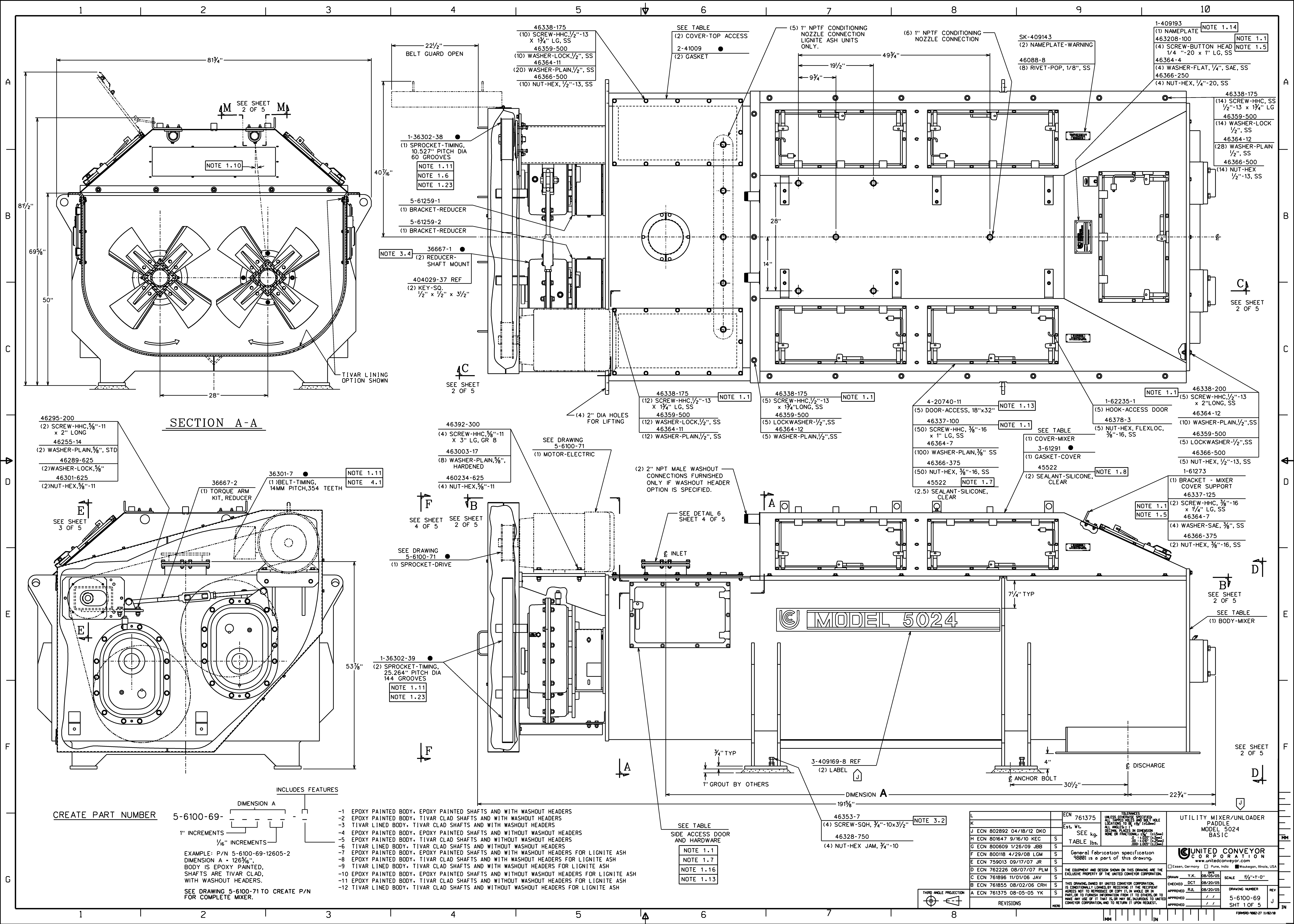




NOTE:
FOR PADDLE ARRANGEMENT
AND SWEEP RADIUS, REFER
TO TABLE ON DRAWING 5-6100-71.

SEE DRAWING
5-6100-71

NOTE 1.1
NOTE 1.3

SEE DRAWING
5-6100-71

NOTE 1.1
NOTE 1.3

NOTE 4.1C

SEE TABLE
(1) SHAFT-PADDLE,
RIGHT SIDE

SEE DETAIL 1

2-62264-2
(6) PLATE-BACKING,

1-460482-2-0207-024-16-1
(6) BOLT-U, $\frac{3}{8}$ "-16 x $2\frac{1}{2}$ " LG, SS

NOTE 1.5

46364-7
(12) WASHER-SAE, $\frac{3}{8}$ ", SS

46366-375
(12) NUT-HEX, $\frac{3}{8}$ "-16, SS

2-62264-3
(6) PLATE-BACKING,

SEE SHEET
3 OF 5

SEE SHEET
3 OF 5

SECTION B-B

SEE TABLE
(1) SHAFT-PADDLE,
LEFT SIDE

NOTE 4.1C

VIEW D-D

NOTE 1.10
SEE TABLE
WASHOUT HEADER AND
NOZZLES
SEE TABLE AND DETAIL-5
SUPPORT-COVER

NOZZLE- $\frac{1}{4}$ " NPT (REF)
SEE SECTION M-M
NOTE 1.12

SEE DETAIL 4

36"
CLEARANCE REQUIRED
TO REMOVE PADDLE SHAFT
WITH PADDLES REMOVED.

