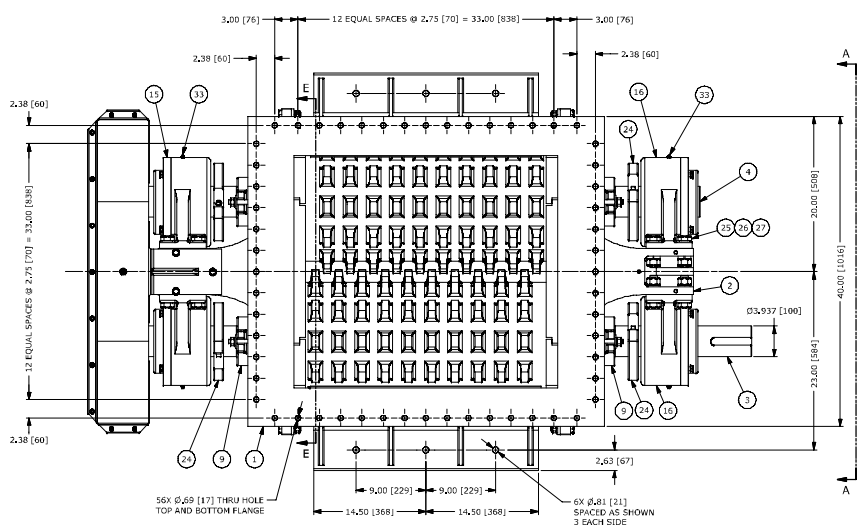
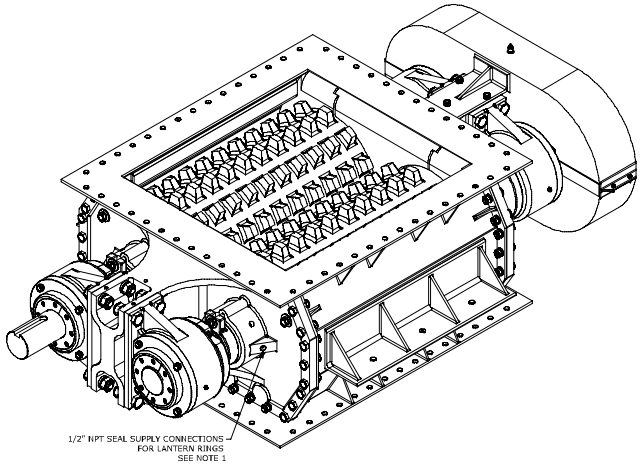
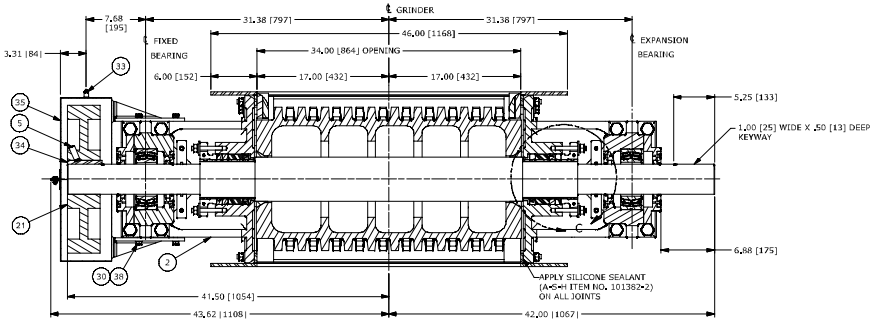


