Vehicular Rolling Load Testing

Model Tested: 3/4" Peditred G4 with Carpet Insert

Test Date: January 21, 2026 **Type of Test:** Rolling Load **Project#:** CSCT-25-003

Test Location: Milton, PA **Test Standard:** None **Test Report#:** 25-003-05

This testing was conducted to evaluate the effects of a vehicle driving across Model 3/4" Peditred G4 with Carpet Insert at low speed. As there is no known or established national test standard for this application, this testing was conducted under the procedures described within. For this evaluation, a 1,750 lb. wheel load was applied. (The 1,750 lb. tire load represents the weight of a 7,000 lb. vehicle with the load divided over (4) wheels.) Under these procedures, Peditred G4 demonstrated the ability to withstand the vehicular rolling load stresses without sustaining any significant damage or deformation that results in failure of the product.

It is noted that placing plywood over the unit, in the path of the vehicle tires, will reduce the potential for localized compression of the carpet.

Test Procedure

A 24"(61cm) wide x 30"(76.2cm) long/traffic direction sample of 3/4" Peditred G4 was provided by CS EFS. The sample was of standard design and contained no modifications. Standard Locator Bars were also provided and utilized for installation.

A wood platform was constructed for installation of the sample and included a ¾" recess to receive the sample. (See drawings.) A Location bar was installed at each corner of the recess according to installation instructions and anchored with screws. The sample was placed onto the wood platform and positioned over the Locator Bars.

The wood platform/sample assembly was placed into position adjacent to the CS Cycling Machine with wood blocking installed to prevent the platform from moving during testing.

The C/S Rolling Load Cart was attached to the Cycling Machine and positioned over the test sample. A concrete filled barrel was placed onto the cart to apply a 1,750 lb. load at the tire. The cart is fitted with a light-duty truck wheel/tire. (Prior to the positioning of the wood platform/assembly in position, the Cart was attached to the Cycling Machine. The tire of the cart was positioned on a shipping scale to confirm load weight. The weight barrel was placed on the cart, and the position of the barrel was adjusted until a tire load of 1,750 lbs. was achieved.)

The Cycling Machine was programmed to drive the Load Cart back-and-forth over the Peditred sample along the traffic direction centerline. A total of 1,000 passes were conducted. Testing was stopped periodically to observe and/or inspect the sample for performance. These observations are noted and included in this report.

At the conclusion of the 1,000 passes the sample was removed and inspected for any damage and/or permanent deformation that would negatively affect its performance. All details pertaining to the test and the results are included in the following photos and attachments. The testing was also recorded with video which is available upon request.

Vehicular Rolling Load Testing

Testing was conducted and witnessed by CS EJC Engineering, Roger Barr and Daniel Wright. Report prepared by Roger Barr, 1/22/26.

A copy of this report will be retained by Construction Specialties, Inc. Results obtained are tested values and were secured by using the designated test methods. This report is exclusive property of Construction Specialties, Inc. and relates only to the specimens tested and listed in this report. This report may not be reproduced, except in full, without the written approval of Construction Specialties, Inc.

For CONSTRUCTION SPECIALTIES, INC.

Roger W. Barr
EJC Testing Manager

Tim Fisher
EJC Engineering Manager

Vehicular Rolling Load Testing

Photos:

Load Verification

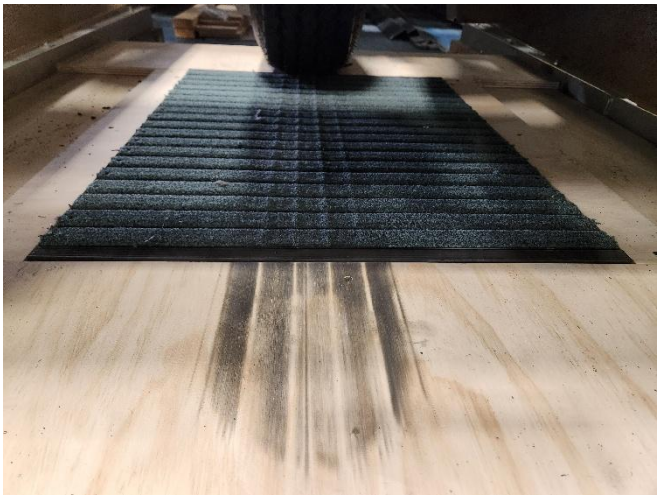
Test Setup

Vehicular Rolling Load Testing

Test Setup

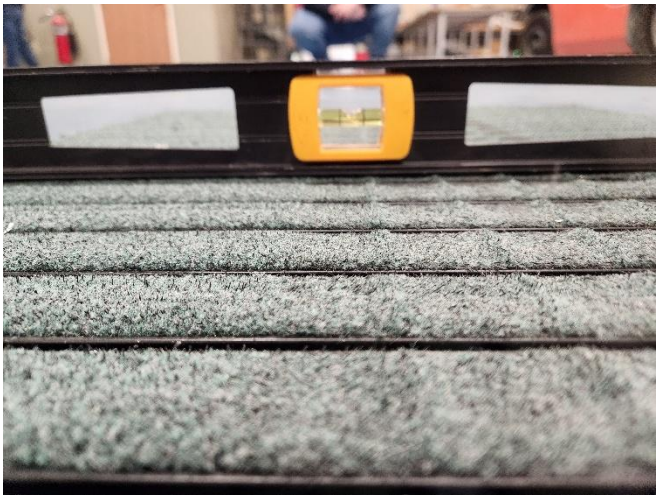
After (20) Passes

Vehicular Rolling Load Testing



After (500) Passes

Vehicular Rolling Load Testing



After (1000) Passes

Vehicular Rolling Load Testing

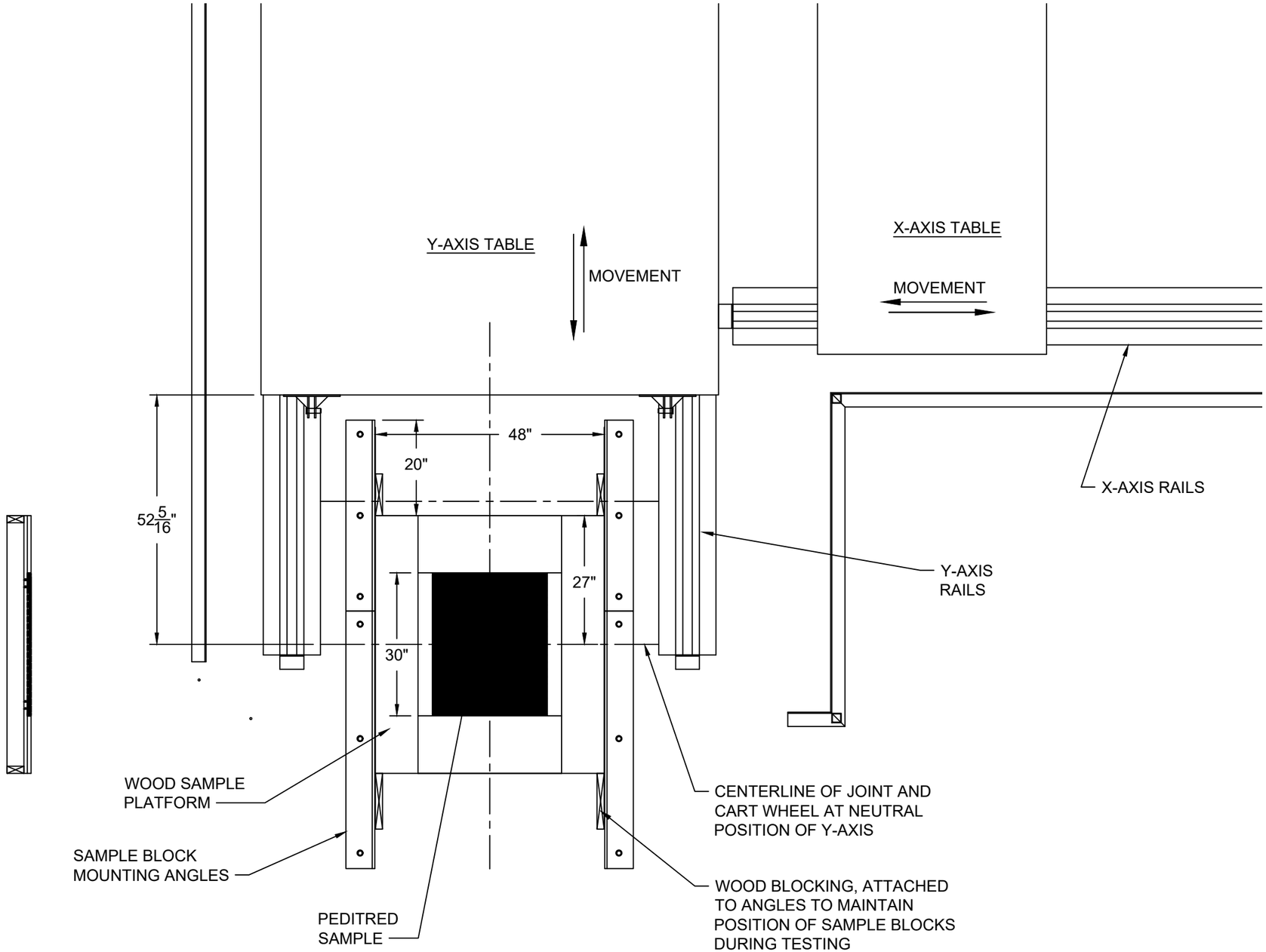
After (1000) Passes

C/S EJC ROLLING LOAD TEST

Rolling Load Test Observation Sheet

Project #:	CSCT-25-003	**Test ID/#:**	25-003-05
Test Start Date:	1/21/2026	**Test End Date:**	1/21/2026
EFS Model:	Peditred with Carpet Insert		
Note Modifications from Standard Model:	None		
Wheel Load Applied:	1750	Verified Weight (Lbs):	1751
Travel Distance (+/-in.):	40"	**Travel Speed (in./sec.):**	12
Program Dim. (Black Scale):	Retract: 22.000	Extend: 62.000	
Installation Notes: (Cure Time, Mounting Block Type, Deflection Pad…)	A 30" L (traffic dir.) x 24" W sample of EFS model Peditred with Carpet Insert is installed into a 3/4" deep recess in a wood construction platform. The sample has locator bars at each corner. Top surface of wood platform is flush with sample surface.		

Number of Passes Completed (Cycles)	Observations
20(10)	20 - Slight compresson of the carpet in the tire path.
50(15)	50 - Additioal compression of the carpet.
100(25)	100 - Similar
200(50)	200 - Similar. Cycle time: 50 cycles = 6min 10 sec. (7.4sec/cycle)
