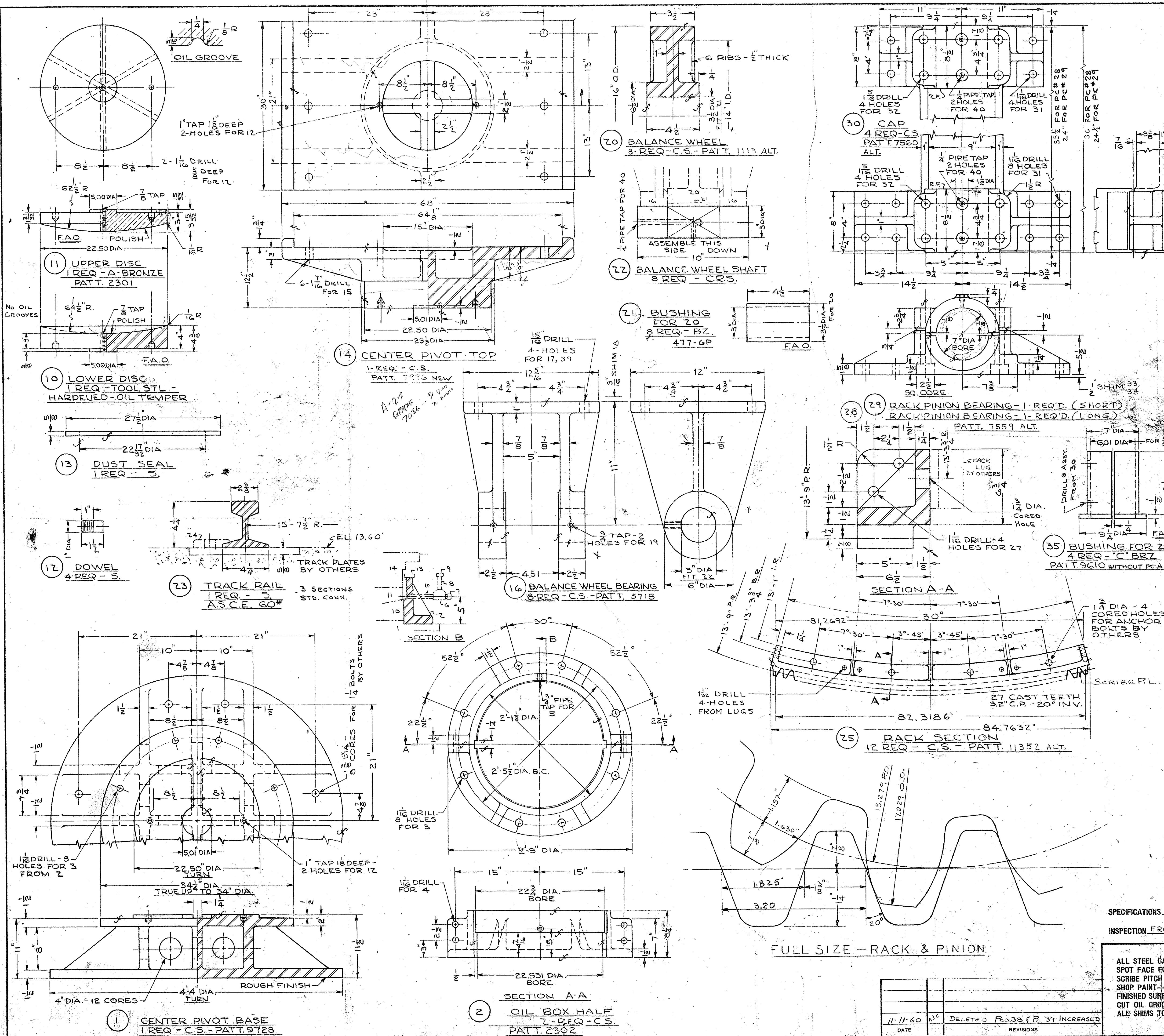


PC. No.	NAME	QTY.	MATL.	PATT.	REMARKS
1	CENTER PIVOT BASE	1	C.S.	9728	
2	OIL BOX HALF	2	C.S.	2302	
3	BOLT FOR 1 & 2	8	S.		T.B. LIST
4	BOLT FOR 2	4	S.		T.B. LIST
5	NIPPLE FOR 2	1	S.		3/4" x 6" STD. BLACK
6	TEE FOR 5	1	M.I.		3/4" STD.
7	PLUG FOR 6	1	M.I.		3/4" STD.
8	NIPPLE FOR 6	1	S.		3/4" x 3" STD. BLACK
9	CAP FOR 8	1	M.I.		3/4" STD.
10	LOWER DISC	1	302L STEEL	HARDEN	-OIL TEMP.
11	UPPER DISC	1	A.Bz.	2301	
12	DOWEL PIN FOR 11-14	4	S.		SEE DETAIL
13	DUST SEAL	1	S.		
14	CENTER PIVOT TOP	1	C.S.	7996	NEW
15	BOLT FOR 14	6	S.		T.B. LIST
16	BALANCE WHEEL BRG.	8	C.S.	5718	
17	BOLT FOR 16	16	S.		T.B. LIST
18	SHIM FOR 16	sets	SHIM	125/16 x 12 x 1/8 - 1/16 - 1/32	
19	SET SCREW FOR 16	16	S.	HOLLOW	3/4" x 1/2" CUP POINT
20	BALANCE WHEEL	8	C.S.	1113	ALT.
21	BUSHING FOR 20	8	Bz.		477-GP
22	BALANCE W.H. SHAFT	8	C.R.S.		
23	TRACK RAIL	1	S.		A.S.C.E. 60#
24	RAIL CLIP FOR 23	18	Pr.	S.	CARNEGIE No. 103
25	RACK SECTION	12	C.S.	11352	ALT.
26					
27	BOLT FOR 25	24	S.		T.B. LIST
28	RACK PINION BEG.	1	C.S.	7559	ALT.
29	RACK PINION BRG.	1	C.S.	7559	ALT.
30	CAP FOR 28 & 29	4	C.S.	7560	ALT.
31	BOLT FOR 28 & 29	24	S.		T.B. LIST
32	BOLT FOR 28, 29 & 30	16	S.		T.B. LIST
33	SHIM FOR 28 & 29	sets	SHIM	22" x 8" x 1/4" - 1/8" - 1/16" - 1/32"	
34	SHIM FOR 28 & 29	sets	SHIM	29" x 8" x 1/4" - 1/8" - 1/16" - 1/32"	
35	BUSHING FOR 28 & 29	4	C.Bz.	9610	WITHOUT PC. A
36	LINER FOR 28-29-30-35	8	FIBER		9" x 1/4" x 2"
37					
38					
39	BOLT FOR 16	16	S.		T.B. LIST
40	LUB. FITTING	16			1/4" P.T. ALEMITE #1627A



S.O. D-7935 CONTRACT 8.11907

TURNING MACHINERY
ALLIGATOR RIVER SWING SPAN
OVER ALLIGATOR RIVER
TYRRELL-DARE COUNTY, N.C.

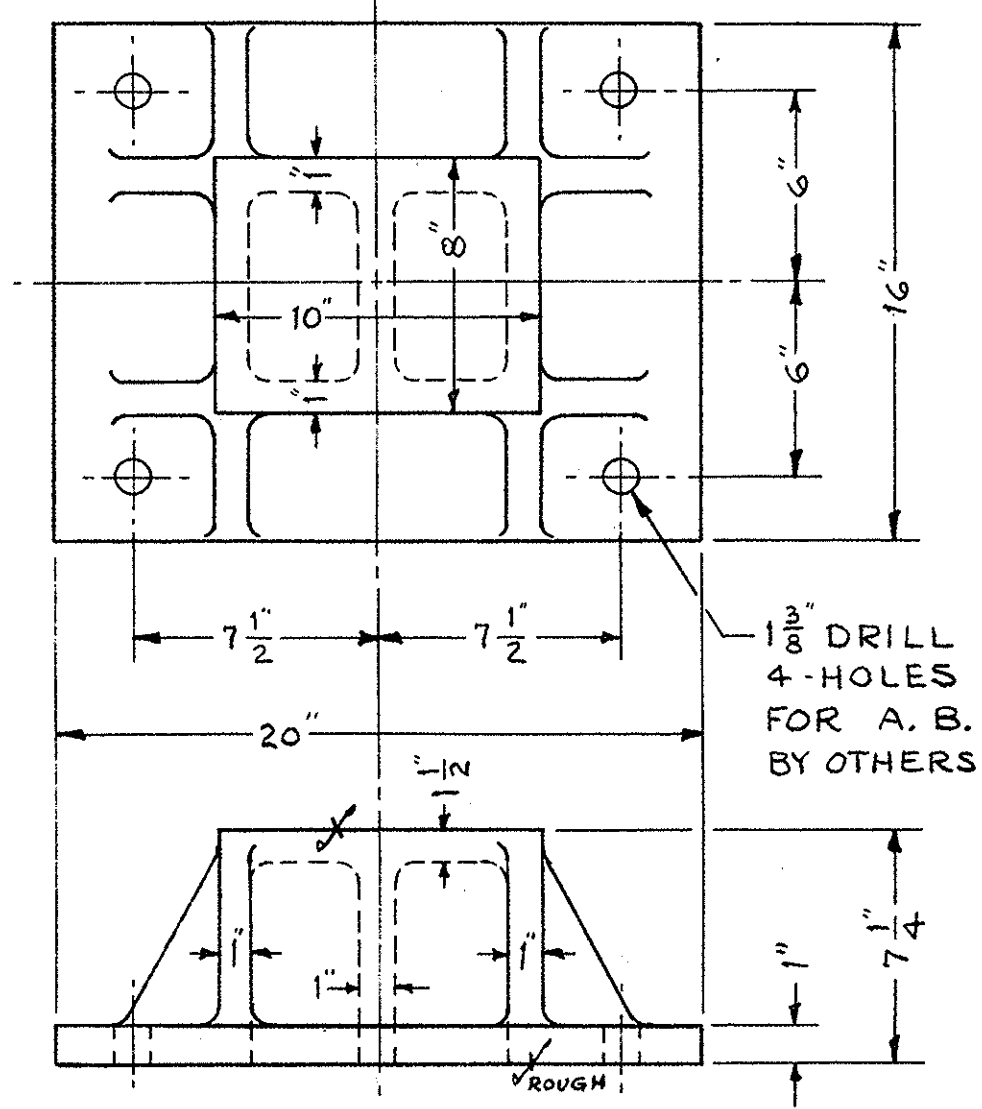
SPECIFICATIONS AASHTO & SPECIAL PROVISIONS
INSPECTION FROEHLING & ROBERTSON, INC.

THE EARLE GEAR AND MACHINE COMPANY
4707 TO 4715 STENTON AVENUE
PHILADELPHIA 44, PA.

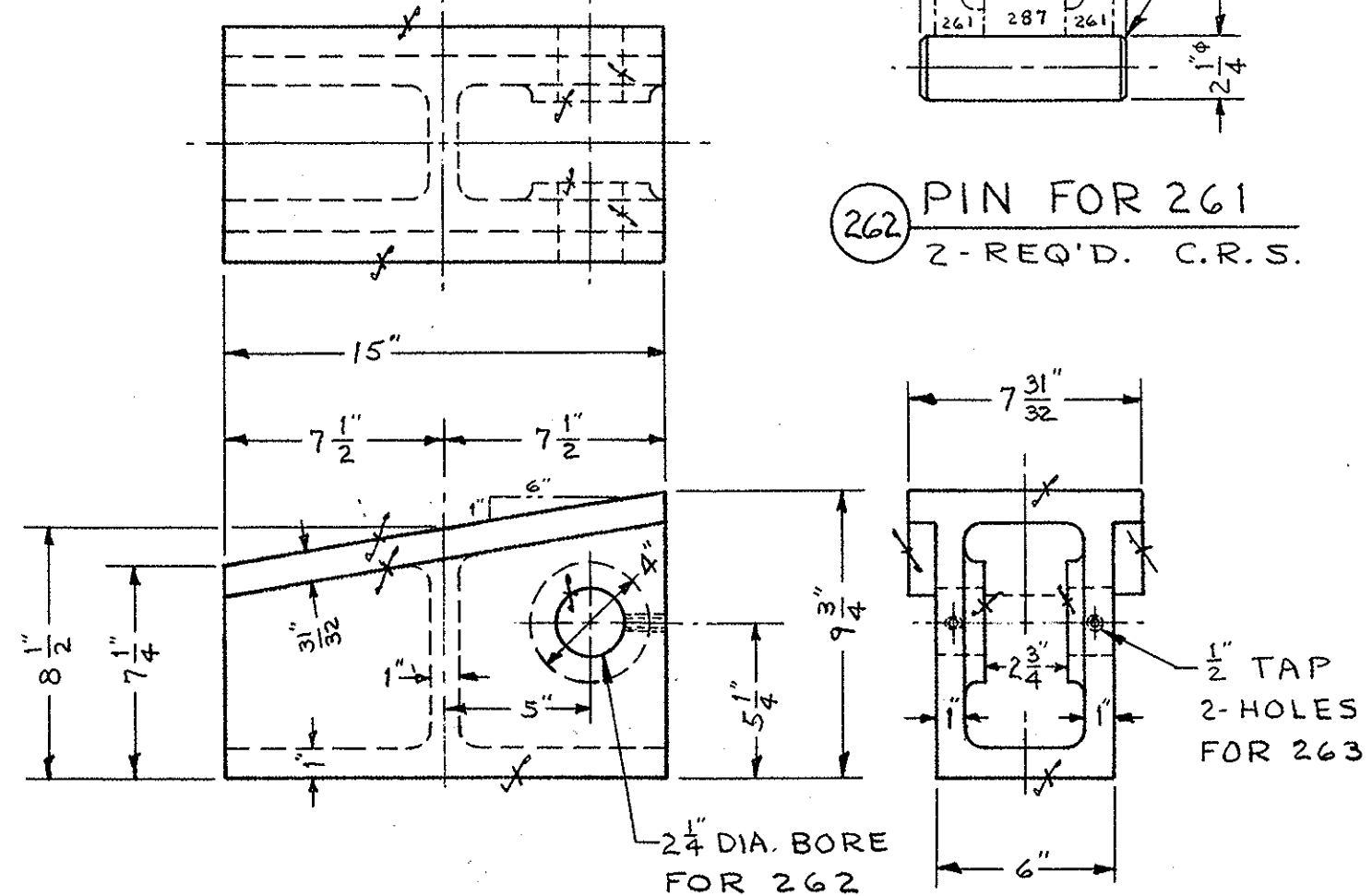
DRAWN BY A.J.C. 3-21-60 APPROVED BY S.H.C. 7-9-60
CHECKED BY G.P. 6-30-60 REV. APPROV.
DATE REV. APPROV.

SHEET 1 OF 11 DWG. NO. 6851E-30

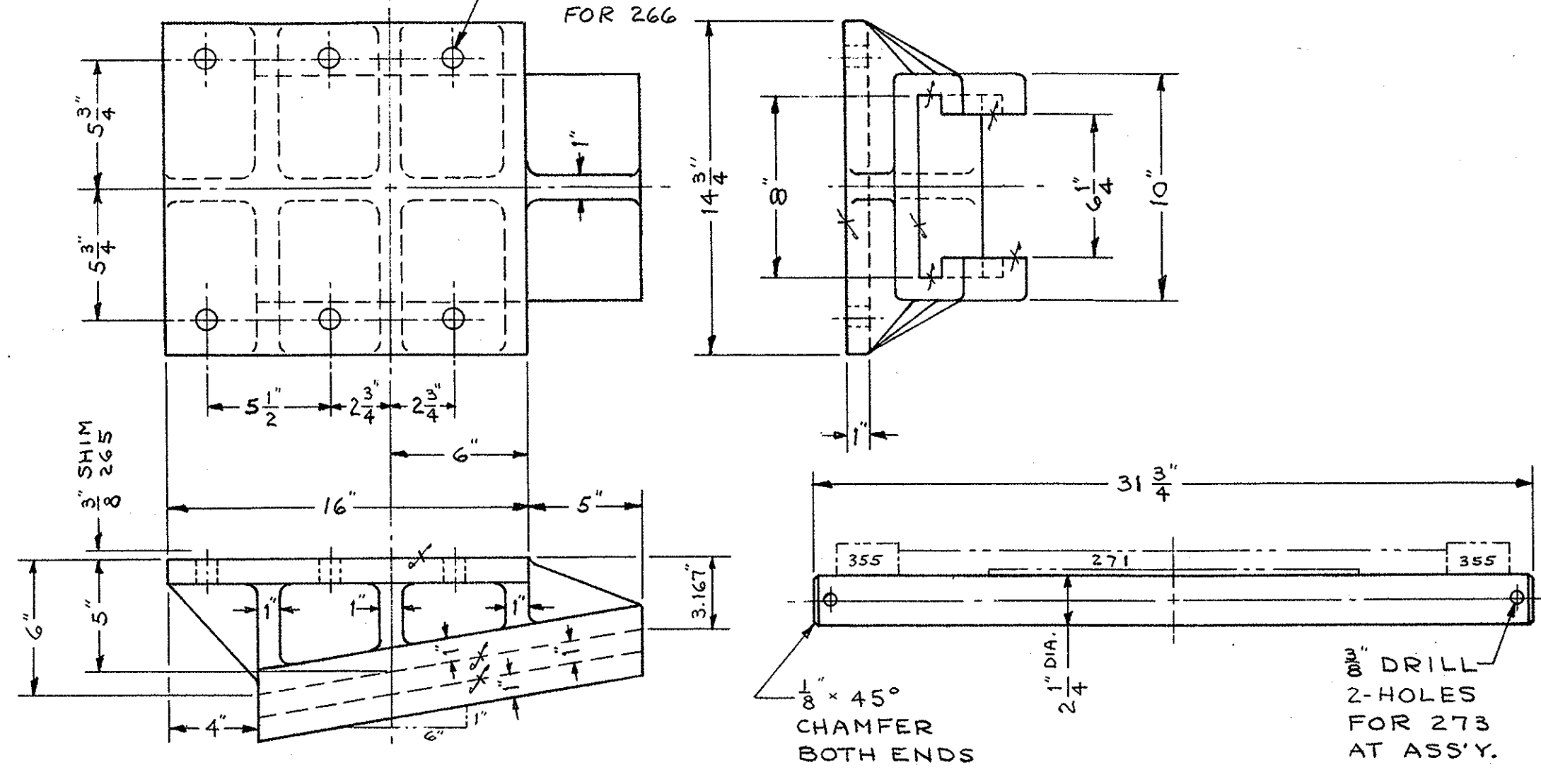
PC.	NAME	QTY.	MTL.	PATT.	REMARKS
260	CENTER WEDGE SEAT	2	C.S.	1558	ALT. HIGHT
261	CENTER WEDGE	2	C.S.	1518	ALT. 1/2 PIECE "A"
262	PIN FOR 261	2	C.R.S.		
263	SET SCREW FOR 261	4	S.	HOLLOW	1/2" φ × 1 1/2" LG. CUP-POINT
264	CENTER WEDGE GUIDE	2	C.S.	3549	ALT.
265	SHIM FOR 264	sets	S.	16" × 14 1/2" × 1/4" - 1/8" - 1/16" - 1/32"	
266	BASE BOLT FOR 264	12	S.		T.B. LIST
267					
268					
269					
270	END WEDGE SEAT	4	C.S.	11353	
271	END WEDGE	4	C.S.	11354	ALT.
272	PIN FOR 271	4	C.R.S.		
273	COTTER PIN FOR 272	8	S.	STD.	3/8" φ × 3 1/2" LG.
274	END WEDGE GUIDE	4	C.S.	2874	ALT.
275	SHIM FOR 274	sets	S.	17 1/2" × 15 1/2" × 1/4" - 1/8" - 1/16" - 1/32"	
276	BASE BOLT FOR 274	12	S.		T.B. LIST
277	BASE BOLT FOR 274	4	S.		T.B. LIST
278	SHIM FOR 270	4	S.	16" × 16" × 1" R.	
279					
280					
281	EWEDGE ANGLE FOR 274	4	S.		AS SHOWN
282	EWEDGE ANGLE FOR 274	4	S.		OPP. SHOWN
283	BOLT FOR 281 & 282	24	S.	HEX. HD. 3/4" φ × 1 3/4" LG. 1/2" W. NO NUT	
284	TIE BAR FOR 281 & 282	4	S.		
285	BOLT FOR 281, 282 & 284	8	S.	HEX. HD. CAP 3/4" φ × 2" LG. 1/2" W. & 1 NUT	
286					
287	C.W. EYE BAR	2	F.S.		R.H. THREADS
288	C.W. EYE BAR	2	F.S.		L.H. THREADS
289	SLEEVE NUT FOR 287 & 288	2	F.S.	HEX. 2 1/2" A.B. STYLE R.&L. THDS.	
290	NUT FOR 287	2	S.	HEX. 2 1/2" R.H. AMER. STD. HVY.	
291	NUT FOR 288	2	S.	HEX. 2 1/2" L.H. AMER. STD. HVY.	
292					
293	C.W. CONN. ROD	2	F.S.		R.H. THREADS
294	C.W. CONN. ROD	2	F.S.		L.H. THREADS
295	SLEEVE NUT FOR 293 & 294	2	F.S.	HEX. 2 1/2" A.B. STYLE R.&L. THDS.	
296	NUT FOR 293	2	S.	HEX. 2 1/2" R.H. AMER. STD. HVY.	
297	NUT FOR 294	2	S.	HEX. 2 1/2" L.H. AMER. STD. HVY.	
298	BUSHING FOR 294	2	BZ.	STD. BUNTING # I-5734 MAKES 2	
299					
300	C.W. CRANK	2	C.S.	7210	
301	KEY FOR 300	2	S.		KEY LIST
302	SET SCREW FOR 300	2	S.	HOLLOW	3/4" φ × 2" LG. CUP-POINT
303	C.W. CRANK PIN	2	S.	1040	
304	COTTER PIN FOR 303	2	S.	STD.	1/2" φ × 4" LG.
305	WASHER FOR 303 & 352	6	S.		
306					
307					
308					
309	LUB FITTING FOR 294	2	S.		ALEMITE # 1627-A



