Washington State Department of Transportation

# Field Note Record

| Contract No. | Station | Mile/Line: | C/S |
|---|---|---|---|
| 9682 | n/a | I-90 / I-182 | n/a |

| Staked by | Date | Work Started Date | Work Completed | Date |
|---|---|---|---|---|
| n/a | | | | |

| Calculated by | Date | Checked by | Date | Inspector | Date |
|---|---|---|---|---|---|
| E. Knudson | | Dean A. Long | | n/a | |
| 12/14/2021 | | 12/14/2021 | | | |

MOH Item 903
Item 8 - Cantilever Sign Structure No. 2

This FNR makes payment for the materials associated with Item 8.

Payment has been authorized by Clint Bucknell, Chief Inspector.

See attached for additional information.

| Item Num | Material Brand Name/Model Type | Manufacturer | Brand Name/Model Type | RAMS/QPL Ref. No. | Appr/Acc Code | Basis of Accept |
|---|---|---|---|---|---|---|
| | | | | | / | |

| Item Num | Item Description | Grp | Date Work Complete | Unit | Quantity | Ledger Entry No. | Posted By Init. | Posted By Date | Checked By Init. | Checked By Date | Est. No. |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 0903 | MOH ITEM 903 - ITEM 8 - CANTILEVER SIGN STRUCTURE NO. 2 | 90 | 12/20/20... | EST. | 3,273.46 | 008 | EK | 01/03/22 | | | 2 |

## Attachments

Item 7 and 8 - Rainier Welding #18801.pdf
Adobe Acrobat Document
1.65 MB

DOT Form IP 422-635ER EF
Revised 4/2009

Rainier Welding LLC
12441 Bartholomew RD,
Anacortes WA 98221
425-868-1300

# Invoice

| Bill To |
|---|
| Northeast Electric LLC<br>1780 Down River Drive<br>Woodland WA 98674 |

| Date | Invoice # |
|---|---|
| 11/30/2021 | 18801 |

Rainier Welding has expanded operations!
Please remit all payments to 12441 Bartholomew RD, Anacortes WA 98221.
Thank you!

| P.O. Number & Project | Terms | RW Project No. |
|---|---|---|
| 1969 WSDOT 9682 | Net 30 | 21-3333 |

| Description | Total - 100% | Amount |
|---|---|---|
| JOB 14244 / I-90 / SR18 & I-82/ Argent Rd. | | |
| Cantilever 1 | | 0.00 |
| Material | 0.12124 | 3,273.46 |
| Cantilever 2 | | |
| Material | 0.12124 | 3,273.46 |

**BI 7 = $3,273.46**
**BI 8 = $3,273.46**

| | |
|---|---|
| Subtotal | $6,546.92 |
| Sales Tax (0.0%) | $0.00 |
| **Balance Due** | **$6,546.92** |

For questions or billing inquires please contact
Ashley Henson - Ashley@rainierwelding.com

**Rainier Welding**

19020 N.E. 84TH Street
Redmond, WA 98053
Phone: 425-868-1300

APPLICATION NUMBER 2
APPLICATION DATE November 30th 2021
PERIOD TO November 30th 2021

**I-90 / SR18 & I-82/Argent Rd.** **WSDOT # 9682**

**PO 1969** **RW PROJECT NO: 21-3333**

Northeast Electric LLC 1780 Down River Dr. Woodland
Wa. 98674

| | | | | Oct | Nov | Dec | Jan | Feb | TOTAL BILLING | % |
|---|---|---|---|---|---|---|---|---|---|---|
| **ITEM** | **DESCRIPTION** | **UNIT** | **SCHEDULED VALUE** | | | | | | | |
| | **Cantilever 1** | | | | | | | | | |
| 1 | Detailing | | $7,025.00 | $7,025.00 | | | | | $7,025.00 | 100% |
| 2 | Material | | $27,000.00 | | $3,273.46 | | | | $3,273.46 | 12% |
| 3 | Labor | | $35,000.00 | | | | | | $0.00 | 0% |
| 4 | **Cantilever 2** | | | | | | | | | |
| 5 | Detailing | | $7,025.00 | $7,025.00 | | | | | $7,025.00 | 100% |
| 6 | Material | | $27,000.00 | | $3,273.46 | | | | $3,273.46 | 12% |
| 7 | Labor | | $35,000.00 | | | | | | $0.00 | 0% |
| | | | | | | | | | | |
| | **Total Base Contract** | | $138,050.00 | $14,050.00 | $6,546.92 | $0.00 | $0.00 | $0.00 | $20,596.92 | 14.92% |
| | **Approved Change Orders** | | | | | | | | | |
| 1 | | | | | | | | | $0.00 | #DIV/0! |
| | | | | | | | | | $0.00 | #DIV/0! |
| | | | | | | | | | $0.00 | #DIV/0! |
| | | | | | | | | | $0.00 | #DIV/0! |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | **Total Change Order** | | $0.00 | $0.00 | $0.00 | $0.00 | $0.00 | $0.00 | $0.00 | #DIV/0! |
| | **Total Project** | | **$138,050.00** | **$14,050.00** | **$6,546.92** | **$0.00** | **$0.00** | **$0.00** | **$20,596.92** | 14.92% |

**Washington State Department of Transportation**

# Certification of Materials Origin
## (Required for Acceptance of Steel Materials)

| | |
|---|---|
| Awarding Agency Contract No. and Title<br>Washington State Department of Transportation/Contract # 9682 I-90 / SR18 & I-82/Argent Rd. | |
| Contractor<br>Northeast Electric, LLC | |
| Subcontractor | |
| Manufacturer / Supplier<br>Rainier Welding | |
| Materials: Bid Item No. / Bid Item Description<br>3/4 x 28 and 1/2x30 PLATE, 2" Rebar , 2" Nuts, Bolts and Washers | Quantity<br>172 |
| Material Description<br>3/4x28, 1/2x30 Plate and 2" Rebar, 2" Nuts, Bolts and Washers. Anchor Bolts with Embed Plates | |

The following Certification of Materials Origin is made for the purposes of establishing materials acceptance under Contract Provisions entitled "Buy America." Materials as described above are furnished for use in compliance with the certification as noted in 1 or 2 below. Manufacturing processes for the materials are defined on the back of this form.