SEE DRAWING
5-6100-71
REDUCING BUSHING

NOTE 1.12

SEE DRAWING
5-6100-71
NOZZLE

NOTE 1.12

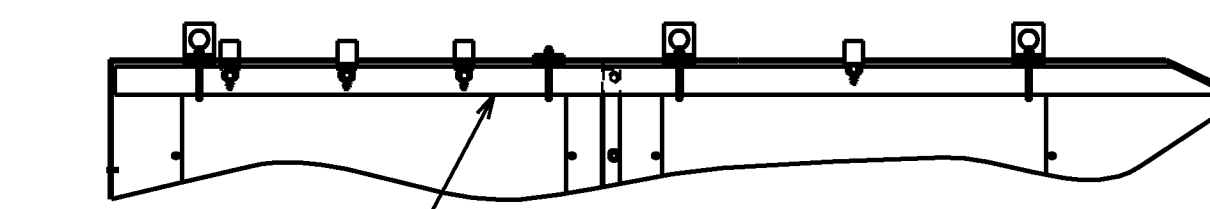
DETAIL 4

SCALE: 3"=1'-0"

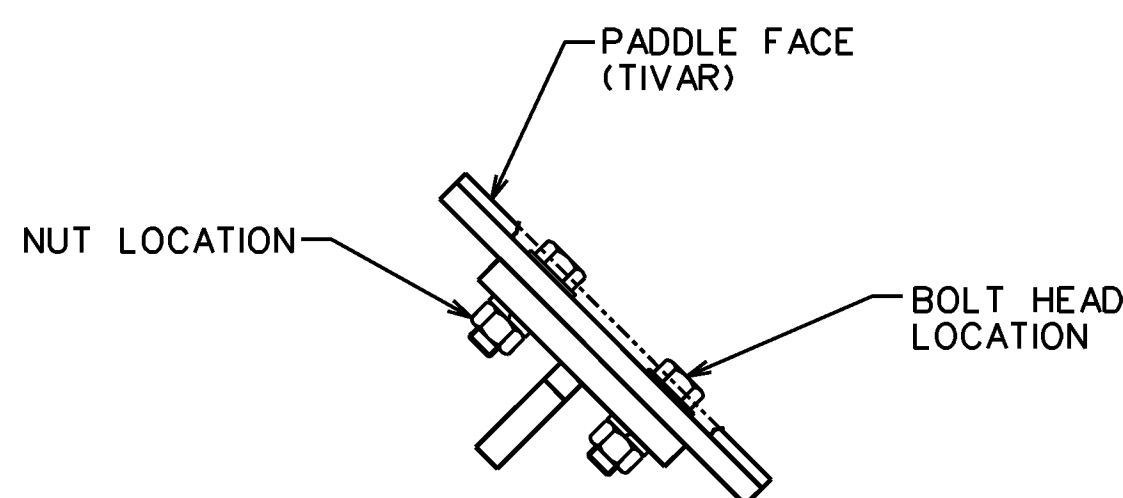
SECTION M-M

NOZZLE ORIENTATION
SCALE: NONE

NOTE 1.22



DETAIL 5
MIXER COVER SUPPORT
SEE TABLE



DETAIL 1 PADDLE MOUNTING

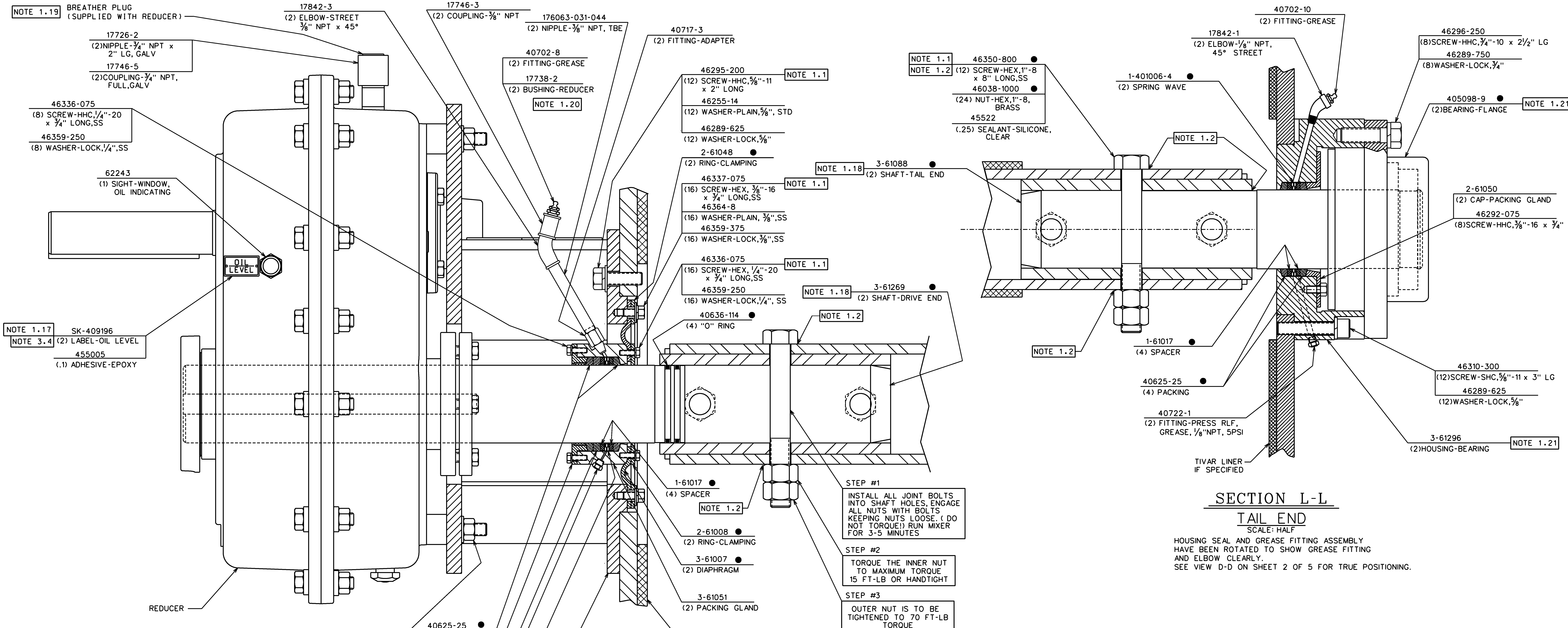
PADDLE MOUNTING HARDWARE IS FURNISHED WITH PADDLES,
SEE DRAWING 5-6100-71

NOTE 1.3
NOTE 1.4

SEE DRAWING
5-6100-71
(1) APRON ASSEMBLY
46337-100
NOTE 1.1
(6) SCREW-HHC, $\frac{3}{8}$ "-16
x 1" LG, SS
46364-7
(12) WASHER-PLAIN, $\frac{3}{8}$ " SS
46366-375
(6) NUT-HEX, $\frac{3}{8}$ "-16, SS
45522
NOTE 1.5
(.3) SEALANT-SILICONE,
CLEAR

SECTION C-C

L	ECN	761375	UNLESS OTHERWISE SPECIFIED: ALL TAPPED HOLES AND DRILL HOLE LOCATIONS TO BE AS SHOWN ALL DIMENSIONS IN INCHES NONE OR FRACTIONAL: 1/16, 1/8, 1/4, 3/8, 1/2, 5/8, 3/4, 7/8, 1, 1 1/4, 1 