

L.S.M.R.E.

LARGE SCALE MODEL RAILWAY ENGINEERING



GONDOLAS

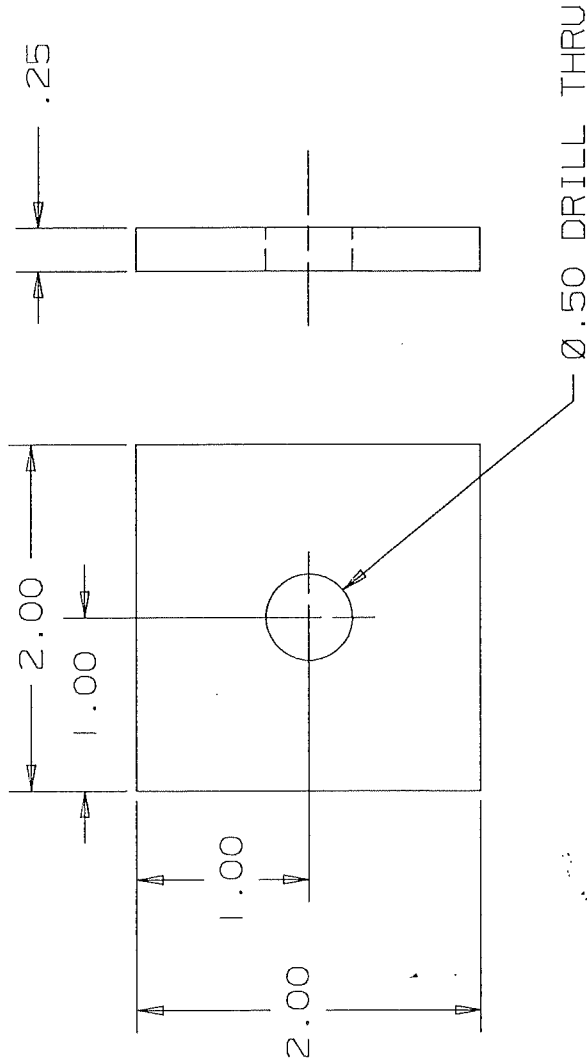
Volume VI

GONDOLA CARS

This volume of the Large Scale Model Railroad Engineering reprint series covers the construction of gondola cars. Several styles and lengths are covered including straight side and fish belly designs in 40 and 48 foot lengths.

Construction is straight forward using the Milwaukee Light Engineering Society end and rib castings and standard steel shapes for the underframe. The Sides can be made of aluminum or steel sheet depending on availability of material. Construction is started by attaching the ends and sides together using a couple of round head screws in each corner. Drive screws will be installed later to fill in the rivet detail. Once the sides are in place the floor can be doped in place to square up the body. Next the top rails can be fitted and welded together and installed around the top of the car body. One is then ready to install the rib castings using 1/8 rivets and #4 drive screws. Remember to place the support angles under the floor and rivet the ribs to the angle. The last step is to place the center sill channels and weld in the bolster bars and center pins in place. The bolster bars may have to be fitted slightly for a good fit. To finish the car install the #4 drive screws as desired, install the grabs and stirrups and any other details and paint.

Good luck on your project.



DO NOT SCALE DRAWING
TOLERANCES
UNLESS OTHERWISE SPECIFIED:
ANGLES $\pm 1^\circ$
DECIMALS: (3 PLACE) $\pm .005$
(2 PLACE) $\pm .015$

