



Trails and Greenways Committee

Monday, June 14, 2021 at 6:00 pm

1. CALL TO ORDER, PRAYER AND PLEDGE
2. ROLL CALL
3. ADDITIONS/DELETIONS/CHANGES
4. CONSENT AGENDA
 - a. Approval of Minutes of 05/13/2021

Exhibit: Agenda Report Number 4a

Attachments:

- **Agenda Report Number 4a(1)** (Agenda_Report_Number_4a_1_.pdf)
- **Agenda Report Number 4a(2)** (Agenda_Report_Number_4a_2_.pdf)

5. PUBLIC COMMENTS
6. ACTION ITEMS : 0
7. DISCUSSION ITEMS:

- a. Trail, Kiosk and Firebreak Conditions
- b. Eagles Nest

Exhibit: Agenda Report Number 7b(1) & 7b(2)

Attachments:

- **Agenda Report Number 7b(1)** (Agenda_Report_Number_7b_1_.pdf)
- **Agenda Report Number 7b(2)** (Agenda_Report_Number_7b_2_.pdf)

- c. Malabar Road crossing at Marie Street

Exhibit: Agenda Report Number 7c(1) & 7c(2)

Attachments:

- **Agenda Report Number 7c(1)** (Agenda_Report_Number_7c_1_.pdf)
- **Agenda Report Number 7c(2)** (Agenda_Report_Number_7c_2_.pdf)

- d. Trail Signage Request

Agenda Report Number 7d(1) & 7d(2)

Attachments:

- **Agenda Report Number 7d(1)** (Agenda_Report_Number_7d_1_.pdf)
- **Agenda Report Number 7d(2)** (Agenda_Report_Number_7d_2_.pdf)

e. Briar Creek Underpass Project

Exhibit: Agenda Report Number e(1) & e(2)

Attachments:

- **Agenda Report Number 7e(1)** (Agenda_Report_Number_7e_1_.pdf)
- **Agenda Report Number 7e(2)** (Agenda_Report_Number_7e_2_.pdf)

f. Next Field Event - TBD

8. OLD/NEW BUSINESS

a. Board Member Comments

b. Next Scheduled Meeting Date - 7/12/2021

9. ADJOURNMENT

Contact: Richard W. Kohler (rkohler@townofmalabar.org 321-727-7764) | Agenda published on
06/09/2021 at 1:10 PM

TOWN OF MALABAR

TRAILS AND GREENWAYS COMMITTEE MEETING

AGENDA ITEM NO: 4.a
Meeting Date: June 14, 2021

Prepared By: Richard W. Kohler, Deputy Clerk/Treasurer

SUBJECT: Approval of Minutes of 05/13/2021

BACKGROUND/HISTORY:

- a. Trails and Greenways Committee Meeting Minutes of 05/13/2021

ATTACHMENTS:

- a. Trails and Greenways Committee Meeting Minutes of 05/13/2021

ACTION OPTIONS:

Request approval

MALABAR TRAILS AND GREENWAYS COMMITTEE REGULAR MEETING
May 13th, 2021 6:05 PM

This meeting of the Malabar Trails and Greenways Committee was held at Town Hall at 2725 Malabar Road.

1. CALL TO ORDER, PRAYER AND PLEDGE:

Meeting called to order at 6:00 P.M. Prayer and Pledge led by Vice-Chair Hann.

2. ROLL CALL:

CHAIR:	DREW THOMPSON-Via Phone
VICE-CHAIR:	MURRAY HANN
BOARD MEMBERS:	ANNELIE HARVEY
	BOB WILBUR
	BARBARA CAMERON
BOARD SECRETARY:	RICHARD KOHLER

3. ADDITIONS/DELETIONS/CHANGES

4. CONSENT AGENDA

4.a. Regular Trails and Greenways Committee Mtg Minutes of 04/12/2021
Committee Members Cameron/Harvey move to accept the minutes of 04/12/2021 as presented.
All Ayes: Motion Carried 5-0 (all ayes).