1/2, 1 3/4, 2, 2 1/4, 2 1/2, 2 3/4, 3, 3 1/4, 3 1/2, 3 3/4, 4, 4 1/4, 4 1/2, 4 3/4, 5, 5 1/4, 5 1/2, 5 3/4, 6, 6 1/4, 6 1/2, 6 3/4, 7, 7 1/4, 7 1/2, 7 3/4, 8, 8 1/4, 8 1/2, 8 3/4, 9, 9 1/4, 9 1/2, 9 3/4, 10	UTILITY MIXER/UNLOADER PADDLE MODEL 5024 BASIC
K	Est. Wt.	SEE kg.	General fabrication specification 98001 is a part of this drawing.	UNITED CONVEYOR CORPORATION www.unitedconveyor.com
J	TABLE lbs.			
H				
G				
F				
E				
D				
C				
B				
A	SEE SHT 1 OF 5			
REVISIONS				
THIRD ANGLE PROJECTION				
DRAWN Y.K.		DATE 08/20/03	SCALE 1/2"=1'-0"	
CHECKED DCT		DATE 08/20/03		
APPROVED RJA		DATE 08/20/03		
APPROVED		DATE		
APPROVED		DATE		
DRAWING NUMBER		5-6100-69	REV	J
SHT 2 OF 5				
FORM 900-1002-27 11/02/10				



SECTION K-K
DRIVE END

SCALE: HALF

HOUSING SEAL AND GREASE FITTING ASSEMBLY HAVE BEEN ROTATED TO SHOW GREASE FITTING AND ELBOW CLEARLY.
SEE SECTION N-N ON SHEET 3 OF 5 FOR TRUE POSITIONING.

