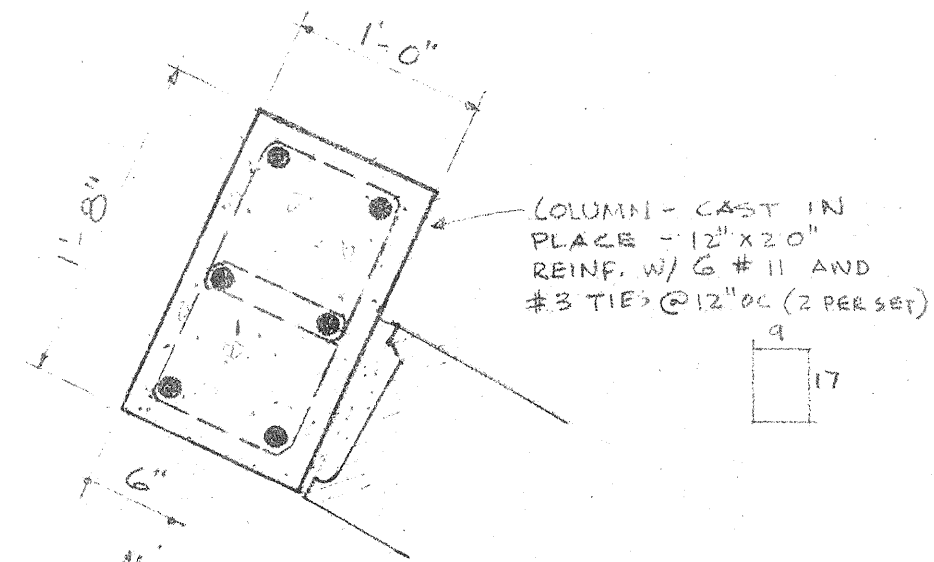
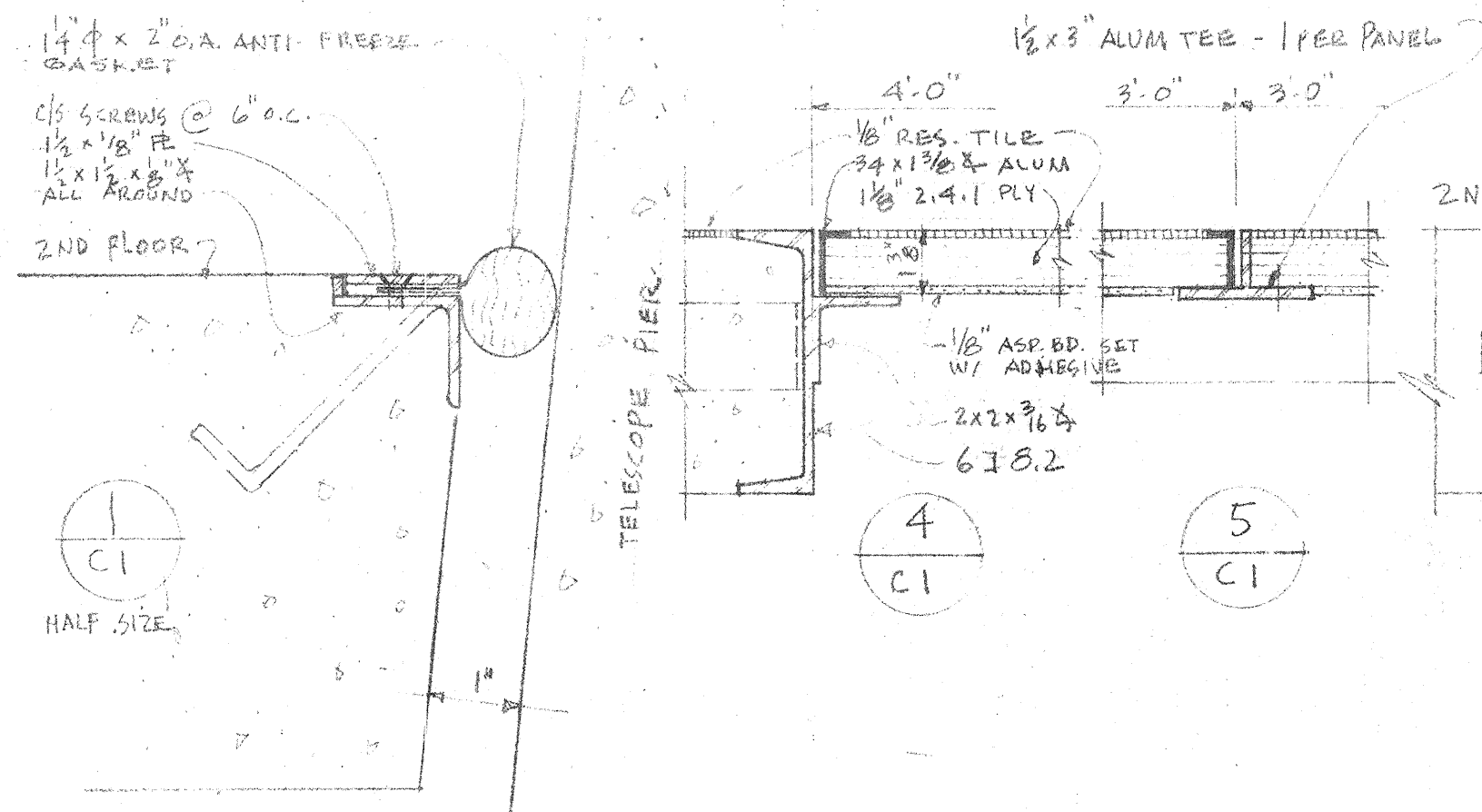


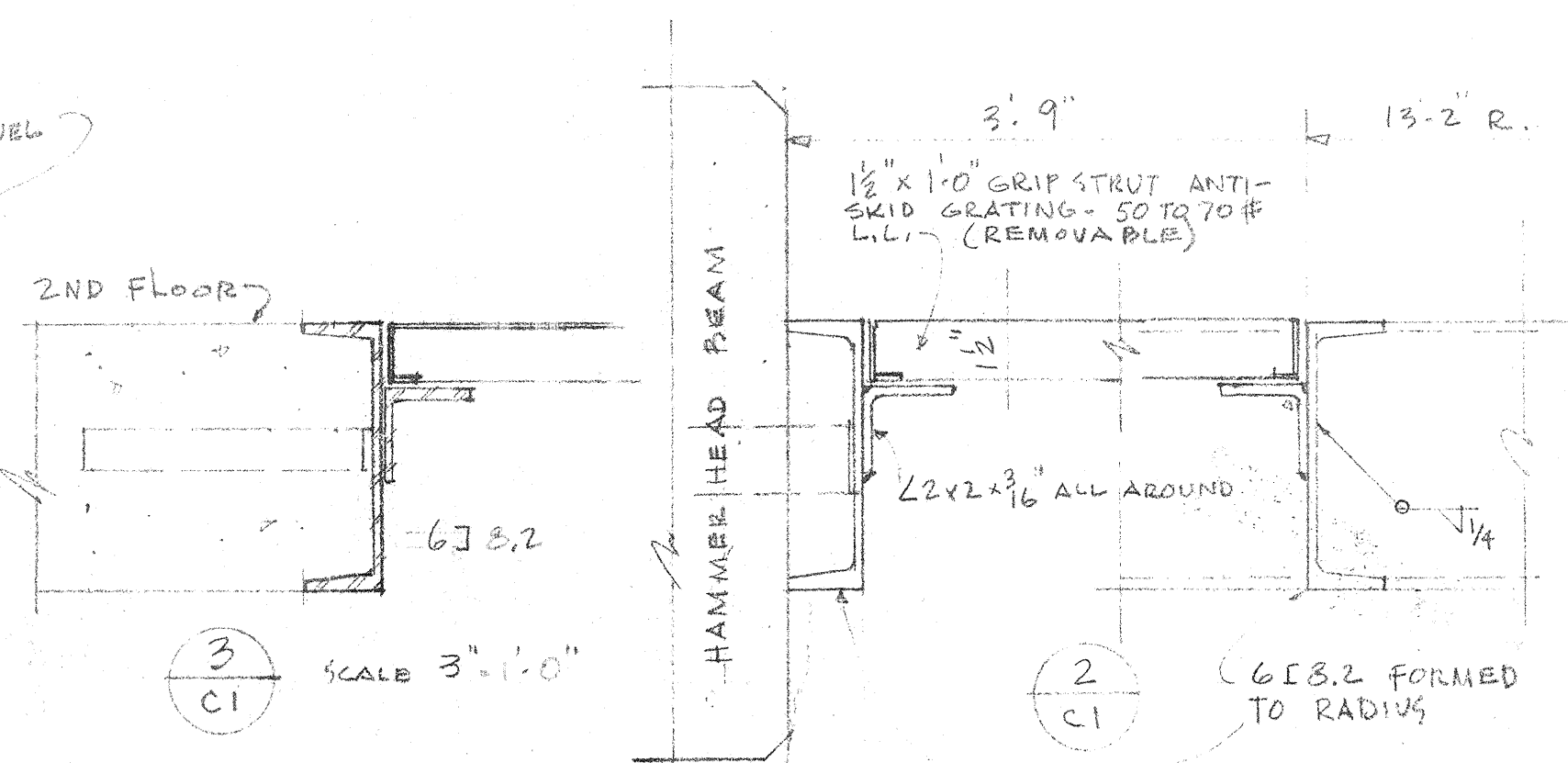
TYPICAL LINTEL BEAM DETAIL  
SCALE 1/2" = 1'-0"



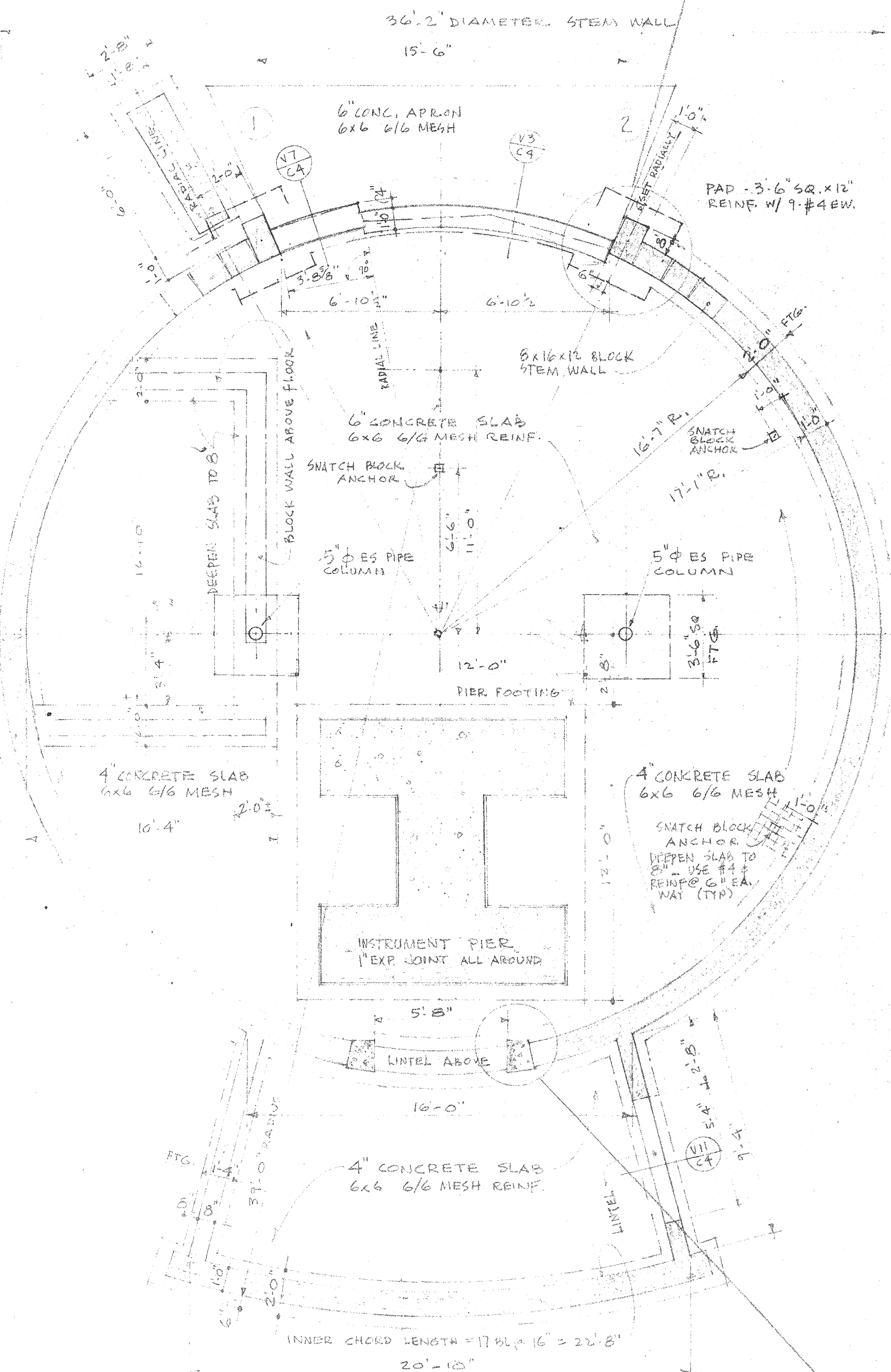
COLUMN DETAIL  
SCALE 1" = 1'-0"  
ALSO SEE H4/C4



TELESCOPE PIER  
SCALE 1/2" = 1'-0"

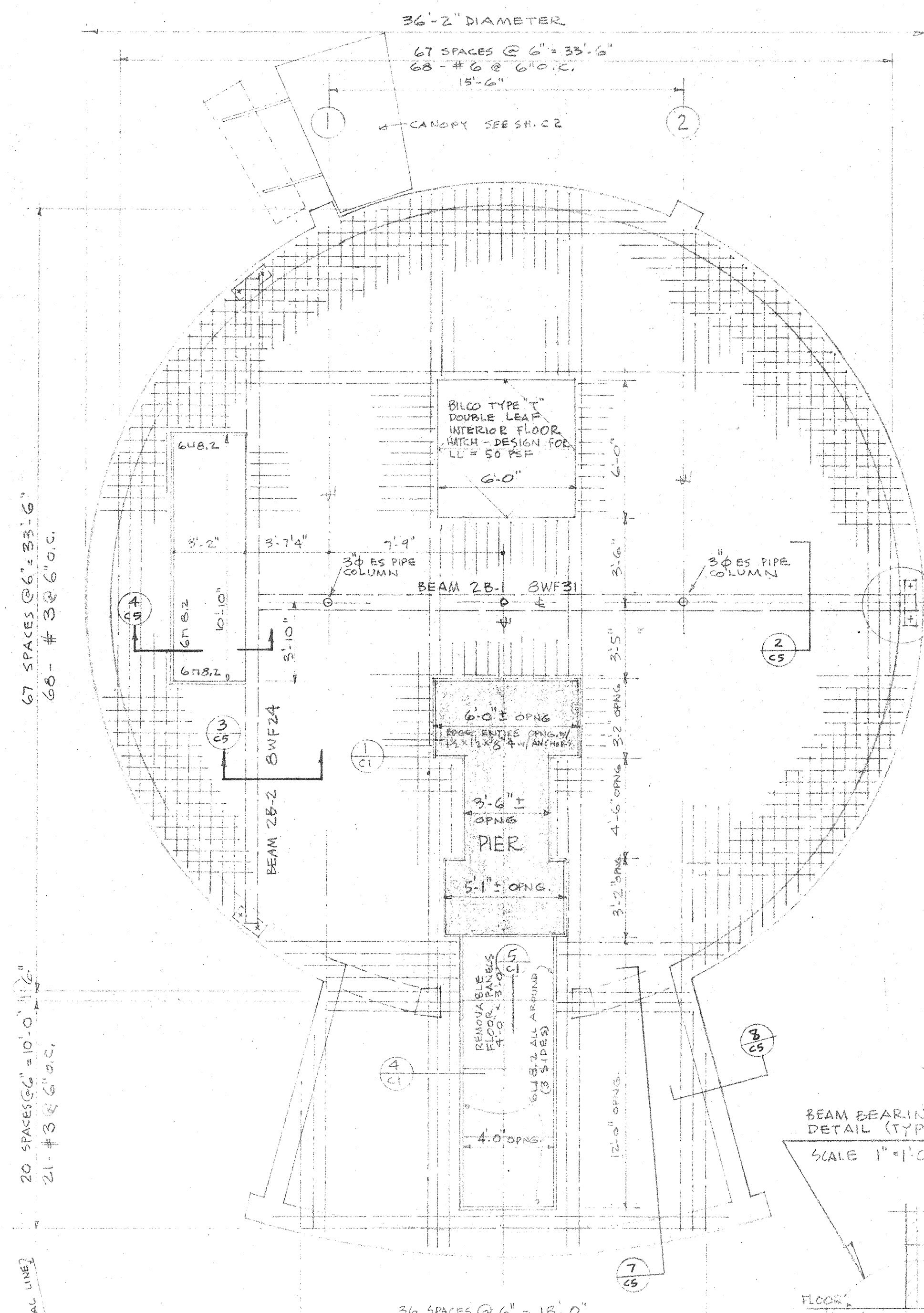


HAMMER HEAD BEAM  
SCALE 3/4" = 1'-0"



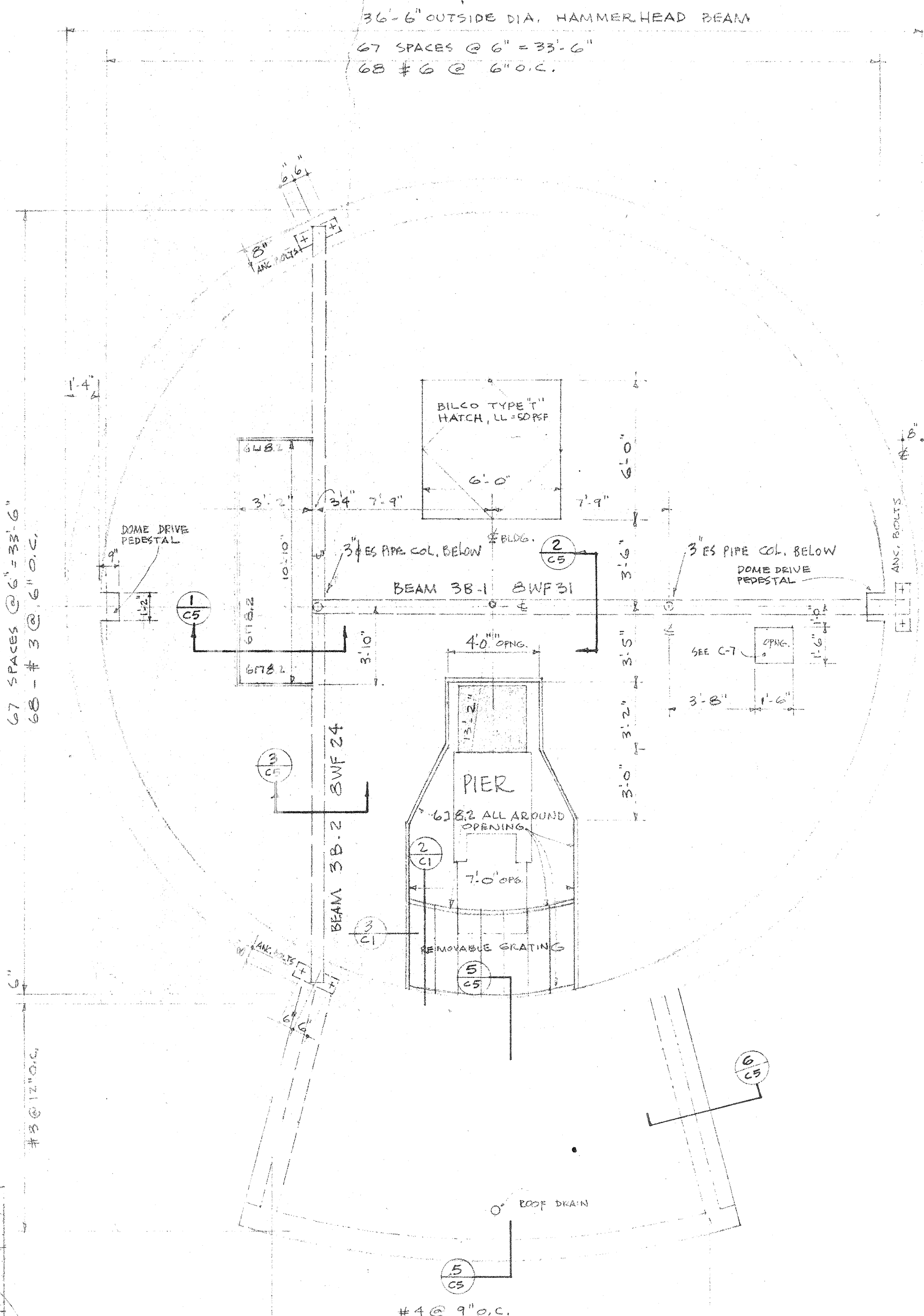
FOUNDATION & FOOTING PLAN  
SCALE 1/4" = 1'-0"