■ 1. The materials covered by this certification are American-Made with all manufacturing processes entirely within the United State of America.

☐ 2. The materials furnished for this project under this certification contain steel or iron manufactured, all or in part, outside the United States of America, as indicated below.

The Description of these materials and the Country of Origin of these materials is a follows:
Anchor Bolts Assemblies. Embed Plates and Threaded Rods with Nuts.

The Invoice Cost for the above described foreign-made materials is:
$0

I declare under penalty of perjury under the laws of the State of Washington that the foregoing is true and correct.

Rainier Welding

Contractor / Subcontractor / Manufacturer / Supplier Name

Authorized Corporate Official Signature

11/30/21
Date

19020 NE 84th St. Redmond, WA
Place

## The following items are considered to be Steel or Iron Manufacturing Processes

1. Any process from the original reduction from ore to the finished product constitutes a manufacturing process for iron. Foreign source steel ingots or foreign source steel billets used in any manufacturing process of a steel product is considered foreign steel under the Buy America Provision.

2. Production of Steel by any of the following processes:
   a. Open Hearth Furnace.
   b. Basic Oxygen.
   c. Electric Furnace.
   d. Direct Reduction.

3. Rolling, heat treating, and any other similar processing.

4. Fabrication of the products:
   a. Spinning wire into cable or strand.
   b. Corrugating and rolling into culverts.
   c. Shop fabrication.

5. Protective coatings such as zinc, aluminum, epoxy, paint, or any other coating that protects or enhances the value of steel or iron.

6. Due to a nationwide waiver, Buy America does not apply to raw materials (iron ore and alloys), scrap (recycled steel or iron), and pig iron or processed, pelletized, and reduced iron ore.

RAINIER WELDING

19020 NE 84th Street
Redmond, WA 98053

# Purchase Order

**PO #: 3333-001**

19020 N.E. 84th Street
Redmond, WA 98053
Phone: 425-868-1300


10/20/2021 4:09:32 PM

| Order Date: | Ordered By: | F.O.B.: | Order Type: | Ship Via: | Terms: |
|---|---|---|---|---|---|
| 10/19/2021 | Tonya Kaschmitter | Destination | Regular | Truck/Common Carrier | Net 30 days |

Confirmed By: Josh Winograd

Platte Anchor Bolt, Inc
Attn: Josh Winograd
4950 Jackson Street
Denver, CO 80216
Phone: 303-321-5100
Fax: 303-321-5110

Ship To:
Rainier Welding
19020 NE 84th Street
Redmond, WA 98053
Phone: 425-868-1300

Bill To:
Rainier Welding
Bldg. #3
12441 Bartholomew
Anacortes, WA 98221
Phone: 425-868-1300

Melted & Manufactured in the USA

| | Qty | Dimensions | Length | Grade | Job # | Code | Weight | Unit Cost | Cost |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 96 | NU 2 | | A563-DH | 21-3333 I- USA 90 SR18 | | 278# | $0.00/Item | $0.00 |
| 2 | 24 | ROD 2 | 4'-4 | F1554-105 | 21-3333 I- USA 90 SR18 | | 1,112# | $215.00/Item | $5,160.00 |
| 3 | 48 | WA 2 | | F436 | 21-3333 I- USA 90 SR18 | | 0# | $0.00/Item | $0.00 |
| | | | | | | | 1,390# | | |

Hard Copy MTR's to accompany delivery
All MTR/Certs to be sent to: Certs@RainierWelding.com
All Invoices to be sent to: Accounting@RainierWelding.com

| | |
|---|---|
| Sub-Total: | $5,160.00 |
| Total Tax: | $0.00 |
| Freight: | $375.00 |
| Total Price: | $5,535.00 |
| Terms Discount: | $0.00 |
| Total Less Terms Discount: | $5,535.00 |

Anchor Bolts, Nuts, Washers

Platte
Anchor Bolt, Inc.
Manufacturing & Distributing Since 1954
4950 Jackson Street, Denver, CO 80216
Office: (303) 321-5100 Fax: (303) 321-5110

# CERTIFICATE OF COMPLIANCE

This is to certify that the indicated items on your
PO# 3333-001 , our Invoice# 177355
comply with the stated specifications

***Customer: Rainier Welding***

***WSDOT Contract# 9682 Job: I90SR18***

| ITEM NO. | QUANTITY | HEAT / LOT # | DESCRIPTION | SPECIFICATION |
|---|---|---|---|---|
| 1 | 24 | 75079868 | 2" x 52" Anchor Rod HDG | F1554 Gr.105 |
| 2 | 96 | 30518-75066011 | 2" Hev Hex Nut HDG | A563 Gr.DH |
| 3 | 48 | 101591 | 2" Washer HDG | F436 |
| 4 | | | | |
| 5 | | | | |
| 6 | | | | |
| 7 | | | | |
| 8 | | | | |
| 9 | | | | |
| 10 | | | | |
| 11 | | | | |
| 12 | | | | |
| 13 | | | | |
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| 16 | | | | |
| 17 | | | | |
| 18 | | | | |
| 19 | | | | |
| 20 | | | | |
| 21 | | | | |
| 22 | | | | |
| 23 | | | | |
| 24 | | | | |
| 25 | | | | |

*I herein certify this information is true to the best of my knowledge*

Signature: Jordan Winograd

11/3/2021

Jordan Winograd

OK MSJ

# KREHER STEEL COMPANY, LLC.

## Certificate of Mill Test Results

PLATTE ANCHOR BOLT CO.
HOT ROLLED ROUNDS 4140QT F1554/ GR105
2.0000 X 24'3"
PART NO.

