



**Date:** June 30, 2017

**Project:** Ketchikan Shipyard  
Transfer Carts

**Solicitation No.:** 18002

**Addendum No. One**

TO ALL PLANHOLDERS:

The enclosed addendum amends the proposal documents for the above referenced Project.

Acknowledgment of this addendum is required on the Proposal Submittal. Failure to do so may subject the proposer to disqualification.

Sincerely,

Andrew Morton

Contracting Officer

<b>ADDENDUM TO THE DESIGN/BUILD DOCUMENTS</b>	<b>Page Number</b> 1	<b>No. of Pages</b> 4 (Attachments 21 pgs)
<b>Addendum No.</b> ONE	<b>Date Addendum Issued:</b> June 30, 2017	
<b>Issuing Office</b> Andrew Morton Alaska Industrial Development Export Authority 813 W Northern Lights Blvd Anchorage, AK 99503 Phone: (907) 771-3990 Fax: (907) 771-3044	<b>Previous Addenda Issued</b>  None	
<b>Project:</b> <i>Ketchikan Shipyard Transfer Carts</i>  <b>Solicitation No.:</b> 18002	<b>Date and Hour Quotes Due:</b> July 10, 2016 at 2:30 p.m., prevailing Anchorage time.	

**NOTICE TO PROPOSERS:**

Proposers must acknowledge receipt of this addendum prior to the hour and date set for proposal due date by one of the following methods:

- (a) By acknowledging receipt of this addendum on the proposal form submitted.
- (b) By email or telefacsimile which includes a reference to the project and addendum number.

The proposal documents require acknowledgment individually of all addenda to the drawings and/or specifications. This is a mandatory requirement and any proposal received without acknowledgment of receipt of addenda may be classified as not being a responsive proposal. If, by virtue of this addendum it is desired to modify a proposal already submitted, such modification may be made by email or telefacsimile provided such an email or telefacsimile makes reference to this addendum and is received prior to the opening hour and date specified above.

\*\*\*\*\*  
\*\*\*\*\*

The Proposal documents for the above project are amended as follows (All other terms and conditions remain unchanged):

**GENERAL – QUESTIONS & ANSWERS**

**Q1:** I have a contractual question on this bid. The first page of the solicitation states:

*“BIDDER'S NOTICE: By signature on this form, the bidder certifies that:  
(1) the bidder has a valid Alaska business license, or will obtain one prior to award of any contract resulting from this ITB. If the bidder possesses a valid Alaska business license, the license number must be written below or one of the following forms of evidence must be submitted with the bid:”*

Further below on page one it states:

*“If a bidder fails to comply with (1) at the time designated in the ITB for opening the AUTHORITY will reject the bid.”*

We are not an Alaskan business. Our facility is not located in Alaska. Please advise.

**A1:** The requirement to have an Alaska business license does not require your office to be located in Alaska.

**Q2:** In review of the bid package #18002 for Ketchikan Transfer Carts I have a few comments that I hope you would clarify. See attached highlight's to reference my comments. (drawings attached, Attachment 1)

G-001 Identity the Cart description: 4 wheel Keel & 2 wheel Bilge  
A-001 Reference Only  
S-101 Reference Only of Existing Modified carts  
S-102 Reference Only of Existing Modified carts  
S-201 Details of New Two-wheel Bilge Cart beam weldment (16 req'd)  
S-202 Details of New Two wheel Bilge Cart beam components (excluding Items #4-9 from SOW)  
S-301 Details of New Four-wheel Keel Cart beam weldment (11 req'd)  
S-302 Details of New Four-wheel Keel Cart beam components (Excluding Items #4-9 from SOW)  
S-401 Details of New wheel strut weldment (Excluding Item #26, need correction of item #22 size)  
S-501 Reference Only (all Blocking, Clips and Fasteners excluded from SOW)

**A2:**

G-001 Yes  
A-001 Yes  
S-101 Yes  
S-102 Yes  
S-201 Yes  
S-202 Yes  
S-301 Yes  
S-302 Yes  
S-401 Yes exclude stiffener, C10x20# x114" for keel carts and C10x20#x95" for bilge carts  
S-501 Yes

**Q3.** There are a few of drawings that seem to be missing the picture or sketch but show dimensions and dimension lines. Can you get me corrected drawings please? S-102, S-201, S-202, S-302 are attached.

**A3.** The corrected drawings are attached at the end of this Addendum. (Attachment #2)

**DESIGN DRAWINGS**

A. Remove and Replace Design Drawings with attached Revised Corrected Drawings Set Sheets G-101, A-001, S-101, S-102, S-201, S-202, S-301, S-302, S-401, S-501, & add KP-TRCR Model drawing. **Attachment 2.**

Attachments:

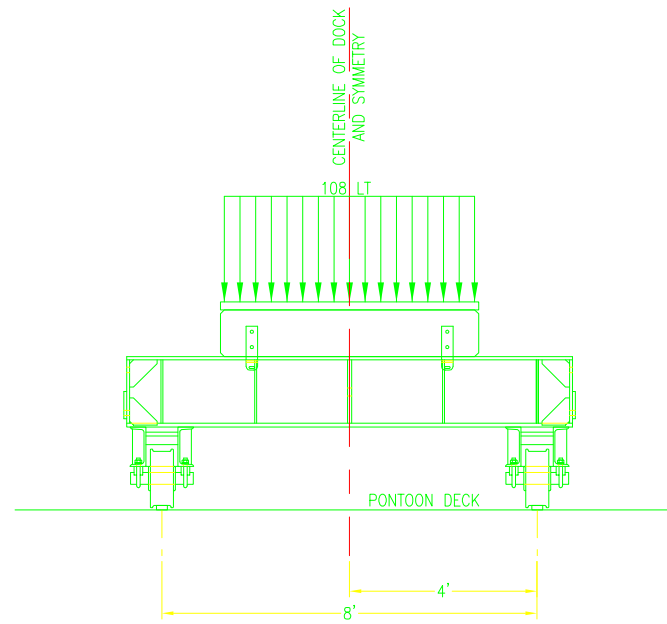
1. Vendors edited drawings referenced in Question/Answer section, Question #2/Answer #2. Sheets G-001, A-001, S-101, S-102, S-201, S-202, S-301, S-302, S-401, S-501 (10 Pages)

2. Revised Design Drawings Sheets G-101, A-001, S-101, S-102, S-201, S-202, S-301, S-302, S-401, S-501, & add KP-TRCR Model drawing. (11 Pages)

**END OF ADDENDUM**



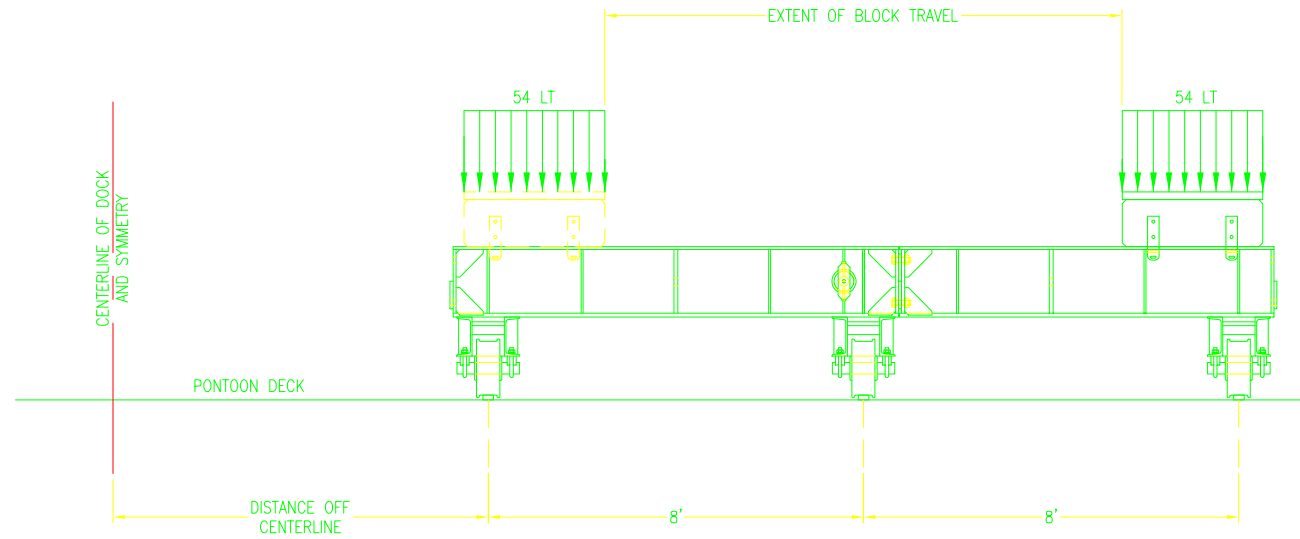
FILE NAME: \\server1\user\20. MARNE DIVISON\REG HOME\002 Transfer Cars\Revised Cars - 2017\3556-A-001 rev 1.dwg LAYOUT NAME: 3556-A-001 - Layout1 PLOTTED: Friday, June 23, 2017 - 11:53am USER: Greg Heger



**MAXIMUM ALLOWED KEEL BLOCK LOADING**

SCALE: 1/2"=1'-0"

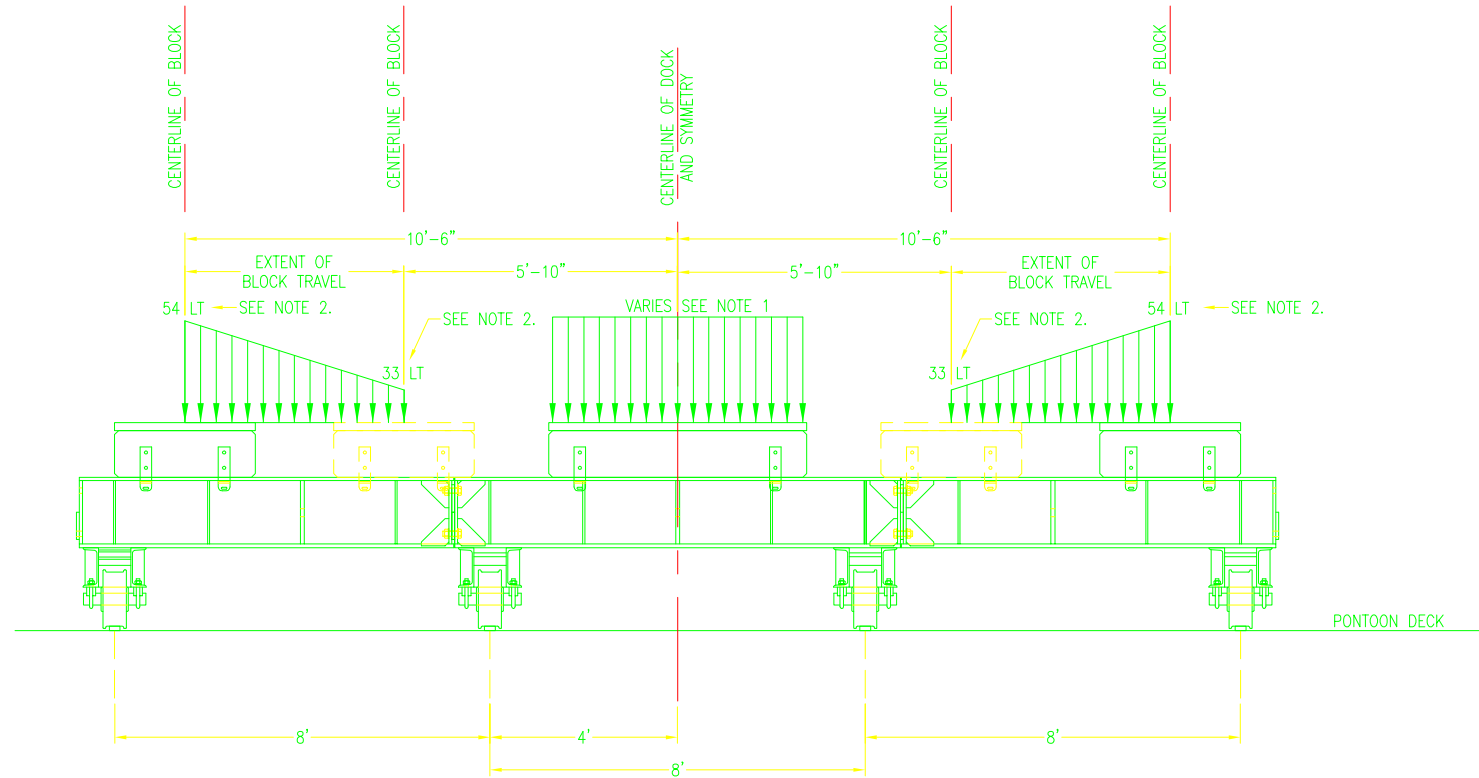
C2



**MAXIMUM ALLOWED SIDE BLOCK LOADING - 1 SIDE BLOCK PER CAR**

SCALE: 1/2"=1'-0"

C5



**MAXIMUM ALLOWED BLOCK LOADING ON TRANSFER CAR ASSEMBLY AT DOCK CENTERLINE**

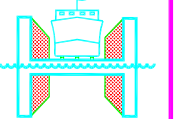
SCALE: 1/2"=1'-0"

A4

For Reference Only

**NOTES:**

- 1.) COMBINATION OF BOTH SIDE BLOCK LOADS AND KEEL BLOCK LOAD SHOULD NOT EXCEED 108 LT OR RATED CAPACITY OF DOCK.
- 2.) ALLOWED SIDE BLOCK LOAD IS BASED ON CENTER OF SIDE BLOCK LOCATION.



**HEGER**  
DRY DOCK, Inc.

DRY DOCK ENGINEERS  
DESIGN, INSPECTION AND CERTIFICATION  
531 CONCORD STREET  
HOLLISTON, MA 01746  
(508) 429-1800

DES: MAP  
CHIEF ENG.: R. HEGER  
DATE: 9/21/2012

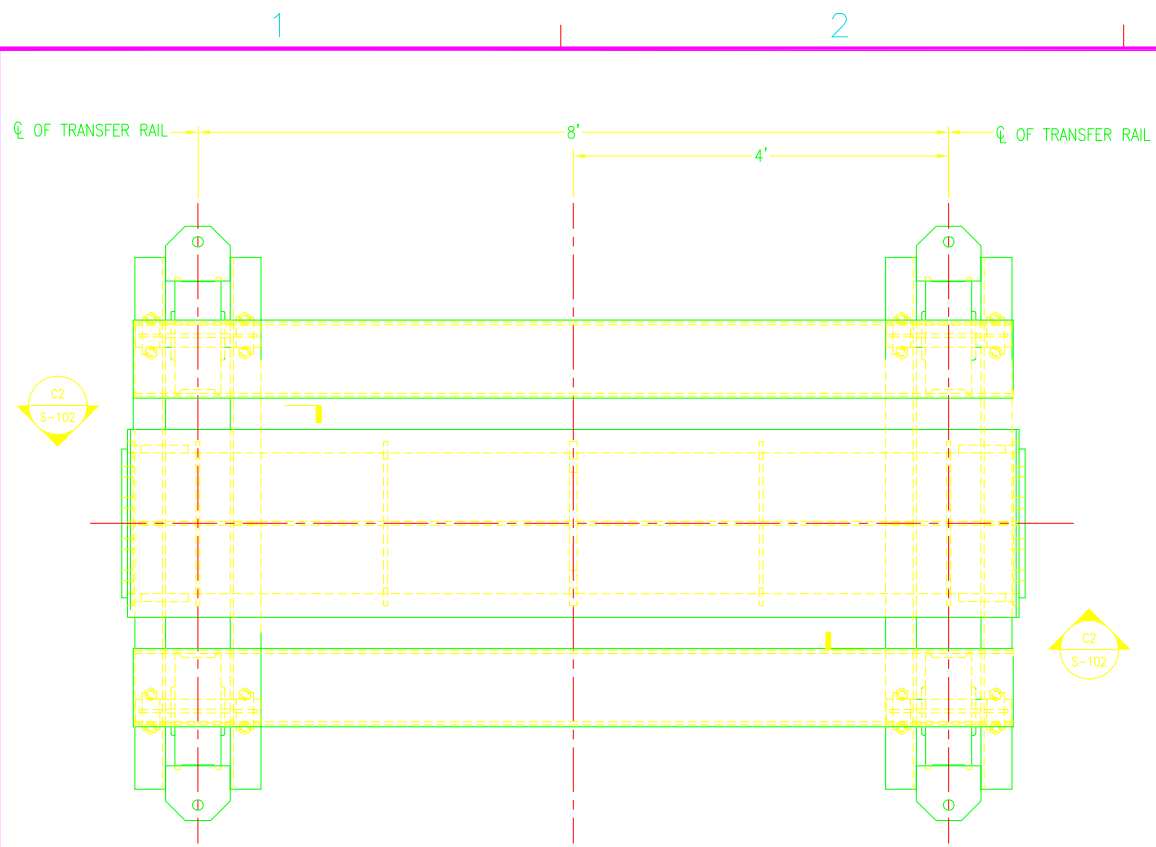
ALASKA SHIP & DRYDOCK, LLC.  
KETCHIKAN, ALASKA  
TRANSFER CARS WITH PULL BLOCKS  
BLOCK LOADING DIAGRAM

SCALE: AS NOTED  
PROJECT NO.: 3556-D  
CONSTR. CONTR. NO.

SHEET 2 OF 10

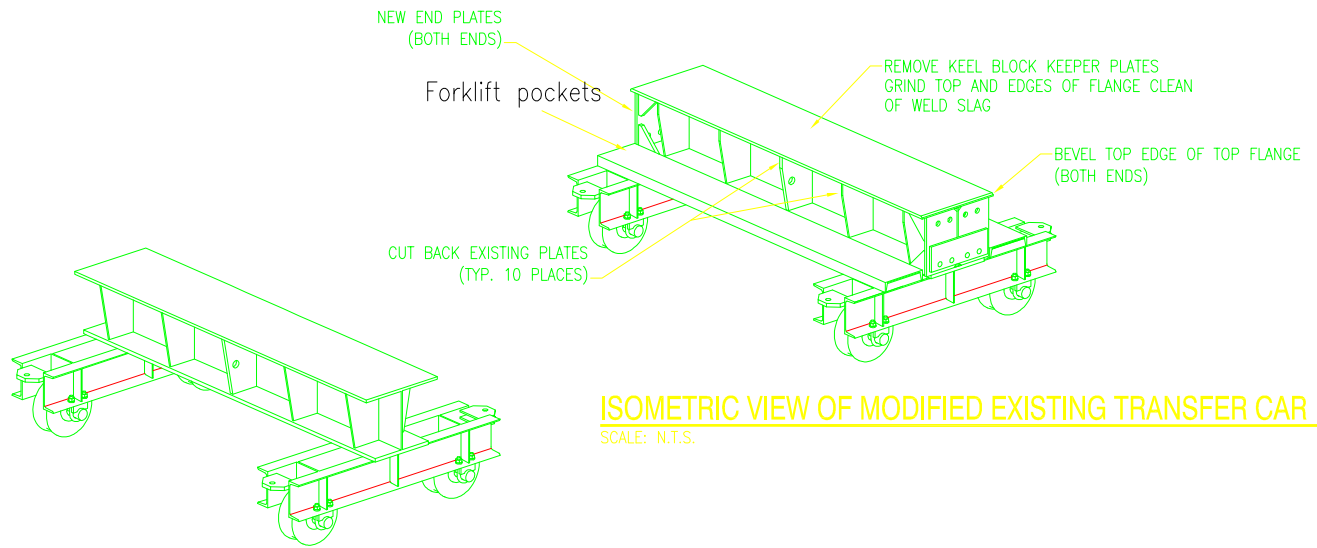
A-001

FILE NAME: \\server1\work\20. MARNE DIVISION\REG HOME\DOC Transfer Carts\Revised Carts - 2017\3556-S-101.dwg LAYOUT NAME: 3556-S-101 - Layout1 PLOTTED: Friday, June 09, 2017 1:20pm USER: Greg.Hewer

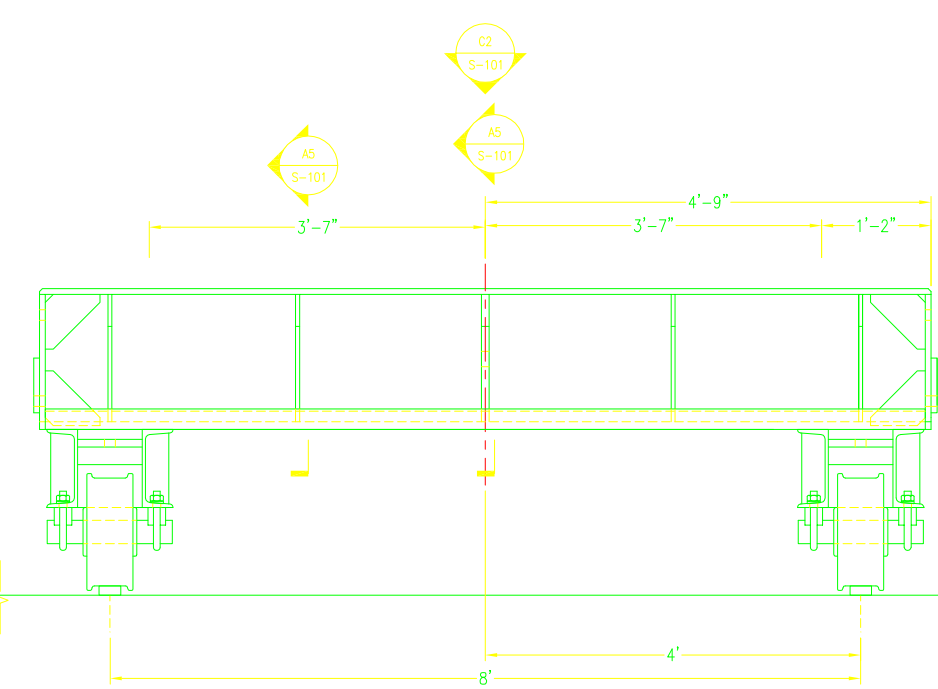


PLAN VIEW OF MODIFIED EXISTING TRANSFER CAR SCALE: 1"=1'-0" S-101 C2

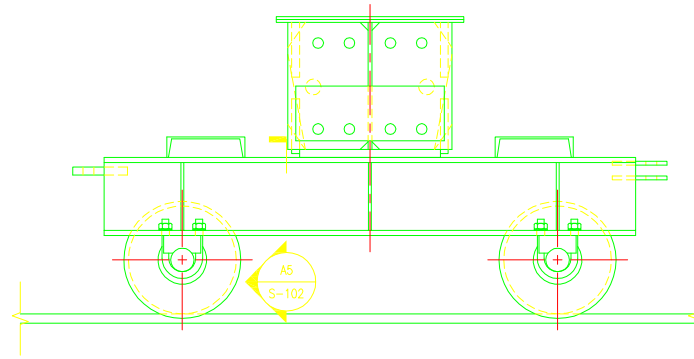
11 Four wheel transfer carts



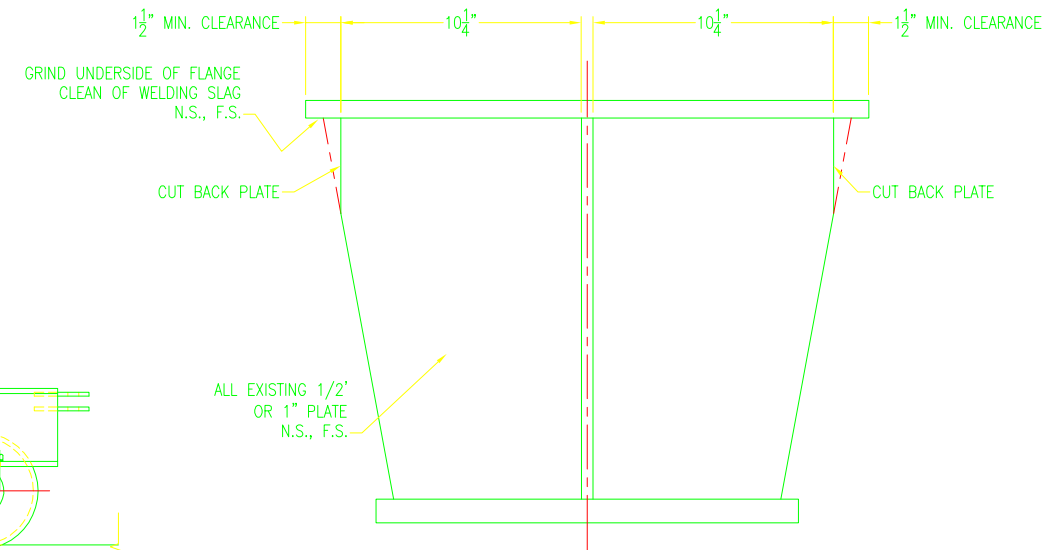
ISOMETRIC VIEW OF MODIFIED EXISTING TRANSFER CAR SCALE: N.T.S. C5



ELEVATION OF MODIFIED EXISTING TRANSFER CAR SCALE: 1"=1'-0" A2



RIGHT SIDE ELEVATION OF MODIFIED EXISTING TRANSFER CAR SCALE: 1"=1'-0" S-101 A4

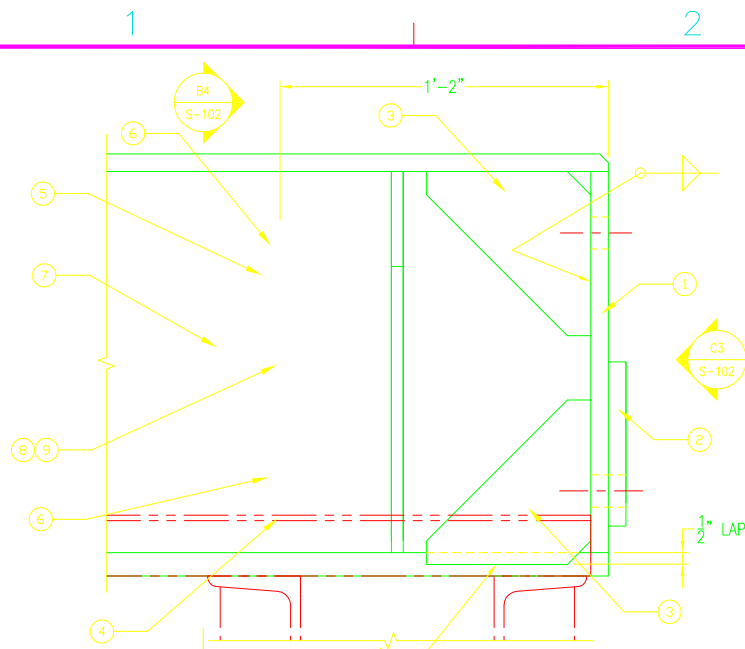


SECTION SCALE: 3"=1'-0" S-101 A5

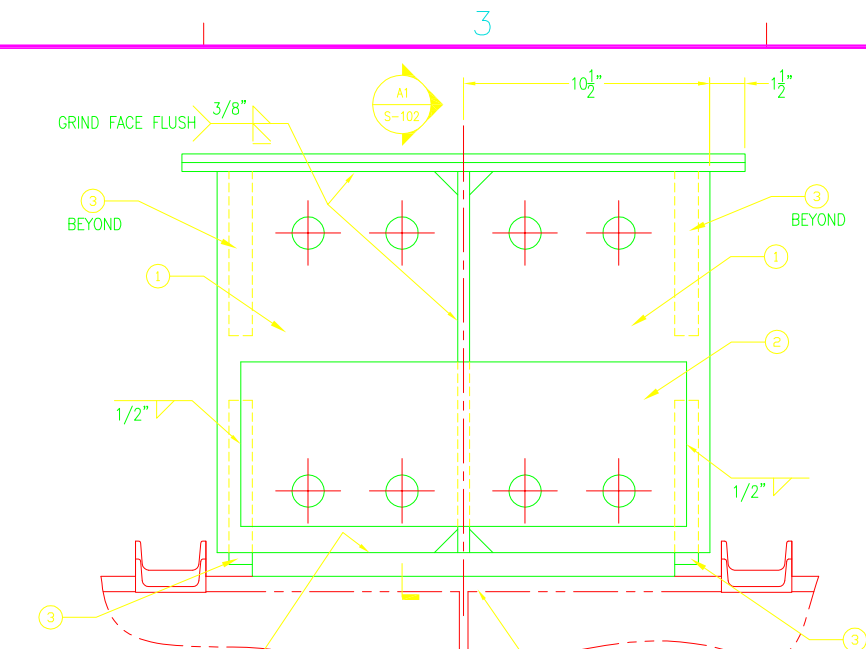
For Reference Only

DATE	9/21/2012
APPR.	
DATE	
CHK	R. HEGER
DES	
MAP	
DRW	JJB
DRY DOCK ENGINEERS	
DESIGN INSPECTION AND CERTIFICATION	
531 CONCORD STREET	
HOLLISTON, MA 01746	
(508) 429-1800	
HEGER DRY DOCK, Inc.	
ALASKA SHIP & DRYDOCK, LLC.	
KETCHIKAN, ALASKA	
TRANSFER CARS WITH PULL BLOCKS	
MODIFICATIONS TO EXISTING TRANSFER CAR	
PRODUCT TITLE:	TRANSFER CARS WITH PULL BLOCKS
DRAWING TITLE:	MODIFICATIONS TO EXISTING TRANSFER CAR
SCALE:	AS NOTED
PROJECT NO.:	3556-D
CONSTR. CONTR. NO.	
SHEET 3 OF 10	
S-101	