NOTE: NORTH LINE TO BE DETERMINED BY STEWARD OBSERVATORY



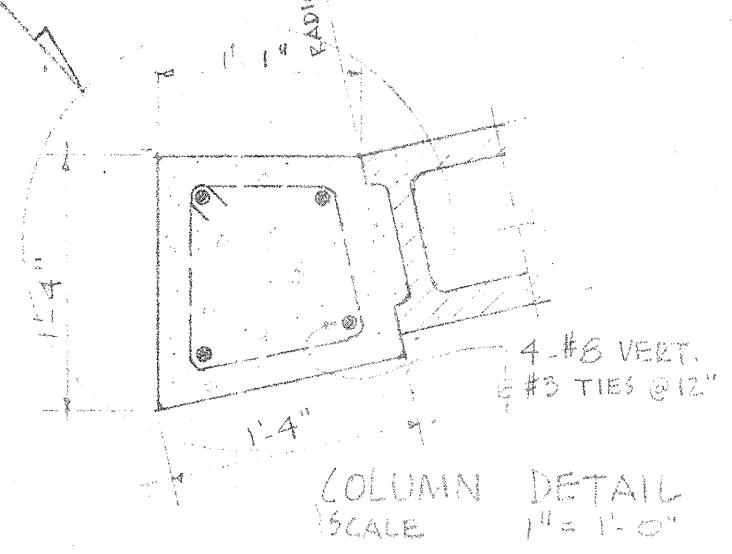
SECOND FLOOR PLAN

BASE PLATES 9x3x12 w/ 2-3/4" x A.B. x 12"  
SOLID GROUTED BRG. BLOCK 23" DEEP x 64" w/ 2-#4 TOP & BOTTOM

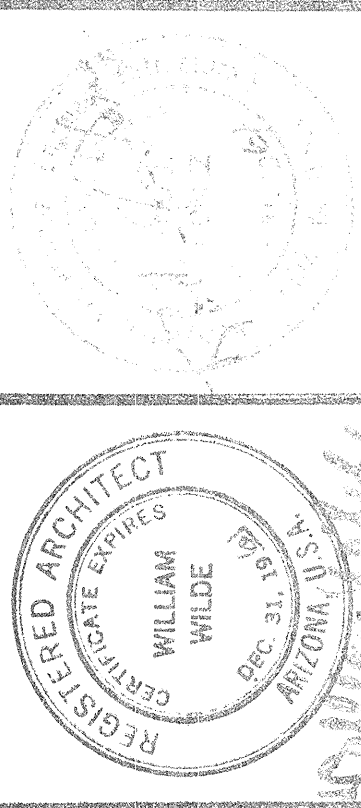


DOMES (THIRD) FLOOR PLAN

SCALE 1/4" = 1'-0"



COLUMN DETAIL  
SCALE 1" = 1'-0"



WILLIAM WILDE ARCHITECT · AIA  
ARCHITECTURE · INDUSTRIAL DESIGN · SPACE PLANNING  
151 SOUTH TUCSON BOULEVARD TUCSON, ARIZONA · EA 533975

STEWART OBSERVATORY  
UNIVERSITY OF ARIZONA  
KITT PEAK

OBSERVATORY  
FOUNDATION & FOOTING PLANS  
2ND & 3RD FLOOR STRUCTURAL PLANS  
WIND SCREEN DETAILS

DRAWING  
ISSUE DATE  
10-0-61  
COMMISSION  
6-1859  
C-1



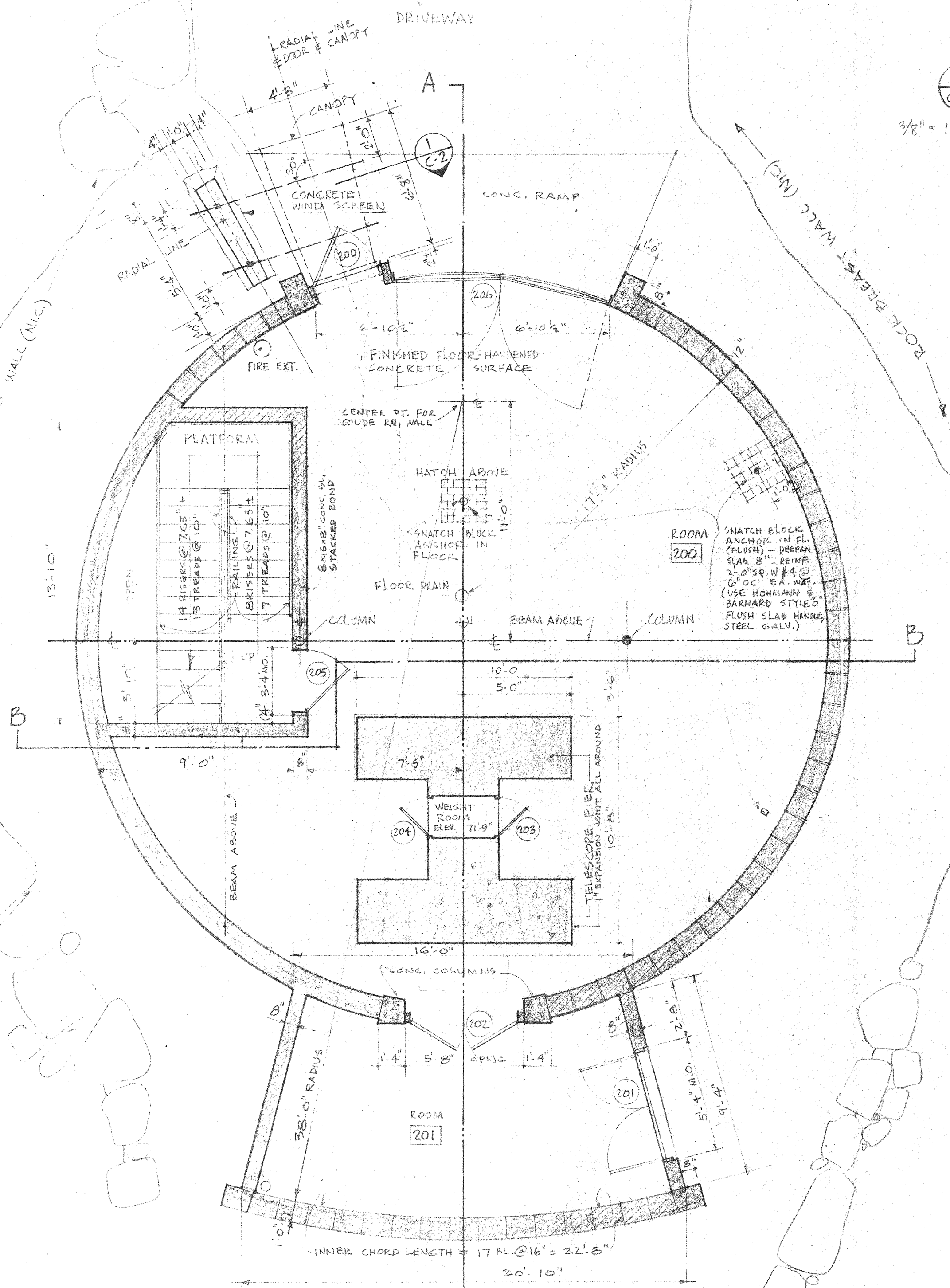
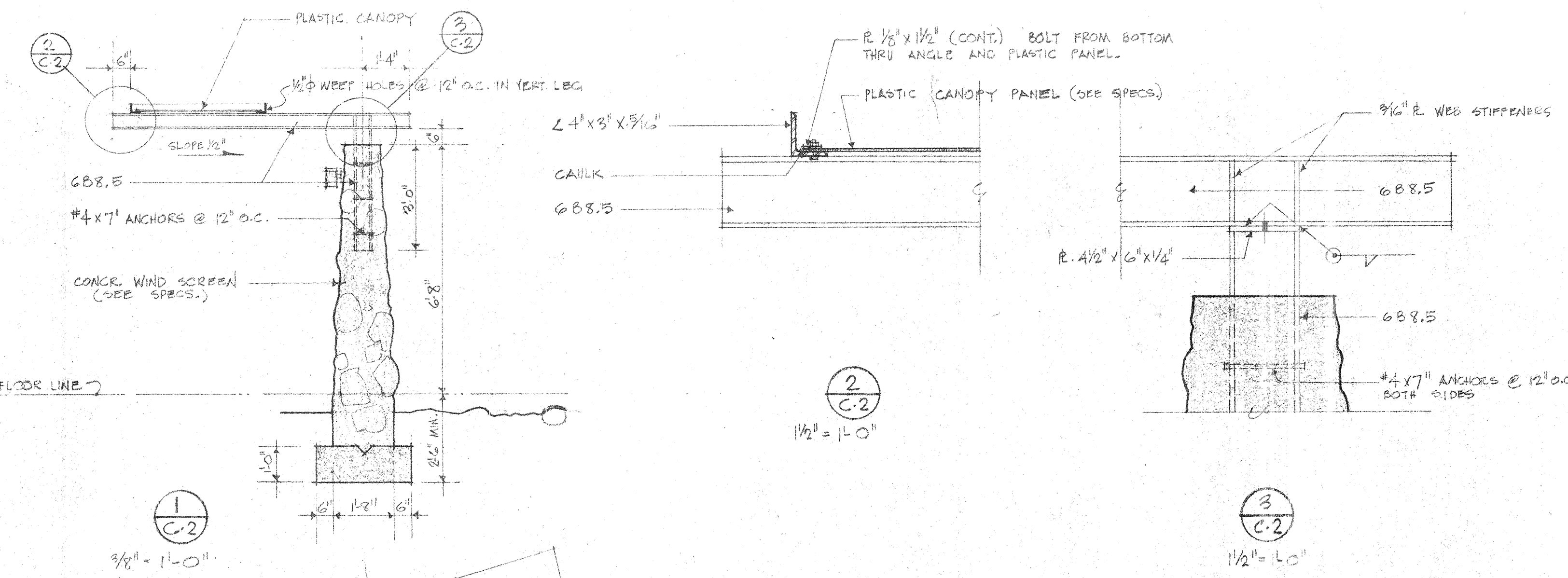
REGISTERED ARCHITECT  
WILLIAM WILDE  
DES. 31,171  
ARIZONA

**AIA**  
WILLIAM WILDE · ARCHITECT  
ARCHITECTURE · INDUSTRIAL DESIGN · SPACE PLANNING  
151 SOUTH TUCSON BOULEVARD · TUCSON, ARIZONA · EA 5-3373

**STEWARD OBSERVATORY  
UNIVERSITY OF ARIZONA  
KITTE PEAK**

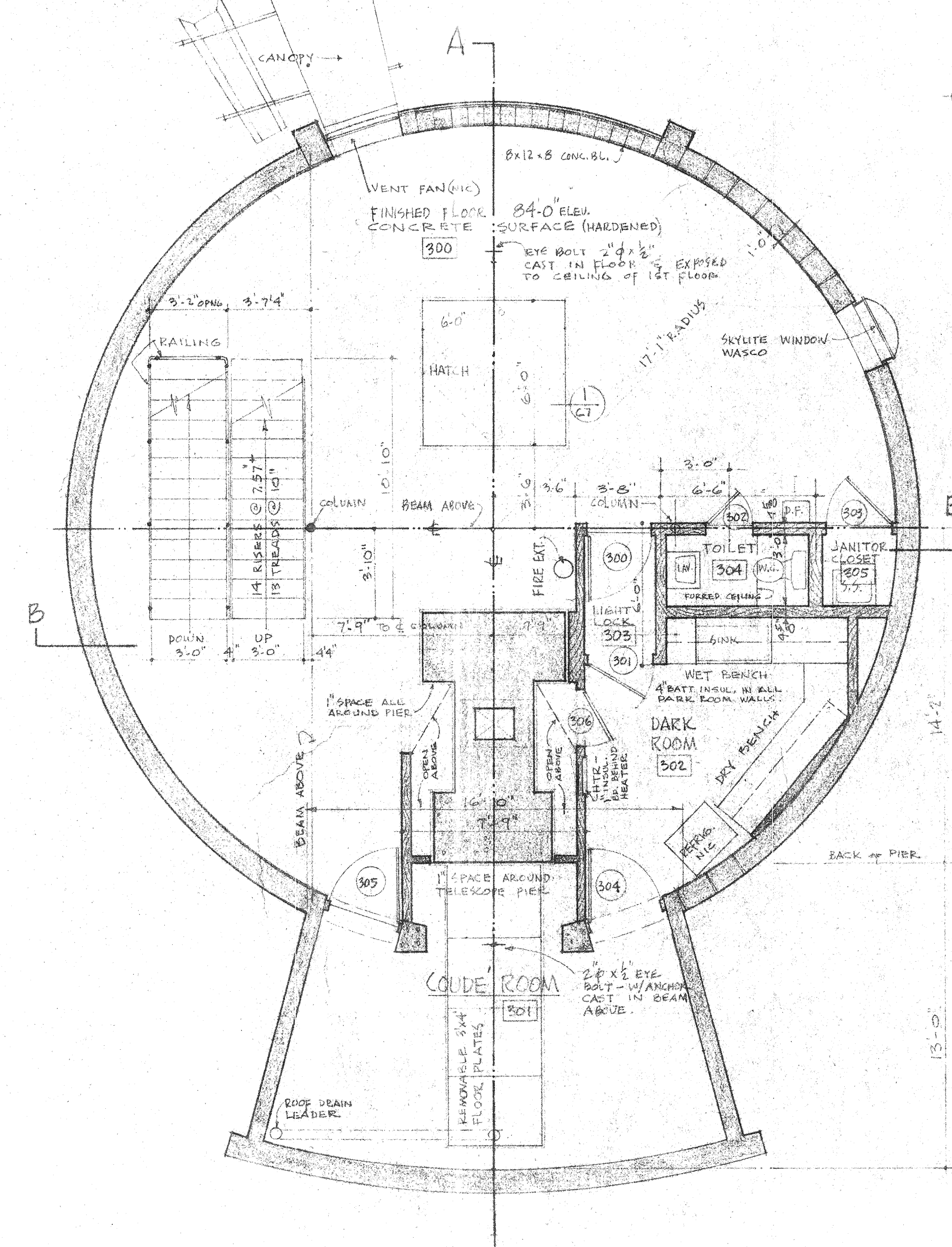
**OBSERVATORY  
FIRST, SECOND & DOME LEVEL PLANS**

DRAWING  
ARCH  
C-2  
ISSUE DATE  
10-2-61  
COMMISSION  
6-18-59

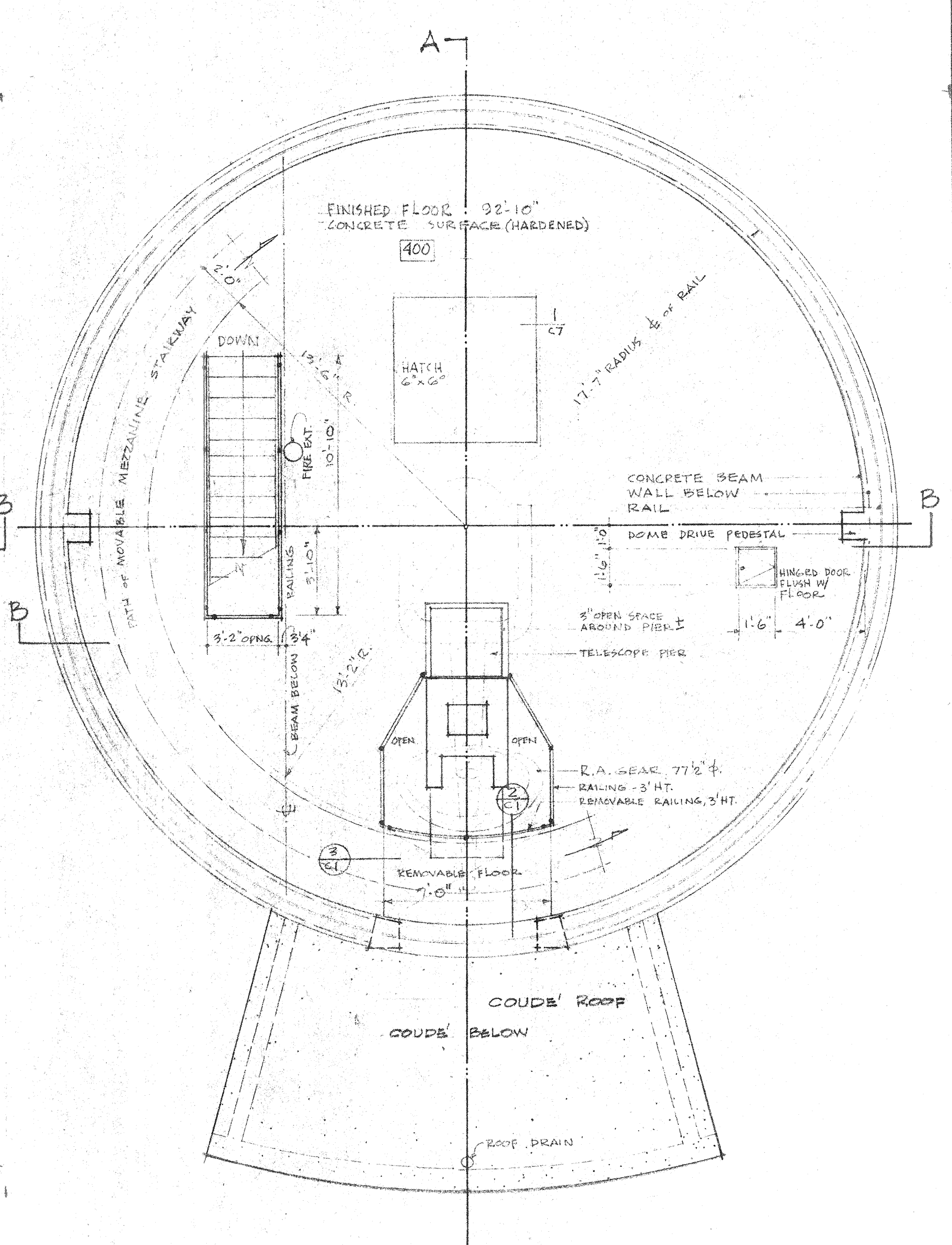


FIRST FLOOR PLAN  
SCALE 1/4" = 1'-0"

