

Date: Sept. 13, 2021 Job No.: 7433  
To: Prospective Bidders  
Cc: Town of Plympton  
From: Scott Ridder  
Subject: **Plympton, MA - ADA Building Access Town House - Addendum 3**

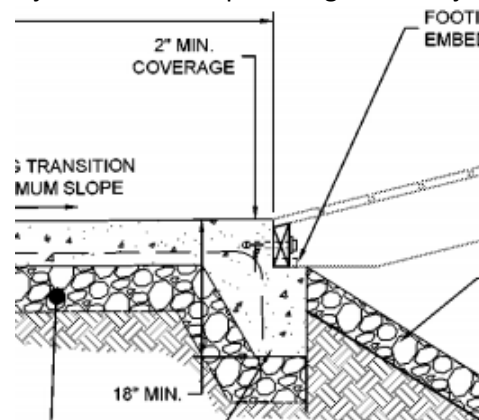
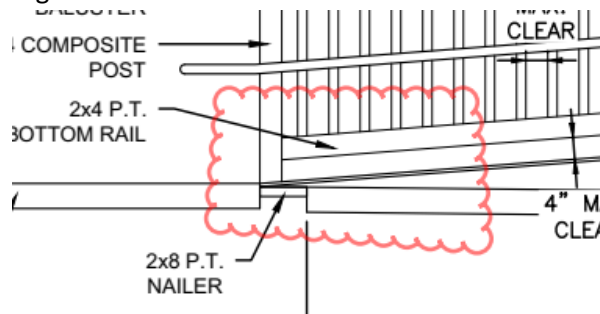
All,

Please find the responses to the questions received for the above referenced bid project. Please note these responses shall become a part of the Contract Documents.

1. Q: There is a note #4 on Drawing #5 to paint the exposed trim. Is this referring to the PT lumber (2x4 bottom rail and stringers)?

**R: Disregard note #4 on Drawing #5. Pressure treated wood shall not be painted.**

2. Q: I foresee an issue at the landing where the 2x PT joists are cut and hitting the concrete. There is nothing to screw the decking to in the last foot without splitting the joists or an ability to anchor the last 4x4 vertical post? In past projects they extend the bottom of the ramp in concrete and provide a plate on a concrete shelf for the joists to rest on providing a thicker joist depth to attach the deck to. Even if you provide a preservative to the cut it will not last as long as the original PT treatment.



**R: This would be a reasonable alternative to be worked out in the field.**

3. Q: Handrail to be primed and painted or just galvanized?

**R: All handrails shall be primed with zinc rich primer and painted (Black)**

4. Q: Although you specify three manufactures of composite decking and rails there are many degrees of quality. i.e. Trex comes in five choices. Transcend tropicals, Transcend Earth Tones, Select Earth Tones, Enhance Naturals, and Enhance Basics. Different profiles, colors and pricing.

- **R: Composite decking shall meet the requirements for the most current edition of the IBC and ASTM D5456, Color shall be White (posts and balustrades) with Gray (decking and railing caps).**

**The Product shall provide a 10 Year Commercial Warranty. Product shall meet the physical and mechanical properties outlined below as needed for the application.**

Test	Test Method	Value	
Flame spread	ASTM E 84	60(Transcend) /	
Thermal Expansion	ASTM D 1037	1.9 x 10-5 inch/inch/degreeF	
Moisture Absorption	ASTM D 1037	< 1%	
Screw Withdrawal	ASTM D1761	558 lbs/in	
Fungus Resistance	ASTM D1413	Rating - no decay	
Termite Resistance	AWPAE1-72	Rating = 9.6	
		<b>Ultimate (Typical)Values *</b>	<b>Design Values</b>
Compression Parallel	ASTM D198	1588 psi	540 psi
Compression Perpendicular	ASTM D143	1437 psi	540 psi
Bending Strength	ASTM D198	3280 psi	500 psi
Shear Strength	ASTM D143	1761 psi	360 psi
Modulus of Elasticity	ASTM D4761	412,000psi	200,000 psi
Modulus of Rupture	ASTM D4761	3280 psi	500 psi

5. You indicate an overhang of the decking. Composite decking comes in 12' and 16' stock. If as I read it the ramp is 4' wide with 1" overhang on both sides you will be throwing away an ~3'-11" piece on every 12' or 16' decking pieces. Based upon past projects they have shown 36" clear from face of railing to face of railing and 1.5" clear from face of railing the post surface. That would equate to less than 48" in ramp width.

**The deck width shall be widened to allow for a 4' clear width from railing to railing.**

6. Q: A 2x4 cap in Trex is only 3.4" wide and will not provide an overhang over a 4x4PT post.

**R: Railing details have been revised.**

7. Q: We have been asked by several General Contractors to submit A Quote on the Miscellaneous Iron Portion of this Project. Upon Reviewing the Plans and Specifications sent to my office from several General Contractors, we cannot what type of finish that is required on the post mounted pipe rails

**R: All handrails shall be primed with zinc rich primer and painted (Black)**

You will find adjustments to the plans outlined below and further defined in the corresponding revised documents and decking installation guides. This addendum #3 is for review and incorporation into the contract documents.

- **As Revised include list.**



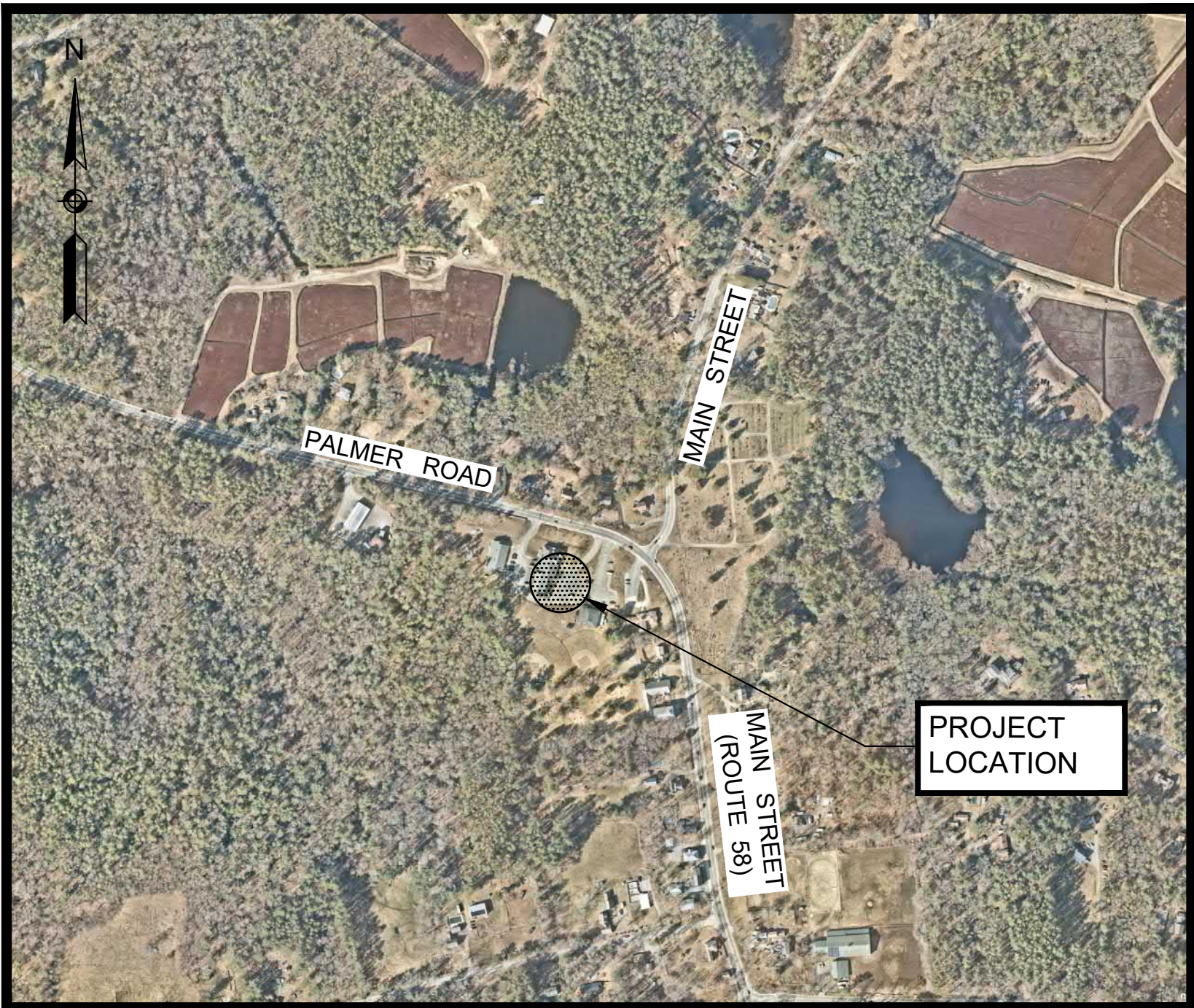


# TOWN OF PLYMPTON, MASSACHUSETTS

## ADA BUILDING ACCESS TOWN HOUSE 5 PALMER ROAD, PLYMPTON, MA AUGUST 2021

### TOWN PROPERTIES COMMITTEE

Jon Wilhelmsen - Chairman  
Colleen Thompson  
John A. Traynor, Jr.  
Nancy Butler  
Ross MacPherson



 PROJECT LOCATION

### LOCATION MAP

1"=500'

### PLAN INDEX

<u>SHEET NO.</u>	<u>DESCRIPTION</u>
1	COVER SHEET
2	EXISTING CONDITIONS & SITE PREPARATION PLAN BASE BID
3	SITE PLAN BASE BID
4	DECK, RAMP & STAIR DETAILS BASE BID
5	DECK, RAMP & STAIR DETAILS BASE BID
6	SITE PLAN & DETAILS ALTERNATE 1

ADDENDUM #3

PREPARED BY:



Scott T. Ridder, LA

8-30-2021

REGISTERED PROFESSIONAL

DATE







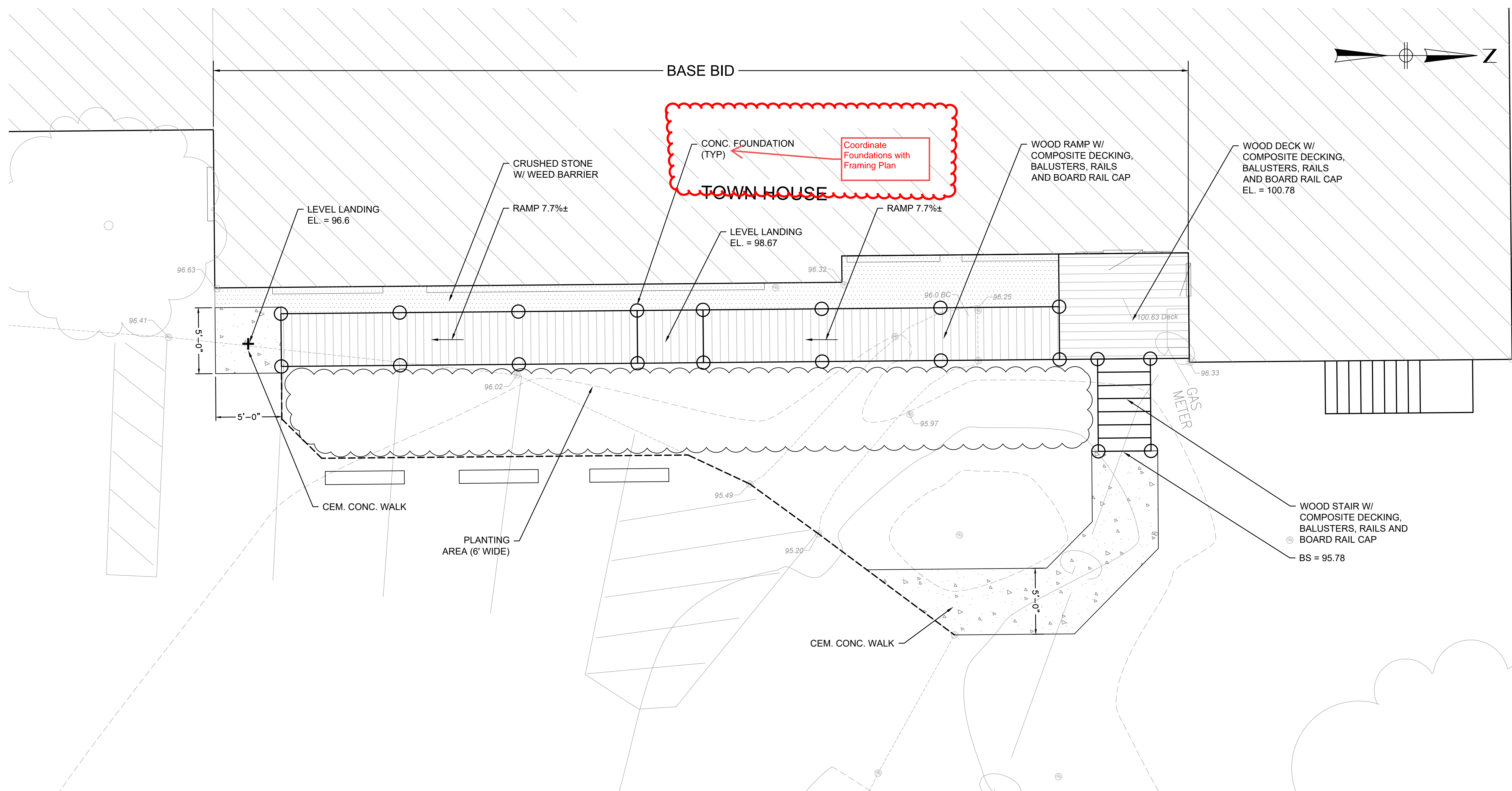
[illegible]

NO.	REVISIONS	DATE
-----	-----------	------

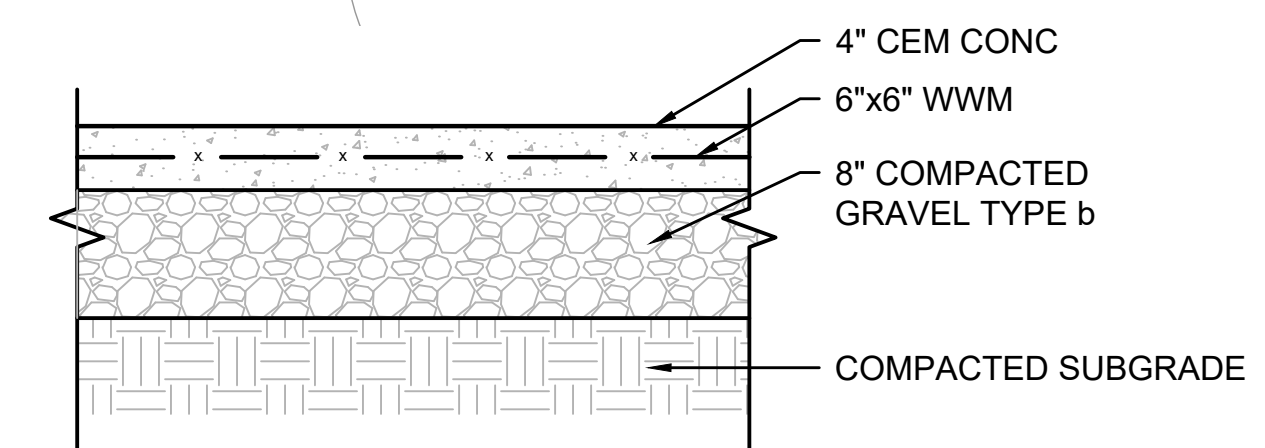
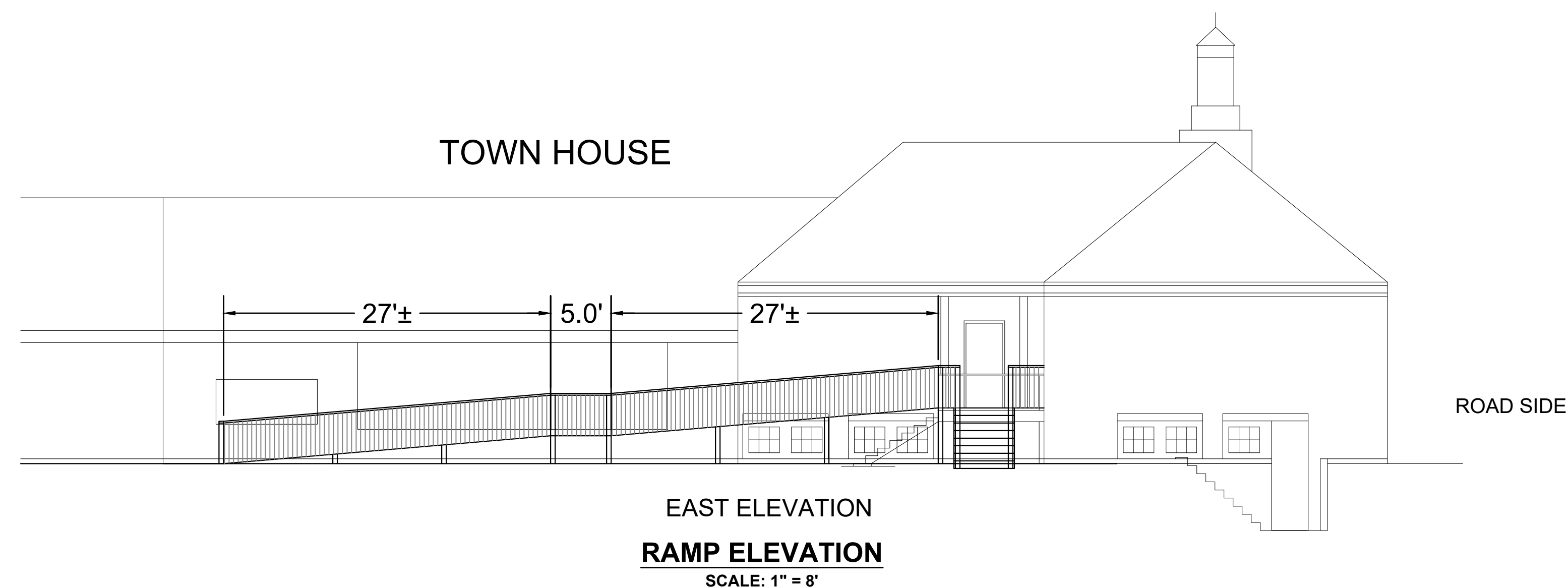
DRAWN BY:	CC/SR
DESIGNED BY:	SR
CHECKED BY:	BM
ISSUE DATE:	AUGUST 2021
BETA JOB NO.:	7433

SCALE IN FEET: 1"=4'

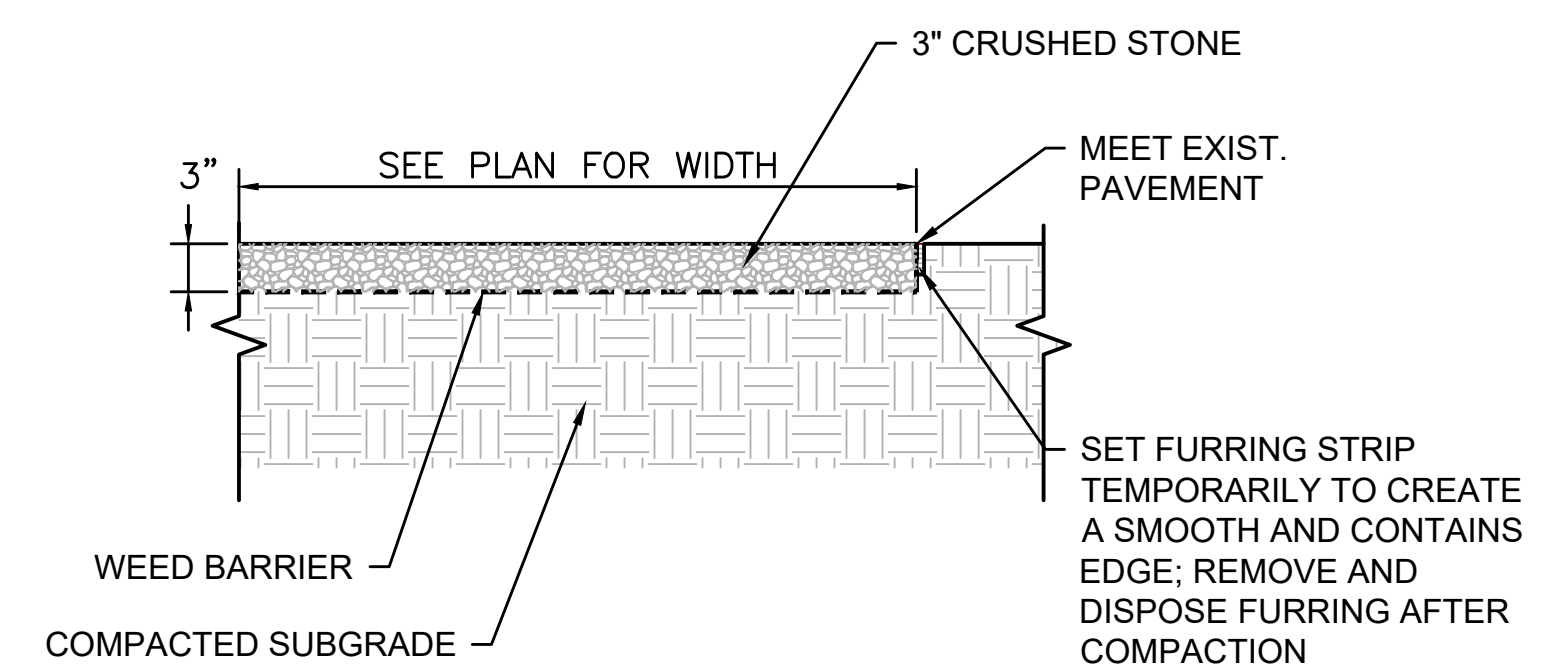
SHEET NO. .