PO/Rel 167799
I hereby certify that this data is correct as contained in the records of this company.
I hereby certify that no mercury came in contact with or no weld repair was done to this product while in our possession.
Attn:

SO 1 -347304-001 2Jul20
Pg 1/4

GERDAU

GERDAU SPECIAL STEEL NORTH AMERICA
5591 MORRILL ROAD
JACKSON, MICHIGAN 49201 USA

CERTIFIED MATERIAL TEST REPORT

| CUSTOMER ORDER NUMBER | CUSTOMER PART NUMBER | HEAT NUMBER | WORK ORDER NUMBER | DATE |
|---|---|---|---|---|
| 59616 | | 75079868 | 337764 101 | 5/12/20 |
| | | 240mm Bloom | | |

REPORT TO
KREHER STEEL
1550 N 25TH AVE

MELROSE PARK , IL 60160

SHIP TO
KREHER - CUSTOMER PICK UP

ORDERED

| GRADE | SIZE | LENGTH |
|---|---|---|
| 4140QT | 2" RND | 24' 3" |

CUSTOMER SPECIFICATIONS
A29/A29M-16; A322-13; A193-19 GR B7; A434/A434M-18 CL BC;VD

CHEMICAL ANALYSIS

| C | Mn | P | S | Si | Ni | Cr | Mo | Cu | Sn | Al |
|---|---|---|---|---|---|---|---|---|---|---|
| 0.42 | 0.85 | 0.006 | 0.021 | 0.24 | 0.10 | 1.00 | 0.16 | 0.22 | 0.008 | 0.023 |

| V | Nb |
|---|---|
| 0.002 | 0.002 |

GRAIN SIZE SPECIFICATION ASTM E112 FINE GRAIN 5-8

HARDNESS SPECIFICATION ASTM E10 AFTER Q&T

SURFACE
294.0

Anchor Rods

OK 1155

PAGE 1

We certify that these data are correct and in compliance with specified requirements.

Gerdau Monroe
3000 East Front Street
Monroe, MI 48161

Patrick Doyle
Patrick Doyle
Pat.Doyle@Gerdau.com
Quality Assurance Representative

CONTINUED ON PAGE 2

# KREHER STEEL COMPANY, LLC.

## Certificate of Mill Test Results

PLATTE ANCHOR BOLT CO.
HOT ROLLED ROUNDS 4140QT F1554/ GR105
2.0000 X 24'3"
PART NO.

PO/Rel 167799
I hereby certify that this data is correct as contained in the records of this company.
I hereby certify that no mercury came in contact with or no weld repair was done to this product while in our possession.
Attn:

SO 1 -347304-001 2Jul20
Pg 2/4

GERDAU

GERDAU SPECIAL STEEL NORTH AMERICA
5591 MORRILL ROAD
JACKSON, MICHIGAN 49201 USA

**CERTIFIED MATERIAL TEST REPORT**

| CUSTOMER ORDER NUMBER | CUSTOMER PART NUMBER | HEAT NUMBER | WORK ORDER NUMBER | DATE |
|---|---|---|---|---|
| 59616 | | 75079868 | 337764 101 | 5/12/20 |

240mm Bloom

REPORT TO

KREHER STEEL
1550 N 25TH AVE

MELROSE PARK , IL 60160

SHIP TO

KREHER - CUSTOMER PICK UP

**ORDERED**

| GRADE | SIZE | LENGTH |
|---|---|---|
| 4140QT | 2" RND | 24' 3" |

CUSTOMER SPECIFICATIONS
A29/A29M-16; A322-13; A193-19 GR B7; A434/A434M-18 CL BC;VD

HARDENABILITY SPECIFICATION ASTM A255/A304

THEORETICAL

| J1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 18 | 20 | 22 | 24 | 26 | 28 | 30 | 32 | 34 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 57 | 57 | 57 | 57 | 57 | 57 | 56 | 54 | 53 | 52 | 50 | 49 | 48 | 47 | 46 | 45 | 44 | 43 | 43 | 41 | 41 | 39 | 39 | 37 | |

MICROCLEANLINESS SPECIFICATION ASTM E45 METH A

| | A | | B | | C | | D | |
|---|---|---|---|---|---|---|---|---|
| | T | H | T | H | T | H | T | H |
| WORST CASE | 2.5 | 0.5 | 1.0 | 0.5 | 0.5 | 0.0 | 1.0 | 0.5 |

MACROSTRUCTURAL TEST PER - ASTM E381

PLATE I

| | S | R | C |
|---|---|---|---|
| FRONT | 1 | 1 | 1 |
| MIDDLE | 1 | 1 | 1 |
| BACK | 1 | 1 | 1 |

PHYSICALS SPECIFICATION ASTM E8/A370 AFTER Q&T

02.0 IN

TENSILE KSI YIELD KSI % ELONGATION REDUCTION OF AREA

Anchor Rods OK MSS

PAGE 2

We certify that these data are correct and in compliance with specified requirements.

