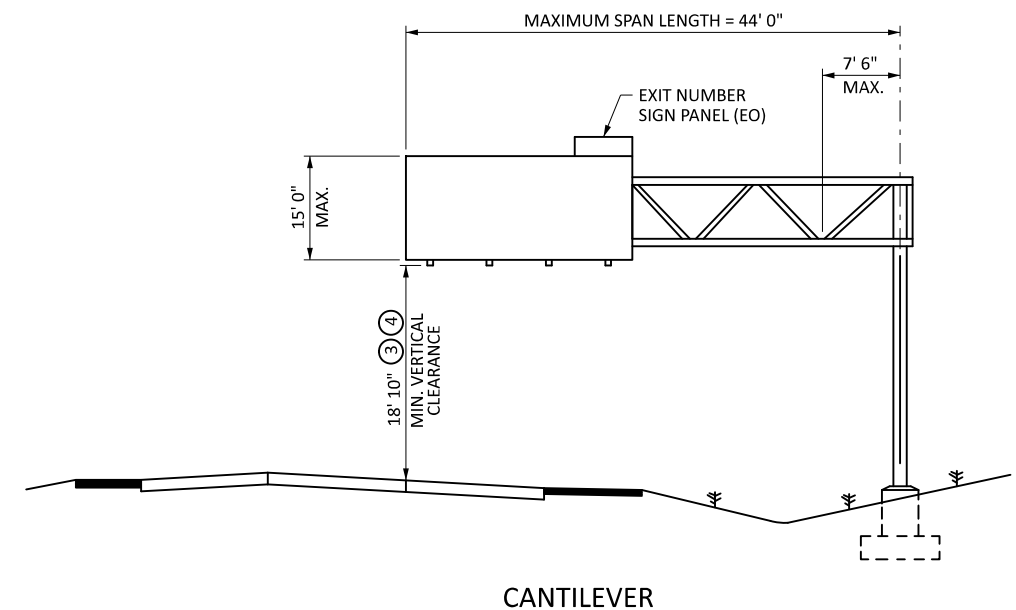
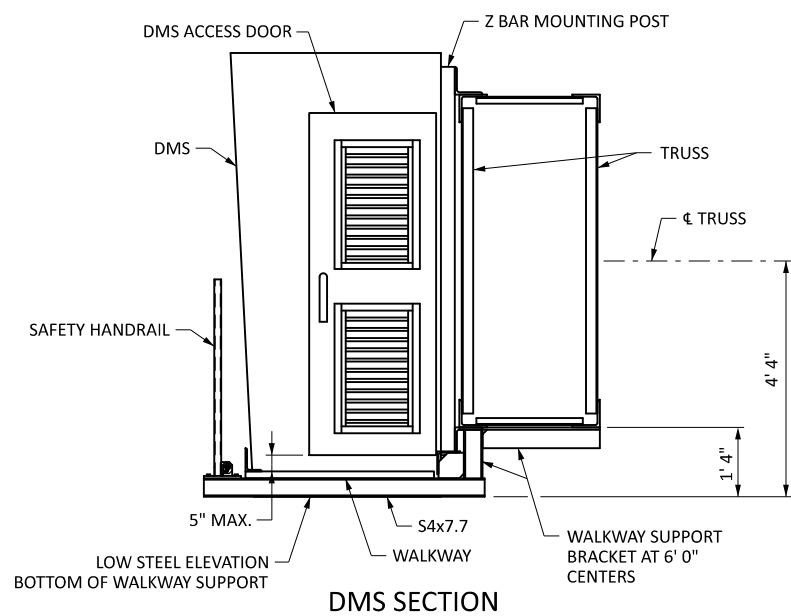


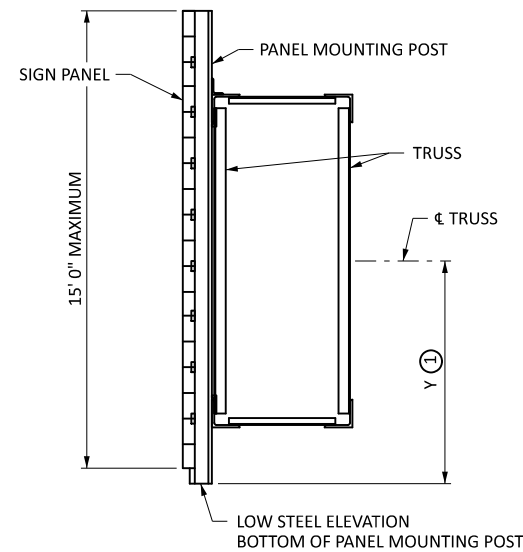
SIMPLE SPAN



CANTILEVER



DMS SECTION



STATIC SIGN SECTION

SIGN HEIGHT	Y (1)
6' 6"	3' 0"
7' 0"	3' 3"
7' 6"	3' 6"
8' 0"	3' 9"
8' 6"	4' 0"
9' 0"	4' 3"
9' 6"	4' 6"
10' 0"	4' 9"
10' 6"	5' 0"
11' 0"	5' 3"
11' 6"	5' 6"
12' 0"	5' 9"
12' 6"	6' 0"
13' 0"	6' 3"
13' 6"	6' 6"
14' 0"	6' 9"
14' 6"	7' 0"
15' 0"	7' 3"

DESIGN CRITERIA:

THE DETAILS SHOWN ON THESE STANDARD PLANS ARE BASED ON THE AASHTO "LRFD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES, AND TRAFFIC SIGNALS," FIRST EDITION, 2015, 2017, 2018, AND 2019 INTERIM REVISIONS.