5. PUBLIC COMMENTS: NONE

6. ACTION ITEMS: NONE

7. DISCUSSION

a. Trail, Kiosk, and Firebreak Conditions

Vice-Chair Hann states that the trails are all in great shape. He did some repair work at the Kayak Launch. Overall, it looks good and is routing water as intended. There are no trees down. When it gets dry, we could use some more green mesh to sure up the dry sand. The former land manager of Turkey Creek Sanctuary, Ollie Johnson, requested a meeting with the BMBA to request they do not add a second trail on the GFT-TCT connector trail. The second trail would create a directional loop to avoid two-way paths. We will revisit the topic with the current land manager soon. At the GFT the BMBA is working to improve the EMT access. Soon we will need to replace the Kiosk maps. Chair Thompson asks for the standard size for the kiosks, and to create a schedule for map replacement. Vice-Chair Hann suggest we update them every other year. The trail markings are also aging and will need to be replaced soon.

b. Eagles Nest Trailhead

Chair Thompson requested the video be shown.

Member Wilbur updated the Committee on the work done by Flawless.

Secretary Kohler informed the Committee about the origins of the lot, being donated to the Town of Malabar in the 1980's by a developer named Jordan Davidson.

Vice-Chair Hann asks what the goals are for the 5/19 workday?

Chair Thompson suggest they walk the property and survey the area and meet at 4:30 PM.

CM Cameron asks if we have the lumber for the fence?

Chair Thompson states that yes, we have already purchased it.

c. Briar Creek Underpass Project

Vice-Chair Hann gave an overview of the new proposal. There is still some work that needs to be completed. He will also go out to do some more precise measurements. Chair Thompson spoke about using anchors or taps to support the platform. CM Wilbur spoke about different materials that may provide a more stable and cost-efficient solution.

d. Paved Al Tuttle Connector from North Corey Road

No update

e. Next Field Event – 05/19/2021 (E.N.T.)

9. OLD/NEW BUSINESS

a. Old Business:

b. New Business:

Member Wilbur suggest we address the trail crossing of Malabar Rd at Marie Street. VC

Hann suggests ITM Morrell request FDOT include Trail Crossings.

- Next Regular Meeting- June 14th, 2021

10. ADJOURN

There being no further business to discuss

MOTION Cameron/Wilbur . Vote: All Ayes. The meeting adjourned 7:13 PM.

BY:

Drew Thompson Chair

06/14/2021

Richard W. Kohler, Board Secretary

Date Approved: as presented/corrected:

TOWN OF MALABAR

TRAILS AND GREENWAYS COMMITTEE MEETING

AGENDA ITEM NO: 7.b
Meeting Date: June 14, 2021

Prepared By: Richard W. Kohler, Deputy Clerk/Treasurer

SUBJECT: Eagles Nest Trailhead

BACKGROUND/HISTORY:

- a. On May 19th, the Trails and Greenways Committee had a work event at the Eagles Nest Trailhead. Committee Members walked the recently cleared areas of the property and discussed potential opportunities. One such opportunity which was discussed was the possibility of getting State funds and assistance in removing a patch of Brazilian Pepper Plants in the Southwestern corner of the lot.

ATTACHMENTS:

- a. E-mail chain between Secretary Kohler, Chair Thompson, and assorted State employees.

ACTION OPTIONS:

Review

Re: Malabar Potential Project

Richard Kohler <rkohler@townofmalabar.org>

Wed 5/26/2021 2:12 PM

To: Smith, Jacqueline <Jackie.Smith@MyFWC.com>; Kunzer, John <john.kunzer@myfwc.com>

Cc: drew.thompson@prosolent.com <drew.thompson@prosolent.com>

For clarification, the area circled includes all three parcels shown in the survey. The Northern third of that area is the proposed trailhead, and the invasive Brazilian Pepper trees are on the trailhead's would be southern border. The only section of tree removal we will be requesting is the patch of Brazilian Peppers along the southern boundary of Parcel 1.

Richard W. Kohler

Town of Malabar

Deputy Clerk/Treasurer

321-727-7764 Ext. 109

RKohler@townofmalabar.org

From: Richard Kohler <rkohler@townofmalabar.org>

Sent: Wednesday, May 26, 2021 2:04 PM

To: Smith, Jacqueline <Jackie.Smith@MyFWC.com>; Kunzer, John <John.Kunzer@MyFWC.com>

Cc: drew.thompson@prosolent.com <drew.thompson@prosolent.com>

Subject: Re: Malabar Potential Project

Yes Ma'am it is. The northern third of that lot is the parcel intended for use as a Trailhead.

