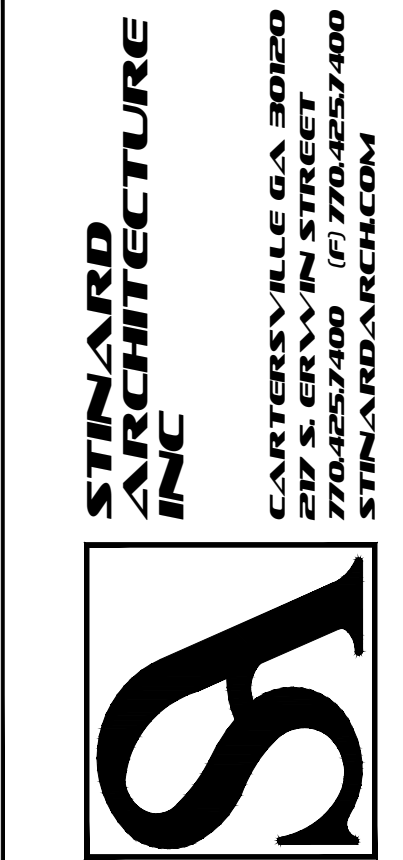




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Life Storage #230
Self Storage Phase II
1639 Route 22
Brewster, NY 10509

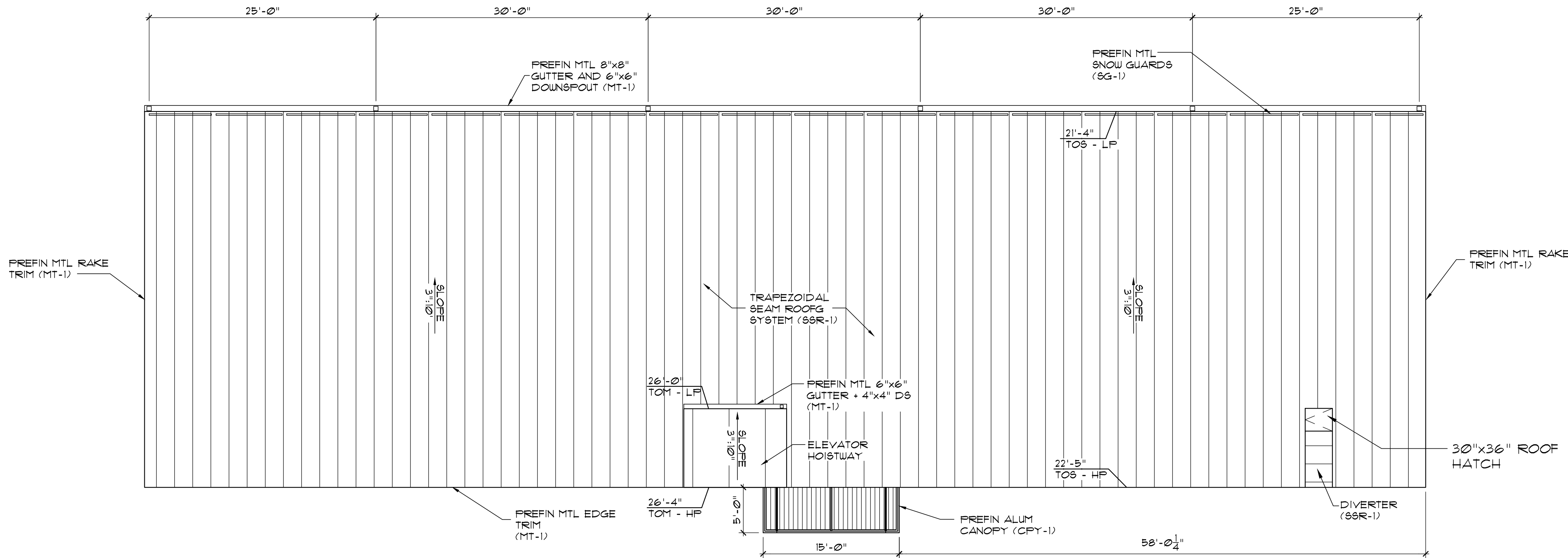


ISSUE: FOR CONSTRUCTION
REVISIONS:

PROJECT NUMBER	201941
DATE	6-5-20

SHEET NUMBER

A1.2



ROOF PLAN
SCALE: 1/8"=1'-0"

NOTES:
1. DESIGN ROOF STRUCTURE TO ACCOMMODATE FUTURE SOLAR PANELS, WITH A DEAD LOAD OF 5 POUNDS PER SQUARE FOOT

Life Storage #230 Brewster, NY Gutter and Downspout Sizing			
Building Parameters			
Blgd Depth at Gutter (ft)	42'	Length	42'
Gutter Length (ft)	30		
Gutter Width (in)	8		
Gutter Depth (in)	8		
DS Width (in)	6		
DS Depth (in)	6		
2015 IBC Plumbing Code 1106			
100 Year Hourly Rainfall Rate (in per hr) F1106.1	3		
CF per Hr per DS or Gutter Length	315		
GPH per DS or Gutter Length	2357		
GPM per DS or Gutter Length	40		
Downspouts:			
Max GPM Capacity (T 1106.2)	538	OK	
Gutters:			
Max GPM Capacity @ 1/16" per ft (T 1106.2)	505	OK	
1993 SMACNA			
Slope Factor	1.00		
5 Minute Intensity (in per hr for 5 min)	6.7	10 Yr	100 Yr
Roof Area per DS Area (sf per si)	180.0	130.0	
Downspouts:			
DS Area (sq in)	36		
Max Roof Area per DS	6480	4680	
Actual Factored Roof Area per DS	1260	OK	OK
Check			
Rectangular Gutters (NIST Formula):			
Gutter Depth-to-Width "M"	1.0000		
M ^{1/4} x 7	1.0000		
L ^{1/3} x 28	1.4397		
1A ^{1/5} x 14	25.2524	28.28037	
Min Gutter Width "W" (in)	4.6244	5.1789	
Check	OK	OK	
Min Gutter Depth (in)	4.6244	5.1789	
Check	OK	OK	