIAN BARRICADES

- DETECTABLE PEDESTRIAN BARRICADES

 1. Man existing pedestrion foolities are disructed, closed, or relocated in of Tic zote, interest proficilities should be relocated to the state of the s





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 $B_{\rm T_L}$ or Type $C_{\rm T_L}$ 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 BMS-8300 Type A or Type Diagonal stripes on Vertical Panels shall slope down toward the intended traveled lane.
- Other sign messages (text or symbolic) may be used as approved by the Engineer. Sign dimensions shall not exceed 18 inches in width or 24 inches in height, except for the R9 series signs discussed in note 8 below.
- Signs shall be installed using a 1/2 inch bolt (nominal) and nut, two washers, and one locking washer for each connection.
- Mounting bolts and nuts shall be fully engaged and adequately torqued. Bolts should not extend more than 1/2 inch beyond nuts.
- 7. Chevrons may be ploced on drums on the outside of curves, on merging topers or on shifting topers. When used in these locations, they may be ploced on every drum or speed not more than on every third drum. A minimum of three (3) should be used of 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.

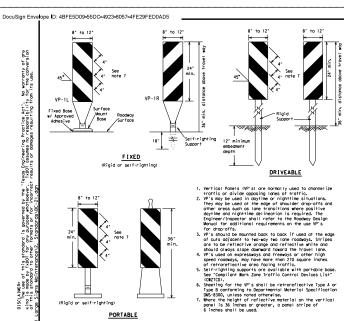
SHEET 8 OF 12

Traffic Safety Division Standard

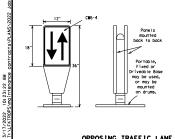
BARRICADE AND CONSTRUCTION CHANNELIZING DEVICES

BC(8)-21

| FILE: bc-21.dgn | ON: T: | COOT | cx: TxDOT | CRY | Tx00T | cx ₁ TxD0 |
|-------------------------------------|--------|----------------|-----------|-----|-------------|----------------------|
| ©Tx00T November 2002 | CONT | | Joe | | | CHIMAY |
| REVISIONS 4-03 8-14 9-07 5-21 | 6398 | 93 | 001 | | US 59, ETC. | |
| | DIST | COUNTY | | | | SHEET NO. |
| 7-13 | LFK | ANGELINA, ETC. | | | | 24 |
| 102 | | | | | | |



VERTICAL PANELS (VPs)



PORTABLE

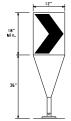
DISCLAIMER:
The use o
kind is made
of this stand

- Opposing Traffic Lane Bividers (01LB) are delineation devices designed to convert a more lane voltage section to teve eye content in the land of the l
- The OTLD may be used in combination with 42" cones or VPs.
- cores or VPs.

 Spocing between the OILD shall not exceed 500 feet. 42° cores or VPs placed between the OILD's shall not exceed 100 foot spocing.

 The OILD shall be orange with a block non-reflective legand. Specing for the OILD shall be orange with a block non-reflective largem. Specing for the OILD shall be retroreflective type Bg. or Type Cg. conforming to Reportmental Material Specification (DMS-300), unless noted otherwise. The legand shall need the regular method of MS-350.

OPPOSING TRAFFIC LANE DIVIDERS (OTLD)



- The chevron shall be a vertical rectangle with a minimum size of 12 by 18 inches.
- minima size of 2 by strokes.

 On the control of the
- 4. To be effective, the chevron should be visible for at least 500 feet.
- for at least 500 feet. She was a find a black name flee-tive legend. Seeting for the chevron shall be retroreflect in type by or Type Cq. conforming to unless noted otherwise. The legend shall seet the requirements of IMS-8300.

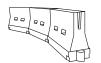
 6. For Long Term Stationary use on topers or transitions on freeeyes and divided highways, self-ir-jating chevrons stoy be used to supplement plastic drunes but not to replace plastic drunes.

GENERAL NOTES

- CEMERAL NOTES

 1. Bors Zone channel Izing devices il lustrated on this sheet may be installed in close procinity to traffic and are suitable for use on high or low speed roadways. The Engineer/Inspector shall ensure that specing and processor is an inform and in concordance with met "feets Municular Uniform and soundance with met "feets Municular Uniform and soundance with met "feets Municular Uniform and September 1. The special soundance with the specified in the Central States on this sheet may have a diversity, feet or portable base. The requirement for self-right ingomental Engineering states to specified in the Central State September 1. Sep

CHEVRONS



LONGITUDINAL CHANNELIZING DEVICES (LCD)

- LOSs or product the COD along the LOD along

WATER BALLASTED SYSTEMS USED AS BARRIERS

- In later boil cisted systems used as borriers shall not be used solely to channelize road users, but also to protect the work space per the appropriate Manual for Assessing Safety Nordance (MASI) creatmenthiness requirements based on rorier sould provide the control of the co

If used to channelize pedestrians, longitudinal channelizing devices or water ballosted 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

| Posted Speed | Formula | D | Minimu esirab er Len ** | le gths | Suggested Maximum Spacing of Channelizing Devices | | |
|-----------------|---------|---------------|----------------------------------|---------------|--|-----------------|--|
| | | 10' Offset | 11' Offset | 12' Offset | On a Taper | On a Tangent | |
| 30 | 2 | 1501 | 1651 | 1801 | 301 | 60' | |
| 35 | L = WS2 | 2051 | 2251 | 245' | 35′ | 70' | |
| 40 | 80 | 265' | 2951 | 3201 | 40' | 80' | |
| 45 | | 450' | 4951 | 540' | 45' | 90' | |
| 50 | | 5001 | 550' | 6001 | 501 | 100' | |
| 55 | L-WS | 5501 | 6051 | 660' | 551 | 110' | |
| 60 | L-#3 | 6001 | 660' | 720' | 601 | 120' | |
| 65 | | 650' | 7151 | 780' | 65' | 1301 | |
| 70 | 1 | 7001 | 7701 | 8401 | 70' | 140' | |
| 75 | | 750' | 8251 | 9001 | 75′ | 150' | |
| 80 | | 800, | 880' | 9601 | 801 | 160' | |