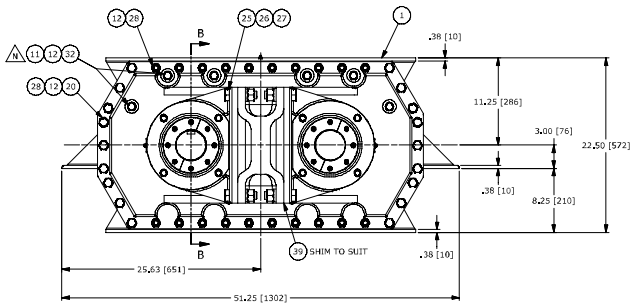


PARTS LIST			
PART No.	QTY	ITEM NUMBER	DESCRIPTION
1	1	14890-3	HOUSING FABRICATION
2	2	14891-1	BEARING SUPPORT
3	1	A-14892-4	DRIVING SHAFT ASSEMBLY
4	1	A-14892-3	DRIVEN SHAFT ASSEMBLY
5	4	106249	SOCKET SET SCREW
6	2	14894	OUTER WEAR SEGMENT
7	2	14894-1	OUTER WEAR SEGMENT
8	2	14894-2	CENTER WEAR SEGMENT
9	4	A-14895	FOLLOWER ASSEMBLY
10	8	101207	5/8-1.144.00 THREADED STUD SS
11	20	101323	5/8" USS PLAIN WASHER
12	96	100368	5/8" LOCK WASHER, STEEL
13	8	100474	5/8-11 HEX NUT, SS
14	4	100506	O-RING
15	2	A-224738	FIXED BEARING
16	2	A-224739	EXPANSION BEARING
20	36	100963	5/8"-11 X 2 1/2" HEX HEAD BOLT
21	2	15005	TIMING GEAR
23	4	15007	WEAR RING
24	4	A-15008	FLINGER ASSEMBLY
25	16	100837	HEX HEAD CAP SCREW
26	16	100454	1-8 HEX NUT, STEEL
27	16	100354	1" LOCK WASHER, STEEL
28	76	100475	5/8-11 HEX NUT
30	6	100359	1/2" LOCK WASHER, STEEL
32	12	100952	5/8-11 x 2.25 HEX HEAD CAP SCREW
33	5	101114	1/8" NPT GREASE FITTING
34	2	X15S-4-1/2	KEY
35	1	15009	GEAR GUARD
38	6	100847	1/2-13 x 1 3/4" HEX HEAD CAP SCREW
39	4	A-224869	SHIM SET
43	4	A-15010-1	PACKING ASSEMBLY

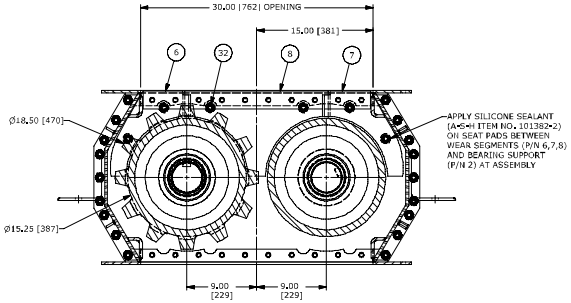
TAG 210



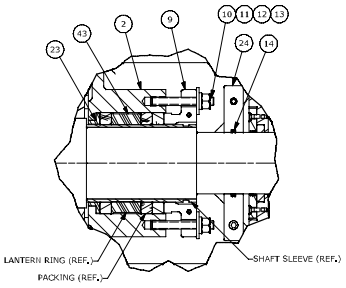
SECTION B-B



VIEW A-A

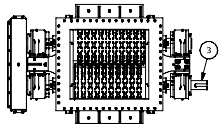


SECTION E-E

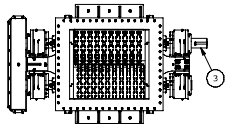


DETAIL C
SCALE 1 / 3

PLAN KEY



ASSEMBLY No. A-14889-10
(AS SHOWN)



ASSEMBLY No. A-14889-11
(OPPOSITE HAND)

NOTES:
1. SEAL AIR OR WATER:
WET SERVICE: PROVIDE 2 GPM OF CLEAR WATER FOR EACH SEAL @ 4 PSI TO 9 PSI ABOVE HYDROSTATIC HEAD OF GRINDER
DRY SERVICE: PROVIDE 4 CFM OF CLEAN DRY AIR FOR EACH SEAL @ 5 PSI.
2. WR^2 = 525 LB-FT^2 (INCLUDES FOR SPROCKET).
3. ASSEMBLY WEIGHT IS APPROXIMATELY 5225 LBS.
4. DIMENSIONS ARE SHOWN IN INCHES [mm].
5. MAXIMUM PARTICLE SIZE THAT WILL PASS THROUGH IS 2" x 2 1/2" x 2 3/4"

ASSEMBLY No.: PLAN KEY

REV NO	DATE	REV BY	C-D BY	ENG APP	REVISION RECORD
N	2/10/2011	DBH	WHH		CHG QTY FT #11 FROM 8 TO 20; A-19/3
M	5/11/09	DBH	CMH	CHH	GENERAL REVISION, UPDATED HARDWARE QTY
L	12/20/06	WHH	BSS	BSS	CHANGED PART NO'S FOR ITEM-3 & 4
K	5/1/06	WHH	BSS	BSS	REDRAWN IN CAD, CHNG BEARING ASSYS

DRAWN BY: JFH 12/16/96
CHECKED BY:
MECH.
STRUCT.
ELECT.