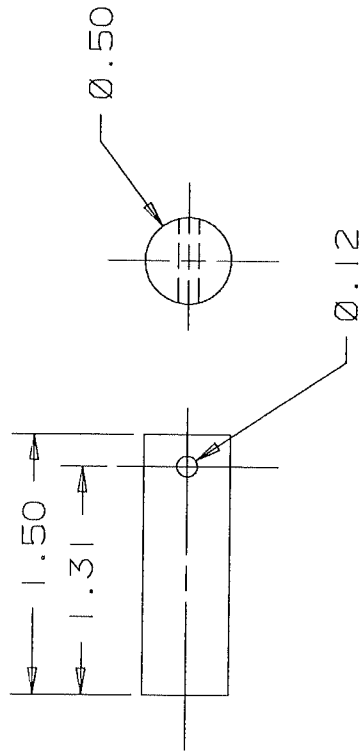
SAW SQUARE AND DEBURR

MATERIAL: 1/4 X 2 HR FLAT

PIKE LAKE & EASTERN

Hartford Shops

DWN	TA	DATE	5-1-94	FILE	SCALE	1
OKD		DATE		DWG		1-100
TITLE						NO.
PAD, TRUCK						CD-123
SYM	ECO	REVISION	BY	DATE		



DEBURR BOTH ENDS AND HOLE

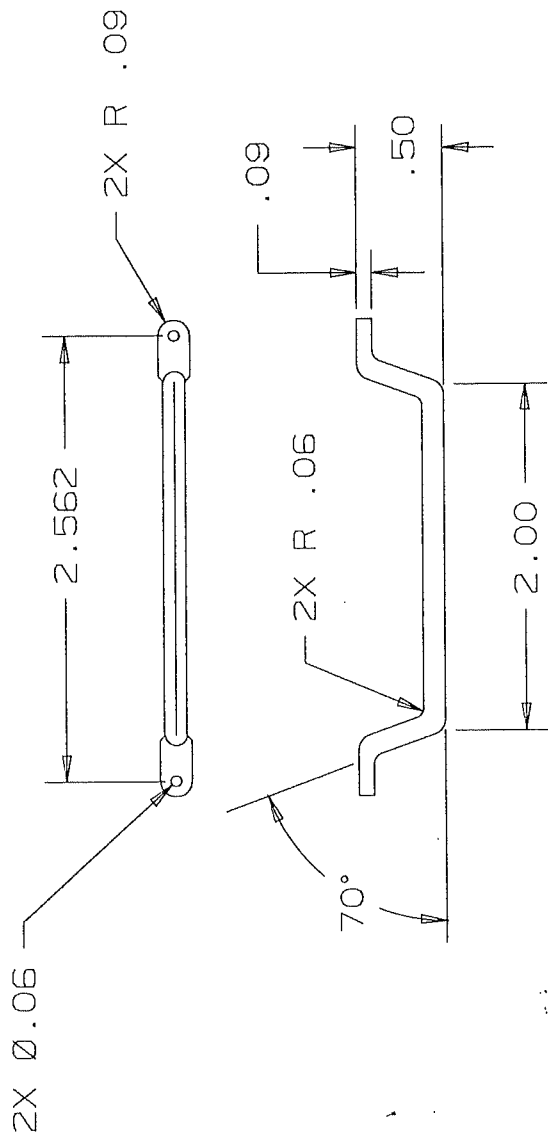
DO NOT SCALE DRAWING
TOLERANCES
UNLESS OTHERWISE SPECIFIED:
ANGLES $\pm 1^\circ$
DECIMALS: (3 PLACE) $\pm .005$
(2 PLACE) $\pm .015$