**XTaper lengths have been rounded off.
L-Length of Taper (FT.) #-#idth of Offset (FT.)
S-Posted Speed (MPH)

SUGGESTED MAXIMUM SPACING OF CHANNELIZING DEVICES AND
MINIMUM DESIRABLE TAPER LENGTHS

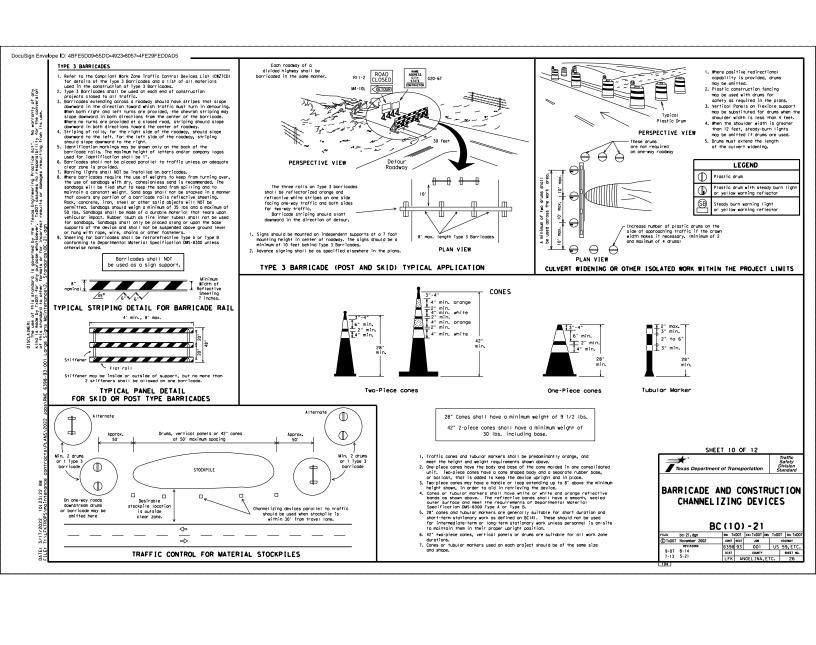
SHEET 9 OF 12

-

BARRICADE AND CONSTRUCTION CHANNELIZING DEVICES

BC (9) -21

| | | 0013 | | ~ . | | | |
|------------------------|---------------|-----------------|----------|-----------|---------|-----------|------------|
| FILE | bc-21.dgn | ON: T: | COOT | cks TxDOT | COTO | Tx00 | T cxx Tx00 |
| C TXXX | November 2002 | CONT | SECT JOB | | HICHMAY | | |
| | REVISIONS | 6398 | 93 | 001 | | US | 59, ETC |
| 9-07 8-14 7-13 5-21 | DIST | COUNTY | | | | SHEET HO. | |
| | LFK | ANGEL INA, ETC. | | | | 25 | |
| | | | | | | | |



WORK ZONE PAVEMENT MARKINGS

The Contractor shall be responsible for maintaining work zone and existing powement 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 IMUTCD 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).
- 6. When standard powement markings are not in place and the roadway is opened to traffic, 00 NOT PASS signs shall be erected to mark the beginning of the sections where possing is perhibited and PASS WITH CARE signs at the beginning of sections where possing is permitted.

RAISED PAVEMENT MARKERS

- 1. Raised pavement markers are to be placed according to the patterns on ${\rm BC}(12)$.
- All raised povement markers used for work zone markings shall meet the requirements of Item 672, "RAISED PAYEMENT MARKERS" and Departmental Material Specification DMS-4200 or DMS-4300.

PREFABRICATED PAVEMENT MARKINGS

- Removable prefabricated payement markings shall meet the requirements of DMS-8241.
- Non-removable prefabricated pavement markings (fail back) shall meet the requirements of DMS-8240.

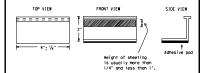
MAINTAINING WORK ZONE PAVEMENT MARKINGS

- The Contractor will be responsible for maintaining work zone pavement markings within the work limits.
- Work zone powerent 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-beem 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

- Powement markings that are no langer applicable, could create confusion or direct a motorist toward or into the closed partion of the roadway shall be removed or obliterated before the roadway is opened to traffic.
- Povement 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 TADOT Specification I tem 677 for "Eliminating Existing Povement Markings and Markers".
- The removal of pavement markings may require resurfacing or seal coating portions of the roadway as described in 1tem 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.
- 7. Over-painting of the markings SHALL NOT BE permitted.
- Removal of raised povement markers shall be as directed by the Engineer.
- Removal of existing powement markings and markers will be paid for directly in accordance with Item 677, "ELIMINATING EXISTING PAVEMENT MARKINGS AND MARKERS," unless otherwise stated in the plans.
- 10.Black-out marking tape may be used to cover conflicting existing markings for periods less than two weeks when approved by the Engineer.

Temporary Flexible-Reflective Roadway Marker Tabs



STAPLES OR NAILS SHALL NOT BE USED TO SECURE TEMPORARY FLEXIBLE-REFLECTIVE ROADWAY MARKER TABS TO THE PAYEMENT SURFACE

- Temporary flexible-reflective roadway marker tabs used as guidemarks shall meet the requirements of DNS-8242.
- Tobs 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 "8" below may be imposed to assure quality before placement on the roadeay.

 - secritor to determine specification control to the Secretary the Secretary to the Secretary to the Secretary the Secretary to the Secretary to the Secretary the Secretary to the Secretary the Secretary
- 3. 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 guidemorks shall be bituminous material hat applied or butyl rubber pad for all surfaces, or thermoplastic for concrete
- Guidemorks shall be designated as: YELLOW (two amber reflective surfaces with yellow body WHITE (one silver reflective surface with white body).

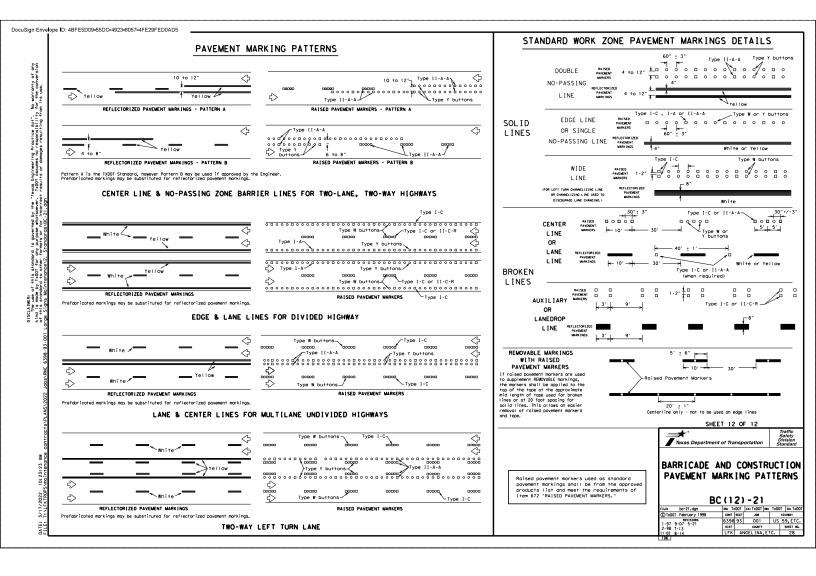
DEPARTMENTAL MATERIAL SPECIFICATIONS PAVEMENT MARKERS (REFLECTORIZED) TRAFFIC BUTTONS DMS-4300 EPOXY AND ADHESIVES DMS-6100 BITUMINOUS ADHESIVE FOR PAVEMENT MARKERS DMS-613 PERMANENT PREFABRICATED PAVEMENT MARKINGS DMS-824 TEMPORARY REMOVABLE, PREFABRICATED PAVEMENT MARKINGS DMS-824 TEMPORARY FLEXIBLE, REFLECTIVE ROADWAY MARKER TABS DMS-8242