Richard W. Kohler

Town of Malabar

Deputy Clerk/Treasurer

321-727-7764 Ext. 109

RKohler@townofmalabar.org

From: Smith, Jacqueline <Jackie.Smith@MyFWC.com>

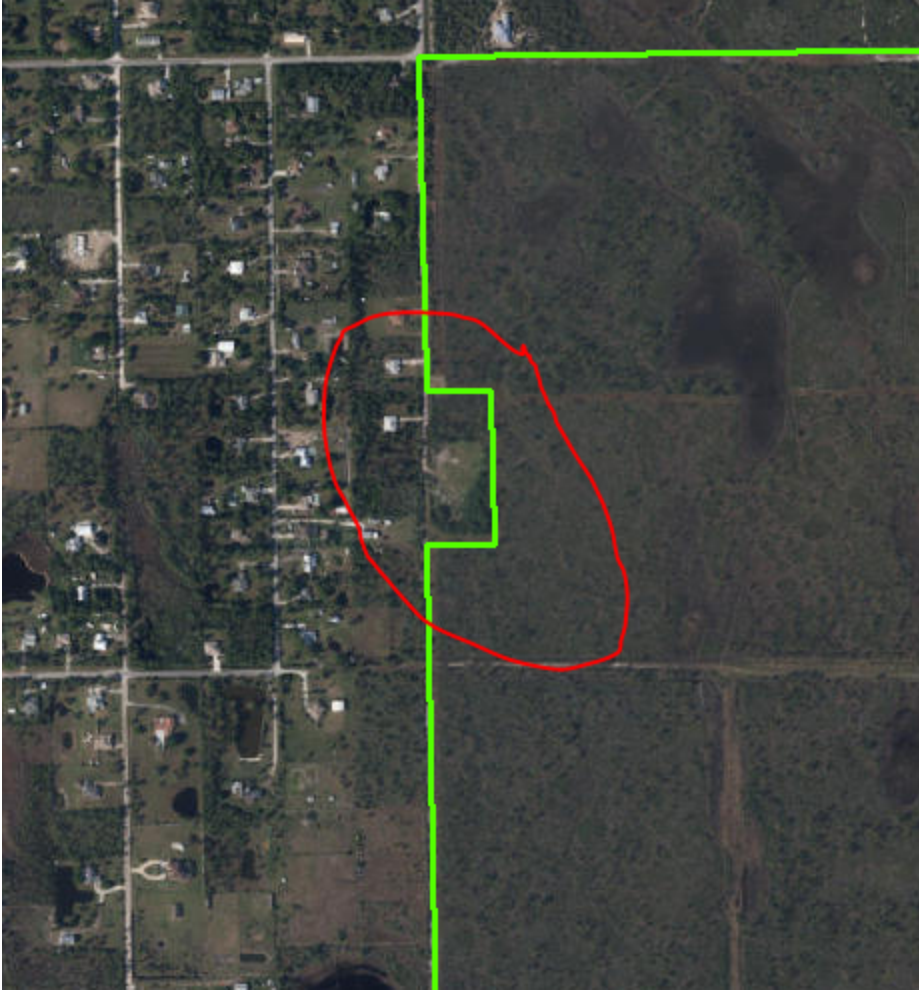
Sent: Wednesday, May 26, 2021 1:54 PM

To: Richard Kohler <rkohler@townofmalabar.org>; Kunzer, John <John.Kunzer@MyFWC.com>

Cc: drew.thompson@prosolent.com <drew.thompson@prosolent.com>

Subject: RE: Malabar Potential Project

Please see map below....is that the site circled in RED



Jackie Smith

In moments of joy, all of us wish we possessed a tail we could wag!

From: Richard Kohler <rkohler@townofmalabar.org>

Sent: Wednesday, May 26, 2021 12:38 PM

To: Smith, Jacqueline <Jackie.Smith@MyFWC.com>; Kunzer, John <John.Kunzer@MyFWC.com>

Cc: drew.thompson@prosolent.com

Subject: Re: Malabar Potential Project

[EXTERNAL SENDER] Use Caution opening links or attachments

Mrs. Smith,

I have attached the most recent survey of the property in question. There are 3 vacant parcels shown on the survey, and the proposed Trailhead would be located on Parcel 1. The land to the North and East of this property is also Public Conservation Land, the Brevard County Environmentally Endangered Land's (EELs) Jordan Scrub Sanctuary. I appreciate your assistance on this project.