MATERIAL: 1/2 COLD ROLLED

PIKE LAKE & EASTERN

Hartford Shops

OWN	TA	DATE	6-1-94	FILE	SCALE	1
CKD		DATE		DWG		1-100
TITLE				TRUCK PIN		
SYM	ECO	REVISION	BY	DATE	NO.	
					CD-128	



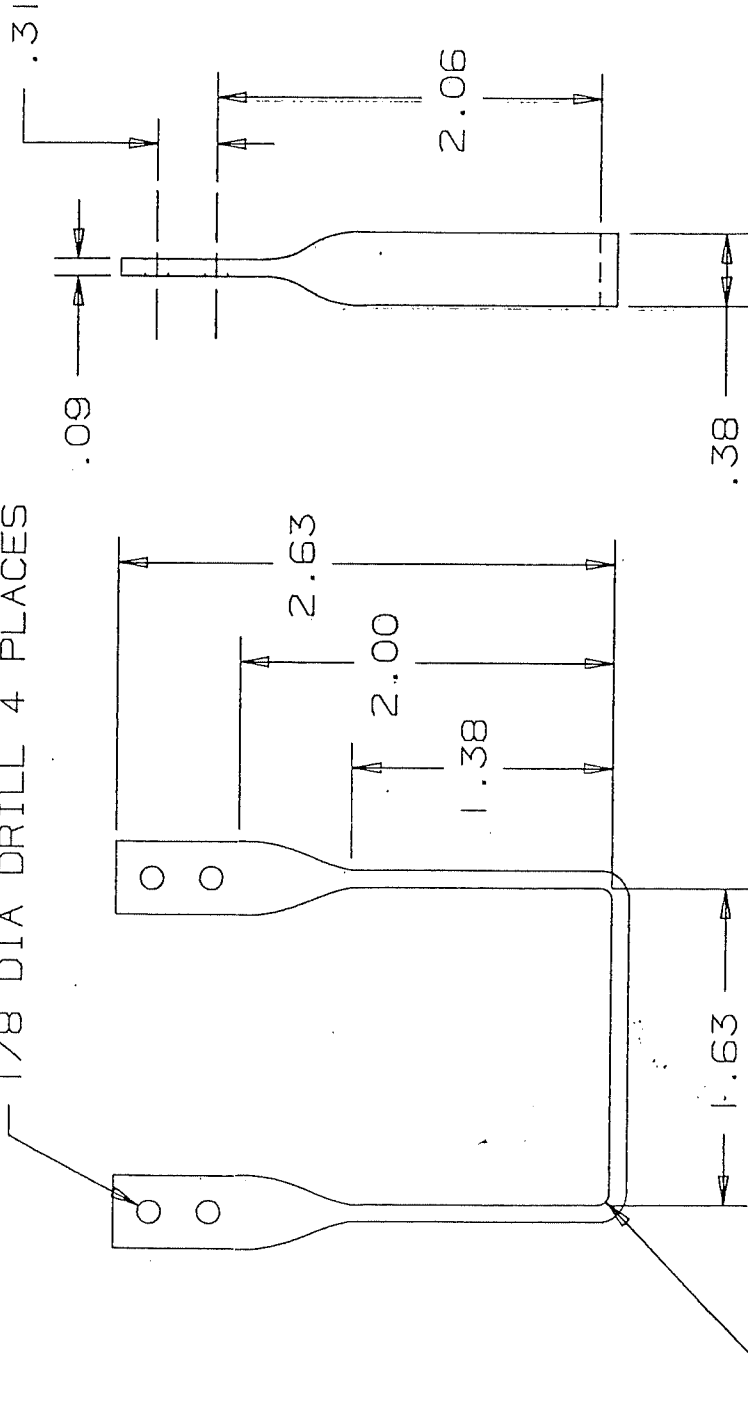
DO NOT SCALE DRAWING
TOLERANCES
UNLESS OTHERWISE SPECIFIED:
ANGLES ±1°
DECIMALS: (3 PLACES) ±.005
(2 PLACES) ±.015

MATERIAL: 1/8 ROUND BRASS

PIKE LAKE & EASTERN
Hartford Shops

Hartford Shops													
DWN	TA	DATE	FILE	SCALE									
CKD		DATE	DWG	1-100									
TITLE				No.									
SYM				ECO				REVISION		BY		DATE	