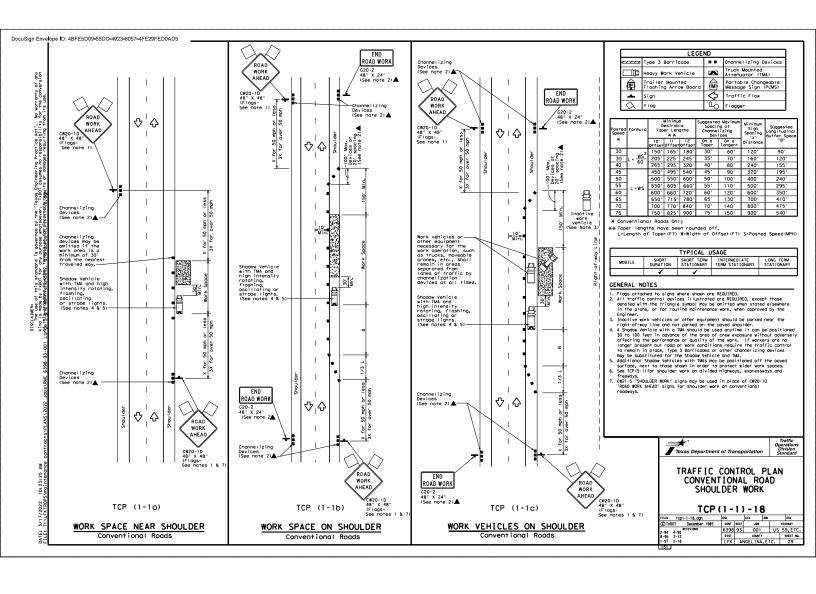
A list of prequalified reflective raised powement markers, non-reflective traffic buttons, roadway marker tabs and other powement markings can be found at the Material Producer List web address shown on BC(1).

