

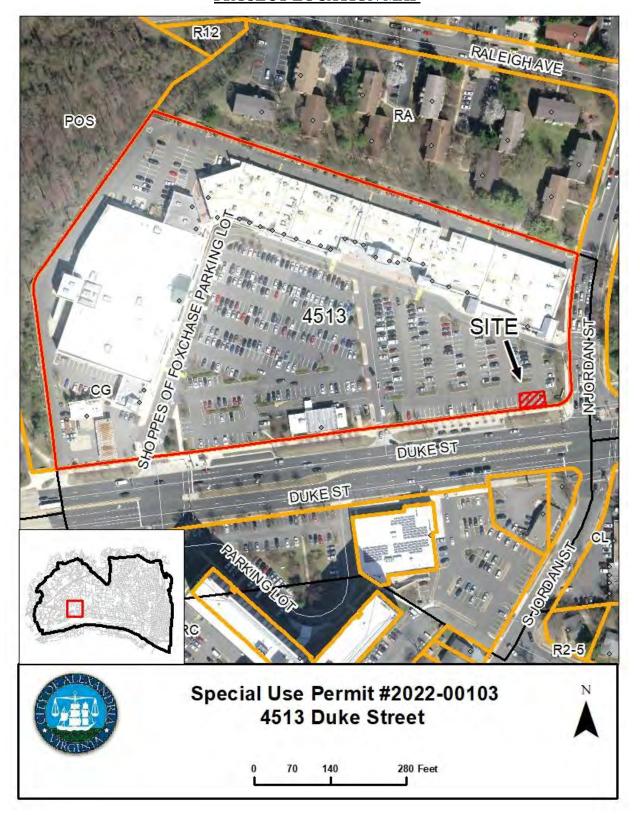
DOCKET ITEM #4 Special Use Permit # 2022-00103 4513 Duke Street – DHL Express Temporary Trailer

Application	General Data	
Public hearing and consideration of	Planning	February 7, 2023
a request for a special use permit to	Commission	
amend Condition #3 for the	Hearing:	
extension of a temporary trailer use	City Council	February 25, 2023
(amending SUP #2020-00105).	Hearing:	
Address:	Zone:	CG/Commercial General
4513 Duke Street		
Applicant: DHL Express	Small Area Plan:	Seminary Hill/Strawberry Hill

Staff Recommendation: APPROVAL subject to compliance with all applicable codes and ordinances and the recommended permit conditions found in Section III of this report.

Staff Reviewer: Patrick Silva, patrick.silva@alexandriava.gov

PROJECT LOCATION MAP



I. DISCUSSION

The applicant DHL Express requests Special Use Permit approval to extend the use term of a temporary trailer beyond March 12, 2023, amending Condition #3. The temporary trailer is located in the parking lot at Foxchase Shopping Center located at 4513 Duke Street.

SITE DESCRIPTION

The Foxchase Shopping Center, known as the Shoppes of Foxchase, are located on a 444,807 square foot lot at the corner of Duke Street and North Jordan Street. The lot is developed with a 583-space surface parking lot. The 151,000 gross square foot shopping center contains several retail, restaurant and personal service uses (Figure 1).

The Foxchase Apartments are located to the east and the north. An Aldi grocery store, Valvoline Oil Change and the 4600 Duke Street Condominiums are sited across Duke Street to the south. The Holmes Run Trail and the Duke Street Dog Park are located immediately to the west.



Figure 1: Trailer Location at the Shoppes of Foxchase

BACKGROUND

City Council approved Development Special Use Permit #2004-00025 for the construction of the shopping center and the parking lot. Pursuant to the City's Continuity of Government Ordinance related to the COVID-19 emergency, on December 8, 2020, City Council ratified the use of temporary trailers for package delivery businesses on private property in commercial zones, temporarily waiving the need for Special Use Permit approval until March 31, 2021. The City Council realized the community benefits of allowing package shipping and delivery services, in time for the winter holiday season, at outdoor locations which easily accommodate social distancing. DHL Express availed itself of the opportunity and installed a temporary trailer on the southwest corner of the shopping center parking lot. As the location proved popular, DHL Express

requested to maintain the temporary trailer past March 31, 2021 and, subsequently, submitted a Special Use Permit application (SUP2020-00105) requesting a two-year use of the temporary trailer which City Council approved on March 12, 2021. With the temporary trailer approval granted by Special Use Permit #2020-00105 nearing its March 12, 2023 expiration date, the applicant found the trailer's presence at the subject site still proved to be quite popular and wished to extend its ability to remain in its current location via approval of a Special Use Permit amendment. Thus, the applicant has submitted the Special Use Permit request which is the subject of this report.

PROPOSAL

The applicant requests Special Use Permit approval for a temporary trailer at 4513 Duke Street. The 140 square-foot trailer would remain at its existing site on three parking spaces at the southwest corner of the shopping center (Figures 2-3). One passenger van picks-up and delivers packages once a day and parks momentarily in an adjacent parking space. Express employees accommodate approximately 15 customers a day between 9 a.m. and 6 p.m., Monday through Friday, and between 11:00 a.m. and 6:00 p.m., Saturday.

Consistent with staff's standard approach for temporary trailer approval duration, the applicant proposes to operate the trailer for two more years, with an additional three years available with staff approval of an Administrative Special Use Permit. Up to two DHL employees would be

present during the hours the trailer is in operation.



Figure 2: Temporary trailer viewed from shopping center.



Figure 3: Temporary trailer viewed from Duke Street

PARKING

Section 8-200(A)(16)(a)(i) requires retail uses to provide a minimum of 0.25 spaces for every 1,000 square feet of area in the enhanced transit area. With 187 square feet of space the package shipping retail use would require one parking space. Given that parking requirements of two or less are waived according to Section 8-100(A)(9), the temporary trailer and the use do not have a parking requirement. Although the temporary trailer occupies three spaces in the 583-space shared parking lot, it would not infringe on other uses' parking requirements as the retail, restaurant and personal service uses at the shopping center collectively require no greater than 151 spaces based on the current standards of Section 8-200.

ZONING/MASTER PLAN DESIGNATION

Section 7-1101(C) of the Zoning Ordinance allows temporary trailers for nonresidential purposes with City Council approval of an Special Use Permit. Package shipping businesses are defined as retail uses. Pursuant to Section 4-402(K), retail uses up to 20,0000 gross square feet are permitted in the CG zone.

The Seminary Hill/Strawberry Hill Small Area Plan designates the lot for commercial use.

II. STAFF ANALYSIS

Staff recommends approval to extend the term of use for DHL Express's temporary trailer at 4513 Duke Street. The location has proven to be a successful package shipping destination as the company reported it represents one of the highest performing DHL Express pop-ups in the United States. The corner parking lot site has operated without parking or traffic flow impacts since it opened in December 2020. Pedestrians are provided with an area safe from parking lot traffic to carry out transactions at the service window. Staff has included Condition #2 to ensure that the temporary trailer remains at this location within the shopping center parking lot during the time that the Special Use Permit is active and the trailer is in operation. The standard time limit for temporary trailers recently approved through Special Use Permit is two years, with an additional three years available with staff approval of an Administrative Special Use Permit. Condition #3 states, therefore, that the Special Use Permit expires on February 25, 2025, with an opportunity to increase the term for an additional three years through an Administrative Special Use Permit.

Subject to the conditions contained in Section III of this report, staff recommends approval of the Special Use Permit request.

III. RECOMMENDED CONDITIONS

Staff recommends **approval** subject to compliance with all applicable codes and ordinances and the following conditions:

- 1. The Special Use Permit shall be granted to the applicant only or to any business or entity in which the applicant has a controlling interest. (P&Z) (SUP2020-00105)
- 2. <u>CONDITION AMENDED BY STAFF:</u> The location and specifications of the temporary trailer shall be substantially consistent as proposed in the application dated December 1November 22, 20220. (P&Z) (SUP2020-00105)
- 3. <u>CONDITION AMENDED BY STAFF:</u> The temporary trailer shall be permitted at the site for a two-year term which expires on <u>March 12February 25</u>, 202<u>5</u>3, <u>with an opportunity to increase the term for an additional three years through an Administrative Special Use Permit.</u> (P&Z) (<u>SUP2020-00105</u>)
- 4. The applicant shall conduct employee training sessions on an ongoing basis, including as part of any employee orientation, to discuss all SUP provisions and requirements. (P&Z) (SUP2020-00105)
- 5. Litter on the site and on public rights-of-way and spaces adjacent to or within 75 feet of the premises shall be picked up at least twice a day and at the close of business, and more often if necessary, to prevent an unsightly or unsanitary accumulation, on each day that the business is open to the public. (P&Z) (SUP2020-00105)
- 6. <u>CONDITION DELETED BY STAFF:</u> This use shall comply with the City noise ordinance. (P&Z) (SUP2020-00105)
- 7. CONDITION AMENDED BY STAFF: The Director of Planning and Zoning shall review the Special Use Permit one year after it has been operational and shall docket the matter for consideration by the Planning Commission and City Council if (a) there have been documented violations of the permit conditions which were not corrected immediately, constitute repeat violations or which create a direct and immediate adverse zoning impact on the surrounding community; (b) the Director has received a request from any person to docket the permit for review as a result of a complaint that rises to the level of a violation; or (c) the Director has determined that there are problems with the operation of the use and that new or revised conditions are needed. (P&Z) (SUP2020-00105)
- 8. **CONDITION ADDED BY STAFF:** The applicant shall require its employees who drive to use off-street parking. (T&ES)
- 9. CONDITION ADDED BY STAFF: The applicant shall encourage its employees to use public transportation to travel to and from work. The business shall contact Go Alex at goalex@alexandriava.gov for information on establishing an employee transportation

benefits program. (T&ES)

- 10. CONDITION ADDED BY STAFF: The applicant shall provide information about alternative forms of transportation to access the site, including but not limited to printed and electronic business promotional material, posting on the business website, and other similar methods. Contact Go Alex at goalex@alexandriava.gov for more information about available resources. (T&ES)
- 11. **CONDITION ADDED BY STAFF:** The applicant shall encourage patrons to park offstreet through the provision of information about nearby garages or lots in the business' advertising and website. (T&ES)

STAFF: Patrick Silva, Urban Planner

Ann Horowitz, Principal Planner

Tony LaColla, Division Chief, Land Use Services

<u>Staff Note:</u> In accordance with Section 11-506(c) of the Zoning Ordinance, construction or operation shall be commenced and diligently and substantially pursued within 18 months of the date of granting of a Special Use Permit by City Council or the Special Use Permit shall become void.

IV. CITY DEPARTMENT COMMENTS

Legend: C - code requirement R - recommendation S - suggestion F - finding

<u>Transportation & Environmental Services:</u>

- R-1 The applicant shall require its employees who drive to use off-street parking. (T&ES)
- R-2 The applicant shall encourage its employees to use public transportation to travel to and from work. The business shall contact Go Alex at goalex@alexandriava.gov for information on establishing an employee transportation benefits program. (T&ES)
- R-3 The applicant shall provide information about alternative forms of transportation to access the site, including but not limited to printed and electronic business promotional material, posting on the business website, and other similar methods. Contact Go Alex at goalex@alexandriava.gov for more information about available resources. (T&ES)
- R-4 The applicant shall encourage patrons to park off-street through the provision of information about nearby garages or lots in the business' advertising and website. (T&ES)

Code:

No comments or concerns.

Fire:

No comments or concerns.