**SITE PLAN**  
**SCALE: 1" = 4'**

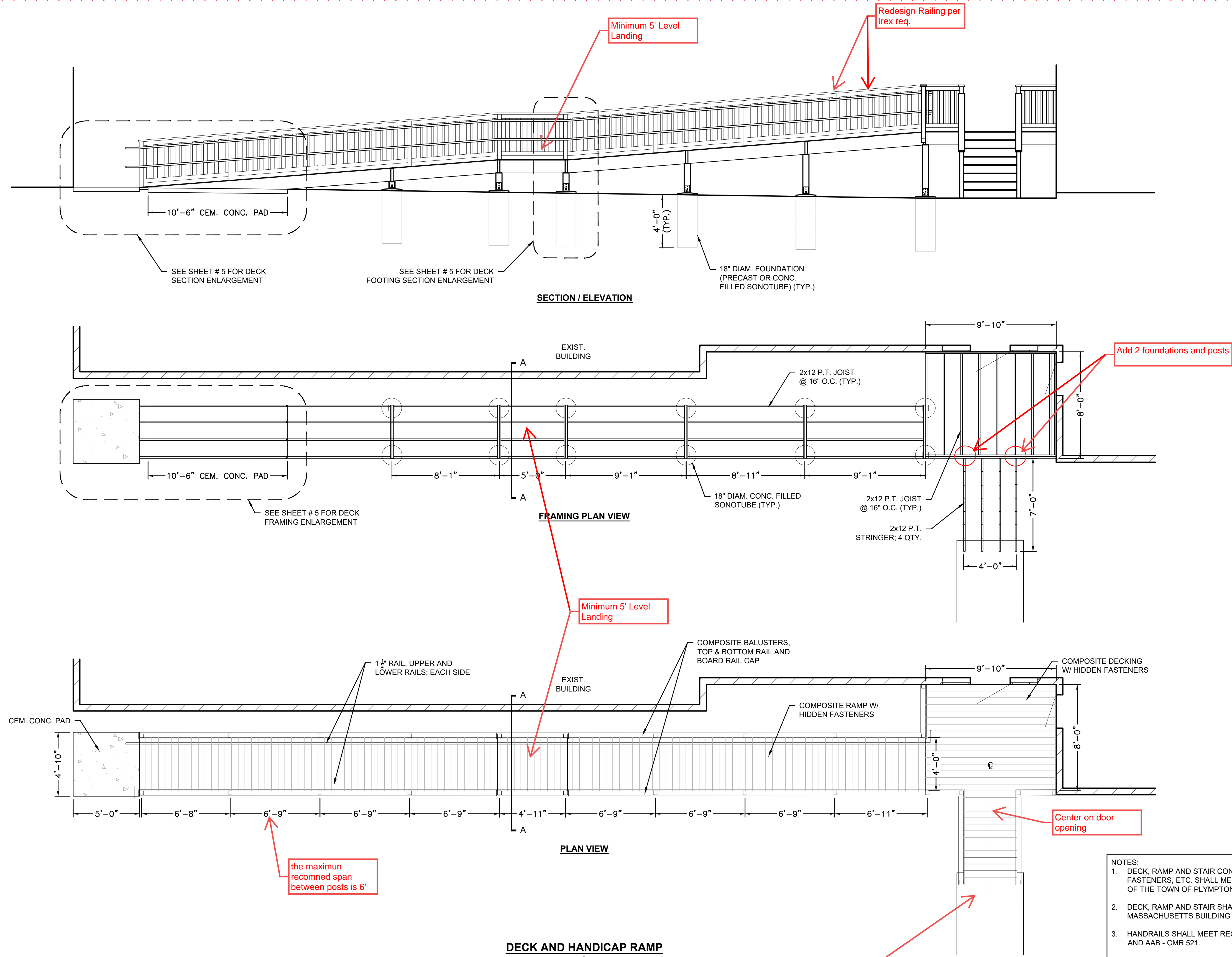


**CEMENT CONCRETE WALK**  
SCALE: 1"=1'



**CRUSHED STONE WITH WEED BARRIER**  
SCALE: 1"=1'

8/12/2021 9:11 AM O:\7405\7433 - PLYMPTON - TOWN HOUSE\DRAWING FILES\PLANS\7433 DECK DETAILS.DWG (BETA STB BW STB)



**DECK AND HANDICAP RAMP**

SCALE:  $\frac{1}{4}$ "=1'-0"

**1011.2 Width and capacity.**

The required capacity of stairways shall be determined as specified in Section 1005.1, but the minimum width shall be not less than 44 inches (1118 mm). See Section 1009.3 for accessible means of egress stairways.

Confirm clear width after revising railings - Ref IBC 2015

**NOTES:**

1. DECK, RAMP AND STAIR CONSTRUCTION, FASTENERS, ETC. SHALL MEET THE REQUIREMENTS OF THE TOWN OF PLYMPTON BUILDING INSPECTOR.
2. DECK, RAMP AND STAIR SHALL MEET MASSACHUSETTS BUILDING CODES FOR LOADING.
3. HANDRAILS SHALL MEET REQUIREMENTS FOR ADA AND AAB - CMR 521.
4. ALL WOOD SHALL BE PRESSURE TREATED. EXPOSED WOOD TRIM SHALL BE PRIMED AND PAINTED. CONTRACTOR TO PROVIDE FINAL PAINT COLOR SAMPLES TO TOWN. FINAL PAINT COLOR TO BE SELECTED BY THE TOWN.
5. ALL DECKING, TOP AND BOTTOM RAILINGS, BALUSTERS, BOARD RAIL CAP, ETC. SHALL BE COMPOSITE. COMPOSITE COMPONENTS SHALL BE COMMERCIAL GRADE FOR QUALITY, DIMENSION AND COLOR. GRADE OF MATERIALS AND COLORS FOR ALL COMPOSITE COMPONENTS SHALL BE SELECTED FROM MANUFACTURER'S SAMPLES AS SUPPLIED TO THE TOWN BY THE CONTRACTOR.
6. COMPOSITE COMPONENTS SHALL BE MANUFACTURED BY TREX, TIMBERTECH, DURA-LIFE OR APPROVED EQUAL.

PREPARED BY



REGISTERED PROFESSIONAL

SUBCONSULTANT

PROJECT

**ADA BUILDING  
ACCESS  
TOWN HOUSE**

Plympton, Massachusetts

TITLE

**DECK, RAMP &  
STAIR DETAILS  
BASE BID**

NO.	REVISIONS	DATE
-----	-----------	------

DRAWN BY:	CC/SR
-----------	-------

DESIGNED BY:	SR
--------------	----

CHECKED BY:	BM
-------------	----

ISSUE DATE:	AUGUST 2021
-------------	-------------

BETA JOB NO.:	7433
---------------	------

SCALE



UNLESS OTHERWISE NOTED OR CHANGED BY REPRODUCTION

SHEET NO.

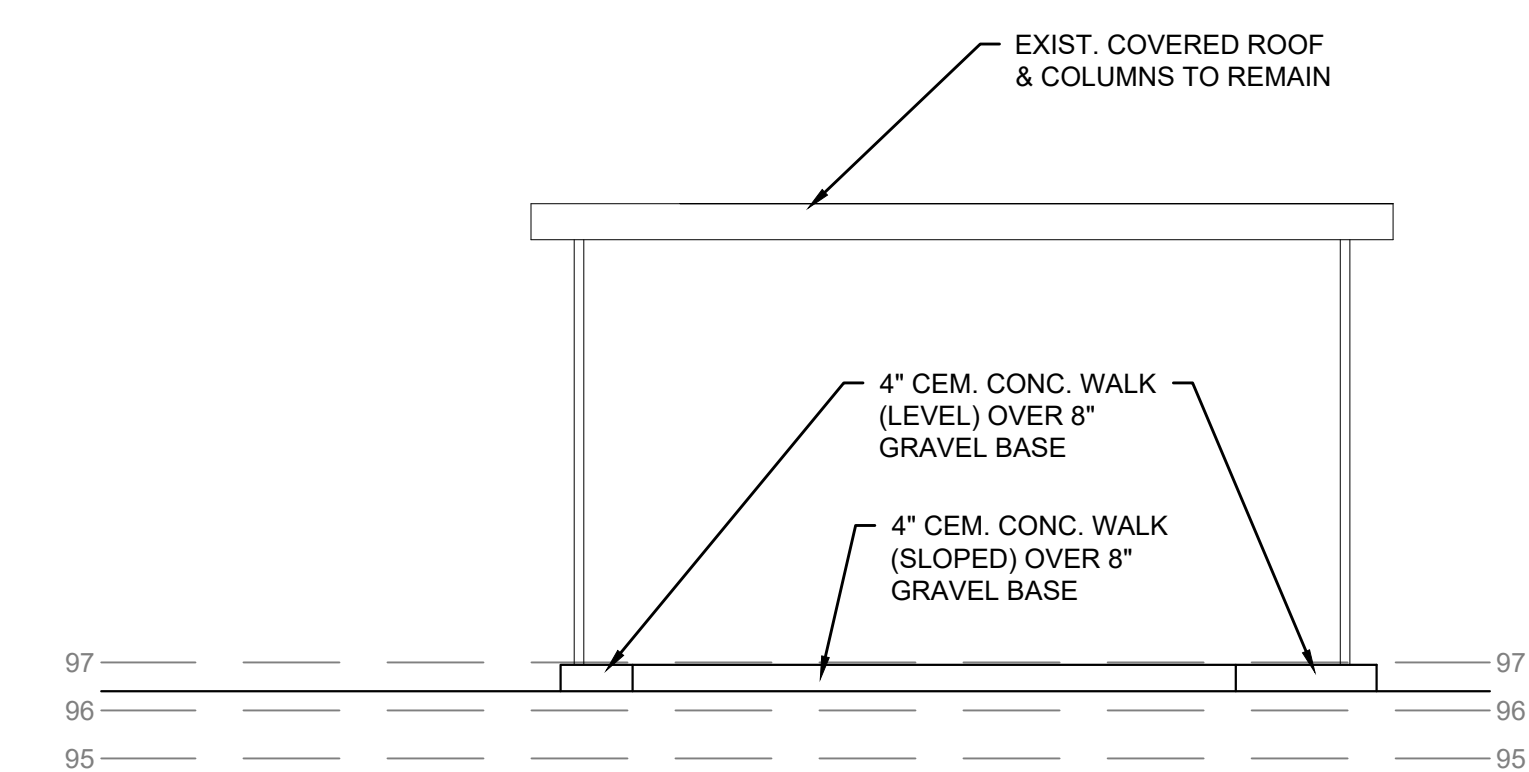
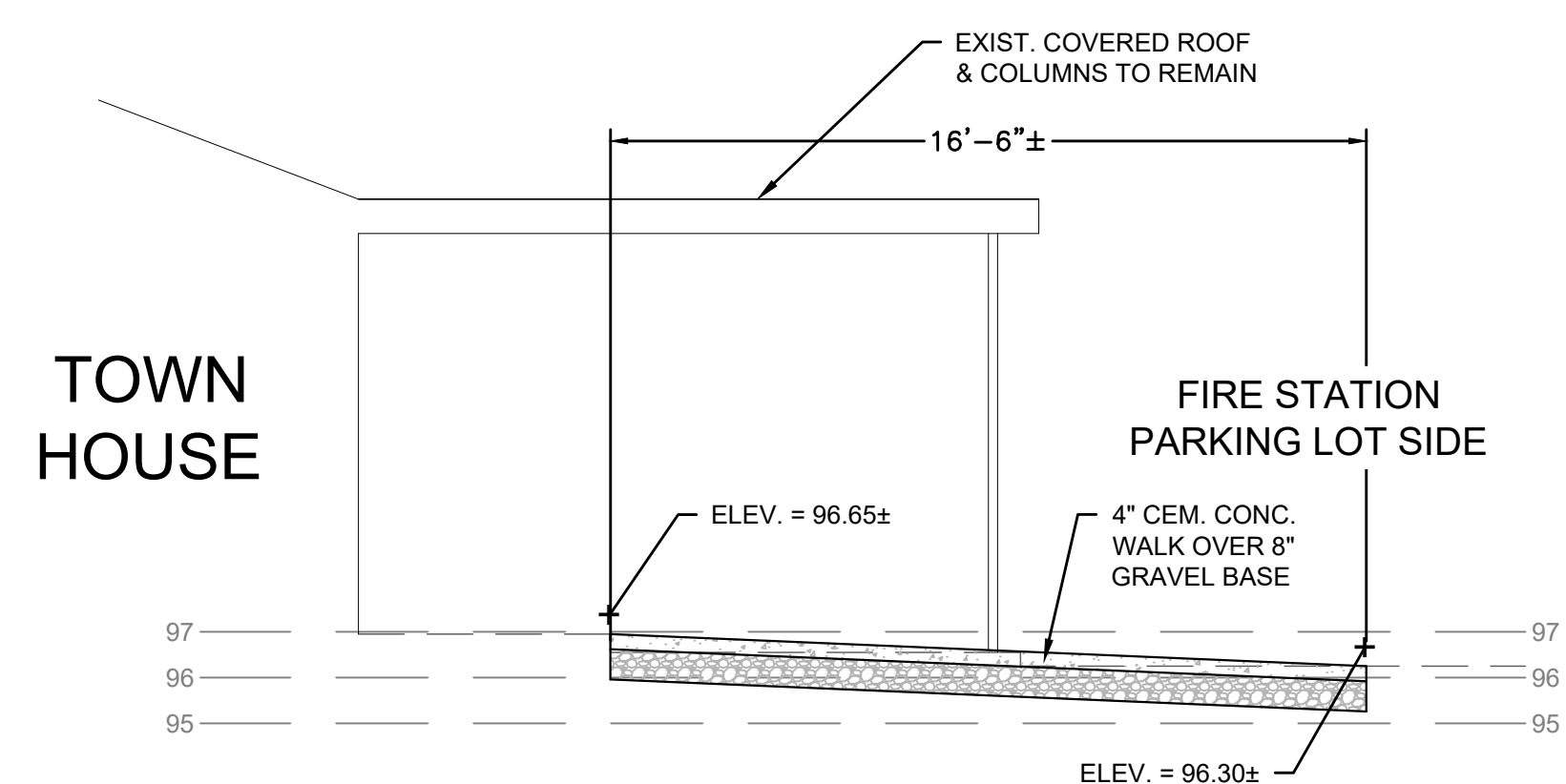
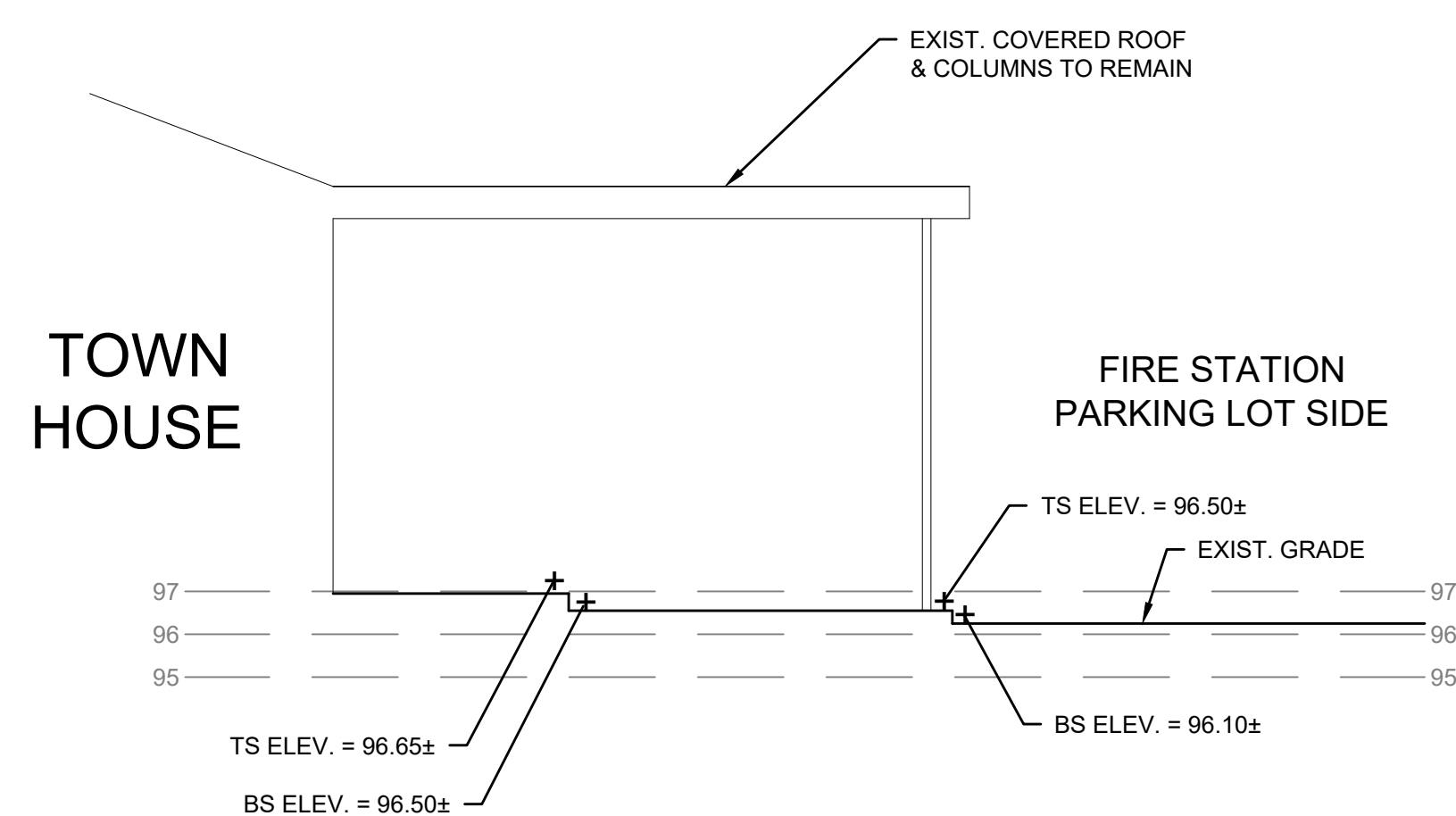
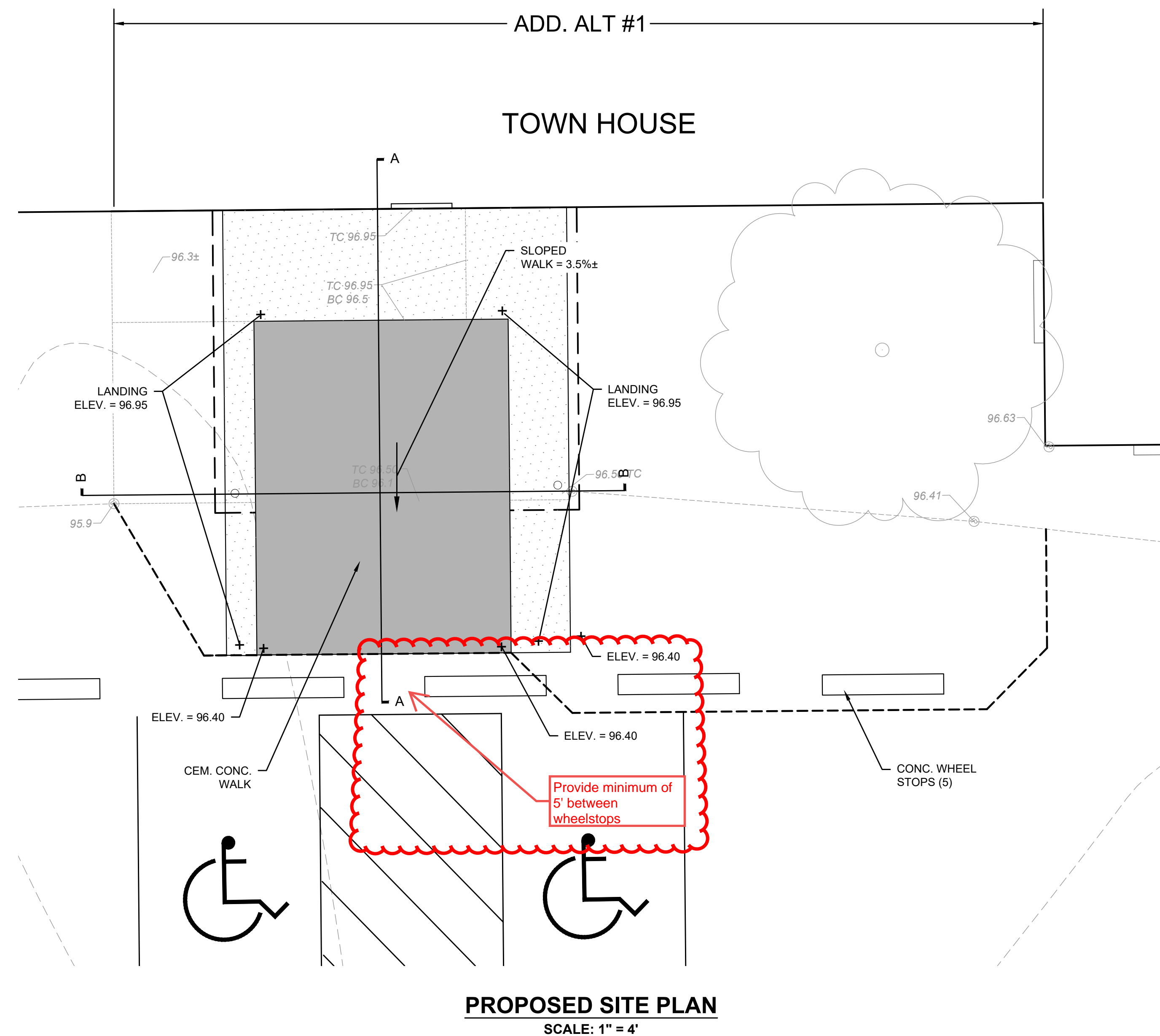
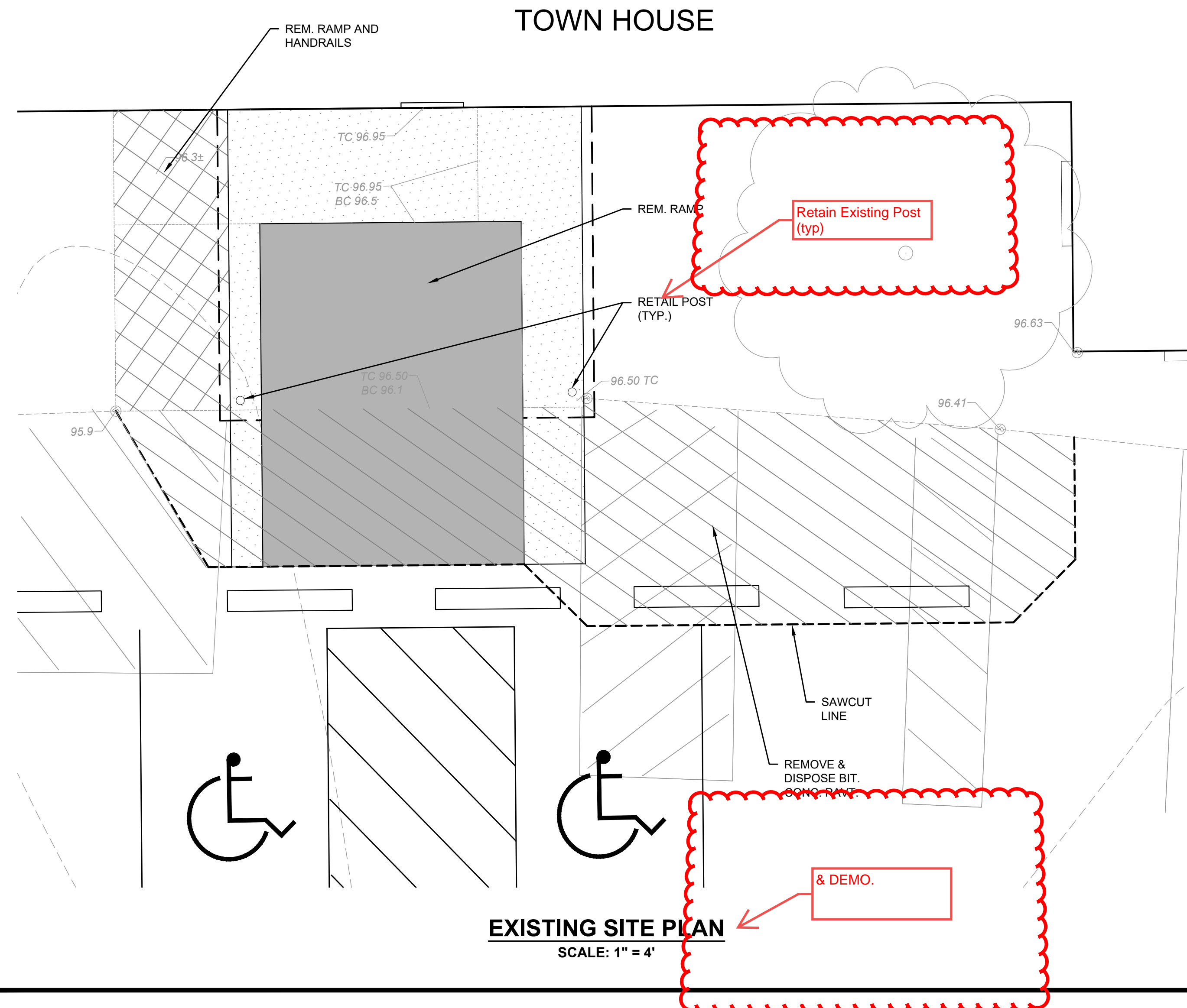