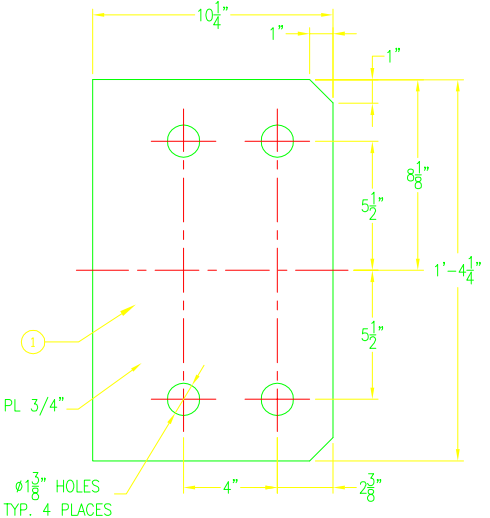
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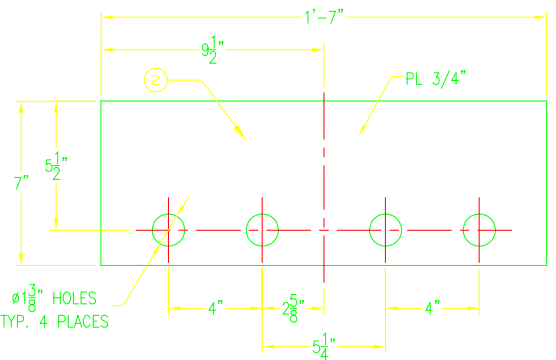
**SECTION**  
SCALE: 3"=1'-0"  
S-101 C2



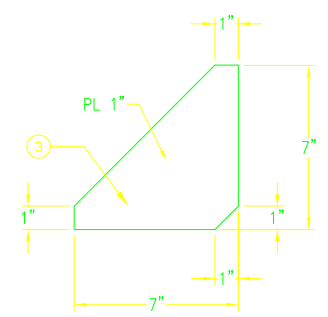
**END VIEW**  
SCALE: 3"=1'-0"  
S-102 C3



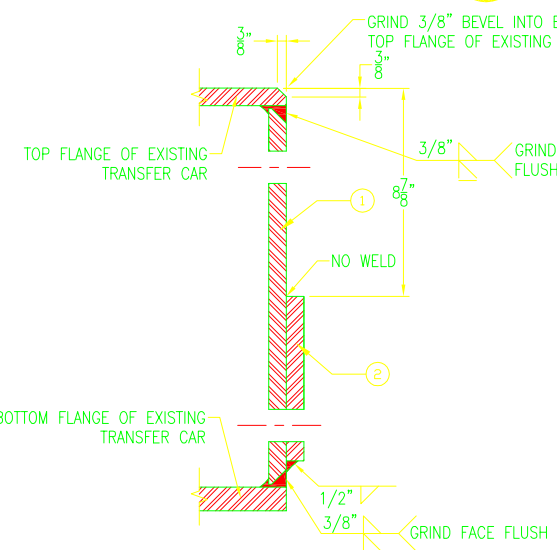
**DETAIL OF 3/4" PLATE - PART #1**  
SCALE: 3"=1'-0"  
B1



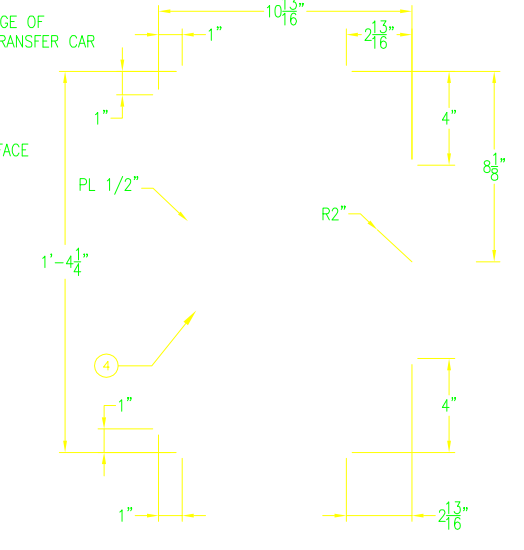
**DETAIL OF 3/4" PLATE - PART #2**  
SCALE: 3"=1'-0"  
B2



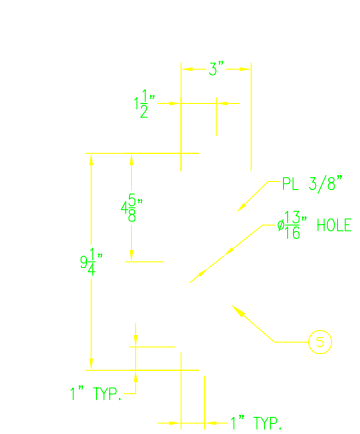
**DETAIL OF 1" GUSSET PLATE - PART #3**  
SCALE: 3"=1'-0"  
B3



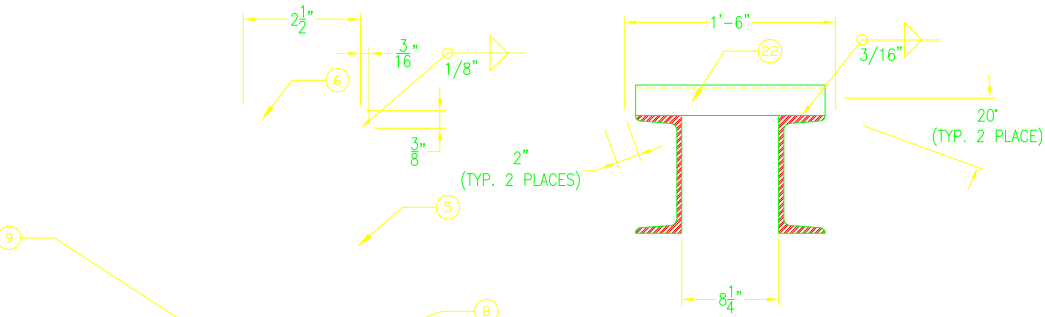
**SECTION**  
SCALE: 3"=1'-0"  
S-102 A1



**DETAIL OF 1/2" PLATE - PART #4**  
SCALE: 3"=1'-0"  
A2

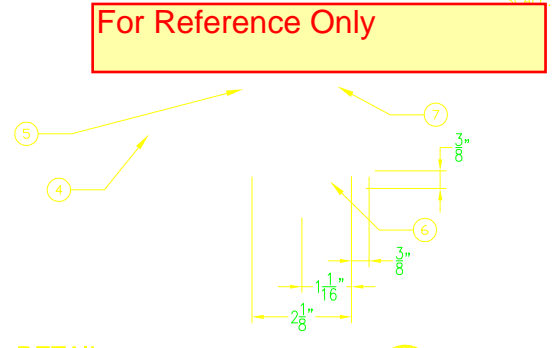


**DETAIL OF 3/8" PLATE - PART #5**  
SCALE: 3"=1'-0"  
A3



**SECTION**  
SCALE: 3"=1'-0"  
S-102 B4

**SECTION**  
SCALE: 1 1/2"=1'-0"  
S-101, S-102 A5

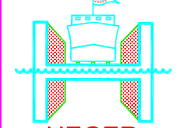


**DETAIL**  
SCALE: 1/2" = 1" (HALF)  
S-102 A4

Or approved equal

**NOTES:**

- 1.) TYPE 5, 316 STAINLESS STEEL PULLEY, 6" DIA. x 1 5/8" WIDE 3/4" DIA. SHAFT. 8,000 lbs. WORKING LOAD LIMIT WITH A PLAIN BRONZE BEARING. SUPPLIED BY MCMASTER-CARR www.mcmaster.com PART No. 3524T27
- 2.) 18-8 STAINLESS STEEL CLEVIS PIN, 3/4" DIA. x 3 1/2" LONG 3 1/4" USABLE LENGTH. SUPPLIED BY MCMASTER-CARR www.mcmaster.com PART No. 92390A529
- 3.) 18-8 STAIN STEEL COTTER PIN, 1/8" DIA. x 1 1/2" LONG SUPPLIED BY MCMASTER-CARR www.mcmaster.com PART No. 98401A485



**HEGER**  
**DRY DOCK, Inc.**  
DRY DOCK ENGINEERS  
DESIGN, INSPECTION AND CERTIFICATION  
531 CONCORD STREET  
HOLLISTON, MA 01746  
(508) 429-1800

DES. MAP. DRW. JJB. CHK. REH.  
CHIEF ENG. R. HEGER  
DATE: 9/21/2012

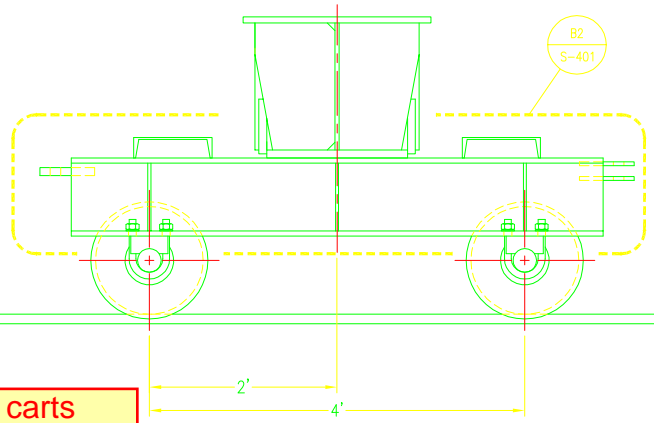
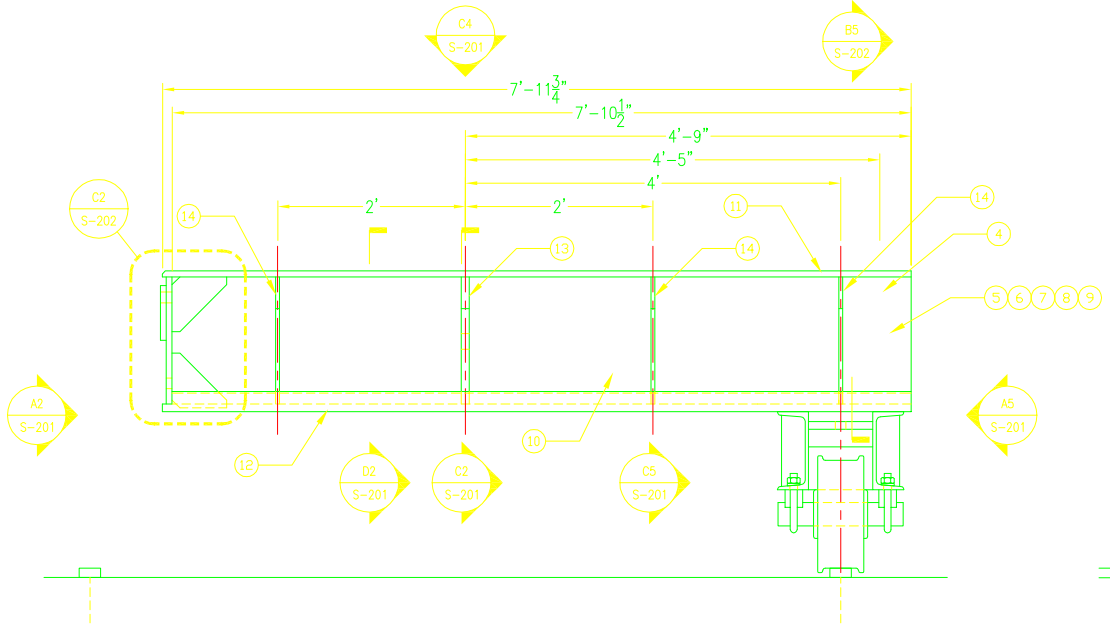
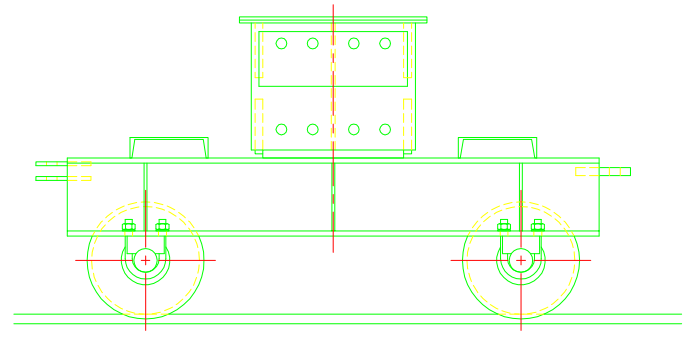
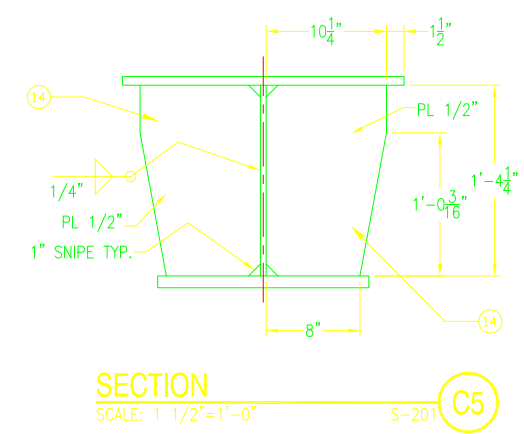
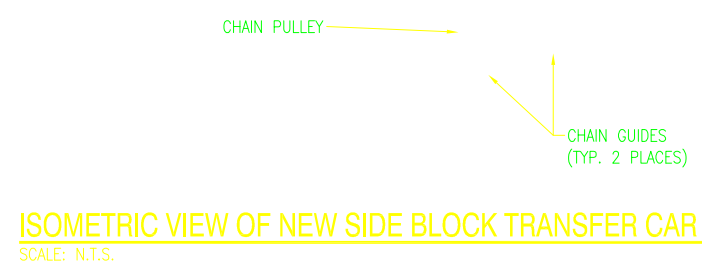
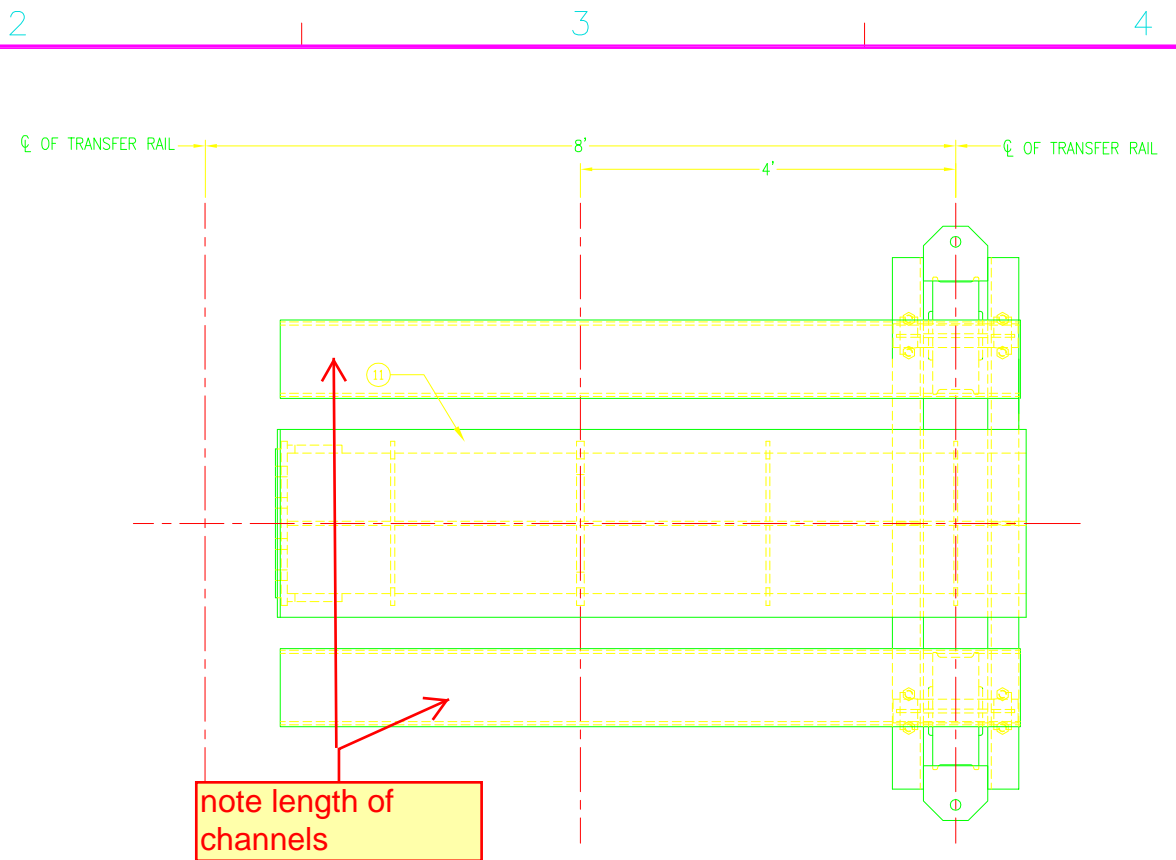
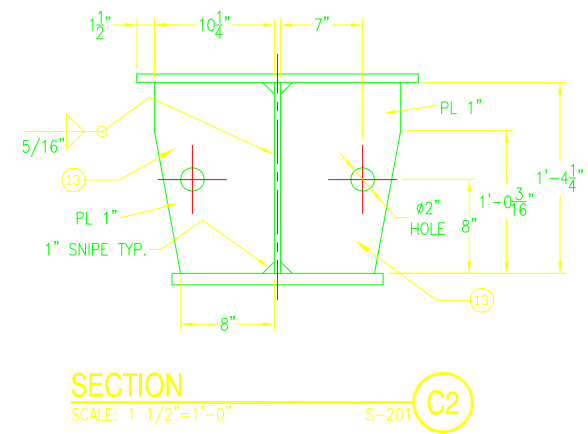
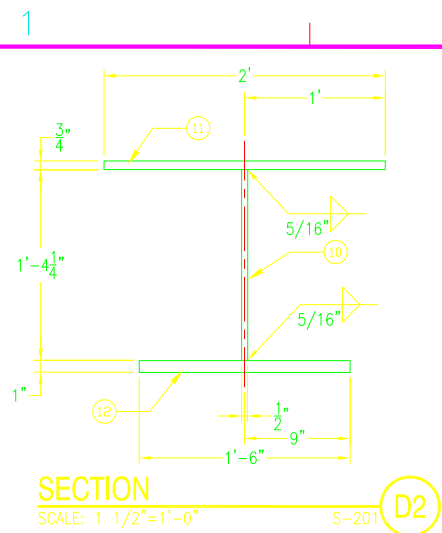
**ALASKA SHIP & DRYDOCK, LLC.**  
 KETCHIKAN, ALASKA  
 TRANSFER CARS WITH PULL BLOCKS  
 MODIFICATIONS TO EXISTING TRANSFER CAR

No. REQUIRED IN THIS LIST IS PER MODIFIED TRANSFER CAR.

PART No.	No. REQ	DESCRIPTION	REMARKS
22	4	C5x3 APPROX. 1'-10 3/4" LONG	
9	2	1/8" DIA. COTTER PIN SEE NOTE 3	
8	2	S.S. CLEVIS PIN SEE NOTE 2	
7	2	STAINLESS STEEL PULLEY SEE NOTE 1	
6	4	2 1/2" x 1" x 3/8" PL	AH36
5	4	9 1/4" x 3" x 3/8" PL	AH36
4	2	1'-4 1/4" x 10 13/16" x 1/2" PL	AH36
3	8	7" x 7" x 1" GUSSET PL	AH36
2	2	1'-7" x 7" x 3/4" PL	AH36
1	4	1'-4 1/4" x 10 1/4" x 3/4" PL	AH36

SCALE: AS NOTED  
PROJECT NO.: 3556-D  
CONSTR. CONTR. NO.  
SHEET 4 OF 10  
S-102





LEFT SIDE VIEW OF NEW SIDE BLOCK TRANSFER CAR  
SCALE: 1"=1'-0" S-201 A2

ELEVATION OF NEW SIDE BLOCK TRANSFER CAR  
SCALE: 1"=1'-0" A4

RIGHT SIDE VIEW OF NEW SIDE BLOCK TRANSFER CAR  
SCALE: 1"=1'-0" S-201 A5

DATE	APPR.	
DATE	DRW.	DESCRIPTION

**HEGER**  
DRY DOCK, Inc.  
DRY DOCK ENGINEERS  
DESIGN, INSPECTION AND CERTIFICATION  
531 CONCORD STREET  
HOLLISTON, MA 01746  
(508) 429-1800

DES. MAP	DRW. JJB	CHK. REH	SEA.
CHIEF ENG. R. HEGER			
DATE: 9/21/2012			

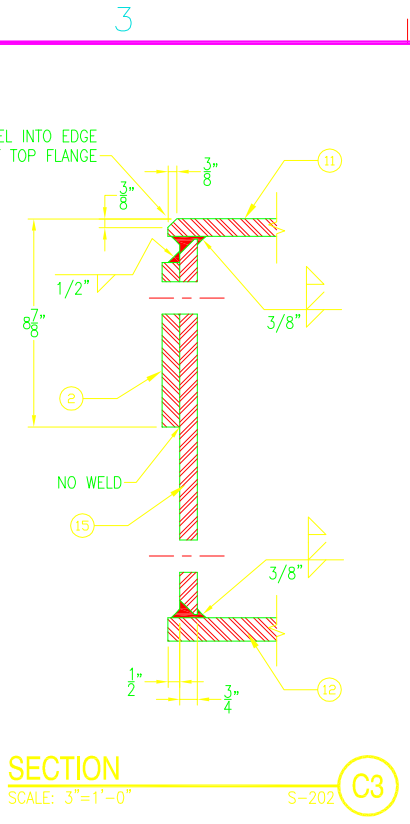
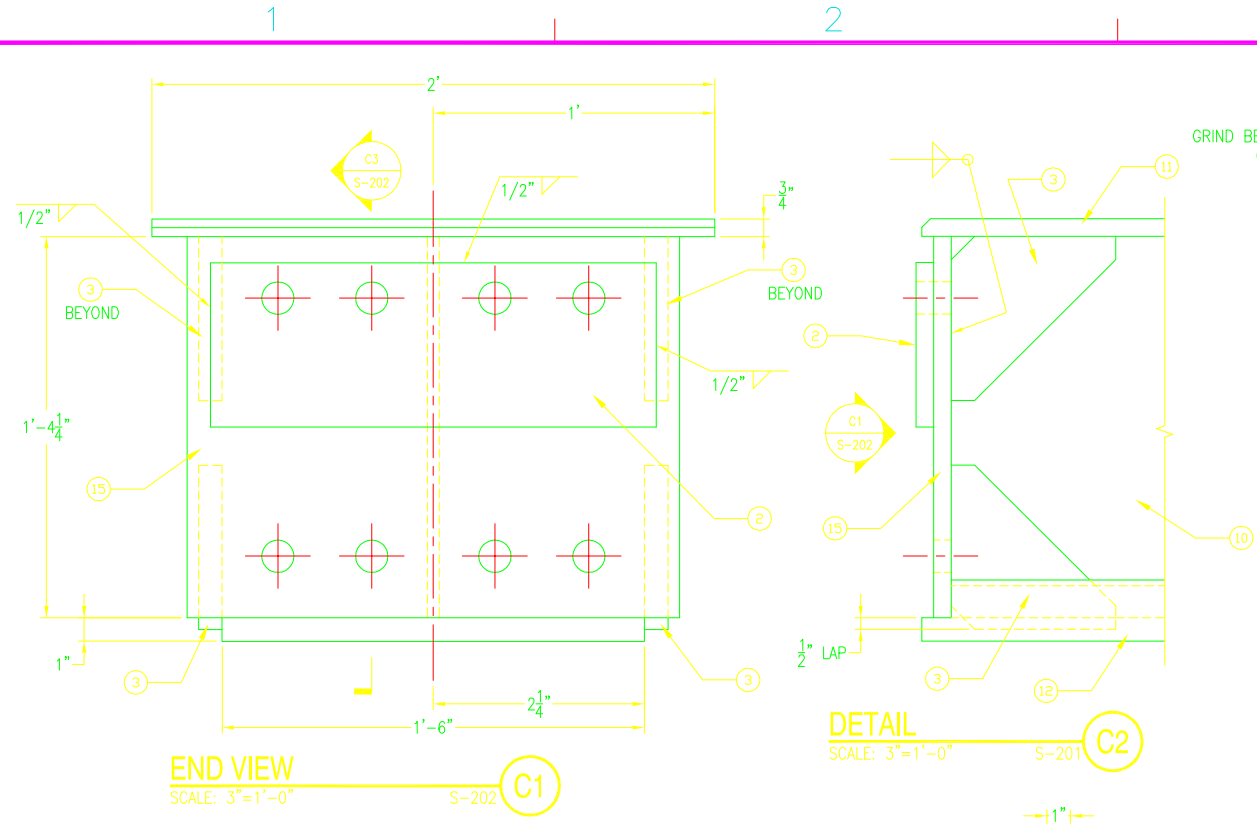
ALASKA SHIP & DRYDOCK, LLC.  
KETCHIKAN, ALASKA  
TRANSFER CARS WITH PULL BLOCKS  
NEW SIDE BLOCK TRANSFER CAR

CLIENT NAME AND ADDRESS: ALASKA SHIP & DRYDOCK, LLC. USE OF THESE DRAWINGS OR REPRODUCTION OF THESE DRAWINGS WITHOUT THE EXPRESS WRITTEN PERMISSION IS PROHIBITED.  
PROJECT TITLE: TRANSFER CARS WITH PULL BLOCKS  
DRAWING TITLE: NEW SIDE BLOCK TRANSFER CAR

SCALE: AS NOTED
PROJECT NO.: 3556-D
CONSTR. CONTR. NO.

