



**Mill Test Reports**

**Pittsburgh, PA**

**HWY22MH003**

(114 pages)

# COSMEC, INC.

P.O. Box 307 — 70 South St., Walpole, Mass. 02081  
Tel: (617) 668-6600

## CERTIFICATE OF ANALYSIS

**CUSTOMER:**

Conn Construction Co.  
P O Box 431  
New Castle, Pa. 16103

**CUSTOMER'S ORDER NO.:** 378

**ITEM NO.:** 8896

**OUR ORDER NO.:** 38252

**HEAT NO.:** E 44

**SPECIFICATION:**

ASTM B22 Alloy D mod. w/up  
to 2.5% Pb req'd.

**PROJECT:** Pa. Hwy. Dept.

Rehabilitation of Forbes Ave. Bridge

CHEMICAL COMPOSITION

Copper..... **86.26**  
Tin..... **9.09**  
Lead..... **2.39**  
Zinc..... **1.68**  
Nickel..... **0.32**  
Iron..... **0.09**  
Antimony..... **0.08**  
Phosphorous..... **0.02**  
Aluminum..... **None**  
Manganese..... **None**  
Silicon..... **None**  
Sulfur..... **0.04**

PHYSICAL PROPERTIES

Tensile Strength ..... **48,600** p.s.i.  
Yield Strength ..... **22,000** p.s.i.  
Elongation in 2" ..... **53** %  
Brinell Hardness ( Kg).....  
Deformation Limit at 0.001" ..... **18,700** p.s.i.  
Permanent Set under 100,000 p.s.i. .... inch  
Max. Compression under 10,000 p.s.i. .... inch

4 Pls 14 x 1 1/2 x 24  
±.005 ±.005

Commonwealth of Massachusetts  
County of Norfolk

Subscribed and sworn to, before me,  
this **Fifth** day of **October** 19 **72**

  
Notary Public.

  
Chief Inspector

PURCHASE ORDER  
**Conn Construction Co.**  
*—Engineers and Contractors—*

Date April 20, 1972

Area Code 412, 654-6672

BOX 431 - NEW CASTLE, PENNSYLVANIA 16103

To U. S. Steel Corporation  
P. O. Box 208  
Pittsburgh, Pennsylvania

SHIP TO

Attention: Mr. R. G. Cefola

SHIP	VIA	F. O. B.	A/C NO.
QUANTITY	DESCRIPTION		

IN RE: Rehabilitation of Forbes Avenue Bridge  
over Fern Hollow and other work incidental  
thereto

- 28 pcs. 10" x 10" x 5/16 Tube x 36 ft. 7 in.
- 2 pcs. 10" x 10" x 5/16 tube x 36 ft. 5-3/4 in.
- 2 pcs. 10" x 10" x 5/16 tube x 36 ft. 8-5/16 in.

Physical characteristics of this material shall conform to  
ASTM -A618 Grade 1

Chemical characteristics of this material shall conform to  
ASTM A242.

Please furnish six (6) copies of chemical and physical  
test reports.

**CONN CONSTRUCTION CO.**

By \_\_\_\_\_  
PURCHASING AGENT



United States Steel Corporation

NATIONAL WORKS

STANDARD CERTIFIED TEST REPORT
TUBULAR PRODUCTS

9-29-72 DATE

MATERIAL STRUCTURAL HOLLOW TUBING

TREATMENT

CUSTOMER NAME: CONN CONSTRUCTION CO., ADDRESS, CITY AND STATE

GRADE: 1-ASTM A618, CUSTOMER'S ORDER NO.: 315, U.S. STEEL ORDER NO.: LA 64295, INVOICE NO.

Table with columns: ITEM NO., CODE OR LOT NO., SIZE O. D., WALL THICKNESS, BEND TEST, HEAT NUMBER, MECHANICAL PROPERTIES (YIELD STRENGTH, TENSILE STRENGTH, ELONG.), CHEMICAL ANALYSIS (%). Includes handwritten data for items 01, 02, and 03.

MET 4-1 REV. 369
USS CAT. NO. 8372.01
01.003.0242

We hereby certify that the above figures are correct, as contained in the records of the company

Handwritten signature: C. J. Spicer

Chief Metallurgist

**PURCHASE ORDER**  
**Conn Construction Co.**  
*—Engineers and Contractors—*

Date June 5, 1972

Area Code 412, 654-6672

BOX 431 - NEW CASTLE, PENNSYLVANIA 16103

To **D Bolt Co.**  
**1005 8th Avenue**  
**Glenshaw, Pa. 15116**

SHIP TO

Attn: Mr. George Tyman

SHIP	VIA	F. O. B.	A/C NO.
QUANTITY	DESCRIPTION		

IN RE: **Rehabilitation of Forbes Avenue Bridge**

16 Stud Bolts 7/8" Round x 1 ft. 3 in.  
 2 1/2" thd. one end  
 4" thd. one end

Material to meet or exceed ASTM A-325 for Hi strength bolts

Six copies of certification on material.

Customer truck your plant 9:00 A.M. June 6, 1972

**CONN CONSTRUCTION CO.**

By \_\_\_\_\_  
 PURCHASING AGENT



PURCHASE ORDER  
**Conn Construction Co.**  
*—Engineers and Contractors—*

Date June 28, 1942

Area Code 412, 654-6672

BOX 431 - NEW CASTLE, PENNSYLVANIA 16103

To **D-Folt Co.**  
 1005 5th Avenue  
 Glenham, Pa. 15116  
 Attention: Mr. Geo. Tyman

SHIP TO

SHIP	VIA	F. O. B.	A/C NO
------	-----	----------	--------

QUANTITY	DESCRIPTION
----------	-------------

IN RE: Forbes Ave. Bridge

72 Stud bolts 7/8" Round x 1 ft. 3 in.  
 2-1/2" end one end  
 4" end one end

material to meet or exceed ASTM A-325 for 1/2 strength bolts.

IN RE: West Virginia Dept. Highways  
 Bridge No. 2604

200 Galvanized Nuts for 1-1/4" Round Bolt.

Note-nuts will be galvanized so nut must have oversized tap.

Steel for galvanized nuts is to meet or exceed ASTM A-307 spec.

Please furnish certification on this item.

CONN CONSTRUCTION CO.

By [Signature]  
 PURCHASING AGENT *Complete*

Crucible SP 25 500 REV 4/71

Colt Industries



Crucible, Inc

ALLOY DIVISION, MIDLAND, PA. 15055

008

GRADE	PROD	MFG	CUSTOMER CODE	SHIPPED FROM	DATE SHIPPED	INSURANCE
24140207	C41	L7355C	QJ-MIDLAND PA	LE/17/1		

SOLD TO: **D-Bolt Company**  
 OF PENNSYLVANIA

SHIP TO: X

PENNSYLVANIA STATE COLLEGE, PA. 16801  
 CUSTOMER ORDER NO. 6163 04-26  
 OUR ORDER NO. 0P310851  
 DESCRIPTION: 100 HR HI MS SR ALY STL BARS A  
 151 4140 ASTM A158-62-T GR B7

HEAT NO	U	MN	P	S	SI	CA	MG
256324	.41	.82	.012	.118	.27	.51	.22

7/8 RD 1 1/2 IN

HEAT # 3256324  
 CILL # 7000  
 QUANTITY 1000  
 HARDNESS BHN 286  
 YIELD 127800  
 TENS. BND 144290  
 BOLT FAC ELONG 15.7  
 RA & CHAM 1700  
 63.8

SWORN TO AND SUBSCRIBED BEFORE ME

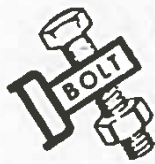
THE DAY OF \_\_\_\_\_ 19\_\_

Colt Industries  
**CERTIFICATE OF TEST**

ALL TEST RESULTS SHOWN IN THIS REPORT ARE CORRECT TO THE BEST OF OUR KNOWLEDGE AND BELIEF

COIT INDUSTRIES CRUCIBLE, INC  
 REPRESENTATIVE

BOLTS  
NUTS  
SCREWS



## D-Bolt Company

OF PENNSYLVANIA  
BOLTS NUTS SOCKETS SPECIALS  
1005 8TH AVENUE  
GLENSHAW, PA. 15116  
412-487-2010

WASHERS  
STUDS  
SPECIALS

### CERTIFICATION

CUSTOMER: **Conn Construction**

DATE: **July 7, 1972**

CUSTOMER ORDER #: **351**

D-BOLT #: **A 18802**

#### DESCRIPTION:

**Hex Nuts  
Hot Dip Galvanizing**

#### SPECIFICATION:

**A 307  
A 153**

We hereby certify that the above is correct and that all the parts and/or material furnished have been manufactured in accordance with applicable quality requirements. We also certify that all parts and/or material conform to the applicable drawings, specifications and conditions set forth on the purchase order as contained in the records of this company.

**D-Bolt Company  
of Pennsylvania**

**Kenneth R. Sacks**



BETHLEHEM STEEL CORPORATION  
 BETHLEHEM, PA. 18016

SHIPMENT NO. 409-5008

SALVAGE NO. 13-3868B\*

CUSTOMER CODES: 314  
 ORDER NO: 203940-00  
 QUANTITY: 13  
 WEIGHT: 16  
 PRICE: 3737  
 TOTAL: 00  
 TERMS: COLLECT

SOLD TO: CONN CONSTRUCTION CO  
 BOX 431  
 NEW CASTLE PA 16103

SHIP TO: CONN CONSTRUCTION CO  
 THEIR SIDING  
 NEW CASTLE PA

DATE SHIP: 5/18/72  
 ROUTE: B&O DEMLER PALE  
 SHIP FROM: SPARROWS POINT MD

RDG 31109 17 STEEL PLATES 146994

060-461

CUSTOMER & B.C. ORDER NOS. UNITS DESCRIPTION AND SIZE WEIGHT

HT# PCS

SHIPMENT 409-8485 DATED 5/18/72 IS CORRECTED 5/30/72

ADD FOLLOWING ITEM:

INSP (10560)  
 (20250034BD) MAYARI R-50 ASTM A588 GR B LONG  
 V NOTCH 15 FT LB AT 40 DEG F THICK & THINNEST  
 GA EA HT GAS CUT ENDS  
 MAX 5 TON LIFTS

(0750-256-091)

UR NO 168508

2(c) 422H7461 1 2-1/8X24X684 9883  
 57 FT

CHANGE TOTALS TO: 17 146994

FROM: 16 137111

SUBSCRIBED AND SWORN TO  
 BEFORE ME THIS 7 DAY OF  
 June 1972  
 Stanley S. Kowalsky  
 NOTARY PUBLIC

MY COMMISSION EXPIRES JULY 1, 1974

ADD  
 0750 256 091 9883

REPORT OF MECHANICAL AND CHEMICAL TESTS

Order No.	Spec. No.	Tensile	Elong.	Reduc.	Bends	C	Min	P	S	SI	CU	NI
422H7461	50000	87000	2 24		OK	.13	1.08	.020	.025	.29	.31	.33
						.58	.025					
LONGITUDINAL RPY V NOTCH IMPACT TEST TO MEET 15 FT LB AT PLUS 40 F.												
		#3	AVG.	TEST SIZE								
		10	18-1/3	10x10 MM								

J. J. [Signature]  
 CHIEF METALLURGIST

[Signature]  
 Per

BETHLEHEM STEEL CORPORATION  
BETHLEHEM, PA. 18016

SHIP NO. 409-8485  
13-3858B

CUST ORD 314  
SALE ORD 13-3858B

SOLD TO: CONN CONSTRUCTION CO  
SHEET 2

DATE SHIP: \_\_\_\_\_ SHIP FROM: \_\_\_\_\_

ROUTE: \_\_\_\_\_

CUSTOMER & BSC ORDER NOS.	UNITS	DESCRIPTION AND SIZE	WEIGHT
HT#	PCS		
INSP: (10560) (20250034BD) V NOTCH 15 FT AT 40 DEG F THICK & THINNEST GA EA HT GAS CUT ENDS MAX 5 TON LIFTS		MAYARI R-50 ASTM A588 GR B LONG	
UR# 168508		(0750-256-091)	
4(c) 422H3271	2	3-1/8X24X414 34FT 6IN	17592
	<u>16</u>		<u>137111</u>

SUBSCRIBED AND SWORN TO  
BEFORE ME THIS 6 DAY OF  
JUNE 1972  
Stanley J. Klover  
NOTARY PUBLIC

0750 256 091 137111

MY COMMISSION EXPIRES JULY 1, 1974

REPORT OF MECHANICAL AND CHEMICAL TESTS													
Heat No.	Thickness	Yield Point	Tensile	Elong.....%	Red.....%	Bends	C	Mn	P	S	SI	CU	NI
422H3271		57,000	82000	2 30		OK	.13 CR .54	1.04 V .026	.019	.028	.25	.27	.35
LONGITUDINAL CHARPY V NOTCH IMPACT TEST TO MEET 15 FT LB AT PLUS 40 F.													
422H3271		#1 30 40	#2 34 37	#3 11 35	AVG 25 37-1/3	TEST SIZE 10 x 10 MM "							

I certify the above results to be correct as in the record of the company.

J. J. Link  
CHIEF METALLURGIST

Per [Signature]

BETHLEHEM STEEL CORPORATION  
BETHLEHEM, PA. 18016

7  
SALE NO. 409-8485  
ORD 13-38688

CUST 314  
ORD 203940-00  
SHIP TO 1 13 16 3737 130 300  
COLLECT

TO: CONN CONSTRUCTION CO  
BOX 431  
NEW CASTLE PA 16103

SHIP TO: CONN CONSTRUCTION CO  
THEIR SIDING  
NEW CASTLE PA

DATE 5/18/72  
SHIP FROM SPARROWS POINT MD  
ROUTE B&O DEALER PGLE  
RDG 31109 16 STEEL PLATES 137111

060-461

CUSTOMER & BSC ORDER NOS. UNITS DESCRIPTION AND SIZE WEIGHT

HTir PCS

INSP: (10560)  
(20250034BD) MAYARI R-50 ASTM A588 GR B LONG  
V NOTCH 15 FT LB AT 40 DEG F THICK & THINNEST  
GA EA HT GAS CUT ENDS  
MAX 5 TON LIFTS  
(0750-256-091)

URir 168508

1(C)	422H2121	1	3-1/4X22X366 30FT 6IN	7414
2(P)	421H1431	2	2-1/8X24X684 57 FT	19766
2(P)	421H3431	1		9883
3(P)	412H8141	1	1-7/8X24X636 53FT	8108
3(P)	421H0261	1		8108
3(P)	421H1291	3		24324
3(C)	422H3271	3		24324
4(P)	421H1431	2	3-1/8X24X414 34FT 6IN	17592

SUBSCRIBED AND SWORN TO  
BEFORE ME THIS 6 DAY OF  
June 1972  
Notary Public

MY COMMISSION EXPIRES JULY 1, 1974

CONT ON SHT 2

REPORT OF MECHANICAL AND CHEMICAL TESTS

Heat No.	Thickness	Yield Point	Tensile	Elong. %	Red. %	Bends	C	Mn	P	S	SI	CU	NI
422H2121		67500	88500	2 26		OK	.13	1.16	.018	.022	.29	.29	.31
422H2121		62000	87500	2 29		OK	CR	V					
421H1431		55000	80000	2 30		OK	.59	.031					
421H1431		53000	74000	2 28		OK	.13	1.09	.018	.029	.28	.28	.33
421H3431		62500	90000	2 24		OK	.56	.026					
421H3431							.13	1.17	.018	.024	.27	.29	.31
412H8141		58000	82500	2 30		OK	.58	.028					
412H8141							.13	1.06	.017	.023	.27	.27	.29
421H0261		57500	79000	2 29		OK	.55	.023					
421H0261							.13	1.02	.017	.024	.27	.27	.33
421H0261							CR	V					
421H0261							.54	.024					

I certify the above results to be correct as in the record of the company.

Per: J. J. Lenth  
CHIEF METALLURGIST

**BETHLEHEM STEEL CORPORATION**  
BETHLEHEM, PA. 18016

SHIP NO. 409-8599

SALG ORD 3-3868A\*

CUST ORD 314  
 CODES 203940-00  
 SOLD TO 1 3 SHIP TO 13 16 3737 180 00 COLLECT

SOLD TO CONN CONSTRUCTION CO  
 BOX 431  
 NEW CASTLE PA 16103  
 SHIP TO CONN CONSTRUCTION CO  
 THEIR SIDING  
 NEW CASTLE PA

DATE SHPD 5/22/72 SHPD FROM SPARROWS POINT MD  
 ROUTE B&O DEMIER PLE

B&O 352501 8 STEEL PLATES OVER 102 IN WIDE 44716

160-4060

CUSTOMER & BSC ORDER NOS. UNITS DESCRIPTION AND SIZE WEIGHT

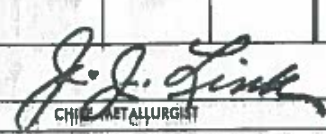
HT PCS  
 INSP: (10560)  
 (20250034BD) MAYARI R-50 ASTM A588 GR B LONG V  
 NOTCH 15 FT LB AT 40 DEG F THICK & THINNEST GA  
 EA HT MAX 5 TON LIFTS  
 (0861-256-101)

UR NO 127626

1(C)	422H2271	4	1/2 X 121 X 340	23308
			28 FT 4 IN	
2(C)	412H6921	4	7/16 X 127 X 340	21408
			28 FT 4 IN	
		8		44716

SUBSCRIBED AND SWORN TO  
 BEFORE ME THIS 30 DAY OF  
May 1972  
Franklin E. Peters  
 NOTARY PUBLIC

MY COMMISSION EXPIRES JULY 1, 1974

REPORT OF MECHANICAL AND CHEMICAL TESTS													
Heat No.	Thickness	Yield Point	Tensile	Elong.-%	Red.-%	Bends	C	Mn	P	S	SI	CU	NI
422H2271		62900	89400	8 19		OK	.13	.98	.009	.019	.24	.28	.28
422H2271		61000	81300	8 25		OK	CR	V					
							.51	.026					
412H6921		57000	81200	8 21		OK	.12	1.07	.018	.021	.27	.33	.32
412H6921		61200	82600	8 24		OK	CR	V					
							.55	.026					
LONGITUDINAL CHARPY V NOTCH IMPACT TEST TO MEET 15 FT LB AT PLUS 40 F.													
	#1	#2	#3	AVG.	TEST SIZE								
422H2271	80	73	66	77	10x10 MM								
"	45	50	41	45-1/3	10x10 MM								
412H6921	94	78	94	88-2/3	10x10 MM								
"	86	100	100	95-1/3	10x10 MM								
I certify the above results to be correct as in the record of the company.													
 J. J. Link CHIEF METALLURGIST													

40551 (Rev. 8-7-70)



BETHLEHEM STEEL CORPORATION  
METALLURGICAL DEPARTMENT  
**REPORT OF TESTS AND ANALYSIS**

ANT BURNS HARBOR SHIPMENT NO. 803-08535 DATE SHIPPED 05-24-72 CAR OR VEHICLE NO. PC YOUNGSTOWN PLE ATIX 470777 PAGE 1

CONN CONSTRUCTION CO  
BOX 431  
NEW CASTLE PA 16103  
CONN CONSTRUCTION CO  
THEIR SIDING  
NEW CASTLE PA

DESCRIPTION & SPECIFICATION CUSTOMER ORDER NO. BSCO ORDER NO.	SERIAL NUMBER	HEAT NUMBER	THICKNESS		SIZE & QUANTITY		LENGTH	WEIGHT	YIELD STRENGTH	TENSILE STRENGTH	ELONG. IN. %	BEND	HARDNESS Type Value	RED. % Value
			XXXX	XXXX	Width or Dia.	XXXXXX								
TEEL PLATES- MAYARI R-50 ASTM A588 GR B LONG V THINNEST GA EA HT														
D# 314 GH 013-3868		80IH11600	1	13/16	134	444	13695	64200	82600	8	19	OK		
FULL SIZE LONG V NOTCH CHARPY IMPACTS AT 40 DEG F OF 15 FT LBS		80IH12930	1	13/16	134	444	13695	18-32-27	71000	8"	26%	OK		
FULL SIZE LONG V NOTCH CHARPY IMPACTS AT 40 DEG F OF 15 FT LBS		80IH15770	1	13/16	134	444	13695	120-148-124	74200	8"	25%	OK		
FULL SIZE LONG V NOTCH CHARPY IMPACTS AT 40 DEG F OF 15 FT LBS		80E00400	1	13/16	134	444	13695	54200	74200	8"	21%	OK		
FULL SIZE LONG V NOTCH CHARPY IMPACTS AT 40 DEG F OF 15 FT LBS		80IH18600	4	3/8	115	1164	56884	61-76-89	78200	8"	21%	OK		
3/4 SIZE LONG V NOTCH CHARPY IMPACTS AT 40 DEG F OF 15 FT LBS								58400	80700	8	23	OK		

HEAT NUMBER	CHEMICAL ANALYSIS											MCQUAD-ENH GRAIN SIZE	
	C	Mn	P	S	SI	Cu	NI	Cr	Mo	V	TI		
01H11600	.12	.92	.005	.020	.22	.24	.34	.50		.03			
01H12930	.11	.85	.006	.017	.24	.26	.29	.55		.03			
01H15770	.11	.89	.008	.019	.21	.25	.29	.54		.02			
02E00400	.11	.89	.008	.028	.23	.28	.36	.50		.03			
01H18600	.12	.87	.005	.022	.24	.26	.48	.51		.03			

SUBSCRIBED AND SWORN TO BEFORE ME  
THIS 12th DAY OF June 1972  
*[Signature]*  
NOTARY PUBLIC  
PORTER COUNTY INDIANA  
MY COMMISSION EXPIRES JULY 31, 1972

I certify the above results to be correct as contained in the records of the Bethlehem Steel Corporation. *C. W. Roe* Per *[Signature]*

# CONN CONSTRUCTION CO.

*Engineers and Contractors*

AREA CODE 412 654-6672  
BOX 431 - NEW CASTLE, PENNSYLVANIA 16103

August 1, 1972

City of Pittsburgh  
City-County Building  
Room 618  
Department of Supplies  
Pittsburgh, Pennsylvania 15219

IN RE: Rehabilitation of Forbes Avenue  
Bridge over Fern Hollow and other  
work incidental thereto

Gentlemen:

We enclose herewith one (1) copy each of our Purchase  
Orders for subject project, with test report attached.

Very truly yours,

  
William F. Branscome, P. E.  
Vice President

bd

encl:

*An Equal Opportunity Employer*

**PURCHASE ORDER**  
**Conn Construction Co.**  
*—Engineers and Contractors—*

Date June 6, 1972

Area Code 412, 654-6672

BOX 431 - NEW CASTLE, PENNSYLVANIA 16103

To **B Bolt Co.**  
 1005 8th Avenue  
 Glenshaw, Pa. 15116

SHIP TO

Attn: Mr. George Tyman

SHIP	VIA	F. O. B.	A/C NO.
QUANTITY	DESCRIPTION		

IN RE: Rehabilitation of Forbes  
 Avenue Bridge

16 Stud Bolts 7/8" Round x 1 ft. 3 in.  
 2 1/2" thd. one end  
 4" thd. one end

Material to meet or exceed ASTM A-325 for H1 strength bolts

Six copies of certification on material.

Customer truck your plant 9:00 A.M. June 6, 1972

**CONN CONSTRUCTION CO.**

By \_\_\_\_\_  
 PURCHASING AGENT

**PURCHASE ORDER**  
**Conn Construction Co.**  
*—Engineers and Contractors—*

Date \_\_\_\_\_

Area Code 412, 654-6672

BOX 431 - NEW CASTLE, PENNSYLVANIA 16103

To

B-Bolt Co.  
 1005 8th Avenue  
 Glenshaw, Pa. 15116

SHIP TO

Attention: Mr. Geo. Tyman

SHIP	VIA	F. O. B.	A/C NO.
QUANTITY	DESCRIPTION		

IN RE: Forbes Ave. Bridge

72 Stud Bolts 7/8" Round x 1 ft. 3 in.  
 2-1/2" thd one end  
 4" thd one end

Material to meet or exceed ASTM A-325 for H1 strength bolts.

IN RE: West Virginia Dept. Highways  
 Bridge No. 2664

235 Galvanized Nuts for 1-1/4" Round Bolt.

Note-Bolts will be galvanized so nut must have oversized tap.

Steel for galvanized nuts is to meet or exceed ASTM A-307 spec.

Please furnish certification on this item.

**CONN CONSTRUCTION CO.**

By \_\_\_\_\_  
 PURCHASING AGENT



Crucible SF 25 500 REV 4/71

Coit Industries



Crucible, Inc

ALLOY DIVISION, MIDLAND, PA. 15055

C08

GRADE PROD MFG CUSTOMER CODE SHIPPED FROM DATE SHIPPED INSTRUCTIONS  
2414020 (C41C73550-C) MIDLAND PA (S/17/1)

SOLD TO:

D-Bolt Company  
OF PENNSYLVANIA

SHIP TO: X

PROJECT NUMBER: CRUCIBLE SPECIFICATIONS  
CUSTOMER ORDER NO: 6162 04-26  
SHIP ORDER NO: 0P110651

TOC FN H1 MS SH ALY STL BARS A  
ISI 4140 ASTM A192-C2-T GR B7

W							
A							
P							
E							
R							
S							
5							
4							
3							
2							
1							
0							

HEAT NO	C	MN	F	S	SI	CR	MG
256324	.41	.80	.012	.019	.27	.51	.22

7/0 RD 147 IN

HEAT #	COIL #	QUANTITY	GRAIN	HARDNESS	YIELD	TENS. BND	DUCTILE	LONG	EXGL	RA	CHAR	1700
3256324		700L		BHN 286	127800	144,000	LN	19.7		63.9		

SMOOTH AND SUBSCRIBED BEFORE USE

THIS DATE OF 19

NOTARY PUBLIC

Coit Industries



Crucible

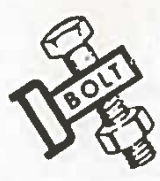
THE TEST RESULTS SHOWN IN THIS REPORT ARE CORRECT TO THE BEST OF OUR KNOWLEDGE AND BELIEF.

CERTIFICATE OF TEST

COIT INDUSTRIES CRUCIBLE, INC

SIGNED BY: [Signature]  
TESTER: [Signature]

BOLTS  
NUTS  
SCREWS



**D-Bolt Company**  
OF PENNSYLVANIA  
BOLTS NUTS SOCKETS SPECIALS  
1005 8TH AVENUE  
GLENSHAW, PA. 15116  
412-487-2010

WASHERS  
STUDS  
SPECIALS

CERTIFICATION

DATE: **July 7, 1972**

CUSTOMER: **Conn Construction**

CUSTOMER ORDER #: **351**

D-BOLT #: **A 18802**

DESCRIPTION:

**Hex Nuts  
Hot Dip Galvanizing**

SPECIFICATION:

**A 307  
A 153**

We hereby certify that the above is correct and that all the parts and/or material furnished have been manufactured in accordance with applicable quality requirements. We also certify that all parts and/or material conform to the applicable drawings, specifications and conditions set forth on the purchase order as contained in the records of this company.