ALLEN-SHERMAN-HOFF
A DIVISION OF DIAMOND POWER INTERNATIONAL, INC.
MALVERN, PENNSYLVANIA, U.S.A.

THIS DRAWING AND ALL INFORMATION HEREON IS THE PROPERTY OF DIAMOND POWER INTERNATIONAL, INC. AND MUST NOT BE MADE PUBLIC, COPIED OR USED IN ANY WAY WHATSOEVER TO DATA OWNER'S UNLESS EXPRESSED UNDER CONTRACT PROVISIONS. IT IS LOANED SUBJECT TO RETURN ON DEMAND.

CLINKER GRINDER 2'-10" ASSEMBLY

BRAIDED PACKING, MANGANESE STEEL ROLLS
HEAVY DUTY HOPPER WET SERVICE

PROJECT: STD
DWG NO: E-1011
REV: N
SCALE: 1/6
SHEET 1 OF 1

211167-01-E250-01

EQUIPMENT LIST

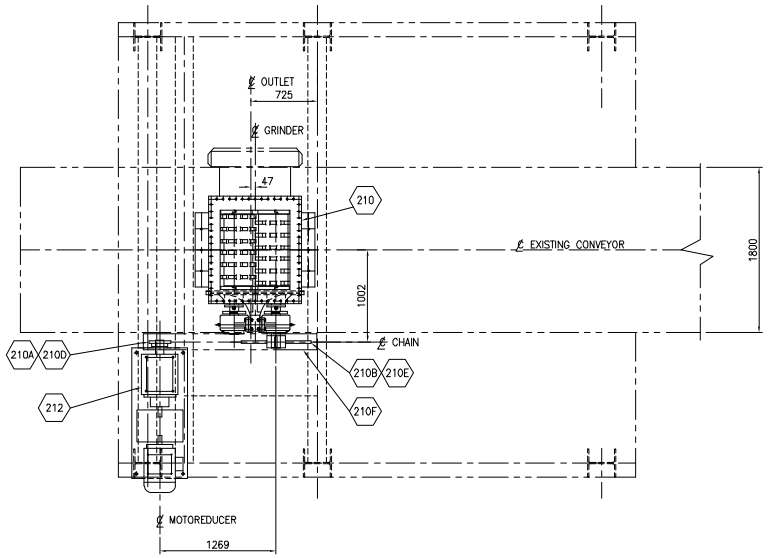
TAG NO.	QTY	ITEM NO.	DESCRIPTION	DWG NO.
210	2	A-14889-11	2'-10" DOUBLE ROLL GRINDER	E-1011
210A	2	SP228231	DRIVE SPROCKET	-
210B	2	SP228205	DRIVEN SPROCKET	-
210C	2	SP228944	ROLLER CHAIN	-
210D	2	X151-0-4-1/2	KEY	-
210E	2	X155-0-5	KEY	-
210F	2	SP228945	CHAIN CASING	-
210G	4	17527	1/4" RUBBER GRINDER GASKET	-
212	2	SP228928	GEAR REDUCER & MOTOR	-
215	2	SP228940	GRINDER INLET ADAPTOR PLATE	-
215A	2	SP228941	GRINDER INLET ADAPTOR GASKET	-
216	2	SP228942	GRINDER DISCHARGE ADAPTOR CHUTE	-
216A	2	SP228943	GRINDER DISCHARGE GASKET	-
220	1-LOT	SP	HARDWARE	SEE B/M BELOW

TAG 220 BILL OF MATERIAL HARDWARE

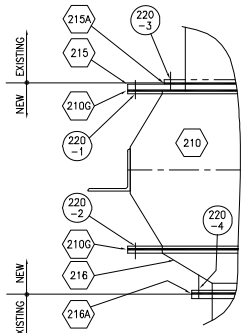
PART NO.	QTY	DESCRIPTION
220-1	120	M16x2x60 LG HEX HEAD CAP SCREW, M16x2 HEX NUT (GRINDER FLG)
220-2	120	M16x2x60 LG HEX HEAD CAP SCREW, M16x2 HEX NUT (GRINDER FLG)
220-3	50	M20x2.5x70 LG STUD, M20x2.5 HEX NUT & M20 LOCKWASHER (INLET CHUTE)
220-4	50	M20x2.5x50 LG STUD, M20x2.5 HEX NUT (DISCH CHUTE)