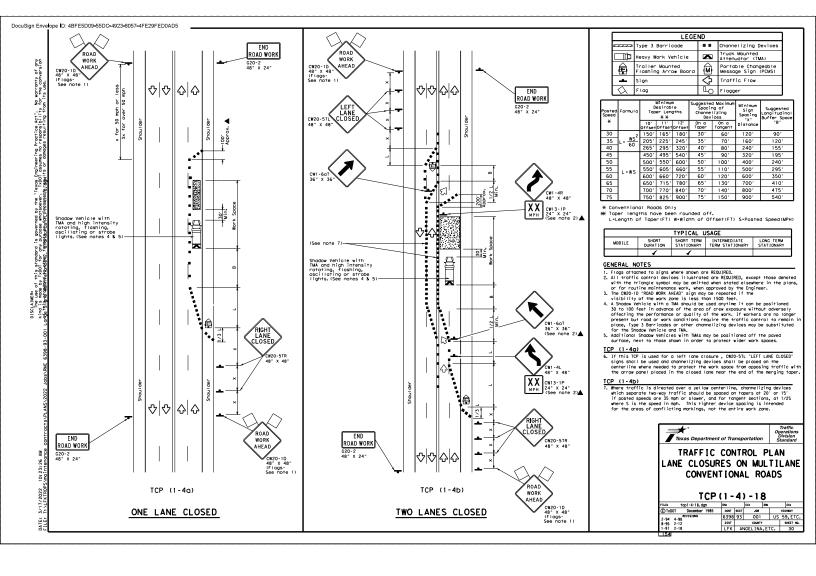


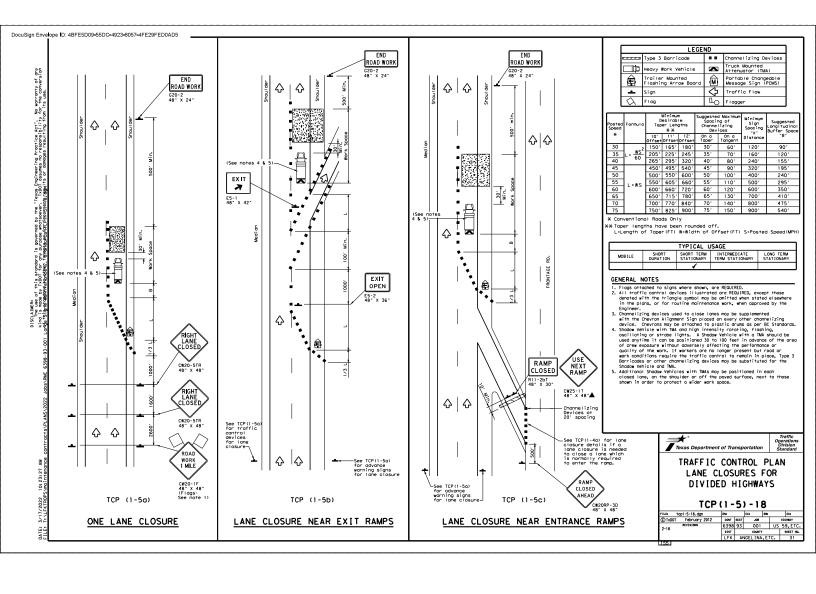
SHEET 11 OF 12

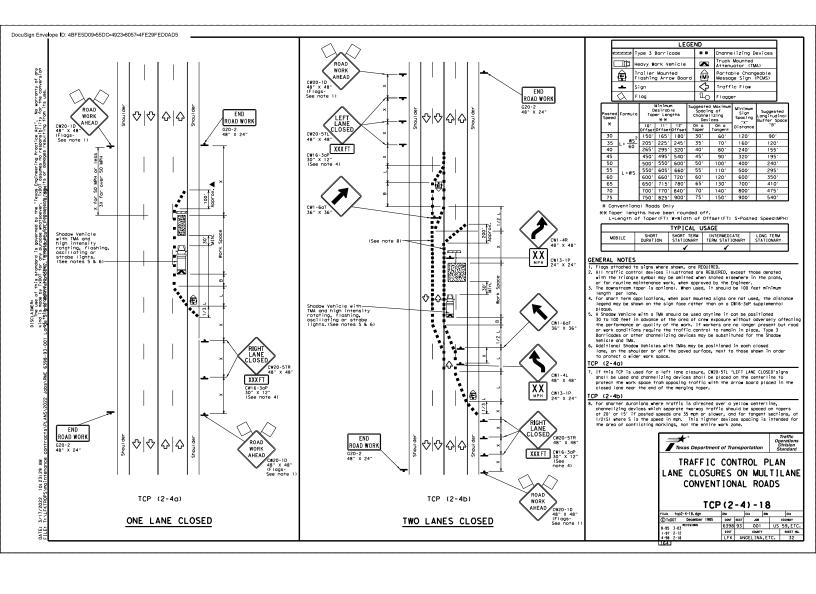
BC(11)-21 | 084 | Tx00T | 024 | Tx00T | 026 | Tx00T | 026 | Tx00T | 026 | Tx00T | 026 | 026 | 026 | 026 | 026 | 026 | 026 | 026 | 026 | 026 | 026 | 026 | 026 | 026 | 026 | 026 | 026 | 026 | 026 | 026 | 026 | 026 | 026 | 026 | 026 | 026 | 026 | 026 | 026 | 026 | 026 | 026 | 026 | 026 | 026 | 026 | 026 | 026 | 026 | 026 | 026 | 026 | 026 | 026 | 026 | 026 | 026 | 026 | 026 | 026 | 026 | 026 | 026 | 026 | 026 | 026 | 026 | 026 | 026 | 026 | 026 | 026 | 026 | 026 | 026 | 026 | 026 | 026 | 026 | 026 | 026 | 026 | 026 | 026 | 026 | 026 | 026 | 026 | 026 | 026 | 026 | 026 | 026 | 026 | 026 | 026 | 026 | 026 | 026 | 026 | 026 | 026 | 026 | 026 | 026 | 026 | 026 | 026 | 026 | 026 | 026 | 026 | 026 | 026 | 026 | 026 | 026 | 026 | 026 | 026 | 026 | 026 | 026 | 026 | 026 | 026 | 026 | 026 | 026 | 026 | 026 | 026 | 026 | 026 | 026 | 026 | 026 | 026 | 026 | 026 | 026 | 026 | 026 | 026 | 026 | 026 | 026 | 026 | 026 | 026 | 026 | 026 | 026 | 026 | 026 | 026 | 026 | 026 | 026 | 026 | 026 | 026 | 026 | 026 | 026 | 026 | 026 | 026 | 026 | 026 | 026 | 026 | 026 | 026 | 026 | 026 | 026 | 026 | 026 | 026 | 026 | 026 | 026 | 026 | 026 | 026 | 026 | 026 | 026 | 026 | 026 | 026 | 026 | 026 | 026 | 026 | 026 | 026 | 026 | 026 | 026 | 026 | 026 | 026 | 026 | 026 | 026 | 026 | 026 | 026 | 026 | 026 | 026 | 026 | 026 | 026 | 026 | 026 | 026 | 026 | 026 | 026 | 026 | 026 | 026 | 026 | 026 | 026 | 026 | 026 | 026 | 026 | 026 | 026 | 026 | 026 | 026 | 026 | 026 | 026 | 026 | 026 | 026 | 026 | 026 | 026 | 026 | 026 | 026 | 026 | 026 | 026 | 026 | 026 | 026 | 026 | 026 | 026 | 026 | 026 | 026 | 026 | 026 | 026 | 026 | 026 | 026 | 026 | 026 | 026 | 026 | 026 | 026 | 026 | 026 | 026 | 026 | 026 | 026 | 026 | 026 | 026 | 026 | 026 | 026 | 026 | 026 | 026 | 026 | 026 | 026 | 026 | 026 | 026 | 026 | 026 | 026 | 026 | 026 | 026 | 026 | 026 | 026 | 026 | 026 | 026 | 026 | 026 | 026 | 026 | 026 | 026 | 026 | 026 | 026 | 026 | 026 | 026 | 026 | 026 | 026 | 026 | 026 | 026 | 026 | 026 | 026 | 026 | 026 | 026 | 026 | 026 | 026 | 026 | 026 | 026 | 026 | 026 | 026 |