Richard W. Kohler
Town of Malabar
Deputy Clerk/Treasurer
321-727-7764 Ext. 109

RKohler@townofmalabar.org

From: Smith, Jacqueline <Jackie.Smith@MyFWC.com>

Sent: Wednesday, May 26, 2021 12:03 PM

To: Kunzer, John <John.Kunzer@MyFWC.com>; Richard Kohler <rkohler@townofmalabar.org>

Cc: drew.thompson@prosolent.com <drew.thompson@prosolent.com>

Subject: RE: Malabar Potential Project

Mr. Kohler....can you please send me a map showing the boundaries of your property so I can make sure it is FNAI public conservation land.

Jackie Smith

In moments of joy, all of us wish we possessed a tail we could wag!

From: Kunzer, John <John.Kunzer@MyFWC.com>
Sent: Wednesday, May 26, 2021 12:00 PM
To: Richard Kohler <rkohler@townofmalabar.org>
Cc: drew.thompson@prosolent.com; Smith, Jacqueline <Jackie.Smith@MyFWC.com>
Subject: RE: Malabar Potential Project

Greetings Mr. Kohler,

All of our Working Groups have just wrapped up submissions and ranking for the coming Fiscal Year. The next opportunity would be sometime in April 2022.

The Trailhead property in question would have to be designated Public Conservation Land, and owned by a Government Agency/Entity. Then the parcel would have to be vetted as such by the Florida Natural Areas Inventory (FNAI). Your working group Liaison would then inform you of when the new proposal submission cycle begins—typically sometime in March. You'd also have to become registered in FWC User Management/TIERS, for which I would be your contact.

I've copied Jackie Smith, who is the Regional Coordinator for your Working Group, and Kris Campbell, who is the Liaison for your Working Group.

Thank you,
John

John Kunzer
Biological Scientist IV
Ph : 850-617-9420
Cell: 850-519-0257

From: Richard Kohler <rkohler@townofmalabar.org>
Sent: Tuesday, May 25, 2021 2:15 PM
To: Kunzer, John <John.Kunzer@MyFWC.com>
Cc: drew.thompson@prosolent.com
Subject: Malabar Potential Project

[EXTERNAL SENDER] Use Caution opening links or attachments

Mr. Kunzer,

My name is Rich Kohler and I am the Deputy Clerk/Treasurer for the Town of Malabar. I am also the secretary of Malabar's Trails and Greenways Committee. That Committee is currently working on a new Trailhead that would access Public Conservation Lands, the Jordan Scrub Sanctuary. The Trails and Greenways Committee has determined that the next step in building the Trailhead is the removal of the Brazilian Pepper plants in the area. What steps would we need to take to be considered for the Mosquito Coast Working Group funds? Thank you for any assistance in this project.

Richard W. Kohler
Town of Malabar

Deputy Clerk/Treasurer

321-727-7764 Ext. 109

RKohler@townofmalabar.org

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TOWN OF MALABAR

TRAILS AND GREENWAYS COMMITTEE MEETING

AGENDA ITEM NO: 7.C
Meeting Date: June 14, 2021

Prepared By: Richard W. Kohler, Deputy Clerk/Treasurer

SUBJECT: Malabar Road Crossing at Marie Street

BACKGROUND/HISTORY:

- a. During the New Business section of the May 13th's Trails and Greenways Committee Meeting, Committee Member Wilbur requested action to improve the crossing of Malabar Road at Marie Street. Chair Thompson offered to draft a letter to Council/FDOT requesting assistance in improving the trail crossing.

ATTACHMENTS:

- a. Draft letter from Chair Thompson.

ACTION OPTIONS:

Review

The DOT trail crossing of Malabar Road at the Marie Street intersection in Town of Malabar, is now in need of DOT intervention to assure the safety of its equestrian, pedestrian (hiker), and bicycle users. This location is a critical point along the 22-mile South Brevard Linear Trail as it is simply where trail users encounter the most traffic. With some private wooded properties leading to Malabar Road, it effectively divides the greenway areas of the Malabar Scrub Sanctuary East (to the north) and the Jordan Scrub Sanctuary (to the south).

Recent rezoning and development plans of the property located at the northwest corner of the intersection is expected to result in increased activity and modification to existing swales on both sides of Malabar Road. The 22-mile South Brevard Linear Trail runs along the west side of Marie Street. While the crossing of Malabar Road has been designated by FL DOT as a trail crossing, it may be a while before a more user-accommodating trail crossing materializes from future Malabar Road plans. Funding for such proposed changes in SR 514 design is not even budgeted at this time. Action is needed now.