Gerdau Monroe
3000 East Front Street
Monroe, MI 48161

Patrick Doyle
Patrick Doyle
Pat.Doyle@Gerdau.com
Quality Assurance Representative

CONTINUED ON PAGE 3

GERDAU

GERDAU SPECIAL STEEL NORTH AMERICA
5591 MORRILL ROAD
JACKSON, MICHIGAN 49201 USA

CERTIFIED MATERIAL TEST REPORT

| CUSTOMER ORDER NUMBER | CUSTOMER PART NUMBER | HEAT NUMBER | WORK ORDER NUMBER | DATE |
|---|---|---|---|---|
| 59616 | | 75079868 | 337764 101 | 5/12/20 |

240mm Bloom

REPORT TO

KREHER STEEL
1550 N 25TH AVE

MELROSE PARK , IL 60160

SHIP TO

KREHER - CUSTOMER PICK UP

ORDERED

| GRADE | SIZE | LENGTH |
|---|---|---|
| 4140QT | 2" RND | 24' 3" |

CUSTOMER SPECIFICATIONS
A29/A29M-16; A322-13; A193-19 GR B7; A434/A434M-18 CL BC;VD

| | | | |
|---|---|---|---|
| 148.0 | 136.0 | 21.0 | 60.0 |
| 147.0 | 135.0 | 20.7 | 61.0 |
| 148.0 | 135.0 | 21.5 | 61.0 |
| 146.0 | 131.0 | 22.4 | 60.0 |
| 148.0 | 135.0 | 20.1 | 57.0 |

DI CALCULATION SPECIFICATION CAT 1E0024

5.14

CHARPY IMPACT SPECIFICATION ASTM E23 AFTER Q&T

| TEMPERATURE | LONGITUDINAL F | TRANSVERSE F |
|---|---|---|
| 20- F | 56.0 | |
| 20- F | 58.0 | |
| 20- F | 58.0 | |

OK MSS

QUENCH TIME,TEMP,ME

| TREATMENT | TEMP F | TIME(MIN.) | MEDIA |
|---|---|---|---|
| AUSTENIZE | 1645 | 1.20 | |
| QUENCH | 0 | 0.00 | WATER |
| TEMPER | 1435 | 1.20 | |

Anchor Rods

PAGE 3

We certify that these data are correct and in compliance with specified requirements.

Gerdau Monroe
3000 East Front Street
Monroe, MI 48161

Patrick Doyle
Patrick Doyle
Pat.Doyle@Gerdau.com
Quality Assurance Representative

CONTINUED ON PAGE 4

# KREHER STEEL COMPANY, LLC.

PLATTE ANCHOR BOLT CO.
HOT ROLLED ROUNDS 4140QT F1554/ GR105
2.0000 X 24'3"
PART NO.

PO/Rel 167799
I hereby certify that this data is correct as contained in the records of this company.
I hereby certify that no mercury came in contact with or no weld repair was done to this product while in our possession
Attn:

## Certificate of Mill Test Results

SO 1 -347304-001 2Jul20
Pg 4/4

GERDAU

GERDAU SPECIAL STEEL NORTH AMERICA
5591 MORRILL ROAD
JACKSON, MICHIGAN 49201 USA

### CERTIFIED MATERIAL TEST REPORT

| CUSTOMER ORDER NUMBER | CUSTOMER PART NUMBER | HEAT NUMBER | WORK ORDER NUMBER | DATE |
|---|---|---|---|---|
| 59616 | | 75079868 | 337764 101 | 5/12/20 |

240mm Bloom

REPORT TO

KREHER STEEL
1550 N 25TH AVE

MELROSE PARK , IL 60160

SHIP TO

KREHER - CUSTOMER PICK UP

### ORDERED

| GRADE | SIZE | LENGTH |
|---|---|---|
| 4140QT | 2" RND | 24' 3" |

CUSTOMER SPECIFICATIONS
A29/A29M-16; A322-13; A193-19 GR B7; A434/A434M-18 CL BC;VD

REDUCTION RATIO

RATIO- 28.4 TO 1.0

EN 10204 (2004) 3.1; ASTM F1554-18 GRADE 105 SUPPLEMENT 4;
ASTM E381-17; ASTM A304-16; ASTM E45-18A; VACUUM DEGASSED
** MATERIAL 100% MELTED AND MANUFACTURED IN THE U.S.A. BY THE ELECTRIC ARC FURNACE AND CONTINUOUS CASTING METHOD. THE PRODUCT HAS NOT BEEN REPAIRED BY WELDING AND THIS MATERIAL HAS NOT BEEN EXPOSED TO MERCURY OR TO ANY OTHER METAL ALLOY THAT IS LIQUID AT AMBIENT TEMPERATURES DURING PROCESSING OR WHILE IN OUR POSSESSION. GERDAU MONITORS ALL INCOMING SCRAP AND ALL HEATS OF STEEL TO ENSURE THAT PRODUCTS SHIPPED ARE FREE OF RADIOACTIVE MATERIAL. MATERIAL IS 100% RECYCLABLE.

CL MISS

Anchor Rods

PAGE 4 OF 4

We certify that these data are correct and in compliance with specified requirements.