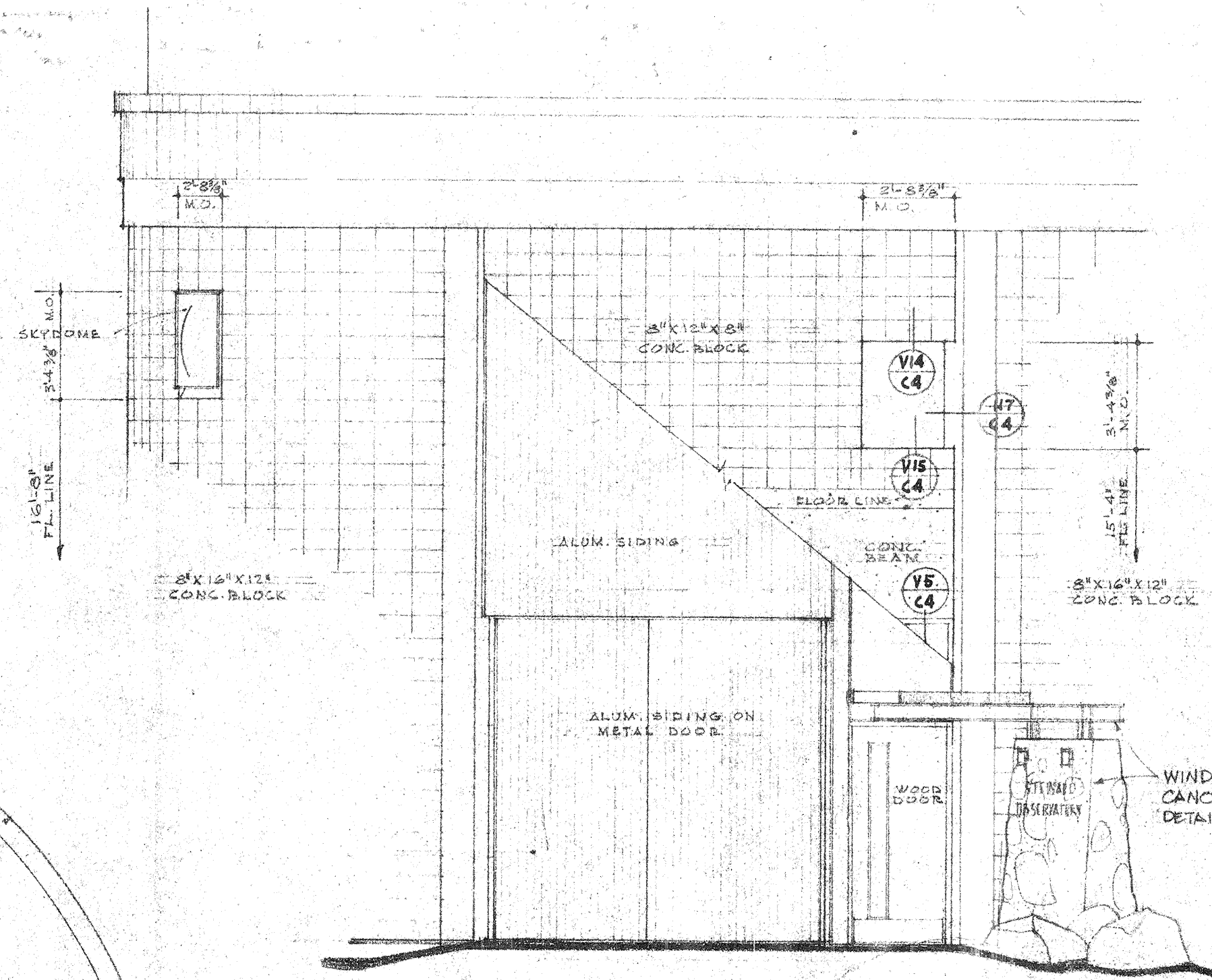
NORTH LINE  
TO BE ESTABLISHED BY  
STEWARD OBSERVATORY



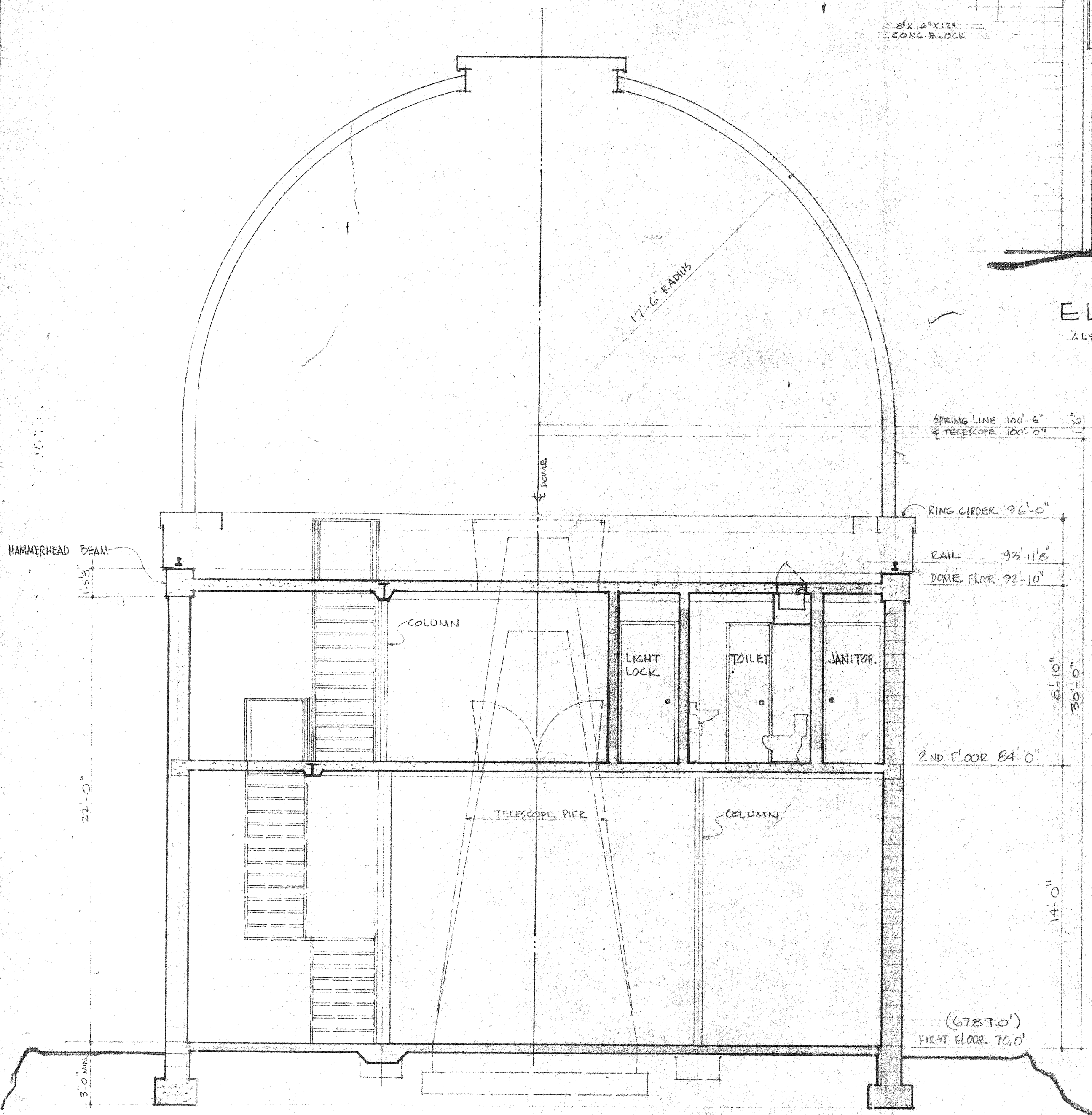
SECOND FLOOR PLAN



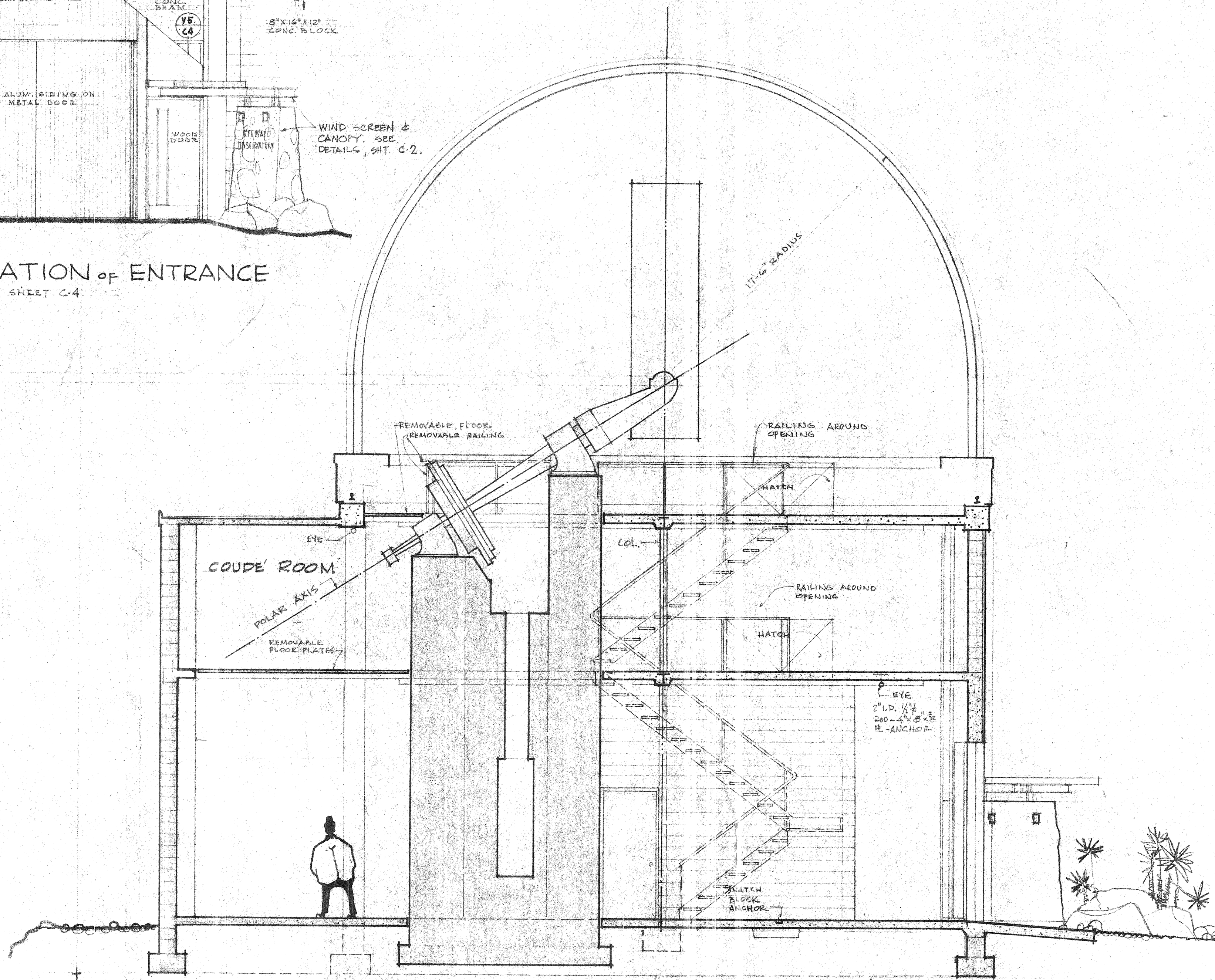
DOME FLOOR PLAN  
SCALE 1/4" = 1'-0"



ELEVATION OF ENTRANCE  
ALSO SEE SHEET C-4

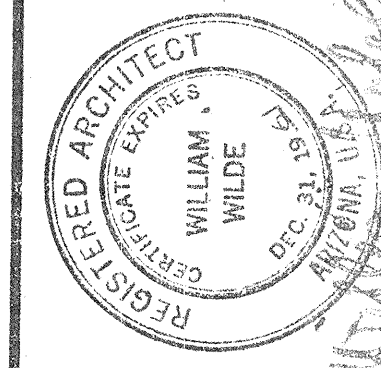
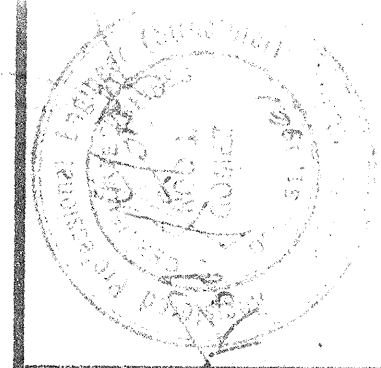


SECTION B  
SCALE 1/4" = 1'-0"



SECTION OF OBSERVATORY (A)

0 1 2.5 5 7.5 10  
1/4" = 1'-0"

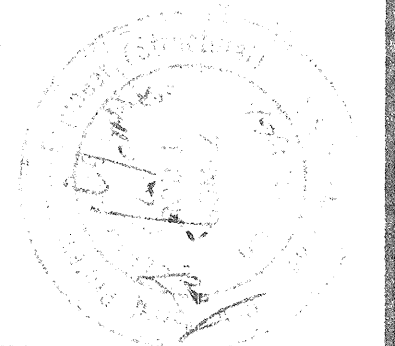


**AIA**  
WILLIAM WILDE · ARCHITECT · ARCHITECTURE · INDUSTRIAL DESIGN · SPACE PLANNING  
151 SOUTH TUCSON BOULEVARD · TUCSON, ARIZONA · EA 8-3373

STEWART OBSERVATORY  
UNIVERSITY OF ARIZONA  
KITT PEAK

OBSERVATORY  
SECTIONS A-A & B-B

DRAWING ARCH C-3  
ISSUE DATE 10-2-61  
COMMISSION 6-1859



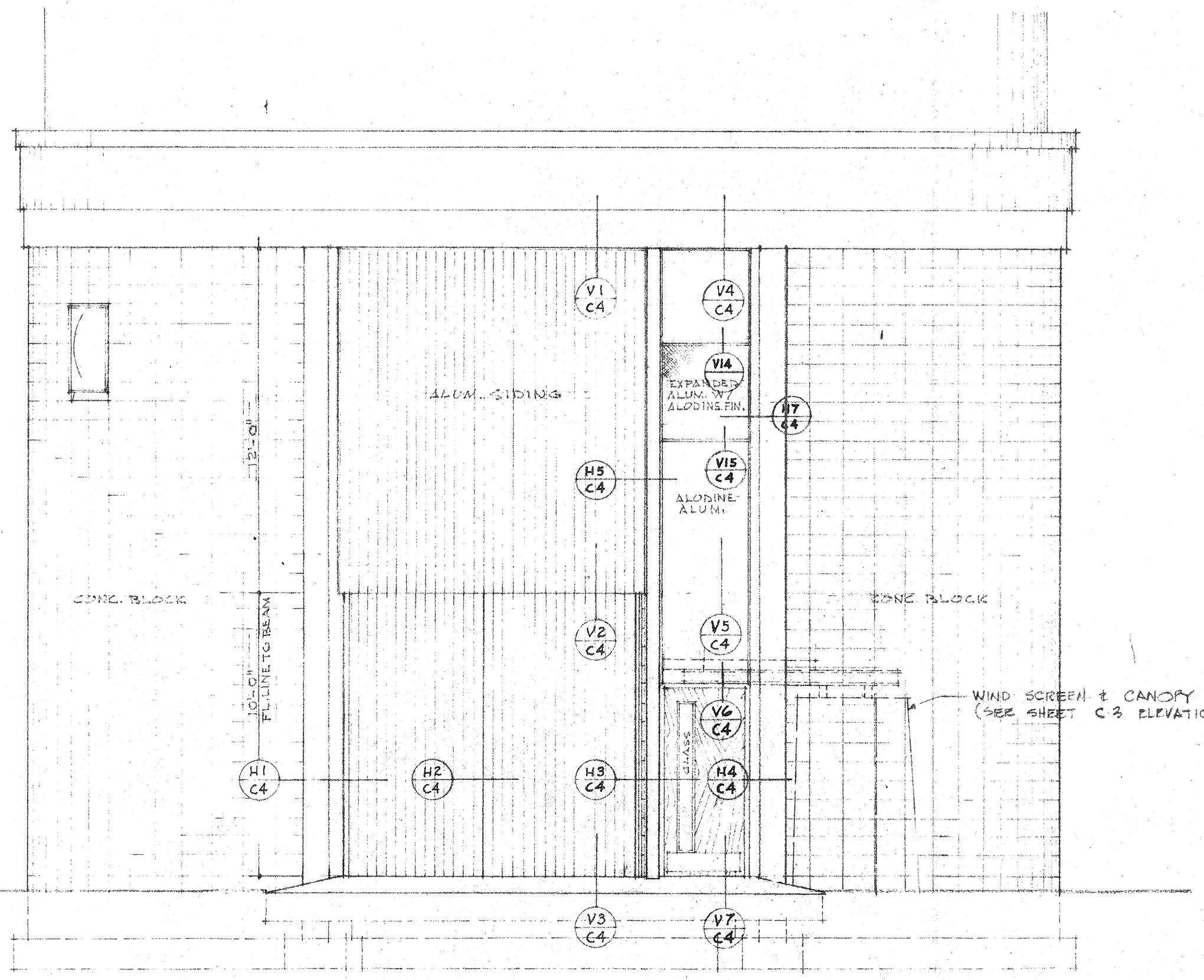
REGISTERED ARCHITECT  
 WILLIAM WILDE  
 DEC. 31, 1989  
 ARIZONA, U.S.A.

**AIA**  
 WILLIAM WILDE ARCHITECT  
 ARCHITECTURE - INDUSTRIAL DESIGN - SPACE PLANNING  
 151 SOUTH TUCSON BOULEVARD TUCSON, ARIZONA - EA 9-3373

