
From: Joseph.Brubaker@dot.ohio.gov
Sent: Monday, September 16, 2024 10:35 AM
To: Andrew.Holloway@dot.ohio.gov; Farrell, Zac
Cc: Zachary.Amnaah@dot.ohio.gov; Kunz, Chris; Carter, Josh
Subject: RE: 23-3008 Ramp D Pavement Design
Attachments: We sent you safe versions of your files; 23-3008 Ramp D Cracked Panels.pdf

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Andrew,

All the cracks are mid-panel. We checked all the joint depths, and they were all over 3". We did notice that some of the joints had not activated, and some of the cracked panels were near these locations. I think there could be a correlation between this and the cracking that we are seeing. There were no material or workmanship issues that we know of. Also, we had good beam breaks before switching traffic onto the new pavement. Included an attachment that shows the location of each damaged panel and the joints in the pavement. Let me know if you have any questions.

Thanks,

Joe Brubaker
Transportation Manager 3
District 6 Construction
400 E. William St , Delaware OH 43015
Cell : (614) 674-3272
Office: (740) 833-8335
transportation.ohio.gov



From: Holloway, Andrew
Sent: Monday, September 16, 2024 9:47 AM
To: Farrell, Zac ; Brubaker, Joseph
Cc: Amnaah, Zachary ; Kunz, Chris ; Carter, Josh
Subject: RE: 23-3008 Ramp D Pavement Design

Joe/Zac,

Are they mid-panel?

Andrew Holloway, P.E.

Office of Roadway Engineering
1980 W Broad Street, Columbus, Ohio 43223
Office: 614.387.4020 Cell: 513.305.7932



**Department of
Transportation**

From: Farrell, Zac <Zac.Farrell@jrjnet.com>
Sent: Monday, September 16, 2024 9:42 AM
To: Holloway, Andrew <Andrew.Holloway@dot.ohio.gov>
Cc: Amnah, Zachary <Zachary.Amnah@dot.ohio.gov>; Brubaker, Joseph <Joseph.Brubaker@dot.ohio.gov>; Kunz, Chris <Chris.Kunz@jrjnet.com>; Carter, Josh <Josh.Carter@jrjnet.com>
Subject: Re: 23-3008 Ramp D Pavement Design

Andrew,

Here are a few, Joe Brubaker actually sent these to me and has some more notes.







Thanks,
Zac



ZACHARIAH FARRELL
PROJECT MANAGER
[11641 Mosteller Rd. Cincinnati, OH 45241](https://www.jrjnet.com)
Tel: +513.771.0820, Cell: +513.502.3941
Email: zac.farrell@jrjnet.com Web: www.jrjnet.com

On Sep 16, 2024, at 9:37 AM, Andrew.Holloway@dot.ohio.gov wrote:

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Thanks Zac, any images of the cracking?

Andrew Holloway, P.E.
Office of Roadway Engineering
1980 W Broad Street, Columbus, Ohio 43223
Office: 614.387.4020 Cell: 513.305.7932

From: Farrell, Zac <Zac.Farrell@jrjnet.com>
Sent: Monday, September 16, 2024 9:36 AM
To: Holloway, Andrew <Andrew.Holloway@dot.ohio.gov>
Cc: Amnah, Zachary <Zachary.Amnah@dot.ohio.gov>; Brubaker, Joseph <Joseph.Brubaker@dot.ohio.gov>; Kunz, Chris <Chris.Kunz@jrjnet.com>; Carter, Josh <Josh.Carter@jrjnet.com>
Subject: Re: 23-3008 Ramp D Pavement Design

At this point about over 1/2.
Thanks,
Zac



ZACHARIAH FARRELL
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On Sep 16, 2024, at 9:28 AM, Andrew.Holloway@dot.ohio.gov wrote:

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How much of the ramp has been completed?

Andrew Holloway, P.E.

