

Agenda

Historic District Commission

City of Kalamazoo



Tuesday, January 20, 2026

5:00 PM

City Commission Chambers at City Hall – 241 West South Street

A. CALL TO ORDER/ROLL CALL

1. 1. Kristi Breisach
2. Katie Boertman
3. James Johnson
4. Dan Kastner - Chair
5. Dana Underwood - Vice-Chair

B. ADOPTION OF FORMAL AGENDA

C. APPROVAL OF MINUTES

1. Approval of the minutes from the Historic District Commission meeting on 16 December 2025

D. PUBLIC COMMENTS

E. APPLICATION REVIEWS

1. 714 Willard - Alteration (Demolition of adjoining garage) PHDC26-001
Year Built: 1895
Style: Queen Anne
Historic District: Stuart
2. 405 Douglas - Alteration (Construction of freestanding deck in rear of property)
PHDC26-002
Year Built: 1895
Style: Queen Anne
Historic District: Stuart

F. COORDINATOR'S REPORT

1. 2026 Meeting Schedule

G. ADJOURNMENT

DISCLAIMER

Chapter 16, Section 22 of the City of Kalamazoo Code of Ordinance states:

Historical preservation is a public purpose. To serve that purpose, the Historic District Commission is hereby charged with the following responsibilities:

- a) The Kalamazoo Historic District Commission is empowered to regulate Work on the exterior of historic resources and non-historic resources in historic districts in the City of Kalamazoo and shall otherwise have all powers invested in Historic District Commissions pursuant to the Local Historic Districts Act, MCLA § 399.201 et seq. 1970 PA 169, as Amended 1992.
- b) To regulate Work on resources which, by City ordinance, are historic or non-historic resources located within local historic districts, including but not limited to the moving of any structure into or out of, or the building of any structure in, an historic district.

The following documents are available in the Community Planning and Economic Development Department located at 245 North Rose Street. These documents will help assist property owners in understanding the responsibilities of owning property in a local historic district: MCLA § 399.201 et seq. 1970 PA 169 as Amended 1992 (Michigan Local Historic District Act); Code of Ordinances City of Kalamazoo, Michigan (Chapter 16 - Historic District); Secretary of the Interiors Standards for Rehabilitation & Guidelines for Rehabilitating Historic Buildings, 1990; Standards and Guidelines for Kalamazoo Historic Districts, and maps of Kalamazoo Local Historic Districts. These documents and maps are also available on the city of Kalamazoo website at www.kalamazoocity.org/historicpreservation.

GUIDELINES FOR PUBLIC PARTICIPATION AT HDC MEETINGS

The Historic District Commission recognizes that citizens who make the effort to attend a Commission meeting often feel passionately about an issue. The following guidelines are not meant to discourage individual expression; rather, they exist to facilitate the orderly conduct of business and to ensure that all citizens who wish to address the Historic District Commission are able to do so in an atmosphere of civility and respect.

- Out of respect for business being conducted during the meeting, turn off all cell phones and pagers prior to the meeting.
- Citizens have opportunities to address the Historic District Commission at the following times during a meeting:
 - Address Non-agenda items at the beginning of the meeting. If you wish to speak about a specific review, please wait until that review comes to the commission.
 - Consideration of Regular Agenda items. Citizens are permitted to speak to the Commission on project reviews after the applicant has made their presentation and prior to the Historic District Commission discussion. The Chair will call for comments from the public.

A Note on Quorum and Historic District Commission Decisions

City of Kalamazoo Code of Ordinance – Chapter 16 – Historic District Commission – section 19 states: “A majority of the members of the Commission shall constitute a quorum. A majority of the appointed members is required to take action on all matters not of an administrative nature, but a majority of a quorum may deal with administrative matters.” All applicants should be aware that the minimum of four of the commissioners must vote for a motion for a decision to be made in all actions. Applicants may choose to postpone their review to the next regularly scheduled meeting of the commission before the commission begins their deliberations if fewer than seven commissioners are present. The postponement form is available from the coordinator and must be filled out and signed before the applicant leaves the meeting.

KALAMAZOO HISTORIC DISTRICT COMMISSION

Agenda – Tuesday, December 16th, 2025

5:00 pm

241 W. South St. Kalamazoo, MI 49007

I. Call to Order: Mr. Kastner called the meeting to order at 5:00 PM

II. Roll Call & Approval of Absences:

Katie Boertman- Present
Dana Underwood – Present
James Johnson-Present
Dan Kastner- Present
Kristi Breisach- Present

Mr. Pena read the disclaimer on record at 5:01 PM.

III. Approval of Agenda:

Motion made to approve agenda by Ms. Underwood with a 2nd by Ms. Breisach All commissioners approve.

IV. Approval of Minutes: October 21st, 2025

Motion made to approve by Ms. Boertman with a 2nd by Mr. Johnson

V. Public Comment on non-agenda items: Mr. Nelson Nave had a public comment regarding the “spaghetti bowl” area of downtown which is the intersection of Stadium Dr. and W. Michigan. Mr. Nave wanted to make the commissioners aware of this project as well as the MLive Article and how this affects multiple historic districts. Many businesses have already either closed or been purchased in this area. Mr. Nave also noted the columns in this area and expressed his concern about these being removed and stated that they could be disassembled and moved to another location.

VI. OLD BUSINESS: None

NEW BUSINESS:

A)	224 E Michigan	5:03 PM	Alteration- Installation of 2 signs
	Year Built: N/A		Style: Commercial
			Historic District: Haymarket

The applicant is replacing the sign at Winston’s building. They are looking at doing more of a classic sign that will be internally lit sign. They will also be adding another sign to the rear of the building for

The Royal Hotel and Apartments. Both signs will be projecting signs and will be mounted in the mortar not the brick with conduit being inside not visible. Mr. Johnson makes a motion to approve a Certificate of Appropriateness for the work as described in the application; the proposed work complies with the Secretary of the Interior standards 9 and 10 with a second from Ms. Underwood. All commissioners approve.

VII. Coordinator’s Report

- 2026 Historic District Commission Meeting Schedule
- IK 2035 Partners Catchup- Luis presented a slideshow

VIII. Adjournment

Ms. Kastner adjourned the meeting at 6:09 PM.

Chairperson

Date

Historic Preservation Coordinator

Date

Recording secretary

Date



Historic District Commission Staff Report

City of Kalamazoo

TO: The Kalamazoo Historic District Commission

FROM: Luis Pena, Historic Preservation Coordinator

DATE: January 20, 2026

SUBJECT: 1. 714 Willard - Alteration (Demolition of adjoining garage) PHDC26-001

PROPOSED WORK:

From the Description of Work Supplied by the Applicant: Removed attached garage from home and seal any gaps left behind after removing 2" x 4" rafters that are connected to home. The garage is not original to home and is currently being cited by the COK code enforcement division. The garage construction is far below minimal code requirements and cannot be saved. Currently, the structure is leaning and there are multiple holes in the roof. The entire foundation has been dug out by ground animals. The homes siding will need minimal repairs after the garage is removed.

EVALUATION:

Project Details

Demolition of garage at the rear of the property. The garage is beginning to fail, and is likely not original to the property.

Applicable Criteria

Secretary of the Interior's Standards for Rehabilitation

2. The historic character of a property shall be retained and preserved. The removal of historic materials or alteration of features and spaces that characterize a property shall be avoided. *The garage in question is not a character defining feature of the Queen Anne style. Additionally, the garage is not likely original to the house. The siding of the garage is different from the main house (the garage is clad in dutch lap siding while the house is clad in clapboard), and the siding on the garage is notched to receive the siding on the house. The garage is not firmly attached to house, and the rear of the house still has siding (indicating that the garage was added after the construction of the house). The demolition of the garage would not constitute the removal of historic materials or alteration of features and spaces that characterize the property.*

6. Deteriorated historic features shall be repaired rather than replaced. Where the severity of

deterioration requires replacement of a distinctive feature, the new feature shall match the old in design, color, texture, and other visual qualities and, where possible, materials. Replacement of missing features shall be substantiated by documentary, physical, or pictorial evidence.

Because the garage is not a historic feature (see above) repair or replacement will not be required under this standard.

9. New additions, exterior alterations, or related new construction shall not destroy historic materials that characterize the property. The new work shall be differentiated from the old and shall be compatible with the massing, size, scale, and architectural features to protect the historic integrity of the property and its environment.

Because the garage is not a historic feature (see above), the demolition of the garage will not destroy historic materials that characterize the property.

Discussion

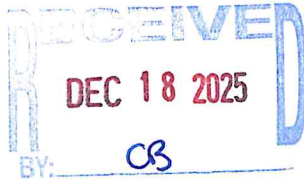
There are not local historic districts that specifically apply to the demolition of adjoining garages, and using the local standards for demolition would not be appropriate in this case (because the criteria for a notice to proceed are not applicable). The garage is not fixed to the main property, and was built after the house was constructed. Additionally, permission for demolition of the garage was given in

POTENTIAL ACTIONS:

1. The proposed work complies with the Secretary of the Interior standards 2, 6 and 9. **Action: Motion to approve a Certificate of Appropriateness for the work as described in the application.**

2. More information is needed. **Action: Motion to postpone until the HDC meeting on 17 February 2026 and direct the applicant to provide the requested materials and information to the Historic Preservation Coordinator by noon on 10 February 2026.**

3. Denial of the application. **Action: Motion to deny the application based on Secretary of the Interior Standards 2, 6 and 9.**



Community Planning and Economic Development
Historic District Commission
245 N. Rose Street
Kalamazoo, MI 49007
Telephone: (269) 337-8804; FAX (269) 337-8513
Penal@kalamazoo-city.org

APPLICATION FOR PROJECT REVIEW – Administrative review

(PLEASE PRINT CLEARLY - See instructions on reverse side)

Property Address: 714 WILLARD

Historic District: ☐ South/Vine ☒ Stuart ☐ West Main Hill ☐ Rose Place ☐ Haymarket

Applicant: COMMUNITY HOMEWORKS

Owner: MARJORIE OLMSTEAD

Mailing Add: 810 BRYANT ST

Mailing Add: 714 WILLARD ST

City State & Zip: KALAMAZOO MI 49007

City, State Zip: KALAMAZOO MI 49007

Phone: 269-998-3275

Phone: 269-216-8895

Email: DDUNCAN @ COMMUNITYHOMEWORKS.ORG

Email: @

Contractor: COMMUNITY HOMEWORKS

☐ Work to be done by owner

☒ Contractors name: COMMUNITY HOMEWORKS

Proposed Work: (Use additional sheets to describe work if necessary)

DEMOLITION OF ATTACHED GARAGE

Application Checklist:

- ☐ Drawings 11x17 or smaller with dimensions
- ☐ Materials list
- ☐ Site plan including north arrow
- ☐ Other

☐ \$35 - HDC review fee – charged with building permit

D.D. This property has at least one working smoke detector for each dwelling unit.
(Owner or applicant's initials, required) * see back

Applicant's Signature: _____

Date: 12-18-2025

Owner's Signature: _____
(if different)

Date: 12/18/25

-For Historic Preservation Coordinator's Use Only-

Case Number PHDC26-001

Date Received 12/18/2025

Zoning RD19 YEAR BUILT 1895

Complete application Yes

Owned since 13/15/2013

Fee Paid \$35

☐ This project will require a building permit with a \$35 administrative review fee.