SECTION E-E

SCALE: 3"=1'-0"

NOTE 1.11

VIEW P-P

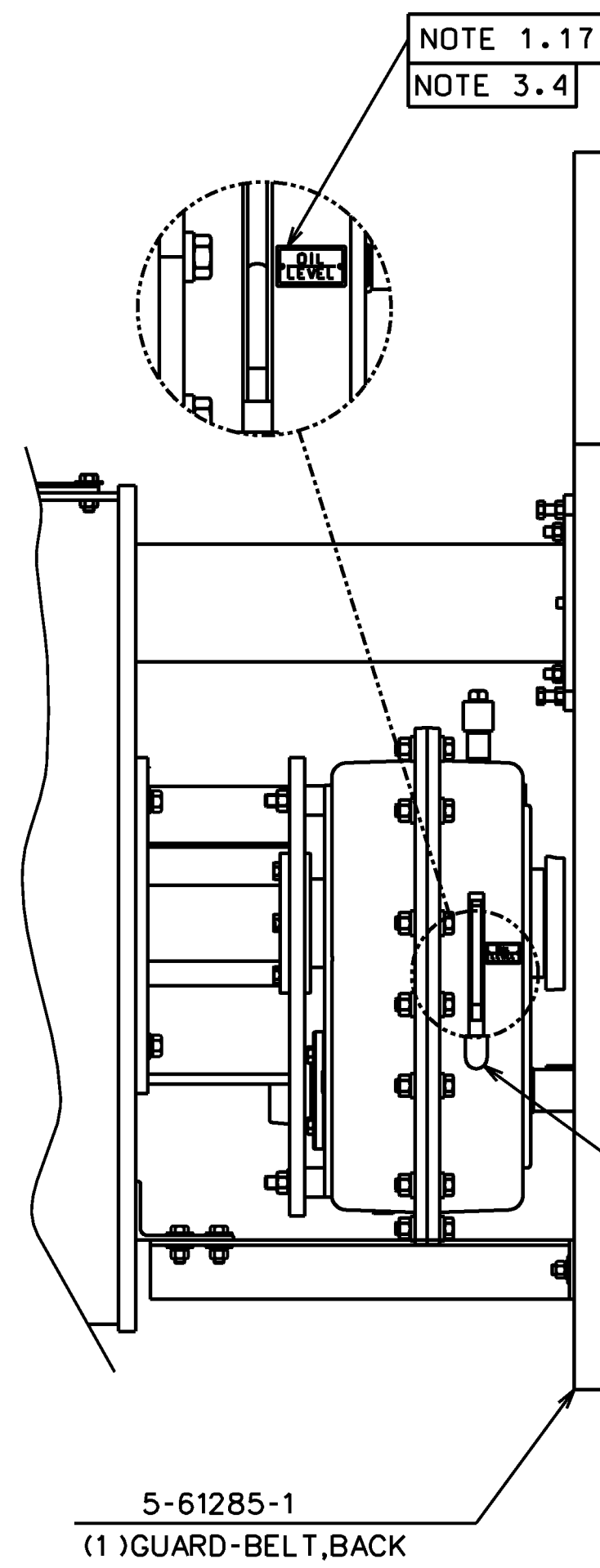
SCALE: 3"=1'-0"

NOTE 1.15

SECTION N-N

SCALE: 3"=1'-0"

L	ECN	761375	UNLESS OTHERWISE SPECIFIED, ALL DIMENSIONS ARE IN INCHES. DIMENSIONS IN PARENTHESES ARE IN MILLIMETERS. DIMENSIONS IN PARENTHESES ARE FOR INFORMATION ONLY.	UTILITY MIXER/UNLOADER PADDLE MODEL 5024 BASIC
K	Est. Wt.	SEE kg.		
J	TABLE lbs.			
H				
G				
F				
E				
D				
C				
B				
A	SEE SHT 1 OF 5			
REVISIONS				
THIRD ANGLE PROJECTION				
GENERAL FABRICATION SPECIFICATION 98001 is a part of this drawing.				
THE EQUIPMENT AND DESIGN SHOWN ON THIS DRAWING ARE THE EXCLUSIVE PROPERTY OF THE UNITED CONVEYOR CORPORATION.				
THIS DRAWING, OWNED BY UNITED CONVEYOR CORPORATION, IS CONDITIONALLY LOANED BY RECEIVING IT TO THE RECIPIENT. IT IS NOT TO BE REPRODUCED OR COPIED IN WHOLE OR IN PART, OR TO FURNISH INFORMATION FROM IT TO OTHERS, OR TO MAKE ANY USE OF IT THAT IS, OR MAY BE, INJURIOUS TO UNITED CONVEYOR CORPORATION, AND TO RETURN IT UPON REQUEST.				
DRAWN Y.K. DATE 08/05/03 SCALE 1/2"=1'-0"				
CHECKED DCT 08/20/03				
APPROVED JAL 08/20/03				
APPROVED				
APPROVED				
DRAWING NUMBER 5-6100-69				
SHT 3 OF 5				
REV J				
FORM 502-27 11/02/00				



