PLANNING COMMISSION AGENDA CITY OF PRAIRIE VILLAGE TUESDAY, APRIL 4, 2017 7700 MISSION ROAD 7:00 P.M.

- I. ROLL CALL
- II. APPROVAL OF PLANNING COMMISSION MINUTES MARCH 7, 2017
- III. PUBLIC HEARINGS
- IV. NON-PUBLIC HEARINGS

PC2017-102 Site Plan Approval for a shade structure

Asbury United Church/Children's Center

5400 West 75th Street

Zoning: R-1a

Applicant: Adam Winzenried for Asbury Children's Center

PC2017-103 Temporary Use Permit - Summer Treatment Program

4801 West 79th Street

Zoning: R-1a

Applicant: Children's Mercy Hospital

- V. OTHER BUSINESS
 Staff Interpretation on Solar Panels
- VI. ADJOURNMENT

Plans available at City Hall if applicable
If you cannot be present, comments can be made by e-mail to
Cityclerk@Pvkansas.com

*Any Commission members having a conflict of interest, shall acknowledge that conflict prior to the hearing of an application, shall not participate in the hearing or discussion, shall not vote on the issue and shall vacate their position at the table until the conclusion of the hearing.

PLANNING COMMISSION MINUTES March 7, 2017

ROLL CALL

The Planning Commission of the City of Prairie Village met in regular session on Tuesday, March 7, 2017 in the Municipal Building Council Chambers at 7700 Mission Road. Chairman Nancy Wallerstein called the meeting to order at 7:00 p.m. with the following members present: Melissa Brown, Patrick Lenahan, Gregory Wolf, Jeffrey Valentino and Jonathan Birkel.

The following persons were present in their advisory capacity to the Planning Commission: Chris Brewster, City Planning Consultant; Wes Jordan, Assistant City Administrator; Serena Schermoly, Council liaison and Joyce Hagen Mundy, Commission Secretary.

APPROVAL OF MINUTES

Mr. Birkel noted his comments on page 7 of the minutes referenced 71st Terrace, not 71st Street as recorded. Gregory Wolf moved for the approval of the minutes of the February 7, 2017 regular Planning Commission meeting with the corrected noted by Mr. Birkel. The motion was seconded by Patrick Lenahan and passed by a majority with Mrs. Brown abstaining.

PUBLIC HEARINGS

PC2017-01

Amendment to Prairie Village Zoning Regulations repealing Design Guidelines for Countryside East Homes Association PVMC 19.25.010

Chairman Nancy Wallerstein announced that this is a public hearing on a proposed ordinance revision which will begin with a presentation by city staff of the proposed changes. This will be followed with questions from the Commission. Then the public hearing will be opened with individuals coming to the podium and providing their name and address for the record.

Wes Jordan, Assistant City Administrator, stated that in 2013 the Prairie Village City Council approved the establishment of the Countryside East Neighborhood Overlay District and adopted the associated Design Guidelines to address remodeling and/or rebuilding of homes within the Countryside East Homes Association. This effort was a partnership between residents and City Staff to focus on "big ticket" items affecting the character of the neighborhood such as overall height of structures, side yard setbacks, etc.

Since the enactment of the Overlay District in 2013, there have been challenges administering the Overlay which will be addressed at the Public Hearing. And, with the successful adoption of the new city-wide building height and side set back zoning

restrictions that went into effect in July 2016, City Staff and the Countryside East HOA Board recommend the Overlay be discontinued.

City Staff and the Planning Commission have engaged in ongoing discussions about the mechanics of the Overlay that led to the Planning Commission suggesting that City Staff reach out to the HOA Board to discuss the current challenges and recommendation of the Commission to have a unified acceptance of the new building standards. In discussion with the HOA President, Leslie Darrington, we believed that it was important to communicate with the residents and also explain the challenges of the Overlay District.

On November 14th, 2016, Wes Jordan (Assistant City Administrator) and Chris Brewster (contracted City Planner) attended the annual Countryside East HOA meeting and discussed the following challenges with the enforcement of the Overlay District. :

Mr. Jordan stated that since the presentation on November 14th, 2016, the HOA Board has formally voted to discontinue the Overlay. Mr. Jordan acknowledged the considerable work that went into the development of the Overlay by residents and City Staff. Those efforts were not in vain; rather, are a part of the foundation of the new building standard restrictions that were recently enacted city-wide by the City Council.

Chris Brewster with Gould Evans, contracted City Planning Consultant, stated a "Neighborhood Conservation Overlay District" is defined as a carved out area for distinct treatment. This was done in 2013 for the Countryside East Homes Association with specific guidelines that are only applied to this area. This is the only Neighborhood Conservation Overlay in Prairie Village.

Mr. Brewster reviewed the following challenges with the district as presented to the homes association in November: Overlay

- 1. Four appeals of City Staff findings to date all overturned by the appeals board.
- 2. Struggles with the structure of the appeals board and being placed in a quasijudicial role with neighbors.
- 3. Appeals have no outline for process or decision criteria.
- 4. Two sets of zoning standards are confusing to residents and more difficult to administrator
- 5. Concerns over vagueness and legal enforcement of some guidelines.
- 6. Inconsistency.....
 - a. Between the Overlay and Private Covenants
 - b. Between Overlay and Design Guidelines
 - c. Between Overlay and City-wide Zoning (some duplication/some conflicts)
 - d. Some Overlay Design Guidelines illustrations/comments are confusing.

The Countryside East Neighborhood Conservation Overlay District establishes the following additional standards and guidelines:

1. Upper story limits of 1 ½ story

- 2. Eave line relationships of the existing home to the adjacent property
- Façade design windows, dormers/roof slopes, garage off-sets, porch/stoop encroachment
- 4. Accessory unit prohibition; outbuilding limits
- 5. Side setbacks of 12.5% of lot width on each side
- 6. Minimum square footage

Mr. Brewster reviewed the following zoning changes that were adopted by the City in June, 2016:

- 1. Change in height interpretation reducing height limit
 - a. Change from measurement at mid-point to measurement at highest point
 - b. R-la maximum height is 35 feet
 - c. R-lb maximum height is 29 feet
- 2. Change in side setbacks
 - a. 4' minimum to 6' minimum in R-lb
 - b. 5' minimum to 7' minimum in R-la
 - c. At least 20% of lot width (can be allocated between both sides)
- 3. Addresses first-floor elevation problems with top of foundation allowances
- 4. Retained maximum lot coverage restriction of 30%

Mr. Brewster reviewed graphic representations of the impact of the adopted revisions to code.

Gregory Wolf asked if the overlay was repealed would restrictions be addressed through the covenants. Mr. Brewster replied if they are stated in the covenants they would be enforceable that way. If they are not currently included in the covenants, they would be difficult to add at this point.

Mr. Brewster noted as an ordinance change the Planning Commission will be making a recommendation to the Governing Body who will take the final action. The options before the Planning Commission are to recommend to the Governing Body

- That the Overlay District be repealed
- That no action be taken
- That the Overlay District be modified. Mr. Brewster noted that this action would require the direction of the Council for staff to spend the additional time required to amend the overlay guidelines.

Wes Jordan added that when the Overlay District was enacted there was no indication of the city revising its zoning regulations to address the issues addressed by the Overlay District. He believes the enactment of the Overlay District served as a catalyst to the City Council to proceed with amendments to the zoning regulations to restrict the size of buildings. The formation of the Overlay District was an important first step in addressing residents' concerns with overbuilding. Mr. Jordan added that on March 20th staff will make a presentation to the City Council on potential additional revisions to the city's zoning regulations.

Mr. Jordan noted that the building official has been working with an individual who is caught between the inconsistencies between the overlay district and city code that may be bringing legal action against the city.

Nancy Wallerstein asked Mr. Jordan to explain how the city came from the enactment of the overlay to its position today.

Mr. Jordan replied that the Planning Commission directed staff to reach out to the Homes Association Board regarding the challenges it was experiencing enforcing the overlay district guidelines and to present the new zoning guidelines that were adopted and how they address the concerns with building height and setbacks. Staff talked with members of the Board and discovered that the Board was also experiencing challenges with the overlay guidelines. Staff was invited by the Board to speak at the annual meeting of the homes association and did so in November. At that meeting the challenges were presented. No action was taken at the meeting. Its purpose was to educate the residents. Following the meeting, staff stayed in contact with the Board. In January, the Homes Association Board voted to support the repeal of the overlay district. Staff prepared the letter to announce the public hearing on the proposed repeal, which was reviewed by the Board. Per statute, this notification was sent to all residents of the Countryside East Homes Association and all property owners within 200' by certified mail. The Board sent out the same notification through their e-mail listing to ensure members that may not pick up their certified letter received notice of the hearing.

Gregory Wolf confirmed that no legal action has been filed at this point in time.

Leslie Darrington, 5120 West 66th Terrace, is the current Vice President of the Countryside East HOA Board and has also served previously as the President of the Board. Mrs. Darrington verified the accuracy of Mr. Jordan's statement of actions. She noted that there has been significant communication between the Board and city staff. She stated that Board has also experienced problems with the appeal process and that the Homes Association does not have the resources to uphold the Overlay Design Guidelines on its own.

Chairman Nancy Wallerstein opened the public hearing on PC2017-01.

Melissa Rawe, 4816 West 65th Terrace, stated that at the November 14th annual meeting of the Homes Association the members agreed that they did not have enough information to take action and felt that others not in attendance needed to receive the information as well. Then she received a letter from the Board stating that they had voted to support the repeal of the Overlay Guidelines. She asked what happened between that meeting and the Board's vote. Mr. Jordan stated city staff remained in contact with the Board and noted that this public hearing is the formal opportunity for the members to make comments, ask questions and voice concerns and/or support. There was no second public information meeting of the homes association held.

Dan Blom, 5408 West 64th Terrace, noted the annual meeting notice did not indicate any discussion of "repealing" the overlay district. As a member of the initial committee

working on the Overlay Guidelines and former board member, Mr. Blom provided background on the formation of the Overlay Guidelines and District. He stated the concept originated with the City. At a meeting of area homes association presidents, concern was expressed with deed restrictions being challenged and not enforced. The particular challenge was in the Prairie Village Homes Association to their one and a half story regulations.

One year later, with the support and encouragement of city staff, Countryside East entered into a partnership with the city to become a beta test of Overlay Design Guidelines. The guidelines/district was discussed over a three year period at annual meetings and in neighborhood meetings. In 2010, the entire association was surveyed by mail regarding the initiation of the Overlay District with 92% of the residents in support. There were at least three different presentations made by then Assistant City Administrator Dennis Enslinger on the formation of the Overlay District. Both the Planning Commission and the City Council voted unanimously in support of the Overlay District. This document was not cast in stone and they were advised adjustments could be made and even that other neighborhoods may adopt similar guidelines using theirs as a template. For that reason the appeals process was designed to be universal in nature.

Mr. Blom asked for respect for the intense participation that went into the creation of the Overlay District. He noted it is possible in the past four years, individuals may have changed their opinion on the value and need for the Overlay District, however, it is critical that be confirmed before any action is taken to repeal the District. Before that decision is made he believes the following should occur. The residents need to also be informed of the consequences of the repeal, of the objectives of the Overlay District and of alternative plans to enforce the restrictions. What are the consequences of the city and staff backing away from a substantial commitment made to the homes association to implement and enforce these guidelines? What attempts have been made to modify the guidelines to address the challenges. Mr. Blom stated the ramifications of the repeal are consequential. He added that a public hearing is not good public engagement. A vote by the City to repeal the Overlay District would be an extreme disservice to its creation.

Mr. Blom stated he does not believe this recommendation has been completely thought through in terms of the neighborhood and the residents. Statements were made about the difficulty interpreting the drawings in the guidelines; however, the architect who drew the drawings has never been asked for clarification. This action is a complete reversal of the commitment made by the city in 2013 to the Countryside East Homes Association.

Nancy Wallerstein responded that in 2013 when the Planning Commission was asked to approve the Overlay District to restrict rebuilding size, the city's zoning regulations did not appropriately address this concern. Since that time, new zoning regulations have been adopted citywide that do address building height, mass and setback.

Mr. Blom noted the appeal process was created because Board members did not want to put in an adversarial position with its members.

Melissa Brown questioned how the neighbors could not be aware of the new guidelines. Mr. Jordan replied he could not speak for the Board, but noted the city attempted to do its due diligence in attending the homes association meeting.

Jim Nass, 5101 West 64th Terrace, asked for clarification of his deed restrictions and if the City could issue a building permit that violated those deed restrictions. Chris Brewster replied that if the plans meet city codes a building permit can be issued. Deed restrictions are a private contract between the home owner and association that are not enforceable by the City. The city can only enforce its regulations. Jeffrey Valentino added that deed restrictions are enforceable, but by private entity, not the city. Mr. Brewster added that the City does not have copies of all the deed restrictions within the City.

Councilmember Jori Nelson wanted to address the Commission. Chairman Nancy Wallerstein advised Ms Nelson that as a member of the Governing Body which would be taking final action on this application, she should not speak at this time. By doing so, she would need to recuse herself from taking action when the item came before the Governing Body. Ms. Nelson advised those present that she was their representative and encouraged them to contact her.

Todd Wetherilt, 6344 Ash, stated he came prepared to discuss the consequences of the repeal. However, there appears to be a much bigger issue. He was part of the committee creating the overlay design guidelines and architect who drew the illustrations. He feels the larger issue is the partnership that was formed between the City and the homes association to develop design standards that would be enforceable, recognizing that the city cannot enforce deed restrictions and covenants and homes associations often do not have the resources to enforce them. With the city now saying that it is not willing to enforce the design guideline it now falls back on the homes association to enforce their deed restrictions and covenants. With the city unwilling to enforce them, the only enforceable regulations are the city's zoning regulations.

Wes Jordan responded that the City does want to work with the community. He stated that after this Overlay District was enacted, the Prairie Village Homes Association approached the city for assistance in creating an overlay. Staff believes that the city cannot become a city of multiple overlay districts. At this same time residents were expressing concern with the growing number of larger homes being rebuilt on existing lots starting the city on the path towards stronger zoning regulations regarding height, mass and setbacks. Discussed at the same time was the creation of design standards. There was significant pushback. Focus was placed on zoning regulation to create guidelines that could be enforced throughout the city. Mr. Jordan added that already in the city's code is a restriction that the footprint of a home cannot exceed 30% of the lot. This together with the new regulations has placed the city in a much better position to regulate new construction and remodel construction.

Nancy Wallerstein responded to the question regarding the enforcement of covenants and deed restriction stating that this is the responsibility of the Homes Association. She

noted that some homes associations require all building plans to be reviewed and approved by them before they are submitted to the city for a building permit.

Mr. Nass expressed concern that if the city would not enforce covenants and deeds restrictions that homes associations did not have the resources to do so that nothing would be done.

Jeffrey Valentino noted the Overlay District applies to a specific area of the city. The City is trying to address these concerns throughout the city with revisions to zoning regulations that apply to all properties. There may be a gap between the Overlay District Guidelines and the new zoning regulations; however, he feels it has gotten smaller on major items.

Jim Nass questioned how a single guideline or regulation can be applied effectively to all homes within the City. He does not feel the same standards can be applied to vastly different neighborhoods. He would like to see the current Overlay Design Guidelines amended to preserve the integrity of his neighborhood.