FILE NAME: \\server1\user1\p01\WERNER DIVISION\GREG HOME\DCS Transfer Cars\Revised Cars - 2017\3556-S-201.dwg LAYOUT NAME: 3556-S-201 - Layout1 PLOTTED: Friday, June 23, 2017 12:38pm USER: Greg.Howe

FILE NAME: \\media\1\work\2017\MARINE DIVISION\REG HOME\DDC transfer Cars\Revised Cars - 2017\3556-S-202.dwg LAYOUT NAME: 3556-S-202 - Layout1 PLOTTED: Friday, June 23, 2017 - 12:59pm USER: Greg.Horne

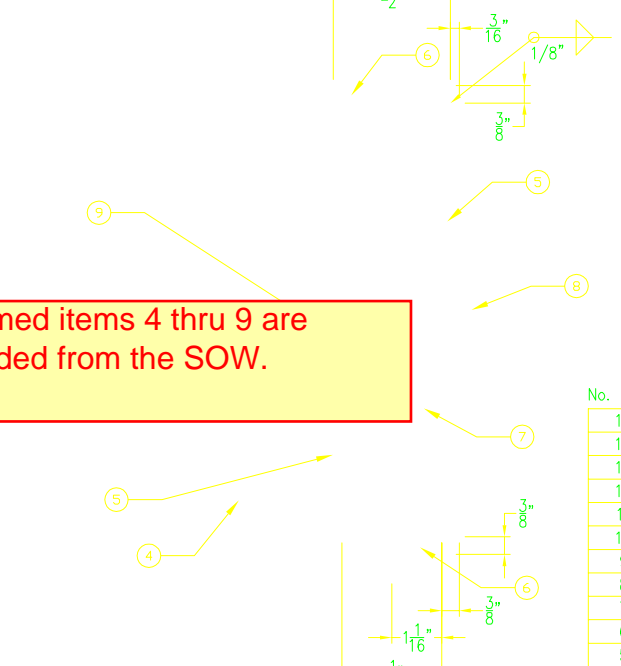
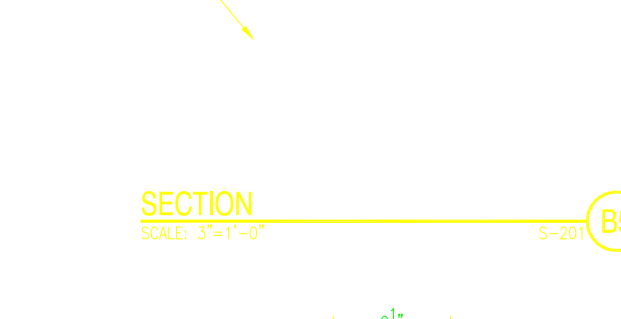
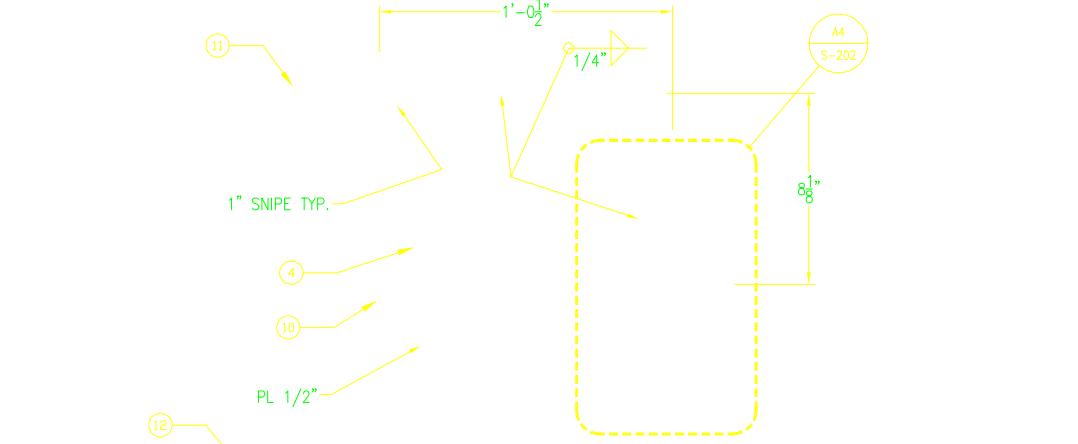
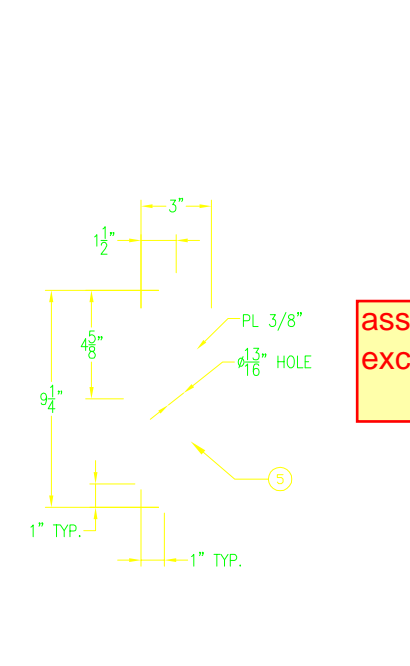
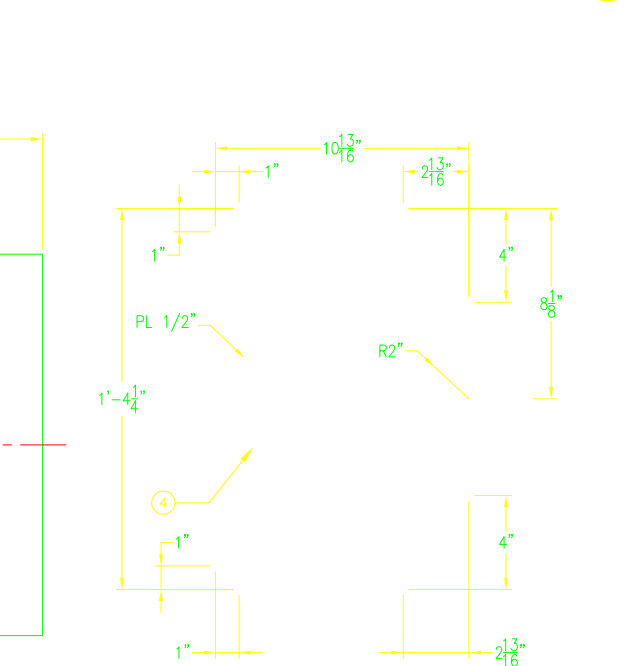
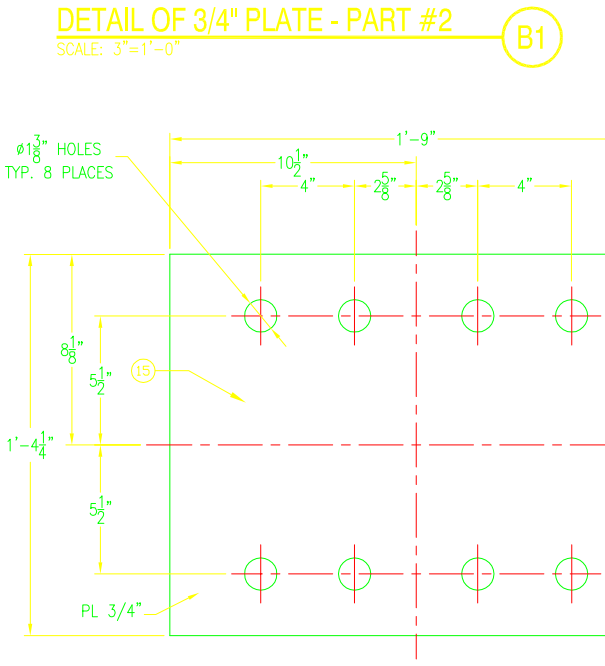
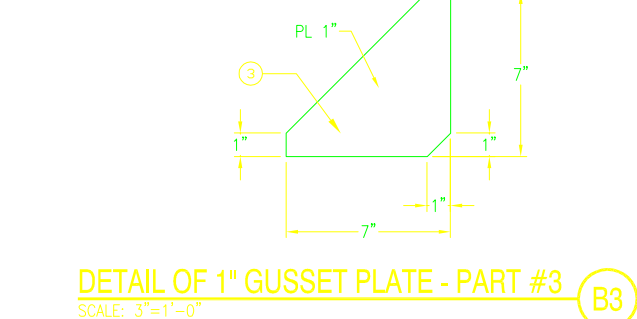
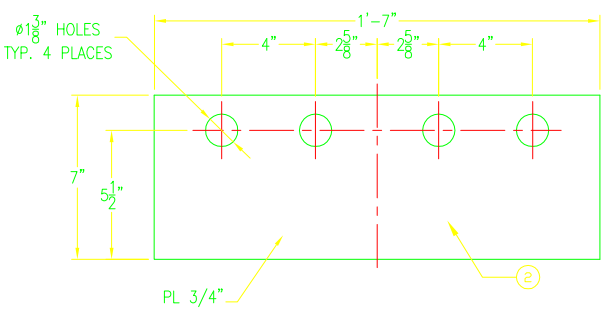


**NOTES:**

- 1.) TYPE 5, 316 STAINLESS STEEL PULLEY, 6" DIA. x 1 5/8" WIDE 3/4" DIA. SHAFT. 8,000 lbs. WORKING LOAD LIMIT WITH A PLAIN BRONZE BEARING. SUPPLIED BY MCMASTER-CARR www.mcmaster.com PART No. 3524127
- 2.) 18-8 STAINLESS STEEL CLEVIS PIN, 3/4" DIA. x 3 1/2" LONG 3 1/4" USABLE LENGTH. SUPPLIED BY MCMASTER-CARR www.mcmaster.com PART No. 92390A529
- 3.) 18-8 STAIN STEEL COTTER PIN, 1/8" DIA. x 1 1/2" LONG SUPPLIED BY MCMASTER-CARR www.mcmaster.com PART No. 98401A485

Or approved equal

**excluded**



**assumed items 4 thru 9 are excluded from the SOW.**

No. REQUIRED IN THIS LIST IS PER SIDE BLOCK TRANSFER CAR.

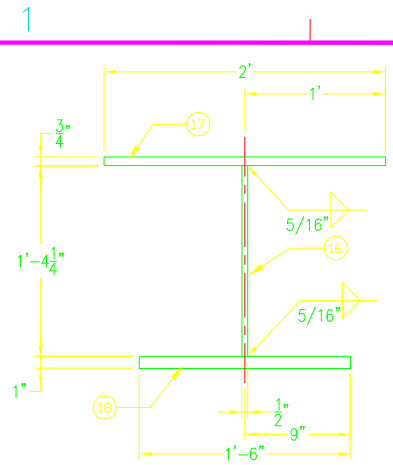
PART No.	No. REQ	LIST OF MATERIALS	REMARKS
15	1	1'-9" x 1'-4 1/4" x 3/4"	AH36
14	6	1'-4 1/4" x 10 1/4" x 1/2" PL	AH36
13	2	1'-4 1/4" x 10 1/4" x 1" PL	AH36
12	1	7'-11 3/4" x 1'-6" x 1" PL	AH36
11	1	7'-11 3/4" x 2'-0" x 3/4" PL	AH36
10	1	7'-10 1/2" x 1'-4 1/4" x 1/2" PL	AH36
9	1	1/8" DIA. COTTER PIN SEE NOTE 3	
8	1	S.S. CLEVIS PIN SEE NOTE 2	
7	1	STAINLESS STEEL PULLEY SEE NOTE 1	
6	2	2 1/2" x 1" x 3/8" PL	AH36
5	2	9 1/4" x 3" x 3/8" PL	AH36
4	1	1'-4 1/4" x 10 13/16" x 1/2" PL	AH36
3	4	7" x 7" x 1" GUSSET PL	AH36
2	1	1'-7" x 7" x 3/4" PL	AH36

HEGER DRY DOCK, Inc.  
DRY DOCK ENGINEERS  
DESIGN INSPECTION AND CERTIFICATION  
531 CONCORD STREET  
HOLLISTON, MA 01746  
(508) 429-1800

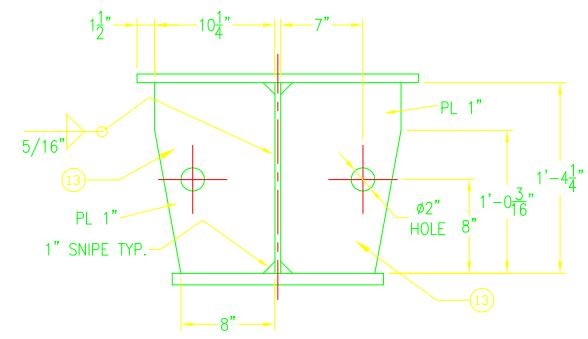
ALASKA SHIP & DRYDOCK, LLC.  
KETCHIKAN, ALASKA  
TRANSFER CARS WITH PULL BLOCKS  
NEW SIDE BLOCK TRANSFER CAR

DES. MAP.	DRW.	JJB.	CHK.	REH.
CHIEF ENG. R. HEGER				
DATE: 9/21/2012				
SCALE: AS NOTED				
PROJECT NO.: 3556-D				
CONSTR. CONTR. NO.				
SHEET 6 OF 10				
S-202				

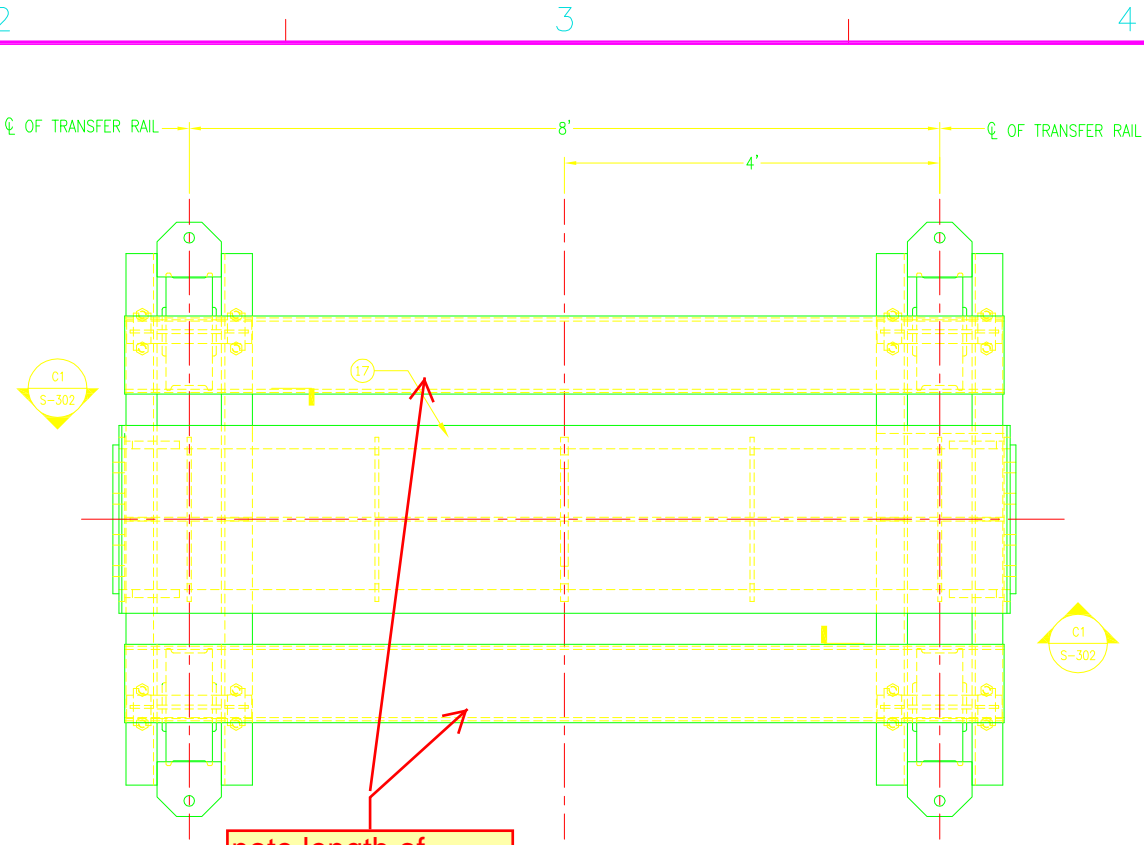
FILE NAME: \\media\1\work\2017\MEHNE DIVISION\GREG HOME\DD2 Transfer Carts\Revised Carts - 2017\35565-S-301.dwg LAYOUT NAME: 35565-S-301 - Layout1 PLOTTED: Friday, June 23, 2017 - 12:59pm USER: Greg.Horne



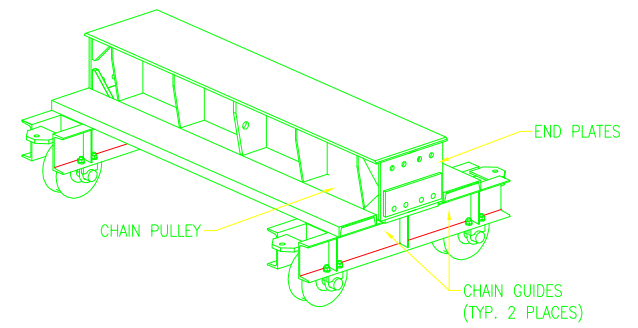
**SECTION D2**  
SCALE: 1 1/2"=1'-0"  
S-301



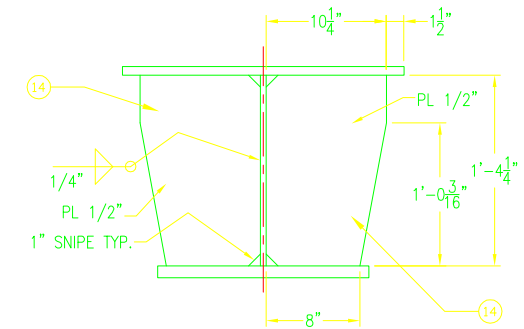
**SECTION C2**  
SCALE: 1 1/2"=1'-0"  
S-301



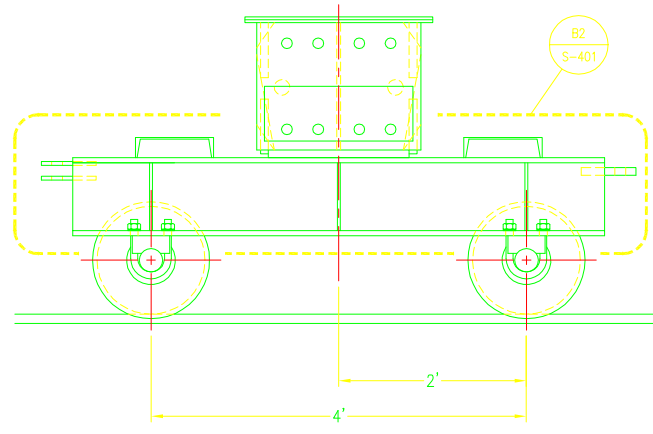
**PLAN VIEW OF NEW TRANSFER CAR C4**  
SCALE: 1"=1'-0"  
S-301



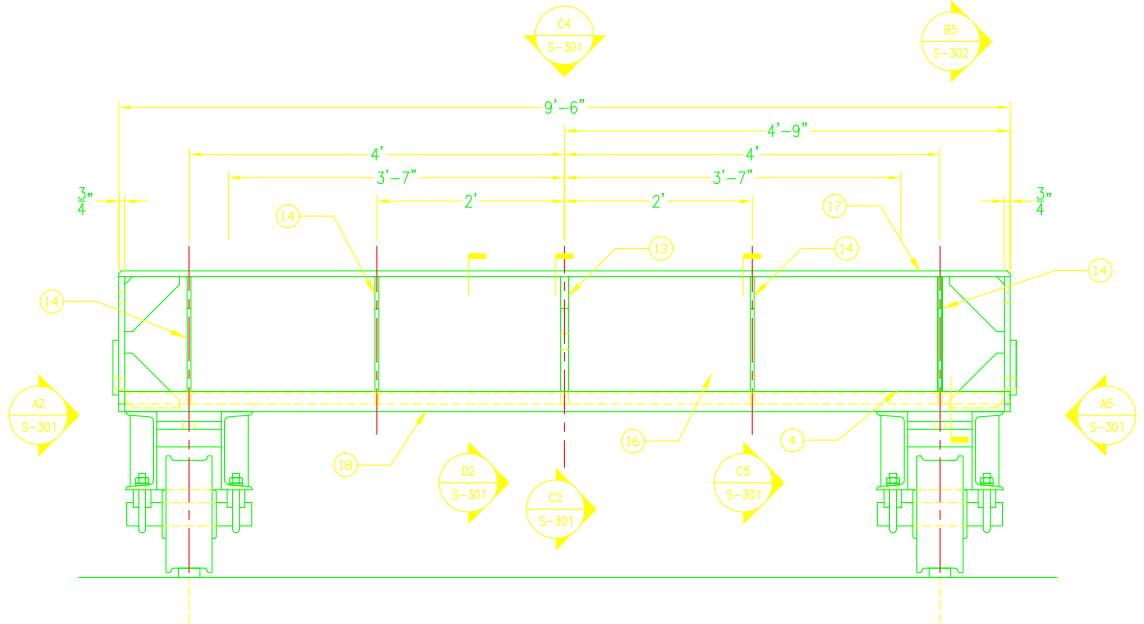
**ISOMETRIC VIEW OF NEW TRANSFER CAR D5**  
SCALE: N.T.S.



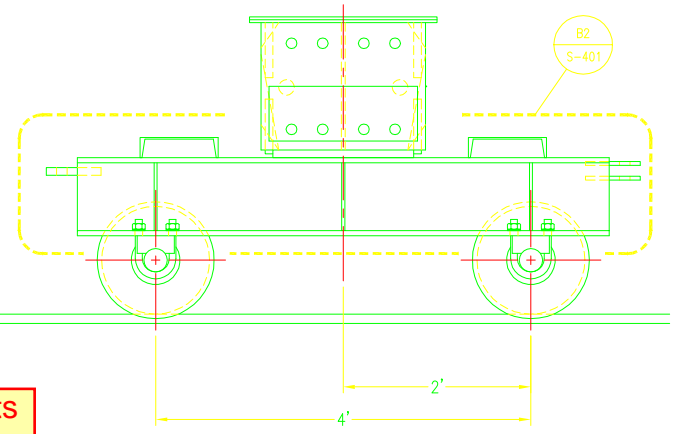
**SECTION C5**  
SCALE: 1 1/2"=1'-0"  
S-301



**LEFT SIDE VIEW OF NEW TRANSFER CAR A2**  
SCALE: 1"=1'-0"  
S-301



**ELEVATION OF NEW TRANSFER CAR A4**  
SCALE: 1"=1'-0"  
S-301

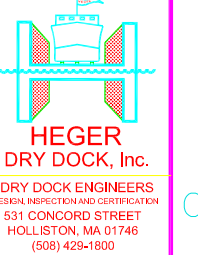


**RIGHT SIDE VIEW OF NEW TRANSFER CAR A5**  
SCALE: 1"=1'-0"  
S-301

note length of channels

11ea. four wheel Keel carts

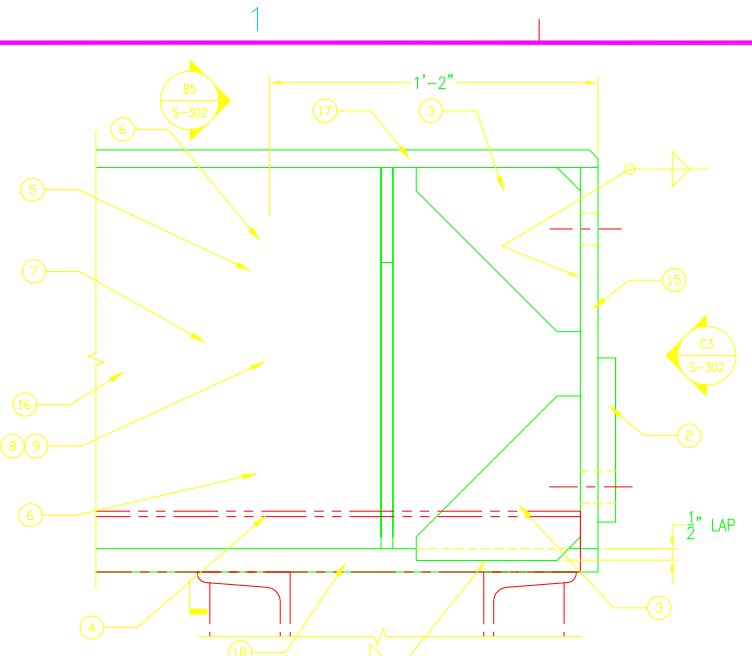
NO.	DATE	APPR.



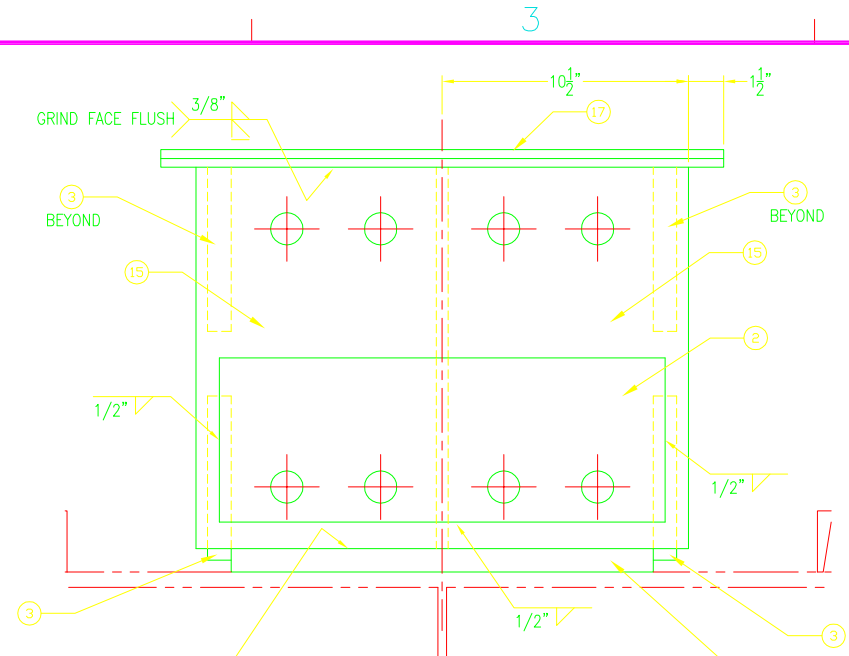
DES. MAP. DRW. JJB. CHK. REH.
CHIEF ENG. R. HEGER
DATE: 9/21/2012

ALASKA SHIP & DRYDOCK, LLC. KETCHIKAN, ALASKA	PROJECT TITLE: TRANSFER CARS WITH PULL BLOCKS
CLIENT NAME AND ADDRESS:	DRAWING TITLE: NEW TRANSFER CAR
SCALE: AS NOTED	PROJECT NO.: 3556-D
CONSTR. CONTR. NO.	

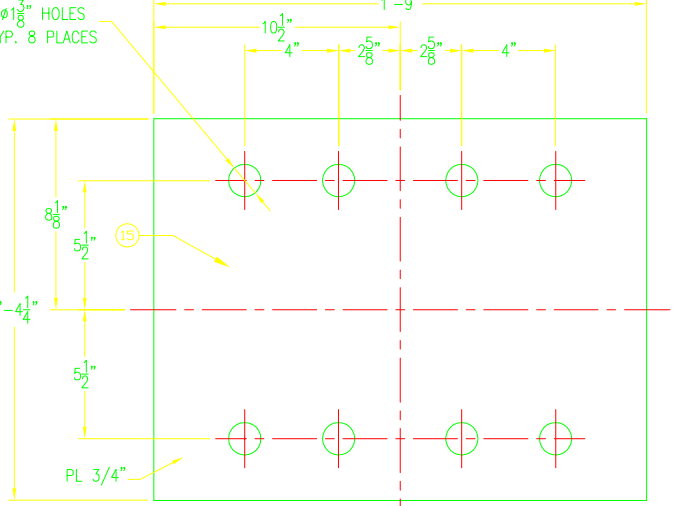
FILE NAME: \\media\1\end\20\_MARNE DIVISION\REG HOME\DOE Transfer Cars\3566-S-302.dwg LAYOUT NAME: 3566-S-302 - Layout1 PLOTTED: Friday, June 23, 2017 - 12:40pm USER: Greg.Hove



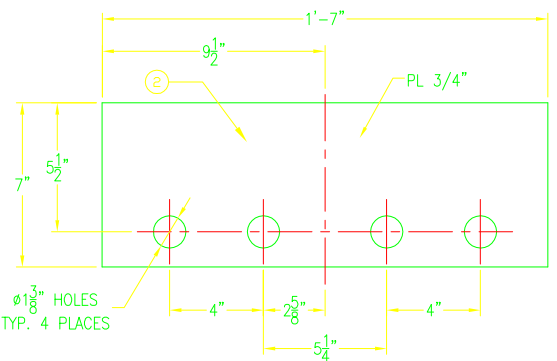
**SECTION C1**  
SCALE: 3"=1'-0"  
S-301



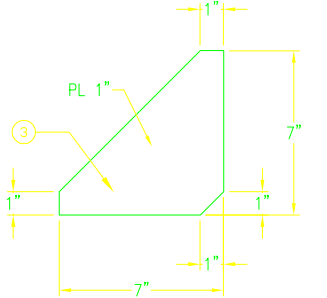
**END VIEW C3**  
SCALE: 3"=1'-0"  
S-302



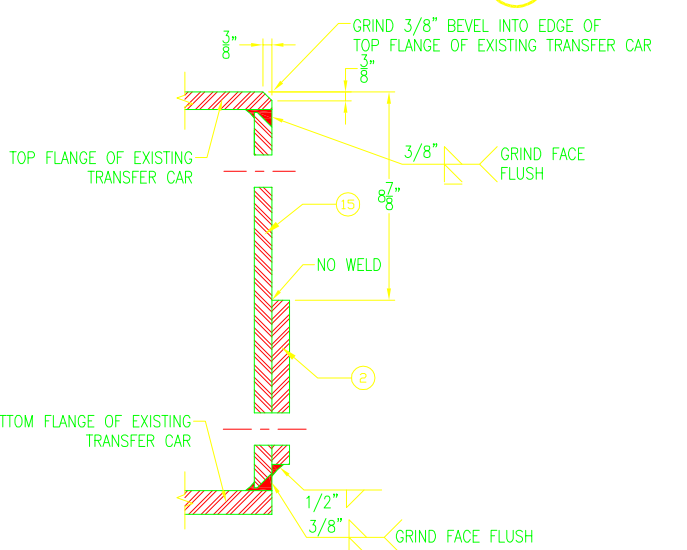
**DETAIL OF 3/4" PLATE - PART #15 B1**  
SCALE: 3"=1'-0"



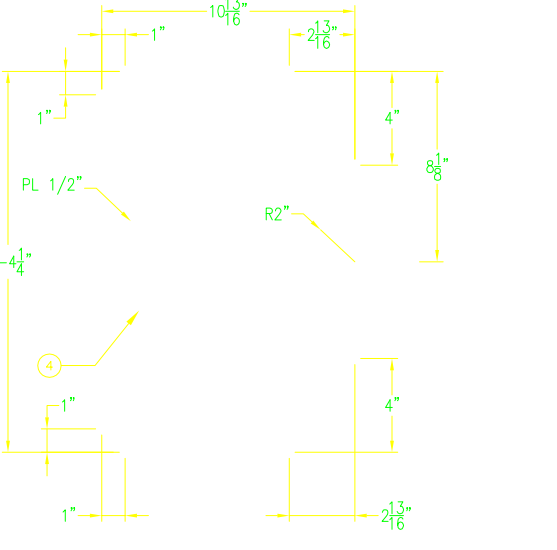
**DETAIL OF 3/4" PLATE - PART #2 B3**  
SCALE: 3"=1'-0"



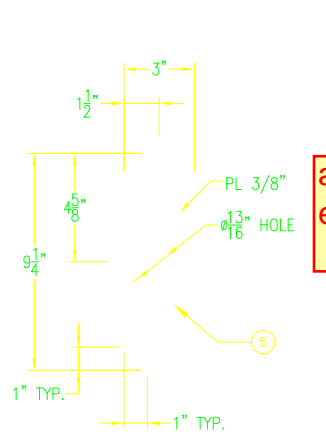
**DETAIL OF 1" GUSSET PLATE - PART #3 B4**  
SCALE: 3"=1'-0"



**SECTION A1**  
SCALE: 3"=1'-0"  
S-302



**DETAIL OF 1/2" PLATE - PART #4 A2**  
SCALE: 3"=1'-0"



**DETAIL OF 3/8" PLATE - PART #5 A3**  
SCALE: 3"=1'-0"

**DETAIL A4**  
SCALE: 1/2" = 1" (HALF)  
S-302

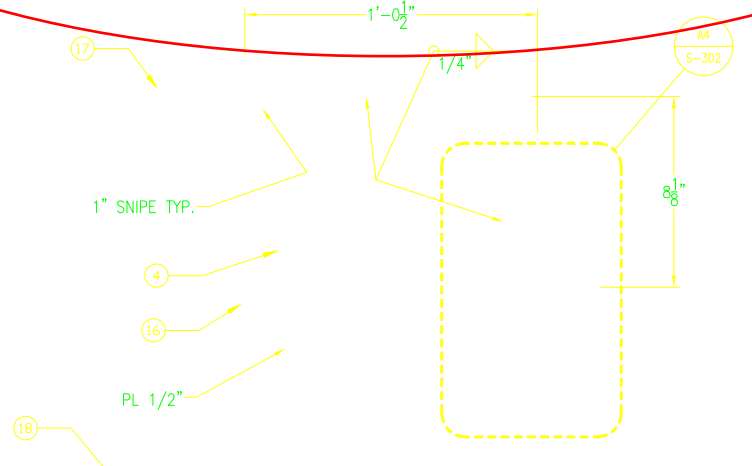
assuming items #4 thru 9 are excluded from SOW

**NOTES:**

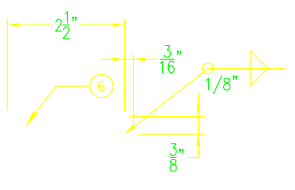
- 1.) TYPE 5, 316 STAINLESS STEEL PULLEY, 6" DIA. x 1 5/8" WIDE 3/4" DIA. SHAFT. 8,000 lbs. WORKING LOAD LIMIT WITH A PLAIN BRONZE BEARING. SUPPLIED BY MCMASTER-CARR www.mcmaster.com PART No. 3524127
- 2.) 18-8 STAINLESS STEEL CLEVIS PIN, 3/4" DIA. x 3 1/2" LONG 3 1/4" USABLE LENGTH. SUPPLIED BY MCMASTER-CARR www.mcmaster.com PART No. 92390A529
- 3.) 18-8 STAIN STEEL COTTER PIN, 1/8" DIA. x 1 1/2" LONG SUPPLIED BY MCMASTER-CARR www.mcmaster.com PART No. 98401A485

Or approved equal

**excluded**



**SECTION B5**  
SCALE: 3"=1'-0"  
S-302



No. REQUIRED IN THIS LIST IS PER TRANSFER CAR.

