

TFG FILES INVENTORY

DATE: 12-15-05

Box Number: 49285542

Alternate Number: 16

Other Identification: LN191

Contents Associated With:

1. Contract DACW29-94-C-0079, Rec & Environmental Con Rec, LK Pontchartrain
LA & VIC London Avenue Outfall Canal Mirabeau; Section B, Folder 6, Item
37C

A0006551
A0006552
A0006554
A0006556

CEL MN-ED-TM (CEL MN-CD-NO-Q / 7 Dec 94) 1st End ^{NOT} Bonura/2653
SUBJECT: Contract No. DACW29-94-c-0079, Lake Pontchartrain and
Vicinity, High Level Plan, London Avenue Outfall Canal, Parallel
Protection, Mirabeau Avenue to Leon C. Simon Bouelevard Floodwall,
Orleans Parish, Louisiana

CEL MN-ED-TM

8 Dec 94

FOR CEL MN-⁷⁴CD-NO-Q

We have reviewed the mill certificates relative to the structural
aspects and found that the steel used to form the sheet piling
appears structurally adequate.

Encl
nc

for Robert Auger
W. EUGENE TICKNER
Chief, Engineering Division

TEB

7 Dec 94

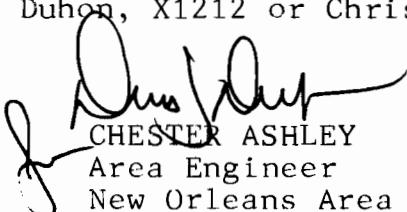
MEMORANDUM THRU C/Const Div 

FOR C/Engr Div

SUBJECT: Contract No. DACW29-94-C-0079, Lake Pontchartrain and Vicinity, High Level Plan, London Avenue Outfall Canal, Parallel Protection, Mirabeau Avenue to Leon C. Simon Boulevard Floodwall, Orleans Parish, Louisiana

1. Forwarded herewith is contract correspondence relative to steel sheetpile acceptance.
2. Request your office review and provide NOAO a technical analysis as to whether or not the mill certificates meet all of our contract requirements.
3. The first sheetpile was delivered to the jobsite 5 Dec 94; therefore, to avoid any contractor delays a timely response is appreciated.
4. NOAO POC is Dennis Duhon, X1212 or Chris Wagner, x1222.

Encl


CHESTER ASHLEY
Area Engineer
New Orleans Area Office

CF:
Proj Engr (Wagner)
Proj Insp (Bryant)



DEPARTMENT OF THE ARMY

NEW ORLEANS DISTRICT, CORPS OF ENGINEERS

P.O. BOX 60267

NEW ORLEANS, LOUISIANA 70160-0267

B-28

REPLY TO
ATTENTION OF:

December 5, 1994

New Orleans Area Office

SUBJECT: Contract No. 94-C-0079, Lake Pontchartrain, Louisiana and Vicinity, High Level Plan, London Avenue Outfall Canal, Parallel Protection, Mirabeau Avenue to Leon C. Simon Boulevard Floodwall, Orleans Parish, Louisiana

B & K Construction Company, Incorporated
1905 Highway 59
Mandeville, Louisiana 70448

Gentlemen:

Reference my letter dated November 30, 1994, as well as the telephone conversation between your Mr. Mike Tassin and Mr. Dennis Duhon of my staff on December 5, 1994, regarding the steel sheet piling for the subject contract.

You have elected to deliver the sheet piling without the required certification. In lieu of this, no payment will be made for the sheet piling stored on-site until all submittal requirements referenced in my November 30, 1994 letter, are approved. Furthermore, any costs associated with the removal of sheet piling that does not meet the specifications will be borne by you at no expense to the Government.

If you have any further questions, contact Mr. Duhon at 862-1212.

Sincerely,

BERNARD
CELMN-CD-NO

HILL
CELMN-CD

Richard T. Hill
Contracting Officer's
Authorized Representative

MR. WAGNER/1a/1222

November 30, 1994

DUHON
CEL MN-CD-NO-Q

New Orleans Area Office

HABBAZ
CEL MN-CD-NO

SUBJECT: Contract No. DACW29-94-C-0079, Lake Pontchartrain and Vicinity, High Level Plan, London Avenue Outfall Canal, Parallel Protection, Mirabeau Avenue to Leon C. Simon Boulevard Floodwall, Orleans Parish, Louisiana

BERNARD
CEL MN-CD-NO

ASHLEY
CEL MN-CD-NO

B & K Construction Company, Incorporated
1905 Highway 59
Mandeville, Louisiana 70448

Gentlemen:

This letter is to confirm the telephone conversation between your Mr. Boone Kenyon and Mr. Dennis Duhon of this office on November 29, 1994, regarding the steel sheet piling for the subject contract.

As discussed, the following items must be provided prior to acceptance of the sheet piling:

1. The original mill test reports must be furnished for the test samples that were taken when the steel was hot-rolled in order to show conformance with the contract requirements. The heat analysis sample shall be in accordance with ASTM A 6.

2. The heat numbers on Casteel's QC certificates must correspond to those on the original mill test reports. (The heat numbers on Casteel's QC certificate and the metallurgical lab report from Weirton Steel Corporation furnished to this office on November 18, 1994, did not coincide with each other.)

3. Address the inconsistencies regarding the Weirton Steel Corporation metallurgical lab report showing ASTM A 570, Grade 50 and Casteel's QC certificate showing ASTM A 572, Grade 50.

4. The mill test reports should address the total number of pieces for the entire job. The Casteel QC report addresses only 46 pieces of 26'-9" length.

In closing, our records indicate that you were informed numerous times as to what steel sheetpile submittals are

required. In particular, we discussed mill test reports at the Preconstruction Conference on August 16, 1994 and you were notified in writing in our return comments to your sheetpile submittals, dated September 7, 1994 and October 25, 1994 respectively. If you have any further questions, contact Mr. Duhon at 862-1212.

