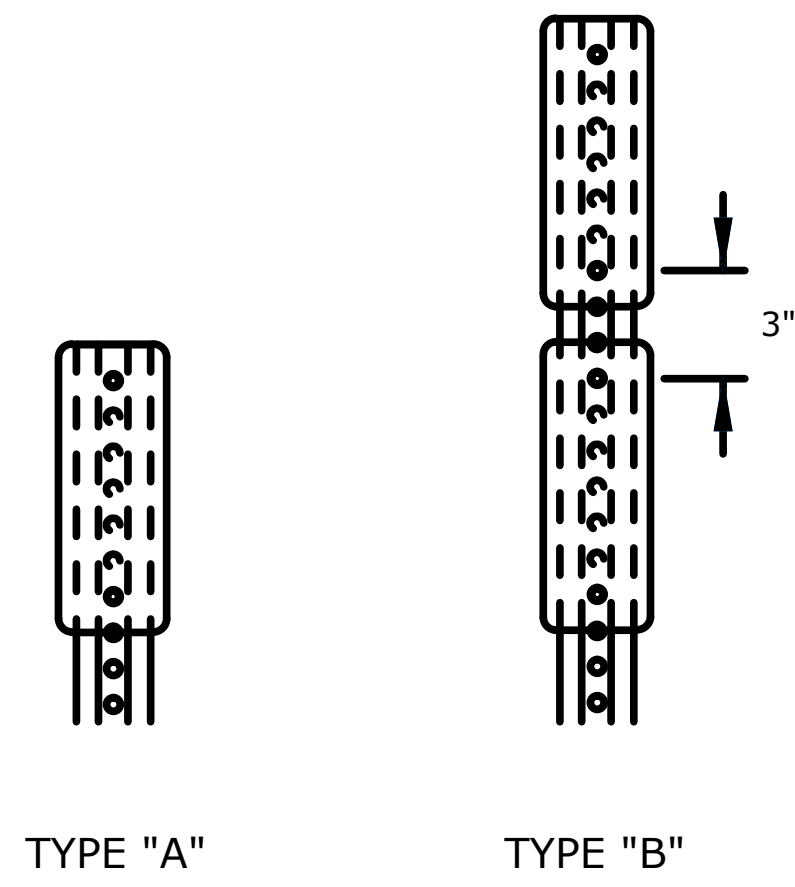




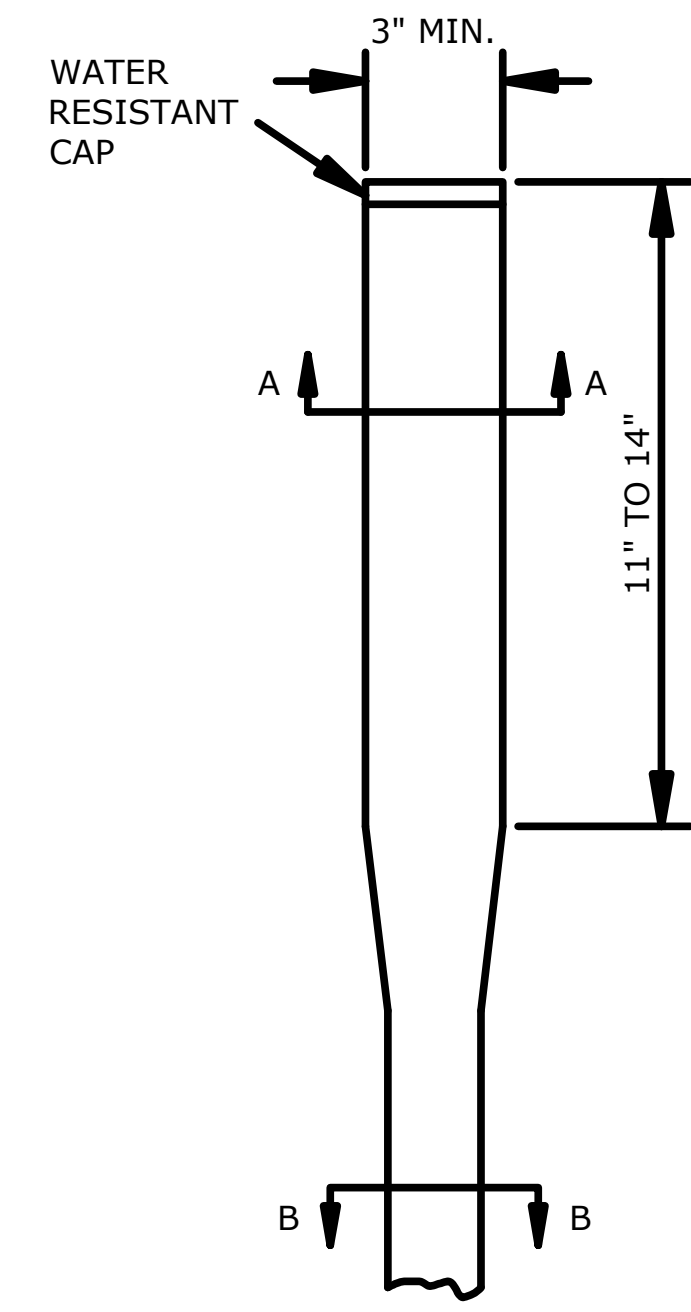
| STATE  | PROJECT NO.   | YEAR | SHEET NO. | TOTAL SHEETS |
|--------|---------------|------|-----------|--------------|
| KANSAS | 87 TE-0397-01 | 2014 | SD602     |              |

F.A. TEA-T039(701)  
C.O.W. 472-85109

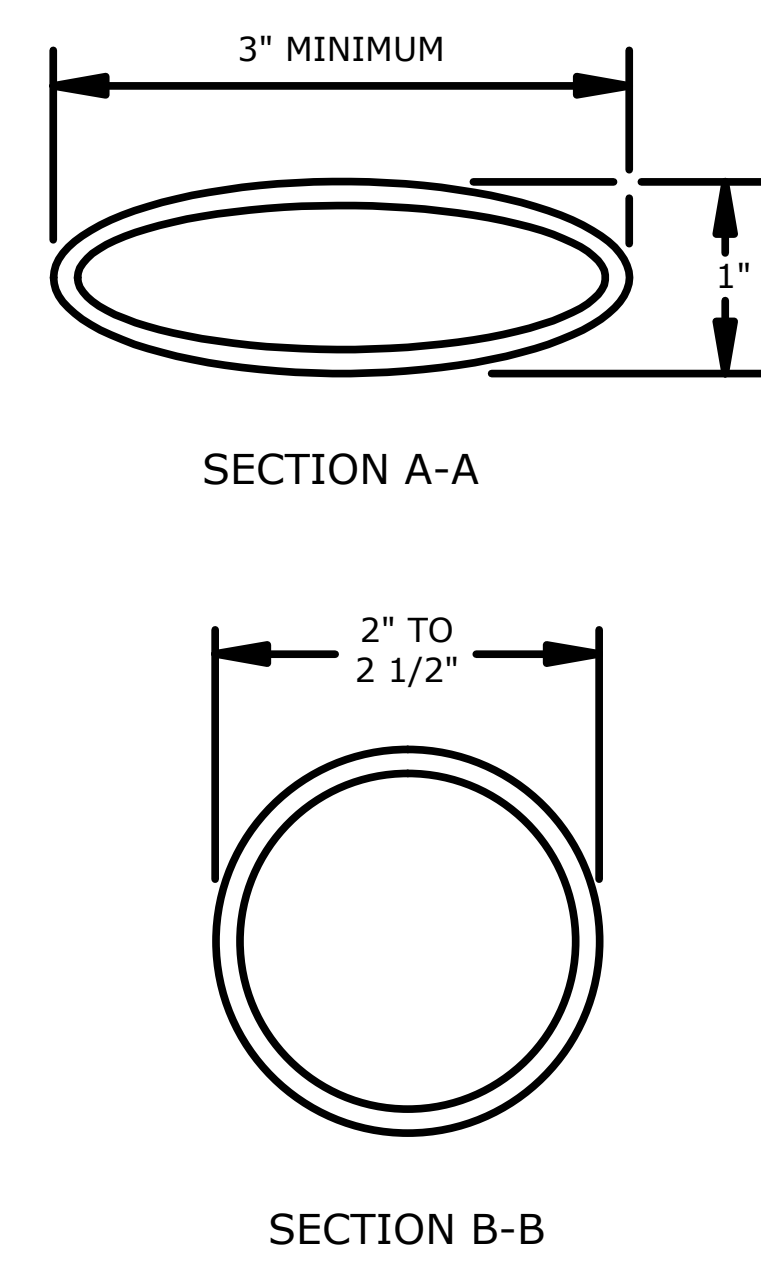


**TYPICAL DELINEATOR ASSEMBLY POSITIONS FOR STEEL POST MOUNTING**

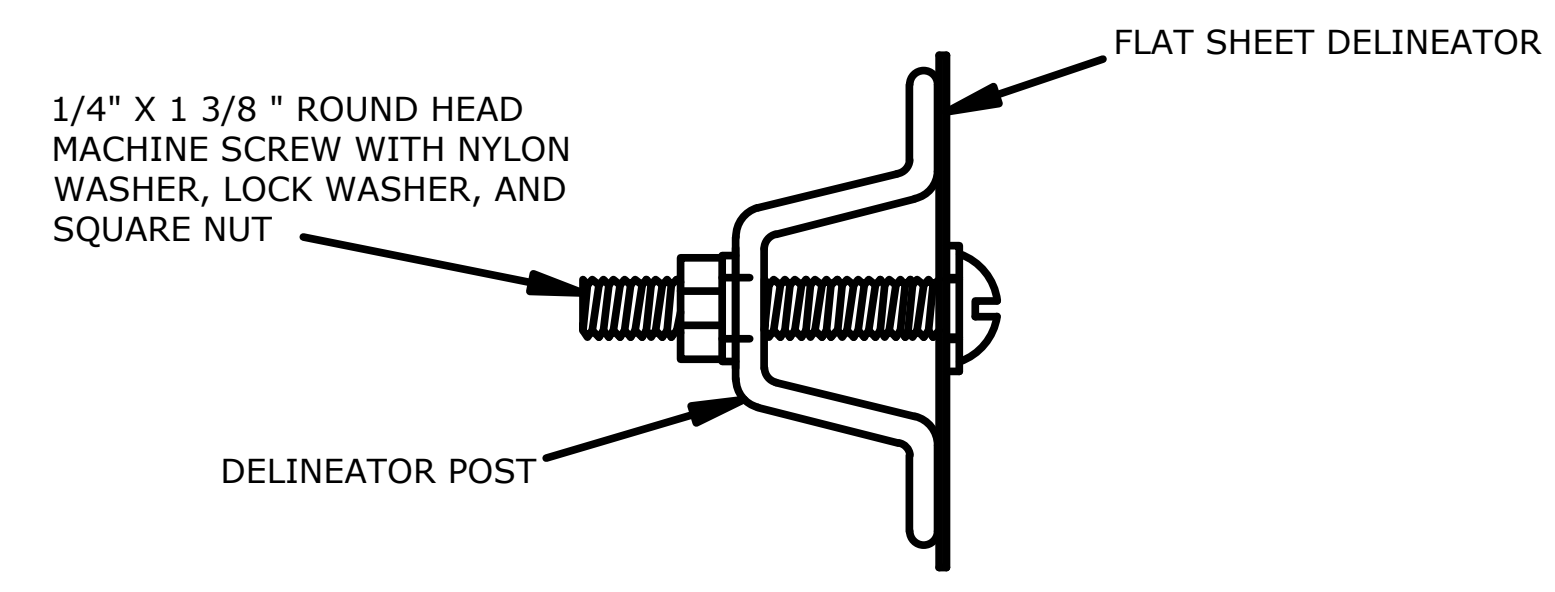
FLAT SHEET DELINEATORS:  
SEE FLAT SHEET SIGN BLANK DETAIL SHEETS FOR THE REQUIRED ALUMINUM ALLOYS AND THICKNESS.  
  
THE 3 IN X 8 IN DELINEATOR SIGN FACE SHALL BE COVERED WITH TYPE IV HIGH INTENSTIY WHITE OR YELLOW RETROREFLECTIVE SHEETING.



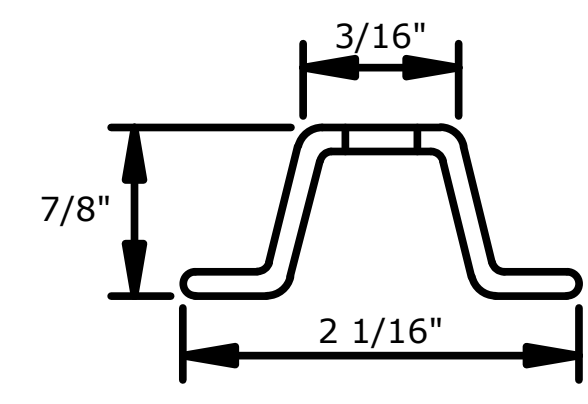
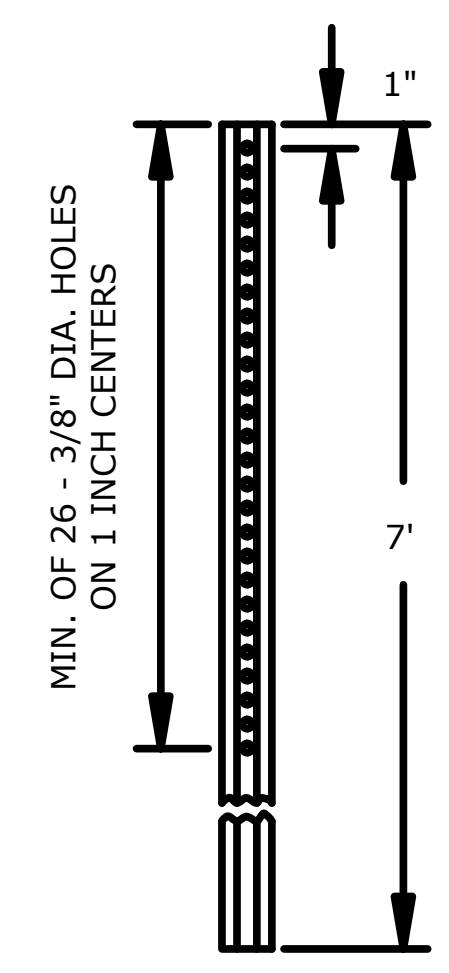
**FLEXIBLE DELINEATOR POST DETAILS**



**TYPICAL REFLECTORIZED AREA POSITIONING FOR FLEXIBLE POST MOUNTING**

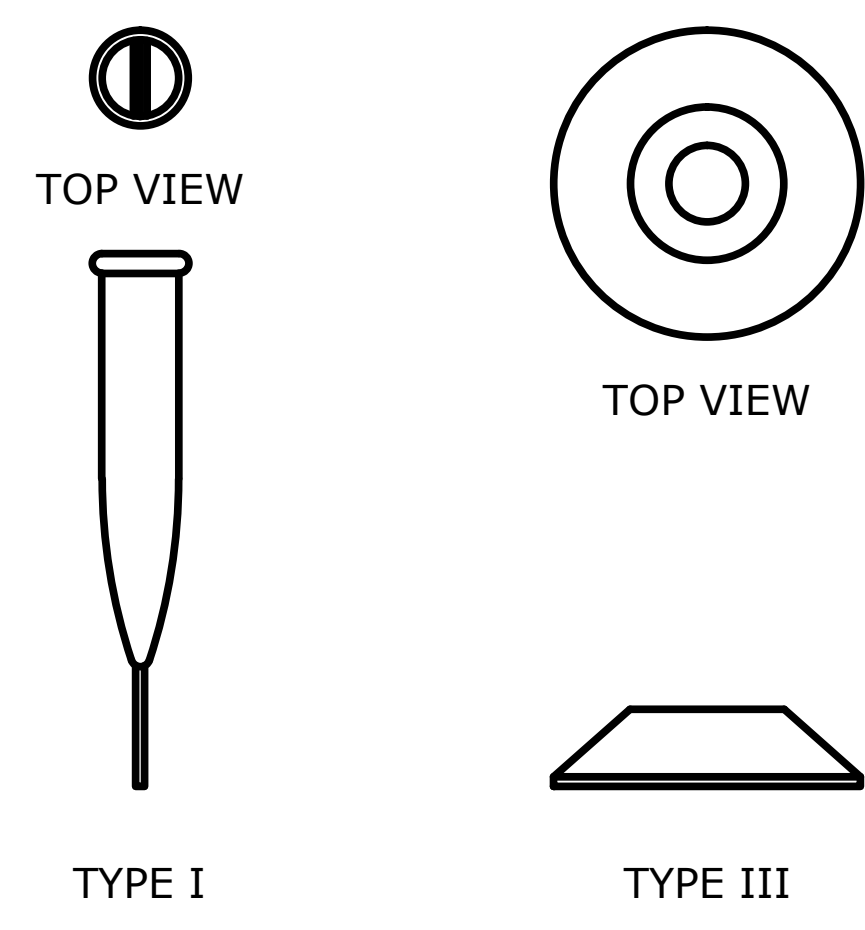


**FLAT SHEET DELINEATOR MOUNTING  
DETAILS FOR ATTACHING DELINEATORS TO STEEL DELINEATOR POSTS**



**PUNCHING DETAILS  
POST DIMENSIONS  
(ALL DIMENSIONS SHOWN ARE NOMINAL)**

**STEEL DELINEATOR POST DETAILS**



**ANCHORING DEVICES FOR FLEXIBLE DELINEATORS**

FLEXIBLE DELINEATOR POSTS AND ANCHORING DEVICES:  
THE TOTAL LENGTH OF THE FLEXIBLE POST SHALL BE DETERMINED BY THE CONTRACTOR, AS PER LOCATION AND ANCHORING DEVICE.  
  
REFLECTORIZATION:  
THE REFLECTORIZED AREA SHALL BE TYPE IV HIGH INTENSITY WHITE OR YELLOW RETROREFLECTIVE SHEETING. THE REFLECTORIZED AREA SHALL BE 3" MINIMUM IN WIDTH.

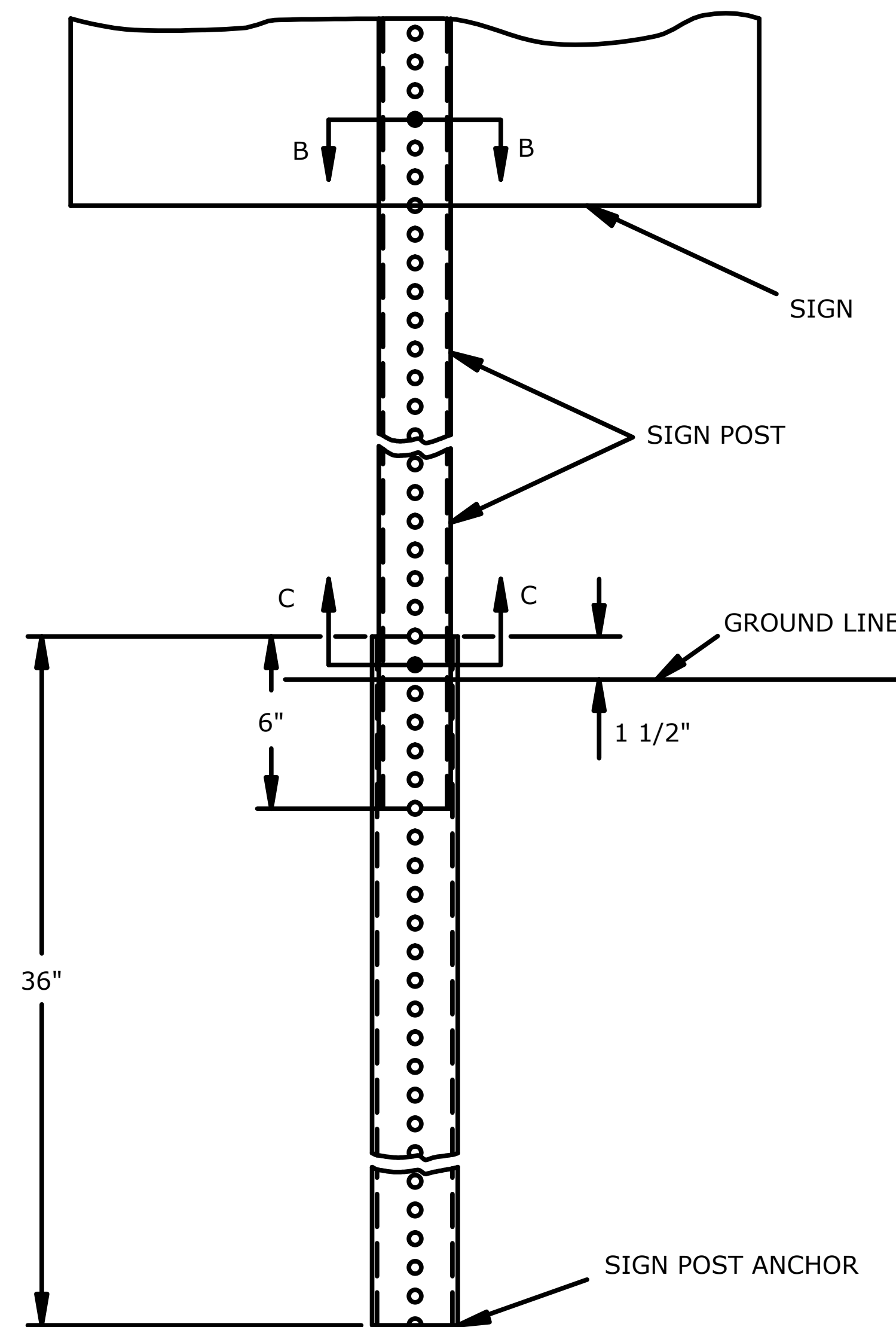
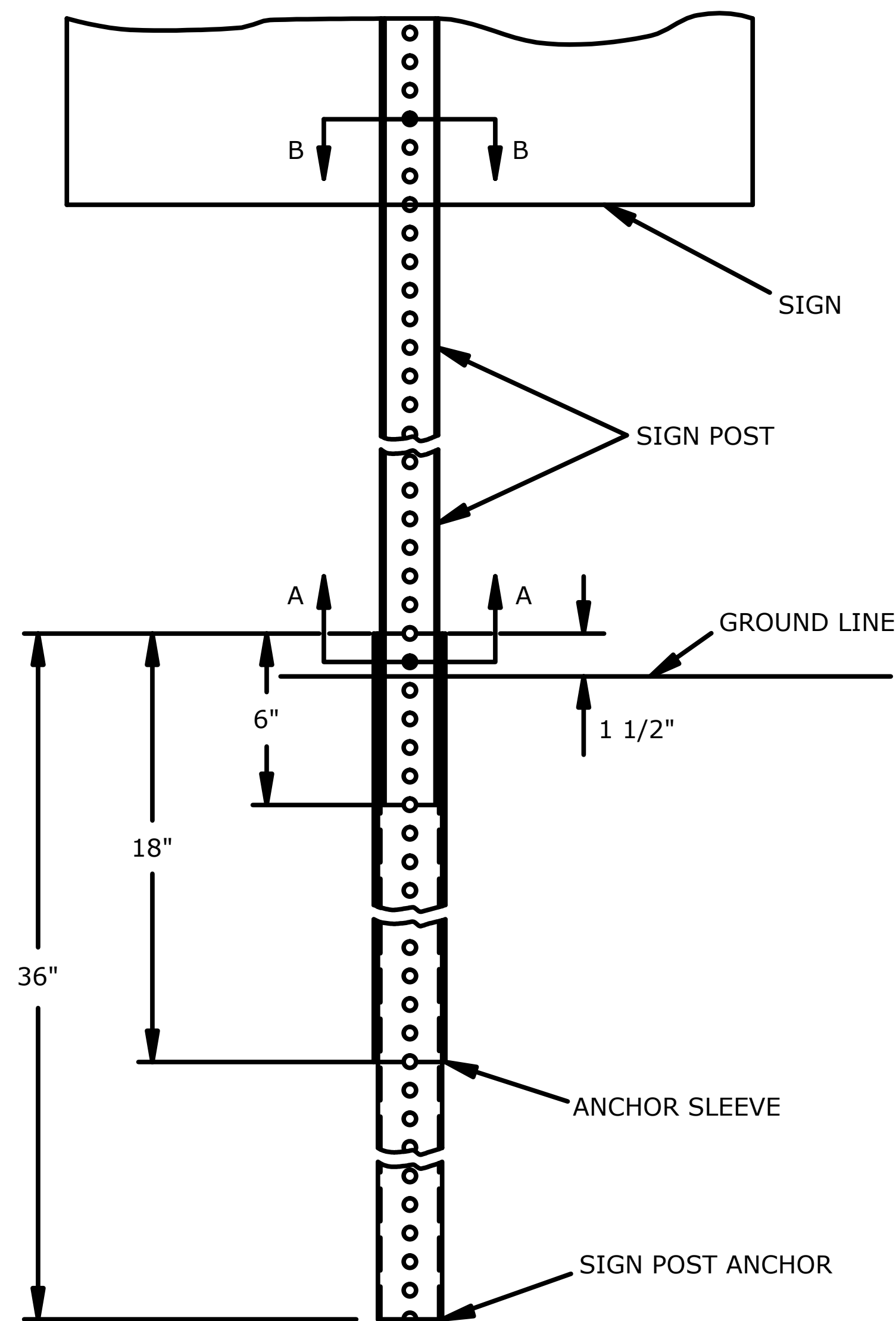
DELINEATION NOTE:  
SEE THE "DESIGN DETAILS FOR POSITIONING OF DELINEATORS" AND/OR PLAN SHEETS FOR THE DELINEATION SPACING, TYPE, AND COLOR.