Parks and Recreation:

No comments or concerns.

Police Department:

No comments received.

Archaeology:

No comments or concerns.



APPLICATION SPECIAL USE PERMIT

SP	ECIAL USE	PERMIT #	
PROPERTY LOCATION:	4513 Duke	St, Alexandria, VA, 2	2304
TAX MAP REFERENCE: 04	9.03-06-04		CG
APPLICANT:			ZONE: CG
Name: DHL Express US			
Address:	4513 D	uke St. Alexandria, V	Α
PROPOSED USE: Tempora	ary Trailler - to contin	nue providing domestic and inten	national shipping services
		a Special Use Permit in according Ordinance of the City of	r Alexandria, Virginia.
permission to the City photograph the building	having obtained of Alexandria s premises, land et	permission from the prop staff and Commission Mem c., connected with the applica	erty owner, hereby grants bers to visit, inspect, and tion.
THE UNDERSIGNED, permission to the City of	having obtained	d permission from the property of placard notice on the property on 4-1404(D)(7) of the 1992 Z	erty owner, hereby grants
accurate to the best of the materials, drawings or in representations made to the applicant unless the illustrative of general plant.	heir knowledge and Illustrations submit the Director of P	at all of the information here red to be furnished by the applicant is here the delief. The applicant is here the delief. The applicant is here the delief in support of this applicant in support of this applicant and Zoning on this appreciations are clearly seen that the control of the City of Alex Ordinance of the City of Alex	eby notified that any written ation and any specific oral oplication will be binding on tated to be non-binding or
Essete G Abebe			
int Name of Applicant or Agent		Signature	11/22/27 Date
210 S Pine Island Dri	ve,	4803810603	Date
ailing/Street Address		Telephone #	Fax#
	33324	essete.gebriel@	
y and State	Zip Code		address

Last updated: 11.11.2019

Email address

PR	OPERTY OWNER'S AUTHORIZATION		
As	the property owner of Shoppes at Foxchase		
	(Property Address)		_, I hereby
grai		stic and shipping services to the public	
	(use)		_ use as
des	cribed in this application.		
Nam	GRI Foxchase LLC, by First Washington Realty, Inc, its authroized agent by	Phone 301-907-7800	
	Please Print		
Addr	ess: 7200 Wisconsin Ave Ste, C/O First Washington Realty, Inc, Bethesda, MD 20814	Email: bdonovan@firstwas	sh.com
Sigr	nature: Kenneth Miller	Date: 11/22/2022	
2.	request which adequately justifies a waiver. [.] Required floor plan and plot/site plan attached. [.] Requesting a waiver. See attached written requestions. The applicant is the (check one):		
	[] Owner		
	[] Contract Purchaser		
	[] Lessee or		
	[] Other: of the sub	eject property.	
	the name, address and percent of ownership of any personant street of the entity is a corporation or partnership, in which case is sche Post AG - 100% of ownership - DHL Expression	ICIANTINI OCON OLIVIORE	in the applicant or owner, three percent.

Last updated: 10.21.2020

OWNERSHIP AND DISCLOSURE STATEMENT

Use additional sheets if necessary

Applicant. State the name, address and percent of ownership of any person or entity owning an interest in the applicant, unless the entity is a corporation or partnership, in which case identify each owner of more than three percent. The term ownership interest shall include any legal or equitable interest held at the time of the application in the real property which is the subject of the application.

Address	Percent of Ownership
Platz der Deutsche Post,	100%
53113, Bonn Germany	
	Platz der Deutsche Post,

2. Property. State the name, address and percent of ownership of any person or entity owning an interest in the property located at ______ 4513 Duke St. Alexandria. VA unless the entity is a corporation or partnership, in which case identify each owner of more than three (address). percent. The term ownership interest shall include any legal or equitable interest held at the time of the application in the real property which is the subject of the application.

Name 1.	Address	Percent of Ownership
GRI Foxchase LLC	7200 Wosconsin Ave Ste 600	100%
	Bethesda, MD 20814-4830	
	7200 Waccondo Ave Sile. CO First Washington Flority, Nr.: Bedween, MD 20014	

3. Business or Financial Relationships. Each person or entity indicated above in sections 1 and 2, with an ownership interest in the applicant or in the subject property are require to disclose any business or financial relationship, as defined by Section 11-350 of the Zoning Ordinance, existing at the time of this application, or within the12-month period prior to the submission of this application with any member of the Alexandria City Council, Planning Commission, Board of Zoning Appeals or either Boards of Architectural Review. All fields must be filled out completely. Do not leave blank. (If there are no relationships please indicated each person or entity and "None" in the corresponding fields).

For a list of current council, commission and board members, as well as the definition of business and financial relationship, click here.

Name of person or entity	Relationship as defined by Section 11-350 of the Zoning Ordinance	Member of the Approving Body (i.e. City Council, Planning Commission, etc.)
Deutsche Post AG	none	NA
GRI FoxChase LLC	none	NA
NOTE: Business or financial relation		

NOTE: Business or financial relationships of the type described in Sec. 11-350 that arise after the filing of this application and before each public hearing must be disclosed prior to the public hearings.

As the applicant or the applicant's authorized agent, I hereby attest to the best of my ability that the information provided above is true and correct.

Date

Printed Name

Signature

which there is some form of compensation, does this agent or the business in which the agent is employed have a business license to operate in the City of Alexandria, Virginia?
[] Yes. Provide proof of current City business license
[] No. The agent shall obtain a business license prior to filing application, if required by the City Code.
NARRATIVE DESCRIPTION
3. The applicant shall describe below the nature of the request in detail so that the Planning Commission and City activity. (Attach additional sheets if necessary.)
We want to request to have your approval to extend our permit for two years. We have been a proud
member of the Alexandria, VA community for many years, and we introduced the DHL Popup concept in
2020. Because of the presence of the Popup in Alexandria, we were able to support the local
citizens shipping to over 120 countries and is adjacent to Census Tract 2003.03 and within 2 miles of 2
other opportunity zones with the City of Alexandria. Over 4000 customers used this for shipping
services since opening and the feedback has been that the popup model is the prefered
model due to the convenice of the window service and proximity of parking.
The Mobile Popup ServicePoint is a 187 square feet full-service shipping store build on a hydraulic lift
platform and accomodate all essential amenities, such as HVAC, security and computer systems
including a fast, efficient Point-of-Sale system that can process shipment for destinations around the US
& the world. The DHL Popup Servicepoint promotes sustainability, safety, and convenience. We have
found these popup stores to be beneficial for the City of Alexandria community and we ask for your
approval to extend our permit to continue serving the community.
Attached is the site plan for the DHL Popup. The popup or site will be used to process domestic and international
packages. We thank you for your support and look forward to continuing to grow and evolve with the City of
Alexandria

If property owner or applicant is being represented by an authorized agent such as an attorney, realtor, or other person for

USE CHARACTERISTICS

[1]	proposed special use permit request is for (check one):	
11 a	new use requiring a special use permit	
[] an	n expansion or change to an existing use without a	
7.7	the change to an existing use with a special use	
I J Ou	ther. Please describe:	
Pleas	se describe the capacity of the proposed use:	
A.	How many patrons clients public and all	
	How many patrons, clients, pupils and other such users do you expect Specify time period (i.e., day, hour, or shift).	ct?
	10-15 customers / day	
В.	How many employees, staff and other personnel do you expect?	
	opening time period (i.e., day hour or shift)	
	2 employees / day	
Please	e describe the proposed hours and days of operation of the proposed use	Θ.
Day:		
	ay - Friday	
	09:00 am - 06:00 pm	
Saturda	lay 11:00 am - 06:00 pm	
Please	describe any potential noise emanating from the account	
	describe any potential noise emanating from the proposed use.	
		d patrons
	Describe the noise levels anticipated from all mechanical equipment an	d patrons.
		d patrons.
	Describe the noise levels anticipated from all mechanical equipment an	d patrons.
A	Describe the noise levels anticipated from all mechanical equipment an no noise	d patrons.
Α.	Describe the noise levels anticipated from all mechanical equipment an	d patrons.
A	Describe the noise levels anticipated from all mechanical equipment an no noise	d patrons.
Α.	Describe the noise levels anticipated from all mechanical equipment an no noise	d patrons.

Plea	se provide information regarding trash and litter generated by the use.
Α.	What type of trash and garbage will be generated by the use? (i.e. office paper, food wrappers) papers, shipping lables and bubble wrap
B.	How much trash and garbage will be generated by the use? (i.e. # of bags or pounds per day or peone trash bag / day
C	How often will trash be collected? daily
D.	How will you prevent littering on the property, streets and nearby properties? We clean up the popup daily and check the surrounding area
Will a	ny hazardous materials, as defined by the state or federal government, be handled, stored, or generate operty?
[] Ye	es. [-] No.
If yes,	provide the name, monthly quantity, and specific disposal method below:

hand	any organic compounds, for example paint, ink, lacquer thinner, or cleaning or degreasing solution and stored, or generated on the property?
[.]	
We	s, provide the name, monthly quantity, and specific disposal method below: use & maintain one extra ink cartridge for both an inkjet and laster printer. typically dispose of 3 inkjet cartirdges in a 6 month period. We use one orx wipes, window and floor clearner to maintain the cleaness of the vicepoint.
What	t methods are proposed to ensure the safety of nearby residents, employees and patrons?
We hincludis on safety	have 24 hour security system to monitor activities outside and inside of the popup which des Cameras, remote monitoring, glass break alarm and panic button. Safety equipment hand including a first aid kit, fire extinguisher and non-slip floor mats. We have three y poles 8 feet infront of the servicepoint with relectors to alert any other cars in the parking at the area is secure area.
HOL	L SALES
	Will the proposed use include the sale of beer, wine, or mixed drinks?
	[] Yes [] No
	If yes, describe existing (if applicable) and proposed alcohol sales below, including if the ABC include on-premises and/or off-premises sales.