D-Bolt Company  
of Pennsylvania

**Kenneth R. Sacks**

**PURCHASE ORDER**  
**Conn Construction Co.**  
*—Engineers and Contractors—*

Date March 27, 1972

Area Code 412, 654-6672

BOX 431 - NEW CASTLE, PENNSYLVANIA 16103

To United States Steel Corporation  
P. O. Box 208  
Pittsburgh, Pennsylvania  
Attention: Mr. R. Cefola

SHIP TO

SHIP	VIA	F. O. B.	A/C NO.
QUANTITY	DESCRIPTION		

IN RE: Reconstruction of Forbes Avenue Bridge over Fern Hollow and other work incidental thereto

- 4 P1 16 x 1-1/8 x 53 ft. 8 in.
- 4 P1 16 x 1-3/4 x 52 ft. 6 in.
- 26 P1 16 x 1-3/4 x 53 ft. 8 in.
- 1 P1 24 x 2-1/2 x 48 ft. 0 in.
- 4 P1 24 x 2-1/2 x 51 ft. 6 in.
- 4 P1 24 x 2-1/2 x 55 ft. 0 in.
  
- 15 P1 56 x 3/8 x 53 ft. 8 in.
- 2 P1 56 x 3/8 x 65 ft. 0 in.
- 2 P1 80 x 13/16 x 21 ft. 8 in.
- 2 P1 88 x 1/2 x 25 ft. 0 in.
- 2 P1 122 x 11/16 x 24 ft. 6 in.
  
- 35 Bars 4 x 7/16 x 30 ft. 0 in.
- 95 Bars 4 x 3/8 x 21 ft. 0 in.
  
- 7 pcs. 21" WF (55#) x 66 ft. 5 in.
- 14 pcs. 21" WF (55#) x 72 ft. 1 in.
- 14 pcs. 21" WF (55#) x 55 ft. 5 in.
- 14 pcs. 21" WF (62#) x 60 ft. 10 in.
  
- 3 pcs. 12" WF (40#) x 26 ft. 4 in.
- 24 pcs. 12" Channel (25#) x 26 ft. 4 in.
- No camber required in beams
  
- 4 P1 42 x 7 x 3 ft. 6 in.

All material ASTM A-588. Six copies chemical and physical test reports required. PLEASE NOTE ENCLOSED TEST REQUIREMENTS

**CONN CONSTRUCTION CO.**

By \_\_\_\_\_  
PURCHASING AGENT



PRODUCTION DEPARTMENT - METALLURGICAL  
**United States Steel Corporation**

TEST REPORT OF \_\_\_\_\_ PLATES

WORKS HOMESTEAD DISTRICT U.S.S. ORDER NO. LA60825 LOAD TALLY OR INVOICE NO. 163-51436

CUSTOMER ORDER NO. 299 3/27/72

CAR OR TRUCK NO. C194608 SHIPPER NO. & DATE 16850 6/26/72 100

CONN CONSTRUCTION CO  
P O BOX 431  
NEW CASTLE PA 16103

CONN FAB & ENGR CO SIDING  
P O BOX 431  
INDUSTRIAL STREET  
NEW CASTLE PA

USS-CUR-TEN-B-ASTM-A-598-71-GRADE-A-CHRPY-IMP-V-NTGH-LONG-M-TESTS-  
15FT/LBS-AT-PLUS-40-DEG-F-FOR-HEAT-LOT-QUAL-PER-ASTM-A-370-PAR-19

HILL CERT T/R LADLE TEST RESULTS PER SPEC 1 T/R TO RD WEBB

WE HEREBY CERTIFY THAT THE CHEMICAL ANALYSIS AND/OR TESTS SHOWN ARE CORRECT AND OBTAINED IN THE RECORDS OF THE COMPANY.

SIGNATURE M. W. HAXSON, CH. MET.

DATE 06/27/72

ITEM NO.	HEAT NO.	TEST OR PIECE IDENTITY NO.	NO. PCS.	THICKNESS OR SECTION	MATERIAL DESCRIPTION		WEIGHT	YIELD PT. PSI.	TENSILE STR. PSI.	ELONGATION %		% RED. OF AREA	BRIQ. NO.
					WIDTH, DIA. OR FT. WT.	LENGTH				IN 8"	IN 2"		
10	74C184		2	1/2	88	300	7480	61100	86800	22.0	21.0		B
Full Size Longitudinal V Notch Charpy Impact Test 10 X 10MM Made at plus 40 Deg. F.													
*HYIFLN POINT @ .0050 FYI.													

SPECIMEN SIZE TESTED ACCORDING TO COMPANY RECORDS CONFORMS TO THE REQUIREMENTS OF THE SPECIFICATION LISTED ABOVE

\* B OR H INDICATE COMPLIANCE OF BEND OR HOMO TESTS, RESPECTIVELY

HEAT NO.	TYPE	C	Mn	P	S	SI	Cu	NI	Cr	Mo	Sn	Al	N	V	B	TI	CD	CO
74C184	LADL	15	115	010	026	23	29	109	156			103		103				



Test Report of BARS

FILE NO. T03598

JUNE 22nd 1972

Product Description/Specification BOP STEEL HR HI STRENGTH BARS USS COR TEN B ASTM A-588-71 GRADE A

Charged to CONN CONSTRUCTION COMPANY NEW CASTLE PA.

Shipped to CONN FAB. & ENGR. CO. NEW CASTLE PA.

Customer's Order No. and Date 299 3/27/72

Mill Order No. LA 60826

Heat No. B53900

SIZE 4X7/16" BAR

ORDERED 4X3/8" BAR

ANALYSIS

C Mn P S SI CR CU

.17 1.07 .013 .018 .22 .55 .28

.16 1.12 .010 .020 .21 .56 .27

Test Piece Cut From

Yield Point lbs. per sq. in.

Tensile Strength lbs. per sq. in.

Elong. in 8"

Red. of Area %

Bend Test

RESULTS FT. LBS.

SPECIMEN SIZE

4 X 7/16" BAR

10mm X 10mm

5 X 3/8" BAR

10mm X 7.5mm

150 150 175

128 68 74

OK OK OK

OK

We hereby certify that the above figures are correct as contained in the records of the company

A. J. RAGAN

CHIEF METALLURGIST

BY *[Signature]*



PRODUCTION DEPARTMENT - METALLURGICAL

# United States Steel Corporation

PLATES

TEST REPORT OF

WORKS **HONESTEAD DISTRICT**

U.S. ORDER NO. **LA60825**

LOAD TALLY OR INVOICE NO. **163-57330**

CUSTOMER ORDER NO. **299 3/27/72**

SHIPPER NO. & DATE **96349 7/20/72**

CAR OR TRUCK NO. **CJ94608 PA**

SHIP TO **CONN FAB & ENGR CO SIDING  
PALM RR  
INDUSTRIAL STREET  
NEW CASTLE PA**

SOLD TO **CONN CONSTRUCTION CO  
P O BOX 431  
NEW CASTLE PA 16103**

INSPECTION T/R **WLL CERT T/R LAULE TEST RESULTS PER SPEC 1 T/R TO RD WEBB**

010139

WE HEREBY CERTIFY THAT THE CHEMICAL ANALYSIS AND/OR TESTS SHOWN IN THIS REPORT ARE CORRECT AND OBTAINED IN THE RECORDS OF THE COMPANY.

SIGNATURE **M.W. MAXSON, CH. MET.**

DATE **07/21/72**

0610

ITEM NO.	HEAT NO.	TEST OR PIECE IDENTITY NO.	NO. PCS.	THICKNESS OR SECTION	MATERIAL DESCRIPTION			WEIGHT	YIELD ST. PSI	TENSILE STR. PSI	ELONGATION %		% RED. OF AREA	BRIQUETTES
					WIDTH, DIA. OR FT. WT.	LENGTH								
02	70C150		1	1 3/4	16	630	4997	* 57200	64500	23.0			B	
		Full Size Longitudinal												
		V Notch Charpy Impact Tests 10												
03	70C150		1	1 3/4	16	644	5108	* 57200	64500	23.0			B	
		Full Size Longitudinal												
		V Notch Charpy Impact Tests 10												
		10 x 10 ksi Made at Pipe 40 Deg F.												
		10 x 10 ksi Made at Pipe 40 Deg F.												

\* YIELD POINT @ .0050 IN.T.

\* B OR H INDICATE COMPLIANCE OF BEND OR HOMO TESTS, RESPECTIVELY

SPECIMEN SIZE TESTED ACCORDING TO COMPANY RECORDS CONFORMS TO THE REQUIREMENTS OF THE SPECIFICATION LISTED ABOVE

CHEMICAL ANALYSIS															
HEAT NO.	TYPE	MS	SI	CU	NI	C	NO	SN	AL	N	V	B	TI	CD	CO
70C150	LAUL	F5	108	013	022	22	30	17	53						



# United States Steel Corporation

PLATES

TEST REPORT OF

WORKS HONESTEAD DISTRICT U.S. ORDER NO. LA60825 LOAD TALLY OR INVOICE NO. 163-55229

CUSTOMER ORDER NO. 299 3/27/72

CAR OR TRUCK NO. CJ946CA SHIPPER NO. & DATE 96290 7/12/72 4R

CONN CONSTRUCTION CO  
P O BOX 431  
NEW CASTLE PA 16103

CONN FAR & ENGR CO SIDING  
P O BOX 431  
INDUSTRIAL STREET  
NEW CASTLE PA

USS-COR-TEMP-ASTM-A-588-71-GRADE-A-CHARPY-IMP-V-NOTCH-LONG-W-TTESTS-  
15FT/LBS-AT-PLUS-40-DEG-F-FOR-HEAT-LOT-EQUAL-PER-ASTM-A-370-PAR-19

MILL CERT T/R LADLE TEST RESULTS PER SPEC 1 T/R TO RD 010139

WE HEREBY CERTIFY  
THAT THE CHEMICAL ANALYSIS  
AND/OR TESTS SHOWN IN THIS  
REPORT ARE CORRECT AS CON-  
TAINED IN THE RECORDS OF  
THE COMPANY.

SIGNATURE K. MAXSON, CH. MET.

0410

DATE 07/13/72

ITEM NO.	HEAT NO.	TEST OR PIECE IDENTITY NO.	MATERIAL DESCRIPTION		WEIGHT	YIELD PT. PSI.	TENSILE STR. PSI.	ELONGATION %		% RED OF AREA	B I L I O
			NO. PCS.	THICKNESS OR SECTION				WIDTH, DIA. OR FT. WT.	LENGTH		
02	70C150		2	1 3/4	16	67700	89400	24.0	23.0	8	
03	70C150		2	1 3/4	16	67700	88400	24.0	23.0	8	

\* KIELN POINT @ .0050 FXT.

\* B OR H INDICATE COMPLIANCE OF BEND OR HOMO TESTS, RESPECTIVELY

HEAT NO.	TYPE	C	Mn	P	S	SI	Cu	Ni	C	Mo	Sn	Al	N	V	B	Ti	Ch	Co
70C150	LADLE	NS	108	013	022	22	30	17	63			73		05				



# United States Steel Corporation

PRODUCTION DEPARTMENT - METALLURGICAL

TEST REPORT OF \_\_\_\_\_ PLATES

WORKS HOMESTEAD DISTRICT U.S. ORDER NO. LA60825 LOAD TALLY OR INVOICE NO. 163-51437

CUSTOMER ORDER NO. 299 3/27/72

CAR OR TRUCK NO. CJL608 SHIPPER NO. & DATE 47172 6/26/72 160

CONN CONSTRUCTION CO  
P O BOX 431  
NEW CASTLE PA 16103

CONN FAB & ENGR CO SIDING  
PALE RR  
INDUSTRIAL STREET  
NEW CASTLE PA

USS-COR-TEMP-B-ASTM-A-588-71-GRADE-A-CHARPY-IMP-V-NOTCH-LONG-TESTS-  
15FT/LBS-AT-PLUS-40-DEG-F-FOR-HEAT-LOT-EQUAL-PER-ASTM-A-370-PAR-19

MILL CERT T/R LADLE TEST RESULTS PER SPEC I T/R TO RD WEBB

010139

WE HEREBY CERTIFY THAT THE CHEMICAL ANALYSIS AND FOR THE TESTS SHOWN IN THIS REPORT ARE CORRECT AS OBTAINED IN THE RECORDS OF THE COMPANY.

SIGNATURE: M. W. MAXSON, CH. MFT.

0610

DATE 06/27/72

ITEM NO.	HEAT NO.	TEST OR PIECE IDENTITY NO.	NO. PCS.	THICKNESS OR SECTION	MATERIAL DESCRIPTION		WEIGHT	YIELD ST. PSI.	TENSILE STR. PSI.	ELONGATION %		% RED. OF AREA	BIRMINGHAM #
					WIDTH, DIA. OR FT. WT.	LENGTH				IN 8"	IN 2"		
09	74C184		2	13/16	80	260	9576	* 59200 * 58300	86100 82700	23.0 23.0			B
		Full Size	Longitudinal V Notch	Charpy Impact Test	10 X 10MM Made at plus	40 Deg. F.							
		Full Size	Longitudinal V Notch	Charpy Impact Test	10 X 10MM Made at plus	40 Deg. F.							
11	74C184		2	11/16	122	294	13972	* 59200 * 58300	86100 82700	23.0 23.0			B
		Full Size	Longitudinal V Notch	Charpy Impact Test	10 X 10MM Made at plus	40 Deg. F.							

\*YIELD POINT @ 0050 EXT.

PICMIN SIZE TESTED ACCORDING TO COMPANY RECORDS CONFORMS TO THE REQUIREMENTS OF THE SPECIFICATION LISTED ABOVE

\* B OR H INDICATE COMPLIANCE OF BRAND OR HOMO TESTS, RESPECTIVELY

HEAT NO.	TYPE	AS	MS	P	S	SI	CU	NI	CR	MO	SN	AL	N	V	B	TI	CB	CO
74C104	A11L	15	115	110	026	23	29	09	56			03		03				





# United States Steel Corporation

PLATES

TEST REPORT OF:

WORKS HOPESTEAD DISTRICT U.S. ORDER NO. LA61025 LOAD TALLY OR INVOICE NO. 163-51438

CUSTOMER ORDER NO. 299 3/27/72

CAR OR TRUCK NO. CJ94609 SHIPPER NO. & DATE 96191 6/26/72 48

CONN CONSTRUCTION CO  
P O BOX 431  
NEW CASTLE PA 16103

CONN FAB & ENGR CO SIDING  
P O BOX 431  
NEW CASTLE PA

USS-COR-TEN-B-ASTM-A-588-71-GRADE-A-CHRY-IMP-V-NICH-LONG-TESTS-  
15FT/LBS-AT-PLUS-40-DEG-F-FOR-HEAT-LOT-QUAL-PER-ASTM-A-370-PAR-19

MILL CERT T/R LADLE TEST RESULTS PER SPEC 1 T/R TO RD WEBB

DATE 06/27/72  
SIGNATURE H. W. MAXSON, CH. MGT.  
THAT THE CHEMICAL ANALYSIS AND/OR TESTS SHOWN IN THIS REPORT ARE CORRECT AS TAILED IN THE RECORDS OF THE COMPANY.

ITEM NO.	HEAT NO.	TEST OR PIECE IDENTITY NO.	MATERIAL DESCRIPTION		WEIGHT	YIELD ST. PSI.	TENSILE STR. PSI.	ELONGATION %		% REDUCED AREA	BRIQUETTES
			THICKNESS OR SECTION	WIDTH, DIA. OR FT. WT.				IN 2"	IN 4"		
06	670262		4	2 1/2	24	660	44876	* 63900	94900	26.0	3
		Full Size	Longitudinal V Notch	Charpy Impact Test	10 X 10MM	Made at plus	40 Deg.	50-68-64 Ft. Lbs.			

\*YIELD POINT @ .0050 FXT.

\* B OR H INDICATE COMPLIANCE OR BRAND OR HOMO TESTS, RESPECTIVELY

HEAT NO.	TYPE	C	AM	P	S	SI	Cu	NI	Cr	Mo	5n	Al	N	V	B	Ti	Co
670262	LADLE	17	118	010	020	24	34	17	56			04		06			



# United States Steel Corporation

TEST REPORT OF PLATES

WORKS HOMESTEAD DISTRICT U.S. ORDER NO. 1461825 LOAD TALLY OR INVOICE NO. 163-55228

CUSTOMER ORDER NO. 299 3/27/72

CAR OR TRUCK NO. G191609 SHIPPER NO. & DATE 96289 7/12/72 AR

SOLD TO  
**CONN CONSTRUCTION CO**  
 P O BOX 431  
 NEW CASTLE PA 16103

OR BY  
**CONN FAR & ENGR CO SIDING**  
 215 E INDUSTRIAL STREET  
 NEW CASTLE PA

SPEC.  
**USS-COR-TEMP-B-ASTM-A-588-71-GRADE-A-CHARPY-IMP-V-NOTCH-LONG-T-TESTS-15FT/LBS-AT-PLUS-40-DEG-F-FOR-HEAT-LOT-QUAL-PER-ASTM-A-370-PAR-19**

INSPECTION T/R  
**MILL CERT T/R LADLE TEST RESULTS PER SPEC 1 T/R TO PD FEB**

WE HEREBY CERTIFY THAT THE CHEMICAL ANALYSIS AND/OR TESTS SHOWN IN THIS REPORT ARE CORRECT AS OBTAINED IN THE RECORDS OF THE COMPANY.

SIGNATURE W. HANSON, CH. MGT.

DATE 07/13/72

ITEM NO.	HEAT NO.	TEST OR PIECE IDENTITY NO.	MATERIAL DESCRIPTION		WEIGHT	YIELD ST. PSI.	TENSILE STR. PSI.	ELONGATION %		% RED OF AREA	BRIELLYN	
			NO. PCS.	THICKNESS OR SECTION				WIDTH, DIA. OR FT. WT.	LENGTH			IN 8"
01	70C150		4	1 1/8	16	644	13136	* 67700	88400	24.0	23.0	B
	Full Size	Longitudinal V		Charpy Impact Test	10x10in	Made @ Plus	40 Deg. F.	54-42-53 Ft. Lbs.				
04	67C262		1	2 1/2	24	576	9791	* 63900	94900	26.0	26.0	B
	Full Size	Longitudinal V		Charpy Impact Test	10x10in	Made @ Plus	40 Deg. F.	50-68-64 Ft. Lbs.				

\* YIELD POINT @ 0.0050 EXT.

\* B OR H INDICATE COMPLIANCE OF BRAND OR HOMO TESTS, RESPECTIVELY

CHEMICAL ANALYSIS

HEAT NO.	TYPE	C	Mn	P	S	Si	Cu	Ni	Cr	Mo	Sn	Al	N	V	B	Ti	Ca
70C150	LADLE	115	1108	013	022	22	31	117	53			03		05			
67C262	LADLE	117	118	010	020	24	34	117	56			04					



PRODUCTION DEPARTMENT - METALLURGICAL  
**United States Steel Corporation**  
 PLATES

TEST REPORT OF

WORKS **HOMESTEAD DISTRICT**

U.S. ORDER NO. **LA60828**

LOAD TALLY OR INVOICE NO. **163-51439**

CUSTOMER ORDER NO. **299 3/27/72**

CAR OR TRUCK NO. **CJ94608**

SHIPPER NO. & DATE **96193 6/26/72**

**48**

SHIP TO  
**CONN FAB & ENGR CO SIDING  
 PALE RR  
 INDUSTRIAL STREET  
 NEW CASTLE PA**

**CONN CONSTRUCTION CO  
 P O BOX 431  
 NEW CASTLE PA 16103**

**USS-COR-TEN-8-STEEL-A578-A588-71-GRADE-A**

**HILL CERT 1/R LAUL TEST RESULTS PER SPEC**

WE HEREBY CERTIFY  
 THAT THE CHEMICAL ANALYSIS  
 AND/OR TESTS SHOWN IN THIS  
 REPORT ARE CORRECT AS OF  
 THE RECORDS OF THE COMPANY.

SIGNATURE **M. W. MAXSON, CH. MFT.**

DATE **06/27/72**

**0609**

**009047**

ITEM NO.	HEAT NO.	TEST OR PIECE IDENTITY NO.	NO. PCS.	THICKNESS OR SECTION	MATERIAL DESCRIPTION			WEIGHT	YIELD PT. PSI.	TENSILE STR. PSI.	ELONGATION %		% RED. OF AREA	BENDING
					WIDTH, DIA. OR FT. WT.	LENGTH					IN 8"	IN 2"		
20	72G304		4	7.0000	42	42	13992	53200 58200	65500 65300	29.0	27.0		B	
<b>*YIELD POINT @ .0050 EXT.</b>														

SPECIMEN SIZE TESTED ACCORDING TO COMPANY RECORDS CONFORMS TO THE REQUIREMENTS OF THE SPECIFICATION LISTED ABOVE

\* B OR H INDICATE COMPLIANCE OF BEND OR HOMO TESTS, RESPECTIVELY

CHEMICAL ANALYSIS

HEAT NO.	TYPE	C	Mn	P	S	SI	CU	NI	CR	Mo	Sn	Al	N	V	B	Ti	CS	Co
72G304	LAUL 16		106	008	018	22	29	17	58			03		06				



TEST REPORT OF \_\_\_\_\_ SHAPES \_\_\_\_\_

WORKS PUNESTEAD DISTRICT U.S.S. ORDER NO. LA60627 LOAD TALLY OR INVOICE NO. 163-50900

CUSTOMER ORDER NO. 299-3/27/72

CAR OR TRUCK NO. PA 6J946D SHIPPER NO. & DATE 3589 6/23/72

SOLD TO  
**CONN CONSTRUCTION CO**  
 P O BOX 431  
 NEW CASTLE PA 16103

OR SEE  
**CONN FAB & ENGR CO SIDING**  
 P O BOX 111  
 INDUSTRIAL STREET  
 NEW CASTLE PA

SPEC  
**USS COR-TEMP-STEEL-ASTM-A568-71-GRADE-A-37F-IMPACT-V-HOTCH-48**  
**NG-FOR-HEAT-PUT-QUALIFICATION-T0-ASTM-A-37F-68-15-F-PLS-6-PLUS-48**  
**DEG-F**

INSPECTION T/R  
**MILL CERT T/R LADLE TEST RESULTS PER SPEC 1 T/R TO RD WEBB**

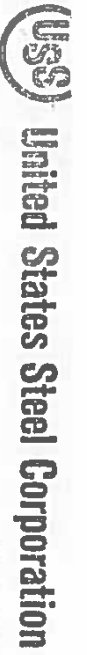
DATE 6/24/72  
 SIGNATURE W. HAYSON, CH. VET.  
 I HEREBY CERTIFY THAT THE CHEMICAL ANALYSIS AND TESTS SHOWN HEREIN WERE OBTAINED IN ACCORDANCE WITH THE COMPANY'S RECORDS.

ITEM NO.	HEAT NO.	TEST OR PIECE IDENTIFY NO.	MATERIAL DESCRIPTION				WEIGHT	YIELD PT. PSI.	TENSILE STR. PSI.	ELONGATION %		% RED. OF AREA
			NO. PCS.	THICKNESS OR SECTION	WIDTH DIA. OR FT. WT.	LENGTH				IN 8"	IN 2"	
18	73C143		8	W12X40	26"04.00	8424	* 70500	88000	21.0		B	
				Half Size Longitudinal V Notch Charpy Impact Test 5 X 10 MM Made at Plus 40 Deg. F.					32-37-35 Ft. Lbs.			
19	71C237		8	C12X25	26"04.00	5264	*60400	80500	23.0		B	
				3/4 Size Longitudinal V Notch Charpy Impact Test 7.5 X 10 MM Made at Plus 40 Deg. F.					69-54-84 Ft. Lbs.			
19	74C184		16	C12X25	26"04.00	10528	* 63300	87400	23.0		B	
				3/4 Size Longitudinal V Notch Charpy Impact Test 7.5 X 10 MM Made at Plus 40 Deg. F.					50-51-48 Ft. Lbs.			

\* B OR H INDICATE COMPLIANCE OF BRAND OR HOMO TESTS, RESPECTIVELY

CHEMICAL ANALYSIS

HEAT NO.	TYPE	C	Mn	P	S	SI	Cu	Ni	Cr	Mo	Sn	Al	N	V	B	Ti	Co	Co
73C143	LADLE	116	113	012	023	23	31	17	56			03		03				
71C237	LADLE	115	112	014	024	20	31	19	56			03		03				
74C184	LADLE	115	115	010	026	23	29	19	56			03		03				



TEST REPORT OF \_\_\_\_\_ PLATES \_\_\_\_\_

WORKS HOT-STEEL DISTRICT U.S. ORDER NO. 1460525 LOAD TALLY OR \_\_\_\_\_

CUSTOMER ORDER NO. 99 3/27/72 INVOICE NO. 163-50001

CAR OR TRUCK NO. CJ94619 SHIPPER NO. & DATE 96176 6/23/72 49

SOLD TO  
 CORN CONSTRUCTION CO  
 P O BOX 431  
 NEW CASTLE PA 16103

SHIP TO  
 CORN FAB & ENGR CO SIDING  
 PALE RR  
 INDUSTRIAL STREET  
 NEW CASTLE PA

SPEC. USS-COR-TECH-B-PLAST-WO-A-588-71-GRABE-4-CORRY-IMPEN-ASTH-AN-390-TESTS-  
15FT/LBS-AT-PLUS-40-DEG-F-FOR-HEAT-LOT-QUAL-IMPEN-ASTH-AN-390-PAR-19-

INSPECTION T/R MILL CERT T/R LAWLE TEST RESULTS PER SPEC 1 T/R TO RD REBB

WE HEREBY CERTIFY  
 THAT THE CHEMICAL ANALYSIS  
 REPORTED IN THESE RECORDS  
 WERE OBTAINED IN THE  
 LABORATORY OF THE COMPANY.

SIGNATURE W. HAYSON, CH. MGT.

DATE 6/24/72

ITEM NO.	HEAT NO.	TEST OR PIECE IDENTITY NO.	MATERIAL DESCRIPTION		WEIGHT	YIELD ST. PSI	TENSILE STR. PSI	ELONGATION %		% RED. OF AREA	B.T.C. MARK
			NO. PCS.	THICKNESS OR SECTION				WIDTH, DIA. OR FT. WT.	LENGTH		
03	70C118	Full Size Longitudinal	7	1 3/4	16	644	35756	* 65900	93900	24.0	B
03	73C224	Full Size Longitudinal V Notch Charpy Impact Test 10 X 10 NM Made at Plus	2	1 3/4	16	644	10216	* 66200	89200	24.0	B

\* B OR H INDICATE COMPLIANCE OF BEND OR HOMO TESTS, RESPECTIVELY

SPECIMEN SIZE TESTED ACCORDING TO COMPANY RECORDS CONFORMS TO THE REQUIREMENTS OF THE SPECIFICATION LISTED ABOVE

HEAT NO.	TYPE	C	Mn	P	S	SI	Cu	Ni	Cr	Mo	Sn	Al	N	V	B	Ti	Cb	Co
70C118	LAWL	16	114	007	025	23	32	10	54			03		05				
73C224	LAWL	16	110	007	020	23	29	14	53			03		04				





TEST REPORT OF \_\_\_\_\_ PLATES

WORKS HOMESTEAD DISTRICT U.S. ORDER NO. LA60825 LOAD TALLY OR INVOICE NO. 163-49951

CUSTOMER ORDER NO. 299 3/27/72

CAR OR TRUCK NO. CJ94609 PA SHIPPER NO. & DATE 96148 6/20/72 48

SOLD TO **CONN CONSTRUCTION CO**  
 P O BOX 431  
 NEW CASTLE PA 16103

SHIP TO **CONN FAB & ENGR CO SIDING**  
 PALE RR  
 INDUSTRIAL STREET  
 NEW CASTLE PA

SPEC **USS-COR-TEN-B-ASTM-A-508-71-GRADE-A-CHRPY-IMP-V-NOTCH-LONG-M-TESTS-15FT/LBS-AT-PLUS-40-DEG-F-FOR-HEAT-LOT-QUAL-PER-ASTM-A-370-PAR-19**

INSPECTION T/R **MILL CERT T/R LADLE TEST RESULTS PER SPEC 1 T/R TO RD WEBB**

WE HEREBY CERTIFY THAT THE CHEMICAL ANALYSIS AND/OR TESTS SHOWN IN THIS REPORT ARE CORRECT AS OBTAINED IN THE RECORDS OF THE COMPANY.