|     |         |                       |        |       |
|-----|---------|-----------------------|--------|-------|
| 1   | 7/23/10 | Changed Sheeting Type | D.D.S. | D.S.  |
| NO. | DATE    | REVISIONS             | BY     | APP'D |

KANSAS DEPARTMENT OF TRANSPORTATION  
**DELINEATOR DESIGN DETAILS**  
STEEL POST MOUNT &  
FLEXIBLE POST MOUNT

TE412 7/1/03

DESIGNED BY: D.D.S. (D.D.S.) 7/23/10 (D.S.) Steve A. Smith  
CHECKED BY: D.D.S. (D.D.S.) 7/23/10 (D.S.) [Signature]  
DESIGNED BY: D.D.S. (D.D.S.) 7/23/10 (D.S.) [Signature]



### MATERIAL REQUIREMENTS

#### SIGN POSTS, POST ANCHORS, AND POST ANCHOR SLEEVES:

THE SIGN POSTS, POST ANCHORS, AND POST ANCHOR SLEEVES SHALL CONFORM TO (1) HOT ROLLED CARBON STEEL ASTM A-570 GRADE 33 OR ASTM STRUCTURAL QUALITY C 1021 WITH A HOT-DIPPED GALVANIZING CONFORMING TO AASHTO M-120 WITH AN INLINE SYSTEM FOLLOWED BY A CHROMATE CONVERSION AND A CROSS-LINKED POLYURETHANE ACRYLIC EXTERIOR COATING OR (2) A GALVANIZED FINISH COLD ROLLED CARBON STEEL ASTM A-446 GRADE A WITH A GALVANIZING CONFORMING TO ASTM A-525, DESIGNATION G-90.

THE SIGN POST SHALL HAVE 7/16" DIA. HOLES OR 7/16" DIA. EMBOSSED RING (DIE-CUT KNOCKOUTS) AT 1" CENTERS ON ALL FOUR SIDES FOR TOTAL LENGTH OF POST.

THE POST ANCHOR AND POST ANCHOR SLEEVE MAY BE FURNISHED WITHOUT THE BOLT HOLES ON ALL FOUR SIDES WITH THE EXCEPTION OF THE HOLES IMMEDIATELY ABOVE THE GROUND LINE.

ALL HOLES SHALL BE DRILLED OR PUNCHED AND ALL WELDS, CUTS, BURRS, AND SHARP EDGES ARE TO BE SMOOTHED OFF BEFORE APPLICATION OF FINISH.

#### FASTENING ACCESSORIES:

THE BOLTS, NUTS, AND WASHERS SHALL COMPLY WITH SUBSECTION 1614 OF THE STANDARD SPECIFICATIONS FOR STATE ROAD AND BRIDGE CONSTRUCTION (1990 EDITION).

THE BOLTS, NUTS, AND WASHERS SHALL BE BID SUBSIDIARY TO THE BID ITEM 'SQUARE STEEL POST'.

#### BASIS OF ACCEPTANCE:

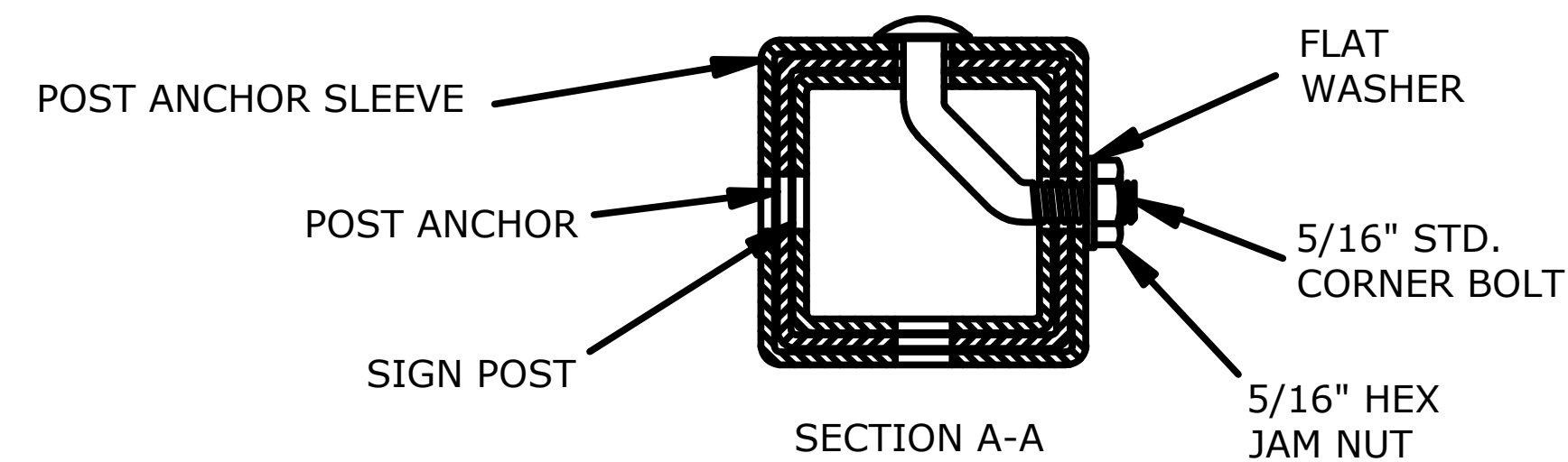
ACCEPTANCE OF THE STEEL POSTS, ANCHORS, SLEEVES, AND FASTENERS FURNISHED TO COMPLY WITH THE ABOVE REQUIREMENTS WILL BE BASED ON RECEIPT AND APPROVAL OF A TYPE D CERTIFICATION AS DESCRIBED IN SECTION 2600 OF THE STANDARD SPECIFICATIONS FOR STATE ROAD AND BRIDGE CONSTRUCTION (1990 EDITION) AND VISUAL INSPECTION FOR CONDITION AND DIMENSIONAL REQUIREMENTS.

### INSTALLATION SEQUENCE

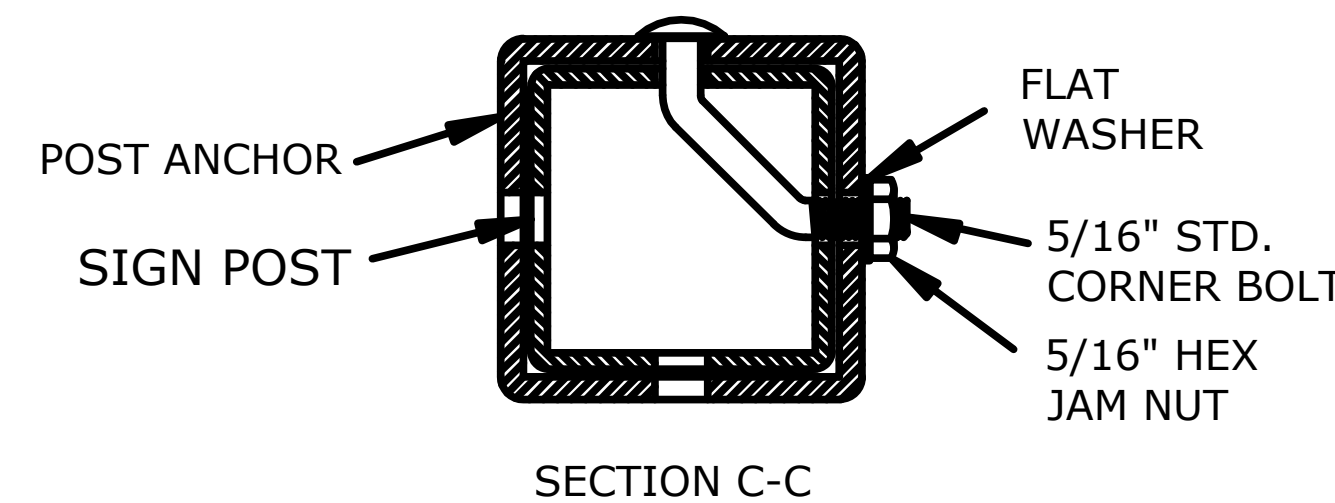
1. DRIVE POST ANCHOR INTO SUBGRADE.
2. DRIVE POST ANCHOR SLEEVE (IF REQUIRED) INTO SUBGRADE OVER THE POST ANCHOR.
3. INSTALL SIGN POST INTO THE POST ANCHOR.

#### NOTE:

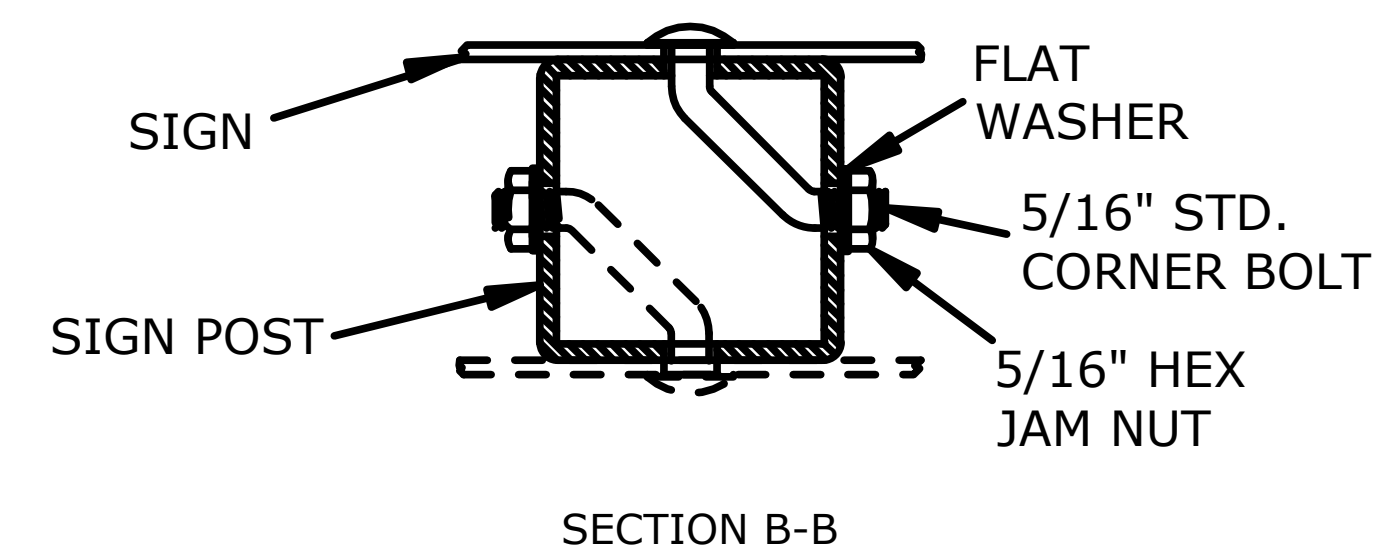
IN ALL INSTALLATIONS, THE FIRST HOLE ABOVE THE GROUND LINE ON THE SIGN POST, POST ANCHOR, AND POST ANCHOR SLEEVE (IF REQUIRED) MUST BE IN LINE FOR INSERTION OF THE CORNER BOLT.



DETAILS FOR 1 3/4", 2", OR 2 1/4" SIGN POST



DETAILS FOR 2 1/2" SIGN POST

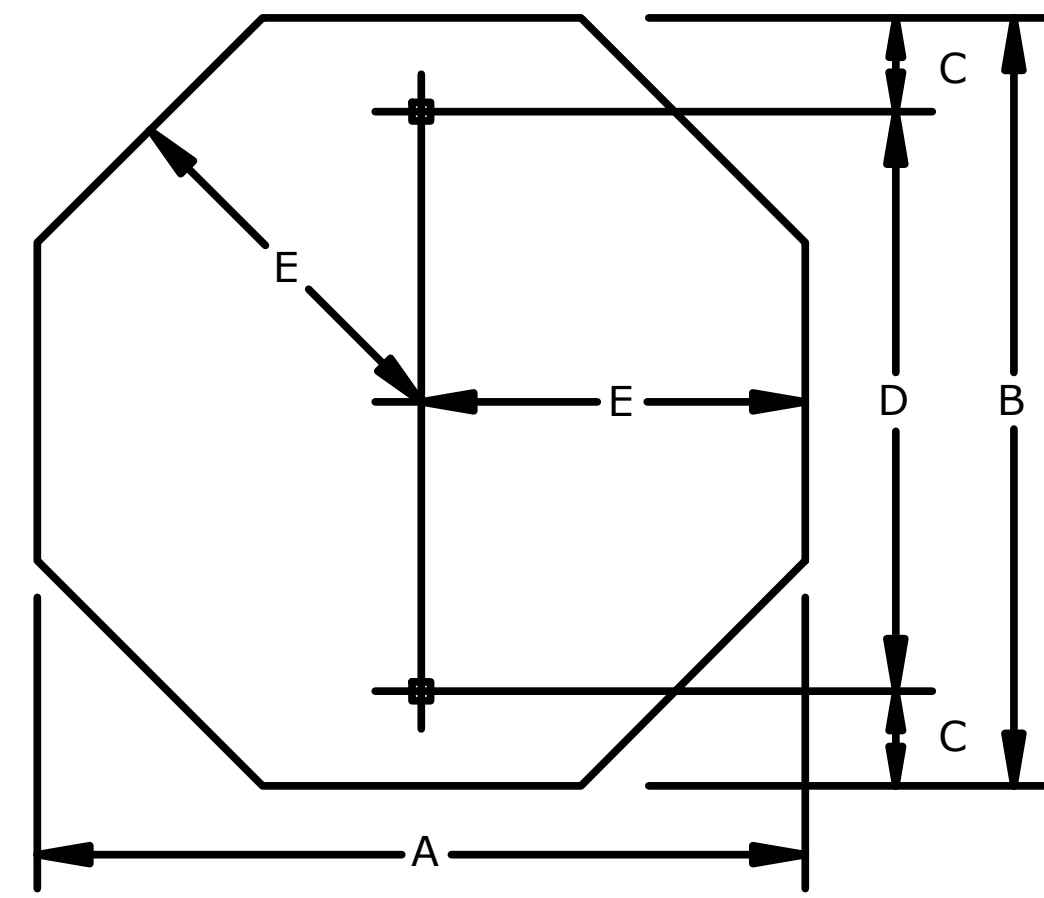


SECTION B-B

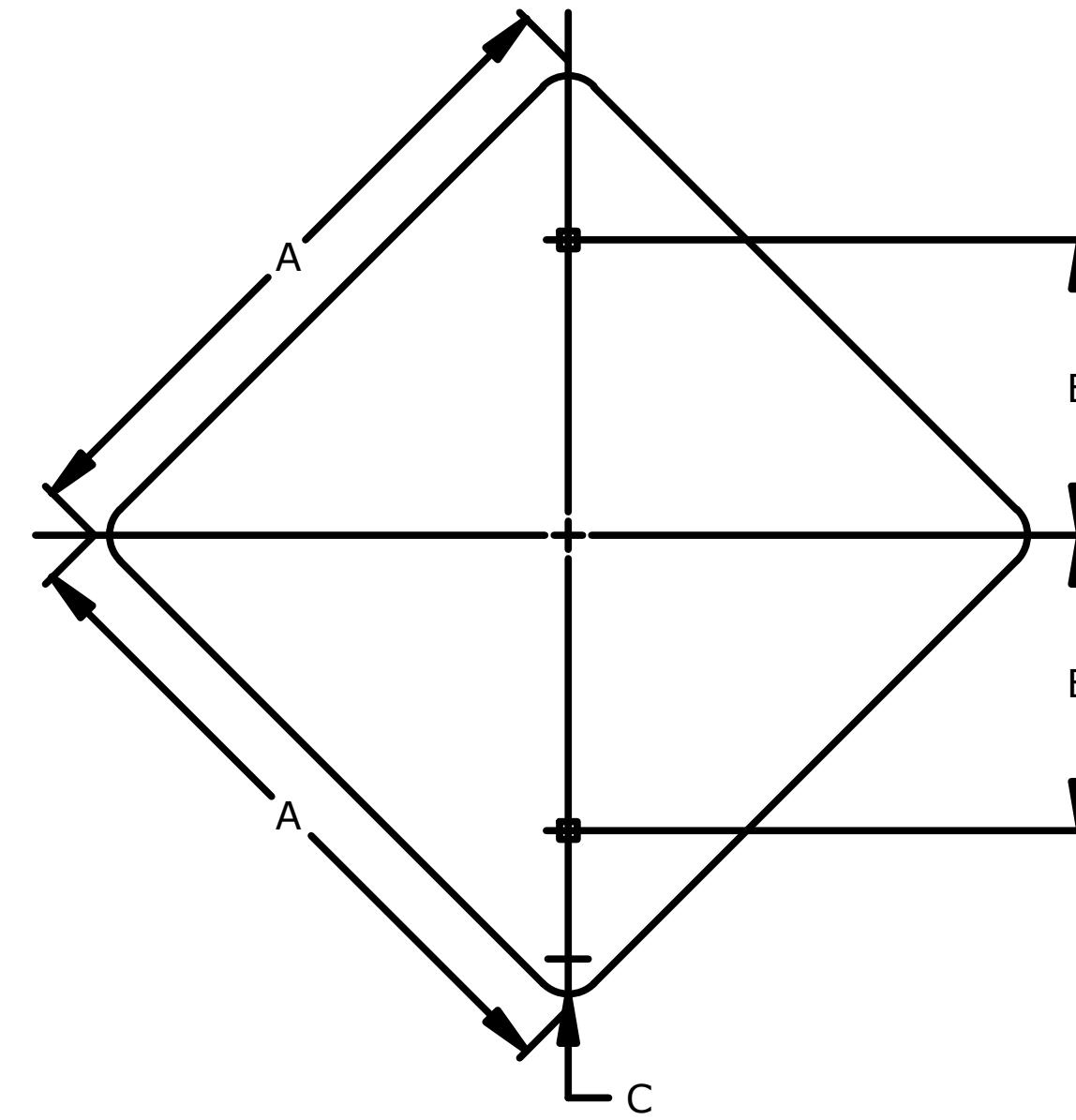
| SIGN POST<br>12 GA. OR 14 GA. | FOOTING                  |                          |
|-------------------------------|--------------------------|--------------------------|
|                               | POST ANCHOR              | POST ANCHOR SLEEVE       |
| 1 3/4" X 1 3/4"               | 2" X 2" X 12 GA.         | 2 1/4" X 2 1/4" X 12 GA. |
| 2" X 2"                       | 2 1/4" X 2 1/4" X 12 GA. | 2 1/2" X 2 1/2" X 12 GA. |
| 2 1/4" X 2 1/4"               | 2 1/2" X 2 1/2" X 12 GA. | 3" X 3" X 7 GA.          |
| 2 1/2" X 2 1/2"               | 3" X 3" X 7 GA.          | NOT REQUIRED             |

NOTE: 14 GA. POSTS MUST MEET A CERTIFIED MINIMUM YIELD STRENGTH OF 60,000 P.S.I.