David Davis, 4800 West 65th Street, lives in a 1200 square foot home with a single garage and was one of the appeals to the Overlay District Board to expand his home. He came to speak in support of the repeal; however, noted that maybe there were ways to make changes that would give property owners the ability to grow into their homes and still maintain the character of the neighborhood. He feels options must be available to residents. He noted there is variety within the association and feels this conversation is an opportunity to think about how to address the challenges being faced both by the city and by residents of Countryside East. People are concerned that they have not been heard and it makes sense to stop and talk more.

Michael Pate, 5006 West 63rd Terrace, stated deed restrictions and covenants can only be enforced by the homes association. The city's enforcement capability applies only to its zoning and building codes. The City can backup its requirements, as a legal document deed restrictions must be backed up by the courts.

Peter Gogol, 5019 West 65th Terrace, has spent 9 years on the homes association board and was president in 2013 when the Overlay District was enacted. The first two years the Board was pleased with how it was functioning and several building permits were issued. He thanked the current board for their service and city staff. He understands the challenges. The first notice he received on this was the certified letter from the city. There was no mention of a possible repeal of the Overlay District in the annual meeting notice. There was also nothing on the homes association website hosted by the City.

Mr. Gogol noted that although the new city guidelines may address some of the issues addressed by the Overlay District, it does not address them all. The Overlay District specifically addresses front porch dimensions, which are not addressed by code, as well as other issues. The results of the survey (92%) overwhelmingly endorsed the Overlay District. Opinions may have changed, but before action is taken, it needs to be

presented to the Homes Association. At this point in time, he recommends that no action be taken or a recommendation to Council for modification of the document. He stated that from its creation, it was anticipated that at some point in time the guidelines would need to be modified.

Greg Wolf asked what the consequence would be of continuing this application. At this point in time, it is clear that some residents have not had the opportunity to discuss this amongst themselves and with the Board. Mr. Jordan replied "none". He added that one of the things that have vet to be revisited is Phase II of the recently adopted code revisions. The City Council decided to wait to see the impact on the Phase I on building before proceeding with any further restrictions. Mr. Jordan stressed the City cannot become a city of multiple overlay districts. He feels the challenges with the existing Overlay District will continue to be discussed. The responsibility for the discussion between the Board and its members rests with the Board. He noted that at the homes association meeting several in attendance indicated that they were not aware of the Overlay District Design Guidelines. Mr. Jordan confirmed with the Secretary that no new notice would be required if the public hearing were to be continued. He noted that the city sent out over 500 certified letters of notification for this hearing. Mr. Wolf stated that he is not comfortable with the Commission moving forward until the residents have had an opportunity to talk with their Homes Association Board and suggested that the application be continued. Mr. Valentino agreed with Mr. Wolf, however, he felt there needed to be specific information to be brought back to the Commission when the hearing was reconvened.

Mr. Wolf asked what type of notification was given by the Board. Leslie Darrington replied that e-mails and a post card were mailed to all residents prior to the annual meeting. Mrs. Darrington noted that she had two calls since the annual meeting regarding the Overlay District. She acknowledged that the post card stated there would be "discussion of the Overlay District, not Repeal", since the Board had not made any decision at that point. She agrees that many of the residents have no knowledge of the Overlay District Design Guidelines. She acknowledged there are inconsistencies and problems with the covenants vs. the design guidelines vs. city code. Mr. Wolf confirmed that the homes association could hold a special meeting.

Mrs. Darrington asked if the city has the resources to back the Overlay District and work to make modifications and if it was worth going down that path. She feels there needs to be more than conversation. There needs to be a solution. Mr. Wolf responded that his concern at this time is the process. The Commission will be in a better position to take up the merits of the application, after everyone has had due process regarding the application.

Nancy Wallerstein asked how many of the individuals present were at the annual meeting and had heard the presentation by city staff. Approximately half of those in attendance indicated they attended the annual meeting.

Leslie Darrington asked if it would be possible for the City to notify the Homes Association if a building permit request came in for a large home.

Jonathan Birkel noted that some of the Phase II design guidelines take the same ideas that are expressed in the Countryside East Design Guidelines and asked if it would be helpful to discuss those. Mr. Jordan replied that staff would need the City Council to weigh in. He would have a better idea of Council's position after March 20th. Mr. Birkel felt that Phase II covered 90-95% of the items in the Overlay District and he feels these residents would be supportive of those actions. Mr. Jordan stressed that the direction for Phase II must come from the City Council and there is no push for immediate action. He would anticipate this process would take several months to complete and would be an even longer process than Phase I.

Gregory Wolf stated that he voted in support of the Overlay District in 2013 because there was an obvious consensus between the homes association board and the residents. He does not see that consensus existing at this time and moved the Planning Commission continue PC2017–01 to its May 2nd meeting to allow for continued discussion between the Board and the residents with the goal being consensus on the action to be taken. The motion was seconded by Jeffrey Valentino.

Nancy Wallerstein noted that this would provide sufficient time for additional meetings. Also, the city staff will have more direction from the City Council after their March 20th meeting on how to proceed with Phase II. However, she agreed with Mr. Jordan that the development and approval of Phase II will take significant time.

Wes Jordan asked what the Commission's expectations were for the continuation.

Jeffrey Valentino stated he saw the continuance as an opportunity for the homes association board and the residents to engage in dialogue regarding the proposed repeal, to define the differences between what is addressed by their overlay design guidelines and the newly adopted city code and to determine what restrictions from the established overlay design guidelines they feel must remain in place. They need to come to a better understanding of what the Overlay District provides and what the city regulations provide. This communication needs to be driven by the homes association board.

Melissa Brown encouraged the residents to evaluate the recently adopted city regulations and to look at what they have in the overlay district guidelines. She does not feel that there are a lot of issues uncovered when you look at the overlay district guidelines and the city regulations side by side. The City is seeking to retain and allow beautiful homes with the potential for growth to meet the needs of its owners.

Patrick Lenahan echoed Mr. Birkel's thoughts that a consensus could be influenced by what direction changes to the zoning code takes. He would suggest that the approach should be for the Commission to take no action at this time. Continuing for 60 days may not result in a solution. Mrs. Brown agreed, but feels the first step is to get the residents engaged. Mr. Wolf replied that the Commission may after 60 days decide to take no action, but he wants to ensure that the residents have the opportunity to fully engage prior to the Commission taking any action.

Jonathan Birkel asked if the draft documents regarding potential design standards could be given to the homes association. Mr. Jordan replied that they are public documents; however, noted that when presented to the City Council, the Council's direction was not to approve them at that time because of the strong pushback. He felt he would have a better idea of the direction of the Council after the meeting on March 20th.

Chairman Nancy Wallerstein stated she would take comments from the gentleman who was at the podium and the woman who at the beginning of the meeting wanted to address the Commission.

Chris Lipp, 4805 West 66th Street and current President of the Homes Association stated that he gets calls from residents frequently. He has received one call regarding the proposed repeal of the Overlay District and has received several from residents questioning the restrictions in place by the Overlay District from members who want to make changes to their homes. He requested direction from the Commission on its expectations of the Homes Association Board when it returned in May. He noted that as a Board they are concerned with potential litigation and are sometimes unable to give complete feedback because of potential litigation. While he has only been president for two months, he has served on the Board for 3 years and stated that the Overlay District has been a constant challenge for them.

Jeffrey Valentino summarized his expectations for the Board as follows:

- To Engage residents
- To define the differences between what is provided by the Overlay District and what is provided by the City code
- Determination of what restrictions, not provided by city code, must be retained.

Gregory Wolf stated what he wants during this time is for education to take place and for residents to be heard. He does not feel this has occurred and is not comfortable taking any action until it does.

Jeannine Mattoon, 4801 West 65th Terrace, thanked Mr. Wolf for his comments. She stated that when she arrived at the meeting, she felt she had been duped and had not been given enough information. Residents did not understand the implications of the letter and the proposed action. People do not understand what the Overlay District is. She wants time to learn more and to react to the information acquired. She asked how residents will be notified of the new meeting date. Chairman Nancy Wallerstein stated no new notices will be sent by the City. The meeting will be Tuesday, May 2nd at 7 p.m. It will be reflected on the city's website and she would anticipate that the homes association would ensure that its members get word of the continued meeting. It is their responsibility to communicate with their members.

The motion to continue the public hearing for PC2017-01 to the May 2nd meeting of the Planning Commission was voted on and passed by a vote of 6 to 0.

NON PUBLIC HEARINGS

There were no Non-Public Hearing applications to come before the Commission.

OTHER BUSINESS

None

NEXT MEETING

The secretary confirmed both an application before the Board of Zoning Appeals and the Planning Commission have been submitted for April 4th.

ADJOURNMENT

With no further business to come before the Commission, Chairman Nancy Wallerstein adjourned the meeting at 9 p.m.

Nancy Wallerstein Chairman

STAFF REPORT

TO: Prairie Village Planning Commission

FROM: Chris Brewster, AICP, Gould Evans, Planning Consultant

April 4, 2017, Planning Commission Meeting DATE:

Application:

PC 2017-102

Request:

Site Plan Approval - Accessory Shade Structure

Property Address:

5400 W. 75th Street

Applicant:

Asbury United Church / Children's Center, Adam Winzenried

Current Zoning and Land Use:

R-1B Single-Family District- Church

Surrounding Zoning and Land Use: North: R-1B Single-Family District - Single-Family Dwellings East: R-1B Single-Family District - Single-Family Dwellings South: R-1A Single-Family District, C-O Office Building District -

Office and Institutional buildings

West: Residential and Planned Residential (Overland Park, KS) -County Wastewater and Williamsbrook Johnson

Condominiums

Legal Description:

PRAIRIE FOREST LOT 17 PVC 2088 BOTA 93 834 TX [Note, the applicant also owns Lots 10-12, 15, 16, 18, and 19 related to this

subject lot]

Property Area:

0.29 Acres (12,499 s.f.) - subject lot; approximately 4.19 Acres

(182, 516 s.f.) – entire property / campus.

Related Case Files:

None

Attachments:

Application, site plan, accessory structure specifications, concept

images

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General Location Map



Aerial Map



April 4, 2017 - Page 3

COMMENTS:

Asbury United Church owns several lots on the northeast corner of 75th Street and Nall Avenue in Prairie Village. Collectively this campus makes up approximately 4.2 acres. The properties are all zoned R-1B Single Family Residential. The campus is used for a church and other associated accessory uses, including a Children's Center that runs infant care, pre-school, and after care services related to the church's overall mission. All of these uses are permitted in the R-1B zoning district and the site is otherwise compliant with all zoning and development standards.

There is currently a playground located on Lot 17, that fronts on 75th Street just to the east of the main church building and parking area, on the southwest comer of 75th and Ash Street (Ash is a dead end stub that ends at the drainage way along Tomahawk Road, which forms the rear boundary of the campus property). The applicant is proposing to construct a shade structure over a portion of the play area. All new structures, including accessory structures (except for limited specific exceptions) require a site plan review and approval by the Planning Commission.

The proposed shade structure will be approximately 30' x 30', and have a maximum height of 14.' It is proposed to be located over the existing play equipment on the east side of the play area. The structure will be at least 20' back from the 75th street lot boundary and approximately 40' + from the Ash street lot boundary. This would meet all required setbacks in R-1B for the subject lot (Lot 17 orienting towards Ash Street) and if the campus were treated as a whole (4.19 acres orienting to 75th street – unenclosed structures can encroach up to 12' into the front setback, or up to 18' (required 30' setback). Further, this property is planned and designed as a campus, so despite meeting the all of the above standards applicable primarily to single-family homes, the proposed location is consistent with the overall campus layout of the property. The applicant owns all lots directly abutting the subject lot to the west, south and east.

The applicant gave notice and held a neighborhood meeting according to the Citizen Participation Policy, and will be able to provide a summary of this meeting for the Planning Commission.

Since the short-term use is for more than 30 days, it requires Planning Commission approval.

The Planning Commission may approve a site plan for an accessory structure provided the application meets the following criteria:

A. The site is capable of accommodating the buildings, parking areas, and drives with the appropriate open space and landscape.

The site is an existing church / campus that has been functioning at the same level of activity for several years. The site meets all applicable standards, and the proposed accessory structure will not cause any increase in activity on the site.

B. Utilities are available with adequate capacity to serve the proposed development.

This site is currently served by utilities and they should be adequate to serve the proposed use.

C. The plan provides for adequate management of stormwater runoff.

No changes in the existing site are proposed and therefore storm water runoff will not be affected.

D. The plan provides for safe ingress/egress and internal traffic circulation.

The existing parking area on the west side will provide adequate ingress/egress for the current uses of the site and campus. Additionally, Ash Street provides secondary access to the church and campus on the east side of the existing play area. Ash Street also has a pedestrian bridge and passage on the north end that provides access to the church/campus and the play area via Tomahawk. These existing conditions have served this site well and there is no anticipated increase in activity from the proposed accessory structure.

E. The plan is consistent with good land planning and site engineering design principles.

The proposed accessory structure is serving an existing play area within the campus. Design concepts from similar structures are provided and specifications for this specific structure are included with the application.

F. An appropriate degree of compatibility will prevail between the architectural quality of the proposed building and the surrounding neighborhood.

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The proposed structure is compatible with the design and use of the overall play area. It is located to meet all applicable setbacks. There is some existing vegetation associated with the play area, and located along the 75th Street frontage, so the applicant should clarify the intent of the overall landscape / streetscape in this area with regard to the design and function of the shade structure.

G. The plan represents an overall development pattern that is consistent with Village Vision and other adopted planning policies.

One of the primary objectives of Village Vision is to encourage reinvestment in the community to maintain the quality of life in Prairie Village. The existing use and campus design is consistent with this component of Village Vision and the proposed accessory structure will assist the Church and Children's Center in its mission.

RECOMMENDATION:

It is the recommendation of Staff that the Planning Commission approve the Site Plan subject to the following conditions:

- 1. That the structure be constructed per the attached site plan and specifications, and at the time of building permit, all other building code and safety aspects applicable to the structure be verified through staff permit reviews.
- 2. That the applicant confirm any immediate or longer-term landscape elements with regard to the play area and the shade structure, and further the Planning Commission consider if any of these activities would trigger any streetscape / landscape improvements along 75th Street.

