1. Solicitation No.  
   CSP 21-008  
   City Wide Streets Project - Union Avenue and Comal Avenue Improvements

2. Contract No.  

3a. Addendum No.  1

3b. Modification No.

4. Effective Date of this Action  
   January 8, 2021

5. Name and Address of Offeror or Contractor

6. For Information Call:  
   (No collect calls or Fax offers accepted)  
   Purchasing: Barbara Coleman  
   Phone No.: 830-221-4389  
   Fax No.: 830-608-2112

7. Amount of Contract/Order is:  
   Increased by:  
   Decreased by:  
   New Total:  □ Unchanged

8. THIS BLOCK APPLIES TO AMENDMENTS OF SOLICITATIONS ONLY:  
   The above numbered solicitation is amended as set forth in Block 10 below.  
   □ The date and time specified for receipt of offers IS NOT extended.  
   □ THE DATE AND TIME SPECIFIED FOR RECEIPT OF OFFERS IS CHANGED TO:

   Offerors must acknowledge receipt of this amendment prior to the date and time specified in the solicitation or as amended,  
   by one of the following methods:  
   (i) By completing Blocks 5 and 11 and returning this Addendum in the number of copies specified for the solicitation;  
   (ii) By acknowledging receipt of this Addendum on each copy of the bid submitted; or,  
   (iii) By separate letter, telegram, or fax referencing the solicitation and addendum.

   If by virtue of this Addendum offeror desires to change an offer already submitted, such change may be made by letter, telegram, or fax,  
   provided each such notice makes reference to the solicitation AND this Addendum, and is received prior to the date and time specified.

   NOTICE: NON-RECEIPT OF YOUR OFFER AND THIS ADDENDUM AT THE DESIGNATED PLACE WITHIN THE  
   DATE AND TIME SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER.

9. THIS BLOCK APPLIES TO MODIFICATIONS TO CONTRACTS, DELIVERY OR PURCHASE ORDERS ONLY.  
   The above numbered Contract, Delivery, or Purchase order is modified as set forth in block 10 below.  
   □ This Change Order is issued in accordance with authority granted by instrument referenced in block 2.  
   □ The instrument in Block 2 is modified to reflect administrative changes.  
   □ This Supplemental Agreement is entered into pursuant to the Authority of:  
   □ Other (Specify type of modification and authority):  _____________________________.  
   □ CONTRACTOR IS REQUIRED TO SIGN THIS DOCUMENT AND RETURN ONE ORIGINAL.  
   □ Contractor is not required to sign this document but is requested to acknowledge receipt.

10. DESCRIPTION OF CHANGES -

   This Addendum No. 1 is being issued to support the following changes:

   - Minutes to the Preproposal Meeting Minutes

   - Additional attachments as supporting documents:  
     * Questions and Answers received during the inquiry period (no inquiries received)  
     * Exhibit 1 - Proposal form - Excel Formate  
     * Technical Support - revised plan sheets and technical specifications

   Except as provided herein, all terms and conditions of the document referenced above remain unchanged and in full force and effect.

11a. SIGNATURE OF OFFEROR OR CONTRACTOR

   CITY OF NEW BRAUNFELS, TEXAS

   "Barbara Coleman"

   January 8, 2021

11b. PRINTED NAME AND TITLE

   Barbara Coleman

   Purchasing Manager

11c. DATE

   Date
1. **Announcement of Solicitation: CSP 21-008 “City Wide Streets Project – Union Avenue and Comal Avenue Improvements”**
   
   A. Solicitation Schedule:
      1. Date issued: December 17, 2020
      2. Non-Mandatory Pre-Proposal Conference: January 5, 2021 at 2:00 P.M. (Central Time)
         Hosted via zoom.
      3. All questions must be submitted to Barbara Coleman no later than January 7, 2021 by 5:00 P.M. (Central Time).
      4. All proposals are due to New Braunfels City Hall, City Secretary Office - Attention: Purchasing, no later than 3:00 P.M. (Central Time) on January 20, 2021.
      5. Proposals will be read aloud virtually via Zoom: https://us02web.zoom.us/j/81385324765
         Telephone Only: (833) 926-2300
         Webinar ID: 813 8532 4765
   
   6. **Notice of Award:** It is the City’s intent to make its recommendation to City Council for approval in February 2021.