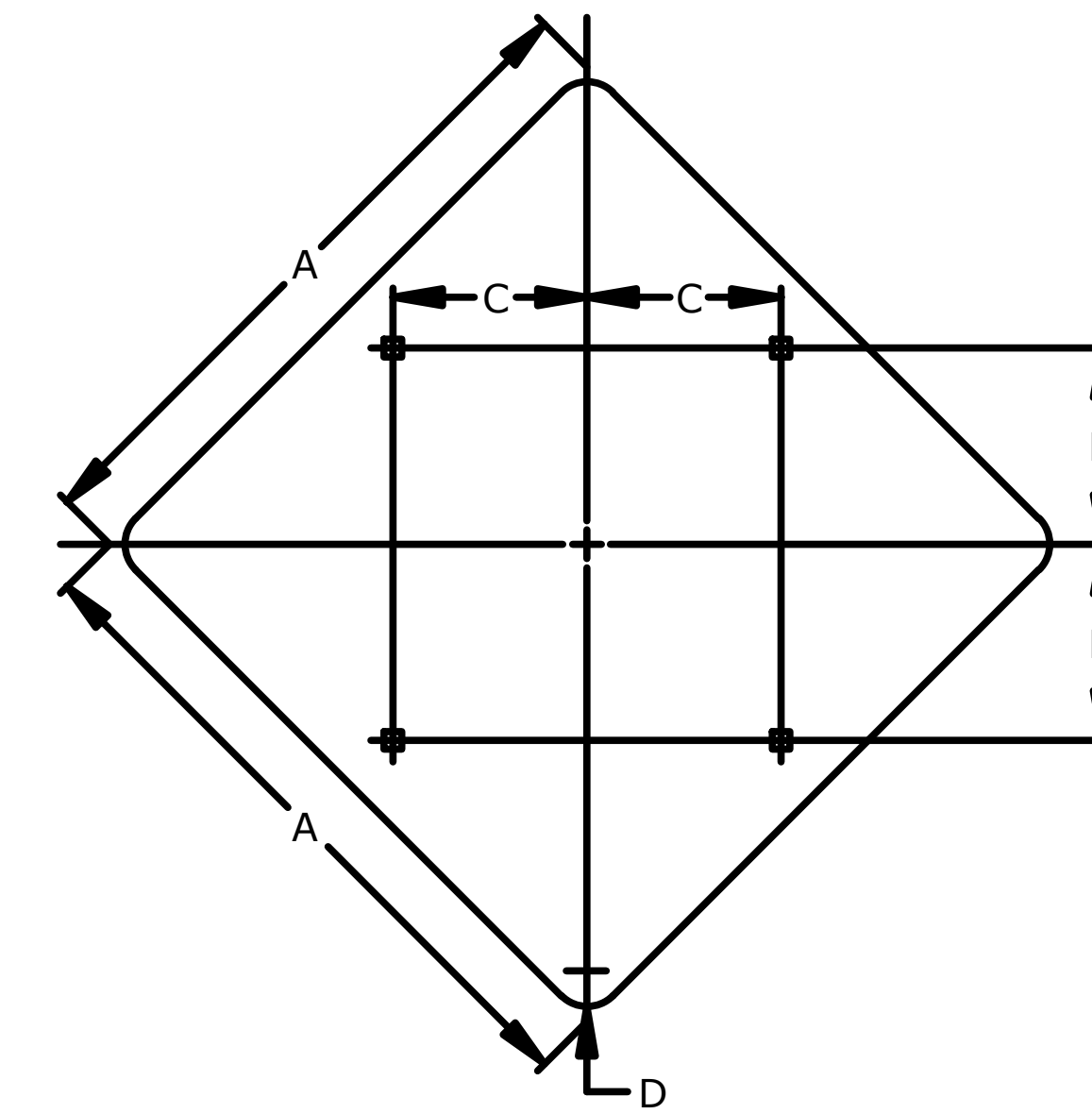
| NO.  | DATE          | REVISION         | BY | APPD   |
|--|---------------|------------------|----|--------|
| KANSAS DEPARTMENT OF TRANSPORTATION                                  |               |                  |    |        |
| <b>DETAILS FOR<br/>PERFORATED SQUARE STEEL<br/>TUBE POSTS (PSST)</b> |               |                  |    |        |
| TE466  |               | 7/1/03           |    | 7/1/03 |
| DESIGNED BY  | 7/2/2003/APPD | Shawn A. Buehler |    |        |
| CHECKED BY   | A.A. GUNTER   | TRUCK            |    |        |
| DESIGNED BY  | A.A. GUNTER   | TRUCK            |    |        |



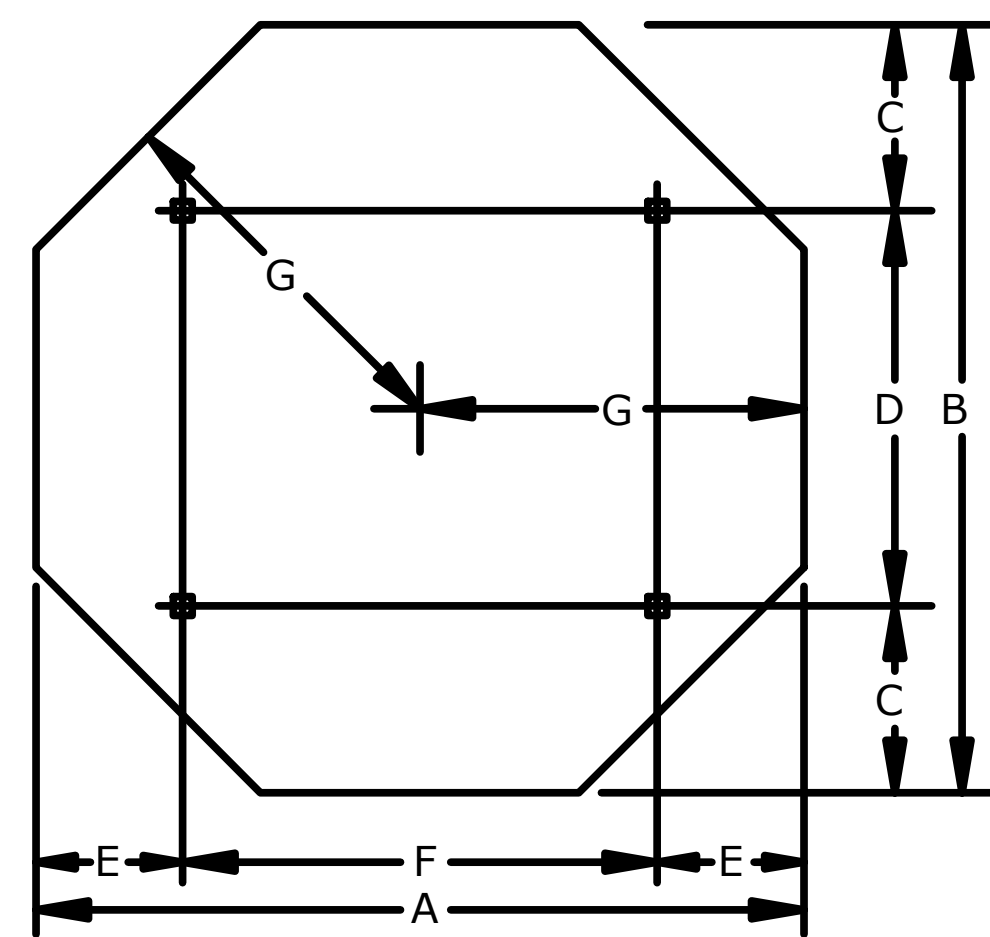
| SIGN SIZE | A  | B  | C | D  | E  | T     | AREA |
|-----------|----|----|---|----|----|-------|------|
| 30 X 30   | 30 | 30 | 3 | 24 | 15 | 0.080 | 5.18 |
| 36 X 36   | 36 | 36 | 6 | 24 | 18 | 0.080 | 7.46 |



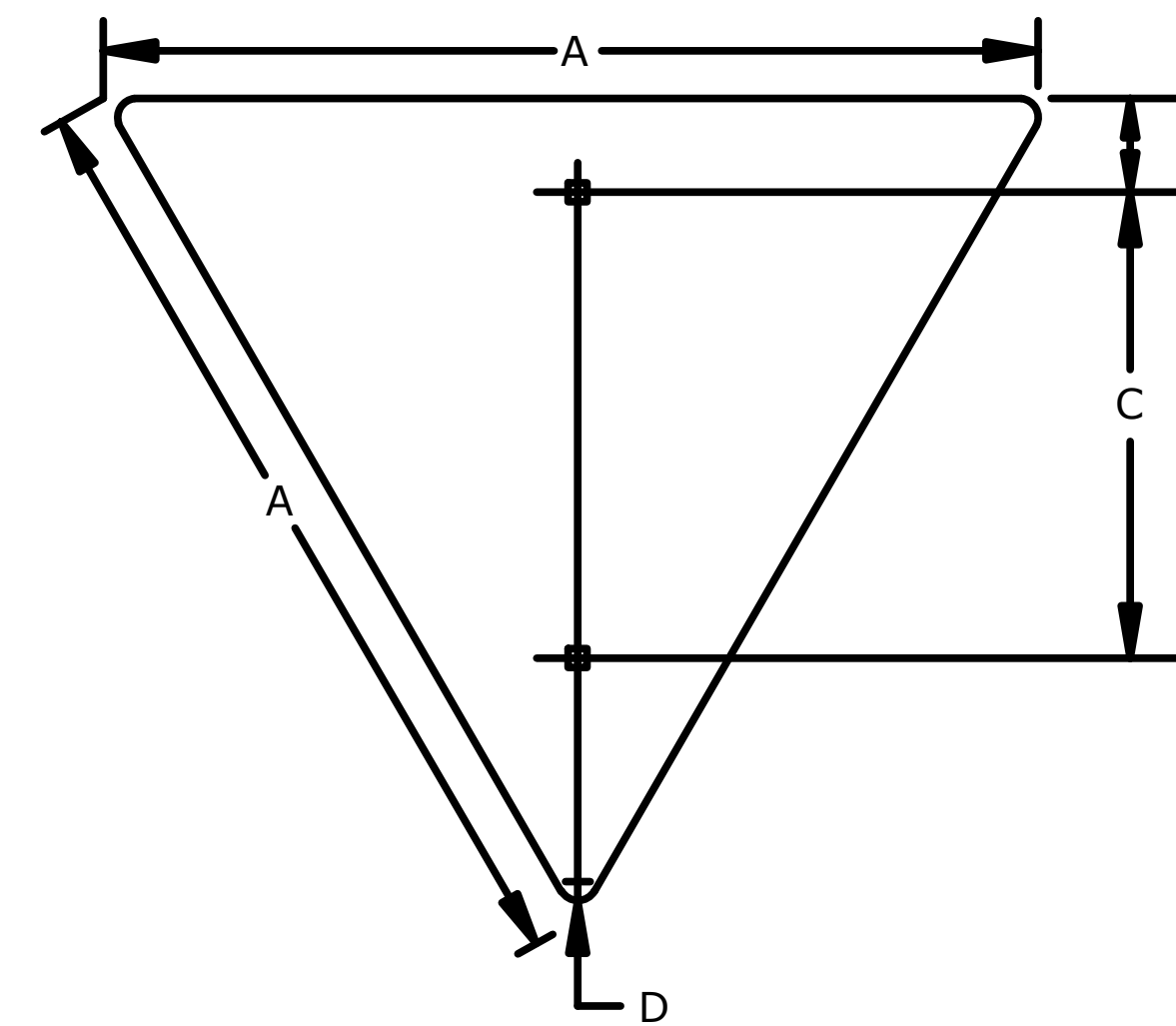
| SIGN SIZE | A  | B     | C     | T     | AREA |
|-----------|----|-------|-------|-------|------|
| ① 5 X 5   | 5  | 2 1/2 | 3/8   | 0.040 | 0.17 |
| 18 X 18   | 18 | 6     | 1 1/2 | 0.080 | 2.25 |
| 24 X 24   | 24 | 12    | 1 1/2 | 0.080 | 4.00 |
| 30 X 30   | 30 | 12    | 1 7/8 | 0.080 | 6.25 |
| ② 36 X 36 | 36 | 18    | 2 1/4 | 0.080 | 9.00 |



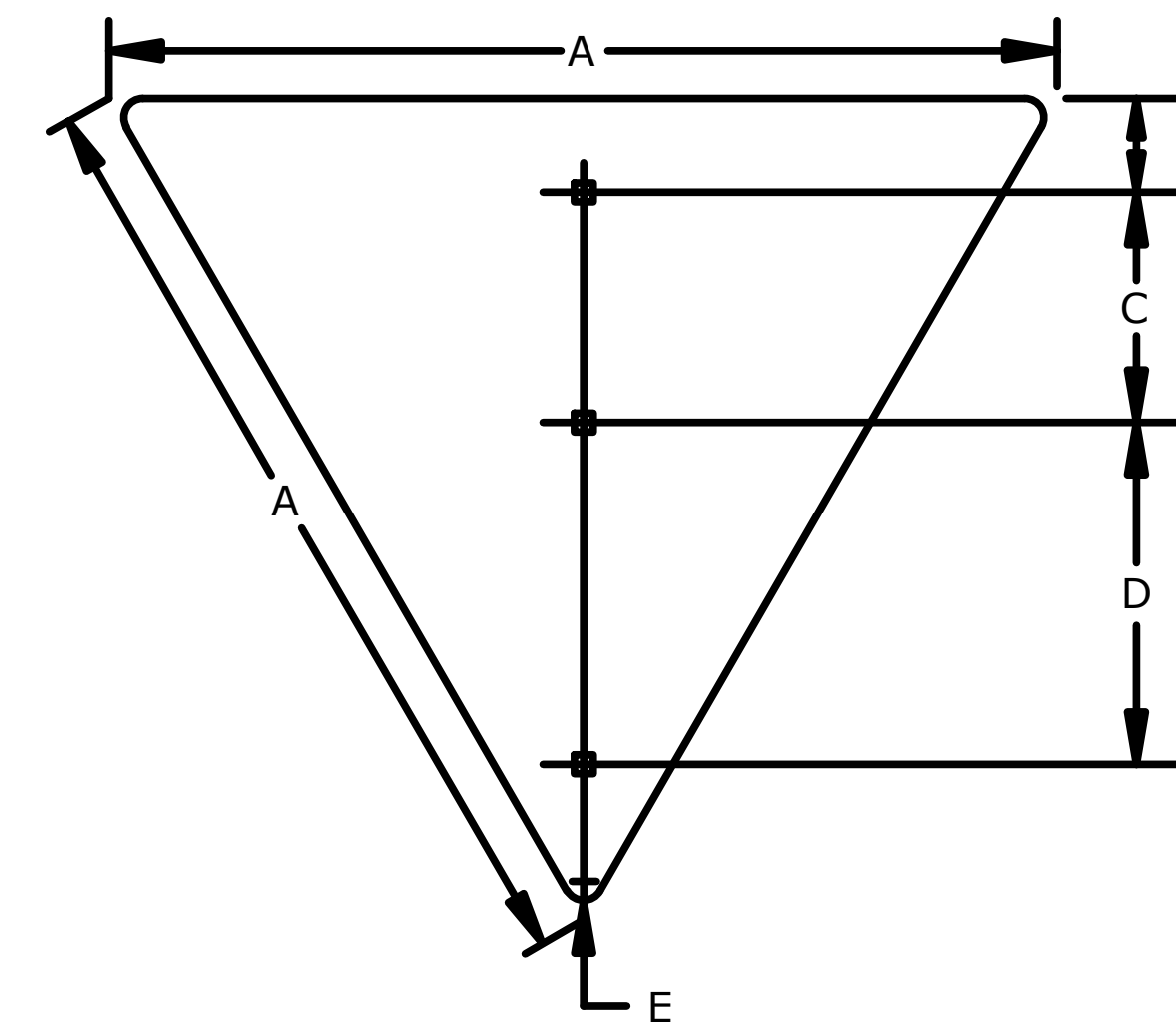
| SIGN SIZE | A  | B  | C  | D | T     | AREA  |
|-----------|----|----|----|---|-------|-------|
| 48 X 48   | 48 | 12 | 15 | 3 | 2 1/2 | 16.00 |



| SIGN SIZE | A  | B  | C  | D  | E | F  | G  | T     | AREA  |
|-----------|----|----|----|----|---|----|----|-------|-------|
| 48 X 48   | 48 | 48 | 12 | 24 | 9 | 30 | 24 | 2 1/2 | 13.25 |



| SIGN SIZE | A  | B | C  | D | T     | AREA |
|-----------|----|---|----|---|-------|------|
| 36 X 36   | 36 | 3 | 18 | 2 | 0.080 | 3.90 |



| SIGN SIZE | A  | B | C  | D  | E | T     | AREA  |
|-----------|----|---|----|----|---|-------|-------|
| 48 X 48   | 48 | 3 | 12 | 18 | 3 | 0.080 | 6.93  |
| 60 X 60   | 60 | 3 | 18 | 18 | 4 | 0.100 | 10.83 |

NOTE:  
ALL HOLES ARE 3/8" SQUARE UNLESS OTHERWISE NOTED.

THE DIMENSION "T" IS THE THICKNESS OF THE ALUMINUM BLANK.

ALL DIMENSIONS ARE IN INCHES.

- ① HOLES SHALL BE 5/16" DIAMETER.
- ② CENTER HOLE IS REQUIRED.

ALL DIMENSIONS ARE IN INCHES.

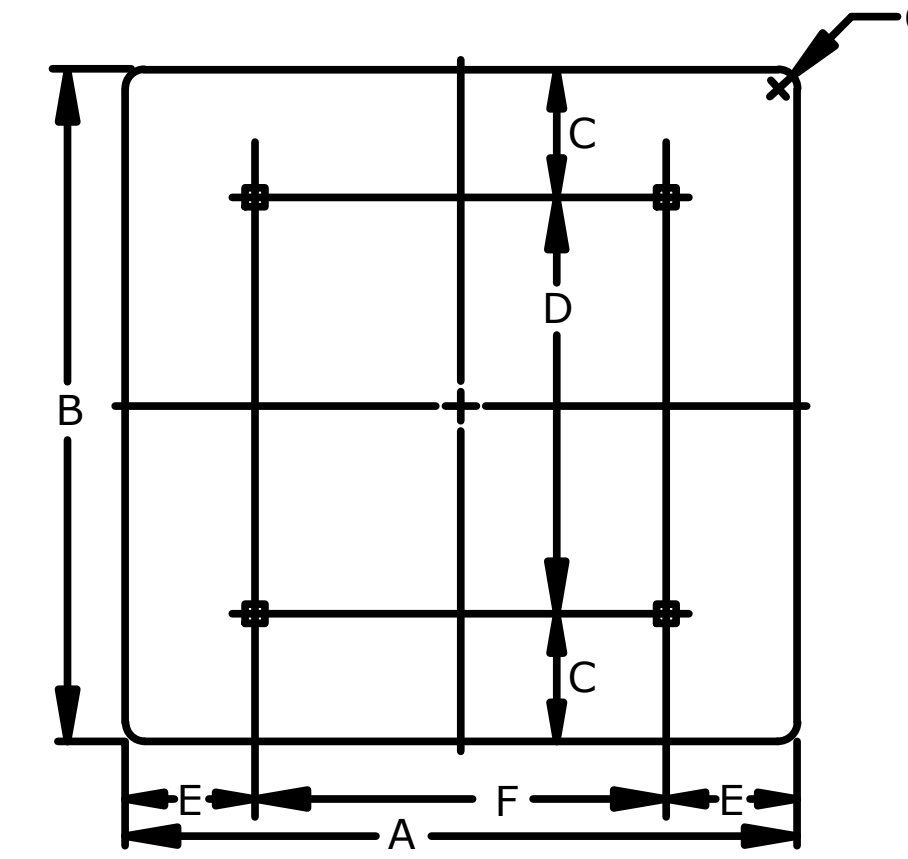
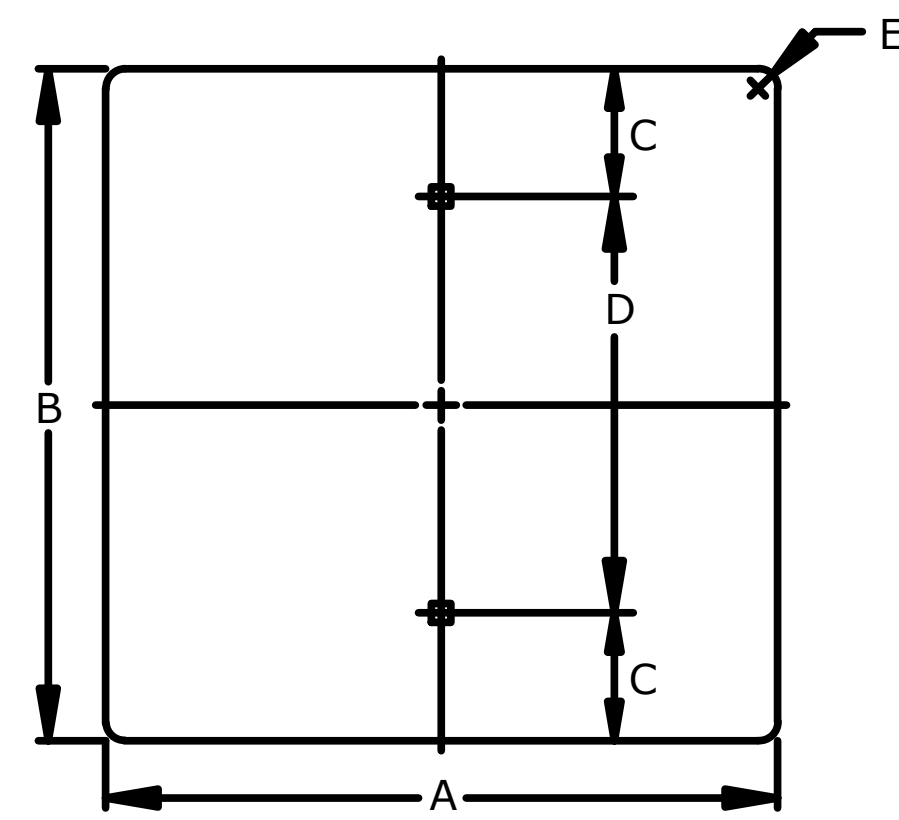
| NO. | DATE | REVISIONS | BY | APP'D |
|-----|------|-----------|----|-------|
|     |      |           |    |       |

