From:

Suzanne Cooler

Sent:

Monday, November 14, 2022 11:19 AM

To:

Shannon Bazemore

**Subject:** 

FW: Hutchinson Island bulkhead project

From: Giordano, John <giordano.j@tandh.com> Sent: Thursday, October 27, 2022 2:23 PM

To: Suzanne Cooler <svcooler@chathamcounty.org>; guoming.lin@terracon.com; Hayes, Jen <hayes.j@tandh.com>

Subject: RE: Hutchinson Island bulkhead project

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Suzanne,

Here is our response. We've acknowledged that this is just our opinion and that at this point it is almost impossible to fully understand the exact cause. We know that the wall failed due to the failure of the helicals, but based on what we have observed we believe those failures were actually a result of the poor soil conditions which Guoming recognized. I've tried to address those technical items, while keeping a fairly high level response.

While it may be impossible to pinpoint the exact conditions or series of events that lead to the failure of the bulkhead, excavation has confirmed that, over time, voids had developed behind the wall, due in large part to the notoriously poor soil conditions on Hutchinson Island. We believe that the earthquake, which occurred the morning of the failure, may have caused movement of material into these voids, inducing a domino effect of soils moving toward the wall, thus creating an additional and imbalanced load on the helical anchors and the wall itself. We believe it was during this increased loading that some of the helical anchors failed, compounding the problem by allowing the wall to move out and thereby creating additional room behind the wall for further soil movement.

Thanks, John

JOHN GIORDANO, PE | Principal/Project Manager

THOMAS & HUTTON - TRANSFORMING COMMUNITIES FOR 75 YEARS!

p 912-721-4054 m 912-704-7985

e giordano.j@tandh.com

a 50 Park of Commerce Way | Savannah, GA 31405

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From: Suzanne Cooler < <a href="mailto:svcooler@chathamcounty.org">svcooler@chathamcounty.org</a>

Sent: Friday, October 21, 2022 1:10 PM

To: Giordano, John <giordano.j@tandh.com>; guoming.lin@terracon.com; Hayes, Jen <hayes.j@tandh.com>

Subject: FW: Hutchinson Island bulkhead project

Can you all help me with a response to this inquiry? I would like some technical language to explain that it was several factors and not one specific cause of the failure. Thoughts?

From: Abbigail Murphy <a href="mailto:amurphy@chathamcounty.org">amurphy@chathamcounty.org</a>

Sent: Thursday, October 20, 2022 9:36 AM

To: Suzanne Cooler < <a href="mailto:svcooler@chathamcounty.org">subject: FW: Hutchinson Island bulkhead project</a>

Hey Suzanne,

Eric Curl wants to know if the cause of the Hutchinson Island bulkhead failure has been determined.

From: eric.curl@savannahagenda.com <eric.curl@savannahagenda.com>

Sent: Thursday, October 20, 2022 9:00 AM

**To:** Catherine Glasby < cnglasby@chathamcounty.org> **Cc:** Abbigail Murphy < amurphy@chathamcounty.org>

Subject: Hutchinson Island bulkhead project

CAUTION: This email originated from outside of Chatham County. Do not click links or open attachments unless you recognize the sender and know the content is safe.

Good morning Catherine,

I see that a change order for the Hutchinson Island bulkhead stabilization project is on Friday's agenda. Has it been determined what caused the failure in the first place?

Thanks,

Eric

Eric Curl
Publisher/Writer
Savannahagenda.com
Eric.curl@savannahagenda.com

From:

Hayes, Jen <hayes.j@tandh.com>

Sent:

Monday, November 7, 2022 4:30 PM

To:

Suzanne Cooler

Cc:

Giordano, John; Pinto, Eric

Subject:

FW: [Caution - External Email] Slip 2 - drawing review conf call

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Suzanne – are you available on the 15th or morning of the 16th for this review with the City?

JEN HAYES, PE, LEED AP | Structural Department Manager THOMAS & HUTTON

p 843-725-5292 m 843-696-9643

e hayes.j@tandh.com

a 682 Johnnie Dodds Blvd.; Suite 100 | Mt. Pleasant, SC 29464

<u>vCard | Website | LinkedIn | Facebook | Twitter | Instagram</u>

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From: Julie McLean < JMcLean@Savannahga.Gov>

Sent: Monday, November 7, 2022 2:29 PM

To: Hayes, Jen <hayes.j@tandh.com>; Peter Ghilarducci <PGhilarducci@Savannahga.Gov>

Cc: Suzanne Cooler <svcooler@chathamcounty.org>; Giordano, John <giordano.j@tandh.com>; Pinto, Eric

<pinto.j@tandh.com>; John Maher (john.maher@ticus.com) <john.maher@ticus.com>; Heath Lloyd

<hlloyd@Savannahga.Gov>

Subject: RE: [Caution - External Email] Slip 2 - drawing review conf call

Good afternoon Jen,

Peter and I just checked our calendars, and we are currently open any time on Nov. 15 or the morning of Nov. 16. Please let us know if there is a time that works for you on those days. Thanks.