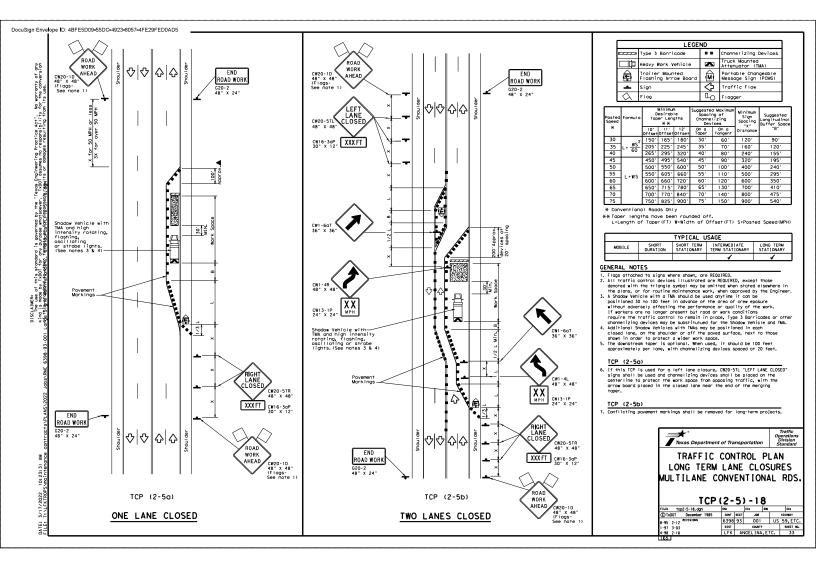


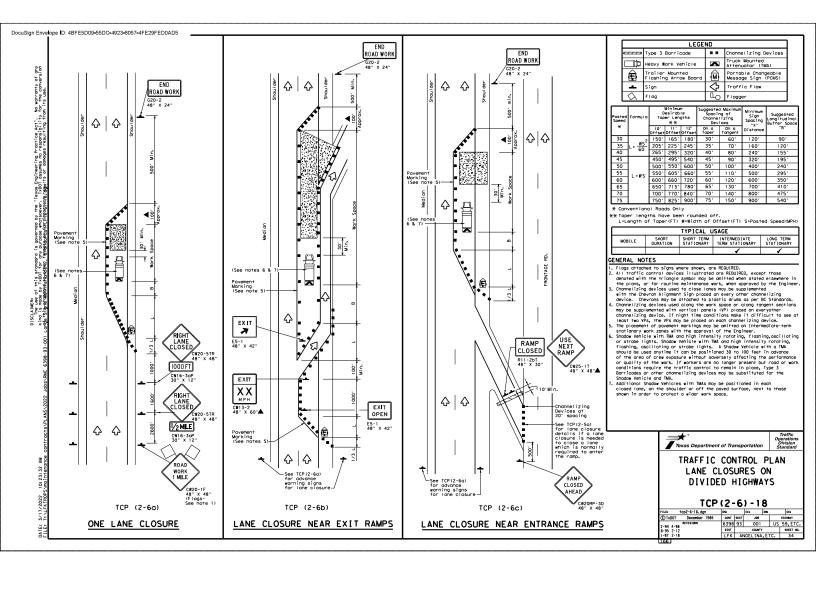


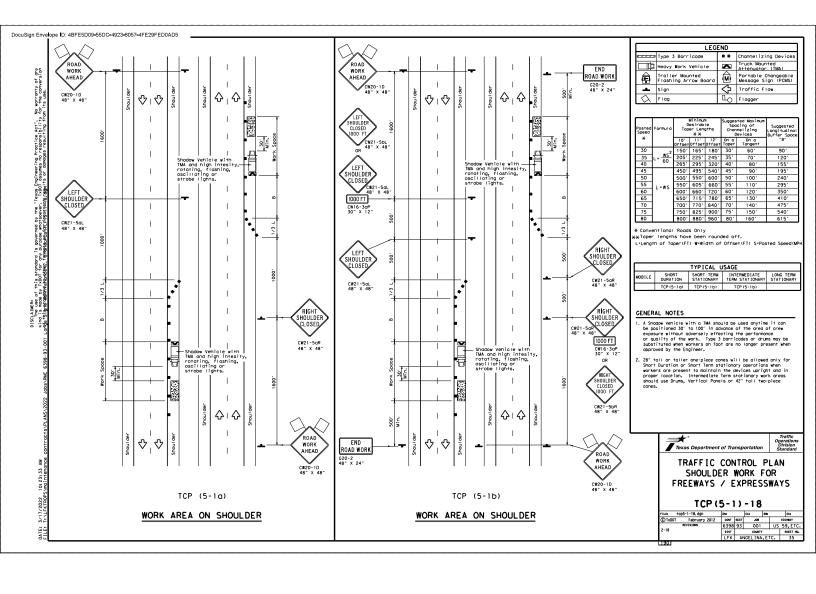


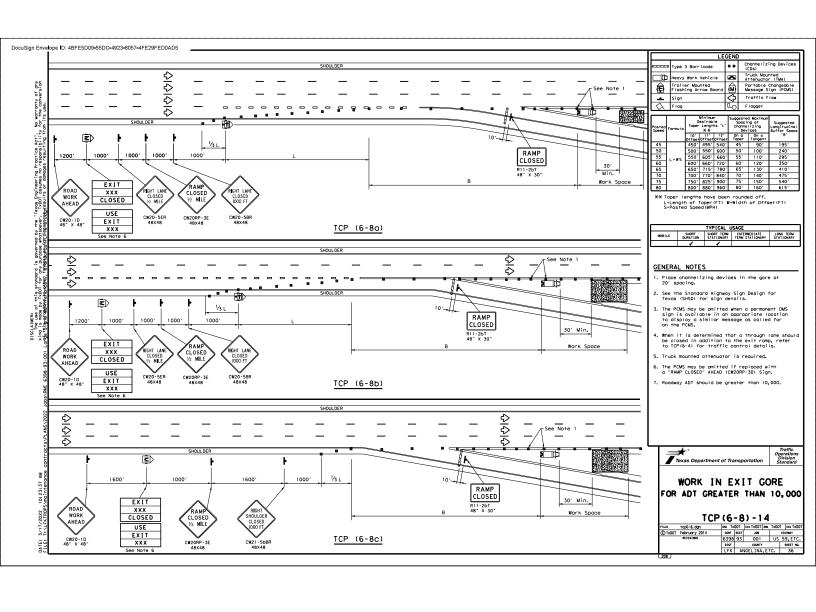


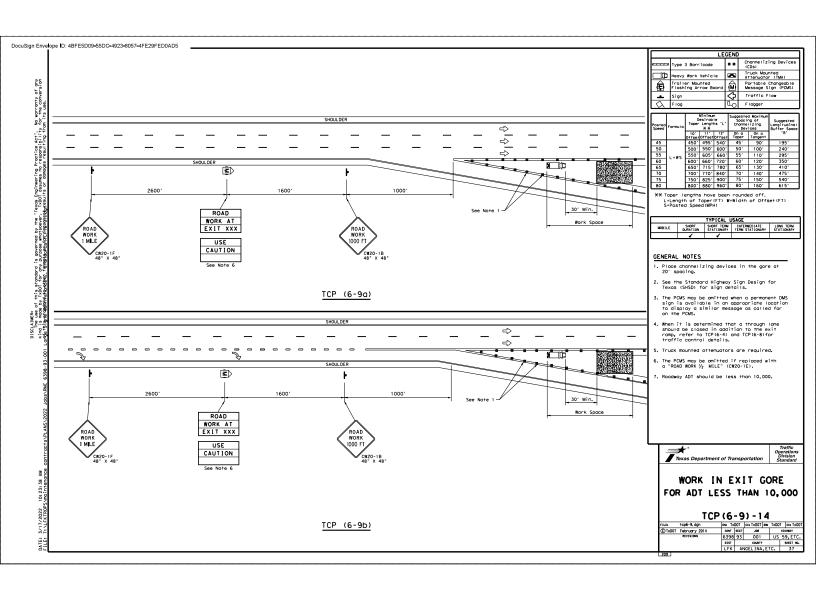


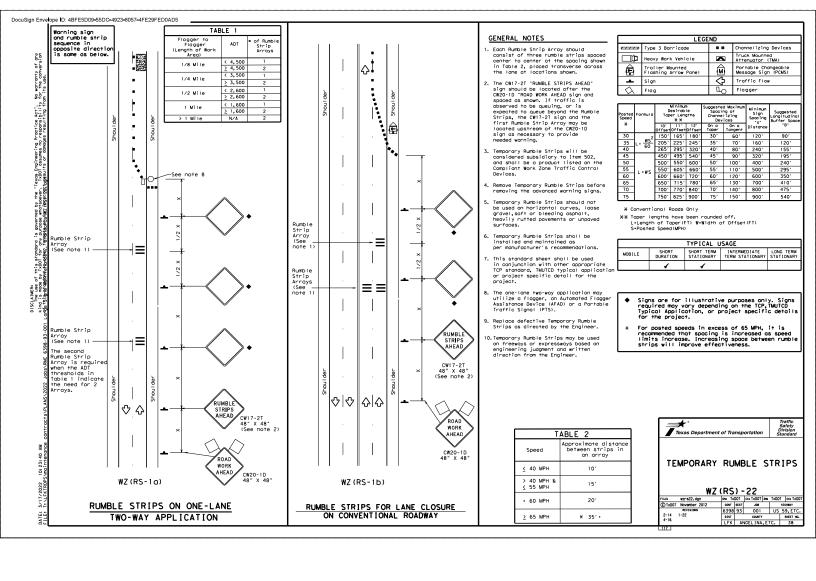


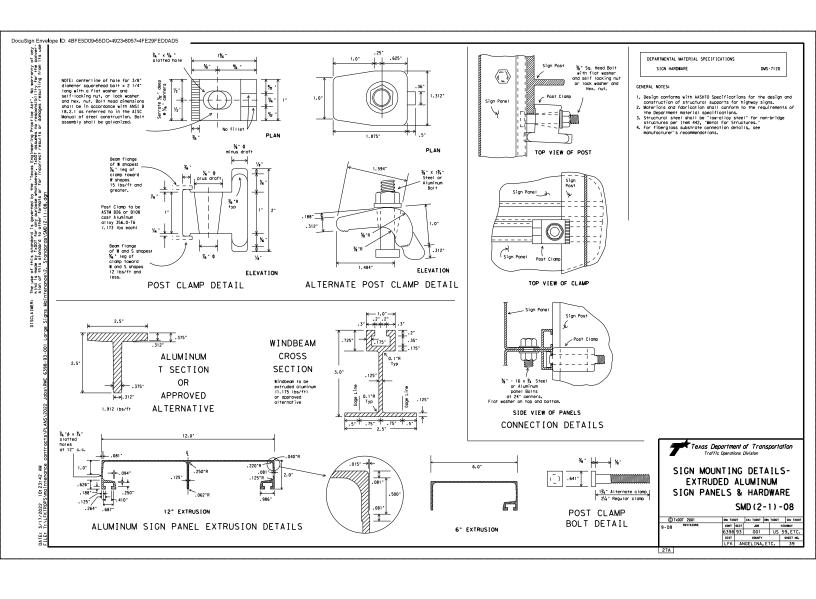


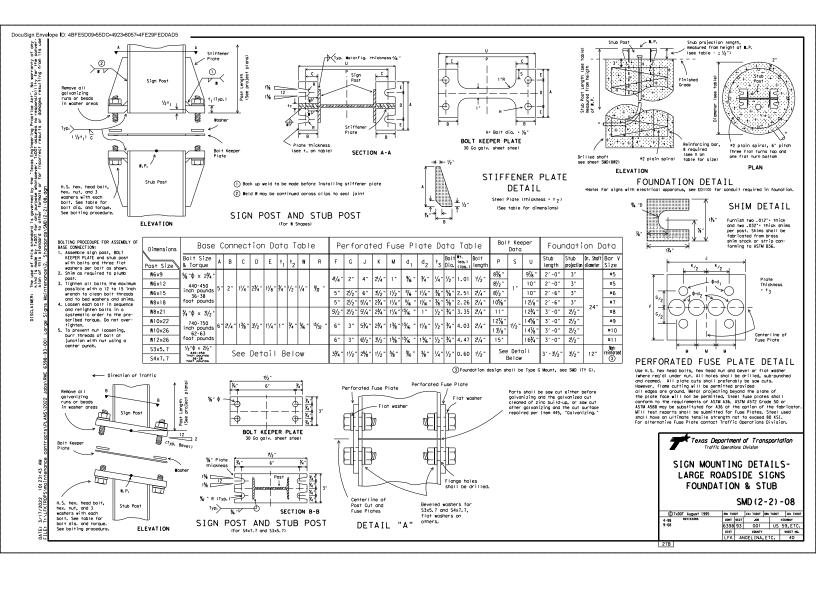


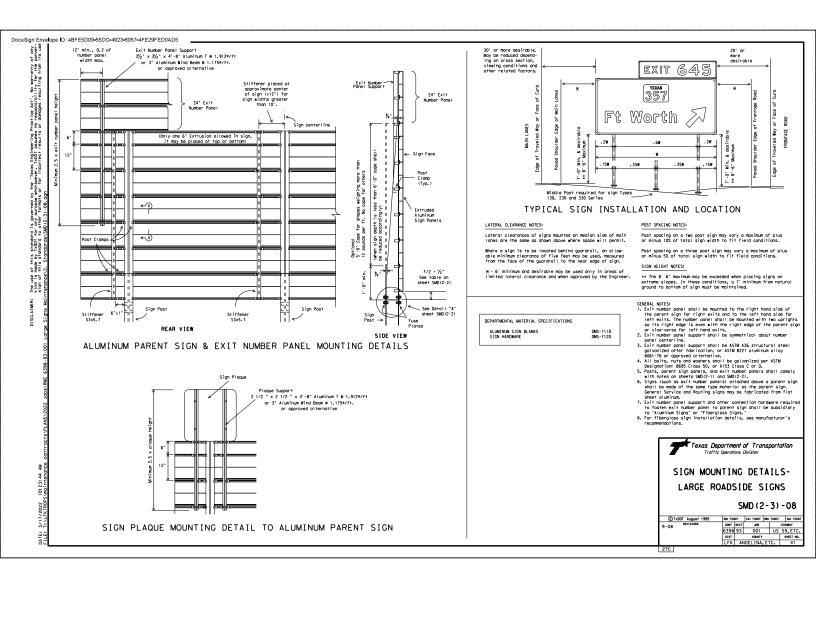


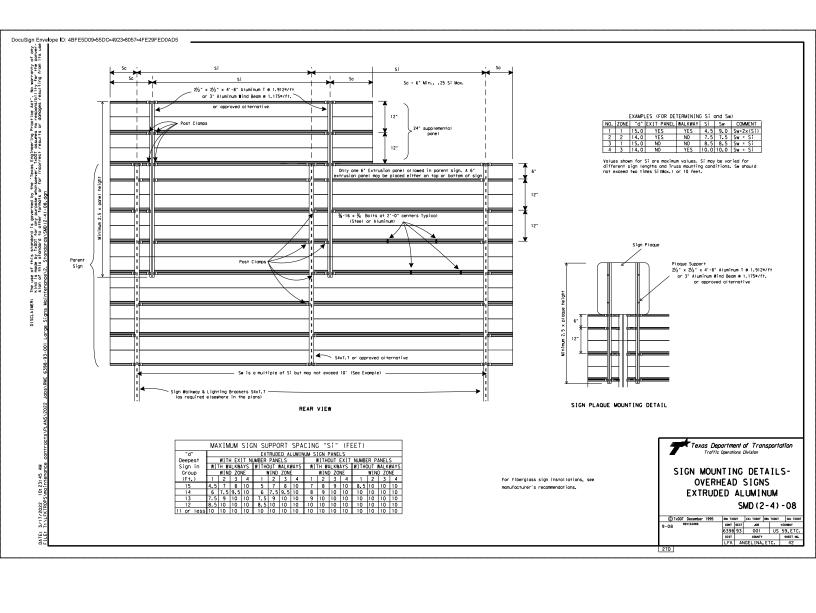


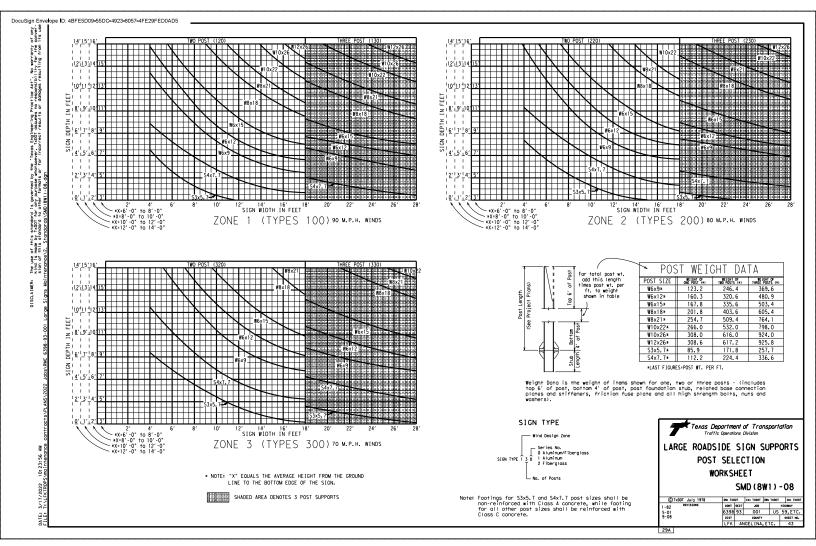


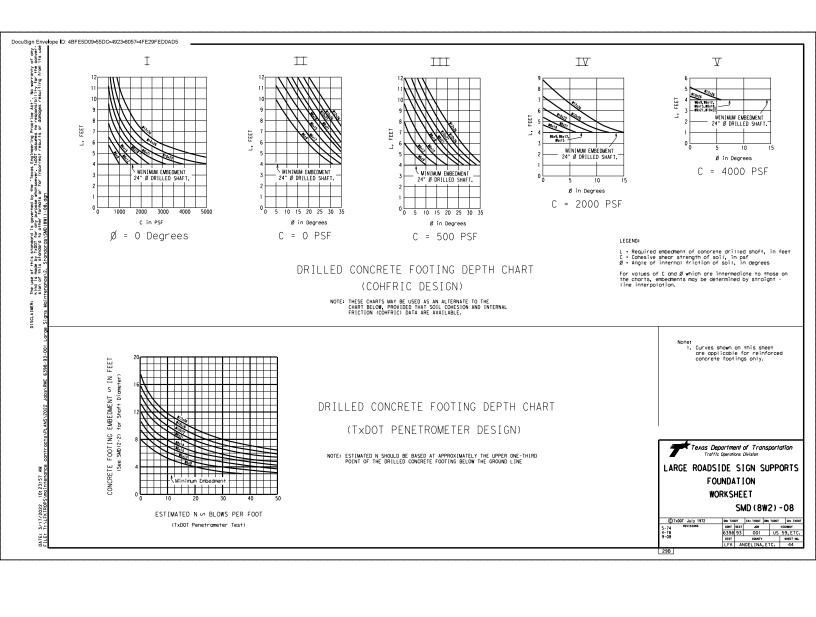


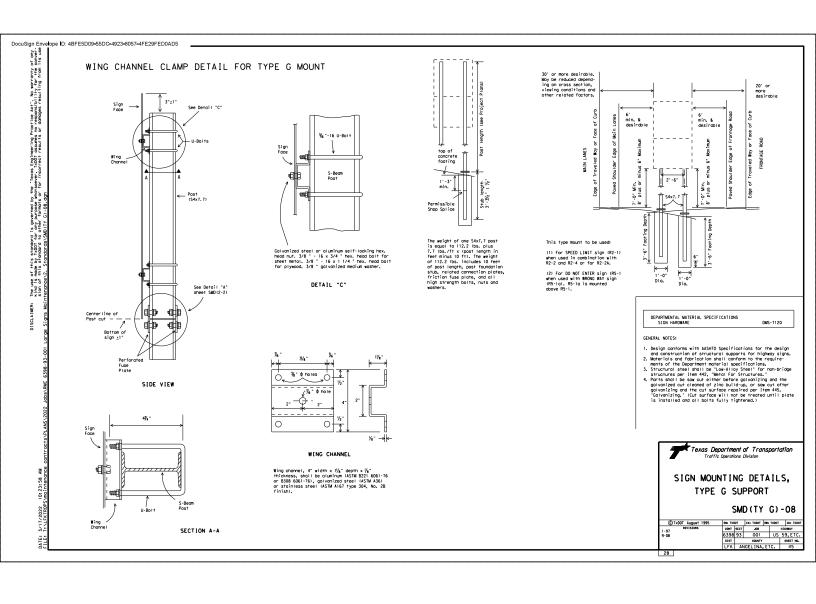


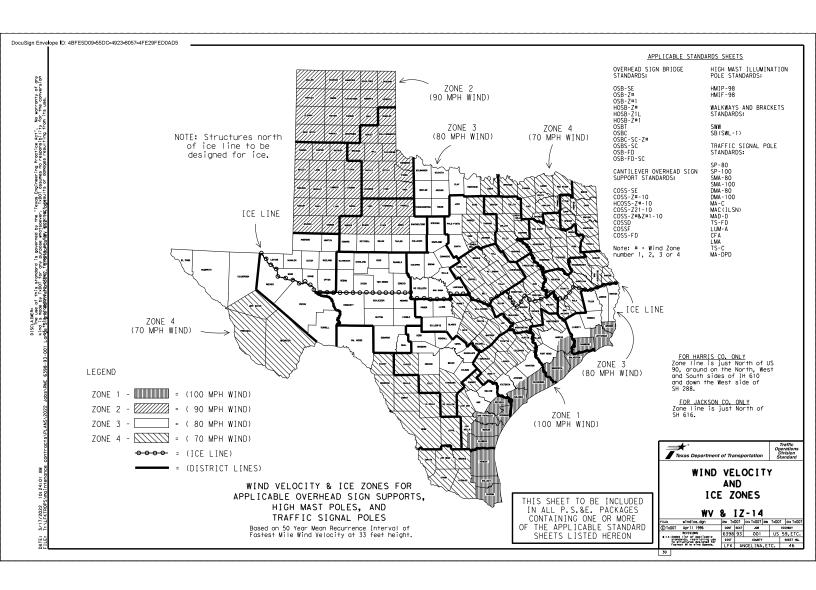












| The Continue of the Continue | DocuSign Envelop | e ID: 4BFE5D09-55DC-4923-8057- | 4FE29FED0AD5 | | | | | | |
|--|--|--|-----------------------------|--|---|--|---|---|--|
| resolved the profession with a factor and placed with the profession was extended to the control of the profession was the profession was extended to the control of the profession was the profession was extended to the profession was th | I t | | | | III. CULTURAL RESOURCES | | VI. HAZARDOUS MATERIALS OR CONTAMINATION ISSUES | | |
| Secretar behavior Continued Continue | warranty of any r the conversion its use. | required for projects with 1 or more cores disturbed soil. Projects with any disturbed soil must protect for erosion and sedimentation in accordance with Item 506. List MS4 Operator(s) that may receive discharges from this project. They may need to be notified prior to construction activities. | | | archeological artifacts are f archeological artifacts (bone work in the immediate area or X No Action Required | ound during construction. Upon discovery of is, burnt rock, flint, pottery, etc.) cease id contact the Engineer immediately. | Comply with the lozard Commitaction Act (the Act) for personnel who will be working with hozardous neterials by conducting safety meetings prior to beginning construction and making workers ower of potential nazards in the workplace. Ensure that all workers are provided with personal protective equipment appropriate for any hozardous materials used. Obtain and keep on-site Material Safety Data Sheets (MSDS) for all hozardous products used on the project, which may include, but ore not limited to the following caregoriest Points, acids, salvents, asphalf products, chemical additives, fuels and concrete curing compounds or additives. Provide protected storage, off pore ground and covered, for | | |