Gerdau Monroe
3000 East Front Street
Monroe, MI 48161

Patrick Doyle
Patrick Doyle
Pat.Doyle@Gerdau.com
Quality Assurance Representative

# UNYTITE INC.

INNOVATIVE FASTENING SYSTEMS

Unytite, Inc.
One Unytite Drive
Peru, IL 61354
Tel 815-224-2221
Fax 815-224-3434

# INSPECTION CERTIFICATE

**Job No:** 30518 **Job Information** **Certified Date:** 9/27/19

**Customer:** PLATTE ANCHOR BOLT

**Customer Part No:**

**Customer PO No:** 175078

**Lot Number:** 30518-75066011

**Ship To:** Denver, CO

**Shipped Qty:** 480

## Part Information

**Part No:** A563 2-4 5 +0.031 DH HHN HDG, Blue Dye

**Description:** ASTM A563 2"-4 5 +0.031 Heavy Hex Nut Grade DH Hot Dipped Galv

**Manufactured Quantity:** 1,108

## Applicable Specifications

| Specification | Amend | Specification | Amend |
|---|---|---|---|
| ASME B1 1 | 2003 | ASME B18 2 2 | 2015 |
| ASME B18 2 6 | 2011 | ASTM A563 | 2015 |
| ASTM F2329/F2329M | 2015 | ASTM F606/606M | 2016 |
| ASTM F812 | 2017 | | |

## Test Results

**Test No** 20614 **Test** A563 DH Mechanical Properties

| Description | Hardness (HRC) | Tempering Temp (800 degree F Min) | Proof Load (Pass ASTM Min LBS) | Shape & Dimension ASME B18.2.2 | Thread Precision ASME B18.1.1 | Visual ASTM F812 |
|---|---|---|---|---|---|---|
| Sample Inspection | 29 06 | 1,031 | 437,500 | Pass | Pass | Pass |

## Certified Chemical Analysis

| Heat No | Grade | Manufacturer |
|---|---|---|
| 75066011 | 1045 | Ohio Star Forge Co |

## Notes

All tests are in accordance with the latest revisions of the methods prescribed in the applicable SAE and ASTM Specifications

The samples tested conform the specifications as described/listed above and were manufactured free of mercury contamination and there is no welding performed in the production of the products No heats to which Bismuth, Selenium, Tellurium, or Lead was intentionally added have been used to produce products

The steel was melted and manufactured in the U.S.A and the product was manufactured and tested in the U S A

We certify that this data is true representation of information provided by the material supplier and our testing laboratory This certified material test report relates only to the items listed on this document and may not be reproduced except in full

OFFICIAL SEAL
JEAN E MARGHERIO
NOTARY PUBLIC - STATE OF ILLINOIS
MY COMMISSION EXPIRES 09/18/21

Thorsen, Chris - Supervisor Quality

9/27/19
Date



OK MSS

Anchor Rods

GERDAU

GERDAU SPECIAL STEEL NORTH AMERICA
5591 MORRILL ROAD
JACKSON, MICHIGAN 49201

# CERTIFIED MATERIAL TEST REPORT

| CUSTOMER ORDER NUMBER | CUSTOMER PART NUMBER | HEAT NUMBER | WORK ORDER NUMBER | DATE |
|---|---|---|---|---|
| P006688-1 | B1045SC55MM | 75066011<br>210mm Billet | 309497 101 | 4/28/17 |

REPORT TO

UNYTITE INC
ONE UNYTITE DRIVE

PERU , IL 61354-9710

SHIP TO

OHIO STAR FORGE

4000 MAHONING AVENUE NW

WARREN , OH 44483

## ORDERED

| GRADE | SIZE | LENGTH |
|---|---|---|
| 1045 | 55.MM RND | 29' 10 1/2" |

CUSTOMER SPECIFICATIONS

SAE 1045; ASTM E381-01; RMS 021 DATED 9/28/06

## CHEMICAL ANALYSIS

| C | Mn | P | S | Si | Ni | Cr | Mo | Cu | Sn | Al |
|---|---|---|---|---|---|---|---|---|---|---|
| 0.44 | 0.75 | 0.013 | 0.029 | 0.24 | 0.12 | 0.19 | 0.04 | 0.26 | 0.012 | 0.003 |

| V | Nb |
|---|---|
| 0.058 | 0.002 |

GRAIN SIZE SPECIFICATION ASTM E112 FINE GRAIN 5-8

MICROCLEANLINESS SPECIFICATION ASTM E45 METH A

| | A | | B | | C | | D | |
|---|---|---|---|---|---|---|---|---|
| | T | H | T | H | T | H | T | H |
| AVERAGE | 2.6 | 0.3 | 1.3 | 0.0 | 0.5 | 0.0 | 0.8 | 0.3 |

MACROSTRUCTURAL TEST PER ASTM E381

PLATE I

CK MS

| | S | R | C |
|---|---|---|---|
| FRONT | 1 | 1 | 1 |
| MIDDLE | 1 | 1 | 1 |

Nuts

PAGE 1

We certify that these data are correct and in compliance with specified requirements

**Gerdau Monroe**
3000 East Front Street
Monroe, MI 48161

Patrick Doyle
Patrick Doyle
Quality Assurance Representative

CONTINUED ON PAGE 2

GERDAU

GERDAU SPECIAL STEEL NORTH AMERICA
5591 MORRILL ROAD
JACKSON, MICHIGAN 49201

## CERTIFIED MATERIAL TEST REPORT

| CUSTOMER ORDER NUMBER | CUSTOMER PART NUMBER | HEAT NUMBER | WORK ORDER NUMBER | DATE |
|---|---|---|---|---|
| P006688-1 | B1045SC55MM | 75066011 | 309497 101 | 4/28/17 |

210mm Billet

REPORT TO

UNYTITE INC
ONE UNYTITE DRIVE

PERU , IL 61354-9710

SHIP TO

OHIO STAR FORGE

4000 MAHONING AVENUE NW

WARREN , OH 44483

### ORDERED

| GRADE | SIZE | LENGTH |
|---|---|---|
| 1045 | 55.MM RND | 29' 10 1/2" |

CUSTOMER SPECIFICATIONS

SAE 1045; ASTM E381-01; RMS 021 DATED 9/28/06

BACK 1 1 1

DECARB SPECIFICATION ASTM E1077

F TOTAL= 0.016

REDUCTION RATIO

RATIO= 18.5 TO 1.0

RESIDUAL MAX SPECIFICATION RMS 021

Ni+Cr = 0.3100

OK MSS

** MATERIAL 100% MELTED AND MANUFACTURED IN THE U.S.A. BY THE ELECTRIC ARC FURNACE AND CONTINUOUS CASTING METHOD. THE PRODUCT HAS NOT BEEN REPAIRED BY WELDING AND THIS MATERIAL HAS NOT BEEN EXPOSED TO MERCURY OR TO ANY OTHER METAL ALLOY THAT IS LIQUID AT AMBIENT TEMPERATURES DURING PROCESSING OR WHILE IN OUR POSSESSION.
GERDAU MONITORS ALL INCOMING SCRAP AND ALL HEATS OF STEEL TO ENSURE THAT PRODUCTS SHIPPED ARE FREE OF RADIOACTIVE MATERIAL.

