



23-0157

Standing Committee: Public Infrastructure Committee

Document Name: Resolution Authorizing Emergency Repairs to the Eighth Street Lift Bridge

Action:

Place on File - No Council action needed

Refer to:

Refer to Council

Consent

Non-Consent

Committee Recommendation:

Adopt the resolution

Attest:

Chair – Alderperson Michael Cummings

2/20/23

Date

Vice Chair – Alderperson James Brey

Alderperson Steve Czekała

Alderperson Chad Beeman

Alderperson Tim Boldt

Approved:

Justin M. Nickels
Mayor

2/21/23
Date

**RESOLUTION AUTHORIZING EMERGENCY REPAIRS
TO THE EIGHTH (8th) STREET LIFT BRIDGE**

WHEREAS, the City of Manitowoc owns and is responsible for maintenance of the Eighth (8th) Street Lift Bridge; and,

WHEREAS, the northwest pinion gear of the Eighth (8th) Street Lift Bridge has experienced significant movement (off track by approx. 2 inches) due to unknown factors; and,

WHEREAS, the Eighth Street Lift Bridge provides essential transportation services to the public; and

WHEREAS, failure to quickly repair the bridge will likely result in further damage and a long-term closure of the bridge, which would cause a significant delay in public safety response times, significant traffic congestion in Downtown Manitowoc and the potential for impacting shipping/marine traffic; and

WHEREAS, the Director of Public Infrastructure and the Engineering Division Manager have recommended taking immediate action to repair the bridge so that the bridge remains in a safe operating condition; and,

WHEREAS, Wis. Stat. §62.15(1b) authorizes waiving of public bidding requirements for the repair and reconstruction of public facilities when determined by resolution that the damage or threatened damage creates an emergency in which the public health or welfare of the City of Manitowoc is endangered.

NOW, THEREFORE, BE IT RESOLVED, the City of Manitowoc Board of Public Works declares the significant movement of the northwest pinion gear (main lifting gear) of the Eighth (8th) Street Lift Bridge to be an emergency in which the public health and welfare is endangered unless prompt action is taken.

BE IT FURTHER RESOLVED that the Board of Public Works authorizes the proper City officials to waive bids or Class I Notices for the necessary repair work to provide a safe and functional transportation thoroughfare on the Eighth (8th) Street Lift Bridge. The costs of the necessary emergency work at the Eighth (8th) Street Lift Bridge shall be made available from the City's capital projects funds.