1/8 DIA DRILL 4 PLACES



2X R .06

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(2 PLACE) $\pm .015$

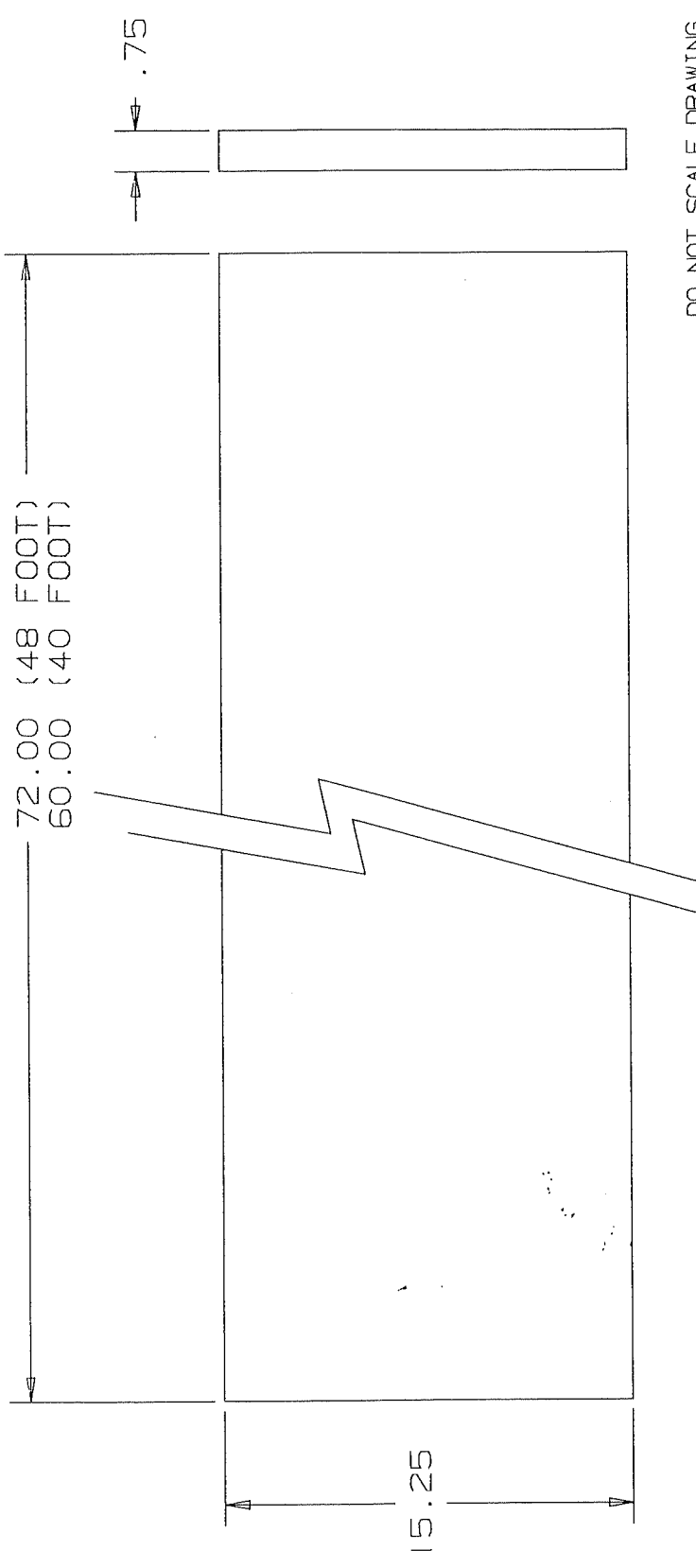
MATERIAL: BRASS OR STEEL

PIKE LAKE & EASTERN

Hartford Shops

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					CKO		DATE	DWG	
									1-100
									NO.
									CD-132

STIRRUP



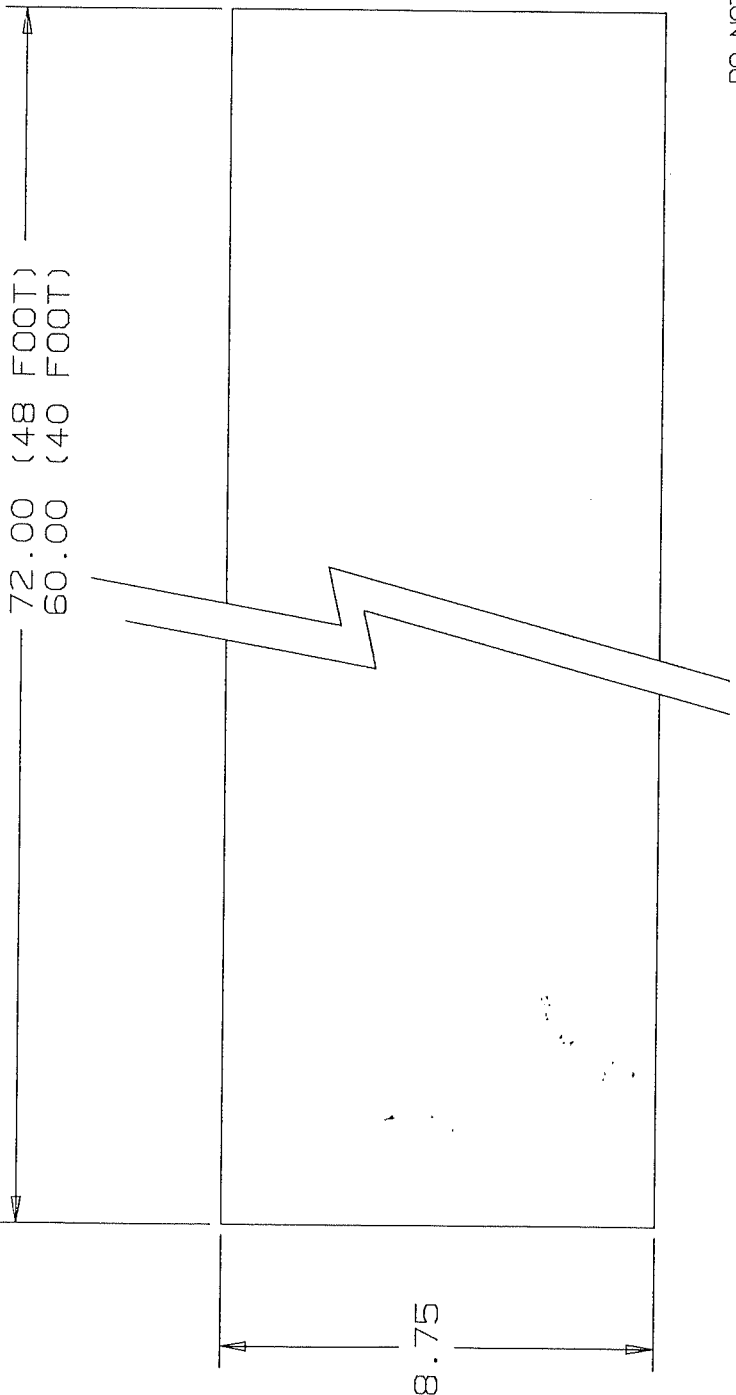
DO NOT SCALE DRAWING
TOLERANCES
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ANGLES ±1°
DECIMALS: (3 PLACE) ±.005
(2 PLACE) ±.015