DRAWN BY:	CC/SR
DESIGNED BY:	SR
CHECKED BY:	BM
ISSUE DATE:	AUGUST 2021
BETA JOB NO.:	7433

SCALE IN FEET: 1"=4'

SHEET NO. .



[illegible]

NO.	REVISIONS	DATE
-----	-----------	------

DRAWN BY: CC/SR

STRAWN ST	SS/SK
STRAWN ST	SS

DESIGNED BY:	SR
--------------	----

CHECKED BY: BM

ISSUE DATE:	AUGUST 2024
-------------	-------------

ISSUE DATE:	AUGUST 2021

BETA JOB NO.: 7433

SCALE
-------

SCALE	
1	Not at all
2	Slightly
3	Moderately
4	Very much

SCALE IN FEET: 1"=4'

\_\_\_\_\_

UNLESS OTHERWISE NOTED OR CHANGED BY REPRODUCTION

--


SHEET NO. 4

0

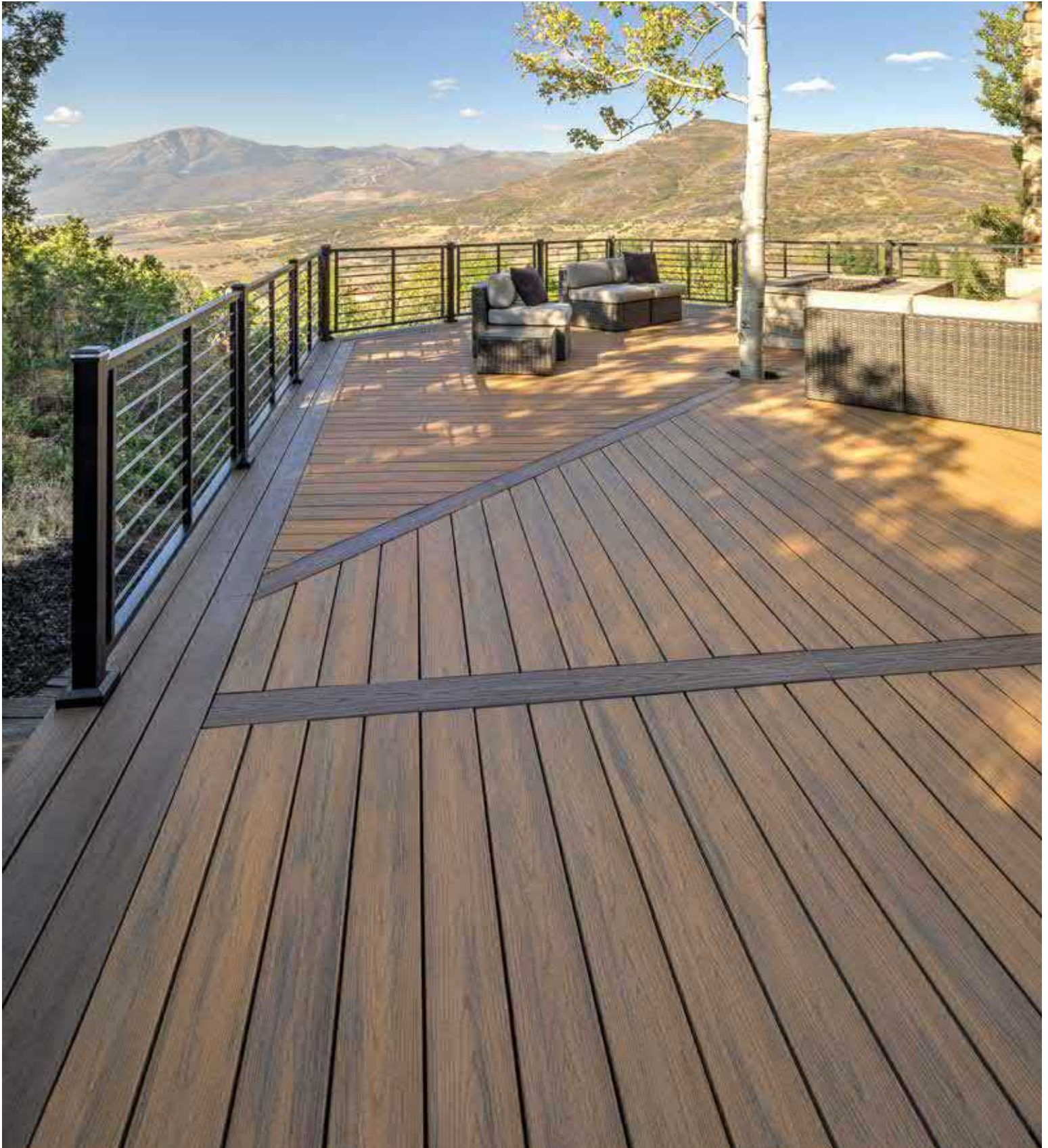
6

\_\_\_\_\_





# 2021 DECKING INSTALLATION GUIDE





# Trex Installation Guide

# CONTENTS

To learn about Trex Signature® Aluminum, Transcend® and Select® railing products, visit [www.trex.com/products/railing](http://www.trex.com/products/railing).

## What's New for 2021:

- Page 10 – Revised Trex Decking SKU'S
- Page 11 – Revised decking- and fascia-recommended fasteners
- Page 13 – Revised Framing and Fastening Tips
- Page 27 – Revised Decking Color Palette

## Need Help?

Trex provides a variety of valuable resources to answer your questions or concerns. For additional assistance, check out:

### » **Trex.com**

Here you will find a wealth of useful information on Trex's extensive products including: installation, care and cleaning instructions and videos, technical help, and FAQs. You'll also find inspiring photos of deck projects, steps to help you plan and start your project, and tips for selecting the right deck builder. At **trex.com**, you can request information, register your warranty, and reach out to customer service representatives who can answer even more questions.

- » Call **1-800-BUY-TREX (1-800-289-8739)** and speak to a Customer Loyalty Advocate who can answer your questions.

Refer to **[www.trex.com](http://www.trex.com)** for up-to-date installation and technical documents that may not be found in this printed guide.

Please visit our website at [www.trex.com](http://www.trex.com), and choose Literature at the top of the page, to review individual installation instructions for specific Trex lighting, post mounts, joist mount post, and all railing products. This will ensure you are using the most up-to-date installation instructions with these products.

## SECTION ONE: General Information

Safety .....	3
Tools .....	3
Care and Cleaning .....	4

## SECTION TWO: Planning Ahead

Trex® Decking .....	7
Railing (Including ADA Handrail) .....	7
Trex® DeckLighting™ .....	7
Trex RainEscape® Drainage System.....	7
Installing Hot Tubs, Planters, and Seating.....	7
Installing Fireplaces and/or Fire Pits .....	8
Installing a Pergola.....	8
Installing Trex Spiral Stairs™ .....	8
Installing Trex Outdoor Kitchens™ .....	8

## SECTION THREE: Decking

Decking, Fascia, and Fastener SKUs .....	10
Decking and Fascia Recommended Fasteners .....	11
Trex Fascia Installation Recommendations.....	12
Framing and Fastening Tips.....	13
Rooftop and Sleeper Deck Systems.....	14
Metal Framing Requirements and Gapping.....	15
Code Compliance.....	16
Gapping and Overhang .....	17

### How to Install Decking

Important Notes Before Installing Trex Decking.....	18
Routing Square Edged Boards for Trex Hideaway® .....	18
Hidden Fasteners .....	18
Abutted Board Attachment Requirements .....	18
Metal Framing.....	18
Installing Trex Transcend®, Enhance®, Select® Deck Boards .....	19
Replacing Trex Boards .....	20
Spanning Requirements For Trex Stairs.....	21
Installing Trex Stair Treads Installed with Hidden Fasteners.....	22

## SECTION FOUR: Warranties

Trex Transcend, Trex Enhance, Trex Select, and Trex Universal Fascia Limited Fade & Stain Warranty .....	24
Trex Limited Warranty.....	26
Color Palette.....	27



This symbol indicates text continues to next page.



## Safety

When working on any construction project, you should wear protective clothing and safety equipment. Wear safety glasses, gloves, a dust mask and long sleeves, particularly when cutting in confined spaces.

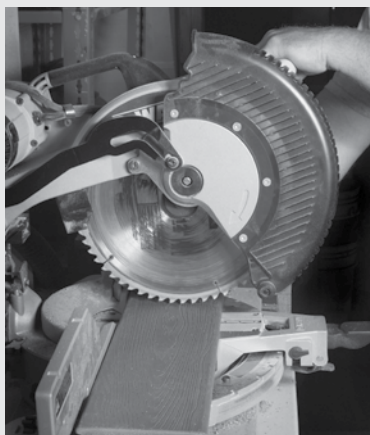
Trex decking and railing are heavier and more flexible than wood. **DO NOT** try to lift the same quantity of Trex boards as you would traditional lumber. Go to [www.trex.com](http://www.trex.com) for Safety Data Sheets (SDS).

## Tools

### SAWS

#### Miter Saw:

When using a miter saw we recommend using the Trex Blade™ or a carbide-tipped blade with 60 teeth or more. The Trex Blade comes in three different sizes and is ideal for cutting all Trex decking and railing products.



#### Jigsaw:

For detailed and/or small cuts (ie: cutting deck board to fit around a post), a jigsaw with a carbide-tipped blade can be used.



### DRILLS

Install Trex recommended fasteners with standard power drills, impact drivers (use care if using impact drivers), or right angle drills.



### SPECIFIC DECK BOARD ATTACHMENT TOOLS

#### Screw Guns:



Some Trex recommended deck fasteners are compatible with screw guns. Refer to the recommended fasteners page for more information.

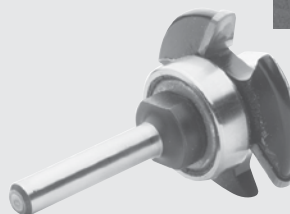
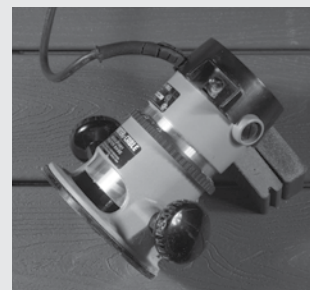
#### TigerClaw® Pneumatic Gun:

If choosing the TigerClaw TC-G Hidden Fasteners, the TigerClaw pneumatic gun is a terrific option that allows for quicker install time.



#### Trex Router Bit:

Trex decking routs to give extremely crisp edges when using the Trex Router Bit with standard router, and can be used with all Trex Hideaway Hidden Fasteners.



*\*Trex Blade™ is manufactured and sold by Freud Tools, Inc. under a Trademark License Agreement with Trex Company, Inc.*

*\*Tiger Claw® is a registered trademark of Tiger Claw, Inc.*

**NOTE: Construction methods are always improving. Please refer to [www.trex.com](http://www.trex.com) for the most up-to-date installation requirements.**



## Trex Transcend®, Trex Enhance®, and Trex Select® Care and Cleaning Guide

All exterior building materials require cleaning. Generally, soap and water is all that is required to clean Transcend, Enhance, and Select products. For additional information, see below.

Problem	Solution
Dirt and Debris	The affected area should be sprayed off with a hose to remove surface debris. Use warm soapy water and a soft bristle brush to remove dirt and debris from the embossing pattern.
Using a Pressure Washer (General Cleaning Issues)	A pressure washer with <b>no greater</b> than 3100 psi** that has a fan attachment/adjustment and soap dispenser may be used to remove dirt or mud. Spray deck with soap, then follow by gently scrubbing each deck board with a soft bristle brush. Spray/rinse each individual deck board using a fan tip no closer than 8-in (203 mm) from the decking surface. <b>RINSE THOROUGHLY.</b> If dirty water from cleaning is left to dry, a film will remain on the decking surface.
Issues with Concrete, Cement, Mortar, or Stucco Dust	When working with cement, concrete, mortar, or stucco, protect the decking as much as possible in order to not get dust particles on the decking surface. These particles, once they get hot or wet, can cause a reaction on the decking surface and are very difficult to remove. If particles get on the decking surface, Trex recommends using Sakrete™ Concrete Dissolver ( <a href="http://www.sakrete.com/products/concrete-dissolver">www.sakrete.com/products/concrete-dissolver</a> ). BE SURE TO FOLLOW MANUFACTURER'S INSTRUCTIONS.
Hard Water Staining	Hard water is water with high amounts of mineral deposits like lime, silica and calcium. When the water dries, deposits are left behind, leaving unsightly spots on surfaces. This is not a defect of Trex products but an issue with the water itself. Generally, these deposits can be cleaned with white vinegar on decking surfaces. Rinsing is required, so care should be taken to not use hard water for this purpose. If hard water must be used, dry with a cloth or use a blower to dry surfaces. In some cases a deck brightener product may also be used to help clean hard water stains.
Chalk Lines	Most colored chalks are permanent and may discolor the surface. Use only Irwin Strait-Line® Dust-Off Marking Chalk (purple), available at <a href="http://www.irwin.com">www.irwin.com</a> .
Tannins Due to Debris	Remove all debris from the deck using a hose or broom. Once the deck surface is dry, apply a deck "brightener"* to the deck as directed by the manufacturer. Deck Brighteners contain oxalic acid, which will also remove tannins.
Ice and Snow	A plastic shovel may be used to remove snow from the deck. Use calcium chloride or rock salt to melt the snow and ice from the deck surface.
Oil, Grease, and Food	All food spills should be removed as soon as possible. <b>The surface must be cleaned within seven days to maintain the stain warranty.</b> To remove, spray off with a hose and use warm, soapy water and a soft bristle brush to remove spills from the embossing pattern.
Mold and Mildew	If debris such as pollen and dirt is allowed to remain on the deck surface, mold can feed on the biofilm. Using a hose and warm, soapy water with a soft bristle brush is recommended to remove the food source and mold.



## Trex Transcend®, Trex Enhance®, and Trex Select® Care and Cleaning Guide

Problem	Solution
<b>Trex and Static Electricity</b>	<p>While this is not common, static electricity can occur on walking surfaces in dry climates or in areas where dry winds and dust-borne particles lay on the decking surfaces. Static electricity can build up on occupants walking across any composite decking surface, including Trex, then produce a small static shock if they touch a grounded metal surface such as railing, door, etc.</p> <p>This condition can be decreased greatly with the use of a product call ACL Staticide®. Two products tested were General Purpose Staticide® and Heavy Duty Staticide®. Both are effective in greatly reducing static electricity on Trex decking surfaces. Apply full strength, using a mop on a dry decking surface, and allow to dry; no rinsing or diluting needed. Products are non-toxic, non-flammable, non-staining (will not change the color of decking surface), completely biodegradable, and safe to use. Product is water-based and may require a second application after rain or other weather conditions. Over a period of time, the effect of static will dissipate naturally on the decking surface.</p> <p>See link for more information on product: <a href="http://www.aclstaticide.com/antistatic_coatings.html">www.aclstaticide.com/antistatic_coatings.html</a></p>
<b>Rubber Mats</b>	Use caution when using rubber-backed mats (i.e. welcome mats, etc.) as these may contain substances that can sometimes discolor or lighten the decking surface.
<b>Job Site Storage</b>	<p>Store decking on a flat level surface and ALWAYS use proper supports (dunnage). <b>DO NOT</b> store directly on the ground. When stacking decking bundles, supports (dunnage) should start approximately 8-in (203 mm) from each end and be spaced approximately 2-ft (0.61m) on center. In addition, supports (dunnage) should line up vertically/perpendicular to the decking product. Adjust support blocks (dunnage) accordingly if bundles are loose. For Select decking, Enhance decking, and 1x12 and 1x8 products, the maximum stack height is 12 bundles. For all other decking products maximum stack height is 14 bundles (<b>IMPORTANT TO NOTE THAT PROPER DUNNAGE SPACING MUST BE IN PLACE FOR THESE HEIGHTS</b>). When stacking multiple bundles, ensure that dunnage lines up vertically down through each stack. ALWAYS cover decking products on site until ready to be installed.</p>

Strait-Line® is a registered trademark of Irwin Industrial Tool Company.