PART No.	No. REQ	LIST OF MATERIALS	REMARKS
18	1	9'-6" x 1'-6" x 1" PL	AH36
17	1	9'-6" x 2'-0" x 3/4" PL	AH36
16	1	9'-4 1/2" x 1'-4 1/4" x 1/2" PL	AH36
15	1	1'-9" x 1'-4 1/4" x 3/4"	AH36
14	8	1'-4 1/4" x 10 1/4" x 1/2" PL	AH36
13	2	1'-4 1/4" x 10 1/4" x 1" PL	AH36
9	1	1/8" DIA. COTTER PIN SEE NOTE 3	
8	1	S.S. CLEVIS PIN SEE NOTE 2	
7	1	STAINLESS STEEL PULLEY SEE NOTE 1	
6	2	2 1/2" x 1" x 3/8" PL	AH36
5	2	9 1/4" x 3" x 3/8" PL	AH36
4	1	1'-4 1/4" x 10 13/16" x 1/2" PL	AH36
3	4	7" x 7" x 1" GUSSET PL	AH36
2	1	1'-7" x 7" x 3/4" PL	AH36

**HEGER DRY DOCK, Inc.**  
DRY DOCK ENGINEERS  
DESIGN, INSPECTION AND CERTIFICATION  
531 CONCORD STREET  
HOLLISTON, MA 01746  
(508) 429-1800

DES. MAP. DRW. JJB. CHK. REH.  
CHIEF ENG. R. HEGER  
DATE: 9/21/2012

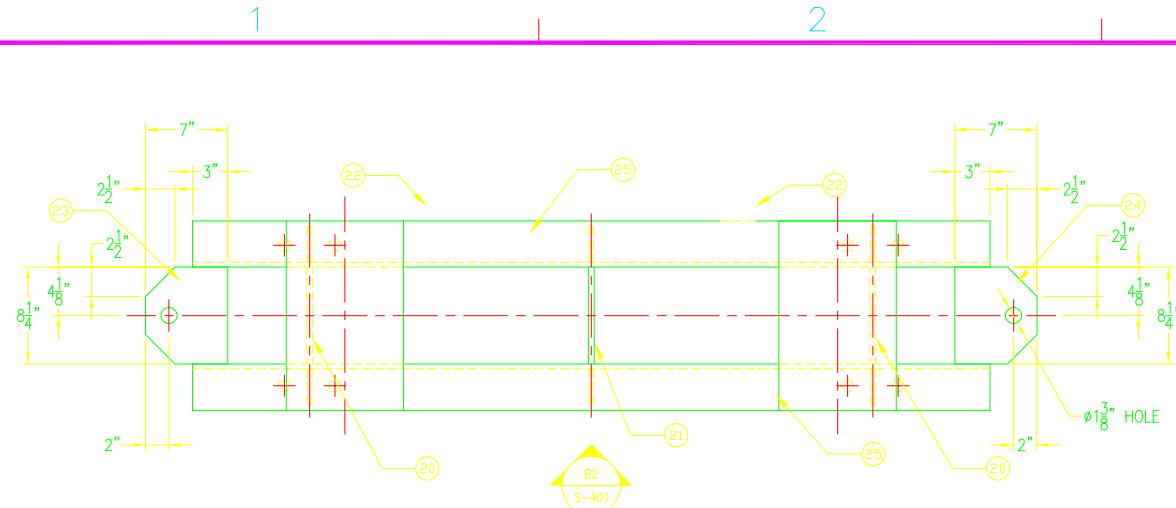
**ALASKA SHIP & DRYDOCK, LLC.**  
KETCHIKAN, ALASKA

TRANSFER CARS WITH PULL BLOCKS  
NEW TRANSFER CAR

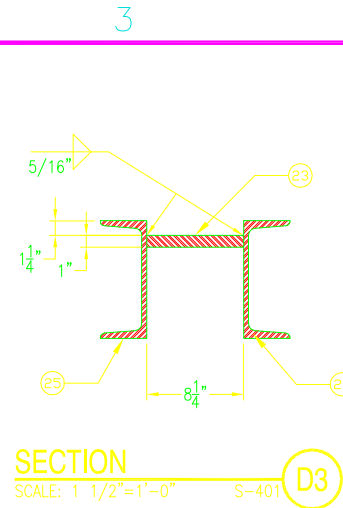
SCALE: AS NOTED  
PROJECT NO.: 3556-D  
CONSTR. CONTR. NO.

SHEET 8 OF 10  
**S-302**

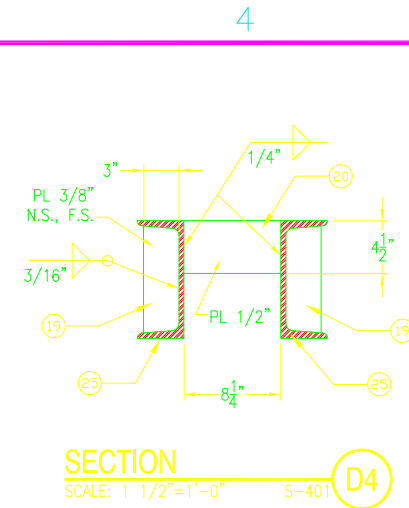
FILE NAME: \\media\1\user\1\user\2017\35660-S-401.dwg LAYOUT NAME: 35660-S-401 - Layout1 PLOTTED: Friday, June 23, 2017 12:49pm USER: Greg.Horne



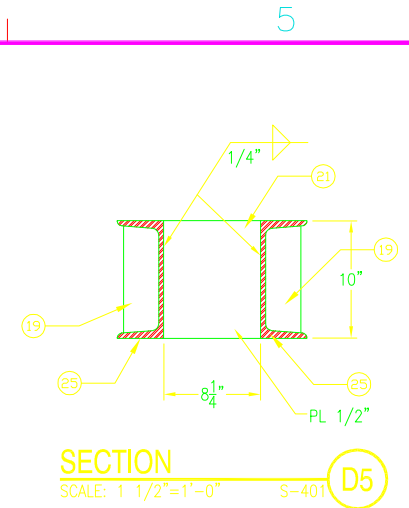
**PLAN VIEW OF TRUCK ASSEMBLY**  
SCALE: 1 1/2"=1'-0" S-401 C2



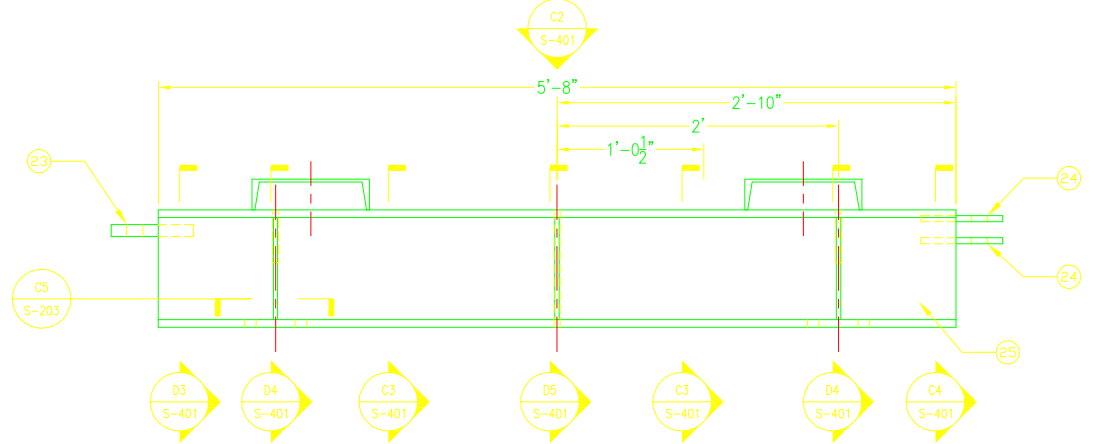
**SECTION**  
SCALE: 1 1/2"=1'-0" S-401 D3



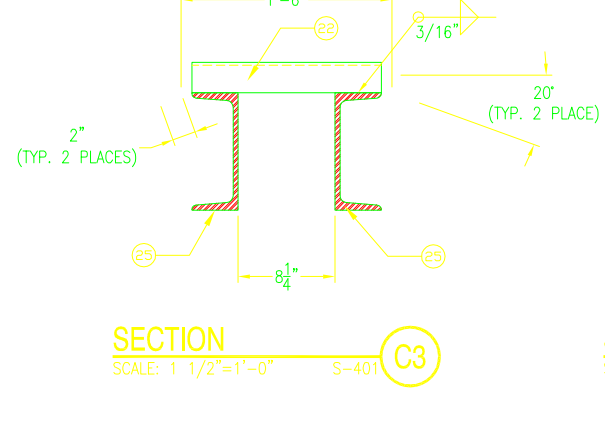
**SECTION**  
SCALE: 1 1/2"=1'-0" S-401 D4



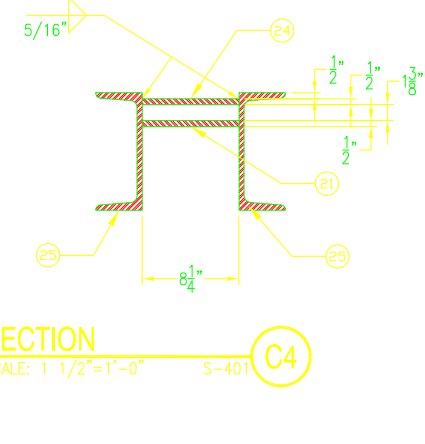
**SECTION**  
SCALE: 1 1/2"=1'-0" S-401 D5



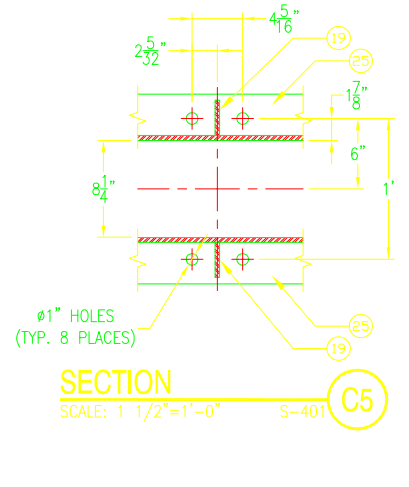
**ELEVATION OF TRUCK ASSEMBLY**  
SCALE: 1 1/2"=1'-0" S-201, S-301, S-401 B2



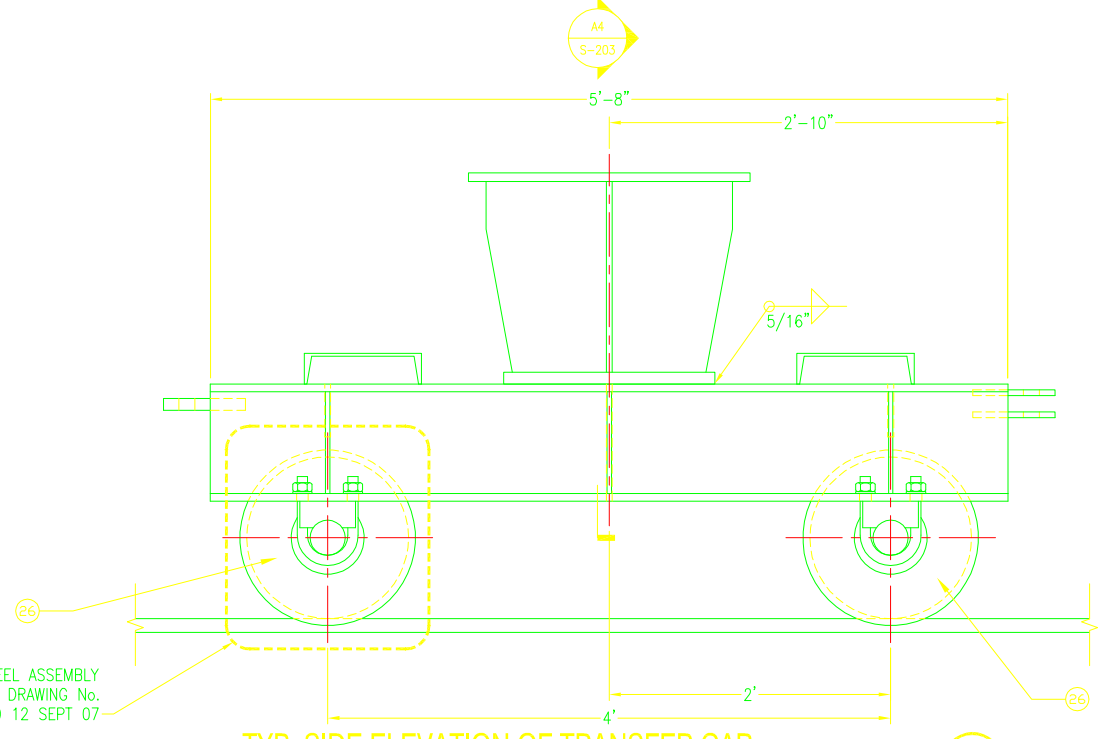
**SECTION**  
SCALE: 1 1/2"=1'-0" S-401 C3



**SECTION**  
SCALE: 1 1/2"=1'-0" S-401 C4

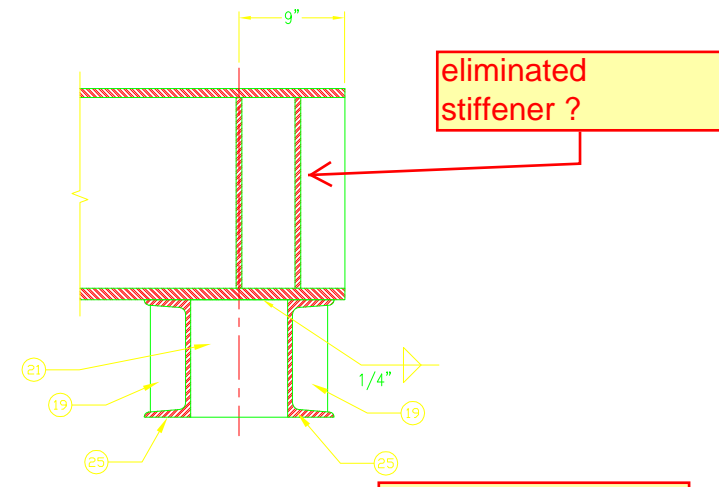


**SECTION**  
SCALE: 1 1/2"=1'-0" S-401 C5



**TYP. SIDE ELEVATION OF TRANSFER CAR**  
SCALE: 1 1/2"=1'-0" A3

350/380 FLAT TREAD WHEEL ASSEMBLY  
AS PER ROLLS-ROYCE DRAWING No.  
N\*NMA100452-141 REV-1 DATED 12 SEPT 07



**SECTION**  
SCALE: 1 1/2"=1'-0" S-203 A4

**Exclude #26 wheels**

**Verify Item #22 channel size and lengths for Bilge and Keel carts, suggest C10x20#**

No. REQUIRED IN THIS LIST IS PER SIDE BLOCK TRANSFER CAR.

PART No.	No. REQ	LIST OF MATERIALS	REMARKS
26	2	350/380 FLAT TREAD WHEEL ASSEMBLY	
25	2	MC10 x 28.5 x 5'-8" LONG	AH36
24	2	7" x 8 1/4" x 1/2" TOW EYE PLATE	AH36
23	1	7" x 8 1/4" x 1" TOW EYE PLATE	AH36
22	2	C5x3 APPROX. 1'-10 3/4" LONG	A36
21	1	10" x 8 1/4" x 1/2" PL	AH36
20	2	4 1/2" x 8 1/4" x 1/2" PL	AH36
19	6	3" x 3/8" STIFFENER PL	AH36

DATE	APPR.
DATE	CHK.
DATE	DES.

**HEGER**  
DRY DOCK, Inc.  
DRY DOCK ENGINEERS  
DESIGN, INSPECTION AND CERTIFICATION  
531 CONCORD STREET  
HOLLISTON, MA 01746  
(508) 429-1800

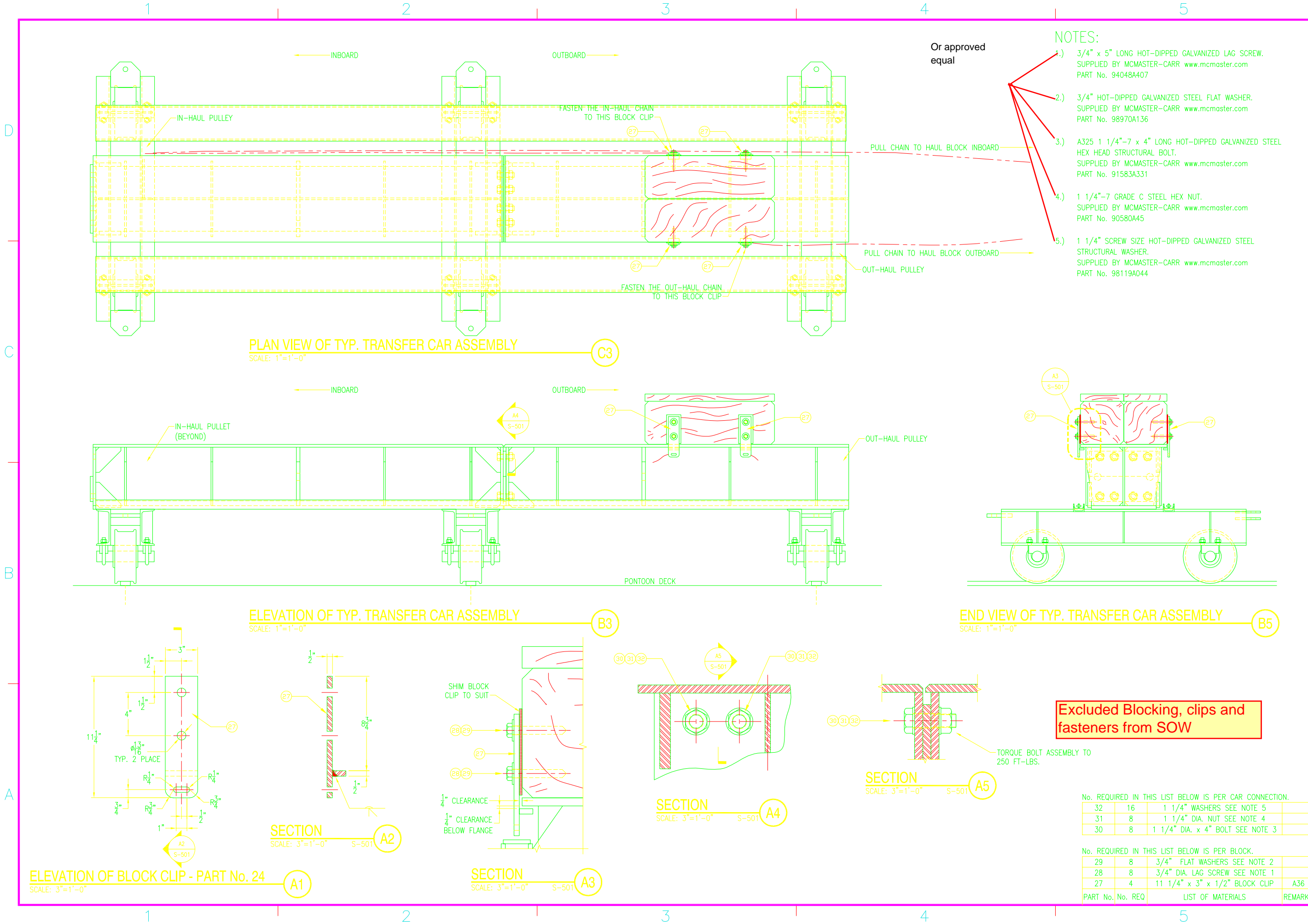
DES. MAP. DRW. JJB. CHK. REH.  
CHIEF. ENG. R. HEGER  
DATE: 9/21/2012

ALASKA SHIP & DRYDOCK, LLC. KETCHIKAN, ALASKA	PROJECT TITLE:	TRANSFER CARS WITH PULL BLOCKS
	DRAWING TITLE:	NEW TRANSFER CAR TRUCK ASSEMBLY DETAILS

SCALE: AS NOTED  
PROJECT NO.: 3556-D  
CONSTR. CONTR. NO.

SHEET 9 OF 10  
**S-401**

FILE NAME: \\server1\prod\20. MARNE DIVISION\REG HOME\DDC Transfer Cars\Revled Cars - 2017\35565-S-501.dwg LAYOUT NAME: 35565-S-501 - Layout1 PLOTTED: Friday, June 23, 2017 - 12:41pm USER: Greg.Hove



- NOTES:**
- 1.) 3/4" x 5" LONG HOT-DIPPED GALVANIZED LAG SCREW. SUPPLIED BY MCMASTER-CARR www.mcmaster.com PART No. 94048A407
  - 2.) 3/4" HOT-DIPPED GALVANIZED STEEL FLAT WASHER. SUPPLIED BY MCMASTER-CARR www.mcmaster.com PART No. 98970A136
  - 3.) A325 1 1/4"-7 x 4" LONG HOT-DIPPED GALVANIZED STEEL HEX HEAD STRUCTURAL BOLT. SUPPLIED BY MCMASTER-CARR www.mcmaster.com PART No. 91583A331
  - 4.) 1 1/4"-7 GRADE C STEEL HEX NUT. SUPPLIED BY MCMASTER-CARR www.mcmaster.com PART No. 90580A45
  - 5.) 1 1/4" SCREW SIZE HOT-DIPPED GALVANIZED STEEL STRUCTURAL WASHER. SUPPLIED BY MCMASTER-CARR www.mcmaster.com PART No. 98119A044

**Excluded Blocking, clips and fasteners from SOW**

No. REQUIRED IN THIS LIST BELOW IS PER CAR CONNECTION.

32	16	1 1/4" WASHERS SEE NOTE 5
31	8	1 1/4" DIA. NUT SEE NOTE 4
30	8	1 1/4" DIA. x 4" BOLT SEE NOTE 3

No. REQUIRED IN THIS LIST BELOW IS PER BLOCK.

29	8	3/4" FLAT WASHERS SEE NOTE 2
28	8	3/4" DIA. LAG SCREW SEE NOTE 1
27	4	11 1/4" x 3" x 1/2" BLOCK CLIP A36

PART No. No. REQ LIST OF MATERIALS REMARKS

APPR.	DATE
CHK.	DATE
DES.	DATE
DRW.	DESCRIPTION

**HEGER DRY DOCK, Inc.**  
DRY DOCK ENGINEERS  
DESIGN, INSPECTION AND CERTIFICATION  
531 CONCORD STREET  
HOLLISTON, MA 01746  
(508) 429-1800

DES. MAP: R. HEGER  
CHIEF ENG. R. HEGER  
DATE: 9/21/2012

**ALASKA SHIP & DRYDOCK, LLC.**  
KETCHIKAN, ALASKA

TRANSFER CARS WITH PULL BLOCKS  
MISCELLANEOUS DETAILS

SCALE: AS NOTED  
PROJECT NO.: 3556-D  
CONSTR. CONTR. NO.

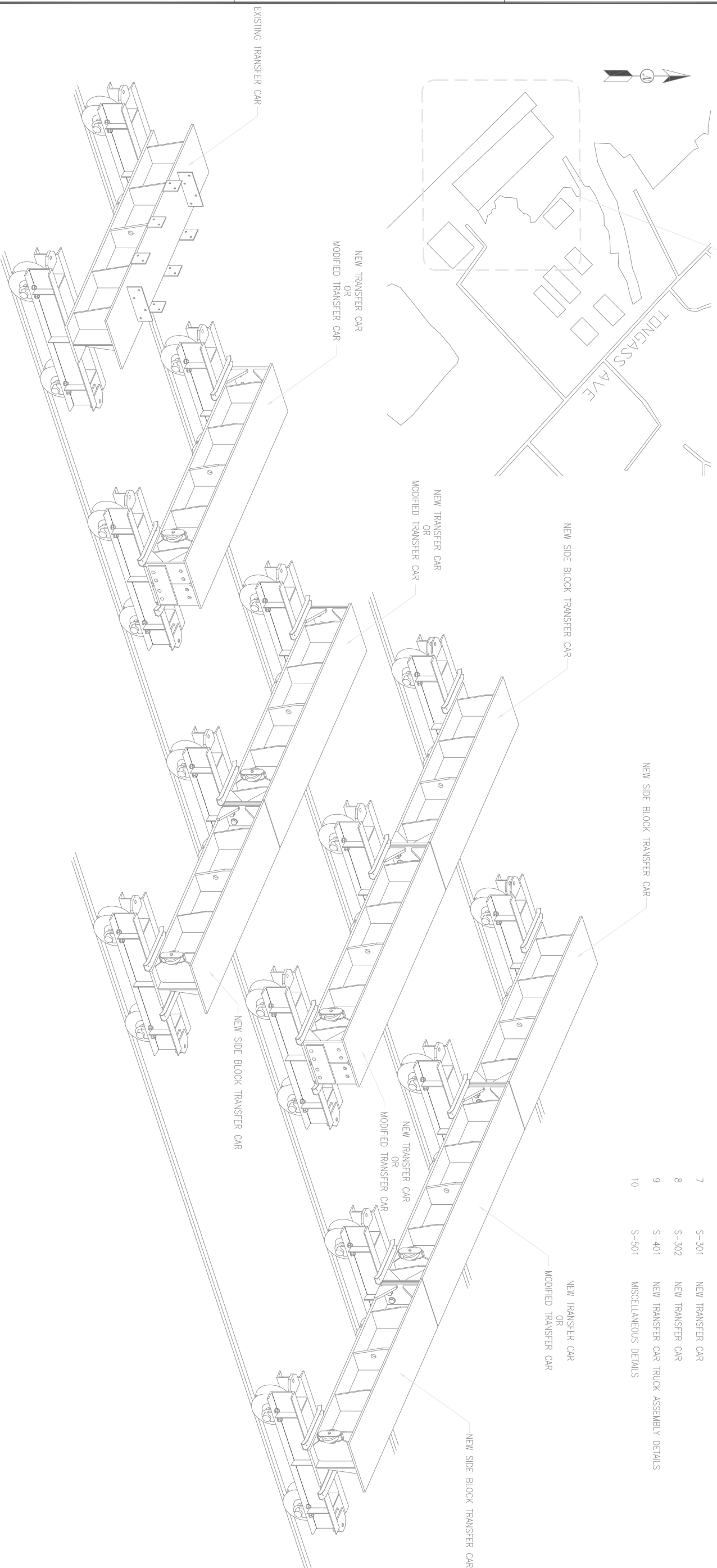
SHEET 10 OF 10  
**S-501**

# TRANSFER CARS WITH PULL BLOCKS

## ALASKA SHIP & DRYDOCK, LLC.

### KETCHIKAN, ALASKA

PROJECT LOCATION  
ALASKA SHIP & DRYDOCK, LLC.  
KETCHIKAN, ALASKA



DRAWING INDEX		DRAWING TITLE	
ITEM	NO.		
1	G-001	COVER SHEET AND DRAWING INDEX	
2	A-001	BLOCK LOADING DIAGRAM	
3	S-101	MODIFICATIONS TO EXISTING TRANSFER CAR	
4	S-102	MODIFICATIONS TO EXISTING TRANSFER CAR	
5	S-201	NEW SIDE BLOCK TRANSFER CAR	
6	S-202	NEW SIDE BLOCK TRANSFER CAR	
7	S-301	NEW TRANSFER CAR	
8	S-302	NEW TRANSFER CAR	
9	S-401	NEW TRANSFER CAR TRUCK ASSEMBLY DETAILS	
10	S-501	MISCELLANEOUS DETAILS	

SYM	DESCRIPTION	DATE	APP'R

**HEGER**  
DRY DOCK, Inc.  
DRY DOCK ENGINEERS  
DESIGN, INSPECTION AND CONSTRUCTION  
531 CONCORD STREET  
HOLLISTON, MA 01746  
(978) 428-1800

DWG MAP DWG JAH GKM RHH  
CHIEF ENG. R. HEGER  
DATE: 9/21/2012

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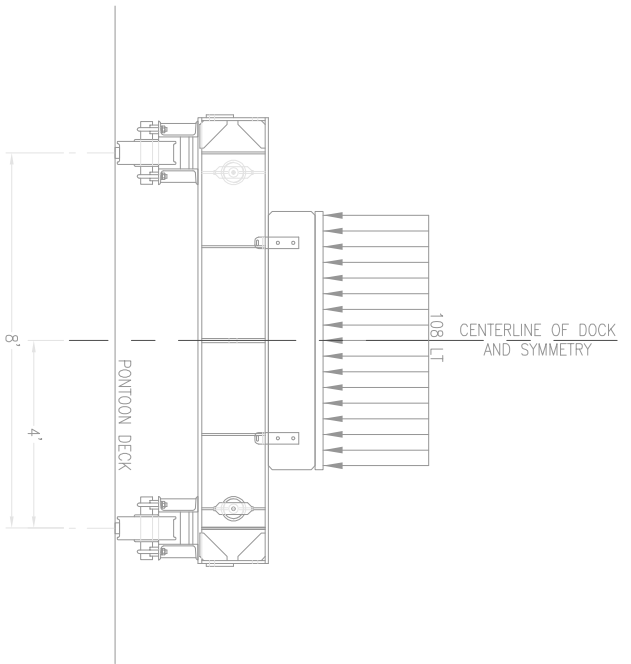
CLIENT NAME AND ADDRESS:  
**ALASKA SHIP & DRYDOCK, LLC.**  
KETCHIKAN, ALASKA

PROJECT TITLE:  
TRANSFER CARS WITH PULL BLOCKS

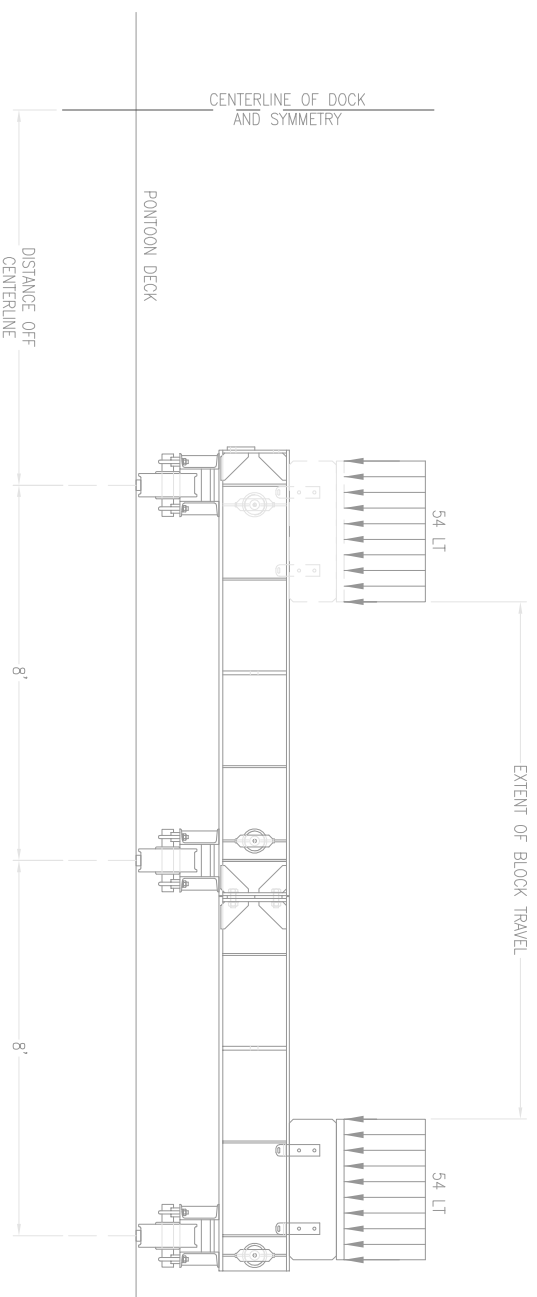
DRAWING TITLE:  
COVER SHEET AND DRAWING INDEX

SCALE: AS NOTED  
PROJECT NO.: 3556-0  
CONSTR. CONTR. NO.