PRIME AND PAINT ALL SIDES

MATERIAL: 3/4 PLYWOOD

PIKE LAKE & EASTERN Hartford Shops			
DWN	TA	DATE	FILE
		8-29-94	
CKD		DATE	DWG
			1-100
TITLE			NO.
FLOOR, GONDOLA			CD-135

SYM	ECO	REVISION	BY	DATE

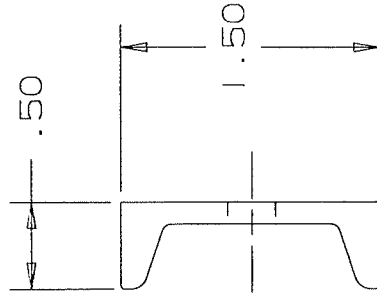
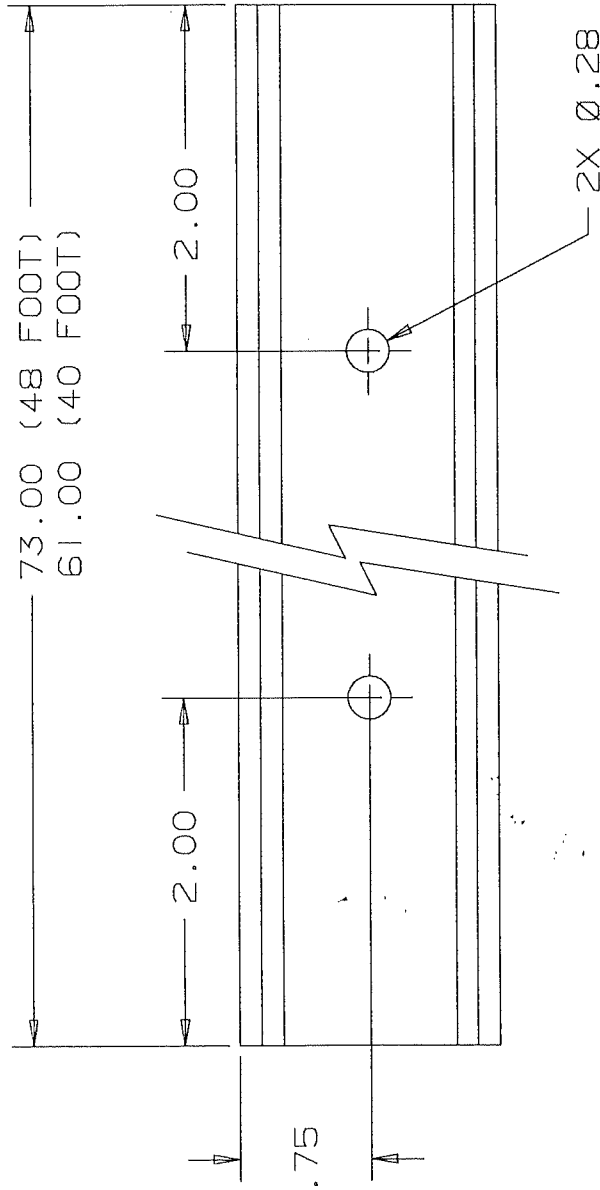