KANSAS DEPARTMENT OF TRANSPORTATION

SIGN BLANK DETAILS FOR  
FLAT SHEET SIGNS

TE503 7/1/03

DESIGNER: [Signature] DATE: 7/22/2003  
 CHECKED: [Signature] DATE: [Signature]  
 DRAWN BY: [Signature] DATE: [Signature]



| SIGN SIZE | A  | B  | C     | D  | E     | T     | AREA |
|-----------|----|----|-------|----|-------|-------|------|
| 3 X 8     | 3  | 8  | 1     | 6  | 3/8   | 0.040 | 0.17 |
| 6 X 12    | 6  | 12 | 3     | 6  | 3/8   | 0.040 | 0.50 |
| 12 X 6    | 12 | 6  | 1 1/2 | 3  | 3/8   | 0.063 | 0.50 |
| 12 X 18   | 12 | 18 | 3     | 12 | 1 1/2 | 0.063 | 1.50 |
| 12 X 24   | 12 | 24 | 3     | 18 | 1 1/2 | 0.080 | 2.00 |
| 12 X 36   | 12 | 36 | 6     | 24 | 1 1/2 | 0.080 | 3.00 |
| 12 X 48   | 12 | 48 | 6     | 36 | 1 1/2 | 0.080 | 4.00 |
| 15 X 15   | 15 | 15 | 1 1/2 | 12 | 1 1/2 | 0.063 | 1.56 |
| 18 X 6    | 18 | 6  | 1 1/2 | 3  | 1 1/2 | 0.063 | 0.75 |
| 18 X 12   | 18 | 12 | 3     | 6  | 1 1/2 | 0.063 | 1.50 |
| 18 X 18   | 18 | 18 | 3     | 12 | 1 1/2 | 0.063 | 2.25 |
| 18 X 24   | 18 | 24 | 3     | 18 | 1 1/2 | 0.080 | 3.00 |
| 21 X 15   | 21 | 15 | 1 1/2 | 12 | 1 1/2 | 0.080 | 2.19 |
| 24 X 6    | 24 | 6  | 1 1/2 | 3  | 1 1/2 | 0.080 | 1.00 |
| 24 X 12   | 24 | 12 | 3     | 6  | 1 1/2 | 0.080 | 2.00 |
| 24 X 18   | 24 | 18 | 3     | 12 | 1 1/2 | 0.080 | 3.00 |
| 24 X 24   | 24 | 24 | 3     | 18 | 1 1/2 | 0.080 | 4.00 |
| 24 X 30   | 24 | 30 | 3     | 24 | 1 1/2 | 0.080 | 5.00 |
| 24 X 36   | 24 | 36 | 6     | 24 | 1 1/2 | 0.080 | 6.00 |
| 30 X 15   | 30 | 15 | 1 1/2 | 12 | 1 1/2 | 0.080 | 3.13 |
| 30 X 18   | 30 | 18 | 3     | 12 | 1 1/2 | 0.080 | 3.75 |
| 30 X 24   | 30 | 24 | 3     | 18 | 1 1/2 | 0.080 | 5.00 |
| 30 X 30   | 30 | 30 | 3     | 24 | 1 1/2 | 0.080 | 6.25 |
| 30 X 36   | 30 | 36 | 6     | 24 | 1 1/2 | 0.080 | 7.50 |
| 36 X 12   | 36 | 12 | 3     | 6  | 1 1/2 | 0.080 | 3.00 |
| 36 X 18   | 36 | 18 | 3     | 12 | 1 1/2 | 0.080 | 4.50 |
| 36 X 24   | 36 | 24 | 3     | 18 | 1 1/2 | 0.080 | 6.00 |
| 36 X 30   | 36 | 30 | 3     | 24 | 1 1/2 | 0.080 | 7.50 |
| 36 X 36   | 36 | 36 | 6     | 24 | 2     | 0.080 | 9.00 |

| SIGN SIZE | A  | B  | C  | D  | E  | F  | G     | T     | AREA  |
|-----------|----|----|----|----|----|----|-------|-------|-------|
| 36 X 12   | 36 | 12 | 3  | 6  | 6  | 24 | 1 1/2 | 0.080 | 3.00  |
| 36 X 18   | 36 | 18 | 6  | 12 | 6  | 30 | 1 1/2 | 0.080 | 4.50  |
| 36 X 24   | 36 | 24 | 6  | 12 | 6  | 24 | 1 1/2 | 0.080 | 6.00  |
| 36 X 30   | 36 | 30 | 6  | 18 | 6  | 30 | 1 1/2 | 0.080 | 7.50  |
| 36 X 36   | 36 | 36 | 6  | 24 | 6  | 24 | 1 1/2 | 0.080 | 9.00  |
| 36 X 42   | 36 | 42 | 6  | 30 | 6  | 30 | 1 1/2 | 0.080 | 10.50 |
| 48 X 12   | 48 | 12 | 3  | 6  | 9  | 30 | 1 1/2 | 0.080 | 4.00  |
| 48 X 18   | 48 | 18 | 3  | 12 | 9  | 30 | 1 1/2 | 0.080 | 6.00  |
| 48 X 24   | 48 | 24 | 6  | 12 | 9  | 30 | 2     | 0.080 | 8.00  |
| 48 X 30   | 48 | 30 | 6  | 18 | 9  | 30 | 0     | 0.100 | 10.00 |
| 48 X 36   | 48 | 36 | 6  | 24 | 9  | 30 | 0     | 0.100 | 12.00 |
| 48 X 42   | 48 | 42 | 6  | 30 | 9  | 30 | 0     | 0.100 | 14.00 |
| 48 X 48   | 48 | 48 | 9  | 30 | 9  | 30 | 0     | 0.100 | 16.00 |
| 48 X 72   | 48 | 72 | 15 | 42 | 9  | 30 | 0     | 0.100 | 24.00 |
| 48 X 96   | 48 | 96 | 21 | 54 | 9  | 30 | 0     | 0.100 | 32.00 |
| 54 X 36   | 54 | 36 | 6  | 30 | 12 | 30 | 0     | 0.100 | 13.50 |
| 54 X 42   | 54 | 42 | 6  | 30 | 12 | 30 | 0     | 0.100 | 15.75 |
| 60 X 12   | 60 | 12 | 3  | 6  | 12 | 36 | 0     | 0.100 | 5.00  |
| 60 X 18   | 60 | 18 | 3  | 12 | 12 | 36 | 0     | 0.100 | 7.50  |

| SIGN SIZE | A  | B  | C  | D  | E  | F  | G | T     | AREA  |
|-----------|----|----|----|----|----|----|---|-------|-------|
| 60 X 24   | 60 | 24 | 6  | 12 | 12 | 36 | 0 | 0.100 | 10.00 |
| 60 X 30   | 60 | 30 | 6  | 18 | 12 | 36 | 0 | 0.100 | 12.50 |
| 60 X 36   | 60 | 36 | 6  | 24 | 12 | 36 | 0 | 0.100 | 15.00 |
| 60 X 42   | 60 | 42 | 6  | 30 | 12 | 36 | 0 | 0.100 | 17.50 |
| 60 X 48   | 60 | 48 | 9  | 30 | 12 | 36 | 0 | 0.100 | 20.00 |
| 60 X 60   | 60 | 60 | 12 | 36 | 12 | 36 | 0 | 0.100 | 25.00 |
| 72 X 12   | 72 | 12 | 3  | 6  | 15 | 42 | 0 | 0.100 | 6.00  |
| 72 X 18   | 72 | 18 | 3  | 12 | 15 | 42 | 0 | 0.100 | 9.00  |
| 72 X 24   | 72 | 24 | 6  | 12 | 15 | 42 | 0 | 0.100 | 12.00 |
| 72 X 30   | 72 | 30 | 6  | 18 | 15 | 36 | 0 | 0.100 | 15.00 |
| 72 X 36   | 72 | 36 | 6  | 24 | 15 | 42 | 0 | 0.100 | 18.00 |
| 72 X 42   | 72 | 42 | 6  | 30 | 15 | 42 | 0 | 0.100 | 21.00 |
| 72 X 48   | 72 | 48 | 9  | 30 | 15 | 42 | 0 | 0.100 | 24.00 |
| 84 X 18   | 84 | 18 | 6  | 12 | 15 | 48 | 0 | 0.100 | 10.50 |
| 84 X 30   | 84 | 30 | 6  | 18 | 18 | 48 | 0 | 0.100 | 17.50 |
| 84 X 36   | 84 | 36 | 6  | 24 | 18 | 48 | 0 | 0.100 | 21.00 |
| 84 X 42   | 84 | 42 | 6  | 30 | 18 | 48 | 0 | 0.100 | 24.50 |
| 84 X 48   | 84 | 48 | 9  | 30 | 18 | 48 | 0 | 0.100 | 28.00 |

NOTE:  
ALL HOLES ARE 3/8 " SQUARE, UNLESS OTHERWISE NOTED.

THE DIMENSION "T" IS THE THICKNESS OF THE ALUMINUM BLANK.

- ① HOLES SHALL BE 5/16 " DIAMETER.
- ② DIMENSION "D" REQUIRES A CENTER HOLE.

ALL DIMENSIONS ARE IN INCHES.

| NO. | DATE | REVISION | BY | APP'D |
|-----|------|----------|----|-------|
|     |      |          |    |       |

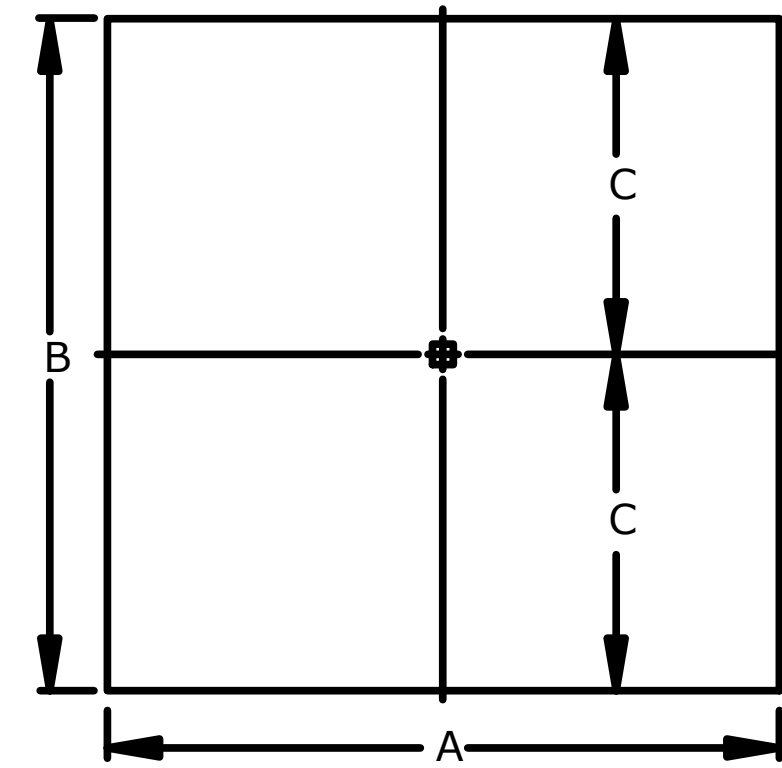
KANSAS DEPARTMENT OF TRANSPORTATION

SIGN BLANK DETAILS FOR  
FLAT SHEET SIGNS

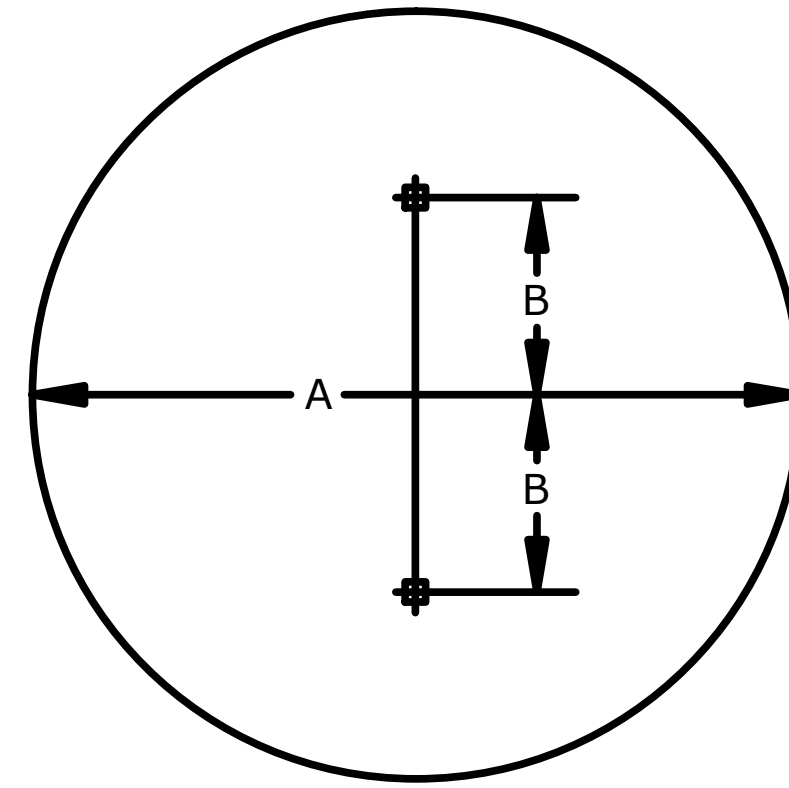
TE506 7/1/03

DESIGNED BY: [ ] CHECKED BY: [ ] DRAWN BY: [ ]

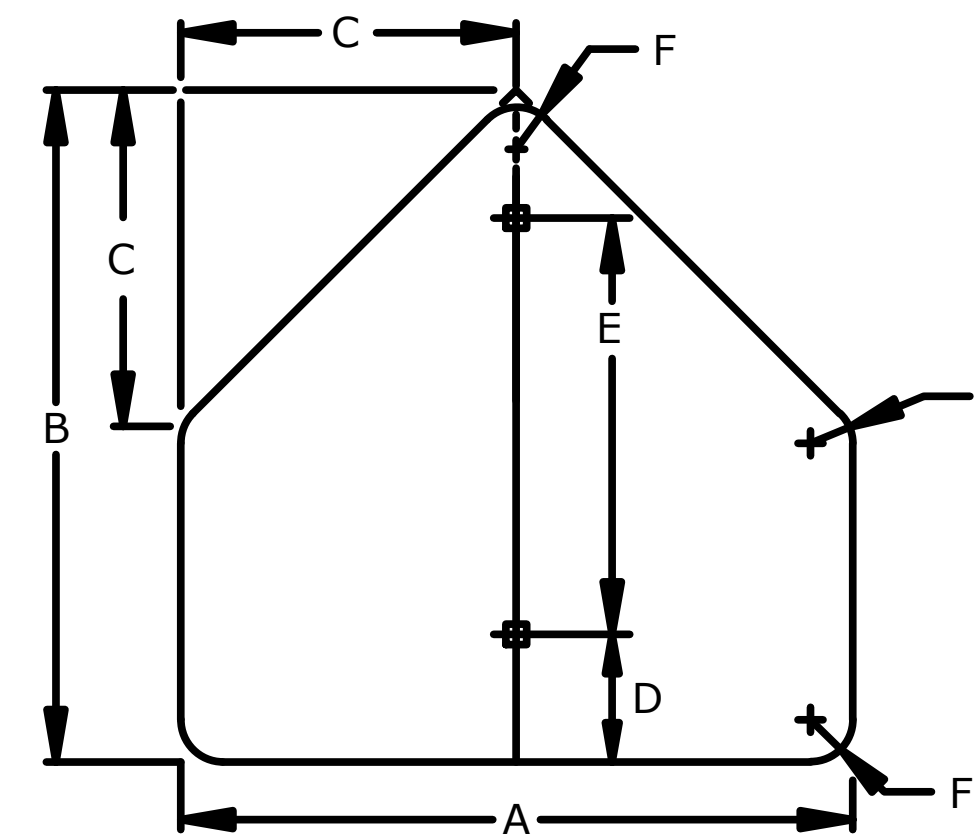
DATE: [ ] SCALE: [ ]



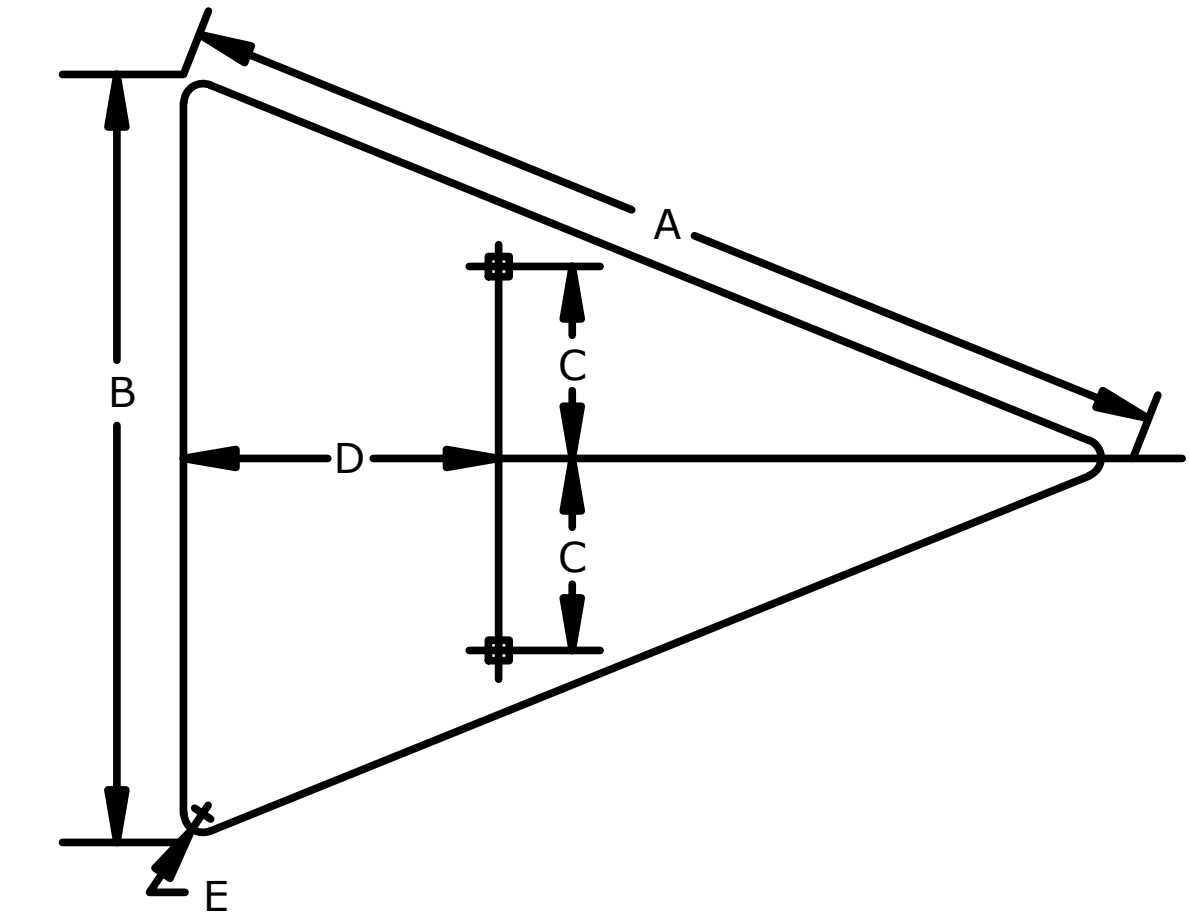
| SIGN SIZE | A | B | C | T     | AREA |
|-----------|---|---|---|-------|------|
| 6 X 6     | 6 | 6 | 3 | 0.063 | 0.25 |