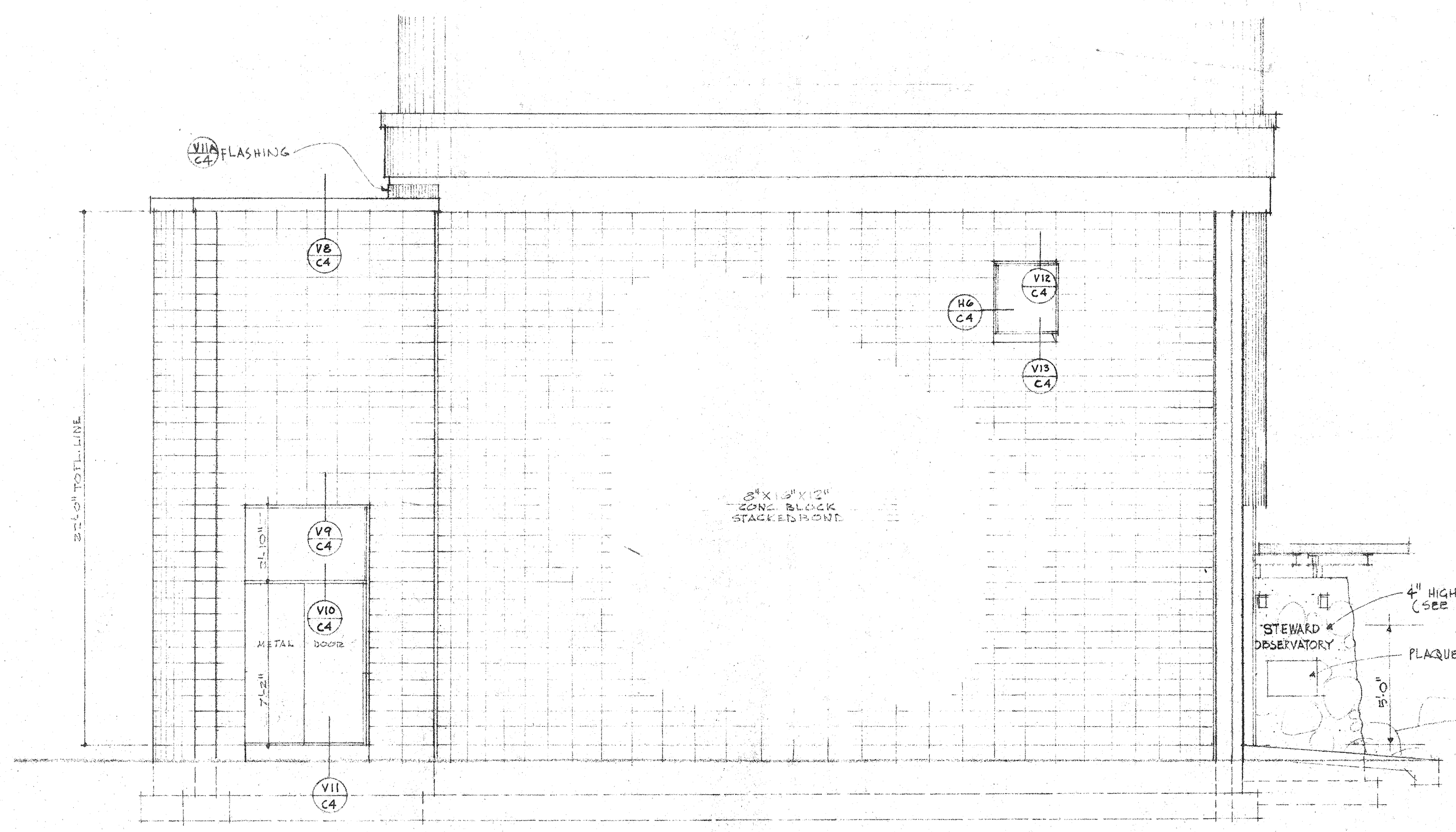
STEWARD OBSERVATORY  
 UNIVERSITY OF ARIZONA  
 KITT PEAK

OBSERVATORY  
 ELEVATIONS & DETAILS

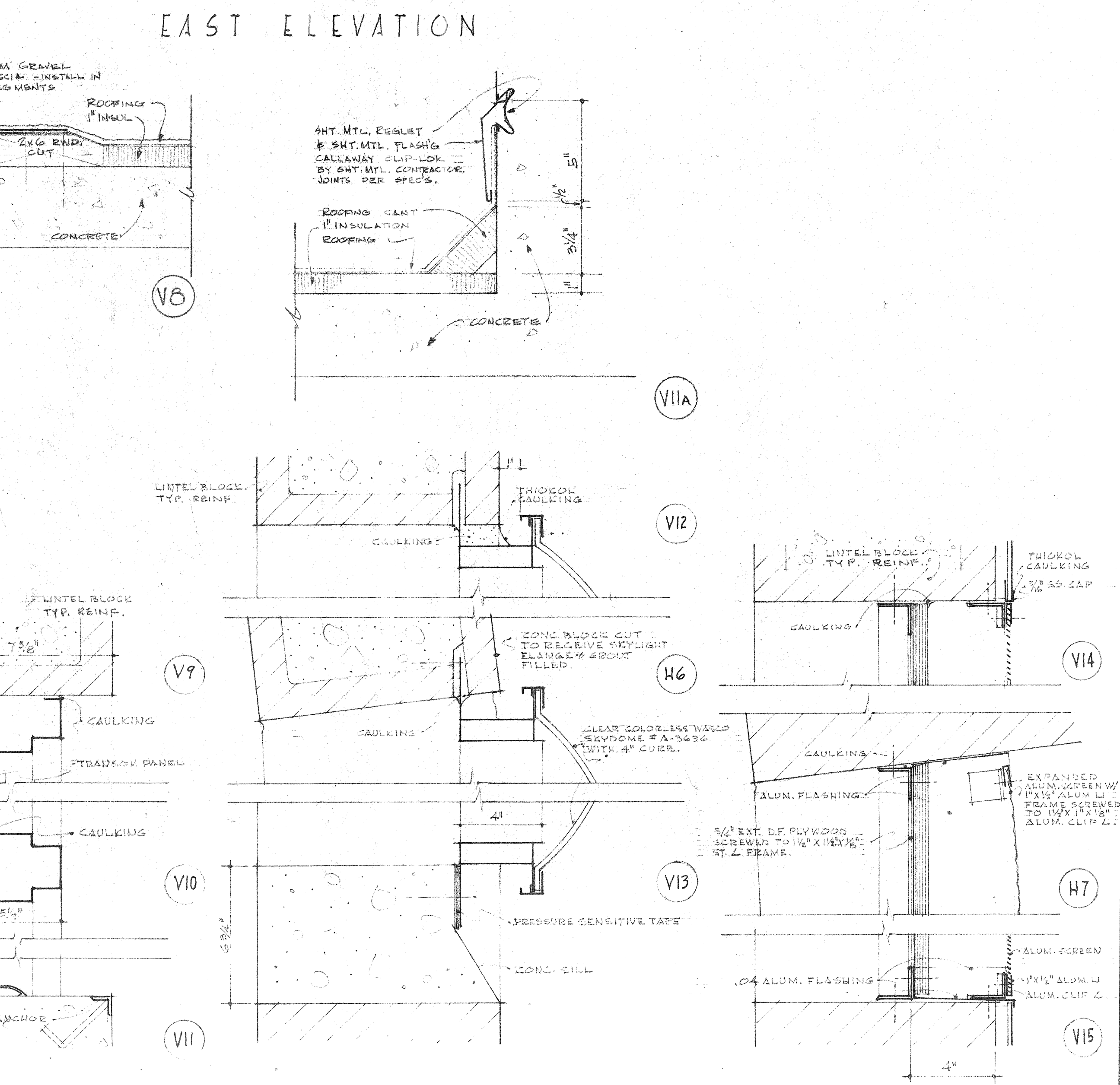
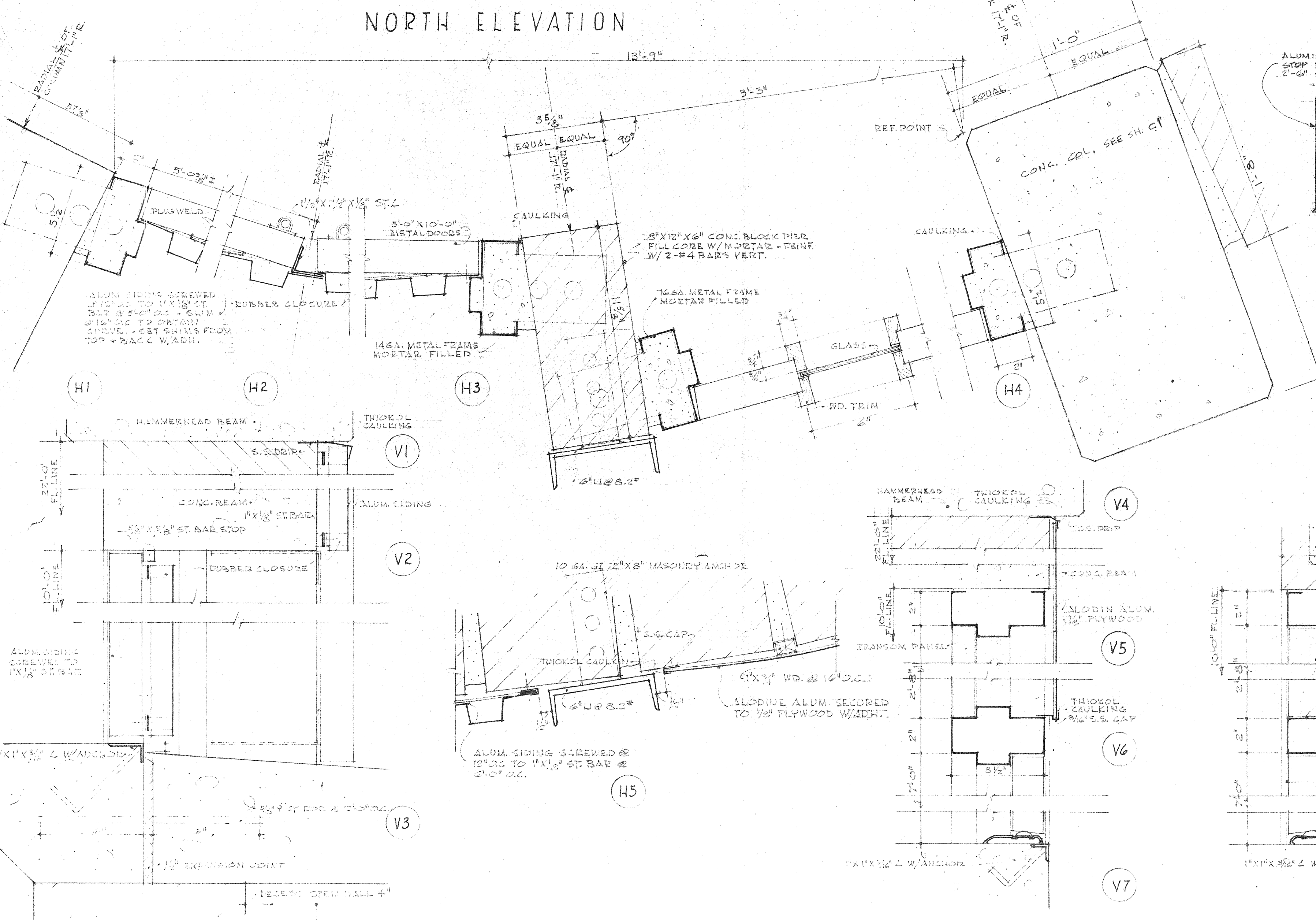
ISSUE DATE 10-1-81  
 COMMISSION 10-1889  
**C4**



NORTH ELEVATION

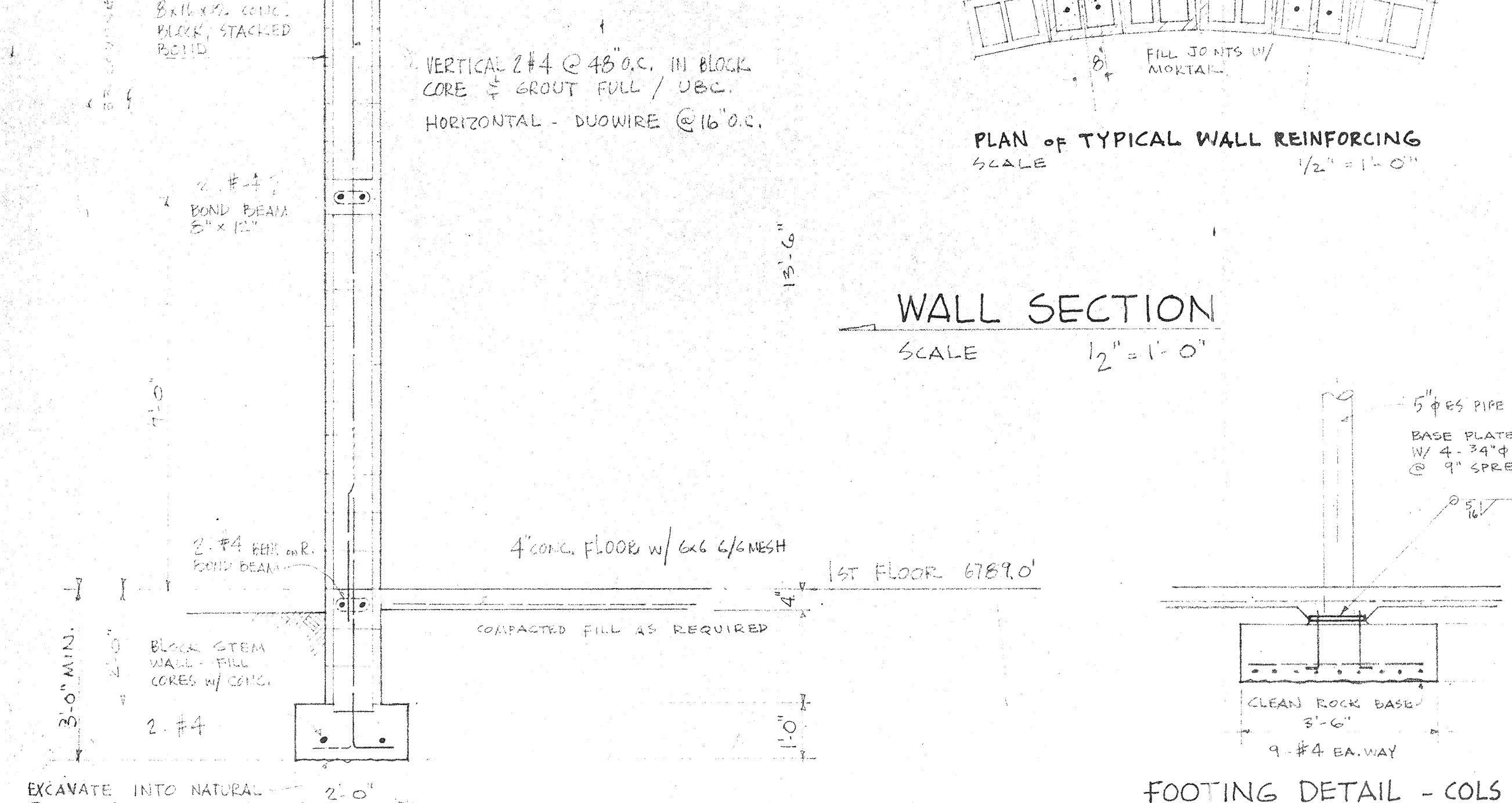
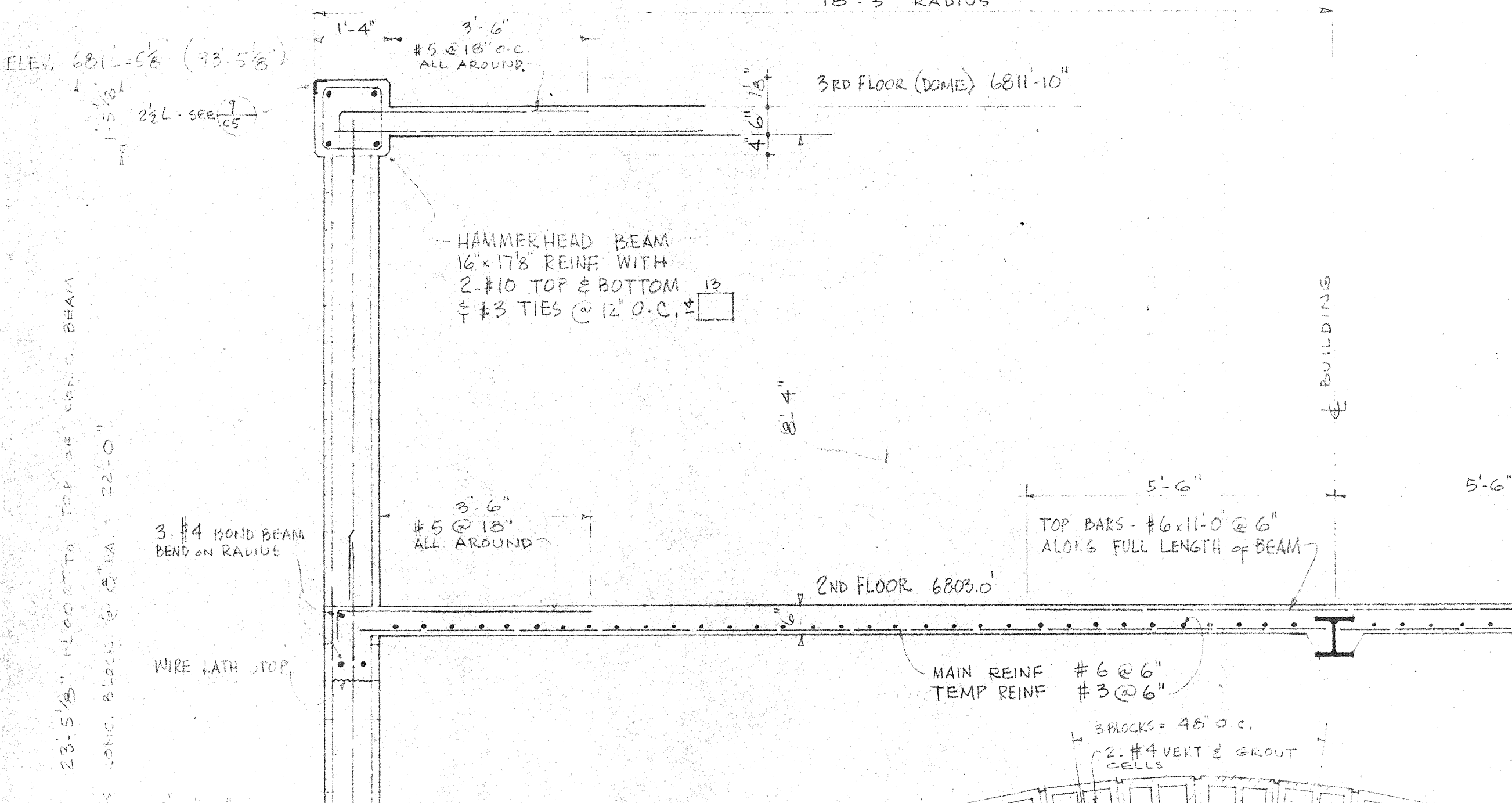
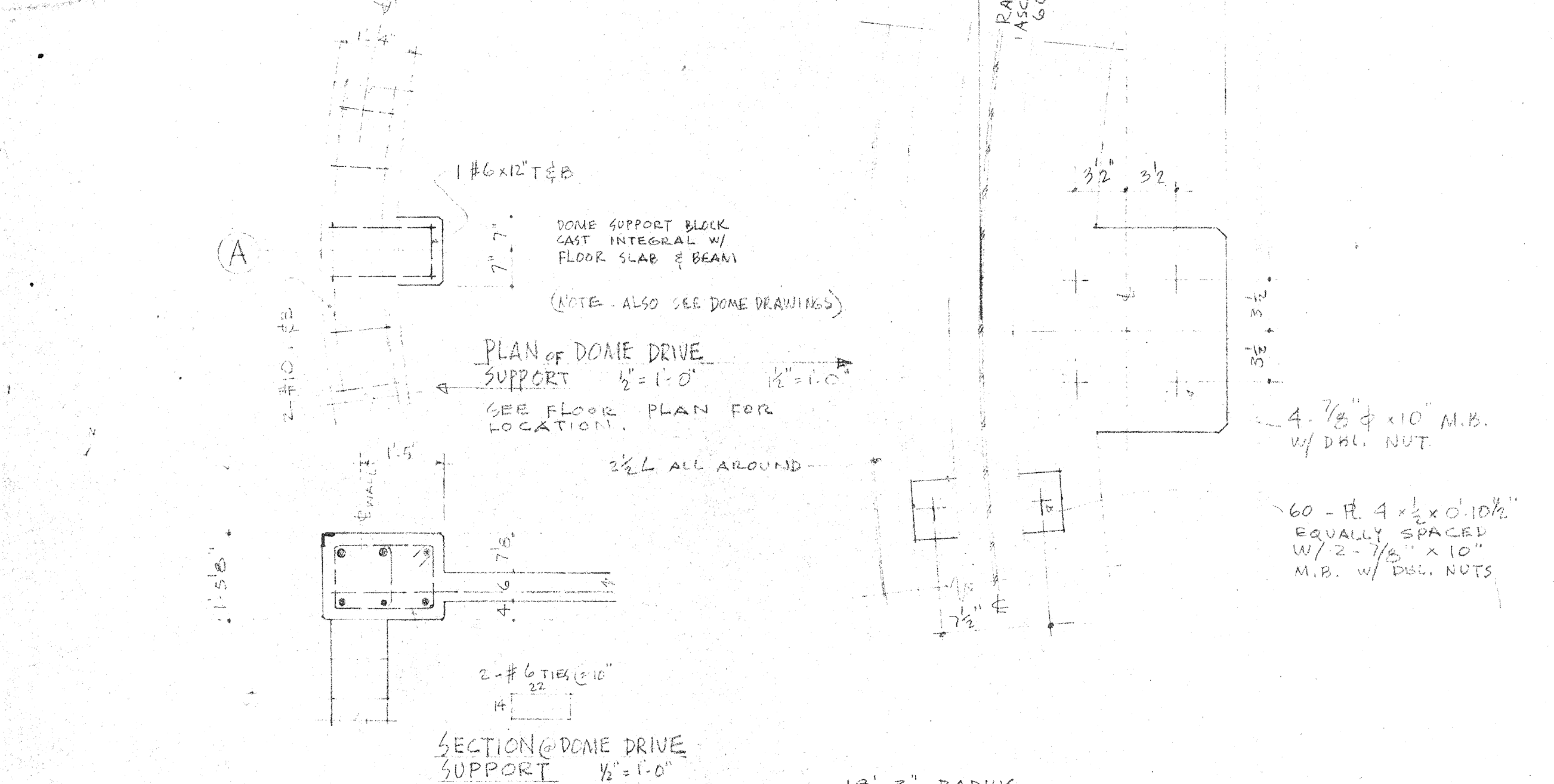