SPECIAL USE PERMIT APPLICATION

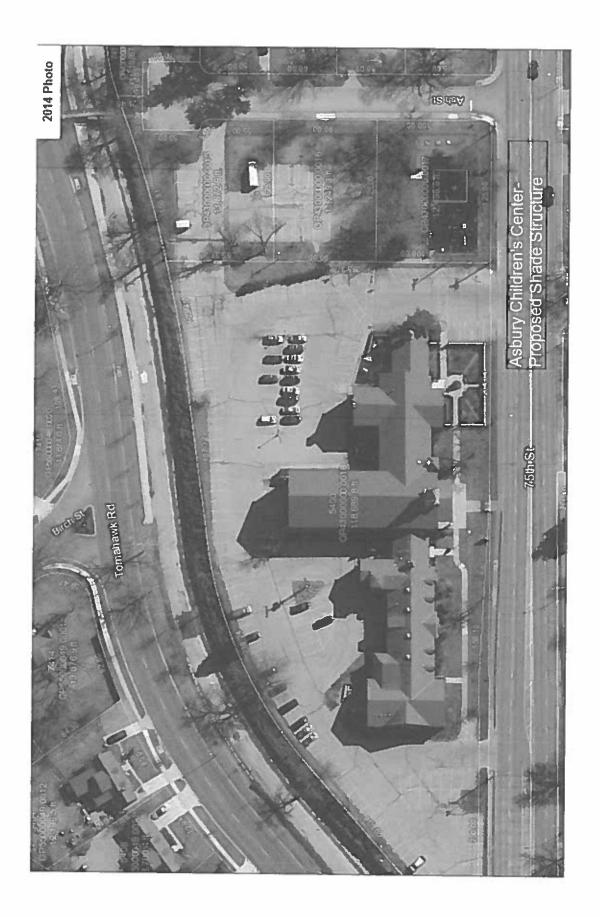
CITY OF PRAIRIE VILLAGE, KANSAS	For Office Use Only Case No.: PC 2017 102 Filing Fees: Deposit:
Asbury United Methodist Church /	Date Advertised: Date Notices Sent: Public Hearing Date:
Asbury Children's Center	Public Hearing Date: 4/4/1/7
APPLICANT: Ann Porter, Director	PHONE: 913-677-5008
ADDRESS: 5400 W 75th St	
OWNER: Same as above	PHONE:
ADDRESS: Same as above	ZiP:
LOCATION OF PROPERTY: Northeast corner of	
LEGAL DESCRIPTION: PRAIRIE FOREST LOT 17	
ADJACENT LAND USE AND ZONING: Land Use	Zoning
10 3	
North Church / place of worship South General office buildings	R-1B
East Residential	C-O R-1B
West Church / place of worship	R-1B
Present Use of Property: Children's Playground	
Please complete both pages of the form and return Planning Commission Secretary	to:

Please complete both pages of the form and return to:
Planning Commission Secretary
City of Prairie Village
7700 Mission Road
Prairie Village, KS 66208

		<u>Yeş</u>	No
1.	Is deemed necessary for the public convenience at that location.	X	
2.	Is so designed, located and proposed to be operated that the public health, safety, and welfare will be protected.	X	
3.	Is found to be generally compatible with the neighborhood in which it is proposed.	Х	
4.	Will comply with the height and area regulations of the district in which it is proposed.	X	
5.	Off-street parking and loading areas will be provided in accordance with the standards set forth in the zoning regulations, and such areas will be screened from adjoining residential uses and located so as to protect such residential use from any injurious effect.	X	
6.	Adequate utility, drainage, and other such necessary facilities have been or will be provided.	X	
Sho	ould this special use be valid only for a specific time period? Yes	No	<u> </u>
SIG BY:	X 1 1	3/8	117
- ,			

Attachments Required:

- Site plan showing existing and proposed structures on the property in questions, and adjacent property, off-street parking, driveways, and other information.
 Certified list of property owners





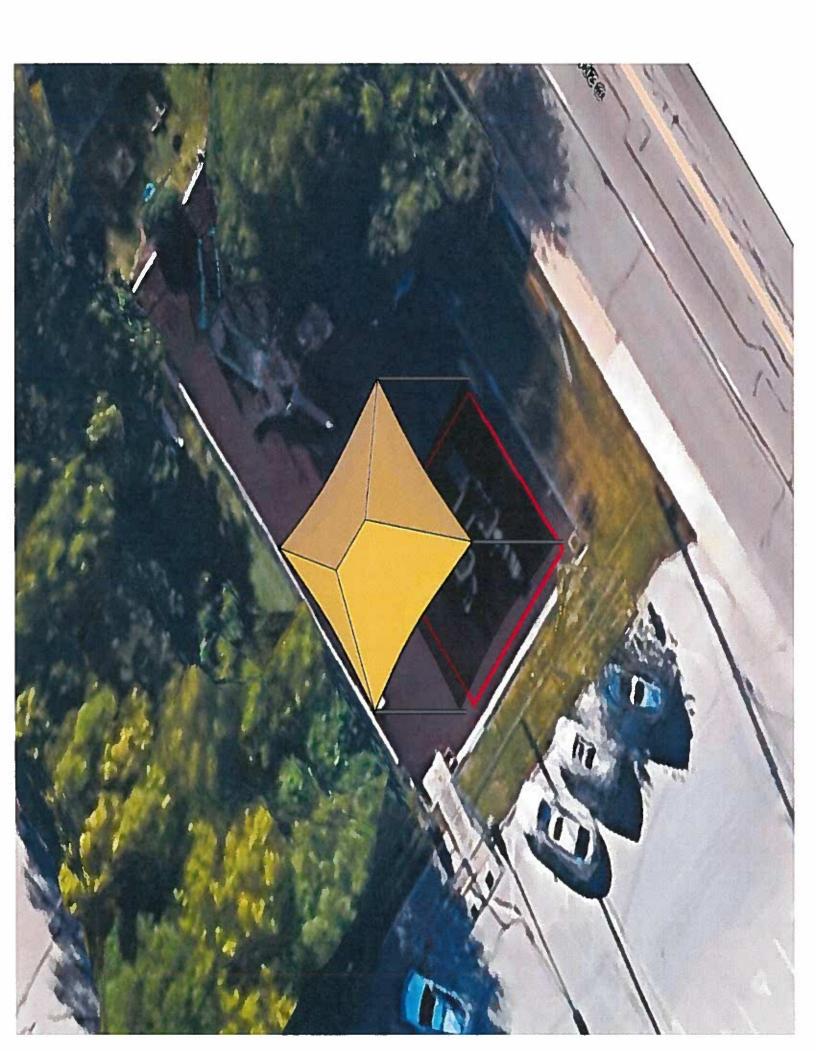
Notes about adjacent parcels

- All adjacent parcels on the north side of 75th Street are owned by Asbury United Methodist Church
- One parcel within 200 feet to the northeast is residential use
- Three parcels across 75th Street within 200 feet are non-residential use

Property Owners within 200 feet of parcel

- 7421 Ash (Residential), Zoned R1B
- 5301 W 75th, (Office) zoned R1A
- 5225 W 75th (Office) zoned C-O Business
- 5201 W 75th (Fraternal Institution) zoned C-O Business





Structural Calculations

for

Asbury Children's Center 26'X27' (4)-Pole Single-Canopy Shawnee Mission, KS 66208

Basis of Design	1
Canopy Layout and Tributary Areas	2
Calculaton of Design Wind Loads - Main Force Resisting Systems	3
Calculation of Design Wind Loads and Moments	4-7
Column and Foundation Calculations	8
Beam Calculations	9-10
Seismic Analysis vs. Design Wind Loads	11-12
Comm 95 Shade Fabric Specifications	13-14
Comm 95 Fire Rating Test Certificate	15-19

March 10, 2017

Structural Calculations and Design Details Applicable to Installation of One - 26'X27' (4)-Pole Single-Canopy at the Subject Site

AMMTec Consultants, PLLC

Consulting Engineering Services

GENERAL NOTES & BASIS OF DESIGN

AMM'TYE CONSULTANTS

I. BUILDING CODE IBC 2012 ASCE 07-10 2. GRAVITY DESIGN: Sail / Roof Sail Cloth Ventilation Reduction: N/A C EXPOSURE D Seismic Design Category = OCCUPANCY CLASS E Risk Category = П 3 SECOND WIND GUST 115 (mph) Live Load: 5 (psf) Dead Load: 0.50 (psf) Snow Load: 0 (psf) 3. SOILS: 1,000 psf 100 psf Soil bearing pressure Soil lateral bearing pressure 42 (inches) Unless local conditions are greater Minimum footing depth..... CONCRETE 1. CODES AND STANDARDS. Comply with the following Codes: A. ACI 318, "Building Code Requirements for Reinforced Concrete". B. ACI 347, "Recommended Practice for Concrete Form Work". 2. MATERIALS shall conform to the following: D. Air entrainment: ASTM C260 A. Cement; ASTM C150, Type V, Portland Cement. E. Fly ash: **ASTM C618** B. Hard rock aggregates: ASTM C33 F. Calcium chloride SHALL NOT be used. Lightweight aggregates: ASTM C330 C. Water shall be potable. 3. MIX DESIGNS: A. The maximum slump shall be 4" w/o plasticizer added. C. Limit fly ash to 20% of the total cement. B. Use pea gravel and/or plasticizer in congested areas. D. Concrete mixes shall conform to the following: 28 Day Min Max Entraine Design Dry Aggregate Cement Strength W/C Weight d Air Per CY Size Type of Concrete Member (inches) (psi)* Ratio (pcf) (%) (lbs) Footings & Slabs on Grade 2500* 0.45 150 3/4 3 ± 1 517 *(Special Inspection not required - increase as required by local code for sulphate resistance) 4. CONSTRUCTION: A. Mechanically vibrate concrete during placement. 5. FOOTINGS: B. Center footings on structure above, UNO. C. Exterior footings to be embedded a minimum depth. STEEL 1. CODES AND STANDARDS. Comply with: A. CRSI "Manual of Standard Practice". B. ACI "Detailing Manual", ACI 315 (or SP-66). 60 ksi A-615 - Grade 60 HSS Tube: 46 ksi Reinforcing: A -500 50 ksi A-792 - Grade 50 36 ksi A-501 Roof Decking: Pipe: Bolts ASTM A36, ASTM A307 as specified on details 2. CONSTRUCTION: A. Detail, bolster, and support all rebar. Tie bars securely with proper clearances before casting concrete. B. Use rebar free flaky rust, grease, dirt, and other materials, which affect bond. C. Minimum lap splices (inches): Bar# #3 #4 #5 #6 Inches 20 24 33 16 D. Make cold bends. DO NOT use heat. DO NOT re-bend a previously bent bar. E. Minimum concrete cover: (securely position and anchor rebar prior to pour) Cast against and permanently exposed to earth 3 (inches) Slabs-On-Grade (SOG) Center of slab, UNO F. DO NOT weld reinforcing unless specifically noted. CLIENT: Custom Canopies -

ı	PROJECT:	Asbury Children's Center 26'X27' (4)-Pole Single-Canopy	Prepared By:	MJK
ı		Shawnee Mission, KS 66208	Date:	03/10/17
•	· · · · · · · · · · · · · · · · · · ·			

AMM THE CONSULTANTS Member Weights psf Area Ttl Wt (lbs) Roof Type & Guage: Comm 95 or Equal 0.5 702 351 Misc Appurtenances & Matis 0 702 Ttl Wt (lbs) Wall "t" (in) L (ft) Bolt Dia / Grade FS Column / Member (in) plf OK FS@=2.24 Vertical Column A 4 Schd 40 Pipe t=0.12 9.6 26.0 249.7 5/8 A36 3" x 11 Gauge HSS Tube 40.0 92.2 1/2 A307 Bolt OK FS©=2,44 Ridge -2,3 3" x 11 Gauge HSS Tube 2,3 64.6 148.9 1/2 A307 Bolt OK FS@=1.01 Rafter Beam Sizing A307 Bolt OK FS@=1.02 Ridge/Rafter/Column Spigot 2.5" x HSS Tube, t=0.188" 2.3 12,0 27.7 1/2 870 Total/Column Roof Snow Load [IBC 1608, ASCE 7] 217 (Eq 7-1) p_i=0.7*C_c*C_t*I*p_g **Canopy Dimensions** p_=Ground Snow Load= 26 (ft) 27 (ft) 0 psf 0 psf Width Length 4 (Ttl) 1.0 [ASCE T 7-2] Column A Height 13 (ft) Columns: C. Exposure Factor= 0 (A) Column B Height C *= Thermal Factor= 1.2 [ASCE T 7-3] 12 (in) H 1.0 [ASCE T 7-4] Roof Pitch 2 (in) V I= Impoortance Factor= C = Sloped Roof Coeff= 1.00 [ASCE F 7-2] 15.5 (ft) horz rafter length Rafter Length (horz) (Eq 7-2) p,=C,*pf 0.0 psf Canopy Height 4.4 (ft) (above frame) $p_s =$ 0.0 (ft) Eave Overhang: Areas: C_{NW} = 351 SF 351 SF Total Hip Length 16.1 (ft) C_{NL} = Areas: C_{NW} = 351 SF C_{NL} = 351 SF Ridge Beam Length 10.0 (ft) 13.0 (ft) Ridge Beam Trib Width

Strut/Brace Length (Horz)

(ft)

,			
CLIENT:	Custom Canopies -		
PROJECT:	Asbury Children's Center 26'X27' (4)-Pole Single-Canopy	Prepared By:	MJK
	Shawnee Mission, KS 66208	Date:	03/10/17

CONSULTANTS

Calculaton of Design Wind Loads - Main Force Resisting Systems

ASCE 7-10

Exposure: c

(mph): 115

Risk Category: 2

3s Wind Gust (mph): 115

												٠, ١			
		Eq:	p=q _h *G*	'C _N	1	(Eq 6-25) [[29]		Canopy Fabric Design Wind Speed						
į	z.	Exp			Where:	$q_h = 0.$	00256 * k	$z^*k_{zt}^*k_D^*$	V^2*I	(Eq	27.3-	-1) [260]			
	ft	С			z =	15	$k_z =$	0.85		(T 2	7.3-1) [261]			
	15	0.85]				$k_{zl} = (1$	+ k ₁ *k2*	$(k_3)^2$	(F 2	6.8-1) [253]			
	20	0.9						$k_1 =$	0.29	H/L	0=H	(F 26.8-1) [253]			
	25	0.94] .	(T6-I)				$k_2 =$	1.0	X/L	_H =0	(F 26.8-1) [253]			
	30	0.98		Category	I			$k_3 =$	0.0	Z/h _i	_H =Z/0	(F 26.8-1) [253]			
	35	1.01]	I	0.87	- ►	$k_{zt} =$	1.0							
	40	1.04]	II	1.00		$k_D =$	0.85		(T 26.6-1)	[250]				
	45	1.065]	III	1.15		V=	115 m	ph	(F 26.5-1A)	(247	7a]			
	50	1.09		IV	1.15		I = 0	1.0		(T 6-1) [77]]				

 $q_h = 0.00256*0.85*1*0.85*115^2*1=$

24.46 psf

0.85

(S 6.5.8.1) [26]

 $q_h*G*(1-V)=$ 18.71 psf

 $C_N =$ (F6-18A) [66] Load Case A/B Case A - Clear/Unobstructed Wind Flow: γ=0⁰, 180° C_{NW} = 1.1 C_{NL} = -0.4 $\Delta C_N =$ 1.5 $C_{N(Avg)} =$ 0.35 Case B - Clear/Unobstructed Wind Flow: γ=00, 1800 0.1 -1.1 $\Delta C_N =$ 1.2 C_{N(Avg)} = $C_{NL} =$ -0.50

Rise Run Gable Roof Pitch = 2 12

1.13

60

Wind

9.5 Degrees

CN Values interpolated to 9.5 degrees

 $C_{NW} = p (psf)$ $C_{NL} = p (psf)$ -0.33 -6.11

-1.17

 $\alpha = 9.5$

Case A - Clear/Unobstructed Wind Flow: γ=0⁰, 180° 1.10 20.58 Case B - Clear/Unobstructed Wind Flow: γ=0⁰, 180^o 0.17 3.24

0.1

 $\Delta C_N =$ 1.43 $C_{N(Avg)} =$ 0.39 $\Delta C_N =$ 1.35 C_{N(Avg)} = -21.96 -0.50

CN Values interpolated to 9.5 degrees

 $C_{NW} = p (psf)$ C_{NL} = p (psf) $\alpha = 9.5$

-0.22

Case A - Obstructed Wind Flow: γ=0⁰, 180^o Case B - Obstructed Wind Flow: y=00, 1800

-1.49 -27.94 -1.00-18.71 0.50 9.36 -0.94 -17.59

 $\Delta C_N =$ -0.49 C_{N(Avg)} = -1.25

1.44 $C_{N(Avg)} =$

Main Wind Force Resisting System 0.25 £ h/l, £ j.0 Pitched Free Roofs $\theta \le 45^{\circ}$, $\gamma = 0^{\circ}$, 180° Net Pressure Coeffi-