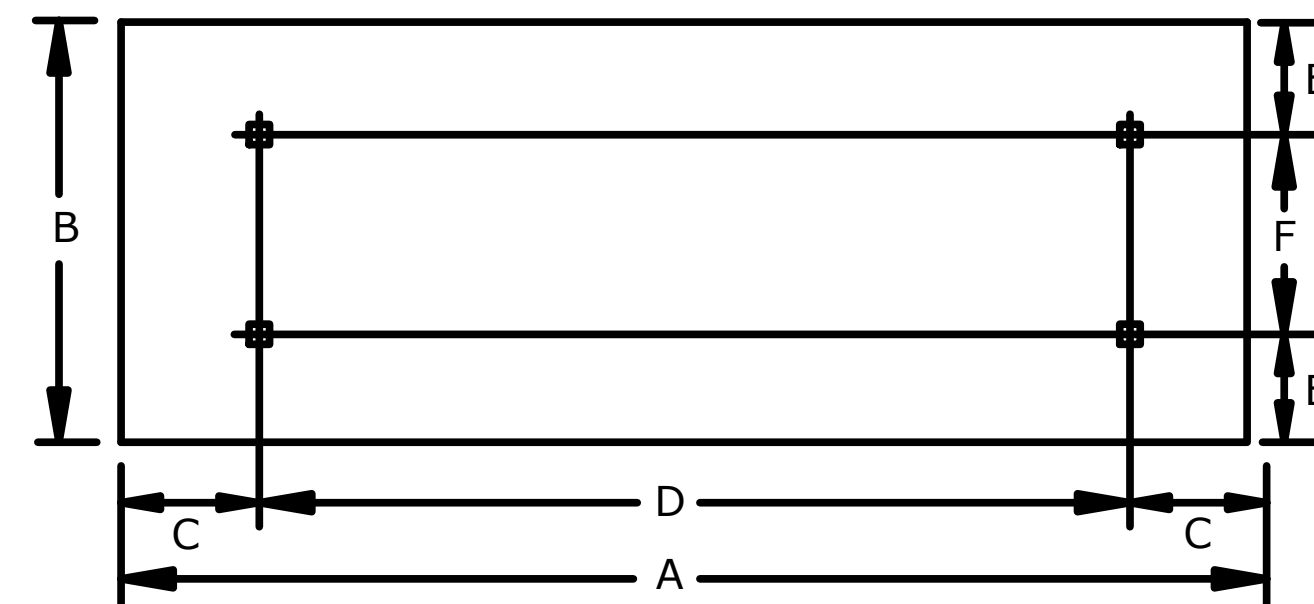
| SIGN SIZE | A  | B  | T     | AREA |
|-----------|----|----|-------|------|
| 36 DIA    | 36 | 12 | 0.080 | 7.07 |



| SIGN SIZE | A  | B  | C  | D | E  | F     | T     | AREA |
|-----------|----|----|----|---|----|-------|-------|------|
| 30 X 30   | 30 | 30 | 15 | 3 | 24 | 48    | 0.080 | 4.69 |
| 36 X 36   | 36 | 36 | 18 | 6 | 24 | 2 1/4 | 0.080 | 6.75 |

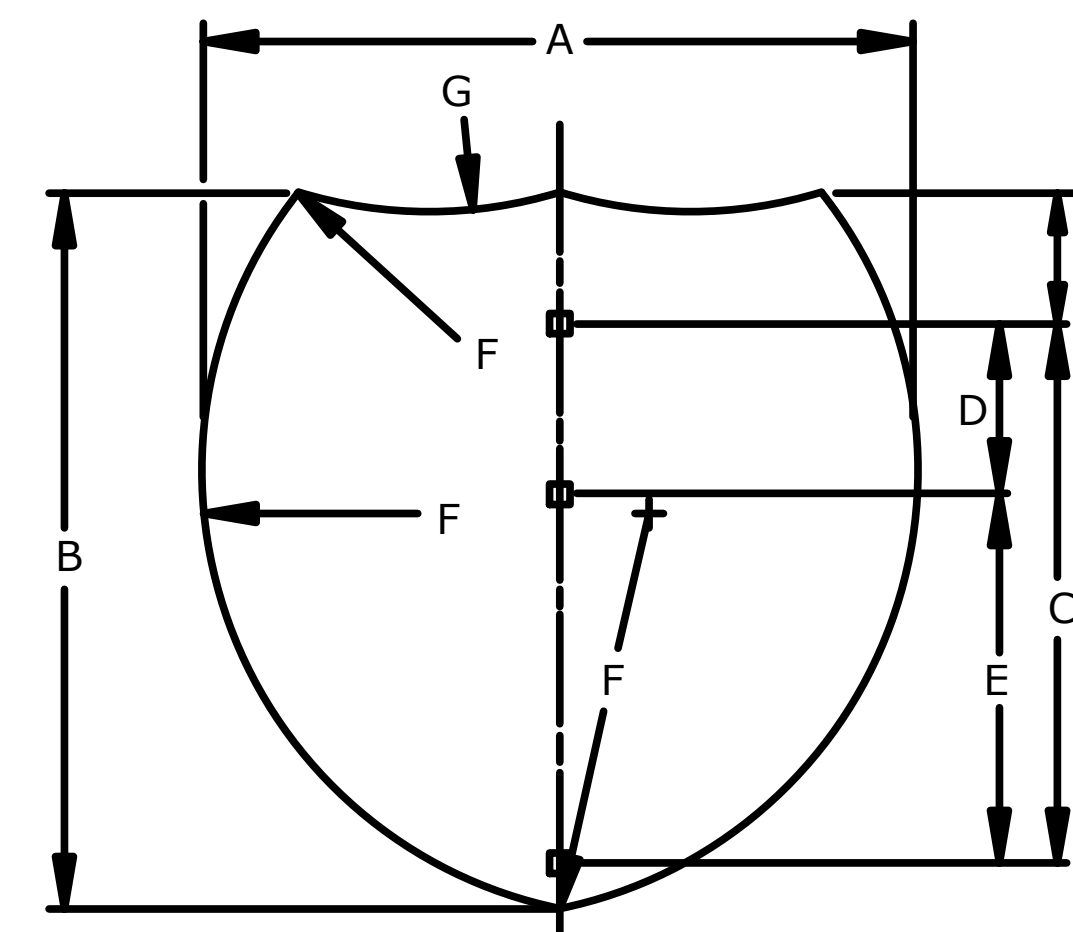


| SIGN SIZE | A  | B  | C | D      | E     | T     | AREA |
|-----------|----|----|---|--------|-------|-------|------|
| 48 X 36   | 48 | 36 | 9 | 14 3/4 | 2 1/4 | 0.125 | 5.56 |



| SIGN SIZE | A   | B  | C | D*                    | E | F  | T     | AREA  |
|-----------|-----|----|---|-----------------------|---|----|-------|-------|
| 102 X 18  | 102 | 18 | 3 | 13 HOLES @ 8" SPACING | 3 | 12 | 0.100 | 12.75 |

\* 3/8" DIA. HOLES



INDEPENDENT USE

| DIMENSIONS |    |    |    |    |    |      |      |   |       |      |
|------------|----|----|----|----|----|------|------|---|-------|------|
| SIZE       | A  | B  | C  | D  | E  | F    | G    | H | T     | AREA |
| 24 X 24    | 24 | 24 | 18 | -  | -  | 15   | 15   | 3 | 0.080 | 3.20 |
| 36 X 36    | 36 | 36 | 30 | 12 | 18 | 22.5 | 22.5 | 3 | 0.080 | 7.20 |
| 30 X 24    | 30 | 24 | 18 | -  | -  | 17   | 24   | 3 | 0.080 | 3.99 |
| 45 X 36    | 45 | 36 | 30 | 12 | 18 | 25.5 | 36   | 3 | 0.100 | 8.99 |

NOTES:  
ALL HOLES ARE 3/8" SQUARE, UNLESS OTHERWISE NOTED.  
THE DIMENSION "T" IS THE THICKNESS OF THE ALUMINUM BLANK.

ALL DIMENSIONS ARE IN INCHES.

|  |                 |        |       |
|--|-----------------|--------|-------|
| KANSAS DEPARTMENT OF TRANSPORTATION        |                 |        |       |
| SIGN BLANK DETAILS FOR<br>FLAT SHEET SIGNS |                 |        |       |
| TE509                                      |                 | 7/1/03 |       |
| DESIGNED BY                                | DWG. CHECKED BY | DATE   | SCALE |
| APPROVED BY                                | DATE            | BY     | APP'D |



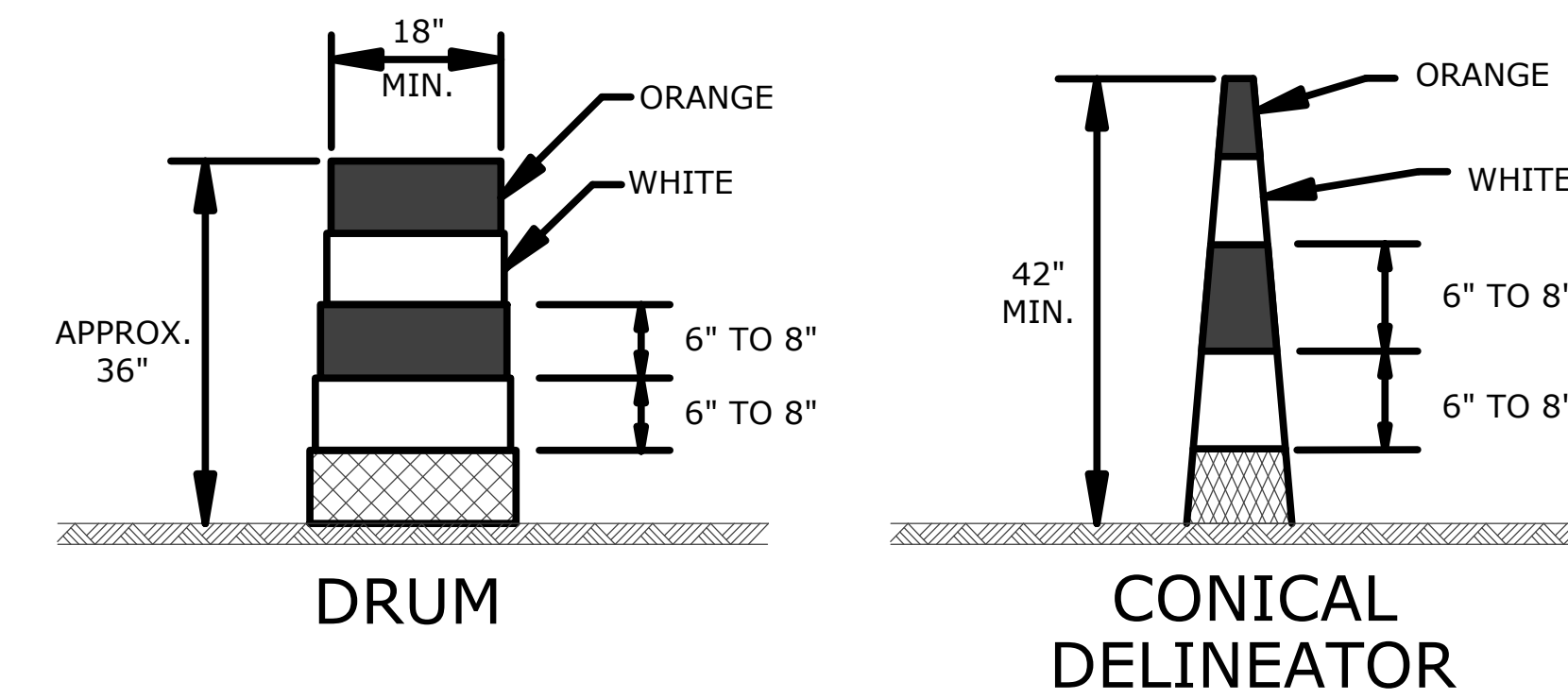
TAPER FORMULAS:  $L = WS$  FOR SPEEDS OF 45 MPH OR MORE  $L = WS / 60$  FOR SPEEDS OF 40 MPH OR LESS WHERE: L = MINIMUM LENGTH OF TAPER IN FEET S = NUMERICAL VALUE OF POSTED SPEED PRIOR TO WORK STARTING IN MPH W = WIDTH OF OFFSET IN FEET<sup>2</sup>

CHANNELIZER PLACEMENT:

- (A) THE SPACING BETWEEN DEVICES IN TRANSITION AREA (TAPER) SHOULD NOT EXCEED A DISTANCE IN FEET EQUAL TO 1/2 THE POSTED SPEED LIMIT IN MPH PRIOR TO WORK STARTING.
- (B) THE SPACING BETWEEN DEVICES IN THE ADVANCED WARNING AREA AND THE ACTIVITY AREA SHOULD NOT EXCEED A DISTANCE IN FEET EQUAL TO TWO TIMES THE POSTED SPEED LIMIT IN MPH PRIOR TO WORK STARTING.
- (C) CHANNELIZING DEVICES SHALL BE PLACED FOR OPTIMUM VISIBILITY, NORMALLY AT RIGHT ANGLES TO THE TRAFFIC FLOW.
- (D) CHANNELIZING DEVICES PLACED ALONG SHOULDER EDGES OR IN DROPOFFS SHALL HAVE A MINIMUM OF 24" FROM THE TOP OF THE CHANNELIZING DEVICE TO THE TOP OF THE PAVEMENT.

| ITEM     | LOCATION                      | LOCATION    |                      |          |        |       |              |                   |                 |       |
|----------|-------------------------------|-------------|----------------------|----------|--------|-------|--------------|-------------------|-----------------|-------|
|          |                               | CROSS-OVERS | SHOOPFLY DIVERSTIONS | TANGENTS | TAPERS | RAMPS | HEAD TO HEAD | OBJECT IDENTIFIER | LEAD IN DEVICES | GORES |
| PORTABLE | DRUMS                         | YES         | YES                  | YES      | YES    | YES   | (1)          | YES               | YES             | YES   |
|          | CONICAL DELINEATORS           | YES         | YES                  | YES      | YES    | YES   | (1)          | YES               | YES             | YES   |
|          | VERTICAL PANELS               | (2)         | (2)                  | (2)      | (2)    | (2)   | (1,2)        | YES               | (2)             | (2)   |
|          | DIRECTION INDICATOR BARRICADE | NO          | NO                   | NO       | YES    | NO    | NO           | NO                | NO              | NO    |
|          | TYPE II BARRICADE             | (2)         | (2)                  | (2)      | (2)    | NO    | NO           | YES               | NO              | NO    |
| FIXED    | TUBULAR MARKERS               | (3)         | (3)                  | (3)      | NO     | (3)   | YES          | NO                | YES             | YES   |
|          | VERTICAL PANELS               | (3)         | (3)                  | (3)      | (3)    | (3)   | (3)          | YES               | (2,3)           | (2)   |

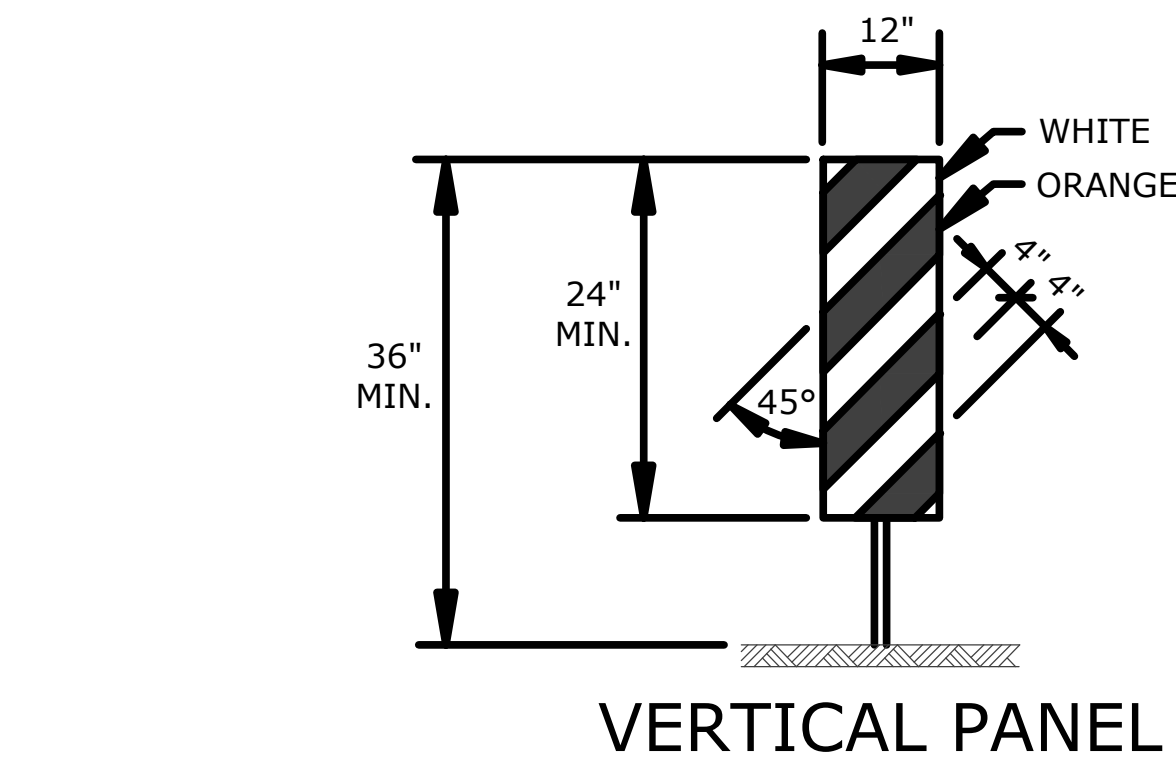
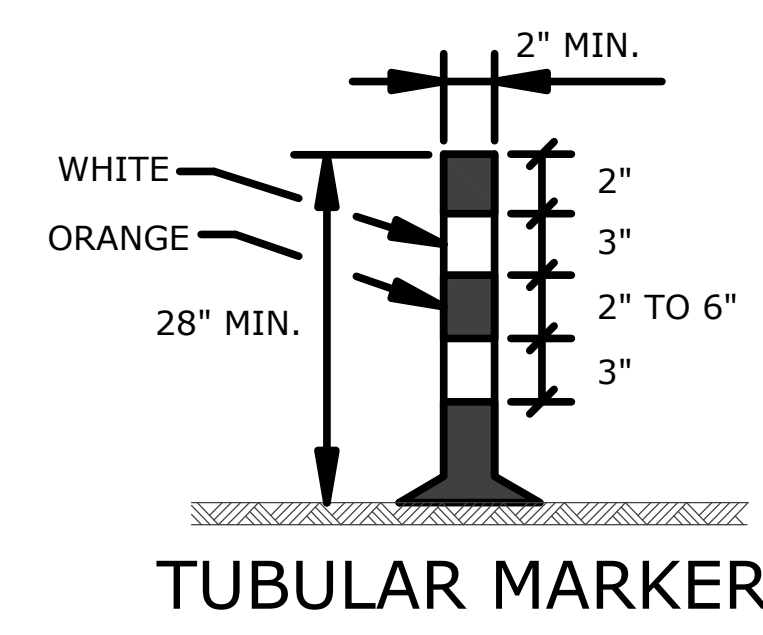
- (1) NOT ALLOWED ON CENTERLINE DELINEATION ALONG FREEWAYS OR EXPRESSWAYS.
- (2) THE STRIPES SHALL SLOPE DOWNWARD TO THE TRAFFIC SIDE FOR CHANNELIZATION.
- (3) MAY BE USED UPON THE APPROVAL OF THE ENGINEER.



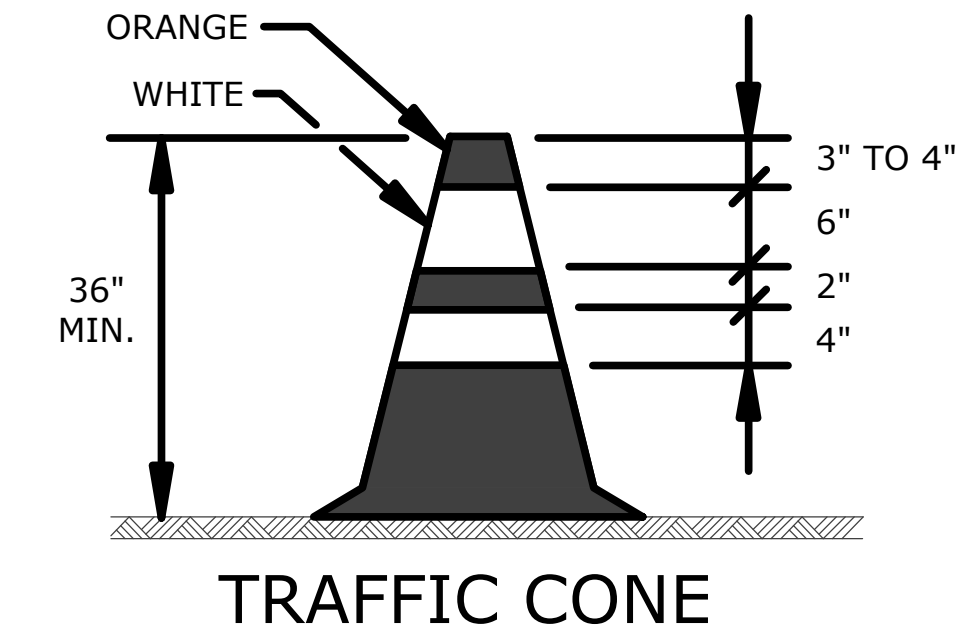
DRUMS AND CONICAL DELINEATORS SHALL HAVE AT LEAST TWO ORANGE AND TWO WHITE 6" TO 8" WIDE RETROREFLECTIVE STRIPES. ADDITIONAL STRIPES MAY BE NON-RETROREFLECTIVE. IF THERE ARE NON-RETROREFLECTIVE SPACES BETWEEN ADJACENT STRIPES, THEY SHALL BE NO MORE THAN 3" WIDE.

ALL RETROREFLECTIVE STRIPES ON DRUMS SHALL BE ASTM TYPE III SHEETING. THE WHITE STRIPES ON CONICAL DELINEATORS SHALL BE ASTM TYPE III SHEETING. ORANGE STRIPES ON ALL CONICAL DELINEATORS SHALL BE FLUORESCENT ORANGE ASTM TYPE IV SHEETING.