Sincerely,

Richard T. Hill
Contracting Officer's
Authorized Representative

CF:
Proj Engr (Wagner)
Proj Insp (Bryant)

[Faint, mostly illegible text follows, appearing to be a continuation of the letter or a separate page of correspondence.]

COPY



CONSTRUCTION COMPANY, INC.

6 December 1994

Mr. Chester Ashley, Contracting Officer
U. S. Army Corps of Engineers
New Orleans District
P. O. Box 60167
New Orleans, LA 70160-0267

RE: Contract No DACW29-94-C-0079
Lake Pontchartrain & Vicinity
High Level Plan, London Avenue
Outfall Canal, Parallel
Protection Mirabeau Ave to Leon
C. Simon Blvd Floodwall -
Orleans Parish, LA.
B & K Job No 9402

Dear Mr. Ashley:

We have enclosed a notarized copy of the Original Mill Certificates from Weirton Steel in accordance with ASTM A-6.

We have enclosed the Original Certificates from Casteel as per the contract documents.

We have enclosed a heat number key so you can cross-reference Casteel's numbers with Weirton Steel numbers. We have included all of the Weirton coil reports for the September rolling of approximately 224 pieces but have included the Casteel reports covering only the 3 truckloads of steel sheet piling shipped.

We have enclosed the letter of explanation from Casteel explaining the Weirton steel reports and the purchase and the manufacture of the material to obtain ASTM A-572, Grade 50 steel sheet piling.

We have also enclosed other letters from Weirton Steel that are pertinent.

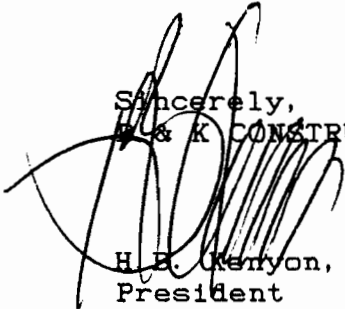
If this documentation is not acceptable please indicate as soon as possible (in writing) the specification it violates so that we may take the appropriate action and please set up a meeting with the Contracting Officer at once.

We received the approved submittal on the steel sheet piling on 23 November 1994 and will be delayed if this is not reconciled as soon as possible.

Mr. Chester Ashley
Page Two
6 December 1994

If you have any questions please contact us at any
time.

Sincerely,
H & K CONSTRUCTION COMPANY, INC.



H. E. Kenyon,
President

HBK/hk
enclosures

cc: Mr. Lee Wilczynski, Skyline Steel
Mr. Fred Zalenski, Casteel Group

9402/CA120694

COPY

Casteel

WHERE IT ALL BEGINS

December 1, 1994

Skyline Steel Corporation
Attn: Lee Wilczynski
126 Tchefuncte Drive
Covington, LA 70433

Dear Lee:

We would like to address the questions raised by the Corps of Engineers in their letter dated November 30, 1994, and addressed to B & K Construction Company, Inc.

- 1) Original mill test reports from our suppliers have not been submitted for the following reason. Casteel receives only one original test report from our suppliers. This original must remain in our possession to endorse the Casteel "Quality Control Certificates" submitted for any one project. Should a failure happen on a given project, Casteel would need the original test report to substantiate our Quality Control Certificates. Furthermore, original test reports can not be released since certain heats of steel are often shipped to more than one project. For example, a heat of 500 tons may end up on 5 projects of 100 tons each. Casteel must retain the one original test report to verify the Quality Control Certificates issued for all 5 projects. In addition, the documents you've requested contain privileged and proprietary information.

Conforming to your requests would mean changing our procedures as well as our suppliers procedures. We feel this is an unreasonable request. This request by the Corps of Engineers is unusual and seems to question the integrity of the Casteel "Quality Control Certificate," normally submitted to the satisfaction of various authorities throughout the country.

However, in this instance, to satisfy your request regarding original test reports, we've submitted to you a certified copy of the original Mill Test Report from our supplier. If this is not satisfactory, we suggest one of the following.

- A) The Corps of Engineers visit our office to examine our suppliers test reports first hand.
- B) Casteel will send their representative to meet with the Corps of Engineers to review the originals and make copies for their records.

We believe the alternatives noted above are suitable to alleviate concerns the Corps of Engineers may have in this matter.

Lastly, the testing and heat analysis performed by our supplier were done as per contract requirements. The testing and heat analysis specifications used by our supplier are in agreement with A572 and A6 requirements. (See copy of Weirton's letter dated December 1, 1994).

- 2) As the manufacturer of steel sheet piling, Casteel re-assigns a Casteel heat number to each heat number provided by our various suppliers including Weirton Steel Corporation. The Casteel heat number appears on the finished product and on our Quality Control Certificates.

You will find herewith Casteel's letter dated November 18, 1994, which establishes the correlation between the two sets of heat numbers based on information contained in the records of our company. The information on Casteel's Quality Control Certificates and Weirton's lab reports corresponds to each other.

- 3) The inconsistencies pointed out between the lab reports showing A570 and Casteel's Quality Control Certificates showing A572 are due to the manner in which we order steel. Casteel has to purchase steel coils to manufacture steel sheet piling.

A572 is a specification covering "structural steel shapes, plates, sheet piling and bars." Coils are not covered by A572. We have to purchase coils to A570 for the above reasons and also because we need to guaranty that materials received will meet certain coils standards needed for our manufacturing operation (tolerances, finished condition, identification, packaging, etc.). Since we have to use A570 coils to manufacture sheet piling to A572, we specify to our suppliers that the A570 coils must meet the mechanical

Casteel

WHERE IT ALL BEGINS

and chemical requirements of A572 grade 50. Based on the above, the lab reports issued by Weirton describes materials fully meeting the requirements (mechanical and chemical) of ASTM A572 grade 50.