46294-150
(2) SCREW-HHC,
1/2"-13x1/2"
46289-500
(2) WASHER-LOCK, 1/2"
46255-12
(2) WASHER-PLAIN, 1/2"

46294-150
(2) SCREW-HHC,
1/2"-13x1/2"
46289-500
(2) WASHER-LOCK, 1/2"
46255-12
(4) WASHER-PLAIN, 1/2"
46301-500
(2) NUT-HEX, 1/2"-13

5-61286
(1) GUARD-BELT, HINGED

46292-075
(2) SCREW-HHC,
3/8"-16x3/4" LG
46289-375
(2) WASHER-LOCK, 3/8"
46255-7
(2) WASHER-SAE, 3/8"

VIEW F-F
BELT GUARD ATTACHMENT

46292-125
(3) SCREW-HHC,
3/8"-16x1/4" LG
46289-375
(3) WASHER-LOCK, 3/8"
46255-7
(6) WASHER-SAE, 3/8"
46301-375
(3) NUT-HEX, 3/8"-16

46294-150
(2) SCREW-HHC,
1/2"-13x1/2"
46289-500
(2) WASHER-LOCK, 1/2"
46255-12
(2) WASHER-PLAIN, 1/2"

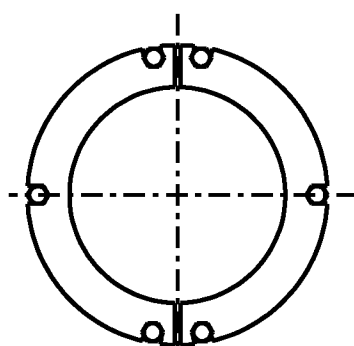
5-61287
(1) GUARD-BELT, FRONT

46292-075
(8) SCREW-HHC,
3/8"-16x3/4" LG
46289-375
(8) WASHER-LOCK, 3/8"
46255-7
(8) WASHER-SAE, 3/8"

5-61285-2
(1) GUARD-BELT, BACK

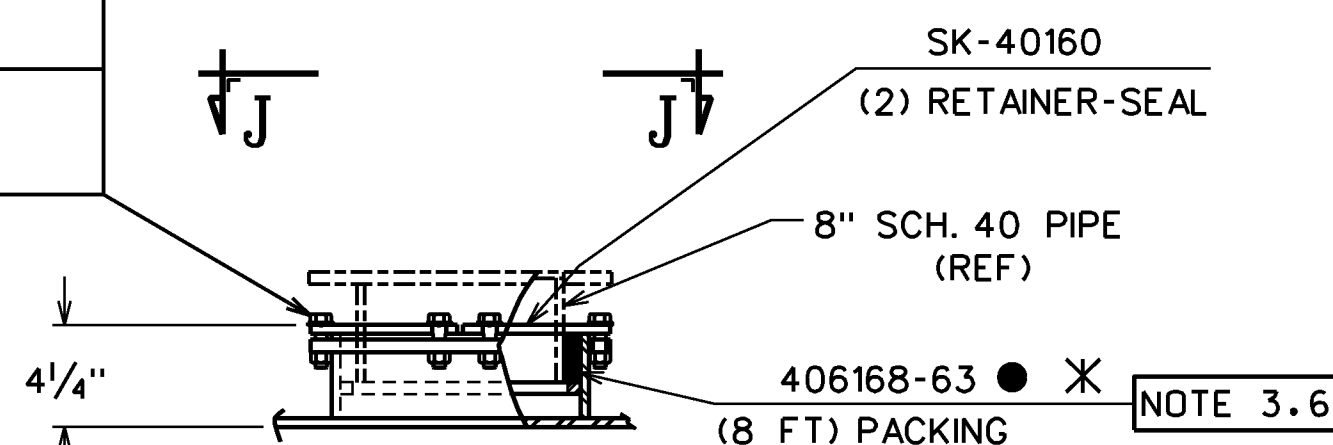
2-62241-3
(2) SUPPORT-BELT GUARD

46294-150
(4) SCREW-HHC,
1/2"-13x1/2"
46289-500
(4) WASHER-LOCK, 1/2"
46255-12
(8) WASHER-PLAIN, 1/2"
46301-500
(4) NUT-HEX, 1/2"-13