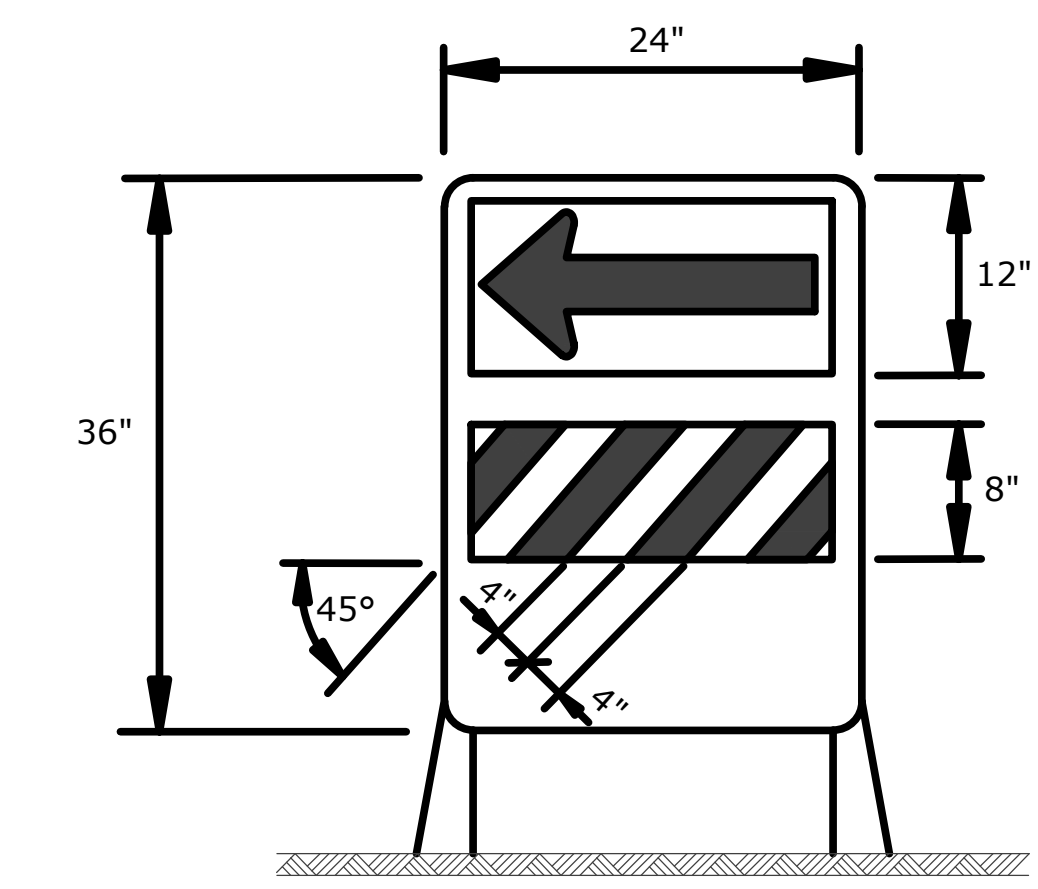
THE TWO WHITE RETROREFLECTIVE STRIPES SHALL BE ASTM TYPE III SHEETING. STRIPING AS SHOWN FOR UP TO 42".



THE ENTIRE AREA OF VERTICAL PANELS, BOTH FRONT AND BACK, SHALL HAVE ASTM TYPE III SHEETING. THE STRIPES SHALL SLOPE DOWNWARD TO THE TRAFFIC SIDE FOR CHANNELIZATION.



TRAFFIC CONES MAY BE USED AS CHANNELIZING DEVICES FOR DAYTIME OPERATIONS ONLY. THEY WILL NOT BE PAID FOR SEPARATELY, BUT WILL BE SUBSIDIARY TO OTHER TRAFFIC CONTROL BID ITEMS. THE ENGINEER MAY REQUIRE THAT TRAFFIC CONES BE SUPPLEMENTED BY OTHER TRAFFIC CONTROL DEVICES IN CERTAIN SITUATIONS.

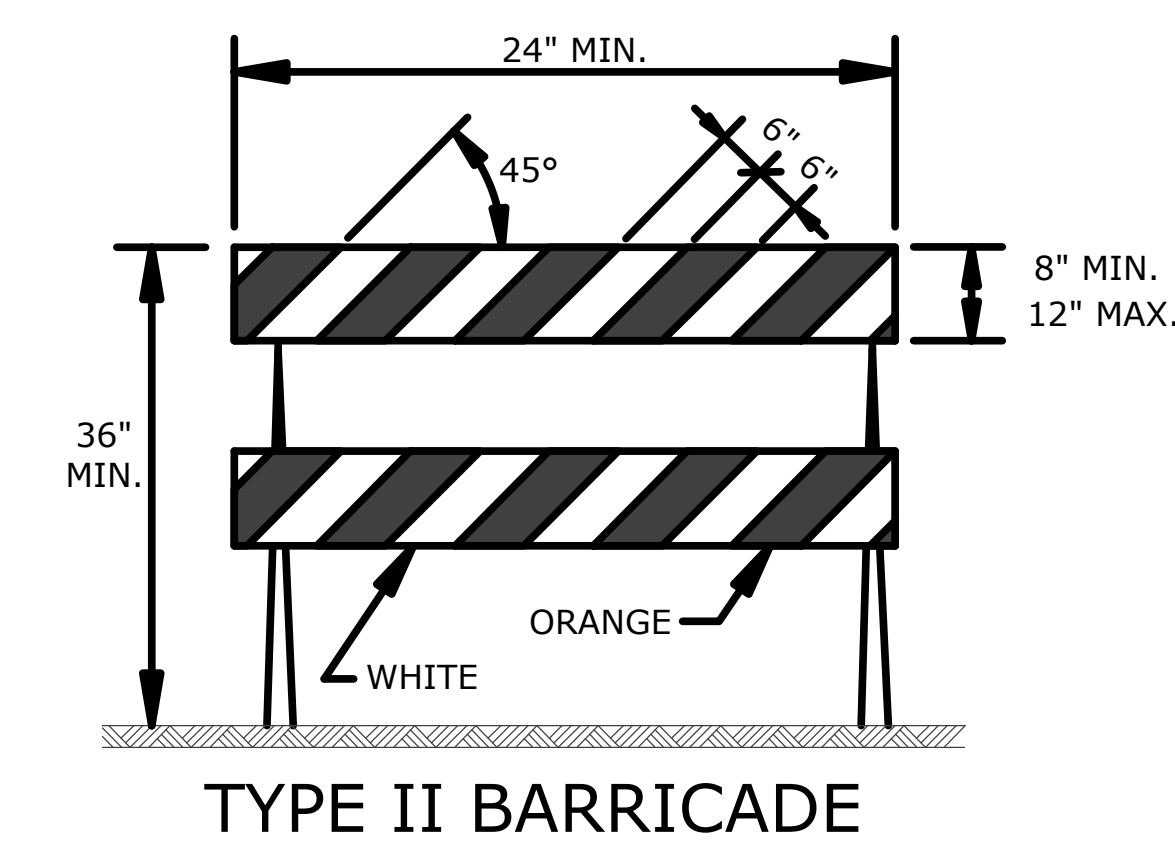


DIRECTION INDICATOR BARRICADE

THE ARROW PANEL SHALL BE BLACK ON FLUORESCENT ORANGE ASTM TYPE IV SHEETING. THE STRIPES SHALL BE ORANGE AND WHITE ASTM TYPE III SHEETING SLOPING DOWNWARD IN THE DIRECTION TRAFFIC IS TO PASS.

THE DIRECTION INDICATOR BARRICADE SHALL BE USED IN SERIES TO DIRECT THE MOTORIST INTO THE INTENDED LANE OF TRAVEL.

THE ARROW PANEL SHOULD NOT BE VISIBLE TO OPPOSING TRAFFIC.



TYPE II BARRICADE

FOR RAILS LESS THAN 36" LONG, 4" WIDE STRIPES MAY BE USED.

THE ENTIRE AREA OF BARRICADE RAILS, BOTH FRONT AND BACK, SHALL BE ASTM TYPE III SHEETING.

THE STRIPES SHALL SLOPE DOWNWARD TO THE TRAFFIC SIDE FOR CHANNELIZATION.

|     |          |   |     |       |
|-----|----------|---|-----|-------|
| NO. | DATE     | REVISION                                    | BY  | APP'D |
| 3   | 10/16/12 | Added Lead In Devices into Mark's Table     | JAM | K.P.  |
| 2   | 10/4/11  | Added Dimension to Tubular Marker Detail    | JAM | K.P.  |
| 1   | 4/20/09  | Channelizer Placement & Traffic Cone Detail | JAM | AAA   |

KANSAS DEPARTMENT OF TRANSPORTATION

CHANNELIZING DEVICES

TE702

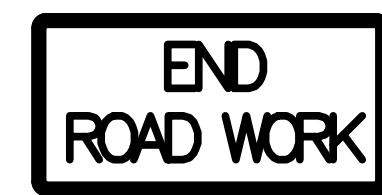
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|        |               |      |           |              |
|--------|---------------|------|-----------|--------------|
| STATE  | PROJECT NO.   | YEAR | SHEET NO. | TOTAL SHEETS |
| KANSAS | 87 TE-0397-01 | 2014 | TC702     |              |

F.A. TEA-T039(701)  
C.O.W. 472-85109

## SIGN LAYOUT INFORMATION



STD. SIZE  
EXPWY/FREEWAY  
6" C  
48"x 24"

KG20-2



STD. SIZE  
EXPWY/FREEWAY  
6" C  
48"x 24"

KG20-5



STD. SIZE  
EXPWY/FREEWAY  
3" C  
24"x 6"

6" C  
48"x 12"

KM4-20



MILEAGE TO BE DETERMINED BY THE ENGINEER.

W7-3a



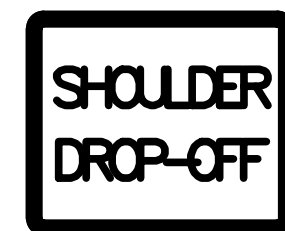
STD. SIZE  
EXPWY/FREEWAY  
8" D  
48"x 48"

W8-11



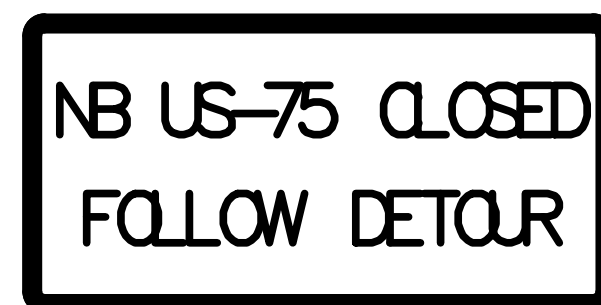
STD. SIZE  
EXPWY/FREEWAY  
48"x 48"

W8-17



STD. SIZE  
EXPWY/FREEWAY  
30"x 24"

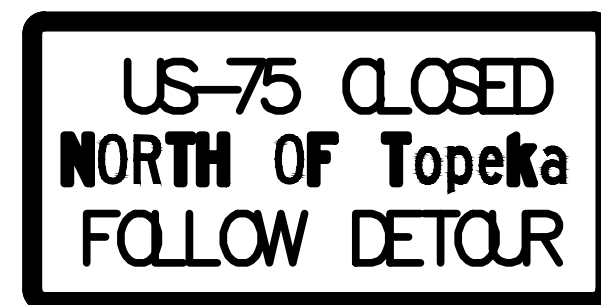
W8-17P  
(OPTIONAL)



STD. SIZE  
EXPWY/FREEWAY  
6" C  
10" D

SP-01

(SPECIAL SIGN)



STD. SIZE  
EXPWY/FREEWAY  
UPPERCASE: 6" C  
10" D  
LOWERCASE: 4.5" C  
8" D

SP-02

(SPECIAL SIGN)

ALL CITY NAMES AND STREET NAMES ON SPECIAL SIGNS AND DESTINATION SIGNS MUST HAVE UPPER AND LOWER CASE LETTERS.

ALL SIGNS SHALL BE BLACK ON ORANGE RETROREFLECTIVE SHEETING.

## GENERAL NOTES

### 1. MAINTENANCE:

THE CONTRACTOR SHALL MAINTAIN ALL SIGNS AND DEVICES IN AN UPRIGHT POSITION. THE CONTRACTOR SHALL CLEAN OR REPLACE ANY DAMAGED OR ILLEGIBLE SIGN OR DEVICE AS DIRECTED BY THE ENGINEER.

### 2. EXISTING SIGNS:

IF EXISTING SIGNS THAT ARE TO REMAIN (WHETHER DENOTED ON THE PLANS OR NOT) INTERFERE WITH CONSTRUCTION WORK, THE CONTRACTOR SHALL REMOVE, STORE, AND RESET THE SIGNS. THIS SHALL BE SUBSIDIARY TO OTHER TRAFFIC CONTROL BID ITEMS. SIGNING DAMAGED BY THE CONTRACTOR SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.

### 3. CONFLICTING SIGNS, SIGNS NOT IN USE, AND TRAFFIC SIGNALS:

SIGNS AND TRAFFIC SIGNALS THAT ARE IN CONFLICT WITH THE TRAFFIC CONTROL PLAN OR DO NOT APPLY TO THE TRAFFIC OPERATIONS SHALL BE IMMEDIATELY REMOVED, TURNED SO NOT VISIBLE TO TRAFFIC FROM ANY DIRECTION, OR COMPLETELY COVERED WITH ADEQUATE OPAQUE BREATHABLE MATERIAL. TAPE SHALL NOT BE APPLIED TO THE FACE OF THE SIGN.

### 4. PORTABLE AND POST MOUNTED SIGNS:

TEMPORARY TRAFFIC CONTROL SIGNS THAT ARE ANTICIPATED TO REMAIN IN PLACE FOR 3 DAYS OR LESS ARE CONSIDERED "PORTABLE." PORTABLE SIGNS SHALL BE MOUNTED ON AN APPROVED SUPPORT AT A MINIMUM HEIGHT OF 12" ABOVE THE TRAVELED WAY. TRAFFIC CONTROL SIGNS IN PLACE FOR OVER 3 DAYS ARE REQUIRED TO BE MOUNTED ON APPROVED POSTS. A MINIMUM OF 42" OF THE APPROVED POST MUST BE BELOW THE GROUND SURFACE WITH ADEQUATE BACKFILL AND COMPACTION. ALL POSTS AT MINIMUM SHALL EXTEND TO THE TOP EDGE OF THE SIGN AND NO GREATER THAN 6" ABOVE THE SIGN.

WHEN THE SIGN WIDTH IS EQUAL TO OR GREATER THAN 9', THREE OR MORE WOOD POSTS MAY BE USED WITH A MINIMUM OF 4' BETWEEN THE CENTERLINE OF EACH POST. ALL SIGNS LESS THAN 9' IN WIDTH SHALL USE A MAXIMUM OF TWO WOOD POSTS.

"ROLL-UP" SIGNS MAY BE USED FOR PORTABLE WARNING SIGNS. THEY MUST BE FLUORESCENT ORANGE ASTM TYPE IV SIGNS OF OPAQUE MATERIAL. MESH SIGNS ARE NOT ALLOWED.

IN THE CASE OF HITTING ROCK WHEN DRIVING POSTS

- SHIFT THE SIGN LOCATION. DO NOT VIOLATE MINIMUM SIGN SPACING.
- WITH THE ENGINEER'S APPROVAL, USE ACCEPTABLE ALTERNATIVE SIGN STANDS.

### 5. SHEETING:

ALL ORANGE SIGNS SHALL HAVE FLUORESCENT ORANGE ASTM TYPE IV SHEETING. ALL OTHER SIGNS SHALL HAVE ASTM TYPE III SHEETING OF STANDARD COLORS.

### 6. SIGNS INVOLVING SPEEDS:

THE W3-5 (SPEED REDUCTION) SHOULD BE USED ONLY IF THE ENGINEER DETERMINES THAT A REDUCED SPEED IS REQUIRED ON THE PROJECT.

THE KM4-20 (WORK ZONE) PLAQUE SHALL BE PLACED ABOVE ALL SPEED LIMIT SIGNS, (R2-1), EXISTING AND TEMPORARY. MOUNT THE WORK ZONE PLAQUES TO THE POST. DO NOT OVERLAP THE R2-1 AND KM4-20 SIGNS.

FOR SPEEDS OF 30 MPH OR LESS, THE W1-1(TURN) OR W1-3(REVERSE TURN) SHOULD BE USED. FOR SPEEDS OF 35 MPH OR MORE, THE W1-2(CURVE) OR W1-4(REVERSE CURVE) SHOULD BE USED. THE W13-1(MPH) IS TO BE ELIMINATED IF THE ADVISORY SPEED IS WITHIN 5 MPH OF THE SPEED LIMIT.

### 7. SIGNS CONTROLLING WORK ZONE:

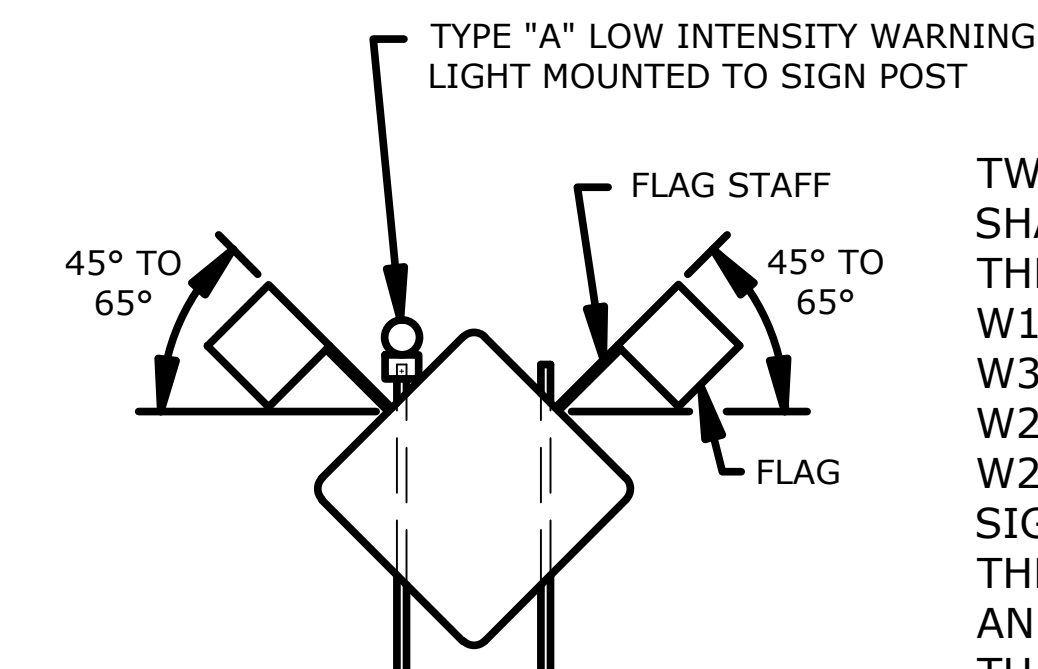
THE KG20-2(END ROAD WORK) SHOULD BE PLACED 500' FROM THE END OF THE ACTUAL WORK SPACE, NOT NECESSARILY AT THE EXTREME LIMITS OF THE PROJECT. THE KG20-2 SHOULD BE MOUNTED ON TWO POSTS. THE KG20-2 MAY BE MOUNTED ON ONE POST IF IN URBAN AREAS WHERE UTILITIES ARE A PROBLEM AND WIND LOADS ARE NOT AN ISSUE.

WHERE TWO WORK ZONES ARE LESS THAN 1 MILE APART IN RURAL AREAS OR 1/4 MILE APART IN URBAN AREAS, THE KG20-2(END ROAD WORK) FOR THE FIRST WORK ZONE AND THE W20-1(ROAD WORK) FOR THE SECOND WORK ZONE SHOULD BE ELIMINATED.

### 8. WARNING LIGHTS ON SIGNS:

A TYPE "A" LOW INTENSITY WARNING LIGHT IS AN L.E.D. BI-DIRECTIONAL FLASHING WORK ZONE WARNING LIGHT. TYPE "A" LOW INTENSITY WARNING LIGHTS SHOULD BE USED WITH ALL CONSTRUCTION ACTION WARNING SIGNS AND SHALL NOT BE USED ON SIGNS MOUNTED LESS THAN 5' HIGH ON TEMPORARY SUPPORTS. ON ALL OTHER CONSTRUCTION WARNING SIGNS, TYPE "A" LOW INTENSITY WARNING LIGHTS ARE TO BE USED AS DIRECTED BY THE ENGINEER.

TYPE "A" LOW INTENSITY WARNING LIGHTS SHALL BE MAINTAINED SO AS TO BE CAPABLE OF BEING VISIBLE ON A CLEAR NIGHT FROM A DISTANCE OF 3000 FT. IF A TYPE "A" LOW INTENSITY WARNING LIGHT HAS A SEPARATE BATTERY CASE, THE BATTERY CASE SHALL BE MOUNTED NO HIGHER THAN 12" ABOVE THE GROUND AND MOUNTED BEHIND THE SIGN POST. A TYPE "A" LOW INTENSITY WARNING LIGHT WHERE THE LENS AND BATTERY ARE ONE UNIT SHALL BE MOUNTED ON THE TEMPORARY SIGN POST NEAREST TO THE TRAVELED WAY. FLAGS SHALL NOT INTERFERE WITH THE VISIBILITY OF THE TYPE "A" LOW INTENSITY WARNING LIGHT.



TWO (2) 18" x 18" FLUORESCENT RED-ORANGE FLAGS SHALL BE ATTACHED (IN THE POSITION SHOWN) ON THE W20-2(DETOUR), W1-1(TURN), W1-2(CURVE), W1-3(REVERSE TURN), W1-4(REVERSE CURVE), W3-3(SIGNAL AHEAD), W4-2(LANE REDUCTION), W20-4(ONE LANE ROAD), W20-5(LANE CLOSED), W20-7A(FLAGGER), AND W3-4 (BE PREPARED TO STOP) SIGNS AND ANY OTHER ACTION SIGNS AS SHOWN ON THE PLANS OR DIRECTED BY THE ENGINEER. THE FLAGS AND STAFFS ARE TO BE ATTACHED IN SUCH A MANNER THAT THE SIGN WILL NOT BE OBTSCURED. THE FLAGS MAY BE EITHER A CLOTH OR VINYL MATERIAL. THE FLAGS SHALL BE SUBSIDIARY TO THE CONSTRUCTION SIGN BID ITEMS.