2. **Introductions (Staff)**
   
   A. Barbara Coleman, Purchasing Manager – **primary point of contact until the contract is awarded.**
      Phone: (830) 221-4389   Email: bcoleman@nbtexas.org
   
   B. Charlie Blue, City Project Manager
      Phone: (830) 221-4644   Email: CBlue@nbtexas.org
   
   C. Byron Sanderfer, P.E. with LNV – Supporting Union Ave Improvements
   
   D. John Moy, P.E. with Pawelek & Moy, Inc. – Supporting Comal Ave Improvements

3. **Description of Work:**
   
   This solicitation is for combined “Streets” projects to be proposed together. It is the intention of the City to award both “Streets” Union Avenue and Comal Avenue Improvements Projects as a single contract to one vendor. The city may elect, at its sole discretion, to not award one of the “Streets” Project if the combination of both exceed the City’s projected budget for these projects. If such election is made and only one of the “Streets” Project is awarded, then the time for substantial completion will be adjusted accordingly.
Both projects are located within the City of New Braunfels.

A. Union Ave Improvements are located on Union Ave. between Common St. and Austin St.

Scope of Work of work includes mill and overlay from face of curb to face of curb, street base repair as needed, addition of 6-foot sidewalks along the south/west side of Union Ave. to provide pedestrian connectivity, replacement of curb where needed according to the project plans.

B. Comal Ave Improvements are located on Comal Ave. between San Antonio St. and Garden St.

Scope of Work of work includes mill and overlay from face of curb to face of curb, street base repair as needed, addition of sidewalks to provide pedestrian connectivity, replacement of curb where needed according to the project plans.

4. **Engineer’s Opinion of Probable Construction Costs** for the Work on both projects: $1,352,519.00

5. Review of Bidding Procedures

A. Solicitation documents may be obtained at:
   - The City of New Braunfels’ website, [http://www.nbtexas.org/2694/Active-Solicitations](http://www.nbtexas.org/2694/Active-Solicitations)

B. **Submission:** Proposer must follow proposal instructions notated within Sections 1 through 5 of the solicitation documents to provide consistency for the evaluation committee.

1) Deadline for submittal of Questions and Requests for clarifications will be **Jan. 7, 2021.**

2) All proposals are due to New Braunfels City Hall, City Secretary Office - Attention: Purchasing, **no later than 3:00 P.M. (Central Time) on January 20, 2021.**

3) All proposals must be time stamped by the City Secretary’s Office at the New Braunfels City Hall.

4) Proposals received after the time and date set for submission will be returned, unopened, upon request.
PRE-PROPOSAL CONFERENCE MINUTES  
January 5, 2021

To join the webinar: https://us02web.zoom.us/j/83962788774  
Telephone Only:  (833) 926-2300  
Webinar ID: 839 6278 8774

5) Delivery Address  
Purchasing Department  
City of New Braunfels  
550 Landa Street  
New Braunfels, TX 78130

Labeled:  
CSP 21-008  
Union Ave & Comal Ave Imp.  
Due: Jan. 20, 2021 – 3pm

C. Required Proposal Documents:

TAB 1 – Solicitation and Offer Form; completed and signed.  
TAB 1 – Acknowledgment of Addenda, if applicable.  
TAB 2 – Cover Letter: Name and address of the Proposer, as well as a brief description of the firm and its history  
TAB 3 – Executive Summary: A brief summary highlighting the most important points of the proposal.  
TAB 4 – Cost Proposal Form (Exhibit 1)  
TAB 5 – Qualifications of Proposer (Exhibit 4)  
TAB 6 – Plan and Schedule as required in (Exhibit 4), Qualifications of Proposer, Section 5. Multiple schedules are requested.  
TAB 7 – Acceptable Documentation  
- Bond Form - Proposal Guaranty/Bid Bond in an amount no less than five percent (5%) of price proposal – Exhibit 2  
- One copy of Certificate of Insurance completed and signed (Section 4.13).  
- Conflict of Interest (Section 4.14.11).  
- Certificate of Interested Parties; Form 1295 (Section 4.14.10).  
TAB 8 – Required information indicated in Drawings, if applicable.  