Sakrete™ is a trademark of Oldcastle APG, a CRH Company.

\*Use of products containing bleach or acid can lighten the surface of Trex. Use in an inconspicuous area to determine whether you like the effect. Neither product will affect the structural integrity of Trex.

\*\*Use of a pressure washer greater than 3100 psi could damage the boards and void the warranty.

### NOTES:

- » Refer to [www.trex.com](http://www.trex.com) to view a general care and cleaning video for Transcend, Enhance, and Select decking.
- » Refer to [www.trex.com](http://www.trex.com) for a care and cleaning guide for Trex Early-Generation Composite and PVC Decking.



# PLANNING AHEAD

## Planning Ahead

### Trex Decking:

- » When installing any Trex decking product, especially Trex Transcend Tropicals, it is a good idea to mix and match all of the boards on the job site prior to installation to ensure an appealing mix of light and dark tones.
- » **DO NOT** combine Trex Select decking with other Trex decking products. Trex Select boards are thinner than Transcend and Enhance boards.
- » For added protection to wood framing, use Trex® Protect® Joist and Beam Tape on the top of joists, rim joists, and ledger boards to help prevent rot and wood decay. Refer to [trexprotect.com](http://trexprotect.com) for more details.

### Trex Decking Temperature:

Like many other outdoor surfaces, such as concrete, asphalt, beach sand, wood decking, other brands of composite decking, etc., Trex decking can get hot due to weather and sun exposure. On such days, care needs to be taken to make sure skin does not have extended contact with the surface of the deck, especially with young children and those with special needs. Please note also that the darker the color, the hotter the deck will feel. For hotter climates, consumers should consider choosing a lighter color.

### Railing (Including ADA Handrail):

- » First, pick the railing style you want.
- » Calculate your spanning based on the railing you chose.
- » Determine the number of balusters you will need based on the railing you chose.

**NOTE:** For post placement on stairs, it is **VERY IMPORTANT** to plan your post spacing based on the length of the rail and angle of the stairs. For nominal 6' and 8' stair rail lengths, stair post spans (measured horizontally) will be less than 6' or 8' due to the angle of the stairs.

**NOTE:** Trex Transcend and Select horizontal railings are made to be installed at maximum of 6' (1.83 m) or 8' (2.44 m) on center (depending upon type of railing you choose). Those railings are not true 6' (72") or 8' (96") in length. All Signature Railing products are made to be installed at maximum 6' or 8' CLEAR SPAN BETWEEN POSTS.

### Railing con't:

- » Determine post locations prior to installing any decking. In most cases, posts are usually installed before decking is installed.
- » Confirm with your local building official if ADA Handrail is required, and if so plan spanning for posts accordingly to allow for attachment of Trex ADA Handrail. ADA Handrail requires a span of 6' OC for posts.
- » Grill placement: A good recommendation to help prevent damage to your railing is to not have a grill too close to your railing. Allow for ample airspace 18"-30" is recommended – refer to grill manufacturer for additional details between the back/sides of your grill to help prevent charring or staining to the railing.

Refer to [www.trex.com](http://www.trex.com) to view detailed install instructions for Transcend, Select, or Signature railing.

### Trex Lighting:

- » Plan locations of lights, power supply, timer, and dimmer. These should be accessible for service if necessary.
- » Install wiring before decking and railing have been installed.
- » **DO NOT** run wires between joists and deck boards.

Refer to [www.trex.com](http://www.trex.com) to view detailed Trex lighting instructions.

### Trex® RainEscape® Deck Drainage System:

- » Plan ahead for deck layout to allow for proper placement of Trex RainEscape within the joist system.
- » Make sure joists are straight and square.

See [www.trex.com](http://www.trex.com) for more information on Trex RainEscape recommendations and installation. Trex RainEscape is manufactured and distributed by IBP, LLC, under a trademark license with Trex Company, Inc.

### Installing Hot Tubs, Planters, and Seating:

- » Plan ahead proper joist spanning if required (this is especially important if installing a hot tub).
- » Refer to page 16 for Trex Decking Span Chart for specific loads.

Call 1-800-BUY-TREX for detailed questions.





## Planning Ahead/continued

### Installing Fireplaces and/or Fire Pits With Trex Decking:



- » Determine if fire will be gas or wood burning. (**NOTE:** Most fire pits shown in Trex images are gas burning.)
- » For gas, the fire pit is installed by cutting around the Trex decking. **It is not to be installed on top of Trex decking.** A fire-resistant material is installed under the fire pit and a protective "wall" made from stone or other fire-resistant material is installed to hold fire pit in place and also protect the decking from heat.
- » For wood, fire pits are not recommended on top of Trex decking unless using a product called DeckProtect®. Wood-burning fire pits can damage the decking due to extreme heat from the bottom of the fire pit and/or burning embers "shooting" onto the decking. DeckProtect® was tested on all Trex decking and there were no issues with burning of the decking surface when placed directly under a standard size portable fire pit along with the accompanying rack (**NOTE:** Rack is not available for all sizes, so check with manufacturer first for verification). Trex does recommend that the DeckProtect® padding/rack be moved from time to time for general cleaning underneath. It should be noted that even when using DeckProtect®, burning embers could "shoot" beyond the protective mat and burn the deck.

For more information about this product, please visit their website at [www.deckprotect.net](http://www.deckprotect.net) or call 1-800-BUY-TREX. DeckProtect® is a registered trademark of Infinite Heat Solutions.

### Installing a Pergola on Trex Decking:

- » Keep in mind that if you are planning to install a Trex® Pergola™ on your deck, you will need access to the underside of the deck. Trex Pergola mounts with a 10" x 10" (254 mm x 254 mm) aluminum plate on the underside of the deck, creating a clamping effect on both the top and bottom of the deck for maximum strength. If installed, water barriers and any under deck coverings will have to be removed to properly install the pergola posts.

- » You need to consider the location of your pergola posts with respect to joists. However, you do not have to mount your plates between joists. It is possible to place blocks on the bottom of the joists and mount the Trex Pergola brackets through the blocks.



Trex® Pergola™ products are manufactured and sold by Home & Leisure, Inc., d/b/a/ Structureworks under a Trademark License Agreement with Trex Company, Inc. A 25-year Limited Warranty is provided by manufacturer.

### Installing Trex® Spiral Stairs™:

- » Refer to [www.trexspiralstairs.com](http://www.trexspiralstairs.com) for detailed information on how to plan and install Trex Spiral Stairs.

Trex® Spiral Stairs™ are manufactured and sold by M. Cohen and Sons, Inc., d/b/a The Iron Shop, under a Trademark License Agreement with Trex Company, Inc. A 25-year Limited Warranty is provided by manufacturer.

### Installing Trex® Outdoor Kitchens™:

- » Refer to [trex-outdoorkitchens.com](http://trex-outdoorkitchens.com) for detailed information on how to install Trex Outdoor Kitchen products.

Trex® Outdoor Kitchens™ is manufactured and sold by CT Acquisitions LLC., under a Trademark Agreement with Trex Company, Inc. A Limited Warranty is provided by the manufacturer.

**NOTE:** You can always reference the Design Tools Section on [www.trex.com](http://www.trex.com) for additional planning ahead aids.

*\*DeckProtect® is a registered trademark of Infinite Heat Solutions.*

**NOTE:** Construction methods are always improving. Please refer to [www.trex.com](http://www.trex.com) for the most up-to-date installation requirements.

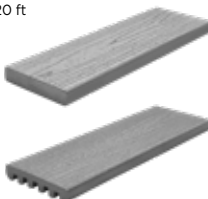

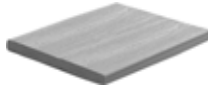
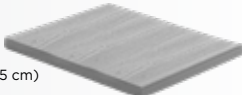



# DECKING




A black and white photograph of a wooden deck with two armchairs, a small table, and potted plants, overlooking a forested mountain landscape. The deck is made of wide wooden planks. Two armchairs with cushions are positioned on the deck. A small table with a bottle and glasses is between them. Potted plants are on the right side of the deck. The background shows a dense forest of evergreen trees and distant mountains under a cloudy sky.



# TREX® DECKING & FASCIA

PROFILE			DESCRIPTION	ITEM NUMBER	COLORS
<b>1" Square-Edge Board</b>  Actual dimensions: Transcend & Enhance: .94 in x 5.5 in x 12 ft / 16 ft / 20 ft (24 mm x 140 mm x 365 cm / 487 cm / 609 cm)  Select: .82 in x 5.5 in x 12 ft / 16 ft / 20 ft (20 mm x 140 mm x 365 cm / 487 cm / 609 cm) 	1 x 6 x 12'	Transcend Tropicals	XX010612TS01	IM, TT, HG, SR, LR	
	1 x 6 x 16'	Transcend Tropicals	XX010616TS01		
	1 x 6 x 20'	Transcend Tropicals	XX010620TS01		
	1 x 6 x 12'	Transcend Earth Tones	XX010612T2S01	GP, RS, VL	
	1 x 6 x 16'	Transcend Earth Tones	XX010616T2S01		
	1 x 6 x 20'	Transcend Earth Tones	XX010620T2S01		
	1 x 6 x 12'	Enhance Basics	XX010612E2S01	CS, BD, SD	
	1 x 6 x 16'	Enhance Basics	XX010616E2S01		
	1 x 6 x 20'	Enhance Basics	XX010620E2S01		
	1 x 6 x 12'	Enhance Naturals	XX010612E2S01	FW, RH, TS, CB	
1 x 6 x 16'	Enhance Naturals	XX010616E2S01			
1 x 6 x 20'	Enhance Naturals	XX010620E2S01			
7/8 x 6 x 12'	Select	XX010612SS01	PG, WG, SD, WB, MB		
7/8 x 6 x 16'	Select	XX010616SS01			
7/8 x 6 x 20'	Select	XX010620SS01			
<b>1" Grooved-Edge Board</b>  Actual dimensions: Transcend & Enhance: .94 in x 5.5 in x 12 ft / 16 ft / 20 ft (24 mm x 140 mm x 365 cm / 487 cm / 609 cm)  Select: .82 in x 5.5 in x 12 ft / 16 ft / 20 ft (20 mm x 140 mm x 365 cm / 487 cm / 609 cm) 	1 x 6 x 12'	Transcend Tropicals	XX010612TG01	IM, TT, HG, SR, LR	
	1 x 6 x 16'	Transcend Tropicals	XX010616TG01		
	1 x 6 x 20'	Transcend Tropicals	XX010620TG01		
	1 x 6 x 12'	Transcend Earth Tones	XX010612T2G01	GP, RS, VL	
	1 x 6 x 16'	Transcend Earth Tones	XX010616T2G01		
	1 x 6 x 20'	Transcend Earth Tones	XX010620T2G01		
	1 x 6 x 12'	Enhance Basics	XX010612E2G01	CS, BD, SD	
	1 x 6 x 16'	Enhance Basics	XX010616E2G01		
	1 x 6 x 20'	Enhance Basics	XX010620E2G01		
	1 x 6 x 12'	Enhance Naturals	XX010612E2G01	FW, RH, TS, CB	
1 x 6 x 16'	Enhance Naturals	XX010616E2G01			
1 x 6 x 20'	Enhance Naturals	XX010620E2G01			
7/8 x 6 x 12'	Select	XX010612SG01	PG, WG, SD, WB, MB		
7/8 x 6 x 16'	Select	XX010616SG01			
7/8 x 6 x 20'	Select	XX010620SG01			
<b>1" x 8" Fascia</b>  Actual dimensions: Transcend, Enhance, Select, Universal White: .56 in x 7.25 in x 12 ft (14 mm x 184 mm x 365 cm) 	1 x 8 x 12'	Transcend Tropicals	XX010812TS01	IM, TT, HG, SR, LR	
	1 x 8 x 12'	Transcend Earth Tones	XX010812T2S01		GP, RS, VL
	1 x 8 x 12'	Enhance Basics	XX010812E2S01	CS, BD, SD	
	1 x 8 x 12'	Enhance Naturals	XX010812E2S01		FW, RH, TS, CB
	1 x 8 x 12'	Select	XX010812SS01	PG, WG, SD, WB, MB	
1 x 8 x 12'	Universal White	WW010812ES01	WW		
<b>1" x 12" Fascia</b>  Actual dimensions: Transcend, Enhance, Select, Universal White: .56 in x 11.375 in x 12 ft (14 mm x 288 mm x 365 cm) 	1 x 12 x 12'	Transcend Tropicals		XX011212TS01	IM, TT, HG, SR, LR
	1 x 12 x 12'	Transcend Earth Tones	XX011212T2S01	GP, RS, VL	
	1 x 12 x 12'	Enhance Basics	XX011212E2S01		CS, BD, SD
	1 x 12 x 12'	Enhance Naturals	XX011212E2S01	FW, RH, TS, CB	
	1 x 12 x 12'	Select	XX011212SS01		PG, WG, SD, WB, MB
1 x 12 x 12'	Universal White	WW011212ES01	WW		
<b>2" Square-Edge Board</b>  Actual dimensions: Transcend 2x4: 1.3 in x 3.4 in x 16 ft (33 mm x 86 mm x 487 cm) Transcend & Select 2x6: 1.3 in x 5.5 in x 12 ft / 16 ft / 20 ft (33 mm x 140 mm x 365 cm / 487 cm / 609 cm) 	2 x 4 x 16'	Transcend Tropicals		XX020416TS01	IM, TT, HG, SR, LR
	2 x 6 x 12'	Transcend Tropicals	XX020612TS01	IM, TT, HG, SR, LR	
	2 x 6 x 16'	Transcend Tropicals	XX020616TS01		
	2 x 6 x 20'	Transcend Tropicals	XX020620TS01		
	2 x 6 x 12'	Select	XX020612SS01	PG, SD, WB, MB	
	2 x 6 x 16'	Select	XX020616SS01		
2 x 6 x 20'	Select	XX020620SS01			

XX = COLOR PREFIX:	IM Island Mist	GP Gravel Path	SD Saddle	TS Toasted Sand	WW Wood Grain White
	TT Tiki Torch	RS Rope Swing	WB Woodland Brown	CB Coastal Bluff	
	HG Havana Gold	VL Vintage Lantern	MB Madeira	CS Clam Shell	
	SR Spiced Rum	PG Pebble Grey	FW Foggy Wharf	BD Beach Dune	
	LR Lava Rock	WG Winchester Grey	RH Rocky Harbor	SD Saddle	

TREX HIDEAWAY® HIDDEN FASTENING SYSTEM	DESCRIPTION	ITEM NUMBER
Universal Starter Clip	 400 sq. ft. (37 sq. m) bag	UNIVSTARTCLIP
Universal Fastener (glass-filled nylon)	 50 sq. ft. (4.6 sq. m) box 500 sq. ft. (46.5 sq. m) bucket	UNIVCONCLIP DA00002
Router Bit	 Router Bit	ROUTBIT

**NOTE: Construction methods are always improving. Please refer to [www.trex.com](http://www.trex.com) for the most up-to-date installation requirements.**

# Decking and Fascia Recommended Fasteners

If any condition occurs which is attributable to the use of non-recommended fasteners, such condition shall not be covered under the Trex Limited Warranty.

		Transcend <sup>®</sup>	Enhance <sup>®</sup> (scalloped profile)	Select <sup>®</sup>
RECOMMENDED FASTENERS	DECKING-HIDDEN FASTENERS			
	Trex Hideaway <sup>®</sup> Universal Hidden Fastener	X	X	X
	TigerClaw <sup>®</sup> TC-G Hidden Fastener	X	X	X
	Cortex <sup>®</sup> Concealed Fasteners*	X		X
	Starborn <sup>®</sup> Pro Plug <sup>®</sup> System for PVC & Composite (Epoxy Coated & Stainless) (2" are approved for sleeper & roof top applications only)	X		X
	Simpson Strong-Tie <sup>®</sup> Deck Drive <sup>™</sup> DCU Composite Screw & DCU Screw Plugs (Handdrive only & must also use Auto-Set Drive Bit)	X		X
	DECKING-COMPOSITE SCREWS			
	FastenMaster <sup>®</sup> TrapEase <sup>®</sup> 3 Ultimate Composite Deck Screw	X	X	X
	Simpson Strong-Tie <sup>®</sup> Deck-Drive <sup>™</sup> DCU Composite Screw (Collated & Handdrive)	X	X	X
	Quik Drive <sup>®</sup> Composi-Lok Deck Screw	X	X	X
	SplitStop <sup>™</sup> Titan III Composite Screw	X	X	X
	Starborn <sup>®</sup> Cap-Tor <sup>®</sup> xd Epoxy Coated & Headcote <sup>®</sup> Stainless (available collated for Muro CH7390 Driver**) (2" are approved for sleeper & roof top applications only)	X	X	X
	Screw Products C-Deck Exterior Star Drive Composite Deck Screw	X	X	X
	Phillips II Plus <sup>®</sup> Pozisquare	X	X	X
	Muro <sup>®</sup> T-Screw Torx Stainless Steel Screw - Collated (TX0212SFD or M-TX0300SEP)	X	X	X
	Kameleon <sup>™</sup> GRKFasteners <sup>™</sup>			X
RECOMMENDED FASTENERS	FASCIA**			
	Cortex <sup>®</sup> Hidden Fastening System for Fascia	X	X	X
	Starborn <sup>®</sup> Pro Plug <sup>®</sup> System for Fascia - Epoxy Coated & Stainless	X	X	X
	Starborn <sup>®</sup> Deckfast <sup>®</sup> Fascia System - Epoxy Coated* & Headcote <sup>®</sup> Stainless	X	X	X
	SplitStop <sup>™</sup> Fascia Screw	X	X	X
	Simpson Strong-Tie <sup>®</sup> Fascia Board Screw	X	X	X
	FastenMaster <sup>®</sup> TrapEase <sup>®</sup> Fascia Fastener	X	X	X

## NOTES:

- » Do not use any hidden fasteners that are plug based with Trex Enhance profiles with scalloped bottom.
- » 2-3/4" or 3" screws can be used with Trex 2x6 product.
- » Muro T-Screw M-TX0300SEP listed above is approved for 2x6 decking (can also be used with standard 1" (decking as listed above). This screw is collated and can be used with Muro Auto Feed Screw Gun FDVL41 Speed Driver. **(NOTE: THIS IS NOT A COLOR-MATCH SCREW.)**
- » All decking products are approved for use with Trex Hideaway Hidden Fasteners, thus all decking products can be routed according to our instructions.
- » Simpson Strong-Tie Deck Drive DCU Composite Screw in collated versions works with Quik Drive gun.
- » \* Not for use with sleeper systems. Refer to FastenMaster<sup>®</sup> literature for more information. Also, these are approved with Trex 2x6 decking profiles.
- » \*\* Fascia system screws listed above **can only be used with composite fascia profiles**, and cannot be used with standard thickness decking boards used as fascia. Use stainless steel screws near water applications.
- » Trex recommends the use of two screws per joist.
- » All recommended screws are designed to be installed flush with decking surface. DO NOT countersink screws.
- » Use recommended stainless steel screws in any areas near bodies of saltwater.

FastenMaster<sup>®</sup> TrapEase<sup>®</sup> 3 and Cortex<sup>®</sup> are registered trademarks of OMG, Inc.

Quik Drive<sup>®</sup> is a registered trademark and Composi-Lok<sup>™</sup> is a trademark of Simpson Strong-Tie Company, Inc.

DeckFast<sup>®</sup> Cap-Tor<sup>®</sup> xd and HeadCote<sup>®</sup> Cap-Tor<sup>®</sup> xd are registered trademarks of Starborn Industries Inc.

C-Deck Exterior Star Deck Composite Deck Screw is a product of Screw Products Inc.

Phillips II Plus<sup>®</sup> is a registered trademark of Phillips Fasteners LLC.

SplitStop<sup>™</sup> screws are a registered trademark of Titan Metal Werks, Inc.

Minimum Fastener Size		
SCREWS		
Profile	Length	No.
1x6	2-1/2" or 2-3/4"	#8, #10
2x6	2-3/4" or 3"	#8, #10



# Trex® Fascia Installation Recommendations

Trex Fascia utilized around the perimeter of a deck must be gapped with the same requirements as Trex decking to allow for air flow and expansion/contraction of the fascia.

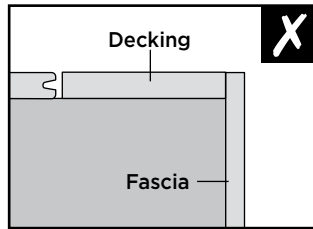
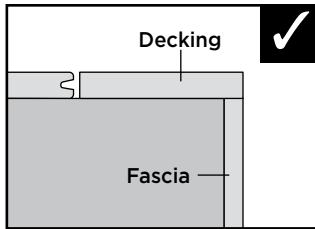
## When Using Approved Fascia Fasteners:

**NOTE:** The fasteners listed below can only be used with 1x8 or 1x12 fascia product, and cannot be used with decking product that is being used as fascia trim or stair risers.

See previous page for Trex-recommended Fascia fasteners.

Always refer to manufacturing instructions first for installation methods. If instructions are not specific, refer to the diagram below. Always remember to gap fascia properly. A secondary glue is not required when using these fasteners.