EAST ELEVATION

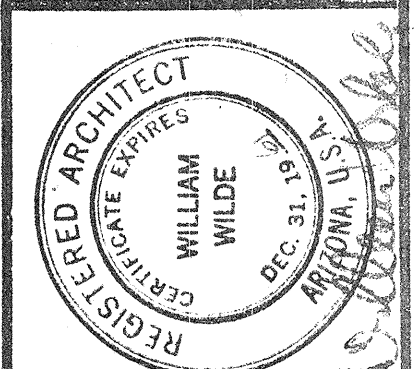
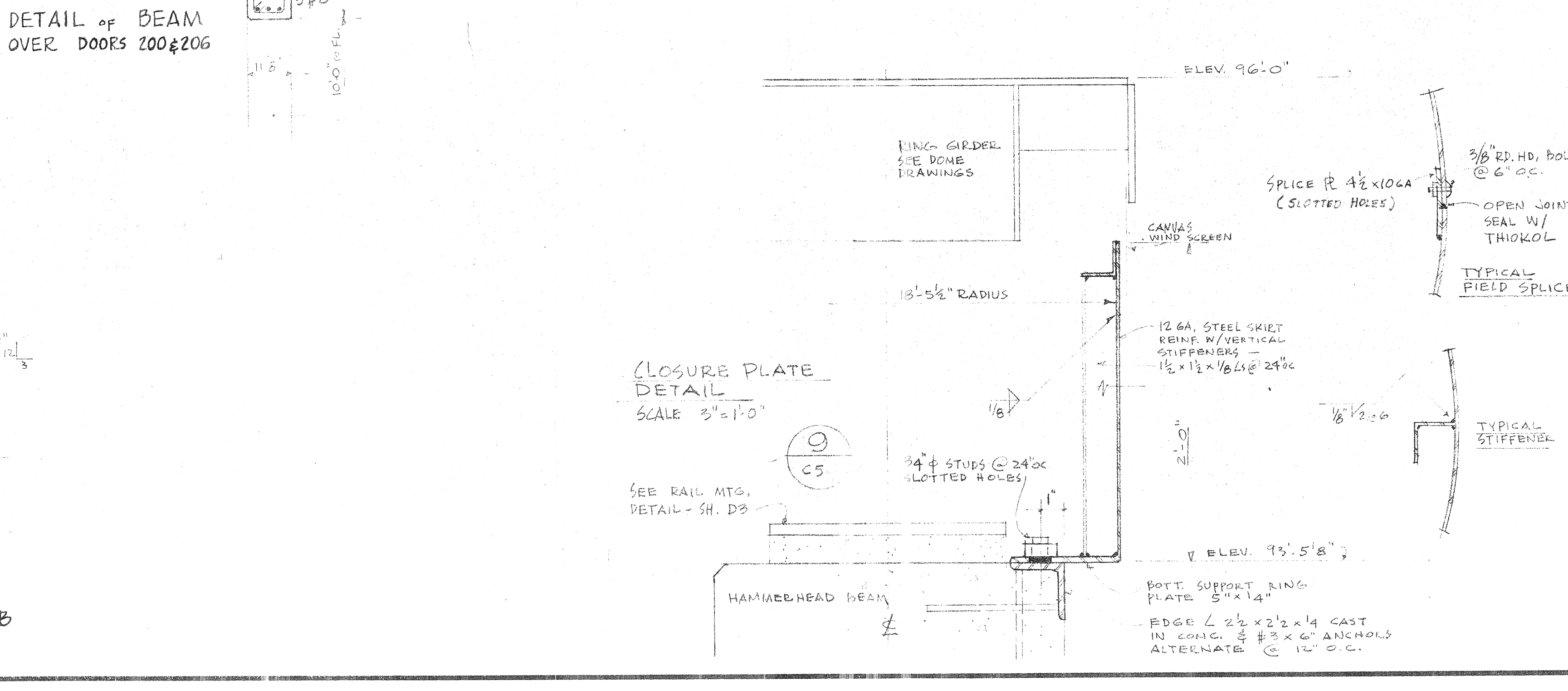
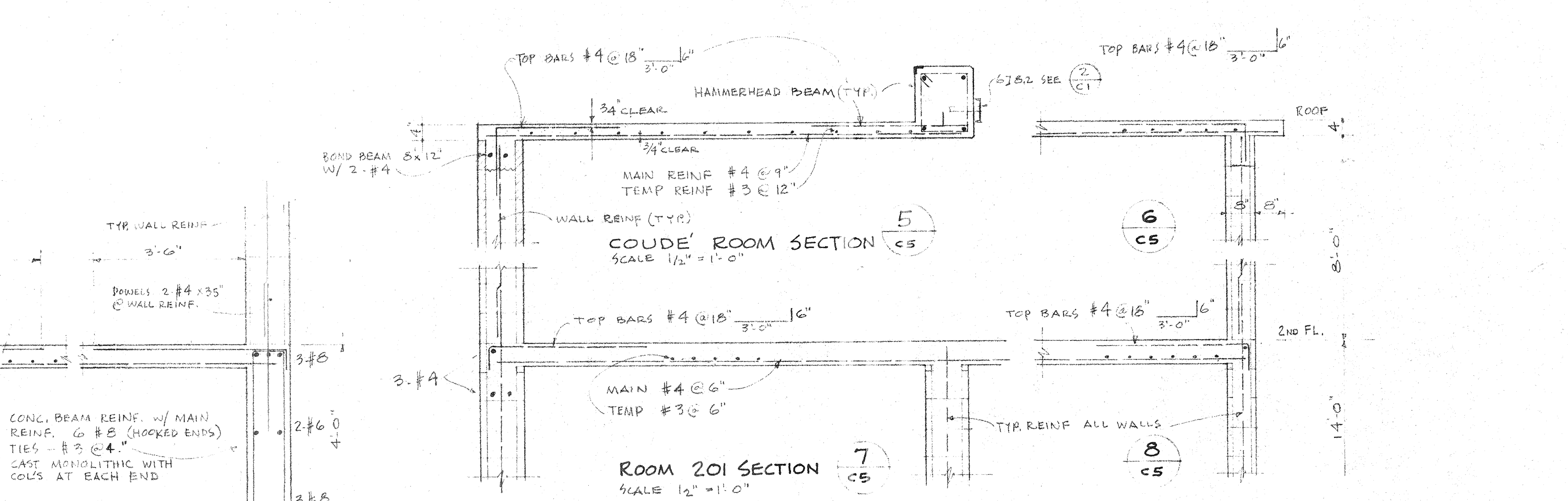
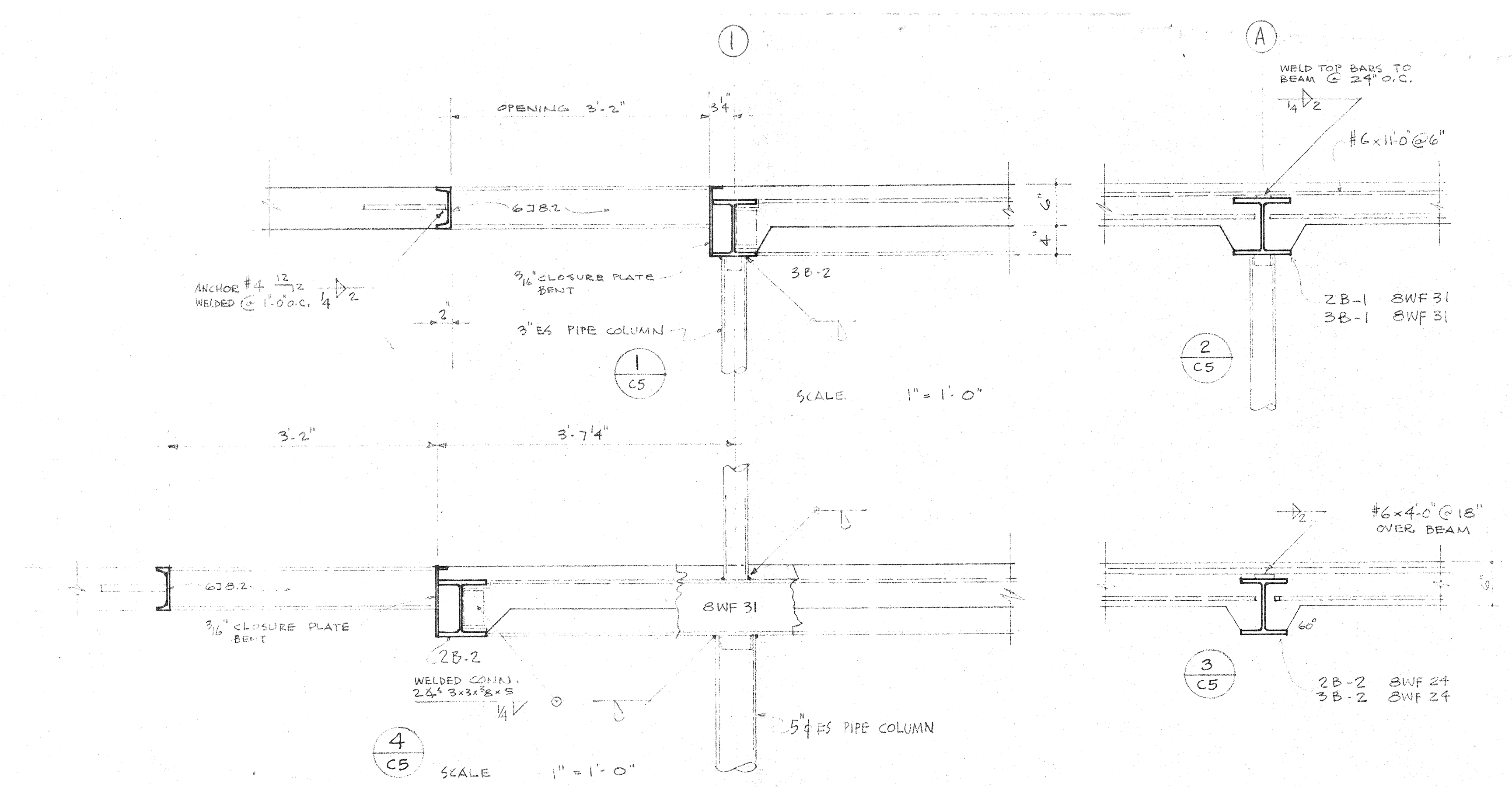


DRAWING

SEE RAIL MOUNTING  
DETAIL SHEET D3



EXCAVATE INTO NATURAL  
ROCK BED, MIN. 6"

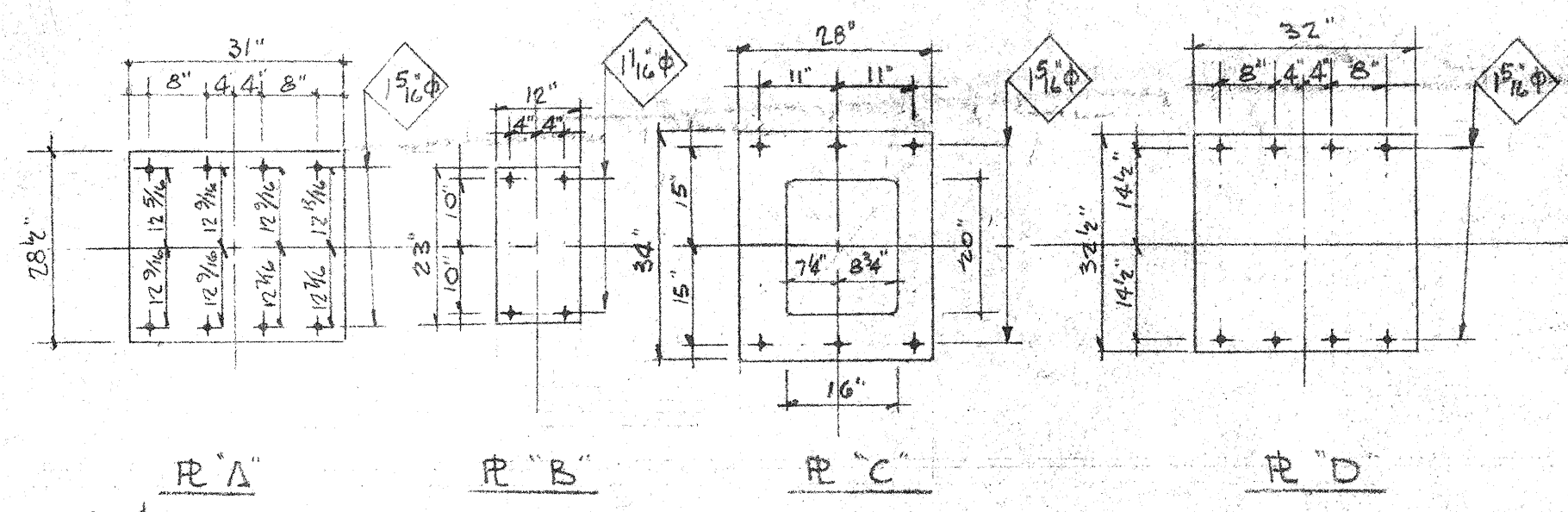


**WILLIAM WILDE ARCHITECT - AIA**  
ARCHITECTURE - INDUSTRIAL DESIGN - SPACE PLANNING  
151 SOUTH TUCSON BOULEVARD - TUCSON, ARIZONA - EA 5-3373

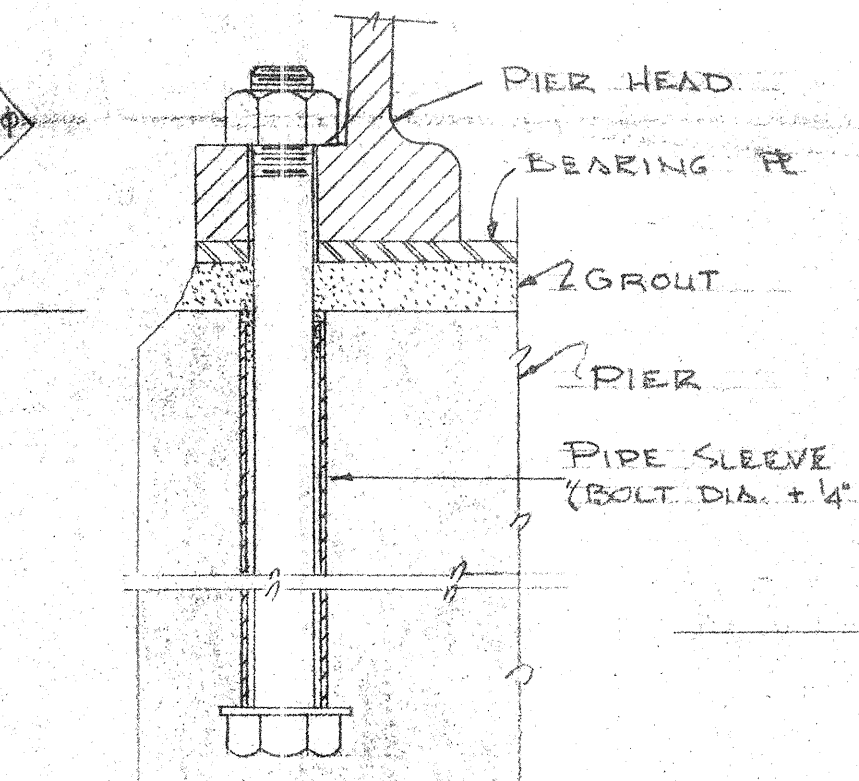
**STEWART OBSERVATORY  
UNIVERSITY OF ARIZONA  
KITT PEAK**

**OBSERVATORY  
STRUCTURAL SECTIONS & DETAIL**

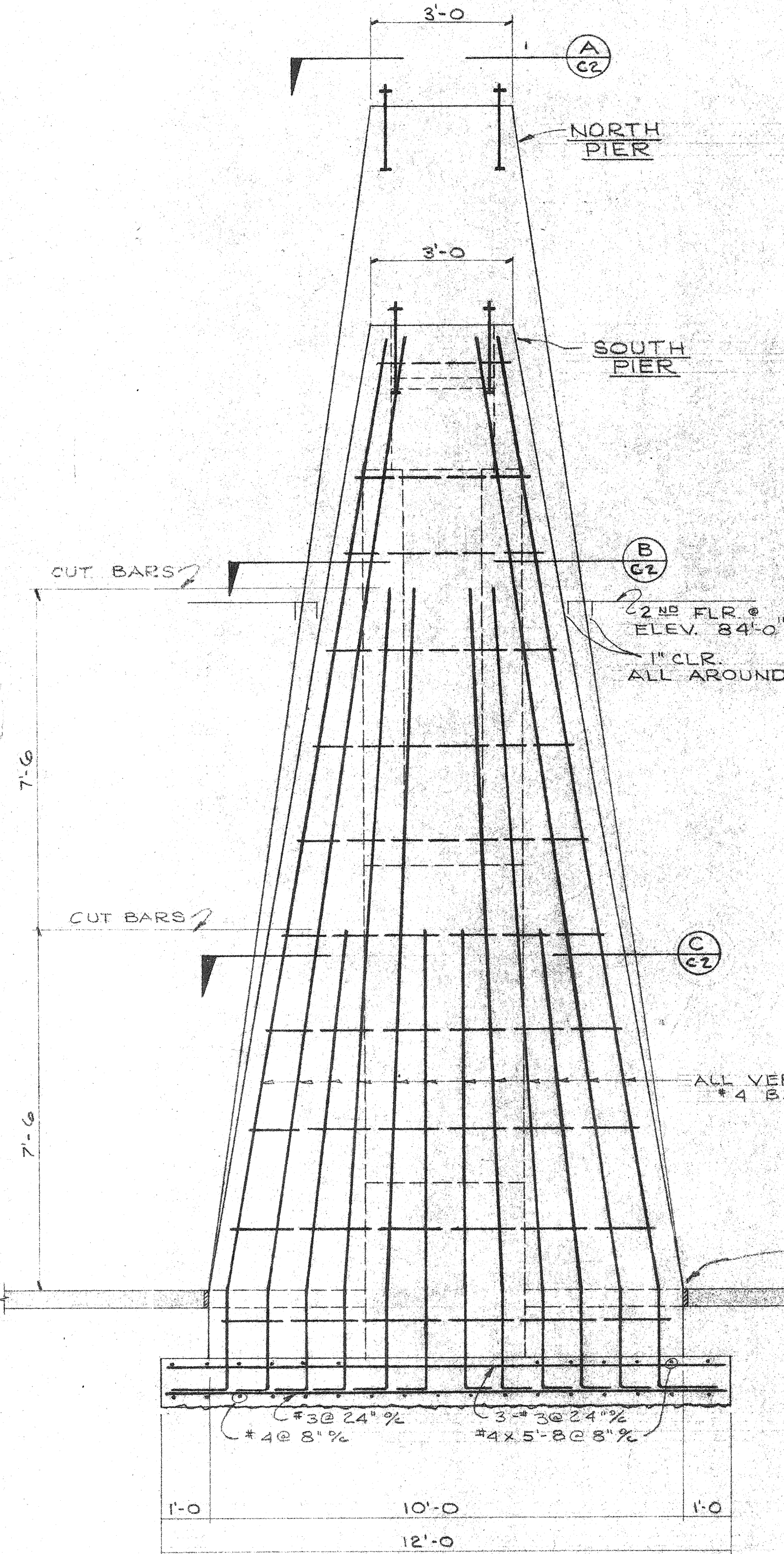
ISSUE DATE: 10-2-61  
COMMISSION: 6-1859  
DRAWING: C-5



1/4" THICK BEARING PLATES

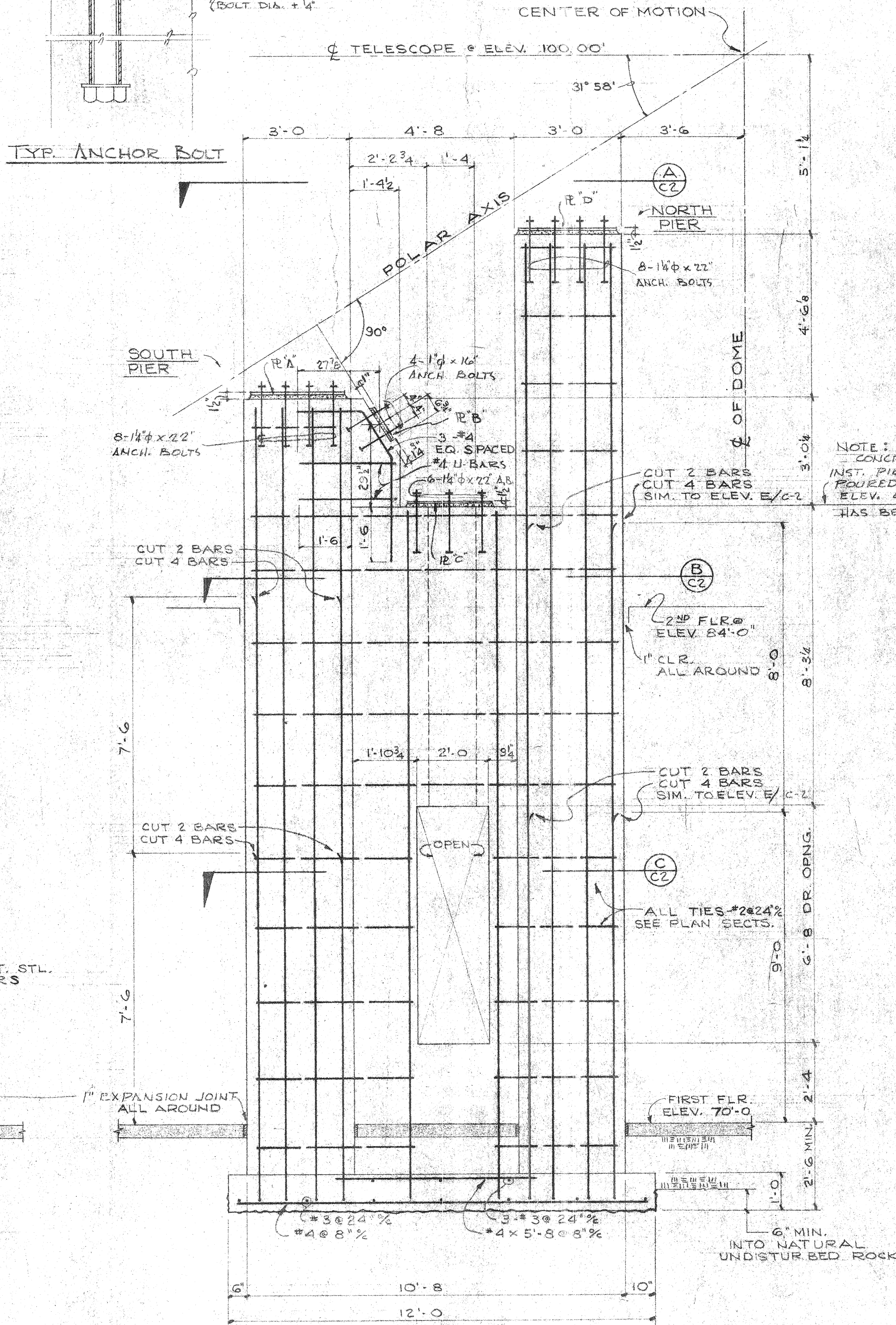


TYPICAL PROJECTION OF ANCHOR BOLTS  
1" - 5"  
1 1/2" - 6"