A short distance north of the trail crossing is the Sand Hill Trailhead, located at 1400 Marie Street. The trailhead was designed for all users but has special accommodations for horses. The need for the trail crossing was recognized and subsequently designated by DOT because Malabar Road is heavily travelled at times and horses need to feel safe when crossing a major road.

Accordingly, Town of Malabar now seeks additional DOT safety features for the trail crossing. Modification of swales to accommodate additional drainage needs due to property development is expected to radically reduce the square footage of the effective trail area to the north and south of the intersection – potentially reducing the area that horses could wait for traffic to stop prior to safely crossing Malabar Road.

Town of Malabar respectfully requests DOT assistance to address this safety issue at our trail crossing.

TOWN OF MALABAR

TRAILS AND GREENWAYS COMMITTEE MEETING

AGENDA ITEM NO: 7.d
Meeting Date: June 14, 2021

Prepared By: Richard W. Kohler, Deputy Clerk/Treasurer

SUBJECT: Trail Signage Request

BACKGROUND/HISTORY:

- a. On May 27th, Town Staff received a complaint of Facebook pertaining to actions regarding actions encountered on the Trails. ITM Morrell requested the Trails and Greenways Committee review the complaint.

ATTACHMENTS:

- a. Complaint from Mrs. Sherrie Lynn Gohn

ACTION OPTIONS:

Review



Request #: 425520808

Request Date: 05/27/21 10:39

Type of Request: Parks

Task Type:

Project Description:

Internal Notes: Referral to T&G Board

Complainant Name: Sherrie Lynn Gohn

Complainant Phone: Facebook Post

Complainant Email: @

Location of Problem: Trials

Description of Problem: Horses v Bikes - Signage Requested

Applicant Name:

Applicant Address:

Property Address:

City, State, Zip:

Phone Number:

: not used-records attached, no option for delete

BTR Home:

Status: Work in Progress

Internal Notes

Sherrie Lynn Gohn

05/27/2021 We are BEYOND blessed to have these trails in our backyard!!! I ride my bike 3-4 times a week on the trails and am always THRILLED to see horses back there! It breaks my heart to hear how rude and inconsiderate bikers are to the people riding their horses! Please put more signs up telling the bikers they do not OWN these trails! They are to be enjoyed by everyone! If anything is annoying its the people that take dogs back there off leashes!!! That is not supposed to be allowed! Thank you for giving us these beautiful trails!!! Please hurry with the horse park at the south end (that what I heard they were doing)!

05/27/2021

T&G Consideration to R. Kohler (Board Secretary)

TOWN OF MALABAR

TRAILS AND GREENWAYS COMMITTEE MEETING

AGENDA ITEM NO: 7.e
Meeting Date: June 14, 2021

Prepared By: Richard W. Kohler, Deputy Clerk/Treasurer

SUBJECT: Briar Creek Underpass Project

BACKGROUND/HISTORY:

- a. During the May 13th T&GC Meeting, Committee Member Wilbur suggested the committee explore alternate options for securing the underpass to the concrete apron.

ATTACHMENTS:

- a. E-mail exchange between Vice-Chair Hann and Engineer Jeff Kendall regarding alternate anchors
- b. Product specifications and reviews of alternate anchors.

ACTION OPTIONS:

Review

FW: Trail Underpass

Murray.Hann@L3Harris.com <Murray.Hann@L3Harris.com>

Tue 6/8/2021 2:39 PM

To: Richard Kohler <rkohler@townofmalabar.org>

Cc: drew.thompson@prosolent.com <drew.thompson@prosolent.com>

📎 2 attachments (759 KB)

TC underpass.pdf; EPB-Post-Bases-Load-Table.pdf;

Hi Richard,

How are you doing?

I am working on a new concept for the TC Underpass based on some good comments from Bob Wilbur. For our next meeting – I just wanted to have available the .pdf attached above “EPB-Post-Bases...”.

