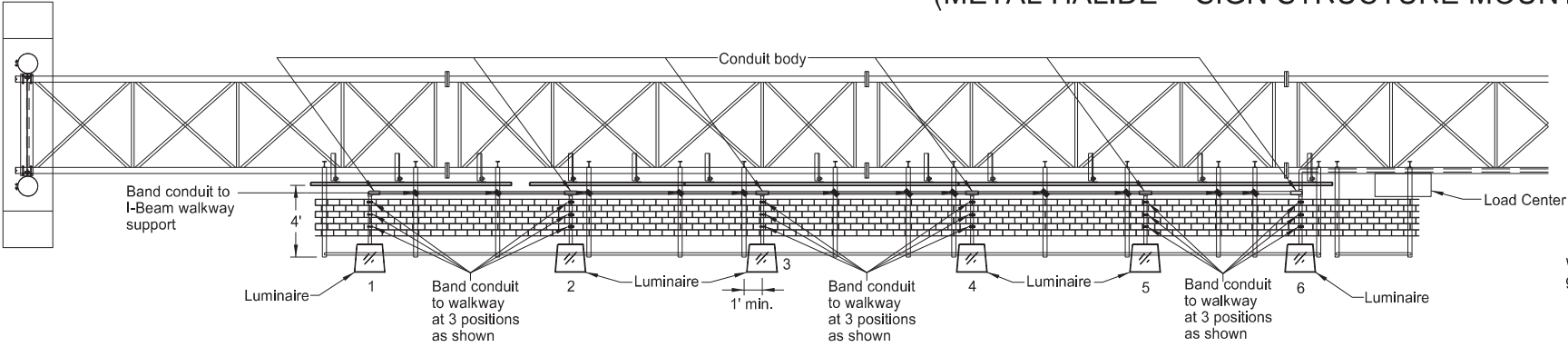
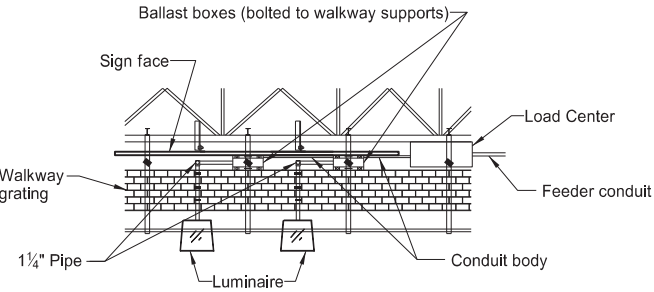