Required after contract award – Performance, Payment and Maintenance Bonds – Exhibit 2

6. General Information

A. CONTRACT TIMES:

1. Days to Achieve Substantial Completion and Final Payment: The Work will be substantially completed within 150 calendar days after the date when the Contract Times commence to run.  
2. Days to completed and ready for final payment within 180 calendar days after the date when the Contract Times commence to run.
The substantial completion schedule will be further defined with the final contract.

B. **Liquidated Damages:** $500 for each calendar day that expires after the time specified.

7. **Other Instructions**

A. **Evaluation Criteria** –
   - Cost Proposal Form (60 points)
   - Relevant Experience and Other Considerations (20 points)
   - Overall Experience, Qualifications, Past Relationship with the City (10 points)
   - Plan and Schedule (10 points)
   - Financial Capacity (pass/fail)

B. **Bonding & Insurance** –
   - Bid Bond (5%)
   - Performance (100%) Equal to Contract Amount
   - Payment (100%) Equal to Contract Amount

C. **Insurance and Liability Coverage** – Section 4, 04.15.01

D. **Retainage:** (5%)

E. **Prevailing wage rates:** Davis Bacon Wage Rates – Attachment 2 – Prevailing Wage Schedule

F. **General Contractor Registration with the City:** Section 04.10.01, 05.22.01

G. **Anti-Lobbying:** Section 4.16.08

8. **Proposal Form – Exhibit 1** –
   - Lump Sum

9. **Technical Discussion – Project Manager and Engineer:**
   A general description of the project was shared.

10. **Questions and Answers:**
    The City’s official response(s) will be provided in an Addendum released after the final date for questions.
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### Union Avenue and Comal Avenue Improvements

**Exhibit 1 - CSP 21-008 - PROPOSAL FORM**

**CITY WIDE STREETS PROJECT**

**Revised - Addendum 1 - 1-8-2021**

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<td>CLA CONC (STEPS)</td>
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## Exhibit 1 - CSP 21-008 - PROPOSAL FORM

**CITY WIDE STREETS PROJECT**

**Union Avenue and Comal Avenue Improvements**

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<th>Item</th>
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<th>Unit</th>
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<td>30</td>
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**TOTAL BID AMOUNT FOR COMAL AVENUE**

**TOTAL PROPOSAL PRICE FOR ALL PROJECTS**

**SIGNATURE AUTHORIZATIONS ARE ON THE FOLLOWING PAGE**

The undersigned proposer does hereby declare and stipulate that this proposal is made in good faith, and it is made in pursuance of and subject to all the terms and conditions of the advertisements, proposal documents and requirements, Addenda, Agreement and General Conditions, and the Contract Documents, including the Plans and Specifications pertaining to the work, all of which have been examined by the undersigned proposer. The undersigned hereby declares that he/she has visited the site or has ample opportunity to visit the site, has had sufficient time to make all tests and investigations to arrive at an intelligent estimate of the cost of doing the work, and has carefully examined the Plans, Specifications, and Contract Documents relating to the work covered by his/her proposal, and that he/she agrees to do the work, and that no representations made by the City are in any sense a warranty, but are mere estimates for guidance of the contractor.

The undersigned further agrees that he/she will provide all necessary tools and apparatus, do all work, furnish all materials, and do everything required to carry out the work covered by this proposal, in strict accordance with the Contract Documents, and the requirements pertaining thereto, for the Total Proposal Price for each station.

**ADDENDA:** The undersigned hereby acknowledges receipt of the following addenda to the Drawings and Specifications, and all of the provisions and requirements of which addenda have been taken into consideration in the preparation of this Proposal.