500(150)	500 - The sample was removed for inspection. The carpet was brushed with a broom and rebounded somewhat. Carpet looks good. Looking at the underside there is no notable deflection or concerns. Good to proceed.
1000(250)	1000 - There is noteable compression of the carpet in the tire path. There is no other notable damage or conerns.
Additional Notes:	
Post Test Notes:	At the direction of EFS personnel, the remaining (500) Passes were conducted. At the completion of the 1,000 passes was complete, the sample was removed for inspection. There is noteable compression of the carpet in the tire path. The carpet was again brushed with a broom. Some rebound occured. There is no notable damage or issues. The product remains serviceable.
Technician Initials:	R. Barr
Date:	1/21/2026



MODEL PEDITRED
ROLLING LOAD TESTING
SAMPLE INSTALLATION LAYOUT
SCALE: 1/2" = 1'

TEST 25-003-05 PLAN
- ROLLING LOAD TEST WITH PASSINGER LIGHT TRUCK WHEEL/TIRE MOUNTED ON ROLLING LOAD CART.
- THE WHEEL LOAD ON THE SURFACE OF THE SAMPLE TO BE APPROX. 1750 LBS.
- CART TO BE MOVE BACK AND FORTH OVER THE TEST SAMPLE 500 TIME EQUALING 1,000 TOTAL PASSES.
- PASSES TO BE CONDUCTED IN 250 PASS INCREMENTS. AT THE COMPLETION OF EACH INCREMENT OBSERVATIONS WILL BE RECORDED AND PHOTOGRAPHS TAKEN.
- AT THE CONCLUSION OF THE 1,000 PASSES THE COVER WILL BE DISASSEMBLED AND OBSERVATION RECORDED.
- A FINAL REPORT WILL THEN BE COMPILED.
- PORTIONS OF THE TESTING WILL ALSO BE VIDEO RECORDED.

CART NOT SHOWN FOR CLARITY.
SEE PAGE 2.