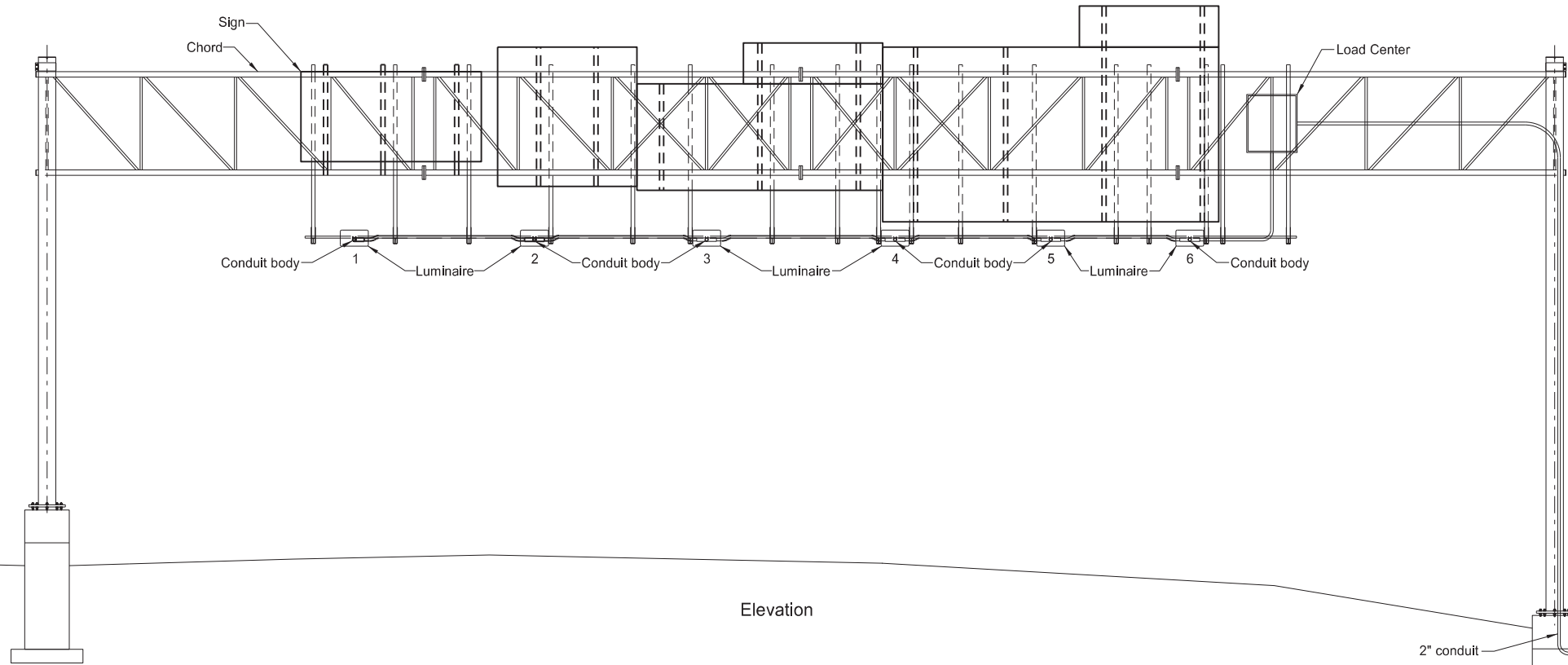
OVERHEAD SIGN LIGHTING DETAILS
(METAL HALIDE -- SIGN STRUCTURE MOUNTED)