Addendum No. 1 dated _______________ Received _______________

Addendum No. 2 dated _______________ Received _______________

Addendum No. 3 dated _______________ Received _______________

Offeror: __________________________________________________________
ALL STANDARD SPECIFICATIONS APPLICABLE TO THIS PROJECT ARE IDENTIFIED AS FOLLOWS:

**TELLAS DEPARTMENT OF TRANSPORTATION**  
**STANDARD SPECIFICATIONS FOR CONSTRUCTION**  
**AND MAINTENANCE OF HIGHWAYS, STREETS, AND BRIDGES**

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<td>Dense-Graded Hot Mix-Asphalt</td>
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<td>Barricades, Signs, and Traffic Handling</td>
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<td>Temporary Erosion, Sedimentation, and Environmental Controls</td>
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<td>Concrete Curb, Gutter, and Combined Curb and Gutter</td>
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<td>Intersections, Driveways, and Turnouts</td>
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<td>Raised Pavement Markers</td>
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**Project Totals**: 1,100.00

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**Erosion Control Summary**

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**Project Totals**: 1.00

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**Union Avenue Maintenance Project**

**Quantities**

**Scale**: NTS

---

**Byron Sandefur**

9/24/2021
Traffic Control Plan

1. It is the contractor's sole responsibility to see that all traffic control devices are properly installed and maintained at the site to ensure public safety and traffic flow.

2. The contractor shall provide temporary traffic control devices and personnel as necessary to control traffic at the site. Temporary traffic control devices shall be removed when the work is completed.

3. The contractor shall provide temporary traffic control devices and personnel as necessary to control traffic at the site.

Traffic Control Plan (Continued)

13. Permanent pavement markings shall be applied prior to the opening of the completed streets to traffic. Temporary pavement markings shall be removed after the completion of the project.

14. The contractor shall be responsible for the maintenance of permanent pavement markings and shall notify the City of any necessary maintenance.

15. The contractor shall provide temporary traffic control devices and personnel as necessary to control traffic at the site.

Sequence of Work

1. Install barricades and shiffty items.

2. Construct concrete curbs, gutters, and sidewalks.

3. Install access devices and other appurtenances.

4. Install street lighting and signs.

5. Install grass boxes and plant materials.

6. Install street trees and other appurtenances.

7. Install street trees and other appurtenances.

8. Install street trees and other appurtenances.

9. Install street trees and other appurtenances.

10. The contractor shall maintain the site to ensure public safety and traffic flow.

11. The contractor shall provide temporary traffic control devices and personnel as necessary to control traffic at the site.

12. The contractor shall provide temporary traffic control devices and personnel as necessary to control traffic at the site.

13. The contractor shall provide temporary traffic control devices and personnel as necessary to control traffic at the site.

14. The contractor shall provide temporary traffic control devices and personnel as necessary to control traffic at the site.

15. The contractor shall provide temporary traffic control devices and personnel as necessary to control traffic at the site.

Scale: NTS

City of New Braunfels
Maintenance Project

Traffic Control Plan Notes

Bryan Sanders
9/24/20

City of New Braunfels
Maintenance Project

Traffic Control Plan Notes

Bryan Sanders
9/24/20
NO PASSING ZONES ON TWO-LANE TWO-WAY ROADS

TABS ON CENTERLINES OF TWO-LANE TWO-WAY ROADS

For seal coat, micro-surface or similar operations

"DO NOT PASS" SIGN (RA-1) and NO-PASSING ZONES

A. Prior to the beginning of construction, all currently existing no-passing zones shall be signed with the "DO NOT PASS" (RA-1) signs and "PASS ROAD" (RA-2) signs placed at the beginning and end of each zone for each direction in which traffic is to be prohibited. The signs shall be placed on the centerline of the roadway, on the edge of the roadway, or where other markings are used to indicate the no-passing zone. No-passing zones need not be covered prior to construction if the signs supplement the existing pavement markings.

B. In the discretion of the Engineer, in areas of numerous no-passing zones, several zones may be combined in one. The zones may be placed on the same or separate sides of the roadway. No-passing zones shall be placed at one of the following points:

1. At the beginning and end of no-passing zones
   - 100 feet before and after the no-passing zone
   - 50 feet before and after the no-passing zone
   - Every 2 miles

C. No-passing zones shall be placed at the end of no-passing zones, at a distance equal to the length of the no-passing zone.

D. In areas where there is significant distance between no-passing zones, the end of the no-passing zones may be signed with "DO NOT PASS" signs and a "NEAR X" sign placed at the beginning of each zone.