| consisting of report and reportance to a set from (one of plus or vertical consisting of report and reportance to a set from (one of plus or vertical consisting of report and reportance to a set from (one) and (one) and (one) are consistent or reportance to a set from (one) a | Act. No ibility for | Action No. 1. The proposed work of this project is to perform large sign maintenance consisting of repair and replacement to existing large signs at various locations within the Lufkin District. Therefore, this project meets the administrian of a routine maintenance activity as definition of a routine maintenance activity as defined in the TPDES General | | | 1. N/A | | Maintain an adequate supply of on-site spill response materials, as indicated in the MSDS. In the event of a spill, take actions to mitigate the spill as indicated in the MSDS, in accordance with safe work practices, and contact the District Spill Coordinator | | |
| NOTE IN OR REAR STREAMS, BATERBOOLES AND WETLANDS CLEAN WATER Act Setting Soil No. Contract Control Co | eering Proctice sumes no respons ନିର୍ମ୍ଭେକ୍ତିକେଟିମ୍ୟୁବଧି | | | | IV. VEGETATION RESOURCES | | of all product spills. Contact the Engineer if any of the fol * Dead or distressed vegetation (n * Trash piles, drums, conister, bo * Undesirable smells or odors | lowing are detected: of identified as normal) rrels, etc. | |
| 1. MOR. IN ON STREAMS, MITEROOUS AND WELLANDS CLEAN MATER ACT SECTIONS (a) JAM (04) MOR (11) NO NEAR STREAMS, MITEROOUS Agreement and the second of th | . Texas Engir ir. TxDOT ass regjegeejtteg | | | Preserve notive vegetorion to the extent procetical. Controveror must controve to Construction Specification Requirements Specs 152, 164, 192, 193, 596, 730, 751, 752 in order to comply with requirements for invasive species, Specifical Industrial Controversion Control Control Control | | Does the project involve ony bridge class structure rehabilitation or replacements (bridge class structures not including box culverts)? | | | |
| Action to, The Contractors may active to call of the ferms and conditions associated with the foliarly general rate. Pith resulted from a special contraction of the foliar from the foliar f | d by the not soeve coesserent | | | | No Action Required | Required Action | If "Yes", then TxDOT is responsible for completing asbestos assessment/inspection. Are the results of the asbestos inspection positive (is asbestos present)? | | |