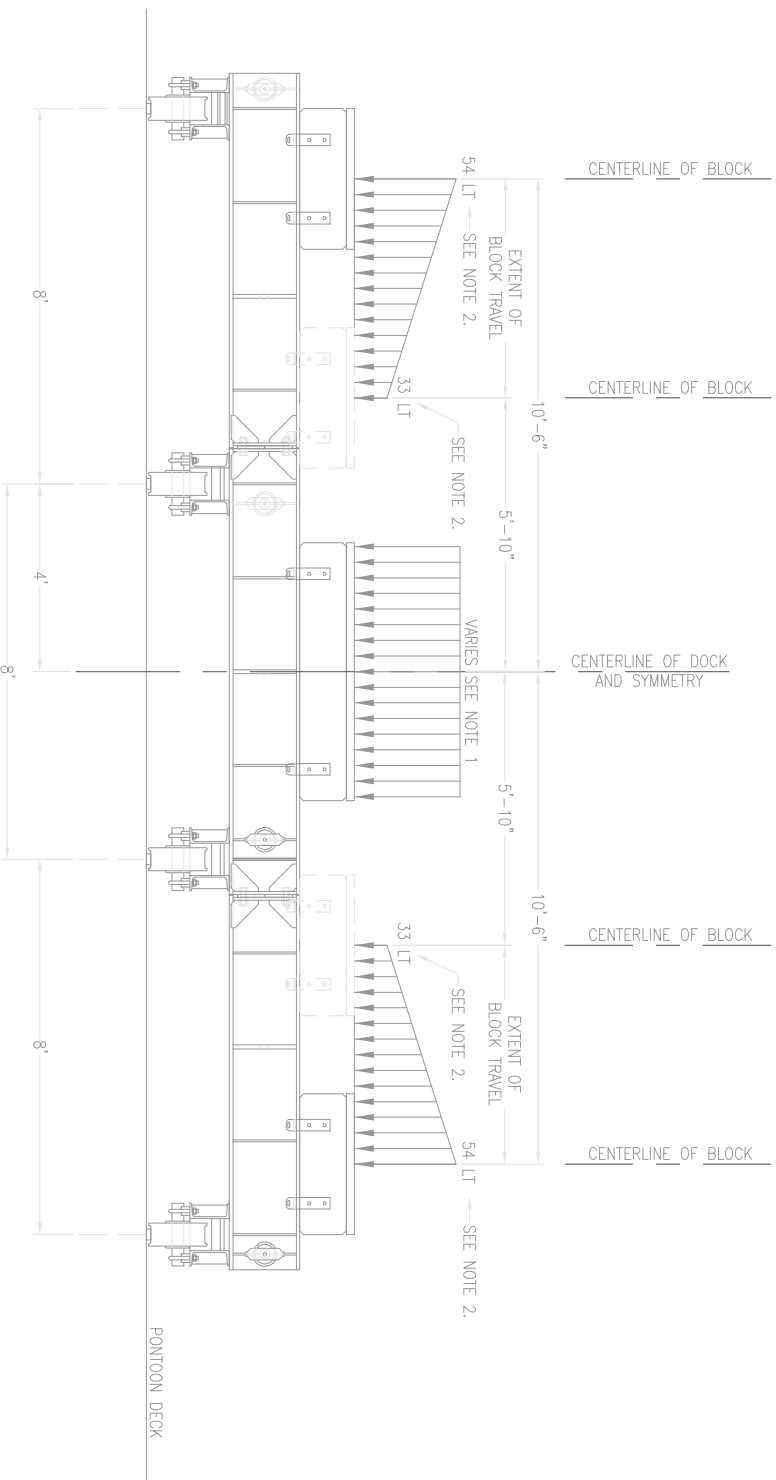
SHEET 1 OF 10  
G-001



C2



C5



A4

- NOTES:
- 1) COMBINATION OF BOTH SIDE BLOCK LOADS AND KEEL BLOCK LOAD SHOULD NOT EXCEED 108 LT OR RATED CAPACITY OF DOCK.
  - 2) ALLOWED SIDE BLOCK LOAD IS BASED ON CENTER OF SIDE BLOCK LOCATION.

SYN	DESCRIPTION	DATE	APPR

**HEGER**  
DRY DOCK, Inc.  
DRY DOCK ENGINEERS  
GENERAL INSPECTION AND CERTIFICATION  
531 CONCORD STREET  
HOLLISTON, MA 01746  
(978) 423-1800

DSS MAP<sup>SM</sup> DRW ALB GSK RHH  
CHIEF ENG. R. HEGER  
DATE: 9/21/2012

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CLIENT NAME AND ADDRESS:  
**ALASKA SHIP & DRYDOCK, LLC.**  
KETCHIKAN, ALASKA

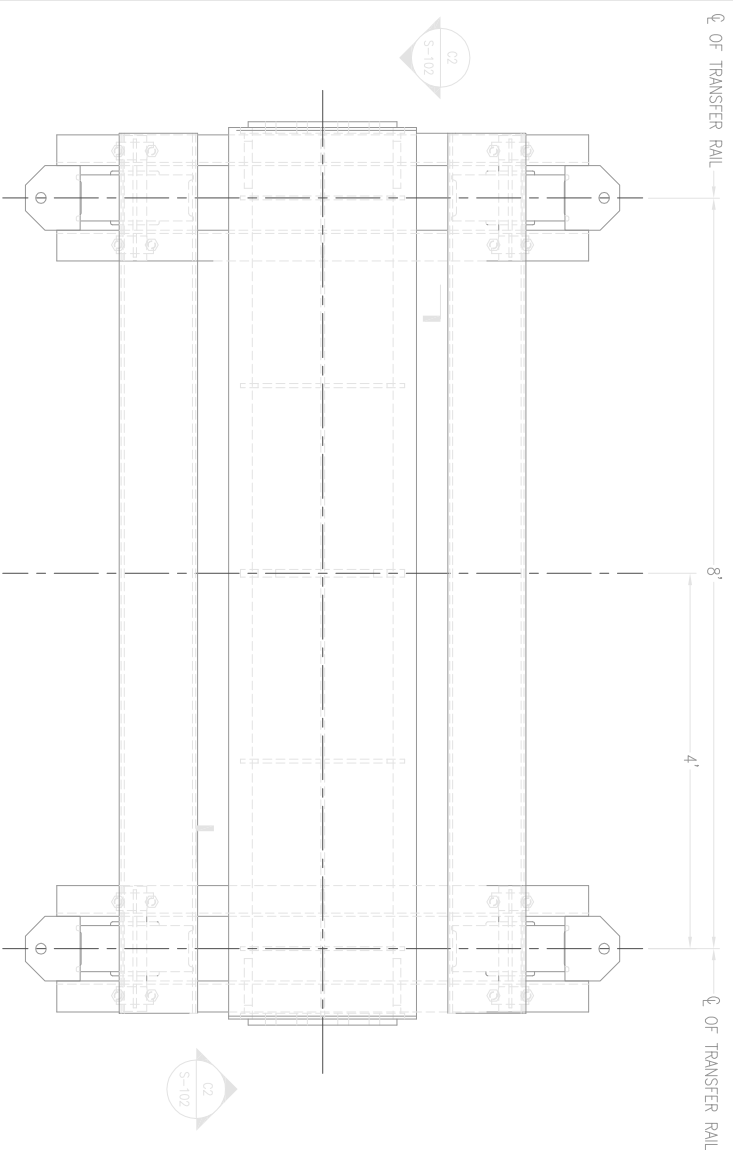
PROJECT TITLE:  
TRANSFER CARS WITH PULL BLOCKS

DRAWING TITLE:  
BLOCK LOADING DIAGRAM

SCALE: AS NOTED  
PROJECT NO.: 3556-0  
CONSTR. CONTR. NO.

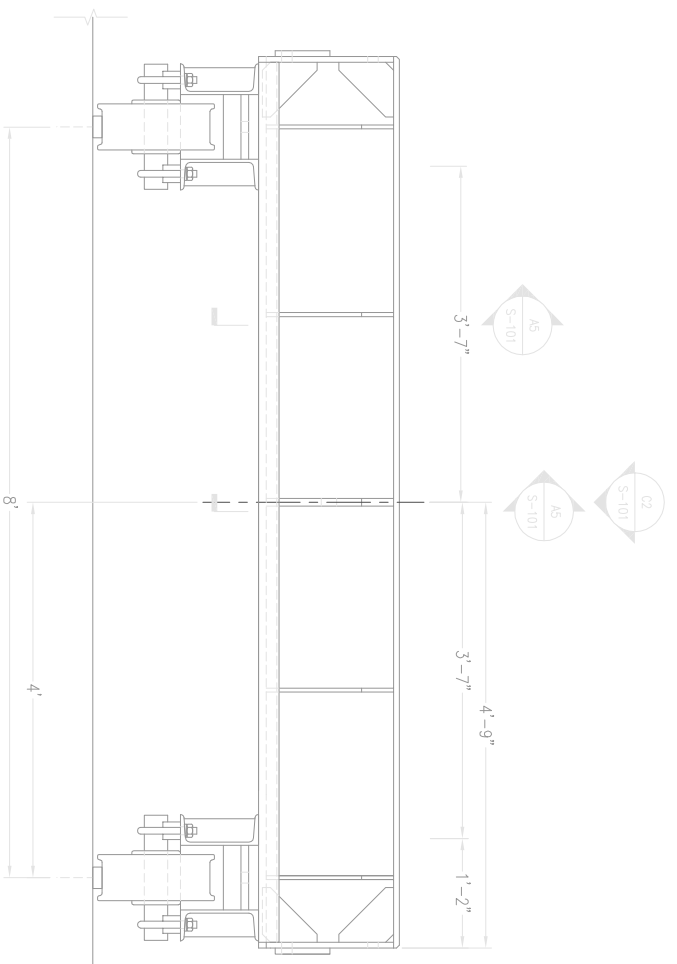
SHEET 2 OF 10  
A-001





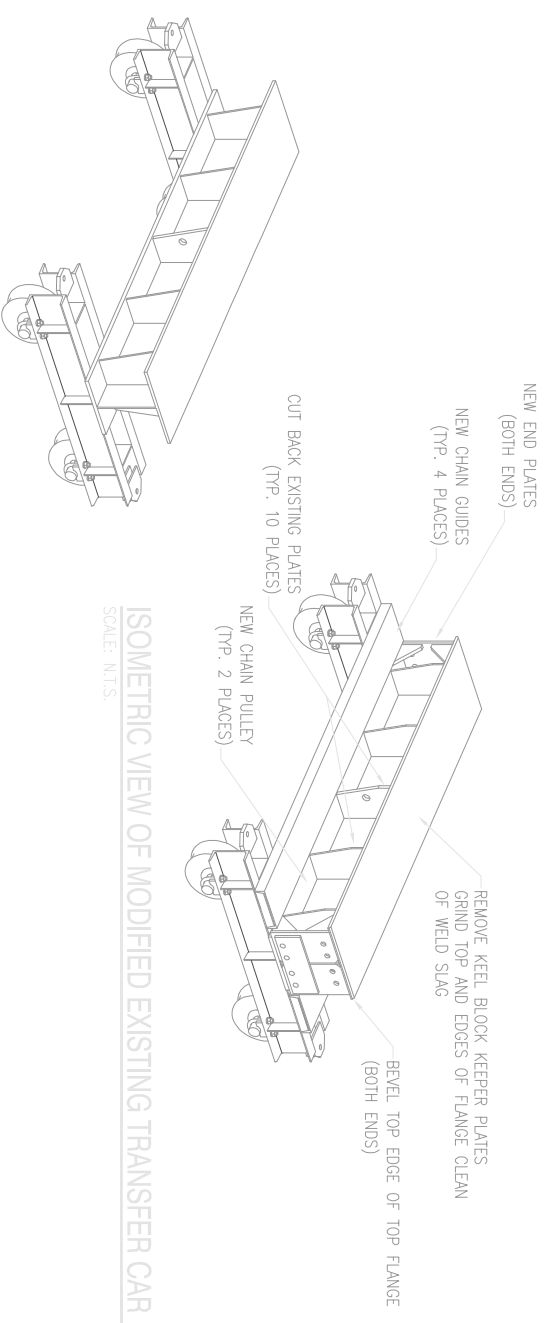
PLAN VIEW OF MODIFIED EXISTING TRANSFER CAR  
SCALE: 1"=1'-0"

S-101 C2



ELEVATION OF MODIFIED EXISTING TRANSFER CAR  
SCALE: 1"=1'-0"

A2

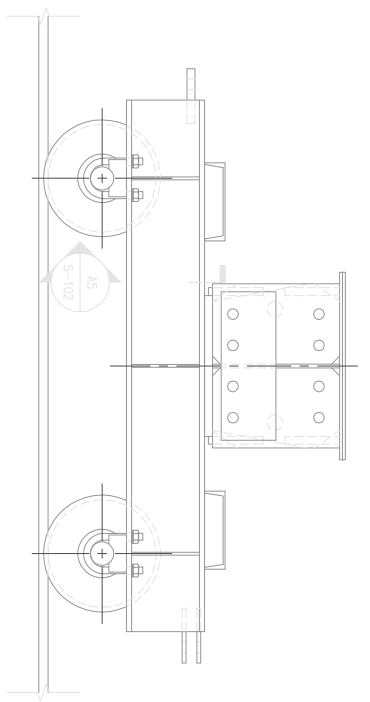


ISOMETRIC VIEW OF EXISTING TRANSFER CAR  
SCALE: N.T.S.

C4

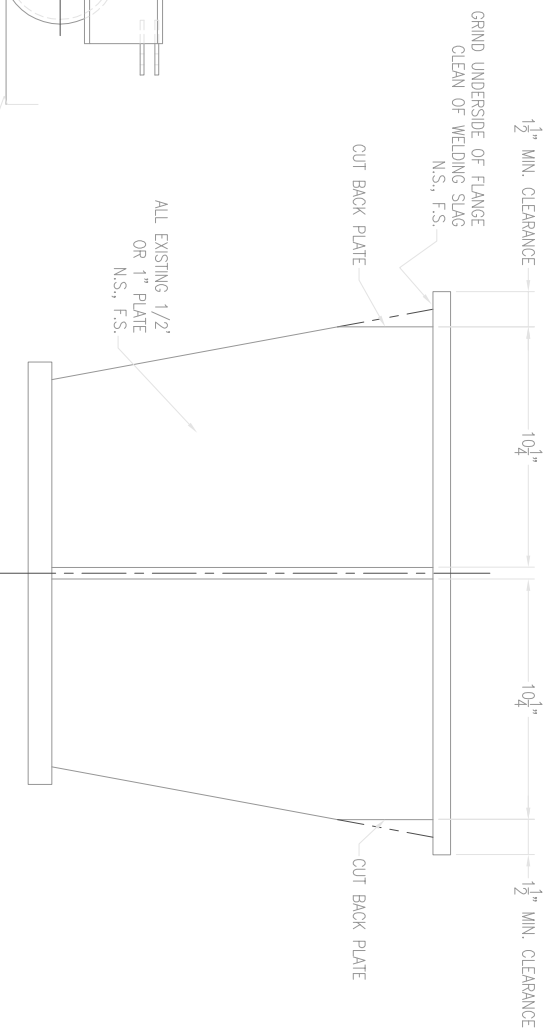
ISOMETRIC VIEW OF MODIFIED EXISTING TRANSFER CAR  
SCALE: N.T.S.

C5



RIGHT SIDE ELEVATION OF MODIFIED EXISTING TRANSFER CAR  
SCALE: 1"=1'-0"

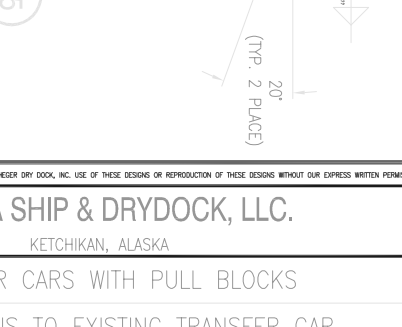
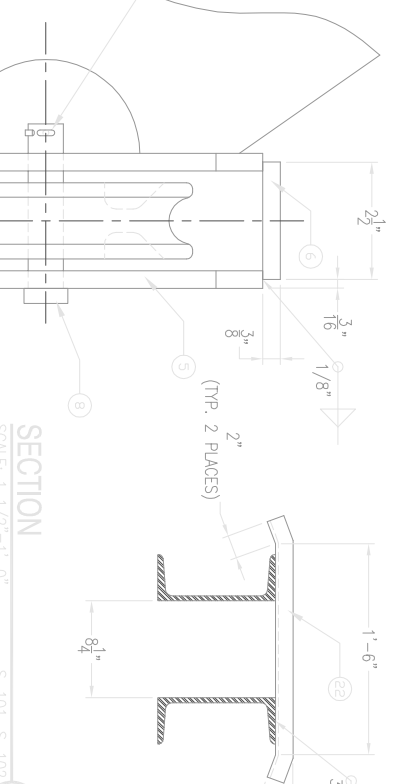
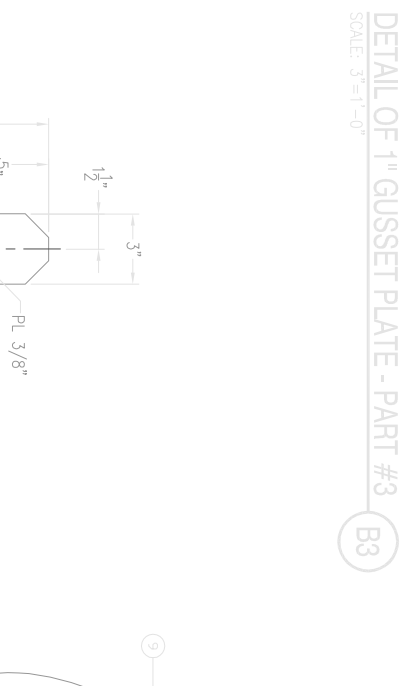
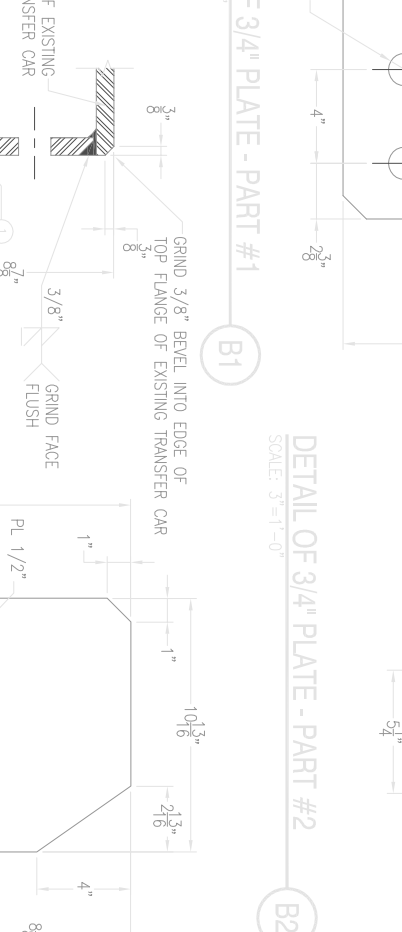
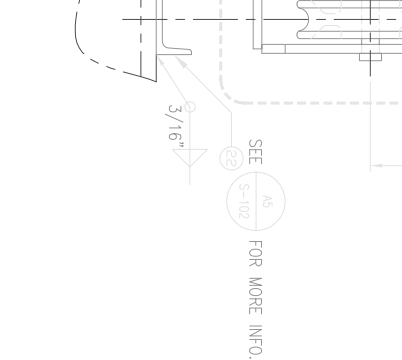
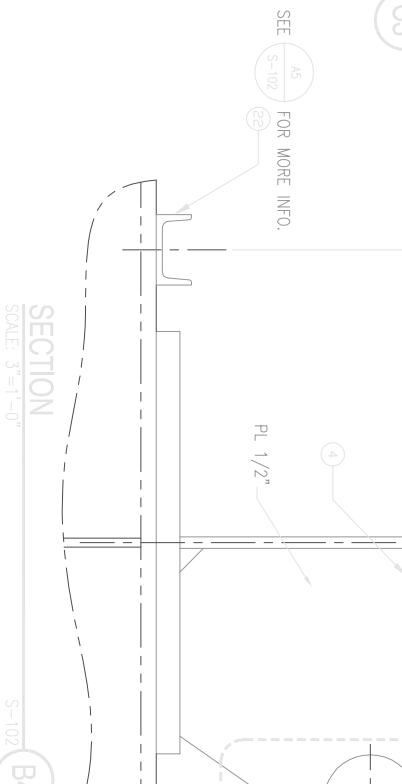
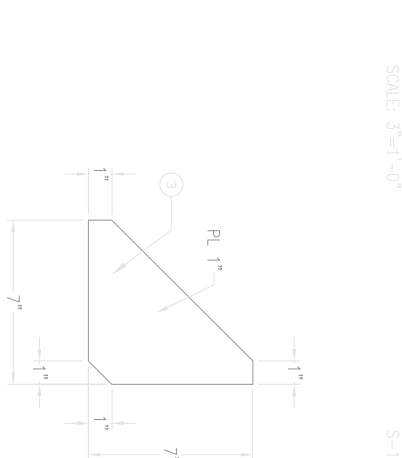
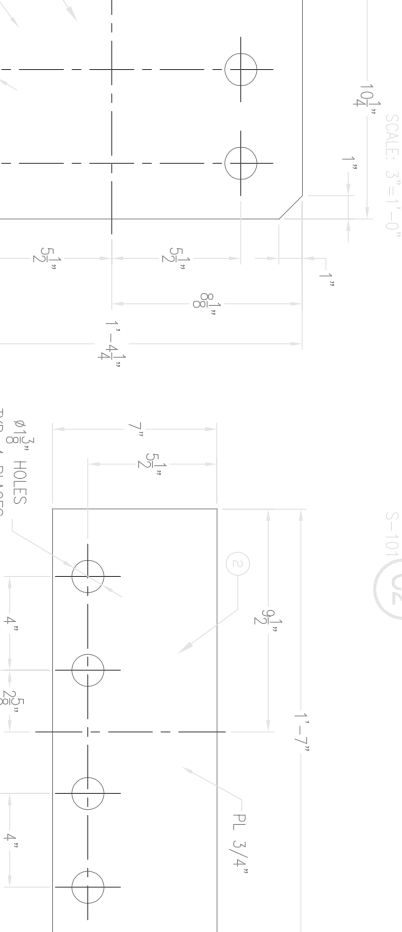
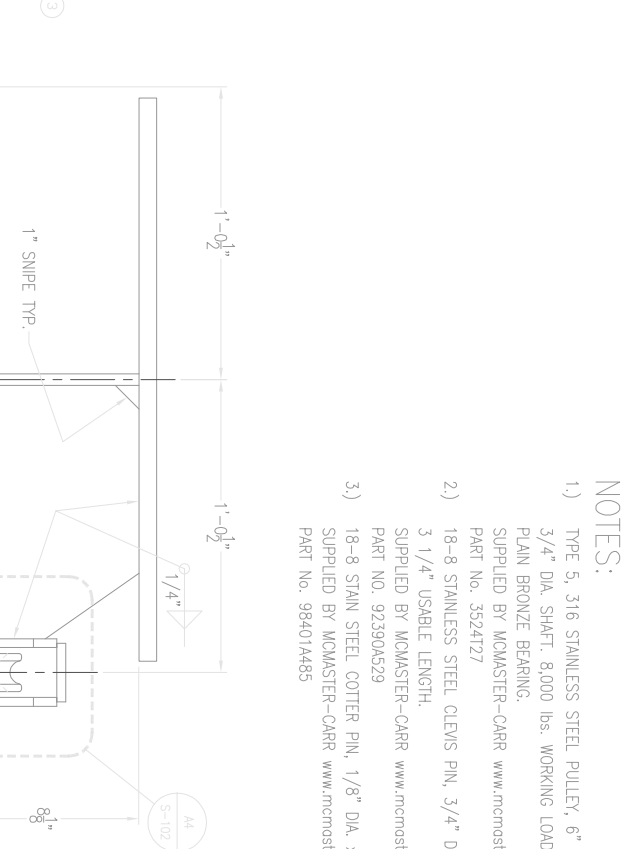
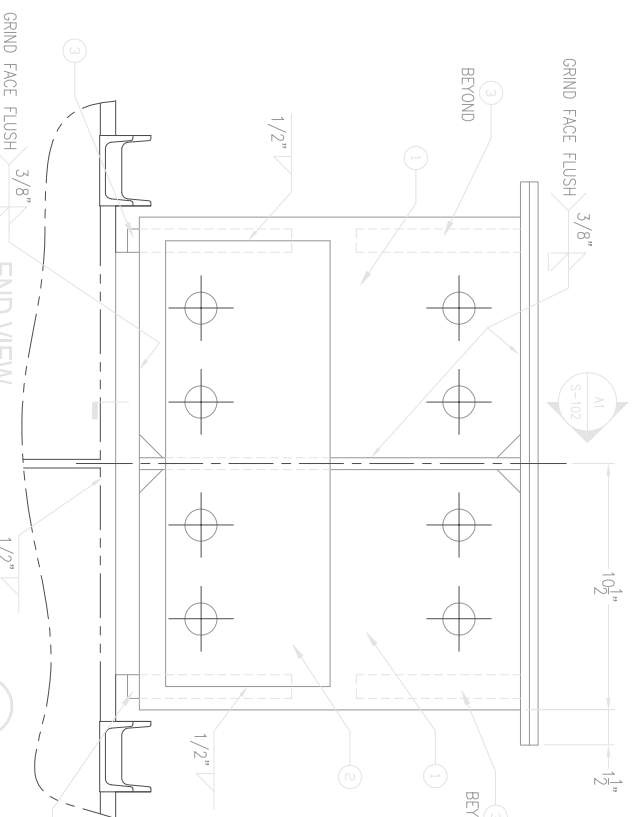
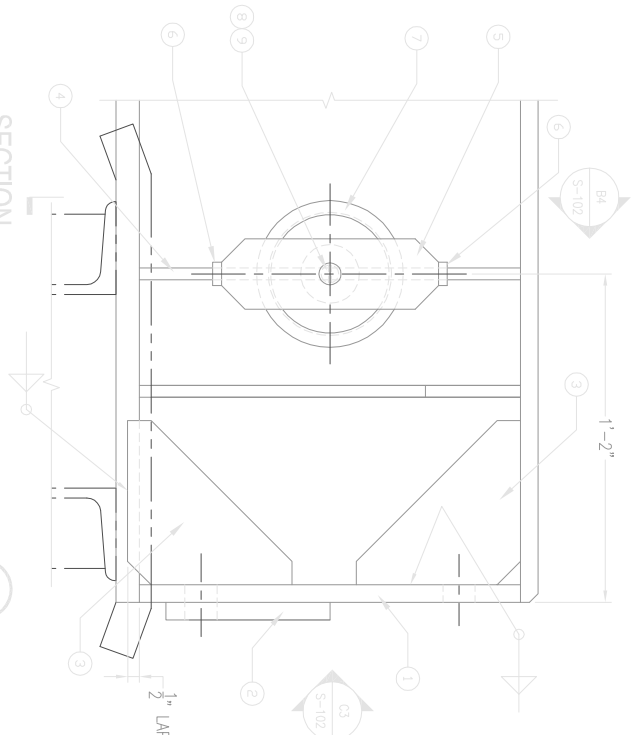
A4



SECTION  
SCALE: 3/4"=1'-0"

S-101 A5

SHEET 3 OF 10 S-101	THESE DESIGNS AND SPECIFICATIONS ARE NOW AND DO REMAIN THE PROPERTY OF HEGER DRY DOCK, INC. USE OF THESE DESIGNS OR REPRODUCTION OF THESE DESIGNS WITHOUT OUR EXPRESS WRITTEN PERMISSION IS PROHIBITED.	CLIENT NAME AND ADDRESS: <b>ALASKA SHIP &amp; DRYDOCK, LLC.</b> KETCHIKAN, ALASKA	PROJECT TITLE: TRANSFER CARS WITH PULL BLOCKS	DRAWING TITLE: MODIFICATIONS TO EXISTING TRANSFER CAR	DES. MAP: DRW: ALB GKM RHH CHIEF ENG: R. HEGER DATE: 9/21/2012	HEGER DRY DOCK, Inc. DRY DOCK ENGINEERS DESIGN, INSPECTION AND CONSTRUCTION 531 CONCORD STREET HOLLISTON, MA 01746 (978) 428-1800	SYM DESCRIPTION DATE APPR
	SCALE: AS NOTED PROJECT NO.: 3556-0 CONTR. CONTR. NO.						