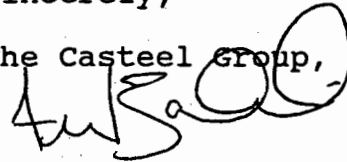
Our Quality Control Certificates and Weirton's lab reports do not indicate any specific TYPE for the A572 steel because no TYPE was designated or required by the specification and subsequent purchase order. However, the review of the chemical composition of the steel reveals the presence of alloys in conformity with A572 type 1, 2, 3 or 4. You should note that the addition for Columbium and/or Vanadium is mainly used to provide increase of the yield point and to a lesser extent the tensile strength of carbon steel. In that regard, our steel always meets or exceeds the mechanical requirements of A572 grade 50.

- 4) Mill test reports from Casteel can only be issued after conversion of coils into steel sheet piling. Only then, can we produce a Quality Control report indicating the number of pieces produced for a given heat. Complete reports will be submitted as the material is produced for this order.

We remain available to provide clarifications or address additional questions.

Sincerely,

The Casteel Group, Inc.



Fred Zalenski

Enclosure

Casteel

WHERE IT ALL BEGINS

WEIRTON
STEEL CORPORATION

FAX 614-423-8541

December 1, 1994

Mr. Fred Zalenski
The Casteel Group, Inc.
Route 1, Box 374-A
Belpre, Oh 45714

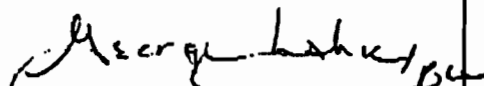
Dear Fred:

Further to our discussion regarding the testing of the steel provided by Weirton, we would like to confirm the following:

- a. The mechanical testing is done in accordance with ASTM A370.
- b. The chemical analysis or heat analysis is done in accordance with ASTM A751. The heat analysis sample is taken in accordance with ASTM A6.

You will find herewith signed copies of original mill test reports confirming the results of Weirton's testing and analysis done as per the above specifications requirements.

Most cordially yours,



George F. Lahr
Pittsburgh District Sales Representative

GFL/bwb





WHERE IT ALL BEGINS

November 18, 1994

Skyline Steel Corporation
Attn: Lee Wilczynski
126 Tchefuncte Drive
Covington, LA 70433

Re: London Avenue Outfall Canal

Dear Lee:

The following list shows Casteel's Heat Nos. with corresponding Heat Nos. from Weirton Steel.

<u>Casteel Heat No.</u>	<u>Weirton Heat No.</u>
92664	78341
92665	78340
92666	45818
92667	45819
92668	78338
92669	78339
92670	78519
92671	78337
92672	78335
92673	77869

If you need further information, please contact me.

Sincerely,

Fred Zalenski

WEIRTON
STEEL CORPORATION

November 14, 1994

FAX: 614-423-8541

Mr. Fred Zalinski
The Casteel Group, Inc.
Route #1, Box 374-A
Belpre, OH 45714

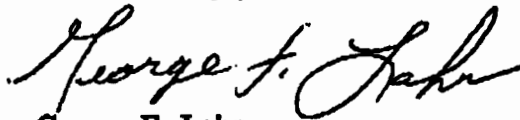
Dear Fred:

Subject: Corps of Engineers

Please be advised our steel Spec ASTM A-570 Grade 50 meets the chemical and mechanical requirements for the piling Spec A-572 Grade 50.

Should you wish for any additional information pertaining to this matter, please call.

Most cordially yours,



George F. Lahr
Pittsburgh District Sales Representative

GFL:/bwb



LONDON AVENUE OUTFALL CANAL
CONTRACT NO. DACW29-94-C-0079
U.S. ARMY CORPS OF ENGINEERS
B & K JOB NO. 9402

ORIGINAL MILL TEST CERTIFICATE FROM CASTEEL TO
COVER THE STEEL SHEET PILE DELIVERED TO THE
LONDON AVENUE JOBSITE ON MONDAY, DECEMBER 5, 1994.
(SP3871, SP3872 & SP3873)

ADDITIONAL ORIGINAL CERTIFICATES WILL FOLLOW
UPON DELIVERY OF ADDITIONAL STEEL SHEET PILE.



WHERE IT ALL BEGINS

The Casteel Group, Inc.

QUALITY CONTROL CERTIFICATE

Plant
Rt. 1, Box 374-A
Belpre, Ohio U.S.A.
45714

Tel: (614) 423-8544
Fax: (614) 423-8541

Page 1 of 1

Date NOVEMBER 20, 1994

Bill(s) of Lading SP3871

Customer

SKYLINE STEEL CORPORATION
11550 FUQUA, SUITE 345
HOUSTON, TX 77034

**PROJECT: LONDON AVENUE
OUTFALL CANAL
ORLEANS PARISH, LA**

Specification
Description

**NEW STEEL SHEET PILING
ASTM A 572, GR. 50
CZ101**

**HEAT NUMBERS WERE PRINTED ON
ENDS OF PILING BY THE MILL.**

Purchase Order
Your P.O. 487592
Our W.O. 95-044
Ship to: CPU

Heat No.	TENSILE TEST				# of PCS.	# of FT.	CHEMICAL ANALYSIS (%)									
	Yield Point Psi	Tensile Strength Psi	% Elongation 8 in <input type="checkbox"/> 2 in <input checked="" type="checkbox"/>				C	Mn	P	S	Si	Cu	Ni	Cr	V	CB
92666	60900 ***	75900	33.5	17	26.75	0.17	0.76	0.006	0.009	0.013	0.043	0.031	0.017	0.002	0.025	
92669	55000 ***	71300	35.5	27	26.75	0.15	0.70	0.010	0.007	0.010	0.022	0.021	0.018	0.002	0.022	
*** MANUFACTURED IN THE U.S.A. ***																

We hereby certify that the material described has been tested in accordance with specification and that the results are correct as contained in the records of the Company. We also certify that the chemical (heat) analysis recorded herein is as certified by the steel producer.

By 
FRED ZALENSKI /Jh



The Casteel Group, Inc.