SIGNATURE M.W. HANSON CH. MGT.

DATE 06/21/72

ITEM NO.	HEAT NO.	TEST OR PIECE IDENTITY NO.	NO. PCS.	THICKNESS OR SECTION	MATERIAL DESCRIPTION		WEIGHT	YIELD ST. PSI.	TENSILE ST. PSI.	ELONGATION %		% RED. OF AREA
					WIDTH, DIA. OR FT. WT.	LENGTH				IN 8"	IN 2"	
03	70C118		2	1 3/4	16	644	10216	*65900	93900		24.0	
Full Size Longitudinal V Notch Charpy Impact Test 10 X 10 MM Made at Plus 40 Deg. F. 28-25-28 Ft. lbs.												
*YIELD POINT @ 0050 EXT.												

SPECIMEN SIZE TESTED ACCORDING TO COMPANY RECORDS CONFORMS TO THE REQUIREMENTS OF THE SPECIFICATION LISTED ABOVE

\* B OR H INDICATE COMPLIANCE OF BEND OR HOMO TESTS, RESPECTIVELY

HEAT NO.	TYPE	C	Mn	P	S	SI	Cu	Ni	Cr	Mo	5n	Al	N	V	B	Ti	Cb	Co	CHEMICAL ANALYSIS		
																			LAOL	LAOL	
70C118	LAOL	16	114	007	025	23	32	16	54			03		05							



# United States Steel Corporation

TEST REPORT OF \_\_\_\_\_ PLATES

WORKS HOMESTEAD DISTRICT U.S.S. ORDER NO. LA60825 LOAD TALLY OR INVOICE NO. 163-49950

CUSTOMER ORDER NO. 299 3/27/72

CAR OR TRUCK NO. CJ94609 PA SHIPPER NO. & DATE 96147 6/20/72 48

SOLD TO  
 CONN CONSTRUCTION CO  
 P O BOX 431  
 NEW CASTLE PA 16103

SHIP TO  
 CONN FAB & ENGR CO SIDING  
 PALE RR  
 INDUSTRIAL STREET  
 NEW CASTLE PA

SPEC  
 USS-COR-TEN-B-ASTM-A-588-71-GRADE-A-CRPPY-IMPV-NITGH-LONG-M-TESTS-  
 YSFT/LBS-AT-PLUS-40-DEG-F-FOR-HEAT-LOT-EQUAL-IMPV-ASTM-A-390-PAR-19

INSPECTION T/R  
 MILL CERT T/R LADLE TEST RESULTS PER SPEC 1 T/R TO RD WEBB

WE HEREBY CERTIFY THAT THE CHEMICAL ANALYSIS AND/OR ARE TESTS SHOWN AS REPORTED IN THE RECORDS OF THE COMPANY.

SIGNATURE M. W. MAXSON, CH. MET.

DATE 06/21/72

ITEM NO.	HEAT NO.	TEST OR PIECE IDENTITY NO.	MATERIAL DESCRIPTION				WEIGHT	YIELD PT. PSI.	TENSILE STR. PSI.	ELONGATION %		% RED. OF AREA	BENDING
			NO. PCS.	THICKNESS OR SECTION	WIDTH, DIA. OR FT. WT.	LENGTH				IN 8"	IN 2"		
03	70C118		3	1 3/4	16	644	15324	* 65900	93900		24.0		B
Full Size Longitudinal V Notch Charpy Impact Test 10 X 10 MM Made at Plus 40 Deg. F. 28-25-28 Ft. Lbs.													
*YIELD POINT @ .0050 EXT.													

SPECIMEN SIZE TESTED ACCORDING TO COMPANY RECORDS CONFORMS TO THE REQUIREMENTS OF THE SPECIFICATION LISTED ABOVE

\* B OR H INDICATE COMPLIANCE OF BEND OR HOMO TESTS, RESPECTIVELY

HEAT NO.	TYPE	C	Mn	P	S	SI	Cu	NI	Cr	Mo	Sn	Al	N	V	B	Ti	Cb	Co	CHEMICAL ANALYSIS		
																			AS	PHOSPHORUS	
70C118	LADL	16	1.14	007	025	23	32	16	54			03		05							



# United States Steel Corporation

SHAPES

TEST REPORT OF \_\_\_\_\_

WORKS HELIESTEAD DISTRICT U.S. ORDER NO. 1A88827 LOAD TALLY OR INVOICE NO. 153-46196

CUSTOMER ORDER NO. 499 372772

CAR OR TRUCK NO. PA 089460 SHIPPER NO. & DATE 9747 512272

SOLD TO  
**CORN CONSTRUCTION CO**  
 P O BOX 431  
 NEW CASTLE PA 16103

SHIP TO  
**CORN FAB & ENGR CO SIDING**  
 P8LE RR  
 INDUSTRIAL STREET  
 NEW CASTLE PA

SPEC  
 USS CORN STEEL SYSTEM A-588-71 GRADE A-378-68-15-FT LBS-V-NOTCH-40 DEG

INSPECTION T/R  
 WILL SENT T/R LABEL TEST RESULTS PER SPEC 1 T/R TO EQ EUB

DATE 06/02/72

SIGNATURE [Signature] MAXSWELL, CH. MET.

THAT THE CHEMICAL ANALYSIS REPORT ARE THE RECORDS OF THE COMPANY.

ITEM NO.	HEAT NO.	TEST OR PIECE IDENTIFY NO.	MATERIAL DESCRIPTION			WEIGHT	YIELD PT. PSI.	TENSILE STR. PSI.	ELONGATION %		RED OR AREA
			NO. PCS.	THICKNESS OR SECTION	WIDTH, DIA. OR FT. WT.				IN 8"	IN 2"	
15	650273		12	21x55	72" x 1.00	47580	58500 58400	85200 85800	23.0 21.0		B
			3/4 Size Long V Notch Charpy Impact Test 7.5 X 10 MM Made at plus 40 Deg F. 55-50-54 Ft. Lbs.								

SPECIMEN SIZE TESTED ACCORDING TO COMPANY RECORDS CONFORMS TO THE REQUIREMENTS OF THE SPECIFICATION LISTED ABOVE

\* B OR H INDICATE COMPLIANCE OF BRAND OR HOMO TESTS, RESPECTIVELY

HEAT NO.	TYPE	CHEMICAL ANALYSIS																
		C	Mn	P	S	SI	Cu	NI	Cr	Mo	Sn	Al	N	V	B	Ti	Clp	Co
650273	LA91L		110	000	021	24	31					04		04				



# United States Steel Corporation

TEST REPORT OF

SHAPES

LOAD TALLY OR

WORKS HOMESTEAD DISTRICT U.S. ORDER NO. LA60827 INVOICE NO. 163-47130

CUSTOMER ORDER NO. 299-3/27/72

CAR OR TRUCK NO. PA CJ9460

SHIPPER NO. & DATE 9919

6/07/72

SOLD TO  
CONN CONSTRUCTION CO  
P O BOX 431  
NEW CASTLE PA 16103

SHIP TO  
CONN FAB & ENGR CO SIDING  
P&LE RR  
INDUSTRIAL STREET  
NEW CASTLE PA

SPEC  
USS-COR-TEN-B-STEEL-ASTM-A-588-71-GRADE-A-CHARPY-IMPACT-V-NOTCH-10  
-DEG-F  
-FOR-HEAT-LOT-QUALIFICATION-TO-ASTM-A-370-68-15-Ft-LBS-0-PLUS-40

INSPECTION T/R  
MILL CERT T/R LADLE TEST RESULTS PER SPEC 1 T/R TO RD WEBB

010222

WE HEREBY CERTIFY  
THAT THE CHEMICAL ANALYSIS  
AND/OR ARE THE CORRESPONDING  
TAINED IN THE RECORDS OF  
THE COMPANY.

SIGNATURE: M. W. MAXSON, CH. MET.

DATE

0610

06/08/72

ITEM NO.	HEAT NO.	TEST OR PIECE IDENTITY NO.	MATERIAL DESCRIPTION		WEIGHT	YIELD PT. PSI	TENSILE STR. PSI	ELONGATION %		% RED. OF AREA	BIBLIOGRAPHIC
			NO. PCS.	THICKNESS OR SECTION				WIDTH, DIA. OR FT. WT.	LENGTH		
15	65C273		2	W21X55	7930	68600	85200	23.0			B
3/4 Longitudinal V Notch Charpy Impact Test 7.5 X 10 MM Made at plus 40 Deg F. 55-60-51 Ft. lbs.											

SPECIMEN SIZE TESTED ACCORDING TO COMPANY RECORDS CONFORMS TO THE REQUIREMENTS OF THE SPECIFICATION LISTED ABOVE

\* B OR H INDICATE COMPLIANCE OF BEND OR HOMO TESTS, RESPECTIVELY

CHEMICAL ANALYSIS																		
HEAT NO.	TYPE	C	Mn	P	S	SI	Cu	Ni	Cr	Mo	Sn	Al	N	V	B	Ti	Ca	Co
65C273	ADL	15	118	008	021	24	31	05	57			04		04				



# United States Steel Corporation

STEEL DEPARTMENT - METALLURGICAL

TEST REPORT OF

SHAPES

WORKS HOMESTEAD DISTRICT

U.S.S. ORDER NO. LA60827

LOAD TALLY OR INVOICE NO. 163-49173

CUSTOMER ORDER NO. 299 3/27/72

CAR OR TRUCK NO. PA C19460

SHIPPER NO. & DATE

3272

6/16/72

SOLD TO  
**CONN CONSTRUCTION CO  
800 BOX 431  
NEW CASTLE PA 16103**

SHIP TO  
**CONN FAB & ENGR CO SIDING  
INDUSTRIAL STREET  
NEW CASTLE PA**

USS-COR-STEEL-B-STEEL-ASTM-A-588-71-GRADE-A-378-68-15-F-IMPACT-V-NOTCH-L0  
NG-FOR-HEAT-LOT-QUALIFICATION-T0-ASTM-A-378-68-15-F-LBS-a-PLUS-40  
DEG-F

MILL CERT T/R LADLE TEST RESULTS PER SPEC 1 T/R TO RD WEBB 010222

WE HEREBY CERTIFY  
THAT THE CHEMICAL ANALYSIS  
AND/OR TESTS SHOWN IN THIS  
REPORT ARE THE CORRECT  
TAINING RECORDS OF  
THE COMPANY.

SIGNATURE M. W. MAXSON, CH. MET.

DATE

06/17/72

ITEM NO.	HEAT NO.	TEST OR PIECE IDENTITY NO.	NO. PCS.	THICKNESS OR SECTION	MATERIAL DESCRIPTION		WEIGHT	YIELD ST. PSI.	TENSILE STR. PSI.	ELONGATION %		% RED OF AREA	R I I O
					WIDTH, DIA. OR FT. WT.	LENGTH				IN 8"	IN 2"		
14	65C273		1	W21X55		66"05.00	3653	68600	85200	23.0			B
		3/4 Size Longitudinal											
		V Notch Charpy Impact 7.5 X 10 MM Made at Plus 40 Deg. F.											
17	65C273		11	W21X62		60"10.00	41492	68600	85200	23.0			B
		3/4 Size Longitudinal											
		V Notch Charpy Impact 7.5 X 10 MM Made at Plus 40 Deg. F.											
		55-50-54 Ft. Lbs.											

TESTER SIZE TESTED ACCORDING TO COMPANY RECORDS CONFORMS TO THE REQUIREMENTS OF THE SPECIFICATION LISTED ABOVE

HEAT NO.	TYPE	C	Mn	P	S	SI	CU	NI	C	Mo	Sn	Al	N	V	B	Ti	Co
65C273	LADL	15	118	008	021	24	31	05	157			04		04			

\* B OR H INDICATE COMPLIANCE OF BRAND OR HOMO TESTS, RESPECTIVELY





# United States Steel Corporation

TEST REPORT OF \_\_\_\_\_ PLATES

WORKS HOHESTEAD DISTRICT U.S. ORDER NO. LA60825 LOAD TALLY OR INVOICE NO. 163-49853

CUSTOMER ORDER NO. 299-3427772

CAR OR TRUCK NO. 94609 PA SHIPPER NO. & DATE 96144 6/19/72 48

SOLD TO  
CONN CONSTRUCTION CO  
P O BOX 431  
NEW CASTLE PA 16103

CONN FAB & ENGR CO SIDING  
INDUSTRIAL STREET  
NEW CASTLE PA

SPEC.  
USS-COR-TEMP-B-ASTM-A-588-71-GR-A-CH-IMP-V-NICH-LONG-TESTS-  
15FT/LBS-AT-PLUS-40-DEG-F-FOR-HEAT-LIGHT-GUAL-IMPER-ASTM-A-370-PAR-19

MILL CERT T/R LADLE TEST RESULTS PER SPEC 1 T/R TO RD FEBB 010139

WE HEREBY CERTIFY THAT THE CHEMICAL ANALYSIS AND/OR TESTS SHOWN IN THIS REPORT ARE THE CORRECT RECORDS OF THE COMPANY.

SIGNATURE H. W. HANSON, CH. MET.

DATE 6/20/72

ITEM NO.	HEAT NO.	TEST OR PIECE IDENTITY NO.	NO. PCS.	THICKNESS OR SECTION	MATERIAL DESCRIPTION	WIDTH, DIA. OR FT. WT.	LENGTH	WEIGHT	YIELD ST. PSI	TENSILE ST. PSI	ELONGATION %		% RED OF AREA	B I N I D *
											IN 8"	IN 2"		
03	70C118		9	1 3/4	Longitudinal V Notch Charpy Impact Test 10 X 10 MI Made at Plus 40 Deg. F.	16	644	45972	*65900	93900		24.0		B

\* B OR H INDICATE COMPLIANCE OF BEND OR HOMO TESTS, RESPECTIVELY

SPECIMEN SIZE TESTED ACCORDING TO COMPANY RECORDS CONFORMS TO THE REQUIREMENTS OF THE SPECIFICATION LISTED ABOVE

HEAT NO.	TYPE	C	Mn	P	S	SI	Cu	NI	Cr	Mo	Sn	Al	N	V	B	Ti	Cb	Co	CHEMICAL ANALYSIS		
																			PHOS	ASPH	
70C118	LADL	15	114	007	025	23	32	16	54			03		05							



TEST REPORT OF \_\_\_\_\_ SHAPES \_\_\_\_\_

WORKS WOLFESTEAD DISTRICT U.S. ORDER NO. LA6UB27 LOAD TALLY OR INVOICE NO. 163-45157

CUSTOMER ORDER NO. 299 3227772

CAR OR TRUCK NO. PA C19041 SHIPPER NO. & DATE 9281 5/30/72

SOLD TO  
 CONN CONSTRUCTION CO  
 P O BOX 431  
 NEW CASTLE PA 16103

OR TO  
 CONN FAB & ENGR CO SIDING  
 P O BOX 431  
 INDUSTRIAL STREET  
 NEW CASTLE PA

SPEC. HI STRENGTH STRL USS COR TEN B ASTM A-568-71 GRADE A CHARPY IMPACT V-NOTCH LONG FOR HEAT LOT QUALIFICATION TO ASTM A-370-68 15 FT LBS AT PLUS 40 DEG. F

INSP. T/R MILL CERT T/R LANGLE TEST RESULTS PER SPEC 1 T/R TO RD WEBB 010222

DATE 05/24/72  
 SIGNATURE N. W. HAYSDEN, CH. MGT.  
 WE HEREBY CERTIFY THAT THE CHEMICAL ANALYSIS AND/OR TESTS SHOWN IN THIS REPORT ARE THE CORRECT RECORDS OF THE COMPANY.

ITEM NO.	HEAT NO.	TEST OR PIECE IDENTITY NO.	NO. PCS.	MATERIAL DESCRIPTION		WEIGHT	YIELD ST. PSI.	TENSILE ST. PSI.	ELONGATION %		% RED. OF AREA	REMARKS
				THICKNESS OR SECTION	WIDTH, DIA. OR FT. WT.				IN 8"	IN 2"		
16	650273		14	W21X55	55" X 5.00"	42672	6660	85200	23.0	21.0		B
					LONGITUDINAL V NOTCH CHARPY IMPACT TEST 7.5X10MM MADE AT PLUS 40 DEG. F.	55-50-54 FT. LBS.						
					LONGITUDINAL V NOTCH CHARPY IMPACT TEST 7.5X10MM MADE AT PLUS 40 DEG. F.	55-58-50 FT. LBS.						

SPECIMEN SIZE TESTED ACCORDING TO COMPANY RECORDS CONFORMS TO THE REQUIREMENTS OF THE SPECIFICATION LISTED ABOVE

CHEMICAL ANALYSIS

HEAT NO.	TYPE	C	Mn	P	S	SI	CU	NI	C	Mo	5n	Al	N	V	B	Ti	CB	Co
650273	LANGLE	15	0.18	0.08	0.21	24	31	0.5	0.57			0.04		0.04				

**PURCHASE ORDER**  
**Conn Construction Co.**  
*Engineers and Contractors*

Date May 5, 1972

Area Code 412, 654-6672

BOX 431 - NEW CASTLE, PENNSYLVANIA 16103

To Bethlehem Steel Corporation  
 Four Gateway Center  
 Pittsburgh, Pennsylvania

SHIP TO

Attention: Mr. T. F. Weber

SHIP	VIA	F. O. B.	A/C NO.
QUANTITY	DESCRIPTION		

IN RE: Rehabilitation of Bloomfield Bridge

16 pcs. 5" I (14.75#) x 26 ft. 0 in.

20 pcs. 5" Channel (9.0#) x 26 ft. 0 in.

Above material to be ASTM A-588 - Six copies chemical and physical test reports required

IN RE: Reconstruction of Forbes Avenue Bridge  
 over Fern Hollow and other work incidental thereto

12 pcs. 5" I (14.75#) x 32 ft. 0 in. ✓

8 pcs. 5" Channel (9.0#) x 32 ft. 0 in. ✓

*Per complete*

Above material to be ASTM A-588. See special test requirements enclosed. Six copies chemical and physical test reports required.

IN RE: Beaver County  
 L.R. 77 Section 20

6 pcs. 15" I (42.9#) x 18 ft. 0 in.

This material to be ASTM A-36 - Six copies chemical and physical test reports required.

Customer truck at Bethlehem, Pa. week of May 28, 1972.

**CONN CONSTRUCTION CO.**

By \_\_\_\_\_ PURCHASING AGENT



**REPORT OF MECHANICAL AND CHEMICAL TESTS**

**BETHLEHEM STEEL CORPORATION  
METALLURGICAL DEPARTMENT**

PAGE 1 34575 (Rev. B 3-69)

CUSTOMER'S ORDER NO. 327	MILL ORDER NO. 013-4293-B	SHIPMENT NO. 104-46389	SHIPPED FROM BETHLEHEM	DATE SHIPPED 6/13/72
-----------------------------	------------------------------	---------------------------	---------------------------	-------------------------

CONN CONSTRUCTION CO BOX 431 NEW CASTLE PA 16103	SHIP TO	CONN CONSTRUCTION CO 108 CROTON AVE NEW CASTLE PA
--	---------	---

SPECIFICATION  
ASTM A588-71 GRB MAYARI R50 CHARPY V-NOTCH

INSPECTION—TEST REPORTS  
10569 6 SWORN TEST REPORTS  
REFER TO ORDER - FOR ANY COMBINATIONS

HEAT NO.	NO. PIECES	DESCRIPTION	LENGTH			WEIGHT	YIELD POINT	TENSILE STRENGTH	ELONG		BER
			Feet	In.	Frc.				%	IN	
173H517	12	S5X14.75	32			5664	53745	75025	23.0	8	0
173H231	8	C5X9	32			2304	61119	85818	18.1	8	0
173H517 Charpy V Notch Plus 40 Deg F Spec Size 10mm x 7.5mm		47-36-37		Avg 40.0 Ft Lbs		26-22-37		28.3			

**SUBSCRIBED AND SWORN  
TO BEFORE ME**

**JUN 16 1972.**

*Andrew Tischer*  
Notary Public  
My Commission Expires July 15, 1973  
City of Bethlehem  
Northampton County

HEAT NO.	C	Mn	P	S	Si	Cu	Ni	Cr	Mo	V	N	Ti	Zr
	173H517	.14	.86	.016	.012	.20	.33	.34	.46		.020		
173H231	.18	.90	.014	.021	.20	.32	.34	.50		.100			

*E. A. Reid*  
E. A. REID

I CERTIFY THE ABOVE RESULTS TO BE CORRECT AS CONTAINED IN THE RECORDS OF THE COMPANY.

CHIEF METALLURGIST E. A. REID PER W. J.



PURCHASE ORDER  
**Conn Construction Co.**  
*—Engineers and Contractors—*

Date July 2, 1978

Area Code 412, 654-6672

BOX 431 - NEW CASTLE, PENNSYLVANIA 16103

To Bethlehem Steel Corporation  
 Four Gateway Center  
 Pittsburgh, Pa.  
 Attn: Mr. J. D. Cochenour

SHIP TO

SHIP	VIA	F. O. B.	A/C NO.
QUANTITY	DESCRIPTION		

IN RE: Rehabilitation of Forbes Ave.  
 Bridge over Fern Hollow

2 Pl 96" x 1" x 20 ft. 6 in.

2 Pl 102" x 1" x 20 ft. 6 in.

Above material to be ASTM A-588  
 Test reports required to be same as per our P.O. No. 314  
 for this job.

Six copies chemical and physical test reports required.

**CONN CONSTRUCTION CO.**

By \_\_\_\_\_  
 PURCHASING AGENT



**BETHLEHEM STEEL CORPORATION**  
BETHLEHEM, PA. 18016

INPUT 602-6861

CUST ORG BELOW  
 CUST NO. 203940-00  
 SALES NO. BELOW  
 DATE 7/14/72  
 CUST TRUCK  
 SHIP TO COLLECT

SOLD TO: CONN CONSTRUCTION CO  
 BOX 431  
 NEW CASTLE PA 16103  
 DATE SHIP 7/14/72  
 FROM JOHNSTOWN PA  
 SHIP TO: CONN CONSTRUCTION CO  
 108 CROTON AVE  
 NEW CASTLE PA  
 FOB

CAR OR VEHICLE NO.	NO. PCS OF PKGS	KIND OF PACKAGE, DESCRIPTION OF ARTICLES, SPECIAL MARKS AND EXCEPTIONS	WEIGHT (POUNDS)
TRL TB69631	6	STEEL PLATES DUNNAGE FREE 100#	39404

MAX WIDTH 8'6"  
 GREATEST LENGTH 50'4"

03-3107  
 CUSTOMER & BSC ORDER NOS. UNITS DESCRIPTION AND SIZE WEIGHT

HT#	PCS	DESCRIPTION AND SIZE	WEIGHT	TESTS
314	2	604 50FT4IN	11806	Charpy Results Avg. 35.0-39.0-38.0 - 37.3
553A	2	245 20FT6IN	14218	45.0-44.0-37.0 - 42.0
	2	245 20FT6IN	13380	
	6		39404	

Heat#	YP	TS	E1%-8"	Bends	C	Mn	P	S	Si	Ni	Cr	Cu	Va
661H632	62900	81450	22.0	OK	10	109	010	021	26	33	57	26	05
662H868	60000	80000	23.0	OK	08	112	013	035	26	32	57	27	05

**REPORT OF PHYSICAL TESTS  
AND/OR CHEMICAL ANALYSES**

I CERTIFY THE ABOVE RESULTS OF TESTS AND/OR ANALYSES TO BE CORRECT AS CONTAINED IN THE RECORDS OF THE BETHLEHEM STEEL CORPORATION.  
*J. A. [Signature]*  
 Chief Metallurgist.

SUBSCRIBED & SWORN TO BEFORE ME THIS  
 18th DAY OF [Month] 1972  
*[Signature]*  
 NOTARY PUBLIC COMMONWEALTH OF PENNSYLVANIA  
 My Commission expires November 13, 1972

**PURCHASE ORDER**  
**Conn Construction Co.**  
*—Engineers and Contractors—*

Date April 21, 1972

Area Code 412, 654-6672

BOX 431 - NEW CASTLE, PENNSYLVANIA 16103

To Bethlehem Steel Corporation  
 Four Gateway Center  
 Pittsburgh, Pennsylvania  
 Attention: Mr. T. F. Weber

SHIP TO

SHIP	VIA	F. O. B.	A/C NO.

QUANTITY	DESCRIPTION
IN RE: Reconstruction of Forbes Avenue Bridge over Fern Hollow and other work incidental thereto	
4 Pls	115 x 3/8 x 97 ft. 0 in.
4 Pls	127 x 7/16 x 28 ft. 4 in.
4 Pls	134 x 13/16 x <del>34</del> ft. 5 in. 37'0"
4 Pls	121 x 1/2 x 28 ft. 4 in.
2 Pls	<del>99 x 3/8 x 50 ft. 2 in.</del> 92 x 3/8 x 50'4"
✓ 4 Pls	100 x 1/2 x 11 ft. 4 in.
8 Pls	24 x 1-7/8 x <del>56</del> ft. 0 in. 53'0 ✓
8 Pls	24 x 2-1/4 x 28 ft. 6 in.
4 Pls	24 x <del>3</del> x 34 ft. 6 in. - 3/8
4 Pls	24 x <del>2 1/2</del> x 16 ft. 0 in. - 3/8
4 Pls	24 x <del>2 1/2</del> x 18 ft. 8 in. - 3/8
8 Pls	24 x 2-1/2 x <del>28</del> ft. 6 in. 30'3" cancel
4 Pls	24 x 2-1/8 x <del>72</del> ft. 6 in. 57'0
8 Pls	10-1/2 x 11/16 x 33 ft. 10 in.
7 Bars	7-1/2 x 1/2 x 30 ft. 0 in. } cancel
7 Bars	7-1/2 x 1/2 x 36 ft. 0 in. }
13 Bars	7-1/2 x 1/2 x 40 ft. 0 in. }
1 Pl	22 x 3-1/4 x 30 ft. 6 in.
8 Pl	11-1/2 x 2-1/2 x 12 ft. 6 in.
8 Pl	11-1/2 x 2-1/2 x 13 ft. 0 in.
4 Pl	18 x 1/2 x 30 ft. 0 in.
6 Pl	18 x 1/2 x 24 ft. 0 in.
<del>4 Pl</del>	<del>12 x 5/16 x 53 ft. 0 in.</del> cancel
4 Pl	12 x 5/16 x 57 ft. 0 in.
4 Pl	12 x 5/16 x 58 ft. 0 in.
4 Pl	12 x 5/16 x 58 ft. 4 in.
4 Pl	12 x 5/16 x 59 ft. 0 in.
8 Pl	11-3/8 x 5/16 x 53 ft. 0 in.
4 Pl	11-3/8 x 5/16 x 57 ft. 0 in.
4 Pl	11-3/8 x 5/16 x 58 ft. 0 in.
4 Pl	11-3/8 x 5/16 x 58 ft. 4 in.
4 Pl	11-3/8 x 5/16 x 59 ft. 0 in.

