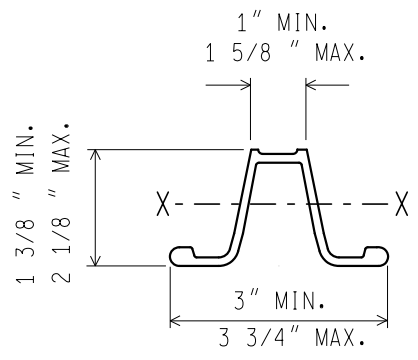


3 lbs STEEL POST

3 lbs STEEL POST WITH SPLICE

(OPTIONAL SPLICE DETAIL FOR POSTS GREATER THAN 16')



WEIGHT = 3 lbs/ft MIN.

SECTION MODULUS X-X = 0.31 in 3 MIN.



PREPARED BY
DESIGN DIVISION

DRAWN BY: JB

CHECKED BY: EO

DEPARTMENT DIRECTOR
Paul C. Ajegba

APPROVED BY: _____
DIRECTOR, BUREAU OF FIELD SERVICES

APPROVED BY: _____
DIRECTOR, BUREAU OF DEVELOPMENT

MICHIGAN DEPARTMENT OF TRANSPORTATION
BUREAU OF DEVELOPMENT STANDARD PLAN FOR

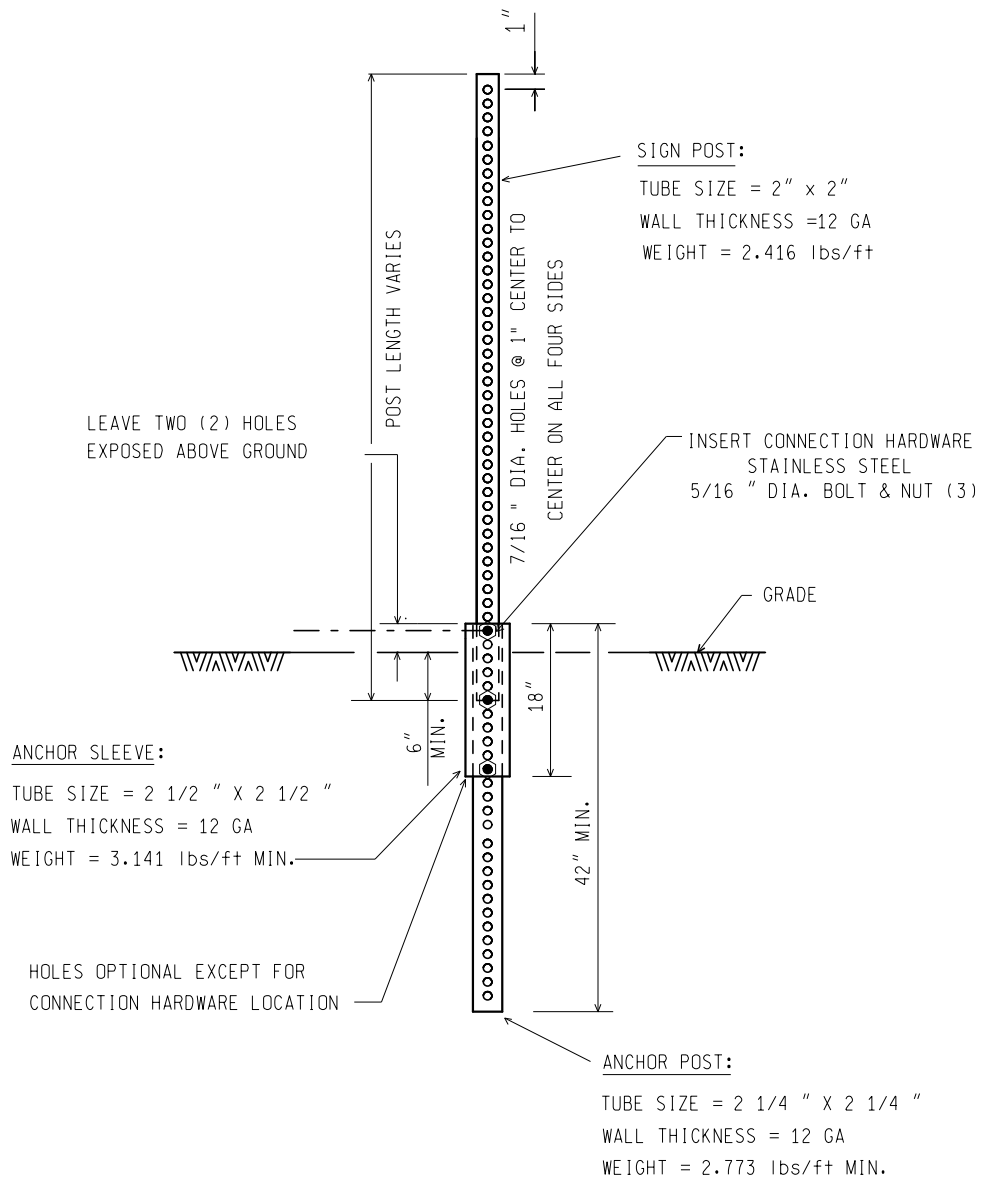
STEEL POSTS

01/16/20
F.H.W.A. APPROVAL

8/24/20
PLAN DATE

SIGN-200-E

SHEET
1 OF 4



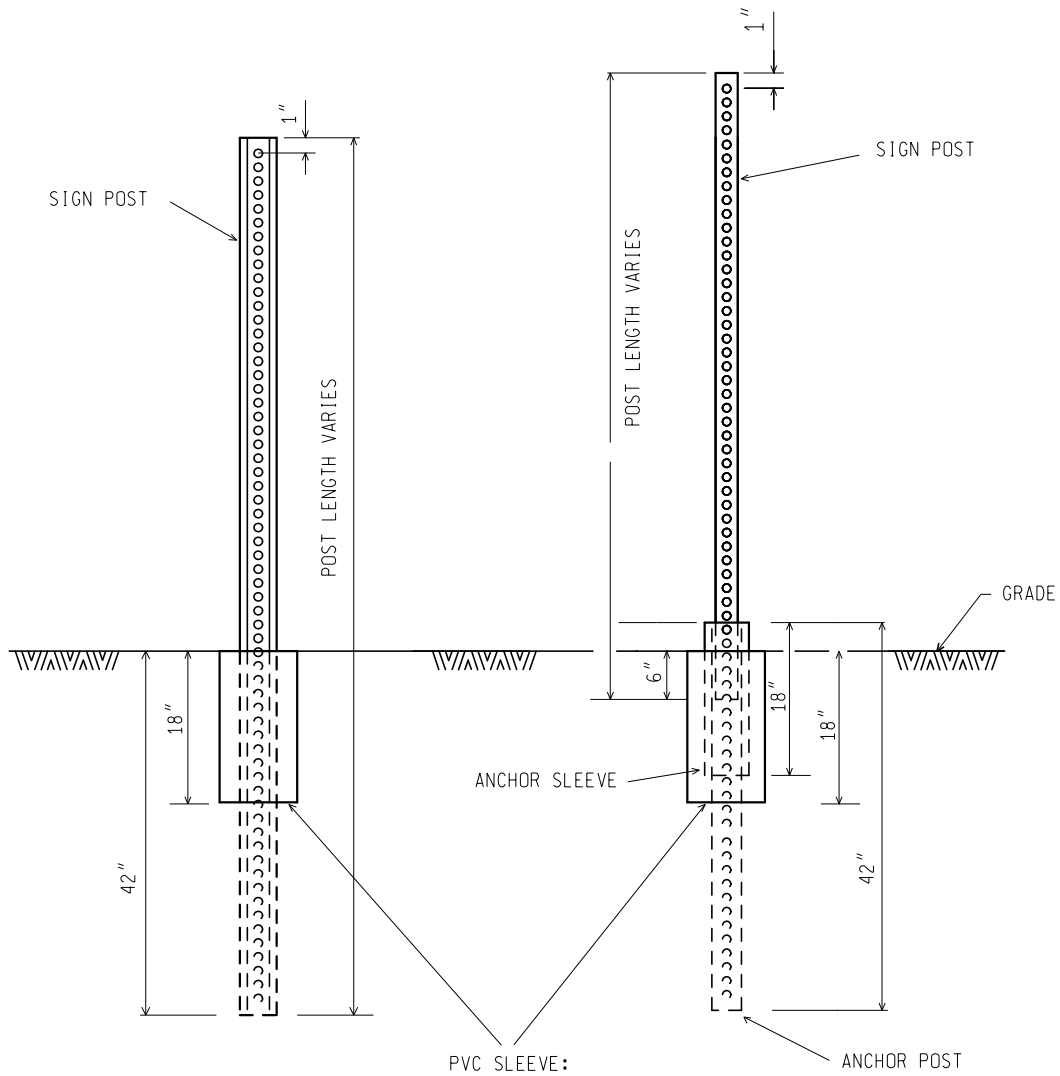
SQUARE TUBULAR STEEL POST

NOTE: SQUARE TUBULAR STEEL POSTS ARE PRIMARILY INTENDED FOR USE IN URBAN AREAS, CHANNELIZATION ISLANDS AND OTHER SPECIFIED LOCATIONS REQUIRING MULTIPLE SIGN PANEL INSTALLATIONS.