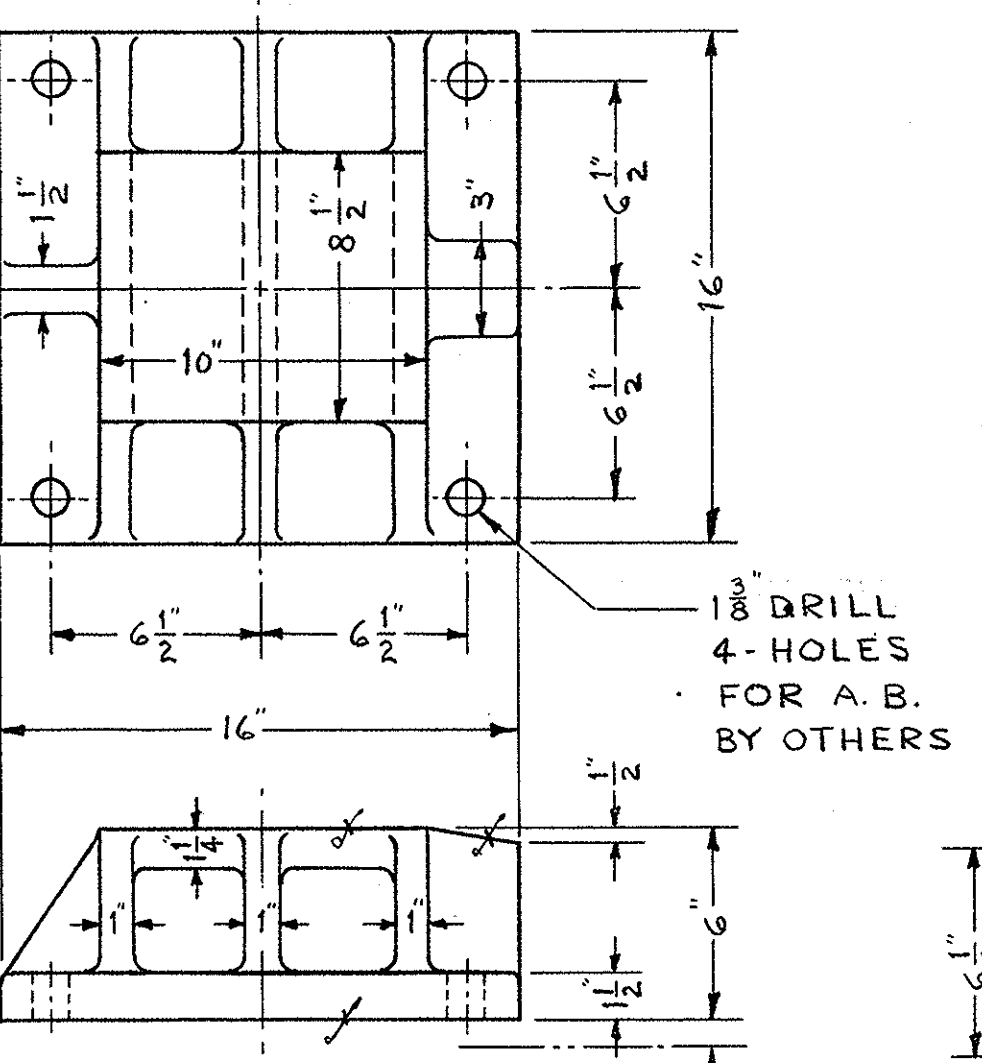
260 CENTER WEDGE SEAT
2-REQ'D. C.S. PATT. 1558 ALT.



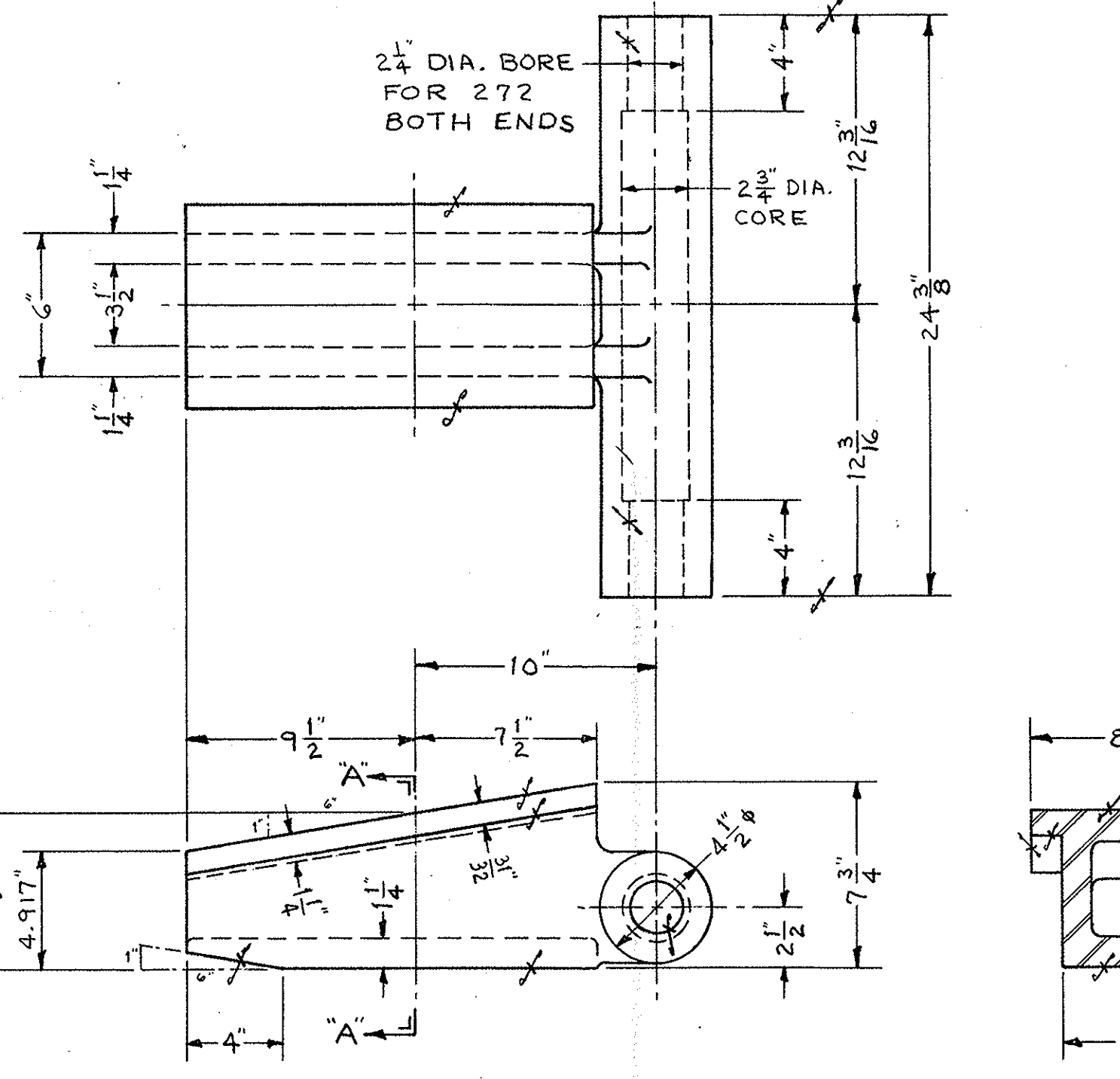
261 CENTER WEDGE
2-REQ'D. C.S. PATT. 1518 ALT. WITHOUT P.C. A



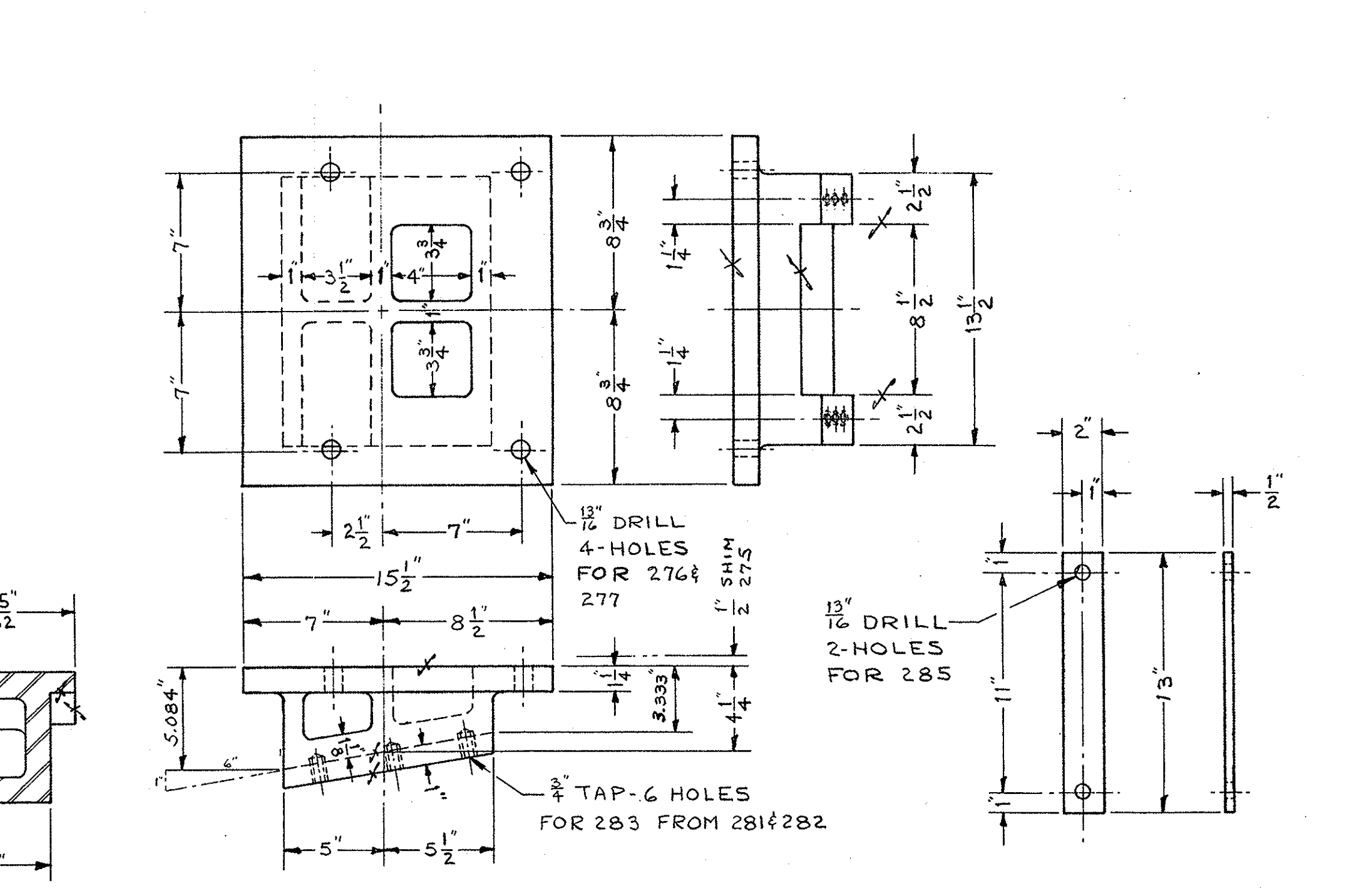
264 CENTER WEDGE GUIDE
2-REQ'D. C.S. PATT. 3549 ALT.



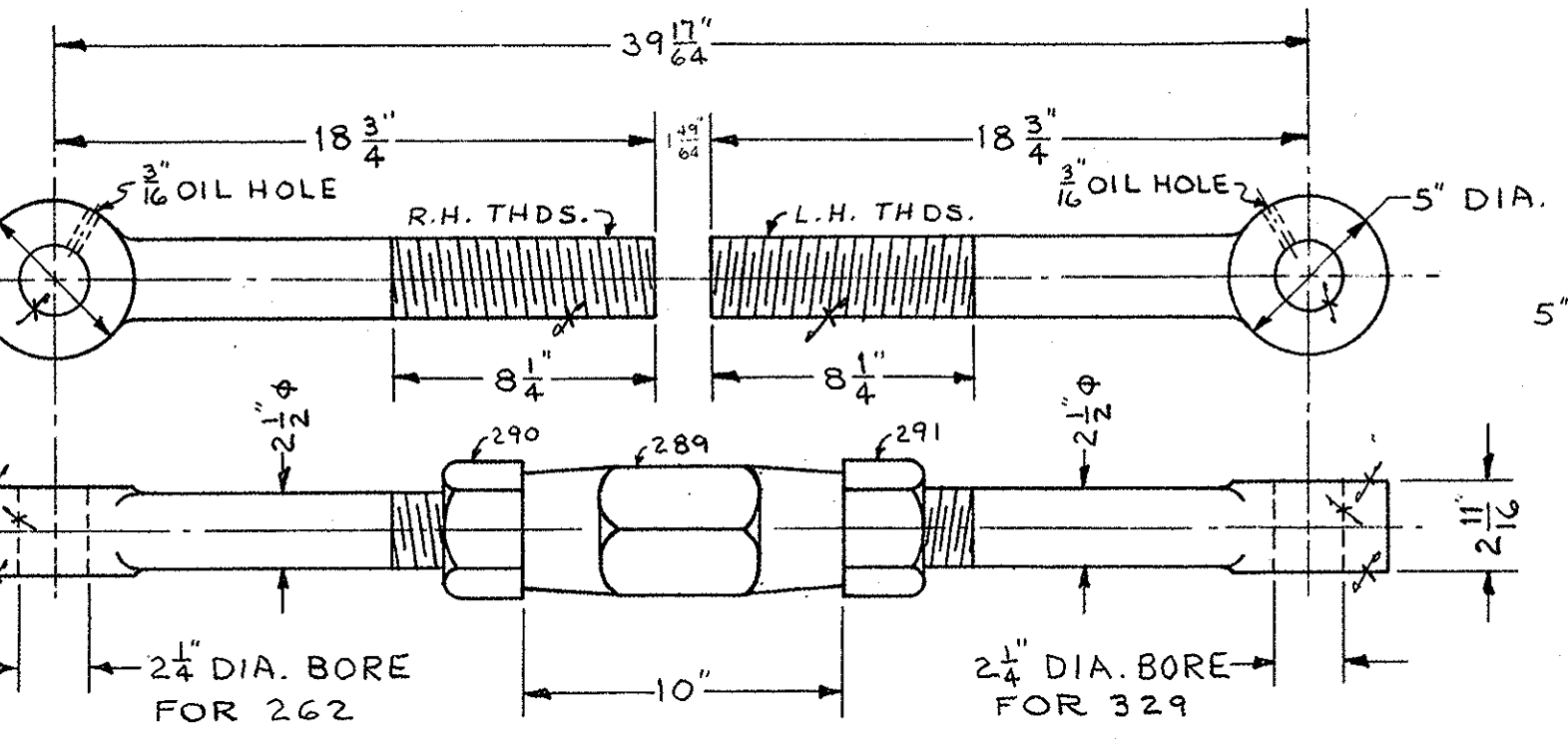
270 END WEDGE SEAT
4-REQ'D. C.S. PATT. 11353



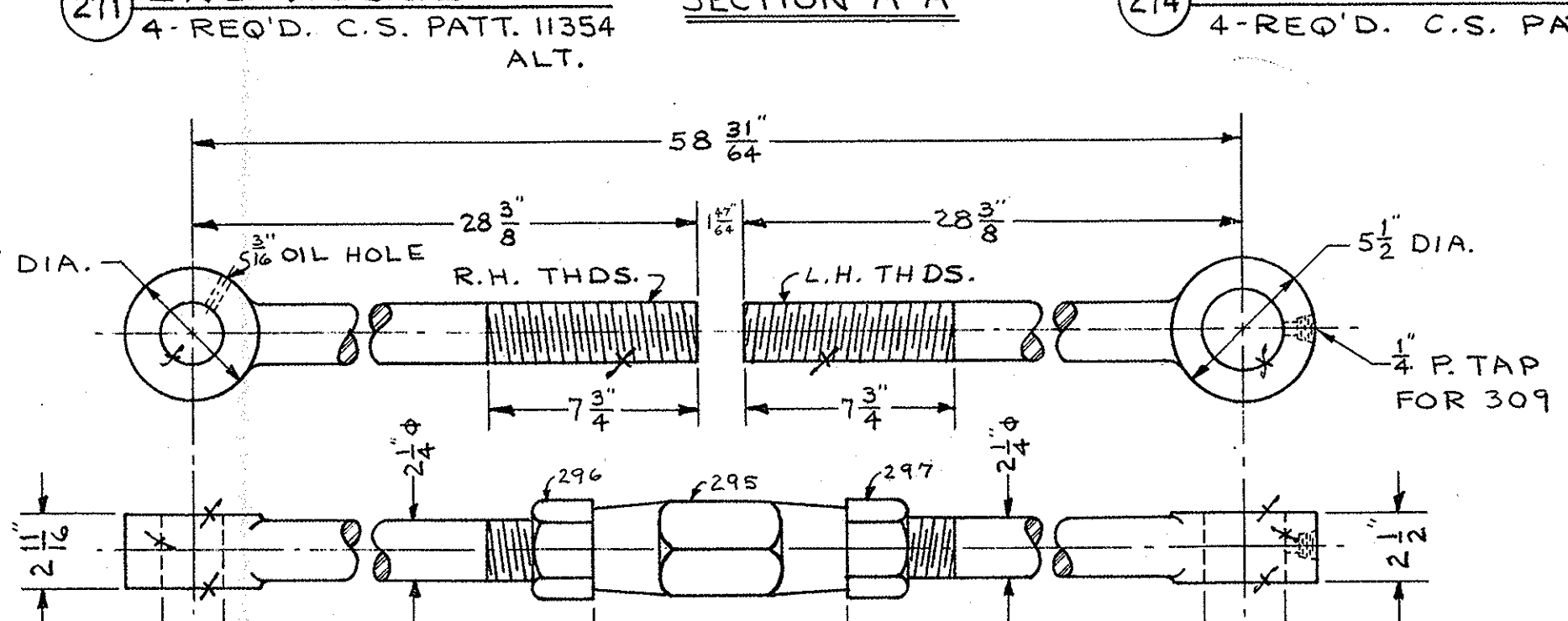
271 END WEDGE
4-REQ'D. C.S. PATT. 11354 ALT.