☐ This project will not require a building permit, there is a \$35 administrative review fee

☒ Referred to the Historic District Commission for review at a monthly hearing - \$85 hearing fee.
Meeting date 01/20/2026

ADMINISTRATIVE

Staff Review Date 01/16/2026

☒ Approve ☐ Site Visit ☐ Approve w/Conditions

COMMENTS

Certificate of Appropriateness Issued _____

Notice to Proceed _____

Referred to Historic District Commission for hearing* _____ \$85
fee Hearing date _____

Historic District Commission - APPLICATION FOR PROJECT REVIEW

Administrative review - *Filling out the application – instructions and tips –*

PLEASE PRINT.

Property address: street address of the property
where the work will be done

Applicant: Owner or the owner's contractor.

Mailing Address: Applicant's address

City, State & Zip:

Phone: Specify home or work

Email

Historic district: Stuart, South Street/Vine Area,
Haymarket, West Main Hill or Rose Place

Owner: Legal owner of property

Mailing Address: Owner's address

City, State & Zip:

Phone: Specify home or work

Email

Contractor – Name of contractor if this project requires a building permit or check ☐ work to be done by owner

Proposed Work: What work do you plan to do? Please be as specific as possible including a complete description of the part of the structure where work will be done.

(Remember: Always apply for and obtain your "Certificate of Appropriateness" BEFORE you purchase materials for your project.)

Example #1: Rather than "Replace window."

Say "Replace lower sash of the left window in the front of the house on the first floor with a wooden sash to match the original." Also state the reason you need to replace rather than repair the sash. ("Sash severely damaged by football.")

Example #2: Instead of "New storm door"

Say "Install new white aluminum storm door on back of house to fit original opening in width and height." And include a drawing or photo of the proposed door – perhaps from a sales flyer or an order sheet. Specify the measurements of the width and height of the original opening.

Example #3: Rather than: "Fence front yard."

Say "Fence front yard with 3' tall Gothic top wooden pickets. Two gates to be installed with the same materials, at the front and north side sidewalks. Fence attached to front house corners."

These are relatively simple examples.

- Measurements are very important and may be part of the drawing
- Drawings should be black or dark blue ink on white paper
- Electronic submissions are encouraged.

A COMPLETE APPLICATION includes:

This application

Drawings as needed

Specifications of materials

Payment of a \$35 administrative review fee in
addition to the building permit fee

Name of the contractor if this project requires a
building permit Or indicate ☐ owner

* ☐ Please initial to verify this property has at least one working smoke detector for each dwelling unit. This is REQUIRED by state law or the application will be considered incomplete.

Emergency repairs: If damage occurs to a structure in a historic district, which requires emergency repairs, steps may be taken to secure the structure without the approval of the commission or the coordinator. Cover damaged windows or holes in a roof with tarps or wood to prevent further damage. Support dangling or loose elements or remove and store them. Notify the Coordinator of the damage to the structure on the first weekday available after the damage occurs and the coordinator will visit the structure as well as arranging a site visit by commission members to approve repairs if necessary. **THIS WILL BE DONE AS QUICKLY AS POSSIBLE IN ORDER TO FACILITATE REPAIRS OF THE STRUCTURE IN A TIMELY MANNER.**

If you have questions about completing this application for project review, please call the Historic Preservation Coordinator at (269) 337-8804 or by email at Penal@kalamazoo-city.org

714 Willard St

Kalamazoo, MI 49007

Historic Stuart Neighborhood

Owner:

Marjorie Olmstead

269-216-8895

Contractor:

Community Homeworks

810 Bryant St

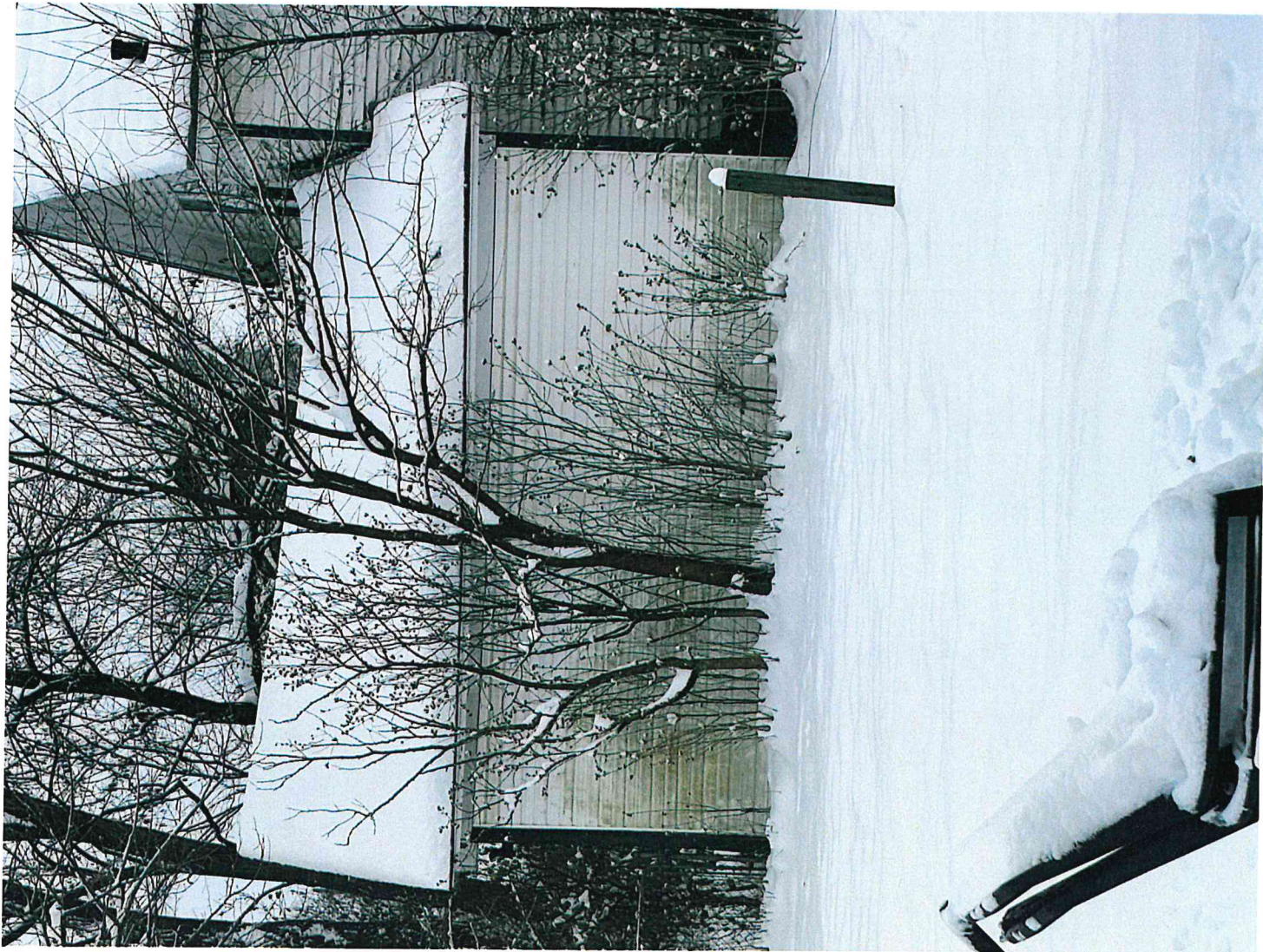
Kalamazoo, MI 49001

269-998-3275

Licensed # 2102198557

Scope:

Removed attached garage from home and seal any gaps left behind after removing 2" x 4" rafters that are connected to home. The garage is not original to home and is currently being cited by the COK code enforcement division. The garage construction is far below minimal code requirements and cannot be saved. Currently, the structure is leaning and there are multiple holes in the roof. The entire foundation has been dug out by ground animals. The homes siding will need minimal repairs after the garage is removed.













Historic District Commission Staff Report

City of Kalamazoo

TO: The Kalamazoo Historic District Commission

FROM: Luis Pena, Historic Preservation Coordinator

DATE: January 20, 2026

SUBJECT: 2. 405 Douglas - Alteration (Construction of freestanding deck in rear of property) PHDC26-001

PROPOSED WORK:

From the Description of Work Supplied by the Applicant: Install 281 sq ft freestanding wood deck. Deck will have 2x6 joists 16" O.C., double 2x6 girders and 4x4 posts. Decking will be 5/4x6 pressure treated deck boards and railing will be 36" tall deckorators aluminum railing.

EVALUATION:

Project Details

Construction of a freestanding deck at the rear of the property.

Applicable Criteria

Secretary of the Interior's Standards for Rehabilitation

9. New additions, exterior alterations, or related new construction shall not destroy historic materials that characterize the property. The new work shall be differentiated from the old and shall be compatible with the massing, size, scale, and architectural features to protect the historic integrity of the property and its environment.

The proposed porch will be freestanding, and will therefore not destroy historic materials that characterize the property. The new work will utilize modern materials (such as treated lumber and the aluminum handrails) to differentiate it from the historic core property. The scale of deck, according to the drawings provided, will not be wider than the property, it will not be highly visible from the street, thus making the proposed deck compatible with the historic integrity of the property and its environment.

10. New additions and adjacent or related new construction shall be undertaken in such a manner that if removed in the future, the essential form and integrity of the historic property and its environment would be unimpaired.

As the proposed deck will be freestanding, it could be removed without impairing the essential form and integrity of the historic property.

Local Historic District Standards and Guidelines

Porches and Decks

Decks are allowed on the rear of a structure and may be constructed of cedar, cypress, redwood or pressure treated lumber.

The proposed deck will be built on the rear of the property of pressure treated lumber.

They should be placed in an unobtrusive location and be minimally visible from the street.

As noted above, the proposed deck will be built at the rear of the property, and will be minimally visible from the street.

Discussion

While the proposed deck will be 280 sq. feet, since the proposed deck is located at the rear of the property, and will not be wider than the historic property, it will be minimally visible from the street. Since the deck is constructed of modern materials (pressure treated lumber, aluminum railings) the proposed deck will be easily differentiated from the historic property. Because the proposed deck will be freestanding, it can be easily removed in the future without impairing the historic integrity of the property.

POTENTIAL ACTIONS:

1. The proposed work complies with the Secretary of the Interior standards 9 and 10. **Action: Motion to approve a Certificate of Appropriateness for the work as described in the application.**
2. More information is needed. **Action: Motion to postpone until the HDC meeting on 17 February 2026 and direct the applicant to provide the requested materials and information to the Historic Preservation Coordinator by noon on 10 February 2026.**
3. Denial of the application. **Action: Motion to deny the application based on Secretary of the Interior Standards 9 and 10.**



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APPLICATION FOR PROJECT REVIEW – Historic District Commission Hearing

COMPLETE Applications for review at the Historic District Commission meeting including payment of the \$85 hearing fee must be received by NOON on the 2nd Tuesday of the month- the meeting is on the 3rd Tuesday of the month.

(PLEASE PRINT CLEARLY - See instructions on reverse side)

Property Address: 405 Douglas Ave. Kalamazoo MI 49007

Historic District: ☐ South/Vine ☒ Stuart ☐ West Main Hill ☐ Rose Place ☐ Haymarket

Applicant: Property Revolution LLC Owner: Florence Denham

Mailing Add: 150 10th St. Mailing Add: 405 Douglas Ave.

