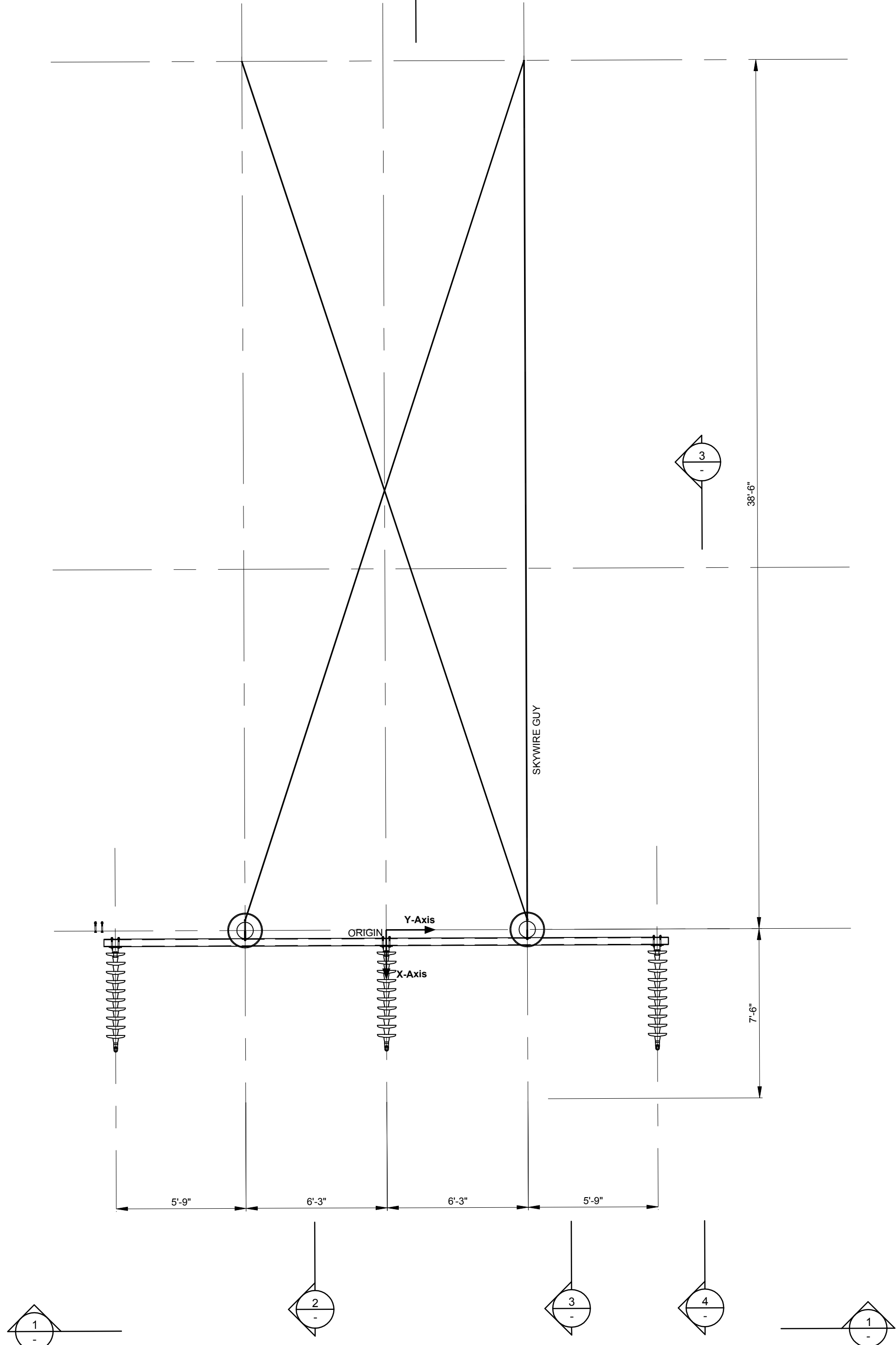
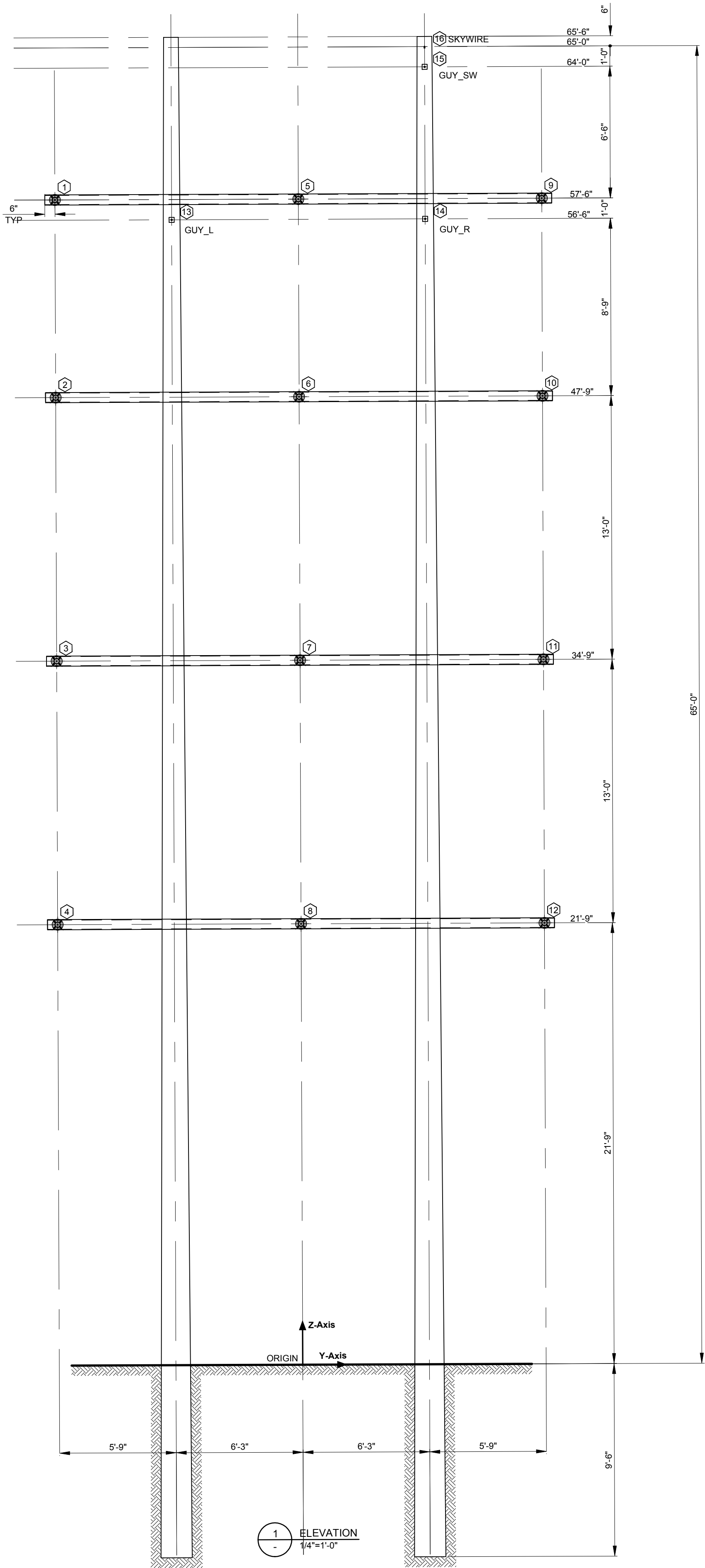