E. Depending on traffic volumes and lengths of sections, it may be desirable to prohibit passing throughout the project to prevent traffic congestion and delays. The "DO NOT PASS" sign and "NEAR X" signs should be used only as necessary to control traffic during this period. Where several existing zones are to be combined into one no-passing zone, the sign at the beginning of the zone shall be covered until the surfacing operation has passed this location.

F. The "DO NOT PASS" signs and "NEAR X" signs are to remain in place until standard pavement markings are installed.

GENERAL NOTES

1. Traffic control devices detailed on this sheet are furnished and applied as directed by the Engineer on sections of roadway where traffic shall be closed prior to the surfacing operation and will not cover or obliterate the existing pavement markings.

2. The devices shown on this sheet are to be used to supplement traffic control devices required by the 80 Standards or other traffic control devices applied by the Engineer on sections of roadway where traffic shall be closed prior to the surfacing operation and will not cover or obliterate the existing pavement markings.

3. Signs shall be erected as detailed on the 80 Standards on the proper sides of the roadway on a 48" x 48" traffic control devices (TCP) sign support.

4. Signs on divided highways, freeways or expressways, the size of the control device shall be 48" x 48".

5. Signs on divided highways, freeways or expressways shall be placed on both sides of the roadway based on roadway conditions as directed by the Engineer.

PAVEMENT MARKINGS

A. Temporary markings for surfacing projects shall be temporary pavement markings. These markings shall be applied by the Engineer. These markings are to be used to provide clear alignment for surfacing areas or as the basis for surfacing. After the surfacing is applied, the markings shall be removed.

B. Temporary markings for surfacing operations shall be installed after the surfacing is completed. The markings shall not be used to control traffic.

COORDINATION OF SIGN LOCATIONS

A. The location of warning signs, the beginning and end of a work area are to be coordinated with the Engineer to ensure adequate sign spacing.

B. In areas where the surfacing work is performed on both sides of the roadway, the temporary pavement markings shall be placed on both sides of the roadway.

C. The temporary pavement markings shall be placed on both sides of the roadway.

COORDINATION OF SIGN LOCATIONS FOR SURFACING OPERATIONS

A. The location of warning signs, the beginning and end of a work area are to be coordinated with the Engineer to ensure adequate sign spacing.

B. Where possible, the temporary pavement markings shall be placed on both sides of the roadway.

C. The temporary pavement markings shall be placed on both sides of the roadway.

D. The temporary pavement markings shall be placed on both sides of the roadway.

E. The temporary pavement markings shall be placed on both sides of the roadway.

F. The temporary pavement markings shall be placed on both sides of the roadway.

G. The temporary pavement markings shall be placed on both sides of the roadway.
ROAD CLOSURE BEYOND THE INTERSECTION
Sign for a Numbered Route with an Off-Site Detour

ROAD CLOSURE AT THE INTERSECTION
Sign for an Un-numbered Route with an Off-Site Detour
NOTE:
1. REFER TO SHEETS 1A-21 FOR TAVING AND PAINT MARKING LAYOUTS.
2. REFER TO SHEET 25 FOR DRIVEWAY PENETRATIONS.
3. CONTRACTOR MUST NOT AFFECT EXISTING GUTTER PATTERN ALONG UNION AVE DURING IMPROVEMENTS.
4. REFER TO SHEET 22 FOR DRAINAGE IMPROVEMENTS.

LEGEND
- WASTE WATER
- POTABLE GAS
- POTABLE WATER
- POWER
- SIGNALS
- UNDERGROUND PHONE OPTIC
- UNDERGROUND POWER
- CEMENT FEED
- WATER METER
- WATER VALVE
- SAN IRRIGATION
- DRAINAGE
- FREEWAY METER
- DRAINAGE VALVE
- DRAINAGE PIPE
- DRAINAGE VALVE READ
- ROCK FILTER Dinerary

UNION AVENUE
MAINTENANCE PROJECT
PLAN VIEW LAYOUT
STA 26+00 TO STA 34+00
SHEET 3 OF 4

BYRON SANDERS
Byron Sanders, PE
1/4/2021

1/4/2021

HORIZ SCALE 1" = 40'
SCALE 1" = 20'
DRIVEWAY APRON
(RESIDENTIAL - ONE OR TWO FAMILY)