### MINIMUM ADVANCE WARNING SIGN SPACING (IN FEET):

|                          | A    | B    | C    |
|--------------------------|------|------|------|
| URBAN (40 MPH OR LOWER)  | 100  | 100  | 100  |
| URBAN (45 MPH OR HIGHER) | 350  | 350  | 350  |
| RURAL (55 MPH OR LOWER)  | 500  | 500  | 500  |
| RURAL (60 MPH OR HIGHER) | 750  | 750  | 750  |
| EXPRESSWAY/FREEWAY       | 1000 | 1500 | 2640 |

THE MINIMUM SPACING BETWEEN SIGNS SHALL BE NO LESS THAN 100', UNLESS DIRECTED BY THE ENGINEER.

THE SPACING BETWEEN ANY SIGNS MAY BE INCREASED BEYOND THE MINIMUM VALUES IN THE TABLE ABOVE AS APPROVED BY THE ENGINEER IN ORDER TO MAXIMIZE VISIBILITY.

|     |          |   |        |        |
|-----|----------|---|--------|--------|
| 3   | 10/16/12 | Removed Note 9, Modified Sign Layout Detail | J.A.M. | K.P.   |
| 2   | 10/4/11  | Modified Note 3                             | J.A.M. | K.P.   |
| 1   | 2/24/10  | Modified AFAD Note                          | J.A.M. | A.A.A. |
| NO. | DATE     | REVISIONS                                   | BY     | APP'D  |

KANSAS DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL SIGNS

TE710

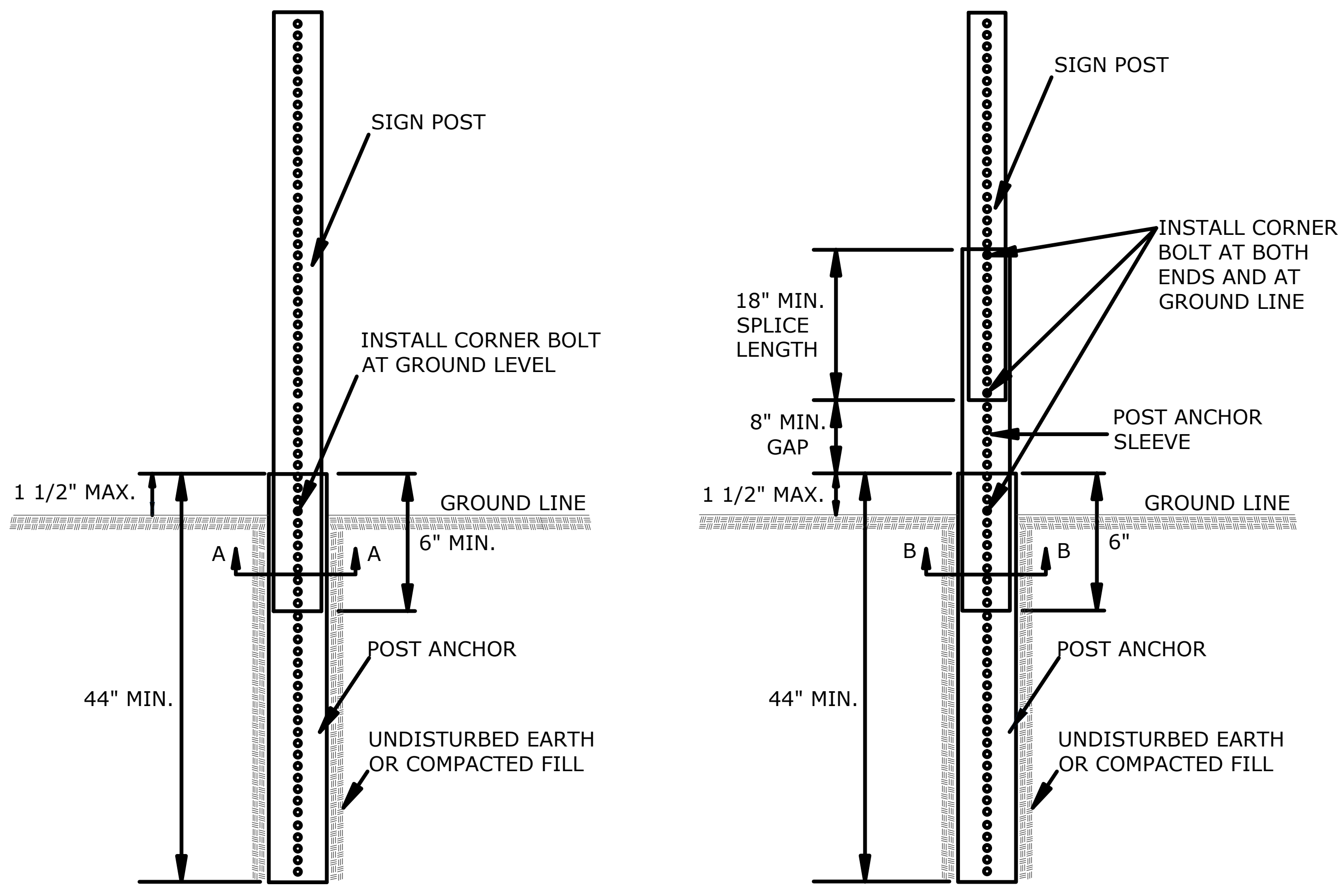
|               |                     |                     |
|---------------|---------------------|---------------------|
| FHWA APPROVAL | 10/1 SHT. NO. TC702 | ina Pyle            |
| DESIGNED      | B.A.H. DETAILED     | B. TRACED           |
| DESIGN CK.    | DETAIL CK.          | QUAN. CK. TRACE CK. |

KDOT Graphics Certified 10-23-2012

SHT. NO. TC702

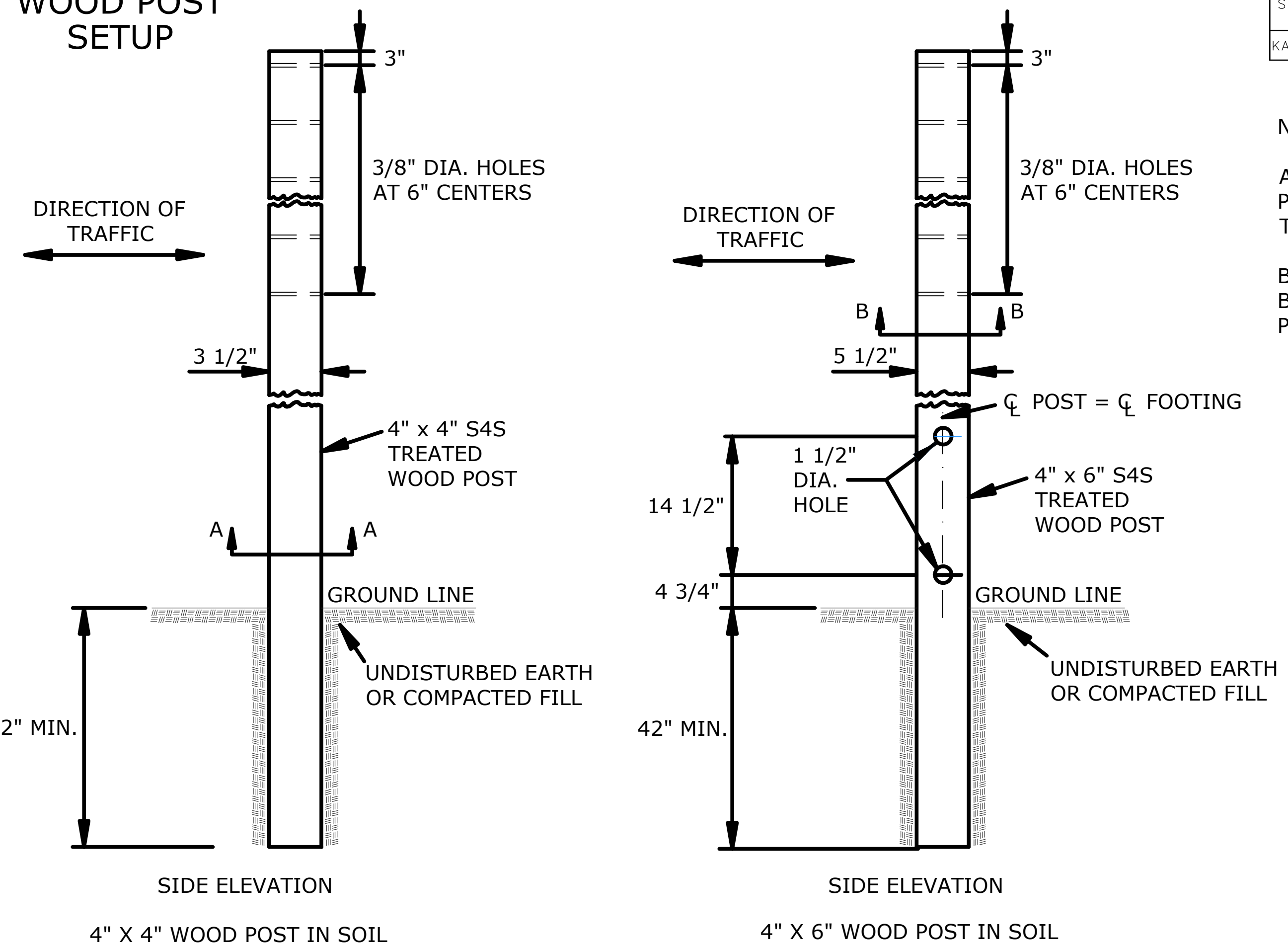
KDOT Graphics Certified

# PERFORATED SQUARE STEEL TUBE (P.S.S.T.) POST SETUP



DETAILS FOR 2", 2 1/4", OR 2 1/2" SIGN POST  
PLACE BOLTS IN THE SAME CORNER ALONG EACH SIGN POST.

# WOOD POST SETUP



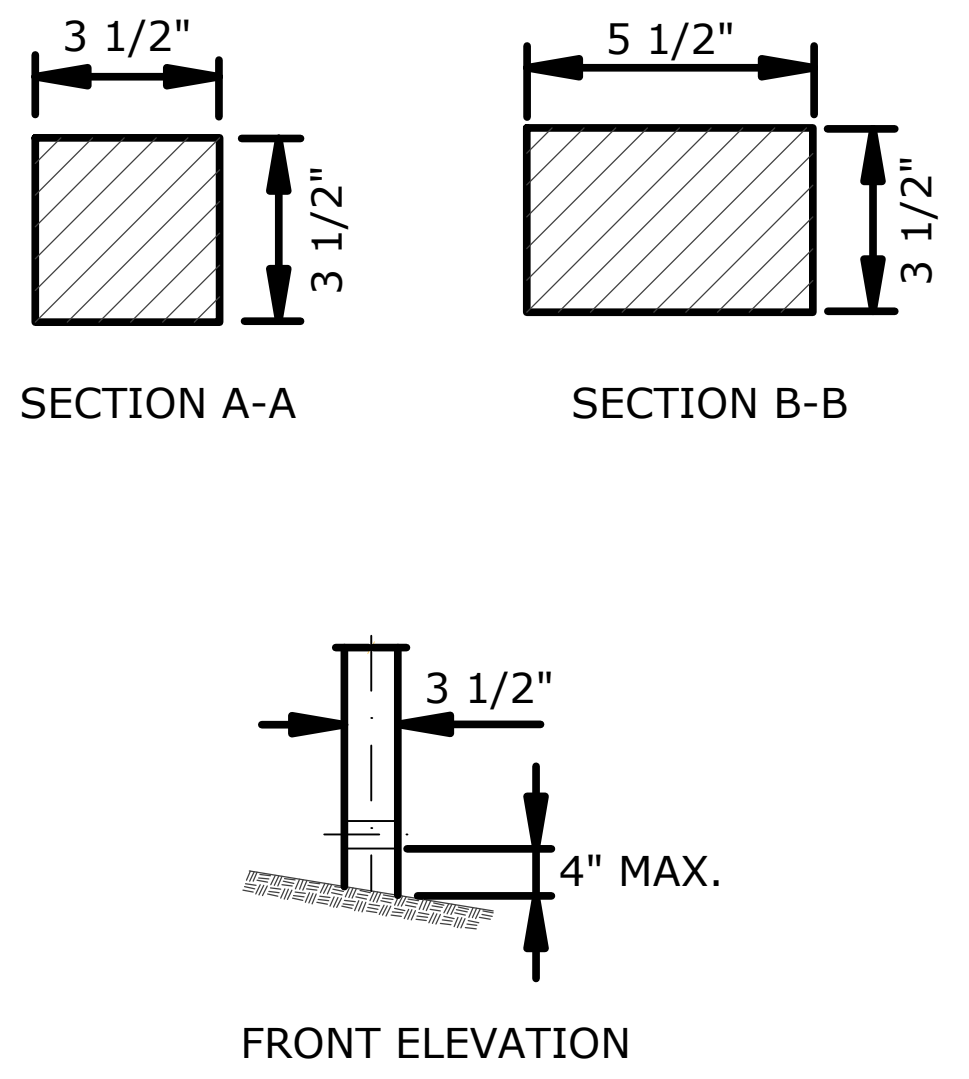
| STATE  | PROJECT NO.   | YEAR | SHEET NO. | TOTAL SHEETS |
|--------|---------------|------|-----------|--------------|
| KANSAS | 87 TE-0397-01 | 2014 | TC703     |              |

F.A. TEA-T039(701)  
C.O.W. 472-85109

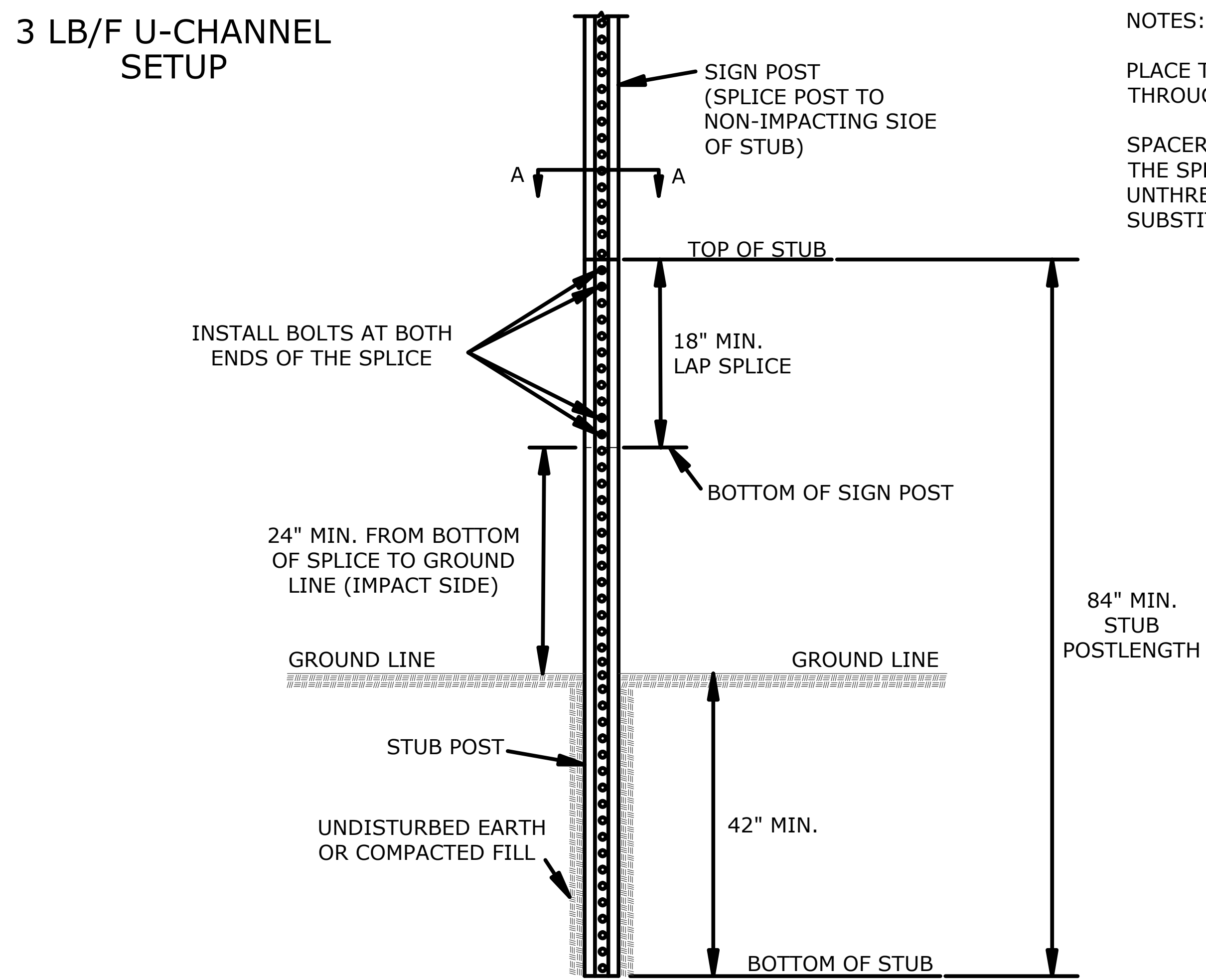
**NOTES:**

ALL SIGN MOUNTING HOLES IN THE WOOD POSTS SHALL BE DRILLED PRIOR TO TREATING.

BREAKAWAY HOLES AND FIELD CUTS SHALL BE TREATED IN ACCORDANCE WITH THE PRESERVATIVE TREATMENT SPECIFICATIONS.



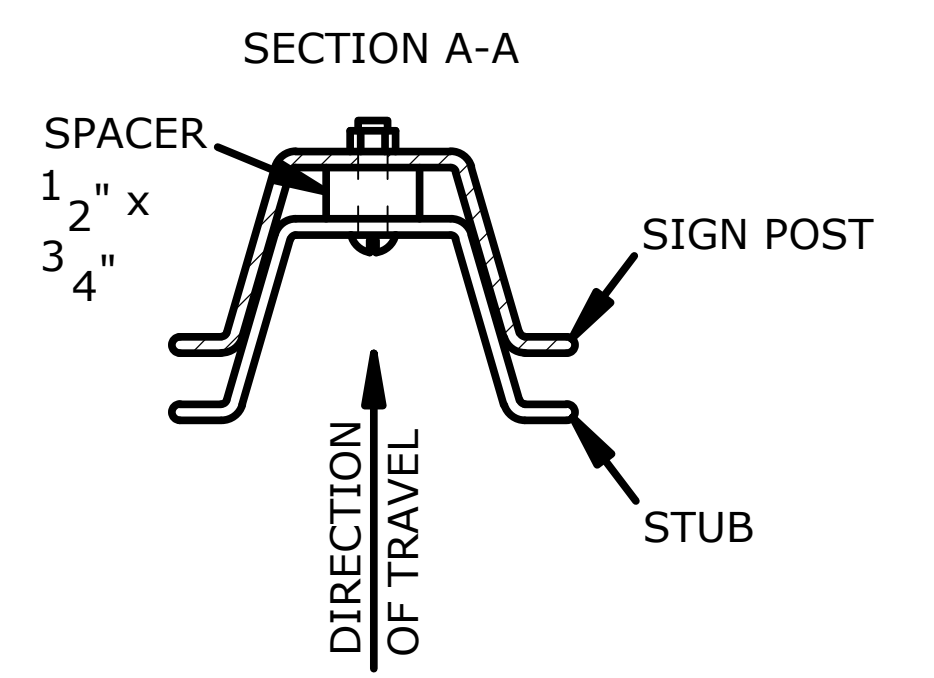
# 3 LB/F U-CHANNEL SETUP



**NOTES:**

PLACE TWO BOLTS AT BOTH ENDS OF THE SPLICE THROUGH THE HOLES NEAREST THE ENDS OF THE SPLICE.

SPACERS WILL BE USED OVER THE BOLTS BETWEEN THE SPLICED PIECES OF U-CHANNEL. THREADED OR UNTHREADED SPACERS MAY BE USED. DO NOT SUBSTITUTE PIPE OR OTHER "ITEMS" FOR THE SPACERS.



| NO. | DATE     | REVISIONS                                 | BY     | APP'D  |
|-----|----------|---|--------|--------|
| 3   | 10/16/12 | Add Spacer Dimension, Removed P.S.T. Note | J.A.M. | K.P.   |
| 2   | 10/4/11  | Removed Washer On P.S.T. Detail           | J.A.M. | K.P.   |
| 1   | 8/1/10   | Modified Post Anchor Sleeve Dimension     | J.A.M. | A.A.A. |

KANSAS DEPARTMENT OF TRANSPORTATION

APPROVED TEMPORARY POST SETUPS

TE712

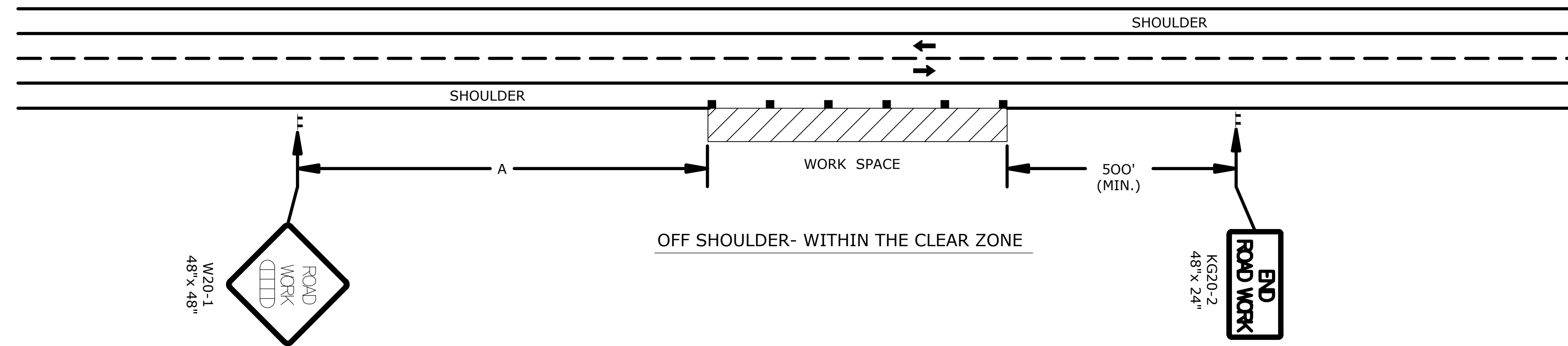
10/23/2012

DOT Graphics Certified 10-23-2012 SHT. NO. TC703

|        |               |      |           |              |
|--------|---------------|------|-----------|--------------|
| STATE  | PROJECT NO.   | YEAR | SHEET NO. | TOTAL SHEETS |
| KANSAS | 87 TE-0397-01 | 2014 | TC704     |              |

F.A. TEA-T039(701)  
C.O.W. 472-85109

REFER TO STD. TE710 FOR ADDITIONAL INFORMATION ON TEMPORARY TRAFFIC CONTROL SIGNS AND SIGN SPACING.  
REFER TO STD. TE702 FOR INFORMATION ON TAPERS AND CHANNELIZING DEVICES.  
REFER TO STD. TE700 FOR LENGTH OF BUFFER SPACE.