- NOTES:**
- 1) TYPE 5, 316 STAINLESS STEEL PULLEY, 6" DIA. x 1 5/8" WIDE 3/4" DIA. SHAFT 8,000 lbs. WORKING LOAD LIMIT WITH A PLAIN BRONZE BEARING.  
SUPPLIED BY MCMMASTER-CARR [www.mcmaster.com](http://www.mcmaster.com)  
PART No. 3524127
  - 2) 18-8 STAINLESS STEEL CLEVIS PIN, 3/4" DIA. x 3 1/2" LONG 3 1/4" USABLE LENGTH.  
SUPPLIED BY MCMMASTER-CARR [www.mcmaster.com](http://www.mcmaster.com)  
PART No. 923904529
  - 3) 18-8 STAIN STEEL COTTER PIN, 1/8" DIA. x 1 1/2" LONG SUPPLIED BY MCMMASTER-CARR [www.mcmaster.com](http://www.mcmaster.com)  
PART No. 984014485

No. REQUIRED IN THIS LIST IS PER MODIFIED TRANSFER CAR.

22	4	CX3 APPROX. 1'-10 3/4" LONG	
9	2	1/8" DIA. COTTER PIN SEE NOTE 3	
8	2	S.S. CLEVIS PIN SEE NOTE 2	
7	2	STAINLESS STEEL PULLEY SEE NOTE 1	
6	4	2 1/2" x 1" x 3/8" PL	AH36
5	4	9 1/4" x 3" x 3/8" PL	AH36
4	2	1'-4 1/4" x 10 13/16" x 1/2" PL	AH36
3	8	7" x 7" x 1" GUSSET PL	AH36
2	4	1'-7" x 7" x 3/4" PL	AH36
1	2	1'-4 1/4" x 10 1/4" x 3/4" PL	AH36

LIST OF MATERIALS

PART NO.	No. REQ.	REMARKS

DES: MAP    DWG: ALB    CHK: REH  
 CHEF: ENG.    R. HEGGER  
 DATE: 9/21/2012

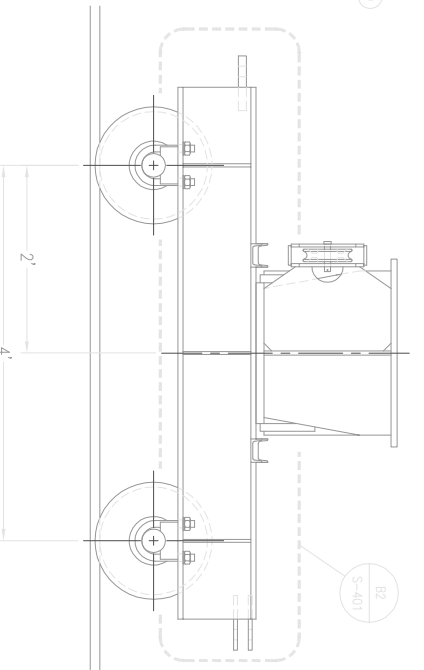
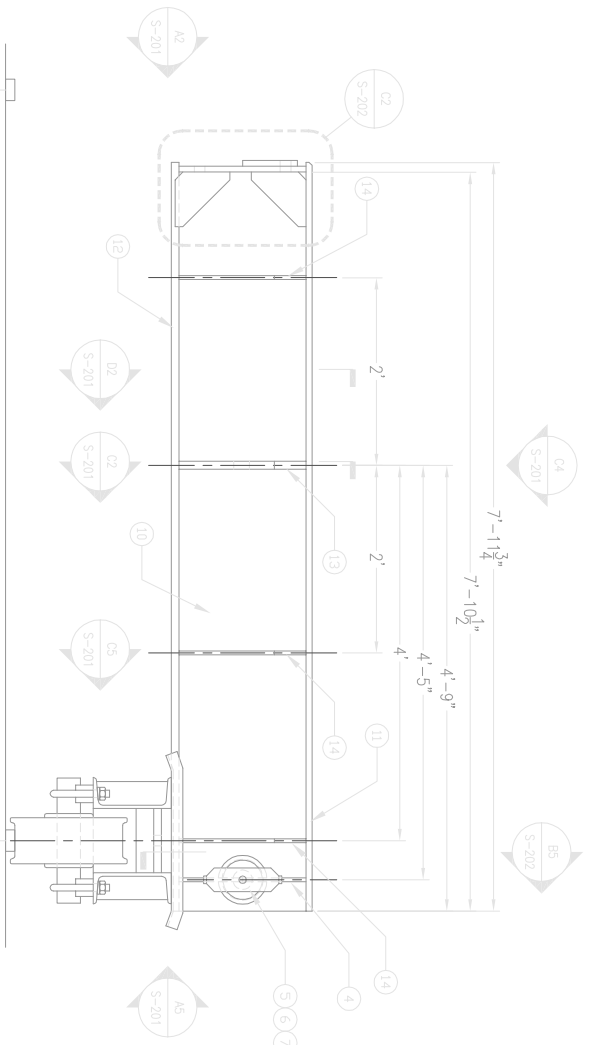
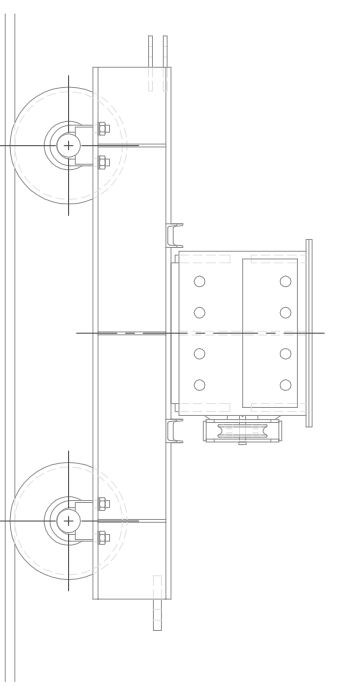
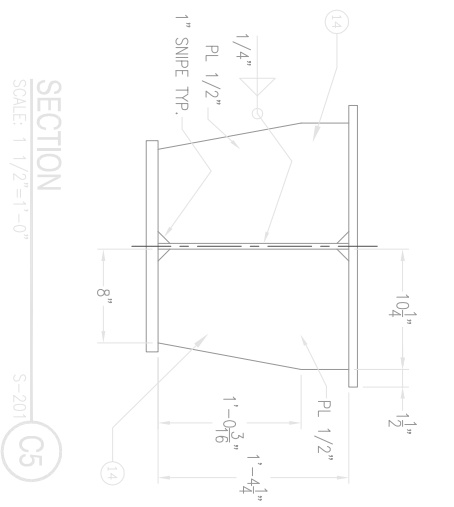
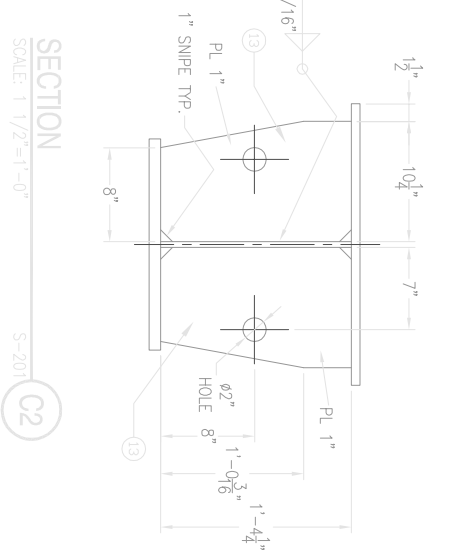
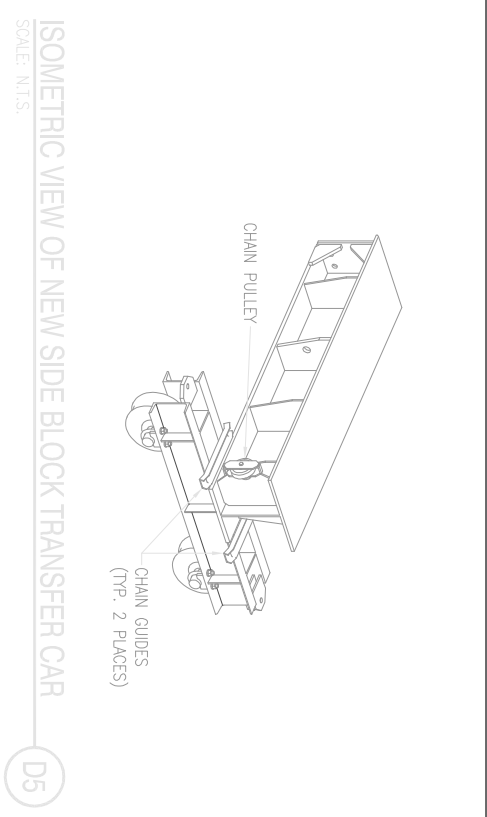
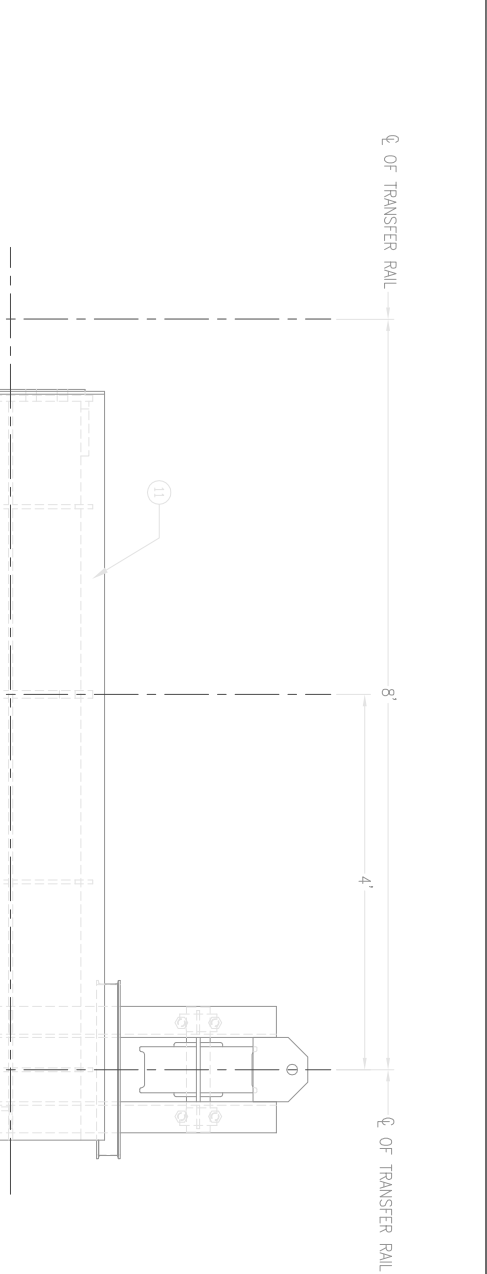
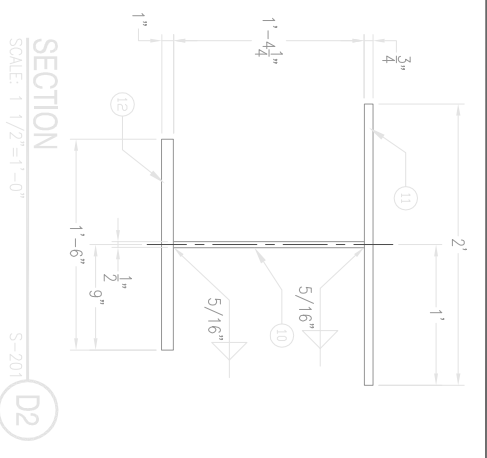
CLIENT NAME AND ADDRESS:  
**ALASKA SHIP & DRYDOCK, LLC.**  
 KETCHIKAN, ALASKA

PROJECT TITLE:  
 TRANSFER CARS WITH PULL BLOCKS

DRAWING TITLE:  
 MODIFICATIONS TO EXISTING TRANSFER CAR

DRY DOCK ENGINEERS  
 GENERAL INSPECTION AND CERTIFICATION  
 531 CONCORD STREET  
 HOLLISTON, MA 01746  
 (978) 425-1800

SYMBOL	DESCRIPTION	DATE	APPROVAL

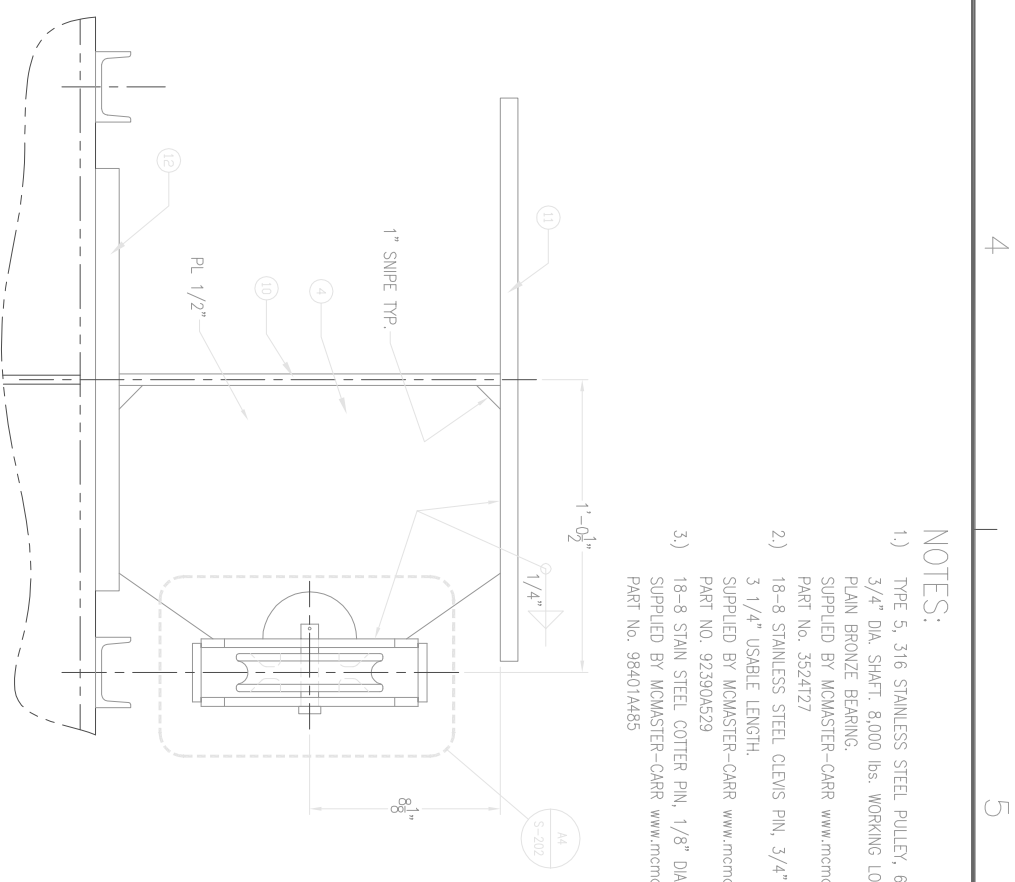
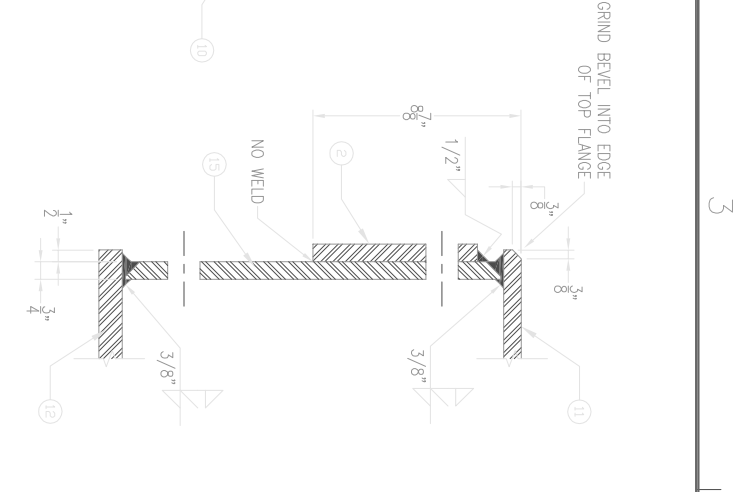
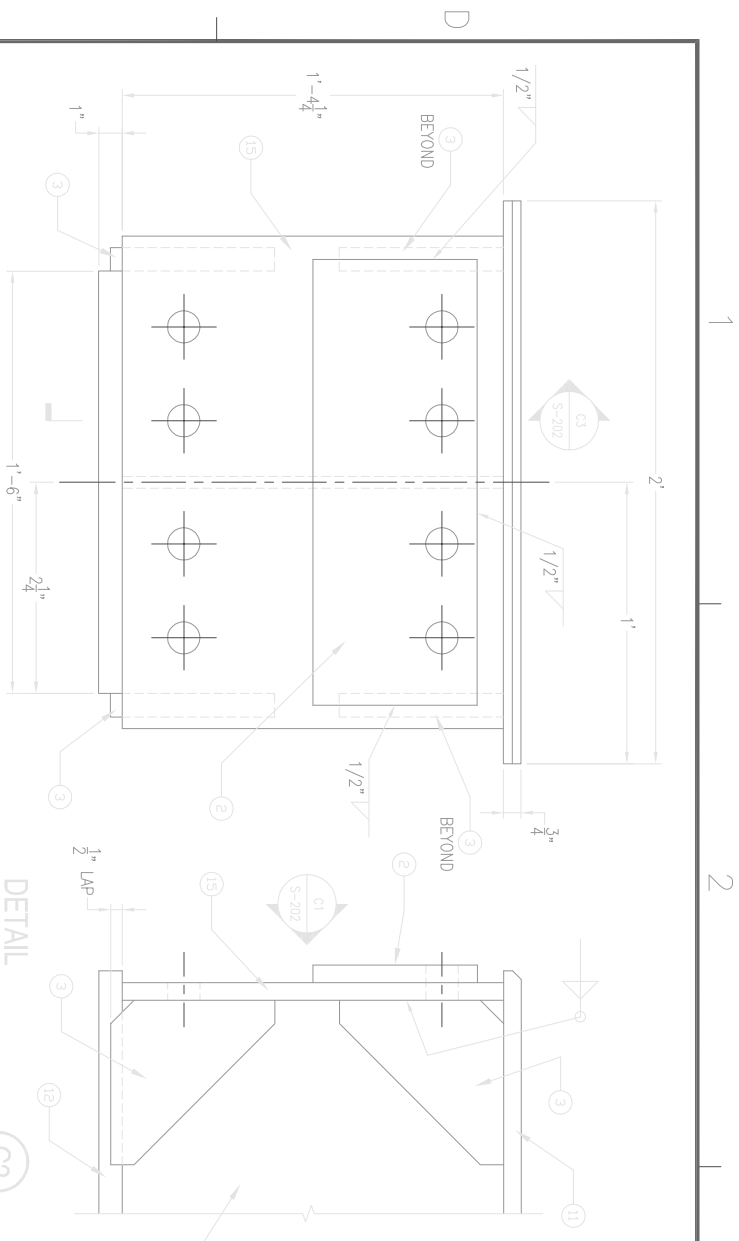


LEFT SIDE VIEW OF NEW SIDE BLOCK TRANSFER CAR  
SCALE: 1"=1'-0"

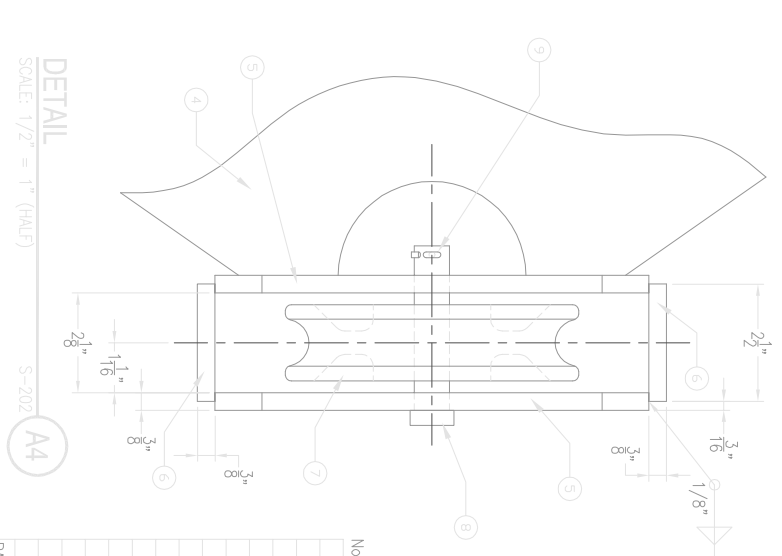
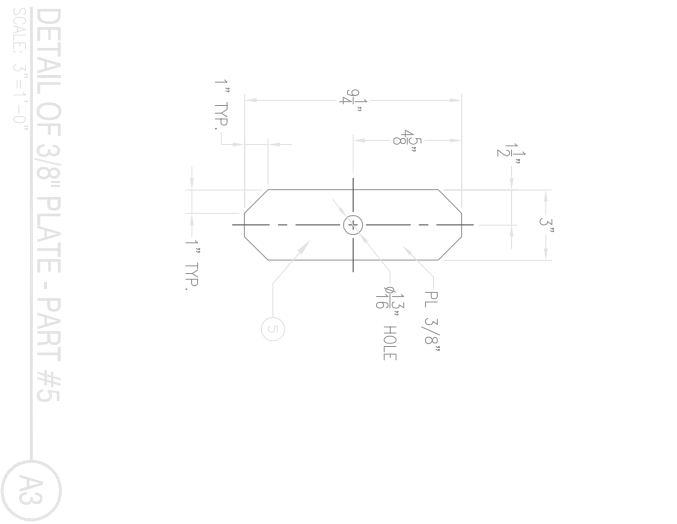
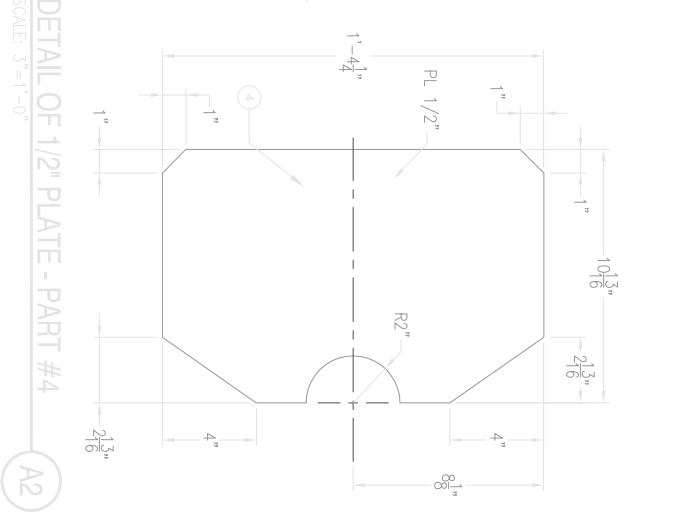
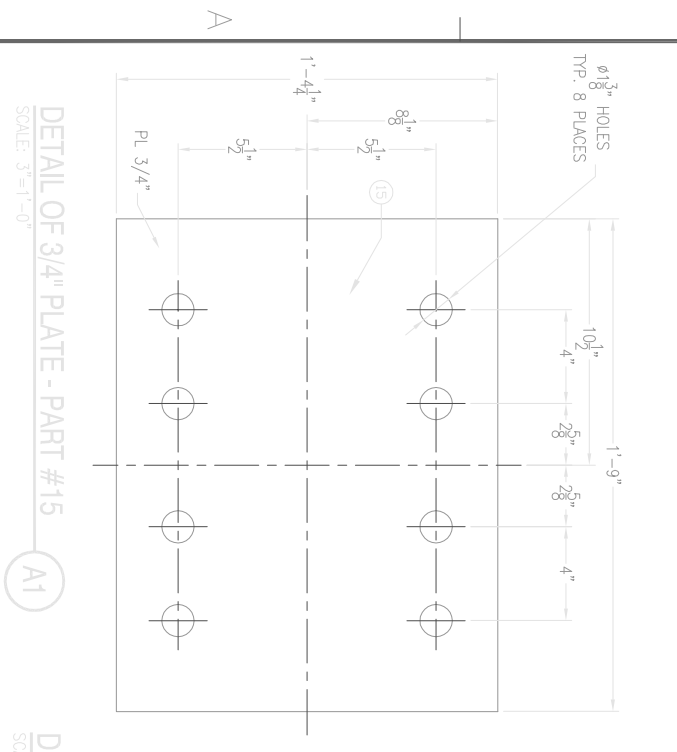
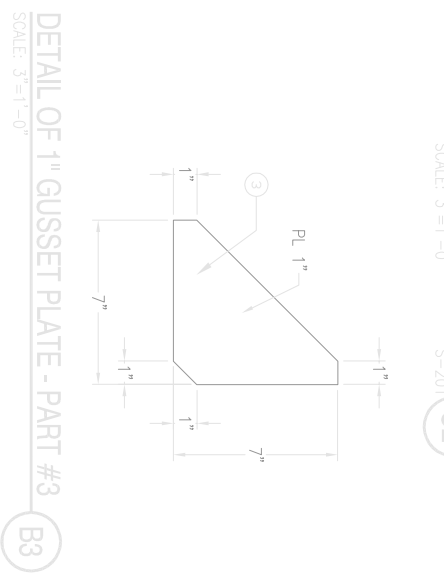
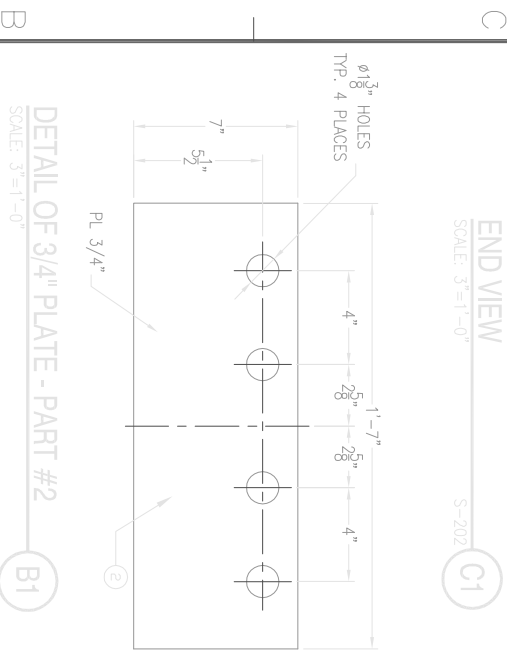
ELEVATION OF NEW SIDE BLOCK TRANSFER CAR  
SCALE: 1"=1'-0"