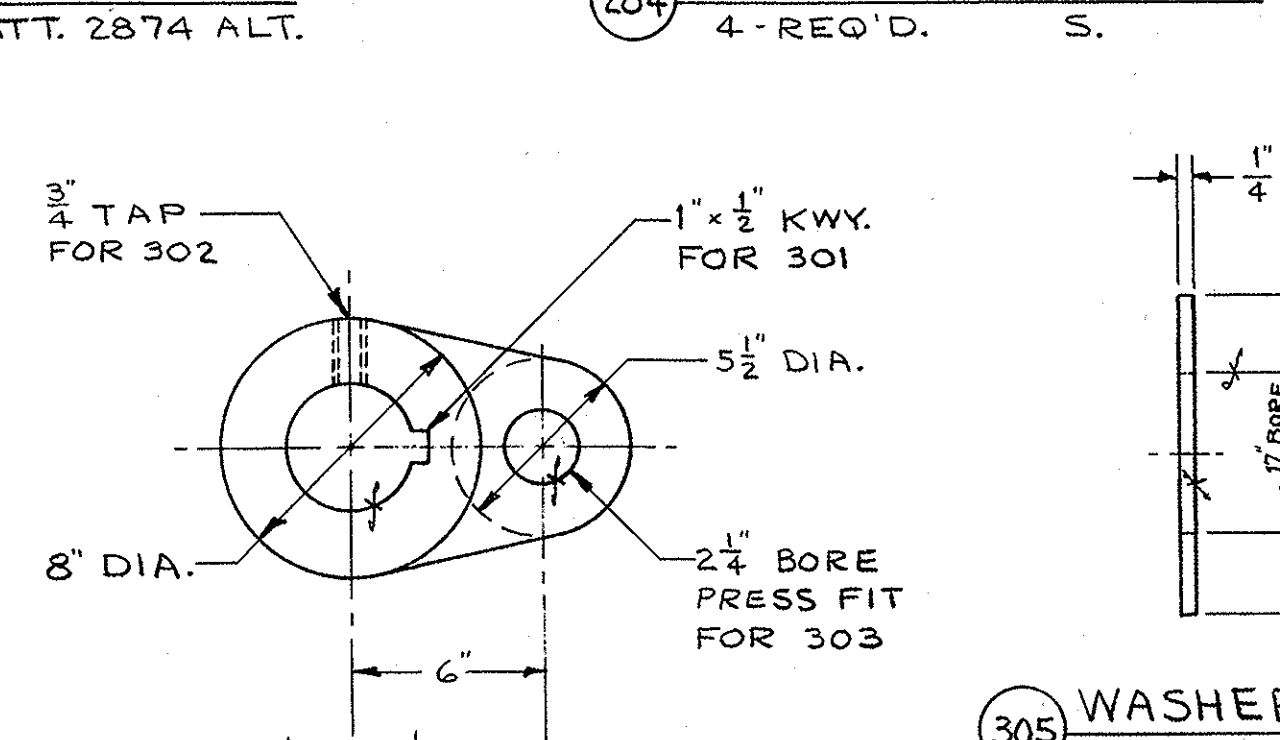
274 END WEDGE GUIDE
4-REQ'D. C.S. PATT. 2874 ALT.



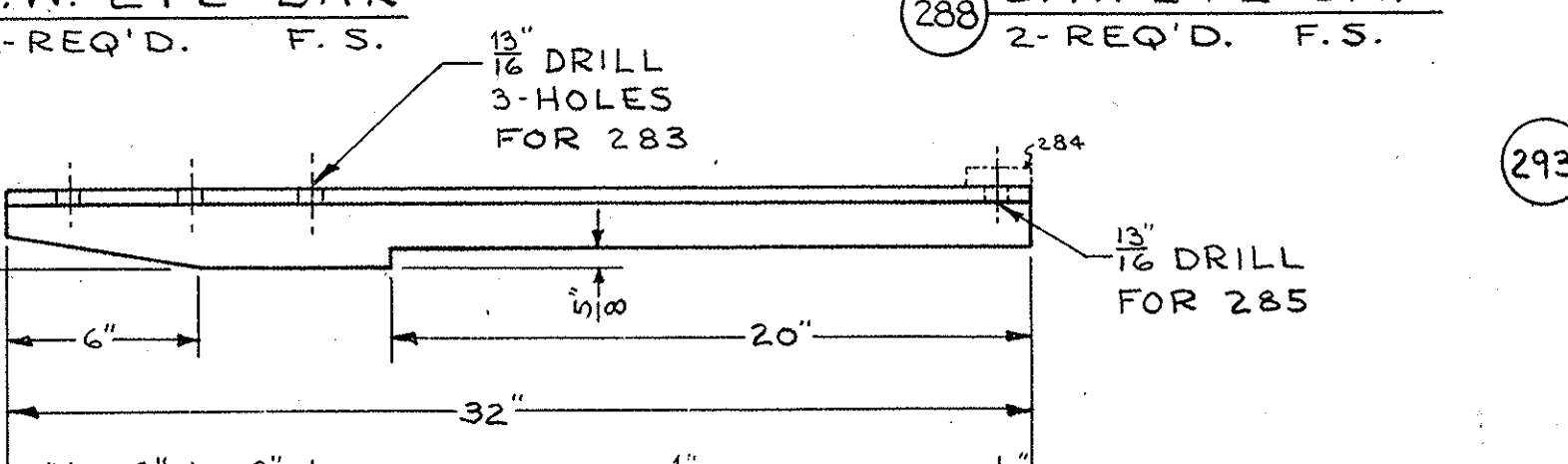
287 C.W. EYE BAR
2-REQ'D. F.S.



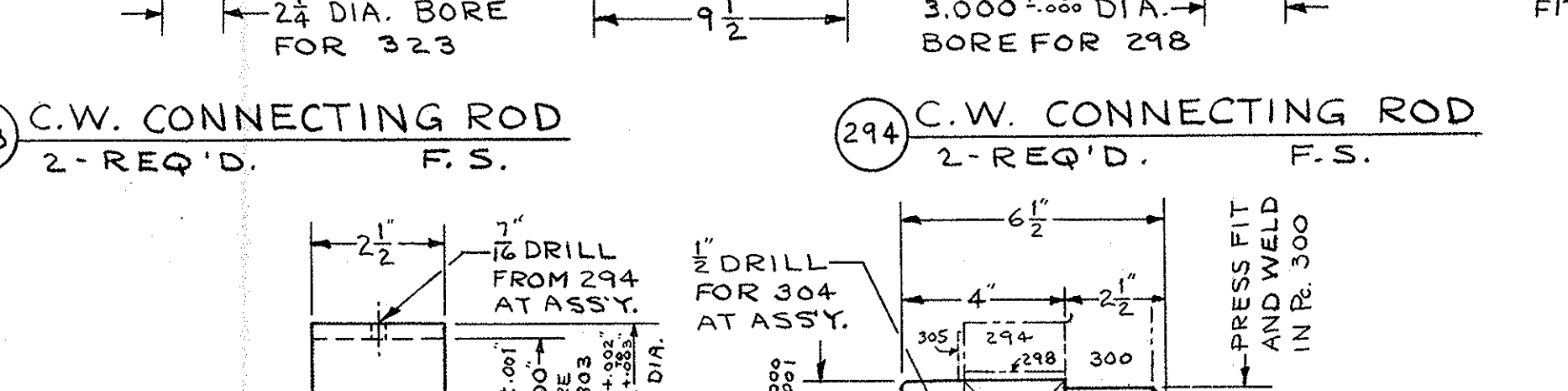
288 C.W. EYE BAR
2-REQ'D. F.S.



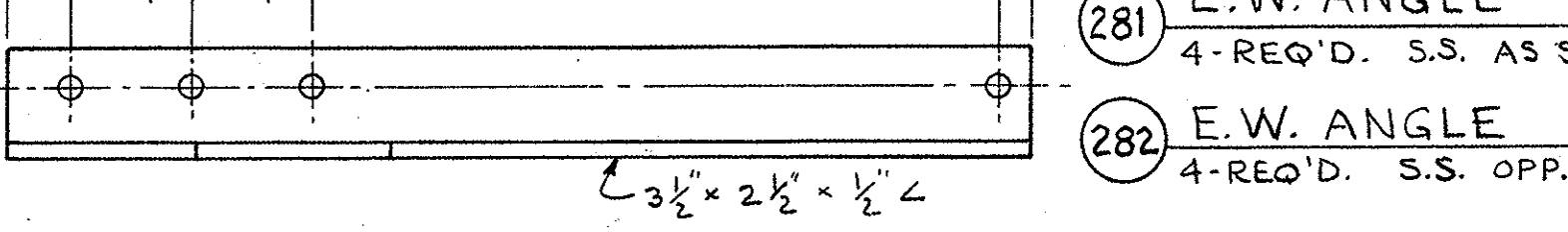
284 TIE BAR FOR 281 & 282
4-REQ'D. S.



293 C.W. CONNECTING ROD
2-REQ'D. F.S.



294 C.W. CONNECTING ROD
2-REQ'D. F.S.

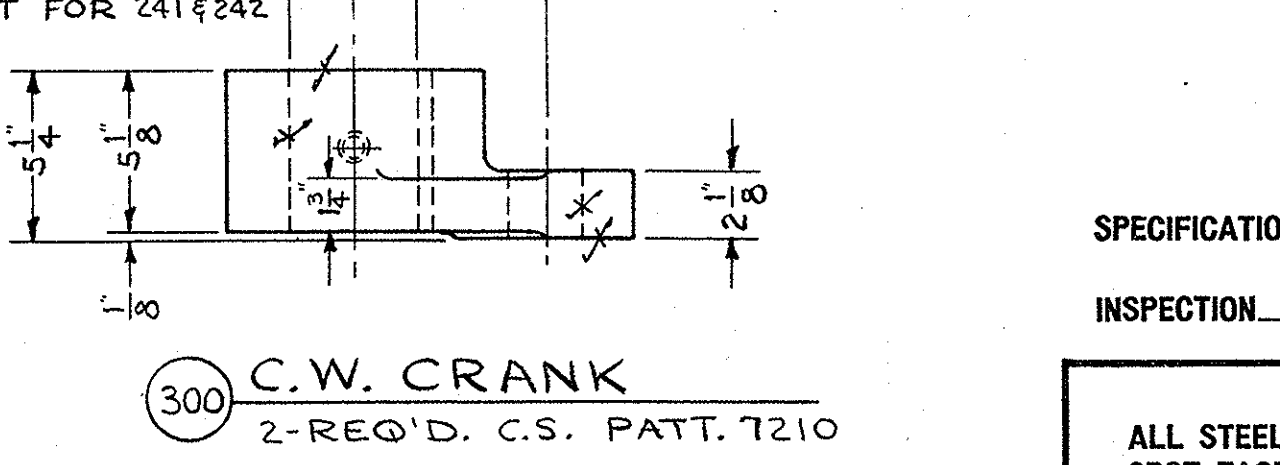


281 E.W. ANGLE
4-REQ'D. S.S. AS SHOWN

282 E.W. ANGLE
4-REQ'D. S.S. OPP. SHOWN

298 BUSHING FOR 294
2-REQ'D. BZ. BUNTING # I-5734 MAKES 2

303 C.W. CRANK PIN
2-REQ'D. 1040 S.



300 C.W. CRANK
2-REQ'D. C.S. PATT. 7210

305 WASHER FOR 303 & 352
6-REQ'D. S.

SPECIFICATIONS AASHTO & SPECIAL PROVISIONS
INSPECTION FROEHLING & ROBERTSON, INC

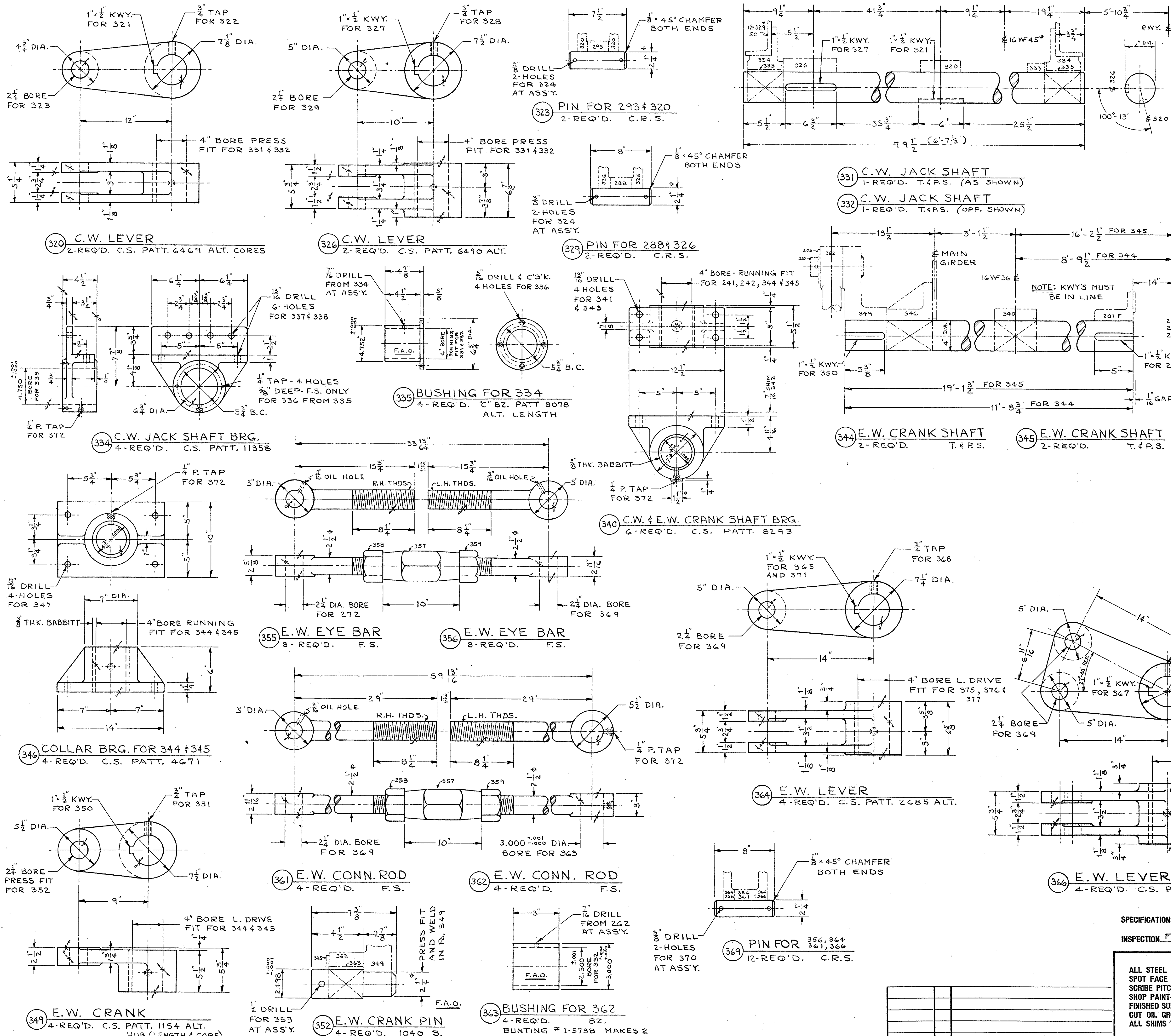
GENERAL NOTES
ALL STEEL CASTINGS & FORGINGS TO BE ANNEALED
SPOT FACE FOR ALL BOLT HEADS & NUTS
SCRIBE PITCH LINES ON BOTH SIDES OF ALL GEARS
SHOP PAINT-ONE COAT- RED LEAD (SEE SPECS)
FINISHED SURFACES COATED- NO- OX- ID
CUT OIL GROOVES IN ALL BEARINGS UNLESS NOTED
ALL SHIMS TO BE DRILLED

S.O.D-7935 CONTRACT 3.11907

WEDGE MACHINERY
ALLIGATOR RIVER SWING SPAN
OVER ALLIGATOR RIVER
TYRRELL-DARE COUNTY, N.C.

THE EARLE GEAR AND MACHINE COMPANY
4707 TO 4715 STENTON AVENUE
PHILADELPHIA 44, PA.

DRAWN BY A.J.C. 6-3-60 APPROVED BY _____
CHECKED BY G.P. 7-11-60 REV. APPROV. _____
DATE _____ REV. APPROV. _____
SHEET 5 OF 11 DWG. NO 6855 E-30



QTY.	NAME	MTL.	PATT.	REMARKS
2	C.W. LEVER	C.S.	6469	ALT. CORES
2	KEY FOR 320	S.		KEY LIST
2	SET SCREW FOR 320	S.	HOLLOW	3/4" x 1 1/2" LG. CUP-POINT
2	PIN FOR 293 & 320	C.R.S.		
8	COTTER FOR 323 & 329	S.	STD.	3/8" x 3 1/2" LG.
2	C.W. LEVER	C.S.	6490	ALT
2	KEY FOR 326	S.		KEY LIST
2	SET SCREW FOR 326	S.	HOLLOW	3/4" x 1 1/4" LG. CUP-POINT
2	PIN FOR 288 & 326	C.R.S.		
1	C.W. JACK SHAFT	T.F.P.S.		AS SHOWN
1	C.W. JACK SHAFT	T.F.P.S.		OPR SHOWN
2	COLLAR FOR 331 & 332	M.I.	4" SHAFT	L.B. STD. (SOLID)
4	C.W. JACK SHAFT BRG.	C.S.	11358	
4	BUSHING FOR 334	'C' BZ.	8078	ALT LENGTH
16	SCREW FOR 335	S.	FLAT HD. MACH.	1/2" x 3/4" LG. NO NUT
8	BASE BOLT FOR 334	S.		T.B. LIST
16	BASE BOLT FOR 334	S.		T.B. LIST
6	C.W. & E.W. CRANK SHFT BRG.	C.S.	8293	
8	BASE BOLT FOR 340	S.		T.B. LIST
1	SHIM FOR 340	S.	12 1/2" x 5"	1/4" - 1/8" - 1/16" - 1/32"
16	BASE BOLT FOR 340	S.		T.B. LIST
2	E.W. CRANK SHAFT	T.F.P.S.		SHORT
2	E.W. CRANK SHAFT	T.F.P.S.		LONG
4	COLLAR BRG. FOR 344	C.S.	4671	
16	BASE BOLT FOR 346	S.		T.B. LIST
4	E.W. CRANK	C.S.	1154	ALT HUB (LENGTH & CORE)
4	KEY FOR 349	S.		KEY LIST
4	SET SCREW FOR 349	S.	HOLLOW	3/4" x 1 1/4" LG. CUP-POINT
4	E.W. CRANK PIN	S.	1940	
4	COTTER PIN FOR 352	S.	STD.	1/2" x 4" LG.
8	E.W. EYE BAR	F.S.		R.H. THREADS
8	E.W. EYE BAR	F.S.		L.H. THREADS
12	SLEEVE NUT FOR 355, 356	F.S.	HEX.	2 1/2" A.B. STYLE R.H. THDS.
12	NUT FOR 355 & 361	S.	HEX.	2 1/2" R.H. AMER. STD. HVY.
12	NUT FOR 356 & 362	S.	HEX.	2 1/2" L.H. AMER. STD. HVY.
4	E.W. CONN. ROD	F.S.		R.H. THREADS
4	E.W. CONN. ROD	F.S.		L.H. THREADS
4	BUSHING FOR 362	BZ.		BUNTING # I-5738 MAKES 2
4	E.W. LEVER	C.S.	2685	ALT.
2	KEY FOR 364	S.		KEY LIST
4	E.W. LEVER	C.S.		NEW
4	KEY FOR 366	S.		KEY LIST
8	SET SCREW FOR 366	S.	HOLLOW	3/4" x 1 1/2" LG. CUP-POINT
12	PIN FOR 364, 366	C.R.S.		
24	COTTER PIN FOR 369	S.	STD.	3/8" x 3 1/2" LG.
2	KEY FOR 364	S.		KEY LIST
18	LUB. FITTING FOR 364, 366	P.T.		ALEMITE # 1627-A

SPECIFICATIONS AASHTO & SPECIAL PROVISIONS
INSPECTION FROEHLING & ROBERTSON, INC.