STRENGTH LIMIT WIND LOADING OF 120 MPH
SERVICE LIMIT WIND LOADING OF 76 MPH

MAINTAIN AT LEAST 1' 0" BETWEEN DMS AND STATIC PANEL IN THE SAME DIRECTION OF TRAFFIC.

MATERIAL PROPERTIES:

PROVIDE STRUCTURAL CONCRETE (3G52) PER SPEC. 2461 FOR SPREAD FOOTINGS AND/OR DRILLED SHAFTS.

PROVIDE DEFORMED BILLET BARS PER AASHTO M 31, GRADE 60 (SPEC. 2472 AND SPEC. 3301) FOR FOUNDATION REINFORCEMENT. PROVIDE EPOXY COATED BARS FOR PEDESTAL REINFORCING BARS.

ALL REINFORCEMENT IS IN ENGLISH DESIGNATIONS.

STRUCTURAL STEEL (EXCEPT POST, TUBES)- SPEC. 3306
STRUCTURAL STEEL PIPE POST- SPEC. 3362, ASTM A500 GRADE B (F_y = 42 ksi) OR GREATER API 5L, GRADES B, X42, X46, X52, X56, X60, X65

STRUCTURAL TUBE----- SPEC. 3361, TYPE A OR TYPE B, GRADE B (F = 46 ksi) QR GREATER

HIGH STRENGTH BOLTS----- SPEC. 3391.2B

ANCHOR RODS----- SPEC. 3385 TYPE B

CASTINGS----- SPEC. 3322

REINFORCEMENT

BARS----- SPEC. 3301

SPIRAL----- SPEC. 3305

WALKWAY GRATING----- FEDERAL SPECIFICATIONS RR-G-661b, TYPE 1, STEEL

DEMONSTRATE THAT THE POST MATERIAL MEETS THE REQUIREMENTS OF ONE OF THE ABOVE CITED SPECIFICATIONS AND THE MINIMUM YIELD STRENGTH.

FINISH:

WITH THE EXCEPTION OF REINFORCEMENT BARS, THE LOWER PORTIONS OF ANCHOR RODS, AND ALUMINUM AND OTHER NON-FERROUS INCIDENTALS, GALVANIZE COMPONENTS AFTER FABRICATION IN ACCORDANCE WITH SPEC. 3392 OR SPEC. 3394 AS APPLICABLE. BEARING SURFACES MUST BE SMOOTH.

FABRICATION:

FABRICATE STRUCTURAL METALS IN ACCORDANCE WITH SPEC. 2471, SPEC. 2564, AND THE APPLICABLE SPECIAL PROVISIONS. ALL WELDING TO BE CONTINUOUS. ALL CONTACT SURFACES MUST BE COMPLETELY SEALED.

INSPECTION:

PROVIDE INSPECTION BEFORE AND AFTER GALVANIZING PER SPEC. 1511 AND 2471.

SPECIFIC NOTES:

- ① DIMENSION Y IS NOT CONSTANT AND IS BASED ON THE TALLEST SIGN PANEL. EXCEPT WHEN STATIC SIGN PANEL(S) AND DMS ARE MOUNTED ON THE SAME SPAN DIRECTION, DIMENSION Y SHALL BE 3' 3".
- ② MEASURE MINIMUM CLEARANCE FROM THE HIGHEST ELEVATION OF THE TRAVELED WAY OR SHOULDER, OR IF BARRIER CURBS ARE USED, THE HIGHEST ELEVATION BETWEEN CURB LINES TO THE LOWEST LOW STEEL ELEVATION.
- ③ 18' 10" MINIMUM VERTICAL CLEARANCE INCLUDES ALLOWANCE FOR 16" OF FUTURE OVERLAYS OR OTHER CHANGES TO ROADWAY ELEVATIONS. IF ADDITIONAL CHANGES ARE EXPECTED, ADJUST MINIMUM CLEARANCE ACCORDINGLY.
- ④ MEASURE MINIMUM CLEARANCE FROM THE LOW STEEL ELEVATION OF THE TALLEST PANEL TO THE HIGHPOINT ELEVATION OF TRAVELED WAY OR SHOULDER BENEATH THE STRUCTURE.

LEAD EXPERT OFFICE
EDWARD LUTGEN
OFFICE DIRECTOR
BRIDGE OFFICE

STANDARD OVERHEAD SIGN STRUCTURES - DESIGN D
GENERAL ELEVATIONS, SECTIONS, AND NOTES

APPROVED: 06-04-2024
REVISED:

THOMAS STYRBICKI
STATE DESIGN ENGINEER

STANDARD PLAN
5-297.761

1 OF 1



STANDARD PLAN

STATE PROJ. NO.

SHEET NO.

TRUNK HWY.

TOTAL SHEETS