26 pcs 7 1/2 x 1/2 x 38'0

**CONN CONSTRUCTION CO.**

By \_\_\_\_\_ PURCHASING AGENT

PURCHASE ORDER  
**Conn Construction Co.**  
*—Engineers and Contractors—*

Date April 21, 1972

Area Code 412, 654-6672

BOX 431 - NEW CASTLE, PENNSYLVANIA 16103

To **Bethlehem Steel Corp.**

SHIP TO

Attention: Mr. T. F. Weber

SHIP	VIA	F. O. B.	A/C NO.
QUANTITY	DESCRIPTION		

Page 2

All material to be ASTM A-588. See enclosed test requirements.

Six copies chemical and physical test reports required

**CONN CONSTRUCTION CO.**

By \_\_\_\_\_  
PURCHASING AGENT

# CONN CONSTRUCTION CO.

*Engineers and Contractors*

AREA CODE 412 654-6672

BOX 431 - NEW CASTLE, PENNSYLVANIA 16103

May 2, 1972

Bethlehem Steel Corporation  
Four Gateway Center  
Pittsburgh, Pennsylvania

Attention: Mr. T. F. Weber

IN RE: Our Purchase Order No. 314  
Dated 4/21/72

Gentlemen:

Pursuant to our telephone conversation in regard to the captioned purchase order, we wish to make the following corrections:

1. 2 Plates 90" x 3/8" x 50'2" to read 92" x 3/8" ✓  
x 50 ft. 4 in.
2. 4 Plates 24 x 3/8 x 34 ft. 6 in. ✓  
4 Plates 24 x 3/8 x 16 ft. 0 in.  
4 Plates 24 x 3/8 x 18 ft. 8 in.  
All items to read 24" x 3-1/8"
3. 4 Plates 12 x 5/16 x 53 ft. 0 in. - cancel ✓  
4 Plates 11-3/8 x 5/16 x 53 ft. 0 in.  
to read 8 Plates
4. 4 Plates 100 x 1/2 x 11 ft. 4 in, ✓  
to read 6 Plates
5. 4 Plates 134 x 13/16 x 34 ft. 3 in. ✓  
to read 37 ft. 0 in.

Very truly yours,

CONN CONSTRUCTION CO.,

J. V. Howard

bd

*An Equal Opportunity Employer*

# CONN CONSTRUCTION CO.

*Engineers and Contractors*

AREA CODE 412 654-6672  
BOX 431 - NEW CASTLE, PENNSYLVANIA 16103

April 24, 1972

Bethlehem Steel Corporation  
Four Gateway Center  
Pittsburgh, Pennsylvania

Attention: Mr. W. Eddy

IN RE: Our Purchase Order No. 314  
dated 4/21/72

Gentlemen:

In regard to the captioned purchase order, please  
cancel the three items of 7½ x 1/2 bar as written  
and substitute the following item:

26 Bars 7½ x 1/2 x 33 ft. 0 in. ✓

The test requirements for purchase order 314 will  
pertain to this item also.

Very truly yours,

CONN CONSTRUCTION CO.,

J. V. Howard

bd

*An Equal Opportunity Employer*



# Bethlehem Steel Corporation

DISTRICT SALES OFFICE FOUR GATEWAY CENTER  
PITTSBURGH, PA. 15222

R. N. BOLLINGER  
MANAGER OF SALES  
A. R. HARPER, JR.  
ASSISTANT MANAGER OF SALES



PHONE 471-5900  
AREA CODE 412

May 1, 1972

Conn Construction Company  
Box 431  
New Castle, Pennsylvania 16103

Attention: Mr. J. V. Howard  
Purchasing Agent

Gentlemen: Subject: Order 314

Confirming our phone conversation on April 24, 1972, we will furnish the alloy bar item on your above order as follows:

↓  
ASTM A588 GRADE B MAYARI R-50 MATERIAL

26 Pieces - 7-1/2 x 1/2" S.E., 38'-0", no shorts  
Approx. Weight: 12,646 pounds

We will furnish the above on the basis of exact quantity not required; however, we will work to a quantity tolerance all plus, nothing minus.

We wish also to point out that the impact properties we will proceed with a longitudinal Charpy V-notch impact at 15-foot pounds at 40° F. from the thickest and thinnest gage each heat.

We wish also to point out that the .25 cents per pound extra for impact test will apply.

We expect to ship by June 13, 1972, or sooner if possible.

All other requirements remain the same as previously specified; and if contrary, kindly advise this office at your earliest convenience.

Very truly yours,

BETHLEHEM STEEL CORPORATION  
R. N. Bollinger, Manager of Sales

By: 

WEEdie:emkw

FOURTEEN FIVE,  
INTERIOR GIRDER STIFFENERS

# Bethlehem Steel Corporation

DISTRICT SALES OFFICE FOUR GATEWAY CENTER  
PITTSBURGH, PA. 15222

R. N. BOLLINGER  
MANAGER OF SALES  
A. R. HARPER, JR.  
ASSISTANT MANAGER OF SALES



PHONE: 471-5900  
AREA CODE 412

May 3, 1972

Conn Construction Company  
Box 431  
New Castle, Pennsylvania 16103

Attention: Mr. J. V. Howard

Gentlemen: Subject: Order 314

Confirming our phone conversation of May 1, 1972, we wish to advise that we have made the following changes:

<u>From</u>	<u>To Now Read</u>
4 Pcs. 3/8 x 24 x 414	4 Pcs. 3-1/8 x 24 x 414
4 Pcs. 3/8 x 24 x 224	4 Pcs. 3-1/8 x 24 x 224
4 Pcs. 3/8 x 24 x 192	4 Pcs. 3-1/8 x 24 x 192
4 Pcs. 5/16 x 12 x 636	Canceled
4 Pcs. 5/16 x 11-3/8 x 636	8 Pcs. 5/16 x 11-3/8 x 636
4 Pcs. 1/2 x 100 x 136	6 Pcs. 1/2 x 100 x 136
2 Pcs. 3/8 x 90 x 602	2 Pcs. 3/8 x 92 x 604
IN 4 Pcs. 13/16 x 134 x 411	4 Pcs. 13/16 x 134 x 444

Very truly yours,

BETHLEHEM STEEL CORPORATION  
R. N. Bollinger, Manager of Sales

By: *Frank Heber*

TFWeber:ds

ALL CORRECT

CONN CONSTRUCTION CO.

Engineers and Contractors

AREA CODE 412 654-6672  
BOX 431 - NEW CASTLE, PENNSYLVANIA 16103

May 5, 1972

Bethlehem Steel Corporation  
Four Gateway Center  
Pittsburgh, Pennsylvania

Attention: Mr. T. F. Weber

RE: Our Purchase Order No. 314  
Dated 4/21/72

Gentlemen:

In regard to the captioned purchase order, we wish  
to revise the item of 3 pcs. 24" x 2-1/2" x 28'6"  
to read 3 pcs. 24" x 2-1/2" x 29'6" L. M.

All other conditions remain unchanged.

Very truly yours,

CONN CONSTRUCTION CO.

J. V. Howard

cc

An Equal Opportunity Employer

May 16, 1972

Bethlehem Steel Corporation  
Four Gateway Center  
Pittsburgh, Pennsylvania

Attention: Mr. T. F. Weber

IN RE: Our Purchase Order No. 314

Gentlemen:

Pursuant to our telephone conversation of May 15, 1972  
the captioned purchase order is changed as follows:

8 pcs. 24 x 1-7/8 Pl x 96 ft. 6 in. change to  
IN 8 pcs. 24 x 1-7/8 Plate x 53 ft. 0 in.

4 Pls 24 x 2-1/8 x 72 ft. 6 in. change to  
IN 4 Pls 24 x 2-1/8 x 57 ft. 0 in.

8 Pls 24 x 2-1/2 x 30 ft. 3 in. - CANCEL

Add to P.O. # 314:

8 Pl 24 x 1-1/4 x 17 ft. 0 in.

8 Pl 24 x 1-1/4 x 18 ft. 6 in.

8 Pl 24 x 1-1/4 x 19 ft. 0 in.

2 Pl 24 x 1-1/4 x 20 ft. 6 in.

1 Pl 24 x 1-1/4 x 24 ft. 6 in.

8 Pl 24 x 1-1/4 x 25 ft. 6 in.

8 Pl 24 x 2-1/4 x 12 ft. 6 in.

Concerning the item of 8 pls 24 x 2-1/4 x 28 ft. 6 in. 3 IN  
of which we understand that five pieces are rolled as per  
specifications and three pieces are rolled to ASTM A-242  
specifications, we will take the 5 pieces of ASTM A-588 but  
will not be able to accept the 3 pcs. of ASTM A-242.  
Please have these three pieces remade to ASTM A-588.

Very truly yours,

J. V. Howard

bd

# Bethlehem Steel Corporation

DISTRICT SALES OFFICE: FOUR GATEWAY CENTER  
PITTSBURGH, PA. 15222

R. N. BOLLINGER  
MANAGER OF SALES  
A. R. HARPER, JR.  
ASSISTANT MANAGER OF SALES



PHONE 412-5900  
AREA CODE 412

May 11, 1972

Conn Construction Company  
Box 431  
New Castle, Pennsylvania 16103

Attention: Mr. J. V. Howard

Gentlemen:                                  Subject: Order 314

Confirming your phone conversation with our Mr. D. N. Dias of May 4, 1972, we wish to advise that we have changed the length on the item of 8 pieces 2-1/2 x 24 x 28'-6" to now read 30'-3".

Very truly yours,

BETHLEHEM STEEL CORPORATION  
R. N. Bollinger, Manager of Sales

By: *Frank Weber*

TFWeber:emkw

# Bethlehem Steel Corporation

DISTRICT SALES OFFICE FOUR GATEWAY CENTER  
PITTSBURGH, PA. 15222

R. N. BOLLINGER  
MANAGER OF SALES  
A. R. HARPER, JR.  
ASSISTANT MANAGER OF SALES



PHONE: 471-5900  
AREA CODE 412

May 18, 1972

Conn Construction Company  
Box 431  
New Castle, Pennsylvania 16103

Attention: Mr. J. V. Howard

Gentlemen: Subject: Order No. 314

Confirming our phone conversation of May 15, 1972, we wish to advise that we have made the following changes:

As Originally Entered

Changed to Now Read

8 Pcs. 2-1/2 x 24 x 363  
8 Pcs. 1-7/8 x 24 x 96' 6"  
4 Pcs. 2-1/2 x 24 x 72' 6"  
*2 1/2*

Canceled ✓  
8 Pcs. 1-7/8 x 24 x 53' 0"  
4 Pcs. 2-1/2 x 24 x 57' 0"  
*2 1/2*

Further, we have added the following items for production at our Johnstown UM Mill for shipping by week of May 28, 1972, to Mayari R50, ASTM A588, Grade B Specification with additional testing requirements as per original order.

8 Pcs. 1-1/4 x 24" x 19' 0"  
8 Pcs. 1-1/4 x 24" x 25' 6"  
8 Pcs. 1-1/4 x 24" x 17' 0"  
8 Pcs. 1-1/4 x 24" x 18' 6"  
2 Pcs. 1-1/4 x 24" x 20' 6"  
1 Pc. 1-1/4 x 24" x 24' 6"  
8 Pcs. 2-1/4 x 24" x 12' 6"

*2 1/2" IS  
CORRECT*

*BY PHONE*

*TO BE MADE  
BY MAY*

*FOR 11 MAY 14 @ BASE*

We further advise that we have, therefore, released the entire order for production and shipping.

Very truly yours,

BETHLEHEM STEEL CORPORATION  
R. N. Bollinger, Manager of Sales

By: *Frank Weber*

TFWeber:ds



**BETHLEHEM STEEL CORPORATION**  
BETHLEHEM, PA. 18016

SHIP# 602-6861

CUST BELOW  
 ORD CODES 203940-00 | TIME 1 | 13 | 16 | 3737 | 180 | 00 | X997  
 SOLD TO 1 | 3 | SHIP TO | CARD | 00 | COLLECT

SOLD TO: CONN CONSTRUCTION CO  
 BOX 431  
 NEW CASTLE PA 16103

SHIP TO: CONN CONSTRUCTION CO  
 108 CROTON AVE  
 NEW CASTLE PA

DATE SHIP 7/14/72 SHIP FROM JOHNSTOWN PA FOR  
 ROUTE CUST TRUCK

CAR OR VEHICLE NO.	NO. PCS OF PKGS	END OF PACKAGE, DESCRIPTION OF ARTICLES, SPECIAL MARKS AND EXCEPTIONS	WEIGHT (POUNDS)
TRL TB69631	6	STEEL PLATES DUNNAGE FREE 100#	39404

MAX WIDTH 8'6"  
 GREATEST LENGTH 50'4"

03-3107  
 CUSTOMER & BSC ORDER NOS. UNITS DESCRIPTION AND SIZE WEIGHT

HT# PCS  
 INSP: 6 SWORN TESTS  
 SPEC: (20250034BD) MAYARI R-50 ASTM A588 GR B LONG  
 V NOTCH 15 FT LB AT 40 DEG F THICK THINNEST GA EA  
 HT MAX 5 TON LIFTS

(0861-256-101)

314  
 GF 13-3868C\*

2(C)	661H632	2	3/8	92	604	11806	Charpy Results Avg. 35.0-39.0-38.0 - 37.3
						50FT4IN	

553A  
 GF 13-5481A\*

1(C)	662H868	2	1	102	245	14218	45.0-44.0-37.0 - 42.0
						29FT6IN	

2(C)	662H868	2	1	96	245	13380	
						29FT6IN	
						6	39404

Heat#	YP	TS	E1%-8"	Bends	C	Mn	P	S	Si	Ni	Cr	Cu	Va
661H632	62900	81450	22.0	OK	10	109	010	021	26	33	57	26	05
662H868	60000	80000	23.0	OK	08	112	013	035	26	32	57	27	05

**REPORT OF PHYSICAL TESTS  
 AND/OR CHEMICAL ANALYSES**

I CERTIFY THE ABOVE RESULTS OF TESTS  
 AND/OR ANALYSES TO BE CORRECT AS CONTAINED IN  
 THE RECORDS OF THE BETHLEHEM STEEL CORPORATION.

*R. A. [Signature]*  
 Chief Metallurgist.

SUBSCRIBED & SWORN TO BEFORE ME THIS  
 18th DAY OF 1972  
*[Signature]*  
 NOTARY PUBLIC COMMONWEALTH OF PENNSYLVANIA  
 My Commission expires November 13, 1972

# BETHLEHEM STEEL CORPORATION

BETHLEHEM, PA. 18014

SHPMT NO. 604-9561

GF 13-3868-E

CUST ORD 314

SOLD TO	DATE	SHIP TO	DATE	SHIP TO	DATE	SHIP TO	DATE	SHIP TO	DATE	SHIP TO	DATE
CONN CONSTRUCTION CO											
SHT 2											
DATE SHPD											
SHIP FROM											
ROUTE											

CAR OR VEHICLE NO.	NO. PCS OR PKGS	KIND OF PACKAGE, DESCRIPTION OF ARTICLES, SPECIAL MARKS AND EXCEPTIONS	WEIGHT (POUNDS)
--------------------	-----------------	--	-----------------

	C	Mn	P	S	Si	Ni	Cr	Cu	Va	Charpy Results
662H271	09	108	010	022	26	29	53	22	05	36-28-30 Avg.
654H525	09	118	010	019	29	32	59	24	05	35-38-40 "

CUSTOMER & BSC ORDER NOS.	UNITS	DESCRIPTION AND SIZE	WEIGHT
---------------------------	-------	----------------------	--------

IT	HT	PCS					WEIGHT			
INSPECTION: 6 SWORN TESTS										
SPECIFICATION: (20250034BD) MAYARI R-50 ASTM A588 GR B LONG V										
NOTCH 15 FT LB AT 40 DEG F THICK & THINNEST GA EA HT										
MAX 5 TON LIFTS MKD A588B MAYARI R50										
(0760-256-091)										
15(C)	662H271	4	5/16	11-3/8	684	2756	Yield	Tensile	El.	Ber
					(57FT)		62370	82740	21.0	OF
16(C)	662H271	3	5/16	11-3/8	636	1923				
	654H525	5			(53FT)	3205	58610	76920	24.0	OF
		40				28208				

### REPORT OF PHYSICAL TESTS AND/OR CHEMICAL ANALYSES

I CERTIFY THE ABOVE RESULTS OF TESTS AND/OR ANALYSES TO BE CORRECT AS CONTAINED IN THE RECORDS OF THE BETHLEHEM STEEL CORPORATION.

*B. A. Regalado*  
Chief Metallurgist.

SUBSCRIBED & SWORN TO BEFORE ME

29th DAY OF JUNI 1972

*[Signature]*

NOTARY PUBLIC COMM. STATE OF PENNSYLVANIA

My Commission expires \_\_\_\_\_ 1972

**BETHLEHEM STEEL CORPORATION**  
BETHLEHEM, PA. 18016

SHIP NO. 602-6364  
GF 13-3868C  
X997

CUST ORD 314  
CODES 203940-00  
ITEMS 1  
QTY 13  
LBS 16  
3737  
NET 180  
GROSS 00  
TARE 00  
COLLECT

SOLD TO  
CONN CONSTRUCTION CO  
BOX 431  
NEW CASTLE PA 16103

SHIP TO  
CONN CONSTRUCTION CO  
108 CROTON AVE  
NEW CASTLE PA

DATE SHIP 6/27/72  
SHIP FROM JOHNSTOWN PA  
ROUTE CUST TRUCK

CAR OR VEHICLE NO.	NO. PCS OF PCS	KIND OF PACKAGE, DESCRIPTION OF ARTICLES, SPECIAL MARKS AND EXCEPTIONS	WEIGHT (POUNDS)
TRL TB69631	6	STEEL PLATES DUNNAGE FREE 25#	11556

03-2876

CUSTOMER & BSC ORDER NOS. UNITS DESCRIPTION AND SIZE WEIGHT

HT# PCS

INSP: 6 SWORN TESTS  
SPEC: (20250034BD) MAYARI R-50 ASTM A588 GR B LONG  
V NOTCH 15 FT LB AT 40 DEG F THICK THINNEST GA EA HT  
MAX 5 TON LIFTS

(0861-256-101)

HT#	PCS	UNITS	DESCRIPTION AND SIZE	WEIGHT	Y.P.	T.S.	El. E" Ber
1(C)	661H632	6	1/2 100 136 11FT4IN	11556	58250	84950	23.5 Ok

C.	Mn.	P.	S.	Si.	Ni.	Cr.	Cu.	Va.	Charpy Results
10	109	010	021	26	33	57	26	05	40-46-45 Avg. 43.7

**REPORT OF PHYSICAL TESTS  
AND/OR CHEMICAL ANALYSES**

I CERTIFY THE ABOVE RESULTS OF TESTS  
AND/OR ANALYSES TO BE CORRECT AS CONTAINED IN  
THE RECORDS OF THE BETHLEHEM STEEL CORPORATION.

*R. A. Reynolds*  
Chief Metallurgist.

SUBSCRIBED & SWORN TO BEFORE ME THIS  
29th DAY OF JUNE 1972  
*[Signature]*  
NOTARY PUBLIC COMMONWEALTH OF PENNSYLVANIA  
My Commission expires November 13, 1972

# BETHLEHEM STEEL CORPORATION

BETHLEHEM, PA. 18016

SHIPY NO. 604-9561

CUST ORD 314  
 SALES CODES 203940-00  
 QUANTITY 1  
 WEIGHT 13  
 LENGTH 16  
 WIDTH 3737  
 HEIGHT 180  
 SALES ORDER GF 13-3868-E  
 SHIP TO X997  
 COLLECT

SOLD TO CONN CONSTRUCTION CO BOX 431 NEW CASTLE PA 16103	SHIP TO CONN CONSTRUCTION CO 108 CROTON AVE NEW CASTLE PA
DATE SHIPD 6/27/72	SHIP FROM JOHNSTOWN PA
ROUTE CUST TRUCK	JOB

CAT OF VEHICLE NO.	NO. PCS OR PKGS	KIND OF PACKAGE, DESCRIPTION OF ARTICLES, SPECIAL MARKS AND EXCEPTIONS	WEIGHT (POUNDS)																														
TRL TB69631	40	STEEL PLATES DUNNAGE FREE 100# MAX LGTH- 59'	28208																														
		<table border="0" style="width: 100%;"> <tr> <td>C</td> <td>Mn</td> <td>P</td> <td>S</td> <td>Si</td> <td>Ni</td> <td>Cr</td> <td>Cu</td> <td>Va</td> <td>Charpy Results</td> </tr> <tr> <td>654H525 09</td> <td>118</td> <td>010</td> <td>019</td> <td>29</td> <td>32</td> <td>59</td> <td>24</td> <td>05</td> <td>35-38-40 Avg.37</td> </tr> <tr> <td>662H271 09</td> <td>108</td> <td>010</td> <td>022</td> <td>26</td> <td>29</td> <td>53</td> <td>22</td> <td>05</td> <td>36-28-30 " 31</td> </tr> </table>	C	Mn	P	S	Si	Ni	Cr	Cu	Va	Charpy Results	654H525 09	118	010	019	29	32	59	24	05	35-38-40 Avg.37	662H271 09	108	010	022	26	29	53	22	05	36-28-30 " 31	
C	Mn	P	S	Si	Ni	Cr	Cu	Va	Charpy Results																								
654H525 09	118	010	019	29	32	59	24	05	35-38-40 Avg.37																								
662H271 09	108	010	022	26	29	53	22	05	36-28-30 " 31																								

42-3152  
 CUSTOMER & BSC ORDER NOS. UNITS DESCRIPTION AND SIZE WEIGHT

INSP: 6 SWORN TESTS  
 SPEC: (20250034BD) MAYARI R-50 ASTM A588 GR B LONG V  
 NOTCH 15 FT LB AT 40 DEG F THICK & THINNEST GA EA HT  
 MAX 5 TON LIFTS MKD A588B MAYARI R50

IT	HT	PCS	UNITS	DESCRIPTION AND SIZE	WEIGHT	Yield	Tensile	El. 8"	Ber
7(C)		4	5/16	12 708 (59FT)	3008	68870	90750	21.5	OK
8(C)		4	5/16	12 700 (58FT4IN)	2976				
9(C)		4	5/16	12 696 (58FT)	2956				
10(C)		4	5/16	12 684 (57FT)	2908				
12(C)		4	5/16	11-3/8 708 (59FT)	2852	59660	80860	23.5	OK
13(C)		4	5/16	11-3/8 700 (58FT4IN)	2820				
14(C)		4	5/16	11-3/8 696 (58FT)	2804				

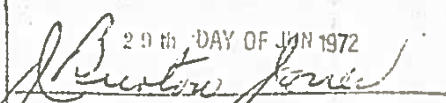
**REPORT OF PHYSICAL TESTS AND/OR CHEMICAL ANALYSES**

I CERTIFY THE ABOVE RESULTS OF TESTS AND/OR ANALYSES TO BE CORRECT AS CONTAINED IN THE RECORDS OF THE BETHLEHEM STEEL CORPORATION.

  
 Chief Metallurgist.

SUBSCRIBED & SWORN TO BEFORE ME THE

20th DAY OF JUN 1972

  
 NOTARY PUBLIC COMMONWEALTH OF PENNSYLVANIA  
 My Commission expires September 13, 1973



# BETHLEHEM STEEL CORPORATION

BETHLEHEM, PA. 18016

SHIPMENT NO. 604-9337

SALE ORDER BELOW

CUST ORD 314

SOLD TO	DATE SHPD	ROUTE	SHIP TO	SHIP FROM	NO. PCS OR PKGS	KIND OF PACKAGE, DESCRIPTION OF ARTICLES, SPECIAL MARKS AND EXCEPTIONS	WEIGHT POUNDS
CONN CONSTRUCTION CO			SHT 2				

CUSTOMER & ISC ORDER NOS.	UNITS	DESCRIPTION AND SIZE	WEIGHT
IT HT PCS			

INSP: 6 SWORN TESTS  
 SPEC: (20250034BD) MAYARI R-50 ASTM A588 GR B LONG  
 V NOTCH 15 FT LB AT 40 DEG F THICK & THINNEST GA  
 EA HT MAX 5 TON LIFTS MKD A588B MAYARI R50

(0760-256-091)

GF 13-3868-F

1(P)649H558	4	1-1/4	24	306 (25FT6IN)	10404	Yield Tensile 66930	8" Ber 89370	El. 25.0
	12				45760			

C	Mn	P	S	Si	Ni	Cr	Cu	Va	Charpy Results
10	121	013	030	29	33	60	30	07	26 28 32 Avg.28.7

**REPORT OF PHYSICAL TESTS  
AND/OR CHEMICAL ANALYSES**

I CERTIFY THE ABOVE RESULTS OF TESTS AND/OR ANALYSES TO BE CORRECT AS CONTAINED IN THE RECORDS OF THE BETHLEHEM STEEL CORPORATION.

*R. H. Reynolds*  
**Chief Metallurgist.**

SUBSCRIBED & SWORN TO BEFORE ME THIS

26th DAY OF JUN 1972

*[Signature]*

NOTARY PUBLIC COMMONWEALTH OF PENNSYLVANIA

My Commission expires November 13, 1973





# BETHLEHEM STEEL CORPORATION

BETHLEHEM, PA. 18016

SHIPMT NO. 604-9394

CUST ORD 314  
 COOCS 203940-00  
 SOLD TO 1 3 SHIP TO 13 16 3737 180 2 00 BELOW X997  
 COLLECT

SOLD TO  
 CONN CONSTRUCTION CO  
 BOX 431  
 NEW CASTLE PA 16103

SHIP TO  
 CONN CONSTRUCTION CO  
 108 CROTON AVE.  
 NEW CASTLE PA

DATE SHIP 6/22/72  
 SHIP FROM JOHNSTOWN PA  
 ROUTE CUSTOMER TRUCK

TRL TB69631 19 STEEL PLATES 48693

DUNNAGE FREE 100#

	C	Mn	P	S	Si	Ni	Cr	Cu	Va
649H558	10	121	013	030	29	33	60	30	07
661H698	09	114	011	024	29	29	58	25	05

47-0782

II# HEAT# PCS

INSP: 6 SWORN TESTS  
 SPEC: (20250034BD) MAYARI R-50 ASTM A588 GR B  
 LONG V NOTCH 15 FT LB AT 40 DEG F THICK &  
 THINNEST GA EA HT GAS CUT ENDS MAX 5 TON LIFTS  
 MK: A588B MAYARI R-50

GF 13-3868D (0760-256-091)

QTY	HEAT#	PCS	THICK	WIDTH	WEIGHT	YIELD	TENSILE	EL.	BER
4 (C)	649H558	3	2-1/4	24	342 28FT6IN	15696	58150	85710	24.0

Charpy RESULTS  
 36-38-41 Avg.38.3

INSP: 6 SWORN TESTS  
 SPEC: (20250034BD) MAYARI R-50 ASTM A588 GR B  
 LONG V NOTCH 15 FT LB AT 40 DEG F THICK &  
 THINNEST GA EA HT MAX 5 TON LIFTS  
 MK: A588B MAYARI R-50  
 GF 13-3868F\*

2 (C)	649H558	1	1-1/4	24	294 24FT6IN	2499	66930	89370	24.0
Charpy Results 26-28-32 Avg.28.7									
6 (C)	661H698	7	1-1/4	24	204 17FT0IN	12138	59690	80280	20.0
Charpy Results 43-46-41 <sup>e</sup> Avg.43.3									

## REPORT OF PHYSICAL TESTS AND/OR CHEMICAL ANALYSES

I CERTIFY THE ABOVE RESULTS OF TESTS  
 AND/OR ANALYSES TO BE CORRECT AS CONTAINED IN  
 THE RECORDS OF THE BETHLEHEM STEEL CORPORATION.