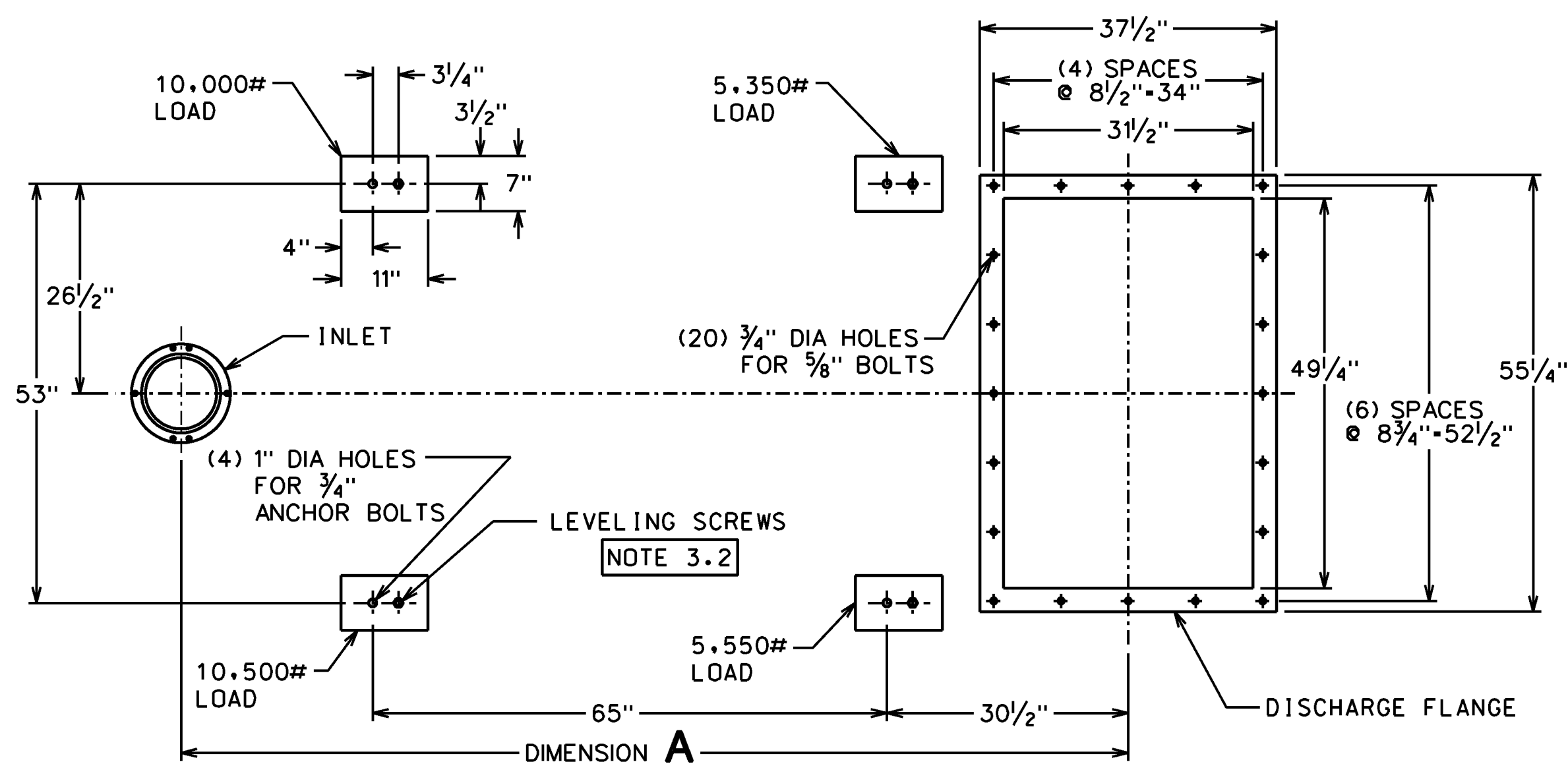


VIEW J-J

46294-175
(6) SCREW-HHC, 1/2"-13
x 1 3/4"
46255-11
(6) WASHER-SAE, 1/2"
46301-500
(6) NUT-HEX, 1/2"-13



DETAIL 6
INLET CONNECTION
NOTE 2.1



PLAN OF ANCHOR BOLT LOCATION
AND SUPPORT LEG LOADING
SCALE: 3/4"=1'-0"

MANUFACTURING NOTES:

- ANTI-SEIZE LUBRICANT P/N 45532-1 MUST BE APPLIED TO ALL THREADED FASTENERS WHICH ARE EXPOSED TO THE INSIDE OF THE MIXING TROUGH.
- COAT TAIL END JOINT OF STUB SHAFT AND ALL BOLT AND NUT JOINTS ON HOLLOW SQUARE TUBING WITH SEALANT AT ASSEMBLY: (2) PLACES FOR STUB SHAFTS, AND (24) PLACES FOR BOLT HEADS AND NUTS.
- ASSEMBLE PADDLES TO THE SHAFTS BEFORE THE SHAFTS ARE MOUNTED INSIDE THE MIXER.
- ATTACH PADDLES TO BRACKETS SO THAT THE BOLT HEAD IS ON THE FACE SIDE OF THE PADDLE.
- APPLY SEALANT P/N 45522 TO THREADS.
- PRIOR TO ASSEMBLY, ENSURE THAT THE TAPERED SURFACES OF THE BUSHING AND SPROCKET ARE CLEAN. DO NOT USE LUBRICANT ON THE BOLTS, BUSHING SPROCKET, OR SHAFT. USE ADJUSTING BOLTS TO ALIGN THE BUSHING/SPROCKET ASSEMBLY WITH THE OTHER SPROCKETS AND TIGHTEN THE NUTS EVENLY AND PROGRESSIVELY TO 60 FT-LB ONCE ALIGNED.
- APPLY 3/16" BEAD OF SEALANT ALONG THE PERIMETER OF ACCESS DOOR FLANGE FACES. WIPE OFF EXCESS SEALANT.
- INSTALL GASKET BETWEEN THE MATING FLANGES OF THE COVER AND THE BODY. APPLY SEALANT BETWEEN THE DISCHARGE END PLATE OF THE BODY AND THE MATING SIDE OF THE COVER AND AT THE GASKET JOINTS. WHEN SEALANT SETS UP, REMOVE EXCESS WITH A SHARP KNIFE SO SURFACE IS SMOOTH AROUND THE FLANGE PERIMETER.
- TIGHTEN OUTER NUT TO 300 FT-LB. THE INNER NUT HAS BEEN TIGHTENED TO A PREDETERMINED TORQUE VALUE. DO NOT TAMPER WITH OR TIGHTEN THE IDLER BUSHING BEARING; THIS MAY CAUSE PREMATURE FAILURE.
- DIRECT THE WASHOUT HEADER NOZZLES TO POINT TO THE MIXER SHAFT CENTERLINES. APPLY SEALANT TO MATING SURFACES OF WASHOUT HEADER FLANGES AND COVER. TACK WELD FLANGES OF WASHOUT HEADERS TO MIXER COVER TO PREVENT ROTATION OF HEADERS AFTER NOZZLE ALIGNMENT.
- REFER TO UTILITY PADDLE MIXER/UNLOADER INSTALLATION, OPERATION AND MAINTENANCE INSTRUCTION MANUAL UCC P/N 91147 FOR PROPER SPROCKET ALIGNMENT AND TIMING BELT ADJUSTMENT.
- UNLESS OTHERWISE SPECIFIED, USE PIPE JOINT COMPOUND UCC P/N 45529 ON ALL PIPE THREAD CONNECTIONS.
- ADJUST LATCHES AS NECESSARY TO PROVIDE EVEN CONTACT IN ALL LATCHING LOCATIONS. DOORS HAVE SHIM WASHERS UNDER THE LATCHING LEVER TO MAKE ADJUSTMENTS.
- STAMP EQUIPMENT IDENTIFICATION INFORMATION ON PLATE.
- INSTALL TORSION CABLES WITH (1) 180° TWIST AS SHOWN.
- OPPOSITE DOOR MUST BE INSTALLED WITH THE HINGES TOWARD THE DRIVE END OF MIXER.
- PLACE OIL LEVEL LABELS ON GEAR REDUCERS BEHIND THE OIL INDICATING GAGE AND NEXT TO THE OIL WINDOW SIGHT AS APPROPRIATE. LEVEL MARK MUST BE EVEN WITH THE CORRECT OIL LEVEL PLUG. REFER TO THE MANUFACTURER'S INSTALLATION AND MAINTENANCE MANUAL FOR REDUCER SIZE 315, MOUNTED IN THE PROPER POSITION. AT A 25:1 REDUCTION RATIO AND A OUTPUT SPEED OF 24 RPM FOR LOCATION OF THE CORRECT OIL LEVEL PLUG.
- ANTI-SEIZE LUBRICANT P/N 45532-1 MUST BE APPLIED TO SHAFT ON BOTH DRIVE AND TAIL ENDS OF MACHINE.

- USE THE BREATHER PLUG SUPPLIED WITH THE REDUCER TO PLUG THE OIL FILL.
- INSERT 3/8" NPT NIPPLE, 3/8" NPT STREET ELBOW AND 3/8" FNPT COUPLING BETWEEN GREASE FEEDER AND ITS BASE COUPLER.
- APPLY DUNES TAN PAINT TO TAIL END BEARING HOUSINGS, AND BEARING CAPS AFTER ASSEMBLY. MASK THREADED HOLES AND GREASE FITTINGS.
- ALIGN NOZZLES SUCH THAT THE FAN SPRAY PATTERN IS IN LINE WITH THE SPRAY HEADER.
- PLACE SPROCKET ON THE MATING HUB ALIGNING THE DRILLED HOLES ON THE SPROCKET TO THE THREADED HOLES IN THE BUSHING FLANGE. INSERT ALL THE CAP SCREWS AND LOCK WASHERS AND FINGER-TIGHTEN. THEN TIGHTEN ALL CAP SCREWS EVENLY TO 30 FT-LB.