GENERAL NOTES
ALL STEEL CASTINGS & FORGINGS TO BE ANNEALED
SPOT FACE FOR ALL BOLT HEADS & NUTS
SCRIBE PITCH LINES ON BOTH SIDES OF ALL GEARS
SHOP PAINT—ONE COAT—RED LEAD (SEE SPECS)
FINISHED SURFACES COATED—NO-OX-ID
CUT OIL GROOVES IN ALL BEARINGS UNLESS NOTED
ALL SHIMS TO BE DRILLED

S.O. D-7935 CONTRACT 8-11907

WEDGE MACHINERY
ALLIGATOR RIVER SWING SPAN
OVER ALLIGATOR RIVER
TYRRELL-DARE COUNTY, N.C.

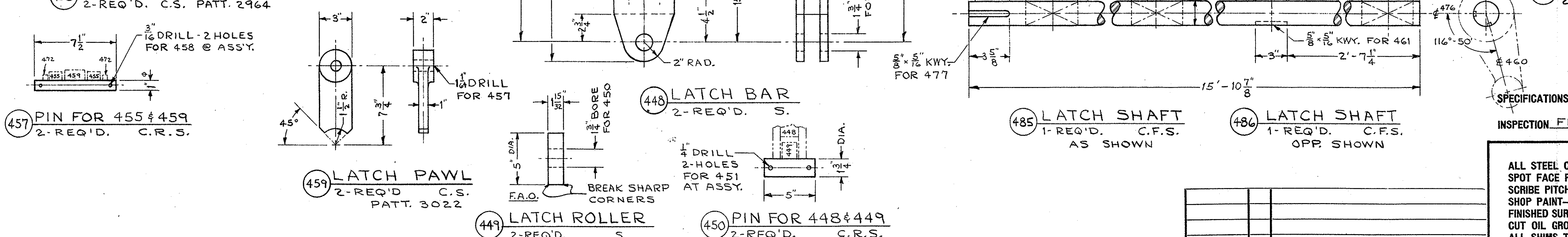
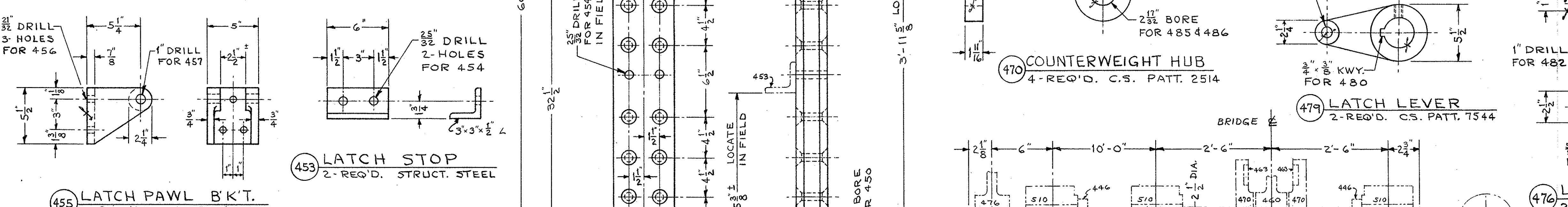
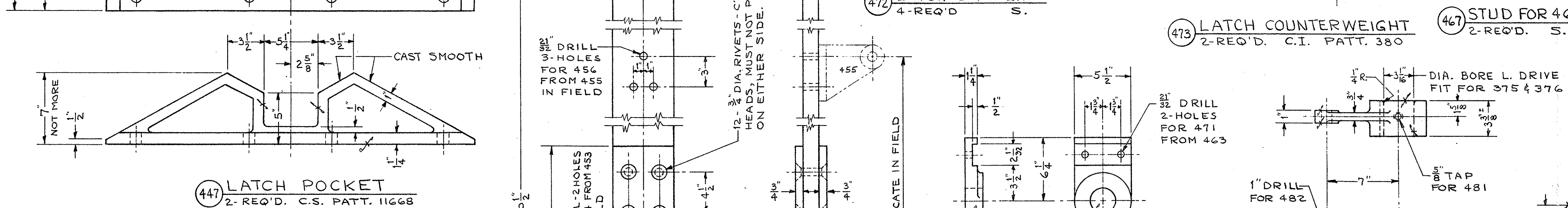
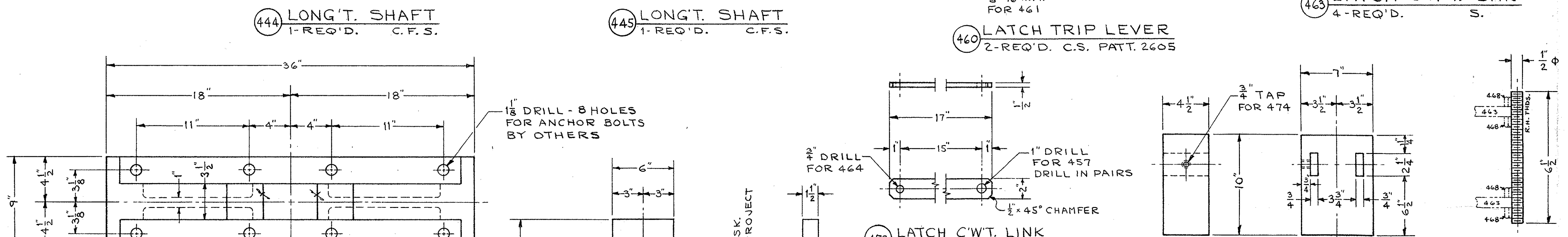
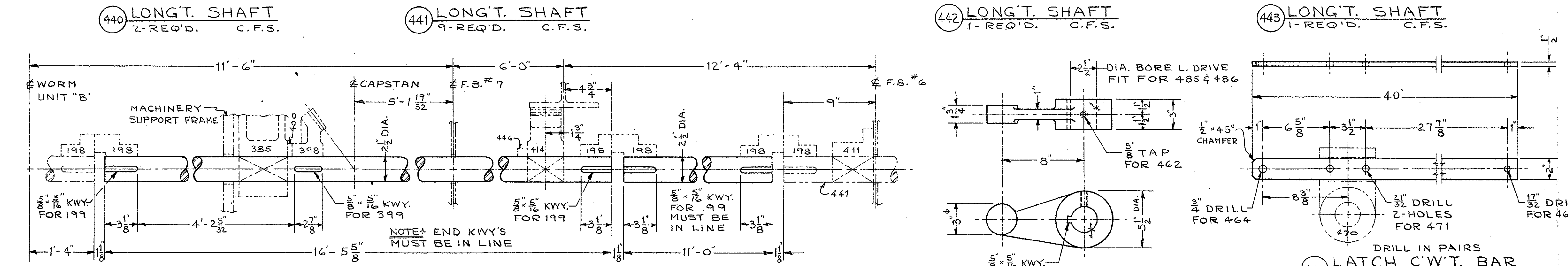
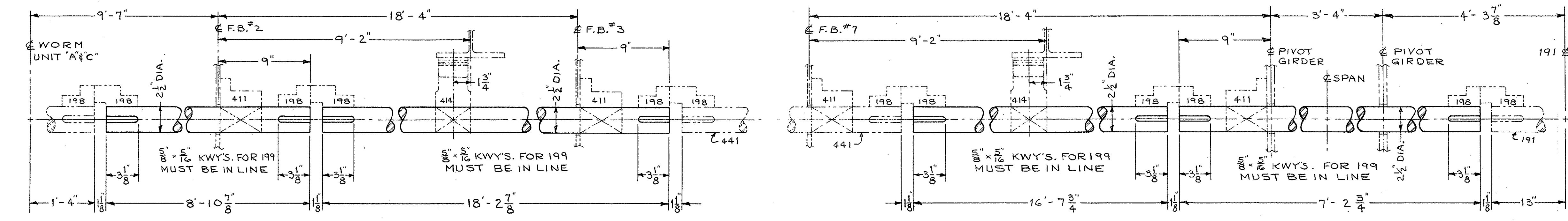
THE EARLE GEAR AND MACHINE COMPANY
4707 TO 4715 STENTON AVENUE
PHILADELPHIA 44, PA.

DRAWN BY A.J.C. 6-14-60 APPROVED BY _____
CHECKED BY G.P. 7-13-60 REV. APPVD. _____
DATE _____ REV. APPVD. _____

SHEET 6 OF 11 DWG. NO. 6856 E-30

DATE	REVISIONS

PC.	NAME	QTY.	MTL.	PATT.	REMARKS
440	LONGITUDINAL SHAFT	2	C.F.S.		
441	LONGITUDINAL SHAFT	9	C.F.S.		
442	LONGITUDINAL SHAFT	1	C.F.S.		
443	LONGITUDINAL SHAFT	1	C.F.S.		
444	LONGITUDINAL SHAFT	1	C.F.S.		
445	LONGITUDINAL SHAFT	1	C.F.S.		
446	COLLAR FOR 444	5	S.	2 1/2" SHAFT	L.B. STD. (SOLID)
447	LATCH POCKET	2	C.S.	11668	
448	LATCH BAR	2	S.		
449	LATCH ROLLER	2	S.		
450	PIN FOR 448 & 449	2	C.R.S.		
451	COTTER PIN FOR 450	4	S.	STD.	1/4" x 2 1/2" LG.
452					
453	LATCH STOP	2	STRUCT. STEEL		
454	BOLT FOR 453	4	S.	HEX. HD. MACH.	3/4" x 5" LG. 1/4" N. & L.W.
455	LATCH PAWL B'K.T.	2	C.S.	2964	
456	BOLT FOR 455	4	S.	HEX. HD. MACH.	5/8" x 3 1/2" LG. 1/4" N. & L.W.
457	PIN FOR 455 & 459	2	C.R.S.		
458	COTTER PIN FOR 457	4	S.	STD.	3/16" x 1 1/2" LG.
459	LATCH PAWL	2	C.S.	3022	
460	LATCH TRIP LEVER	2	C.S.	2605	
461	KEY FOR 460	2	S.		KEY LIST
462	SET SCREW FOR 460	2	S.	HOLLOW	5/8" x 1 1/2" LG. CUP-POINT
463	LATCH C'W.T. BAR	4	S.		
464	PIN FOR 463 & 472	2	C.R.S.		
465	COTTER PIN FOR 464	4	S.	STD.	3/16" x 1 1/2" LG.
466	SPACER FOR 464	2	S.	STD.	3/4" PIPE x 4" LG. (NO THDS. FACED ENDS)
467	STUD FOR 463	2	S.	THREADED BAR	SEE DETAIL
468	NUT FOR 467	8	S.	HEX.	1/2" R.H. AMER. STD. HEAVY
469					
470	COUNTERWEIGHT HUB	4	C.S.	2514	
471	BOLT FOR 470	8	S.	HEX. HD. MACH.	5/8" x 2 1/2" LG. 1/4" N. & L.W.
472	LATCH C'W.T. LINK	4	S.		
473	LATCH C'WEIGHT	2	C.I.	380	
474	SET SCREW FOR 473	2	S.	HOLLOW	3/4" x 1" LG. CUP-POINT
475					
476	LATCH LEVER	2	C.S.		
477	KEY FOR 476	2	S.		KEY LIST
478	SET SCREW FOR 476	2	S.	HOLLOW	5/8" x 1 1/2" LG. CUP-POINT
479	LATCH LEVER	2	C.S.	7544	
480	KEY FOR 479	2	S.		KEY LIST
481	SET SCREW FOR 479	2	S.	HOLLOW	5/8" x 1 1/2" LG. CUP-POINT
482	PIN FOR 476, 479 & 519	4	C.R.S.		
483	COTTER PIN FOR 482	8	S.	STD.	3/16" x 1 1/2" LG.
484					
485	LATCH SHAFT	1	C.F.S.		AS SHOWN
486	LATCH SHAFT	1	C.F.S.		OPP. SHOWN
487					
488					
489					



S.O. D-7935 CONTRACT 8.11907

LATCH & LONG'T. SHAFTING
ALLIGATOR RIVER SWING SPAN
OVER ALLIGATOR RIVER
TYRRELL-DARE COUNTY, N.C.

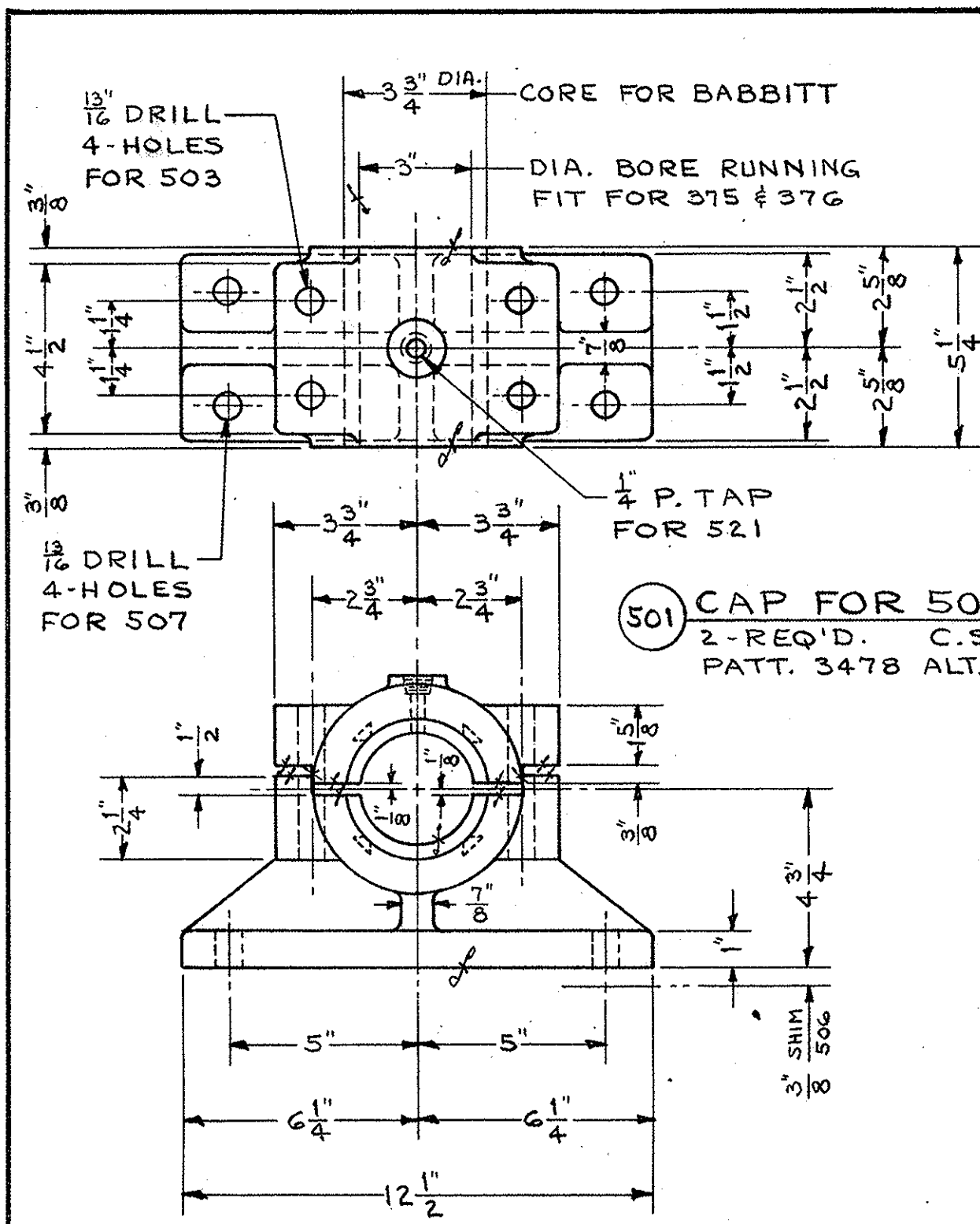
SPECIFICATIONS AASHO & SPECIAL PROVISIONS
INSPECTION FROEHLING & ROBERTSON, INC.

GENERAL NOTES
ALL STEEL CASTINGS & FORGINGS TO BE ANNEALED
SPOT FACE FOR ALL BOLT HEADS & NUTS
SCRIBE PITCH LINES ON BOTH SIDES OF ALL GEARS
SHOP PAINT—ONE COAT—RED LEAD (SEE SPECS)
FINISHED SURFACES COATED—NO OX-ID
CUT OIL GROOVES IN ALL BEARINGS UNLESS NOTED
ALL SHIMS TO BE DRILLED

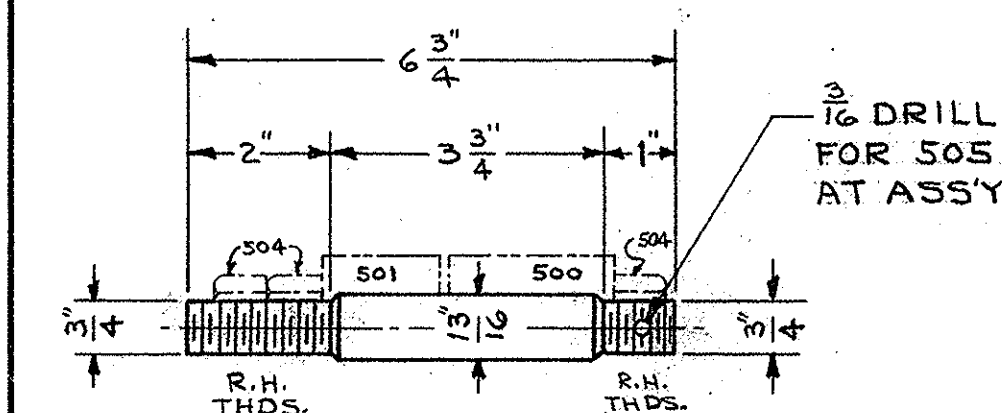
THE EARLE GEAR AND MACHINE COMPANY
4707 TO 4715 STENTON AVENUE
PHILADELPHIA 44, PA.