Office of Roadway Engineering

1980 W Broad Street, Columbus, Ohio 43223

Office: 614.387.4020 Cell: 513.305.7932

From: Farrell, Zac <Zac.Farrell@jrjnet.com>

Sent: Friday, September 13, 2024 6:53 PM

To: Amnah, Zachary <Zachary.Amnah@dot.ohio.gov>; Brubaker, Joseph

<Joseph.Brubaker@dot.ohio.gov>; Holloway, Andrew

<Andrew.Holloway@dot.ohio.gov>

Cc: Kunz, Chris <Chris.Kunz@jrjnet.com>; Carter, Josh <Josh.Carter@jrjnet.com>

Subject: Fwd: 23-3008 Ramp D Pavement Design

Guys,

See below. I asked Palmer to take a look at the info for the pavement thickness. Dan believes there may have been an incorrect calculation factor. Can you all check this out and can we have a call Monday afternoon to discuss? If we need to hold up and re-evaluate and make a pavement thickness change on this ramp we can do that right away.

Thanks,

Zac



ZACHARIAH FARRELL

PROJECT MANAGER

[11641 Mosteller Rd. Cincinnati, OH 45241](mailto:zac.farrell@jrjnet.com)

Tel: +513.771.0820, Cell: +513.502.3941

Email: zac.farrell@jrjnet.com Web: www.jrjnet.com

Begin forwarded message:

From: Dan Ficker <DFicker@palmernet.com>

Date: September 13, 2024 at 5:02:49 PM EDT

To: "Farrell, Zac" <Zac.Farrell@jrjnet.com>, Dennis Jennings

<djennings@palmernet.com>

Cc: "Kunz, Chris" <Chris.Kunz@jrjnet.com>, "Carter, Josh"

<Josh.Carter@jrjnet.com>, "Dickmann, Blake"

<Blake.Dickmann@jrjnet.com>

Subject: RE: 23-3008 Ramp D Pavement Design

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I computed about 19,100,000 ESALS (W18), where the state used 9,560,000 ESALS in their rigid pavement design

From: Dan Ficker
Sent: Friday, September 13, 2024 4:54 PM
To: 'Farrell, Zac' <Zac.Farrell@jrjnet.com>; Dennis Jennings <DJennings@palmernet.com>
Cc: Kunz, Chris <Chris.Kunz@jrjnet.com>; Carter, Josh <Josh.Carter@jrjnet.com>; Dickmann, Blake <Blake.Dickmann@jrjnet.com>
Subject: RE: 23-3008 Ramp D Pavement Design

Directional Distribution used was 50%, since it's a ramp it should have been 100%, so the ESALs have been double what they used for the pavement design. I suspect now the pavement is too thin

From: Farrell, Zac <Zac.Farrell@jrjnet.com>
Sent: Friday, September 13, 2024 1:50 PM
To: Dan Ficker <DFicker@palmernet.com>; Dennis Jennings <DJennings@palmernet.com>
Cc: Kunz, Chris <Chris.Kunz@jrjnet.com>; Carter, Josh <Josh.Carter@jrjnet.com>; Dickmann, Blake <Blake.Dickmann@jrjnet.com>
Subject: Fwd: 23-3008 Ramp D Pavement Design

Dan,
I asked ODOT about the pavement design related to our panels cracking. Attached is their pavement design parameters. Does this look right to you all? Is there any reason they should have directed a thicker pavement section?

Thanks,
Zac



ZACHARIAH FARRELL
PROJECT MANAGER
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Begin forwarded message:

From: Zachary.Amnaah@dot.ohio.gov
Date: September 13, 2024 at 1:45:15 PM EDT
To: "Farrell, Zac" <Zac.Farrell@jrjnet.com>
Cc: Joseph.Brubaker@dot.ohio.gov
Subject: 23-3008 Ramp D Pavement Design

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Mimecast Attachment Protection. Files where no
threat or malware was detected are attached.

Zac,

As discussed, I have attached the Ramp D pavement
design. Doing a cursory review, nothing seems out of
place. Let me know if you have any questions.

Thanks,

Zac Amnah, PE

Construction Area Engineer
ODOT District 6
400 E. William St., Delaware, OH 43015
(m) 614.254.4288 (p) 740.833.8034
transportation.ohio.gov

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