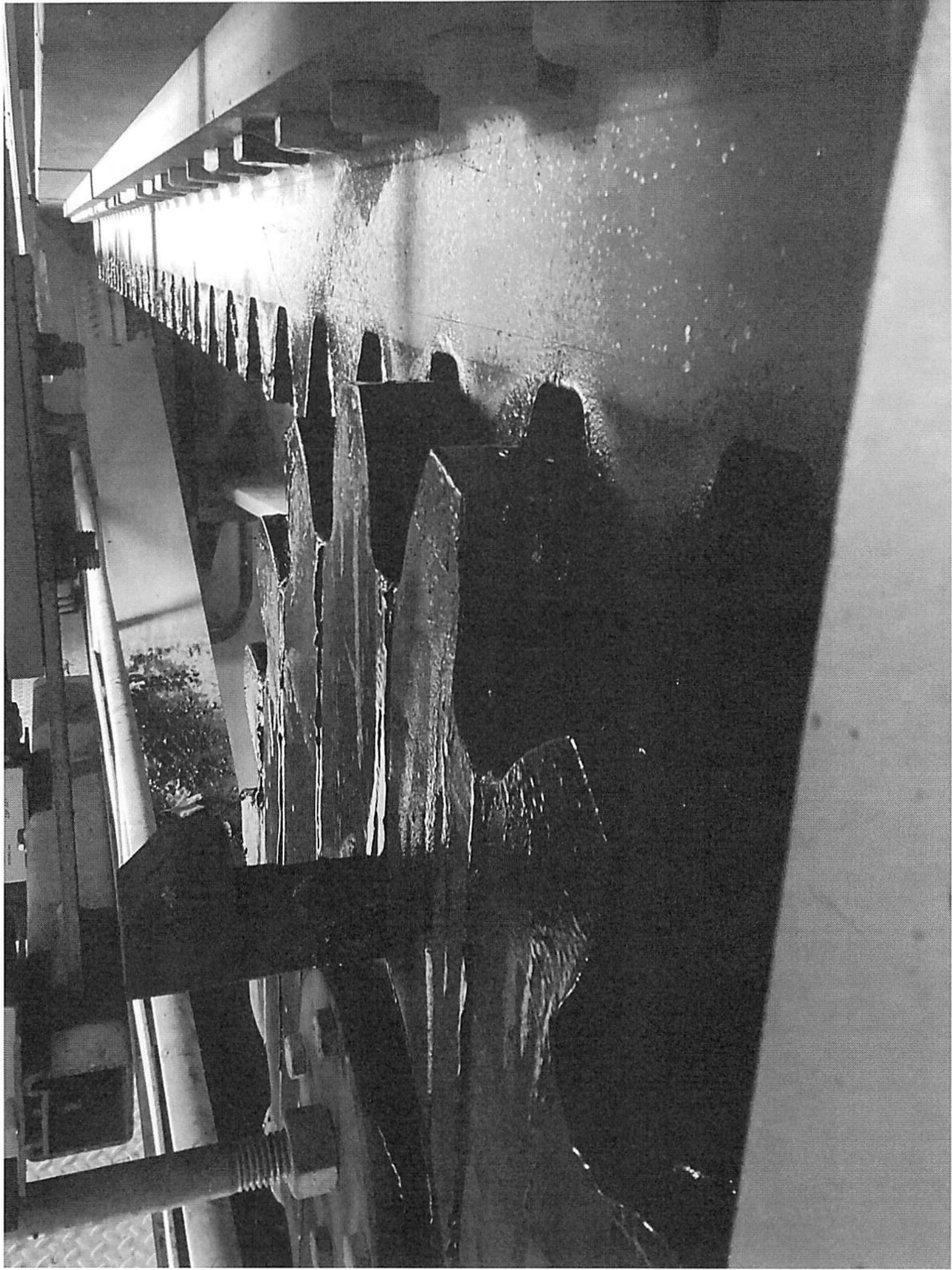
BE IT FURTHER RESOLVED that the Mayor, Justin Nickels, and/or Director of Public Infrastructure, Dan Koski, are authorized to sign any contracts necessary to effect repair work at the Eighth (8th) Street Lift Bridge, and shall forward those contracts on to the Common Council to be properly preserved in the public record.

BE IT FURTHER RESOLVED that this Resolution shall remain in effect until the Mayor and Common Council of the City of Manitowoc determine by majority vote that the emergency no longer exists, pursuant to Wis. Stat. §62.15(1b).

INTRODUCED FEB 20 2023 ADOPTED FEB 20 2023
 APPROVED 2/21/23
Justin M. Nickels

Fiscal Impact: \$15,000 estimated
Funding Source: 4300-34111-582360
Finance Director Approval: /JMN
Approved as to form: /EGN