PARKING AND ACCESS REQUIREMENTS

	How many parking spaces of each type are provided for the proposed use:
	Standard spaces
	Compact spaces
	Handicapped accessible spaces.
	Other.
	Planning and Zoning Staff Only
R	equired number of spaces for use per Zoning Ordinance Section 8-200A
D	oes the application meet the requirement? [] Yes [] No
В.	Where is required parking located? (check one) [v] on-site [] off-site
LEASE No	OTE: Pursuant to Section 8-200 (C) of the Zoning Ordinance, commercial and industrial uses may provide off uses. All other uses must be located of the proposed use, provided that the off-site parking is located on land zoned for some uses.
EASE Note that the unit of the unit continues the u	OTE: Pursuant to Section 8-200 (C) of the Zoning Ordinance, commercial and industrial uses may provide off within 500 feet of the proposed use, provided that the off-site parking is located on land zoned for commercial se with a special use permit. If a reduction in the required parking is requested, surround to the second secon
et of the u	OTE: Pursuant to Section 8-200 (C) of the Zoning Ordinance, commercial and industrial uses may provide off within 500 feet of the proposed use, provided that the off-site parking is located on land zoned for commercial uses. All other uses must provide parking on-site, except that off-street parking may be provided within 300 see with a special use permit.
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et of the u	OTE: Pursuant to Section 8-200 (C) of the Zoning Ordinance, commercial and industrial uses may provide off within 500 feet of the proposed use, provided that the off-site parking is located on land zoned for commercial uses. All other uses must provide parking on-site, except that off-street parking may be provided within 300 see with a special use permit.
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	3. VV	here are off-stree	et loading	facilities loca	ated? na			
C,	Du na	ring what hours	of the day	do you expe	ect loading/u	nloading oper	ations to occur?	
D.	Ho		oading/un	loading ope	rations expe	cted to occur,	per day or per we	ek, as appro
. Is s	street acc	ess to the subject	t property	adequate o	r are any str	eet improvem	ents, such as a ne	w turning la
nec	cessary to	minimize impac	ts on traffi	c flow?				Tractining io
The	ne street	access to the	cubinet	nronorty i	o odomito			
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			Subject	property	s adequie.			
			Subject	property	s adequie.			
			Subject	property	s adequie.			
		TERISTICS	Subject	property	s adequie.			
TE CH	IARAC					[] Yes	[J] No	
TE CH	the prope	TERISTICS	ated in an	existing buil	ding?		[/] No	
TE CH	the propo	TERISTICS	ated in an	existing buil	ding?	[] Yes		
TE CH	the propo	TERISTICS sed uses be local se to construct a	n addition	existing build	ding?	[] Yes		
TE CH	the propo	TERISTICS sed uses be local se to construct a the addition be?	ated in an addition	existing building square for the building square for t	ding?	[] Yes		
Do you	the proportion of the proportion of the proportion of the proportion of the	TERISTICS Sed uses be local se to construct a the addition be? otal area occupie ft. (existing) +	ated in an addition	existing built to the building square oroposed uses	ding? feet.	[] Yes	[4] No	
The pr	the proportion of the proposed for the proposed for the	TERISTICS sed uses be local se to construct a the addition be?	ated in an addition	existing built to the building square oroposed uses	ding? feet.	[] Yes	[4] No	
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The property of the property o	the proportion and alors tand alors tand alors	TERISTICS Sed uses be local se to construct a the addition be? otal area occupie ft. (existing) + use is located in: ne building ated in a resident	n addition NA (check o	existing built to the building square oroposed uses	ding? feet.	[] Yes	[4] No	
The property of the property o	the proposed tand alor hopping in the pr	TERISTICS Sed uses be local se to construct a the addition be? otal area occupie ft. (existing) + use is located in: ne building ated in a resident	ated in an addition NA (check of the check o	existing built to the buildi square roposed using ft. (additi	ding? ing? feet. on if any) = _	[] Yes sq.	ft. (total)	

End of Application



Supplemental application for the following uses:
Automobile Oriented
Parking Reduction
☐ Signs
Substandard Lot
Lot modifications requested with SUP use
nterior Floor Plan
Include labels to indicate the use of the space (doors, windows, seats, tables, counters, equipment)
Applicable
Plan for outdoor uses
ontextual site image
Show subject site, on-site parking area, surrounding buildings, cross streets





Overview



Location:

Pop ups are positioned in well-lit shopping centers, in noncongested areas





Steel-framed structure built on a hydraulic steel commercial trailer with ability to lower almost flush to the ground, 1" duo tempered glass with aluminum framing; stamped drawings provided



Floor Plan:

Floor plan of the trailers is approximately 140 square feet and has an interior usable space of 97 square feet





Off grid model uses solar/rechargeable batteries to power electronic equipment for business use and energy efficient minisplit HVAC.



Accessibility:

Wheel chair ramp available and personal concierge service provided as requested. *For Plantation, lobby service will also be available to accommodate customers as required

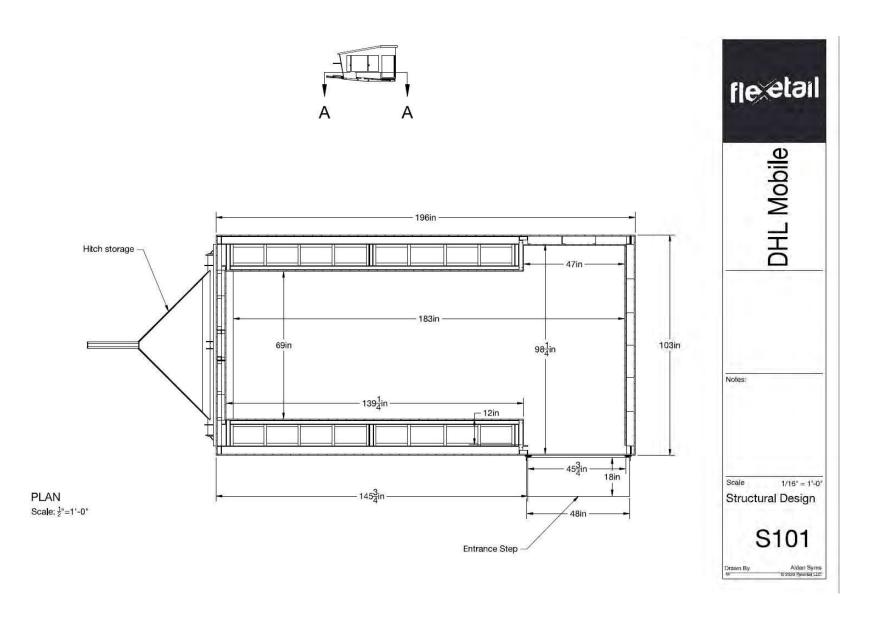


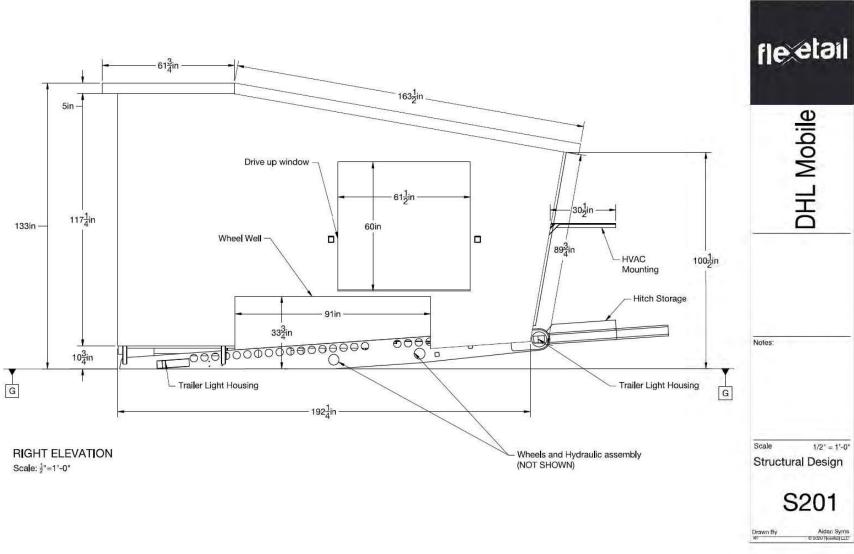
Security:

Includes fish eye camera, panic button, No cash. Security cabinet for all packages.

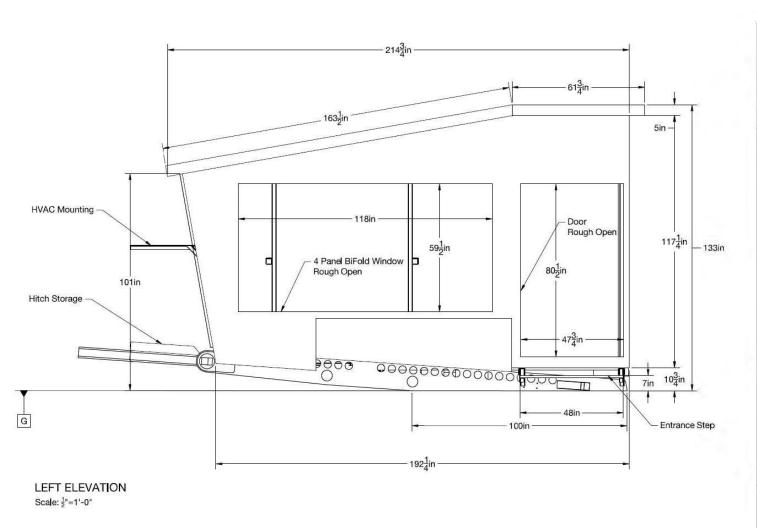


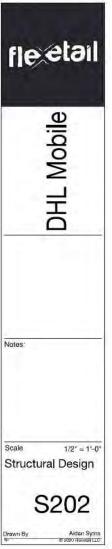
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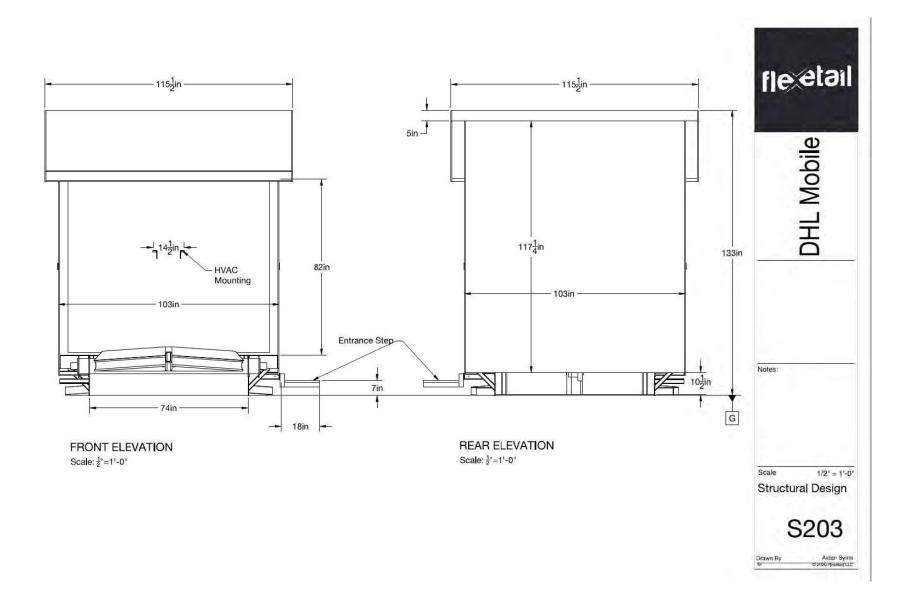










