NORTH CAROLINA STATE HIGHWAY — ANALYSIS OF HIGHWAY SIGN STRUCTURE — E73300

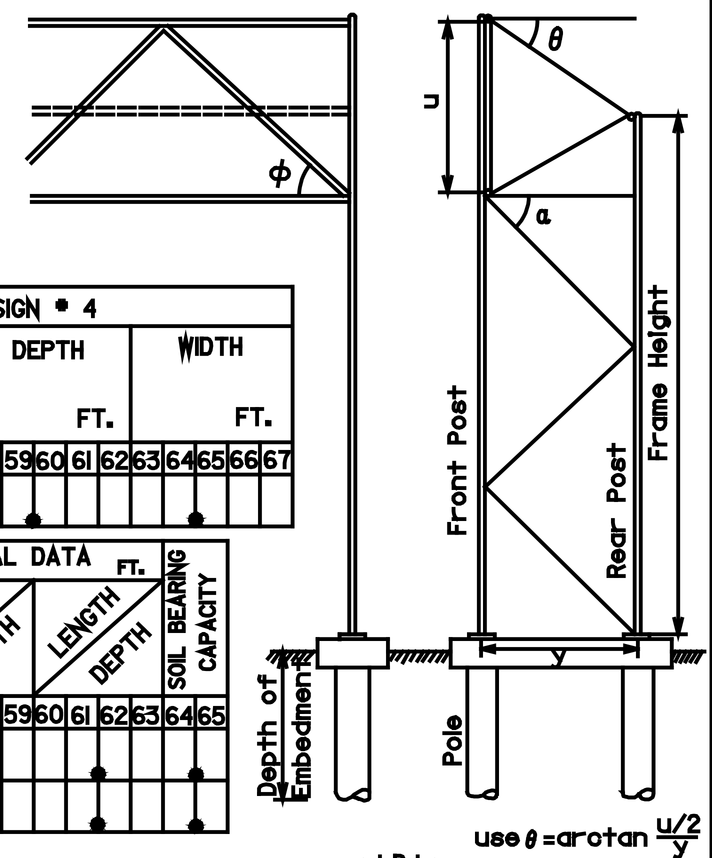
	RUN #		FREE STYLE HEADING		PROJECT NUMBER		NAME FIRST / LAST		PHONE		WORK ORDER		PROGRAM NO.
1	2–3	4	5–30	31	32–41	42	43–59	60	61–64	65	66–73	74	75–80
H													E 7 3 3 0 0

TRUSS	MATERIAL	SPAN LENGTH FT.	TRUSS DEPTH 'u' FT.	PROVIDED CAMBER	CHORDS: NO. OF CHORDS	CHORDS: OUTER DIAMETER IN.	CHORDS: WALL THICKNESS IN.	CHORDS: WEIGHT/FT OF ONE CORD	CHORDS: Fy	DIAGONALS: $\phi°$	DIAGONALS: $\theta°$	DIAGONALS: OUTER DIAMETER IN.	DIAGONALS: WALL THICKNESS IN.	DIAGONALS: WT/FT OF ONE DIAG.	DIAGONALS: Fy	WELD AT CHORD: AREA IN^2	WELD AT CHORD: Fw	FLANGE SPLICE: SPLICE PLATE: DIAM. OF BOLT CIRCLE	SPLICE PLATE: THICKNESS IN.	SPLICE PLATE: Fy	BOLTS: NO.	BOLTS: DIAM. IN.	BOLTS: Fa	WELDING: SIZE	WELDING: Fw
1	2	3–7	8–10	11–13	14	15–19	20–23	24–27	28–29	30–31	32–33	34–37	38–40	41–43	44–46	47–50	51–53	54–58	59–62	63–64	65	66–69	70–72	73–76	77–80
T																									

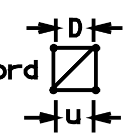
FRAME	SIDE	FRAME HEIGHT FT.	DIST. BET. ℄ OF POSTS "y" FT.	POSTS: NUMBER	POSTS: OUTER DIAMETER IN.	POSTS: WALL THICKNESS IN.	POSTS: WT/FT	POSTS: Fy	DIAGONALS: OUTER DIAMETER	DIAGONALS: WALL THICKNESS	DIAGONALS: WT/FT	DIAGONALS: $\alpha°$	DIAGONALS: Fy	WELD WITH POST: AREA IN^2	WELD WITH POST: Fw	SPECS 1968 OR 1975 (1975 IF BLANK)
1	2	3–7	8–12	13	14–18	19–22	23–26	27–28	29–33	34–37	38–41	42–43	44–45	46–50	51–53	54–57
F	L															
F																

SIGNS	WIND SPEED MPH	WT/FT² OF SIGN	NO. OF SIGNS	SIGN # 1: DIST. FROM ℄ TO LEFT SUPPORT	SIGN # 1: DEPTH FT.	SIGN # 1: WIDTH FT.	SIGN # 2: DIST. FROM ℄ TO LEFT SUPPORT	SIGN # 2: DEPTH FT.	SIGN # 2: WIDTH FT.	SIGN # 3: DIST. FROM ℄ TO LEFT SUPPORT	SIGN # 3: DEPTH FT.	SIGN # 3: WIDTH FT.	SIGN # 4: DIST. FROM ℄ TO LEFT SUPPORT	SIGN # 4: DEPTH FT.	SIGN # 4: WIDTH FT.
1	2–4	5–6	7	8–12	13–17	18–22	23–27	28–32	33–37	38–42	43–47	48–52	53–57	58–62	63–67
S															

BASE	SIDE	BASE PLATE: SIDE IN.	BASE PLATE: DIST. BETW. ANCH. BOLTS IN.	BASE PLATE: THICKNESS IN.	BASE PLATE: Fy	WELD WITH POST: SIZE	WELD WITH POST: Fw	ANCHOR BOLTS: TENSILE STRESS AREA IN^2	ANCHOR BOLTS: Fy	CAP OR SPREAD FOOTING DATA: WIDTH FT.	LENGTH FT.	DEPTH FT.	GL. TO FTNG. TOP FT.	UNIT WT OF SOIL K/FT^3	POLE OR PEDESTAL DATA FT.: DIAM / WIDTH	ENTER 0-0 / LENGTH	LENGTH / DEPTH	SOIL BEARING CAPACITY
1	2	3–7	8–12	13–16	17–18	19–23	24–26	27–30	31–32	33–36	37–40	41–44	45–48	49–51	52–55	56–59	60–63	64–65
B	L																	
B																		



for four-chord



T-card: col 2: enter 'S' for steel struct. and 'A' for alum.

F-card: col 2 in second F-card: Enter 'S' for right frame same as left frame. In this case; only fill out cols. 3-12. Otherwise enter 'R' and fill all the data

B-card: col 2 in second B-card: Enter 's' for right base data same as left base. In this case leave the rest of the second card blank. Otherwise enter 'R'

B-card: To bypass checking the stresses in any element leave blank the corresp. data.

For alum. structures:
Fy is used to designate the alloy used as follows:

For 6063-T6 Fy=63

For 6061-T6 or 6005-T5 { with 4043 filler Fy=60; other fillers Fy=61