DRAWN BY: A.J.C. 7-5-60 APPROVED BY: _____
CHECKED BY: G.P. 7-13-60 REV. APPV: _____
DATE: _____ REV. APPV: _____

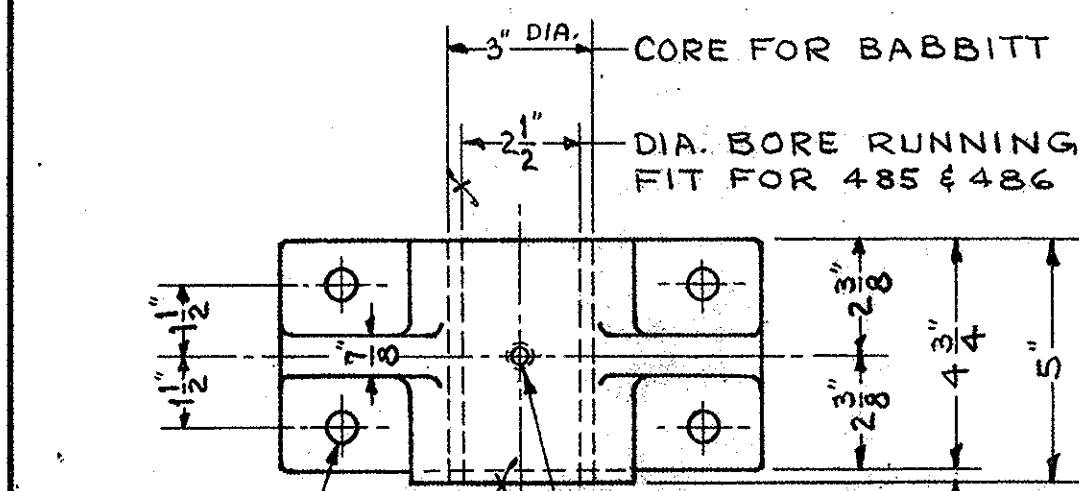
SHEET 8 OF 11 DWG. NO. 6858 E-30



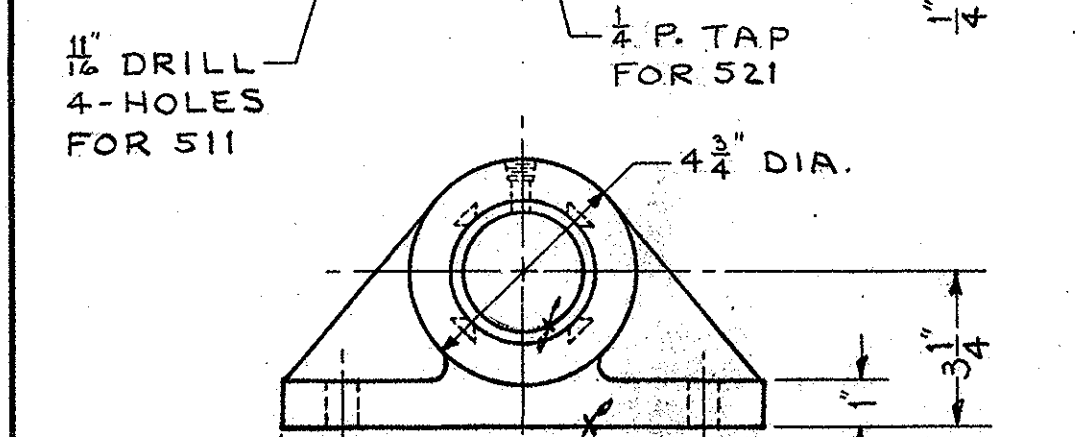
500 E.W. JACK SHAFT BRG.
2-REQ'D. C.S. PATT. 3471 ALT.



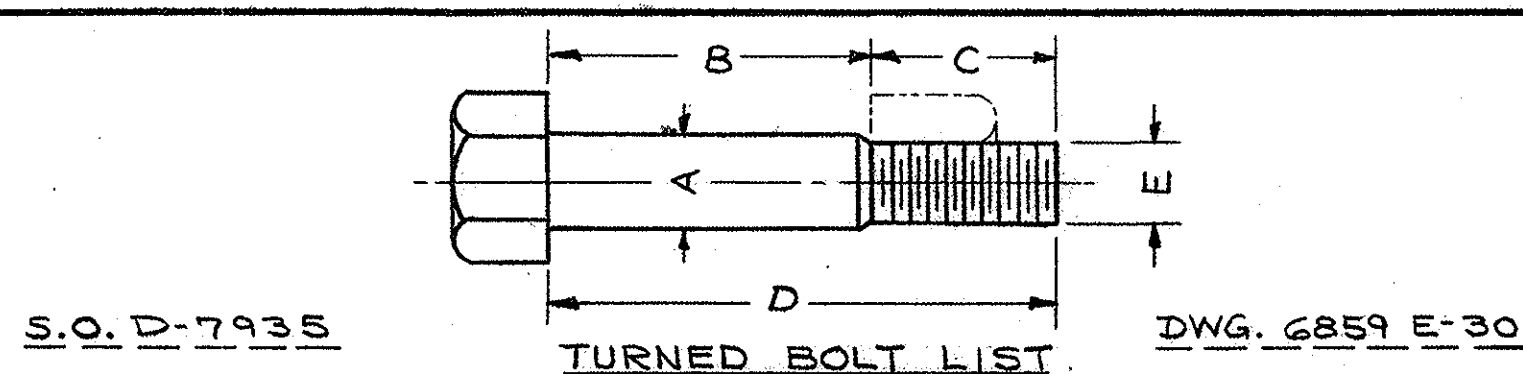
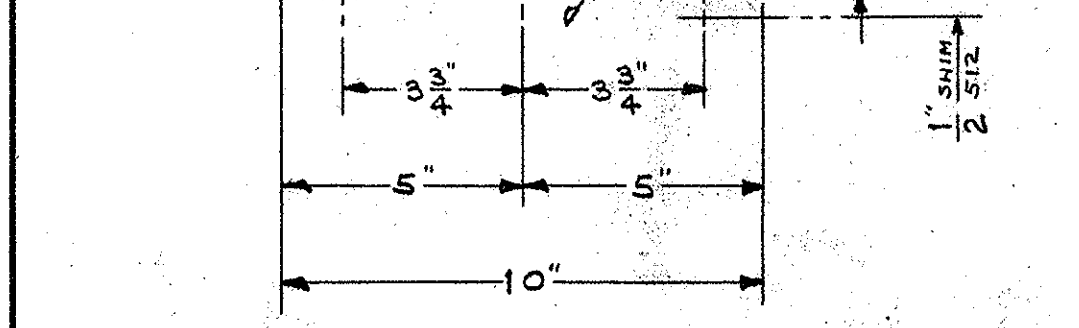
503 STUD BOLT FOR 500 & 501
8-REQ'D. S.



510 LATCH SHAFT BRG.
6-REQ'D. C.S. PATT. 8295

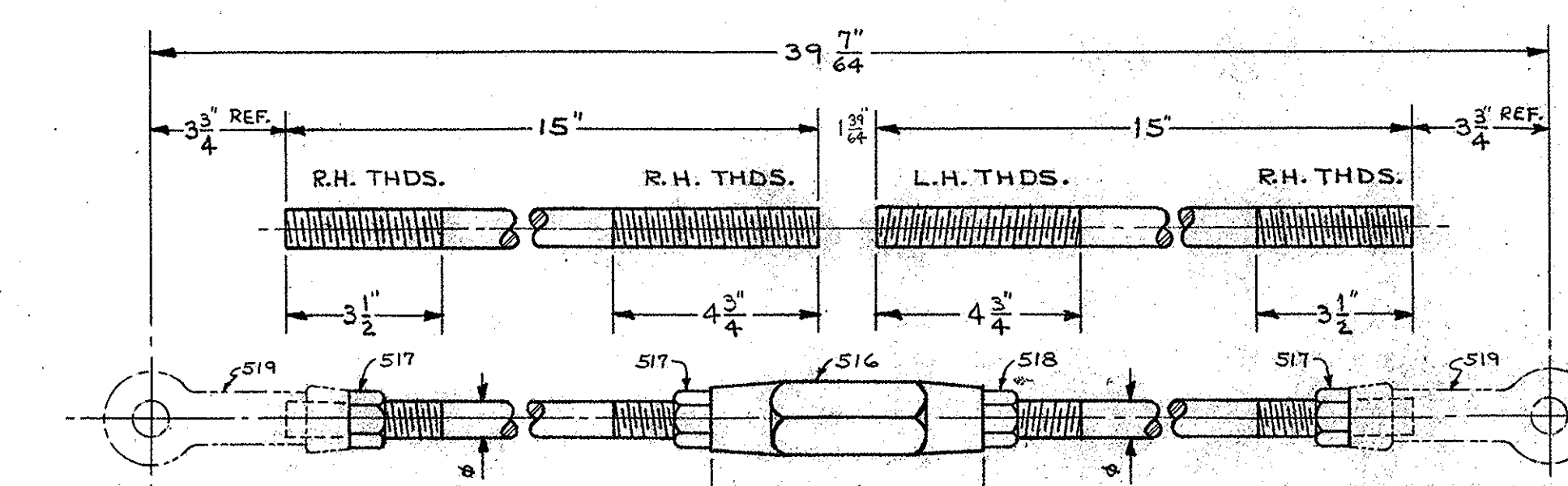


519 CLEVIS FOR 514 & 515
4-REQ'D. S. MERRILL BROS.

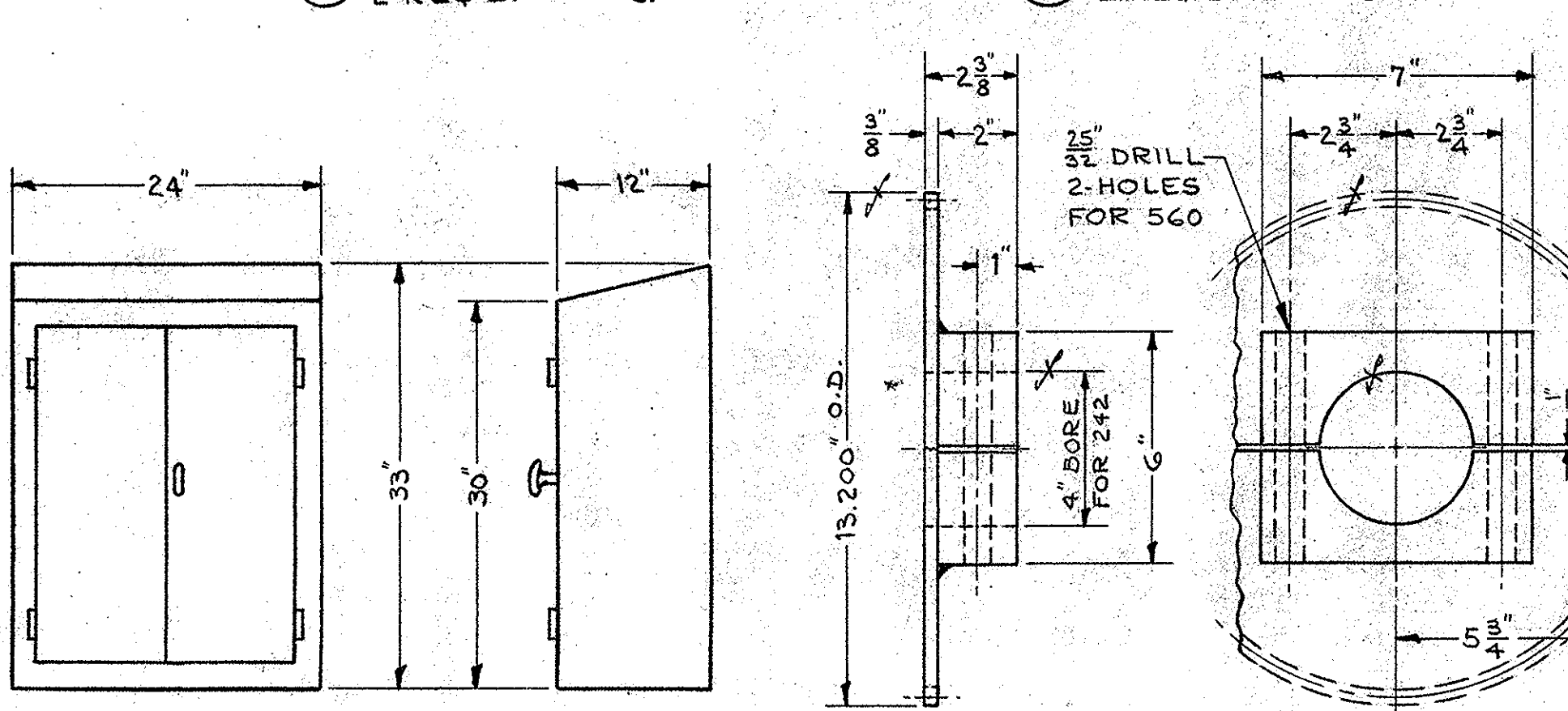


S.O. D-7935 TURNED BOLT LIST DWG. 6859 E-30

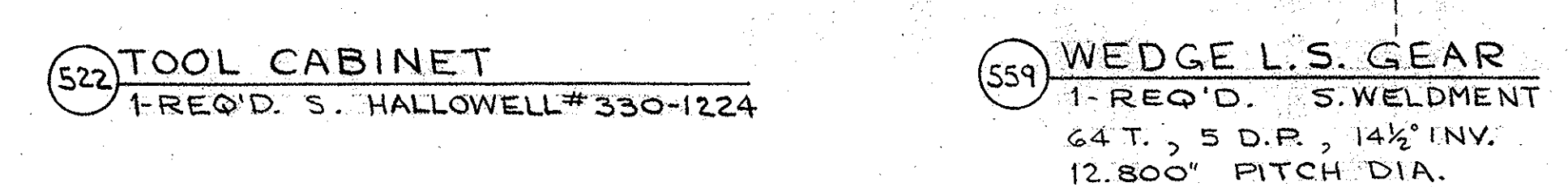
Pc. No.	HEAD	QTY.	A	B	C	D	E	FOR	REMARKS	NUTS	L.W.	B.W.
3	HEX.	8	1 1/2	2 3/8	1 3/8	4 1/2	1"	142	BASE	8	8	
4	HEX.	4	1 1/2	2 3/8	1 3/8	4 1/2	1"	2	FLANGE	4	4	
15	HEX.	6	1 1/2	5 1/4	2 3/8	7 3/8	1 3/8	14	BASE	6	6	
17	HEX.	16	1 1/2	1 3/8	1 3/8	3"	1 3/8	16	BASE	16	16	
27	HEX.	24	1 1/2	2 3/8	1 3/8	4"	1"	25	FLANGE	24	24	
31	HEX.	24	1 1/2	3 3/8	1 3/8	5 1/2	1"	38	BASE	24	24	
32	SQ.	16	1 1/2	7 3/8	3 3/8	10 1/4	1 1/2	2 3/8	CAP	32		
39	HEX.	16	1 1/2	4 3/8	1 3/8	6 1/4	7/8	16	BASE	16	16	
77	HEX.	8	1 1/2	3 1/4	2 3/8	5 3/8	3/4	74 1/2	CAP	16		
78	HEX.	8	1 1/2	1 3/8	1 3/8	2 3/8	3/8	74	BASE	8	8	
85	SQ.	8	1 1/2	5 1/4	2 3/8	8 1/4	7/8	8 1/2	CAP	16		
86	HEX.	16	1 1/2	2"	1 3/8	3 1/4	7/8	82	BASE	16	16	
123	HEX.	6	1 1/2	2 3/8	1 3/8	4 3/8	7/8	121	BASE	6	6	6 3/8 SLOPE
140	HEX.	4	1 1/2	2 3/8	1 3/8	3 3/4	7/8	135	BASE	4	4	
144	HEX.	4	1 1/2	1 3/8	1 3/8	2 3/8	3/8	143	BASE	4	4	
192	HEX.	6	1 1/2	2 3/8	1 3/8	4"	3/8	191	BASE	6	6	6 3/8 SLOPE
214	HEX.	18	1 1/2	2 3/8	1 3/8	3 3/8	7/8	209	BASE	18	18	
266	HEX.	12	1 1/2	3 1/2	1 3/8	5 3/8	7/8	264	BASE	12	12	
276	HEX.	12	1 1/2	3"	1 3/8	4 3/8	7/8	274	BASE	12	12	
277	HEX.	4	1 1/2	3 3/8	1 3/8	4 3/8	3/4	274	BASE	4	4	
337	HEX.	8	1 1/2	1 3/8	1 3/8	3 3/8	3/4	334	BASE	8	8	8 3/8 SLOPE
338	HEX.	16	1 1/2	1"	1 3/8	2 3/8	3/8	334	BASE	16	16	
341	HEX.	8	1 1/2	3"	1 3/8	4 3/8	3/4	340	BASE	8	8	
343	HEX.	16	1 1/2	2 3/8	1 3/8	3 3/8	3/4	340	BASE	16	16	
347	HEX.	16	1 1/2	1 3/8	1 3/8	2 3/8	3/8	346	BASE	16	16	
380	HEX.	24	1 1/2	2 3/8	1 3/8	4 3/8	7/8	378	BASE	24	24	
391	HEX.	2	1 1/2	6 1/2	1 3/8	8 1/4	3/4	385	BASE	2	2	
392	HEX.	2	1 1/2	5 3/8	1 3/8	7 3/8	3/4	385	BASE	2	2	
408	HEX.	4	1 1/2	1 3/8	1 3/8	3 3/8	3/4	404	BASE	4	4	
412	HEX.	44	1 1/2	1 3/8	1 3/8	2 3/8	3/8	411	BASE	44	44	
413	HEX.	4	1 1/2	1 3/8	1 3/8	2 3/8	3/8	411	BASE	4	4	
417	SQ.	22	1 1/2	6 1/2	2"	8 1/4	3/4	418	CAP	44		
418	HEX.	22	1 1/2	2 3/8	1 3/8	3 3/8	3/4	415	BASE	22	22	
507	HEX.	8	1 1/2	2"	1 3/8	3 3/8	3/4	500	BASE	8	8	
511	HEX.	24	1 1/2	1 3/8	1 3/8	3 3/8	3/4	510	BASE	24	24	
555	HEX.	4	1 1/2	1 3/8	1 3/8	3"	3/8	554	BASE	4	4	
233	HEX.	6	1 1/2	2 3/8	1 3/8	4"	7/8	209	BASE	6	6	



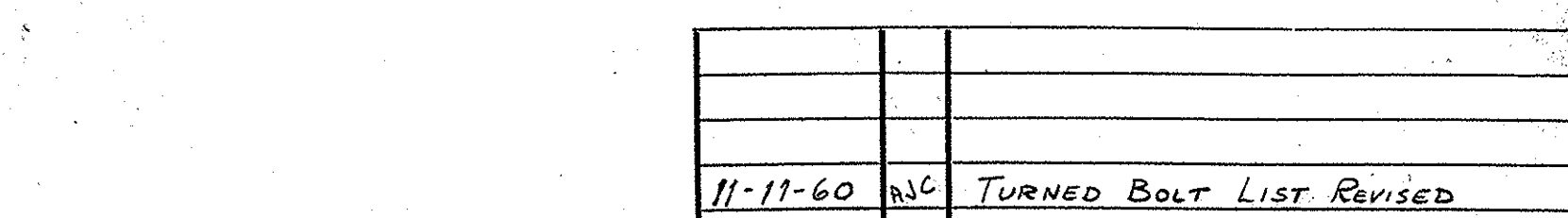
514 LATCH ROD 2-REQ'D. S.