City State & Zip: Plainwell MI 49080 City, State Zip: Kalamazoo MI 49007

Phone: 269-256-4338 Phone: 269-344-5897

Email: ashleypropertyrevolution@gmail.com Email: ashleypropertyrevolution@gmail.com

Contractor ashleypropertyrevolution@gmail.com

☐ Work to be done by owner

Proposed Work: Use additional sheets to describe work if necessary

Install 281 sq ft freestanding wood deck. Deck will have 2x6 joists 16" O.C., double 2x6 girders, and 4x4 posts. Decking will be 5/4x6 pressure treated deck boards and railing will be 36" tall Deckorators aluminum railing.

(SD) This property has at least one working smoke detector for each dwelling unit.
(Owner or applicant's initials) (Required) * see back

Applicant's Signature: Ashley Property Revolution Date: 11-20-25

Owner's Signature: Florence Denham Date: 11-19-25
(if different)

APPLICATION CHECKLIST:

Include all these items in your submission. Incomplete applications will be held until the next review hearing.

- ☐ Drawings 11x17 or smaller with dimensions
- ☐ Materials list
- ☐ Site plan including north arrow

- ☐ Other:
- ☐ \$85 for HDC hearing & review fee – must be paid in advance to be placed on agenda – include WITH application – Check payable to: City of Kalamazoo

-For Historic Preservation Coordinator's Use Only-

Case Number: PPZ- PHDC26-002

Date Received*: 1/13/2026

Zoning RD19 Year built 1895

Complete application yes

Owned since 07/21/2008

COMMISSION

Meeting Date 01/20/2026

Hearing fee paid \$85

Check #

COMMENTS

Approve in Concept Date Letter mailed

FINAL ACTION

☐ Approve ☐ Site Visit ☐ Approve w/Conditions ☐ Deny ☐ Postpone ☐ Withdrawn

ACTION DATE

Certificate of Appropriateness Issued

Notice of Denial with appeals information

Notice to Proceed Comments

Revised November 22, 2019

Site Plan
405 Douglas Ave
Kalamazoo MI 49007

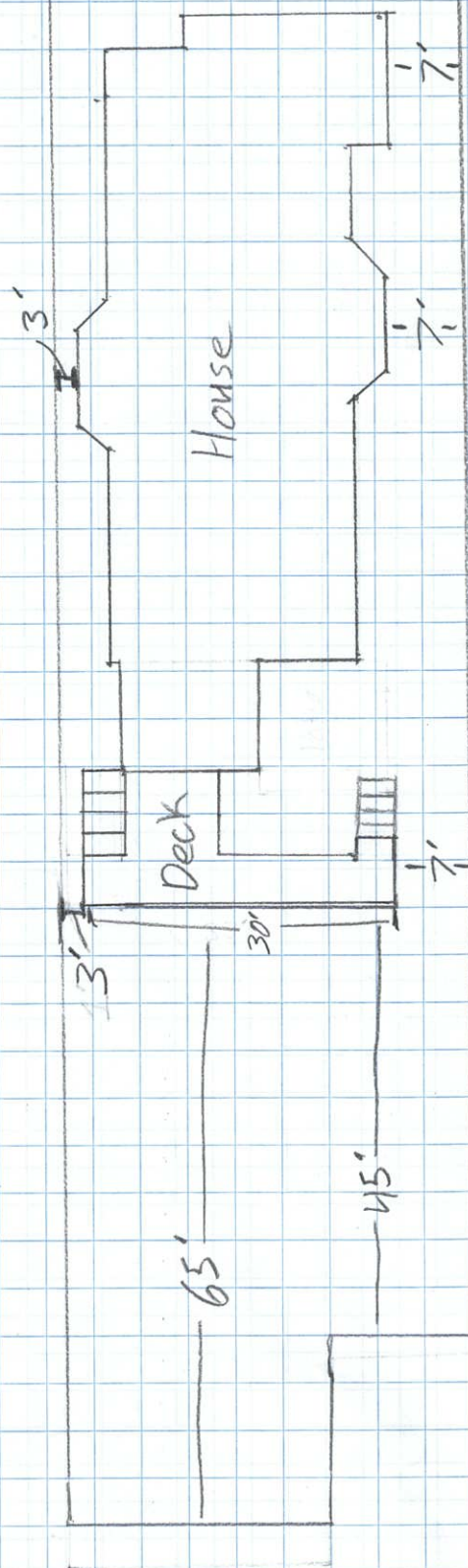
405 Douglas Ave
Kalamazoo MI 49007

Kalamazoo MI 49007



52

Douglas Ave



Deck

59

45:-

 $\frac{4}{5}$

3

3

30'

 $\frac{1}{2}$ $\sim$

7.

Top View
 405 Douglas Ave
 Kalamazoo MI 49007

1" = 1'

Freestanding wood deck

House

Patio

Garden

2'x4' box
 steps with
 4" rise

2'x4' box
 steps with
 4" rise

2x6 joists 16" O.C.
 attached with
 joist hangers

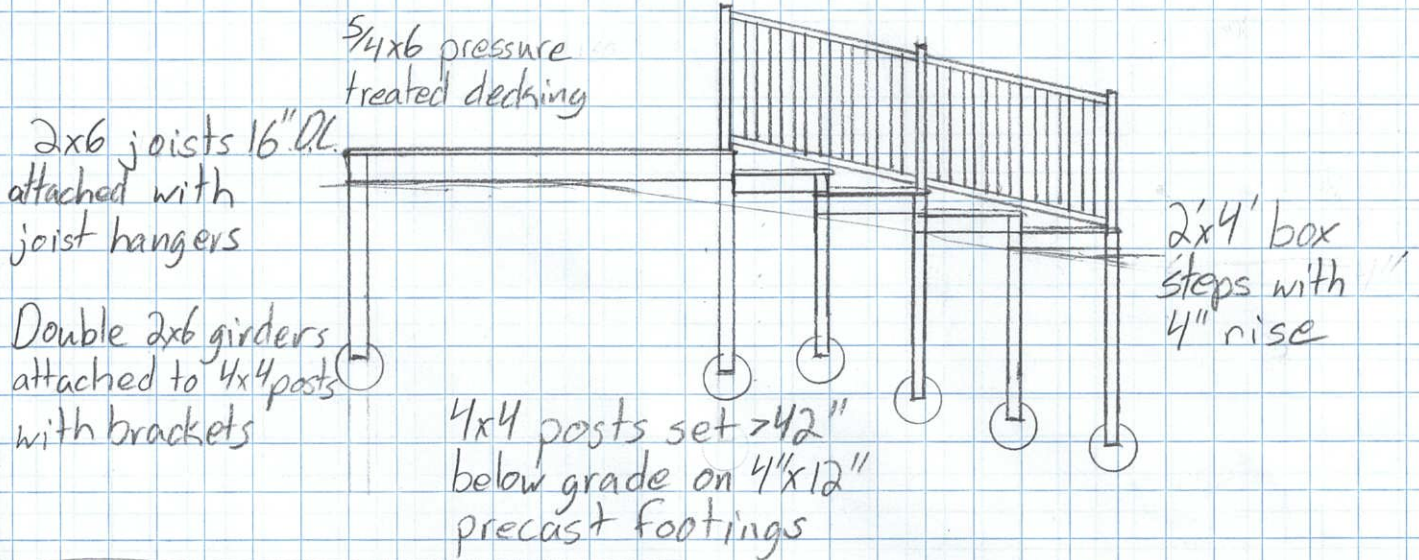
Double 2x6 girders
 attached to 4x4 posts
 with brackets

4x4 posts set > 42"
 below grade on 4x12"
 precast footings

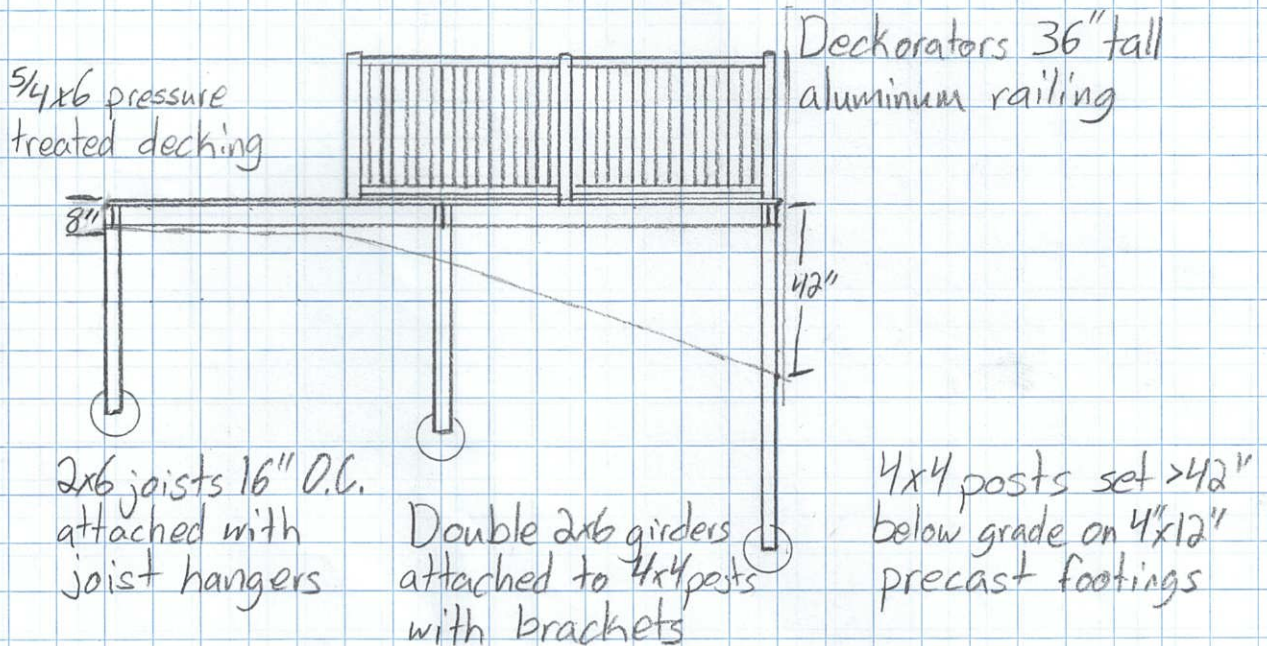
Side View
405 Douglas Ave
Kalamazoo MI 49007

□ = 1

Frestanding wood deck



10'x14' section











Issue Date: 07-24-2018
Revised Date: 03-25-2025
Renewal Date: 07-31-2025

DIVISION: 05 00 00 - METALS
Section: 05 52 00 – Metal Railings

REPORT HOLDER:
Deckorators, Inc.
68956 US Highway 131
White Pigeon, MI 49099
www.deckorators.com

REPORT SUBJECT:
ALX Contemporary Guard Systems

- ALX Contemporary Round Railing
- ALX Contemporary Rectangular Railing
- ALX Contemporary Cable Railing
- Revolution Rod Railing

Rapid Rail Guardrail System

1.0 SCOPE OF EVALUATION

1.1 This Research Report addresses compliance with the following Codes:

- 2024, 2021, 2018 *International Building Code*® (IBC)
- 2024, 2021, 2018 *International Residential Code*® (IRC)

NOTE: This report references the most recent Code editions cited. Section numbers in earlier editions may differ.

1.2 The ALX Contemporary and Rapid Rail Guard Systems have been evaluated for the following properties (see Table 1):

- Structural Performance

1.3 The ALX Contemporary and Rapid Rail Guard Systems have been evaluated for the following uses (see Table 1):

- Guards (aka. guardrails) under the definitions of the referenced codes.
- Guard assemblies are provided as level guards for walking areas such as decks and balconies. Sloped guards are for open sides of stairways.