B/M NOTES

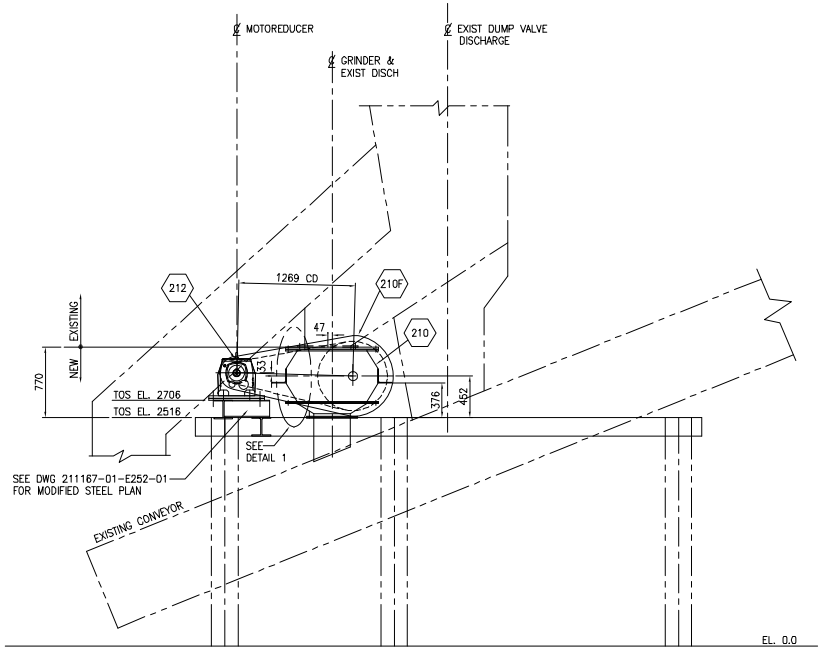
1. BOLTS & THREADED RODS SHALL BE ASTM-A307 GRADE A
2. NUTS SHALL BE ASTM-A563 GRADE A
3. PLAIN WASHERS TYPE A PER ANSI B27.2
4. LOCKWASHERS PER ANSI B27.1
5. ALL ITEMS ARE TO BE TAGGED PRIOR TO SHIPMENT WITH THE PART NUMBER INDICATED IN B/M ABOVE.



PLAN VIEW



DETAIL 1 -01



ELEVATION

(F) = FURNISHED BY ALLEN-SHERMAN-HOFF
(NF) = NOT FURNISHED BY ALLEN-SHERMAN-HOFF

REFERENCES

DWG.	TITLE

REVISIONS

REV.	DATE	REV. BY	CKD. BY	ENG. APP.	ENG. APP.	REVISION RECORD

DRAWN BY	PMD	8/23/11
CHECKED BY		
MECH. APP	BSS	8/23/11
STRUCT. APP.		
ELECT. APP.		

Allen-Sherman-Hoff
A Division of Diamond Power International, Inc.
EXTON, PENNSYLVANIA, U.S.A.

©2010 DIAMOND POWER INTERNATIONAL, INC. ALL RIGHTS RESERVED.
THIS DRAWING IS THE PROPERTY OF DIAMOND POWER INTERNATIONAL, INC. (DPI) AND ITS USE IS GOVERNED BY THE TERMS AND CONDITIONS OF A WRITTEN AGREEMENT BETWEEN DPI AND THE USER OR GRANTS A NON-EXCLUSIVE LICENSE TO USE, REPRODUCE AND DISTRIBUTE THIS DRAWING SOLELY FOR THE MAINTENANCE, REPAIR AND OPERATION, AND FOR SOLICITING BIDS FOR THE ERECTION OF, THE EQUIPMENT DISCLOSED HEREIN.

ARRANGEMENT OF NEW DOUBLE ROLL GRINDER
AES MARITZA EAST 1 LIMITED
STARA ZAGORA, BULGARIA
UNITS 1 & 2
SHEET 1 OF 1

SCALE 1=20
CONTRACT 21116701
DWG 211167-01-E250-01
REV