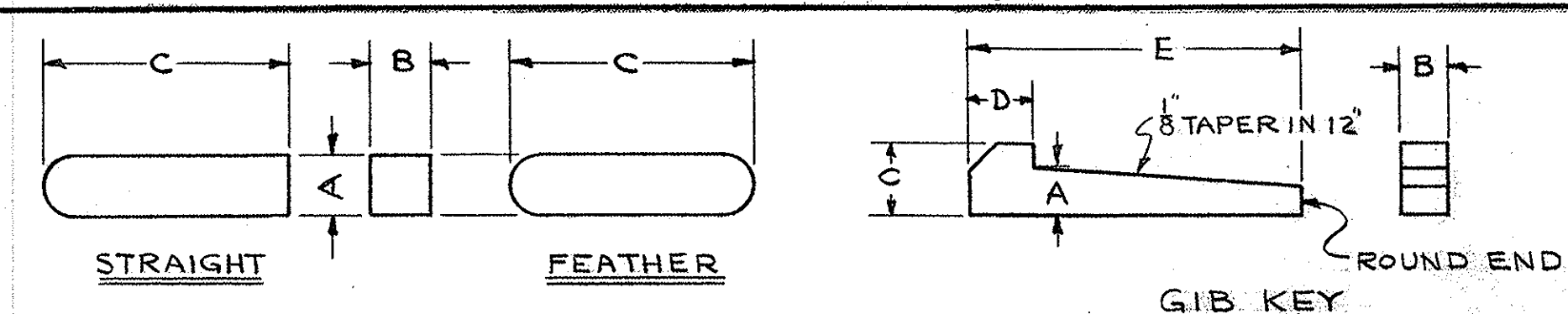
515 LATCH ROD 2-REQ'D. S.



522 TOOL CABINET 1-REQ'D. S. HALLOWELL #330-1224

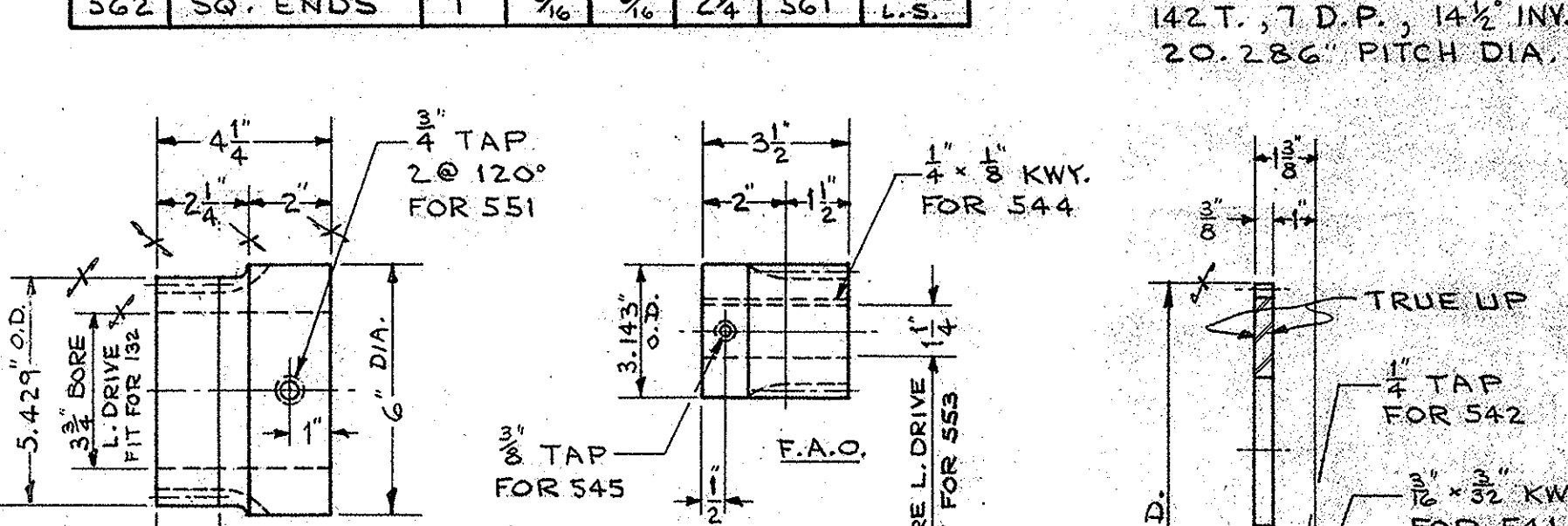


559 WEDGE L.S. GEAR 1-REQ'D. S.WELDMENT 64 T., 5 D.P., 14 1/2\"/>

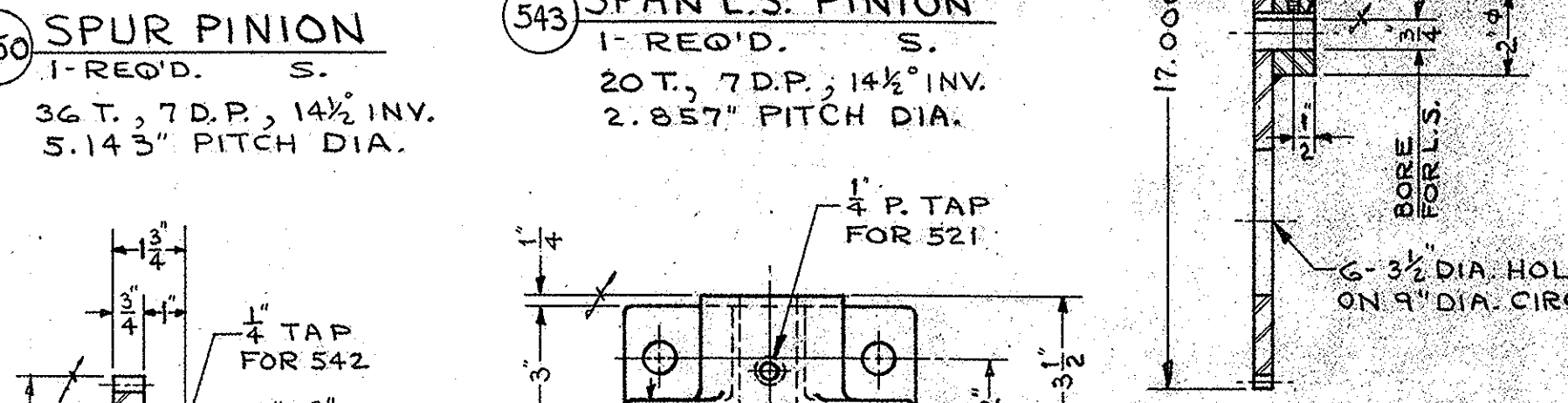


S.O. D-7935 KEY LIST DWG. 6859 E-30

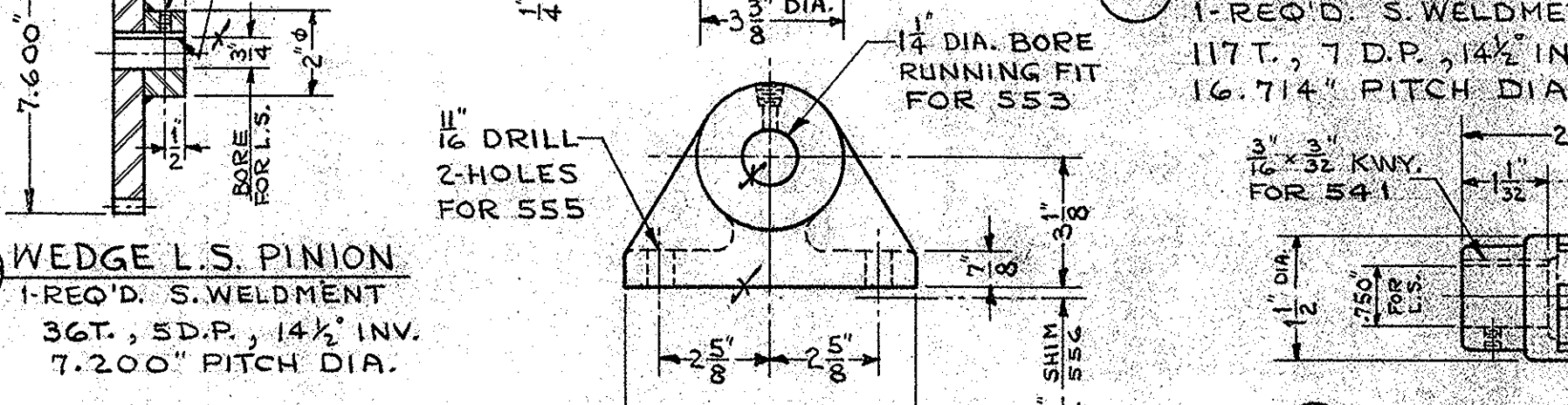
Pc. No.	KIND	QTY.	A	B	C	FOR	ON	D	E
52	STRAIGHT	4	1 1/2	1 1/2	6 3/8	51	50 1/2		
59	GIB HEAD	2	7/8	7/8	1 1/2	58	102 1/4	1"	7"
63	STRAIGHT	4	1 1/2	1 1/2	6 3/8	62	56 1/2		
66	FEATHER	1	5/8	5/8	4"	65	72		
69	FEATHER	1	7/8	7/8	4"	68	133		
127	STRAIGHT	4	3/8	3/8	5 1/2	126	121		
128	STRAIGHT	4	7/8	7/8	4 3/8	126	132 1/2		
130	STRAIGHT	1	1/2	1/2	3"	129	121		
195	STRAIGHT	1	3/8	3/8	2 1/8	194	191		
199	STRAIGHT	36	5/8	5/8	5 1/8	198	242 1/2		
202	STRAIGHT	6	1"	1"	5"	201	244 1/2		
203	STRAIGHT	6	1"	1"	5 1/2	201	230		
232	FEATHER	3	1"	1"	4 3/8	231	230		
301	STRAIGHT	2	1"	1"	5"	300	241 1/2		
321	FEATHER	2	1"	1"	6"	320	331 1/2		
327	FEATHER	2	1"	1"	6 1/2	326	331 1/2		
350	STRAIGHT	4	1"	1"	5 3/8	349	348 1/2		
365	FEATHER	2	1"	1"	6 1/2	364	375 1/2		
367	STRAIGHT	4	1"	1"	7 1/2	366	376 1/2		
371	STRAIGHT	2	1"	1"	6 3/8	364	377		
396	FEATHER	1	5/8	5/8	3 1/2	395	401		
399	FEATHER	1	5/8	5/8	2 3/8	398	444		
461	FEATHER	2	5/8	5/8	3"	460	489 1/2		
477	STRAIGHT	2	3/8	3/8	3 5/8	476	486 1/2		
480	FEATHER	2	3/4	3/4	3 3/4	479	375 1/2		
541	SQ. ENDS	2	3/16	3/16	2 1/2	558	558		
544	FEATHER	1	1/4	1/4	3 3/8	543	553		
548	STRAIGHT	1	1/2	1/2	2 1/8	547	553		
562	SQ. ENDS	1	3/16	3/16	2 1/2	561			



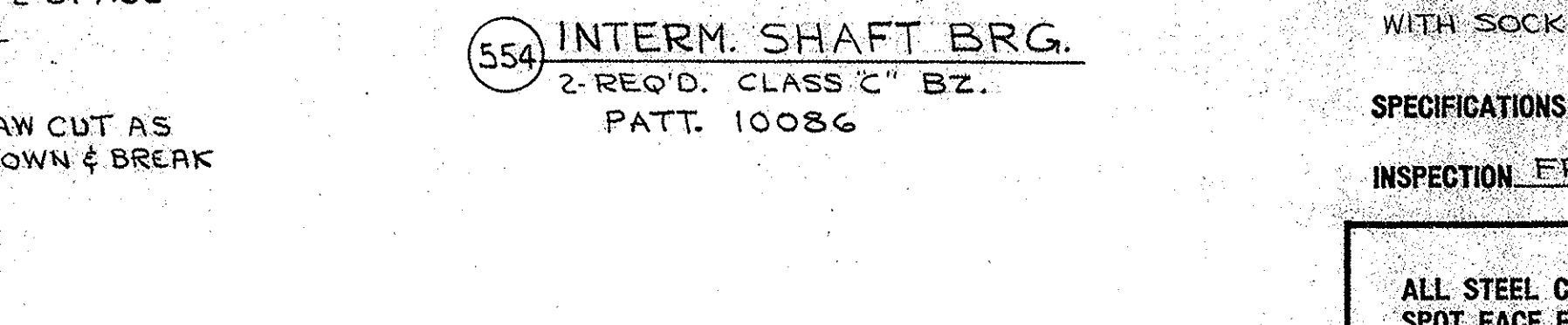
550 SPUR PINION 1-REQ'D. S. 36 T., 7 D.P., 14 1/2\"/>



543 SPAN L.S. PINION 1-REQ'D. S. 20 T., 7 D.P., 14 1/2\"/>



561 WEDGE L.S. PINION 1-REQ'D. S.WELDMENT 36 T., 5 D.P., 14 1/2\"/>

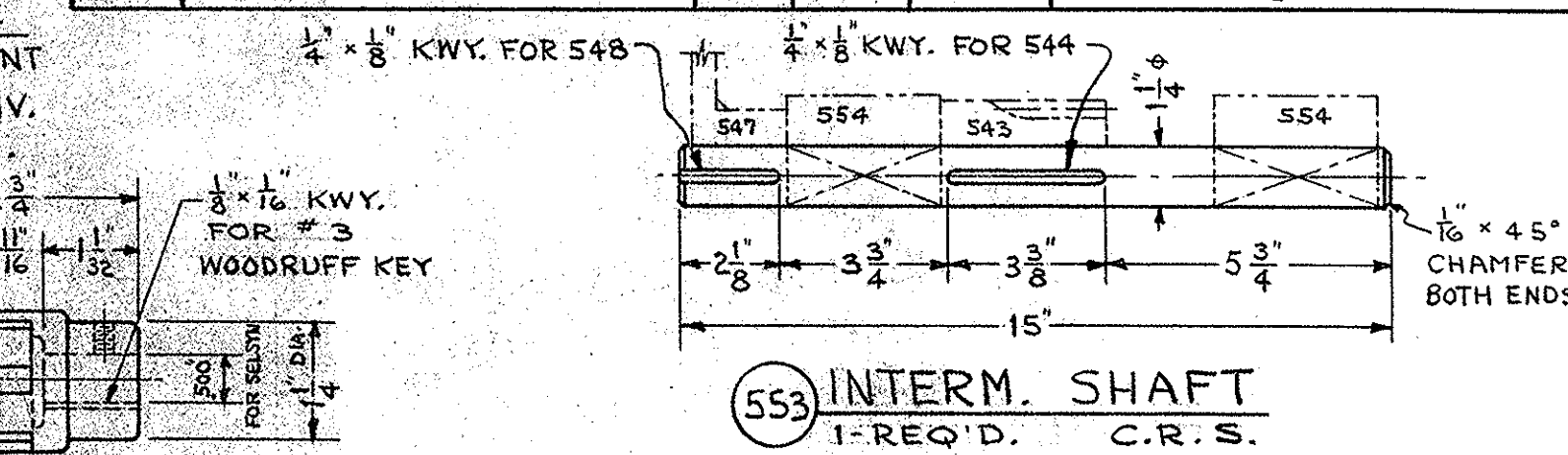


554 INTERM. SHAFT BRG. 2-REQ'D. CLASS C\"/>

DATE	11-11-60	REV.	N/C	DESCRIPTION	TURNED BOLT LIST REVISED
DATE		REV.		DESCRIPTION	

S.O. D-7935 BILL OF MATERIAL DWG. 6859 E-30

Pc.	NAME	QTY.	MTL.	PATT.	REMARKS
500	E.W. JACK SHAFT BRG.	2	C.S.	3471	ALT.
501	CAP FOR 500	2	C.S.	3478	ALT.
502	LINER FOR 500 & 501	4	FIBER	5 1/4 x 1 1/2 x 1/2	
503	STUD BOLT FOR 500	8	S.		SEE DETAIL
504	NUT FOR 503	24	S.	HEX.	3/4 R.H. AMER. STD. HEAVY
505	COTTER PIN FOR 503	16	S.	STD.	3/16 x 2\"/>



555 INTERM. SHAFT 1-REQ'D. C.R.S.

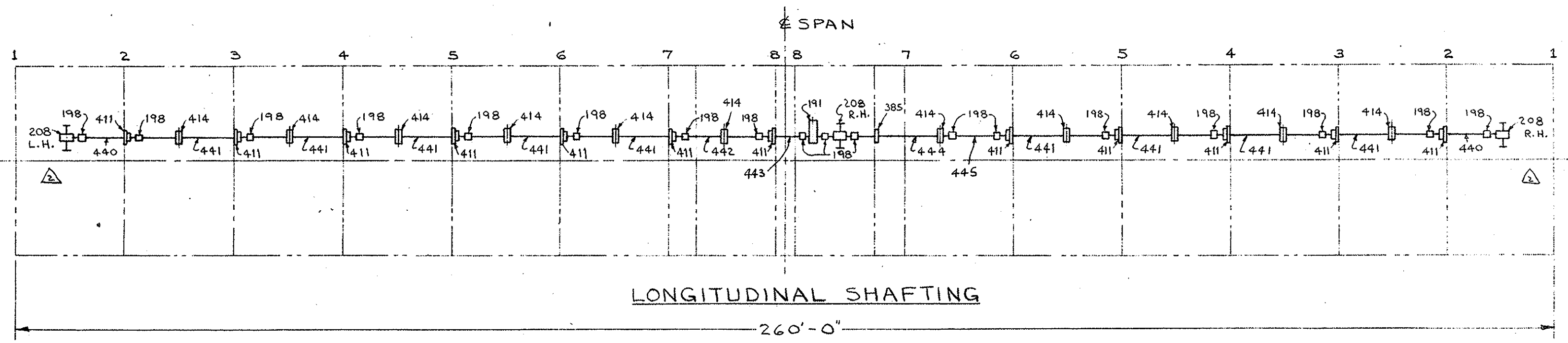
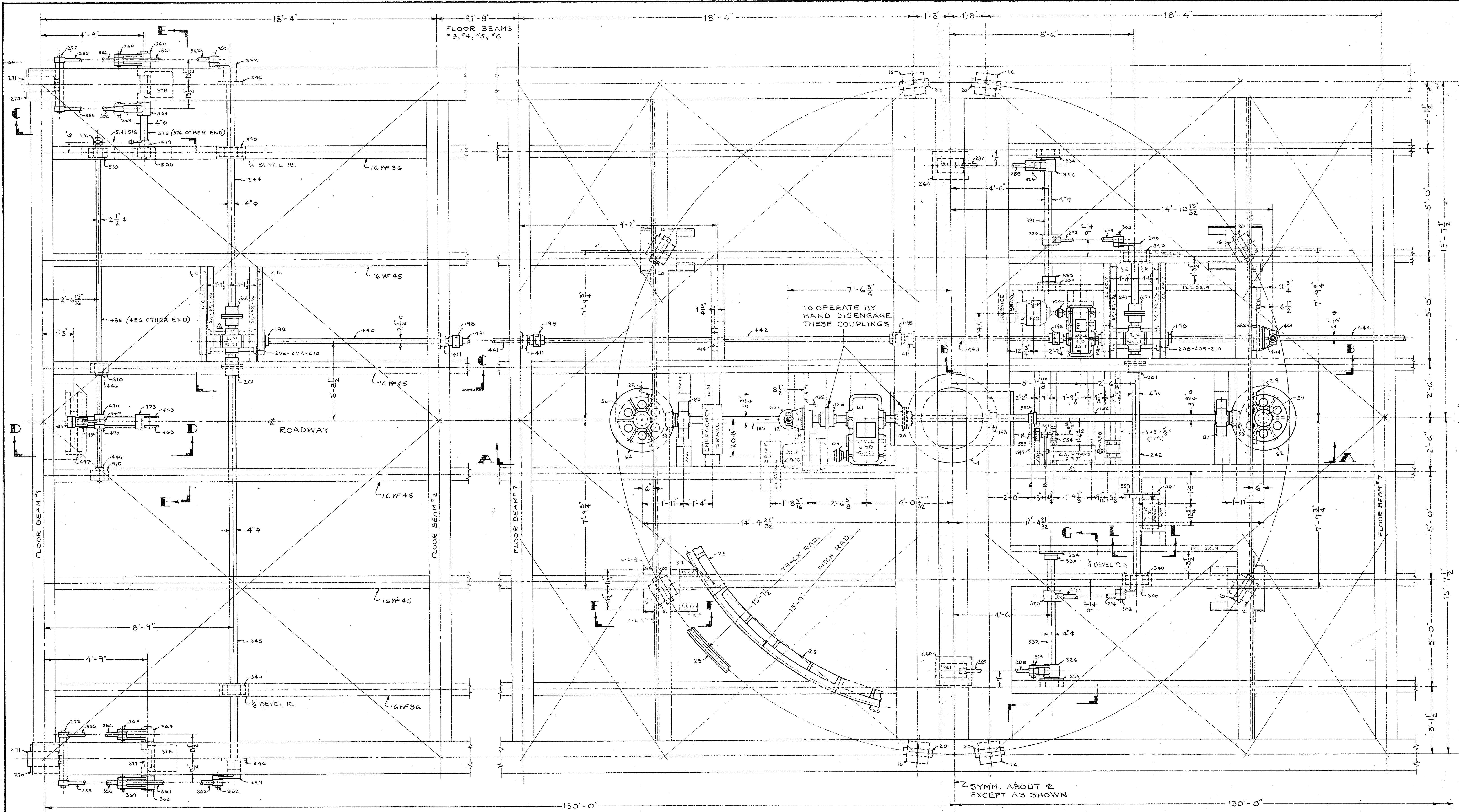
S.O. D-7935 CONTRACT B.11907

LATCH & MISC. DETAILS
ALLIGATOR RIVER SWAN SPAN
OVER ALLIGATOR RIVER
TYRRELL-DARE COUNTY, N.C.