QUALITY CONTROL CERTIFICATE

WHERE IT ALL BEGINS

Plant
Rt. 1, Box 374-A
Belpre, Ohio U.S.A.
45714

Tel: (614) 423-8544
Fax: (614) 423-8541

Page 1 of 1

Date DECEMBER 5, 1994

Customer
SKYLINE STEEL CORPORATION
11550 FUQUA, SUITE 345
HOUSTON, TX 77034

Specification
Description
NEW STEEL SHEET PILING
ASTM A 572, GR. 50
CZ101

Bill(s) of Lading

SP 3873

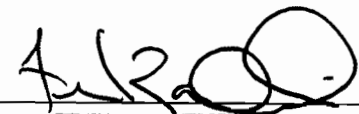
PROJECT: **LONDON AVENUE**
OUTFALL CANAL
ORLEANS PARISH, LA

HEAT NUMBERS WERE PRINTED ON
ENDS OF PILING BY THE MILL.

Purchase Order
Your P.O. **487592**
Our W.O. **95-044**
Ship to: **CPU**

Heat No.	TENSILE TEST			# of PCS.	# of FT.	CHEMICAL ANALYSIS (%)									
	Yield Point Psi	Tensile Strength Psi	% Elongation 8 in <input type="checkbox"/> 2 in <input checked="" type="checkbox"/>			C	Mn	P	S	Si	Cu	Ni	Cr	V	CB
92665	61500 ****	74100	34.5	9	26.75	0.16	0.71	0.011	0.007	0.012	0.018	0.020	0.024	0.002	0.021
92666	60900 ****	75900	33.5	29	26.75	0.17	0.76	0.006	0.009	0.013	0.043	0.031	0.017	0.002	0.025
92668	58600 ****	75100	33	6	26.75	0.15	0.72	0.016	0.008	0.013	0.026	0.023	0.028	0.002	0.021
*** MANUFACTURED IN THE U.S.A. ***															

We hereby certify that the material described has been tested in accordance with specification and that the results are correct as contained in the records of the Company. We also certify that the chemical (heat) analysis recorded herein is as certified by the steel producer.

By 
FRED ZALENSKI /jh

LONDON AVENUE OUTFALL CANAL
CONTRACT NO. DACW29-94-C-0079
U.S. ARMY CORPS OF ENGINEERS
B & K JOB NO. 9402

CERTIFIED TRUE COPIES OF THE COIL REPORTS FROM WEIRTON
STEEL CORPORATION TO COVER ALL STEEL SHEET PILE ORDERED
FOR THE LONDON AVENUE PROJECT. (21 Pages)

METALLURGICAL LABORATORY
REPORT OF TEST

WEIRTON STEEL CORPORATION
WEIRTON, WEST VIRGINIA 26062

INDEX : 002764
MILL ORDER : 002764-003
BUYER'S NO : 1050
ITEM NO : 01
CUST SPEC : ASTM A 570 GRADE 50

~~XX~~
~~XX~~
MODE: TRUCK DATE: 09/15/94

SOLD TO: 20016
THE CASTEL GROUP INC.
ROUTE 1, BOX 374A
BELPRE, OHIO 45714

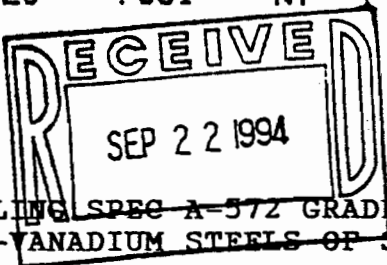
SHIP TO: 20021
THE CASTEL GROUP INC
ROUTE 7 NORTH
BELPRE, OHIO 45714

VEHICLE ID: ROUTE/CARRIER: COMPASS TRANSPORTATION INC.

PRODUCT: WSG-50 HOT ROLLED STEEL SHEETS NON-TEMPERPASSED

IPM NUMBER	HEAT NUMBER	YIELD STRENGTH LBS/ SQ. IN.	ULTIMATE STRENGTH LBS/ SQ. IN.	PER CENT ELONGATION IN 2 INS.	CTG WGT OZ. PER SQ. FT.	RW. B	BENDS
0395423	78339	55,000	71,300	35.5			
0397414	78519	60,600	74,700	34.0			

HEAT		C H E M I C A L A N A L Y S I S						*****	
C/MO	MN/AL	S/ZR	P/V	SI/CB	SN/TI	CU/B	CR/PPM	NI/NPPM	
78339 .150 .008	.70 .043	.007 NT	.010 .002	.010 .022	.003 NT	.022 NT	.018 23	.021 55	
78519 .150 .005	.74 .030	.008 NT	.011 .003	.012 .020	.003 .001	.022 NT	.025 28	.016 42	



THE ABOVE STEEL CONFORMS TO THE PILING SPEC A-572 GRADE 50.
(HIGH STRENGTH LOW-ALLOY COLUMBIUM-VANADIUM STEELS OF STRUCTURAL QUALITY)

BY: *George J. John* 9/17/94
WEIRTON STEEL CORP. DATE

THIS IS TO CERTIFY THE ABOVE TESTS ARE TRUE AS CONTAINED IN THE COMPANY RECORDS.
SIGNED *David Duff* METALLURGIST.

NOTE: "NT" SIGNIFIES "NOT TESTED".

The undersigned hereby certifies that this a true and exact copy of the original metallurgical test supplied to The Casteel Group, Inc. by Weirton Steel Corporation. Certain proprietary information has been redacted.



Signed in my presence by Frederick Zalenski, Customer Service Manager of The Casteel Group, Inc.



