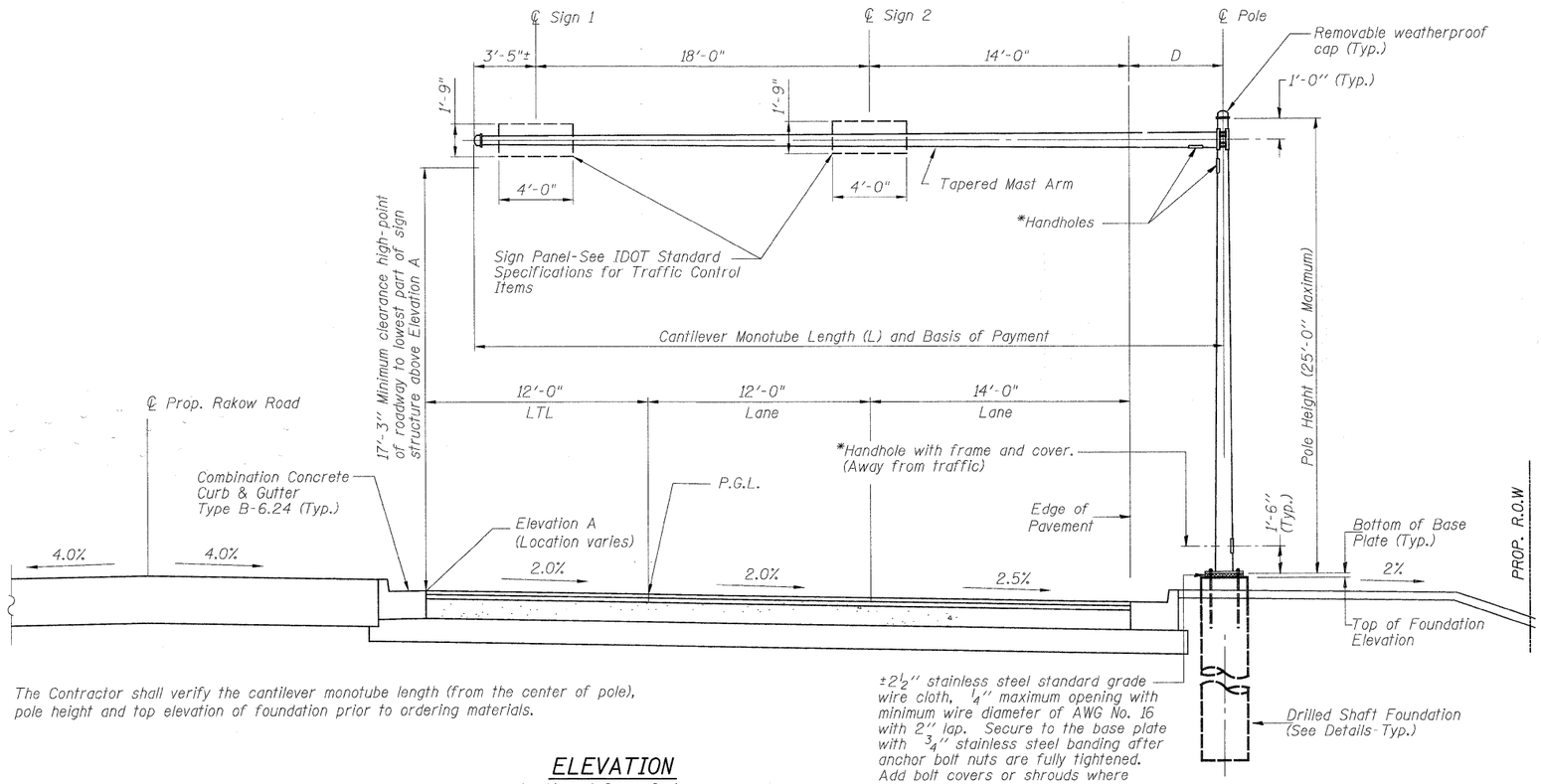

The Contractor shall verify the cantilever monotube length (from the center of pole), pole height and top elevation of foundation prior to ordering materials.