Nuts



We certify that these data are correct and in compliance with specified requirements.

Gerdau Monroe
3000 East Front Street
Monroe, MI 48161

Patrick Doyle
Patrick Doyle
Quality Assurance Representative

# Universal Galvanizing, Inc.

510 E South 1ST St.
Wright City, Missouri 63390
Phone:(636)791-2016 Fax:(636)745-0667


Date: 8-20-19

RE: GALVANIZING CERTIFICATE
UNYTITE, INC.
PO# P008738

| QUANTITY | PART NUMBER/DESCRIPTION | LOT NUMBER | COATING THICKNESS |
|---|---|---|---|
| 135,317 PCS | M180 5/8-11+0.031 DOUBLE RECESS GUARD RAIL NUT | 31185-190519 | 3.4 AVG. MILS |
| 935 PCS | A325 1 ½-6 X 6 ½ HEAVY HEX BOLT | 30986-75076577 | 3.4 AVG. MILS |
| 174 PCS | A325 1 ½-6 X 7 ½ HEAVY HEX BOLT | 30988-75076577 | 3.4 AVG. MILS |
| 151 PCS | A325 1 ½-6 X 8 ½ HEAVY HEX BOLT | 30989-75076577 | 3.4 AVG. MILS |
| 2,392 PCS | A563 2-4.5+0.031 GRADE DH | 30518-75066011 | 3.4 AVG. MILS |

THIS WILL CERTIFY THAT THE MATERIAL GALVANIZED ON THE ABOVE JOB MEETS ASTM F2329 SPECIFICATIONS. THIS MATERIAL WAS GALVANIZED IN THE USA AT UNIVERSAL GALVANIZING INC IN WRIGHT CITY, MO AT A ZINC BATH TEMPERATURE OF 840° WITH A PLUS MINUS VARIANCE OF 5°. THE MATERIALS ITEMIZED IN THIS SHIPMENT ARE CERTIFIED TO BE IN COMPLIANCE WITH THE APPLICABLE ASTM STANDARDS AND THE IOWA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS, IMs AND MEET THE BUY AMERICA REQUIREMENTS AS DESCRIBED IN IM 107 FOR ALL STEEL, IRON PRODUCTS AND COATINGS.

OK MSS

Joseph Jokisch

Joseph Jokisch, Quality/ Shipping & Receiving

Nuts

Stamping The Future

Wrought Washer Mfg., Inc
1901 Chicory Road
Mount Pleasant, WI 53403

# Certificate Of Conformance

Date:
Certification To: Platte Anchor Bolt
4950 Jackson St.
Denver, CO 80216
USA

## Part Info

PO No Revision:
Customer Part No: 017375
Part Name: 2" F436 S MARK HDG
Quantity: 2,100
Supplier:
Master Unit No(s): M055530

Piece List:
Tracking No(s): t492506 mc2561125
Wrought Washer Mfg., Inc. Part No: 017375
Heat/Lot No(s): 101591
Shipper No: WW19208
Job No(s): 14777 ht orrder 9681

Customer Part Rev Level:
Customer PO No: 174961
Line No: 3
Revision:

| Supplier | Heat No | Attachment |
|---|---|---|
| Nucor Steel | 101591 | 101591 |

We hereby certify that the subject parts conform to the purchase order and any applicable specification indicated above. We further certify that all hardening and/or plating meet full purchase order specification requirements.

We hereby certify that all statutory requirements as to American Production and Labor Standards and all conditions of purchase applicable to the transaction have been complied with and that the subject parts were manufactured in the USA.

Washers

OK MSJ

Signature of Quality Director Date

Stamping The Future

Wrought Washer Mfg., Inc
2100 South Bay Street
Milwaukee, WI 53207
Tel 414-744-0771

# Material Certification

Customer: Platte Anchor Bolt
Ship To: Platte Anchor Bolt
Customer PO No: 174961
Wrought Washer Mfg., Inc. Order No: 17346
Order Line: 3
Wrought Washer Mfg., Inc. Part No: 017375
Customer Part No: 017375
Shipped Qty: 2,100
Heat: 101591
Heat Code: 101591
Grade: 1035
Note: Melted and rolled in the USA

| Material Specification Type | Material Specification | Actual |
|---|---|---|
| Chemistry | C | 0.35 % |
| | Mn | 0.85 % |
| | P | 0.008 % |
| | S | 0.002 % |
| | Si | 0.248 % |
| | Cu | 0.077 % |
| | Ni | 0.045 % |
| | Cr | 0.056 % |

We hereby certify that chemical analysis and/or physical characteristics shown are a true copy of original test reports on file with us from the producing source covering the heat or lot from which this material was taken.