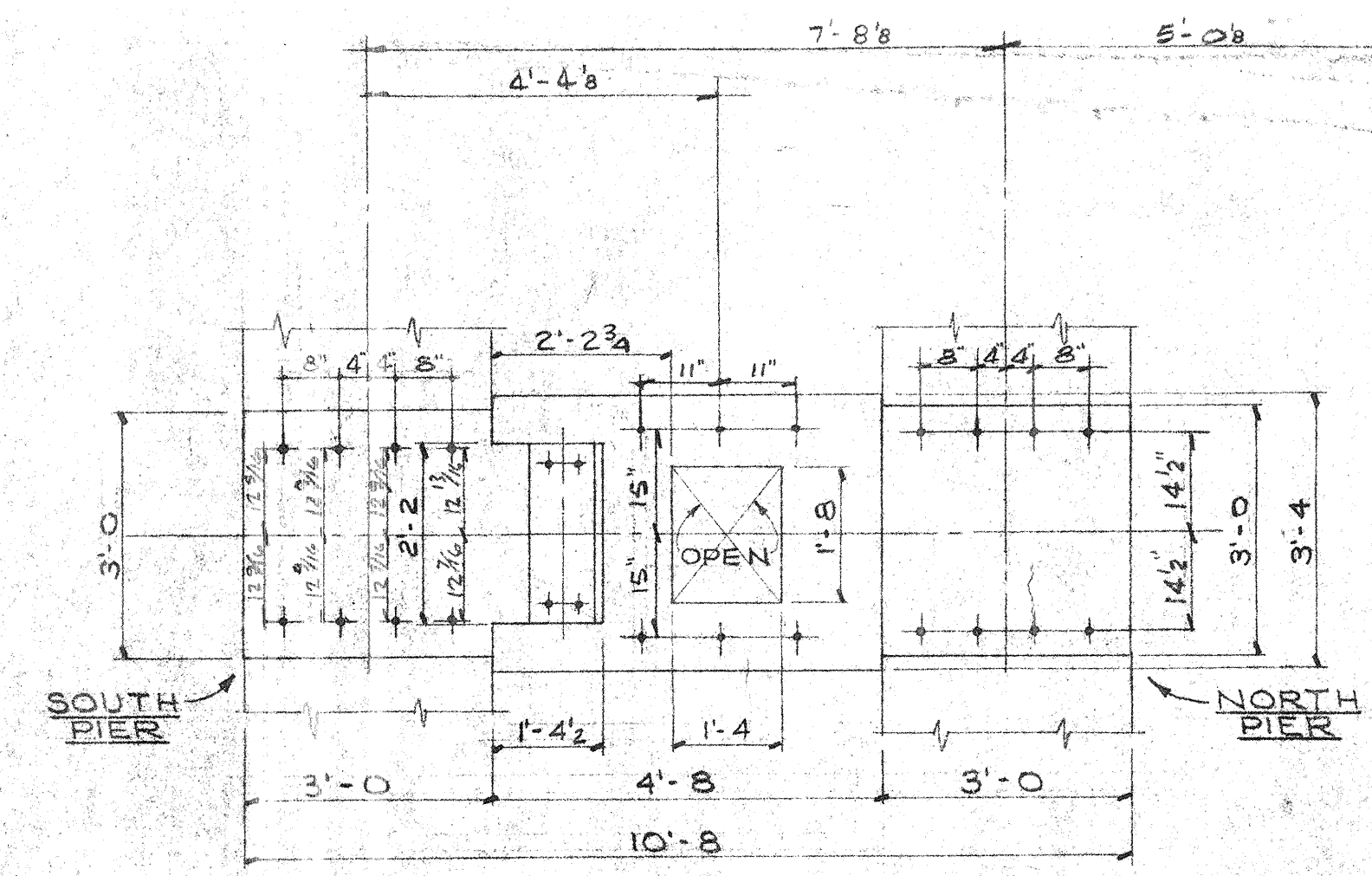
INSTRUMENT PIER SOUTH ELEVATION  
SCALE - 1/2" = 1'-0"

(E)  
C2



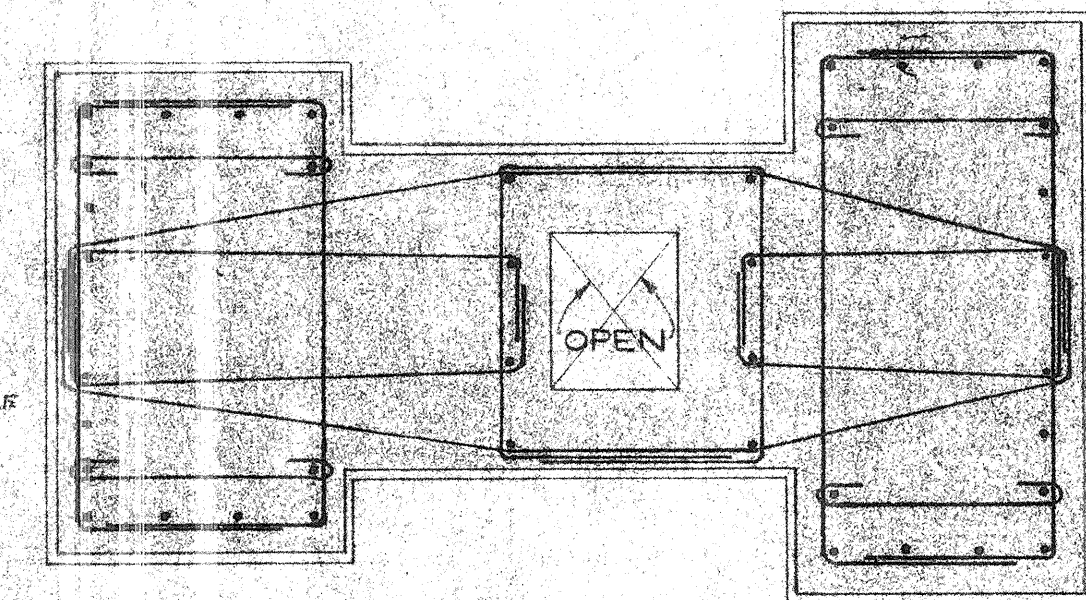
INSTRUMENT PIER EAST ELEVATION  
SCALE - 1/2" = 1'-0"

(D)  
C2



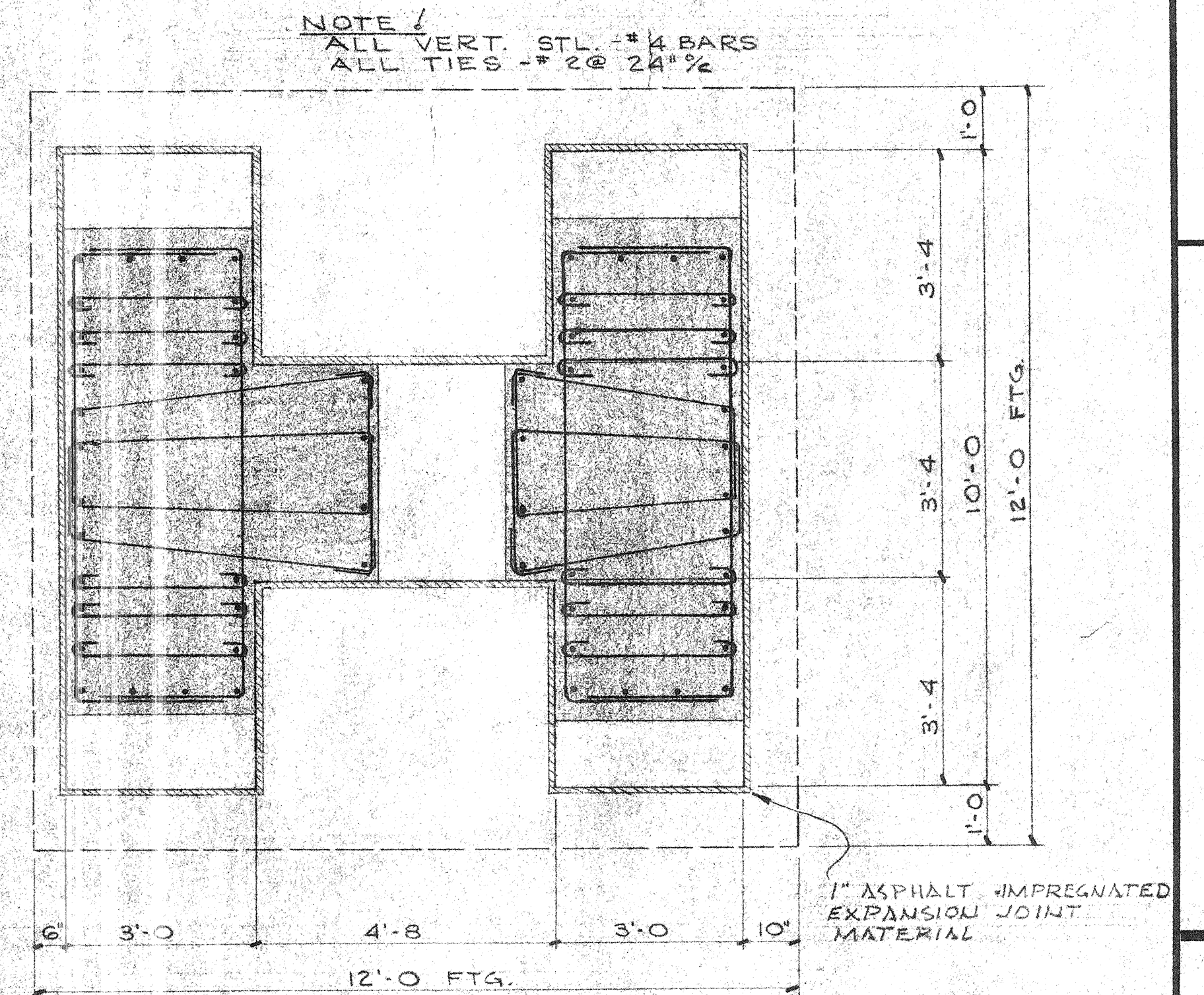
PLAN VIEW  
SCALE - 1/2" = 1'-0"

(A)  
C2



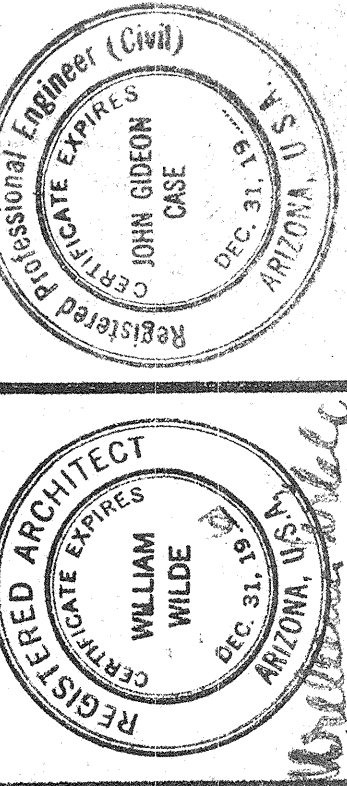
PLAN SECTION @ SECOND FLOOR  
SCALE - 1/2" = 1'-0"

(B)  
C2



PLAN SECTION OF INSTRUMENT PIER

(C)  
C2



**WILLIAM WILDE ARCHITECT - AIA**  
ARCHITECTURE - INDUSTRIAL DESIGN - SPACE PLANNING  
151 SOUTH TUCSON BOULEVARD - TUCSON, ARIZONA - EA 9-3975