*R. N. Peyton*  
 Chief Metallurgist.

SUBSCRIBED & SWORN TO BEFORE ME THIS

28th DAY OF JUN 1972  
*[Signature]*  
 NOTARY PUBLIC COMMONWEALTH OF PENNSYLVANIA  
 My Commission expires November 13, 1973

# BETHLEHEM STEEL CORPORATION

BETHLEHEM, PA. 18016

SHIPMT NO. 604-9394  
BELOW

EXIST ORD CODES 314  
 SALES ORD NO. 604-9394  
 BELOW

---

SOLD TO: CONN CONSTRUCTION CO  
 SHEET #2

---

DATE SHPD: \_\_\_\_\_  
 SHPD FROM: \_\_\_\_\_  
 ROUTE: \_\_\_\_\_

CAR OF VEHICLE NO.      NO. PCS OR PKGS      KIND OF PACKAGE, DESCRIPTION OF ARTICLES, SPECIAL MARKS AND EXCEPTIONS      WEIGHT POUNDS

CUSTOMER & BSC ORDER NOS.      UNITS      DESCRIPTION AND SIZE      WEIGHT

LT#	HEAT #	PCS	DESCRIPTION AND SIZE			WEIGHT	Yield	Tensile	El.	Ben
1 (C)	649H558	8	2-1/4	24	150 12FT6IN	18360	58150	85710	2" 24.0	Ben
		19				48693				

C	Mn	P	S	Si	Ni	Cr	Cu	Va
10	121	013	030	29	33	60	30	07

Charpy Results  
36-38-41<sup>e</sup> Avg. 38.3

REPORT OF PHYSICAL TESTS  
AND/OR CHEMICAL ANALYSES

I CERTIFY THE ABOVE RESULTS OF TESTS  
AND/OR ANALYSES TO BE CORRECT AS CONTAINED IN  
THE RECORDS OF THE BETHLEHEM STEEL CORPORATION.

*R. H. Raydon*  
Chief Metallurgist.

SUBSCRIBED & SWORN TO BEFORE ME THIS  
26th DAY OF JUN 1972  
*J. Burton Jones*  
NOTARY PUBLIC - COMMONWEALTH OF PENNSYLVANIA  
My Commission expires November 13, 1973



# BETHLEHEM STEEL CORPORATION

BETHLEHEM, PA. 18016

CUST ORD 314  
 CODES 203940-00 | 1 | 13 | 16 | 3737 | 180 | 00 | X997  
 SOLD TO 1 | 3 | SHIP TO 13 | 16 | CARR 3737 | 180 | 00 | X997  
 SHIP NO. 604-9395  
 SALE ORD GF 13-3868F  
 COLLECT

SOLD TO	CONN CONSTRUCTION CO BOX 431 NEW CASTLE PA 16103	FROM	CONN CONSTRUCTION CO 108 CROTON AVE NEW CASTLE PA
DATE SHIPD	6/22/72	SHIP FROM	JOHNSTOWN PA
ROUTE	CUSTOMER TRUCK		

TRL TB69632	22	STEEL PLATES	45186
		DUNNAGE FREE 100#	

47-0780

IT#	HEAT #	PCS	DESCRIPTION AND SIZE	WEIGHT
-----	--------	-----	----------------------	--------

INSP: 6 SWORN TESTS  
 SPEC: (20250034BD) MAYARI R-50 ASTM A588 GR B  
 LONG V NOTCH 15 FT LB AT 40 DEG F THICK &  
 THINNEST GA EA HT MAX 5 TON LIFTS

(0760-256-091)

IT#	HEAT #	PCS	SIZE	THICK	WEIGHT	YIELD	TENSILE	EL. 8" BER			
1 (C)	649H558	4	1-1/4	24	306 25FT6IN	10404	66930 89370	24.0			
3 (C)	662E412	1	1-1/4	24	246 20FT6IN	2091	54720 78950	26.0			
	649H558	1				2091	Above				
4 (C)	649H558	8	1-1/4	24	228 19FT0IN	15504	Above				
5 (C)	649H558	8	1-1/4	24	222 18 FT6 IN	15096	Above				
		22				45186					
		C	Mn	P	S	Si	Ni	Cr	Cu	Va	Charpy Results
	649H558	10	121	013	030	29	33	60	30	07	26-28-32 Avg.28.7
	662E412	09	106	010	024	26	29	56	26	04	52-51-50 Avg.53.0

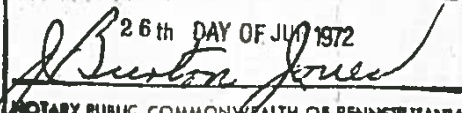
### REPORT OF PHYSICAL TESTS AND/OR CHEMICAL ANALYSES

I CERTIFY THE ABOVE RESULTS OF TESTS AND/OR ANALYSES TO BE CORRECT AS CONTAINED IN THE RECORDS OF THE BETHLEHEM STEEL CORPORATION.

  
 Chief Metallurgist.

SUBSCRIBED & SWORN TO BEFORE ME THIS

26th DAY OF JULY 1972

  
 NOTARY PUBLIC COMMONWEALTH OF PENNSYLVANIA  
 My commission expires November 13, 1978

# BETHLEHEM STEEL CORPORATION

BETHLEHEM, PA. 18016

SHIPMT 604-9615-2/2

NO. AF 13-3881\*

SEE X997

CUST ORG 314  
 CODES 203940-00  
 1 1 05 3737 180  
 1 3 00  
 COLLECT

SOLD TO  
 CONN CONSTRUCTION CO  
 BOX 431  
 NEW CASTLE PA 16103

SHIP TO  
 CONN CONSTRUCTION CO  
 108 CROTON AVE  
 NEW CASTLE PA

DATE SHIPD 6/27/72  
 SHPD FROM JOHNSTOWN PA

ROUTE CUST TRL

CAR OR VEHICLE NO.

NO. PCS  
 OR PKGS

KIND OF PACKAGE, DESCRIPTION OF ARTICLES, SPECIAL MARKS AND EXCEPTIONS

WEIGHT POUNDS

STEEL BARS

47-0793

CUSTOMER & BSC ORDER NOS

UNITS

DESCRIPTION AND SIZE

WEIGHT

HT BDLs PCS

INSP: 6 CHEM & PHYSICAL TESTS  
 SPEC: (110000) ASTM A588 GR B MAYARI R 50  
 LONGITUDINAL CHARPY V NOTCH IMPACT OF 15 FT LBS AT  
 40 DEG F FROM THICKEST & THINNEST GA EA HT MAX 5  
 TON LIFTS

(0911-256-241)

661H632 2 28 7-1/2X1/2 SE 38 0 13400

Yield Tensile 81. Be  
 58960 82550 25.0 01

C Mn P S Si Ni Cr Cu Va Charpy Results  
 10 109 010 021 26 33 57 26 05 40-46-45 Avg.43.7

## REPORT OF PHYSICAL TESTS AND/OR CHEMICAL ANALYSES

I CERTIFY THE ABOVE RESULTS OF TESTS  
 AND/OR ANALYSES TO BE CORRECT AS CONTAINED IN  
 THE RECORDS OF THE BETHLEHEM STEEL CORPORATION.

*R. H. Reynolds*  
 Chief Metallurgist.

SUBSCRIBED & SWORN TO BEFORE ME THIS

29th DAY OF JULY 1972

*R. B. Jones*  
 NOTARY PUBLIC - COMMONWEALTH OF PENNSYLVANIA

My Commission expires November 13, 1973

**BETHLEHEM STEEL CORPORATION**  
BETHLEHEM, PA. 18016

SHIPMT 604-9615-1/2

CUST 314  
 ORDER NO. 203940-00  
 SALES OFF. BELOW  
 X997  
 COLLECT

SOLD TO: CONN CONSTRUCTION CO  
 BOX 431  
 NEW CASTLE PA 16103

SHIP TO: CONN CONSTRUCTION CO  
 108 CROTON AVE  
 NEW CASTLE PA

DATE SHIP 6/27/72  
 SHIP FROM JOHNSTOWN PA  
 ROUTE CUST TRK

CAR OR VEHICLE NO.	NO. PCS OR PKGS	KIND OF PACKAGE, DESCRIPTION OF ARTICLES, SPECIAL MARKS AND EXCEPTIONS	WEIGHT (POUNDS)
TRL TB69632	24	STEEL PLATES	26584
	2 BDLS	STEEL BARS	13400
		DUNNAGE FREE 150#	
		MAX LGTH 38'0"	

47-0793  
 CUSTOMER & BSC ORDER NOS UNITS DESCRIPTION AND SIZE WEIGHT

HT BDLS PCS  
 INSP: 6 SWORN TESTS  
 SPEC: (20250034BD) MAYARI R-50 ASTM A588 GR B LONG  
 V NOTCH 15 FT LB AT 40 DEG F THICK & THINNEST GA EA  
 HEAT GAS CUT ENDS MAX 5 TON LIFTS MKD: A588B MAYARI  
 R 50

(0760-256-091)

GF 13-3868-D"

HT	BDLS	PCS	HT	WT	WT	WT	Yield	Tensile	El. Bend		
2	659H518	1	8	2-1/2	11-1/2	156	10168	58150	81700	29.0	2" OK
						13FT					
3	659H518	1	(4	2-1/2	11-1/2	150	4888	Above			
			(			12FT6IN					
	662H404		(4				4888	54420	78380	28.5	OK
	659H518	10	118	016	030	25	31	58	27	06	
	662H404	09	108	010	023	28	34	56	25	05	
								Charpy Results	Avg.		
								31-33-37	33.7		
								53-57-51	53.7		

**REPORT OF PHYSICAL TESTS  
AND/OR CHEMICAL ANALYSES**

I CERTIFY THE ABOVE RESULTS OF TESTS  
AND/OR ANALYSES TO BE CORRECT AS CONTAINED IN  
THE RECORDS OF THE BETHLEHEM STEEL CORPORATION.

*R. A. Reynolds*  
 Chief Metallurgist.

SUBSCRIBED & SWORN TO BEFORE ME THIS  
 9th DAY OF JULY 1972  
*R. Boston Jones*  
 NOTARY PUBLIC COMMONWEALTH OF PENNSYLVANIA  
 My Commission Expires September 30, 1972

# BETHLEHEM STEEL CORPORATION

BETHLEHEM, PA. 18016

INPMT NO. 604-9615-1/2  
BELOW

CUST ORD CODES	314	SHIP TO	SHIP FROM	NO. PCS OR PKGS	KIND OF PACKAGE, DESCRIPTION OF ARTICLES, SPECIAL MARKS AND EXCEPTIONS	WEIGHT (POUNDS)
SOLD TO	CONN CONSTRUCTION CO SHT 2	SHIP TO				
DATE SHPD		SHIP FROM				
ROUTE						

CUSTOMER & SSC ORDER NOS	UNITS	DESCRIPTION AND SIZE	WEIGHT
HT	BDLS	PCS	

INSPECTION: 6 SWORN TESTS  
 SPEC: (20250034BD) MAYARI R-50 ASTM A588 GR B LONG V  
 NOTCH 15 FT LB AT 40 DEG F THICK & THINNEST GA EA HT  
 MAX 5 TON LIFTS MKD: A588B MAYARIR 50

(0760-256-091)

GF 13-3868-E\*\*

1	662H404	1	8	11/16	10-1/2	406	6640	Yield	Tensile	E1.	Ben
						33FT10IN		56930	82120	8"	0
			24				26584			27.0	

C	Mn	P	S	Si	Ni	Cr	Cu	Va	Charpy Results
09	108	010	023	28	34	56	25	05	39-43-37 Avg.39.7

## REPORT OF PHYSICAL TESTS AND/OR CHEMICAL ANALYSES

I CERTIFY THE ABOVE RESULTS OF TESTS AND/OR ANALYSES TO BE CORRECT AS CONTAINED IN THE RECORDS OF THE BETHLEHEM STEEL CORPORATION.

*R. H. Reynolds*  
 Chief Metallurgist.

SUBSCRIBED & SWORN TO BEFORE ME THIS  
 11th DAY OF  
*J. Boston Jones*  
 NOTARY PUBLIC COMMONWEALTH OF PENNSYLVANIA  
 My Commission expires November 13, 1972



# BETHLEHEM STEEL CORPORATION

BETHLEHEM, PA. 18016

SHIP NO. 604-9076

CUST ORD CODES		BELOW										SHIP NO. 604-9076	
SOLD TO		CONN CONSTRUCTION CO										SHIP TO	
DATE SHPD		SHT 2										FOR	
ROUTE		KIND OF PACKAGE, DESCRIPTION OF ARTICLES, SPECIAL MARKS AND EXCEPTIONS										WEIGHT (POUNDS)	

	C	Mn	P	S	Si	Ni	Cr	Cu	Va	Charpy Results
649H558	10	121	013	030	29	33	60	30	07	26-28-32 Avg.21
662H561	23	53	010	026						
658H532	18	79	010	018						

CUSTOMER & BSC ORDER NOS.	UNITS	DESCRIPTION AND SIZE	WEIGHT	Yield	Tensile	El.	Bend
II HT PCS							
INSP: 6 SWORN TESTS SPEC: (20250034BD) MAYARI R-50 ASTM A588 GR B LONG V NOTCH 15 FT LB AT 40 DEG F THICK & THINNEST GA EA HT MAX 5 TON LIFTS MKD A588B MAYARI R50 (0760-256-091)							
314							
GF 13-3868-F							
6(C)649H558	1	1-1/4 24	204 (17FT)	1734	66930 89370	8" 24.0	OK
INSP: CONWELL & 6 SWORN TESTS SPEC: (30120000BD) ASTM A36 MAX 5 TON LIFTS (0760-175-091)							
332							
GF 13-4459**							
1	662H561	25 3/8	12 222 (18FT6IN)	7075	44040 66320	8" 30.5	OK
	658H532	5		1415	42100 62180	31.0	OK
		46		44460			

### REPORT OF PHYSICAL TESTS AND/OR CHEMICAL ANALYSES

I CERTIFY THE ABOVE RESULTS OF TESTS AND/OR ANALYSES TO BE CORRECT AS CONTAINED IN THE RECORDS OF THE BETHLEHEM STEEL CORPORATION.

*P. H. Ryan*

Chief Metallurgist.

Subscribed and sworn to before me this 22nd day of June 1972

*William Umberger*

Notary Public, Commonwealth of Pennsylvania  
My Commission Expires June 31, 1973

# BETHLEHEM STEEL CORPORATION

BETHLEHEM, PA. 18016

INPMT NO. 604-9076

CUST ORD BELOW  
 CODES 203940-00 | ITEM 1 | UNIT 13 | QTY 16 | PRICE 3737 | WT 180 | TAX 00 | SALE ORD BELOW X997  
 SOLD TO 1 | SHIP TO 3 | CARD | COLLECT

SOLD TO  
 CONN CONSTRUCTION CO  
 BOX 431  
 NEW CASTLE PA 16103

SHIP TO  
 CONN CONSTRUCTION CO  
 108 CROTON AVE  
 NEW CASTLE PA

DATE SHIPD 6/15/72 SHIP FROM JOHNSTOWN PA  
 ROUTE CUST TRUCK

CAR OF VEHICLE NO.	NO. PCS OR PKGS	KIND OF PACKAGE, DESCRIPTION OF ARTICLES, SPECIAL MARKS AND EXCEPTIONS	WEIGHT POUNDS
TRL TB69632	46	STEEL PLATES DUNNAGE FREE 150#	44460
		C Mn P S Si Ni Cr Cu Va Charpy Results	
	649H558	10 121 013 030 29 33 60 30 07	36-38-41 Avg. 38.0
	661H352	10 119 011 029 29 33 57 25 05	50-51-52 " 51.0

47-0759

CUSTOMER & BIC ORDER NOS.	UNITS	DESCRIPTION AND SIZE	WEIGHT
IT HT PCS			

INSP: 6 SWORN TESTS  
 SPEC: (20250034BD) MAYARI R-50 ASTM A588 GR B LONG  
 V NOTCH 15 FT LB AT 40 DEG F THICK & THINNEST GA  
 EA HT GAS CUT ENDS MAX 5 TON LIFTS MKD A588B  
 MAYARI R-50

(0760-256-091)

314  
 GF 13-3868-D

4(P)649H558 5 2-1/4 24 342 26160 Yield Tensile 58150 El. Bend 2" 24.0 OK  
 (28FT6IN)

INSP: 6 SWORN TESTS  
 SPEC: (20250034BD) MAYARI R-50 ASTM A588 GR B LONG  
 V NOTCH 15 FT LB AT 40 DEG F THICK & THINNEST GA EA  
 HT MAX 5 TON LIFTS MKD A588B MAYARI R50

314  
 GF 13-3868-E

2(C)661H352 4 1/2 18 360 3672 Yield Tensile 64390 El. Bend 8" 20.0 OK  
 (30FT)

3(C)661H352 6 1/2 18 288 4404 Above  
 (24FT)

### REPORT OF PHYSICAL TESTS AND/OR CHEMICAL ANALYSES

I CERTIFY THE ABOVE RESULTS OF TESTS  
AND/OR ANALYSES TO BE CORRECT AS CONTAINED IN  
THE RECORDS OF THE BETHLEHEM STEEL CORPORATION.

*R. A. Reynolds*  
 Chief Metallurgist.

Subscribed and sworn to before me this  
 22nd day of June 1972  
*Vivian Unberger*  
 Notary Public, Commonwealth of Pennsylvania  
 My Commission Expires June 1973

PURCHASE ORDER  
**Conn Construction Co.**  
*—Engineers and Contractors—*

Date                     

Area Code 412, 654-6672

BOX 431 - NEW CASTLE, PENNSYLVANIA 16103

To The Lavinson Steel Company  
P.O. Box 1617  
Pittsburgh, Pa. 15230  
  
Attention: Mr. John Stevens

SHIP TO

SHIP	VIA	F. O. B.	A/C NO.
QUANTITY	DESCRIPTION		

IN RE: Forbes Avenue Bridge

The following material to be ASTM A-588

- 36 pcs. 2 x 2 x 5/8 x 0 ft. 6 in.
- 1 Pl 72" x 1/4" x 20 ft. 0 in.
- 1 Pl 96" x 5/8" x 20 ft. 0 in.
- 1 pc. 10" WF (49#) x 8 ft. 0 in.

Please furnish six copies chemical and physical test reports

**CONN CONSTRUCTION CO.**

By \_\_\_\_\_  
PURCHASING AGENT



**THE LEVISON STEEL COMPANY**  
 5. 2014 AND WHARTON STREETS • PITTSBURGH 3, PA.

Our Order MR 6274  
 Att: Mr. Jim Howard  
 Corten

Date: 8-23-72

Report of CHEMICAL and PHYSICAL test of \_\_\_\_\_

Charged to Conn Const. Co.

Shipped to New Castle, Pa.

Customer's Order No. & Date	Heat No.	Analysis					Material	Yield Point Lbs. Per Sq. In.	Tensile Strength Lbs. Per Sq. In.	Elong. in %	Bend Test	Red. o: Area %
		C	MN	P	S	Si						
8-21-72 368												
Copies of actual mill test reports attached												

We hereby certify that the above figures are correct as contained in the records of the company.

L. SIEGEL

PRODUCTION DEPARTMENT - METALLURGICAL  
**United States Steel Corporation**

REPORT OF 7 SHAPES

HOMESTEAD DISTRICT U.S. ORDER NO. 1633175 LOAD TALLY OR INVOICE NO. 163-78070

ORDER NO. 160163400 7/19/71

OR TRUCK NO. NYC 126116 SHIPPER NO. & DATE 4342 8/18/71

THE LEVINSON STEEL CO  
 2014 & WHARTON ST  
 PITTSBURGH PA 15203

SHIP TO  
 THE LEVINSON STEEL COMPANY  
 ZMCKEES ROCKS INDUSTRIAL  
 ENTRANCE NICHOL A/E  
 MCKEES ROCKS PA

ILL SMOKN T/R LAULE TEST RESULTS PER SPEC

002194

STATE OF PENNSYLVANIA  
 COUNTY OF ALLEGHENY  
 SUBSCRIBED AND SIGNED TO REFUSE ME  
 THIS 19th DAY OF August 1971  
*Charles M. Stewart*

*M. Stewart*  
 BEING DUEY SMOKN ACCORDING  
 TO LAB. DEPOSES AND SAYS  
 THAT THE CHEMICAL ANALYSIS  
 AND/OR TESTS SHOWN IN COM-  
 REPORT ARE CORRECT AS OF  
 THE COMPANY.

SIGNATURE M. W. MAXSON, CH. MGT. DATE 8/18/71

ITEM NO.	HEAT NO.	TEST OR PIECE IDENTITY NO.	NO. PCS.	THICKNESS OR SECTION	MATERIAL DESCRIPTION		WEIGHT	YIELD ST. PSI.	TENSILE ST. PSI.	ELONGATION %		% RED. OF AREA	REMARKS
					WIDTH, DIA. OR FT. WT.	LENGTH				IN 0"	IN 2"		
728535			2	W8X58	60-00.00	60-00.00	6960	* 61800	86500	18.0			B
668241			4	W10X49	50-00.00	50-00.00	9600	* 62100	86500	24.0			B
668241			4	W10X49	60-00.00	60-00.00	11760	* 62100	86500	24.0			B

\* YIELD POINT @ 0.050 EXT  
 \* B OR H INDICATE COMPLIANCE OF BRAND OR HOMO TESTS, RESPECTIVELY

HEAT NO.	TYPE	EN SIZE TESTED ACCORDING TO COMPANY RECORDS CONFORMS TO THE REQUIREMENTS OF THE SPECIFICATION LISTED ABOVE																
		C	Min	P	S	SI	CU	NI	CR	MO	SN	AL	N	V	B	TI	CS	CO
26535	ADL	17	107	009	020	P2	30					04.5		05				
668241	ADL	17	107	019	019	P2	30					04						





THE LEVENSON STEEL COMPANY  
 5. 2014 AND WHARTON STREETS • PITTSBURGH 3, PA.

8-22-72

Our Order SZ 8130  
 Attn: Mr. Jim Howard  
 Corten

*Handwritten mark resembling a stylized 'V' or 'U'.*

Report of CHEMICAL and PHYSICAL test of

Charged to **Conn Const. Co.**

Shipped to **New Castle, Pa.**

8-21-72  
 368

Customer's Order No. & Date	Heat No.	Analysis					Material	Yield Point Lbs. Per Sq. In.	Tensile Strength Lbs. Per Sq. In.	Elong. in %	Bend Test	Red. o: Area %
		C	MN	P	S	Si						
Copies of actual mill test reports attached												

We hereby certify that the above figures are correct as contained in the records of the company.

**L. SIEGEL**

*Handwritten signature of L. Siegel*

Form B-21



BEILHEIM STEEL CORPORATION  
METALLURGICAL DEPARTMENT

DATE SHIPPED

3/7/69

SHIPMENT NO.

602-3577-2/2

CUSTOMER INITIAL AND NO.

CO 367977

PLANT

Johnstown

FORM 1 (Rev. 1-65)

SOLD TO

Levinson Steel Co  
S 20th & Wharton Sts  
Pittsburgh Pa 15203

SHIPPED TO SS Pittsburgh Pa

REPORT OF PHYSICAL AND CHEMICAL TESTS

Customer's Order No.	Section Slab or Mill Order No.	Heat No.	Description	Thickness	Yield Point	Tensile Strength	Elong. %	Red. %	Bends	CHEMICAL ANALYSIS					Specifications or Remarks
										C	Mn	P	S		
12331-400		659Y314	Plates	2"	46000	67280	31.0	8"	OK	05	71	08	028	34	Si. Ni. Cr. Cu. Mn Va ASTM A441
		650Y269		2"	57670	86020	21.0	"	"	17	109	017	025	20	Si. Cu. Va. Mn Va ASTM A441

SUBSCRIBED AND SWORN TO BEFORE ME  
 Notary Public, Chemical County, Pa.  
 My Comm. Exp. 12/31/69

Results of the above tests are given as certified in the records of this company.

*W. A. ...*

Per JWC

BETHLEHEM STEEL CORPORATION  
 PITTSBURGH, PA. 15116

PHONE 602-5601  
 BELOW

515570-00 1 15 16 3702 100 X2 X240 COLLECT

SHIP TO: LEVINSON STEEL CO  
 S 20TH & WHARTON STS  
 PITTSBURGH PA 15203

SHIP TO: LEVINSON STEEL CO  
 FAB SHOP  
 S 20TH & WHARTON STS  
 PITTSBURGH PA

7/5/72 JOHNSTOWN PA  
 DESOLT TFR

CAR OR VEHICLE NO.	NO. PCS OR PCS	KIND OF PACKAGE, DESCRIPTION OF ARTICLES, SPECIAL MARKS AND EXCEPTIONS	WEIGHT (POUNDS)
RL 343	10	STEEL PLATES DUNNAGE FREE 100#	41104

5-2980

SHIPMENT & P.C. ORDER NO. UNITS DESCRIPTION AND SIZE WEIGHT

NSP: 4 SWORN TESTS  
 PEC: (2025000000) MAYARI R-50 ASTM A588 GR B MAX  
 TON LIFTS ONE END BLUE & YELLOW  
 (0861-256-101)

HT#	PCS	DESCRIPTION AND SIZE	WEIGHT
(C) 662H868	1	5/8 96 360 30FT	6119
(C) 662H868	2	1/2 96 240 20FT	6528
(P) 662H868	1	1/2 72 360 30FT	3672
(C) 645H218	4	1/2 72 240 20FT	9792
(P) 662H868	1	3/8 72 360 30FT	2754

Heat#	Ga.	YP	TS	EL%-8"	Bends	C	Mn	P	S	Si	Ni	Cr	Cu	Va
562H868	5/8"	63540	95200	21.0	OK	08	112	013	035	26	32	57	27	03
"	1/2"	67180	85640	23.0	"	"	"	"	"	"	"	"	"	"
"	3/8"	54540	78400	24.5	"	"	"	"	"	"	"	"	"	"
645H218	1/2"	70730	91220	21.0	OK	08	120	013	024	29	32	58	24	03

REPORT OF PHYSICAL TESTS  
 AND/OR CHEMICAL ANALYSES

I CERTIFY THE ABOVE RESULTS OF TESTS  
 AND/OR ANALYSES TO BE CORRECT AS CONTAINED IN  
 THE RECORDS OF THE BETHLEHEM STEEL CORPORATION.