Angle, 6	Case	Clear W	ind Here	Obstructed Wand Flove			
Angle: 9	£ 25g	Cen	Cuc	Cuw	Cut		
7.5	Λ	1.1	-II 3	-16	-1		
4.3	P	0.2	+1.2	-09	-1.7		
13*	A	- 11	-0.4	11.2	. 12		
13	B	0 1	-1.1	-0.6	Jal 6		
22.5"	A	1.1	01	-1.2	141.2		
22.3	В	.0.1	-0 s	-08	-17		
30°	Α	1.3	0.5	-07	-0.7		
311	В	-0.1	-0.9	-02	-t.		
37.5"	A	1.3	0.6	-06	-D 6		
1/3	Ð	-02	-0.6	+42.3	-0.9		
45"	A	11	04	-0.5	-0.5		
43	В	-01	-0.5	-0.1	-0.7		

 $\Delta C_N =$

Wind Direction, g = 0°, 180°

Direction

CLIENT:	Custom Canopies -		
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					**					MA	MIT	W ()	DNSU	TITA	NTS
Calculat		_		ds - Main ited to 9.5		sisting Sys	stems C _{NW} =	p (psf)	C _{NL} =		TA'N' TH' N	BART AND A		9.5	OLD.
			•	ucted Wir	-	=0°, 180°	1.10	20.58	-0.33	-6.11	$\Delta C_N =$		C _{N(Avg)} =	0.39	
	24 1	15-70		N I I	7	Case A -	Clear/Unot	estructed V	Vind Flow	v=0° 180				0.00	111 8
W =	= 20.6	psf	S=	0,0	psf	Case A -	Cical/Ono	W =		psf	S=	0,0	psf		
L≖		psf	D =		psf			L=		psf	D =	0.5	psf		
	CNW =	1,10	р=	20.58	psf		ĺ		$C_{NL} =$	-0.33	p=	-6.1	psf		
			- 69		,										
	ASD			ons: (IBC			32.4,1 [8]					(IBC 2012 = upward ve	ASCE 7-10	S2.4.1 [8]
[Eq 1]		Note: N	egauve v	aiue = upw	rand venuca D=	0.5	nsf	[Eq I]		Note: Neg	auve value	= upward ve	D=	0.5	psf
[Eq 2]					D+L=	5,5		[Eq 2]					D+L=		psf
[Eq 3]				D+(Lr	or S or R)=	5,5	ľ	[Eq 3]				D+(Lr or S or R)=	5.5	psf
[Eq 4]			D+0.7	5L+0.75(Lr		4,3	l'	[Eq 4]			D		(Lr or S or r)*		psf
[Eq 5]		0.251 .0.24	40 4111 F	1919.0	V or 0.7E)=	12,9 13,5	ľ	[Eq 5] [Eq 6a]		12 : 0 74	0 76/0 600		*W or 0.7E)=		psf psf
[Eq 6a] [Eq 6b]	•) 7E)+0.75(L L+0.75(0.7E		0.5	l'	[Eq 6b]		D+0.7:	40.		(Lr or S or R)= .7E)+0.75S =		psi
[Eq 7]	-		D.0,15 .		D+0 6W=	12.7	ı. ı	[Eq 7]			2.0		0.6D+0.6W=		psf
[Eq 8]				0.6	D+0.7E =	0.3	psf	[Eq 8]					0.6D+0.7E =	0.3	psf
					93		() <u>=</u> (1								
[A]	Vertica	Forces					Vind Flow:		1 1		Unbalanc		Load Momen		; 1
+		C _{NW} =	C _{NL} =	C _{NW}	C _{NL}	C _{NW}	C _{NL}	Net		M Arm	M Arm	C _{NW}	C _{NL}	Vert Net	1
1		1.10 w (psf)	-0.33	Area (sf)	Area (sf)	V. Force	V, Force (lbs)	Uplift (lbs)	1	C _{NW}	C _{NL}	Moment (kip-ft)	Moment (kip-ft)	Moment (kip-ft)	-
[Eq 1]		0.5		351	351	176	176		1	0	0	(K)(p=11)	(KSD-II)	(K)(D=1()	(+) CW
[Eq 2]		5.5	5,5	351	351	1931	1931	N/A		0	0		-	•,	(+) CW
(Eq 3)		5.5		351	351	1931	1931	N/A]	0	0	_	-	-	(+) CW
[Eq 4]		4.3	4.3	351	351	1492	1492	N/A		0	0		-	-	(+) CW
(Eq 5)		12.9	-3.2 1.5	351 351	351 351	4510 4743	-1112 526	N/A N/A	ł	0	0		-		(+) CW (+) CW
[Eq 6a] [Eq 6b]		0.5	0.5	351	351	176	176		1	0	0	-		-	(+) CW
(Eq 7)		12.7	-3.4	351	351	4440	-1182	N/A	1	0	0	-	-		(+) CW
(Eq 8)		0.3	0.3	351	351	105	105]	0	0	-	-		(+) CW
	Max Be	aring (thi	s page)=	4743		Max Uplift	(this page)=	(1,182)	[Per Side]			Max V	ert Moment =	0.00	1
1	Horiz	ontal For	ces	[-X+]	l			Base Mom-	ent Calcula	lion - Vertic	al Column				
1		C _{NW} =		C _{NW}	C _{NL}	Net	1	Vert	C _{NW}	C _{NL}	Horz Net	1			
1		1.10	-0.33	H. Force	H. Force	H. Force		Column	Moment	Moment	Moment	1			
(F- 6)		w (psf)		(lbs)	(fbs)	(lbs)		(ft)	(kip-ft)	(kip-ft)	(kip-ft)	CW			
[Eq 5] [Eq 6a]		9.3		715 537	-212 -159	503 377		13,00 13.00	9,30 6,98	-2.76 -2.07	6.54 4.90				
(Eq 7)		12.4		715		503		13.00	9.30	-2.76		4			
		-						Max Horz	Moment (t	his page)=	6.54	•			
				nd Ridge V											
1		α=		degrees (\			-								
1	'			nobstructe C _{NW}			1								
1			C _{NL} =		C _{NL}	[C _{N(avg)}]	-								
		1.10	-0.33 w (psf)	V. Force (psi)	V. Force (psf)	V. Force (psf)									
	[Eq I					0.50	1								
	[Eq 2		 		5.50	5.50	4								
	[Eq 3				5.50	-	4								
	[Eq 4			4.25	4.25		4								
	[Eq 5		-	12.85 13.51	-3.17 1.50	4.84 7.51	4								
	[Eq 6b						4								
	[Eq 7	-					4								
		Max Ve		oading (th]								
				oading (th	is page) =	-3.17									<u>.</u>
CLIEN			m Cano		tor agiva	71 (4) 12-1	la Sinala C	`anca:	-		, n	annead Dr.	3.4 11/2		
PROJE	EU1:			en's Cen sion, KS		1 (4)-FO	le Single-C Pa	ge 4 of 19	 		¹⁷	epared By: Date:	MJK 03/10/17		-
1								J							

										a mar	MITTE	WA (C's)	NSU	FIFAR	TES
Calculate		_		s - Main l		isting Syst					VH. H.E				1 2.69
Ī				ated to 9.5	-	n	C _{NW} =		C _{NL} =	(565) 1 a kilo			α =	9.5	J
	Case I	3 - Clear	/Unobst	ructed Wii	nd Flow: γ			3.24	-I.17	-21.96	$\Delta C_N =$		C _{N(Avg)} =	-0.50	
						Case B -	Clear/Uno	bstructed W							
W =		psf	S =		psf			W =		psf	S =		psf		
L=	5	psf	= G 1	0.5 3.24	psf lc			L=	5 C _{NL} =	psf	D = 		psf		
	C _{NW} =	0.17	p=	3.24	pst				CNL	-1,17	p=	-21.90	psi		
	ASD	Load C	ombinat	ons: (1BC	2012 ASC	CE 7-10 S	2.4.1 [8]		ASD	Load Con	nbinatons:	(IBC 2012	ASCE 7-10	S2.4.1 [8]	
				alue = upw								= upward ve			_
[Eq 1]					D=	0.5	psf	[Eq 1]					D=	0.5	psf
[Eq 2]					D+L=	5.5	Ť	[Eq 2]					D+L=		psf
[Eq 3]			b . o .	•	or S or R)=	5.5	•	[Eq 3]			_		(Lr or S or R)=		psf
[Eq 4] [Eq 5]			D+0,7	5L+0.75(Lr	or Sort)= Var 0.7E)=	4.3 2.4	*	[Eq 4] [Eq 5]			U		i(Lr or S or r)= 6*W or 0.7E)=	-12,7	psf
[Eq 6a]	DH	75L+0.75	i(0 6W or (D+(0.6° v 0.7E)+0.75(Li		5,7	· .	[Eq 6a]		D+0.7	5L+0.75(0.6V		5(LrorSorR)=	-	psf
[Eq 6b]	•			L+0.75(0.7E	25/5	0.5	•	[Eq 6b]		90 130			7E)+0.75S =	\vdash	psf
[Eq 7]				. 563	D+0.6W=	2.2	psf	[Eq 7]				2,500	0.6D+0.6W=	-12.9	psf
[Eq 8]				0.6	5D+0.7E =	0.3		[Eq 8]					0.6D+0.7E =	0,3	psf
								-00							
[Y]	Vertical	Forces					Vind Flow:						Load Momen	T T	1
+		C _{NW} =	C _{NL} =	C _{NW}	C _{NL}	C _{NW}	C _{NL}	Net		M Arm	M Arm	C _{NW}	C _{NL}	Vert Net	
		0.17 w (psf)	-1.17	Area (sf)	Area (sf)	V. Force (lbs)	V. Force (lbs)	Uplift (lbs)		C _{NW}	C _{NL}	Moment (kip-ft)	Moment (kip-ft)	Moment (kip-ft)	-
[Eq 1]		w (psi)	w (psi) 0.5	351	351	176	` ,			0	0	(KID-II)	(KID-II)	(KID-IL)	(+) CW
(Eq 2)		5.5	5.5	351	351	1931	1931	N/A		0	0		-		(+) CW
(Eq 3)		5.5	5.5	351	351	1931	1931	N/A		0	0	0.40	-	-	(+) CW
[Eq 4]		4.3	4.3	351	351	1492	1492	N/A		0	0		-	-	(+) CW
(Eq 5)		2.4	-12.7	351	351	859	-4448			0	0	-	-	<u> </u>	(+) CW
(Eq 6a)		5.7	-5.6	351	351	2004	-1976			0	0	-	•	-	(+) CW
[Eq 6b]		0.5 2.2	0.5 -12.9	351 351	351 351	176 788	176 -4519			0	0	-			(+) CW (+) CW
[Eq 7] [Eq 8]		0.3	0.3	351	351	105	105			0	0	-			(+) CW
	Max Bea	ring (this		2004			(this page)=		ı [Per Side]			Max V	ert Moment =	0.00	-
					1										
	Horizo	ntal For		[-X+]			1	Base Mome			1	1			
		C _{NW} =		C _{NW}	C _{NL}	Net		Vert	C _{NW}	C _{NL} Moment	Horz Net	l			
		0,17 w (psf)	-1.17 w (psf)	H. Force (lbs)	H. Force (lbs)	H. Force (lbs)		Column (ft)	Moment (kip-ft)	(kip-ft)	Moment (kip-ft)	ł			
[£q 5]		1.9						13.00	1.47		-8.46	ccw			
(Eq 6a)		1.5	•9.9	85	-572	-488		13.00	1.10			ccw			
[Eq 7]		1.9	-13.2	113	-763	-650	J	13.00	1.47	-9.92		ccw			
		Determine	ina Ula c	nd Dides 1	lection! Fr-	FOE		max Horz	woment (t	his page)=	8.46				
		Determi	-	nd Ridge V degrees (\)								
				nobstruct			•								
		C _{NW} =	C _{NL} =	C _{NW}	C _{NL}	[C _{N(avg)}]	1			Horz Net	Vert Net	Ttl Base			
		0.17	-1,17	V. Force	V. Force	V. Force				Moment	Moment	Moment	1		
		w (psf)		(psf)	(psf)	(psf)				(kip-ft)	(klp-ft)	(kip-ft)			
	[Eq 1]			0.50	0.50	0.50			e A - γ=0	6.54	0.00				
	[Eq 2]		5.5	5.50	5.50	5.50		Cas	e B - γ=0 ⁰	8.46	0.00	0.00			
	[Eq 3]	5.5	_	5.50	5.50	5.50							Matair 11		
	[Eq 4]		_	4.25	4.25	4.25								maximum or determin	
	[Eq 5]		-12.7	2.45	 	5.11				<u> </u>	-		cantilever	hips at Car	nopy and
	[Eq 6a]	-	-5.6	5.71	-5.63	0.04					<u> </u>		Vertical Colu	ımns (follov	ving pages
	[Eq 6b] [Eq 7]			0.50											
	[~4 /			oading (th		5.71						1			
				oading (th		-12.67	1				\vdash	1			
CLIEN	T:	Custo	m Cono	nico			- 4					-			
PROJE	CT:	Asbur	y Childr	en's Cen	ter 26'X2	7' (4)-Pol	e Single-C	anopy Page 5 of			Pr	epared By:			_
Ι.		Shawr	nee Mis	sion, KS	66208			i age 3 or]	Date:	03/10/17		