This resolution was drafted by Gregory J. Minikel, Engineering Division Manager





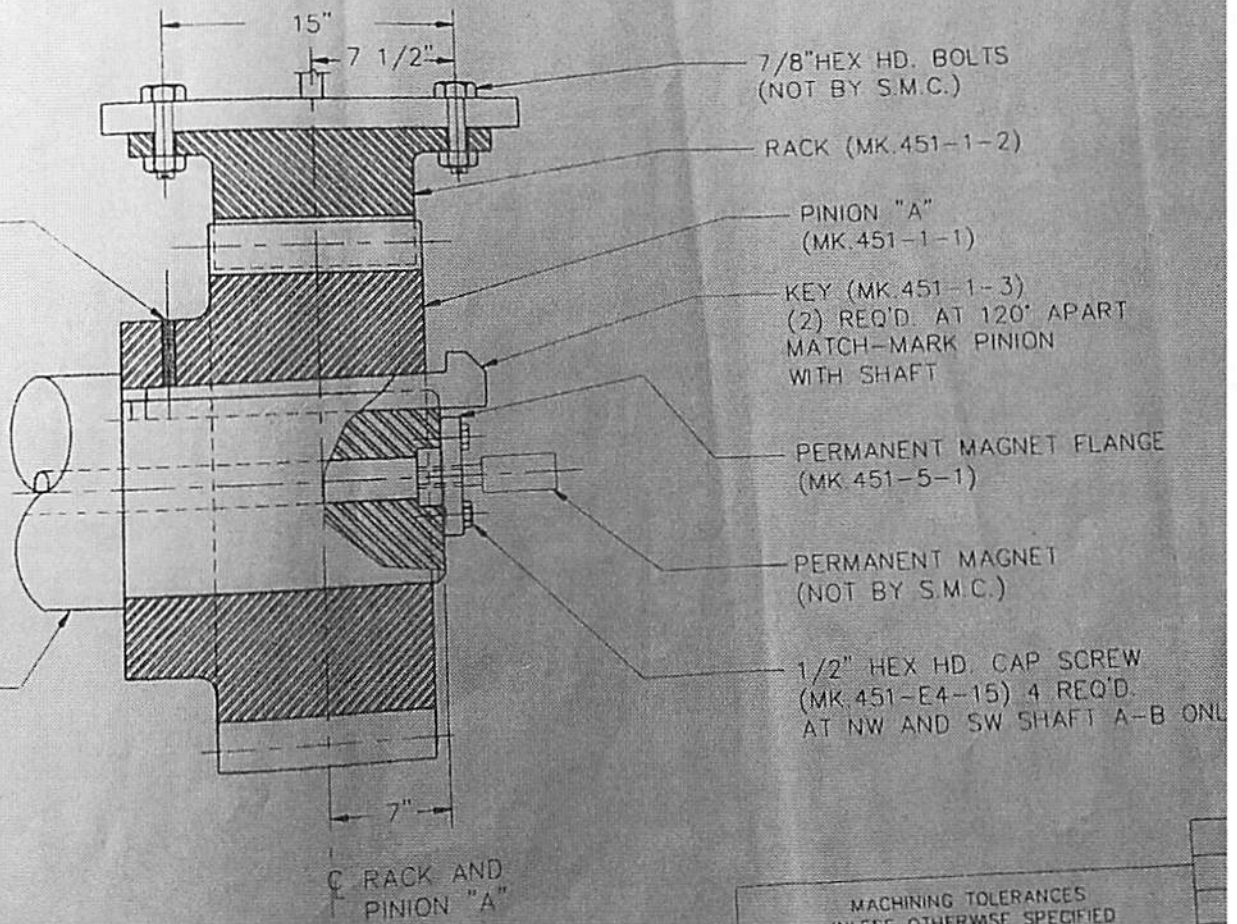
SITION
FULLY OPEN)

| | | | |
|-----------|----|--|-----|
| 451-E4-8 | 32 | 1 1/2" - 6UNC 2A HVY HEX BOLT x 500" DEEP KEYWAY ASTM A325, TYPE I, GALV PER ASTM-A153, Class C | 17 |
| | 32 | 1 1/2" - 6UNC 2B HVY HEX NUT ASTM A563 GRADE "DH" GALV | |
| | 32 | 1 1/2" FLAT WASHER ASTM F436 GALV. | |
| 451-E4-9 | 32 | 1 1/2" - 6UNC 2A HVY HEX BOLT x 2'-3 1/2" LG. ASTM A325, TYPE I, GALV PER ASTM-A153, Class C | 521 |
| | 32 | 1 1/2" - 6UNC 2B HVY HEX NUT ASTM A563 GRADE "DH" GALV. | |
| | 32 | 1 1/2" FLAT WASHER ASTM F436 GALV. | |
| 451-E4-10 | 32 | 3/4" - 10UNC 2A SQ.HD. BOLT x 3" LG. FULL THREADS ASTM A307 | 23 |
| 451-E4-11 | 16 | 7/8" - 9UNC 2A HVY HEX BOLT x 2'-1" LG. ASTM A325, TYPE I, GALV PER ASTM-A153, Class C | 74 |
| | 16 | 7/8" - 9UNC 2B HVY HEX NUT ASTM A563 GRADE "DH" GALV. | |
| | 16 | 7/8" FLAT WASHER ASTM F436 GALV. | |
| 451-E4-12 | 32 | 1" - 8UNC 2A HVY HEX BOLT x 2'-1 1/2" LG. ASTM A325, TYPE I, GALV PER ASTM-A153, Class C | 200 |
| | 32 | 1" - 8UNC 2B HVY HEX NUT ASTM A563 GRADE "DH" GALV. | |
| | 32 | 1" FLAT WASHER ASTM F436 GALV. | |