THE EARLE GEAR AND MACHINE COMPANY
4707 TO 4715 STENTON AVENUE
PHILADELPHIA 44, PA.

GENERAL NOTES
ALL STEEL CASTINGS & FORGINGS TO BE ANNEALED
SPOT FACE FOR ALL BOLT HEADS & NUTS
SCRIBE PITCH LINES ON BOTH SIDES OF ALL GEARS
SHOP PAINT—ONE COAT—RED LEAD (SEE SPEC)
FINISHED SURFACES COATED—NO-OX-ID
CUT OIL GROOVES IN ALL BEARINGS UNLESS NOTED
ALL SHIMS TO BE DRILLED

DRAWN BY: A.J.C. 7-11-60 APPROVED BY: S.H.C. 9-9-60
CHECKED BY: R.P. 7-14-60 REV. APPROV.:
DATE: 8-2-60 REV. APPROV.:
SHEET 9 OF 11 DWG. NO. 6859 E-30



DATE	BY	REVISIONS
2-1-61	AJC	RELOCATED R.H. & L.H. WORM UNITS
9-1-60	AJC	LOCATED WEDGE LIMIT SWITCH

SPECIFICATIONS AASHO & SPECIAL PROVISIONS
 INSPECTION FROEHLING & ROBERTSON, INC.

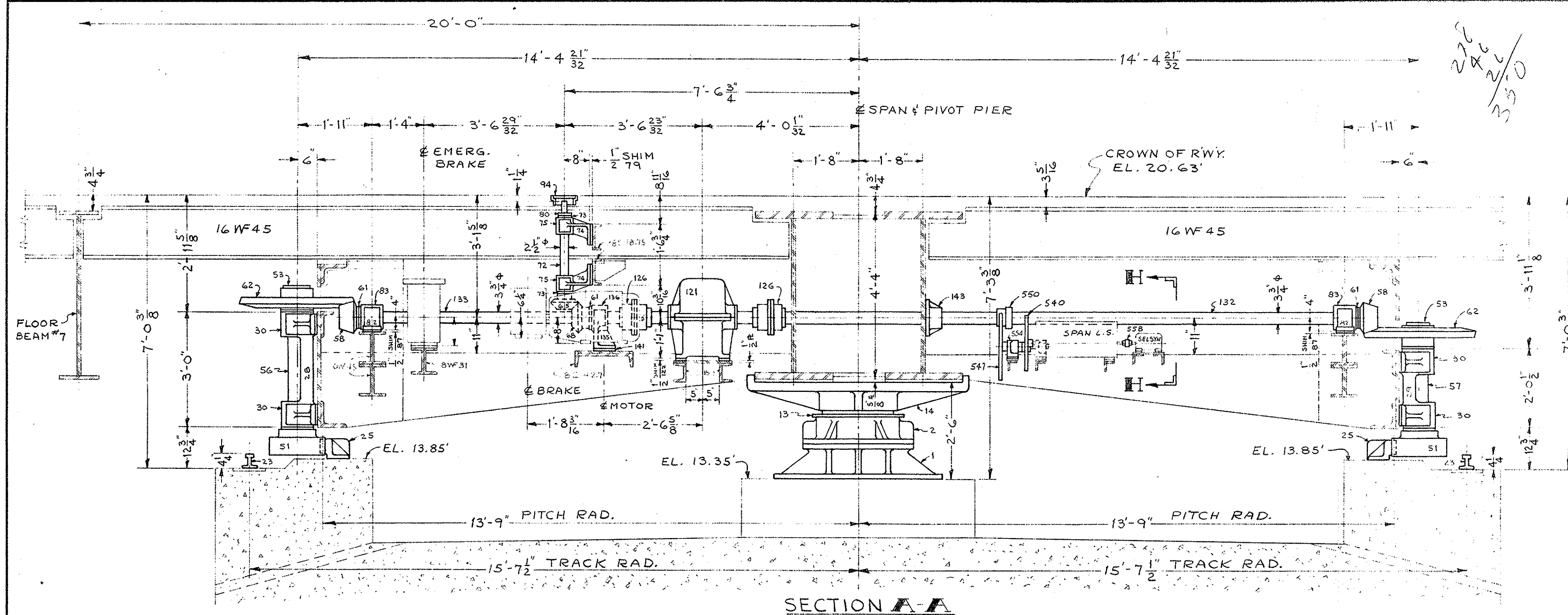
GENERAL NOTES
 ALL STEEL CASTINGS & FORGINGS TO BE ANNEALED
 SPOT FACE FOR ALL BOLT HEADS & NUTS
 SCRIBE PITCH LINES ON BOTH SIDES OF ALL GEARS
 SHOP PAINT—ONE COAT—
 FINISHED SURFACES COATED—
 CUT OIL GROOVES IN ALL BEARINGS UNLESS NOTED
 ALL SHIMS TO BE DRILLED

S.O. D-7935 CONTRACT 8.11907

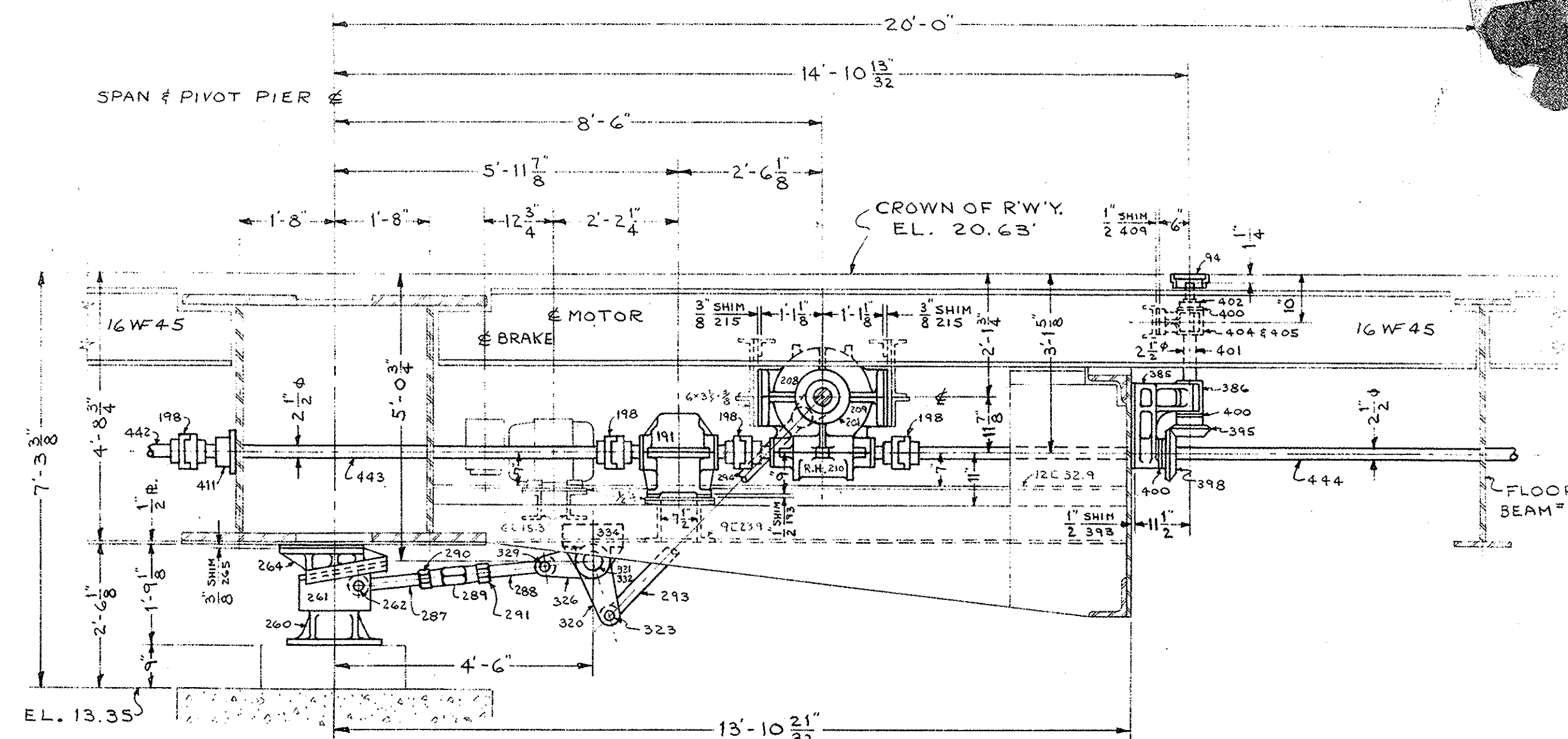
MACHINERY ASSEMBLY
 ALLIGATOR RIVER SWING SPAN
 OVER ALLIGATOR RIVER
 TYRRELL-DARE COUNTY, N.C.

THE EARLE GEAR AND MACHINE COMPANY
 4707 TO 4715 STENTON AVENUE
 PHILADELPHIA 44, PA.

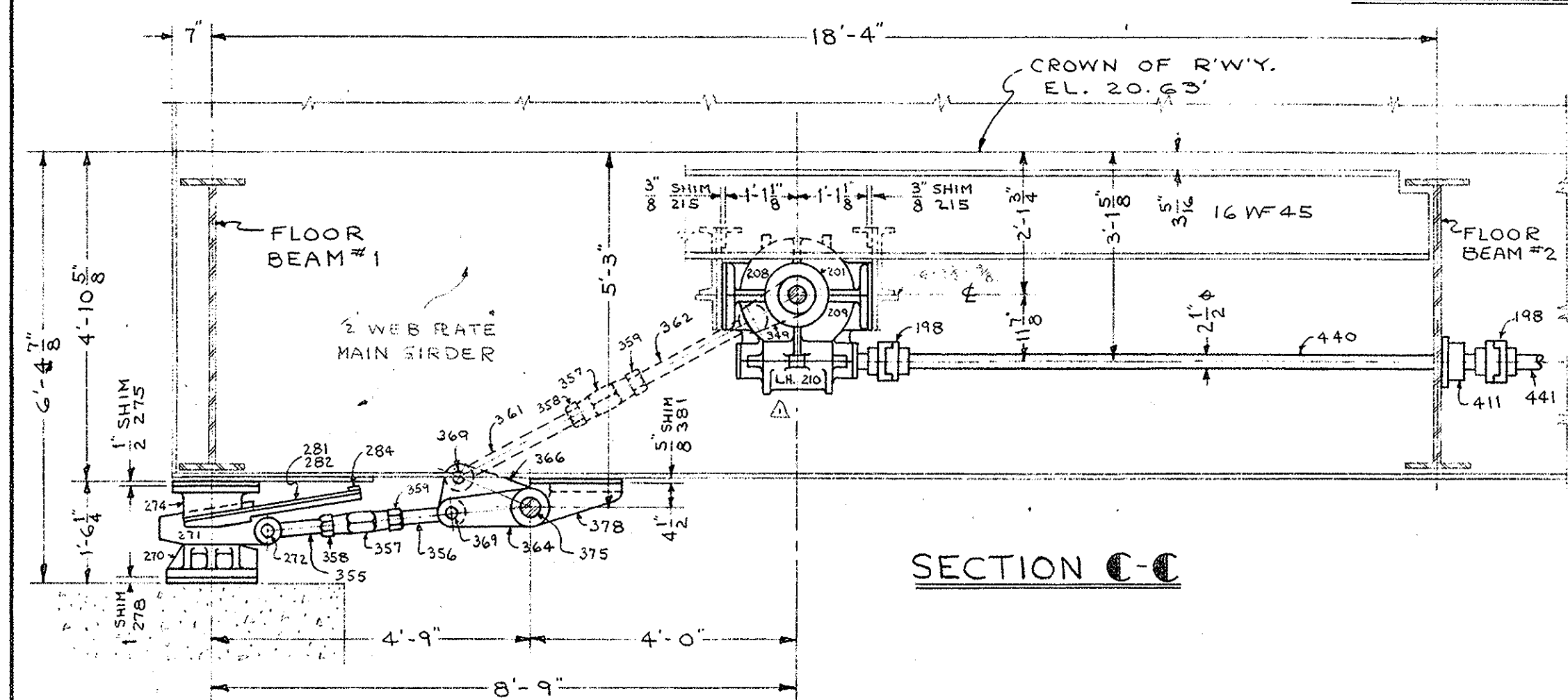
DRAWN BY A.J.C. 8-15-60 APPROVED BY S.H.C. 9-9-60
 CHECKED BY T.B. 8-23-60 REV. APPVD.
 DATE REV. APPVD.
 SHEET 10 OF 11 DWG. NO. 6860 E-30