	Calculaton of Design Wind Loads - Main Force Resisting Systems AMMTE CONSULTANTS														
Calculate		-				isting Syst					VR A I				ALD.
	CN		-	ated to 9.5 ructed Wii	_		C _{NW} =		C _{NL} =				α=[j
		Case	4 - Oust	incien wii	ilu Piow:)		-1:49	-27,94	-1:00	-18.71	$\Delta C_N =$		C _{N(Avg)} =	-1.25	
						Case	A - Obstru								
W =	-27.9 5	psf psf	\$ = D =		psf psf			W =		psf psf	S = D =	0.0 0.5	psf psf		
	C _{NW} =	-1,49	p=	-27.94	ı'				C _{NL} =	-1.00	p=	-18.7			
	-1444		"	2.071	11.2.				-146		-	100	lho.		
	ASD	Load C	ombinat	ons: (IBC	2012 AS	CE 7-10 S	2.4.1 [8]		ASD	Load Con	binatons:	(IBC 2012	ASCE 7-10	S2.4.1 [8]	
]		Note: N	egative v	alue = upw	2.0			(5 . 13		Note: Nega	ative value :	upward ve			ı. I
[Eq l] [Eq 2]					D= D+L=	0.5 5.5	ľ	(Eq 1) [Eq 2]					D+L=		psf psf
[Eq 3]				D+(Lr	or S or R)=	5.5	ľ	[Eq 3]				D+(LrorSorR)=		psf
[Eq 4]			D+0.3	75L+0.75(Li	or S or r)=	4.3	psf	[Eq 4]			D	+0.75L+0.75	(Lr or S or r)=	4.3	psf
[Eq 5]					V or 0.7E)=	-16.3	·	[Eq 5]		b. o #4	1 . 0 82.0 411		*W or 0.7E)=	-10,7	-l' I
[Eq 6b]	D+0	.75L+0.75).7E)+0.75(La L+0.75(0.7E		-8.3 0.5	'	[Eq 6a] [Eq 6b]		D+0.75		or 0.7E)+0.75 75*L +0.75(0	(Lr or S or R)=		psf psf
[Eq 7]			D. 0.75		D+0.6W=	-16.5	ľ	[Eq 7]			D.0.		0.6D+0.6W=	-10.9	-1' I
[Eq 8]				0.6	6D+0.7E =	0.3	psf	[Eq 8]					0.6D+0.7E =	0,3	psf
•	l							al 1000							
[Y]	Vertical						Wind Flow		1 1				Load Moment		i l
+	l	C _{NW} =		C _{NW}	C _{NL}	C _{NW} V. Force	C _{NL}	Net		M Arm C _{NW}	M Arm C _{NL}	C _{NW}	C _{NL}	Vert Net	- 1
		-1.49 w (psf)	-1.00 w (psf)	Area (sf)	Area (sf)	(lbs)	V. Force (lbs)	Uplift (lbs)	1	(ft)	(ft)	Moment (kip-ft)	Moment (kip-ft)	Moment (kip-ft)	
(Eq 1)		0.5	0.5	351	351	176	176	N/A]	0	0	¥	543	-	(+) CW
[Eq 2]		5.5	5.5	351	351	1931	1931	N/A		0	0	-	1.0	-	(+) CW
(Eq 3) (Eq 4)		5.5 4.3	5.5 4.3	351 351	351 351	1931 1492	1931 1492	N/A N/A		0	0	•		-	(+) CW
(Eq 5)		-16.3	-10.7	351	351	-5710	-3765	-9475		o	0	4	-	-	(+) CW
(Eq 6a)		-8.3	-4.2	351	351	-2922	-1464	-4386		0	0		(*)	-	(+) CW
[Eq 6b]		0.5	0.5		351	176	176	N/A		0	0	-	-	•	(+) CW
(Eq 7) (Eq 8)		-16,5 0.3	-10.9 0.3	351 351	351 351	-5780 105	-3836 105	-9615 N/A		0	0	-	•		(+) CW
	Max Bea	aring (this			331		(this page)=] [Per Side]		, ,		ert Moment =	0.00	-
				District Control											
	Horizo	ntal For		[-X+]	C	21-4	1	Base Mome				ı			,
		C _{NW} = -1.49	-1.00	C _{NW}	C _{NL}	Net H. Force		Vert Column	C _{NW} Moment	C _{NL} Moment	Horz Net Moment				
		w (psf)		(lbs)	(lbs)	(lbs)		(ft)	(kip-ft)	(kip-ft)	(kip-ft)				
[Eq 5]		-16.8	-11.2	-971	650	-321		13.00	-12.63	8.46		CCW			
[Eq 6a] [Eq 7]		-12.6 -16.8	-8.4 -11.2	-728 -971	488 650	-241 -321		13.00 13.00	-9.47 -12.63	6,34 8,46	-	CCM			
1-4-7				34.					Moment (I						ļ
1		Determ	ine Hip a	nd Ridge V	ertical Ford	ces									
		α=		degrees (\		0.75									
	(Inobstructo			1								
i		C _{NW} =	C _{NL} =	C _{NW}	C _{NL}	$[C_{N(avg)}]$									
l		-1.49 w (psf)	-1,00	V, Force (psf)	V. Force (psf)	V. Force (psf)	l								
1	[Eq I]			Ť	1	ī —									
1	[Eq 2]		5.5		5,50	5,50									
1	[Eq 3]		-				4								
1	[Eq 4] [Eq 5]		_		_		1								
	[Eq 6a]		_	 		6.25	1								
	[Eq 6b]	0.5	0.5	0.50	0.50	0.50	1								
	[Eq 7]		1		1										
	Max Vertical Loading (this page) = 13.50 Max Uplift Loading (this page) = -16.27														
CLIENT	ī:	-	m Cano		is page) =	-10.27									
PROJE		-			ter 26'X2	7' (4)-Pol	e Single-C	anopy			Pr	epared By:	MJK		
				sion, KS								Date	03/10/17		_

	ulaton of Design Wind Loads - Main Force Resisting Systems AMMTISE CONSULTANTS														
Calculate		-		ls - Main I		isting Syst		- /0	C _{NL} =		TAN W	BID 47		9.5	1 TA.Y.19
	CIV			ated to 9.5 ructed Wir	-	=0°. 180°	C _{NW} =	-27 <u>-</u> 94	-1.00	+18,71	ΔC _N =		C _{N(Avg)} =	-0.25]
			0 - 00311								ACN-		CN(Avg)	7.25	
101 -	-27.9	nef	S=	0.0	psf	Case	B - Obstru	cted Wind W =			S =	0.0	nef		
L=	5	psf	D =		psi psf			L =	5	psf psf	D=		psf psf		
-	C _{NW} =	0.50		-27.94	•			_	C _{NL} =	-1.00	_ p=	-18.7			
	-			-	•								ļ .		
	ASD			ons: (IBC			2.4.1 [8]		ASD				ASCE 7-10	S2.4.1 [8]	l
(6- 11		Note: No	egative v	alue = upw	1	force 0.5		FP= 11		Note: Neg	ative value :	upward ve	rtical force	0.6	psf
[Eq 1] [Eq 2]					D= D+L∞	5.5		[Eq 1] [Eq 2]					D+L=		psi psf
[Eq 3]				D+(Lr	or S or R)≖	5.5	r	[Eq 3]				D+(1	Lr or S or R)		psf
[Eq 4]			D+0.7	/5L+0.75(Lr	or S or r)=	4.3	psf	[Eq 4]			D.	+0.75L+0.75	(Lr or S or r)=	4,3	psf
[Eq 5]				-	7 or 0.7E)=	-16.3	ľ	[Eq 5] [Eq 6a]					*W oz 0.7E)=	-10_7	⊣ `
[Eq 6a]	[Eq 6a] 1)+0.75L+0.75(0.6W or 0.7E)+0.75(Lt or S or R)= -8.3 psf [Eq 6b] D+0.75*L+0.75(0.7E)+0.75S = 0.5 psf									D+0.75			(Lr or S or R)= .7E)+0.75S =		psf psf
[Eq 7] D+0./5*E+0./5(0./E)+0./55 = 0.5 psf								[Eq 6b] [Eq 7]			D.0.		0.6D+0.6W=	-10,5	H.
[Eq 8]				0.6	D+0.7E =	0.3	· .	[Eq 8]					0.6D+0.7E =		psf
[1]	Vertical			_					1				Load Momen		1
+		C _{NW} =	_	C _{NW}	C _{NL}	C _{NW}	C _{NL} V. Force	Net Uplift		M Arm C _{NW}	M Arm C _{NL}	C _{NW} Moment	C _{NL} Moment	Vert Net Moment	-
		0.50 w (psf)	-1.00 w (psf)	Area (sf)	Area (sf)	(lbs)	(lbs)	(lbs)		(ft)	(ft)	(kip-ft)	(kip-ft)	(kip-ft)	1 '
[Eq 1]		0.5		351	351	176	176	N/A		0	0	•	-	-	(+) CW
[Eq 2]		5,5	5,5	351	351	1931	1931	N/A		0	0	•	•		(+) CW
[Eq 3]		5.5	_	351	351 351	1931	1931	N/A		0	0	-	-	-	(+) CW
[Eq 4] [Eq 5]		4.3 -16.3	4.3 -10.7	351 351	351	1492 -5710	1492 -3765	N/A -9475		0	0	-	•		(+) CW (+) CW
[Eq 6a]		-8.3	-4.2	351	351	-2922	-1464	-4386		0	0	-	-		(+) CW
[Eq 6b]		0.5	0.5	351	351	176	176	N/A		0	0	1180		-	(+) CW
[Eq 7]		-16.5	-10.9	351	351	-5780	-3836			0	0	742	-	-	(+) CW
[Eq 8]	May Ba	0.3	0.3 s page)≃	351 1931	351	105 May Holift	105 (this page)=	N/A (5.780)	 Per Side]	0	0	May Va	ert Moment =	0.00) (+) CM
1		aring (all		4743			(all pages)=		[Per Side]			11142 11	-	0,00	
	Horizo	ntal For	_	[-X+]				Base Mome			al Column	1			
			C _{NL} =	C _{NW}	C _{NL}	Net		Vert	C _{NW}	C _{NL}	Horz Net				
		0.50 w (psf)	-1.00 w (psf)	H, Force (lbs)	H. Force	H, Force (lbs)		Column (ft)	Moment (kip-fl)	Moment (kip-ft)	Moment (kip-ft)				
[Eq 5]		-16.8		-971	650	-321		13.00	-12.63	1		ccw			
[Eq 6a]		-12.6	_	-728	488	-241		13.00	-9.47	6.34		CCW			
[Eq 7]		-16.8	-11.2	-971	650	-321		13.00	-12.63			ccw			
1		Determi	ine Hip a	nd Ridge V	ertical Ford	es				this page)= All Pages)=					
1		α=		degrees (\)		•	• •					
1	(Case A -	· Clear/U	Inobstructe	ed Wind F	low: γ=0°	_								
		$C_{NW} =$	C _{NL} =	C _{NW}	C _{NL}	$[C_{N(avg)}]$				Horz Net	Vert Net	Ttl Base			
		0.50	-1,00	V. Force	V. Force	V. Force				Moment	Moment	Moment			
	fr- 11	w (psf)	T	(psf)	(psf)	(psf)		C	- 40	(kip-ft)	(kip-ft)	(kip-ft)			
	[Eq 1] 0.5 0.5 0.50 0.50 0.50 0.50 [Eq 2] 5.5 5.5 5.50 5.50 5.50								c A - γ=0 c B -γ=0 ⁰		0.00	0.00			
	[Eq 2]				5.50			Cas	~ D - 1-0	8.46	0.00	0,00			
	[Eq 4]			4.25	4.25	4.25	1						Note: Use	maximum	moment
	[Eq 5]			-16.27	-10.73	13.50	1	Cas	e A - 180°	4.17	0.00	0.00	values f	or determin	nation of
	[Eq 6a]		-4.2	-8.32	-4.17	6.25		Cas	e B - 180°	4,17	0.00	0.00	cantilever Vertical Col	hips at Ca imns (follo	nupy and wing pages)
	[Eq 6b]	0.5			0.50]						•		
	[Eq 7]		-	1	0,30		l				15.51	h	40	. 1864-5-	_
				oading (th		13.50 -16.27	-		-	all pages)=		67.5	10 psf min pe -10 psf min p		
CLIENT	<u> </u>		m Cano	oading (th poies -	is bage) =	-10.27		-	max opnit (all pages)=	-10.27	1010. 038	- ro bar min b	a. IDOMOL	
	ROJECT: Asbury Children's Center 26'X27' (4)-Pole Single							апору			Pr	epared By:			
	Shawnee Mission, KS 66208										1		03/10/17		_

Vertical C		blood toods.	42.54 -	a.F.	AMM	TE CONSULT	ANTS
Note - Us	max co se 10 psf min co	mbined loads: mbined loads:	13,51 p		THIANTA	THE POTAL PRINT	THE A NEW
,,,,,,		α=		Fixed Base:	N		
Trib Area Ver	rtical Columns=	2		Hip Moment =	2	kip-ft	
Max Moment at Co			kip-ft				
Equivalent Force at 1		163				4000000	
	/ert / Column =	4,743		Total Pole U	p ft at Base =	(2,890) lb:	5
	Beam Moment =		kip-ft				
Total Co	lumn Moment =	2,11	kip-ft				
	Heavy Hex A-B	Dia (in)	Embed (in)	Vx Max (lbs)	Nz Max (lbs)	A-B Check	
Che	ck Anchor Bolt:	5/8	8	2,500	6,000	OK	
Vertical Column A			Co	ombined Columns=	8 1		
Total H _{pole} =	13.0	ft	Tube Type S	chd 40 Pipe			
Fy =	36.0	ksi	Nom Tube=	4.0	inches	Width (Rect HSS Only)=	8.0 in ³
Es=	30000	ksi	t(nom) =	0.120	inches		
	$Fy^*Z/(\Omega^*12) =$	4.745	I.D. =		inches		
Ω=1.67	1.18	in ³	Zx=	2.64			
$Z_{(min)}^{m}$ FS =	1,18	FS©=2.24	NI _{R(resultant)} =	OK 2.11	ft-kips 1		
1.9 -	.1	F-3-W-2.24		- OK			
Soil / Foundation (S		· · · · · · · · · · · · · · · · · · ·	W	ith CMU Surround			
kp =	100	- 0		Allowable Bearing		1,000 p	
Ms = (w*L ² /2*h ₃ *150)				kin Friction= F =	• p:	sf
Ms =	33,12	-	h ₁ =	3.50	feet	Endt Mana w/ Slah	N
Min Side = w = M _{resukant} =	2.11	inches kip-fl	Length = L =	60 FS _{uplift} =	inches 1.50	Fndt Mono w/ Slab [FS Actual =4.62]	N
FS _{averturning} =_		FS Actual =15.	67]	Pole Uplift =	2,890		
Fnd Wt =	13,125	lbs		Friction Resistance=		Fnd Uplift Resistance=	13,342
Column Wt =		lbs				Check	ОК
CMU Clmn Wt =	13,342	lbs		Fnd Bearing =	715	pst	
111 = [13/344	102					
Soil / Foundation -	Pier						
h ₃ =	4.5	feet (=54")	Fnd Wt =	2,121	lbs	h _i = Height of Applied Force=	13.0 ft
Min Diameter = b =	24	inches	Column Wt =	217	lbs	Soil Lateral Bearing Pressure=	100 psf
M _{resultant} =	2.1	kip-ft	Ttl =	2,338]	Increase Wind/Seismic Loading=	1.333
Constrained Lateral Resi	istanse	[IBC Eq 18-3]				Soil Lateral Bearing Pressure= Estimated Depth=	133 psf 4.50 ft
d=sqrt(4.25*(Mg/(S ₃ *b))		110/1200*2))=	1.94 fi	t Check Depth	OK	S ₃ =	1199.70
	-3q11(4.20 \Z	110/1200 2//-	1.5-7 11	C OHOOK DOPAR	OIL		1133.10
Unconstrained Lateral Re	esistance	[IBC Eq 16-1]		A=2.34*P/S1*b=	0.48	P=M/h _i =	163 lbs
d= 0.5A*{1+[1+(4.36*)	1 ₁ /A)]^1/2]			S ₁ =Allov	wable Lateral :	Soil Pressure=2*1.33*k _p *1/3*d=	399 lbs
d=0.5*0.48*{	1+[1+(4.36*13/	0.48)]^1/2]}=	2,85 f	t			
			(in*2)		Reinf, Bar#		pacing
Spread Foundation Cros Vertical Reinforcemen		2520 5.0	0.0020		N/A 5	N/A 7.0	N/A 9.0
Horzizontal Reinforcmen		3.8	0,0015		5	7.0	9.01
***************************************	: LogIIIIII).		(in^2)		Bar#	Quant S	pacing
Pier Foundation Cros	ss Section Area:	452	0.0020		4	5	7.5
Vertical Reinforcemen		0.9	0.0015		3	4.0	13.5
Horzizontal Reinforcmen	t Area As(min):	0.7					
1						1	
	Custom Canop		VANI /				
1	Asbury Childrei Shawnee Missi		X27' (4)-Pole Sin	igle-Canopy		Prepared By:	MJK 03/10/17
	OLIGINITE MISSI	on, NO 00200				Date:	00/10/1/

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Max combined loads: 13.51 psf Note - Use 10 psf min combined loads: 13.51 psf $\alpha = 9.5$

Ridge

Ridge Sizing

Ridge Beam Length:	10.00 (ft)	Ridge Beam Loading:	1,757 (lbs)
Ridge Beam Unbraced Length:	10.00 (ft)	Ridge Beam Loading:	175.67 (plf)
Didas Dasas Talk Wildels	42.00 (6)	Didas Daam Mamonts	

Ridge Beam Trib Width Ridge Beam Moment: 13.00 (ft)

Ridge Beam Trib Area: 130.0 (sf) $= M = w^L^2/(20^*1000) =$ 0.9 ft-kips

$Mu_{(resultant)} =$	0.88 ft-kips	$Z_{(mln)}=$	0.3	8 in3	
Tube Type HS	SS Tube	Nom Tube=	3	inches	
	Width	(Rect HSS Only)=		inches	
Fy =	46.0 ksi	Thickness =	1	1 Gauge	
$\mathbf{E}_{\mathbf{S}}=$	30000 ksi	t" =	0.119	6 inches	
[=	1.909 in4	O.D. =	3.00	0 inches	
Z=	0.935 in3	I.D. =	2.76	1 inches	
ΩMu=	$Fy*Z/(\Omega*12) = 2.15$	OK	FS =	- 1	FS©=2.44
Ω=1.67	Ridge -	3" x 11 Gauge HSS Tub	be	T	

Moment Couple at Ridge Beam Connection

 $Mu_{(resultant)} =$ 0.88 ft-kips 2 1/2 inches Beam End Loading= $0.88~{
m kips}$ $\mathbf{d} =$

(2) 0.5 A307 Bolts OK Top Bolt Force = 4.2 kips Bolt $Rn/\Omega v =$ 4 kips

Bolt Dia (in):	1/2	A307 B	olt	N/A
	Rv/Ω =	3	3.9	kips
Alternate Welded Cor	nection:	Use 3/16"	' wel	d all around.