Functional Section

NOTE: WHERE SETTERT'S DO NOT CHAIN DRIVEWAY APRON TO END OF SETTERT'S MATERIALS

1. WHERE SETTERT'S DO NOT CHAIN DRIVEWAY APRON TO END OF SETTERT'S MATERIALS

2. MATERIALS OF SETTERT'S DO  NOT CHAIN DRIVEWAY APRON TO END OF MATERIALS

3. MATERIALS OF SETTERT'S DO  NOT CHAIN DRIVEWAY APRON TO END OF MATERIALS

4. MATERIALS OF DRIVEWAY APRON TO END OF MATERIALS

5. MATERIALS OF DRIVEWAY APRON TO END OF MATERIALS

6. MATERIALS OF DRIVEWAY APRON TO END OF MATERIALS

7. MATERIALS OF DRIVEWAY APRON TO END OF MATERIALS

8. MATERIALS OF DRIVEWAY APRON TO END OF MATERIALS

9. MATERIALS OF DRIVEWAY APRON TO END OF MATERIALS

10. MATERIALS OF DRIVEWAY APRON TO END OF MATERIALS

DRIVEWAY SUMMARY

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TOTAL 471 29

SCALE: NTS

DRAWN BY: DESIGNER: REVIEWED:

City of New Braunfels
DRIVEWAY STANDARDS
AND SUMMARY

UNION AVENUE
MAINTENANCE PROJECT

DATE: 1/4/2021

NVL-03102414-004
CITY OF NEW BRAUNFELS
1404 COMMERCIAL AVENUE
NEW BRAUNFELS, TX 78130
WWW.LNVAC.COM

BYRON SANDERSON, P.E.
RM# 115592
CITY OF NEW BRAUNFELS
### Work Zone Short Term Pavement Markings Details

#### Double No-Passing Line
- **Type**: 4 - 12" wide lines with 4" shoulder
- **Material**: Paint
- **Color**: White

#### Solid Lines
- **Type**: 20 - 24" or 24 - 12" wide lines
- **Color**: Yellow

#### Single No-Passing/Line on Channelizing Line
- **Type**: 20 - 24" or 24 - 12" wide lines
- **Color**: Yellow

#### Broken Lines
- **Type**: 8 - 10" wide lines
- **Color**: Yellow

#### Wide Dotted Lines (or Lane Drop Lines)
- **Type**: 12 - 16" wide lines
- **Color**: White

#### Wide Gore Markings
- **Type**: 12 - 20" wide lines
- **Color**: White

### Work Zone Short Term Pavement Markings Patterns

#### Center Line & No-Passing Zone Barrier Lines for Two Lane Two-Way Highways
- **Type**: • White lines

#### Lane Lines for Divided Highway
- **Type**: • White lines

#### Lane & Center Lines for Multilane Undivided Highways
- **Type**: • White lines

#### Two-Way Left Turn Lane
- **Type**: • White lines

### Temporary Flexible, Reflective Roadway Marker Tabs (TABS)

1. **Type**: 4 - 12" wide lines with 4" shoulder reflective strips
2. **Color**: Yellow

### Prefabricated Pavement Markings

- **Type**: 8 - 12" wide lines

### Raised Pavement Markers

- **Height**: 3" above road surface

### Departmental Material Specifications (EMS) & Material Producer Lists (MPL)

REFLECTIVE RAISED PAVEMENT MARKERS
FOR VEHICLE POSITIONING GUIDANCE

CENTERLINE FOR ALL TWO LANE ROADWAYS

CENTERLINE AND LANE LINES FOR TWO-WAY LEFT TURN LANE

CENTERLINE & LANE LINES
FOR FOUR LANE TWO-WAY HIGHWAYS

LANE LINES FOR ONE-WAY ROADWAY (NON-FREeway FACILITIES)

GENERAL NOTES:

1. All raised pavement markers placed in broken lane lines shall be placed in line with and midway between the solid lines.