RIGHT SIDE VIEW OF NEW SIDE BLOCK TRANSFER CAR  
SCALE: 1"=1'-0"

SHEET 5 of 10 S-201	THESE DESIGNS AND SPECIFICATIONS ARE NOW AND DO REMAIN THE PROPERTY OF HEGGER DRY DOCK, INC. USE OF THESE DESIGNS OR REPRODUCTION OF THESE DESIGNS WITHOUT OUR EXPRESS WRITTEN PERMISSION IS PROHIBITED.	CLIENT NAME AND ADDRESS: <b>ALASKA SHIP &amp; DRYDOCK, LLC.</b> KETCHIKAN, ALASKA	DES. MAP'D. DRW. JLB GKM RHH CHIEF ENG. R. HEGGER DATE: 9/21/2012	HEGGER DRY DOCK, Inc. DRY DOCK ENGINEERS GENERAL INSPECTION AND CERTIFICATION 531 CONCORD STREET HOLLISTON, MA 01746 (978) 428-1800	DATE APPR
	PROJECT TITLE: TRANSFER CARS WITH PULL BLOCKS NEW SIDE BLOCK TRANSFER CAR	DRAWING TITLE: NEW SIDE BLOCK TRANSFER CAR	SCALE: AS NOTED PROJECT NO.: 3556-0 CONTR. CONTR. NO.	D5 D4 D3 D2 C5 C4 C3 C2 B5 B4 B3 B2 A5 A4 A3 A2 A1	1 2 3 4 5

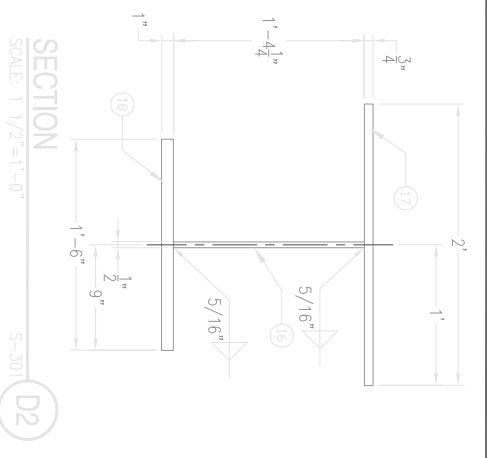


- NOTES:**
- 1) TYPE 5, 316 STAINLESS STEEL PULLEY, 6" DIA. x 1 5/8" WIDE  
3/4" DIA. SHAFT 8,000 lbs. WORKING LOAD LIMIT WITH A  
PLAIN BRONZE BEARING.  
SUPPLIED BY MCMMASTER-CARR [www.mcmaster.com](http://www.mcmaster.com)  
PART No. 3524127
  - 2) 18-8 STAINLESS STEEL CLEVIS PIN, 3/4" DIA. x 3 1/2" LONG  
3 1/4" USABLE LENGTH.  
SUPPLIED BY MCMMASTER-CARR [www.mcmaster.com](http://www.mcmaster.com)  
PART NO. 923904529
  - 3) 18-8 STAIN STEEL COTTER PIN, 1/8" DIA. x 1 1/2" LONG  
SUPPLIED BY MCMMASTER-CARR [www.mcmaster.com](http://www.mcmaster.com)  
PART No. 984014485

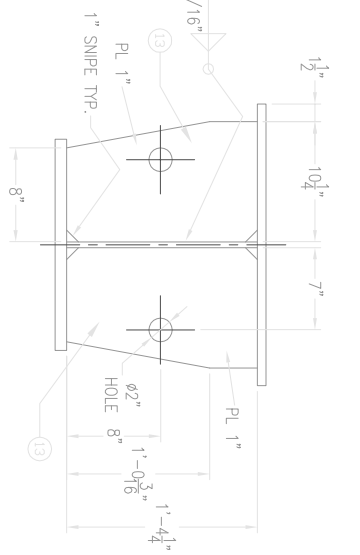


NO. REQUIRED IN THIS LIST IS PER SIDE BLOCK TRANSFER CAR.			
15	1	1'-9" x 1'-4 1/4" x 3/4"	AH36
14	6	1'-4 1/4" x 10 1/4" x 1/2"	AH36
13	2	1'-4 1/4" x 10 1/4" x 1" PL	AH36
12	1	7'-11 3/4" x 1'-6" x 1" PL	AH36
11	1	7'-11 3/4" x 2'-0" x 3/4" PL	AH36
10	1	7'-10 1/2" x 14 1/4" x 1/2" PL	AH36
9	1	1/8" DIA. COTTER PIN SEE NOTE 3	
8	1	S.S. CLEVIS PIN SEE NOTE 2	
7	1	STAINLESS STEEL PULLEY SEE NOTE 1	
6	2	2 1/2" x 1" x 3/8" PL	AH36
5	2	9 1/4" x 3" x 3/8" PL	AH36
4	1	1'-4 1/4" x 10 13/16" x 1/2" PL	AH36
3	4	7" x 7" x 1" GUSSET PL	AH36
2	1	1'-7" x 7" x 3/4" PL	AH36

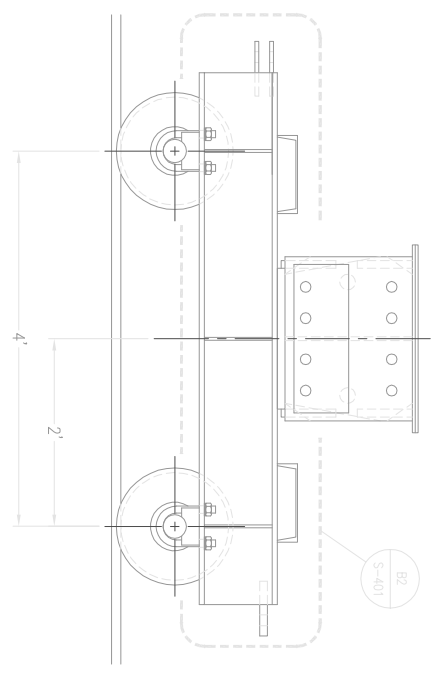
<p>DES: MAP DWG: ALB GKM RHT                  CHIEF ENG: R. HEGGER                  DATE: 9/21/2012</p>	<p>ALASKA SHIP &amp; DRYDOCK, LLC.                  KETCHIKAN, ALASKA</p>	<p>PROJECT TITLE:                  TRANSFER CARS WITH PULL BLOCKS</p>	<p>DRAWING TITLE:                  NEW SIDE BLOCK TRANSFER CAR</p>	DATE	APPR
				<p>DRY DOCK ENGINEERS                  GENERAL INSPECTOR AND CERTIFICATION                  531 CONCORD STREET                  HOLLISTON, MA 01746                  (978) 425-1800</p>	
<p>CLIENT NAME AND ADDRESS:</p>		<p>SCALE: AS NOTED                  PROJECT NO.: 3556-0                  CONTR. CONTR. NO.:</p>		<p>SHEET 6 OF 10</p>	



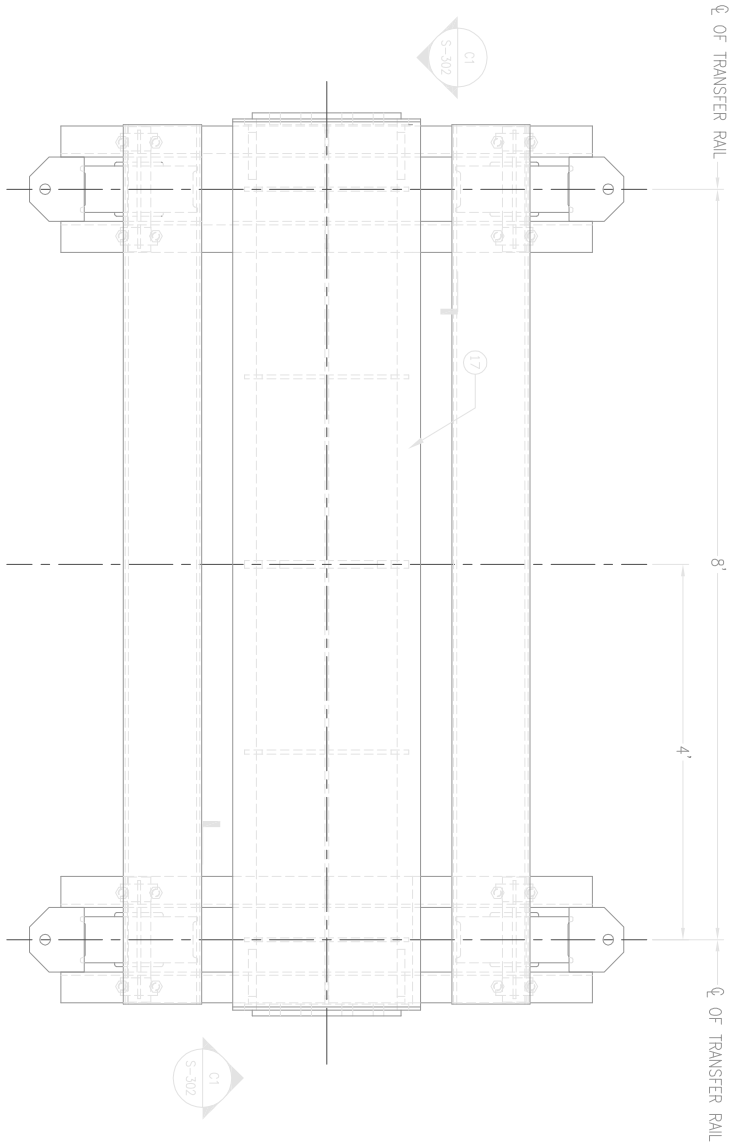
SECTION D2  
SCALE: 1/2"=1'-0"  
S-301



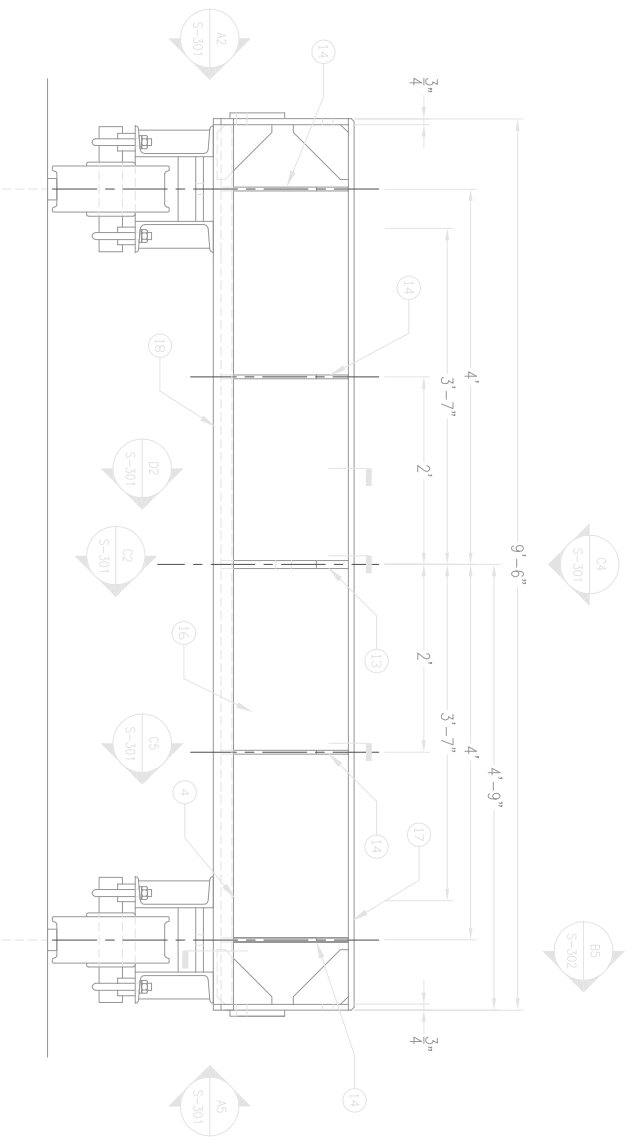
SECTION C2  
SCALE: 1/2"=1'-0"  
S-301



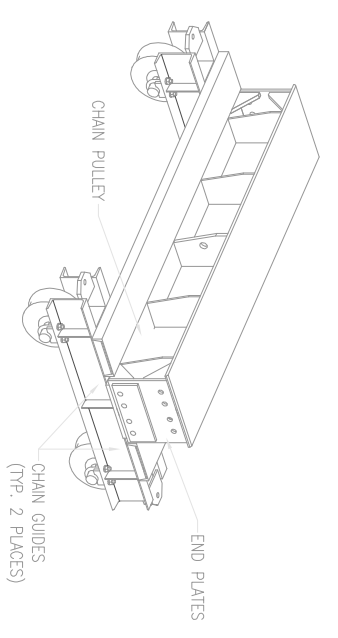
LEFT SIDE VIEW OF NEW TRANSFER CAR  
SCALE: 1"=1'-0"  
S-301 A2



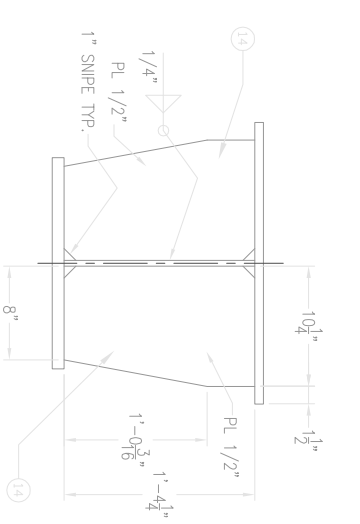
PLAN VIEW OF NEW TRANSFER CAR  
SCALE: 1"=1'-0"  
S-301 C4



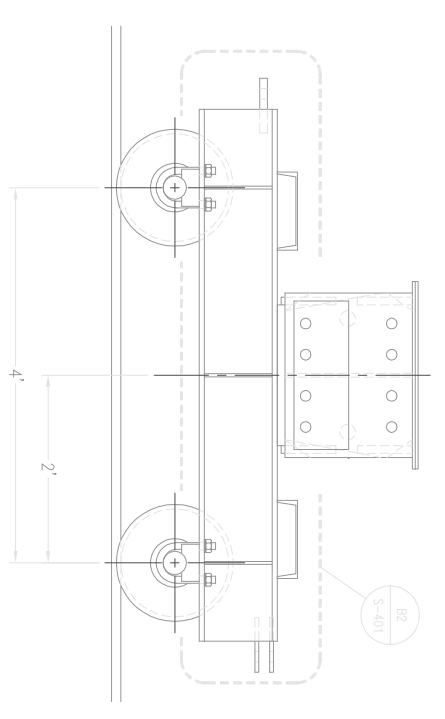
ELEVATION OF NEW TRANSFER CAR  
SCALE: 1"=1'-0"  
S-301 A4



ISOMETRIC VIEW OF NEW TRANSFER CAR  
SCALE: N.T.S.  
S-301 D5



SECTION C5  
SCALE: 1/2"=1'-0"  
S-301



RIGHT SIDE VIEW OF NEW TRANSFER CAR  
SCALE: 1"=1'-0"  
S-301 A5

SYMBOL	DESCRIPTION	DATE	APPROVAL

**HEGER DRY DOCK, Inc.**  
 DRY DOCK ENGINEERS  
 DESIGN, INSPECTION AND CONSTRUCTION  
 531 CONCORD STREET  
 HOLLISTON, MA 01746  
 (978) 428-1800

DWG. NO. S-301  
 DES. MAP'D. DRW. ALB. GIM. REHT.  
 CHIEF ENG. R. HEGGER  
 DATE: 9/21/2012

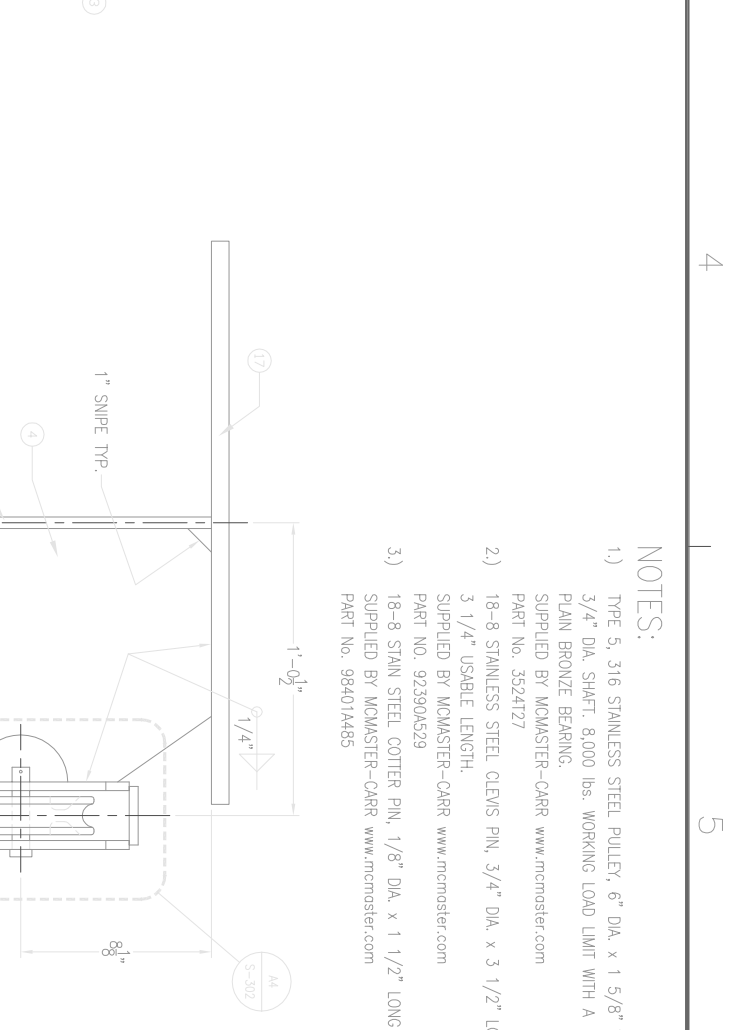
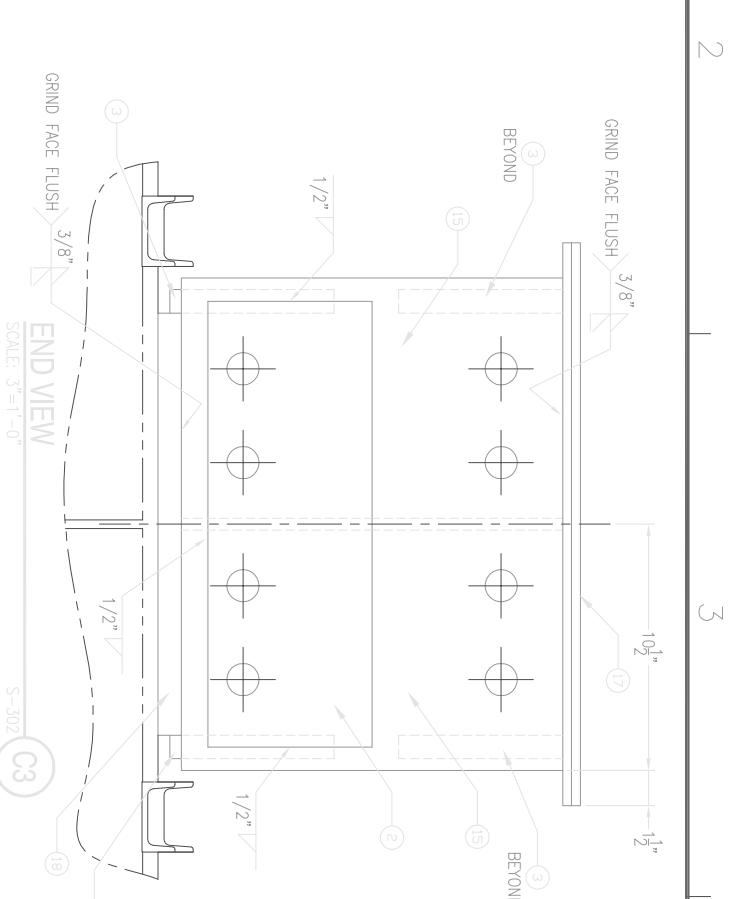
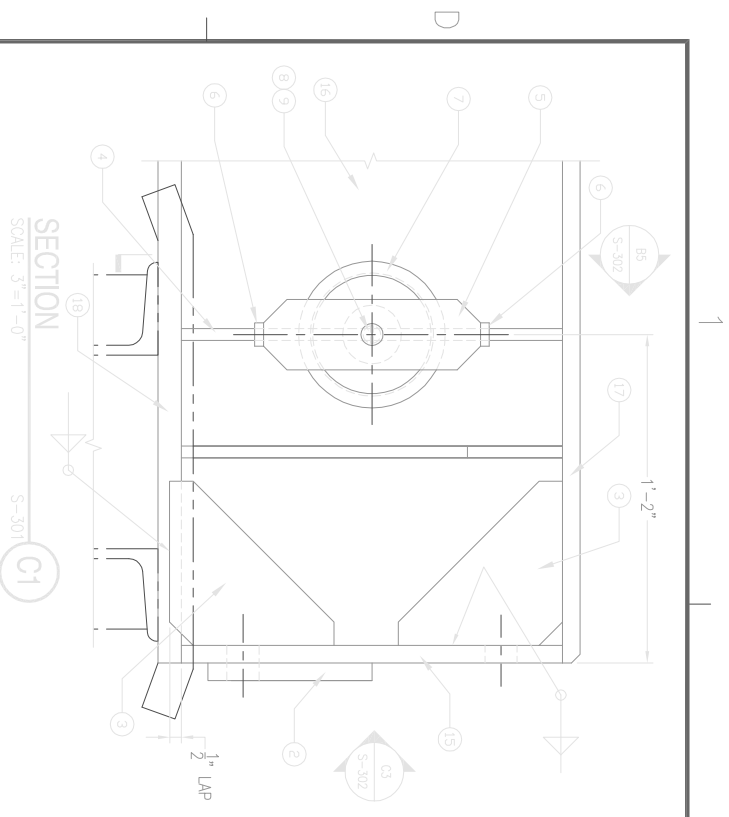
THESE DESIGNS AND SPECIFICATIONS ARE NOW AND DO REMAIN THE PROPERTY OF HEGGER DRY DOCK, INC. USE OF THESE DESIGNS OR REPRODUCTION OF THESE DESIGNS WITHOUT OUR EXPRESS WRITTEN PERMISSION IS PROHIBITED.

CLIENT NAME AND ADDRESS:  
**ALASKA SHIP & DRYDOCK, LLC.**  
 KETCHIKAN, ALASKA

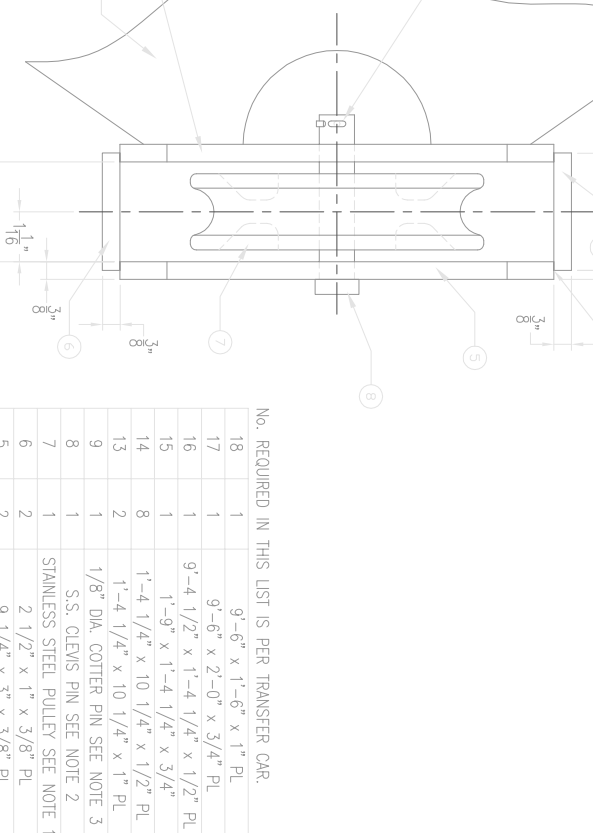
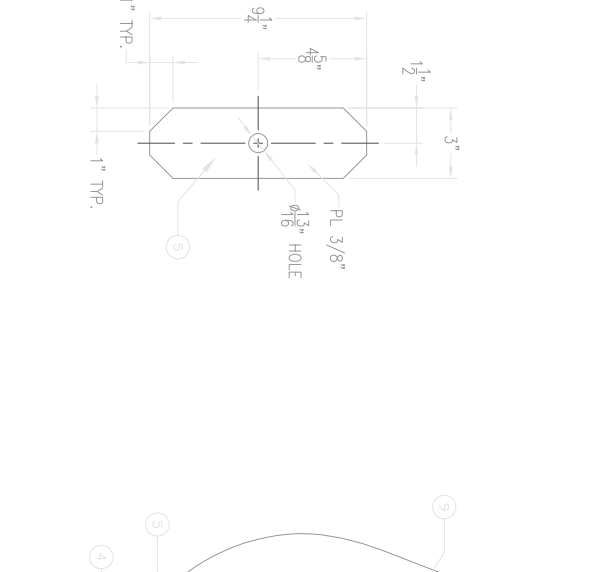
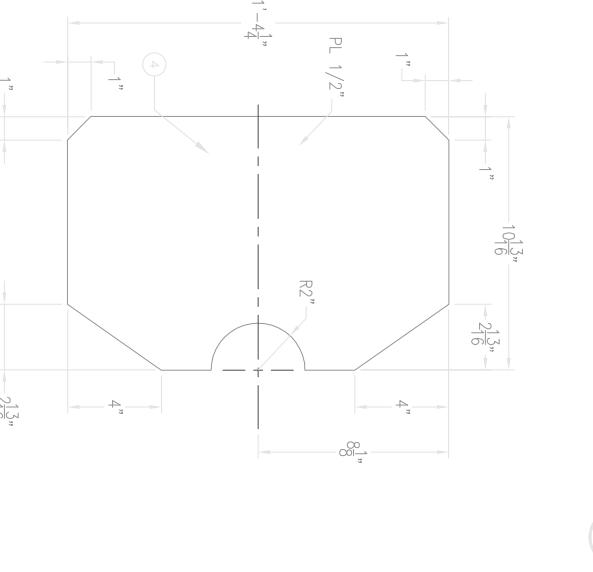
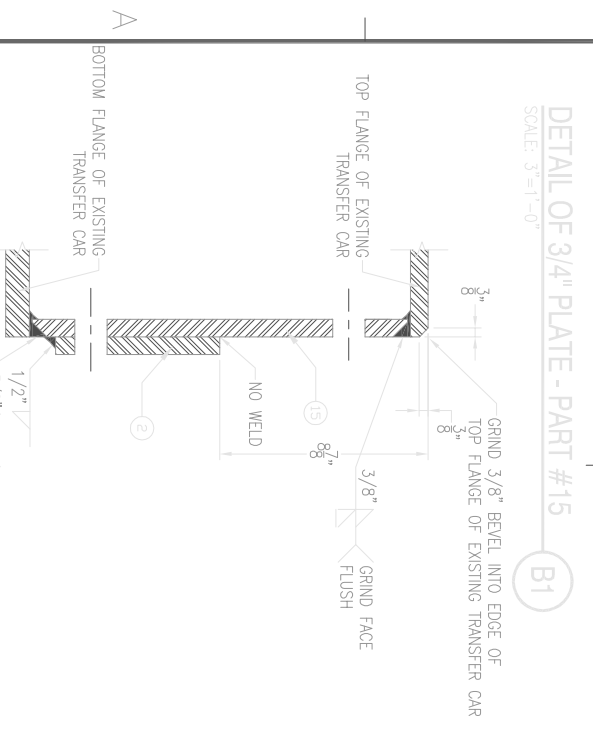
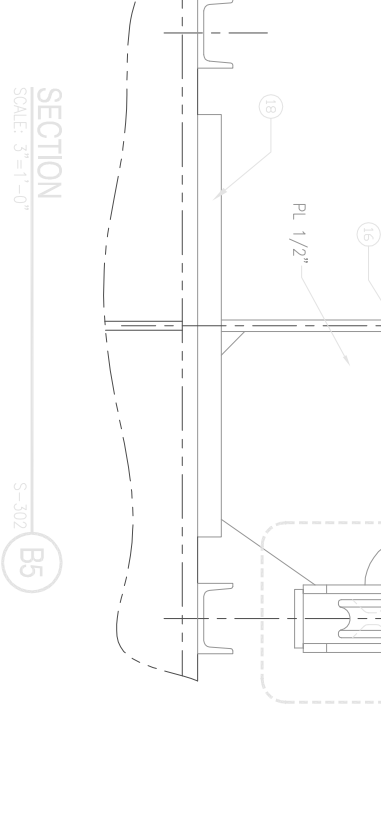
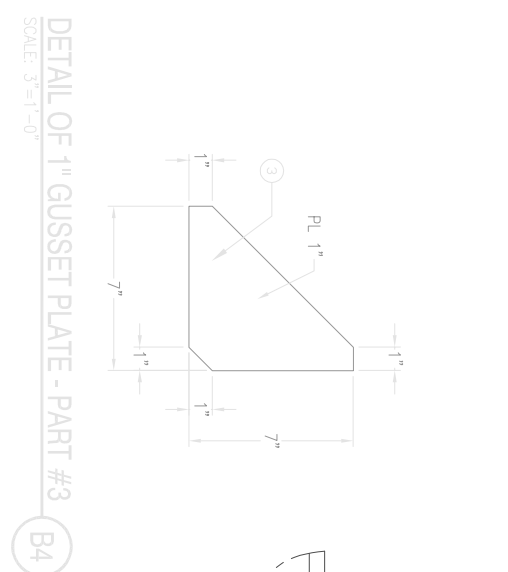
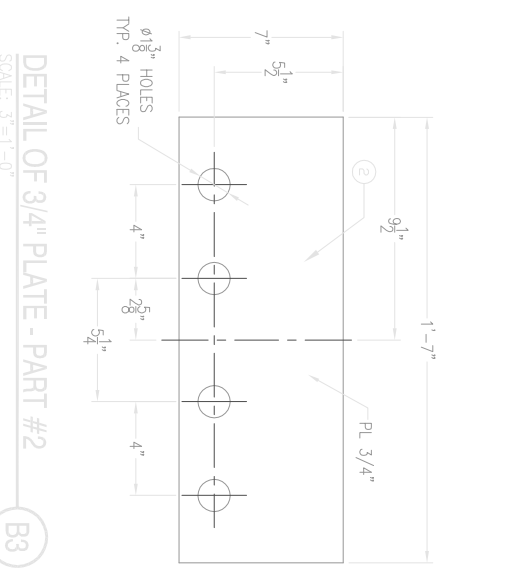
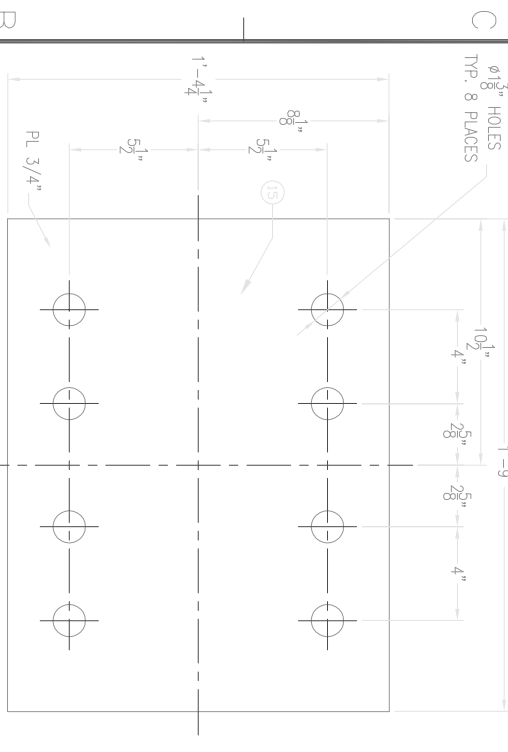
PROJECT TITLE:  
 TRANSFER CARS WITH PULL BLOCKS