Check Ridge Bracing Strut		Nom lube= $2.3/4$ (in)
Strut Length:	0.00 ft	Width (Rect HSS Only)= 2 3/4 (in)
Strut End Load:	439.2 lbs	t(nom) = 0.128 (in)
		rx = 2.630 (in)
Width to Thickness Ratio = b/t =	21.5	ry= 1.230 (in)
Limiting Thickness Ratio (190/Sqrt(Fy)	28,0	OK Min $[r] = 1.230$ (in)
1=	0.0	
k=	1.0	A= 1.342 (in^2)
kl/rx=	0.0	F _u = 327
kl/ry=	0.0	

Eq: (E2.2)	$F_a=12\pi'$	2*E/(23*(kl	/r)^2)
F _a =	N/A	(psi)	
	OK		

CLIENT:	Custom Canopies -		
PROJECT:	Asbury Children's Center 26'X27' (4)-Pole Single-Canon	by Prepared By:	MJK
	Shawnee Mission, KS 66208 Page 9 of 19	Date:	03/10/17

AMMTE CONSULTANTS

Rafter Beam

Max combined loads: 13.51 psf 13.51 psf Note - Use 10 psf min combined loads: $\alpha = 9.5$ Rafter Beam Sizing 15.5 (ft) Rafter Length: Check Dist Traingular Loading: Rafter Unbraced Length: 15.5 (ft) Rafter Trib Width: 13.0 (ft) Total Rafter Load: 1,364 lbs 101,0 (sf) RafterTrib Area: Equiv Dist Load: 176 plf Rafter Load at Column Spigot: 3,121 lbs = M = w*L^2/(20*1000)= 2.12 ft-kips 2.12 ft-kips $Z_{(min)}=$ 0.92 in3 $Mu_{(resultant)} =$ Tube Type HSS Tube Nom Tube= 3 inches Width (Rect HSS Only)= inches Fy =46.0 ksi Thickness = 11 Gauge Es= 30000 ksi t" = 0.1196 inches O.D. = 3.000 inches 1.909 in4 Z= 0.935 I.D. = **2.761** inches $\Omega Mu =$ $Fy*Z/(\Omega*12) =$ FS = 1.0 FS©=1.01 2.15 OK $\Omega = 1.67$ Canopy Rafter - 3" x 11 Gauge HSS Tube Moment Couple at Bolted Rafter Connection $Mu_{(resultant)} =$ 2.12 ft-kips 2.54 inches Beam End Loading= 1.12 kips d =Bolt Couple Quant = 1.00 (2) Top Bolt Force = 10s 10.00 kips Top Bolt Force = Bolt Rn/Ωv= 1/2 A307 Bolt N/A 4 kips Bolt Dia (in): $Rv/\Omega =$ OK 8.6 kips Alternate Welded Connection: Use 1/8" weld all around. Check Ridge/Rafter/Column Spigot Max Moment= 2:12 ft-kips 2.12 ft-kips 0.92 in3 $Mu_{(resultant)} =$ $Z_{(min)}=$ Tube Type HSS Tube Nom Tube= 2 1/2 inches Width (Rect HSS Only)= inches 46.0 ksi 0.188 inches Fy =t(nom) = $E_{S}=$ 30000 ksi $t^{\prime\prime\prime} =$ 0.188inches 1.559 in4 O.D. = 2.500 inches [= **Z**= 0.943 in3 I.D. = 2.124 inches $\Omega Mu =$ $Fy*Z/(\Omega*12) =$ OK FS©=1.02 FS =2.16 $\Omega = 1.67$ Ridge/Rafter/Column Spigot 2.5" x HSS Tube, t=0.188" Check Rafter Bracing Strut Nom Tube= 2 1/2 (in) Strut Length: Width (Rect HSS Only)= 2 1/2 (in) 0.00 ft Strut End Load: 682.1 lbs t(nom) =0.120 (in) rx= 2.630 (in) Width to Thickness Ratio = b/t = 20.8 ry= 1.230 (in) OK Min[r] =1.230 (in) Limiting Thickness Ratio (190/Sqrt(Fy) 2B.0 1.142 (in^2) = 0.0 A= 597 k= F_u= 1.0 Eq: (E2.2) F_a=12π^2*E/(23*(kl/r)^2) kl/rx=0.0 kl/ry= 0.0 F = N/A(psi) OK CLIENT: Custom Canopies -PROJECT: Asbury Children's Center 26'X27' (4)-Pole Single-Canopy MJK Prepared By:

03/10/17

Date:

Shawnee Mission, KS 66208

AMM'TEE CONSULTANTS

IBC 2012 ASCE 07-10 Seismic Design Requirements - Equivalent Lateral Force Proced

USGS—Provided Output

Shawnee Mission, KS 66208

S₈ = | 0.112 | S_{MS} = | 0.179 | S_{DS} = | 0.119 |
S₁ = | 0.063 | S_{M1} = | 0.151 | S_{D1} = | 0.101

REFERENCE

IBC/CBC Section 1613 Earthquake Loads

 $S_1 = =$

 $F_a = =$

Design Spectral Response Acceleration Parameters

Seismic Importance Factor	= 1.000		ASCE 7-05 Table 11,5-1
Soil Site Class =	D		IBC/CBC Table 1613.5.2/1613A.5.2
Site Coefficients			
Ss = =	0.112	Mapped Spectral Accelerations: Short Period	ASCE 7-05 Table 11.4-1;

			IBC/CBC Table 1613,5,3(2)/1613A,5,3(2)
$F_{5} = -$	2.4	Site Coefficient	ASCE 7-05 Eqn. 11.4-1;
			IBC/CBC Eqn. 16-37/16A-37

Site Coefficient

SMS = 0.179 Max Spectral Accelerations: Short Periods ASCE 7-05 Eqn. 11.4-2, IBC/CBC Eqn. 16-38/16A-38

Mapped Sectral Accelerations: 1 sec Period

Smi = 0.151 Max Spectral Accelerations: Isec Period

0.063

1.6

ASCE 7-05 11.4.4; IBC/CBC 1613.5.4/1613A.5.4

ASCE 7-05 Table 11.4-2;

IBC/CBC Table 1613.5,3(1)/1613A.5,3(1)

Sos =	0.119	5% Damped Spectral Acceleration; Short Period	ASCE 7-05 Eqn. 11,4-3;
Sot =	0.101	5% Damped Spectral Acceleration: 1 sec Period	IBC/CBC Eqn. 16-39/16A-39 ASCE 7-05 Eqn. 11.4-4;
			IBC/CBC Eqn. 16-40/16A-40

SDC = D Seismic Design Category ASCE 7-05 Tables 11.6-1 & 11.6-2

IBC/CBC Table 1613.5.6(1) & 1613A.5.6(2)

Equivalent Lateral Force Procedure

T =	$C_t h_{nX} =$	0.170	Fundamental Period	ASCE 7-05 Eqn. 12.8-7
	$C_t =$	0.020	Period Parameter	ASCE 7-05 Table 12.8-2
	x =	0.750	Period Parameter	ASCE 7-05 Table 12,8-2
	h _n =	17.389	Structure Height	
R =		1.250	Response Modification Factor	ASCE 7-05 Table 15.4-2
T _L =		12.000	Long-Period Transition Period	ASCE 7-05 Figure 22-15
C. =	Sos/[R/1] =	0.095	Seismic Response Coefficient	ASCE 7-05 Eqn. 12.8-2
where;				
C: >		0.030	Lower Limit	ASCE 7-05 Eqn. 15.4-1
C.>	$0.8 \text{S}_1/[R/I] =$	0.040	Lower Limit for S ₁ > 0.6g	ASCE 7-05 Eqn. 15.4-2
C3 <	$S_{DI}/T[R/I] =$	0.473	Upper Limit for $T \leq T\iota$	ASCE 7-05 Eqn. 12.8-3
Cs <	$S_{D1}T_{L}/T_{2}[R/I] =$	33.319	Upper Limit for T > TL	ASCE 7-05 Eqn. 12.8-4
!	Design Value C _s =	0.095		
W =		0.217	Per Column Dead Weight + Appurtenances W	/eight (kips)
V =	C _s W =	0.021	Equivalent Seismic Base Shear (kips)	ASCE 7-05 Eqn. 12.8-1

Wind Base Shear (kips):

Lateral Wind Shear > Seismic Base Shear: Wind Controls Design

0.163

CLIENT:	Custom Canopies -		
PROJECT:	Asbury Children's Center 26'X27' (4)-Pole Single-Canopy	Prepared By:	MJK
	Shawnee Mission, KS 66208	3' Shade Canopy Ph	

☑USGS Design Maps Summary Report

User-Specified Input

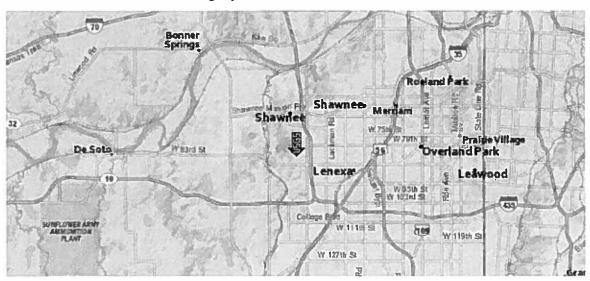
Building Code Reference Document 2012/2015 International Building Code

(which utilizes USGS hazard data available in 2008)

Site Coordinates 38.98703°N, 94.79054°W

Site Soil Classification Site Class D - "Stiff Soil"

Risk Category I/II/III



USGS-Provided Output

$$S_s = 0.112 g$$

$$S_{MS} = 0.179 g$$

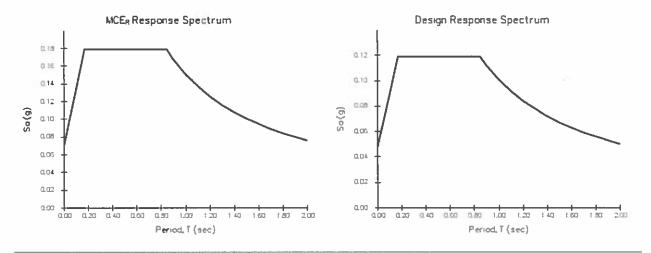
$$S_{ps} = 0.119 g$$

$$S_1 = 0.063 g$$

$$S_{M1} = 0.151 g$$

$$S_{p1} = 0.101 g$$

For information on how the SS and S1 values above have been calculated from probabilistic (risk-targeted) and deterministic ground motions in the direction of maximum horizontal response, please return to the application and select the "2009 NEHRP" building code reference document.



Although this information is a product of the U.S. Geological Survey, we provide no warranty, expressed or implied, as to the accuracy of the data contained therein. This tool is not a substitute for technical subject-matter knowledge.



Commercial 95

Architectural Shade Cloth

- Heavy duty, professional grade architectural shade fabric for tensioned structures and other shade applications.
- · Made from UV stabilized HDPE monofilament and tape yarns.
- Specialized lock stitch knit for more air movement and better channeling of cooling breezeways.
- · Constructed to block up to 98.8% of harmful UV sun rays.
- Heat set for ease of fabrication and to limit shrinkage.
- · Tear resistant and will not crack, rot or fade.
- 10 year manufacturer's warranty against UV degradation.
- Recyclable.



Fabric Color Options





#444976

Aquatic Blue #444938



#444969

Sky Blue #445034



#445041

Rivergum #445027



#445010

Brunswick Green #444952



Deep Ochre

#444990

Black #444945

Colors are representative only. Small variations in colors are representative only. Small variations in colors are representative only.



Commercial 95™

Architectural Shade Cloth

Physical Properties

Property	Test Method	US	Metric
Weight	ASTM D-3776	10.0 oz	340 gsm
Thickness	ASTM D-5199	61 mils	1.6 mm
Tensile Strength	ASTM D-5034 (grab test)	Warp: 208 lbs Weft: 486 lbs	Warp: 925 N Weft: 2161 N
Elongation	ASTM D-5034 (grab test)	Warp: 134% Weft: 94%	Warp: 134% Weft: 94%
Tear Strength	ASTM D-2261 (tongue test)	Warp: 51 lbs Weft: 52 lbs	Warp; 227 N Weft; 231 N
Burst Pressure(Mullen)	ASTM D-3786 (diaphragm test)	487 psi	3358 kPa
Burst Strength	ASTM D-3787 (ball burst test)	353 lbs	1570 N
Temperature Range		-22°F to +167°F	-30°C to +75°C

Flammability Tests	Result
ASTM E84, Class A -Flame spread index -Smoke developed index	PASS 25 105

Specification	US	Metric
Width*	9 ft 10 in	3 m
Length	131 ft	40 m
Roll Weight	97 lbs	44 kg
Roll Diameter	14 in	0.35 m
Core Diameter	1.4 in	35 mm

Note product is center folded when packaged.

Shade and UVR Properties

Color	Code	Cover Factor	Avg % Transmission	Shade Factor	Avg. UVR Transmission	Avg PAR Transmission	%UVR Block
Aqualic Blue	444938	96.7%	11.9%	88.2	5.8%	13.8%	94.2%
Black	444945	95.9%	5.1%	94.9	4.9%	5.1%	95.1%
Brunswick Green	444952	97.4%	4.4%	95.6	3.1%	4.8%	96.9%
Charcoal	444969	94.7%	5.8%	94.2	5.3%	5.8%	94.7%
Cherry Red	444976	94.9%	19.0%	81.0	9.0%	21.9%	91.0%
Deep Ochre	444990	95.4%	5.6%	94.4	3.3%	6.2%	96.7%
Desert Sand	444983	96.5%	15.8%	84.2	5.2%	19.0%	94.8%
Natural	445003	94.5%	21.1%	78.9	4.9%	25.9%	95.1%
Navy Blue	445010	96.4%	4.3%	95.7	3.2%	4.7%	98.8%
Rivergum	445027	95.7%	14.2%	85.8	7.0%	16.3%	93.0%
Sky Blue	445034	95.2%	5.3%	94.7	3.2%	5.9%	96.8%
Steel Grey	445041	97.3%	8.1%	91.9	3.3%	9.5%	96.7%
Terracotta	445058	93.51%	9.88%	90.12%	8.04%	10.52%	91.96%
Turquoise	445065	97.6%	10.4%	89.6	4.6%	12.2%	95.4%
Yellow	445072	94.6%	23.0%	77.0	6.7%	27.7%	93.2%

Tested according to AS 4174 synthetic shadecloth:

Avg. % transmission = Average % transmission within the 290-770nm spectrum.