| The Control co | est Ferre | | | | Action No. | | | DSHS licensed ashestos consultant to assist with | |
| Section Sect | d is go ony purp forments | | | | 1. N/A | | the notification, develop abatement/mitigation procedures, and perform management activities as necessary. The notification form to DSHS must be postmarked at least | | |
| Section Sect | for for | No Permit Required | | | | | | red to notify DSHS 15 working days prior to any | |
| Section Sect | this s 74eMer | | | | | | In either case, the Contractor is r activities and/or demolition with a | areful coordination between the Engineer and | |
| Section Sect | Ra ode b | = | | | | CRITICAL HABITAT, STATE LISTED SPECIES, CANDIDATE SPECIES | | Any other evidence indicating possible hazardous materials or contamination discovered on site. Hazardous Materials or Contamination Issues Specific to this Projects | |
| Section Sect | SCLAIME The L | _ | | | | | | | |
| No Action Required Required Action Require | 001 Langkin | and check Best Management Practices planned to control erosion, sedimentation | | | If any of the listed species are observed, cease work in the immediate area | | Action No. | | |
| Action No. Action No. | 98-93 | 1. N/A | | | ⊠ No Action Required | Required Action | | | |
| Action No. No. Action Required Required Action No. | Ç 63 | | | <u> </u> | | | | | |
| Best Management Practices: Eros ion Sed imentation Post-Construction TSS deprocry Vegetation Stiff fence Vegetative Filter Strips Retention/Irrigation Systems Standard Standa | Dbs/R | | | | Action No. | | | | |
| Best Management Prooffices: Frosion Sedimentation Post-Construction TSS Temporary Vigetation Stiff Fence Vegetative Filter Strips Texas Department of Transportation Stiff Fence Stream Foreign Standard | 7 22 | | | | 1. N/A | | Action No. | | |
| Erosion Sed imentation Post-Construction TSS Temporary Vegetation Silf Fence Vegetative Filter Strips Biownets/Marting Rock Bern Retention/Irrigation Systems Retention/Irrigation Systems Sodding Sod | ANS/2 | PANS Z S S S S S S S S S S S S S S S S S S | | | | | 1. N/A | | |
| Temporary Vegetation Sitt Fence Vegetative Filter Strips Bellanders/Notifing Rock Berm Retention/Irrigation Systems Standard | 18/PL | Best Management Practices: | | | | | | | |