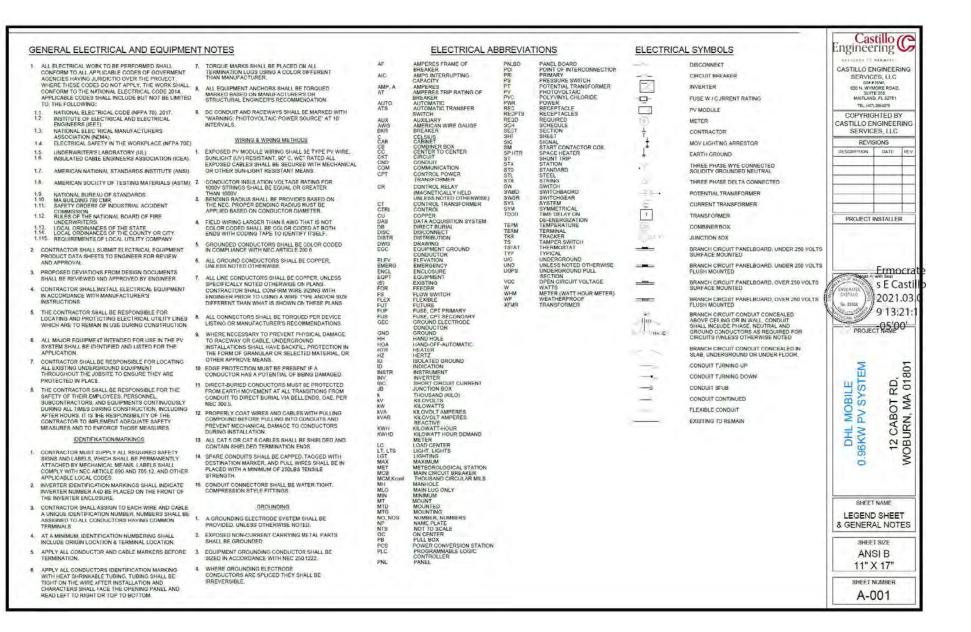


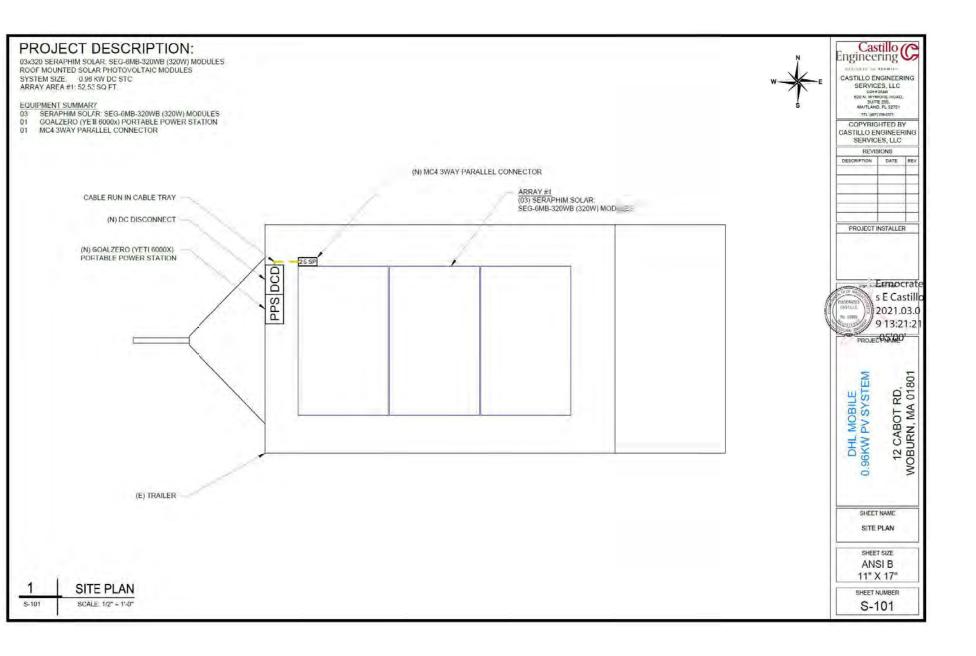
FLEXETAIL 0.96KW PV SYSTEM

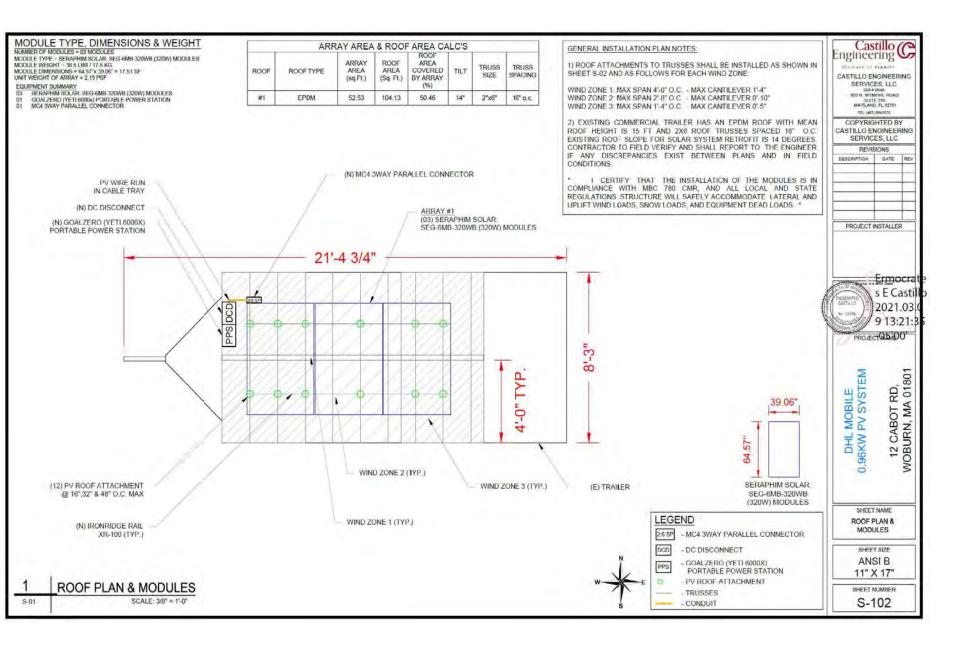
12 CABOT RD, WOBURN, MA 01801

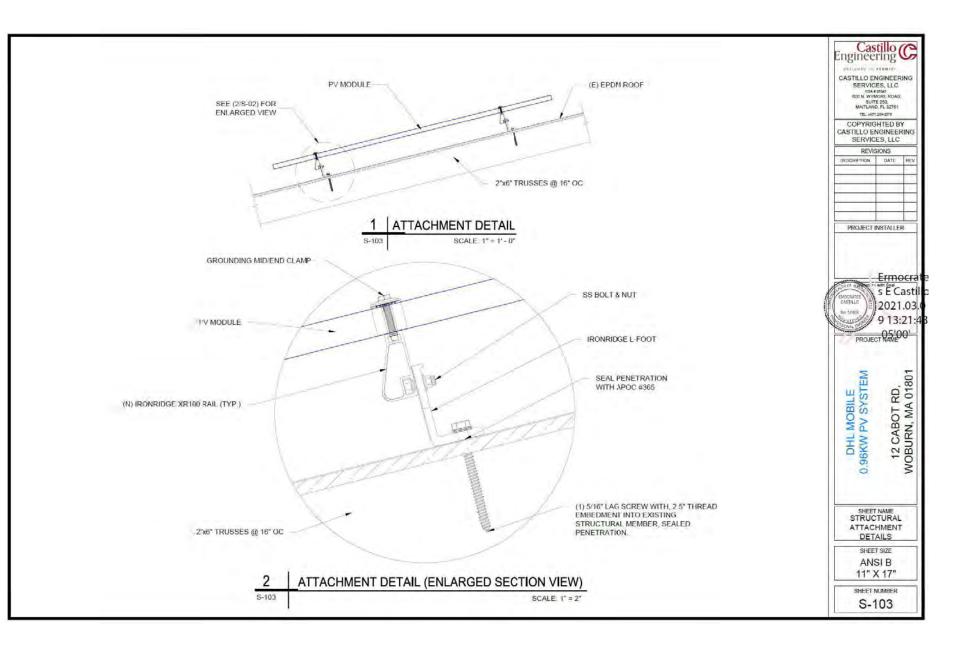
PROJECTS	T SUMMARY CODES AND STANDARDS		PROJECT INFORMATION				AERIAL MAP	
SYSTEM SIZE (AC)	6kW	Sample better relative to constant at						
SYSTEM SIZE (DC)	0.96kW	APPLICABLE CODES AND STANDARDS:	Owner:				OUT LOCATION	
SERAFHIM SOL	AR MODULE	NATIONAL ELECTRICAL CODE 2017 ED					SITE LOCATION	
MODULE MAKE	SERAPHIM SOLAR	MA STATE BUILDING CODE CODE 780 CMR (STH ED)					The state of the s	
MODULE MODEL	SEC-6MB-320WB	ASCE 7 - 10						
MODULE NAMEPLATE	320W	INSTITUTE OF ELECTRICAL AND ELECTRONIC ENGINEERS (IEEE)	Enginee	er.				
MODULE GTV	1	NATIONAL ELECTRICAL MANUFACTURE G ASSOCIATION (NEMA)	Castillo	Engineering Services LLC				
POWER ST	TATION		Malfano	Engineering Services LLC Wymore Road, Suite 250 d, FL 32751				
POWER STATION MAKE	GOAL ZERO	NATIONAL FIRE PROTECTION ASSOCIATION (NFPA 70E)	(407) 25	99-2575 ntes E. Cantillo				
POWER STATION MODEL	YETI 6000x	UNDERWRITERS' LABORATORIES, LLC (UL)		#: MA PE 53900				
POWER STATION POWER RATING	6NW	INSULATED CABLE ENGINEERS ASSOCIATION (ICEA)					. 0	
POWER STATION QTY	1	AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI)						
POWER STATION OF THE								
		AMERICAN SOCIETY OF TESTING MATERIALS (ASTM)					The state of the s	
RACKING SYSTEM MAKE	IRONRIDGE	NATIONAL BUREAU OF STANDARDS						
HACKING SYSTEM MODEL	L-FOOT ATTACHMENT	SAFETY ORDERS OF INDUSTRIAL ACCIDENT COMMISSION						
MODEL TILT ANGLE	14*	RULES OF THE NATIONAL BOARD OF FIRE UNDERWRITERS.					THE STATE OF THE S	
				SHEET DESCRIPTION TITLE SHEET	NEW NEW	DATE 02-26-2021	and the second	
				LEGEND SHEET & GENERAL NOTES	NEW	02-26-2021	SITE LOCATION many	
				SITE PLAN ROOF PLAN & MODULES	NEW	02-26-2021		
			9 - 102 F 5 - 103 S	ROOF PLAN & MODULES STRUCTURAL ATTACHMENT DETAILS	NEW	02-26-2021 02-26-2021		
			3 - 102 F 5 - 103 S 5 - 104 S	ROOF PLAN & MODULES STRUCTURAL ATTACHMENT DETAILS STRUCTURAL CALCULATIONS	NEW NEW NEW	02-26-2021 02-26-2021 02-26-2021		
			9-102 F 5-103 3 6-104 3 E-101 E	ROOF PLAN & MODULES STRUCTURAL ATTACHMENT DETAILS	NEW	02-26-2021 02-26-2021		
			3 - 102 F 5 - 103 S 6 - 104 S E - 101 E E - 102 V	ROOF PLANS MODULES STRUCTUREL ATTACHMENT DETAILS STRUCTUREL CALCULATIONS ELECTRICA, LINE DIAGRAM WIRING CALCULATIONS DYSTEM LABELING	NEW NEW NEW NEW NEW	02-26-2021 02-26-2021 02-26-2021 02-26-2021 02-26-2021 02-26-2021		
		H	3 - 102 F 5 - 103 S 6 - 104 S E - 101 F E - 102 V E - 103 S DS-01 E	ROOF PLANS MODULES STRUCTUREL ATTACHMENT DETAILS STRUCTUREL CALCULATIONS ELECTRICA. LINE DIAGRAM WIRING CALCULATIONS GYSTEM LABELING EQUIPMENT DATA SHEETS	NEW NEW NEW NEW NEW NEW NEW	02-28-2021 02-28-2021 02-26-2021 02-26-2021 02-26-2021 02-26-2021 02-26-2021	B IS COLON NA	
			3 - 102 F 5 - 103 2 6 - 104 2 E - 101 E E - 102 V E - 103 2 DS-01 E	ROOF PLANS MODULES STRUCTUREL ATTACHMENT DETAILS STRUCTUREL CALCULATIONS ELECTRICA, LINE DIAGRAM WIRING CALCULATIONS DYSTEM LABELING	NEW NEW NEW NEW NEW	02-26-2021 02-26-2021 02-26-2021 02-26-2021 02-26-2021 02-26-2021	© 12 Cabri M. Woodin Vid. (1991	
			3 - 102 F 5 - 103 2 6 - 104 2 E - 101 E E - 102 V E - 103 2 DS-01 E	ROOF PLANE MODULES STRUCTUREL ATLACHMENT DETAILS STRUCTUREL CALCULATIONS ELECTRICAL LINE DIAGRAM WIRRING CALCULATIONS SYSTEM LABELING EQUIPMENT DATA SHEETS SOURMENT DATA SHEETS	NEW NEW NEW NEW NEW NEW NEW	02-26-2021 02-26-2021 02-26-2021 02-26-2021 02-26-2021 02-26-2021 02-26-2021 02-26-2021	© 12 Celof M. (20)	
			3 - 102 F 5 - 103 2 6 - 104 2 E - 101 E E - 102 V E - 103 2 DS-01 E	ROOF PLANE MODULES STRUCTUREL ATLACHMENT DETAILS STRUCTUREL CALCULATIONS ELECTRICAL LINE DIAGRAM WIRRING CALCULATIONS SYSTEM LABELING EQUIPMENT DATA SHEETS SOURMENT DATA SHEETS	NEW NEW NEW NEW NEW NEW NEW	02-26-2021 02-26-2021 02-26-2021 02-26-2021 02-26-2021 02-26-2021 02-26-2021 02-26-2021	© 12 Calbri Rd. Weburn MA 01591	
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			3 - 102 F 5 - 103 2 6 - 104 2 E - 101 E E - 102 V E - 103 2 DS-01 E	ROOF PLANE MODULES STRUCTUREL ATLACHMENT DETAILS STRUCTUREL CALCULATIONS ELECTRICAL LINE DIAGRAM WIRRING CALCULATIONS SYSTEM LABELING EQUIPMENT DATA SHEETS SOURMENT DATA SHEETS	NEW NEW NEW NEW NEW NEW NEW	02-26-2021 02-26-2021 02-26-2021 02-26-2021 02-26-2021 02-26-2021 02-26-2021 02-26-2021	© 12 Cetal Rd. Woman Ma engal	
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			3 - 102 F 5 - 103 2 6 - 104 2 E - 101 E E - 102 V E - 103 2 DS-01 E	ROOF PLANE MODULES STRUCTURIL ATLACHMENT DETAILS STRUCTURIL CALCULATIONS ELECTRICAL LINE DIAGRAM WIRRING CALCULATIONS SYSTEM LABELING EQUIPMENT DATA SHEETS SOURMENT DATA SHEETS	NEW NEW NEW NEW NEW NEW NEW	02-26-2021 02-26-2021 02-26-2021 02-26-2021 02-26-2021 02-26-2021 02-26-2021 02-26-2021	TO Calabri Rd. widown Volk of 6091	
			3 - 102 F 5 - 103 2 6 - 104 2 E - 101 E E - 102 V E - 103 2 DS-01 E	ROOF PLANE MODULES STRUCTURIL ATLACHMENT DETAILS STRUCTURIL CALCULATIONS ELECTRICAL LINE DIAGRAM WIRRING CALCULATIONS SYSTEM LABELING EQUIPMENT DATA SHEETS SOURMENT DATA SHEETS	NEW NEW NEW NEW NEW NEW NEW	02-26-2021 02-26-2021 02-26-2021 02-26-2021 02-26-2021 02-26-2021 02-26-2021 02-26-2021	III (2 Color Rt. wobun MA 01691	
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Risk Category	1
Wind Speed ASD (mph)	120
Exposure Category	С
Mean Roof Height (ft)	15
Roof Slope (degrees)	15
Module Area (sq ft)	20
Ground Snow Load (psf)	50
Dead Load (psf)	3
Exposure Factor (Ce)	1.0
Temperature Factor (Ct)	1.0
Importance Factor (Is)	1.0
Slope Factor (C₅)	0.91
Sloped Roof Snow Load (psf)	31.85
Kzt	1
Height Adjustment Factor, λ	1.21