Avg. UVR transmission = Average % transmission within the 290-400nm spectrum.

Avg. PAR transmission = Average % transmission within the 408-770nm spectrum.

Usage Instructions

Do not use against flames.

Contact with organic solvents, halogens or highly acidic substances may reduce the service life of the fabric and void the warranty.

Biaxial elastic material properties available on request.

Shade cloth fabric shall be Synthesis Commercial 95[™] knitted HDPE monofilament and tape shade fabric offering a UV block up to 98.8%.

Specification Instructions

The above results are typical averages from independent testing and quality assurance testing and are not to be taken as a minimum specification nor as forming any contract between Gale Pacific and another party. Due to continuous product improvement, technical specifications are subject to alteration without notice. Notice: As the use and disposal of this product are beyond Gale Pacific's control, regardless of any assistance provided without charge, Gale Pacific assumes no obligation or itability for the suitability of its products in any specific end use application. It is the suitability of the suitability of the suitability with any legal and patent regulations.

Gale Pacific USA Inc, 285 West Central Parkway, Suite 1704, Altamonte Springs, FL 32714, USA Tel: 1 407 772-7979 website: www.synthesisfabrics.com



TEST REPORT

CLIENT:

Gale Pacific USA, Inc.

285 W. Central Pkwy, Suite 1704 Altamonte Springs, FL 32714

Attn: Susan Yuskaitis

Test Report No:

654:030608

Date:

February 22, 2010

SUBJECT:

Testing to ASTM E-84

SAMPLE ID:

Sample identified as "Commercial 95" was received from the client on 2/19/10 in good condition. The sample was described by the manufacturer of containing the following

items:

Sample Description: Commercial 95Sample / Style Number: Commercial 95

Material Content: Knitted HDPE

Client PO: SY021609

TEST REQUESTED: Perform standard flame spread and smoke density developed classification tests on the

sample supplied by the Client in accordance with ASTM Designation E84-09a, "Standard Method of Test for Surface Burning Characteristics of Building Materials". The test

procedure is equivalent to UL 723, ANSI/NFPA No. 255, and UBC No. 8-1.

PREPARATION:

The sample material was submitted in one roll and trimmed to fit dimensions of tunnel,

measuring 21" by 24'. The sample was supported using rods and wire.

TEST DATE:

2/22/10

RESULTS:

Results can be found on the following pages and apply only to the sample tested.

CLASSIFICATION:

The sample received a 'Class A' rating in accordance with the NFPA and IBC classification

chart on page two of this report.

SIGNED FOR AND ON BEHALF OF SGS U.S. TESTING COMPANY INC.

neggres D Stall Greg Ertel

Engineering Technician

J. Brian McDonald

Fire Technology Department Manager

Page 1 of 5

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Client: Gale Pacific USA, Inc. Report No.: 654:030608

RESULTS:

SAMPLE:

Commercial 95

TEST DATE: 2/22/09

DATA:

Ignition (minutes: seconds)	00:06
Flame Front (feet)	4.0
Time to Maximum Spread (minutes: seconds)	7:00
Flame Spread	15
Smoke Developed	50

NFPA Class	IBC Class	Flame Spread	Smoke Developed
Α	Α	0 through 25	≤ 450
В	В	26 through 75	≤ 450
С	C	76 through 200	≤ 450

Total Test Time, (hr:min:sec): 0:10:00

Building Codes Cited:

- 1. National Fire Protection Association, ANSI/NFPA No. 101, "Life Safety Code", 2006 Edition.
- 2. International Building Code, 2006 Edition, Chapter 8, Interior Finishes, Section 803

Observations:

- Floor Burning
- Flaming / Dripping
- Melting

Page 2 of 5

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GRAPHICAL RESULTS:

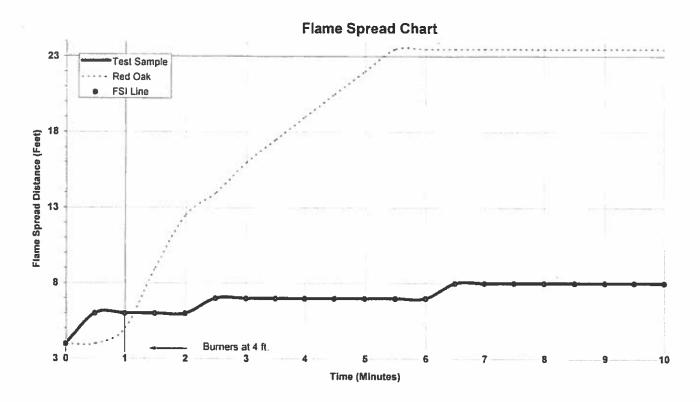
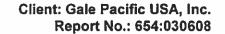


FIGURE 1. Flame Spread

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Smoke Developed Chart Test Sample 100 Red Oak 80 Light Absorption (%) 60 40 20 5 Time (minutes)

FIGURE 2. Smoke Developed

Page 4 of 5

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GRAPHICAL RESULTS: (Cont.)

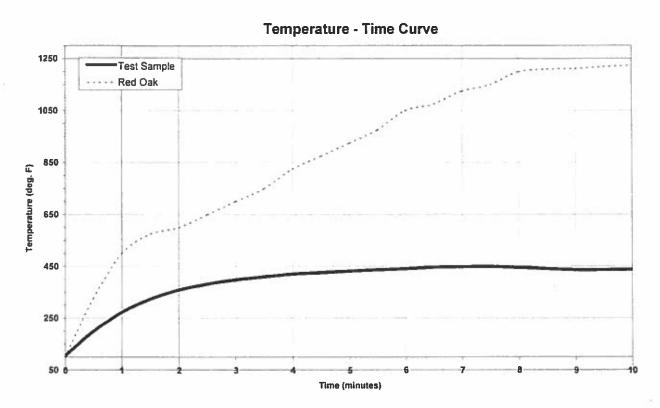
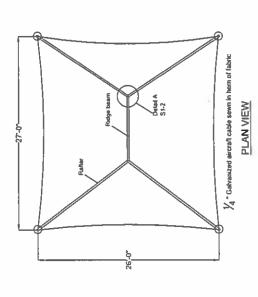


FIGURE 3. Temperature - 24 ft. Air Stream Thermocouple

End of Report

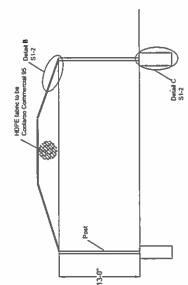
Page 5 of 5

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DESIGN CRITERIA Designed to conform to IBC 2010

Wind speed: 115MPH



_	1 Book	Supplemental Control of the Control	A COUNTY OF THE PARTY OF THE PA	2. 2 Mar 10 2017; Q-	TANSNS TO THE STATE OF THE STAT	THE SOUND TO THE PARTY
MATERIALS LIST	4" Schedule 40 pipe	3" x 11ga Round Tube	3" x 11ga Round Tube	2.5° x.188 Round Tube	} ~ A307 S/S Bolts	
	Post	Rafter	Ridge beam	Ridge/Post beam spigots	Rafter bolts	

Shawnee Mission, KS 66208 240 JSA XZX

FOOTINGS

for round with a min. width equal Concrete F'c = 2500 psi (Min.) Square footing can be substi Course agregate - 3" (Max.) Slump 4.0" +/- 1" W/C ratio = .54 (Max.) to diameter measurement.

AB CREATIVE

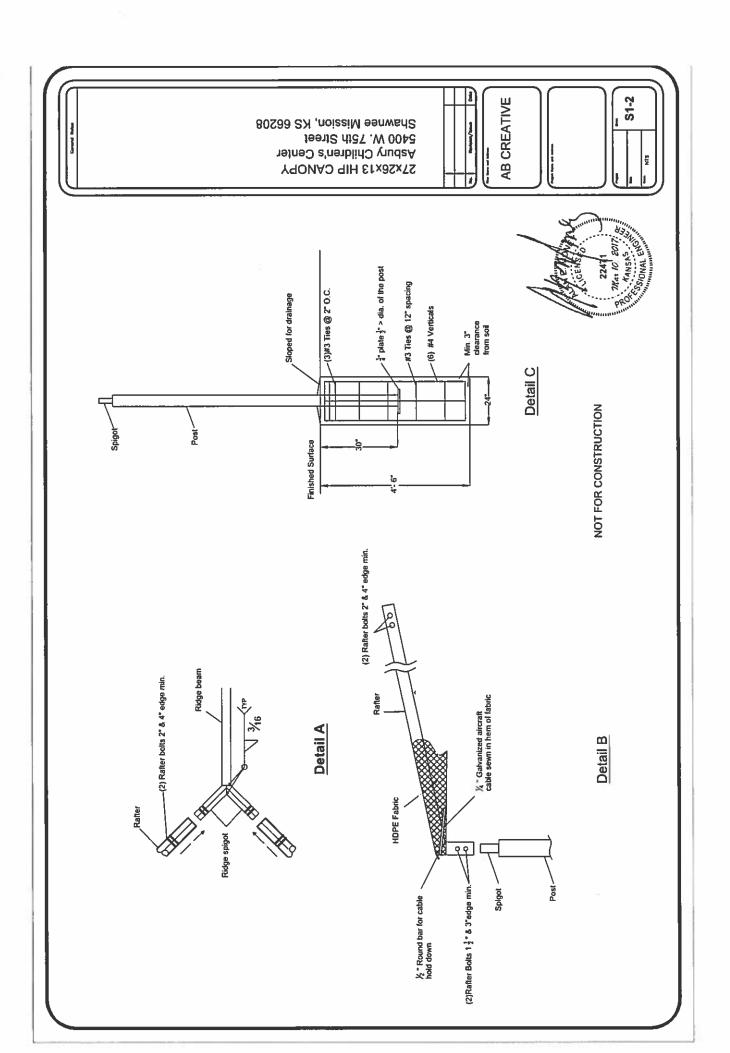
shrinkage. Nominal farbric mass 9.38 to 10.32 oz. sq. yard. FABRIC HDPE Stentered to reduce

CLEARANCE FROM OTHER STRUCTURES Canopies shall be at least 6" away from any other structure which may be damaged due to deflection.

51-1

Ę

) 1e 8003:	HIP CANOPY hildren's Cente Sth Street	bury Cl 00 W. 7
STEEL. Structural steel shall conform to ASTM A-36 Machine bolts shall conform to ASTM A-307 Pipe columns shall conform to ASTM A-53 Grade B	WELDING Welding shall be done by AWS D1.1 Structural certified welders.	REINFORCEMENT Rebar shall conform to ASTM A 615 Grade 60 Clearance from soil shall be a minimum of 3"	SOIL CAPACITY Allowable bearing pressure 1000psf Allowable lateral bearing pressure 100psf	FOOTINGS Square footing can be substituted for mured with a min width annot



STAFF REPORT

TO: Prairie Village Planning Commission

FROM: Chris Brewster, AICP, Gould Evans, Planning Consultant

DATE: April 4, 2017, Planning Commission Meeting

Application:

PC 2017-103

Request:

Temporary Use Permit for ADHD Summer Treatment Program

Property Address:

4801 W. 79th Street

Applicant:

Children's Mercy Hospital

Current Zoning and Land Use:

R-1A Single-Family District- Kansas City Christian School

Surrounding Zoning and Land Use: North: R-1B Single-Family District - Single-Family Dwellings

East: R-1A Single-Family District - Single-Family Dwellings
South: R-1A Single-Family District - Single-Family Dwellings
West: R-1B Single-Family District - Single-Family Dwellings

Legal Description:

Metes & Bounds Abbreviation (28-12-25 E 826.75' OF W 1159' OF N 421.50' NE 1/4 NW 1/4 EX N 30' 7.43 ACRES PVC 624A BOTA #0708-

87-TX)

Property Area:

7.44 Acres (55,557 s.f.)

Related Case Files:

PC 2016-108 Temporary Use Permit for ADHD Summer

Treatment Program

PC 2015-105 Temporary Use Permit for ADHD Summer

Treatment Program

PC 2014-110 Temporary Use Permit for ADHD Summer

Treatment Program

PC 2008-08 Amendment to SUP

PC 98-07 Original SUP for Private School

Attachments:

Application

April 4, 2017 - Page 2

General Location Map



Aerial Map



April 4, 2017 - Page 3

COMMENTS:

Children's Mercy South is proposing to provide an eight-week Summer Treatment Program for approximately 50 children with ADHD. The program is proposed at the Kansas City Christian School from June 12, 2017 through July 28, 2017. The hours of operation will be 7:30 am to 5:30 pm; Monday, Tuesday, Wednesday, and Friday; and 7:30 am to 8:00 pm on Thursday. Staff will train the previous week, June 5th through June 9th. The program will use several classrooms, the lunch room, the gymnasium, and the outdoor playgrounds. The proposed Summer Treatment Program will use the existing building, parking lots, and outdoor areas and there will be no changes made to the property. Therefore, no site plan was required.

The Planning Commission approved the same Summer Treatment Program in 2014, 2015 and 2016. Kansas City Christian School and the City did not receive any complaints about the use.

Since the short-term use is for more than 30 days, it requires Planning Commission approval.

The Planning Commission may approve the temporary use permit provided that the application meets the following:

1. The applicant shall submit in written form a complete description of the proposed use, including drawings of proposed physical improvements, estimated accumulation of automobiles and persons, hours of operation, length of time requested, and other characteristics and effects on the neighborhood.

The applicant has provided a detailed description of the proposed operation, as follows:

The applicant has submitted a description of the program, floor plans of the area to be used. The applicant stated on the application that the program will be provided from 7:30 am to 5:30 pm; Monday, Tuesday, Wednesday, and Friday; and from 7:30 am to 8:00 pm on Thursday from June 12th until July 28th. Staff training will occur from June 5th through June 9th. There will be approximately 50 children and 27 staff (20 counselors, 2 teachers, and 5 psychologists). There will be no external changes to the facility or grounds so it should have no adverse effects on the neighborhood. The program will use approximately 50 parking spaces for either drop of or day parking. The site is more than adequate to accommodate them. This provides a needed service for the community and is a good use of a facility that would remain unused for the summer.

2. If approved, a specific time period shall be determined and a short-term permit shall not be operated longer than the period stipulated in the permit.

The applicant has requested that the short-term use be approved for the period from June 12, 2017 through July 28, 2017, with staff training June 5 through June 9, and that would be the maximum time of operation that would be permitted.

3. Upon cessation of the short-term permit, all materials and equipment shall be promptly removed and the property restored to its normal condition. If after giving full consideration to the effect of the requested short-term permit on the neighborhood and the community, the Planning Commission deems the request reasonable, the permit for the short-term use may be approved. Conditions of operations, provision for surety bond, and other reasonable safeguards may be written into the permit. Such permit may be approved in any zoning district.

There will be no external changes to the building and grounds; therefore, no adverse effects on the adjacent neighborhood.