Julie

Julie K. McLean, PE

City of Savannah

**Development Services Senior Director and City Engineer** 

20 Interchange Drive, Savannah, GA 31415

P.O. Box 1027, Savannah, GA 31402

Office: 912.651.6530 ext. 6509

E-mail: jmclean@savannahga.gov | www.savannahga.gov



From: Hayes, Jen < hayes.j@tandh.com > Sent: Thursday, October 27, 2022 3:36 PM

To: Julie McLean < JMcLean@Savannahga.Gov >; Peter Ghilarducci < PGhilarducci@Savannahga.Gov >
Cc: Suzanne Cooler < svcooler@chathamcounty.org >; Giordano, John < giordano.j@tandh.com >; Pinto, Eric < pinto.j@tandh.com >; John Maher (john.maher@ticus.com) < john.maher@ticus.com >; Heath Lloyd < hlloyd@Savannahga.Gov >

Subject: [Caution - External Email] Slip 2 - drawing review conf call

Hello Julie and Peter — The County is currently reviewing the construction plans. We are making some adjustments to accommodate unexpected drainage conditions that were discovered during excavation. I think we should be sending a set of plans to the City sometime the week of November 7th. Do you think we can go ahead and set up a day/time for a conference call to review the plans? I was thinking it would probably be good to walk you through the drawings to review the various components of the design prior to you reviewing in more detail. Can you email your availability for a call the week of November 14<sup>th</sup>?

Thanks, Jen

JEN HAYES, PE, LEED AP | Structural Department Manager
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p 843-725-5292 m 843-696-9643

e hayes.j@tandh.com

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From:

Hayes, Jen <hayes.j@tandh.com>

Sent:

Wednesday, November 2, 2022 2:25 PM

To:

Giordano, John; Mark Slaughter; Suzanne Cooler; Pinto, Eric; John.Maher;

Johncharles.Lollar; Chase.Rees

**Subject:** 

**RE: Broken Anchors** 

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Yeah I was wondering about that too....



JEN HAYES, PE, LEED AP | Structural Department Manager THOMAS & HUTTON

p 843-725-5292 m 843-696-9643

e hayes.j@tandh.com

a 682 Johnnie Dodds Blvd.; Suite 100 | Mt. Pleasant, SC 29464 vCard | Website | LinkedIn | Facebook | Twitter | Instagram

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From: Giordano, John <giordano.j@tandh.com> Sent: Wednesday, November 2, 2022 2:23 PM

**To:** Mark Slaughter <mrslaughter@chathamcounty.org>; Suzanne Cooler <svcooler@chathamcounty.org>; Hayes, Jen <hayes.j@tandh.com>; Pinto, Eric <pinto.j@tandh.com>; John.Maher <John.Maher@ticus.com>; Johncharles.Lollar <johncharles.lollar@ticus.com>; Chase.Rees <chase.rees@ticus.com>

**Subject:** RE: Broken Anchors

Do they have construction equipment on top of the garage?

JOHN GIORDANO, PE | Principal/Project Manager

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p 912-721-4054 m 912-704-7985

e giordano.j@tandh.com

a 50 Park of Commerce Way | Savannah, GA 31405

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From: Mark Slaughter < mrslaughter@chathamcounty.org>

Sent: Wednesday, November 2, 2022 2:18 PM

**To:** Suzanne Cooler <<u>svcooler@chathamcounty.org</u>>; Giordano, John <<u>giordano.j@tandh.com</u>>; Hayes, Jen <<u>hayes.j@tandh.com</u>>; Pinto, Eric <<u>pinto.j@tandh.com</u>>; John.Maher <<u>John.Maher@ticus.com</u>>; Johncharles.Lollar <<u>johncharles.lollar@ticus.com</u>>; Chase.Rees <<u>chase.rees@ticus.com</u>>

**Subject: Broken Anchors** 

Hello to All.

I am asking TIC to remove all broken anchors that pose a Safety Hazard to a point of below grade and also along the concrete header, the ones that are still holding shall stay until they break or the header is removed. Thanks

### Get Outlook for iOS

From:

Hayes, Jen <hayes.j@tandh.com>
Thursday, October 27, 2022 2:30 PM

Sent: To:

Suzanne Cooler

Cc:

Giordano, John; Pinto, Eric

Subject:

RE: Hutchinson Wall Update

Attachments:

Slip 2 - status update mtg Agenda 10.27.2022.docx

CAUTION: This email originated from outside of Chatham County. Do not click links or open attachments unless you recognize the sender and know the content is safe.