Roof Zone	Pnet	(30)
1	13.6	-23
2	13.6	-38
3	13.6	-57,1

$P_net = [\lambda K]_z: P_net(30)$

Roof Zone	Pnet	(psf)
1	34.29	-27.83
2	34.29	45.98
3	34.29	-69.091

Roof Slope Calculator				
Rise	Run	Slope (*)		
3	12	14.0		

Maximum Uplift per *fastener Wind Zone 1 (lbf)	306.1
Per American Wood Council – NDS Max Withdraw Load for 5/16" LAG with 2.5" Embedment	476

*Roof attachements w 2 rails at: 48 in O/C

Maximum Uplift per *fastener Wind Zone 2 (lbf)	337.2
Per American Wood Council - NDS Max Withdraw Load for 5/16" LAG with 2.5" Embedment	476

*Roof attachements w 2 rails at: 32 in O/C

Maximum Uplift per *fastener Wind Zone 3 (lbf)	253,3
Per American Wood Council - NDS Max Withdraw Load for 5/16" LAG with 2.5" Embedment	476

*Roof attachements w 2 rails at: 16 in O/C

780 CMR: STATE BOARD OF BUILDING REGULATIONS AND STANDARDS

16.00: continued

	SNOW	LOADS	BASIC WIND SPEED, Van (mph) SEIS			MIC TERS (g)	
City/Town	Ground Snow Load, P ₄ (psf)	Minimum Flat Roof Snow Load, P, (psf)	Risk Category I	Risk Category II	Risk Category III or IV	s,	Sı
W. Stockbridge ²	40	40	105	1.15	120	0.169	0.066
W. Tisbury	25	25	134	140	154	0.141	0.052
Westborough	50	35	115	125	136	0.186	0.066
Westfield	40	35	107	118	125	0.172	0.065
Weitford	50	35	112	123	133	0.223	0.072
Westhampton	50	40	105	116	122	0.170	0.066
Westminster	60	35	109	120	130	0.194	0.069
Weston	40	35	116	126	137	0.207	0.069
Westport	30	30	128	139	149	0.172	0.059
Westwood	40	35	119	129	140	0.196	0.066
Weymouth	35	30	121	131	142	0.206	0.067
Whately	50	35	105	116	122	0.171	0.067
Whitman	35	30	123	133	144	0.194	0.064
Wilbraham	-35	35	110	121	130	0.173	0.065
Williamsburg	50	40	105	116	121	0.170	0.067
Williamstown ²	50	40	105	115	120	0.176	0.070
Wilmington	50	30	115	125	136	0.233	0.073
Winchendon	60	35	107	117	125	0.197	0.071
Winchester	40	30	116	126	137	0.224	0.071
Windsor	60	40	105	115	120	0.169	0.067
Winthrop	40	30	118	129	140	0.222	0.070
Woburn	50	30	116	126	137	0.226	0.071
Worpester	50	35	114	124	134	0.180	0.066
Worthington	60	40	105	115	120	0.169	0.067
Wrentham	40	35	120	130	141	0.184	0.064
Yamouth	30	25	132	140	152	0.149	0.054

- 1. The design flat roof snow load shall be the larger of the calculated flat roof snow load using $P_{\rm g}$ or the value of $P_{\rm r}$ listed in this table.
- 2. Special Wind Region. Local conditions may cause higher wind speeds than the tabulated values. See ASCE/SEI 7.

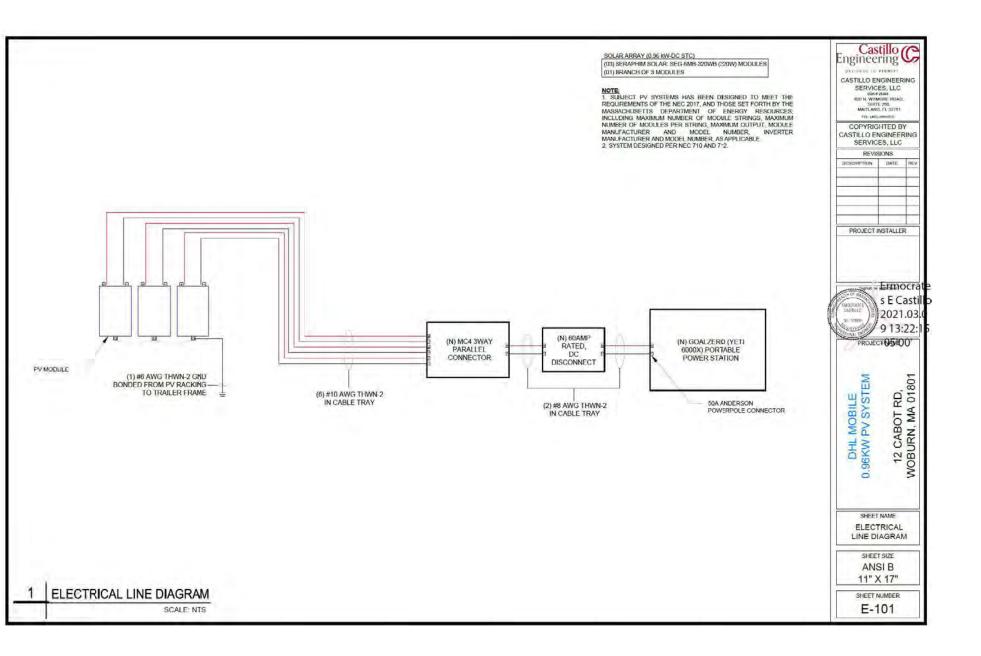


12 CABOT RD, WOBURN, MA 01801 DHL MOBILE 0.96KW PV SYSTEM

SHEET NAME STRUCTURAL CALCULATIONS

SHEET SIZE ANSI B 11" X 17"

SHEET NUMBER S-104



DC CONDUCTOR AMPACITY CALCULATIONS: ARRAY TO MC4 3 WAY CONNECTOR

EXPECTED WIRE TEMP (In Celsius)	34"
TEMP. CORRECTION PER 310.15(B)(2)(a)	0.96
NO. OF CURRENT CARRYING CONDUCTORS	2
CONDUIT FILL CORRECTION PER NEC 310.15(B)(3)(a)	1.0
CIRCUIT CONDUCTOR SIZE	10 AWG
CIRCUIT CONDUCTOR AMPACITY	40A

REQUIRED CIRCUIT CONDUCTOR AMPACITY PER NEC 690.8(A&B)	15.66A
1.25 X 1.25 X ISC	15,66A
DERATED AMPACITY OF DIRCUIT CONDUCTOR PER NEC 310.15(B)(2)(a)	
TEMP. CORRECTION PER 310.15(B)(2)(a)X CONDUIT FILL CORRECTION PER NEC 310.15(B)(3)(a) X CIRCUIT CONDUCTOR AMPACITY	38.4A

its ampacity

FROM MC4 3WAY CONNECTOR TO POWER STATION

EXPECTED WIRE TEMP (In Celsius)	34* 0.96 2
TEMP. CORRECTION PER 310.15(B)(2)(a)	
NO. OF CURRENT CARRYING CONDUCTORS	
CONDUIT FILL CORRECT ON PER NEC 310.15(B)(3)(a)	1.0
CIRCUIT CONDUCTOR SIZE	8 AWG
CIRCUIT CONDUCTOR AMPACITY	55A