ELECTRICAL EQUIPMENT LOADING MATRIX								
MARK	DESCRIPTION	X	Y	Z	Fx	Fy	Fz	My
1	STRAIN INSULATOR	0'-10.5"+	-(12'-0")	57'-6"	1650	±118	-401.2	1204±
2	POST INSULATOR	0'-10.5"+	-(12'-0")	47'-9"	1650	±118	-553.5	1661±
3	POST INSULATOR	0'-10.5"+	-(12'-0")	34'-9"	1650	±118	-553.5	1661±
4	POST INSULATOR	0'-10.5"+	-(12'-0")	21'-9"	1650	±118	-553.5	1661±
5	STRAIN INSULATOR	0'-10.5"+	0	57'-6"	1650	±118	-401.2	1204±
6	POST INSULATOR	0'-10.5"+	0	47'-9"	1650	±118	-553.5	1661±
7	POST INSULATOR	0'-10.5"+	0	34'-9"	1650	±118	-553.5	1661±
8	POST INSULATOR	0'-10.5"+	0	21'-9"	1650	±118	-553.5	1661±
9	STRAIN INSULATOR	0'-10.5"+	12'-0"	57'-6"	1650	±118	-401.2	1204±
10	POST INSULATOR	0'-10.5"+	12'-0"	47'-9"	1650	±118	-553.5	1661±
11	POST INSULATOR	0'-10.5"+	12'-0"	34'-9"	1650	±118	-553.5	1661±
12	POST INSULATOR	0'-10.5"+	12'-0"	21'-9"	1650	±118	-553.5	1661±
13	GUY L	-(5'-5")	-(6'-3")	56'-6"	6430	-	-	-
14	GUY R	-(5'-5")	6'-3"	56'-6"	6090	-	-	-
15	GUY SW	-(5'-5")	6'-3"	64'-0"	5900	-	-	-
16	SKYWIRE	5'-5"	6'-3"	65'-0"	2200	-	-	-