DRAWING TITLE:  
 NEW TRANSFER CAR

SHEET	7	OF	10
S-301			



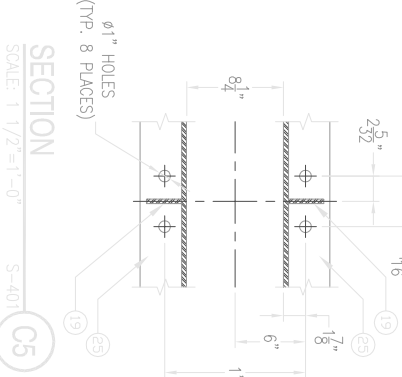
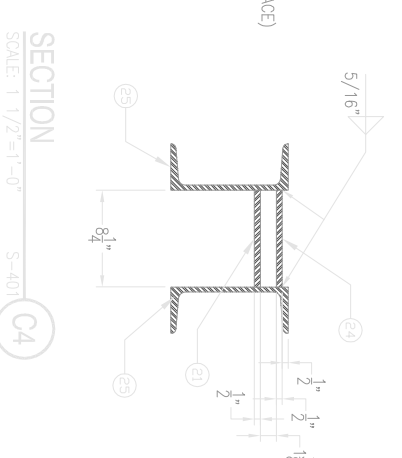
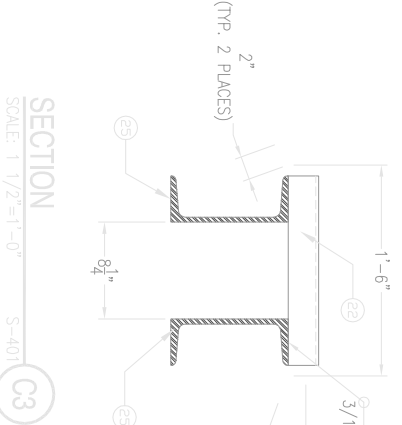
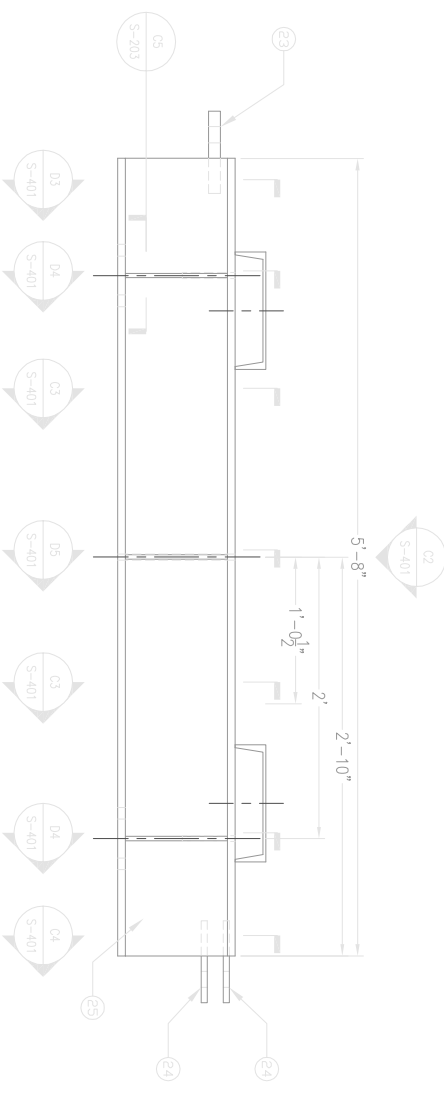
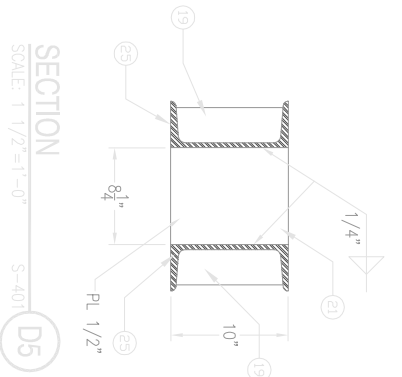
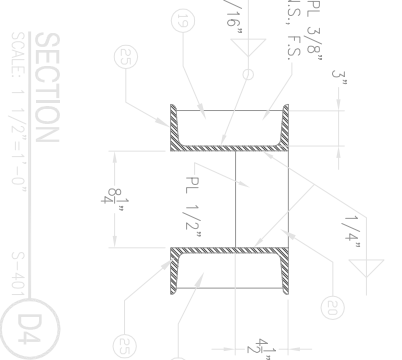
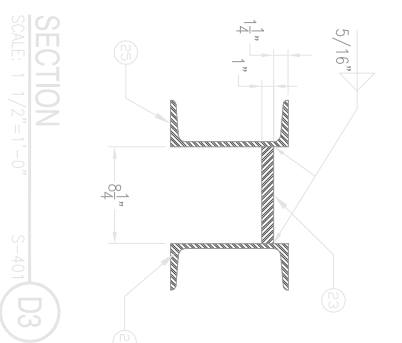
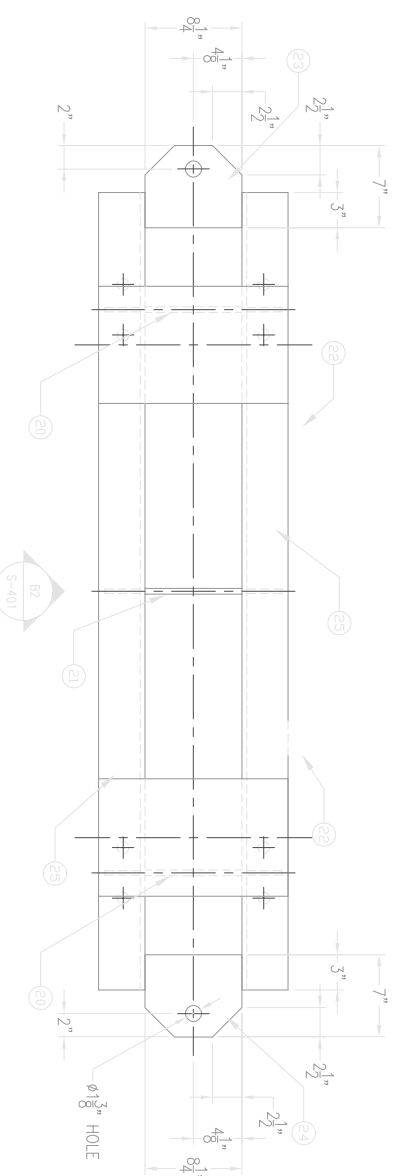
- NOTES:**
- 1) TYPE 5, 316 STAINLESS STEEL PULLEY, 6" DIA. x 1 5/8" WIDE 3/4" DIA. SHAFT 8,000 lbs. WORKING LOAD LIMIT WITH A PLAIN BRONZE BEARING. SUPPLIED BY MCMMASTER-CARR [www.mcmaster.com](http://www.mcmaster.com) PART No. 3524127
  - 2) 18-8 STAINLESS STEEL CLEVIS PIN, 3/4" DIA. x 3 1/2" LONG 3 1/4" USABLE LENGTH. SUPPLIED BY MCMMASTER-CARR [www.mcmaster.com](http://www.mcmaster.com) PART NO. 923904529
  - 3) 18-8 STAIN STEEL COTTER PIN, 1/8" DIA. x 1 1/2" LONG SUPPLIED BY MCMMASTER-CARR [www.mcmaster.com](http://www.mcmaster.com) PART No. 984014485



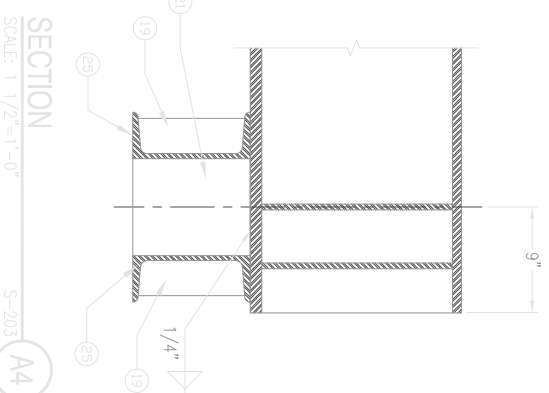
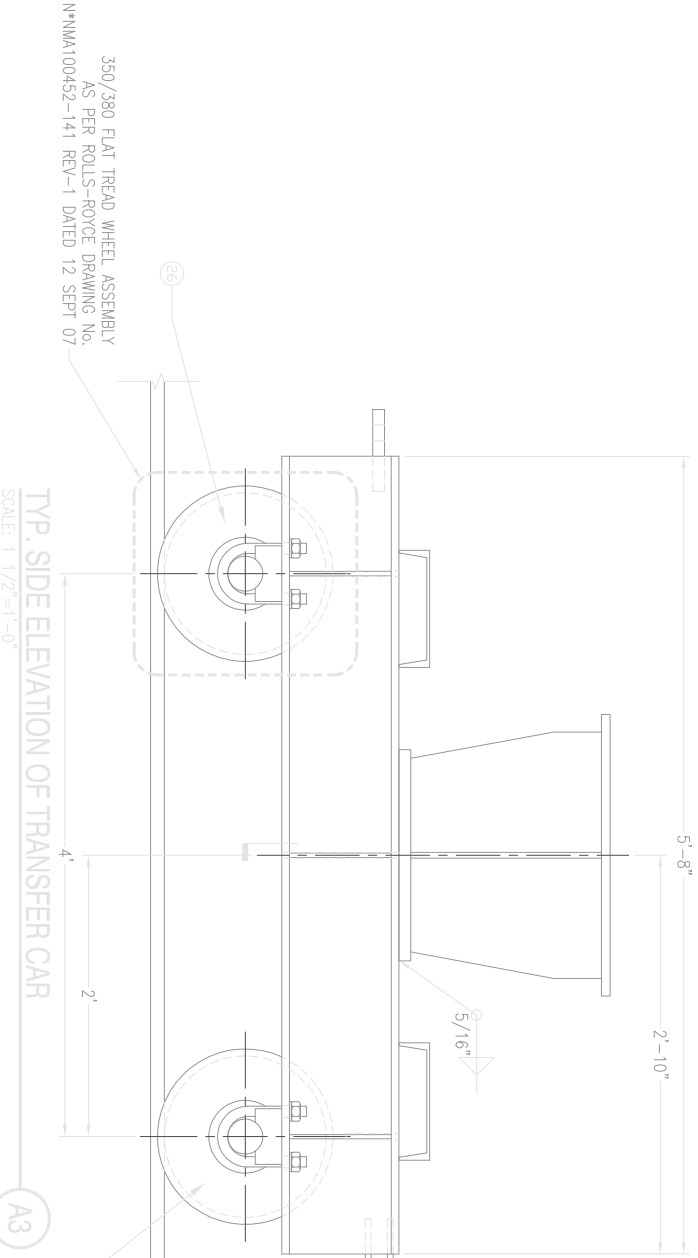
No.	REQUIRED IN THIS LIST IS PER TRANSFER CAR.	REMARKS
18	1 9'-6" x 1'-6" x 1" PL	AH36
17	1 9'-6" x 2'-0" x 3/4" PL	AH36
16	1 9'-4 1/2" x 1'-4 1/4" x 1/2" PL	AH36
15	1 1'-9" x 1'-4 1/4" x 3/4" PL	AH36
14	8 1'-4 1/4" x 10 1/4" x 1/2" PL	AH36
13	2 1'-4 1/4" x 10 1/4" x 1" PL	AH36
9	1 1/8" DIA. COTTER PIN SEE NOTE 3	
8	1 S.S. CLEVIS PIN SEE NOTE 2	
7	1 STAINLESS STEEL PULLEY SEE NOTE 1	
6	2 1/2" x 1" x 3/8" PL	AH36
5	2 9 1/4" x 3" x 3/8" PL	AH36
4	1 1'-4 1/4" x 10 13/16" x 1/2" PL	AH36
3	4 7" x 7" x 1" GUSSET PL	AH36
2	1 1'-7" x 7" x 3/4" PL	AH36

PART No.	No. REQD	LIST OF MATERIALS	REMARKS
1	1	9'-6" x 1'-6" x 1" PL	AH36
2	2	2 1/2" x 1" x 3/8" PL	AH36
3	4	7" x 7" x 1" GUSSET PL	AH36
4	1	1'-4 1/4" x 10 13/16" x 1/2" PL	AH36
5	2	9 1/4" x 3" x 3/8" PL	AH36
6	2	1 1/2" x 1" x 3/8" PL	AH36
7	1	STAINLESS STEEL PULLEY SEE NOTE 1	
8	1	S.S. CLEVIS PIN SEE NOTE 2	
9	1	1/8" DIA. COTTER PIN SEE NOTE 3	
13	2	1'-4 1/4" x 10 1/4" x 1" PL	AH36
14	8	1'-4 1/4" x 10 1/4" x 1/2" PL	AH36
15	1	1'-9" x 1'-4 1/4" x 3/4" PL	AH36
16	1	9'-4 1/2" x 1'-4 1/4" x 1/2" PL	AH36
17	1	9'-6" x 2'-0" x 3/4" PL	AH36
18	1	9'-6" x 1'-6" x 1" PL	AH36

DES: MAP CHIEF ENG: R. HEGGER DATE: 9/21/2012	ALASKA SHIP & DRYDOCK, LLC. KETCHIKAN, ALASKA	PROJECT TITLE: TRANSFER CARS WITH PULL BLOCKS	DRAWING TITLE: NEW TRANSFER CAR	DRY DOCK ENGINEERS GENERAL INSPECTION AND CONSTRUCTION 531 CONCORD STREET HOLLISTON, MA 01746 (978) 428-1800	SHEET 8 OF 10 S-302
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ELEVATION OF TRUCK ASSEMBLY  
SCALE: 1 1/2"=1'-0"



350/380 FLAT TREAD WHEEL ASSEMBLY  
AS PER ROLLS-ROYCE DRAWING No.  
N4MMA100452-141 REV-1 DATED 12 SEPT 07

No. REQUIRED IN THIS LIST IS PER SIDE BLOCK TRANSFER CAR.

26	2	350/380 FLAT TREAD WHEEL ASSEMBLY	AH36
25	2	MC10 x 28.5 x 5'-8" LONG	AH36
24	2	7" x 8 1/4" x 1/2" TOW EYE PLATE	AH36
23	1	7" x 8 1/4" x 1" TOW EYE PLATE	AH36
22	2	C5x3 APPROX. 1'-10 3/4" LONG	A36
21	1	10" x 8 1/4" x 1/2" PL	AH36
20	2	4 1/2" x 8 1/4" x 1/2" PL	AH36
19	6	3" x 3/8" STIFFENER PL	AH36

THESE DESIGNS AND SPECIFICATIONS ARE NOW AND DO REMAIN THE PROPERTY OF HEGER DRY DOCK, INC. USE OF THESE DESIGNS OR REPRODUCTION OF THESE DESIGNS WITHOUT OUR EXPRESS WRITTEN PERMISSION IS PROHIBITED.

CLIENT NAME AND ADDRESS:  
**ALASKA SHIP & DRYDOCK, LLC.**  
KETCHIKAN, ALASKA

PROJECT TITLE:  
TRANSFER CARS WITH PULL BLOCKS

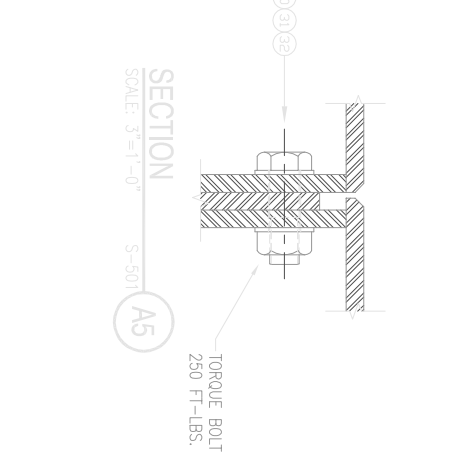
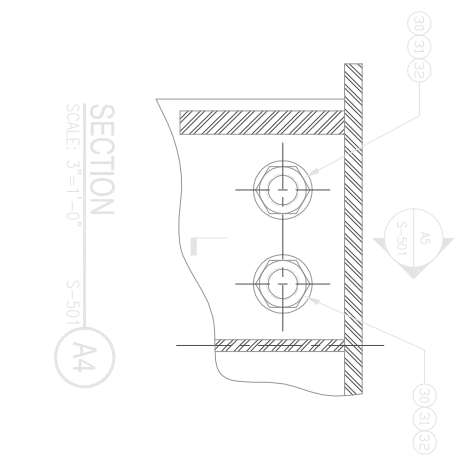
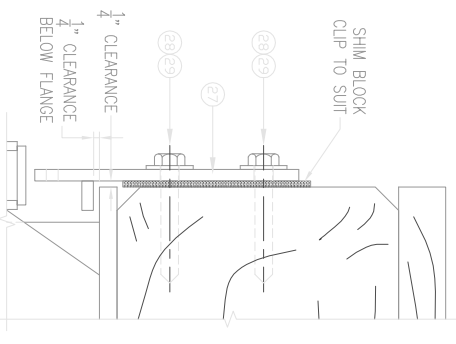
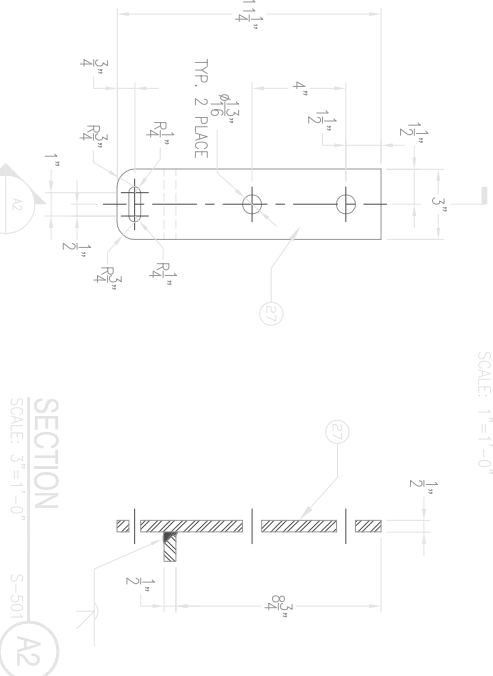
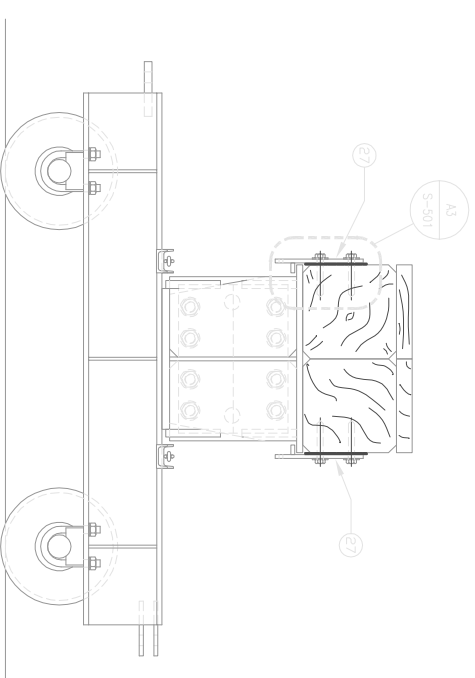
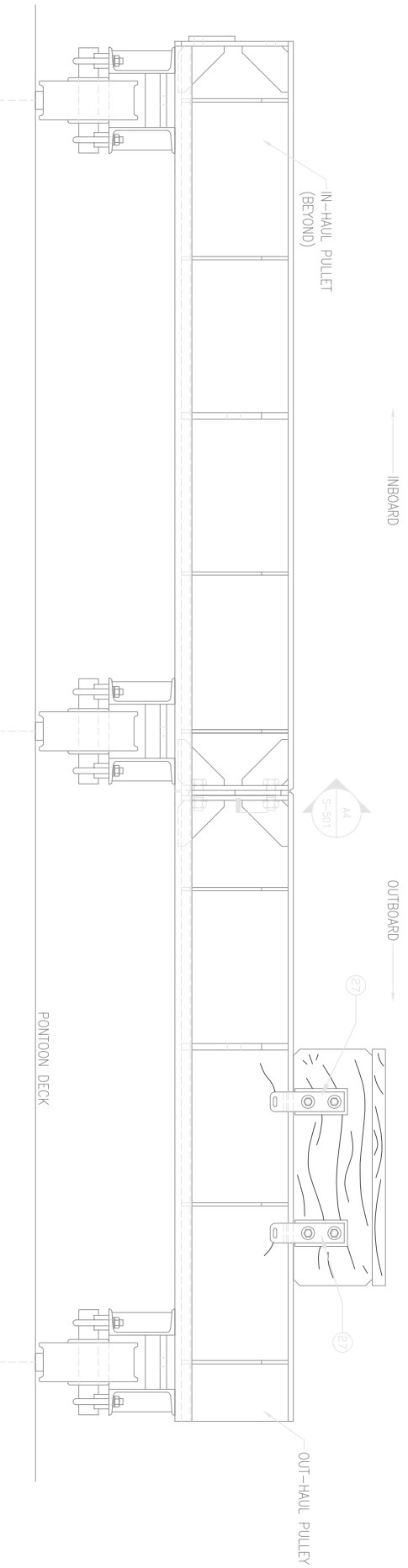
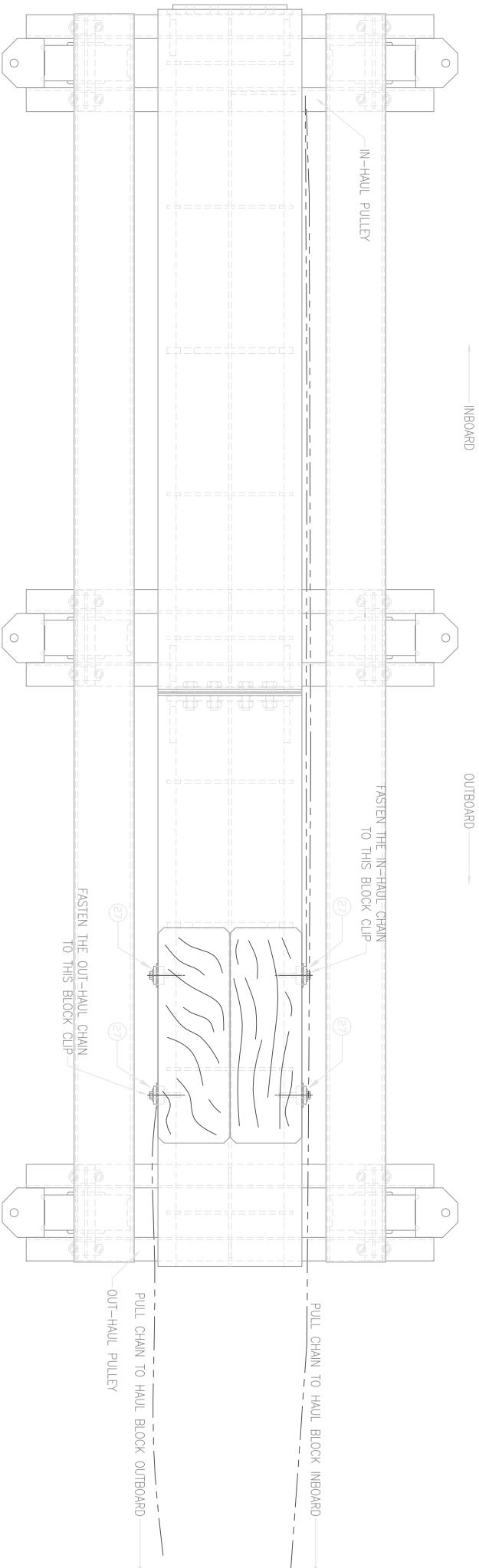
DRAWING TITLE:  
NEW TRANSFER CAR TRUCK ASSEMBLY DETAILS

DWG MAP: DWG: ALB: SHK: REHT  
CHK: RNC: R: HEGER  
DATE: 9/21/2012

HEGER DRY DOCK, Inc.  
DRY DOCK ENGINEERS  
DESIGN, INSPECTION AND CONSTRUCTION  
531 CONCORD STREET  
HOLLISTON, MA 01746  
(978) 425-1800

SHEET 9 OF 10

SYMBOL	DESCRIPTION	DATE	APPROVED



- NOTES:
- 1) 3/4" x 5" LONG HOT-DIPPED GALVANIZED LAG SCREW, SUPPLIED BY MCMMASTER-CARR [www.mcmaster.com](http://www.mcmaster.com) PART No. 940484407
  - 2) 3/4" HOT-DIPPED GALVANIZED STEEL FLAT WASHER, SUPPLIED BY MCMMASTER-CARR [www.mcmaster.com](http://www.mcmaster.com) PART No. 98970A136
  - 3) A325 1 1/4"-7 x 4" LONG HOT-DIPPED GALVANIZED STEEL HEX HEAD STRUCTURAL BOLT, SUPPLIED BY MCMMASTER-CARR [www.mcmaster.com](http://www.mcmaster.com) PART No. 91583A331
  - 4) 1 1/4"-7 GRADE C STEEL HEX NUT, SUPPLIED BY MCMMASTER-CARR [www.mcmaster.com](http://www.mcmaster.com) PART No. 90580A45
  - 5) 1 1/4" SCREW SIZE HOT-DIPPED GALVANIZED STEEL STRUCTURAL WASHER, SUPPLIED BY MCMMASTER-CARR [www.mcmaster.com](http://www.mcmaster.com) PART No. 98119A044

NO.	REQUIRED IN THIS LIST BELOW IS PER CAR CONNECTION.
32	16
31	8
30	8

NO. REQUIRED IN THIS LIST BELOW IS PER BLOCK.

NO.	REQUIRED IN THIS LIST BELOW IS PER BLOCK.	REMARKS
29	8	3/4" FLAT WASHERS SEE NOTE 2
28	8	3/4" DIA. LAG SCREW SEE NOTE 1
27	4	1 1/4" x 3" x 1/2" BLOCK CLIP
PART No.	No. REQ.	LIST OF MATERIALS

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CLIENT NAME AND ADDRESS:  
**ALASKA SHIP & DRYDOCK, LLC.**  
KETCHIKAN, ALASKA

PROJECT TITLE:  
TRANSFER CARS WITH PULL BLOCKS

DRAWING TITLE:  
MISCELLANEOUS DETAILS

DES. MAP: DRW. JLB GJK RHH  
CHIEF ENG. R. HEGER  
DATE: 9/21/2012

HEGER DRY DOCK, Inc.  
DRY DOCK ENGINEERS  
DESIGN, INSPECTION AND CONSTRUCTION  
531 CONCORD STREET  
HOLLISTON, MA 01746  
(978) 428-1800

SCALE: AS NOTED  
PROJECT NO.: 3556-0  
CONTR. CONTR. NO.

SHEET	NO.	TOTAL SHEETS
10	9	10