REQUIRED CIRCUIT CONDUCTOR AMPACITY PER NEC 690.8(A&B)		
3 X 1 25 X 1 25 X ISC	46.97A	
DERATED AMPACITY OF CIRCUIT CONDUCTOR PER NEC 310.15(B)(2)(a)		
TEMP. CORRECTION PER 310.15(B)(2)(a)X CONDUIT FILL CORRECT ON PER NEC 310.15(B)(3)(a) X CIRCUIT CONDUCTOR AMPACITY	52.80A	
Result should be greater than (46.97A) otherwise increase the size of the conduct its ampacity	or and	

POWER STATION SPECIFICATIONS		
MANUFACTURER	GOAL ZERO	
MODEL #	YETI 6000X	
NOMINAL AC POWER	6 KW	
NOMINAL OUTPUT VOLTAGE	110V	
NOMINAL OUTPUT CURRENT	16.5A	

SOLAR MODULE SPECIFICATIONS			
MANUFACTURER	SERAPHIM SEG-6MB-320WB		
MODEL#			
PMAX	320W		
VMP	33.0V		
IMP	7.70A		
voc	40.6V		
ISC	10,02A		
MODULE DIMENSION	64 57"L x 39 06"W x 1 37"D (In Inch)		

PERCENT OF VALUES	NUMBER OF CURRENT CARRYING CONDUCTORS IN EMT	
0.80	4-6	
0.70	7-9	
0.50	10-20	

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SERVICE SOAT BOD N WYN	25345	
Sum	250. D. FL 32751	
751: (407)	289-2575	
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0.96KW PV SYSTEM 12 CABOT RD, WOBURN, MA 01801

9 13:22:2 PROJECTA SIGO

SHEET NAME WIRING CALCULATIONS

SHEET SIZE ANSI B 11" X 17"

SHEET NUMBER E-102

- ALL EQUIPMENT TO BE LISTED BY UL OR OTHER NRTL, AND LABELED FOR ITS APPLICATION.
 ALL CONDUCTORS SHALL BE COPPER, RATED FOR 600 V AND 90 DEGREE C WET ENVIRONMENT. THE TERMINALS ARE RATED FOR 75 DEGREES "C".
- THE WIRES ARE SIZED ACCORDING TO NEC 110.14".
- WIRING, CONDUIT, AND RACEWAYS MOUNTED ON ROOFTOPS SHALL BE ROUTED DIRECTLY TO, AND LOCATED AS CLOSE AS POSSIBLE TO THE NEAR:ST RIDGE, HIP, OR VALLEY
- WORKING CLEARANCES AROUND ALL NEW AND EXISTING ELECTRICAL EQUIPMENT SHALL COMPLY WITH NEC 110.26.
- DRAWINGS INDICATE THE GENERAL ARRANGEMENT OF SYSTEMS. CONTRACTOR SHALL FURNISH ALL NECESSARY OUTLETS, SUPPORTS, FITTINGS AND ACCESSORIES TO FULFILL APPLICABLE CODES AND STANDARDS.
 WHERE SIZES OF JUNCTION BOXES, RACEWAYS, AND CONDUITS ARE NOT SPECIFIED, THE CONTRACTOR SHALL SIZE THEM ACCORDINGLY
- ALL WIRE TERMINATIONS SHALL BE APPROPRIATELY LABELED AND READILY VISIBLE.
- MODULE GROUNDING CLIPS TO BE INSTALLED BETWEEN MODULE FRAME AND MODULE SUPPORT RAIL, PER THE GROUNDING CLIP MANUFACTURER'S
- MODULE SUPPORT RAIL TO BE BONDED TO CONTINUOUS COPPER G.E.C. VIA WEEB LIVE OR ILSCO GBL-4DBT LAY-IN LIVE.
- 11. THE POLARITY OF THE GROUNDED CONDUCTORS IS NEGATIVE.
 12. UTILITY HAS 24-HR UNRESTRICTED ACCESS TO ALL PHOTOVOLTAIC SYSTEM COMPONENTS LOCATED AT THE SERVICE ENTRANCE.
- 13. MODULES CONFORM TO AND ARE LISTED UNDER UL 1703.
- 14. RACKING CONFORMS TO AND IS LISTED UNDER UL 2703.
- 15 CONDUCTORS EXPOSED TO SUNLIGHT SHALL BE LISTED AS SUNLIGHT RESISTANT PER NEC ARTICLE 300 6 (C) (1) AND ARTICLE 310.10 (D).
 16 CONDUCTORS EXPOSED TO WET LOCATIONS SHALL BE SUITABLE FOR USE IN WET LOCATIONS PER NEC ARTICLE 310.10 (C).

WARNING: PHOTOVOLTAIC POWER SOURCE

LABEL LOCATION: CONDUIT, CABLE TRAY (ADDITIONAL EQUIPMENT THAT CONTAINS PV SOURCE WIRES (PER CODE: NEC690.31(G)(3))

RAPID SHUTDOWN SWITCH FOR SOLAR PV SYTEM

LABEL LOCATION DC DISCONNECT (PER CODE: NEC690.56(C)(3))

- ADHESIVE FASTENED SIGNS:

 THE LABEL SHALL BE SUITABLE FOR THE ENVIRONMENT
- THE LABEL SHALL BE SUITABLE FOR THE ENVIRONMENT WHERE IT IS INSTALLED

 WHERE IT IS INSTALLED

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PHOTOVOLTAIC SYSTEM DC DISCONNECT RATED DC OPERATING CURRENT 29.1 AMPS DC NOMINAL OPERATING VOLTAGE 33.0 VOLTS

LABEL LOCATION DC DISCONNECT (PER CODE: NEC690.54)

POWER STATION

MAXIMUM SYSTEM VOLTAGE (VOC)
MAXIMUM CIRCUIT CURRENT (Isc)
MAXIMUM RATED OUTPUT OF DC TO DC CONVERTER (Idc)

LABEL LOCATION: POWER STATION (PER CODE: NEC690.53)

SOLAR PV SYSTEM EQUIPPED WITH RAPID SHUTDOWN

TURN RAPID SHUTDOWN
SWITCH TO THE
"OFF" POSITION TO
SHUT DOWN
CONDUCTORS OUTSIDE
THE ARRAY.
CONDUCTORS WITHIN
THE ARRAY REMAIN
ENERGIZED IN SUNLIGHT



LABEL LOCATION DC DISCONNECT (PER CODE: NEC 690.56(C)(1)(a), IFC 605.11.3.1(1)



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SYSTEM
LABELING

SHEET NAME
SYSTEM
LABELING

ANOI B
11" X 17"

E-103



GOAL ZERO YETI 6000X TECHNICAL SPECIFICATIONS

Technical Specifications

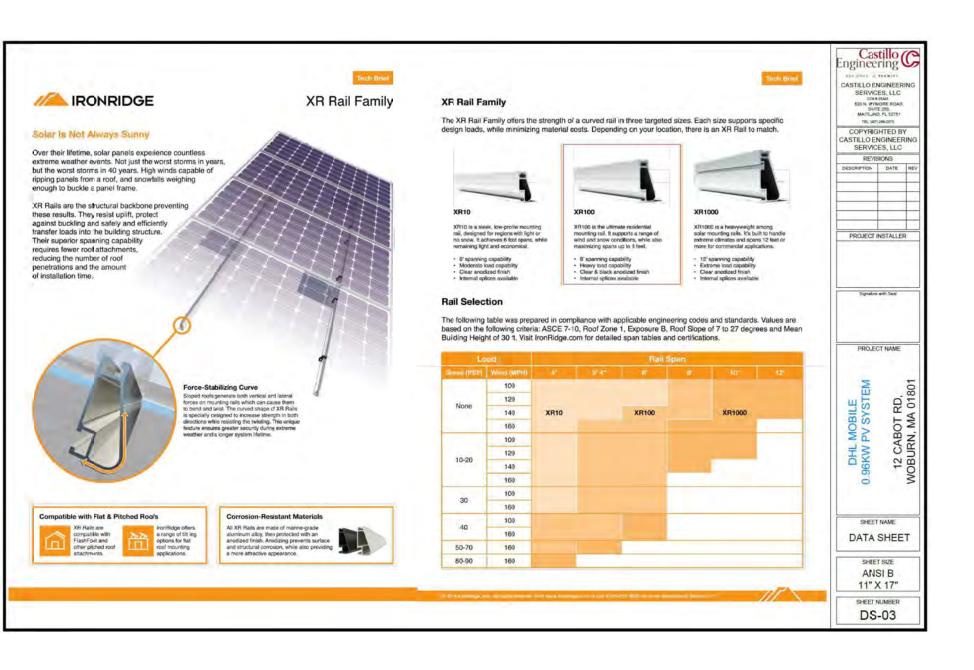
Charge times	
Maximum input (standard)	11 hrs
Goal Zero Ranger 300	24-48 hrs
Goal Zero Boulder (3X) 200 Briefcase	12-14 hrs
Goal Zero Boulder (6X) 200 Briefcase	11-12 hrs
Battery:	
Cell Chemistry	Li-ion NMC
Pack Capacity	6010Wh (10.8V, 557Ah)
Single Cell Equivalent Capacity	1668Ah @ 3.6V
Lifecycles	500 Cycles to 80% capacity (Discharge rate: 1C, Full charge/discharge, Temp: 25C)
Shelf-life	Charge every 3-6 months
Management System	MPPT charge controller
Ports:	
USB-A Port (output)	5V, up to 2.4A (12W max), regulated
USB-C Port (output)	5 - 12V, up to 3.0A (18W max), regulated
USB-PD Port (output)	5 - 20V, up to 3.0A (60W max), regulated
6mm Port (output, 6mm)	12V, up to 10A (120W max), regulated
12V Car Port (output)	12V, up to 13A (160W max), regulated
12V Power Pole port (output)	12V, up to 30A (360W max), regulated
120V AC Inverter (output, pure sine wave)	120VAC 60Hz, 16.5A (2000W, 3500W surge)
230V AC Inverter (output, pure sine wave) UNIVERSAL OR AUSTRALIA (TYPE 1) AC PLUGS	230VAC 50Hz, 8.5A (2000W, 3500W surge)
Charging Port (input, 8mm)	14-50V, up to 10A (120W max)
Power Pole Charging Port (input)	14-50V, up to 50A (600W max)
Expansion Module port	Covered port under the lid. To be used with Goal Zero expansion modules only.

Technical Specifications

WiFi:	
RF Certification	FCC/CE/IC/TELEC/KCC/SRRC/NCC
Protocols	802.11 b/g/n (802.11n up to 150 Mbps)
Frequency Range	2.4-2.5 GHz
Bluetooth:	
Protocols	Bluetooth Low Energy
General:	
Weight (Yeti only)	97.35 lbs (44.16 kg)
Weight (cart only)	106.1 lbs (48.11 kg)
Dimensions (Yeti only)	15.25 x 10.23 x 17 in (38.74 x 25.98 x 43.2 cm)
Dimensions (Yeti & Roll Cart)	20.5 x 14.6 x 19.01 in (51.99 x 36.98 x 48.28 cm)
Operating Usage Temp.	32-104 F (0-40 C)
Certs	® ∑ C€ RC
Warranty	24 months

Castillo C Engineering C CASTILLO ENGINEERING SERVICES, LLC COASTILLO ENGINEERING SUITE 200. MATLAIO, FL 12705. TEL 1971 200-2007. COPYRIGHTED BY CASTILLO ENGINEERING SERVICES, LLC REVISIONS DESCRIPTION DATE REV PROJECT INSTALLER Signature with Seal PROJECT NAME 12 CABOT RD, WOBURN, MA 01801 DHL MOBILE 0.96KW PV SYSTEM SHEET NAME DATA SHEET SHEET SIZE ANSI B 11" X 17" SHEET NUMBER DS-02

10



AP 365



ETERNA-FLASH® ULTRA ALL WEATHER RUBBERIZED FLASHING CEMENT DATA SHEET

COMPLIANCE: Exceeds performance requirements of ASTM D3409 and ASTM D4586, TYPE II Marmi-Dade County Control Product Approved.