Washer

OK MSS

# Inspection Report
## AZZ Galvanizing (Rockford)

Customer: WROUGHT WASHER MFG INC

AZZ Job #: 21050261
PO #: 017909
AZZ Order # : 480019900
Shipped Date: 05/24/2021

## QC Checklist

| Condition | Accepted |
|---|---|
| Smooth & Uniform | Y |
| No Damage | Y |
| No Tears & Spikes | Y |
| No Bare Areas | Y |
| No Blisters | Y |
| No Flux Deposits | Y |
| No Dross Inclusions | Y |
| Holes Clean | Y |
| Passes Thickness Test | Y |

## Readings

Elcometer Serial Number: E-456/4 WA05965
Total Readings: 41 Average: 3.73

| | | | |
|---|---|---|---|
| 5694 PCS | (3.750 OD - 2.125 ID - .187 THK) 2"S MARKWWIC#017375 WWIC#017375 SN#S1065207 JOB#14777 | Nbr of Readings: 41 | Average: 3.73 |

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2.51 | 4.01 | 4.09 | 4.36 | 2.83 | 3.27 | 3.74 | 3.92 | 4.81 | 4.70 | 3.31 | 4.06 | 4.00 | 4.86 |
| 3.08 | 2.55 | 4.11 | 4.67 | 4.15 | 4.41 | 3.77 | 3.18 | 3.66 | 5.60 | 4.13 | 4.13 | 4.45 | 3.16 | 5.00 |
| 2.48 | 2.60 | 4.08 | 2.27 | 3.15 | 2.76 | 2.78 | 3.82 | 4.06 | 5.50 | 2.56 | 2.39 | | |

WE CERTIFY THAT THE ABOVE SIZES AND LOT NUMBERS WERE GALVANIZED IN ROCKFORD, IL USA AND MEET SPECS ASTM A153 CLASS C.

WE CERTIFY THAT THE ABOVE SIZES & LOT'S COMPLY W/ THE COATING, WORKMANSHIP, FINISH & APPEARANCE OF ASTM F2329. THE GALVANIZING PROCESS WAS CONDUCTED IN A TEMPERATURE RANGE OF 830F TO 850F. THIS PRODUCT WAS GALVANIZED IN THE USA

OK MSS

Inspected By: Gutierrez, Aaron J Date: 05/21/2021

Washer

Standard Heat Treating, LLC

# Certification

Order No.: 239087
Date: 03/26/2021
Entry Date: 02/26/2021
Page: 1 of 1

**To:**
Wrought Washer Mfg., Inc
2100 South Bay Street

Milwaukee WI 53207

Purchase Order No.: 9681
Packing List No.:
Material: 1036

Standard Heat Treating certifies the listed results of inspection and testing to accurately reflect the processes performed and data obtained as a result of our heat treatment of the specified product.

| Quantity | Part Number / Part Name / Part Description | Pounds |
|---|---|---|
| 16,680 | 017376<br>Heat 872431,S882748,S882747 | 5980 |

| Insp. Type | Scale | Minimum | Maximum | Number | Other |
|---|---|---|---|---|---|
| **Customer Requirements:** | | | | | |
| Test | RC | 38. | 42. | | 38-42 HRC |

Austentized, Quenched and Tempered to obtain a hardness of 39-42 HRC

CK HSS

Washer

Processed in the USA.
Alternate signature may include James Perkne (Dir., Customer Service) or Efrain Santoyo (Dir., Production) or Walter Santoyo (Plant Manager).

John Christ
Quality Manager
Standard Heat Treating, LLC

5757 W Ogden Ave Cicero IL 60804
Phone: (708)447-7504 Fax: (708)780-5106

METALLURGICAL TESTING CERTIFICATION

K316570

NUCOR

Nucor Steel Indiana
4537 South Nucor Road
Crawfordsville, IN 47933-0907

Certificate Number: 906361
Date Issued: 12/04/2020



Customer Name: WROUGHT WASHER MFG INC
Customer Address: 2100 S BAY ST

MILWAUKEE WI 53207

Release Order:
Cust PO Number: 011181

Order Number: 336690 - 0008 HOT ROLLED PICKLED & OILED
Order Dimensions: 0.1790 in X 48.0000 in
HRPO,MILL,1035

SAE J403-14 1035
ASTM A568-17A

OK 5 M

| Coil Number | | TAIL |
|---|---|---|
| 2561125.000 | Rockwell B: | 88 |

Part Number
M842188-20 TONS
Weight: 42,920 LBS

CHEMICAL ANALYSIS

| Heat | Slab | C | Mn | P | S | Si | Cu | Sn | Ni | Cr | Mo | Al | N | V | Nb | Ti | B | Sb |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 101591 | 05 | 0.35 | 0.850 | 0.008 | 0.002 | 0.248 | 0.077 | 0.006 | 0.045 | 0.056 | 0.019 | 0.028 | 0.007 | 0.005 | 0.001 | 0.002 | <0.0005 | 0.001 |

Washers

WE HEREBY CERTIFY THE ABOVE IS CORRECT AS CONTAINED IN THE RECORDS OF THE CORPORATION
MELTED AND ROLLED IN THE USA

Eric E. Gong

QF-0261 04/01/2019

NUCOR QUALITY ASSURANCE

1-800-777-0950 MTR_IND_INQUIRIES@NUCOR.COM

# *General Letter of Compliance*

Date: February 12, 2021

Company: Platte Anchor Bolt
Address:
City, State, Zip: Denver, CO

Attn: Josh Winograd

AZZ Galvanizing Services processes material to comply in all respects with the following ASTM Specifications.