Construction Specialties
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R:_EJC_EJC Projects\CS Cycle Testing (CSCT)\2025\CSCT-25-003 (EFS Rolling Load Testing)\Test Dwgs - Forms - Photos\Test 25-003-05 (Peditred)\10-1-25 Test 25-003-05 Prop Dwg.dwg, 3/27/2007 10:46 AM, Roger Barr

DESCRIPTION: ROLLING LOAD TESTING LAYOUT
MODEL: PEDITRED
PASSINGER LIGHT TRUCK TIRE

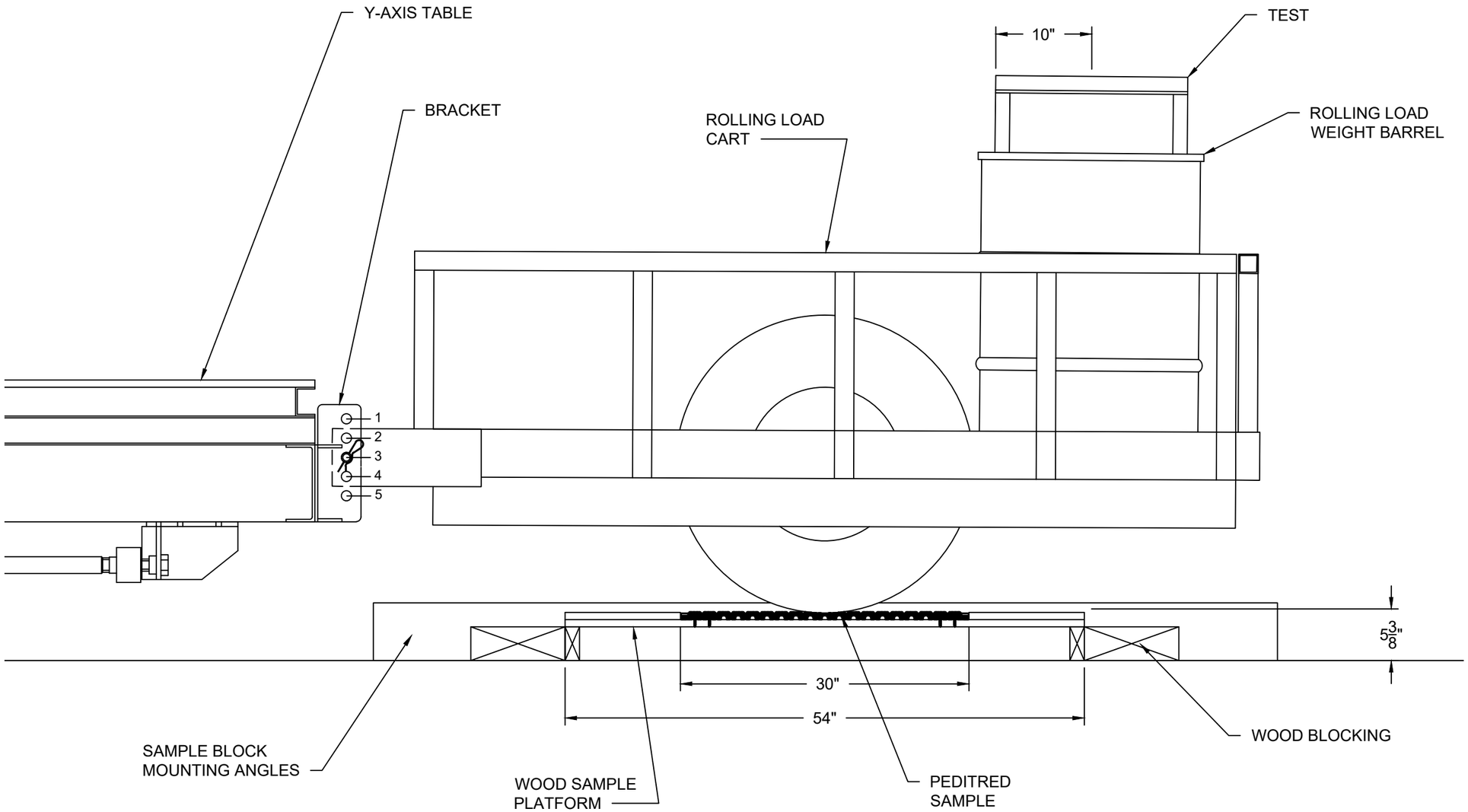
PROJECT NO.: CSCT-25-003

REV	DESCRIPTION	SHT	BY	DATE
A	REVISED		RB	10/1/25

REVISION HISTORY

PART NUMBER:

APPD BY:
DWG BY: RB
DATE: 10/1/25
DRAWING NO.: 25-003-05
SHT. 1 OF 5



MODEL PEDITRED
ROLLING LOAD TESTING
SAMPLE INSTALLATION LAYOUT
SCALE: 1:12

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DESCRIPTION: ROLLING LOAD TESTING LAYOUT
MODEL: PEDITRED
PASSINGER LIGHT TRUCK TIRE

PROJECT NO.: CSCT-25-003

REV	DESCRIPTION	SHT	BY	DATE
A	REVISED		RB	10/1/25

REVISION HISTORY

PART NUMBER:

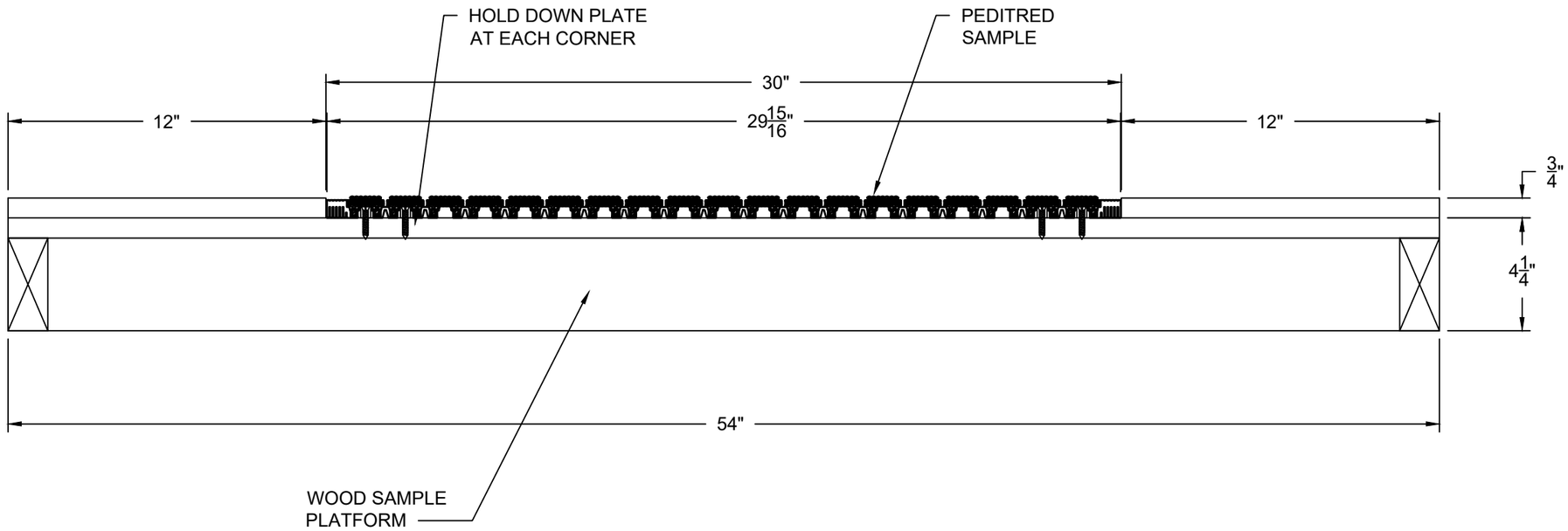
APPD BY:

DWG BY: RB

DATE: 10/1/25

DRAWING NO.: 25-003-05

SHT. 2 OF 5



MODEL PEDITRED
ROLLING LOAD TESTING
MOUNTING DETAIL
SCALE: 1:5

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DESCRIPTION:
ROLLING LOAD TESTING LAYOUT
MODEL: PEDITRED
PASSINGER LIGHT TRUCK TIRE

PROJECT NO.: CSCT-25-003

REV	DESCRIPTION	SHT	BY	DATE
A	REVISED		RB	10/1/25

REVISION HISTORY

PART NUMBER:

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DWG BY: RB

DATE: 10/1/25

DRAWING NO.: 25-003-05

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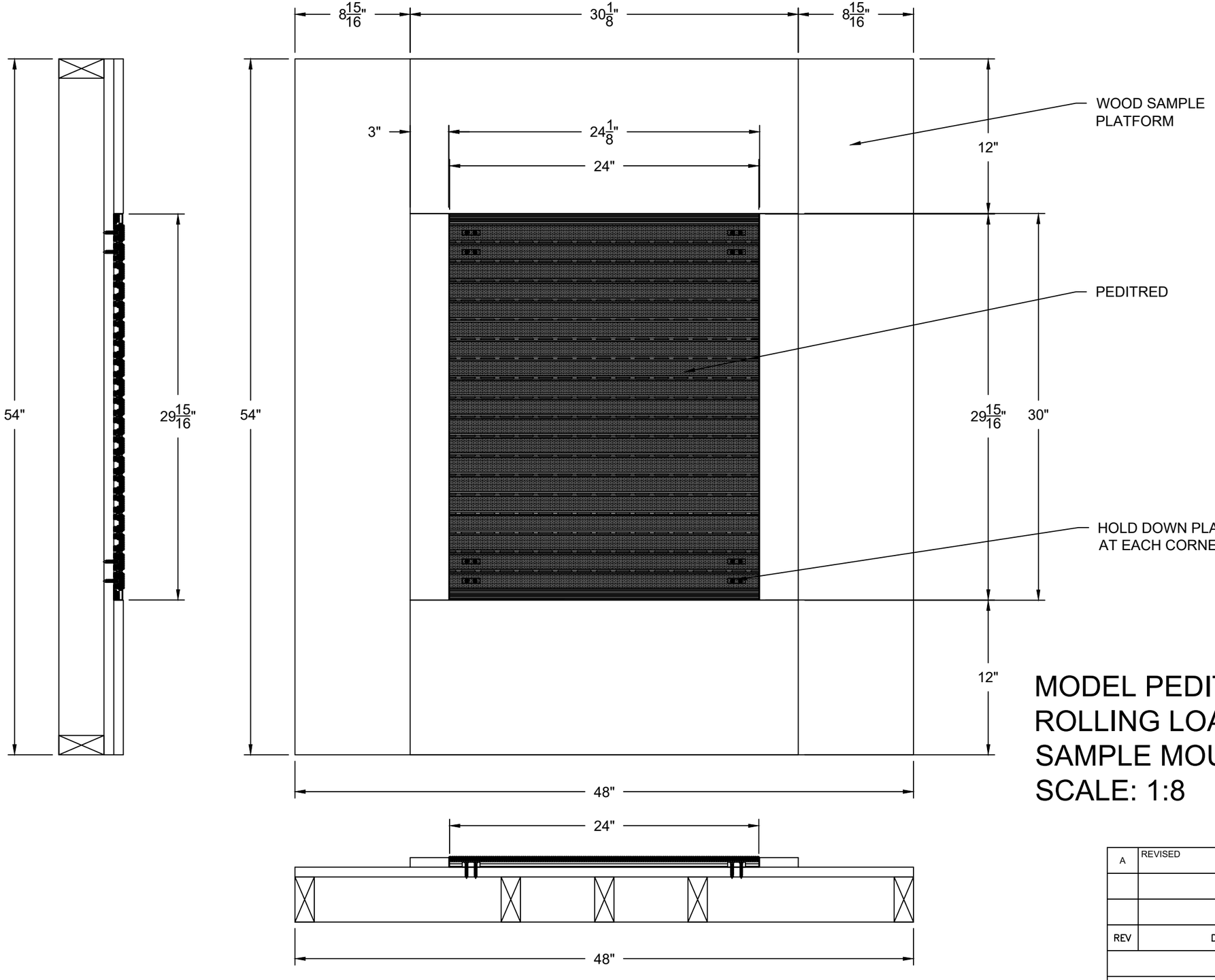

MODEL PEDITRED
ROLLING LOAD TESTING
SAMPLE MOUNTING PLAN
SCALE: 1:8

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DESCRIPTION:
ROLLING LOAD TESTING LAYOUT
MODEL: PEDITRED
PASSINGER LIGHT TRUCK TIRE

PROJECT NO.: CSCT-25-003

R:_EJC_EJC Projects\CS Cycle Testing (CSCT)\2025\CSCT-25-003 (EFS Rolling Load Testing)\Test Dwgs - Forms - Photos\Test 25-003-05 (Peditred)\10-1-25 Test 25-003-05 Prop Dwg.dwg, 3/27/2007 10:46 AM, Roger Barr

REV	DESCRIPTION	SHT	BY	DATE
A	REVISED		RB	10/1/25

REVISION HISTORY

PART NUMBER:

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DATE: 10/1/25

DRAWING NO.:
25-003-05

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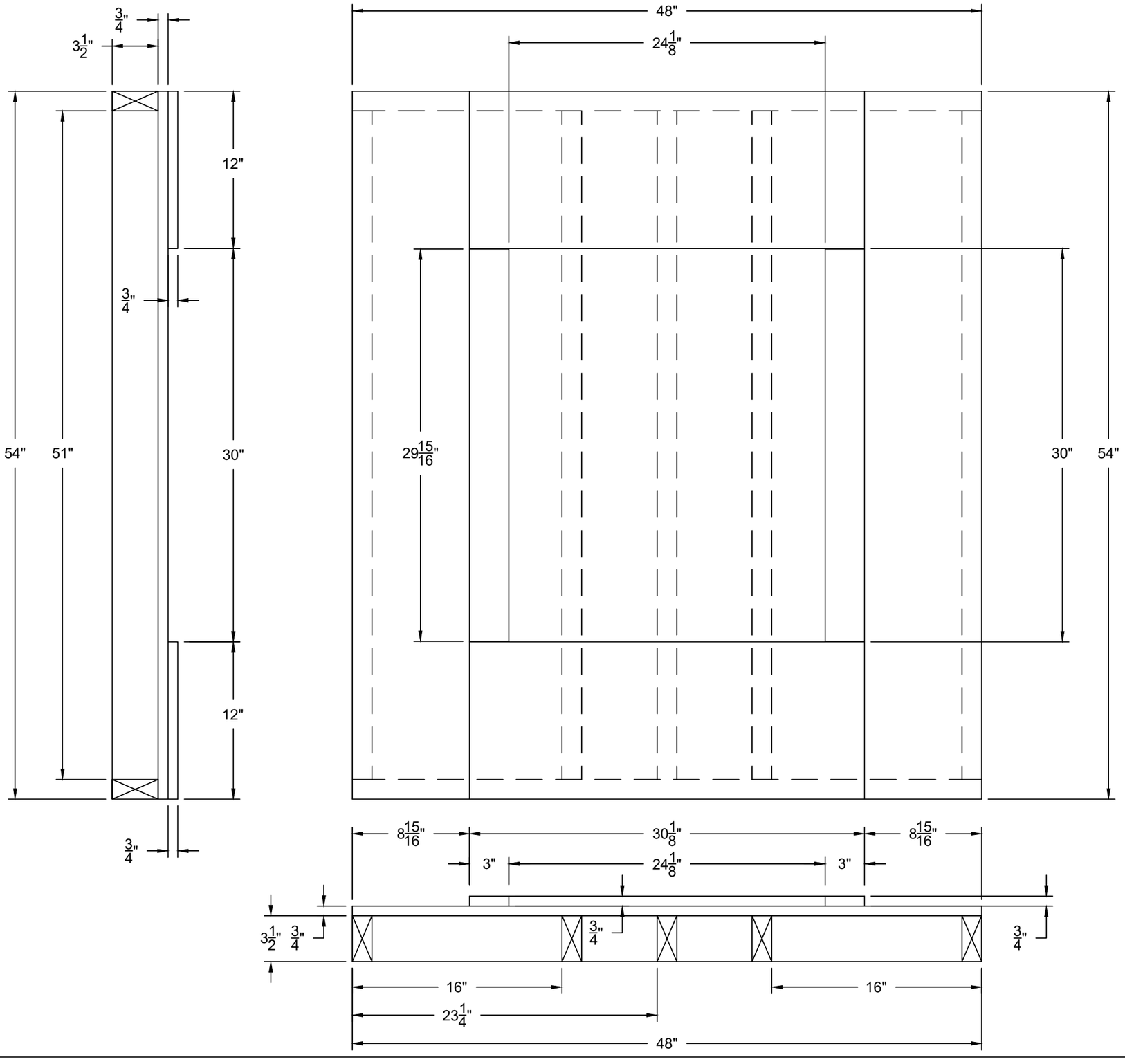

MODEL PEDITRED
ROLLING LOAD TESTING
WOOD PLATFORM LAYOUT
SCALE: 1:8

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DESCRIPTION:
ROLLING LOAD TESTING LAYOUT
MODEL: PEDITRED
PASSINGER LIGHT TRUCK TIRE

PROJECT NO.: CSCT-25-003

REV	DESCRIPTION	SHT	BY	DATE
A	REVISED		RB	10/1/25

REVISION HISTORY

PART NUMBER:

APPD BY:

DWG BY: RB

DATE: 10/1/25

DRAWING NO.:
25-003-05

SHT. 5 OF 5