Suzanne – I've attached a draft of agenda for today. Feel free to modify, as needed. Should be short discussion.

JEN HAYES, PE, LEED AP | Structural Department Manager

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p 843-725-5292 m 843-696-9643

e hayes.j@tandh.com

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## ----Original Appointment----

From: Suzanne Cooler <svcooler@chathamcounty.org>

Sent: Monday, September 19, 2022 2:03 PM

To: Suzanne Cooler; Faye.DiMassimo@catchacat.org; Michael Kaigler; Linda Cramer; Jessica Bigelow; Mark Slaughter;

jmclean@savannahga.gov; Heath\_Lloyd@savannahga.gov; Jay.melder@savannahga.gov; Pinto, Eric;

SSpinks@savtcc.com; chuck.hucks@ticus.com; Giordano, John; rhickman@savtcc.com; guoming.lin@terracon.com;

Carl.KleemanIII@ticus.com; mark@waterga.com; Stuart.Robinson@westin.com; Jones, Ben; Hayes, Jen;

John.Allen@catchacat.org; John.Maher@ticus.com; Enoch Dumas

Subject: Hutchinson Wall Update

When: Thursday, October 27, 2022 3:30 PM-4:30 PM (UTC-05:00) Eastern Time (US & Canada).

Where: Microsoft Teams

TIC is wrapping up stabilization and investigation stage. T&H is working to provide plans for the rebuild. I would like to move the meeting and official update to next week. I anticipate having a better update next week.

# Microsoft Teams meeting

Join on your computer, mobile app or room device

Click here to join the meeting

Meeting ID: 294 811 022 883

Passcode: SzDauR

Download Teams | Join on the web

# Or call in (audio only)

+1 912-328-1109,,64579154# United States, Savannah

Phone Conference ID: 645 791 54#

Find a local number | Reset PIN

Learn More | Meeting options



# HUTCHINSON ISLAND - SLIP 2 REPAIRS PROJECT UPDATE

Date:

October 27, 2022, 3:30 PM

Location:

Virtual Meeting: Microsoft Teams

Join on your computer, mobile app or room device

Click here to join the meeting Meeting ID: 294 811 022 883

Passcode: SzDauR

# 1. Status Update

- a. Review current status of site
  - i. Demolition activities
  - ii. Unanticipated Drainage structures
- b. Design Documents
  - i. Drawings issued to County for review
  - ii. Structural being revised to accommodate drainage structures
  - iii. Revisions based on contractor feedback

## 2. Coordination Items

- a. Vibration Monitoring schedule?
- b. Convention Center and Westin
  - i. Future events for coordination
- c. City review of drawings
- d. CAT operations

#### 3. Questions

From: Giordano, John <giordano.j@tandh.com>

Sent: Tuesday, October 25, 2022 9:41 AM

**To:** Mark Slaughter; Pinto, Eric; Suzanne Cooler; Johncharles.Lollar; John.Maher

**Subject:** RE: Map of Hutchinson Slip 2

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Understood. We'll keep them in there

JOHN GIORDANO, PE | Principal/Project Manager

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**p** 912-721-4054 **m** 912-704-7985

e giordano.j@tandh.com

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From: Mark Slaughter < mrslaughter@chathamcounty.org>

Sent: Tuesday, October 25, 2022 8:39 AM

**To:** Giordano, John <giordano.j@tandh.com>; Pinto, Eric <pinto.j@tandh.com>; Suzanne Cooler <svcooler@chathamcounty.org>; Johncharles.Lollar <johncharles.lollar@ticus.com>; John.Maher

<John.Maher@ticus.com>

Subject: Fwd: Map of Hutchinson Slip 2

Eric and John, I just got confirmation that we do need to include the lower planters.

# Get Outlook for iOS

From: Suzanne Cooler <svcooler@chathamcounty.org>

Sent: Tuesday, October 25, 2022 7:53:02 AM

To: Mark Slaughter <mrslaughter@chathamcounty.org>

Subject: FW: Map of Hutchinson Slip 2

The City owns the lower planters. The will need to be included on the plans for reconstruction.

From: David Anderson < DGAnders@chathamcounty.org>

Sent: Thursday, July 7, 2022 9:03 AM

To: Suzanne Cooler < <a href="mailto:svcooler@chathamcounty.org">svcooler@chathamcounty.org</a>
Co: Mark Slaughter < <a href="mailto:mrslaughter@chathamcounty.org">mrslaughter@chathamcounty.org</a>

Subject: RE: Map of Hutchinson Slip 2

Attached is what I could determine based on Field Observations 7/6/2022 and using recorded Plats and Deeds.