ASTM A 123/A 123M (Latest Version)

ASTM A 153/A 153M (Latest Version)

ASTM F2329/F2329M (Latest Version)

AZZ Galvanizing Services Processing Plant: Commerce City, CO

CK 1155

Blake Mitchell
Plant Manager
AZZ Galvanizing

Washers

RAINIER WELDING

19020 NE 84th Street
Redmond, WA 98053

# Purchase Order

**PO #: 3333-002**

19020 N.E. 84th Street
Redmond, WA 98053
Phone: 425-868-1300


10/20/2021 3:59:00 PM

| Order Date: | Ordered By: | F.O.B.: | Order Type: | Ship Via: | Terms: |
|---|---|---|---|---|---|
| 10/20/2021 | Tonya Kaschmitter | Destination | Regular | Truck/Common Carrier | Net 30 days |

Confirmed By: David Wax

Northwest Steel & Pipe, Inc
Attn: David Wax
P.O. Box 11247
Tacoma, WA 98411-0247
Phone: 253-473-8888
Fax: 253-473-2882

Ship To:
Rainier Welding
19020 NE 84th Street
Redmond, WA 98053
Phone: 425-868-1300

Bill To:
Rainier Welding
Bldg. #3
12441 Bartholomew
Anacortes, WA 98221
Phone: 425-868-1300

Melted & Manufactured in the USA

| | Qty | Dimensions | Length | Grade | Job # | Code | Weight | Unit Cost | Cost |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 1 | CO Burning Charge | | A36 | 21-3333 I-90 SR18 | | 0# | $130.00/Item | $130.00 |
| 2 | 2 | PL 1/2 x 30 | 3'-0 | A36 | 21-3333 I- USA 90 SR18 | | 306# | $1.24/Lb | $379.81 |
| 3 | 2 | PL 3/4 x 28 | 2'-10 | A36 | 21-3333 I- USA 90 SR18 | | 405# | $1.24/Lb | $502.11 |
| | | | | | | | 711# | | |

Hard Copy MTR's to accompany delivery
All MTR/Certs to be sent to: Certs@RainierWelding.com
All Invoices to be sent to: Accounting@RainierWelding.com

| | |
|---|---|
| Sub-Total: | $1,011.93 |
| Total Tax: | $0.00 |
| Total Price: | $1,011.93 |
| Terms Discount: | $0.00 |
| Total Less Terms Discount: | $1,011.93 |

Embed Plates

NUCOR®

NUCOR STEEL TUSCALOOSA, INC.

# MILL TEST CERTIFICATE

Nucor Steel Tuscaloosa, Inc.
1700 HOLT RD N.E.
Tuscaloosa, AL 35404-1000
800 800-8204
customerservice@nucortusk.com

| Load Number | Tally | Mill Order Number | PO NO \| Line NO | Part Number | Certificate Number | Prepared |
|---|---|---|---|---|---|---|
| R261213 | 00000000959781 | N-185791-018 | 16085 18 | | S95978101-1 | 11/24/2020 04:17 |

**Grade**

**Order Description:**
Hot Roll Plate From Coil
A572/A709, 0.7500 IN x 96.000 IN x 240.000 IN
**Quality Plan Description:**
A57250/A70950: ASTM A572-50-18/SA572-50/A709-50-18/M270-50

**Customer:**

**Sold TO:**
NORTHWEST STEEL AND PIPE Tacoma WA
**Ship TO:**
Northwest Steel & Pipe Tacoma WA
**Sent TO:**

| Shipped Item | Heat/Slab Number | Certified By | C | Mn | P | S | Si | Cu | Ni | Cr | Mo | Cb | V | Al | Ti | N2 | B | Ca | Sn | CEV | ACI |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| OK1531C | 20A3265-04 *** | 20A3265 | 0.05 | 1.18 | 0.013 | 0.003 | 0.06 | 0.22 | 0.06 | 0.09 | 0.023 | 0.004 | 0.049 | 0.036 | 0.002 | 0.009 | 0.0003 | 0.0031 | 0.009 | 0.30 | |
| OK1531D | 20A3265-04 *** | 20A3265 | 0.05 | 1.18 | 0.013 | 0.003 | 0.06 | 0.22 | 0.06 | 0.09 | 0.023 | 0.004 | 0.049 | 0.036 | 0.002 | 0.009 | 0.0003 | 0.0031 | 0.009 | 0.30 | |

| Shipped Item | Certified By | Heat/Slab Number | Yield ksi | Tensile ksi | Y/T % | ELONGATION % 2" | 8" | Bend OK? | Hard HB | Charpy Impacts (ft-lbs) Size | Loc | 1 | 2 | 3 | Avg | Shear % 1 | 2 | 3 | Avg | Test Temp |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| OK1531C | SOK1531FTT | 20A3265-04 *** | 53.4 | 67.0 | 79.7 | 44.3 | | | | | | | | | | | | | | |
| OK1531C | SOK1531MTT | 20A3265-04 *** | 59.0 | 65.4 | 90.2 | 39.5 | | | | | | | | | | | | | | |
| OK1531D | SOK1531FTT | 20A3265-04 *** | 53.4 | 67.0 | 79.7 | 44.3 | | | | | | | | | | | | | | |
| OK1531D | SOK1531MTT | 20A3265-04 *** | 59.0 | 65.4 | 90.2 | 39.5 | | | | | | | | | | | | | | |

**Items:** 2 **PCS:** 8 **Weight:** 39205 **LBS**

Embed Plates

Mercury has not come in contact with this product during the manufacturing process nor has any mercury been used by the manufacturing process. Certified in accordance with EN 10204 3.1. No weld repair has been performed on this material. Yield strength is determined by the 0.2% offset method unless otherwise noted. Manufactured to a fully killed fine grain practice.
NUTEMPER TEMPER PASSED plate from coil
ISO 9001:2015 Registered, PED Certified

"***" indicates Heats melted and Manufactured in the U.S.A.

We hereby certify that the product described above passed all of the tests required by the specifications.

Dr. Qiulin Yu - Metallurgist