Brian L. Billetdeaux
Notary Public State of Ohio
My Commission Expires 1/18/99

METALLURGICAL LABORATORY
REPORT OF TEST

WEIRTON STEEL CORPORATION
WEIRTON, WEST VIRGINIA 26062

INDEX : 002764
MILL ORDER : 002764-003
BUYER'S NO : 1050
ITEM NO : 01
CUST SPEC : ASTM A 570 GRADE 50

MODE: BARGE DATE: 09/23/94

SOLD TO: 20016
THE CASTEEL GROUP INC.
ROUTE 1, BOX 374A
BELPRE, OHIO 45714

SHIP TO: 20248
THE CASTEEL GROUP INC
C/O MARIETTA INDUSTRIAL ENTERPRS.
MILE 179 ON OHIO RIVER
MARIETTA, OHIO 45750

VEHICLE ID: NM324

ROUTE/CARRIER: NM

PRODUCT:
WSG-50 HOT ROLLED STEEL SHEETS NON-TEMPERPASSED

IPM NUMBER	HEAT NUMBER	YIELD STRENGTH LBS/ SQ. IN.	ULTIMATE STRENGTH LBS/ SQ. IN.	PER CENT ELONGATION IN 2 INS.	CTG WGT OZ. PER SQ. FT.	RW. B.	BENDS
0395418	78335	56,800	75,700	32.5			
0395421	78335	56,800	75,700	32.5			
0395422	78335	56,800	75,700	32.5			
0395430	78335	56,800	75,700	32.5			
0395431	78341	62,800	78,500	33.5			
0395435	78337	57,900	71,900	31.5			
0395444	78336	60,700	73,400	32.0			
0397413	78519	60,600	74,700	34.0			
0397415	78519	60,600	74,700	34.0			
0397420	78518	59,300	75,000	33.0			
0397421	78518	59,300	75,000	33.0			
0397422	78518	59,300	75,000	33.0			
0399090	78518	59,300	75,000	33.0			

***** CHEMICAL ANALYSIS *****									
HEAT	C/MO	MN/AL	S/ZR	P/V	SI/CB	SN/TI	CU/B	CR/PPM	NI/NPPM
78335	.160 .009	.65 .052	.008 NT	.008 .002	.014 .018	.002 NT	.023 NT	.017 26	.023 66
78336	.160 .008	.67 .040	.007 NT	.008 .002	.013 .020	.002 NT	.018 NT	.016 24	.022 56
78337	.160 .007	.71 .039	.007 NT	.008 .002	.012 .022	.006 NT	.024 NT	.018 24	.025 51
78341	.160 .008	.71 .036	.009 NT	.009 .002	.010 .020	.002 NT	.024 NT	.024 25	.024 45
78518	.140 .004	.73 .049	.007 NT	.011 .002	.014 .023	.002 NT	.012 NT	.021 26	.014 43
78519	.150 .005	.74 .030	.008 NT	.011 .003	.012 .020	.003 .001	.022 NT	.025 28	.016 42

THIS IS TO CERTIFY THE ABOVE TESTS ARE TRUE AS CONTAINED IN THE COMPANY RECORDS.

SIGNED

Don Duff


METALLURGIST.

NOTE: "NT" SIGNIFIES "NOT TESTED".

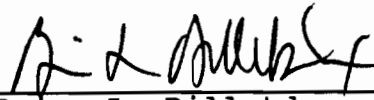
THE ABOVE STEEL CONFORMS TO THE PILING SPEC A-572 GRADE 50.
(HIGH STRENGTH LOW-ALLOY COLUMBIUM-VANADIUM STEELS OF STRUCTURAL
QUALITY)

BY: George F. Baker 11/17/94
WEIRTON STEEL CORP. DATE

The undersigned hereby certifies that this a true and exact copy of the original metallurgical test supplied to The Casteel Group, Inc. by Weirton Steel Corporation. Certain proprietary information has been redacted.



Signed in my presence by Frederick Zalenski, Customer
Service Manager of The Casteel Group, Inc.



Brian L. Billetdeaux
Notary Public State of Ohio
My Commission Expires 1/18/99

METALLURGICAL LABORATORY
REPORT OF TEST

WEIRTON STEEL CORPORATION
WEIRTON, WEST VIRGINIA 26062

INDEX : 002764
MILL ORDER : 002764-003
BUYER'S NO : 1050
ITEM NO : 01
CUST SPEC : ASTM A 570 GRADE 50

~~XXXXXXXXXXXXXXXXXXXX~~
~~XXXXXXXXXXXXXXXXXXXX~~
MODE: BARGE DATE: 09/23/94

SOLD TO: 20016
THE CASTEEL GROUP INC.
ROUTE 1, BOX 374A
BELPRE, OHIO 45714

SHIP TO: 20248
THE CASTEEL GROUP INC
C/O MARIETTA INDUSTRIAL ENTERPRS.
MILE 179 ON OHIO RIVER
MARIETTA, OHIO 45750

VEHICLE ID: NM324

ROUTE/CARRIER: NM

PRODUCT:
WSG-50 HOT ROLLED STEEL SHEETS NON-TEMPERPASSED

IPM NUMBER	HEAT NUMBER	YIELD STRENGTH LBS/ SQ. IN.	ULTIMATE STRENGTH LBS/ SQ. IN.	PER CENT ELONGATION IN 2 INS.	CTG WGT OZ. PER SQ. FT.	RW. B	BENDS
0395441	78338	58,600	75,100	33.0			
0397416	78519	60,600	74,700	34.0			
0397417	78519	60,600	74,700	34.0			
0397419	78518	59,300	75,000	33.0			

*****			C H E M I C A L					A N A L Y S I S		*****	
HEAT	C/MO	MN/AL	S/ZR	P/V	SI/CB	SN/TI	CU/B	CR/PPM	NI/NPPM		
78338	.150 .008	.72 .042	.008 NT	.016 .002	.013 .021	.003 NT	.026 NT	.028 21	.023 43		
78518	.140 .004	.73 .049	.007 NT	.011 .002	.014 .023	.002 NT	.012 NT	.021 26	.014 43		
78519	.150 .005	.74 .030	.008 NT	.011 .003	.012 .020	.003 .001	.022 NT	.025 28	.016 42		

THE ABOVE STEEL CONFORMS TO THE PILING SPEC A-572 GRADE 50.
(HIGH STRENGTH LOW-ALLOY COLUMBIUM-VANADIUM STEELS OF STRUCTURAL
QUALITY)

BY: *George T. Jones* 11/17/94
WEIRTON STEEL CORP. DATE

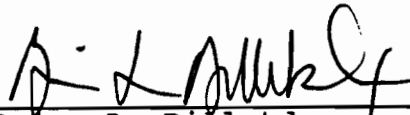
THIS IS TO CERTIFY THE ABOVE TESTS ARE TRUE AS CONTAINED IN THE COMPANY RECORDS.
SIGNED *Don D. J.* METALLURGIST.