DESCRIPTION: APOR 3699 ETERNA-TABLE All Weather fasherized flashing Centent in in high professionant learning periods reposally formation of the professional rooke. APOR 3656 is no informative floridat, included marble, the professional professional

PREFARATION Download the APCS APP for detailed installation resourcious widers, four and questionalisms, Coronitenty rest all opplication manual and phase waither possibilities, prior the state group work will achieve must be comparing characterisms proof to state group work for the property of the pr

FOR BEST RESULTS. Apply when surface-insuperatures are solven of 0.1% and 1.0%. On virtual surfaces in the temperature, an exploit struct to applied in lini ayers, in calder weather, product should be streed in leated reem (65.1% to 80.1%) at least 24 hours prior to application. Product should be streed in leated rorm (65.1% to 80.1%) at least 24 hours prior to application. Product formutated to be used year-round, For larger leading crashs, are APOC Bubbentord, Polymer, Acrylic or Michael Canad Rechrologies.

FALL PROTECTION WARNING: Always side personal full protection, devices and follow procedures in accordance with 05-4 and secritical sideling regulatory requirements when waiking or exhibit on recht is the other entitles and sideling the sideling sideling or well executions to sixty humeroese, the boards and deplant. Dusty, diving not well executions are with a cartinal trians can result in ripporty satisface and create a full hibbard. Always be cognitized of where you are in relation to your surroundings, including the one of timest on. The degla of the reco, a by implements, available and any other objects which could become you for stip or fall. Falling from a reod pain result in marinas farm or death.

APPLICATION: Fix exterior rate only. Principline clothing, gloves and systems usually be limited height application of these products. Apply With a troated of public Virile. Work material to an even comissions, over and into this eries to be regarded. Using the "3-causes" medical, apply cereart. Into this has been desired to the product of the problem area. Best, without one the resident promoted as a layer of APPAs insuffering below, that the request, forcial letters who common which is a facility solution of the product of the property of the production of the production and additional layer of cornect. Form a facilities of the content form a facilities of the content form a facilities of the production area in facilities and content form a facilities of the content form a facilities of the production area in facilities and other projections must the proof facilities.

COVERAGE RATE: Approximately 12.5 sq. ft. per gallon when applied 1/8" thick CLEAN-UP: Clean bools with point thinner or mineral spirits.

02018 Gardner-Gloson, Inc. Manufactured by / Fabricado pm/ Gardner-Gloson, Inc. RO. Hox 5449, Tumpa, FL 30876

See SDS for more into

TYPICAL PHYSICAL & PERFORMANCE CHARACTERISTICS:

Weight Per Gallon	8.5 - 9.0 lbs:
Adhesion Underweter	Expellent
Consistency	Trowel
Application Temperatures	40 F - 120 F
Clean-up Tools	Paint Thirmer, Mineral Spints

Approx. Shipping Weights: them Al approx. weights would contained

10 ft, dz. tube (295 mL)	1 (b,
1 gallen (3.8t.)	10 lbs.
(4) 1 geilon containers/case	41 lbs.
3 gallons (13.2 t.)	33 lbs.

VOC: 300 g/L (regulatory)

HANDLING PRECAUTIONS: Size product in the cango area of verhicle, disk second on top of 6 min shalls throwing to proved dismagnic due to accident applies in lossening of lide. Product neight inclination requires for safet use is not included. Bafore handling, read product safety data sheets and container slopes for safe use one for physical and habitis hazard information. Safety Data Structure are availabled on the PPCC webbils in www.apoc.com, the APDC APP, by contacting APDC at Inch resultant/Report con the PPCC APP, by contacting APDC at Inch resultant/Report con the PPCC APP, by

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11" X 17"

DS-04



www.tamconsultants.com



November 18, 2020

Aidan Syms - VP of Design & Manufacturing Flexetail LLC <addam@flexetail.com 17 Philmore rd Newton, Massachusetts 02458 774.270.3240

Subject: Temporary DHL Mobile Service Point for the City of Alexandria

TAM Project No. 20679-W

Attachments: a) Plans

b) DOT Trailer Certificates

c) Registrations

Dear Mr. Syms,

In accordance with your request, we have completed a review of the mobile DHL Trailer that will be placed on a temporary basis in Alexandria, Virginia. We were requested to review the trailer, placement, use, and applicable building codes for the mobile trailer.

BACKGROUND:

The DHL Mobile Service point is a steel framed structure built on a hydraulic steel commercial trailer. The super structure is composed of hollow structural steel tubes with cold forced steel infill studs and then sheathed with Zip Sheathing.

The commercial trailer is a Lifetime Lo Riser Model IPT4-516 Hydraulic Inclining Platform Trailer which has a load capacity of 10,000 lbs and weighs approximately 3,500 pounds. This trailer is manufactured and sold by a The Advance Metalworking Company in Illinois who states that the specific trailer meets all Federal Department of Transportation requirements for the trailer.

It is also our understanding that this trailer is currently registered and licensed with the Massachusetts Department of Transportation. License Plate number E33682 and VIN 1LPTD1627HKFEB035.

The projected floor plan of the trailers is approximately 140 square feet and has an interior space of 97 square feet when the wall thickness and wheel wells are accounted for.

LOADING AND CODE REVIEW:

This structure will be parked for temporary events and the moved and stored like a normal trailer. While parked, it will be used for less than 180 days and therefore falls into the Temporary Structure's requirement of the Current Virginia Construction Code (2015) and the ICC International Building Code.

The construction of the building falls into category VB due to the combustible materials selected for the exterior sheathing per Chapter 6. For use group of Assembly similar to and exhibit gallery or is used for Mercantile, the more stringent occupant load is 30net area per occupants. This places the trailer at 5 occupants; as per Chapter 3 and Table 1004.1.1

Per chapter 31 section 31.03b structures that cover an area of over 120 square feet and an occupancy over 10 persons a building permit will be required. This useable space of the trailer is just under the 120 occupiable square feet and the maximum occupancy of the trailer is 5 persons. Therefore it appears that a location permit is not required for this structure, unless the authority having judication requires it for other reasons.

Due the temporary use of the structure design loads can be reduced per ASCE 7-10. A 10-year return period wind event results in an ultimate wind speed of 76 miles per hour, a similar sized permanent structure would result in an ultimate design wind speed of 115 mph. The change in forces of these two speeds is the temporary structure is less than half of the permanent loads.

CONCLUSIONS:

- 1. Based on the stated DOT specification, the trailer registrations, trailer load capacity, type of superstructure construction, the temporary use and temporary design loads it is our opinion that structure as a whole can be considered as part of a manufactured system for road use and not a standard building.
- 2. Based on the useable space and occupant load it is our opinion that this structure falls outside the requirement of building permits per Temporary Structures Section 3103.1.2 in the 2015 Virginia Construction Code.
- 3. Based on the weight of the trailer combined with the calculated weight of the framing above and the fact the hydraulic pistons raise the trailer's wheels off the ground it is our opinion that the trailer is stable and will remain stationary under normal anticipated temporary structure wind and lateral load events when placed on level ground.

In the event of a known hurricane or major wind event, the mobile aspect of the trailer will result in the need to be relocated either indoors or anchored in a suitable storage location.

DISCLAIMERS:

Our comments are limited to the conditions noted and those that were declared in this report. We make no claim either stated or implied that all conditions were evaluated, or that a detailed

20679-W Page 2 of 3 TAM Consultants, Inc.

analysis of the building or structure was performed. Should additional information be uncovered or made available, we retain the right to revise or supplement our report accordingly.

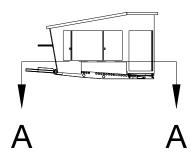
This report is furnished as privileged and confidential to the addressee. Release to any other company, concern, or individual is solely the responsibility of the addressee.

We appreciate the opportunity to provide professional services to you. If you have any questions or need additional information or investigation into this matter, please call us at (757) 564-4434.

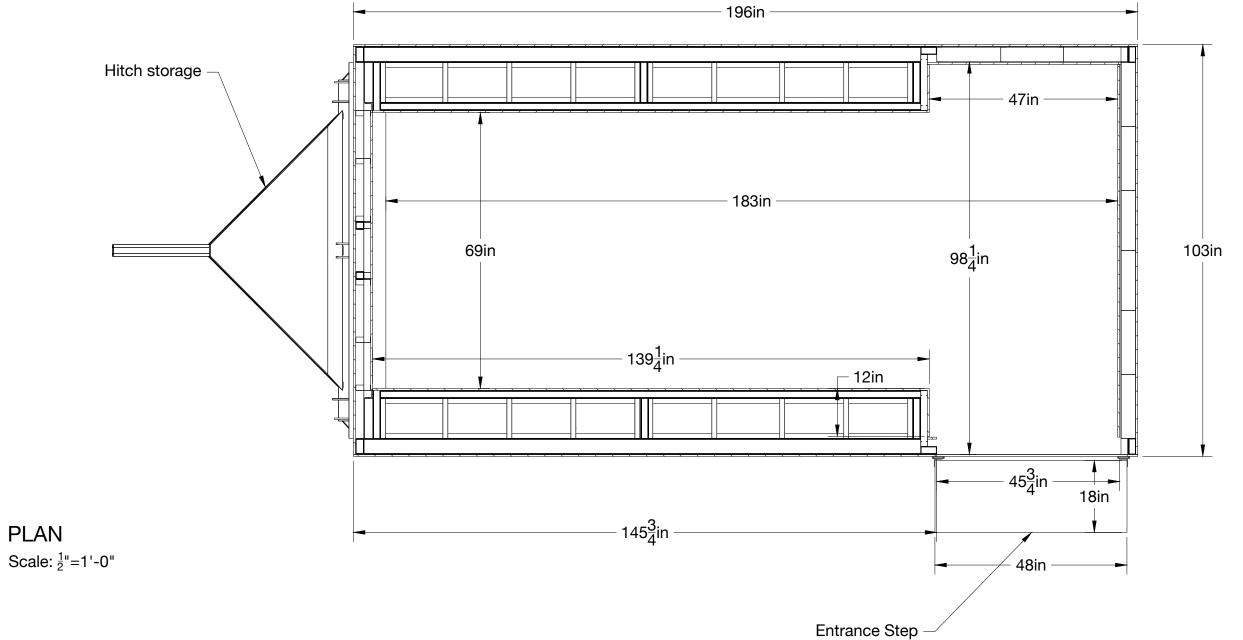
Sincerely,

Eric R White PE Production Manager

Encl.