RECOMMENDATION:

It is the recommendation of Staff that the Planning Commission approve the temporary use permit for an ADHD Summer Treatment Program at 4801 W. 79th Street subject to the following conditions:

- 1. That the temporary use permit for the ADHD Summer Treatment Program be approved for a period from June 12, 2017 through July 28, 2017, with staff training June 5 through June 9.
- 2. That the hours of operation shall be from 7:30 am to 5:30 pm on Monday, Tuesday, Wednesday, and Friday, and 7:30 am to 8:00 pm on Thursday.
- 3. That the Summer Treatment Program use the existing building, parking, driveways, and playgrounds and will make no external changes to the property.

April 4, 2017 - Page 4

4. That the applicant properly maintain the exterior area of the property and will leave it in an acceptable condition when the program ends on July 28th, 2017.

Date: 3/22/17

TEMPORARY USE PERMIT APPLICATION City of Prairie Village, Kansas

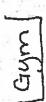
Amount received Date Rec'd by
(signature of applicant) See reverse for conditions of approval
Training week for staff June 5-June 9 Submitted by:
Period requested from: Jone 12 to July 28
Chief characteristics and checks on neighborhood,
Other characteristics and effects on neighborhood;
Estimated accumulation of automobiles 50 and persons 30 compers 3 teachers 50 psychologists
7:30A-5:30p Man, Tues, Wed, Fr. Hours of Operation: 7:30A-8:00p Thurs.
Please indicate what types of signs, flags or other devices will be used to attract attention:
Attach any descriptive materials such as plans, maps or size dimensions, etc. to better illustrate the proposed use.
Location: 4801 W 79th St Prairie VIllage, KS LoledO8
1100 0 0 101 100
Please give a complete description of proposed use: 7-week Summer day treatment program for Children with Antio. 9 1
Exposition Promotional venture / entertainment
USE: Sale / activity Trade show Street Fair
Is the organization (check all that apply): Non-profit Authorized to do business in the State of Kansas Incorporated
Address 5520 College Blud, Scite 365 City/State/Zip Overland Park, KS 662
Name Childrens Mery Hopital Summer Treatment Program for ADHO Organization Children's Mery Hopital Phone 913-696-5740
Name Childrens Mery Hoptal Summer Trainment Program for ADHO

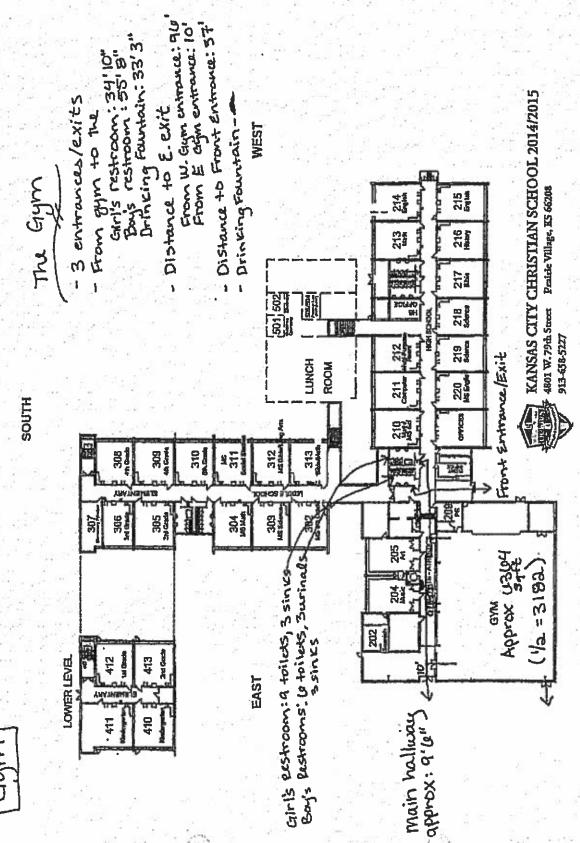
As outlined in Chapter 19.34.040 (E) of the Prairie Village Municipal Code, the Planning Commission may, upon application by the proponent, issue a Temporary Use Permit for a period of more than thirty days for the use of a specific parcel of land for such temporary uses as charitable, civic, or sales and activities, trade shows, street fairs, expositions, promotional ventures and entertainment, without publication or posted notice, provided the following conditions are met:

- 1. The applicant shall submit in written form a complete description of the proposed use, including drawings of proposed physical improvements, estimated accumulation of automobiles and persons, hours of operation, length of time requested, and other characteristics and effects on the neighborhood;
- 2. If approved, a specific time period shall be determined and the Temporary Use Permit shall not be operated longer than the period stipulated in the permit;
- 3. Upon the cessation of the Temporary Use Permit, all materials and equipment shall be promptly removed and the property restored to its normal condition. If, after giving full consideration to the effect of the requested short-term permit on the neighborhood and the community, the Planning Commission deems the request is reasonable, the permit for Temporary Use may be approved. Conditions of operation, provision for surety bond, and other reasonable safeguards may be written into the permit. Such permit may be approved in any zoning district.
- 4. If the applicant is not the property owner, a letter shall be supplied to the City from the Owner, and the tenant, if applicable; stating that the activity meets their approval.

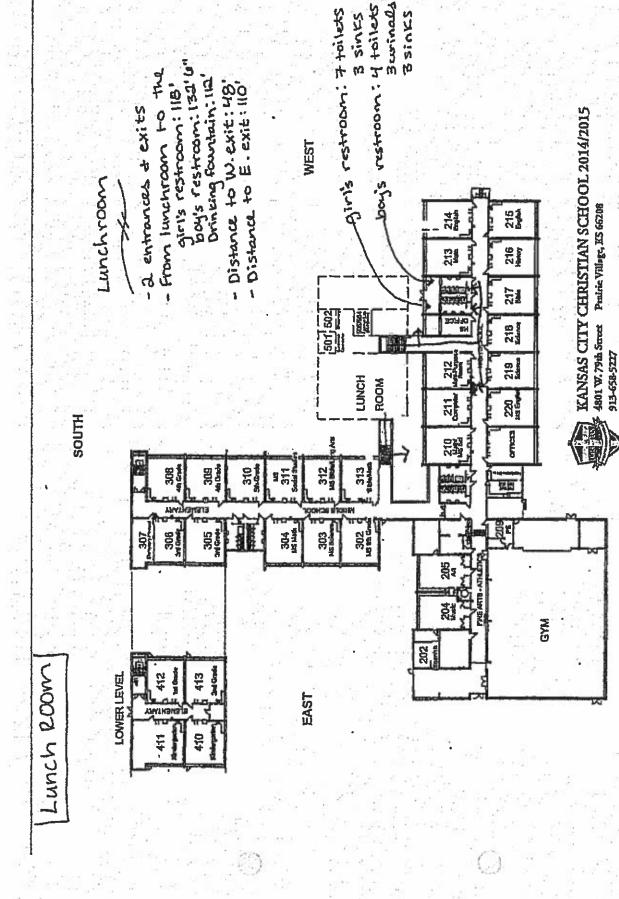
ditions of approval:	
	Planning Commission Chair

Date application approved:





NORTH



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3 SINKS

3 SINKS

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FOR MORE INFORMATION CALL:

CARLA ALLAN, PI

TRISTA PERLA PHO Co-Diloctor

group activities that implement a variety of traditional

CUTPOCHETTS.

fry more information regarding Children's Mercy

CESTO SE

Surviver Treatment Program please visit www.childrensmercy.org/odhdsfp

cury out behavior industrialion programs designed to hear children's problems in a dessirom context. The remainder of anchiday consists of recreational

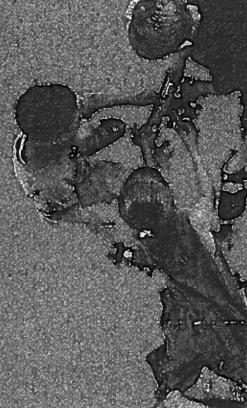
toch gous spands two hours daly in classrooms conducted by special objection. These specialists

A ST COCK

A TYPICAL DAY

WHAT DOES

SUMMER TREATMENT PROGRAM for children with ADHD



紹 Children's Mercy

WHAT IS THE SUMMER TREATMENT PROGRAM ISTURY

For Kids

Something more than medication to help improve an AD-ID child's betavior. Children's Mercy Summer Treatmeni Program (STP) is an eightweek, therapeutic day camp designed for children with Attention Deficit Hyperactivity Disorder and related problems. STP offers on award-winning comprehensive treatment that is tailored to each child's behavioral, emotional and learning difficulties. While the Children's Mercy STP is highly structured and emphasizes treatment, most children enjoy the program tremendously, as they would only summer camp.

For Parents

improve relationships with parents home, reduce noncompliant and disruptive behaviors, Improve provides evening meetings homework task skills, and Children's Mercy STP also unacceptable behavior at with parents to discuss their children to change ADHD freatments and parents work with The sessions help give parents the tools to extend the gains from child's natural environment. STP to the

and siblings.

COLUMN STATES THE SOLUTION OF

STP will help to develop the child's problem-solving and social skills, and help the child gain the social awareness necessary to enable him or her to get along better with other children. The camp will develop the child's abilities to follow through with instructions and complete tasks. STP will also improve the child's learning skills and academic performance as well as the child's self-esteem. STP will help to teach parents how to develop, reinforce, and maintain these positive changes.

Children ages 6-14 are eligible to participate in the program with enrollment limited to those who meet certain criteria. Referrals can be made by school personnal, mental health professionals, physicians or parents.

PROCRAM SIAFF

aspects of the program. In general, there are five staff carefully evaluate treatment effectiveness, both at the program, while developmental pediatricians and/ members for every group of 15 children. If medically evaluate the effectiveness of the child's medication. research. However, our program staff continues to or primary care physicians supervise the medical the SIP uses only treatments that have been wellpsychosocial and behavioral aspects of the Doctoral level psychologists supervise the indicated, the Children's Mercy 5TP staff will also documented and shown to be effective through ndividual level and for the program as a whole. undergraduate paraprofessional therapists, psychology, and educational specialists. students pursuing advanced degrees in the STP is implemented by highly-trained,

TOX DO I SIGN UP

To frillials the application and screening process, inhinested porsits or professionals should coll Children's Mercy at (913) 696-5748.



STAFF MEMO

TO: Planning Commission

FROM: Chris Brewster, AICP, Gould Evans, Planning Consultant

DATE: April 4, 2017, Planning Commission Meeting

Issue: Interpretation – Solar Panels

Staff has received an application for solar panels on a single-family home, which has raised an interpretation issue. This issue has been encountered by staff in other recent applications, and also impacts past applications that pre-date current staff. Staff would like the Planning Commission to consider staff's interpretation to provide direction for future applications.

Current Regulations

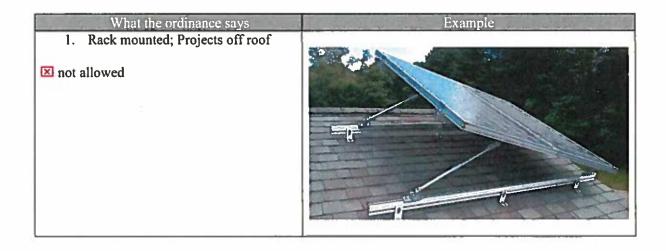
Section 19.50 of the Prairie Village Zoning Ordinance addresses alternative energy systems, and expresses the intent to encourage the use of alternative energy systems and that "the use of alternative energy systems is in the general welfare of its residents." [19.50.005]

This section of the ordinance also establishes compatibility standards to protect neighborhood character, that if met are intended to encourage the appropriate design, location and placement of solar energy systems, and allow administrative permits for all applications that meet the standards. Specifically, the ordinance establishes a preference for the following:

- 1. Panels on sloped roofs should be concealed from view at the street level.
- 2. Panels on sloped roofs should be either directly mounted on the roof or integrated into the roof so they form part of the roof itself.

The elements of directly mounted and integrated are not adequately defined.

General research of typical industry applications reveals the following differing degrees of what this standard could be getting at:



 Roof mounted – Directly on roof but with low-profile, and rack not visible, and does not "project" off roof

Not allowed, OR only PC reviews with site plan, OR allowed as directly mounted with limitations.



3. Roof mounted – directly on roof (fasteners but not on a rack)

☑Permitted



4. Integrated (panels integrated into the roof structure but surface and appearance is different than roof tiles)

☑Permitted



5. Integrated / "stealth" (panels disguised as roof tiles, and/or roof tile is the solar panel)

☑ Permitted



Types 3, 4 and 5 are clearly enabled by the regulations. Type 1 is clearly prohibited. Type 2 is the most common application of solar panels. However one particular section of the standards has competing or conflicting interpretations.

19.50.010 D.. Compatibility

Any solar energy system incorporated into residential facility shall be integrated into the basic form and main structure of the residence. All active systems shall be roof mounted with the collector panels integrated into the roof either directly mounted against the roof or integrated into the roof so that they form pa part of the roof itself. Mounting arrangements, which allow the collectors to project above the roof line, such as "standoff" or "rack" mounting arrangements are not allowed.

The Type 2 installation above appears to be consistent with many aspects of the above – it is "directly mounted" on the roof since it is flush with the roof plane and the mounting mechanism is not visible. However it may also conflict with a literal interpretation since there technically is a "rack" and it does slightly "project above the roof." The difficulty with this literal interpretation is that Types 3 and 4 also share these same attributes, even though they are clearly enabled. Further, using the literal interpretation would seem to negate some of the other compatibility standards that deal with the appearance and screening of mounting mechanisms (i.e. all panels need to be mounted with some type of system). The ordinance assumes this and has performance criteria dealing with the visibility and profile of the mounting mechanism; this would seem to indicate that Type 2 should be permitted. Additionally, staff was made aware of several applications of Type 2 installations that were approved at the staff level over the past several years.

Type 2 installations are also the most common installation, and industry best practices suggest that although these panels could be mounted flush on the roof surface (similar to the Type 3 example), this is not recommended. To function at peak efficiency, these panels need small amounts of ventilation below them and if not the panels become quite hot and can damage surfaces below.

With these considerations, and reading the ordinance as a whole – particularly with the intent of the ordinance, staff suggests that a proper interpretation is that Type 2 installations should be allowed through an administrative permit provided the following are met:

- It is located on a non-street facing roof plane. [This meets the 19.15.010D.2 performance criteria
 of "concealed from view at street level"]
- 2. The mounting brackets either are concealed under the framing or are otherwise colored consistent with the roof structure so as not to be visible from adjacent property. [this reinforces the prohibiting of "standoff or "rack" mounting]
- 3. The panels be mounted along the same plan and parallel with the roof pitch. [this reinforces the prohibiting of "standoff or "rack" mounting]
- 4. The entire system not rise above the roof plane more than 5" [this would be consistent with the profile of other "directly mounted" applications which are allowed, it would allow the best industry practice for efficient performance with some ventilation, and also reinforces the prohibition of "standoff" or "rack" mounting]

Action

If the Planning Commission concurs with this interpretation, no action is necessary other than to give staff direction by consensus vote. Staff believes this is a reasonable interpretation of the current ordinance as written, even though there are some literal interpretations that suggest conflicts. Further, the City is currently embarking on an overall review of the Zoning Ordinance intended to clear up the ordinance and potential interpretation issues such as this. As part of that practice staff can more directly incorporate any amendments or rewording that can best reflect the intent of the ordinance against evolving and current industry "best practices." If the Planning Commission does not agree with this interpretation, the ordinance does provide a path for each specific application to come before the Commission for review and potential approval.