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(2 PLACE) $\pm .015$

MATERIAL: 1/8 STEEL OR ALUMINUM

PIKE LAKE & EASTERN Hartford Shops			
DWN	TA	DATE	FILE
		8-29-94	
CKD		DATE	DWG
TITLE			SCALE
SIDE, GONDOLA			N.S.
NO.			1-100
CD-136			

SYM	ECO	REVISION	BY	DATE

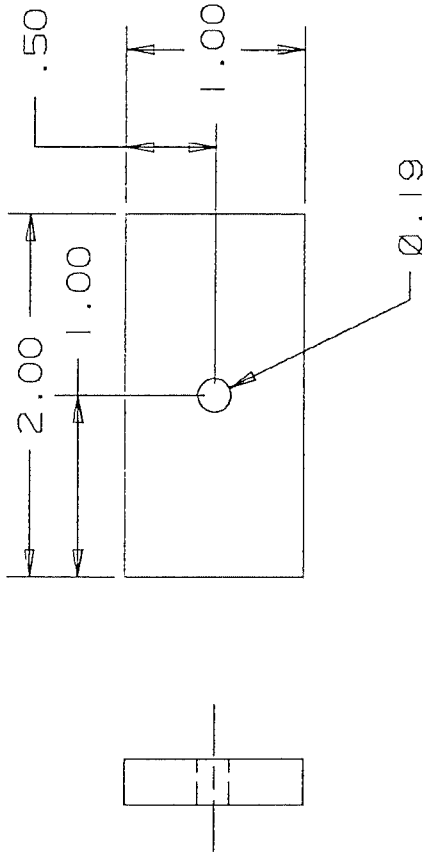


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(2 PLACES) $\pm .015$
MATERIAL: 1 1/2 X 1/2 X 1/8 STEEL CHANNEL

SAW SQUARE AND DEBURR

PIKE LAKE & EASTERN
Hartford Shops

DWN	TA	DATE	8-29-94	FILE	SCALE	1
CKD		DATE		DWG		1-100
TITLE						NO.
CHANNEL, CENTER SILL						CD-137
SYM	ECO	REVISION	BY	DATE		



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DECIMALS: (3 PLACE) $\pm .005$
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MATERIAL: 1/4 X 1 HR FLAT

PIKE LAKE & EASTERN

Hartford Shops

SYM	ECO	REVISION	BY	DATE

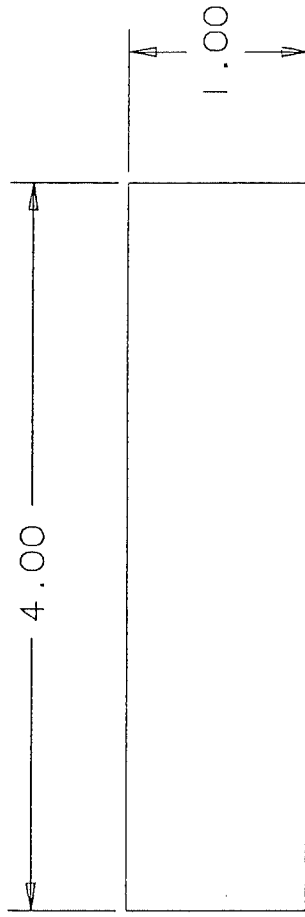
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CHKD	DATE	DWG		

TITLE

CHANNEL SPACER

NO.

CD-141



DO NOT SCALE DRAWING
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DECIMALS: (3 PLACE) $\pm .005$
(2 PLACE) $\pm .015$

MATERIAL: 1/4 X 1 HR FLAT

PIKE LAKE & EASTERN
Hartford Shops

DWN	TA	DATE	FILE	SCALE
		10-2-94		1
CKD		DATE	DWG	
				1-100
TITLE				NO.
COUPLER COVER				CD-142

SYM	ECO	REVISION	BY	DATE