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DHL Mobile

Notes:

Scale

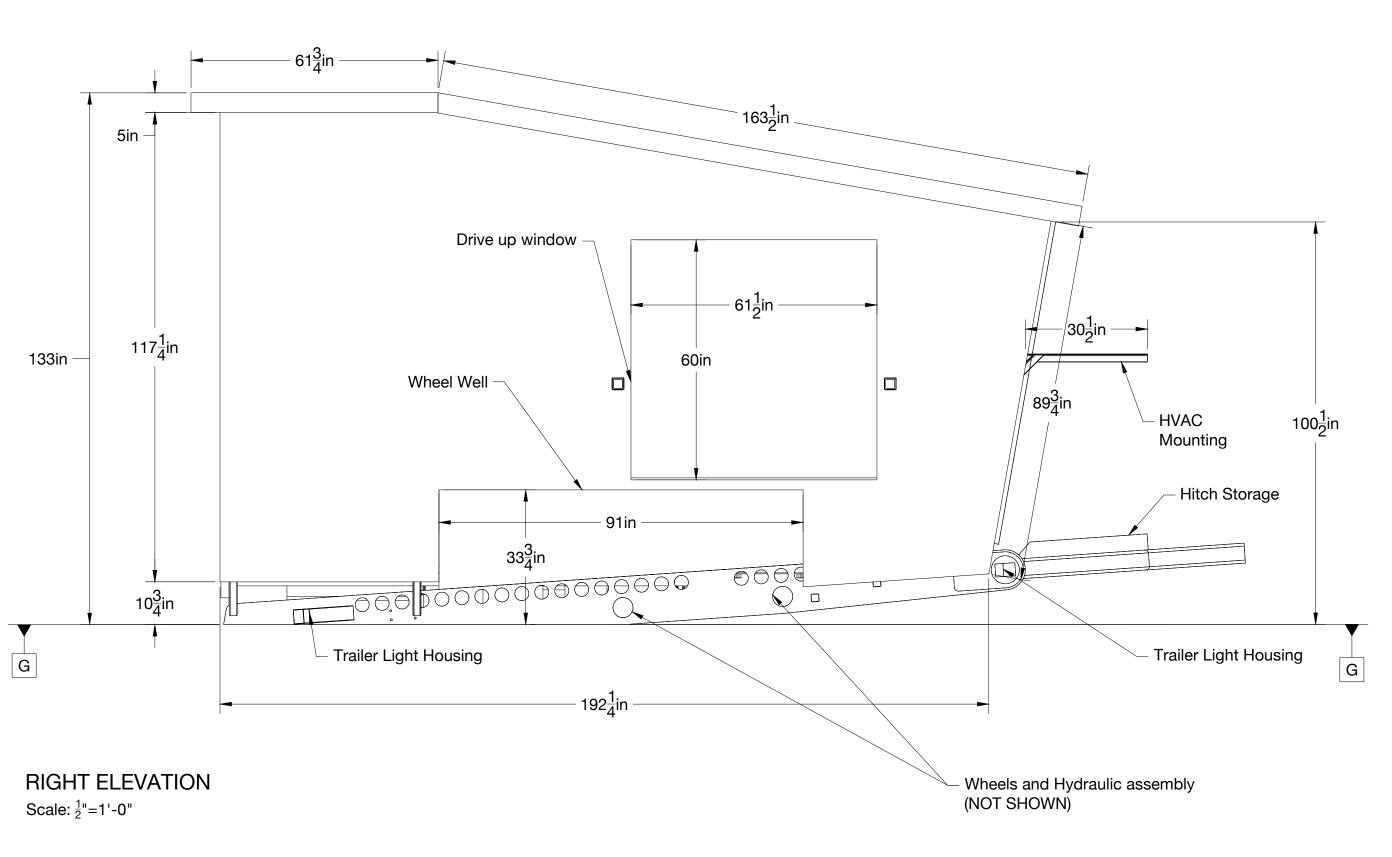
1/16" = 1'-0"

Structural Design

S101

Drawn By Aidan Syms
N

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JHL Mobile

Notes:

Scale

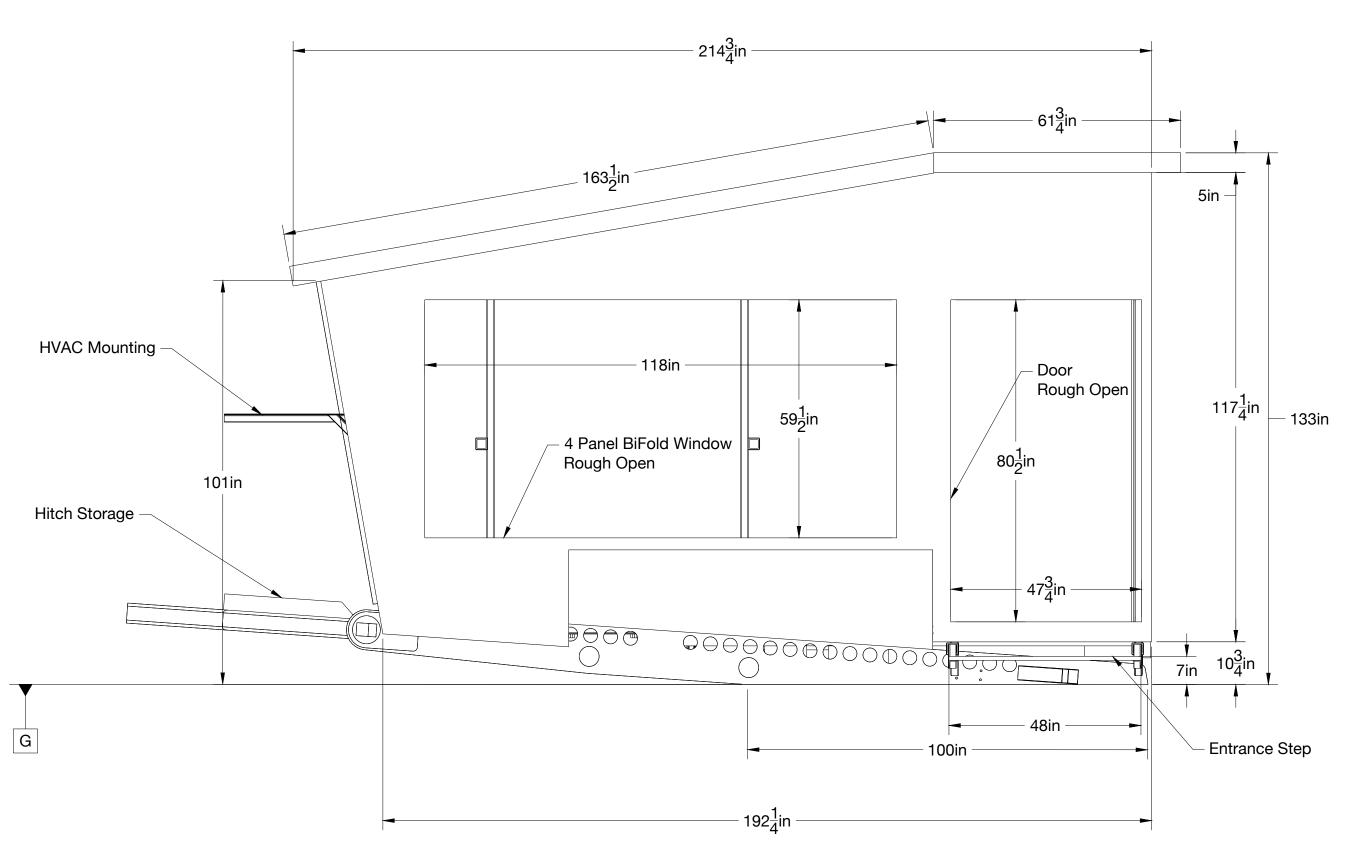
1/2" = 1'-0"

Structural Design

S201

Drawn By №

Aidan Syms
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LEFT ELEVATION

Scale: ½"=1'-0"



OHL Mobile

Notes:

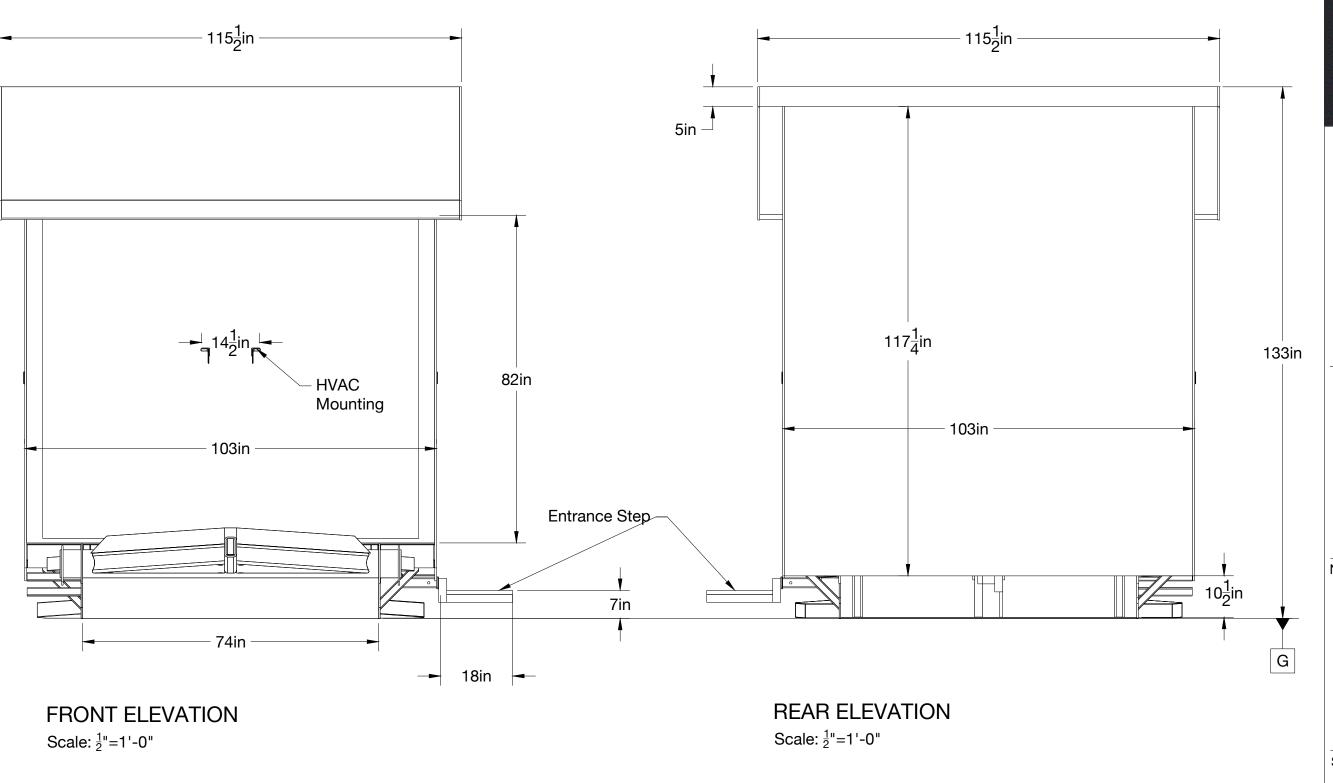
Scale

1/2" = 1'-0"

Structural Design

S202

Drawn By № Aidan Syms
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JHL Mobile

Notes:

Scale

1/2" = 1'-0"

Structural Design

S203

Drawn By Aidan Syms
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Trailer Registration



Trailer Division

TRAILER BILL OF SALE

BUYER:	Kewanee, Illinois Name: <u>Kamm De</u>	sign			
	Address: 274 Pa	rk Street			
			MA 7:-	. 02450	
	City: Newton	State:	MA_Zip	:02458_	
DESCRIPTIO YEAR: 2 COLOR: DESCRI	Black MO	KE: <u>Lifetime</u> DEL: <u>IPT4-5</u>	e Lo Riser 516		
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48