**STEWART OBSERVATORY**  
**UNIVERSITY OF ARIZONA**  
**KITT PEAK**

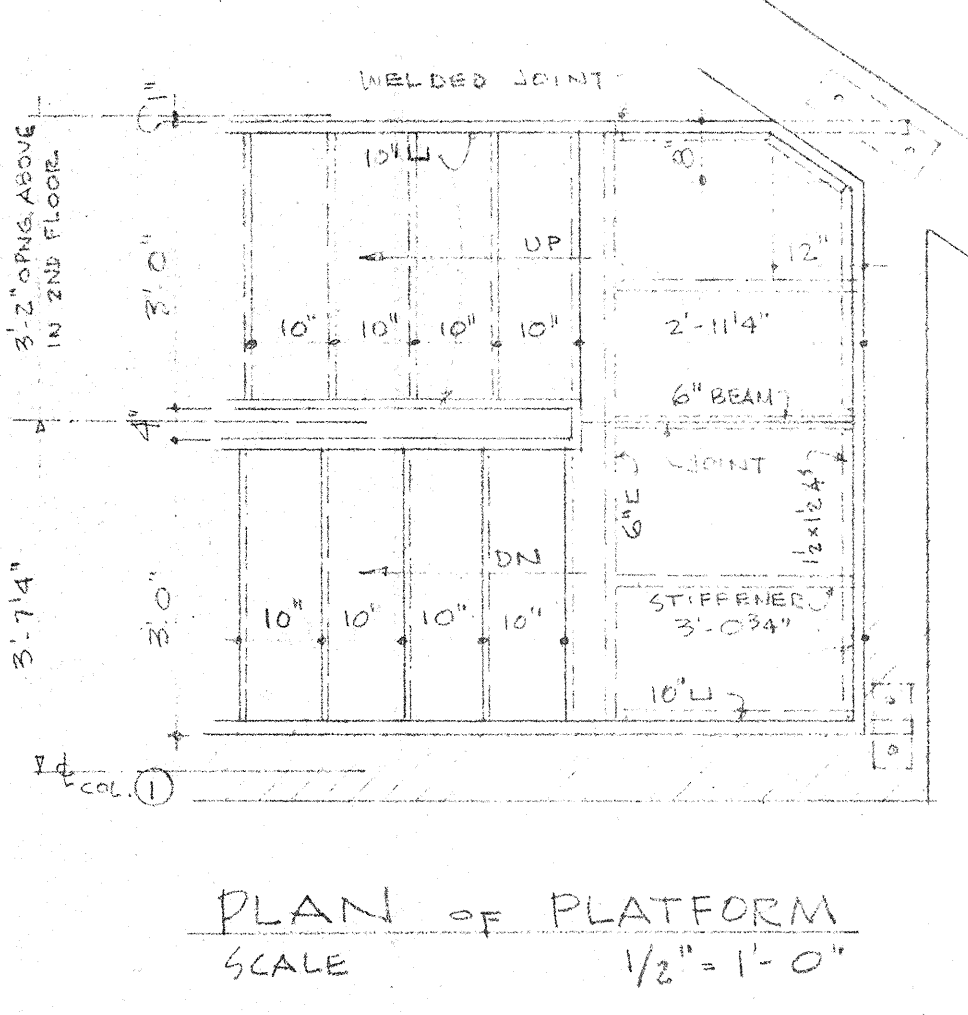
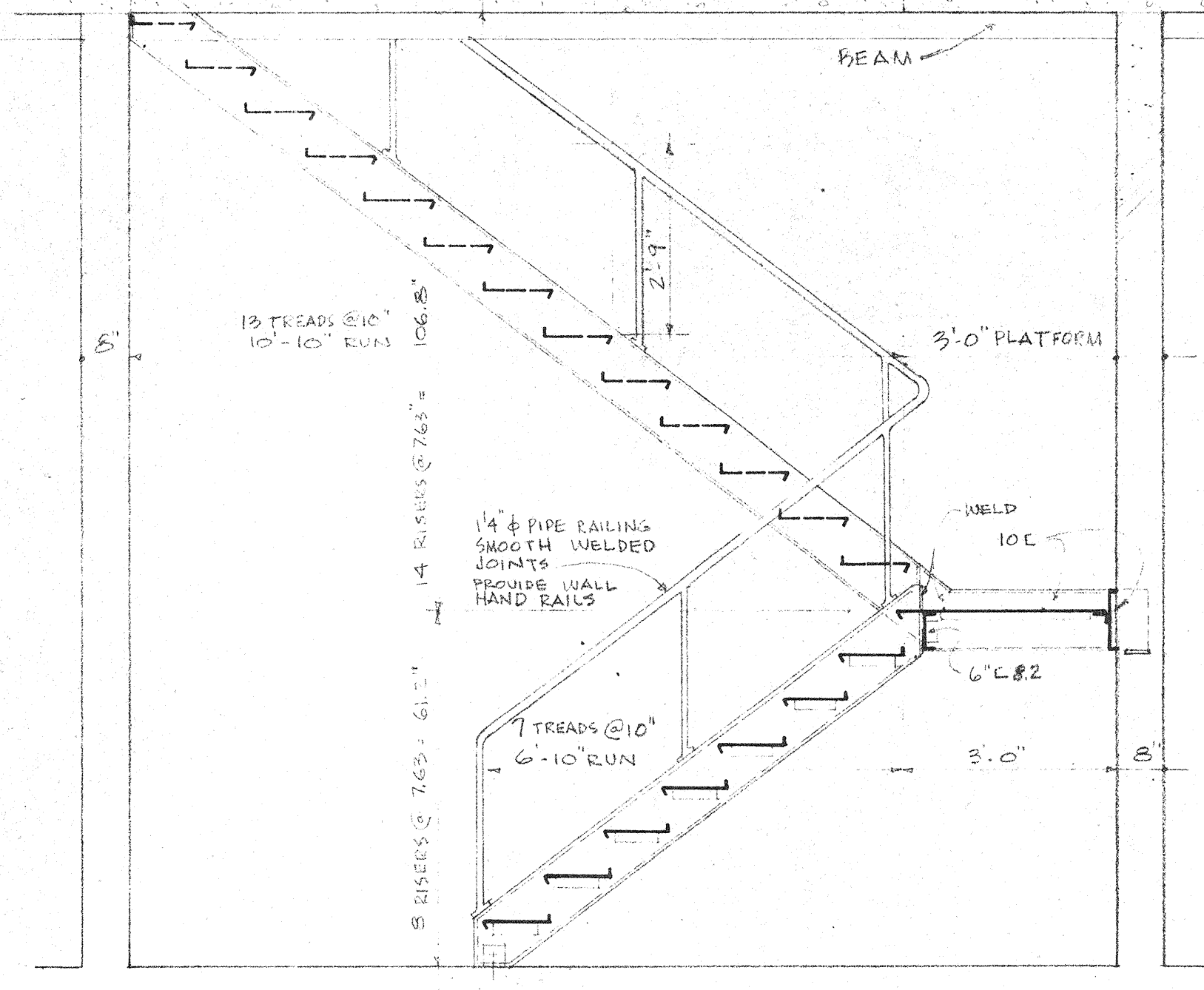
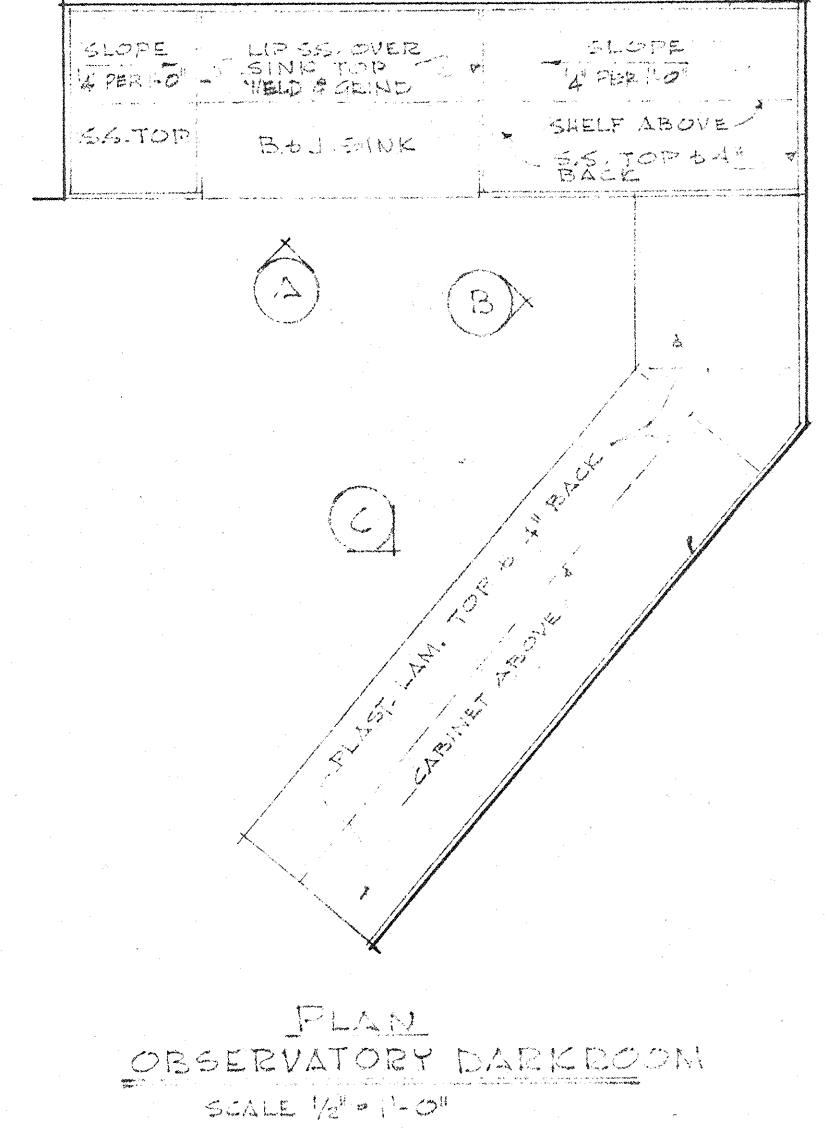
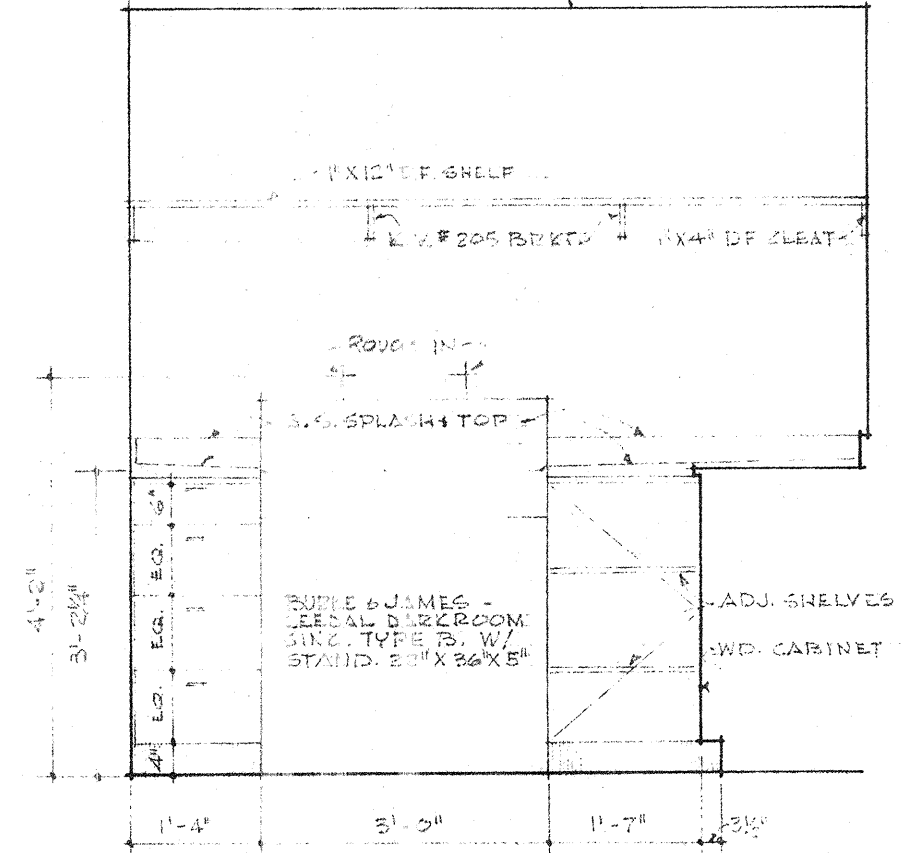
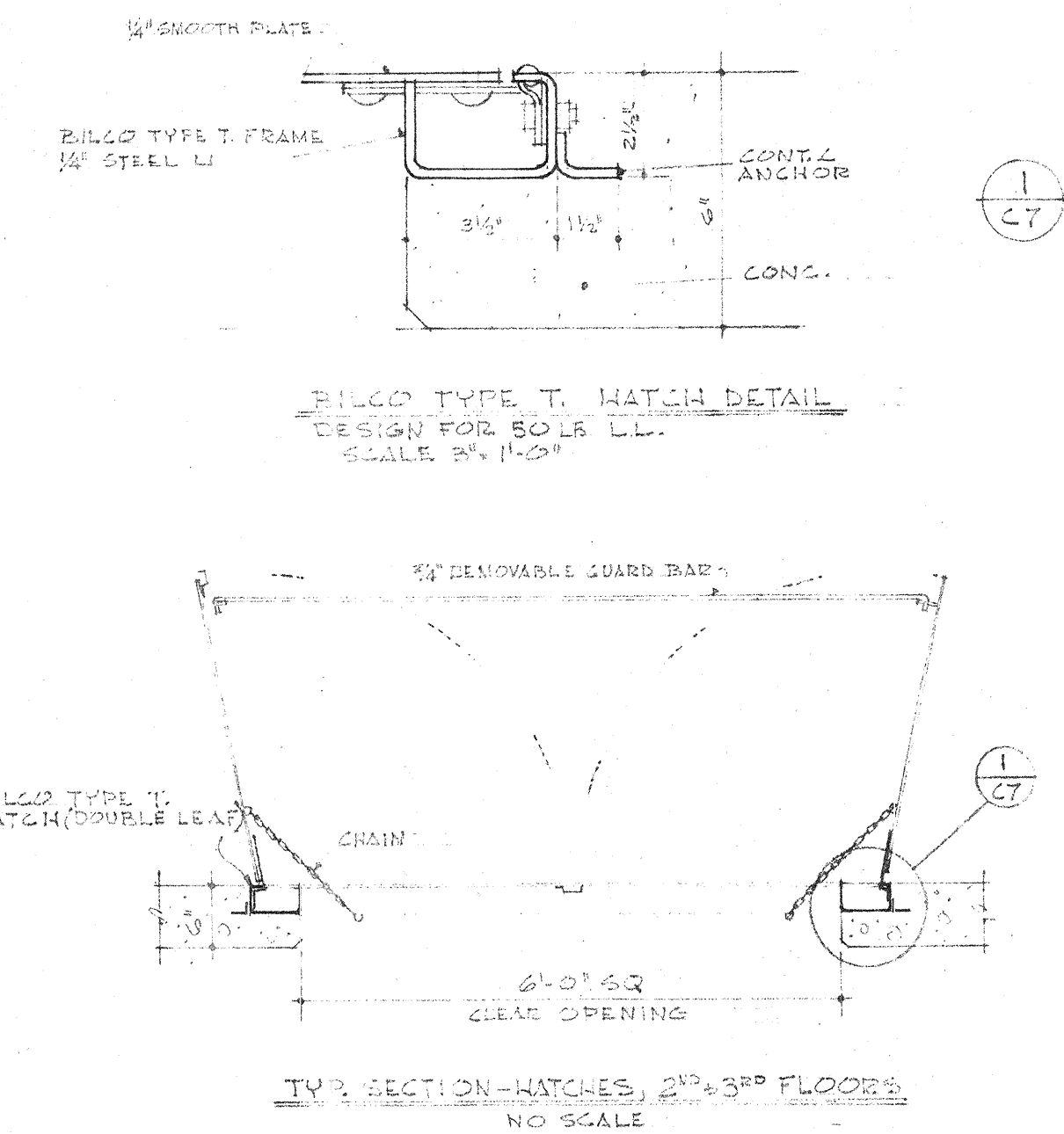
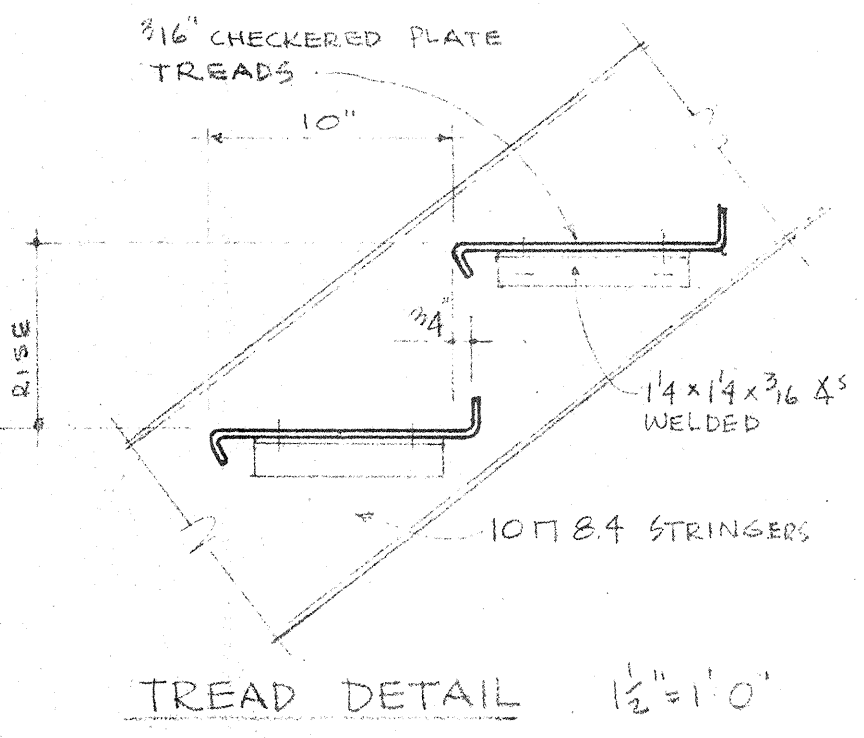
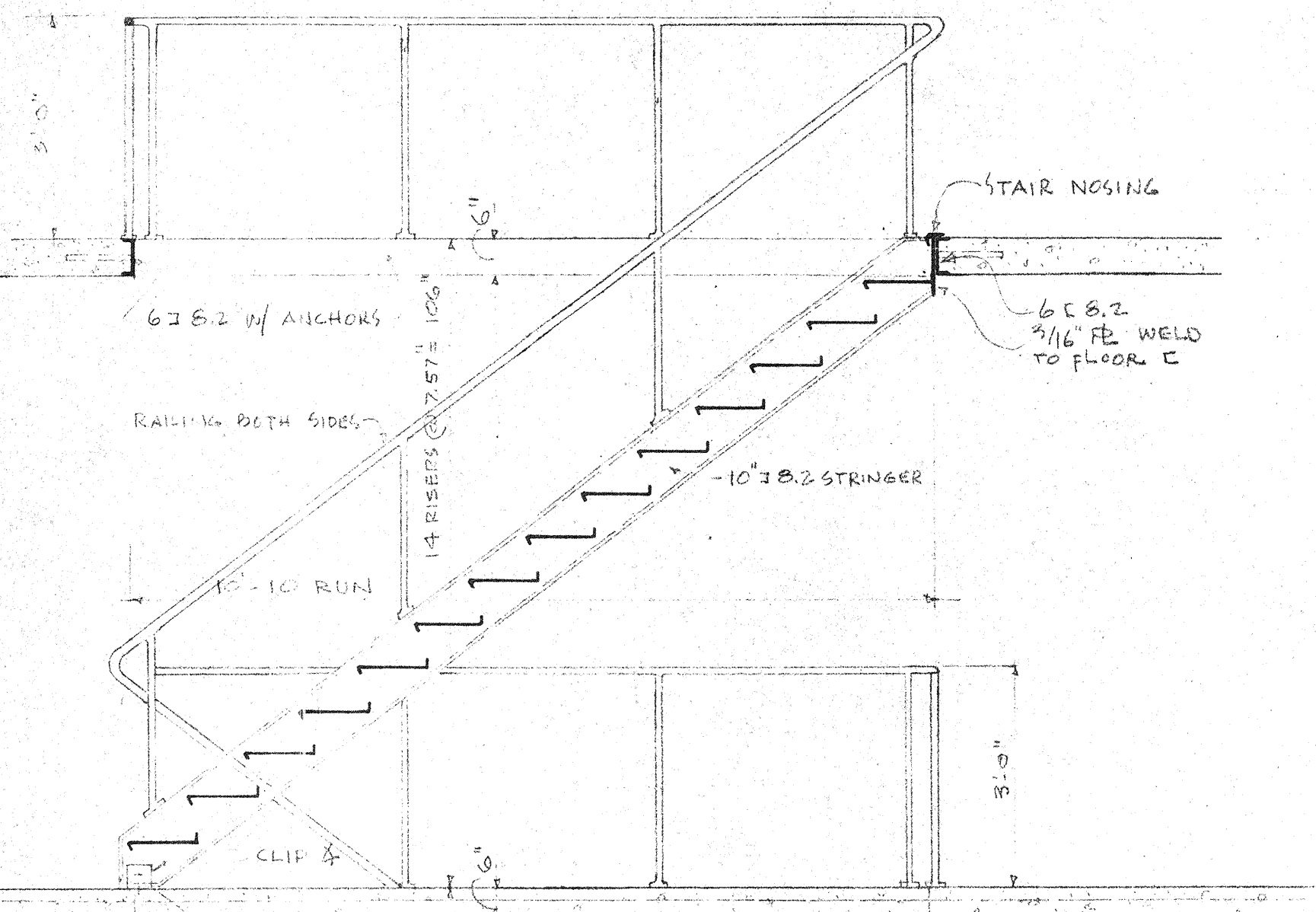
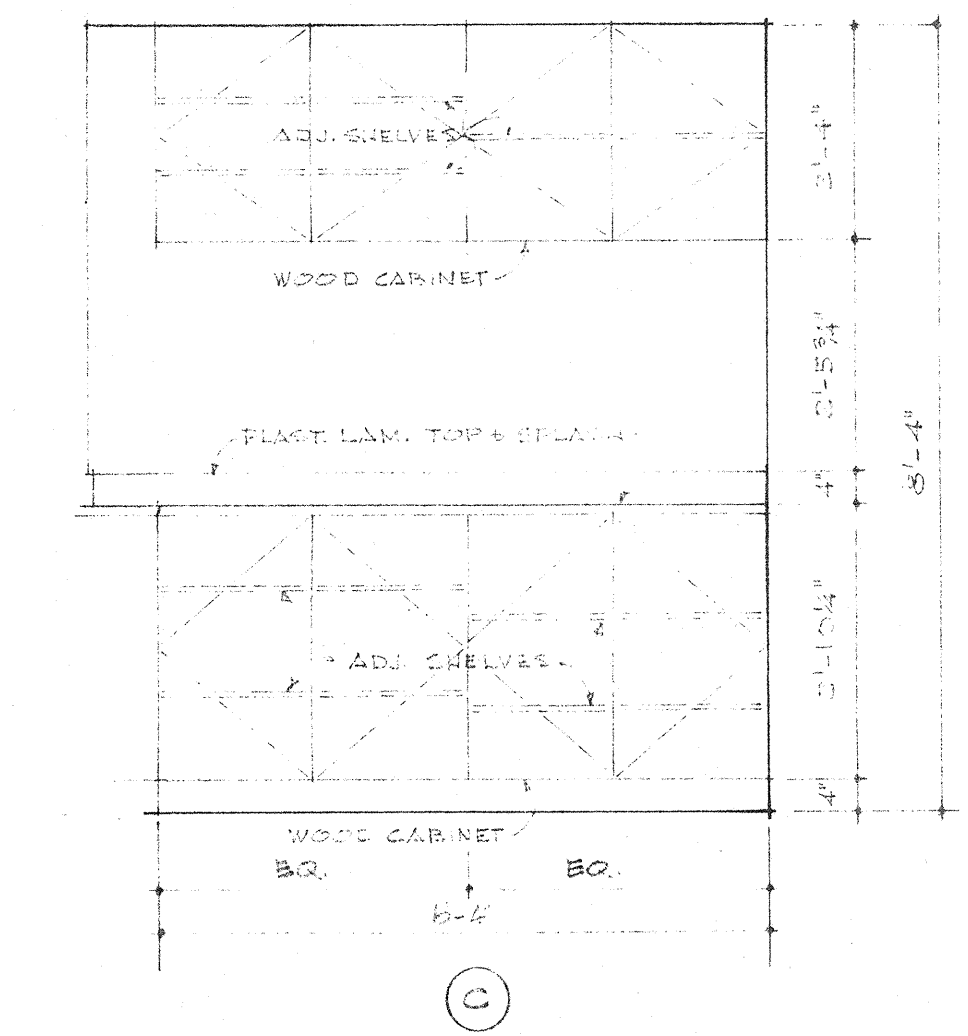
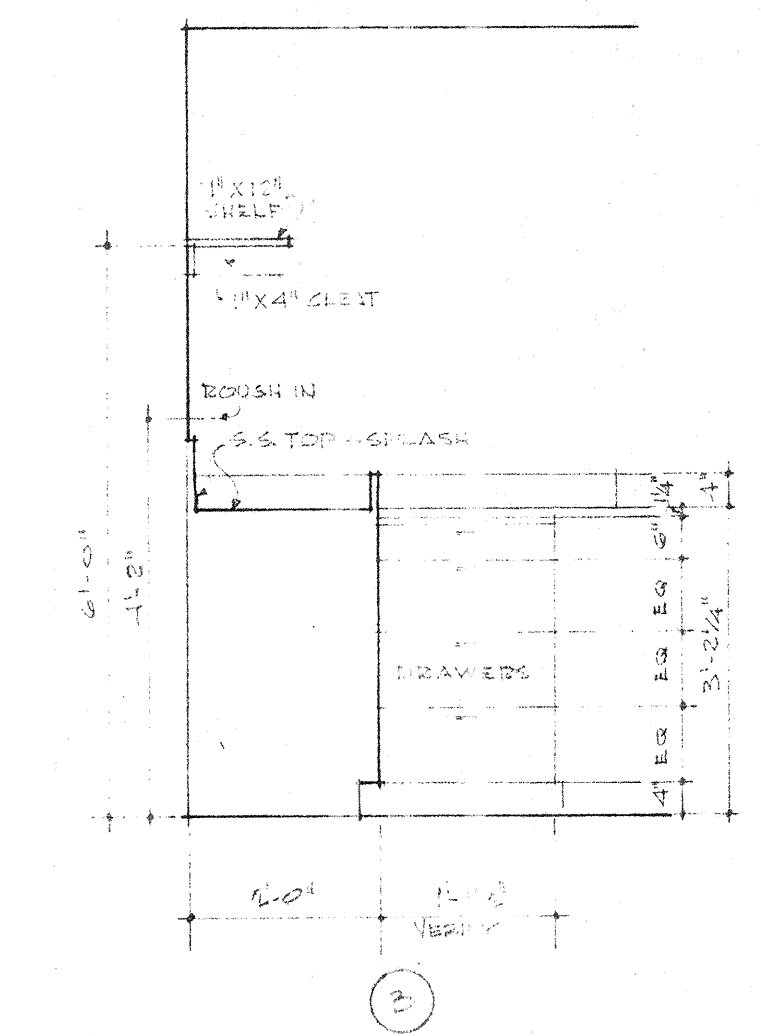
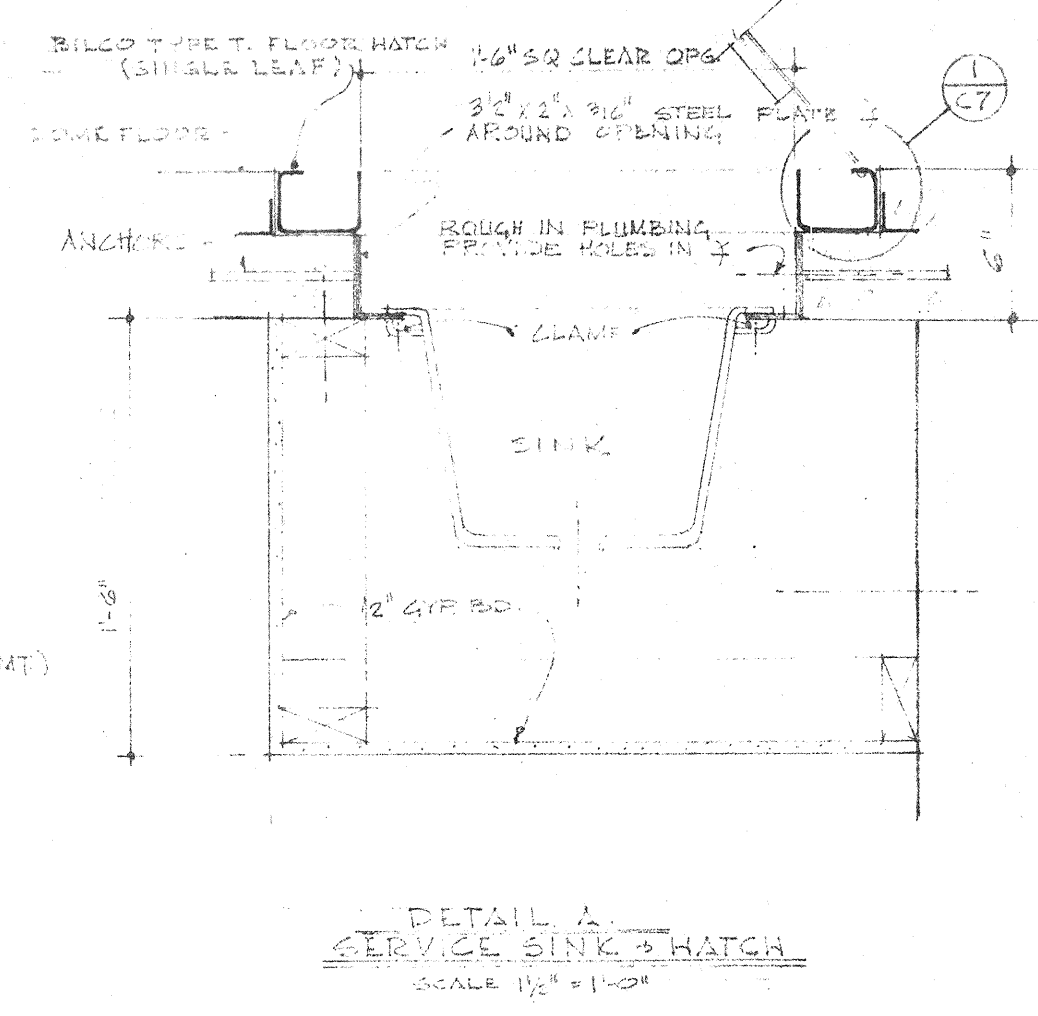
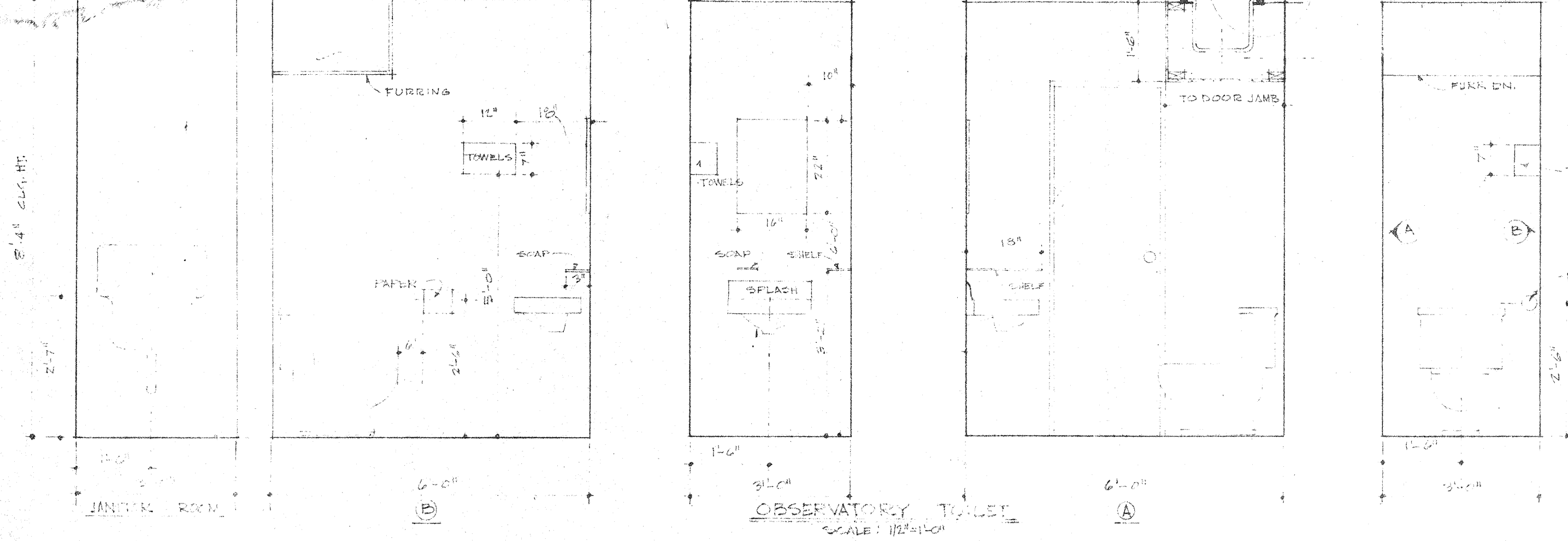
**OBSERVATORY**  
**INSTRUMENT PIER**  
**ELEVATIONS & SECTION**

