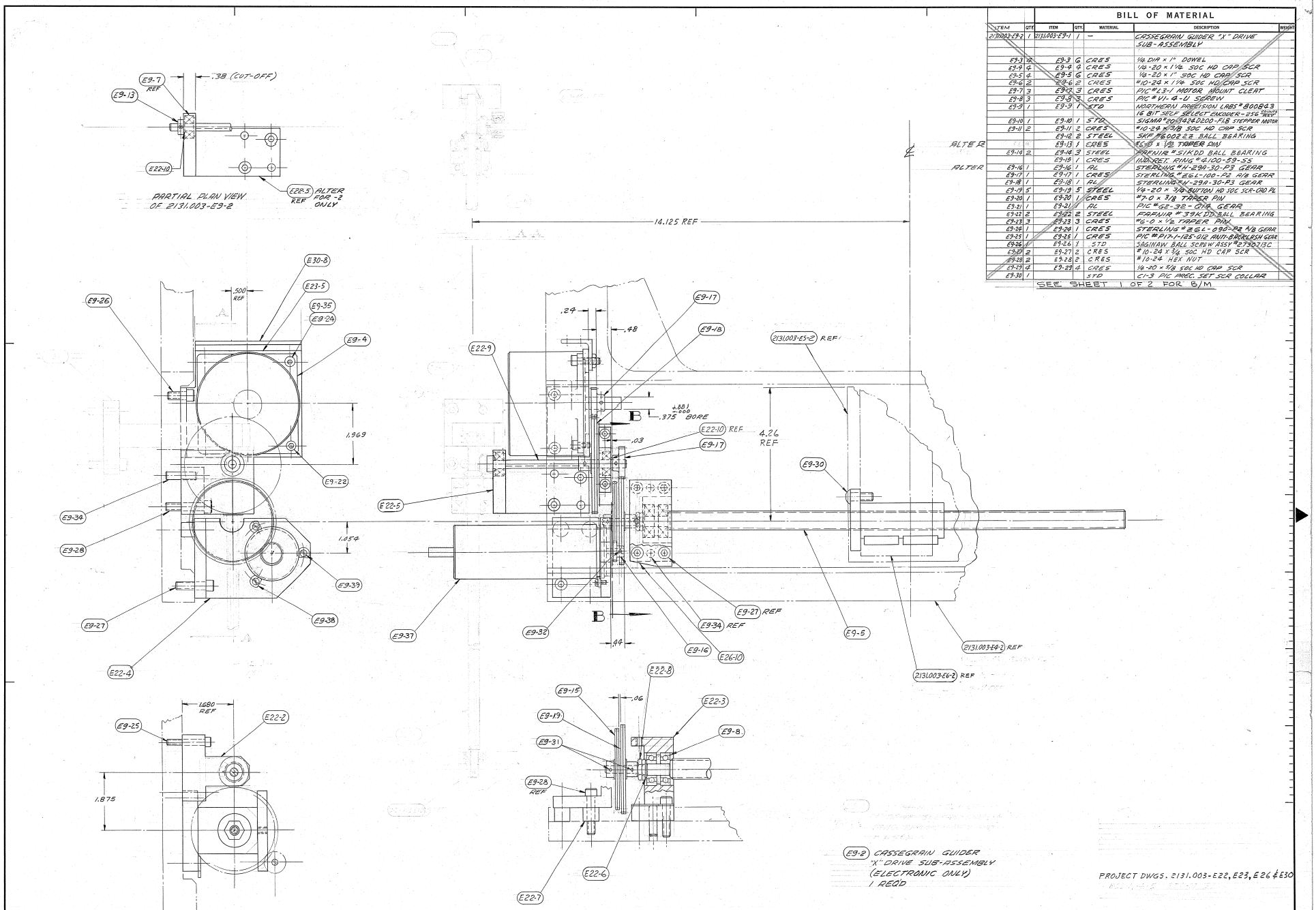

BILL OF MATERIAL

ITEM	QTY	ITEM	QTY	MATERIAL	DESCRIPTION	WEIGHT
2131.003-E9-2	1	2131.003-E9-1	1	—	CASSEGRAIN GUIDER "X" DRIVE SUB-ASSEMBLY	
E9-3	6	E9-3	6	CRES	1/4 DIA x 1" DOWEL	
E9-9	4	E9-9	6	CRES	1/4-20 x 1 1/4 SOC HD CAP SCR	
E9-5	4	E9-5	6	CRES	1/4-20 x 1" SOC HD CAP SCR	
E9-6	2	E9-6	2	CRES	#10-24 x 1 1/4 SOC HD CAP SCR	
E9-7	3	E9-7	3	CRES	PIC #L3-1 MOTOR MOUNT CLEAT	
E9-8	3	E9-8	3	CRES	PIC #V1-4-U SCREW	
E9-9	1	E9-9	1	STD	NORTHERN PRECISION LABS #800B43 1/8 BIT SELF SELECT ENCODER-256 PULSE REV	
E9-10	1	E9-10	1	STD	SIGMA #2093424D200-F1B STEPPER MOTOR	
E9-11	2	E9-11	2	CRES	#10-24 x 3/8 SOC HD CAP SCR	
		E9-12	2	STEEL	SKF #60022Z BALL BEARING	
		E9-13	1	CRES	#5-0 x 1/2 TAPER PIN	
E9-14	2	E9-14	3	STEEL	FAFNIR #51KDD BALL BEARING	
		E9-15	1	CRES	NORDEX #1/4 x 1/4 x 1/4 - 59-55	
E9-16	1	E9-16	1	AL	STERLING #N-290-30-P3 GEAR	
E9-17	1	E9-17	1	CRES	STERLING #E6L-100-P2 A/B GEAR	
E9-18	1	E9-18	1	AL	STERLING #W-290-30-P3 GEAR	
E9-19	5	E9-19	5	STEEL	1/4-20 x 3/4 BUTTON HD SOC SCR-CRD PL	
E9-20	1	E9-20	1	CRES	#7-0 x 7/8 TAPER PIN	
E9-21	1	E9-21	1	AL	PIC #G2-32-Q1/4 GEAR	
E9-22	2	E9-22	2	STEEL	FAFNIR #39KDD BALL BEARING	
E9-23	3	E9-23	3	CRES	#6-0 x 1/2 TAPER PIN	
E9-24	1	E9-24	1	CRES	STERLING #2GL-090-P2 A/B GEAR	