NOTE: "NT" SIGNIFIES "NOT TESTED".

The undersigned hereby certifies that this a true and exact copy of the original metallurgical test supplied to The Casteel Group, Inc. by Weirton Steel Corporation. Certain proprietary information has been redacted.



Signed in my presence by Frederick Zalenski, Customer Service Manager of The Casteel Group, Inc.



Brian L. Billetdeaux
Notary Public State of Ohio
My Commission Expires 1/18/99

METALLURGICAL LABORATORY
REPORT OF TEST

WEIRTON STEEL CORPORATION
WEIRTON, WEST VIRGINIA 26062

INDEX : 002764
MILL ORDER : 002764-003
BUYER'S NO : 1050
ITEM NO : 01
CUST SPEC : ASTM A 570 GRADE 50

MODE: TRUCK DATE: 09/15/94

SOLD TO: 20016
THE CASTEEL GROUP INC.
ROUTE 1, BOX 374A
BELPRE, OHIO 45714

SHIP TO: 20021
THE CASTEEL GROUP INC
ROUTE 7 NORTH
BELPRE, OHIO 45714

VEHICLE ID:

ROUTE/CARRIER: COMPASS TRANSPORTATION INC.

PRODUCT:
WSQ-50 HOT ROLLED STEEL SHEETS NON-TEMPERPASSED

IPM NUMBER	HEAT NUMBER	YIELD STRENGTH LBS/ SQ. IN.	ULTIMATE STRENGTH LBS/ SQ. IN.	PER CENT ELONGATION IN 2 INS.	CTG WGT OZ. PER SQ. FT.	RW. B	BENDS
0395445	78338	58,600	75,100	33.0			
0397418	78339	55,000	71,300	35.5			

*****		C H E M I C A L					A N A L Y S I S			*****	
HEAT	C/MO	MN/AL	S/ZR	P/V	SI/CB	SN/TI	CU/B	CR/PPM	NI/NPPI		
78338	.150	.72	.008	.016	.013	.003	.026	.028	.023		
	.008	.042	NT	.002	.021	NT	NT	21	43		
78339	.150	.70	.007	.010	.010	.003	.022	.018	.021		
	.008	.043	NT	.002	.022	NT	NT	23	55		

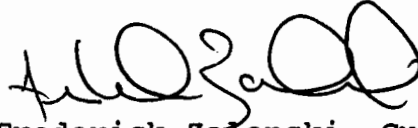
THE ABOVE STEEL CONFORMS TO THE PILING SPEC A-572 GRADE 50.
(HIGH STRENGTH LOW-ALLOY COLUMBIUM-VANADIUM STEELS OF STRUCTURAL QUALITY)

BY: *[Signature]* 11/17/94
WEIRTON STEEL CORP. DATE

THIS IS TO CERTIFY THE ABOVE TESTS ARE TRUE AS CONTAINED IN THE COMPANY RECORDS.
SIGNED *[Signature]* METALLURGIST.

NOTE: "NT" SIGNIFIES "NOT TESTED".

The undersigned hereby certifies that this a true and exact copy of the original metallurgical test supplied to The Casteel Group, Inc. by Weirton Steel Corporation. Certain proprietary information has been redacted.



Signed in my presence by Frederick Zalenski, Customer
Service Manager of The Casteel Group, Inc.



Brian L. Billetdeaux
Notary Public State of Ohio
My Commission Expires 1/18/99

METALLURGICAL LABORATORY
REPORT OF TEST

WEIRTON STEEL CORPORATION
WEIRTON, WEST VIRGINIA 26062

INDEX : 002758
MILL ORDER : 002758-005
BUYER'S NO : 1002-7
ITEM NO : 01
CUST SPEC : ASTM A 570 GRADE 50

XXXXXXXXXXXXXXXXXXXX
MODE: BARGE DATE: 08/27/94

SOLD TO: 20016
THE CASTEEL GROUP INC.
ROUTE 1, BOX 374A
BELPRE, OHIO 45714

SHIP TO: 20248
THE CASTEEL GROUP INC
C/O MARIETTA INDUSTRIAL ENTERPRS.
MILE 179 ON OHIO RIVER
MARIETTA, OHIO 45750

VEHICLE ID: SER106

ROUTE/CARRIER: NM

PRODUCT:
WSQ-50 HOT ROLLED STEEL SHEETS NON-TEMPERPASSED

IPM NUMBER	HEAT NUMBER	YIELD STRENGTH		ULTIMATE STRENGTH		PER CENT ELONGATION		CTG WGT OZ. PER SQ. FT.	RW. B	BENDS
		LBS/SQ.	IN.	LBS/SQ.	IN.	IN 2	INS.			
0381462	45819	57,600		73,000		36.5				
0386392	77876	56,500		71,000		35.5				
0386399	77874	58,000		72,500		35.0				
0386400	77875	56,000		71,500		34.0				
0386401	77875	56,000		71,500		34.0				
0386404	77874	58,000		72,500		35.0				
0386405	77873	58,300		73,400		34.0				
0386407	77874	58,000		72,500		35.0				
0391004	45815	60,300		74,100		35.0				
0391005	77869	59,800		74,100		35.0				