| Section Stiff Force Section Stiff Force Section Stiff Force | +rac: | | | | | | | → * Design | |
| Sodding Sord Bog Berm Constructed Betlands ISSUES AND COMMITMENTS | - S | _ | _ | _ | | | | Division | |
| Interceptor Seale Strow Balle Dike strow Balle Dike Deciment of Seale Deciment of Seale Deciment of Seale Deciment of Strow Balle Pollution Prevention Control and Countermosure Seale Soft Deciment of Seale Balle Deciment of Strow Balle Deciment of Seale Balle Deciment of Strow Balle Deciment of Seale Balle Deciment of Strow Balle Deciment of Str | 103 A | _ | _ | _ | | | - | ENVIRONMENTAL PERMITS, | |
| Corporation Dike | 10:24 main | ☐ Interceptor Swale ☐ Straw Bale Dike ☐ Met Basin | | ☐ Wet Basin | BMP: Best Management Practice SPCC: Spill Prevention Control and Countermeasure | | | ISSUES AND COMMITMENTS | |
| Wuich Filter Berm and Socks Wuich Filter Berm and Socks Compost Filter Berm and Socks Walch Filter Berm and Socks Compost Filter Berm and Socks Co | 22 ROPS | _ | _ | _ | DSHS# Texas Department of State Health Ser | vices PCN: Pre-Construction Notification | | EPIC | |
| MBTAs Migrotory Bird Treaty Act Txx001: Texas Department of Transportation (C) 10011 February 81 (MBTAs Migrotory Bird Treaty Act Txx001: Texas Department of Transportation | 17/20 LEKT | | | | MOA: Memorandum of Agreement MOU: Memorandum of Understanding | TCEO: Texas Commission on Environmental Quality TPDES: Texas Pollutant Discharge Elimination System | | | |
| Sediment Basins Grassy Swales Not: Orange Fermit USANCE U.S. Army Corps of trighners Sediment Basins Grassy Swales NOI: Notice of Infent USPWS: U.S. Fish and Wildlife Service Sediment Basins Grassy Swales Noi: Notice of Infent USPWS: U.S. Fish and Wildlife Service Sediment Basins Sediment Basins Grassy Swales Noi: Notice of Infent USPWS: U.S. Fish and Wildlife Service Sediment Basins Sediment Ba | % É | Compost Filter berm dnd Sock | Stone Outlet Sediment Trops | Sand Filter Systems | MBTA: Migratory Bird Treaty Act NOT: Notice of Termination | TxDOT: Texas Department of Transportation T&E: Threatened and Endangered Species | | 12-12-2011 100s REVISIONS 6398 93 001 US 59, ETC. | |
| | PILE | | Sediment Basins | Grassy Swales | NO!: Notice of Intent | | | TO TITEL BOOK ADDRESS GREEN SECTION IV. 10.43-10-10-10-10-10-10-10-10-10-10-10-10-10- | |