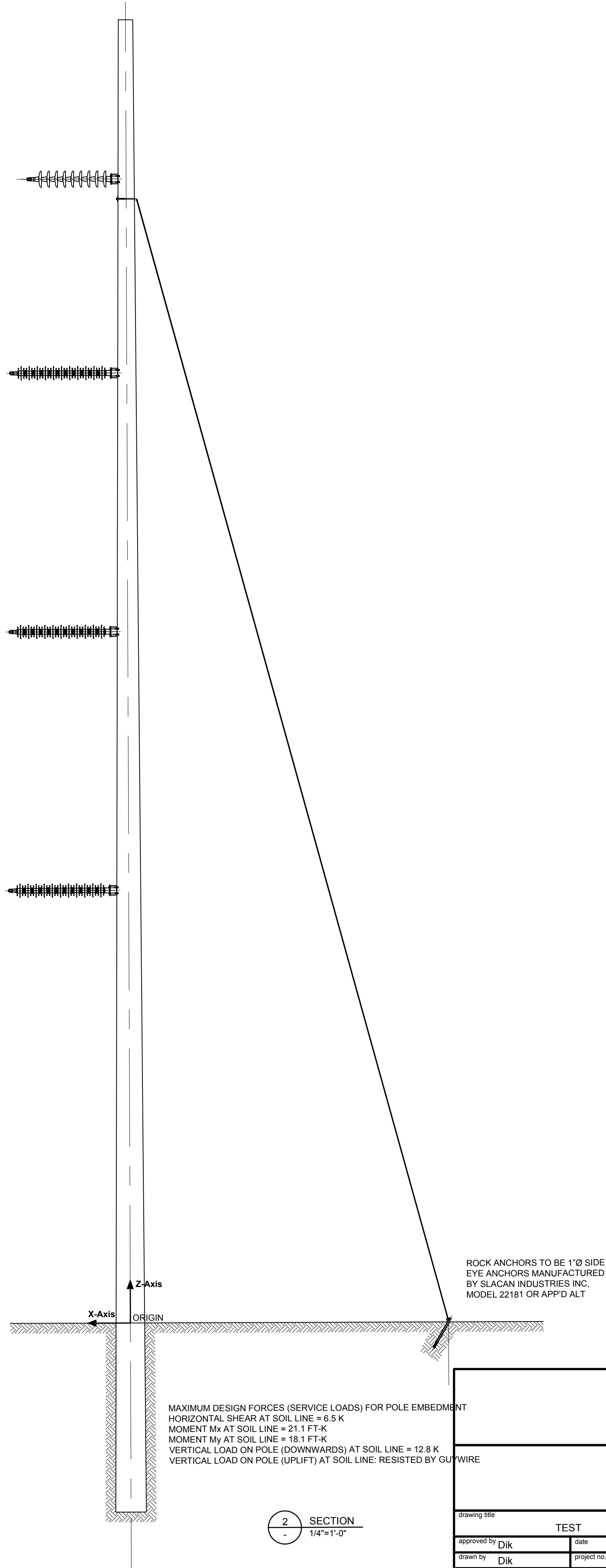
NOTE:
⑫ DENOTES ELECTRICAL EQUIPMENT MARK NUMBER
X, Y, AND Z DENOTE THE COORDINATE LOCATION FROM THE ORIGIN (FEET AND INCHES)
FORCES ARE SERVICE LOADS
±(LOAD) MEANS A FORCE OF THAT MAGNITUDE IN EITHER AXIS DIRECTION
(LOAD)± MEANS A LOAD IS APPROXIMATE
FORCES ARE APPLIED AT COORDINATE LOCATIONS
FORCES ARE DENOTED IN POUNDS FORCE AND MOMENTS ARE IN FT-POUNDS UN
Fx DENOTES A HORIZONTAL FORCE IN THE X-AXIS DIRECTION
GUYWIRE AND SKYWIRE FORCES ARE +VE AND DENOTE TENSION IN THE LONGITUDINAL DIRECTION
Fy DENOTES A HORIZONTAL FORCE IN THE Y-AXIS DIRECTION
Fz DENOTES A VERTICAL FORCE IN THE Z-AXIS DIRECTION (UPWARDS +ve)
Mx DENOTES A MOMENT ABOUT THE X-AXIS
My DENOTES A MOMENT ABOUT Y-AXIS



PLAN OF SWITCH YARD POLES
SCALE: 1/4"=1'-0"
SERVICE DESIGN LOADS:
REFER TO PROJECT NOTES
REFER TO DWG S01 FOR PROJECT NOTES



ELEVATION
1/4"=1'-0"



MAXIMUM DESIGN FORCES (SERVICE LOADS) FOR POLE EMBEDMENT
HORIZONTAL SHEAR AT SOIL LINE = 6.5 K
MOMENT Mx AT SOIL LINE = 21.1 FT-K
MOMENT My AT SOIL LINE = 18.1 FT-K
VERTICAL LOAD ON POLE (DOWNWARDS) AT SOIL LINE = 12.8 K
VERTICAL LOAD ON POLE (UPLIFT) AT SOIL LINE: RESISTED BY GUYWIRE

ROCK ANCHORS TO BE 1"Ø SIDE
EYE ANCHORS MANUFACTURED
BY SLACAN INDUSTRIES INC,
MODEL 22181 OR APPD ALT

Drawing Title			
TEST			
approved by	Djk	date	18-09-20
drawn by	Djk	project no.	
design by	Djk	scale	1
drawing no.	12345_S-01	file no.	D
		rev	00