**NOTE:** Instructions below reflect the use of Trex-recommended fascia fasteners. If using deck boards as fascia, refer to the recommendations in next column on this page.



Install fascia **UNDER** decking edges/ends. This will provide protection to the fascia/framing seam as well as optimize the aesthetics of the installation.

**Do Not** install fascia in the method shown here. The fascia board must be attached fully to the rim joist and cannot run parallel to the decking surface.

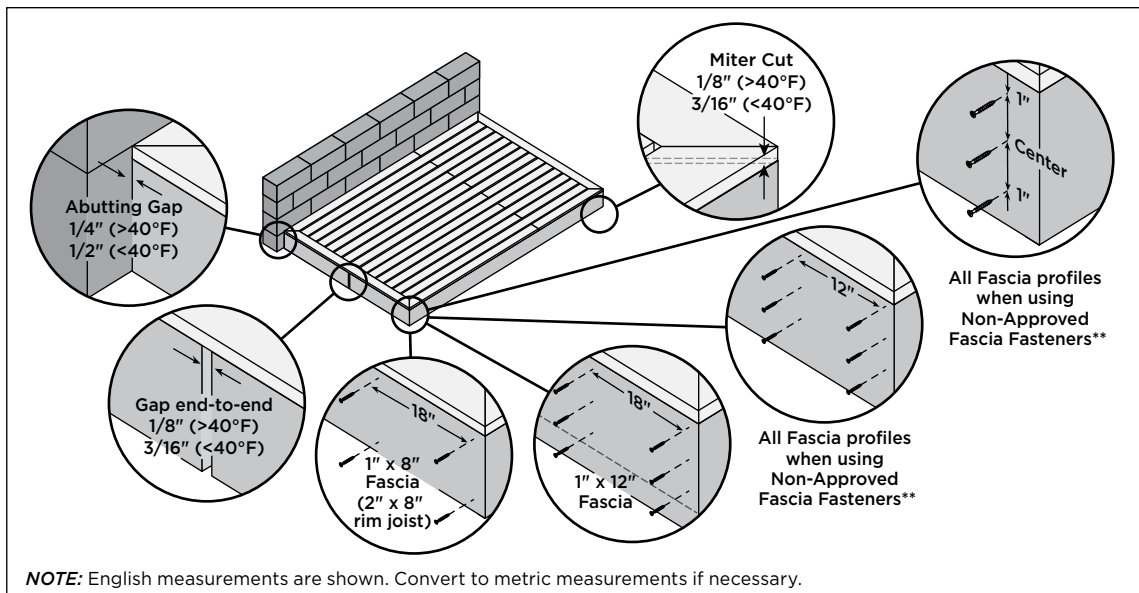
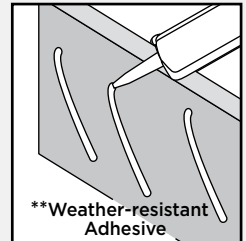
## TIPS:

- » 10" rim joists (represented below unless noted) allow for an easier and more aesthetically pleasing installation.

## If Using Other Fasteners and/or Using Decking Product in Fascia/Stair Riser Applications:

While Trex prefers the previous methods of attachment, as these are the very best options, there are also other recommendations that can be followed for fascia or deck boards being used for fascia. Use three Trex recommended composite decking screws every 12". *ALWAYS refer to manufacturer instructions to ensure that recommended screws can be used for fascia applications.* The top screw should be placed 1" from the top of the **rim joist**, the second screw in the center of the rim joist, and the third screw 1" from the bottom of the **rim joist**.

**\*\*IN ADDITION**, also use a weather-resistant, construction-grade adhesive (adhesives that work with wood will work with Trex products) as a **SECONDARY** fastener when attaching fascia. *Remember to wipe away any excess before it dries or is allowed to drip on other Trex surfaces.*



**NOTE:** English measurements are shown. Convert to metric measurements if necessary.

**NOTE:** Construction methods are always improving. Please refer to [www.trex.com](http://www.trex.com) for the most up-to-date installation requirements.

## Framing and Fastening Tips

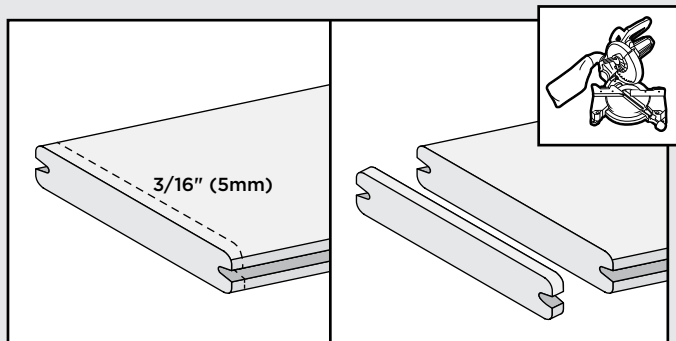
### Fastening Tip for Trex Transcend, Trex Enhance, and Trex Select

**NOTE:** When using pneumatic or battery-operated equipment, adjust the pressure so that you only shoot the head of the screw to be flush with the board's cap. DO NOT shoot the fastener head completely through the shell.

### Trex Products Near Low-E Windows

Low-E glass reflects more sunlight. It has been observed that the extra reflectivity, combined with any concavity in the glass, can act like a concave mirror. This mirror effect concentrates sunlight onto outdoor objects, including that of decking and railing. This can result in an extreme amount of heat concentrated on areas of the decking surface. This can sometimes char the decking surface or cause the decking to slightly bow.

### Clean Cut Boards



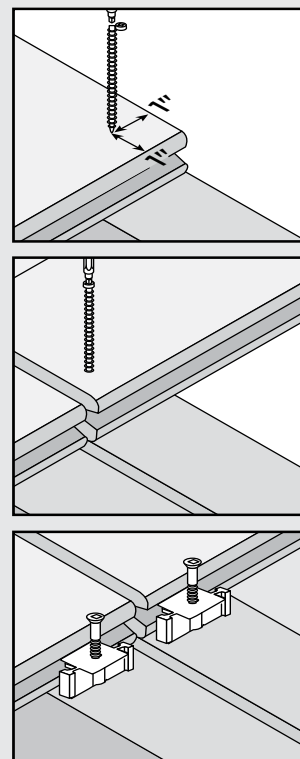
**It is recommended that boards be clean cut on both ends a minimum of 3/16" (5mm).**

Composite decking is a great alternative to traditional wood decking. When building your deck and railing, it is recommended that code-approved structural material be used as the framing and joists. Check your local building codes for restrictions. Trex decking cannot be used for structural applications. **Do not** attach Trex decking directly to any solid surface or watertight system.

In most cases, install fasteners at a 90° angle (perpendicular to the board).

At board ends on the deck's edge, you can install screws placed perpendicularly at the recommended distance, at minimum of 1" (25mm) from the board end and edge, without splitting the board.

For butt joints, where boards meet over a single joist, add a 2" x 4" "nailer" board at the butt joint. This allows screw-in at 90 degrees and allows fasteners to be used at end of each board.



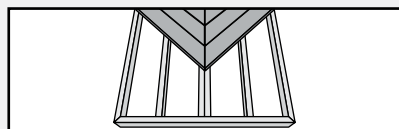
### Dock Applications

Trex decking contains no materials that will harm marine life and is safe for the environment. As long as dock is in intermittent contact with water, i.e., splashing and not in continuous direct contact with water, the durability of the Trex decking should not be affected.

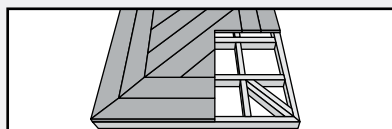
For docks, a 3/8" (10mm) width-to-width gap between boards is recommended to allow for increased drainage due to increased contact with water. In addition, stainless steel fasteners should be used. If there is sufficient contact between the dock and gasoline, grounding of the dock is also recommended.

### Special Patterns

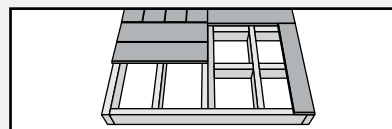
When planning a unique pattern, you will need to adjust the framing to support the surface pattern. Many decks are designed to take advantage of angles, as shown below.



Herringbone Pattern



Picture Frame Pattern



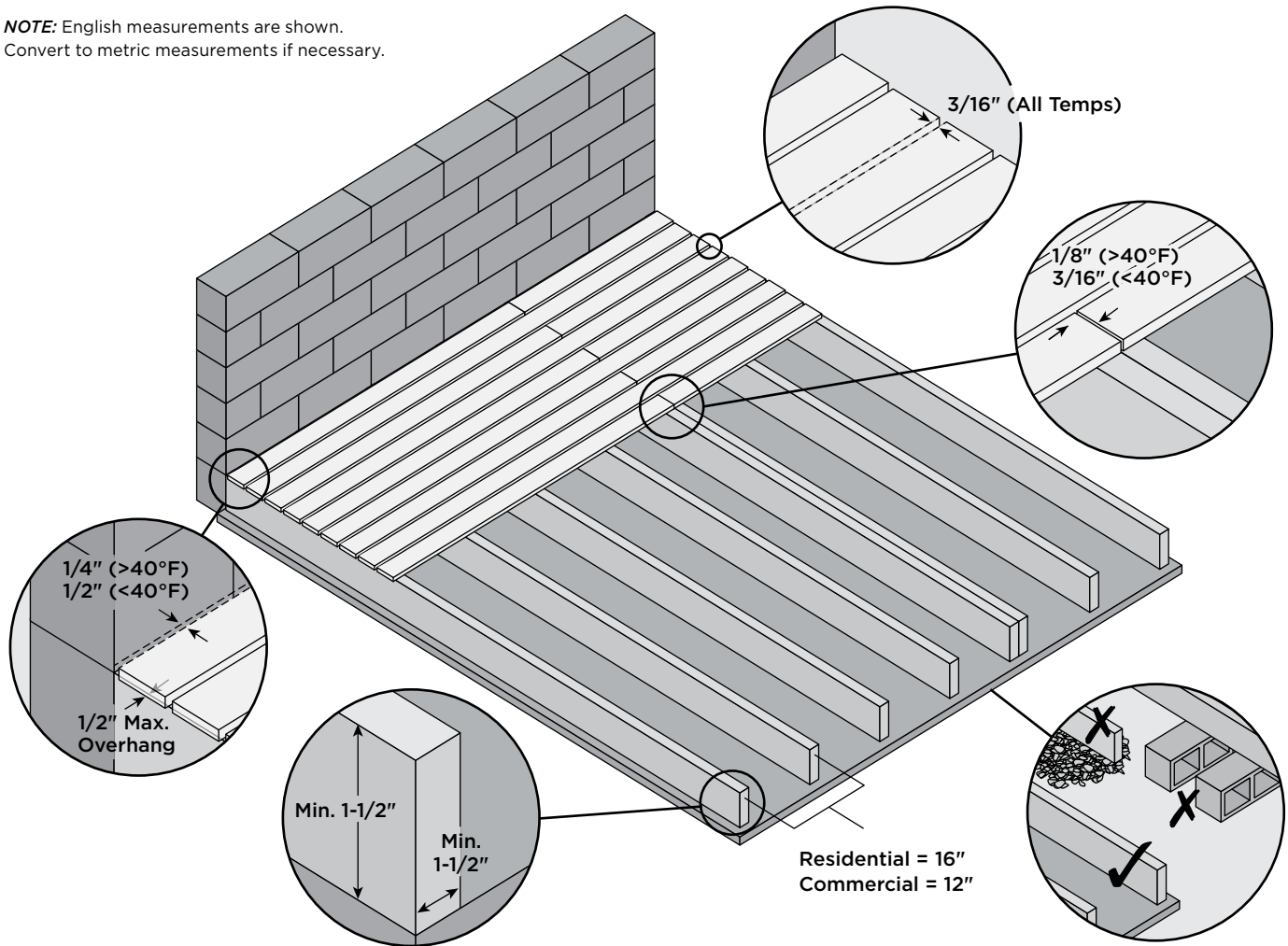
Tile Pattern



## Rooftop and Sleeper Deck Systems – Pressure-Treated Framing

A sleeper system is a substructure between a solid surface and Trex decking. Drainage, access, and airflow are critical. Water must be able to flow through and away from the deck. For repairs and removal of debris, joist system access may be necessary.

**NOTE:** English measurements are shown.  
Convert to metric measurements if necessary.

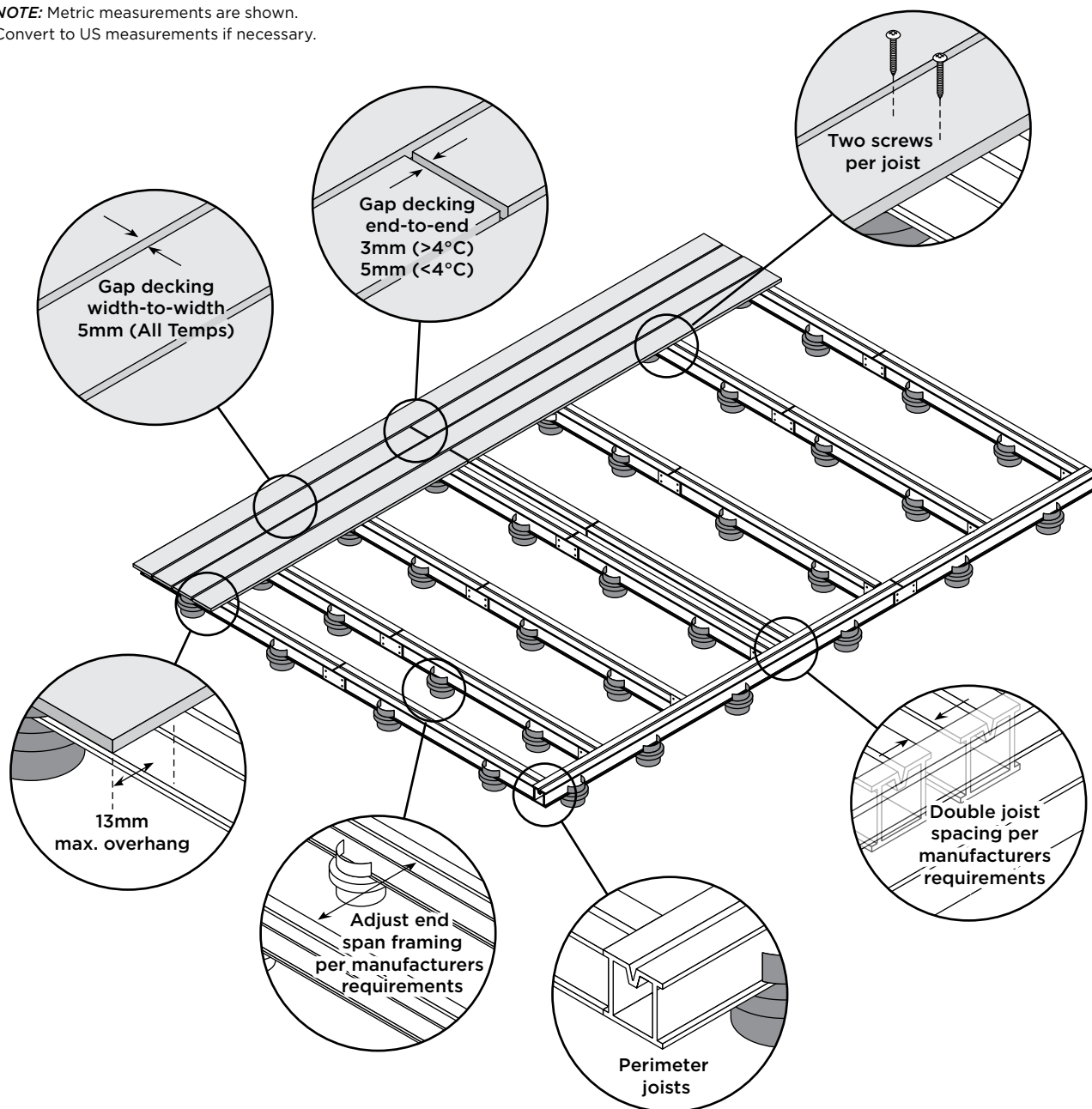


- » It is recommended that building-code approved structural material be used as the supports.
- » This system should not be allowed to float. It must be attached in a manner that secures the framing/system.
- » The sleeper system must be level and have no uneven undulations. Any uneven areas of the substructure will transfer to the Trex decking, resulting in uneven decking.
- » Trex, when used with a sleeper system, must be supported below its entire length. If using in a roofing application, the supports must run the direction of the pitch of the roof to facilitate proper drainage. Sleeper should be placed perpendicular to the deck board orientation.
- » For commercial applications, consult a local building code official for specific requirements.
- » If installing decking at an angle, decrease spans 4" (100 mm) for each of the above. (12" (305 mm) for residential and 8" (204 mm) for commercial.)
- » For sleeper systems where small debris (pine needles, leaves, sand, dirt) can accumulate either between or under deck boards, a minimum of  $1\frac{1}{2}"$  (38mm) height is allowable. Trex recommends the use of Trex Universal Hidden Fasteners or 2" Starborn Cap-Tor® xd - Epoxy Coated screws. **NOTE:** Trex recommended composite decking screws are too long when using  $1\frac{1}{2}"$  (38 mm) height as this will penetrate through the sleeper. For areas with the potential for debris buildup, a minimum  $3\frac{1}{2}"$  (89 mm) or greater height is recommended to allow the debris to be removed along with the use of either Trex Universal Hidden fasteners or any Trex recommended screws.
- » **Always** consult your local building code authority for proper details on roof and railing installation to the roof structure if required.
- » Any deviation from these recommendations could result in voiding of the Trex warranty.

**NOTE:** Construction methods are always improving. Please refer to [www.trex.com](http://www.trex.com) for the most up-to-date installation requirements.

## Metal Framing Requirements and Gapping

**NOTE:** Metric measurements are shown.  
Convert to US measurements if necessary.



### NOTES:

- » When using an aluminum framing system or other type of metal for sleeper systems, follow manufacturer's instructions for proper installation.
- » Depending on type of structure being used, different types of fasteners must be used for attachment.
- » When using screws to attach decking to framing, use two screws per every joist.



# Code Compliance

## Joist Spanning for Decking

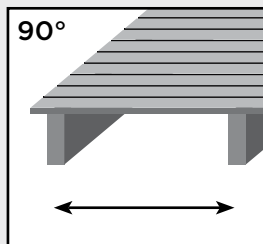
Trex decking meets all applicable national model building codes. The joists must be spaced on center according to the chart below. Be sure that joists are level and plumb. Trex decking must span at least three joists. For heavy items such as hot tubs, planters, etc., consult a local building engineer or inspector for span recommendations. If you want to minimize the appearance of joists through the spaces between boards, paint the top of your joists black.

## Code Listings

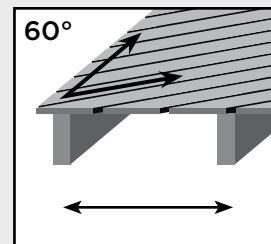
Trex complies with major model building codes and has been evaluated by the International Code Council evaluation service.

For a Safety Data Sheets (SDS), please visit [www.trex.com](http://www.trex.com).

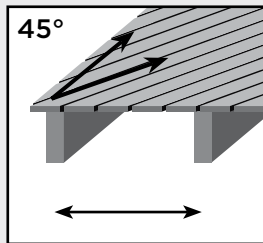
## Adjust Joist Spanning to Accommodate Angled Decking Patterns



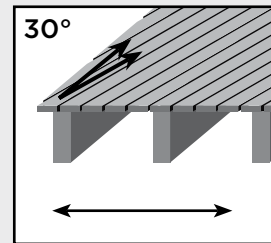
Perpendicular to joists.  
See chart below.



At a 60° angle, maximum joist spanning is 2" (51 mm) less than listed in the chart below.



At a 45° angle, maximum joist spanning is 4" (102 mm) less than listed in the chart below.



At a 30° angle, maximum joist spanning is 1/2 of the distance listed in the chart below.

Trex Decking Span Chart (on center)

	Residential Decks, Light Duty Docks, Residential/Day Care Playground	Commercial Decks, Boardwalks and Marinas	
Decking Loading	100 psf = 4.8 kN/m <sup>2</sup>	100 psf = 4.8 kN/m <sup>2</sup>	200 psf = 9.5 kN/m <sup>2</sup>
1" (25 mm) Boards, and .875" (22 mm) Select Boards	16" (406 mm)	16" (406 mm)	12" (305 mm)
2" x 6" (51 mm x 152 mm) Boards	24" (610 mm)	24" (610 mm)	16" (406 mm)

Trex Railing Span Chart

Maximum Railing Span for all Applications	
Transcend, Select railing, and Trex Signature railing	96" on center (2438 mm) for Transcend, 72" on center (1829 mm) for Select, 96" (2438 mm) clear span for Trex Signature

**NOTE: Construction methods are always improving. Please refer to [www.trex.com](http://www.trex.com) for the most up-to-date installation requirements.**

# Gapping and Overhang

You must gap Trex decking both end-to-end and width-to-width. Gapping is necessary for drainage and the slight thermal expansion and contraction of Trex decking boards. Gapping also allows for shrinkage of the wood joist system.