NOT TO SCALE

MICHIGAN DEPARTMENT OF TRANSPORTATION BUREAU OF DEVELOPMENT STANDARD PLAN	01/16/20 F.H.W.A. APPROVAL	8/24/20 PLAN DATE	SIGN-200-E	SHEET 2 OF 4
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NOTE: THE ORIGINAL SIGNED COPY IS KEPT ON FILE AT THE MICHIGAN DEPARTMENT OF TRANSPORTATION.



PVC SLEEVE:

TUBE SIZE = 5" DIAMETER
 PVC OR OTHER MATERIAL
 BACKFILL WITH SAND &
 SEAL WITH SILICONE SEALER
 USED FOR BOTH 3 lbs &
 SQUARE TUBULAR STEEL POSTS

STEEL POST THROUGH CONCRETE

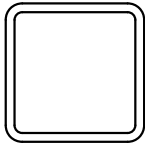
NOT TO SCALE

MICHIGAN DEPARTMENT OF TRANSPORTATION BUREAU OF DEVELOPMENT STANDARD PLAN	01/16/20 F.H.W.A. APPROVAL	8/24/20 PLAN DATE	SIGN-200-E	SHEET 3 OF 4
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NOTE: THE ORIGINAL SIGNED COPY IS KEPT ON FILE AT THE MICHIGAN DEPARTMENT OF TRANSPORTATION.

TABLE 1

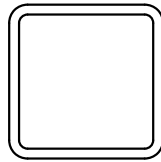
ELEMENTS OF SECTION



2" x 2"

SECTION PROPERTIES

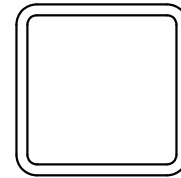
A = 0.5090 in²
 I = 0.372 in⁴
 S = 0.372 in³
 r = 0.794 in



2 1/4 " x 2 1/4 "

SECTION PROPERTIES

A = 0.695 in²
 I = 0.561 in⁴
 S = 0.499 in³
 r = 0.898 in



2 1/2 " x 2 1/2 "

SECTION PROPERTIES

A = 0.803 in²
 I = 0.804 in⁴
 S = 0.643 in³
 r = 1.001 in

TOLERANCES

- | | |
|---|-------------------------|
| 1. OUTSIDE TOLERANCE FOR ALL SIDES AT CORNERS | ± 0.01 in |
| 2. WALL THICKNESS | -0.008 in TO + 0.011 in |
| 3. CONVEXITY AND CONCAVITY | ± 0.01 in |
| 4. SQUARENESS OF SIDES | ± 0.14 in |
| 5. TWIST PERMISSIBLE IN 3 in LENGTH | 0.062 in |
| 6. STRAIGHTNESS | 1/16 in IN 3 ft |
| 7. CORNER RADIUS | 5/32 in ± 1/32 in |
| 8. LENGTH | ± 1/4 in |

NOTES:

1. POST SHALL BE GALVANIZED EXCEPT ON TEMPORARY CONSTRUCTION SIGNS.
2. BOLTS & NYLON INSERT LOCK NUTS SHALL BE STAINLESS STEEL, PER CURRENT MDOT STANDARD SPECIFICATIONS FOR CONSTRUCTION.
3. SEE SIGN-740-SERIES-ENG FOR SIGN CONNECTION.
4. POSTS SHALL BE MARKED AT THE 42" POINT WITH SPRAY PAINT PRIOR TO DRIVING TO INDICATE MINIMUM EMBEDMENT.
5. POSTS WILL BE MEASURED FOR PAYMENT TO THE NEAREST COMMERCIAL LENGTH.
6. SELF-ALIGNING STEEL SIGN REINFORCING PLATE (SEE SIGN-740-SERIES-ENG) REQUIRED FOR USE WITH ALL TYPE III (SHEET STEEL OR ALUMINUM) SIGNS INSTALLED ON 3 lbs. SELF-ALIGNING STEEL SIGN REINFORCING PLATE IS NOT TO BE USED WITH SQUARE TUBULAR STEEL POSTS.
7. MAXIMUM SIGN SQUARE FOOT FOR 1-3 LB. POST SHALL BE 8 SQUARE FEET.
8. MAXIMUM SIGN SQUARE FOOT FOR 2-3 LB. POST SHALL BE EQUAL TO THE 2-3 LB. STEEL POST PER SIGN-150-SERIES.
9. STEEL POSTS PLACED IN CONCRETE SHALL UTILIZE A 5" DIAMETER SLEEVE AT MINIMUM.

NOT TO SCALE

MICHIGAN DEPARTMENT OF TRANSPORTATION
 BUREAU OF DEVELOPMENT STANDARD PLAN

01/16/20
 F.H.W.A. APPROVAL

8/24/20
 PLAN DATE

SIGN-200-E

SHEET
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