***** C H E M I C A L A N A L Y S I S *****									
HEAT	C/MO	MN/AL	S/ZR	P/V	SI/CB	SN/TI	CU/B	CR/OPPM	NI/NPPM
45815	.140 .010	.72 .040	.007 NT	.008 .003	.009 .024	.006 NT	.029 NT	.024 34	.026 38
45819	.150 .009	.74 .041	.008 NT	.007 .002	.009 .024	.004 NT	.031 NT	.022 31	.026 43
77869	.150 .013	.73 .042	.007 NT	.012 .003	.009 .022	.003 NT	.049 NT	.051 25	.030 45
77873	.150 .008	.75 .036	.006 NT	.012 .003	.008 .021	.005 .001	.033 NT	.043 26	.022 38
77874	.140 .010	.74 .038	.006 NT	.009 .003	.008 .021	.006 .001	.041 NT	.042 28	.024 37
77875	.150 .010	.75 .047	.007 NT	.009 .003	.010 .024	.005 NT	.040 NT	.041 31	.023 41
77876	.160 .005	.69 .064	.006 NT	.010 .002	.009 .016	.002 NT	.019 NT	.028 20	.016 42

THIS IS TO CERTIFY THE ABOVE TESTS ARE TRUE AS CONTAINED IN THE COMPANY RECORDS.

SIGNED

Don Duff

METALLURGIST.

NOTE: "NT" SIGNIFIES "NOT TESTED".

THE ABOVE STEEL CONFORMS TO THE PILING SPEC A-572 GRADE 50.
(HIGH STRENGTH LOW-ALLOY COLUMBIUM-VANADIUM STEELS OF STRUCTURAL
QUALITY)

BY: George F. Faba 11/17/94
WEIRTON STEEL CORP. DATE

The undersigned hereby certifies that this a true and exact copy of the original metallurgical test supplied to The Casteel Group, Inc. by Weirton Steel Corporation. Certain proprietary information has been redacted.



Signed in my presence by Frederick Zalenski, Customer Service Manager of The Casteel Group, Inc.



Brian L. Billetdeaux
Notary Public State of Ohio
My Commission Expires 1/18/99

METALLURGICAL LABORATORY
REPORT OF TEST

WEIRTON STEEL CORPORATION
WEIRTON, WEST VIRGINIA 26062

INDEX : 002764
MILL ORDER : 002764-003
BUYER'S NO : 1050
ITEM NO : 01
CUST SPEC : ASTM A 570 GRADE 50

MODE: BARGE DATE: 08/27/94

SOLD TO: 20016
THE CASTEEL GROUP INC.
ROUTE 1, BOX 374A
BELPRE, OHIO 45714

SHIP TO: 20248
THE CASTEEL GROUP INC
C/O MARIETTA INDUSTRIAL ENTERPRS.
MILE 179 ON OHIO RIVER
MARIETTA, OHIO 45750

VEHICLE ID: SER106

ROUTE/CARRIER: NM

PRODUCT:
WSG-50 HOT ROLLED STEEL SHEETS NON-TEMPERPASSED

IRM NUMBER	HEAT NUMBER	YIELD STRENGTH LBS/ SQ. IN.	ULTIMATE STRENGTH LBS/ SQ. IN.	PER CENT ELONGATION IN 2 INS.	CTG WGT OZ. PER SQ. FT.	RW. B	BENDS
0395439	78341	62,800	78,500	33.5			
0395442	78335	56,800	75,700	32.5			
0395443	78338	58,600	75,100	33.0			
0395446	78338	58,600	75,100	33.0			
0395447	78337	57,900	71,900	31.5			

***** C H E M I C A L A N A L Y S I S *****									
HEAT	C/MO	MN/AL	S/ZR	P/V	SI/CB	SN/TI	CU/B	CR/PPM	NI/NPPM
78335	.160 .009	.65 .052	.008 NT	.008 .002	.014 .018	.002 NT	.023 NT	.017 26	.023 66
78337	.160 .007	.71 .039	.007 NT	.008 .002	.012 .022	.006 NT	.024 NT	.018 24	.025 51
78338	.150 .008	.72 .042	.008 NT	.016 .002	.013 .021	.003 NT	.026 NT	.028 21	.023 43
78341	.160 .008	.71 .036	.009 NT	.009 .002	.010 .020	.002 NT	.024 NT	.024 25	.024 45

THE ABOVE STEEL CONFORMS TO THE PILING SPEC A-572 GRADE 50.
(HIGH STRENGTH LOW-ALLOY COLUMBIUM-VANADIUM STEELS OF STRUCTURAL QUALITY)

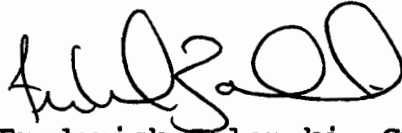
BY: *George F. Sahr*
WEIRTON STEEL CORP. DATE

THIS IS TO CERTIFY THE ABOVE TESTS ARE TRUE AS CONTAINED IN THE COMPANY RECORDS.

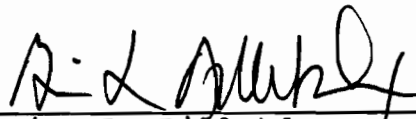
SIGNED *Don D...* METALLURGIST.

NOTE: "NT" SIGNIFIES "NOT TESTED".

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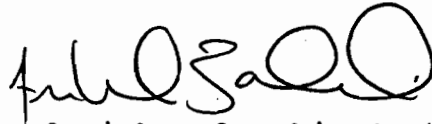


Signed in my presence by Frederick Zalenski, Customer Service Manager of The Casteel Group, Inc.



Brian L. Billetdeaux
Notary Public State of Ohio
My Commission Expires 1/18/99

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Signed in my presence by Frederick Zalenski, Customer
Service Manager of The Casteel Group, Inc.

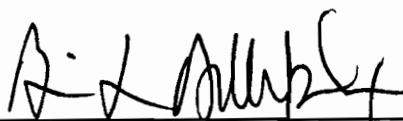


Brian L. Billetdeaux
Notary Public State of Ohio
My Commission Expires 1/18/99

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Signed in my presence by Frederick Zalenski, Customer Service Manager of The Casteel Group, Inc.