Thanks,

Mur

From: Hann, Murray (US)

Sent: Wednesday, May 26, 2021 11:01 AM

To: Jeff Kendall <jeffkendall@bellsouth.net>; jeff.kendall@kimley-horn.com

Cc: Glenn Dunam (g_dunnam@msn.com) <g_dunnam@msn.com>; Craig Smith <craigs@blueplanetenv.com>; mblinne <mblinne@hotmail.com>; McCart, Monty <MontyMcCart@allstate.com>; jason.stroble@gmail.com

Subject: Trail Underpass

Hi Jeff,

Say, on the Turkey Creek Trail Underpass concept (attached) – I was discussing the idea with a friend and he thought there must be a better way to connect to the bridge skirt than my concept for using wood to interface the poles to the concrete bridge skirt.

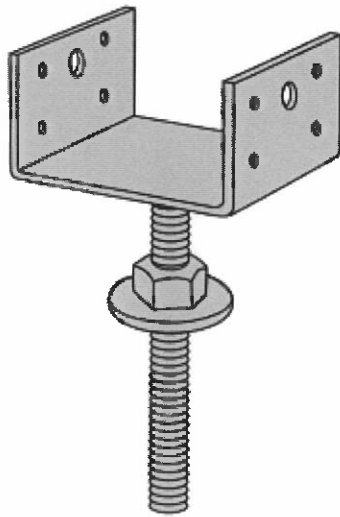
His point is that this type of bridge skirt is curving around (like, will not be exactly at the same angle at the bottom pole and top pole), and that filling in below our current foundations with cement would be hard and probably not result in a very structural base, and also it was a lot of wood. He basically recommended that we look for a pole base made to interface to concrete – and in our case sloping concrete.

I found this item – The Simpson Strong Tie EPB44PHDG. They are galvanized steel, and would just require a single 7/8” hole drilled in the concrete base and the threaded rod is bonded in using epoxy adhesive also sold by that company. From what I read, it is very reliable. I have found a couple different angle washers for below the nut/washer shown. These bases are galvanized steel, and cost about 20\$ each. I think this would work well for us. We would set up a laser on a tripod, broadcast a line, and measure on that line for where we needed to drill holes for the upper and lower line.

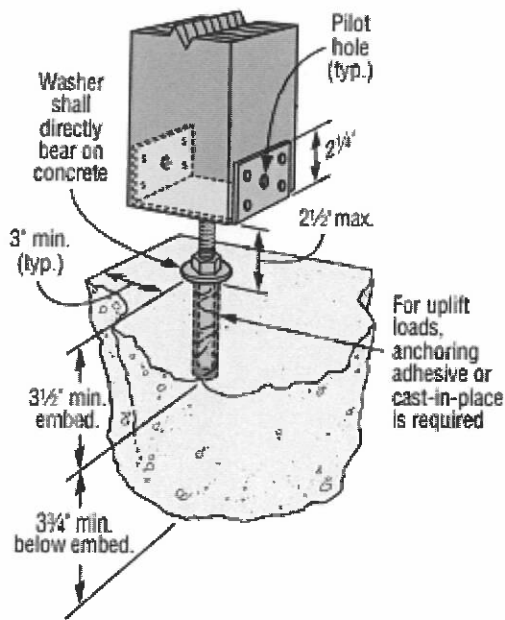
I wanted to ask what you thought of this concept – and if you liked the idea could you re-do your design to utilize this type of base. A couple of other changes if you don't mind. The stringers under the decking are currently shown as 4 stringers – meaning, there is a stringer on the inside and outside of every pole – this requires a joint at each pole (meaning the stringer only overlaps the pole by 1.75” and meets the other stringer in the center). That means we have to drill two holes for both of those on each side of that center joint – which is hard and only leaves about 1” of spacing to the edges (and we know the edges of the PT boards rot first). If you agree, I think we should go inside/outside with every other stringer, to allow for about 6” of overlap per side, so that we can bolt through the pole with just 2 bolts right in the center (rather than 4), and not be near the edge of any of the boards. Does that sound OK? This also better facilitates if the foundation bridge skirt is curving in the view from above, to adapt bay to bay angle.

I hope this is our next big project – no big hurry, but I always like to keep making progress.