ELEVATION

Looking at face of signs.
Looking upstation for structures with signs both sides.

* Provide Handhole as needed.

GENERAL NOTES

DESIGN: Current (at time of letting) AASHTO Standard Specifications for Structural Supports for Highway Signs, Luminaires and Traffic Signals.

CONSTRUCTION: Current (at time of letting) Illinois Department of Transportation Standard Specifications for Road and Bridge Construction, Supplemental Specifications and Recurring Special Provisions. ("Standard Specifications") All references to "Mast Arm Assembly and Pole" are applicable, unless otherwise noted.

WELDING: All welds to be continuous unless otherwise shown. All welding to be done in accordance with current AWS D1.1 Structural Welding Code and the Standard Specifications.

ANCHOR RODS: Shall meet Charpy V-notch (CVN) energy of 15 lb-ft at 40° F. No welding shall be permitted on rods.

FASTENERS: All connection bolts shall be High Strength Bolts M164, Galvanize M232 (A153), Type 3, or stainless steel heavy hex conforming to ASTM A193, Grade B8 or B8M, Class 1. U-bolts shall be produced from ASTM A276 Type 304, 304L, 316 or 316L, Condition A, cold finished, or an equivalent material acceptable to the Engineer. Nuts for stainless steel bolts shall be stainless steel conforming to ASTM A194, Grade 8 (AISI Type 304) or Grade 8F (AISI Type 303). All nuts shall be "locknuts" with nylon or steel inserts and semifinished hexagonal heads equivalent to the finished heavy hex series of the American National Standard. Washers for stainless steel bolts shall be stainless steel conforming to ASTM A240, Type 302 or 304.

REINFORCEMENT BARS: Reinforcement Bars designated (E) shall be epoxy coated in accordance with the Standard Specifications. Cost of Reinforcement Bars included with Drilled Shaft Concrete Foundations.

Method of Measurement: Overhead Sign Structure- Cantilever Monotube will be measured for payment in feet. Measurement will be the total length of the cantilever monotube as installed. Measurements will be made to the nearest 0.1 ft.

Basis of Payment: This work will be paid for at the contract unit price per foot for Overhead Sign Structure- Cantilever Monotube.

Structure Number	Station	Cantilever Monotube Length (L)	Elevation A	Dimension D	Total Sign/Signal Area	Foundation					Class SI Concrete (Cu. Yds.)
						Elevation Top	Elev. Bottom	A	B	F	
1C056L336R03.03	160+00.00	40'-6"	889.41	5'-1"	14.0 SQ.FT	889.91	879.91	1'-0"	9'-0"	10'-0"	1.9

SIGN STRUCTURE DATA TABLE

NUMBER	REVISION	DATE

BILL OF MATERIAL

ITEM	UNIT	TOTAL
DRILLED SHAFT CONCRETE FOUNDATIONS	Cu. Yds.	1.9
OVERHEAD SIGN STRUCTURE- CANTILEVER MONOTUBE	Foot	40.5

PATRICK ENGINEERING INC. LISLE, ILLINOIS

USER NAME = Rdwy_Lisle	DESIGNED - A. Yarglooglu	REVISED -	
PLOT CONFIG= PDF(Grey_Large).plt	DRAWN - A. Yarglooglu	REVISED -	
PLOT SCALE = 1:4	CHECKED - R. DiGiulio	REVISED -	
PLOT DATE = 7/28/2010	DATE - 8/2/2010	REVISED -	

MCHENRY COUNTY DIVISION OF TRANSPORTATION

RAKOW ROAD FROM ACKMAN ROAD TO ILLINOIS ROUTE 31
OVERHEAD SIGN STRUCTURE- CANTILEVER MONOTUBE
STEEL MAST ARM ASSEMBLY AND POLE

SCALE: NONE | SHEET NO. STR 19 OF 22 | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0336	05-00308-00-WR	MCHENRY	606	421
		CONTRACT NO.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

Q:\MCDOT\20950_001\Drawings\STRUCT\FinalPlans\S19 Sign Structure1.dgn