Brian L. Billetdeaux
Notary Public State of Ohio
My Commission Expires 1/18/99

METALLURGICAL LABORATORY
REPORT OF TEST

WEIRTON STEEL CORPORATION
WEIRTON, WEST VIRGINIA 26062

INDEX : 002764
MILL ORDER : 002764-003
BUYER'S NO : 1050
ITEM NO : 01
CUST SPEC : ASTM A 570 GRADE 50

MODE: BARGE DATE: 08/27/94

SOLD TO: 20016
THE CASTEEL GROUP INC.
ROUTE 1, BOX 374A
BELPRE, OHIO 45714

SHIP TO: 20248
THE CASTEEL GROUP INC
C/O MARIETTA INDUSTRIAL ENTERPRS.
MILE 179 ON OHIO RIVER
MARIETTA, OHIO 45750

VEHICLE ID: SER106

ROUTE/CARRIER: NM

PRODUCT:
WSQ-50 HOT ROLLED STEEL SHEETS NON-TEMPERPASSED

IPM NUMBER	HEAT NUMBER	YIELD STRENGTH LBS/SQ. IN.	ULTIMATE STRENGTH LBS/SQ. IN.	PER CENT ELONGATION IN 2 INS.	CTG WGT OZ. PER SQ. FT.	RW. B	BENDS
0395419	78340	61,500	74,100	34.5			
0395420	78338	58,600	75,100	33.0			
0395425	78340	61,500	74,100	34.5			
0395426	78339	55,000	71,300	35.5			
0395427	78341	62,800	78,500	33.5			
0395428	78339	55,000	71,300	35.5			
0395429	78340	61,500	74,100	34.5			
0395432	78340	61,500	74,100	34.5			
0395433	78337	57,900	71,900	31.5			
0395436	78337	57,900	71,900	31.5			
0395437	78340	61,500	74,100	34.5			
0395438	78337	57,900	71,900	31.5			
0395440	78341	62,800	78,500	33.5			

***** C H E M I C A L A N A L Y S I S *****									
HEAT	C/MO	MN/AL	S/ZR	P/V	SI/CB	SN/TI	CU/B	CR/PPM	NI/NPPM
78337	.160 .007	.71 .039	.007 NT	.008 .002	.012 .022	.006 NT	.024 NT	.018 24	.025 51
78338	.150 .008	.72 .042	.008 NT	.016 .002	.013 .021	.003 NT	.026 NT	.028 21	.023 43
78339	.150 .008	.70 .043	.007 NT	.010 .002	.010 .022	.003 NT	.022 NT	.018 23	.021 55
78340	.160 .007	.71 .038	.007 NT	.011 .002	.012 .021	.002 .002	.018 NT	.024 27	.020 39
78341	.160 .008	.71 .036	.009 NT	.009 .002	.010 .020	.002 NT	.024 NT	.024 25	.024 45

THIS IS TO CERTIFY THE ABOVE TESTS ARE TRUE AS CONTAINED IN THE COMPANY RECORDS.

SIGNED

David D. J.

METALLURGIST.

NOTE: "NT" SIGNIFIES "NOT TESTED".

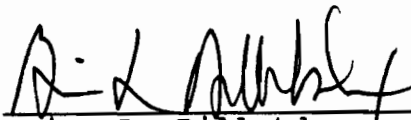
THE ABOVE STEEL CONFORMS TO THE PILING SPEC A-572 GRADE 50.
(HIGH STRENGTH LOW-ALLOY COLUMBIUM-VANADIUM STEELS OF STRUCTURAL
QUALITY)

BY: George L. Loh 11/17/94
WEIRTON STEEL CORP. DATE

The undersigned hereby certifies that this a true and exact copy of the original metallurgical test supplied to The Casteel Group, Inc. by Weirton Steel Corporation. Certain proprietary information has been redacted.



Signed in my presence by Frederick Zalenski, Customer
Service Manager of The Casteel Group, Inc.



Brian L. Billetdeaux
Notary Public State of Ohio
My Commission Expires 1/18/99



The Casteel Group, Inc.

QUALITY CONTROL CERTIFICATE

WHERE IT ALL BEGINS

Plant
Rt. 1, Box 374-A
Belpre, Ohio U.S.A.
45714

Tel: (614) 423-8544
Fax: (614) 423-8541

Page 1 of 1

Date DECEMBER 5, 1994

Customer
SKYLINE STEEL CORPORATION
11550 FUQUA, SUITE 345
HOUSTON, TX 77034

PROJECT: **LONDON AVENUE
OUTFALL CANAL
ORLEANS PARISH, LA**

Specification
Description

**NEW STEEL SHEET PILING
ASTM A 572, GR. 50
CZ101**

**HEAT NUMBERS WERE PRINTED ON
ENDS OF PILING BY THE MILL.**

Bill(s) of Lading

SP 3872

Purchase Order
Your P.O. 487592
Our W.O. 95-044
Ship to: CPU

Heat No.	TENSILE TEST			# of PCS.	# of FT.	CHEMICAL ANALYSIS (%)									
	Yield Point Psi	Tensile Strength Psi	% Elongation 8 in <input type="checkbox"/> 2 in <input checked="" type="checkbox"/>			C	Mn	P	S	Si	Cu	Ni	Cr	V	CB
92665	61500 ****	74100	34.5	8	26.75	0.16	0.71	0.011	0.007	0.012	0.018	0.020	0.024	0.002	0.021
92666	60900 ****	75900	33.5	36	26.75	0.17	0.76	0.006	0.009	0.013	0.043	0.031	0.017	0.002	0.025
*** MANUFACTURED IN THE U.S.A. ***															

We hereby certify that the material described has been tested in accordance with specification and that the results are correct as contained in the records of the Company. We also certify that the chemical (heat) analysis recorded herein is as certified by the steel producer.

By 
FRED ZALENSKI

/jh