*[Handwritten Signature]*

# BETHLEHEM STEEL CORPORATION

BETHLEHEM, PA. 15016

SHIP NO. 602-5638

CUST BELOW  
 515500-00 | 1 | 13 | 16 | 3702 | 160 | X1 | X618  
 TO 2 | D | 4 | TO | | | | | | | COLLECT

SOLD TO LEVINSON STEEL CO S 20TH & WHARTON STS PITTSBURGH PA 15203	LEVINSON STEEL CO PLATE SHOP S 20TH & WHARTON STS PITTSBURGH PA
---	--

DATE SHIPD 6/6/72      SHIP FROM JOHNSTOWN PA      PCB  
 ROUTE MOTOR FRT EXP

CAR OR VEHICLE NO.	NO. PCS OR PKGS	KIND OF PACKAGE, DESCRIPTION OF ARTICLES, SPECIAL MARKS AND EXCEPTIONS	WEIGHT (POUNDS)
TRL TA 52481	23	STEEL PLATES DUNNAGE FREE 50#	44472

	C.	Mn.	P.	S.	Si.	Ni.	Cr.	Cu.	Va.
645H090	10	114	010	019	36	33	58	25	05
662H733	08	112	012	040	30	35	59	21	05
650H562	24	47	010	021					

03-2609  
CUSTOMER & BIC ORDER NOS.      UNITS      DESCRIPTION AND SIZE      WEIGHT

HT#	PCS	DESCRIPTION AND SIZE	WEIGHT
-----	-----	----------------------	--------

INSP: 4 SWORN TESTS  
 SPEC: (20250000RC) MAYARI R-50 ASTM A588 GR B  
 MAX 5 TON LIFTS ONE END BLUE & YELLOW

(0861-256-101)

B5223-400 GF 13-4756										
3(P)	645H090	2	1/2	72	240 20FT	4896	66820	92650	21.0	Bends OK
	662H733	2				4896	61220	91840	21.0	"
4(C)	662H733	10	1/4	72	240 20FT	12240	64810	85180	21.5	"

INSP: 4 SWORN TESTS  
 SPEC: (30120000RC) ASTM A36 MAX 5 TON LIFTS

(0861-175-101)

B5151-400 GF 13-4669*										
1(C)	650H562	4	5/16	96	360 30FT	12240	43180	66260	30.0	"

### REPORT OF PHYSICAL TESTS AND/OR CHEMICAL ANALYSES

I CERTIFY THE ABOVE RESULTS OF TESTS  
 AND/OR ANALYSES TO BE CORRECT AS CONTAINED IN  
 THE RECORDS OF THE BETHLEHEM STEEL CORPORATION.

*[Signature]*

SUBSCRIBED & SWORN TO BEFORE ME THIS

9th DAY OF JUNE 1972

*[Signature]*

NOTARY PUBLIC COMMONWEALTH OF PENNSYLVANIA

My Commission expires November 13, 1972

Department YOUNGSTOWN SHEET AND TUBE COMPANY

**CERTIFICATE OF TESTS**

Customer YOUNGSTOWN SHEET AND TUBE COMPANY

R.S. No. 40571

Car No. 104000 30205

Specimen S 2011 Description Sheet Dimensions 15003 Date 7/20 7/21 7/25/72

Customer's Order No.	Our Order No.	Material and Specification No.	Quantity	Heat No.	Yield Dividing P.S.I.	Tensile Strength P.S.I.	Elong. In. 8 inches	% Red'n of Area	Bend Test	Chemical Analysis - %									
										C	Mn	P	S						
B-5690-400	12375 A	1/4 X 72 X 020		1183	38310	62940	28.5		OK	.21	.88	.008	.028						
"	"	"		5984	39060	67150	27.5		OK	.23	.89	.007	.028						
B-5695-400	43370 A	3/16 X 60 X 120		1189	39310	62480	34.0		OK	.21	.88	.008	.028						
		OIL PIPING STD ASTM A-36																	

The undersigned, in behalf of Youngstown Sheet and Tube Company, hereby certifies that the above materials have been inspected and tested in accordance with the methods prescribed in the applicable specifications and the results of such inspection and tests are shown above. In determining properties or characteristics for which no methods of inspection or testing are prescribed by said specifications, the standard mill inspection and testing practices of Youngstown Sheet and Tube Company have been applied. Unless it appears otherwise in the results of such inspection and tests shown above, the undersigned employee of Youngstown Sheet and Tube Company believes that said materials conform to said specifications.

7/27/72

*[Signature]*  
YOUNGSTOWN SHEET AND TUBE COMPANY

PURCHASE ORDER  
**Conn Construction Co.**  
*—Engineers and Contractors—*

Date \_\_\_\_\_

Area Code 412, 654-6672

BOX 431 - NEW CASTLE, PENNSYLVANIA 16103

To Cosmec, Inc.  
 70 South Street  
 Walpole, Mass. 02081

SHIP TO

Attention: R. L. Burhoe

SHIP	VIA	F. O. B.	A/C NO.
QUANTITY	DESCRIPTION		

IN RE: Rehabilitation of Forbes Ave. Bridge

4 Plates 14" x 1-1/2" x 2 ft. 0 in.  
 For Press Fit

Specifications A.A.S.H.O. M107

ASTM B-22 Alloy "D" Modified up to 2% lead

Delivery as soon as possible

**CONN CONSTRUCTION CO.**

By \_\_\_\_\_  
 PURCHASING AGENT

PURCHASE ORDER  
**Conn Construction Co.**  
*—Engineers and Contractors—*

Date Sept. 5, 1977

Area Code 412, 654-6672

BOX 431 - NEW CASTLE, PENNSYLVANIA 16103

To Services, Ltd. A-1, 1900  
1016 University Ave.  
Pittsburgh, Pa.

SHIP TO

Attention: Mr. J. J. Jones

SHIP	VIA	F. O. B.	A/C NO
QUANTITY	DESCRIPTION		

81 pcs. 10" channel (305) x 25 lb. 3 in.

42 pcs. 8" channel (240) x 20 lb. 3 in.

Notes: Post visit to LEVING  
 No. 316

1 pc. 10" WF (110#) . 33-ft. 6 in.

The above material to be used as follows:

Notes: Forbes approval

3 pcs. 10" channel (305) x 25 lb. 3 in.

Above material to be ASTM A-36 with same test requirements as our Purchase Order No. 314

Six copies chemical and physical test reports required

CONN CONSTRUCTION CO.

By \_\_\_\_\_  
 PURCHASING AGENT





**REPORT OF MECHANICAL AND CHEMICAL TESTS**

**BETHLEHEM STEEL CORPORATION  
METALLURGICAL DEPARTMENT**



CUSTOMER'S ORDER NO. 379	MILL ORDER NO. 013-0496-C	SHIPMENT NO. 104-42444- 2/2	SHIPPED FROM BETHLEHEM	DATE SHIPPED 9/30/72
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CONN CONSTRUCTION CO BOX 431 NEW CASTLE PA 16103	SHIP TO	CONN CONSTRUCTION CO 108 CROTON AVE NEW CASTLE PA
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SPECIFICATION  
ASTM A588-71

INSPECTION—TEST REPORTS  
10560 6 SWORN TEST REPORTS

HEAT NO.	NO. PIECES	DESCRIPTION	LENGTH			WEIGHT	YIELD POINT	TENSILE STRENGTH	ELONG		BENDS
			Feet	In.	Frct.				%	IN	
183H177	5	C10X30	25	3		3788	51847	71434	25.2	8	OK
184H089	2	C10X30	25	3		1515	52989	75187	24.5	8	OK
124J312	1	C10X30	25	3		757	60088	88474	18.2	8	OK

SUBSCRIBED AND SWORN  
TO BEFORE ME

OCT 3 1972

*Andrew Jackson*  
Notary Public  
My Commission Expires 1-1-73  
City of Bethlehem  
Northampton County, Pa.

HEAT NO.	C	Mn	P	S	Si	Cu	Ni	Cr	Mo	V	N	Ti	Zr
	183H177	.13	.80	.009	.020	.17	.28	.33	.45		.017		
184H089	.15	.85	.017	.009	.22	.31	.31	.46		.020			
124J312	.16	.89	.012	.016	.22	.30	.38	.51		.020			

*E. A. Reid*

I CERTIFY THE ABOVE RESULTS TO BE CORRECT AS CONTAINED IN THE RECORDS OF THE COMPANY.

E. A. REID  
CHIEF METALLURGIST

W. J. W.  
PER

File

# CONN CONSTRUCTION CO.

*Engineers and Contractors*

AREA CODE 412 654-6672  
BOX 431 - NEW CASTLE, PENNSYLVANIA 16103

September 18, 1972

City of Pittsburgh  
City-County Building  
Room 618  
Department of Supplies  
Pittsburgh, Pennsylvania 15219

IN RE: Rehabilitation of Forbes Avenue  
Bridge over Fern Hollow and other  
work incidental thereto

Gentlemen:

We enclose herewith one (1) copy each of our Purchase  
Orders No. 299 and 355 with test reports attached.

Very truly yours,

*Converse Branscome, Jr.*  
Converse Branscome, Jr.  
President

bd

encl:

*An Equal Opportunity Employer*

**PURCHASE ORDER**  
**Conn Construction Co.**  
*—Engineers and Contractors—*

Date Aug 30 1972

Area Code 412, 654-6672

BOX 431 - NEW CASTLE, PENNSYLVANIA 16103

To Erie Bolt Corporation  
 1325 Liberty Street  
 Erie, Pa. 16501

SHIP TO

Attention: Mr. Joe Teft

SHIP	VIA	F. O. B.	A/C NO.
QUANTITY	DESCRIPTION		

IN RE: Forbes Ave. Bridge

500 Stud Bolts 7/8" Round x 0' 11-1/2 in.  
 2" thread one end  
 3 1/2" thread one end

300 Stud Bolts 7/8" Round x 1' 3 in.  
 2 1/2" thread one end  
 4" thread one end

Above material to meet or exceed ASTM A-325 specifications

Please furnish six (6) copies of material certification.

Delivery required by September 15, 1972 but not before Sept. 1, 1972

**CONN CONSTRUCTION CO.**

By \_\_\_\_\_  
 PURCHASING AGENT

# ERIE BOLT CORPORATION

1325 LIBERTY STREET, ERIE, PENNSYLVANIA 16501  
TELEPHONE (814) 456-4287

6  
8-10-72

Report of tests of STUDS Spec. A325  
Customer CONN CONSTRUCTION COMPANY Order No. 355

Size	<u>7/8</u>						
Shop Order No.	<u>6-93-1, 2</u>						
Heat No.	<u>311715</u>						
Chemical Analysis	<u>4142 1/2</u>		<u>7/8 x 11 1/2</u>	<u>551</u>			
C.	<u>.43</u>						
Mn.	<u>.97</u>		<u>7/8 x 15</u>	<u>527</u>			
P.	<u>.010</u>						
S.	<u>.018</u>						
Si.	<u>.32</u>						
Ni.							
Cr.	<u>.97</u>						
V.							
Mo.	<u>.18</u>						
Dimension of Tests							
Tensile Strength	<u>142,940</u>						
Per Sq. In.							
Beam Read'g							
Yield Strength	<u>128,320</u>						
Per Sq. In.							
Beam Read'g							
Elongation							
In. .... Inches							
Percent	<u>20.9</u>						
Reduced Section							
Dia.							
Area							
Percent	<u>64.4</u>						
Brinell	<u>286</u>						
Rockwell C							
Fracture							
Charpy							
Bend							
Mag. Particle Insp.							
Additional Tests							

Sworn to and Subscribed before me this.....Day of.....19.....

We hereby certify that the above data is a true copy of the data furnished us by the producing mill and the data resulting from tests performed at Erie Bolt Corporation.

*R. Anderson*

ENGINEER OF TESTS

**PURCHASE ORDER**  
**Conn Construction Co.**  
*—Engineers and Contractors—*

Date March 27, 1972

Area Code 412, 654-6672

BOX 431 - NEW CASTLE, PENNSYLVANIA 16103

To United States Steel Corporation  
P. O. Box 208  
Pittsburgh, Pennsylvania  
Attention: Mr. R. Cefola

SHIP TO

SHIP	VIA	F. O. B.	A/C NO.
QUANTITY	DESCRIPTION		

IN RE: Reconstruction of Forbes Avenue Bridge over Fern Hollow and other work incidental thereto

- 4 Pl 16 x 1-1/8 x 53 ft. 8 in. <sup>2</sup>
- 4 Pl 16 x 1-3/4 x 52 ft. 6 in. <sup>2</sup>
- 26 Pl 16 x 1-3/4 x 53 ft. 8 in. <sup>9-3-2-1-2-4-2</sup>
- ① Pl 24 x 2-1/2 x 48 ft. 0 in.
- 4 Pl 24 x 2-1/2 x 51 ft. 6 in.
- ④ Pl 24 x 2-1/2 x 55 ft. 0 in.
  
- 15 Pl 56 x 3/8 x 53 ft. 8 in.
- 2 Pl 56 x 3/8 x 65 ft. 0 in.
- ② Pl 80 x 13/16 x 21 ft. 8 in.
- ② Pl 88 x 1/2 x 25 ft. 0 in.
- ② Pl 122 x 11/16 x 24 ft. 6 in.
  
- ③5 Bars 4 x 7/16 x 30 ft. 0 in.
- 95 Bars 4 x 3/8 x 21 ft. 0 in.
  
- 7 pcs. 21" WF (55#) x 66 ft. 5 in. <sup>1</sup>
- ①4 pcs. 21" WF (55#) x 72 ft. 1 in. <sup>2</sup>
- 14 pcs. 21" WF (55#) x 55 ft. 5 in. <sup>1</sup>
- 14 pcs. 21" WF (62#) x 60 ft. 10 in. <sup>11</sup>
  
- ⑧ pcs. 12" WF (40#) x 26 ft. 4 in.
- ②4 pcs. 12" Channel (25#) x 26 ft. 4 in.
- No camber required in beams
  
- ④ Pl 42 x 7 x 3 ft. 6 in.

All material ASTM A-588 Six copies chemical and physical test reports required. PLEASE NOTE ENCLOSED TEST REQUIREMENTS

**CONN CONSTRUCTION CO.**

By \_\_\_\_\_  
PURCHASING AGENT









PRODUCTION DEPARTMENT — METALLURGICAL  
**United States Steel Corporation**

TEST REPORT OF \_\_\_\_\_ PLATES

WORKS HOMESTEAD DISTRICT U.S. ORDER NO. LA60825 LOAD FACTORY OR INVOICE NO. 163-52126

CUSTOMER ORDER NO. 299 3/27/72

CAR OR TRUCK NO. C194609 PA SHIPPER NO. & DATE 96208 6/28/72 48

SOLD TO **CONN CONSTRUCTION CO**  
 P O BOX 431  
 NEW CASTLE PA 16103

OR BY **CONN FAR & ENGR CO SIDING**  
 P O BOX 1  
 INDUSTRIAL STREET  
 NEW CASTLE PA

SPEC **USS-COR-TEK-B-ASTM-A-588-71-GRADE-A-CHRPY-IMPV-NTG-LONG-TESTS-15FT/LBS-AT-PLUS-40-DEGR-F-FOR-HEAT-LOT-QUAL-IMPEN-ASTM-A-370-PAR-19**

INSPECTION T/R **MILL CERT T/R LADLE TEST RESULTS PER SPEC 1 T/R TO RD REBB**

WE HEREBY CERTIFY THAT THE CHEMICAL ANALYSIS AND/OR THE TESTS SHOWN IN THIS REPORT ARE CORRECT AS OBTAINED IN THE RECORDS OF THE COMPANY.

SIGNATURE M. W. MAXSON, CH. MET.

DATE 06/29/72

ITEM NO.	HEAT NO.	TEST OR PIECE IDENTITY NO.	NO. PCS.	THICKNESS OR SECTION	MATERIAL DESCRIPTION		WEIGHT	YIELD ST. PSI.	TENSILE STR. PSI.	ELONGATION %		% RED. OF AREA
					WIDTH, DIA. OR FT. WT.	LENGTH				IN 8"	IN 2"	
02	72C260		1	1 3/4	16	630	4997	* 53100	91800	25.0		
		Longitudinal V Notch Charpy	4	2 1/2	24	Plus 40 Deg. F.	15-20-18 Fc. Lbs.					
05	67C262		1	10x10	16	Plus 40 Deg. F.	42020	* 63900	94900	26.0		
		Longitudinal V Notch Charpy	1	10x10	16	Plus 40 Deg. F.	50-68-44 Fc. Lbs.					

YIELD POINT @ 0.050 EXT.

SPECIMEN SIZE TESTED ACCORDING TO COMPANY RECORDS CONFORMS TO THE REQUIREMENTS OF THE SPECIFICATION LISTED ABOVE

\* B OR H INDICATE COMPLIANCE OF BEND OR HOMO TESTS, RESPECTIVELY

CHEMICAL ANALYSIS

HEAT NO.	TYPE	C	Mn	P	S	SI	Cu	Ni	Cr	Mo	Sn	Al	N	V	B	Ti	Co	Co
72C260	LADLE	116	115	013	014	124	34	116	55			03		05				
67C262	LADLE	117	118	010	021	124	34	117	56			04		06				



PRODUCTION DEPARTMENT — METALLURGICAL  
**United States Steel Corporation**

TEST REPORT OF \_\_\_\_\_ PLATES

WORKS HOMESTEAD DISTRICT U.S. ORDER NO. LA60825 LOAD TALLY OR INVOICE NO. 163-60375

CUSTOMER ORDER NO. 299-3/27/72

CAR OR TRUCK NO. T864631 PA SHIPPER NO. & DATE 18269 7/31/72 100

CONN CONSTRUCTION CO  
 P O BOX 431  
 NEW CASTLE PA 16103

SHIP TO  
 CONN FAB & ENGR CO SIDING  
 PALE RR  
 INDUSTRIAL STREET  
 NEW CASTLE PA

USS-COR-TEN-8-ASTM-A-588-71-GRADE-A-CHRPY-IMP-V-NTCH-LONG-TM-TESTS-19  
 15FT/LBS-AT-PLUS-40-DEG-F-FOR-HEAT-LOI-GUAL-IMPER-ASTM-A-370-PAR-19

MILL CERT T/R LAOLE TEST RESULTS PER SPEC 1 T/R TO RD WEBB 010139

WE HEREBY CERTIFY THAT THE CHEMICAL ANALYSIS AND/OR TESTS SHOWN IN THIS REPORT ARE THE CORRECT AND TRUE RECORDS OF THE COMPANY.

SIGNATURE M. W. MAXSON, CH. MGT.  
 DATE \_\_\_\_\_

ITEM NO.	HEAT NO.	TEST OR PIECE IDENTITY NO.	NO. PCS.	THICKNESS OR SECTION	MATERIAL DESCRIPTION		WEIGHT	YIELD PT. PSI.	TENSILE STR. PSI.	ELONGATION %		% RED OF AREA
					WIDTH, DIA. OR FT. WT.	LENGTH				IN 8"	IN 2"	
07	74C184		1	3/8	56	644	3831	61100	86000	22.0		
								68200	90500	21.0		
08	74C184		2	3/8	36	780	9280	61100	86000	22.0		
								68200	90500	21.0		
3/4 Size Longitudinal V Notch Charpy Impact Tests 7.5 x 10 ksi Made at Pius 40 Deg F. 66-72-70 Be Lbs.												
<b>YIELD POINT = 0050 EXT.</b>												

\* B OR H INDICATE COMPLIANCE OF BEND OR HOMO TESTS, RESPECTIVELY

CHEMICAL ANALYSIS

HEAT NO.	TYPE	C	Mn	P	S	SI	CU	NI	C	Mo	Sn	Al	N	V	B	Ti	Co
74C184	LAOL	15	115	010	026	23	29	09	56			03		03			

SPECIMEN SIZE TESTED ACCORDING TO COMPANY RECORDS CONFORMS TO THE REQUIREMENTS OF THE SPECIFICATION LISTED ABOVE

FORM G-20831 REV 6/71 02 000 0441



PRODUCTION DEPARTMENT - METALLURGICAL  
**United States Steel Corporation**

PLATES

TEST REPORT OF

WORKS HOMESTEAD DISTRICT U.S. ORDER NO. LA60A25

LOAD TALLY OR INVOICE NO. 163-59458

CUSTOMER ORDER NO. 299 3/27/72

CAR OR TRUCK NO. TB696631 PA SHIPPER NO. & DATE 18186 7/28/72 100

CONN CONSTRUCTION CO  
 P O BOX 431  
 NEW CASTLE PA 16103

SHIP TO  
 CONN FAB & ENGR CO SIDING  
 PALE RR  
 INDUSTRIAL STREET  
 NEW CASTLE PA

USS-COR-TEN-B-ASTY-A-588-71-GR-A-A-C-CHRY-IMP-V-NTCH-LONG-M-TESTIS-  
 13FT/LBS-AT-PLUS-40-DEG-F-FOR-HEAT-LO-CHRY-IMP-V-NTCH-LONG-M-TESTIS-

MILL CERT T/R LADLE TEST RESULTS PER SPEC 1 T/R TO RD WEBB

WE HEREBY CERTIFY  
 THAT THE CHEMICAL ANALYSIS  
 AND/OR TESTS SHOWN AS  
 REPORTED IN THE RECORDS OF  
 THE COMPANY.

SIGNATURE M. W. MAXSON, CH. MGT.  
 DATE 07/28/72

ITEM NO.	HEAT NO.	TEST OR PIECE IDENTITY NO.	NO. PCS.	THICKNESS OR SECTION	MATERIAL DESCRIPTION		WEIGHT	YIELD PT. PSI	TENSILE STR. PSI	ELONGATION %		% RED OF AREA
					WIDTH, DIA. OR FT. WT.	LENGTH				IN 1"	IN 2"	
07	65C110		2	3/8	56	644	7662	60400	82600	23.0	24.0	
	3/4 Size	Longitudinal V	Notch	Charpy	Tests 7.5 x 10 Not Made at Plus							
07	74C184		10	3/8	56	644	38310	61100	86800	22.0	21.0	
	3/4 Size	Longitudinal V	Notch	Charpy	Impact Tests 7.5 x 10 Not Made at Plus							
* YIELD POINT P. 0050 EXT.												

SPECIMEN SIZE TESTED ACCORDING TO COMPANY RECORDS CONFORMS TO THE REQUIREMENTS OF THE SPECIFICATION LISTED ABOVE

\* B OR H INDICATE COMPLIANCE OF BEND OR HOMO TESTS, RESPECTIVELY

HEAT NO.	TYPE	C	Mn	P	S	SI	Cu	Ni	Cr	Mo	Sn	Al	N	V	B	Ti	Co	Co
65C110	LADL: 15		115	010	016	23	29	05	47			054		04				
74C184	LADL: 15		115	010	025	23	29	05	56			03		03				



PRODUCTION DEPARTMENT - METALLURGICAL  
**United States Steel Corporation**

TEST REPORT OF \_\_\_\_\_ SHAPES \_\_\_\_\_

WORKS HOMESTEAD DISTRICT U.S. ORDER NO. LA60827 LOAD TALLY OR 162445157

CUSTOMER ORDER NO. 299 3/27/72

CAR OR TRUCK NO. PA C19441 SHIPPER NO. & DATE 9281 5/21/72

SOLD TO  
 CONN CONSTRUCTION CO  
 P O BOX 431  
 NEW CASTLE PA 16103  
 CONN FAP & ENGR CO SIDING  
 P O BOX 111  
 INDUSTRIAL STREET  
 NEW CASTLE PA

SPEC. 16  
 HI STRENGTH STRL USS COR TEN B ASTM A-588-71 GRADE A CHARPY IMPACT V-NOTCH  
 LONG FOR HEAT LOT QUALIFICATION TO ASTM A-370-68 15 FT LBS AT PLUS 40 DEG F  
 MILL CERT T/R LADLE TEST RESULTS PER SPEC 1 T/R TO RD WEBB

WE HEREBY CERTIFY  
 THAT THE CHEMICAL ANALYSIS  
 AND/OR TESTS SHOWN IN THIS  
 REPORT ARE CORRECT AS CON-  
 TAINED IN THE RECORDS OF  
 THE COMPANY.

SIGNATURE M. W. MAXSON, CH. MGR.  
 DATE 5/21/72

ITEM NO.	HEAT NO.	TEST OR PIECE IDENTITY NO.	NO. PCS.	THICKNESS OR SECTION	MATERIAL DESCRIPTION		WEIGHT	YIELD ST. PSI.	TENSILE STR. PSI.	ELONGATION %		% RED OF AREA
					WIDTH, DIA. OR FT. WT.	LENGTH				IN 8"	IN 2"	
16	65C273		14	N21X55	55-55.00	42672	6860 6840	85200 85800	23.0 21.0			
					LONGITUDINAL V NOTCH CHARPY IMPACT TEST 7.5X10MM MADE AT PLUS 40 DEG. F.							
					LONGITUDINAL V NOTCH CHARPY IMPACT TEST 7.5X10MM MADE AT PLUS 40 DEG. F.							

SPECIMEN SIZE TESTED ACCORDING TO COMPANY RECORDS CONFORMS TO THE REQUIREMENTS OF THE SPECIFICATION LISTED ABOVE

HEAT NO.	TYPE	C	Mn	P	S	SI	Cu	NI	Cr	Mo	Sn	Al	N	V	B	TI	Ch	Co
65C273	LADLE	15	118	008	021	24	31	105	157			04		04				



PRODUCTION DEPARTMENT - METALLURGICAL  
**United States Steel Corporation**

TEST REPORT OF \_\_\_\_\_ PLATES \_\_\_\_\_

WORKS - HONESTEAD DISTRICT U.S. ORDER NO. LA60825 LOAD TALLY OR INVOICE NO. 163-49853

CUSTOMER ORDER NO. 299 3/27/72

CAR OR TRUCK NO. 94639 PA SHIPPER NO. & DATE 96144 6/19/72 49

SOLD TO  
 CONN CONSTRUCTION CO  
 P O BOX 431  
 NEW CASTLE PA 16103

SHIP TO  
 CONN FAB & ENGR CO SIDING  
 INDUSTRIAL STREET  
 NEW CASTLE PA

SPEC  
 USS COR TEN B ASTM A 598 B 71 GRADE A CHAMPY IMPER V NOTCH LONGWY TESTS -  
 15 FT LBS AT PLUS 40 DEG F FOR HEAT LOT QUAL IMPER ASTM A 370 PAR 19

MILL CERT T/R LADLE TEST RESULTS PER SPEC 1 T/R TO RD 4EBB

010139

WE HEREBY CERTIFY  
 THAT THE CHEMICAL ANALYSIS  
 AND/OR TESTS SHOWN IN THIS  
 REPORT ARE THE CORRECT  
 AND PAID IN THE RECORDS  
 OF THE COMPANY.

SIGNATURE H. W. MAXSON, CH. MET.  
 DATE 6/20/72

ITEM NO.	HEAT NO.	TEST OR PIECE IDENTITY NO.	NO. PCS.	THICKNESS OR SECTION	MATERIAL DESCRIPTION			WEIGHT	YIELD ST. PSI.	TENSILE STR. PSI.	ELONGATION %		% RED OF AREA
					WIDTH, DIA. OR FT. WT.	LENGTH					IN 8"	IN 2"	
03	70C118		9	1 3/4	16	644	45972	* 65900	93900			24.0	
Longitudinal V Notch Charpy Impact Test 10 X 10 MI Made at Plus 40 Deg. F. 28-25-28 Ft. Lbs.													