APART

EX SOC. SET SCREW
(1-E4-14) 2 REQ'D.
AT ASSEMBLY

SHAFT a-b
(MK. 451-4-1)



SECTION E-E
(TAKEN FROM 451-E2)

| MACHINING TOLERANCES UNLESS OTHERWISE SPECIFIED | | | |
|--|-------------|------------|---------|
| DECIMAL | X ± .060" | FRACTIONAL | ± 1/16" |
| | XX ± .030" | | |
| | XXX ± .010" | ANGLES | ± 1/2° |

BIRMINGHAM
 DIRECT BRIDGE OPERATING
 DETAILS BRIDGE OPERATING
 INSTRUCTIONS & UNDETAILED
 DRAWINGS
 CUSTOMER: ZENITH TECH
 LOCATION: WAUKESHA, WISCONSIN
 DRAWN BY: JE
 CHECKED BY: JE
 DATE: 11/13/83
 DWG NO: 431-F2
 NO: 5016-Z

| FITS AND SURFACE FINISHES | | |
|--|---------------|--------|
| SURFACE | FIT | FINISH |
| MACHINERY BASE ON STEEL | ----- | 250 |
| BEARING SUPPORTS AT BEARING BASE | ----- | 125 |
| MACHINERY PARTS IN FIXED CONTACT | ----- | 125 |
| PINION A HUB ON SHAFT | LC5 | |
| | BORE + .0020 | 63 |
| | SHAFT - .0007 | 63 |
| GEAR B HUB ON SHAFT | FN2 | |
| | BORE + .0020 | 63 |
| | SHAFT + .0082 | 63 |
| PINION C HUB ON SHAFT | * | * |
| | FN2 | |
| | BORE + .0016 | 63 |
| GEAR D HUB ON SHAFT | FN2 | |
| | BORE - .0000 | 63 |
| | SHAFT + .0055 | 63 |
| GEAR TEETH - RACK, PINIONS A & C, GEAR B | ----- | 125 |
| GEAR TEETH - PINION E & GEAR D | ----- | 63 |
| SHAFT JOURNALS AT ROLLER BRGS & COUPLINGS & BRAKES ON SHAFTS | ** | ** |
| KEYS | + .0000 | |
| | - .0025 | 63 |
| KEYWAYS | + .0040 | |
| | - .0000 | 63 |

* FRACTIONAL MECHANICAL LOCKING DEVICES, USED WITH PINION C HUBS, MANUFACTURER'S RECOMMENDATIONS.
 ** ROLLER BEARING, COUPLING & BRAKE MANUFACTURER'S RECOMMENDATIONS.

NOTE "A" (FROM SHEET V)

THE MACHINERY LAYOUT SHD FOR USE WITH FLENDER LSH BLOCKS AND HYDROMECHANIC STATED IN THE SPECIAL PRO AND/OR SUPPORTS TO ACC BE MADE BY THE CONTRACT SHALL SUBMIT DETAILED OF THE ENGINEER FOR APPRO