2.0 STATEMENT OF COMPLIANCE

The ALX Contemporary and Rapid Rail Guard Systems comply with the Codes listed in Section 1.1, for the properties stated in Section 1.2 and uses stated in Section 1.3, when installed as described in this report, including the Conditions of Use stated in Section 6.0.

2.1 2024 IBC and IRC Evaluation Reports: The Intertek CCRR is an *Evaluation Report* for approval of an alternate material, design, or method of construction in accordance with Section 104.2.3.6.1 of the 2024 IBC and Section R104.2.2.6.1 of the 2024 IRC.

3.0 DESCRIPTION

3.1 Level guards are provided with rail lengths up to 96 inches in length and installed heights of 42 inches measured from the top of the upper rail to the walking surface. See Tables 2-6 for lengths and configurations.

3.2 Stair guards are provided with rail lengths up to 97 inches along the sloping length between the inside of supports and an installed height of 42 inches measured vertically from the top of the upper rail to the leading edge of the stair tread or landing.

3.3 The ALX Contemporary and Rapid Rail Guard Systems are an assemblage of extruded aluminum top rails, bottom rails, brackets, balusters, and posts.

3.4 The ALX Contemporary Rectangular, Cable and Revolution Rod Guard top rails are rectangular extruded aluminum profiles. See Figure 2. The ALX Contemporary Round Guard top rail is a round extruded aluminum profile. See Figure 1.

3.5 The ALX Contemporary Rectangular and Round Guard bottom rail is a square extruded aluminum profile. ALX Contemporary Cable and Revolution Rod Guard Systems do not include a bottom rail. See Figure 3.



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intertek.com/building



PCA-101



3.6 The Rapid Rail top and bottom rails are two component rails consisting of a top and base fit together from extruded aluminum profiles. See Figure 9.

3.7 Zinc die-cast collar brackets are used for various configurations. See Figures 4, 10, 12, and 13.

3.8 ALX Guard Systems infill varies by guard system and configuration. See Tables 2, 3, 4 or 5. Available infill described below and shown in Figures 5, 6, and 7.

3.8.1 Classic - aluminum 3/4-inch-diameter round pickets, fit into routing in the top and bottom rails.

3.8.2 Estate - aluminum 3/4-inch square pickets, fit into routing in the top and bottom rails.

3.8.3 Aluminum, 3/4-inch square pickets, factory welded to the top and bottom rails with a 1/8-inch continuous fillet weld.

3.8.4 Stainless steel horizontal cable infill, with intermediate 3/4-inch square pickets. Stair guard systems use two intermediate pickets and level guard systems use one intermediate picket.

3.8.5 A full-length #8-32 stainless steel threaded rod with a 1/4 in. outside diameter stainless steel rod sleeve. An intermediate baluster is required.

3.9 The Rapid Rail Guardrail System uses 5/8-inch square aluminum balusters, fit into routing in the top and bottom rails. See Table 6 and Figure 11.

3.10 Posts consist of square aluminum extrusions welded to an aluminum base plate that is pre-drilled for anchoring to the supporting structure. See Figure 8.

3.10.1 The heavy wall post is a 2-1/2-inch square by 0.15-inch wall aluminum extrusion.

3.10.2 The light wall post is a 2-1/2-inch square by 0.080-inch wall aluminum extrusion.

3.10.3 The 4x4 post is a 4-inch square by 0.125-inch wall aluminum extrusion.

3.10.4 The heavy wall post and light wall post are attached to a 5-inch x 5-inch x 3/8-inch-thick aluminum base plate with a 1/4-inch continuous fillet weld. The base plates have four 3/8-inch-diameter holes for attachment to the deck surface.

3.10.5 The 4x4 post is attached to a 6-1/2-inch x 6-1/2-inch x 1/2-inch-thick aluminum base plate with a 3/16-inch continuous fillet weld. The base plate has four 5/8-inch-diameter holes for attachment to the deck surface.

4.0 PERFORMANCE CHARACTERISTICS

4.1 The guard systems described in this report have demonstrated capacity to resist design loading specified in Chapter 16 of the IBC and Section R301 of the IRC when tested in accordance with ICC-ES AC 273.

5.0 INSTALLATION

5.1 The ALX Contemporary and Rapid Rail Guard Systems must be installed in accordance with the manufacturer's published installation instructions, the applicable Code, and this Research Report. A copy of the manufacturer's instructions must be available on the jobsite during installation.

5.2 Guards may be assembled in various configurations identified in Tables 2-6. Refer to Tables 7-11 for the fastening schedule of all system components.

5.3 Posts are anchored to with (4) minimum 3/8" bolts of the type and size suitable for the construction type and condition of the supporting structure. See Section 6.3 under Conditions of Use for additional requirements.

6.0 CONDITIONS OF USE

6.1 Installation must comply with this Research Report, the manufacturer's published installation instructions, and the applicable Code. In the event of a conflict, this report governs.

6.2 Only those types of fasteners and fastening methods described in this report have been evaluated for the installation of ALX Contemporary and Rapid Rail Guard Systems. Other methods of attachment are outside the scope of this report.





6.3 Anchorage of the structural post is not within the scope of this report and is subject to evaluation and approval by the building official. Anchors must satisfy the design load requirements specified in Chapter 16 of the building code and must meet the following minimum requirements:

6.3.1 A minimum of four anchor bolts must be used and located in the four pre-drilled holes in the structural post base plate.

6.3.2 The anchors must have a minimum nominal diameter of 3/8 inch.

6.3.3 Where required by the building official, engineering calculations and details shall be provided. The calculations verify that the anchorage and supporting structure complies with the building code for the type and condition of the supporting structure.

6.4 The ALX Contemporary and Rapid Rail Guard Systems are manufactured under an approved quality control system with third-party inspections by Intertek.

7.0 SUPPORTING EVIDENCE

7.1 Drawings and installation instructions submitted by the manufacturer.

7.2 Reports of testing and engineering analysis demonstrating compliance with the performance requirements of Acceptance Criteria for Handrails and Guards ICC-ES AC273, revised June 2017.

7.3 Documentation of an Intertek approved quality control system for the manufacturing of products recognized in this report.

7.4 Intertek Listing Reports "[Deckorators, Inc - ALX Contemporary Guardrail Systems](#)" and "[Deckorators, Inc – Rapid Rail Guardrail Systems](#)", on the [Intertek Directory of Building Products](#).

8.0 IDENTIFICATION

The ALX Contemporary and Rapid Rail Guard Systems are identified with the manufacturer's name (Deckorators, Inc.), the product name (ALX Contemporary Guard Systems or Rapid Rail Guardrail Systems), when applicable "For Use in One-and Two-Family Dwellings Only", the Intertek Mark as shown below, the Intertek Control Number, and the Code Compliance Research Report number (CCRR-0280).



9.0 OTHER CODES

This section is not applicable.

10.0 CODE COMPLIANCE RESEARCH REPORT USE

10.1 Approval of building products and/or materials can only be granted by a building official having legal authority in the specific jurisdiction where approval is sought.

10.2 Code Compliance Research Reports shall not be used in any manner that implies an endorsement of the product by Intertek.

10.3 Reference to the <https://bpdirectory.intertek.com> is recommended to ascertain the current version and status of this report.





TABLE 1: PROPERTIES EVALUATED

PROPERTY	2024 IBC SECTION	2024 IRC SECTION
Guard Structural Performance	1607.9.1	Table R301.5

TABLE 2: CODE OCCUPANCY CLASSIFICATION – ALX CONTEMPORARY ROUND RAILING

GUARD TYPE	MAXIMUM DIMENSIONS ⁽¹⁾	INFILL	SUPPORT POST	SUPPORT BLOCK	CODE OCCUPANCY CLASSIFICATION
Level / In-Line Application	97 in. by 42 in.	3/4 in Diameter Round Hollow Aluminum Picket	Heavy Wall 4x4 Post	Two, 3 in. long sections of 3/4 in. dia. round picket	IRC - One- and Two-Family Dwellings
Stair Application	75.5 in. by 42 in.		Heavy Wall Light Wall ⁽²⁾ 4x4 Post		IRC - One- and Two-Family Dwellings IBC – All Use Groups

⁽¹⁾ Guardrails are qualified up to and included the listed maximum guardrail system dimensions for use in the referenced Code Occupancy Classification. Guardrail lengths are actual railings lengths, i.e. clear space between supports for level rails and sloping length of rail between supports for stair rails.

⁽²⁾ Light Wall post is limited to use in IRC One- and Two-family Dwelling applications with a maximum rail height of 36 inches.

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**TABLE 3: CODE OCCUPANCY CLASSIFICATION – ALX CONTEMPORARY RECTANGULAR RAILING**

GUARD TYPE	MAXIMUM DIMENSIONS ⁽¹⁾	INFILL	SUPPORT POST	SUPPORT BLOCK	CODE OCCUPANCY CLASSIFICATION
Level / In-Line Application One-Piece Bracket	73 in. by 36 in. ⁽²⁾	3/4 in Square Hollow Aluminum Picket	Light Wall 4x4 Post	Two, 3 in. long sections of 3/4 in. square picket	IRC - One- and Two-Family Dwellings
	93.5 in. by 42 in. ⁽²⁾		Heavy Wall 4x4 Post		
	93.5 in. by 42 in.	Welded 3/4 in Square Hollow Aluminum Picket	Heavy Wall 4x4 Post	One, 3 in. long section of 3/4 in. square picket	IRC - One- and Two-Family Dwellings
	70.5 in. by 42 in.			None	IBC - All Use Groups
Level / In-Line Application Two-Piece Bracket	69.5 in. by 42 in.	Welded 3/4 in Square Hollow Aluminum Picket	Heavy Wall Light Wall ⁽³⁾ 4x4 Post	None	IRC – One- and Two-Family Dwellings IBC – All Use Groups
	69.5 in. by 42 in.	3/4 in Square Hollow Aluminum Picket Or Welded 3/4 in Square Hollow Aluminum Picket		One, 3 in. long section of 3/4 in. square picket	
	87 in. by 42 in.			Two, 3 in. long sections of 3/4 in. square picket	
	93.5 in. by 42 in.	One, 3 in. long section of 3/4 in. square picket		IRC – One- and Two-Family Dwellings	
Level Over-The-Post Brackets	93 in. by 36 in.	3/4 in Square Hollow Aluminum Picket	Light Wall 4x4 Post	Two, 3 in. long sections of 3/4 in. square picket	IRC - One- and Two-Family Dwellings
Stair Application One-Piece Bracket	97 in. by 42 in.	3/4 in Square Hollow Aluminum Picket	Heavy Wall 4x4 Post	Two, 3 in. long sections of 3/4 in. square picket	IRC - One- and Two-Family Dwellings
		3/4 in Diameter Round Hollow Aluminum Picket	Heavy Wall 4x4 Post	Two, 3 in. long sections of 3/4 in. dia. round picket	
	85.3 in. by 42 in.	3/4 in Square Hollow Aluminum Picket	Heavy Wall 4x4 Post	Two, 3 in. long sections of 3/4 in. square picket	IRC - One- and Two-Family Dwellings
	75.5 in. by 42 in.		Heavy Wall Light Wall ⁽³⁾ 4x4 Post		IBC - All Use Groups
Stair Over-The-Post Brackets	96 in. by 42 in	3/4 in Square Hollow Aluminum Picket	Light Wall 4x4 Post	Two, 3 in. long sections of 3/4 in. square picket	IRC - One- and Two-Family Dwellings

⁽¹⁾ Guardrails are qualified up to and included the listed maximum guardrail system dimensions for use in the referenced Code Occupancy Classification. Guardrail lengths are actual railings lengths, i.e. clear space between supports for level rails and sloping length of rail between supports for stair rails.