- » **ALWAYS** follow Trex-recommended gapping guidelines.
- » Maximum allowable perpendicular overhang for all Trex decking is 1/2" (13 mm).
- » All decks require air circulation to keep them dry and looking good. To improve air flow, leave openings under the decking or increase gapping to 3/8" (10 mm).

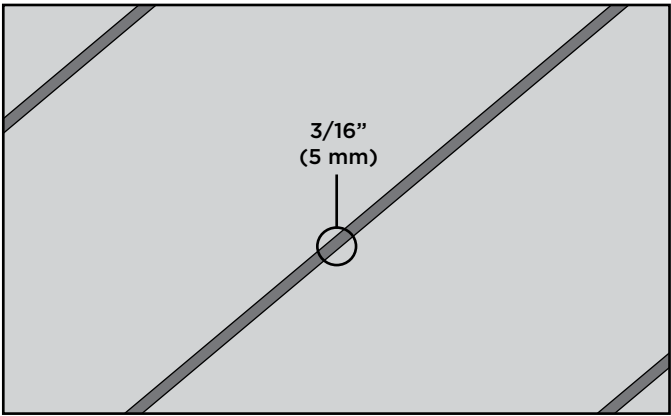
Width-to-Width Gap
3/16" (5 mm)

End-to-End/End-to-Width and Abutting Gap		
	End-to-End/ End-to-Width	Abutting Gap
Above 40°F* (4.5°C)*	1/8" (3 mm)	1/4" (6 mm)
Below 40°F* (4.5°C)*	3/16" (5 mm)	1/2" (13 mm)

\*Temperature at installation.

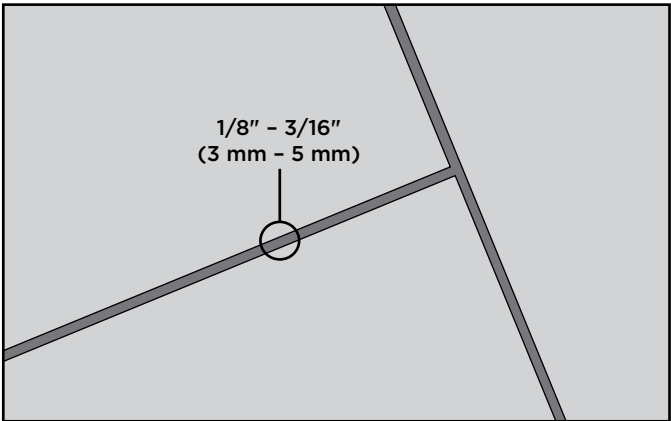
When you use the recommended hidden fasteners, the placement of the hidden fastener establishes the designated gap size.

When installing fascia, gapping rules must apply.



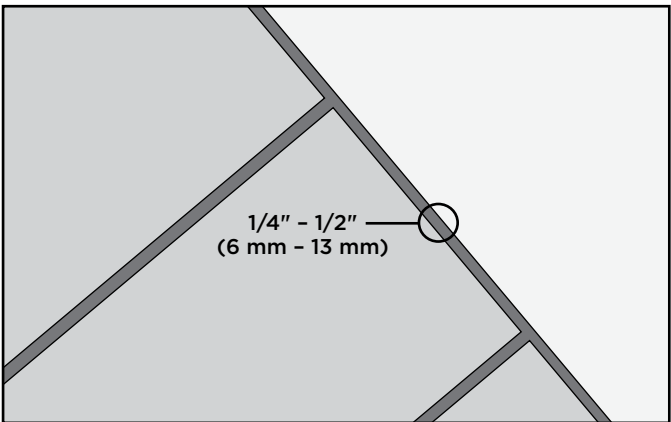
## Width-to-Width

The minimum required width-to-width gapping is 3/16" (5 mm). This is allowed for both hot and cold weather installations. For docks and heavily wooded areas, Trex recommends a 3/8" (10 mm) gap. No gapping should ever exceed 1/2" (13 mm).



## End-to-End/End-to-Width

Gap Trex decking end-to-end, based upon the temperature at installation. See chart at left. For fastening tips, see page 13.



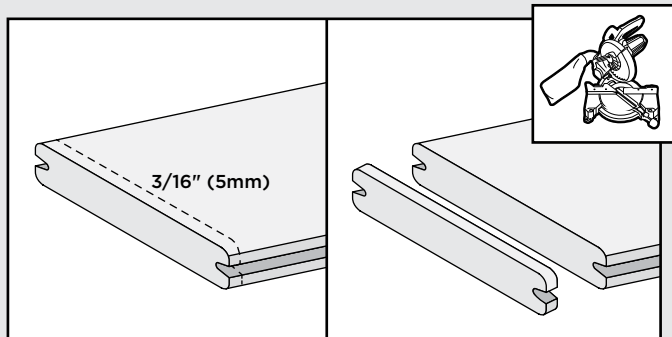
## Abutting Solid Objects

When decking is abutting a wall, you must also gap it 1/4"-1/2" (6-13 mm) depending on the temperature at installation. See chart at left.

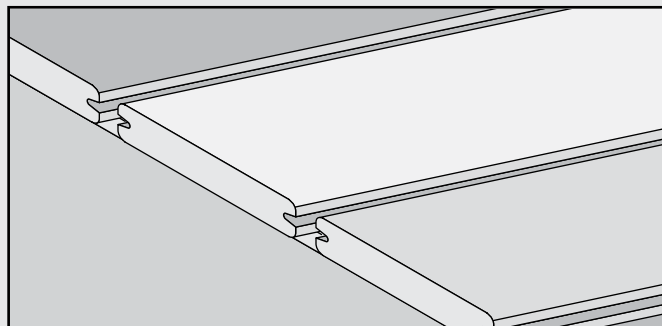


## Important Notes Before Installing Trex® Decking

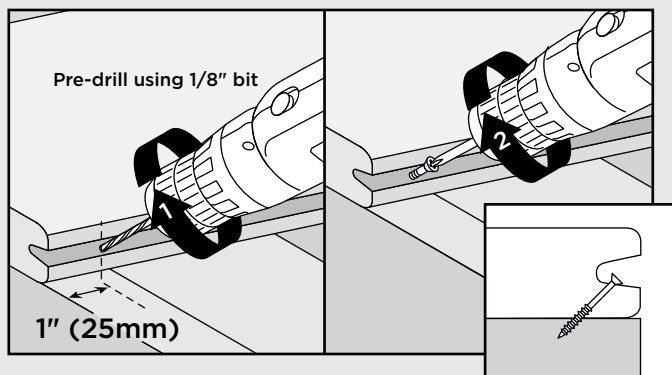
It is recommended to clean cut boards on both ends a minimum 3/16" (5mm).



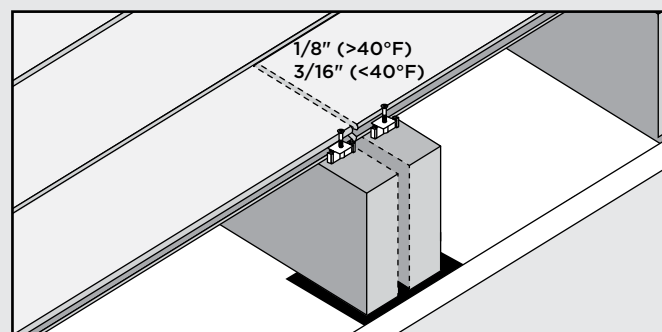
To ensure an appealing mix of color tones, mix and match all boards prior to installation.



If installing in localities prone to large temperature shifts within a 24-hour period, and installing Trex Universal Hidden Fasteners, predrill and toenail a screw (use same screw used in hidden fasteners) at an angle in groove at both ends (at least 1" (25mm) from board end) and center of each board.

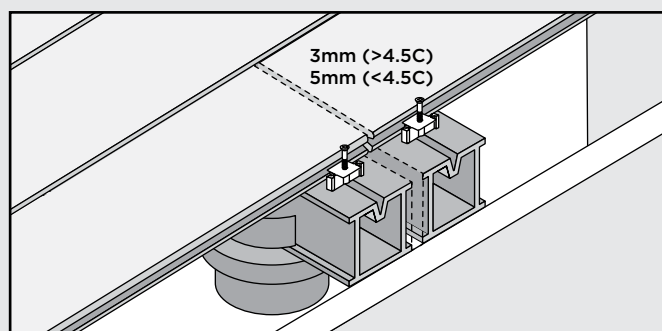


### Abutted Board Attachment Requirements



**NOTE:** Optional - Gap joist framing 1/8" - 1/4" to allow for water drainage.

### Metal Framing

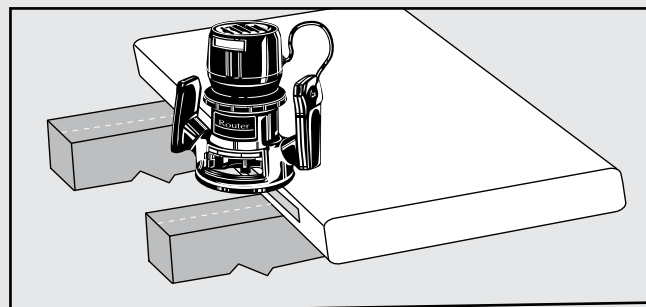


**NOTE:** Hidden Fasteners MUST be used at every joist.

**NOTE:** Use a drill (with adjustable clutch and torque) and adjust these settings if necessary to ensure screw is seated correctly in fastener. DO NOT countersink the screw head into the fastener. Screw head should be flush with the top of the fastener.

### Routing Square Edge Boards for Trex Hideaway Hidden Fasteners

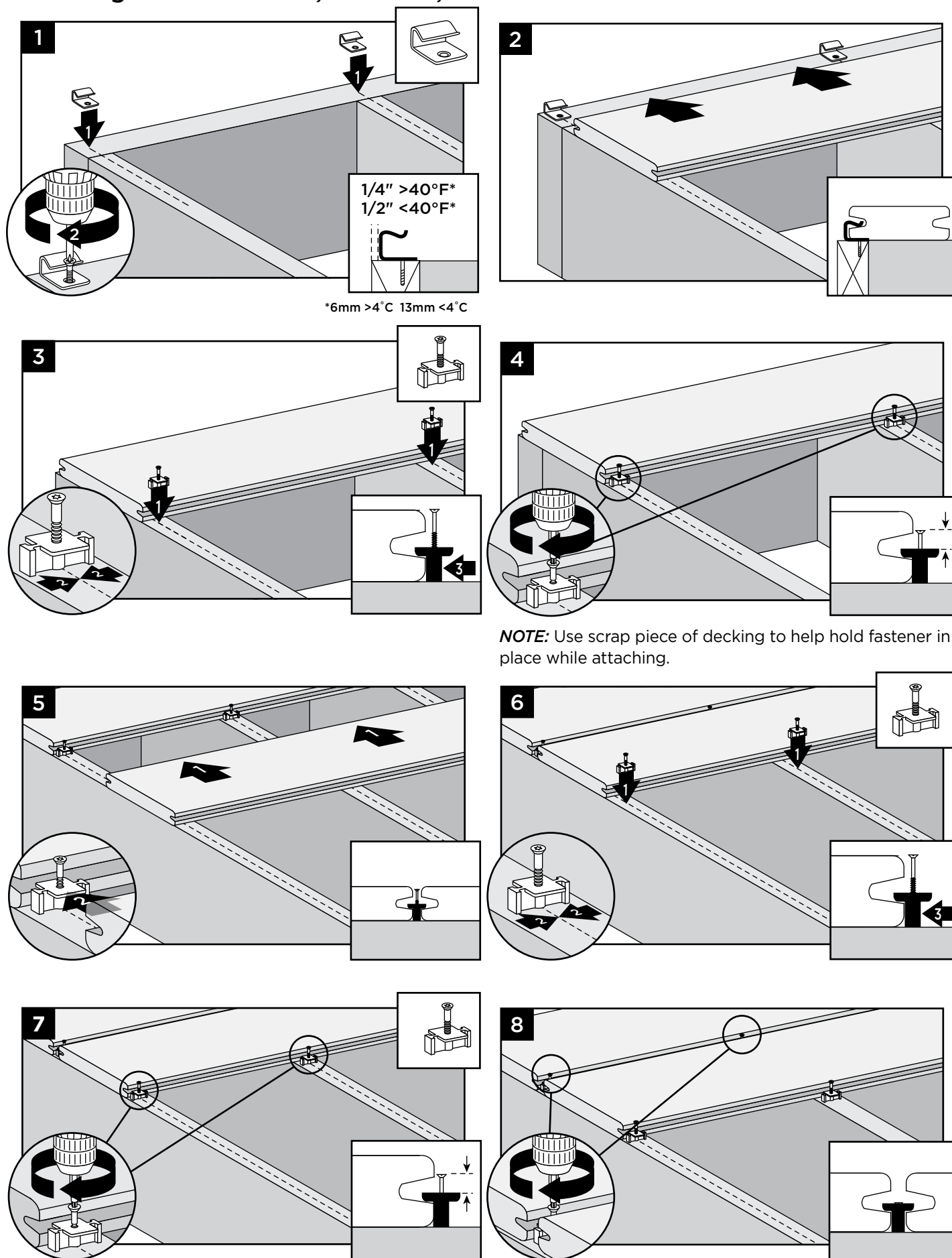
**NOTE:** All Trex square edge profiles, either 1x6 or 2x6, can be routed.



Using a Trex router bit with standard router:

1. Rout from bottom side of board.
2. Rout the entire length of the board, or at every intersection where board is over support joists.

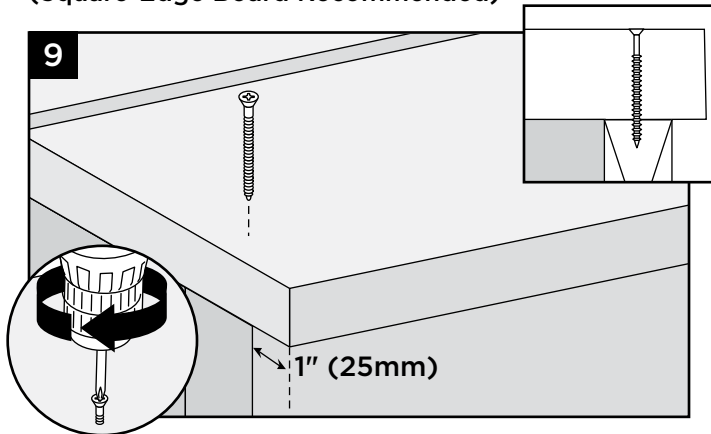
## Installing Trex Transcend®, Enhance®, Select® Deckboards





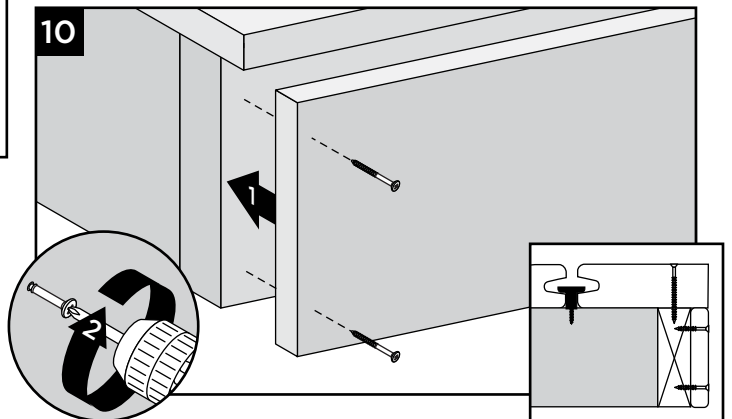
## Installing Trex Transcend®, Enhance®, Select® Deckboards/continued

### Installing Last Deck Board (Square-Edge Board Recommended)



Route one side of square-edge board to use with hidden fasteners.

**TIP:** Use a recommended hidden fastener screw and plug for last board installation.

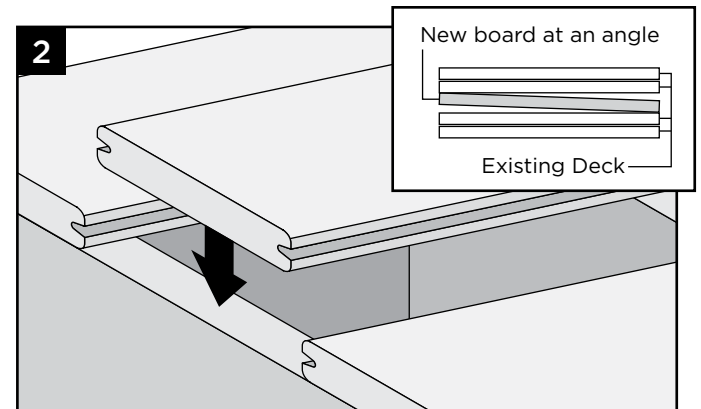
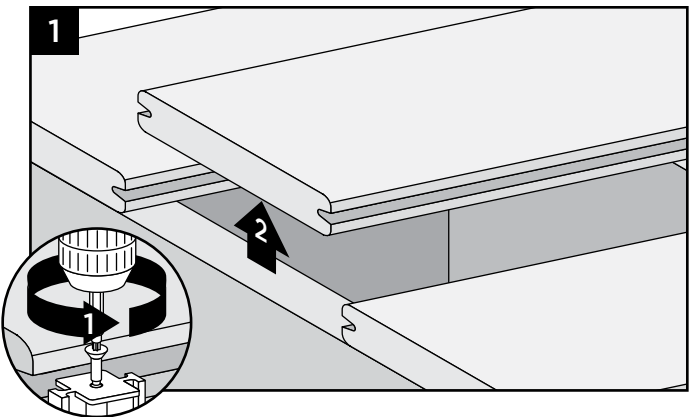


Fascia screws supplied by installer (1 x 8 fascia shown)

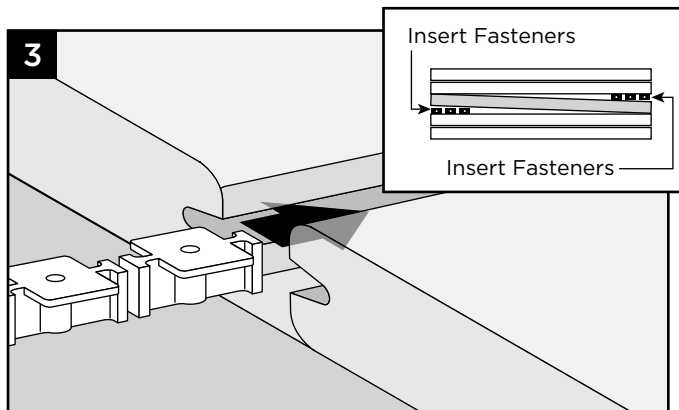
**NOTE:** Refer to page 12 for detailed fascia attachment instructions.