E9-25	1	E9-25	1	CRES	PIC #R17-1-125-D12 ANTI-BACKLASH GEAR	
E9-26	1	E9-26	1	STD	SAGINAW BALL SCREW ASSY #2730210	
E9-27	2	E9-27	2	CRES	#10-24 x 3/4 SOC HD CAP SCR	
E9-28	2	E9-28	2	CRES	#10-24 HEX NUT	
E9-29	4	E9-29	4	CRES	1/4-20 x 5/8 SOC HD CAP SCR	
E9-30	1	E9-30	1	STD	C1-3 PIC PREC. SET SCR COLLAR	

SEE SHEET 1 OF 2 FOR B/M

PROJECT DWGS. 2131.003-E22, E23, E26 & E30

FOR ASSEMBLY SEE 2131.003-E1

LET.	REVISION	ECR	DATE	BY
B	ADDED SHEET 1 OF 2	3540	4/24/01	JBH
A	E9-2 ADDED		11/16/73	
	E9-1 WAS 2 REQD	1973	8-19-76	

TOLERANCES UNLESS OTHERWISE NOTED: DECIMAL DIMENSIONS .00 ± .010, .00 ± .005; FRACTIONAL DIMENSIONS UP TO 12" ± 1/64, OVER 12" ± 1/32, 60" & OVER ± 1/16; BREAK SHARP EDGES; ALL SURFACES TO HAVE 125 FINISH UNLESS OTHERWISE NOTED.

KITT PEAK NATIONAL OBSERVATORY
OPERATED BY THE ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY, INC. UNDER CONTRACT WITH NATIONAL SCIENCE FOUNDATION

150" TELESCOPE — REF. FAE 1301

NAME: CASSEGRAIN GUIDER "X" DRIVE SUB-ASSEMBLY

SCALE: FULL — PRINT ISSUED

DESIGNED BY: E.G. — DATE: 7-7-71 — APPROVED BY: JS Neal — DATE: 11/16/73
DRAWN BY: J.B.H. — DATE: 4-24-01 — APPROVED BY: — DATE:
CHECKED BY: — DATE: — APPROVED BY: — DATE:

DRAWING NUMBER: 2131.003-E9 — SHEET 2 OF 2 — REV. B

FAE 11-16-73

AAA DESIGN

9/99 DISTERRON-POST CLEARPRINT 2020