Thanks,
Mur



EPB44PHDG



Typical EPB44PHDG

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EPB

Elevated Post Base

Material: EPB44A — 14 gauge; others — 12 gauge base plate, 1 1/8" OD x 8" pipe

Finish: EPB44A — Galvanized; all others — Simpson Strong-Tie gray paint (may be ordered HDG); see Corrosion Information, pp. 13–15

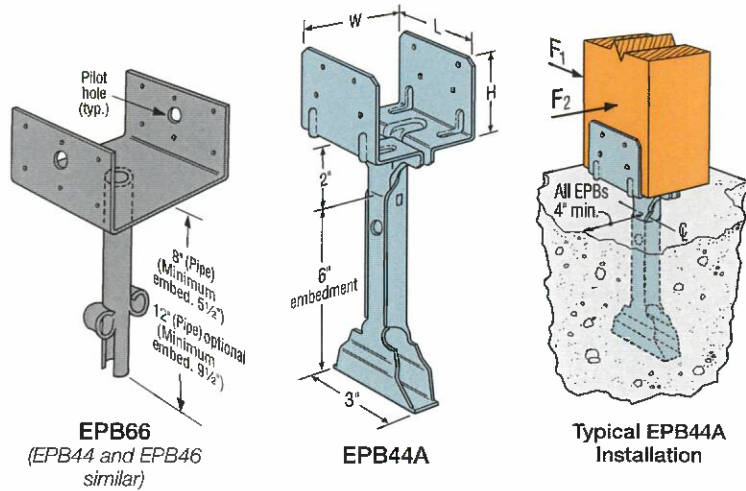
Installation:

- Use all specified fasteners; see General Notes
- Allows 1" to 2 1/2" clearance above concrete, 2" for EPB44A
- Post bases do not provide adequate resistance to prevent members from rotating about the base and therefore are not recommended for non-top-supported installations (such as fences or unbraced carports)

Options:

- 12" pipe available for EPB44, 46, 66; specify "-12" after model number

Codes: See p. 12 for Code Reference Key Chart



Bases and Caps

These products are available with additional corrosion protection. For more information, see p. 15.

SD Many of these products are approved for installation with Strong-Drive® SD Connector screws. See pp. 335–337 for more information.

Model No.	Dimensions (in.)			Nails	Allowable Loads (160)			F ₁	F ₂	Code Ref.
	W	L	H		Uncracked	Cracked	Download			
					Uplift	Uplift				
Wind and Seismic Design Category A&B										
EPB44A	3 3/16	3	2 3/8	(8) 0.162 x 3 1/2	1,075	755	2,670	695	795	IBC, FL, LA
EPB44	3 3/16	3 1/4	2 5/16	(8) 0.162 x 3 1/2	995	695	3,465	850	965	
EPB46	5 1/2	3 3/16	3	(12) 0.162 x 3 1/2	995	695	3,465	850	965	
EPB66	5 1/2	5 1/2	3	(12) 0.162 x 3 1/2	995	695	3,465	850	965	
Seismic Design Category C–F										
EPB44A	3 3/16	3	2 3/8	(8) 0.162 x 3 1/2	940	660	2,670	695	795	IBC, FL, LA
EPB44	3 3/16	3 1/4	2 5/16	(8) 0.162 x 3 1/2	870	605	3,465	850	965	
EPB46	5 1/2	3 3/16	3	(12) 0.162 x 3 1/2	870	605	3,465	850	965	
EPB66	5 1/2	5 1/2	3	(12) 0.162 x 3 1/2	870	605	3,465	850	965	

1. Loads may not be increased for duration of load.
2. Concrete shall have a minimum compressive strength of $f'_c = 2,500$ psi.
3. Multiply Seismic and Wind ASD load values by 1.4 or 1.67 respectively to obtain LRFD capacities.
4. In accordance with IBC, Section 1613.1, detached one- and two-family dwellings in Seismic Design Category (SDC) C may use "Wind and SDC A&B" allowable loads.
5. Downloads shall be reduced where limited by capacity of the post.
6. Designer is responsible for concrete design.
7. For full loads, the distance to the nearest concrete edge is 4" minimum from the EPB center line.
8. Structural composite lumber columns have sides that show either the wide face or the edges of the lumber strands/veneers known as the narrow face. Values in the tables reflect installation into the wide face. See technical bulletin T-C-SCLCLM at strongtie.com for load reductions resulting from narrow-face installations.
9. **Fasteners:** Nail dimensions in the table are listed diameter by length. See pp. 21–22 for fastener information.

C-C-2019 © 2019 SIMPSON STRONG-TIE COMPANY, INC.

EPB44PHDG

Elevated Post Base

EPB44PHDG can be used both for pier block and cast-in-place installation for 4x4 posts.