## Replacing Trex Boards (Transcend®, Enhance®, Select)

### Installed with Trex Hideaway® Universal Fasteners

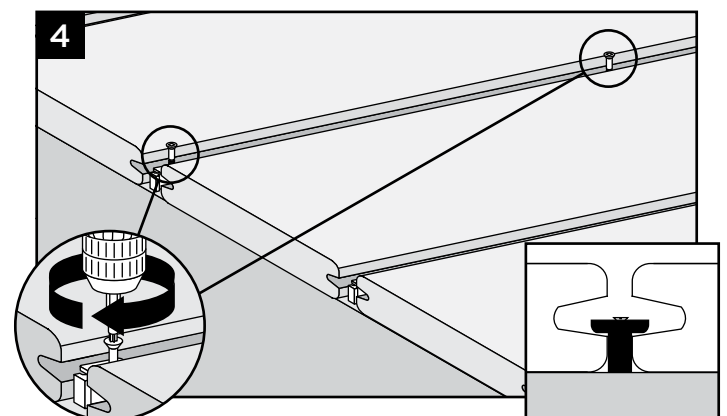


New board at an angle  
Existing Deck



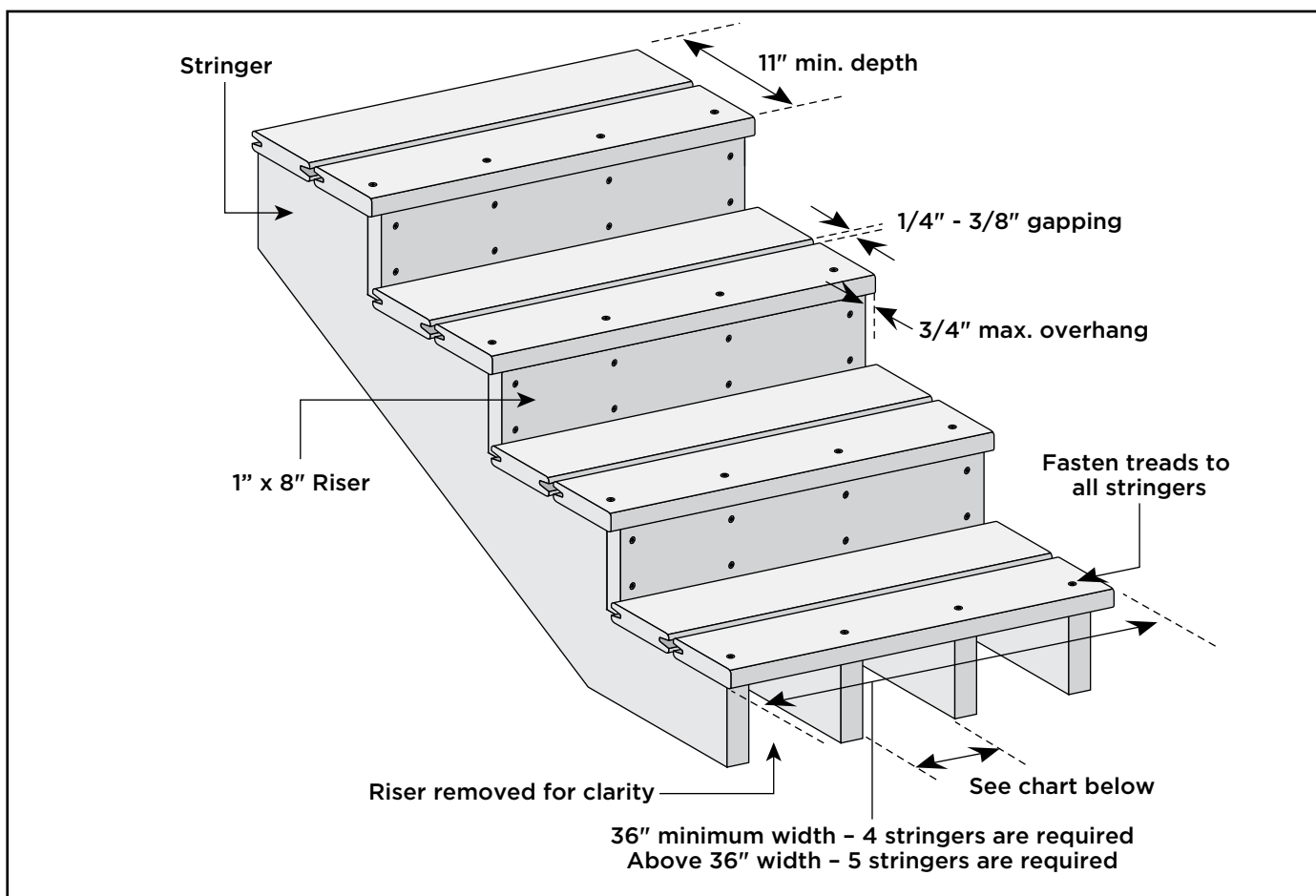
Insert Fasteners

Insert Fasteners



# Spanning Requirements for Trex® Stairs

*Note: English measurements are shown. Convert to metric measurements if necessary.*



## Stairs

### Stairway Detail

- » Stair treads built with Trex meet requirements of the major national building codes. Consult your local municipality for specific requirements.
- » Fasten stair treads continuously across at least four stringers.
- » See chart (at right) for center-to-center spacing of profiles.
- » Dress the sides of the stringers and risers with trim or Trex fascia for a finished look.
- » When installing risers, use two screws per every stringer.
- » Fascia fasteners can only be used if fascia boards are being used for risers. If deck boards are used, recommended composite deck screws must be used (glue is not required for this application).
- » Most model building codes require the stair treads to be constructed under the following requirements:
  - › Stairways must be at least 36" wide\*
  - › Stair treads must be at least 11" deep
- » Gapping between Trex boards on stair treads must be 1/4"-3/8".
- » The overhang of the stair tread is not to exceed 3/4".

### NOTES:

- » Trex rails meet all major building codes for use as a guardrail system. Local municipalities may require a graspable handrail on stairways. Check with your local building code official for local requirements. See Trex ADA Handrail System in the Trex product catalog.

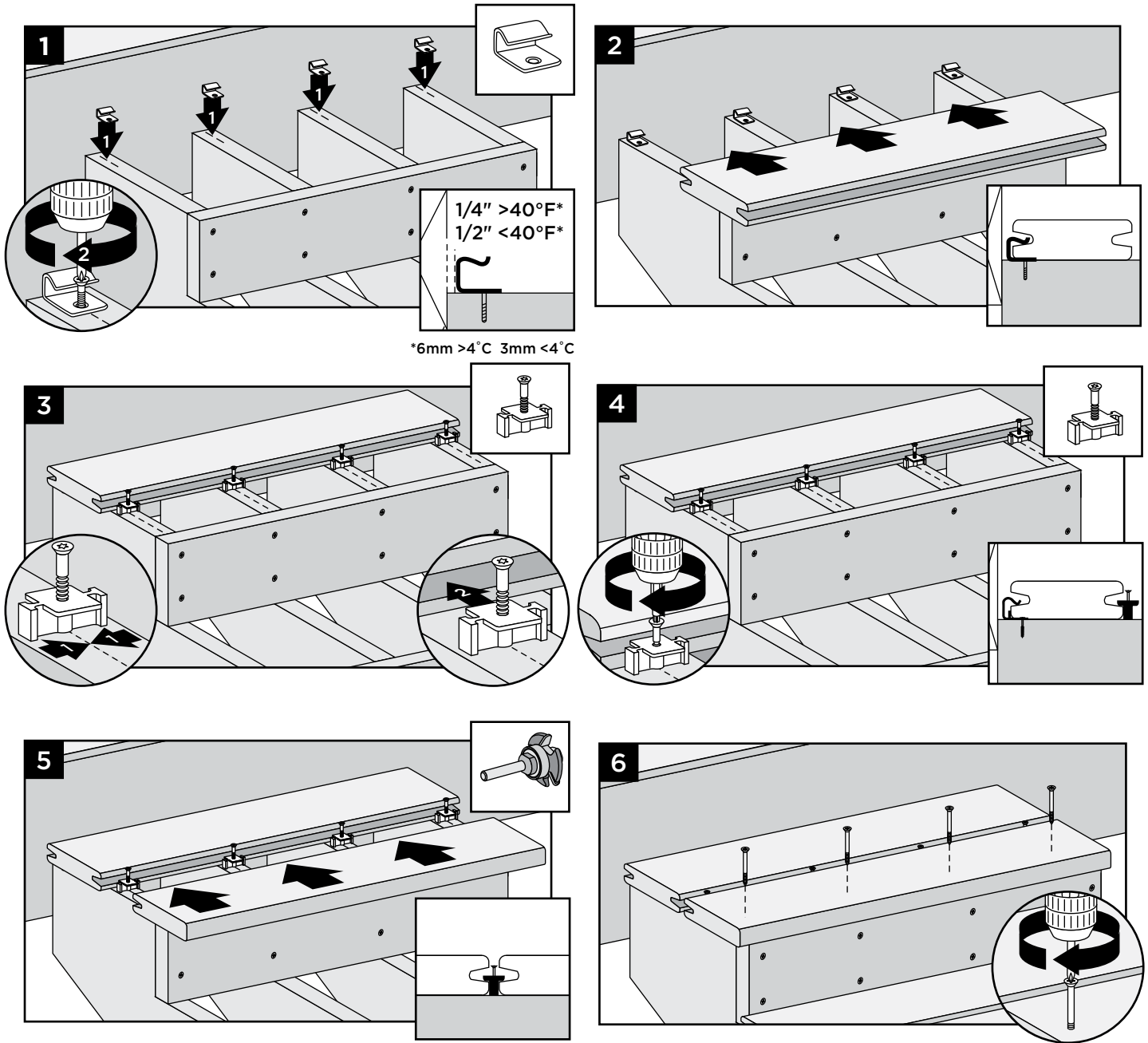
Maximum Spacing on Center of Stair Stringer	
Transcend 1" x 6"	12"
Select, Enhance (scalloped bottom), 1" x 6"	9"
Transcend & Select 2" x 6"	12"

*\*For railings that are installed directly over stair treads, the stair treads may need to be larger than 36" wide. Refer to local building code regulations for details prior to installing stairs and railings.*



## Installing Trex® Stair Treads Installed with Hidden Fasteners

**NOTE:** If using hidden fasteners, use square-edge, composite decking boards and manually route these on required sides to allow for use with hidden fasteners. In addition, if not using hidden fasteners, square-edge boards can all be used and face fastened using Trex recommended fasteners.



Route one side of board (last stair tread).



# WARRANTIES





## TREX TRANSCEND®, TREX ENHANCE®, TREX SELECT® AND TREX® UNIVERSAL FASCIA LIMITED FADE & STAIN WARRANTY

For the term set forth below, Trex Company, Inc. (hereinafter "Trex") warrants to the original end-user purchaser (the "Purchaser") that Trex Transcend® decking, porch or fascia, Trex Enhance® decking or fascia, Trex Select® decking or fascia or Trex Universal Fascia, as the case may be (the "Product") will perform, under normal use and service conditions, as follows:

**Term of Warranty:** The term of this warranty shall begin on the date of original purchase, and shall end (1) twenty-five (25) years thereafter for a residential application of the Product, and (2) ten (10) years thereafter for a commercial application of the Product. Notwithstanding the foregoing, the term of this warranty for Transcend Product used as outdoor cladding shall be twenty-five (25) years for both a residential application and a commercial application.

**Residential/Commercial Application:** For purposes of this warranty, a "residential application" shall refer to an installation of the Product on an individual residence, and a "commercial application" shall refer to any installation of the Product other than on an individual residence.

**Fade Resistance:** The Product shall not fade in color from light and weathering exposure as measured by color change of more than 5 Delta E (CIE) units.

The Product is designed to resist fading. No material is fade proof when exposed to years of UV exposure and the elements. The Product is designed to resist fading, and will not in any event fade by more than 5 Delta E (CIE) units.

**Stain Resistance:** The Product shall be resistant to permanent staining resulting from spills of food and beverage items including ketchup, mustard, salad oils, tea, wine, coffee, fruit punch, barbeque sauce, grease, sodas and other food and beverage related items that would typically be present on a residential deck, or mold and mildew naturally occurring in the environment, provided that such substances are removed from the Product with soap and water or mild household cleaners within one (1) week of exposure of the food or beverage to the surface or first appearance of the mold and mildew.

Notwithstanding the foregoing, Trex does not warrant that the Product is stain-proof, and does not warrant stain resistance resulting from spilled or otherwise applied food and beverage substances which are not properly cleaned as provided above within one (1) week of exposure. In addition, materials not covered in the stain resistant warranty include abrasive compounds of acidic or basic pH, paints or stains, strong solvents, metallic rust or other abnormal deck use items, and non-food and non-beverage substances, including but not limited to, biocides, fungicides, plant food, or bactericides. Mold and mildew can settle and grow on any outdoor surface, including this Product. You should periodically clean your deck to remove dirt and pollen that

can feed mold and mildew. This warranty does not cover mold and mildew which is not properly cleaned as provided above within one (1) week of first appearance.

**Standard Trex Company Limited Warranty:** This warranty is in addition to the standard Trex Company Limited Warranty that applies to all Trex products.

**Transferability:** With respect to a residential application, this warranty may be transferred one (1) time, within the five (5) year period beginning from the date of original purchase by the Purchaser, to a subsequent buyer of the property upon which the Trex products were originally installed. With respect to a commercial application, this warranty is freely transferable to subsequent buyers of the property upon which the Trex products were originally installed.

### EXCLUSIONS FROM WARRANTY COVERAGE:

**Exposure to Heat:** Direct or indirect contact with extreme heat sources (over 275 degrees) may cause fading and may damage the surface of the Product, and any effects of such exposure are expressly excluded from coverage under this warranty.

**Surface Damage:** Never use metal shovels or sharp-edged tools to remove snow and ice on the surface of the Product. If the surface of the Product is damaged or punctured, this warranty will be voided.

**Paint or Other Materials Applied to the Product:** If paint or other coating materials are applied to the Product, this warranty will be voided.

**Railing:** This warranty does not cover Trex Transcend®, Trex Enhance® or Trex Select® railing components.

**Other Exclusions:** This warranty shall not cover any condition attributable to: (1) improper installation of the Product and/or failure to abide by Trex's installation guidelines, including but not limited to improper gapping; (2) use of the Product beyond normal use or service conditions, or in an application not recommended by Trex's guidelines and local building codes; (3) movement, distortion, collapse or settling of the ground or the supporting structure on which the Product is installed; (4) any act of God (such as flooding, hurricane, earthquake, lightning, etc.); (5) improper handling, storage, abuse or neglect of the Product by Purchaser, the transferee or third parties; (6) any fading or staining not on the walking surface of the Product (i.e., the underside or the ends of the Product); or (7) ordinary wear and tear.

### Procedure for Making a Claim under this Warranty

In order to make a claim under this warranty, Purchaser must do the following:

1. If the Purchaser is making a claim relating to the warranty on stain resistance, Purchaser must do as follows:

**NOTE: Construction methods are always improving. Please refer to [www.trex.com](http://www.trex.com) for the most up-to-date installation requirements.**



# TREX TRANSCEND®, TREX ENHANCE®, TREX SELECT® AND TREX® UNIVERSAL FASCIA LIMITED FADE & STAIN WARRANTY/continued

(a) Purchaser must try to clean the affected area of the deck by using the cleaning procedures described above within one (1) week of exposure of the food or beverage to the Product or first appearance of the mold and mildew.

(b) If the affected area remains reasonably unsatisfactory after Purchaser has tried these cleaning procedures, then Purchaser must have the affected area of the deck professionally cleaned at Purchaser's expense.

(c) If the affected area remains reasonably unsatisfactory after the professional cleaning, Purchaser may make a claim under this warranty, provided that such claim is made within thirty (30) days after the professional cleaning.

2. To make a claim under this limited warranty, Purchaser, or the transferee, shall send to Trex, within the warranty period referred to above, a description and photographs of the affected area of the Product, proof of purchase, and if the claim relates to the warranty on stain resistance, proof of compliance with paragraph 1. above, to the following address:

Trex Company, Inc.  
Customer Relations  
160 Exeter Drive  
Winchester, VA 22603-8605

3. Upon confirmation by an authorized Trex representative of a valid claim hereunder, Trex's sole responsibility shall be, at its option, to either replace the affected item or refund the portion of the purchase price paid by Purchaser for such affected item (not including the cost of its initial installation). Replacement material will be provided that is as close as possible in color, design and quality as the replaced material, but Trex does not guarantee an exact match as colors and design may change.

4. If a valid warranty claim hereunder is made during years eleven (11) through twenty-five (25) after the original purchase for a residential application, recovery will be prorated. If Trex is providing replacement materials, it may elect to replace the percentage listed below of boards otherwise meeting the requirements for a claim, or if it is refunding the purchase price, it may elect to refund the percentage listed below of the purchase price of boards otherwise meeting the requirements for a claim.

YEAR OF WARRANTY CLAIM	PERCENTAGE RECOVERY
11	80%
12	80%
13	80%
14	60%
15	60%
16	60%
17	40%
18	40%
19	40%
20	20%
21	20%
22	20%
23	10%
24	10%
25	10%

**5. TO THE FULLEST EXTENT PERMITTED UNDER THE LAW, THIS WARRANTY SHALL NOT COVER AND TREX SHALL NOT BE RESPONSIBLE FOR COSTS AND EXPENSES INCURRED WITH RESPECT TO THE REMOVAL OF AFFECTED PRODUCT OR THE INSTALLATION OF REPLACEMENT MATERIALS, INCLUDING BUT NOT LIMITED TO LABOR AND FREIGHT.**

No person or entity is authorized by Trex to make and Trex shall not be bound by any statement or representation as to the quality or performance of Trex products other than as contained in this warranty. This warranty may not be altered or amended except in a written instrument signed by Trex and Purchaser.

**TO THE FULLEST EXTENT PERMITTED UNDER THE LAW, UNDER NO CIRCUMSTANCES WILL TREX BE LIABLE FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES, WHETHER SUCH DAMAGES ARE SOUGHT IN CONTRACT, IN TORT (INCLUDING BUT NOT LIMITED TO NEGLIGENCE AND STRICT LIABILITY) OR OTHERWISE, AND TREX'S LIABILITY FOR NON-PERSONAL INJURY CLAIMS WITH RESPECT TO PRODUCTS SHALL IN NO EVENT EXCEED THE REPLACEMENT OF SUCH PRODUCTS OR REFUND OF THE PURCHASE PRICE, AS DESCRIBED ABOVE.**

Some States or Provinces do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you. This warranty gives you specific legal rights, and you may also have other rights that vary from State to State or Province to Province.

Copyright © 2019 Trex Company, Inc.





## TREX® LIMITED WARRANTY

Trex Company, Inc. (hereinafter “Trex”) warrants to the original purchaser (“Purchaser”) that, for the period of time set forth in the following sentence, under normal use and service conditions, Trex’ product (the “Product”) shall be free from material defects in workmanship and materials, and shall not split, splinter, rot or suffer structural damage from termites or fungal decay. The term of such warranty shall be twenty-five (25) years from the date of original purchase for a residential application, and ten (10) years from the date of original purchase for a commercial application. If a defect occurs within the warranty period, Purchaser shall notify Trex in writing and, upon confirmation by an authorized Trex representative of the defect, Trex’s sole responsibility shall be, at its option, to either replace the defective Product or refund the portion of the purchase price paid by Purchaser for such defective Product (not including the cost of its initial installation).

For purposes of this warranty, a “residential application” shall refer to an installation of the Product on an individual residence, and a “commercial application” shall refer to any installation of the Product other than on an individual residence.

**Notwithstanding the foregoing, (a), the term of the warranty for the LED lights and housing for Trex DeckLighting™ shall be seven (7) years, the term of the warranty for the LED lights and housing for Trex LandscapeLighting™ shall be five (5) years, the term of the warranty for the dimmer, timer and transformer for both shall be three (3) years, and the term of the warranty for the motion controller for both shall be one (1) year, in each case provided that a Trex transformer is used (with no warranty on any components if a Trex transformer is not used), and any other parts or accessories shall not be warranted; (b) with respect to hardware for the Trex Surroundings® gate (gate frame, hinges and screws), the term of the warranty shall be five (5) years, (c) with respect to Trex Decorative Balusters, the term of the warranty covering the paint coating shall be ten (10) years, and shall be prorated in the following manner: 100% replacement for the first five (5) years; and 50% replacement for the next five (5) years, (d) the term of the warranty for Transcend Product used as outdoor cladding shall be twenty-five (25) years for both a residential application and a commercial application, and (e) this warranty shall not apply to Trex Elevations® steel deck framing, Trex Signature® aluminum railing and TrexTrim™ (which each have separate warranties).**

**TO THE FULLEST EXTENT PERMITTED UNDER THE LAW, THIS WARRANTY SHALL NOT COVER AND TREX SHALL NOT BE RESPONSIBLE FOR COSTS AND EXPENSES INCURRED WITH RESPECT TO THE REMOVAL OF DEFECTIVE PRODUCT OR THE INSTALLATION OF REPLACEMENT MATERIALS, INCLUDING BUT NOT LIMITED TO LABOR AND FREIGHT.**

With respect to a residential application, this warranty may be transferred one (1) time, within the five (5) year period beginning from the date of original purchase by the Purchaser, to a subsequent buyer of the property upon

which the Product was originally installed. With respect to a commercial application, this warranty is freely transferable to subsequent buyers of the property upon which the Product was originally installed.

To make a claim under this limited warranty, Purchaser, or the transferee, shall send to Trex, within the warranty period referred to above, a description of the claimed defect and proof of purchase, to the following address:

Trex Company, Inc.  
Customer Relations  
160 Exeter Drive  
Winchester, VA 22603-8605

Trex does not warrant against and is not responsible for any condition attributable to: (1) improper installation of Product and/or failure to abide by Trex’s installation guidelines, including but not limited to improper gapping; (2) use of Product beyond normal use and service conditions, or in an application not recommended by Trex’s guidelines and local building codes; (3) movement, distortion, collapse or settling of the ground or the supporting structure on which Product is installed; (4) any act of God (such as flooding, hurricane, earthquake, lightning, etc.), environmental condition (such as air pollution, mold, mildew, etc.), staining from foreign substances (such as dirt, grease, oil, etc.), or normal weathering (defined as exposure to sunlight, weather and atmosphere which will cause any colored surface to gradually fade, chalk, or accumulate dirt or stains); (5) variations or changes in color of Product; (6) improper handling, storage, abuse or neglect of Product by Purchaser, the transferee or third parties; or (7) ordinary wear and tear.

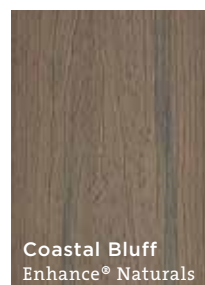
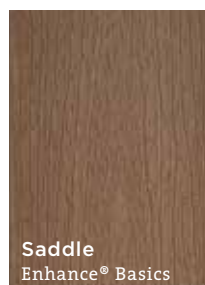
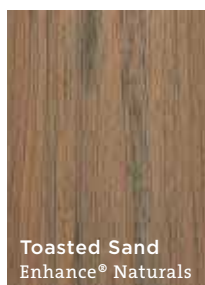
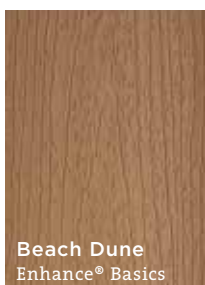
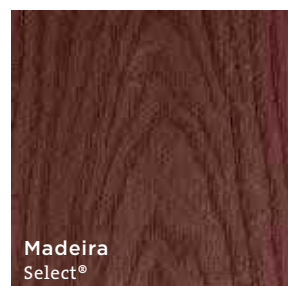
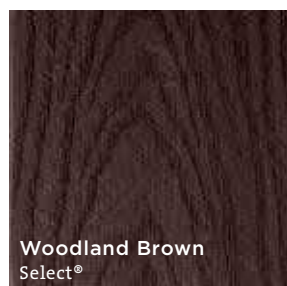
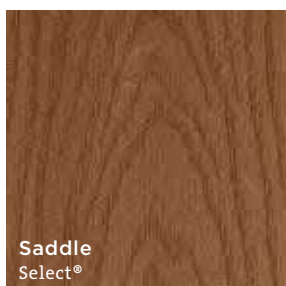
No person or entity is authorized by Trex to make and Trex shall not be bound by any statement or representation as to the quality or performance of Product other than as contained in this warranty. This warranty may not be altered or amended except in a written instrument signed by Trex and Purchaser.