Stairs – COS 1252 Sq foot of Area

Two Lower Planters

Lower West – CC 55.14, COS 100.28, GA 358.59

Lower East – CC 86.4, COS 592.6

Two Mid Planters

Mid West - COS 432.7

Mid East - COS 411.4

Two Top Planters

Top West - COS 526.4

Top East - COS 1201'

**Pavers** 

City of Savannah Pavers lower level behind Riverwalk - 3856.3'

State of Georgia Pavers lower level behind Riverwalk - 294.7'

Chatham County Pavers lower level behind Riverwalk - 2820'

Wall

Chatham County Owned Wall at Parking Easement - 162.2'

City of Savannah Wall - 3.2'

State of Georgia Wall - 6.6'

Sincerely,

**David Anderson** 

From: Suzanne Cooler < svcooler@chathamcounty.org>

Sent: Wednesday, July 6, 2022 10:21 AM

To: David Anderson < <a href="mailto:DGAnders@chathamcounty.org">DGAnders@chathamcounty.org</a> Cc: Mark Slaughter < <a href="mailto:mrslaughter@chathamcounty.org">mrslaughter@chathamcounty.org</a>

Subject: Map of Hutchinson Slip 2

#### Dave,

You have provided a map of ownership of and around the slip, but I can't find it at the moment. Will you provide an exhibit that shows the ownership of:

- The stairs:
- The two lower planters;
- The two tall planters on either side of the stairs;
- The pavers; and
- The wall.

Thank you,

# Suzanne V. Cooler, P.E.

County Engineer, Chatham County

124 Bull Street, Ste 430

Savannah, Georgia 31401

912-652-7800

svcooler@chathamcounty.org

From:

Pinto, Eric <pinto.j@tandh.com>

Sent:

Friday, October 28, 2022 12:53 PM

To:

Mark Slaughter; Giordano, John; Hayes, Jen; Suzanne Cooler; 'John Maher';

Johncharles.Lollar

Subject:

RE: Trade Center Corner work

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Those are good photos, thanks for sending them. It is very tight there, I stopped the relieving slab short of that area because of that...

ERIC PINTO, PE | Structural Project Manager

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p 843-725-5230 m 843-860-5573

e pinto.i@tandh.com

a 682 Johnnie Dodds Blvd.; Suite 100 | Mt. Pleasant, SC 29464

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From: Mark Slaughter < mrslaughter@chathamcounty.org>

Sent: Friday, October 28, 2022 8:44 AM

To: Giordano, John <giordano.j@tandh.com>; Pinto, Eric <pinto.j@tandh.com>; Hayes, Jen <hayes.j@tandh.com>;

Suzanne Cooler < svcooler@chathamcounty.org>

**Subject:** Trade Center Corner work

Hood Morning I was concerned that someone might not understand just how tight this corner is.

Here are just a few but you can see that, there is very little room at this spot. Thanks

From: Hayes, Jen <hayes.i@tandh.com>

Sent: Thursday, October 27, 2022 3:36 PM To:

Cc: Suzanne Cooler; Giordano, John; Pinto, Eric; John Maher (john.maher@ticus.com); Heath

Julie McLean; Peter Ghilarducci

Lloyd

Subject: Slip 2 - drawing review conf call

CAUTION: This email originated from outside of Chatham County. Do not click links or open attachments unless you recognize the sender and know the content is safe.

Hello Julie and Peter - The County is currently reviewing the construction plans. We are making some adjustments to accommodate unexpected drainage conditions that were discovered during excavation. I think we should be sending a set of plans to the City sometime the week of November 7th. Do you think we can go ahead and set up a day/time for a conference call to review the plans? I was thinking it would probably be good to walk you through the drawings to review the various components of the design prior to you reviewing in more detail. Can you email your availability for a call the week of November 14<sup>th</sup>?

Thanks, Jen

JEN HAYES, PE, LEED AP | Structural Department Manager THOMAS & HUTTON - TRANSFORMING COMMUNITIES FOR 75 YEARS!

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From: Pinto, Eric <pinto.j@tandh.com>

Sent: Wednesday, November 9, 2022 11:16 AM

**To:** Suzanne Cooler; Mark Slaughter; 'John Maher'; JMcLean@Savannahga.Gov;

hlloyd@Savannahga.Gov

Cc: Giordano, John; Hayes, Jen

**Subject:** Slip 2 Repair Drawings - for review

**Attachments:** 30359\_0000 - Slip 2 Repair - 2022-11-09.pdf

CAUTION: This email originated from outside of Chatham County. Do not click links or open attachments unless you recognize the sender and know the content is safe.

Please see the attached drawings for your review.

ERIC PINTO, PE | Structural Project Manager

**THOMAS & HUTTON** 

p 843-725-5230 m 843-860-5573

e pinto.j@tandh.com

a 682 Johnnie Dodds Blvd.; Suite 100 | Mt. Pleasant, SC 29464 vCard | Website | LinkedIn | Facebook | Twitter | Instagram

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