2. On concrete pavement the raised pavement markers should be placed to one side of the longitudinal lines.

RAISED PAVEMENT MARKERS

REFLECTORIZED PROFILE PATTERN DETAIL

A quick field check for the thickness of base line and profile painting is approximately equal to the thickness of 1-1/4 inches plus a nominal height of 1-1/16 inches.

NOTE:

RAISED PAVEMENT MARKERS SHALL NOT BE PLACED ON ROADS WITH A POSTED SPEED LIMIT OF 65 MPH OR LESS.
GENERAL NOTES

1. If motoring or other signs, MEDIAN ROAD (CMN-11) signs should be placed in increments of the condition and be repeated every 400 ft where the condition persists.

2. UNEVEN LANE (CMN-11) signs shall be installed in advance of the condition and repeated every 400 ft. Signs installed along the uneven lane condition may be supplemented with the MEDIAN ROAD (CMN-11) plaque or Advisory Speed (CMN-11) plaque.

3. NO LANE (CMN-11) signs and temporary pavement markings or per the WZ (UL-) 13 signs shall be installed if yellow center lane separation or two yellow lines separate the lanes and the center line markings are not in place. The signs and markings shall remain in place until permanent pavement markings are furnished.

4. Signs shall be placed at the distances recommended per the BC standards.

5. Additional signs may be required as directed by the Engineer. Signs shall remain in place until final surface is applied. Signs shall be considered auxiliary to the final markings, signs and traffic analysis.

6. Signs shall be reflected and mounted on supports as shown on the BC standards and/or listed on the "Compliant Work Zone Traffic Control Devices" file.

7. Short-term markings shall not be used to indicate lane lines.

8. All signs shall be constructed in accordance with the details found in the "Horizontal and Vertical Alignment Design Guide for Texas," latest edition.

Table 1

| Edge Condition | Edge Height (ft) | Warning Devices |
|----------------|-----------------|-----------------
| 1              | Less than equal to 4 1/2 36" (explanatory) | Sign CMN-11 |
| 2              | Less than equal to 2 36" | Sign CMN-11 |
| 3              | 0" to 3/4" | Nortexed Nudge Joint |

TRAFFIC CONTROL DURING PLANNING, OVERLAY AND LEVELING OPERATIONS ARE SHOWN ELSEWHERE IN THE PLAN.

MINIMUM WARNING SIGN SIZE

- Conventional roads: 36" x 36"
- Highways/expressways, divided roadways: 48" x 69"
FILTER DAM AT TOE OF SLOPE

General Notes
1. If shown on the plans or directed by the Engineer, filter dams should be placed near the toe of slopes where erosion is anticipated. Location shall be determined by the Engineer and/or downstream bank protection structures, and in roadway ditches and culverts to control sediment.
2. A filter dam shall consist of a filter (Type 1) at the toe of the slope. The filter shall be extended to the base of the slope.
3. The filter dam shall be extended to the base of the slope.
4. Side slopes shall be protected with filter dams. The filter dams shall be extended to the base of the slope.
5. Filter dams shall be extended to the base of the slope.
6. Filter dams shall be extended to the base of the slope.
7. The filter dam shall be extended to the base of the slope.

Filter Dam at Sediment Trap

Profile

V-Shape Plan View

PLAN VIEW

SECTION A-A

SECTION B-B

SECTION C-C

FILTER Dams at Channel Sections

FILTER Dam Usage Guidelines

Plan Sheet Legend

Temporary Erosion, Sediment and Water Pollution Control Measures

Rock Filter Dams

EC(2) - 16
EROSION CONTROL LOG AT DROP INLET

EROSION CONTROL LOG AT CURB INLET

EROSION CONTROL LOG AT CURB INLET

NOTE:
EROSION CONTROL LOGS USED AT CURB INLETS SHOULD ONLY BE USED IF THEY WILL NOT IMPEDE TRAFFIC OR FLOOD THE ROADWAY OR WHEN THE STORM SEWER SYSTEM IS NOT FULLY FUNCTIONAL.

SECTION B-B

SANDBAG DETAIL

SHEET 3 OF 3

TEMPORARY EROSION, SEDIMENT AND WATER POLLUTION CONTROL MEASURES
EROSION CONTROL LOG
EC(9)-16