**TO THE FULLEST EXTENT PERMITTED UNDER THE LAW, UNDER NO CIRCUMSTANCES WILL TREX BE LIABLE FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES, WHETHER SUCH DAMAGES ARE SOUGHT IN CONTRACT, IN TORT (INCLUDING BUT NOT LIMITED TO NEGLIGENCE AND STRICT LIABILITY) OR OTHERWISE, AND TREX’S LIABILITY FOR NON-PERSONAL INJURY CLAIMS WITH RESPECT TO DEFECTIVE PRODUCT SHALL IN NO EVENT EXCEED THE REPLACEMENT OF SUCH PRODUCT OR REFUND OF THE PURCHASE PRICE, AS DESCRIBED ABOVE.**

Some States or Provinces do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you. This warranty gives you specific legal rights, and you may also have other rights that vary from State to State or Province to Province.

Copyright © 2019 Trex Company, Inc.

# DECKING COLOR PALETTE





*front:* Transcend Tropicals in Havana Gold and Signature Rod Rail

*back:* Enhance Naturals in Toasted Sand and Signature Aluminum Railing with composite posts



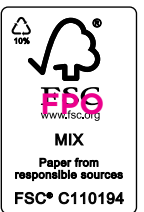
DECKING | RAILING | LIGHTING | FASCIA | KITCHENS | FURNITURE | PERGOLA | DRAINAGE



FIND US ON

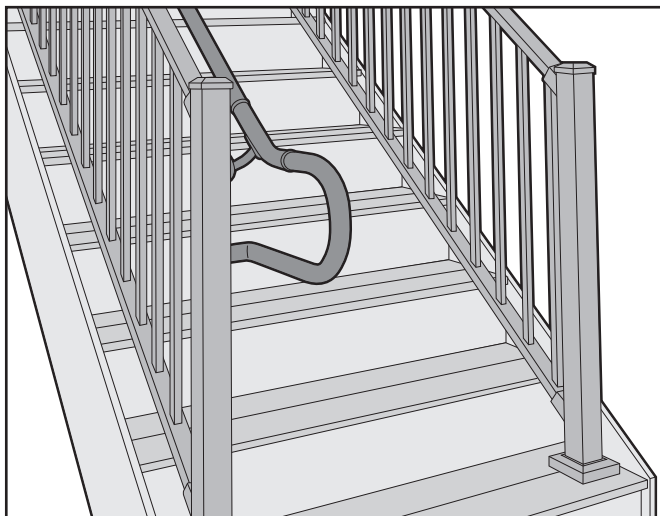


Visit **trex.com** or call **1-800-BUY-TREX**

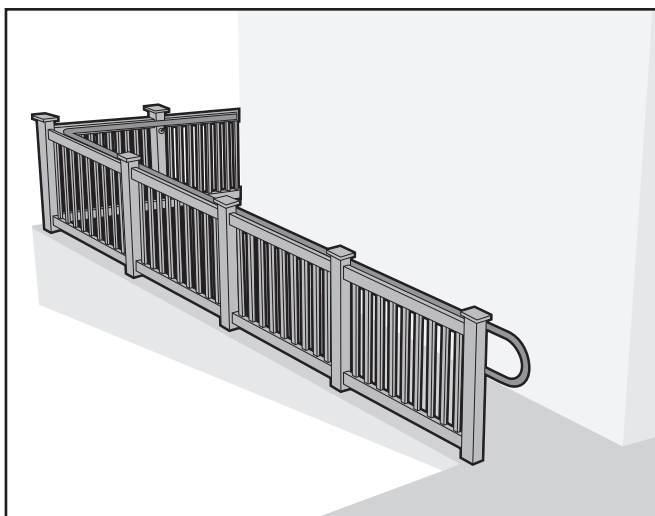


©2021 Trex Company, Inc. All rights reserved. Trex®, the Trex logo, Trex Transcend®, Trex Enhance®, Trex Select®, Trex Signature®, Trex Hideaway®, Trex® OutdoorLighting™, Trex Blade™, Trex® Outdoor Kitchens™, Trex® Spiral Stairs™, Trex® RainEscape®, Trex® Pergola™, TrexPro®, Trex® LatticeWorks™ and Trex® Cornhole™ are either federally registered trademarks, trademarks or trade dress of Trex Company, Inc., Winchester, Virginia or its licensees.

### STAIR APPLICATION

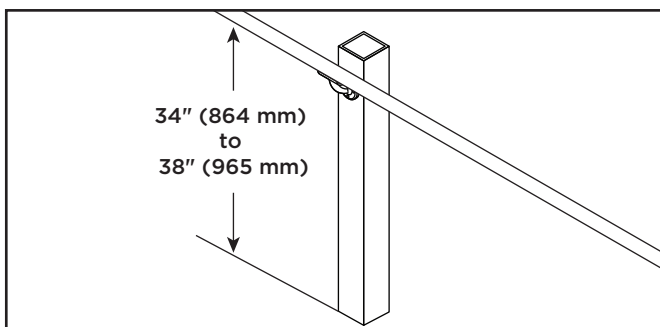


### RAMP APPLICATION



### ADA Handrail Guidelines

1. ADA handrails can be installed using various design applications such as those for stairs, ramps, and horizontal applications. Designs include options for straight and 90° wall returns, 90° corners, and adjustable angles. Choose which is best for your needs before installing. Refer to railing profile page for a more detailed parts list.



2. The handrail system top rail should be 34" (864 mm) to 38" (965 mm) above the surface. However, verifying height requirements with local building code officials before installing is important as codes vary in different areas.\*
3. Maintain a minimum clearance of 1-1/2" (38 mm) between the handrail and any obstructions above or behind the handrail.
4. The end loop return at all landings must extend 12" (305 mm) past the end of the ramp or stair application.\*
5. The slope of the handrail for the ramp should not exceed 1" (25 mm) rise over a 12" (305 mm) run.

6. The maximum recommended span between supports is 6' (1.83 m) on center. Thus, placement of posts is critical when installation of railing is being considered.\*
7. Rails are designed to have a tight fit into other connecting components. It is critical to line these up in the correct orientation BEFORE connecting parts together. If it is necessary to shift or move a component on a rail, wrap with a protective cloth to prevent scratching as you may need to use a wide-mouth wrench to correct this.
8. At any straight location where internal connector is used, it is **CRITICAL** to locate these as close to a wall mount as possible.
9. If using metal posts, pre-drill all locations for bracket attachment. (**ALWAYS** use a drill bit slightly **SMALLER** in diameter than the screw being used for attachment.)
10. All elbow components can be cut down to allow for tighter angles. Cut a maximum of 2" (51 mm) on each side if this is required.

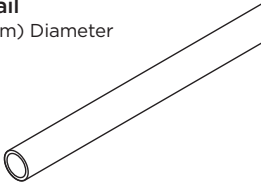
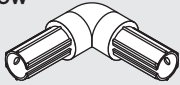
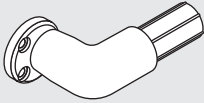

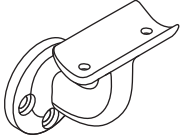

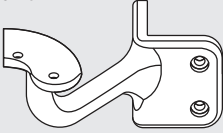
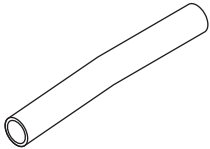
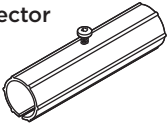

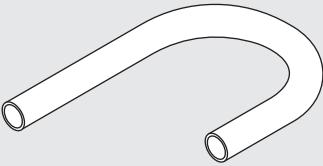
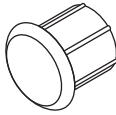
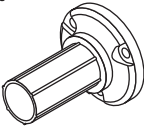
\*Refer to the American Disabilities Act for detailed information with regard to handrail requirements.

### SAFETY NOTES


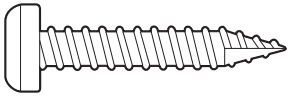

- » When cutting metal, ALWAYS wear proper safety eyewear (as well as any other proper safety wear).
- » Remove all burrs from cut ends before installation.
- » Use of a non-ferrous metal blade is recommended.

# TREX® ADA RAILING

## Installation Instructions

DESCRIPTION	COLOR	DESCRIPTION	COLOR
<b>ADA Handrail</b> 1.375" (34.9mm) Diameter 	BK, BZ, WT	<b>ADA Adjustable Elbow</b> 	BK, BZ, WT
<b>ADA Wall Return</b> (screws included) 	BK, BZ, WT	<b>ADA 90° Elbow*</b>  <small>*This component is designed for both inside corners and outside corners.</small>	BK, BZ, WT
<b>ADA Wall Mount</b> (screws included) 	BK, BZ, WT	<b>ADA 36°, 34°, and 31° Elbows</b> 	BK, BZ, WT
<b>ADA Corner Mount</b> (screws included) 	BK, BZ, WT	<b>ADA 5° Elbow</b> 	BK, BZ, WT
<b>ADA Internal Connector</b> 		<b>ADA Collar</b> 	BK, BZ, WT
<b>ADA Handrail Return</b> 	BK, BZ, WT	<b>ADA End Cap</b> 	BK, BZ, WT
<b>ADA Inline Bracket</b> (screws included) 	BK, BZ, WT		

## HARDWARE

RAIL TO BRACKET ATTACHMENT	
Short Metal Screw (#10 x 5/8" [16 mm])	
BRACKET TO METAL POST ATTACHMENT	
Long Metal Screw (#12 x 1-1/4" [32 mm])	
BRACKET TO WOOD POST/POST SLEEVE ATTACHMENT	
Wood Screw (#10 x 2" [51 mm])	

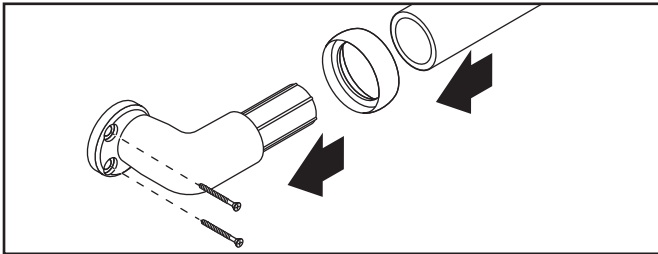
**NOTE:** If attaching brackets to 6x6 posts/postsleeves, use #10 x 2-1/2" (64 mm) wood screws (not included).

COLORS: BK Charcoal Black BZ Bronze WT White



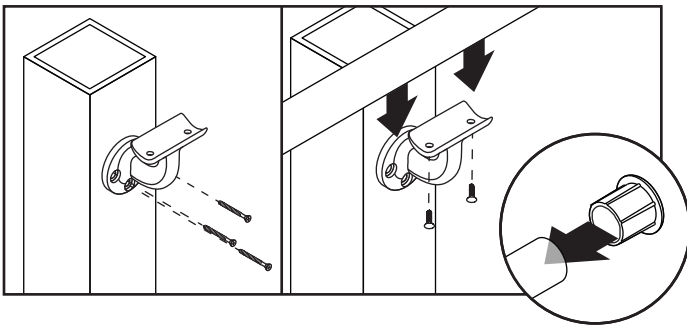
## HOW TO INSTALL TREX ALUMINUM ADA COMPLIANT HANDRAIL

### 90° Wall Return



1. If required, cut railing to proper length based on location of wall return(s) or attachment to other components.
2. If desired, collar ring can be used to hide seam of wall return to rail. Slide over rail **BEFORE** inserting rail into wall return.
3. Slide rail onto wall return until it is fully inserted and seam is hidden under collar (if collar is being used).
4. Attach wall return to post using specific hardware provided (see chart on previous page), **ENSURING** wall return is at proper angle of alignment to post. (Wall return is designed to have tight fit into rail, thus location of attachment is critical.)  
If using metal posts, pre-drill post prior to attachment of wall mount.

### Wall Mount



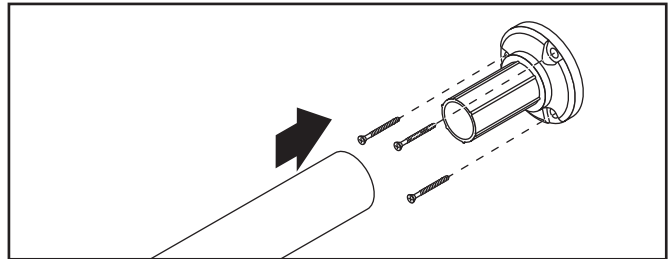
**NOTE:** Refer to Rail-to-Rail Connections section if connecting two or more rails together to make continuous straight run.

1. If required, cut railing to proper length based on location of wall mount(s) or attachment to other components.
2. Attach wall mount to post using specific hardware provided (see chart on previous page), **ENSURING** wall mount is at proper angle of alignment to angle of rail. If using metal posts, pre-drill post prior to attachment of wall mount.

**TIP:** To help with angled attachment, place one screw into bottom hole of bracket and pivot wall mount to position required.

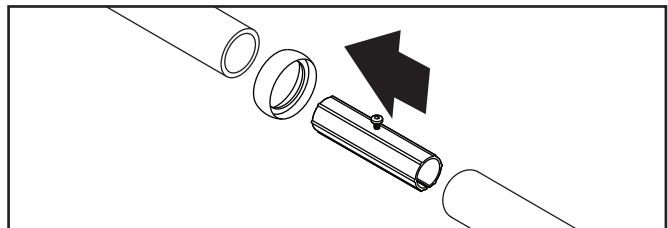
3. Attach rail to wall mount using specific hardware provided (see chart on previous page).
4. Attach end cap to railing.

### Inline Bracket



1. If required, cut railing to proper length based on location of inline bracket(s) or attachment to other components.
2. Attach inline bracket to post using specific hardware provided (see chart on previous page). If using metal posts, pre-drill post prior to attachment of inline bracket.
3. Slide rail onto inline bracket until it is fully inserted.

### Rail-to-Rail Connections/Internal Connector



**NOTE:** When rail-to-rail straight connections are used for longer spans, posts must be installed 6' OC max. In addition, a wall mount **MUST** be used at each seam of rail-to-rail connections as close to center of wall mount as possible. If collar is used, this can be offset slightly to allow for the collar to fit.

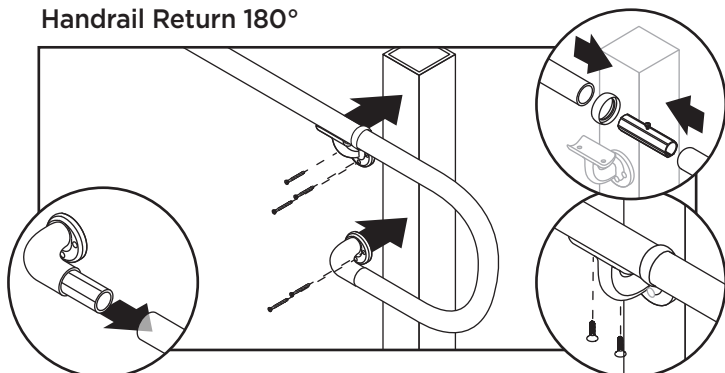
1. If required, cut railing to proper length.
2. If desired, collar ring can be used to hide seam between rails. Slide ring over rail **BEFORE** inserting rails into internal connector.
3. Slide internal connector into rail end until metal spacer screw is touching either end of rail or collar, if used.
4. Slide second rail over opposite end of internal connector, until it is touching metal spacer screw.
5. Remove metal spacer screw using #2 square-head screwdriver.
6. Push second rail further over internal connector until it fits in the collar (if used) or fits tightly against rail.
7. Attach wall mount to post per previous instructions.
8. Attach rail to wall mount per previous instructions.
9. Use end caps where required.

# TREX® ADA RAILING

## Installation Instructions

### HOW TO INSTALL TREX ALUMINUM ADA COMPLIANT HANDRAIL/CONTINUED

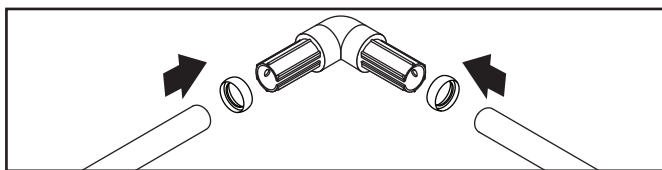
#### Handrail Return 180°



**NOTE:** Ramp application shown here. (Appropriate angle elbow also required for stair applications.)

1. If required, cut railing to proper length based on location of elbow used as well and other components being used.
2. If desired, collar ring can be used to hide seam of handrail return to rail or elbow being used. Slide this over rail **BEFORE** inserting rail into other component.
3. Ensure that all components are aligned to both wall mount on post as well as location of elbow on rail **BEFORE** attachment.
4. Slide internal connector into appropriate elbow being until metal spacer screw is touching either end of elbow or the collar, if this was used.
5. Attach wall return to lower end of handrail return (longer side), **ENSURING** wall return is at proper angle of alignment to post. (Wall return is designed to have tight fit into rail, thus location of attachment is critical.)
6. Slide opposite end of handrail return onto internal connector, until it is touching metal spacer screw.
7. Remove metal spacer screw using #2 square-head screwdriver.
8. Push handrail return further over internal connector until it fits in the collar (if used) or fits tightly against elbow.
9. Attach wall return to post per previous instructions.
10. Attach rail to wall mount per previous instructions.
11. Use end caps where required.

#### Adjustable Elbow



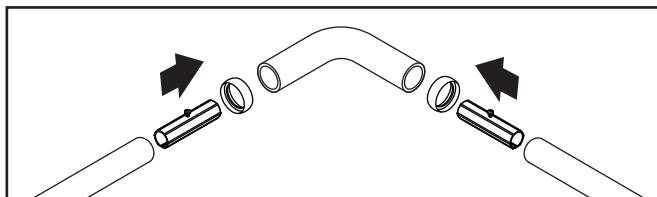
**NOTE:** This elbow is designed to take the guesswork out of which elbow to buy based on stair angle.

1. If required, cut railing to proper length based on location of elbows and other components being used.
2. If desired, collar ring can be used to hide seam of adjustable elbow to rail. Slide over rail **BEFORE** inserting rail into adjustable elbow.
3. Slide adjustable elbow into rail and ensure this fits tightly against rail.

4

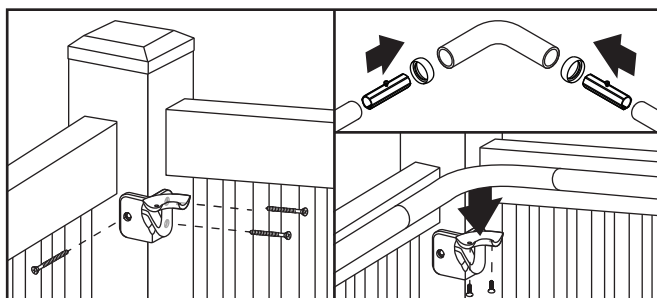
4. Determine angle required and tighten set screw on adjustable elbow. (It is recommended to do this before final attachment in order to access the set screw more easily.)
5. Slide other connector of adjustable elbow into the 180° handrail return or transition rail.

#### Elbows (90°, 36°, 34°, 31°, 5°)



1. If required, cut railing to proper length based on location of elbows and other components being used.
2. If desired, collar ring can be used to hide seam of elbow to rail. Slide over rail **BEFORE** inserting rail into elbow.
3. Slide internal connector into rail end until metal spacer screw is touching either end of rail or the collar, if this was used.
4. Slide appropriate angled elbow onto opposite end of internal connector, until it is touching metal spacer screw.
5. Remove metal spacer screw using #2 square head screwdriver.
6. Push elbow further over internal connector until it fits in the collar (if used) or fits tightly against rail.
7. Attach wall mount to post per previous instructions.
8. Attach rail to wall mount per previous instructions.

#### Corner Mount



1. Pre-drill metal post and install corner post to metal post using specific hardware provided (see chart on previous page).
2. If desired, collar ring can be used to hide seam of elbow to rail. Slide this over rail **BEFORE** inserting rail into elbow.
3. Slide internal connector into rail end until metal spacer screw is touching either end of rail or the collar, if this was used.
4. Slide appropriate angled elbow onto opposite end of internal connector, until this is touching metal spacer screw.
5. Remove metal spacer screw using #2 square-head screwdriver.
6. Push elbow further over internal connector until this fits in the collar (if used) or fits tightly against rail.
7. Install elbow to corner mount using specific hardware provided.