⁽²⁾ The usage of the angular brackets for 22° to 45° post to rail installation is limited to these assemblies.

⁽³⁾ Light Wall post is limited to use in IRC One- and Two-family Dwelling applications with a maximum rail height of 36 inches.



TABLE 4: CODE OCCUPANCY CLASSIFICATION – ALX CONTEMPORARY CABLE RAILING

GUARD TYPE	MAXIMUM DIMENSIONS ⁽¹⁾	INFILL	SUPPORT POST	CABLE SPACER SUPPORT BLOCK	CODE OCCUPANCY CLASSIFICATION
Level / In-Line Application One-Piece Bracket	93.5 in. by 42 in.	12 horizontal 1/8 in Diameter 1x19 stainless steel cables equidistant between the top rail and deck surface. One intermediate 3/4 inch square aluminum picket at the midspan is utilized.	Heavy Wall 4x4 Post	One Under Top Rail	IRC - One- and Two-Family Dwellings
	90.5 in. by 42 in.				IRC - One- and Two-Family Dwellings
					IBC – All Use Groups
Level / In-Line Application Two-Piece Bracket	93.5 in. by 42 in.	12 horizontal 1/8 in Diameter 1x19 stainless steel cables equidistant between the top rail and deck surface. Two intermediate 3/4 inch square aluminum picket at the midspan is utilized.	Heavy Wall Light Wall ⁽²⁾ 4x4 Post	One Under Top Rail	IRC – One- and Two-Family Dwellings
	87 in. by 42 in.		Heavy Wall Light Wall ⁽²⁾ 4x4 Post	Two Under Top Rail	IRC – One and Two-Family Dwellings
	69.5 in. by 42 in.			One Under Top Rail	IBC – All Use Groups.
Level Over-The-Post Brackets	91 in. by 42 in.	12 horizontal 1/8 in Diameter 1x19 stainless steel cables equidistant between the top rail and deck surface. Two intermediate 3/4 inch square aluminum picket at the midspan is utilized.	Heavy Wall 4x4 Post	Two Under Top Rail	IRC - One- and Two-Family Dwellings
	88 in. by 42 in.				IRC - One- and Two-Family Dwellings
Stair Application	96 in. by 42 in.		Heavy Wall 4x4 Post	Two Under Top Rail	IBC – All Use Groups
	86.6 in. by 42 in.				IRC - One- and Two-Family Dwellings
Stair Over-The-Post Brackets	89 in. by 42 in.		Heavy Wall 4x4 Post	Two Under Top Rail	IRC - One- and Two-Family Dwellings
	83 in. by 42 in.				IRC - One- and Two-Family Dwellings
					IBC – All Use Groups

⁽¹⁾ Guardrails are qualified up to and included the listed maximum guardrail system dimensions for use in the referenced Code Occupancy Classification. Guardrail lengths are actual railings lengths, i.e. clear space between supports for level rails and sloping length of rail between supports for stair rails.

⁽²⁾ Light Wall post is limited to use in IRC One- and Two-family Dwelling applications with a maximum rail height of 36 inches.



TABLE 5: CODE OCCUPANCY CLASSIFICATION – REVOLUTION ROD RAILING

GUARD TYPE	MAXIMUM DIMENSIONS ⁽¹⁾	INFILL	SUPPORT POST	ROD SPACER SUPPORT BLOCK	CODE OCCUPANCY CLASSIFICATION
Level / In-Line Application	68 in. by 36 in.	Full-length horizontal pickets each of #8-32 stainless steel threaded rod and 1/4" OD hollow stainless steel sleeve.	Light Wall Heavy Wall 4x4 Post	One Under Top Rail	IRC - One- and Two-Family Dwellings
Stair Application					

⁽¹⁾ Guardrails are qualified up to and included the listed maximum guardrail system dimensions for use in the referenced Code Occupancy Classification. Guardrail lengths are actual railings lengths, i.e. clear space between supports for level rails and sloping length of rail between supports for stair rails.

TABLE 6: CODE OCCUPANCY CLASSIFICATION – RAPID RAIL

GUARD TYPE	GUARDRAIL DIMENSIONS ⁽¹⁾	INFILL	SUPPORT POST	SUPPORT BLOCK	CODE OCCUPANCY CLASSIFICATION
Level/In-Line	93.5 in. x 42 in.	5/8-in. Square Hollow Aluminum Baluster	Light Wall ⁽²⁾ Heavy Wall 4x4 Post	Two, 3 in. long sections of ¾ in. square picket	IRC – One- and Two-Family Dwellings
	69.5 in. x 36 in.			One, 3 in. long section of ¾ in. square picket	
Stair	92.5 in. x 42 in.			Two, 3 in. long sections of ¾ in. square picket	
	72 in. x 36 in.			One, 3 in. long section of ¾ in. square picket	
Continuous Stair ⁽³⁾	89.5 in. x 42 in.		Light Wall ⁽²⁾ Heavy Wall	Two, 3 in. long sections of ¾ in. square picket	
Level/In-line	69.5 in. x 42 in.	5/8-in. Square Hollow Aluminum Baluster	Light Wall ⁽²⁾ Heavy Wall 4x4 Post	One, 3 in. long section of ¾ in. square picket	IRC - One- and Two-Family Dwellings IBC – All Use Groups.
Stair	72 in. x 42 in.				
Continuous Stair ⁽³⁾	72 in. x 42 in.		Light Wall ⁽²⁾ Heavy Wall		

⁽¹⁾ Guardrails are qualified up to and included the listed maximum guardrail system dimensions for use in the referenced Code Occupancy Classification. Guardrail lengths are actual railings lengths, i.e. clear space between supports/posts for level rails, sloping length of rail between supports/posts for stair rails, and sloping length of rail between brackets for continuous stair rails.

⁽²⁾ Light Wall post is limited to use in IRC One- and Two-family Dwelling applications with a maximum rail height of 36 inches.

⁽³⁾ Continuous Stair guard is comprised of two or more rail spans with Continuous Stair Brackets (Figure 13) at intermediate posts and standard Rapid Rail Brackets (Figure 10) at end posts.



TABLE 7: FASTENING SCHEDULE – ALX CONTEMPORARY ROUND RAILING

GUARD TYPE	CONNECTION	FASTENER ⁽¹⁾
Level Application	Top Rail Bracket to Post	Two 1/4-14 x 1 in hex-head, self-drilling sheet metal screws
	Top Rail Bracket to Rail	Four #8-18 x 1-1/2 in flat-head, machine screws
	Bottom Rail Bracket to Post	Two 1/4-14 x 1 in hex-head, self-drilling sheet metal screws
	Bottom Rail Bracket to Rail	Two #8-18 x 1-1/2 in flat-head, machine screws
	Support Block / Nylon Connector to Bottom Rail	One #8-14 x 1 in flat head, machine screw
	Angle Bracket to Post	Two #10-16 by 1-inch, self-drilling stainless steel screws
	Angle Bracket to Rail	Two #10-16 by 1-inch, self-drilling stainless steel screws
Stair Application	Top Rail Bracket to Post	Two #10-32 x 1 in flat-head, self-drilling sheet metal screws
	Top Rail Bracket to Rail	Two #10-16 x 1 in pan-head, self-drilling sheet metal screws
	Bottom Rail Bracket to Post	Two #10-32 x 1 in flat-head, self-drilling sheet metal screws
	Bottom Rail Bracket to Rail	Two #10-16 x 1 in pan-head, self-drilling sheet metal screws
	Swivel to Collar	1/4-28 x 1 in button head socket cap screw
	Support Block / Nylon Connector to Bottom Rail	One #8-14 x 1 in flat head, machine screw

⁽¹⁾ All fasteners are 300 series stainless steel.

**TABLE 8: FASTENING SCHEDULE – ALX CONTEMPORARY RECTANGULAR RAILING**

GUARD TYPE	CONNECTION	FASTENER⁽¹⁾
Level Application	Top Rail Bracket to Post	Two 1/4-14 x 1 in hex-head, self-drilling sheet metal screws
	Top Rail Bracket to Rail	Four #8-18 x 1-1/2 in flat-head, machine screws
	Over the Post Bracket to Post	Four 1/4-14 by 1" (0.182 in minor diameter), pan-head, self-drilling, galvanized carbon steel screws (installed in screw chases in post)
	Over the Post Bracket to Rail	Two #8-18 by 3/4" (0.122 in minor diameter), countersunk head, self-drilling, galvanized carbon steel screws
	Bottom Rail Bracket to Post	Two 1/4-14 x 1 in hex-head, self-drilling sheet metal screws
	Bottom Rail Bracket to Rail	Two #8-18 x 1-1/2 in flat-head, machine screws
	Support Block / Nylon Connector to Bottom Rail	One #8-18 x 1 in flat head, machine screw
	Angle Bracket to Post	Two #10-16 by 1-inch, self-drilling stainless steel screws
	Angle Bracket to Rail	Two #10-16 by 1-inch, self-drilling stainless steel screws
Stair Application	Top Rail Bracket to Post	Two #10-16 x 1 in countersunk head, self-drilling, stainless steel screws
	Top Rail Bracket to Rail	Two #10-16 x 1 in pan-head, self-drilling stainless steel screws
	Swivel Over the Post Bracket to Post	Four 1/4-14 by 1" (0.182 in minor diameter), pan-head, self-drilling, galvanized carbon steel screws (installed in screw chases in post)
	Swivel Over the Post Bracket to Rail	Two #8-18 by 3/4" (0.122 in minor diameter), countersunk head, self-drilling, galvanized carbon steel screws
	Bottom Rail Bracket to Post	Two #10-16 x 1 in countersunk head, self-drilling, stainless steel screws
	Bottom Rail Bracket to Rail	Two #10-16 x 1 in pan-head, self-drilling stainless steel screws
	Original Swivel to Collar	1/4-28 x 1 in button head socket cap screw Swivel secured using Barrel Bolt with 1/4-28 x 1 in button head socket cap screw
	Support Block / Nylon Connector to Bottom Rail	One #8-18 x 1 in countersunk head, self-drilling, stainless steel screw

⁽¹⁾ All fasteners are 300 series stainless steel.