Material: 12-gauge base; threaded rod support 3/4" x 6", nut and washer are shipped assembled

Finish: HDG; see Corrosion Information, pp. 13–15

Installation:

• **Secured with Anchoring Adhesive:**

Drill a 3/8"-diameter hole 4" deep minimum and fill the hole halfway with anchoring adhesive (per installation instructions). Insert the EPB44PHDG and adjust to the desired height. The threaded rod shall be embedded a minimum of 3 1/2". Minimum sidecover is 3" from the center of the threaded rod.

• Go to strongtie.com for additional information on hole cleaning procedures and cure time for SET-3G® and AT-XP® anchoring adhesives.

• **Supported by a Nut:**

Drill a 1"-diameter hole 3 1/2" deep minimum. Insert the EPB44PHDG and adjust to the desired height.

• **Cast-in-Place:**

Embedded end to have a nut and bearing plate with a minimum embedment of 4" from top of concrete to the top of plate.

• Minimum sidecover is 3" from the center of the threaded rod.

• Fully engage at least three threads in the base.

• Post bases do not provide adequate resistance to prevent members from rotating about the base and therefore are not recommended for non-top-supported installations (such as fences or unbraced carports).

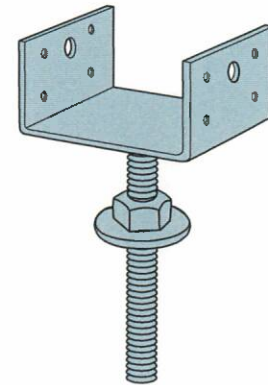
Codes: See p. 12 for Code Reference Key Chart

These products are available with additional corrosion protection. For more information, see p. 15.

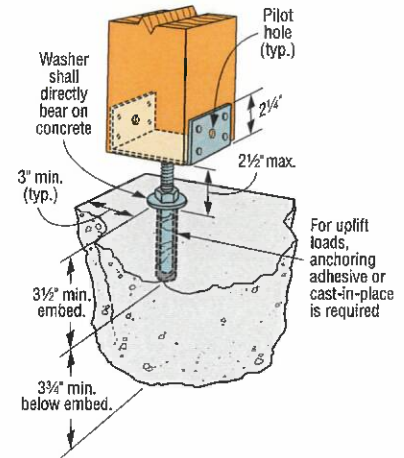
SD Many of these products are approved for installation with Strong-Drive® SD Connector screws. See pp. 335–337 for more information.

Model No.	Nails (in.)	Anchor Bolt	Allowable Loads (DF/SP)				Code Ref.
			Download (100)		Uplift (160)		
			Adhesive or Cast-in-Place	Support by a Nut	SET-3G®	AT-XP®	
EPB44PHDG	(8) 0.162 x 3 1/2	3/4	3,625	760	1,265	985	—

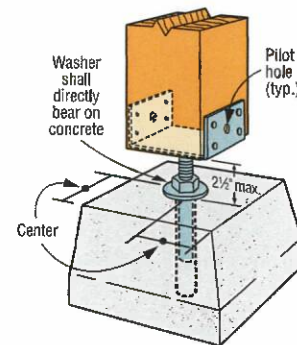
1. Loads may not be increased for duration of load.
2. Uplift loads require the threaded rod to be attached to cured concrete with SET-3G® or AT-XP® anchoring adhesive. Cast-in-place installations must have a nut and bearing plate embedded in concrete. Uplift loads do not apply when installed to a pier block.
3. Designer is responsible for concrete design.
4. Downloads shall be reduced where limited by capacity of the post.
5. Structural composite lumber columns have sides that show either the wide face or the edges of the lumber strands/veneers. For SCL columns, the fasteners for these products should always be installed in the wide face. See technical bulletin T-C-SCLCLM at strongtie.com for load reductions resulting from narrow-face installations.
6. Adhesive anchor design assumptions:
 - (a) Uncracked dry concrete
 - (b) Anchors not for use in SDC C-F where load combinations include earthquake load
 - (c) Temperature range: Maximum short term temperature = 176°F, Maximum long term temperature = 110°F
 - (d) Periodic special inspection assumed per code report
 - (e) Minimum concrete strength of 2,500 psi
7. **Fasteners:** Nail dimensions in the table are listed diameter by length. See pp. 21–22 for fastener information.



EPB44PHDG



Typical EPB44PHDG Installed with SET-3G or AT-XP Anchoring Adhesive



Typical EPB44PHDG Pier Block Installation (supported by a nut)

