

STRUCTURAL CALCULATIONS
 COLLEY POOLS 4953 CAMP ROAD
 TOWN OF HAMBURG, NY

FRONT WALL 20' HEADER

existing trusses:	4'-4.5" o/c			
span	54'			
loading roof design incl wind	33.3 lbs/ft ²			
Signage overhang				
dead load of stowage space	min 25lbs/ft ²			
combined loading	58.3 lbs/ft ²	total span +/-	54'-0"	
front wall loading (per lineal foot)	173.151	free span desired +/-	20.00	feet
assumed that loading is carried				
evenly by trusses and transferred		total loading	3463.02	
to the exterior wall in the same				
fashion.		bending moment (ft-lb)	432.88	

* NOTE (3) G 2.0E Microlam 1 3/4" x 9 1/4" provide the necessary section modulus and sufficient structural integrity to perform as a support header in this situation.

Follow manufacturers recommendation for the adequate and proper method of affixing the three beams together to form a uniform header by affixing utilizing 16d common nails as shown in drawing "Colley R-01 DETAILS".