ALL EQUIPMENT SHALL BE MECHANICAL WORK, TURN INSTALLED UNDER THE BE HYDRAULIC WORK, INST

ALL DIMENSIONS SHOWN COMPONENTS AND/OR ST MUST BE CONFIRMED UP MANUFACTURER'S REQU

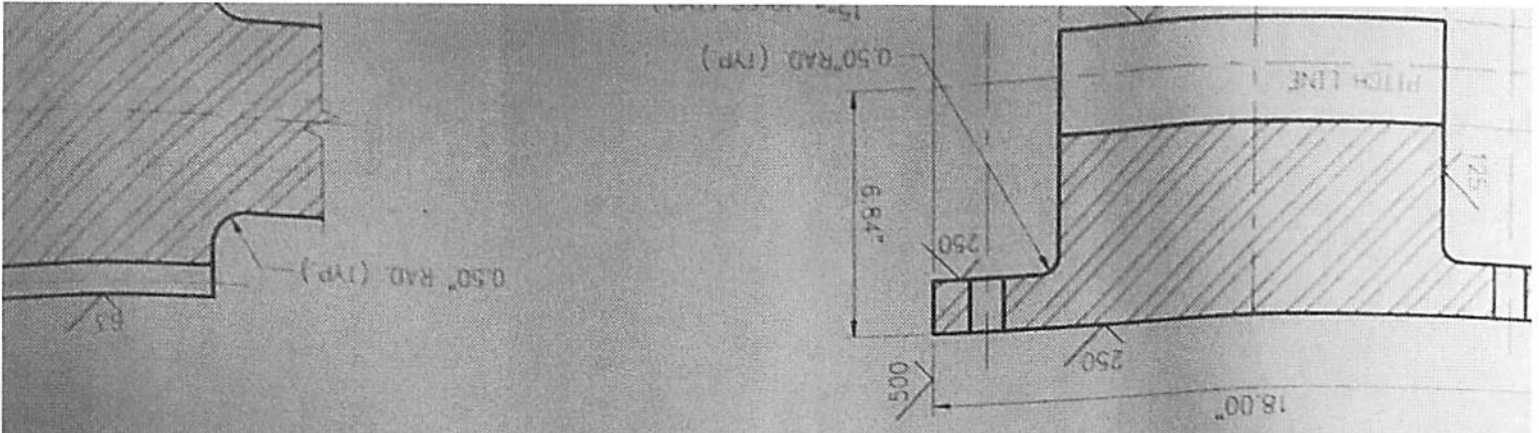
SURFACE FINISHES RE AMERICAN NATIONAL S FINISHES LATEST ED

NOTE "B": (FROM

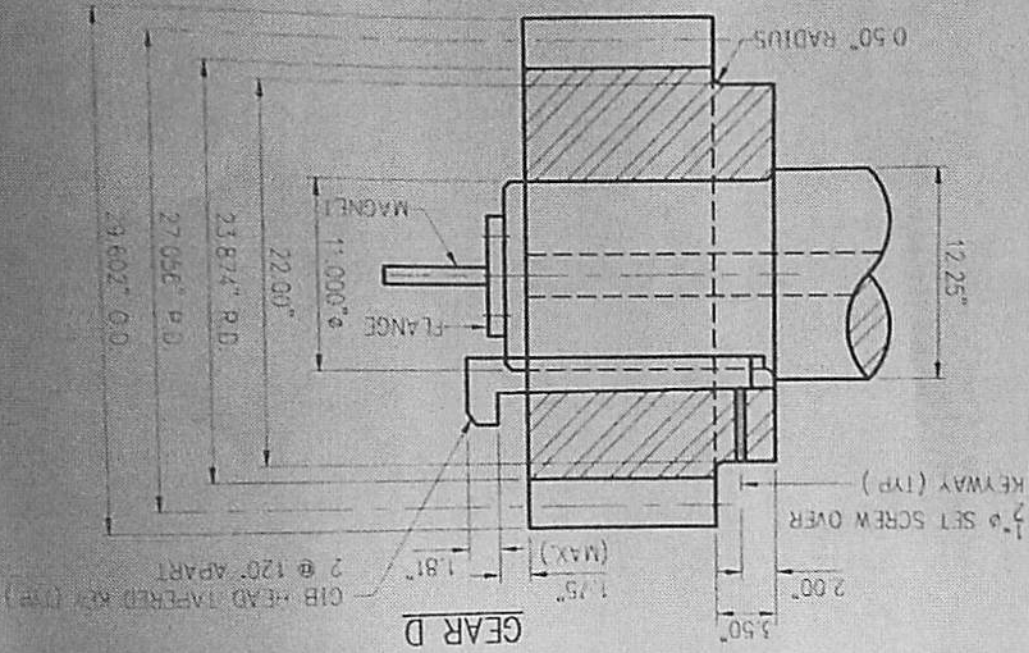
PILOT BUSHINGS, OF AS APPROVED BY T (DEEPEST IN THE H LOCKING ASSEMBLY THEIR REQUIRED LE ADDITION TO THE THE INSTALLATION MANUFACTURER AN THAT ALL DEVICES SCREWS TENSIONE THE TORQUE RATE