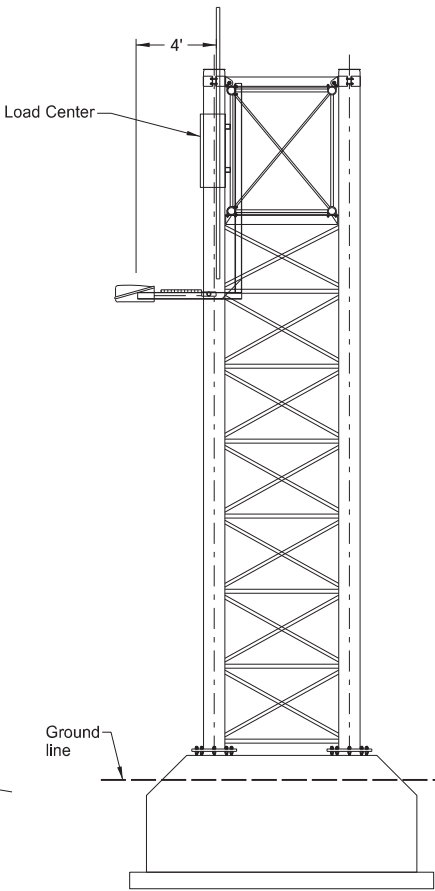
Plan



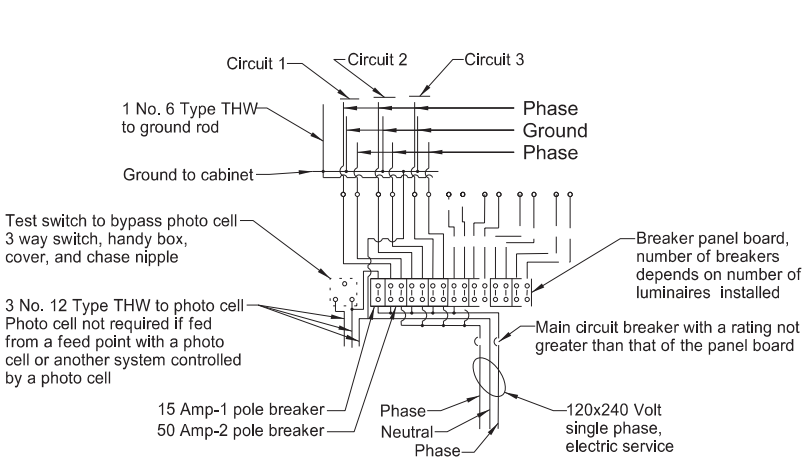
Ballast Box Detail



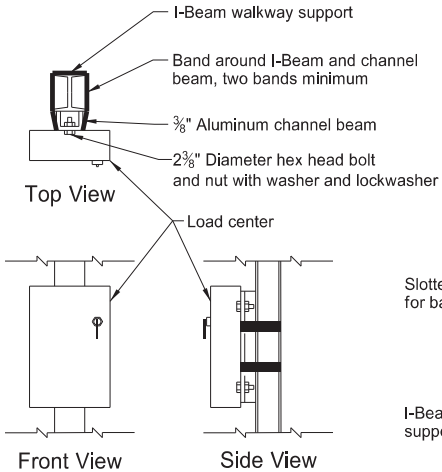
Elevation



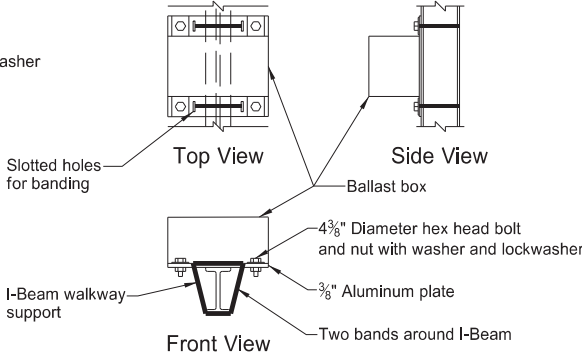
End View



Load Center Detail

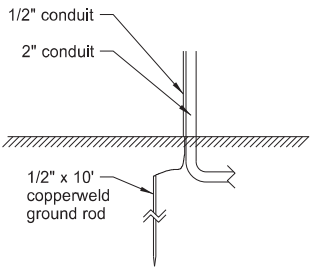


Load Center Mounting Detail



Ballast Box Mounting Detail

Note: Load center and feeder conduit not shown for clarity



Ground Rod Detail

NOTES:

Conduit: Attach conduit to sign structure using steel banding and/or conduit hangers. See sign lighting layout sheet(s) for feeder conduit layout.

Banding: Use 3/4" width stainless steel with stainless steel buckles for banding.

Load Center: Provide load center of sufficient size to accommodate the required wiring, equipment, and feed conduit. See sign lighting layout sheet(s) for size of conduit.

Ballast: Mount a separate ballast in each luminaire or ballast box bolted to the walkway support. Do not splice conductor between luminaire and ballast.

Luminaires: Operate metal halide luminaires on 240 Volts unless shown otherwise on layout sheet(s). See sign lighting layout sheet(s) for number and location of luminaires.

Sign Structure Mounting: See layout sheet(s) for sign structure mounting details.

CONDUIT SIZES AND NUMBER OF CONDUCTORS

FROM LUMINAIRE TO LUMINAIRE	CONDUIT SIZE	NUMBER OF CONDUCTORS	
		FEEDER CONDUCTOR (No. 12 AWG)	GROUNDING CONDUCTOR (No. 12 THW)
1 - 2	1 1/4"	2	1
2 - 3	1 1/4"	4	1
3 - 4	1 1/4"	6	1
4 - 5	1 1/4"	8	1
5 - 6	1 1/4"	10	1
6 - 7	1 1/4"	12	1
7 - 8	1 1/4"	14	1
8 - 9	1 1/2"	16	1
9 - 10	1 1/2"	18	1
10 - 11	1 1/2"	20	1
11 - 12	2"	22	1
12 - 13	2"	24	1
13 - 14	2"	26	1

Install the number of luminaires shown in the plans, unless the appropriate shop drawings require a different number. Then install that number of luminaires.

Use conduit sizes shown in the conduit size table.

From the load center to the closest luminaire, use the size and number conduit and conductor shown as if running to the next sequential luminaire.

NORTH DAKOTA DEPARTMENT OF TRANSPORTATION	
10-15-13	
REVISIONS	
DATE	CHANGE
10-17-17	Updated to active voice.
8-28-19	New Design Engineer PE Stamp.
8-09-24	Electronic Stamp/Signature.



08/09/24