TABLE 9: FASTENING SCHEDULE – ALX CONTEMPORARY CABLE RAILING

GUARD TYPE	CONNECTION	FASTENER ⁽¹⁾
Level Application	Top Rail Bracket to Post	Two 1/4-14 x 1 in hex-head, self-drilling sheet metal screws
	Top Rail Bracket to Rail	Four #8-18 x 1-1/2 in flat-head, machine screws
	Over the Post Bracket to Post	Four 1/4-14 by 1" (0.182 in minor diameter), pan-head, self-drilling, galvanized carbon steel screws (installed in screw chases in post)
	Over the Post Bracket to Rail	Two #8-18 by 3/4" (0.122 in minor diameter), countersunk head, self-drilling, galvanized carbon steel screws
	Bottom Rail Bracket to Post	Two 1/4-14 x 1 in hex-head, self-drilling sheet metal screws
	Bottom Rail Bracket to Rail	Two #8-18 x 1-1/2 in flat-head, machine screws
	Cable Infill Intermediate Picket / Nylon Connector to Top Rail and Deck Surface	One #8-18 by 1-inch, countersunk head, self-drilling stainless steel screw
	Cable Infill to Post	Pull-Lock® (Part No. PUL-4-12) fitting pulled through the width of the post to the opposite side, and tightened with brass lock nut and stainless-steel washer on threaded stud
Stair Application	Top Rail Bracket to Post	Two #10-16 x 1 in countersunk head, self-drilling, stainless steel screws
	Top Rail Bracket to Rail	Two #10-16 x 1 in pan-head, self-drilling stainless steel screws
	Swivel Over the Post Bracket to Post	Four 1/4-14 by 1" (0.182 in minor diameter), pan-head, self-drilling, galvanized carbon steel screws (installed in screw chases in post)
	Swivel Over the Post Bracket to Rail	Two #8-18 by 3/4" (0.122 in minor diameter), countersunk head, self-drilling, galvanized carbon steel screws
	Bottom Rail Bracket to Post	Two #10-16 x 1 in countersunk head, self-drilling, stainless steel screws
	Bottom Rail Bracket to Rail	Two #10-16 x 1 in pan-head, self-drilling stainless steel screws
	Original Swivel to Collar	1/4-28 x 1 in button head socket cap screw Swivel secured using Barrel Bolt with 1/4-28 x 1 in button head socket cap screw
	Cable Infill Intermediate Picket / Nylon Connector to Top Rail and Deck Surface	One #8-18 by 1-inch, countersunk head, self-drilling stainless steel screw
	Cable Infill to Post	Pull-Lock® (Part No. PUL-4-12) fitting pulled through the width of the post to the opposite side, and tightened with brass lock nut and stainless-steel beveled washer on threaded stud

⁽¹⁾ All stainless-steel fasteners are 300 series stainless steel.



TABLE 10: FASTENING SCHEDULE – REVOLUTION ROD RAILING

GUARD TYPE	CONNECTION	FASTENER ⁽¹⁾
Level Application	Top Rail Bracket to Post	Two #10-16 x 1 in. Torx-drive, flat-head, self-drilling screws
	Top Rail Bracket to Rail	Two #8-20 x 1/2 in. Torx-drive, flat-head, self-drilling screws
	Horizontal Picket to Side Channel	Slip fit rod rail connector shaft to side channel. Attach rod rail connector shaft to threaded rod of picket, secure with connector wrench.
	Horizontal Picket to Intermediate Baluster	Slip Fit
	Side Channel to Post	Six #10-16 x 1 in. Torx-drive, flat-head, self-drilling screws
	Intermediate Baluster to Top Rail	Nylon baluster plug attached to top rail with one #10-16 x 1 in. Torx-drive, flat-head, self-drilling screw
	Intermediate Baluster to Deck	Nylon baluster plug attached to deck with one #10-16 x 1 in. Torx-drive, flat-head, self-drilling screw
Stair Application	Top Rail Bracket to Post	Two #10-16 x 1 in. Torx drive, flat-head, self-drilling screws
	Top Rail Bracket to Rail	Two #10-16 x 1 in. Torx drive, flat-head, self-drilling screws
	Stair Bracket Socket to Swivel	One 1/4-28 by 1 in. square-drive, pan-head, machine screw
	Stair Bracket Hinged Connector	One 1-1/4 in. long 2-piece connector pin
	Horizontal Picket to Side Channel	Slip fit rod rail connector shaft to side channel. Attach rod rail connector shaft to threaded rod of picket, secure with connector wrench.
	Horizontal Picket to Intermediate Baluster	Slip Fit
	Side Channel to Post	Six #10-16 x 1 in. Torx drive, flat-head, self-drilling screws
	Intermediate Baluster to Top Rail	Nylon baluster plug attached to top rail with one #10-16 x 1 in. Torx-drive, flat-head, self-drilling screw
	Intermediate Baluster to Deck	Nylon baluster plug attached to deck with one #10-16 x 1 in. Torx-drive, flat-head, self-drilling screw

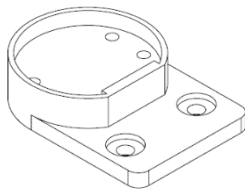
⁽¹⁾ All stainless-steel fasteners are 300 series stainless steel.



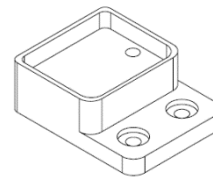
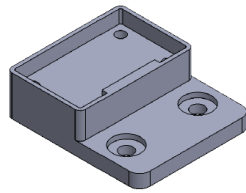
TABLE 11: FASTENING SCHEDULE – RAPID RAIL

GUARD TYPE	CONNECTION	FASTENER ⁽¹⁾
Level Application	Top Rail Bracket to Post	Two #10-16 by 1 in. star drive, countersunk head, self-drilling stainless steel screws
	Top Rail Bracket to Rail	Two #8-18 by ½ in. star drive, countersunk head, self-drilling, stainless steel screws
	Bottom Rail Bracket to Post	Two #10-16 by 1 in. star drive, countersunk head, self-drilling stainless steel screws
	Bottom Rail Bracket to Rail	Two #8-18 by ½ in. star drive, countersunk head, self-drilling, stainless steel screws
	Support Block / Nylon Connector to Bottom Rail	One #8-18 by 1 in. square drive, countersunk head, self-drilling, stainless steel screw
	Support Block / Nylon Connector to Support Block	Slip fit – no mechanical connection
	Baluster to Top/Bottom Rail	Slip fit – no mechanical connection
Stair Application	Top Rail Bracket to Post	Two #10-16 by 1 in. star drive, countersunk head, self-drilling stainless steel screws
	Top Rail Bracket to Rail	Two #8-18 by ½ in. star drive, countersunk head, self-drilling, stainless steel screws
	Bottom Rail Bracket to Post	Two #10-16 by 1 in. star drive, countersunk head, self-drilling stainless steel screws
	Bottom Rail Bracket to Rail	Two #8-18 by ½ in. star drive, countersunk head, self-drilling, stainless steel screws
	Continuous Stair Bracket to Post	Four ¼-20 x ¾ in. star drive, pan-head, thread-forming, stainless steel screws into post screw chases
	Continuous Stair Bracket to Rail	Two #8-18 by ½ in. star drive, countersunk head, self-drilling, stainless steel screws
	Support Block / Nylon Connector to Bottom Rail	One #8-18 by 1 in. square drive, countersunk head, self-drilling, stainless steel screw
	Support Block / Nylon Connector to Support Block	Slip fit – no mechanical connection
	Baluster to Top/Bottom Rail	Slip fit – no mechanical connection
	Top Stair Rail Bracket Base to Bracket Mount	One #10-16 by 1 in. star drive, countersunk head, self-drilling, stainless steel screw
	Bottom Stair Rail Bracket Base to Bracket Mount	One #10-16 by 1 in. star drive, countersunk head, self-drilling, stainless steel screw
	Continuous Stair Bracket Base to Bracket Mount	Two ¼-20 x ½ in. countersunk head stainless steel machine screws

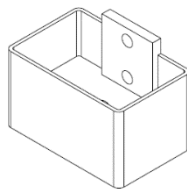
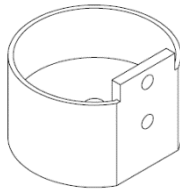
⁽¹⁾ All stainless-steel fasteners are 300 series stainless steel.



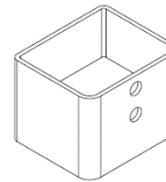
**ALX Level Round and Rectangular
Top Rail Brackets**



**ALX Level Square
Bottom Rail Bracket**



ALX Stair Round and Rectangular Top Rail Brackets



ALX Stair Bottom Rail Bracket

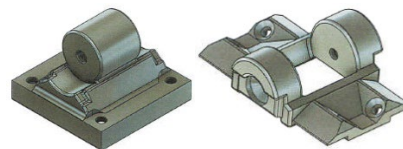


Bracket

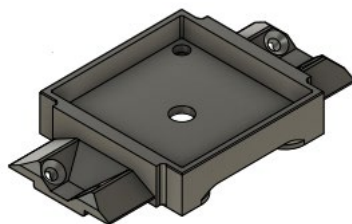


Fasteners

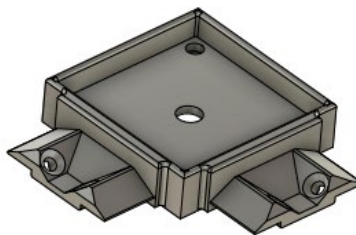
**Original ALX Swivel Bracket for Stair Assembly
and 22.5° To 45° Angle Brackets for Level Assemblies**



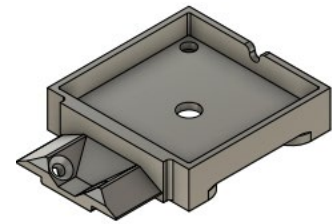
**Over The Top ALX Swivel Bracket
for Stairs Only**



Continuous (Level/In-Line)