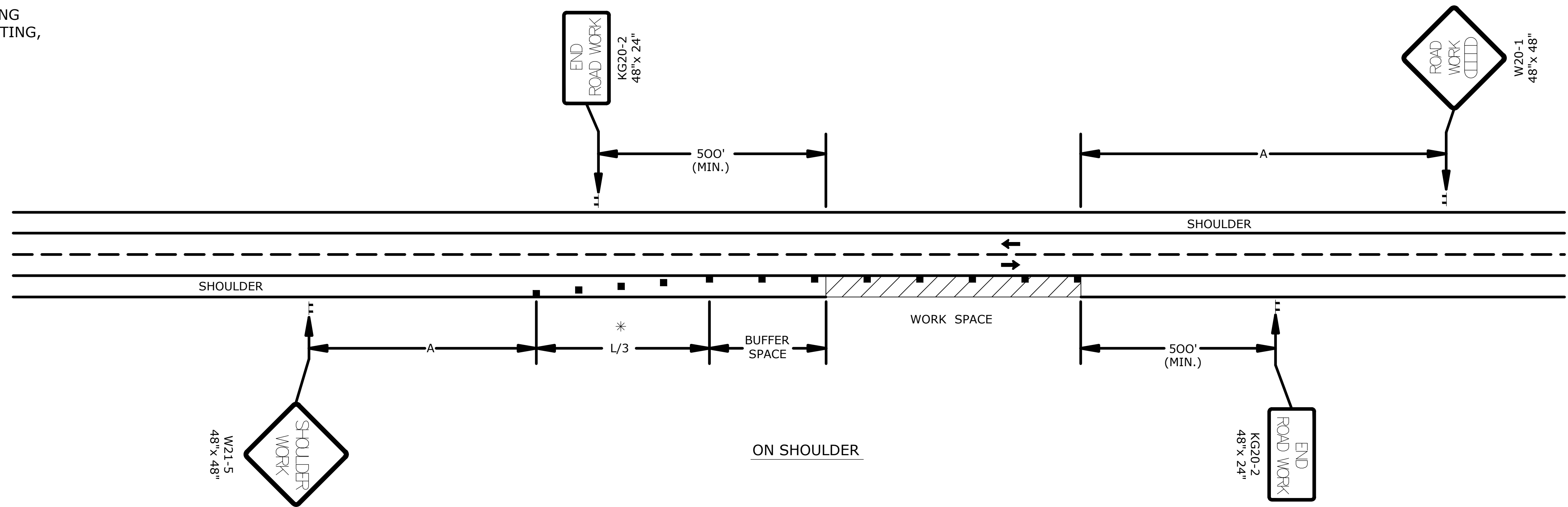


NOTES:

NO TRAFFIC CONTROL IS REQUIRED IF THE WORK SPACE IS LOCATED OUTSIDE OF THE CLEAR ZONE.

FOR OPERATIONS OF 60 MINUTES OR LESS, ALL SIGNS AND CHANNELIZING DEVICES MAY BE ELIMINATED IF A VEHICLE WITH HIGH-INTENSITY ROTATING, FLASHING, OSCILLATING, OR STROBE LIGHTS IS USED.

WHEN CONCRETE BARRIER SYSTEM IS USED, PORTABLE CHANNELIZING DEVICES ARE NOT NEEDED ALONG THE TANGENT BARRIER SECTION. DELINEATION ON THE BARRIER SYSTEM IS STILL REQUIRED. SEE RD622.



\* OMIT TAPER IF PAVED SHOULDER IS LESS THAN 8' WIDE.

- CHANNELIZING DEVICE
- AHEAD, 1500 FT, OR 1 MILE

|     |          |                                |        |        |
|-----|----------|--------------------------------|--------|--------|
| 3   | 10/16/12 | Modified Shoulder Detail       | J.A.M. | K.P.   |
| 2   | 4/20/09  | Combined And Moved Guard Notes | J.A.M. | A.A.A. |
| 1   | 8/8/07   | GGD-2 Changed To HSD-2         | M.B.   | A.A.A. |
| NO. | DATE     | REVISIONS                      | BY     | APP'D  |

KANSAS DEPARTMENT OF TRANSPORTATION  
TYPICAL TRAFFIC CONTROL  
WORK ON OR NEAR THE SHOULDER  
UNDIVIDED HIGHWAY (2 OR 4 LANE)

**TE720**

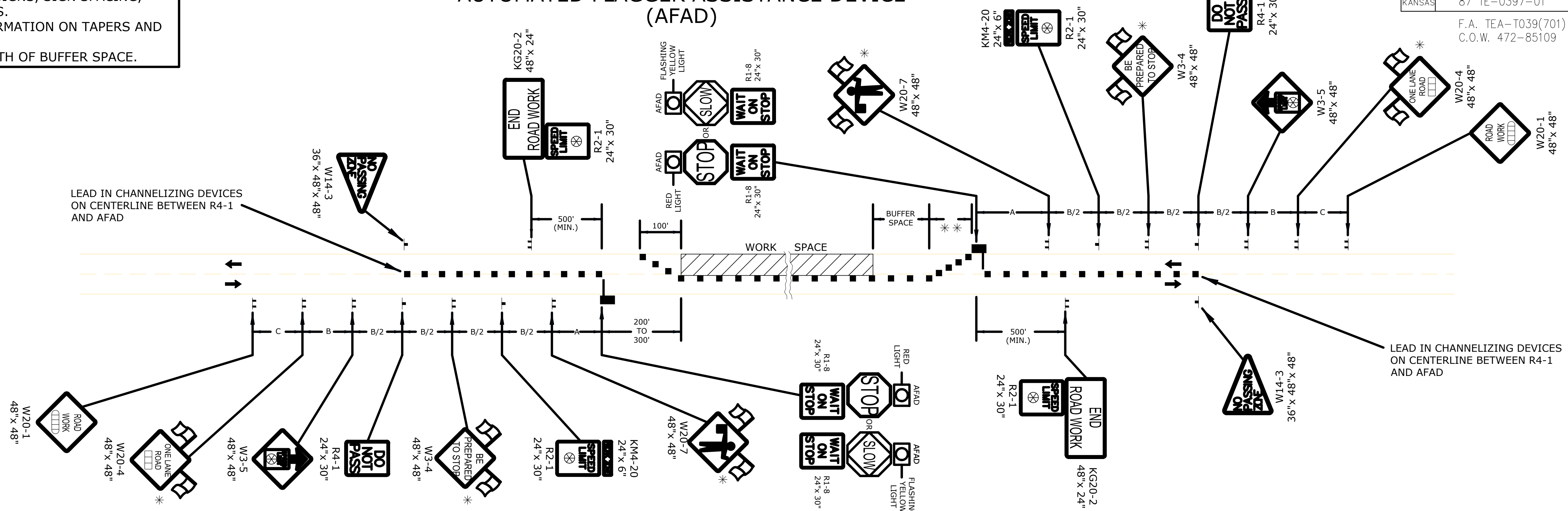
|           |               |          |  |
|-----------|---------------|----------|--|
| DESIGNED  | 10/16/12/JEP  | DATE     |  |
| DRAWN     | L.F.S./D.W.L. | CHECKED  |  |
| IN CHARGE | J.A.M./M.B.   | APPROVED |  |
| DATE      | 10/16/12      | BY       |  |

|        |               |      |           |              |
|--------|---------------|------|-----------|--------------|
| STATE  | PROJECT NO.   | YEAR | SHEET NO. | TOTAL SHEETS |
| KANSAS | 87 TE-0397-01 | 2014 | TC705     |              |

F.A. TEA-T039(701)  
C.O.W. 472-85109

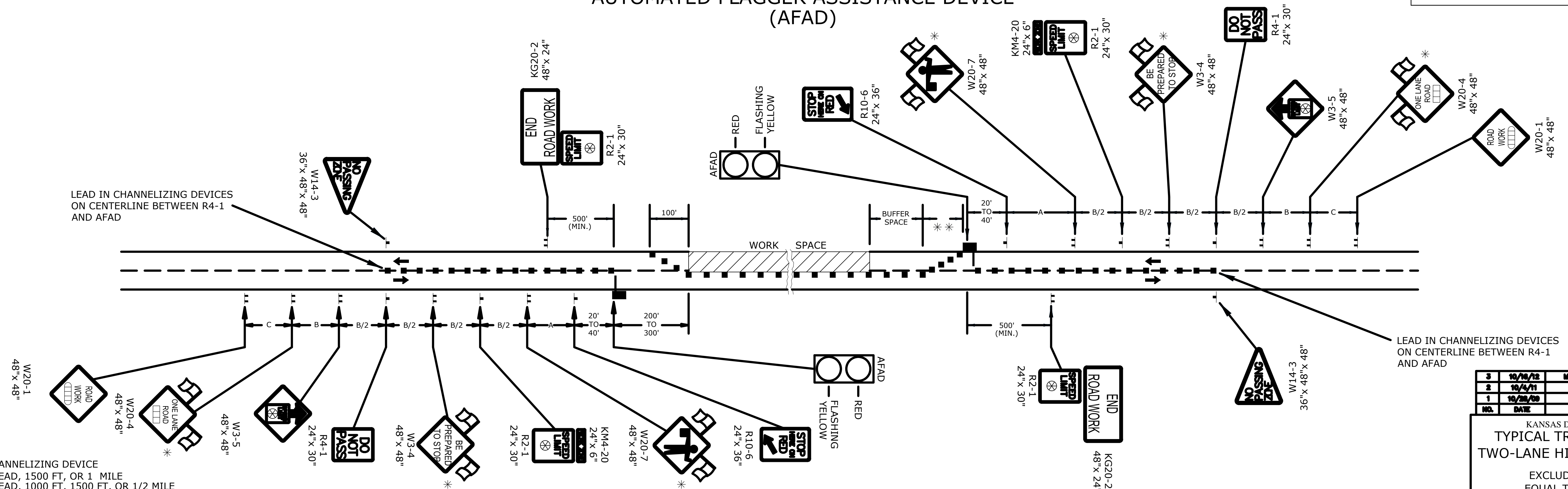
REFER TO STD. TE710 FOR ADDITIONAL INFORMATION ON TEMPORARY TRAFFIC CONTROL SIGNS, SIGN SPACING, CONFLICTING SIGNS AND AFAD'S. REFER TO STD. TE702 FOR INFORMATION ON TAPERS AND CHANNELIZING DEVICES. REFER TO STD. TE700 FOR LENGTH OF BUFFER SPACE.

### STOP/SLOW PADDLE AUTOMATED FLAGGER ASSISTANCE DEVICE (AFAD)



\* WHEN APPLICABLE, USE TYPE "A" LOW INTENSITY WARNING LIGHTS AS DIRECTED BY ENGINEER.  
\*\* THERE SHOULD BE A MINIMUM OF SIX (6) CHANNELIZERS SPACED AT 20' INTERVALS.

### RED/YELLOW LENS AUTOMATED FLAGGER ASSISTANCE DEVICE (AFAD)



- CHANNELIZING DEVICE
- AHEAD, 1500 FT, OR 1 MILE
- AHEAD, 1000 FT, 1500 FT, OR 1/2 MILE
- ⊗ SPEED TO BE DETERMINED BY THE ENGINEER
- TYPE "A" LOW INTENSITY WARNING LIGHT
- ⊣ AFAD

|     |          |                                   |     |       |
|-----|----------|-----------------------------------|-----|-------|
| 3   | 10/16/12 | Modified Lead in Channelizer Hole | JAM | K.P.  |
| 2   | 10/4/11  | Removed Conflicting Sign Hole     | JAM | K.P.  |
| 1   | 10/28/09 | Added R1-8 Identification         | JAM | AAA   |
| NO. | DATE     | REVISIONS                         | BY  | APP'D |

KANSAS DEPARTMENT OF TRANSPORTATION  
**TYPICAL TRAFFIC CONTROL A.F.A.D.**  
**TWO-LANE HIGHWAY ONE LANE CLOSED**

EXCLUDING CONCRETE SHOULDERS  
EQUAL TO OR GREATER THAN 8 FT

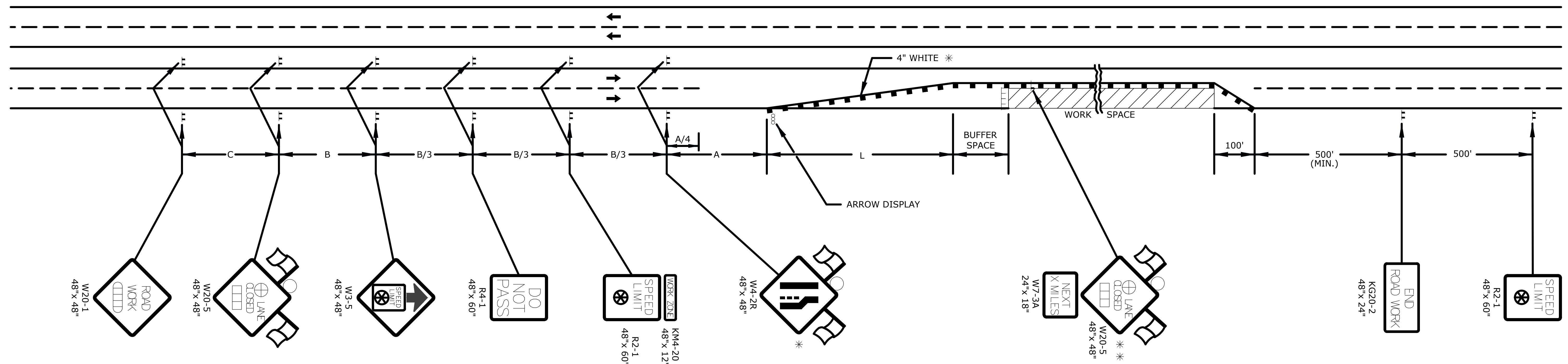
**TE728**

|             |          |          |          |
|-------------|----------|----------|----------|
| DESIGNED BY | 10/28/09 | 10/28/09 | 10/28/09 |
| CHECKED BY  | JAM      | JAM      | JAM      |
| DATE        | 10/28/09 | 10/28/09 | 10/28/09 |
| DESIGNED BY | DATE     | 10/28/09 | 10/28/09 |

|        |               |      |           |              |
|--------|---------------|------|-----------|--------------|
| STATE  | PROJECT NO.   | YEAR | SHEET NO. | TOTAL SHEETS |
| KANSAS | 87 TE-0397-01 | 2014 | TC706     |              |

F.A. TEA-T039(701)  
C.O.W. 472-85109

REFER TO STD. TE710 FOR ADDITIONAL INFORMATION ON TEMPORARY TRAFFIC CONTROL SIGNS AND SIGN SPACING. REFER TO STD. TE704 FOR TYPE III BARRICADES. REFER TO STD. TE702 FOR INFORMATION ON TAPERS AND CHANNELIZING DEVICES. REFER TO STD. TE700 FOR LENGTH OF BUFFER SPACE.



LEFT-SIDE SIGNS SHALL BE OMITTED FOR A FOUR-LANE UNDIVIDED HIGHWAY.

\* FOR LEFT LANE CLOSURES USE W4-2L AND YELLOW EDGE LINE ALONG CHANNELIZING DEVICES.

\*\* THE W20-5 (⊕ LANE CLOSED) AND W7-3A (NEXT X MILES) SIGNS SHOULD BE PLACED AT 2 MILE INCREMENTS ON A PROJECT OF 4 MILES OR LONGER.

- ||| TYPE III BARRICADES
- X LENGTH TO THE NEAREST WHOLE MILE
- CHANNELIZING DEVICE
- ▭ AHEAD, 1500 FT, OR 1 MILE
- ▭ AHEAD, 1000 FT, 1500 FT, OR 1/2 MILE
- ⊕ RIGHT OR LEFT
- ⊙ SPEED TO BE DETERMINED BY THE ENGINEER
- TYPE "A" LOW INTENSITY WARNING LIGHT

| NO. | DATE     | REVISIONS                              | BY   | APP'D  |
|-----|----------|--|------|--------|
| 3   | 8/8/07   | Sign Spacing Changed                   | M.B. | A.A.A. |
| 2   | 12/29/05 | M4-20 Changed To KM4-20                | M.B. | A.A.A. |
| 1   | 2/1/05   | Clarified Notes, Updated Warning Signs | B.H. | A.A.A. |

KANSAS DEPARTMENT OF TRANSPORTATION  
**TYPICAL TRAFFIC CONTROL  
FOUR-LANE HIGHWAY  
ONE LANE CLOSED**

TE744

|               |        |           |                   |
|---------------|--------|-----------|-------------------|
| FHWA APPROVAL | 8/8/07 | APP'D     | Anthony Alrobaire |
| DESIGNED      | B.A.H. | DETAILED  | B.A.H.            |
| QUANTITIES    | TRACED | QUAN. CK. | TRACE CK.         |

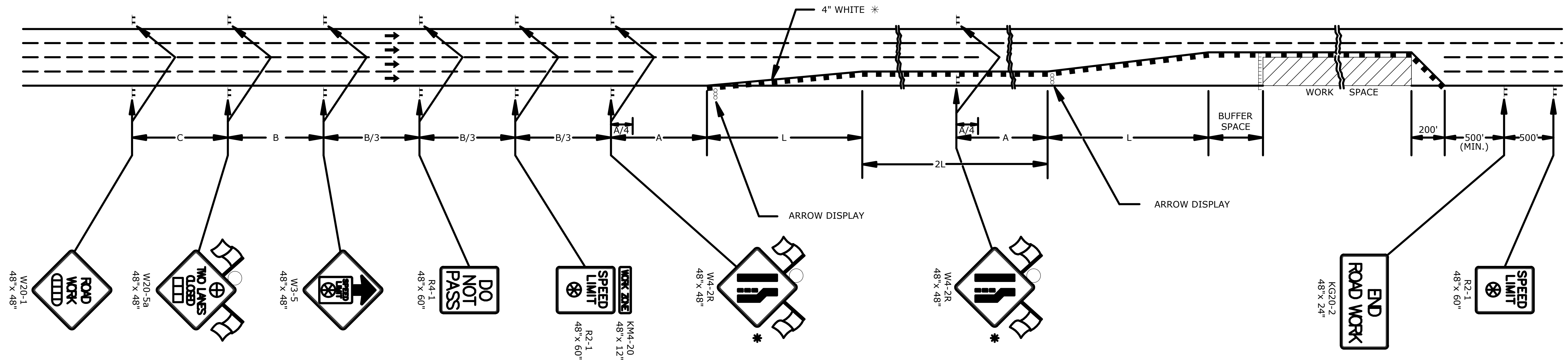
KDOT Graphics Certified 10-23-2012 SHT. NO. TC706

KDOT Graphics Certified

| STATE  | PROJECT NO.   | YEAR | SHEET NO. | TOTAL SHEETS |
|--------|---------------|------|-----------|--------------|
| KANSAS | 87 TE-0397-01 | 2014 | TC707     |              |

F.A. TEA-T039(701)  
C.O.W. 472-85109

REFER TO STD. TE710 FOR ADDITIONAL INFORMATION ON TEMPORARY TRAFFIC CONTROL SIGNS AND SIGN SPACING.  
REFER TO STD. TE704 FOR TYPE III BARRICADES.  
REFER TO STD. TE702 FOR INFORMATION ON TAPERS AND CHANNELIZING DEVICES.  
REFER TO STD. TE700 FOR LENGTH OF BUFFER SPACE.



\* FOR LEFT LANE CLOSURES USE W4-2L AND YELLOW EDGE LINE ALONG CHANNELIZING DEVICES.

- TYPE III BARRICADES
- CHANNELIZING DEVICE
- ▭ AHEAD, 1500 FT, OR 1 MILE
- ▭ AHEAD, 1000 FT, 1500 FT, OR 1/2 MILE
- ⊕ RIGHT OR LEFT
- ⊗ SPEED TO BE DETERMINED BY THE ENGINEER
- TYPE "A" LOW INTENSITY WARNING LIGHT

| NO. | DATE     | REVISIONS                            | BY     | APP'D  |
|-----|----------|--------------------------------------|--------|--------|
| 3   | 10/4/11  | Modified Pavement Marking Dimensions | J.A.M. | K.P.   |
| 2   | 8/8/07   | Sign Spacing Change                  | M.B.   | A.A.A. |
| 1   | 12/20/05 | W4-20 Changed to W4-2R               | M.B.   | A.A.A. |

KANSAS DEPARTMENT OF TRANSPORTATION  
TYPICAL TRAFFIC CONTROL  
MULTI-LANE HIGHWAY  
TWO LANES CLOSED

**TE746**

|          |    |      |    |      |
|----------|----|------|----|------|
| DESIGNED | BY | DATE | BY | DATE |
| DRIVEN   | BY | DATE | BY | DATE |