TO EQUALIZE THE FOR THE TWO CO SHALL BE ADJUST PRIOR TO INSTAL ONCE ALL SCREW MANUFACTURER'S SCREWS AND

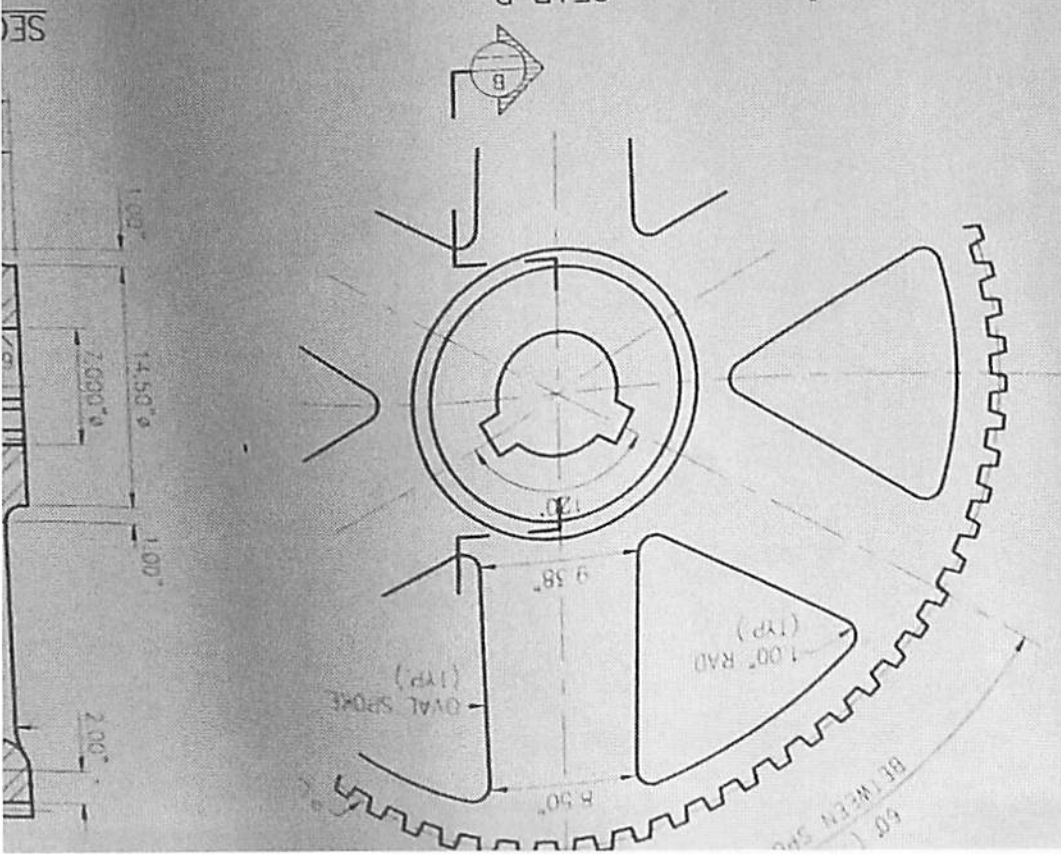
| |
|-----------------|
| 3/4" x 1 1/4" |
| 7/8" x 1 15/16" |
| ASSEMBLY (3) |
| 1/4" x 15/16" |
| SHAFT |



PINION A



GEAR D



SECTION

6.316"

77.516"