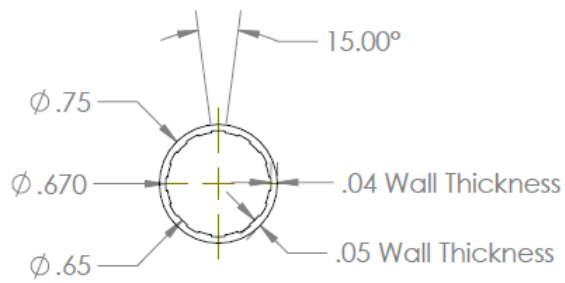
Corner



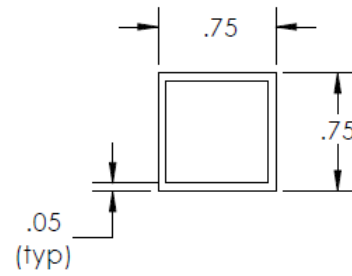
End

Over The Post ALX Rectangular Bracket

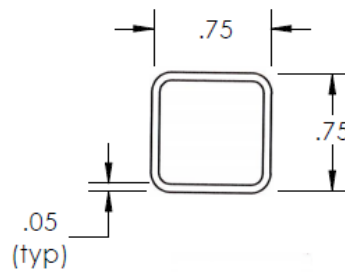
FIGURE 4 – ALX RAIL BRACKETS



Classic 3/4 inch Dia. Picket Profile



Estate 3/4 inch Square Picket Profile



Welded to Rails, 3/4-inch Square Picket Profile

FIGURE 5 – ALX PICKET INFILL

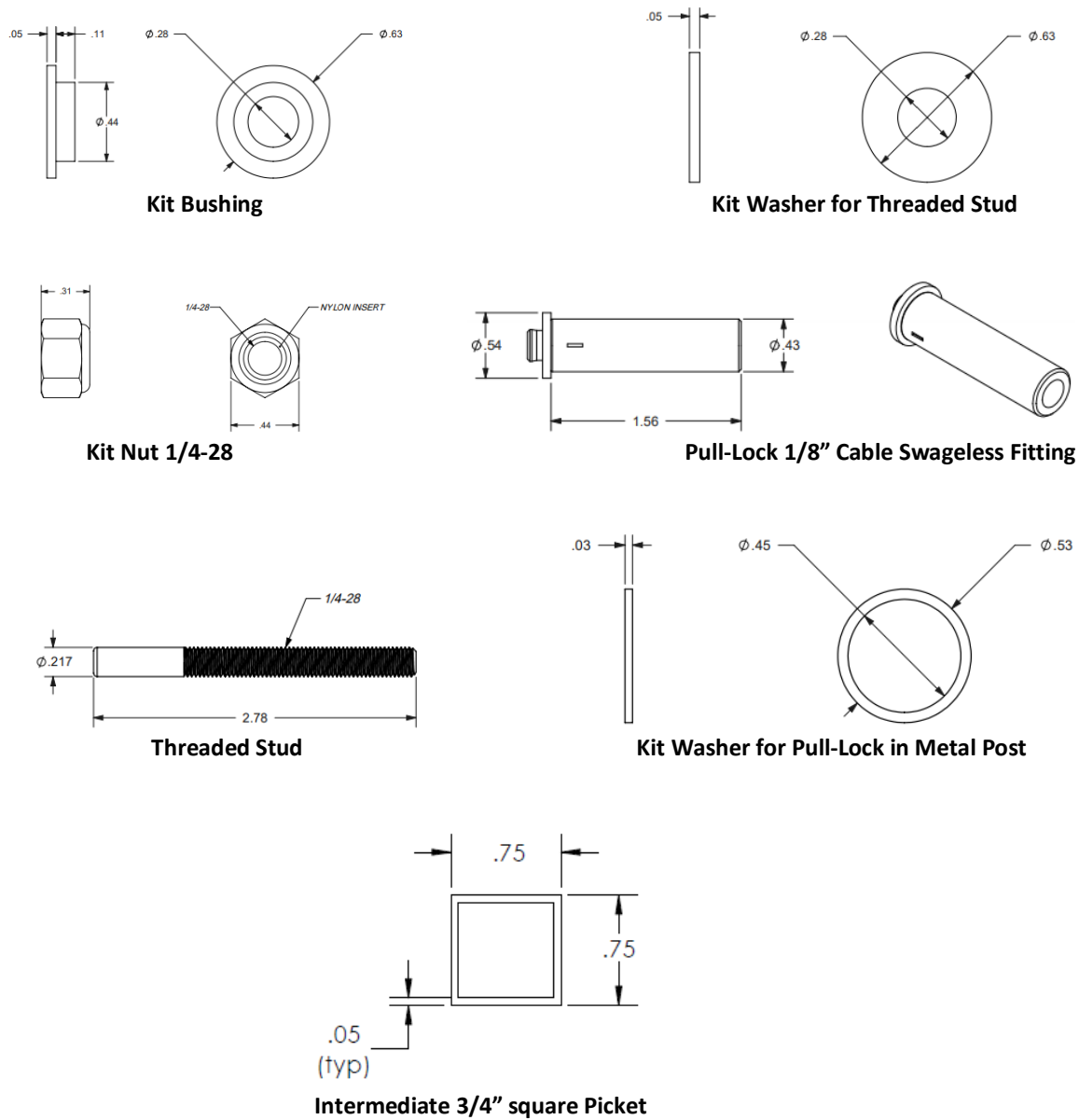


FIGURE 6 – ALX CABLE RAIL INFILL COMPONENTS

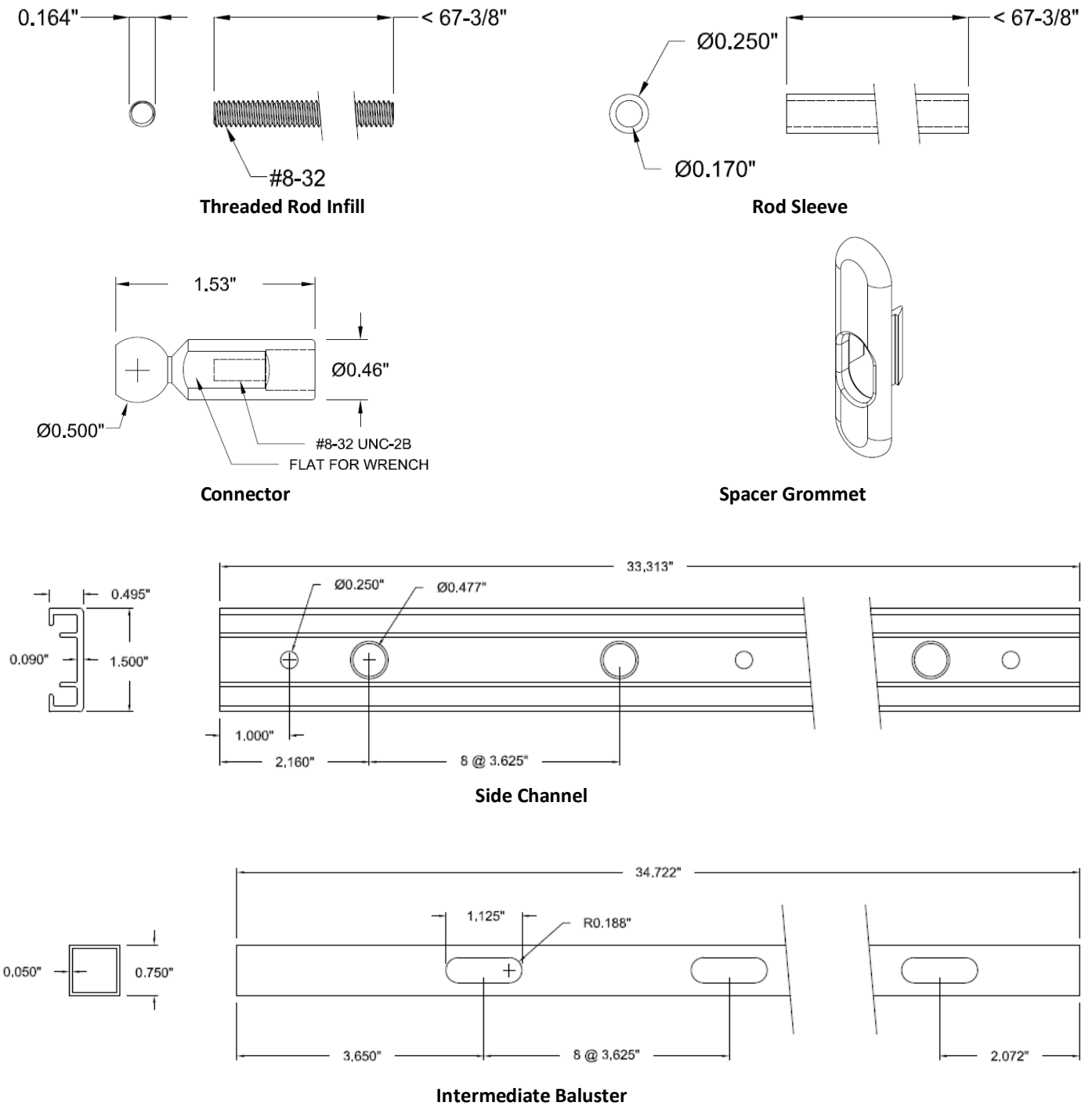
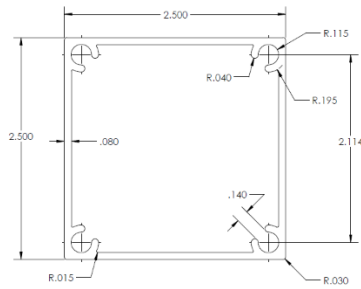
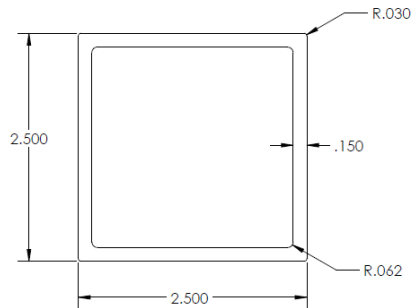


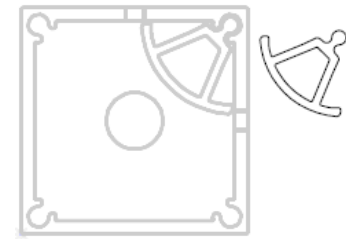
FIGURE 7 – REVOLUTION ROD INFILL COMPONENTS



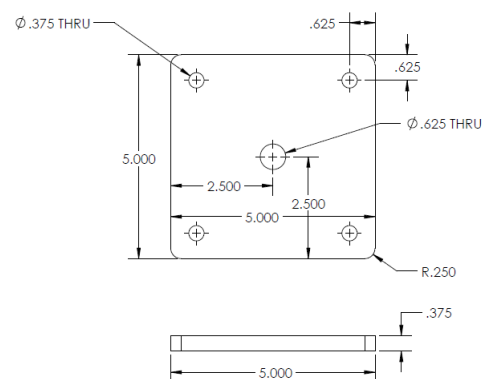
Light Wall Post



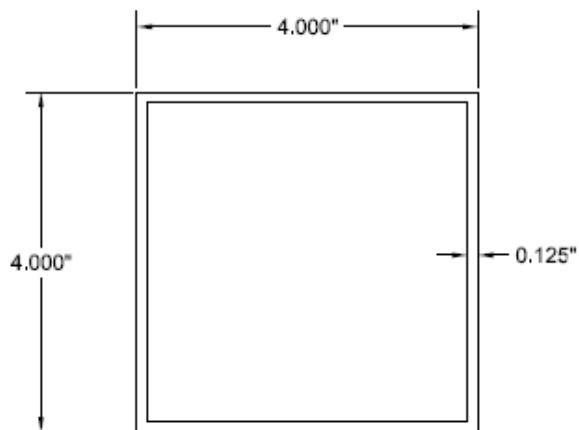
Heavy Wall Post



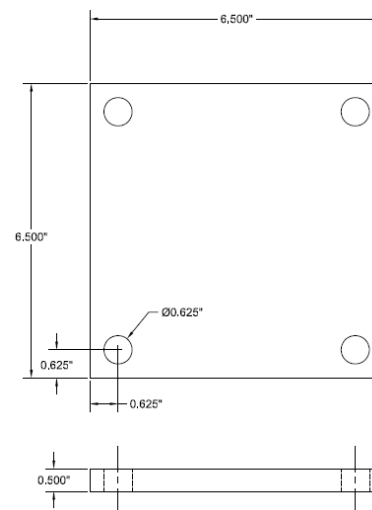
Heavy Wall Post with Cable Corner



Light Wall, Heavy Wall and Heavy Wall with Cable Corner Post Base Plate



4x4 Post



4x4 Post Base Plate

FIGURE 8 – SUPPORT POSTS

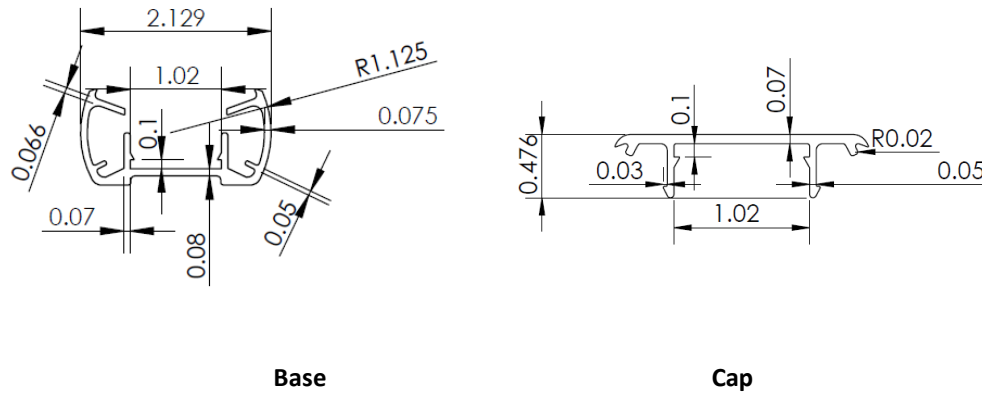
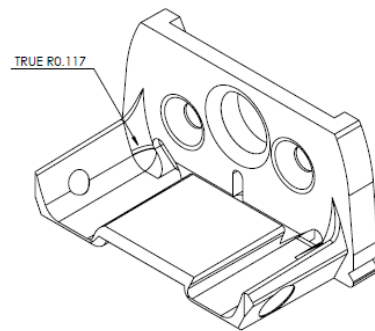
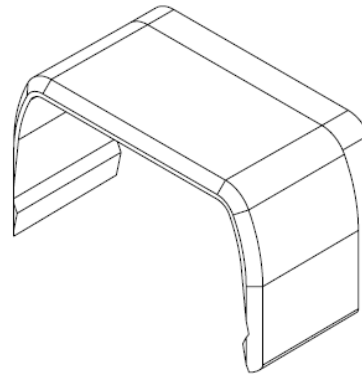