SHIPPING NOTES:

- ASSEMBLED, EXCEPT FOR THE INLET PIPE PACKING. ITEMS INDICATED *, SHOWN IN DETAIL 6 WHICH IS KITTED.

INSTALLATION NOTES:

- REFER TO UTILITY PADDLE MIXER/UNLOADER INSTALLATION, OPERATION AND MAINTENANCE INSTRUCTION MANUAL UCC P/N 91147.
- INSTALL UTILITY PADDLE MIXER/UNLOADER PARALLEL TO FLOOR WITHIN ±1/4" USING THE LEVELING SCREWS ON MIXER FOOT PADS.
- FOR WATER SUPPLY LINE SIZE SEE CONTROL DIAGRAM.
- FILL REDUCERS WITH OIL BEFORE OPERATING. UNIT IS SHIPPED WITHOUT OIL IN GEAR REDUCERS. OIL IS NOT FURNISHED BY UCC. SEE MANUFACTURER'S INSTALLATION AND MAINTENANCE MANUAL FOR REDUCER SIZE 315, MOUNTED IN THE PROPER POSITION. AT A 25:1 REDUCTION RATIO AND A OUTPUT SPEED OF 24 RPM FOR OIL TYPE, AMOUNT, AND FILLING INSTRUCTIONS.
- UNIT IS SHIPPED FULLY GREASED. EXTRA GREASE IS NOT FURNISHED BY UCC. SEE UCC INSTRUCTION MANUAL P/N 91147 FOR GREASE TYPE AND LUBRICATING INSTRUCTIONS.
- PACKING INSTALLATION
 - WRAP THE PACKING AROUND THE O.D. OF INLET PIPE.
 - SQUARE CUT THE PACKING ENDS.
 - PACK THE "CUT TO THE LENGTH" PACKING INTO SEALING AREA.
 - INSTALL THE SEAL RETAINER

OPERATION NOTES:

- BEFORE TURNING ON THE MIXER:
 - READ THE UCC INSTRUCTION MANUAL P/N 91147.
 - CHECK TIMING BELT TENSION AND RE-TIGHTEN IT IF NECESSARY.
 - CHECK THE POSITION OF PADDLES - LOOKING FROM DISCHARGE END OF THE TROUGH (USE HINGED DOOR) THE LAST PADDLE OF ONE SHAFT MUST POINT TO 12:00 O'CLOCK WHILE THE LAST PADDLE OF THE OTHER SHAFT MUST POINT TO 6:00 O'CLOCK.
 - VERIFY THAT THE MOTOR SHAFT ROTATES IN THE DIRECTION SHOWN ON DRAWING.

MAINTENANCE NOTES:

- INDICATES ITEMS RECOMMENDED FOR SPARE PARTS.

L	ECN	761375	UNLESS OTHERWISE SPECIFIED, ALL DIMENSIONS ARE IN INCHES. DIMENSIONS IN PARENTHESES ARE IN MILLIMETERS. DIMENSIONS IN PARENTHESES ARE IN MILLIMETERS. DIMENSIONS IN PARENTHESES ARE IN MILLIMETERS.	UTILITY MIXER/UNLOADER PADDLE MODEL 5024 BASIC
K	Est. Wt.	SEE kg.	TABLE lbs.	
J				
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C				
B				
A	SEE SHT 1 OF 5			
REVISIONS		General fabrication specification 98001 is a part of this drawing. THE EQUIPMENT AND DESIGN SHOWN ON THIS DRAWING ARE THE EXCLUSIVE PROPERTY OF THE UNITED CONVEYOR CORPORATION. THIS DRAWING, OWNED BY UNITED CONVEYOR CORPORATION, IS CONDITIONALLY LOANED BY RECEIVING IT. THE RECIPIENT AGREES NOT TO REPRODUCE OR COPY IT, IN WHOLE OR IN PART, OR TO FURNISH INFORMATION FROM IT TO OTHERS, OR TO MAKE ANY USE OF IT THAT IS, OR MAY BE, INJURIOUS TO UNITED CONVEYOR CORPORATION, AND TO RETURN IT UPON REQUEST.		
THIRD ANGLE PROJECTION 		UNITED CONVEYOR CORPORATION www.unitedconveyor.com Essen, Germany Pune, India Waukegan, Illinois, USA DRAWN Y.K. DATE 08/05/03 SCALE 1/2"=1'-0" CHECKED DCT 08/20/03 APPROVED R.L. 08/20/03 APPROVED / / / APPROVED / / / DRAWING NUMBER 5-6100-69 SHT 4 OF 5 REV J FORM 900-9802-27 11/02/10		