SPECIMEN SIZE TESTED ACCORDING TO COMPANY RECORDS CONFORMS TO THE REQUIREMENTS OF THE SPECIFICATION LISTED ABOVE

\* B OR H INDICATE COMPLIANCE OF BEND OR HOMO TESTS, RESPECTIVELY

HEAT NO.	TYPE	CHEMICAL ANALYSIS															
		C	Mn	P	S	SI	Cu	Ni	Cr	Mo	Sn	Al	N	V	B	Ti	Co
70C118	LADL	16	114	007	025	23	32	16	54			03		05			





PRODUCTION DEPARTMENT - METALLURGICAL  
**United States Steel Corporation**

TEST REPORT OF \_\_\_\_\_ SHAPES \_\_\_\_\_

WORKS HOMESTEAD DISTRICT U.S. ORDER NO. LA60827 LOAD TALLY OR INVOICE NO. 163-49173

CUSTOMER ORDER NO. 299 3/27/72

CAR OR TRUCK NO. PA C19460 SHIPPER NO. & DATE 3272 6/16/72

CONN CONSTRUCTION CO  
 P O BOX 491  
 NEW CASTLE PA 16103

SHIP TO  
 CONN FAB & ENGR CO SIDING  
 INDUSTRIAL STREET  
 NEW CASTLE PA

USS COR TEN-B STEEL APPLICATION TO GRAD A=370-68-15 FT LBS V-NOTCH 10  
 NG-FOR HEAT-LOT-QUALIFICATION-ASTM-A-370-68-15 FT LBS V-NOTCH 10  
 -DEG-F

MILL CERT T/R LADLE TEST RESULTS PER SPEC 1 T/R TO RD WEBB 010222

WE HEREBY CERTIFY  
 THAT THE CHEMICAL ANALYSIS  
 AND/OR TESTS SHOWN IN THIS  
 REPORT ARE THE CORRECT  
 REPRESENTATIVE RECORDS OF  
 THE COMPANY.

SIGNATURE M. W. MAXSON, CH. MET.

DATE 06/17/72

ITEM NO.	HEAT NO.	TEST OR PIECE IDENTITY NO.	NO. PCS.	MATERIAL DESCRIPTION		WEIGHT	YIELD PT. PSI.	TENSILE STR. PSI.	ELONGATION %		% RED OF AREA
				THICKNESS OR SECTION	WIDTH, DIA. OR FT. WT.				IN 2"	IN 4"	
14	65C273	1	1	W21X55	66" X 10 MM Made at Plus 40 Deg. F.	3653	68600	85200	23.0		8
17	65C273	11	11	W21X62	3/4 Size Longitudinal V Notch Charpy Impact 7.5 X 10 MM Made at Plus 40 Deg. F.	41492	68600	85200	23.0		8

CHAMER SIZE TESTED ACCORDING TO COMPANY RECORDS CONFORMS TO THE REQUIREMENTS OF THE SPECIFICATION LISTED ABOVE

\* B OR H INDICATE COMPLIANCE OF BEND OR HOMO TESTS, RESPECTIVELY

HEAT NO.	TYPE	C	Mn	P	S	SI	Cu	Ni	C	Mo	Sn	Al	N	V	B	Ti	CS	CO	
																			15
65C273	LADL																		





PRODUCTION DEPARTMENT — METALLURGICAL  
**United States Steel Corporation**

TEST REPORT OF \_\_\_\_\_ SHAPES \_\_\_\_\_

WORKS **HONESTEAD DISTRICT** U.S. ORDER NO. **LA60827** LOAD TALLY OR INVOICE NO. **16347130**

CUSTOMER ORDER NO. **299 3/27/72**

CAR OR TRUCK NO. **PA C99460** SHIPPER NO. & DATE **9919 6/27/72**

SOLD TO **CONN CONSTRUCTION CO**  
**P O BOX 431**  
**NEW CASTLE PA 16103**

SHIP TO **CONN FAB & ENGR CO SIDING**  
**PALE RR**  
**INDUSTRIAL STREET**  
**NEW CASTLE PA**

SPEC **USS-COR-TEN-B-STEEL-ASTM-A-588-71-GRADE-A-CHARPY-IMPACT-V-NOTCH-40**  
**NG-FOR-HEAT-LOT-QUALIFICATION-TO-ASTM-A-370-68-15-FT-LBS-0-PLUS-40**  
**-DEG-F**

INSPECTION T/R **MILL CERT T/R LADLE TEST RESULTS PER SPEC 1 T/R TO RD WEBB**

WE HEREBY CERTIFY THAT THE CHEMICAL ANALYSTS REPORT ARE CORRECT AND OBTAINED IN THE RECORDS OF THE COMPANY.

SIGNATURE **M. W. MAXSON, CH. MET.**

DATE **06/08/72**

ITEM NO.	HEAT NO.	TEST OR PIECE IDENTITY NO.	NO. PCS.	THICKNESS OR SECTION	MATERIAL DESCRIPTION		WEIGHT	YIELD ST. PSI.	TENSILE ST. PSI.	ELONGATION %		% RED. OF AREA
					WIDTH, DIA. OR FT. WT.	LENGTH				IN 8"	IN 2"	
15	650273		2	W21X55	72-01.00	7930	68600 68400	85200 85800	23.0 21.0			
3/4 Longitudinal V Notch Charpy Impact Test: 7.5 X 10 MM Made at plus 40 Deg F. 55-50-54 Ft. lbs.												

SPECIMEN SIZE TESTED ACCORDING TO COMPANY RECORDS CONFORMS TO THE REQUIREMENTS OF THE SPECIFICATION LISTED ABOVE

\* B OR H INDICATE COMPLIANCE OF BEND OR HOMO TESTS, RESPECTIVELY

HEAT NO.	TYPE	C	Mn	P	S	Si	Cu	Ni	Cr	Mo	Sn	Al	N	V	B	Ti	Cb	Co	CHEMICAL ANALYSIS		
																			ADL	ADL	
650273	ADL	15	118	008	021	24	31	05	57			04		04							



PRODUCTION DEPARTMENT — METALLURGICAL  
**United States Steel Corporation**

TEST REPORT OF \_\_\_\_\_ SHAPES \_\_\_\_\_

WORKS ADLERSTEAD DISTRICT U.S.S. ORDER NO. LA6827 LOAD TALLY OR INVOICE NO. 153-46196

CUSTOMER ORDER NO. 199 3/27/72

CAR OR TRUCK NO. PA 689460 SHIPPER NO. & DATE 9747 6/02/72

SOLD TO  
 CONN CONSTRUCTION CO  
 P O BOX 431  
 NEW CASTLE PA 16103

SHIP TO  
 CONN FAB & ENGR CO SIDING  
 P&L RR  
 INDUSTRIAL STREET  
 NEW CASTLE PA

SPEC  
 USS CORN STEEL CASTING ASSOCIATION TO ASTM A-377-68 15 FT. LBS. PLUS 40  
 NEG. FOR HEAT LOT QUALIFICATION

INSPECTION T/R  
 MILL SENT T/R LABLE TEST RESULTS PER SPEC I T/R TO CD EDD 010222

DATE 06/02/72  
 SIGNATURE H. L. MAXSON, CH. MET.  
 THAT THE HEREBY CERTIFY  
 THE TESTS SHOW THIS  
 REPORT ARE CORRECT AS  
 TAILED IN THE RECORDS OF  
 THE COMPANY.

ITEM NO.	HEAT NO.	TEST OR PIECE IDENTITY NO.	NO. PCS.	MATERIAL DESCRIPTION		WEIGHT	YIELD PT. PSI	TENSILE STR. PSI	ELONGATION %		% RED. OF AREA
				THICKNESS OR SECTION	WIDTH, DIA. OR FT. WT.				LENGTH	IN 6"	
15	050273		12	*21X55	72" X 11.00	47580	68600 6840	85200 85800	23.0 21.0		
		3/4 Size Long V Notch Charpy Impact Test			7.5 X 10 MM Made at plus 40 Deg F.	55-50-54 Ft. Lbs.					

SPECIMEN SIZE TESTED ACCORDING TO COMPANY RECORDS CONFORMS TO THE REQUIREMENTS OF THE SPECIFICATION LISTED ABOVE

CHEMICAL ANALYSIS

HEAT NO.	TYPE	C	Mn	P	S	SI	Cu	NI	Cr	Mg	Sn	Al	N	V	B	Ti	CH	CO
050273	LADE	110	410	006	021	24	31	05	57			04		04				



PRODUCTION DEPARTMENT - METALLURGICAL  
**United States Steel Corporation**

TEST REPORT OF \_\_\_\_\_ PLATES

WORKS - **HOHESTEAD DISTRICT** U.S.S. ORDER NO. **LA60825** LOAD TALLY OR INVOICE NO. **16349950**

CUSTOMER ORDER NO. **299 3/27/72**

CAR OR TRUCK NO. **CJ94609 PA** SHIPPER NO. & DATE **96147 6/20/72** **48**

CONN CONSTRUCTION CO  
 P O BOX 431  
 NEW CASTLE PA 16103

CONN FAB & ENGR CO SIDING  
 P O BOX 11  
 INDUSTRIAL STREET  
 NEW CASTLE PA

USS-COR-TEN-B-ASTM-A-588-71-GRADE-A-CHRPY-IMP-V-NTCH-LONG-M-TESTS-  
 15FT/LBS-AT-PLUS-40-DEG-F-FOR-HEAT-LOT-EQUAL-IMPER-ASTM-A-390-PAR-19

MILL CERT T/R LAULE TEST RESULTS PER SPEC 1 T/R TO RD WEBB **010139**

WE HEREBY CERTIFY  
 THAT THE CHEMICAL ANALYSIS  
 AND/OR TESTS SHOWN AS  
 REPORTED IN THE RECORDS  
 OBTAINED IN THE RECORDS  
 OF THE COMPANY.

SIGNATURE: **M. W. MAXSON, CH. MET.**

DATE: **06/21/72**

ITEM NO.	HEAT NO.	TEST OR PIECE IDENTITY NO.	NO. PCS.	THICKNESS OR SECTION	MATERIAL DESCRIPTION		WEIGHT	YIELD ST. PSI.	TENSILE ST. PSI.	ELONGATION %		% RED. OF AREA
					WIDTH, DIA. OR FT. WT.	LENGTH				IN 8"	IN 2"	
03	70C118		3	1 3/4	16	644	15324	* 65900	93900		24.0	
Full Size Longitudinal V Notch Charpy Impact Test 10 X 10 MM Made at Plus 40 Deg. F. 28-25-28 Fc. Lbs.												
*YIELD POINT @ .0050 EXT.												

SPECIMEN SIZE TESTED ACCORDING TO COMPANY RECORDS CONFORMS TO THE REQUIREMENTS OF THE SPECIFICATION LISTED ABOVE

\* B OR H INDICATE COMPLIANCE OF BEND OR HOMO TESTS, RESPECTIVELY

HEAT NO.	TYPE	C	Mn	P	S	SI	Cu	Ni	Cr	Mo	Sn	Al	N	V	B	Ti	Co
70C118	LA DL	16	114	007	025	23	32	16	54			03		05			



PRODUCTION DEPARTMENT — METALLURGICAL  
**United States Steel Corporation**

TEST REPORT OF \_\_\_\_\_ PLATES

WORKS HOMESTEAD DISTRICT U.S. ORDER NO. LA60825 LOAD TALLY OR INVOICE NO. 163-49951

CUSTOMER ORDER NO. 299 3/27/72

CAR OR TRUCK NO. CJ94609 PA

SHIPPER NO. & DATE 96148 6/20/72

AG

SOLD TO  
 CONN CONSTRUCTION CO  
 P O BOX 431  
 NEW CASTLE PA 16103

SHIP TO  
 CONN FAB & ENGR CO SIDING  
 INDUSTRIAL STREET  
 NEW CASTLE PA

SPEC  
 USS-COR-1EN-B-ASTM-A-588-71-GR-A-CH-IMP-V-NTCH-LONG-M-TESTS-  
 15FT/LBS-AT-PLUS-40-DEG-F-FOR-HEAT-LOT-QUAL-IMP-V-ASTM-A-390-PAR-19

INSPECTION T/R  
 MILL CERT T/R LADLE TEST RESULTS PER SPEC 1 T/R TO RD WEBB

WE HEREBY CERTIFY  
 THAT THE CHEMICAL ANALYSIS  
 AND/OR TESTS SHOWN IN THIS  
 REPORT ARE CORRECT AS  
 OBTAINED IN THE RECORDS OF  
 THE COMPANY.

DATE 06/21/72  
 SIGNATURE M. W. MAXSON, CH. MET.

ITEM NO.	HEAT NO.	TEST OR PIECE IDENTITY NO.	MATERIAL DESCRIPTION		WEIGHT	YIELD ST. (PSI)	TENSILE ST. (PSI)	ELONGATION %		% RED. OF AREA
			NO. PCS.	THICKNESS OR SECTION				WIDTH, DIA. OR FT. WT.	IN 8"	
03	70C118		2	1 3/4	16	644	10216	65900	93900	24.0
Full Size Longitudinal V Notch Charpy Impact Test 10 X 10 MM Made at Plus 40 Deg. F. 28-25-28 K. lbs.										

YIELD POINT @ 0050 EXT.

SPECIMEN SIZE TESTED ACCORDING TO COMPANY RECORDS CONFORMS TO THE REQUIREMENTS OF THE SPECIFICATION LISTED ABOVE

CHEMICAL ANALYSIS

HEAT NO.	TYPE	C	Mn	P	S	SI	Cu	NI	Cr	Mo	Sn	Al	N	V	B	Ti	Ca	Co
70C118	LADL	16	114	007	025	23	32	16	54			03		05				



PRODUCTION DEPARTMENT — METALLURGICAL  
**United States Steel Corporation**

TEST REPORT OF \_\_\_\_\_ PLATES \_\_\_\_\_

WORKS: HOBBSSTEAD DISTRICT U.S.S. ORDER NO. LA64025 LOAD TALLY OR INVOICE NO. 163-50001

CUSTOMER ORDER NO. 999 3/27/72

CAR OR TRUCK NO. CJ94609 SHIPPER NO. & DATE 96176 6/23/72 49

SOLD TO: CONN CONSTRUCTION CO  
 P O BOX 431  
 NEW CASTLE PA 16103  
 COMM: FAU & ENGR CO SIDING  
 P&LE RR  
 INDUSTRIAL STREET  
 NEW CASTLE PA

SPEC: USS-COR-TEMP-ASTM-A-588-71-GR-40-DEG-F-FOR-HEAT-LOTT-EQUAL-IMPEN-ASTM-A-390-TESTS-15FT/LBS-AT-PLUS-40-DEG-F-FOR-HEAT-LOTT-EQUAL-IMPEN-ASTM-A-390-TESTS-

MILL: CERT T/R LADLE TEST RESULTS PER SPEC 1 T/R TO RD 010139  
 DATE: 6/24/72  
 SIGNATURE: MAXSON, CH MET.

ITEM NO.	HEAT NO.	TEST OR PIECE IDENTITY NO.	MATERIAL DESCRIPTION		WEIGHT	YIELD ST. PSI	TENSILE STR. PSI	ELONGATION %		% RED OF AREA
			NO. PCS.	THICKNESS OR SECTION				WIDTH, DIA. OR FT. WT.	LENGTH	
03	70C118		7	1 3/4	16	35756	93900	24.0		
03	73C224		2	1 3/4	16	10216	89200	24.0		

\*YIELD POINT = 0050 LXT

SPECIMEN SIZE TESTED ACCORDING TO COMPANY RECORDS CONFORMS TO THE REQUIREMENTS OF THE SPECIFICATION LISTED ABOVE

\* B OR H INDICATE COMPLIANCE OF BRID OR HOMO TESTS, RESPECTIVELY

HEAT NO.	TYPE	C	Mn	P	S	SI	Cu	Ni	Cr	Mo	Sn	Al	N	V	B	Ti	Co	Co	CHEMICAL ANALYSIS		
																			70C118	73C224	LA01
			114	007	025	23	32	16	54			03		05							
			110	007	020	23	29	14	53			03		04							





PRODUCTION DEPARTMENT — METALLURGICAL  
**United States Steel Corporation**

TEST REPORT OF \_\_\_\_\_ SHAPES \_\_\_\_\_

WORKS HUNSTEAD DISTRICT U.S.S. ORDER NO. LA41827 LOAD TALLY OR INVOICE NO. 163-50900

CUSTOMER ORDER NO. 299-342772 SHIPPER NO. & DATE 3599-6/23/72

CAR OR TRUCK NO. PA C-19460

SOLD TO  
 CONN CONSTRUCTION CO  
 P O BOX 431  
 NEW CASTLE PA 16103

CONN FAN & ENGR CO SIDING  
 P O BOX 11  
 INDUSTRIAL STREET  
 NEW CASTLE PA

SPEC. USS-COR-TEMP-STEEL-ASTM-A-588-71-GRADE-A-37-CHARPY-IMPACT-V-NOTCH-48  
NG-FOR-HEAT-LOT-QUALIFICATION-TD-ASTM-A-37-CHARPY-IMPACT-V-NOTCH-48  
DEGF

WE HEREBY CERTIFY  
 THAT THE CHEMICAL ANALYSIS  
 AND/OR TESTS SHOWN AS  
 TAINTED IN THE RECORDS  
 OF THE COMPANY.

INSP. T/R MILL CERT T/R LADLE TEST RESULTS PER SPEC 1 T/R TO RD WEBB C10222  
 DATE 6/24/72  
 SIGNATURE MAXSON, CH. MET.

ITEM NO.	HEAT NO.	TEST OR PIECE IDENTITY NO.	NO. PCS.	THICKNESS OR SECTION	MATERIAL DESCRIPTION		WEIGHT	YIELD ST. PSL.	TENSILE STR. PSL.	ELONGATION %		% RED OF AREA
					WIDTH, DIA. OR FT. WT.	LENGTH				IN 8"	IN 2"	
18	730143		8	W12X40	26"04.00	8424	* 70500	88000	21.0			
				Half Size Longitudinal V Notch Charpy Impact Test 5 X 10 MM Made at Plus 40 Deg. F.				32-37-35	Ft. Lbs.			
19	710237		8	C12X25	26"04.00	5264	*60400	80500	23.0			
				3/4 Size Longitudinal V Notch Charpy Impact Test 7.5 X 10 MM Made at Plus 40 Deg. F.				69-54-84	Ft. Lbs.			
19	740184		16	C12X25	26"04.00	10528	* 63300	87400	23.0			
				3/4 Size Longitudinal V Notch Charpy Impact Test 7.5 X 10 MM Made at Plus 40 Deg. F.				50-51-48	Ft. Lbs.			

\* B OR H INDICATE COMPLIANCE OF BRND OR HOMO TESTS RESPECTIVELY

HEAT NO.	TYPE	CHEMICAL ANALYSIS															
		C	Mn	P	S	Si	Cu	Ni	Cr	Mo	Sn	Al	N	V	B	Ti	Co
730143	LADL	115	113	012	023	23	31	17	56		03		03				
710237	LADL	115	112	014	024	20	31	104	56		03		03				
740184	LADL	115	115	010	026	23	29	109	56		03		03				



PRODUCTION DEPARTMENT - METALLURGICAL  
**United States Steel Corporation**

PLATES

TEST REPORT OF \_\_\_\_\_  
 WORKS **HOMESTEAD DISTRICT** U.S.S. ORDER NO. **LA60828** LOAD TALLY OR INVOICE NO. **163-51439**  
 CUSTOMER ORDER NO. **299 3/27/72**  
 CAR OR TRUCK NO. **C194608** SHIPPER NO. & DATE **96193 6/26/72** **48**

CONN CONSTRUCTION CO  
 P O BOX 431  
 NEW CASTLE PA 16103

SHIP TO  
 CONN FAB & ENGR CO SIDING  
 INDUSTRIAL STREET  
 NEW CASTLE PA

USS-COR-TEN-8-STEEL-ASTM-A588-71-GRADE-A

MILL CERT T/R LADLE TEST RESULTS PER SPEC

WE HEREBY CERTIFY  
 THAT THE CHEMICAL ANALYSIS  
 AND/OR TESTS SHOWN IN THIS  
 REPORT ARE CORRECT AS OF  
 THE RECORDS OF THE COMPANY.

SIGNATURE **M.W. MAXSON, CH. MET.**

DATE **06/27/72**

ITEM NO.	HEAT NO.	TEST OR PIECE IDENTITY NO.	NO. PCS.	THICKNESS OR SECTION	MATERIAL DESCRIPTION		WEIGHT	YIELD PT. PSI.	TENSILE STR. PSI.	ELONGATION %		% RED. OF AREA
					WIDTH, D/A, OR FT. WT.	LENGTH				IN 8"	IN 2"	
20	72C304		4	7.0000	42	42	13992	* 53200 * 58200	85500 85300	29.0 27.0		B
<p>* YIELD POINT @ .0050 EXT.</p> <p>* B OR H INDICATE COMPLIANCE OF BEND OR HOMO TESTS, RESPECTIVELY</p>												

HEAT NO.	TYPE	C	Mn	P	S	SI	CU	NI	C	MO	SN	AL	N	V	B	TI	CP	CO
72C304	ADL	16	106	008	018	22	29	17	58			03		06				



PRODUCTION DEPARTMENT — METALLURGICAL  
**United States Steel Corporation**

TEST REPORT OF \_\_\_\_\_ PLATES

WORKS: HONESIEAN DISTRICT U.S. ORDER NO. LA61825 LOAD TALLY OR INVOICE NO. 16355228

CUSTOMER ORDER NO. 999 3127172 SHIPPER NO. & DATE 96289 7112172 418

CAR OR TRUCK NO. C194608

CONN CONSTRUCTION CO  
 P O BOX 431  
 NEW CASTLE PA 16103

CONN FAR & ENGR CO SIDING  
 SALE RR  
 INDUSTRIAL STREET  
 NEW CASTLE PA

USS-COR-TEST-PLAST-A-588-71-GRAD-A-CHRPY-IMP-V-NOTCH-LONG-TESTS-1SFT/LBS-AT-PLUS-40-DEG-F-FOR-HEAT-LOT-DUAL-PER-ASTM-A-370-PAR-19

MILL CERT T/R LADLE TEST RESULTS PER SPEC 1 T/R TO RD NEBB

WE HEREBY CERTIFY THAT THE CHEMICAL ANALYSIS AND/OR ARE THE CORRECT AS OBTAINED IN THE RECORDS OF THE COMPANY.

INSPECTION DATE: 0610 SIGNATURE: H. W. MAXSON, CH. MET.

ITEM NO.	HEAT NO.	TEST OR PIECE IDENTITY NO.	NO. PCS.	THICKNESS OR SECTION	MATERIAL DESCRIPTION		WEIGHT	YIELD ST. PSI.	TENSILE STR. PSI.	ELONGATION %		% RED. OF AREA
					WIDTH, DIA. OR FT. WT.	LENGTH				IN 8"	IN 2"	
01	70C150		4	1 1/8	16	644	13136	* 67700	88400	24.0		
		Full Size		Charpy Impact Test 10x10mm Notch		Made @ Plus 40 Deg. F.	9791	5442530 Lbs.	84500		23.0	
04	67C262		1	2 1/2	24	576	9791	* 53900	94900		26.0	
		Full Size		Charpy Impact Test 10x10mm Notch		Made @ Plus 40 Deg. F.		50-68-64 Fl. Lbs.				

\* B OR H INDICATE COMPLIANCE OF BRAND OR HOMO TESTS, RESPECTIVELY

YIELD POINT @ 0050 EXT.

HEAT NO.	TYPE	C	Mn	P	S	Si	Cu	Ni	Cr	Mo	Sn	Al	N	V	B	Ti	Co
70C150	LADLE	117	118	013	022	22	30	117	53			03		05			
67C262	LADLE	117	118	010	020	24	34	117	56			04		06			

CHEMICAL ANALYSIS

FORM G-20831 REV 67 02 000 0441



PRODUCTION DEPARTMENT - METALLURGICAL  
**United States Steel Corporation**

TEST REPORT OF PLATES

WORKS HOMESTEAD DISTRICT U.S.S. ORDER NO. LA611825

LOAD TALLY OR INVOICE NO. 163551438

CUSTOMER ORDER NO. 299 3/27/72

CAR OR TRUCK NO. CJ94609

SHIPPER NO. & DATE 96191

6/26/72 48

CONN CONSTRUCTION CO  
 P O BOX 421  
 NEW CASTLE PA 16103

CONN FAB & ENGR CO SIDING  
 P & F RR  
 INDUSTRIAL STREET  
 NEW CASTLE PA

USS-COR-ITEM-B-ASTM-A-588-71-GRADE-A-CHEMPY-IMP-V-NOTCH-LONG-T-TESTS-  
 15FT/LBS-AT-PLUS-40-DEG-F-FOR-HEAT-LOT-QUAL-PER-ASTM-A-370-PAR-19

MILL CERT T/R LADLE TEST RESULTS PER SPEC 1 T/R TD RD WEBB

WE HEREBY CERTIFY  
 THE CHEMICAL ANALYSIS  
 REPORT ARE CORRECT AS  
 TAINTED IN THE RECORDS  
 OF THE COMPANY.

SIGNATURE H. M. MAXSON, CH. VET.

DATE 06/27/72

ITEM NO.	HEAT NO.	TEST OR PIECE IDENTITY NO.	MATERIAL DESCRIPTION		WEIGHT	YIELD ST. PSI.	TENSILE ST. PSI.	ELONGATION %		% RED. OF AREA	B I I I I I I I I I I I							
			NO. PCS.	THICKNESS OR SECTION				WIDTH, DIA. OR FT. WT.	LENGTH			IN 8"	IN 2"					
05	670262	Full Size	4	2 1/2	44876	* 63900	94900		26.0		B							
		Longitudinal V Notch Charpy Impact Test 10 X 10MM Made at plus 40 Deg. F.					50-68-64 Ft. Lbs.											
*YIELD POINT @ .0050 EXT.																		
*B OR H INDICATE COMPLIANCE OF BEND OR HOMO TESTS, RESPECTIVELY																		
REMARKS SIZE TESTED ACCORDING TO COMPANY RECORDS CONFORMS TO THE REQUIREMENTS OF THE SPECIFICATION LISTED ABOVE																		
HEAT NO.	TYPE	C	Mn	P	S	Si	Cu	Ni	Cr	Mo	Sn	Al	N	V	B	Ti	Co	Co
670262	LADL	17	118	010	020	24	34	17	56			04		06				



PRODUCTION DEPARTMENT - METALLURGICAL  
**United States Steel Corporation**

TEST REPORT OF PLATES

FORMS HOHESTEAD DISTRICT U.S.S. ORDER NO. LA60825 LOAD TALLY OR INVOICE NO. 163-51437

CUSTOMER ORDER NO. 299 3/27/72 SHIPPER NO. & DATE 47172 6/26/72 160

CAR OR TRUCK NO. CJ4608

CONN CONSTRUCTION CO  
 P O BOX 431  
 NEW CASTLE PA 16103

SHIP TO  
 CONN FAB & ENGR CO SIDING  
 PALE RR  
 INDUSTRIAL STREET  
 NEW CASTLE PA

USS-CUR-TEN-B-ASTM-A-588-71-GRADE-A-CHARPY-IMP-V-NOTCH-LONG-T-TESTS-15FT/LBS-AT-PLUS-40-DEG-F-FOR-HEAT-LOT-QUAL-PER-ASTM-A-370-PAR-19

MILL CERT T/R LADLE TEST RESULTS PER SPEC 1 T/R TO RD WEBB 010139

WE HEREBY CERTIFY THAT THE CHEMICAL ANALYSIS AND/OR TESTS SHOWN IN THIS REPORT ARE CORRECT AND MAINTAINED IN THE RECORDS OF THE COMPANY.

SIGNATURE N.W. MAXSON, CH. MGT.