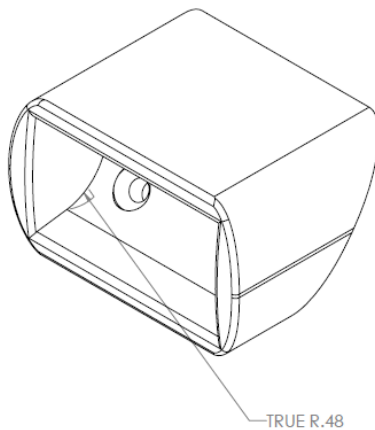
FIGURE 9 – RAPID RAIL TOP AND BOTTOM RAIL



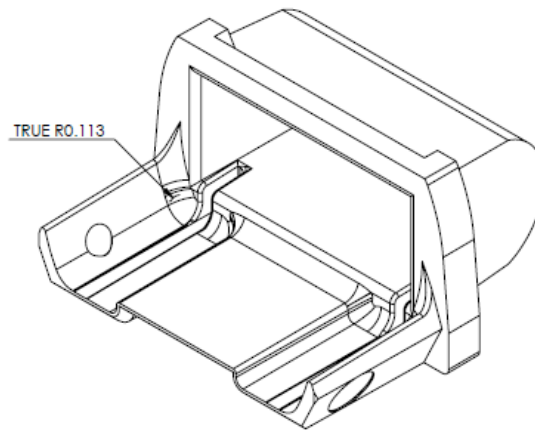
Base Bracket



Bracket Cap



Stair Bracket Mount



Stair Bracket Base

FIGURE 10 – RAPID RAIL BRACKETS

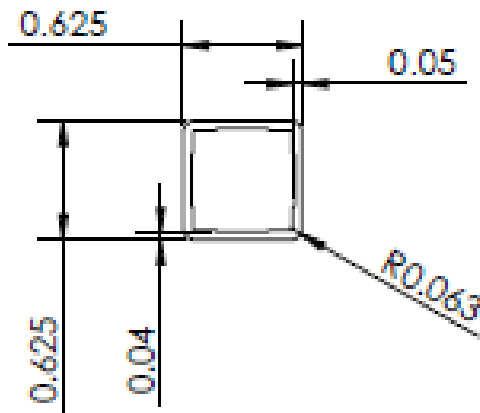


FIGURE 11 – RAPID RAIL 5/8" BALUSTER

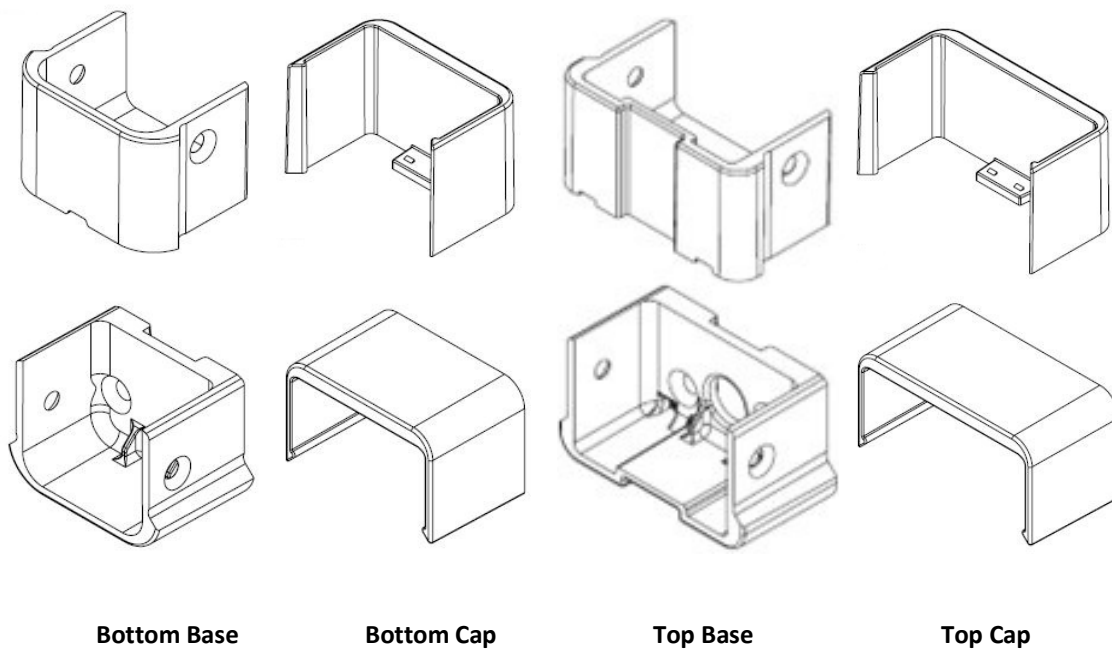


FIGURE 12 – 2-PIECE ALX CONTEMPORARY BRACKET

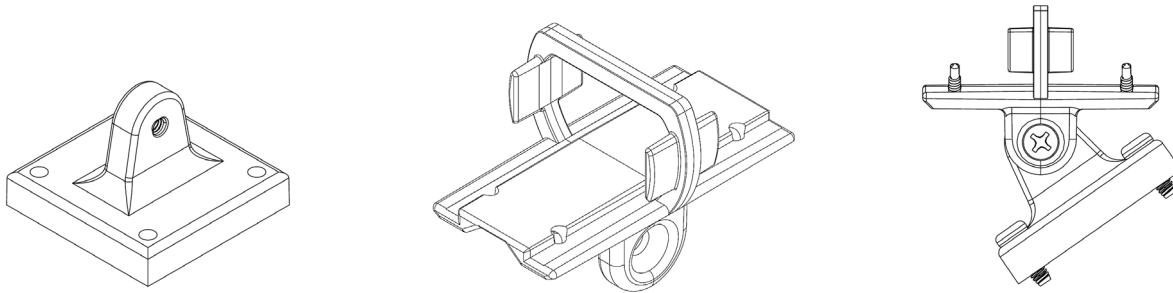


FIGURE 13 – RAPID RAIL CONTINUOUS STAIR BRACKET



COMPOSITE DECKING – TREX ENHANCE® BASIC & NATURALS

Part 1 General

1.1 Section Includes

- A. Composite Decking - Trex Enhance Basics and Naturals

1.2 Related Sections

- A. Section 06-1100 – Wood Framing

1.3 References

- A. ASTM D-7032: Standard Specification for Establishing Performance Ratings for Wood-Plastic Composite Deck Boards and Guardrail Systems (Guards or Handrails), ASTM International.
- B. ASTM D-7031: Standard Guide for Evaluating Mechanical and Physical Properties of Wood-Plastic Composite Products, ASTM International
- C. ASTM E-84: Test Method for Surface Burning Characteristics of Building Materials, ASTM International.
- D. ASTM D 570: Water Absorption of Plastics
- E. ASTM D 1761: Mechanical Fasteners in Wood
- F. ASTM D1413: Test method for Wood Preservatives by Laboratory Soil-block Cultures
- G. ASTM C177: Standard Test Method for Steady-State Heat Flux Measurements and Thermal Transmission Properties by Means of the Guarded-Hot-Plate Apparatus

1.4 Design/Performance Requirements

- A. Structural Performance:
 - a. Deck: Uniform Load – An allowable span of 16 in. on-center and 100 lbf/sq.ft.
 - b. Tread of Stairs: Concentrated Load: An allowable span of 9 in. on-center, and 750 lbf-, and 1/8" max. deflection, with a concentrated load of 300 lbf on area of 4 sq. in.
- B. Fire-Test Response Characteristics per ASTM E-84.
 - a. Flame Spread Index– Class C.

1.5 Submittals

- A. Product Data Indicate sizes, profiles, surface style, and performance characteristics.
- B. Samples: For each product specified, one sample representing actual product color, size, and finish.

1.6 Delivery, Storage, and Handling

- A. Store Trex products on a flat and level surface. Support bundles on supplied dunnage.
- B. Keep material covered using the provided bundle cover until time of installation.
- C. See [www. Trex.com](http://www.Trex.com) for detailed storage recommendations:

[Care and Cleaning Guide for Trex Transcend, Select, and Enhance Decking](#)

1.7 Warranty

- A. Specific terms for warranties can be found at; www.Trex.com

Part 2 Products

2.1 Manufacturers

- A. Contract Documents are based on products supplied by; Trex Company, Inc., 160 Exeter Dr., Winchester, VA 22603.
B. Substitutions: Not permitted under Division 01

2.2 Applications/Scope

A. Wood-Plastic Composite Lumber;

- a. Material Description: Composite Decking consisting of recycled Linear Low Density Polyethylene (LLDPE) and recycled wood. The product is extruded into shapes and sizes as follows:
- i. Trex Enhance Decking Boards; 1 x 5.5”.
 - ii. Lengths – 12, 16, and 20 feet
 - iii. Color – To be specified by owner from Trex’ standard list of colors.
- b. Physical and Mechanical Properties as follows:

Test	Test Method	Value
Flame Spread Index	ASTM E 84	Class C
Thermal Expansion	ASTM D1037	1.9×10^{-5} inch/inch/degreeF
Moisture Absorption	ASTM D1037	< 1%
Screw Head Pull-Through	ASTM D1761	161 lbf per screw**
Fungus Resistance	ASTM D1413	Rating - no decay
Termite Resistance	AWPA E1-72	Rating = 9.6

** Fastener used in testing: #8 x 2.5 in. approved Stainless Steel Screw

2.2 Accessories

A. Fasteners:

- a. Trex Universal Hideaway Hidden Fasteners
b. Other recommended fasteners: [Trex Recommended Fasteners](#).

Part 3 Execution

3.1 Installation

- A. Install according to Trex installation guidelines: [2023 Trex Decking Installation Guide](#).
B. Cut, drill, and rout using carbide tipped blades.
C. Do not use composite wood material for structural applications.

3.2 Cleaning

- A. Following cleaning recommendations as found in Trex installation guide at:
[Care and Cleaning Guide for Trex Transcend, Select, and Enhance Decking](#)

Historic District Commission Meeting Schedule

Third Tuesday of each month, 5pm, City Commission Chambers

- January 20 5pm, City Commission Chambers
- February 17 5pm, City Commission Chambers
- March 17 5pm, City Commission Chambers
- April 21 5pm, City Commission Chambers
- May 19 5pm, City Commission Chambers
- June 16 5pm, City Commission Chambers
- July 21 5pm, City Commission Chambers
- August 18 5pm, City Commission Chambers
- September 15 5pm, City Commission Chambers
- October 20 5pm, City Commission Chambers
- November 17 5pm, City Commission Chambers
- December 15 5pm, City Commission Chambers