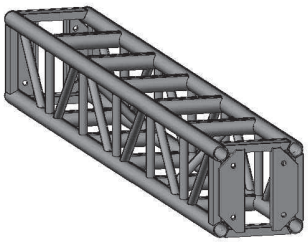
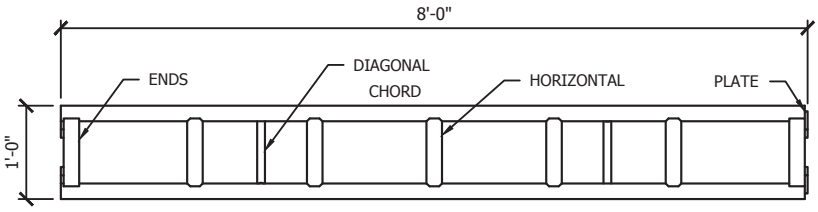
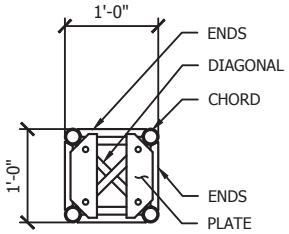


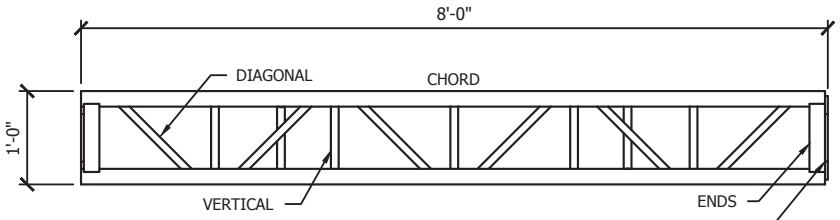
3D VIEW



TOP VIEW



END VIEW



SIDE VIEW

TYLER TRUSS - 12"x12"x96" LIGHT DUTY TRUSS w/ END PLATES

TRUSS SPAN	UNIFORMLY DISTRIBUTED LOAD		CENTER POINT LOAD		THIRD POINT LOAD		QUARTER POINT LOAD	
	LOAD	DEFLECTION	LOAD	DEFLECTION	LOAD	DEFLECTION	LOAD	DEFLECTION
8'-0"	408 lb/ft	0.093 in	1,690 lbs	0.088 in	1,145 lbs	0.093 in	940 lbs	0.088 in
16'-0"	153 lb/ft	0.389 in	1,080 lbs	0.290 in	807 lbs	0.350 in	637 lbs	0.390 in
24'-0"	73 lb/ft	0.922 in	782 lbs	0.672 in	510 lbs	0.731 in	425 lbs	0.893 in
32'-0"	38 lb/ft	1.683 in	565 lbs	1.250 in	416 lbs	1.564 in	293 lbs	1.539 in
40'-0"	17 lb/ft	2.253 in	403 lbs	2.066 in	260 lbs	2.27 in	178 lbs	2.27 in

PARTS LIST

DIAGONALS	1"ϕx1/8" TUBE
VERTICALS	1"ϕx1/8" TUBE
HORIZONTALS	2"ϕx1/8" TUBE
CHORDS	2"ϕx1/8" TUBE
ENDS	RT2x1x1/8"
PLATES	PLATE 3/8"

NOTES:
1. ALL ALUMINUM IS 6005A-T61

TABLE USAGE NOTES:
1. THE TRUSS IS SUPPORTING VERTICAL LOADS ONLY, I.E. THE TRUSS LADDERS ARE ORIENTED VERTICALLY AND NO LATERAL LOADS ARE APPLIED TO THE TRUSS.
2. THE TRUSS IS ANALYZED AS A SIMPLE SPAN BEAM. TRUSS SUPPORT POINTS ARE LOCATED AT TRUSS PANEL POINTS.
3. THE TRUSS WILL BE ANALYZED FOR STATIC LOADS ONLY.
4. ALL LOADS ARE APPLIED AT THE CENTROID OF THE TRUSS BETWEEN THE TWO LADDER TRUSSES BELOW THE TRUSS.
5. ALL LOADS ARE APPLIED AT THE PANEL POINTS OF THE TRUSS AS TO NOT INDUCE LOCAL BENDING STRESSES IN THE CHORDS.
6. SELFWEIGHT HAS BEEN CONSIDERED.
7. MAXIMUM DEFLECTION BASED ON SPAN/180
8. ALLOWABLE LOADS BASED ON 2010 ALUMINUM DESIGN MANUAL9) ALL CAPACITIES ARE REDUCED BY 0.85 PER ANSI E1.2-2012 FOR REPETIVE USE MEMBERS.

12"x12" LIGHT DUTY TRUSS

CLARK REDER ENGINEERING
4828 Business Center Way
Cincinnati, OH 45246
513 851 1223

TRUSS TABLE

DATE: 04/01/2014
CRE PROJECT NO: 13.413.18
DRAWN BY: JMR / TWL

ST1.4