DATE 06/27/72

ITEM NO.	HEAT NO.	TEST OR PIECE IDENTITY NO.	NO. PCS.	THICKNESS OR SECTION	WIDTH, DIA. OR FT. WT.	LENGTH	WEIGHT	YIELD PT. PSI.	TENSILE STR. PSI.	ELONGATION %		% REDUCED AREA	BRIK INDEX
										IN 8"	IN 2"		
09	74C184	Full Size Longitudinal V Notch	2	13/16	80	260	9576	* 59200	86100	23.0	23.0		B
		Full Size Longitudinal V Notch Charpy Impact Test 10 X 10MM Made at plus 40 Deg. F.						* 58300	82700				
11	74C184	Full Size Longitudinal V Notch Charpy Impact Test 10 X 10MM Made at plus 40 Deg. F.	2	11/16	122	294	13972	* 59200	86100	23.0	23.0		B
		*YIELD POINT @ 0050 EXT.						* 58300	82700				
								53-28-29 Ft. Lbs.					

\* B OR H INDICATE COMPLIANCE OF BRID OR HOMO TESTS, RESPECTIVELY

CIMEN SIZE TESTED ACCORDING TO COMPANY RECORDS CONFORMS TO THE REQUIREMENTS OF THE SPECIFICATION LISTED ABOVE

HEAT NO.	TYPE	IS	Mn	P	S	Si	Cu	Ni	C	Mo	Sn	Al	N	V	B	Ti	Ch	Co
74C184	LADLE	15	115	010	026	23	29	109	56			03		03				





PRODUCTION DEPARTMENT - METALLURGICAL  
**United States Steel Corporation**

TEST REPORT OF PLATES

WORKS HONESTEAD DISTRICT U.S.S. ORDER NO. 1A6082E LOAD TALLY OR INVOICE NO. 163-55229

CUSTOMER ORDER NO. 299 3/27/72

CAR OR TRUCK NO. CJ94608 SHIPPER NO. & DATE 96290 7/12/72 48

CONN CONSTRUCTION CO  
 P O BOX 431  
 NEW CASTLE PA 16103

CONN FAB & ENGR CO SIDING  
 PALE RR  
 INDUSTRIAL STREET  
 NEW CASTLE PA

USS-COR-TEN-H-ASTM-A-588-71-GRADE-A-CHRPY-I-PP-V-ATCH-LONG-TESTS-  
 15FT/LBS-AT-PLUS-40-DEG-F-FOR-HEAT-LOT-SUAL-IPER-ASTM-A-370-PAR-19

MILL CERT T/R LADLE TEST RESULTS PER SPEC 1 T/R TO 90 6EBB 010139

WE HEREBY CERTIFY  
 THAT THE CHEMICAL ANALYSIS  
 AND/OR TESTS SHOWN IN THIS  
 REPORT ARE CORRECT AS CON-  
 TAINED IN THE RECORDS OF  
 THE COMPANY.

SIGNATURE M. W. MAXSON, CH. MET.  
 DATE 07/13/72

ITEM NO.	HEAT NO.	TEST OR PIECE IDENTITY NO.	MATERIAL DESCRIPTION		WEIGHT	YIELD ST. PSI	TENSILE ST. PSI	ELONGATION %		% RED. OF AREA	BRIELLY
			NO. PCS.	THICKNESS OR SECTION				IN 8"	IN 2"		
02	70C150		2	1 3/4	9994	* 67700	88400	24.0		9	
						* 57200	84500	23.0			
03	70C150		2	1 3/4	10216	* 67700	88400	24.0		9	
						* 57200	84500	23.0			

\* YIELD POINT @ .0050 PLT.  
 \* B OR H INDICATE COMPLIANCE OF BEND OR HOWO TESTS, RESPECTIVELY

HEAT NO.	TYPE	C	Mn	P	S	Si	Cu	Ni	Cr	Mo	Sn	Al	N	V	B	Ti	Cb	Co
70C150	LA1L	15	173	013	022	22	30	17	53			73		05				



PRODUCTION DEPARTMENT - METALLURGICAL  
**United States Steel Corporation**  
 PLATES

TEST REPORT OF

HOMESTEAD DISTRICT U.S. ORDER NO. LA60825 LOAD TALLY OR INVOICE NO. 163-57330

WORKS 299 3/27/72

CUSTOMER ORDER NO. CJ94608 PA SHIPPER NO. & DATE 96349 7/20/72 160

CONN CONSTRUCTION CO  
 P O BOX 431  
 NEW CASTLE PA 16103

SHIP TO  
 CONN FAB & ENGR CO SIDING  
 PALE RR  
 INDUSTRIAL STREET  
 NEW CASTLE PA

USS-COR-TEN-B-ASTM-A-588-F1-GRAB-A-CHEM-IMP-V-NITR-LONG-TESTS-15FT/LBS-AT-PLUS-40-DEG-F-FOR-HEAT-LOT-QUAL-PER-ASTM-A-370-PAR-19

MILL CERT T/R LAULE TEST RESULTS PER SPEC 1 T/R TO RD WEBB

WE HEREBY CERTIFY THAT THE CHEMICAL ANALYSIS AND/OR TESTS SHOWN IN THIS REPORT ARE CORRECT AS OBTAINED IN THE RECORDS OF THE COMPANY.

SIGNATURE: H.W. MAXSON, CH. MET.

0610

DATE 07/21/72

ITEM NO.	HEAT NO.	TEST OR PIECE IDENTITY NO.	NO. PCS.	THICKNESS OR SECTION	MATERIAL DESCRIPTION			WEIGHT	YIELD PT. PSI	TENSILE STR. PSI	ELONGATION %		% RED. OF AREA
					WIDTH, DIA. OR FT. WT.	LENGTH					IN 8"	IN 2"	
02	70C150		1	1 3/4	16	630	4997	* 57200	84500	23.0			
		Full Size Longitudinal											
		V Notch Charpy Impact Tests 10 x 10 MM Made at Plus 40 Deg F.											
03	70C150		1	1 3/4	16	644	5108	* 57200	84500	23.0			
		Full Size Longitudinal											
		V Notch Charpy Impact Tests 10 x 10 MM Made at Plus 40 Deg F.											

\* YIELD POINT @ .0050 EXT.

PRECIPITAN SIZE TESTED ACCORDING TO COMPANY RECORDS CONFORMS TO THE REQUIREMENTS OF THE SPECIFICATION LISTED ABOVE

\* B OR H INDICATE COMPLIANCE OF BEND OR HOMO TESTS, RESPECTIVELY

ITEM NO.	HEAT NO.	TEST OR PIECE IDENTITY NO.	NO. PCS.	THICKNESS OR SECTION	WIDTH, DIA. OR FT. WT.	LENGTH	WEIGHT	YIELD PT. PSI	TENSILE STR. PSI	ELONGATION %	% RED. OF AREA
70C150	LAULE	15	108	013	022	22	30	17	53	03	05





PRODUCTION DEPARTMENT - METALLURGICAL  
**United States Steel Corporation**

TEST REPORT OF \_\_\_\_\_ PLATES

WORKS HOMESTEAD DISTRICT U.S. ORDER NO. LA60825 LOAD TALLY OR INVOICE NO. 163-51436

CUSTOMER ORDER NO. 299 3/27/72

CAR OR TRUCK NO. CJ94608 SHIPPER NO. & DATE 16850 6/26/72 100

CONN CONSTRUCTION CO  
 P O BOX 431  
 NEW CASTLE PA 16103

CONN FAB & ENGR CO SIDING  
 PALE RR  
 INDUSTRIAL STREET  
 NEW CASTLE PA

USS-CUR-TEN-B-ASTM-A-588-71-GRADE-A-CHRPY-IMP-V-NYCH-LONG-TESTS-  
 15FT/LBS-AT-PLUS-40-DEG-F-FOR-HEAT-LOT-QUAL-PER-ASTM-A-370-PAR-19

HILL CERT T/R LADLE TEST RESULTS PER SPEC 1 T/R TO RD 3EBB 010139

WE HEREBY CERTIFY THAT THE CHEMICAL ANALYSIS AND/OR TESTS SHOWN IN THIS REPORT ARE CORRECT AS TAINTED IN THE RECORDS OF THE COMPANY.

SIGNATURE M. W. MAXSON, CH. MET.  
 DATE 06/27/72

ITEM NO.	HEAT NO.	TEST OR PIECE IDENTITY NO.	MATERIAL DESCRIPTION				WEIGHT	YIELD PT. PSI.	TENSILE STR. PSI.	ELONGATION %		% RED OF AREA	BRI 111 112 113 114 *
			NO. PCS.	THICKNESS OR SECTION	WIDTH, DIA. OR FT. WT.	LENGTH				IN 8"	IN 2"		
10	74C184		2	1/2	88	300	7480	61100 * 68200	86800 90500	22.0 21.0		B	
Full Size Longitudinal V Notch Charpy Impact Test 10 X 10MM Made at plus 40 Deg. F.			*YIELD POINT @ .0050 EXT.										

CIMEN SIZE TESTED ACCORDING TO COMPANY RECORDS CONFORMS TO THE REQUIREMENTS OF THE SPECIFICATION LISTED ABOVE

\* B OR H INDICATE COMPLIANCE OF BEND OR HOMO TESTS, RESPECTIVELY

HEAT NO.	TYPE	C	Mn	P	S	SI	CU	NI	Cr	Mg	Sn	AL	N	V	B	Ti	CP	Co
74C184	LADL	115	115	010	026	23	29	09	56			03		03				

**PURCHASE ORDER**  
**Conn Construction Co.**

*Engineers and Contractors*

Date September 20, 1972

Area Code 412, 654-6672

BOX 431 - NEW CASTLE, PENNSYLVANIA 16103

To Metallurgical Engineering Division  
Four Liberty Center  
Pittsburgh, Pennsylvania

SHIP TO

attended by: T. J. Ober

SHIP	VIA	F. O. B.	A/C NO.
------	-----	----------	---------

QUANTITY	DESCRIPTION
10	PLS 70" x 1/2" x 12 ft. 0 in.
1	PLS 72" x 1/4-1/8" x 12 ft. 0 in.
4	PLS 72" x 1/2" x 12 ft. 0 in.
3	PLS 72" x 1/2" x 12 ft. 0 in.
3	PLS 72" x 1/2" x 12 ft. 0 in.

Customer check of drawings last week of October 1, 1972.  
 Six copies furnished for physical test reports.  
 Note special work requirements on ends material.

**CONN CONSTRUCTION CO.**

By \_\_\_\_\_  
 PURCHASING AGENT

# BETHLEHEM STEEL CORPORATION

BETHLEHEM, PA. 18016

SHIP NO. 602-9182

CUST ORD 384

SALE BELOW

CODES 203940-00

PLT 1

PLT 13

PLT 16

PLT 3737

PLT 204

PLT 00

PLT X997

PLT 1

PLT 3

PLT 13

PLT 16

PLT 3737

PLT 204

PLT 00

PLT X997

COLLECT

TO: CONN CONSTRUCTION CO  
BOX 431  
NEW CASTLE PA 16103

TO: CONN CONSTRUCTION CO  
108 CROTON AVE  
NEW CASTLE PA

DATE SHIP 10/2/72

SHIP FROM JOHNSTOWN PA

FOR

ROUTE CUST TRUCK

CAR OR VEHICLE NO.

NO. PCS OF PKGS

KIND OF PACKAGE, DESCRIPTION OF ARTICLES, SPECIAL MARKS AND EXCEPTIONS

WEIGHT POUNDS

TRL TB69631

21

STEEL PLATES  
DUNNAGE FREE 80#

35251

C. Mn. P. S.  
661J365 .21 .73 .019 .029 Si. Ni. Cr. Cu.  $\frac{1}{16}$ .  
650J220 .08 1.10 .010 .024 .30 .30 .60 .27 .05

Charpy Results  
33-38-34 Avg. 35.0

03-4239

CUSTOMER & P.C. ORDER NO.

UNITS

DESCRIPTION AND SIZE

WEIGHT

IT HT PCS

INSP: 6 SWORN TESTS

SPEC: (30120000BD) ASTM A36 MAX 5 TON LIFTS

(0861-175-101)

GF 13-0906\*

1 661J365

3

5/8

72

144

5508

Y.P. 38810

T.S. 72640

El. 8" Bends 27.0 OK

(12FT)

2 661J365

10

1/2

72

144

14690

(12FT)

3 661J365

4

3/8

72

144

4404

48650

76580

27.0

(12FT)

INSP: 6 SWORN TESTS

SPEC: (20250034BD) MAYARI R-50 ASTM A588 GR B LONG  
V NOTCH 15 FT LB AT 40 DEG F THICK & THINNEST GA EA  
HT MAX 5 TON LIFTS MKD A588B MAYARI R50

(0861-256-101)

GF 13-0906-B\*

1 650J220

3

1/2

72

144

4407

61690

83520

26.0

(12FT)

## REPORT OF PHYSICAL TESTS AND/OR CHEMICAL ANALYSES

I CERTIFY THE ABOVE RESULTS OF TESTS  
AND/OR ANALYSES TO BE CORRECT AS CONTAINED IN  
THE RECORDS OF THE BETHLEHEM STEEL CORPORATION.

*R. A. Raydon*  
Chief Metallurgist

SUBSCRIBED & SWORN TO BEFORE ME THIS

10th DAY OF OCT 1972

*R. A. Raydon*

NOTARY PUBLIC COMMONWEALTH OF PENNSYLVANIA

My Commission expires November 13, 1972



PURCHASE ORDER  
**Conn Construction Co.**  
*—Engineers and Contractors—*

Date \_\_\_\_\_

Area Code 412, 654-6672

BOX 431 - NEW CASTLE, PENNSYLVANIA 16103

To The Levinson Steel Company  
P.O. Box 1617  
Pittsburgh, Pa. 15230  
Attention: Len Schuetz

SHIP TO

SHIP	VIA	F. O. B.	A/C NO.
QUANTITY	DESCRIPTION		

IN RE: Forbes Avenue

- 1 Plate 96" x 3/8" x 20 ft. 0 in.
- 1 Plate 84" x 1/2" x 20 ft. 0 in.

Material to be ASTM A-588 Six copies chemical and physical test reports.

Your delivery to New Castle, Pa. Thursday Sept. 21, 1972

**CONN CONSTRUCTION CO.**

By \_\_\_\_\_  
PURCHASING AGENT



THE LEVISON STEEL COMPANY  
 5. 2014 AND WHARTON STREETS • PITTSBURGH 3, PA.

Date: 9-20-72

Our Order SZ 8567  
 Attn: Corten

*10 copies*

Report of CHEMICAL and PHYSICAL test of  
 Charged to **Conn Const.**

**New Castle, Pa.**

Customer's Order No. & Date	Heat No.	Analysis					Material	Yield Point Lbs. Per Sq. In.	Tensile Strength Lbs. Per Sq. In.	Elong. in %	Bend Test	Red. of Area %
		C	MN	P	S	Si						
385 9-19-72												
Copies of actual mill test reports attached												

Form B-21

We hereby certify that the above figures are correct as contained in the records of the company.

**L. SIEGEL**

*L. Siegel*

# BETHLEHEM STEEL CORPORATION

BETHLEHEM, PA. 18016

602-8554

BELOW

SHIPMT  
BELOW

L. 17	212	SHIP TO	SHIP TO	SHIP TO	SHIP TO	SHIP TO	SHIP TO	SHIP TO	SHIP TO	SHIP TO	SHIP TO	SHIP TO	SHIP TO	SHIP TO	SHIP TO	SHIP TO	SHIP TO	SHIP TO	SHIP TO	SHIP TO
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LEVINSON STEEL CO

SHEET 2

SHIP TO

DATE SHIP FROM      SHIP FROM      FOB

CUSTOMER & BSC ORDER NOS.	UNITS	DESCRIPTION AND SIZE	WEIGHT
HT#	PCS		

INSP: 4 SWORN TESTS  
 SPEC: (2025000RC) MAYARI R-50 ASTM A588 GR B MAX  
 5 TON LIFTS ONE END BLUE & YELLOW

(0861-256-101)

36869-400  
 GF 13-0383

HT#	PCS	THICKNESS	WIDTH	LENGTH	NET WT	Y.P.	T.S.	E1.8"	Bend
5(P)	658J291	3	3/8	96	240 20FT	61900	87170	25.0	OK
7(P)	658J291	1	3/8	84	240 20FT				
9(P)	658J291	2	3/4	96	240 20FT	59770	80870	25.0	"
---					48035				

#	HT#	PCS	THICKNESS	WIDTH	LENGTH	C.	Mn.	P.	S.	Si.	Ni.	Cr.	Cu.	Va.
*0861	175 101	24476	645J260	19	97	010	019	17						
*0861	256 101	23559	645J279	21	44	010	019							
			658J291	08	102	010	019	26			29	57	24	05

### REPORT OF PHYSICAL TESTS AND/OR CHEMICAL ANALYSES

I CERTIFY THE ABOVE RESULTS OF TESTS AND/OR ANALYSES TO BE CORRECT AS CONTAINED IN THE RECORDS OF THE BETHLEHEM STEEL CORPORATION.

*R. A. ...*  
 Chief Metallurgist

SUBSCRIBED & SWORN TO BEFORE ME THIS

18th DAY OF ... 1972  
*[Signature]*  
 NOTARY PUBLIC COMMONWEALTH OF PENNSYLVANIA  
 My Commission expires November 15, 1972

BETHLEHEM STEEL CORPORATION  
 BETHLEHEM, PA. 15010

602-8554

CUST BELOW  
 ORDER NO. 515530-00  
 SALES OFFICE 1 13 16 3702 160  
 TO 2 D 4  
 SALE ORDER BELOW  
 X1 X576  
 COLLECT

SOLD TO LEVINSON STEEL CO  
 S 20TH & WHARTON STS  
 PITTSBURGH PA 15203  
 SHIP TO LEVINSON STEEL CO  
 PLATE SHOP  
 S 20TH & WHARTON STS  
 PITTSBURGH PA  
 DATE 9/11/72  
 SHIP FROM JOHNSTOWN PA  
 DATE W.C. MCQUADE

CAR OR VEHICLE NO.	NO. PCS OF PKGS	KIND OF PACKAGE, DESCRIPTION OF ARTICLES, SPECIAL MARKS AND EXCEPTIONS	WEIGHT POUNDS
R- 773A	10	STEEL PLATES DUNNAGE FREE 100#	48035

*Chemistry m*  
*Page #12*

13-3892  
 CUSTOMER & ASSY ORDER NOS UNITS DESCRIPTION AND SIZE WEIGHT

HT#	PCS	DESCRIPTION AND SIZE	WEIGHT	Y.P.	T.S.	El.8"	Bend
(C)	645J260	1 1-5/8 96	360 15910	42610	70940	29.0	OK
			30FT				

NSP: 4 SWORN TESTS  
 PEC: (30140000RC) ASTM A36 MAX 5 TON LIFTS

(0801-175-101)

HT#	PCS	DESCRIPTION AND SIZE	WEIGHT	Y.P.	T.S.	El.8"	Bend
(C)	645J279	2 7/16 96	360 8566	44330	64040	28.0	"
			30FT				

NSP: 4 SWORN TESTS  
 PEC: (20250000RC) MAYARI R-50 ASTM A588 GR B MAX  
 5 TON LIFTS ONE END BLUE & YELLOW

(0861-256-101)

HT#	PCS	DESCRIPTION AND SIZE	WEIGHT	Y.P.	T.S.	El.8"	Bend
(P)	652J291	1 1/2 84	360 4283	56180	80960	26.0	"
			30FT				

CONTD SH 2



# CONN CONSTRUCTION CO.

*Engineers and Contractors*

AREA CODE 412 654-6672

BOX 431 - NEW CASTLE, PENNSYLVANIA 16103

March 8, 1973

City of Pittsburgh  
City-County Building  
Department of Supplies  
Pittsburgh, Pennsylvania 15219

IN RE: Rehabilitation of Forbes Avenue  
Bridge over Fern Hollow and other  
work incidental thereto

Gentlemen:

We enclose herewith one (1) copy of our Purchase  
Orders No. 422, 433 and 436 with test reports  
attached, for your files.

Very truly yours,

CONN CONSTRUCTION CO.,

*Converse Branscome Jr.*  
Converse Branscome, Jr. *BB*  
President

bd

encl:

*An Equal Opportunity Employer*



PURCHASE ORDER  
**Conn Construction Co.**

— *Engineers and Contractors* —

Date January 20, 1973

Area Code 412, 654-6672

BOX 431 - NEW CASTLE, PENNSYLVANIA 16103

To Russell, Burdick and Ward  
Bolt and Nut Company  
Coraopolis, Pennsylvania  
  
Attention: F. Allman

SHIP TO

SHIP	VIA	F. O. B.	A/C NO.
QUANTITY	DESCRIPTION		

IN RE: Rehabilitation of Forbes Avenue Bridge

1160 Galv. Nuts for 7/8" Round Galv. bolts  
Must meet or exceed A.S.T.M. A-325 spec.

IN RE: Allegheny County  
Shades Run Bridge No. 1

The following to be A.S.T.M. A-325

- 1 Keg 3/4" Round x 1-3/4 in.
- 2 Keg 3/4" Round x 2 in.
- 1 Keg 3/4" Round x 2-1/4 in.
- 1 Keg 3/4" Round x 2-1/2 in.
- 1 Keg 3/4" Round x 3-1/2 in.

Please furnish six copies of certification on all material

**CONN CONSTRUCTION CO.**

By \_\_\_\_\_  
PURCHASING AGENT

RUSSELL, BURDSALL & WARD BOLT AND NUT CO.

CORAOPOLIS, PA.

STATEMENT OF COMPLIANCE WITH SPECIFICATIONS

#7331  
2/7/73

Customer: CONN. CONSTRUCTION CO.  
P.O. BOX 431  
NEW CASTLE, PA. 16103

Shipped To: SAME

Order No. & Date 436 1/25/73 Date Shipped 2/7/73 From Coraopolis, Pa.

<u>ORDER NO.</u>	<u>QUANTITY SHIPPED</u>	<u>SIZE &amp; DESCRIPTION</u>	<u>SPECIFICATION</u>
36	1,160 pcs.	7/8 HVY WF NUTS	ASTM A194-2H
"	375 pcs.	3/4 x 1 3/4 HVY HI STR BOLTS N/A	ASTM A325
"	700 pcs.	3/4 x 2 "	"
"	325 pcs.	3/4 x 2 1/4 "	"
"	300 pcs.	3/4 x 2 1/2 "	"
"	225 pcs.	3/4 x 3 1/2 "	"

We hereby certify that the material listed above meets the chemical and physical requirements of the noted specification.

*A. G. Belushi*

Mgr. Quality Control

**PURCHASE ORDER**  
**Conn Construction Co.**  
*—Engineers and Contractors—*

Date January 22, 1973

Area Code 412, 654-6672

BOX 431 - NEW CASTLE, PENNSYLVANIA 16103

To **Fabreeka Products Co.**  
**7150 N. Ridgeway Avenue**  
**Chicago, Illinois 60646**

SHIP TO

SHIP	VIA	F. O. B.	A/C NO.
QUANTITY	DESCRIPTION		

IN RE: **Rehabilitation of Forbes Avenue Bridge**

148 Fabreeka Pads as per enclosed sketch 10-1/2" x 11"

Please furnish six (6) copies of certification of conformance to Penna. Dept. Transportation specification Form 409 Section 1080.2(u) Type II

**CONN CONSTRUCTION CO.**

By \_\_\_\_\_  
PURCHASING AGENT

# FABREEKA PRODUCTS COMPANY

INCORPORATED

1190 ADAMS STREET, BOSTON, MASSACHUSETTS 02124

February 12, 1973

Conn Construction Company  
P. O. Box 431  
New Castle, Pennsylvania 16103

Attention: Mr. J. V. Howard  
Purchasing Agent

Subject: Your Purchase Order No. 433  
Re: Rehabilitation of Forbes Ave. Bridge

Gentlemen:

This is to certify that the 148 Fabco SA-47 Pads 1/8" thick which were shipped against your purchase order as above on 2/7/73 conform to Pennsylvania Dept. of Transportation Specification Form 409, Sect. 1080.2(u) Type II and to all other specifications and requirements set forth on the order.

FABREEKA PRODUCTS COMPANY

Per *H. Heim*  
(Miss) H. Heim, Office Manager

Subscribed and sworn to  
before me this 12th day  
of February, 1973

*R. M. Lafan*

Notary Public

BRANCH PLANTS

7150 N. RIDGWAY AVE. LINCOLNWOOD, ILLINOIS 60465

4382 BIERMONT AVE. OAKLAND, CALIF. 94611

CHASTOWN, STAFFORDSHIRE, ENGLAND



PURCHASE ORDER  
Conn Construction Co.

—Engineers and Contractors—

Date February 1, 1973

Area Code 412, 654-6672

BOX 431 - NEW CASTLE, PENNSYLVANIA 16103

To Bethlehem Steel Corporation  
Four Gateway Center  
Pittsburgh, Pennsylvania

SHIP TO

Attention: T. F. Weber

SHIP	VIA	F. O. B.	A/C NO.
QUANTITY	DESCRIPTION		

IN RE: Rehabilitation of Forbes Avenue

4 Pls 14 x 1 x 21 ft. 0 in.

12 Pls 11 x 1-1/8 x 11 ft. 8 in.

Material to be A.S.T.M. A-588

See enclosed test requirements

six copies chemical and physical test reports

CONN CONSTRUCTION CO.

By \_\_\_\_\_  
PURCHASING AGENT

**BETHLEHEM STEEL CORPORATION**  
BETHLEHEM, PA. 18016

SHIP NO. 604-3210-1/2  
GF 13-4899\*

CUST ORD 422  
SALE ORD X997  
CUST CODES 203940-00  
TENS 1  
UNIT 13  
PIR 16  
UNIT 3737  
NET 204  
GROSS 00  
COLLECT

SOLD TO  
CONN CONSTRUCTION CO  
BOX 431  
NEW CASTLE PA 16103

SHIP TO  
CONN CONSTRUCTION CO  
1080 CROTON AVE  
NEW CASTLE PA

DATE SHIPD 2/23/73  
SHIP FROM JOHNSTOWN PA  
ROUTE CUSTOMER

TRL TB6 71 STEEL PLATES 48237  
DUNNAGE FREE 200#

44-0703  
CUSTOMER & BSC ORDER NOS. UNITS DESCRIPTION AND SIZE WEIGHT

IT#	HEAT#	PCS					Yield	Tensile	El.	Bends
(0760-256-091)										
1 (C)	655J718	12	1-1/8	11	140	5892	56310	79950	8" 25.0	OK
					11FT8IN					
2 (C)	649J407	4	1	14	252	3996	59390	82300	23.5	OK
					21FT0IN					
		16			9888					

	C	Mn	P	S	Si	Ni	Cr	Cu	Va	CHARPY RESULTS
655J718	.10	1.08	.010	.019	.26	.32	.58	.24	.04	38-34-34 Avg.35.3
649J407	.08	1.11	.016	.023	.28	.34	.60	.24	.05	45-51-47 Avg.47.7

**REPORT OF PHYSICAL TESTS  
AND/OR CHEMICAL ANALYSES**

I CERTIFY THE ABOVE RESULTS OF TESTS  
AND/OR ANALYSES TO BE CORRECT AS CONTAINED IN  
THE RECORDS OF THE BETHLEHEM STEEL CORPORATION.

*R. A. Reynolds*

SUBSCRIBED AND SWORN TO BEFORE ME THIS  
23rd DAY OF FEB 1973  
*[Signature]*  
NOTARY PUBLIC, Commonwealth of Pennsylvania  
MY COMMISSION EXPIRES NOVEMBER 13, 1976