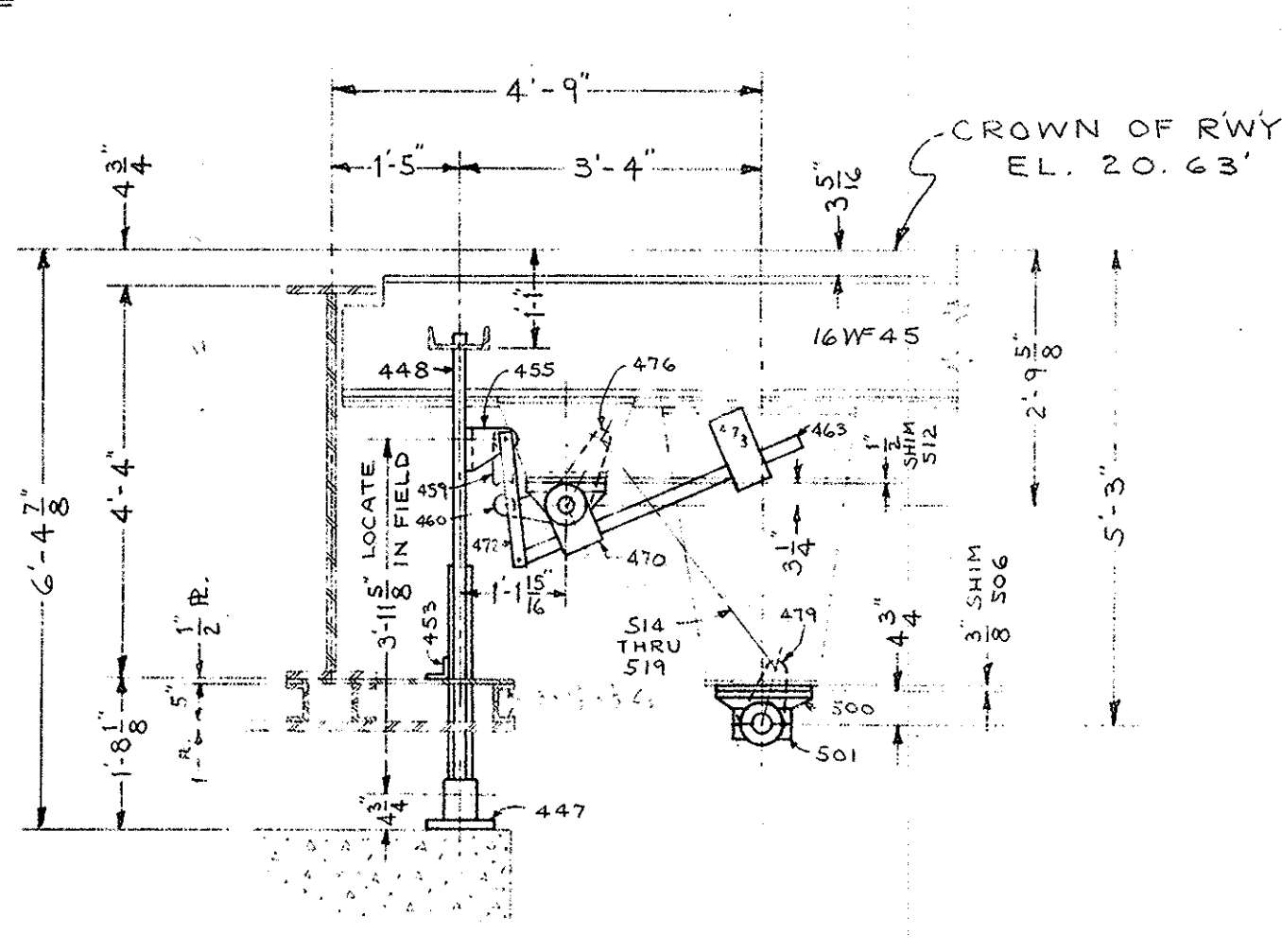
SECTION A-A



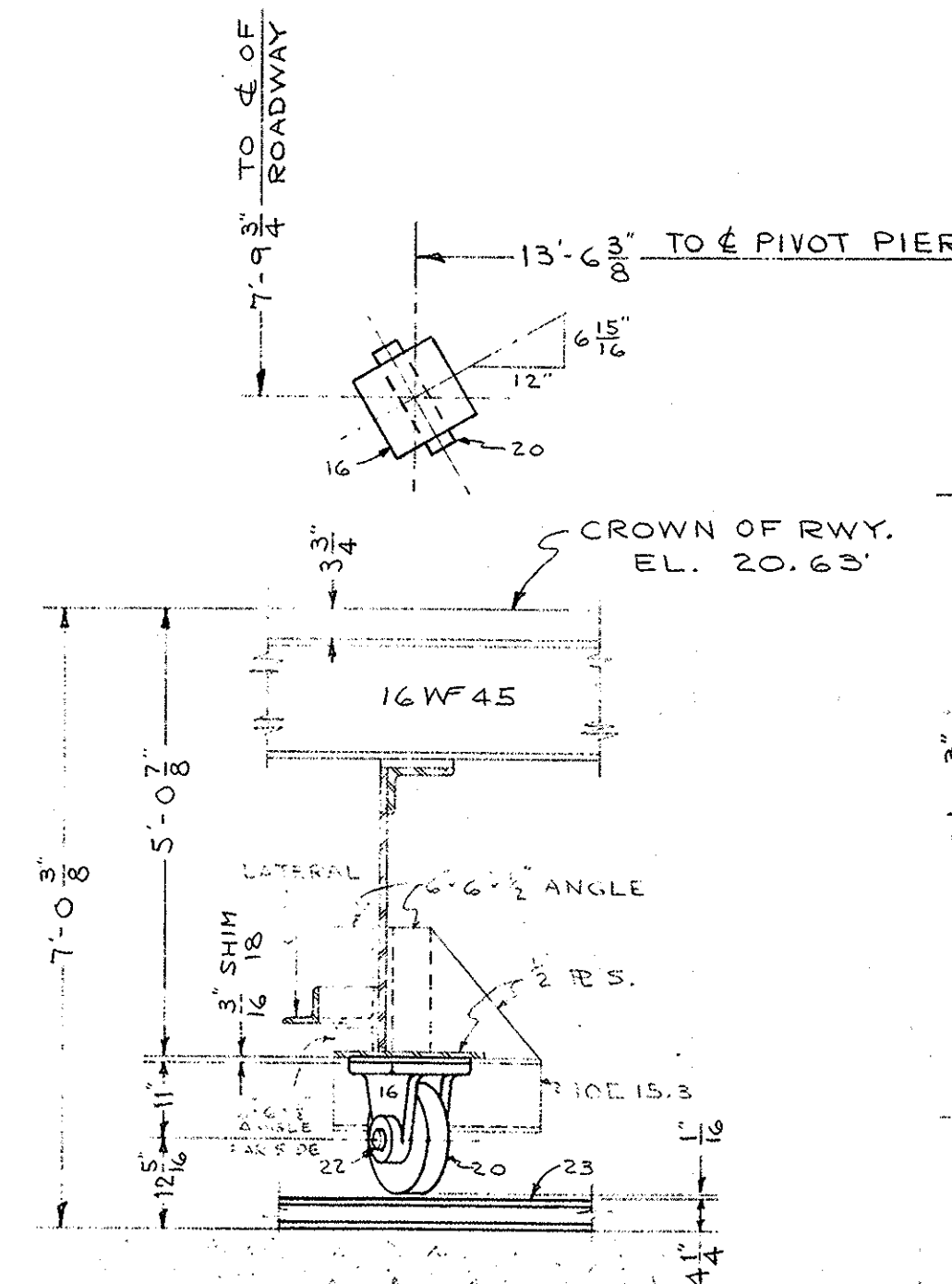
SECTION B-B



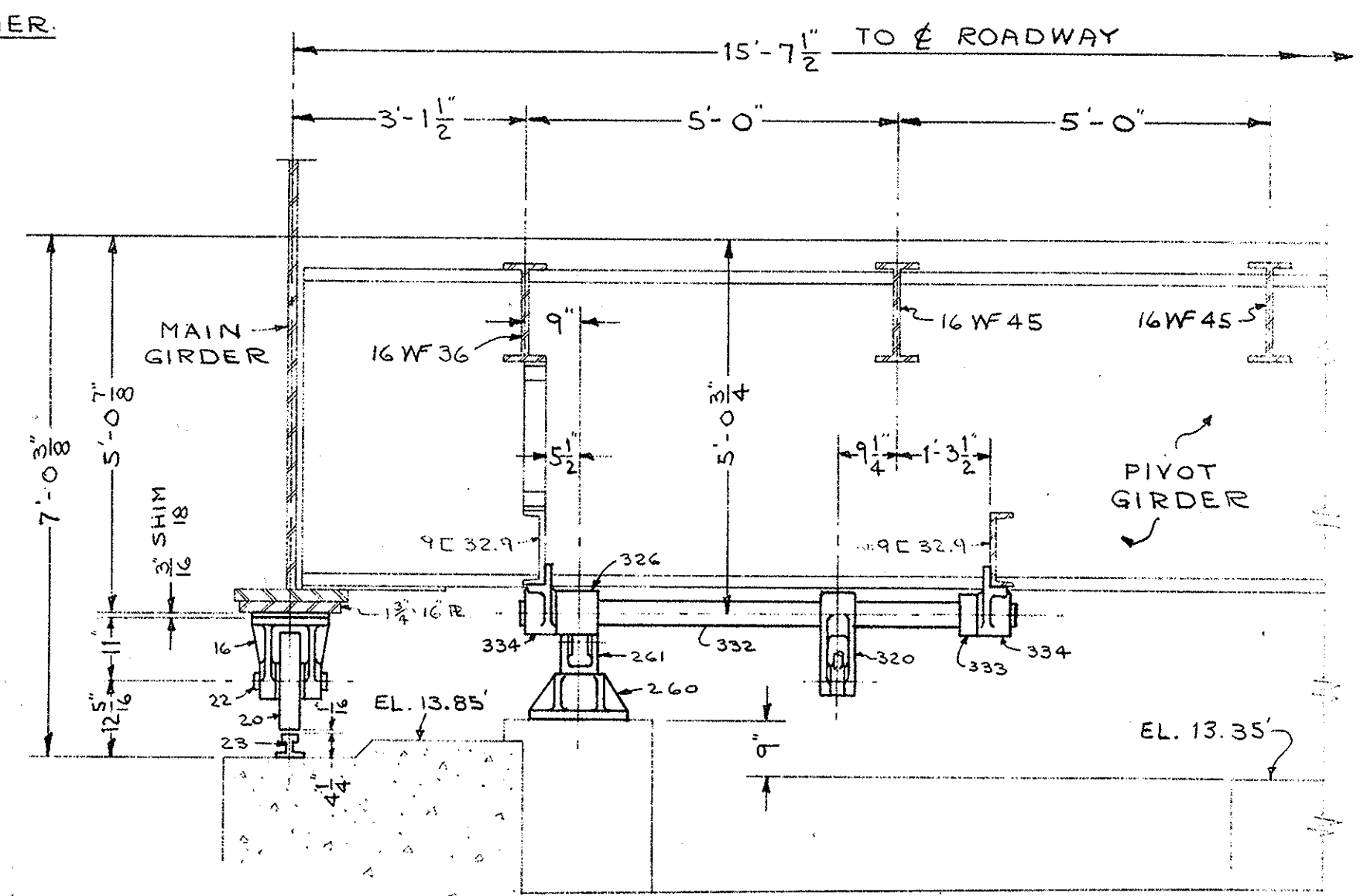
SECTION C-C



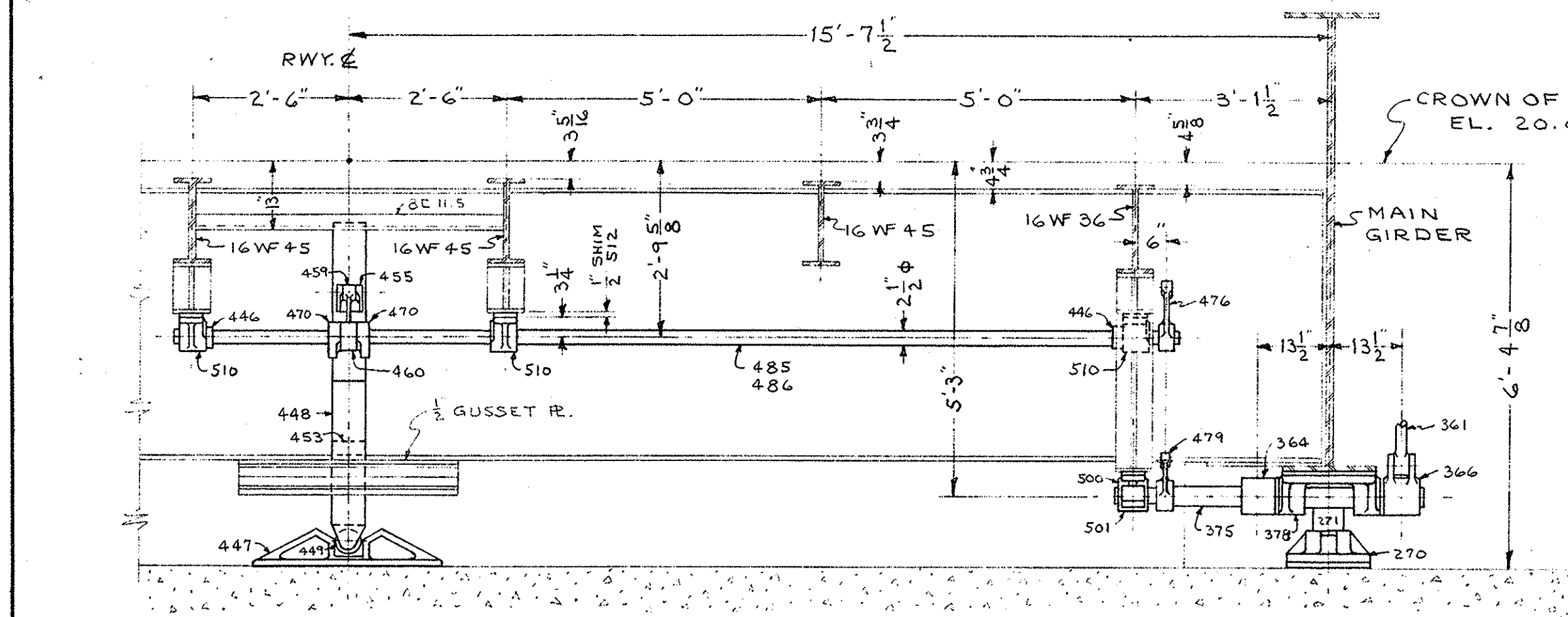
SECTION D-D



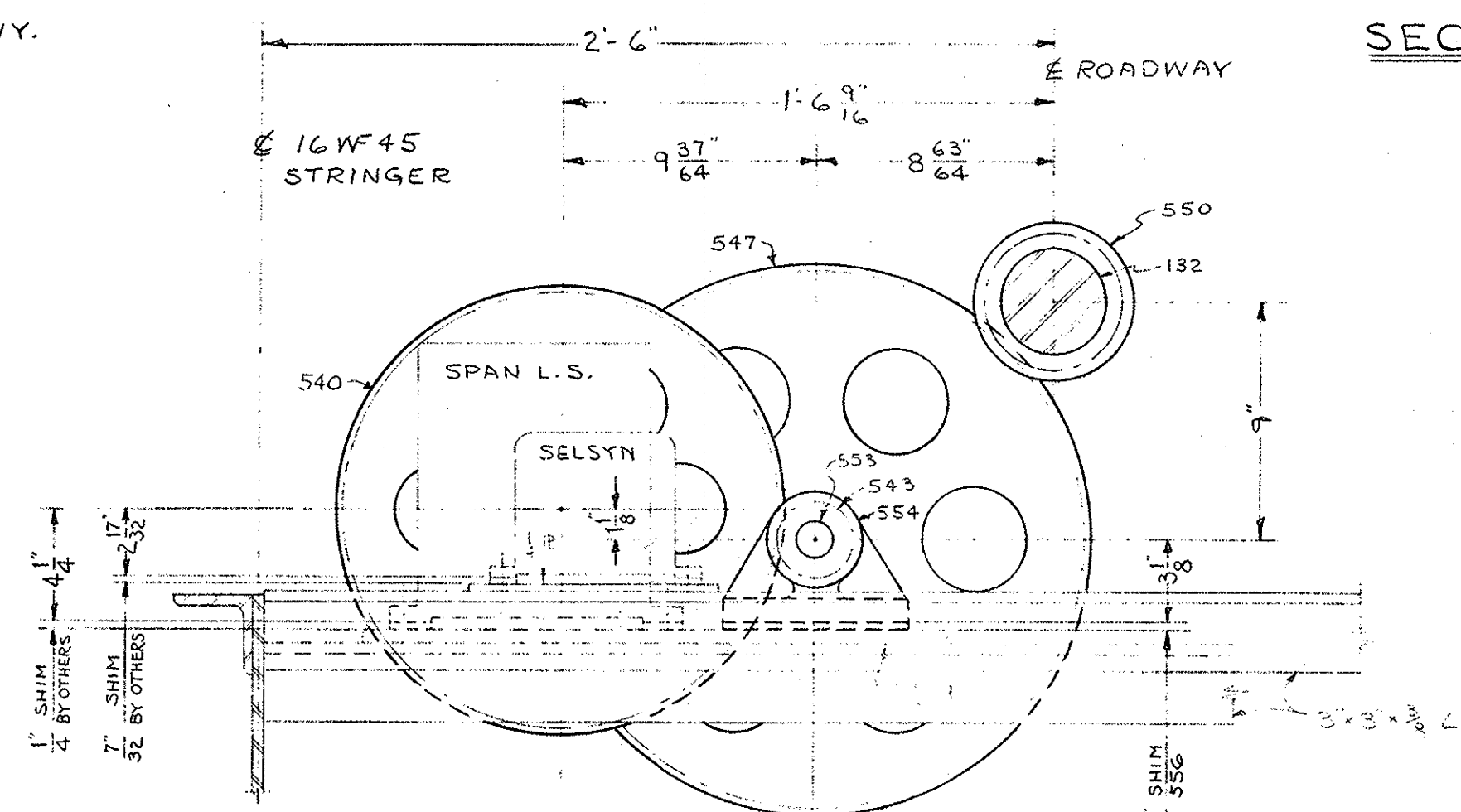
SECTION E-E



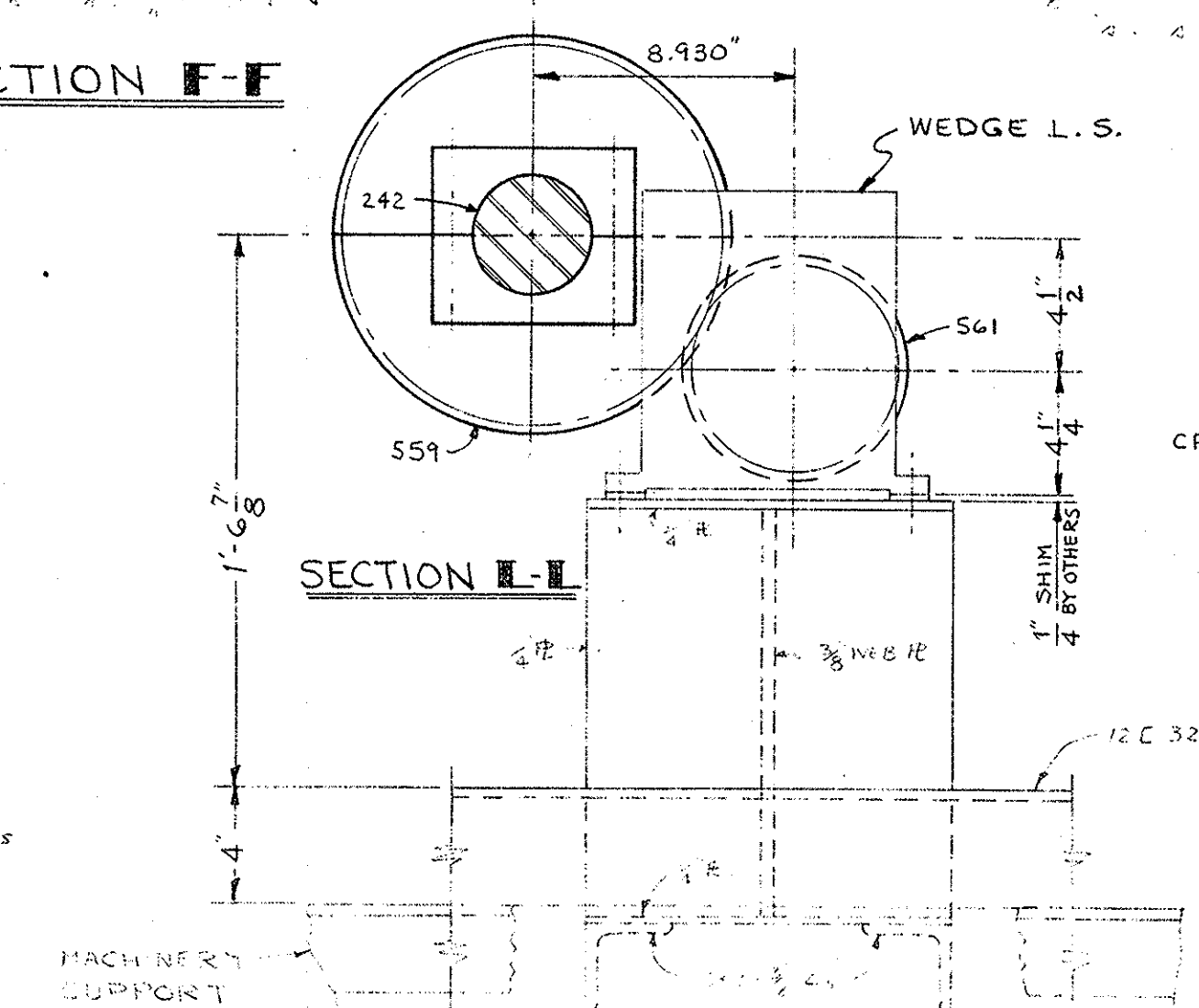
SECTION F-F



SECTION G-G



SECTION H-H



SECTION I-I

$86.6' \times \frac{32.4}{15} \times \frac{71}{18} \times \frac{36}{142} \times \frac{20}{117} = 319.7'$ ROTATION FOR SWING SPAN L.S. & SELSYN

$180' \times \frac{64}{36} = 320'$ ROTATION FOR WEDGE L.S.

SPECIFICATIONS AASHTO & SPECIAL PROVISIONS
INSPECTION FROEHLING & ROBERTSON, INC.

GENERAL NOTES
ALL STEEL CASTINGS & FORGINGS TO BE ANNEALED
SPOT FACE FOR ALL BOLT HEADS & NUTS
SCRIBE PITCH LINES ON BOTH SIDES OF ALL GEARS
SHOP PAINT—ONE COAT—
FINISHED SURFACES COATED—
CUT OIL GROOVES IN ALL BEARINGS UNLESS NOTED
ALL SHIMS TO BE DRILLED

S. O. D-7935 CONTRACT 8-11907
MACHINERY ASSEMBLY
ALLIGATOR RIVER SWING SPAN
OVER ALLIGATOR RIVER
TYRRELL-DARE COUNTY, N.C.

THE EARLE GEAR AND MACHINE COMPANY
4707 TO 4715 STENTON AVENUE
PHILADELPHIA 44, PA.

DRAWN BY A.J.C. 8-23-60 APPROVED BY S.H.C. 9-9-60
CHECKED BY J.P. 8-23-60 REV. APPVD.
DATE: REV. APPVD.
SHEET 11 OF 11 DWG. NO. 6861 E-30

DATE	BY	REVISIONS
2-1-61	AJC	L.H. WORM UNIT WAS R.H.