ISSUE DATE: 10-2-61  
COMMISSION: 6-1-61  
**C6**

ACCESSORY SCHEDULE

PAPER HOLDER	HALLOWELL 10170
COMP. HOLDER	10170
TOILET BRUSH	10170
TOILET	10170
TOWEL HOLDER	10170
WASH BASIN	10170

WASH BASIN, PUBLIC SERVICE (JANITOR RM. ALSO)



SECTION THRU STAIRWAY  
SCALE 1/2" = 1'-0"

REGISTERED ARCHITECT  
CELESTINE EYRES  
WILLIAM WILDE  
DEC 31 1957  
ARIZONA, U.S.A.

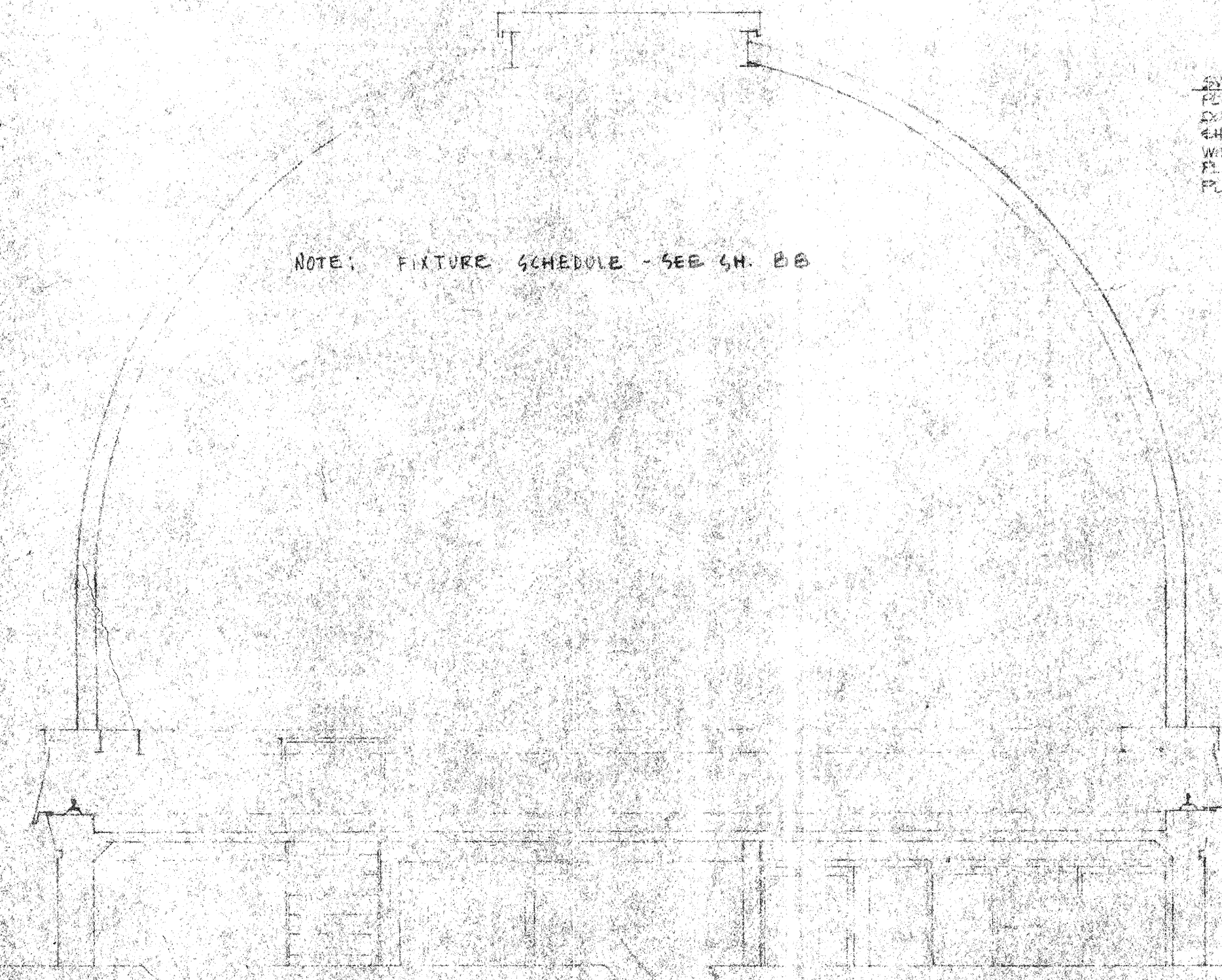
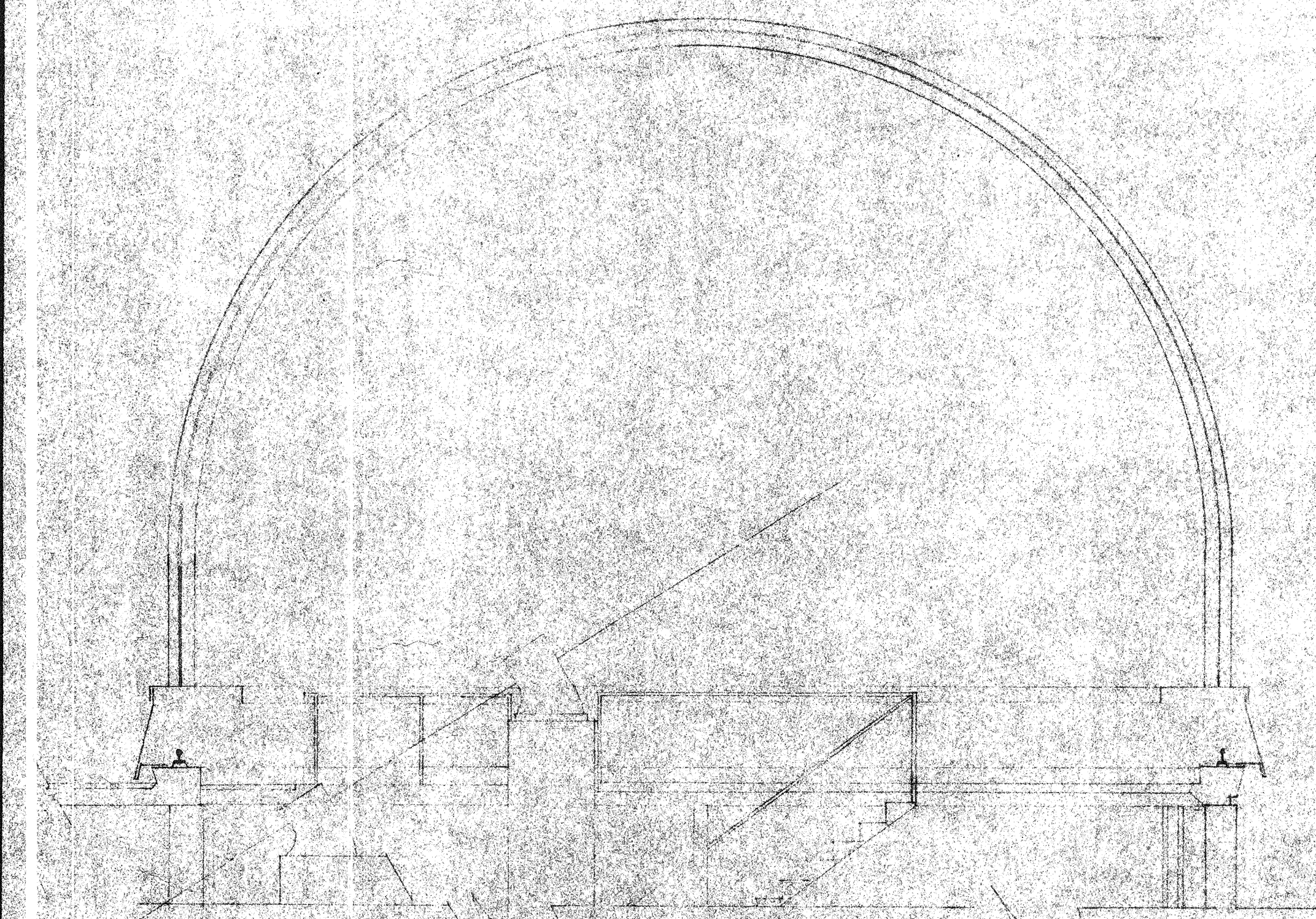
**WILLIAM WILDE ARCHITECT AIA**  
ARCHITECTURE • INDUSTRIAL DESIGN • SPACE PLANNING  
181 SOUTH TUCSON BOULEVARD • TUCSON, ARIZONA • EA 8-3373

THIS DRAWING IS THE PROPERTY OF WILLIAM WILDE, ARCHITECT. IT IS TO BE USED ONLY WITH THE PERMISSION OF WILLIAM WILDE, ARCHITECT. ANY REUSE OF THIS DRAWING WITHOUT HIS PERMISSION IS PROHIBITED.

STEWART OBSERVATORY  
UNIVERSITY OF ARIZONA  
KIT PEAK

OBSERVATORY  
INTERIOR ELEVATIONS & DETAILS

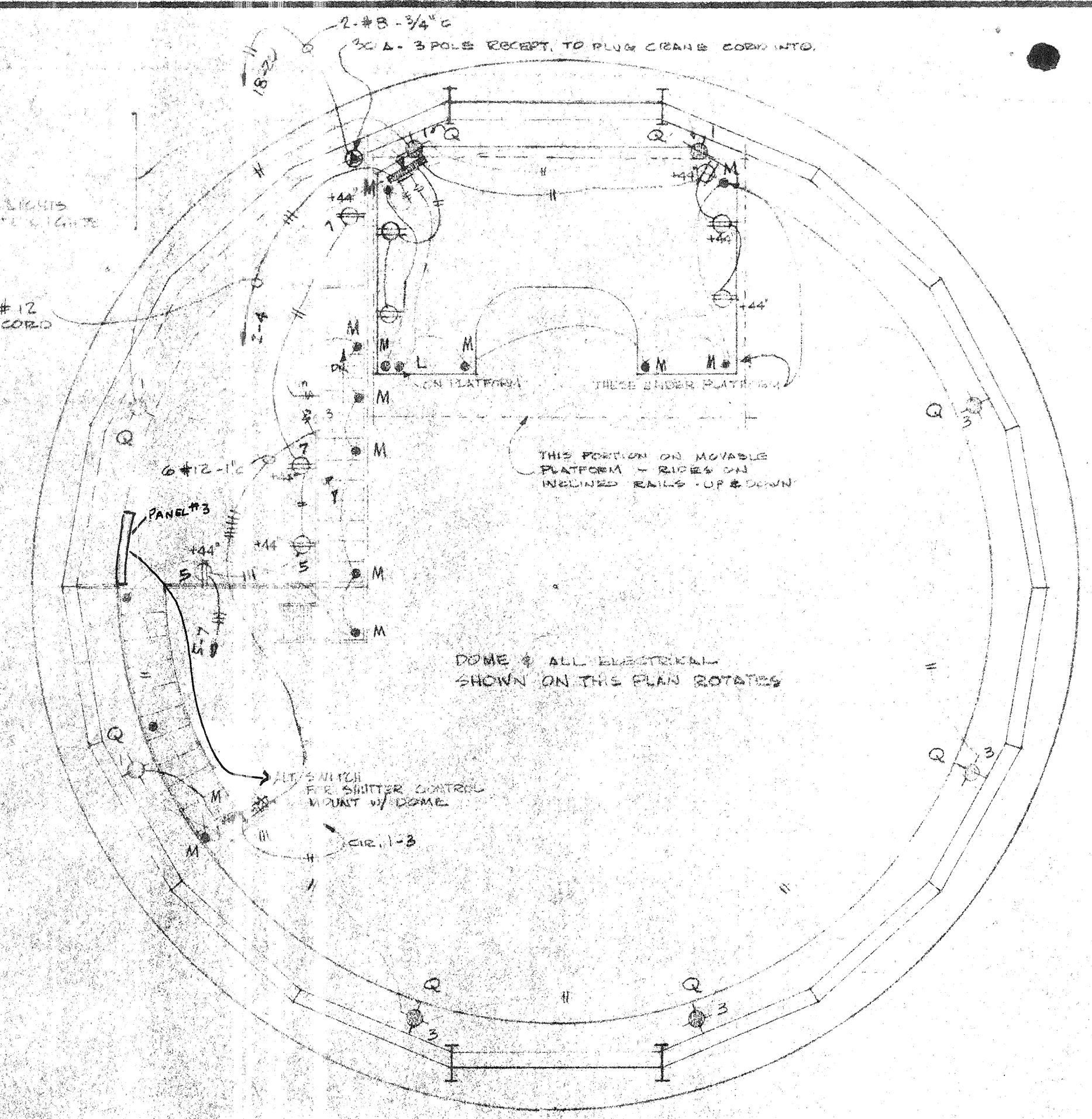
DRAWING	6-7
ISSUE DATE	10-2-61
COMMISSION	6-1559



NOTE: FIXTURE SCHEDULE - SEE 6H. 08

SWITCH PANEL  
 PLATFORM LIGHTS  
 DOME ROTATOR  
 CHUTE  
 WIND-LOCKED  
 PLATFORM LIGHTS  
 PLATFORM LIGHTS

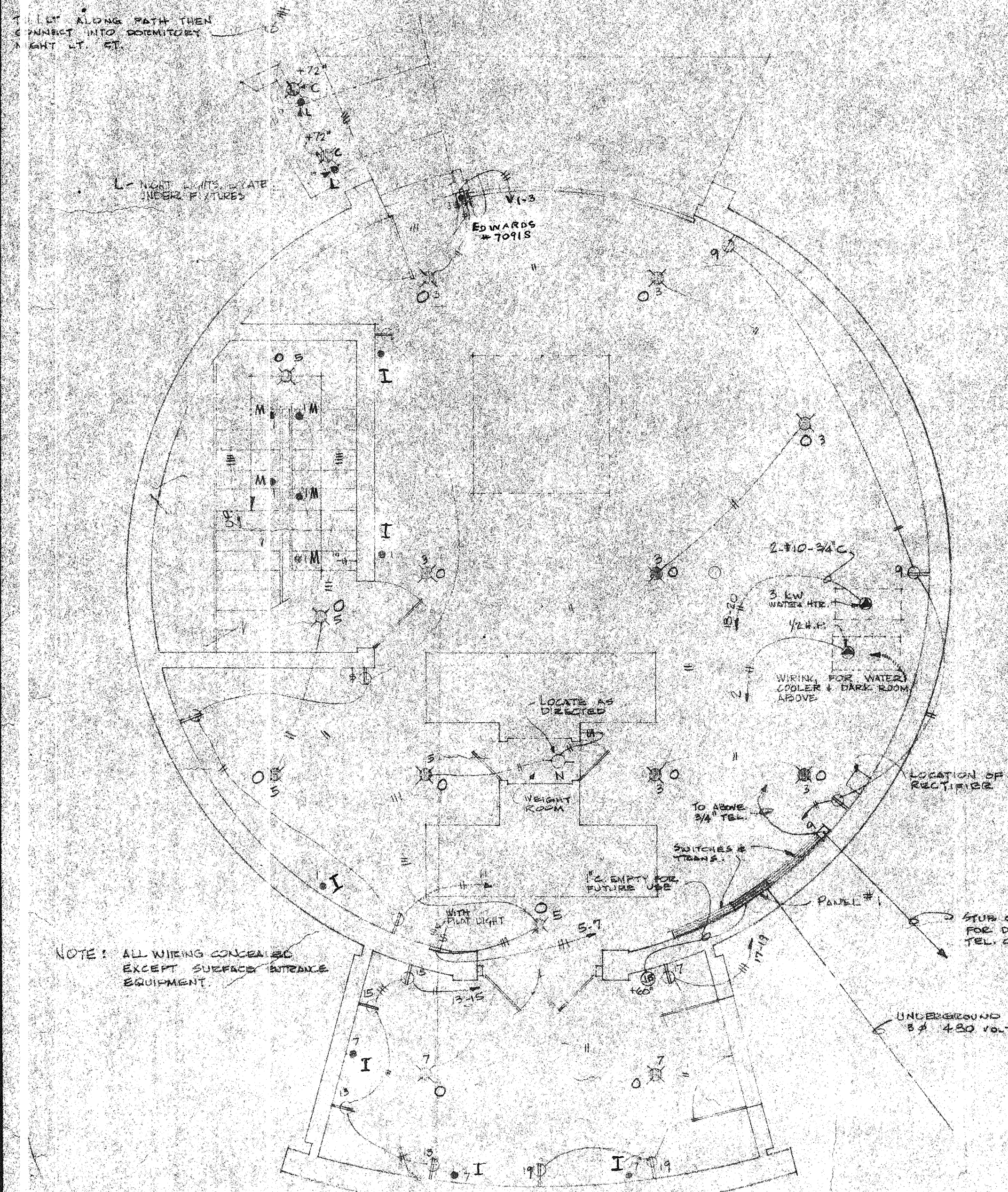
2-CONC. #12  
 TYPICAL CORR.



THIS POSITION ON MOVABLE  
 PLATFORM - RIGID 5/8"  
 INCLINED RAILS UP & DOWN

DOME & ALL MECHANICAL  
 SHOWN ON THIS PLAN ROTATES

SEE SWITCH  
 FOR LIGHTER CONTROL  
 W/INT. W/ DOME



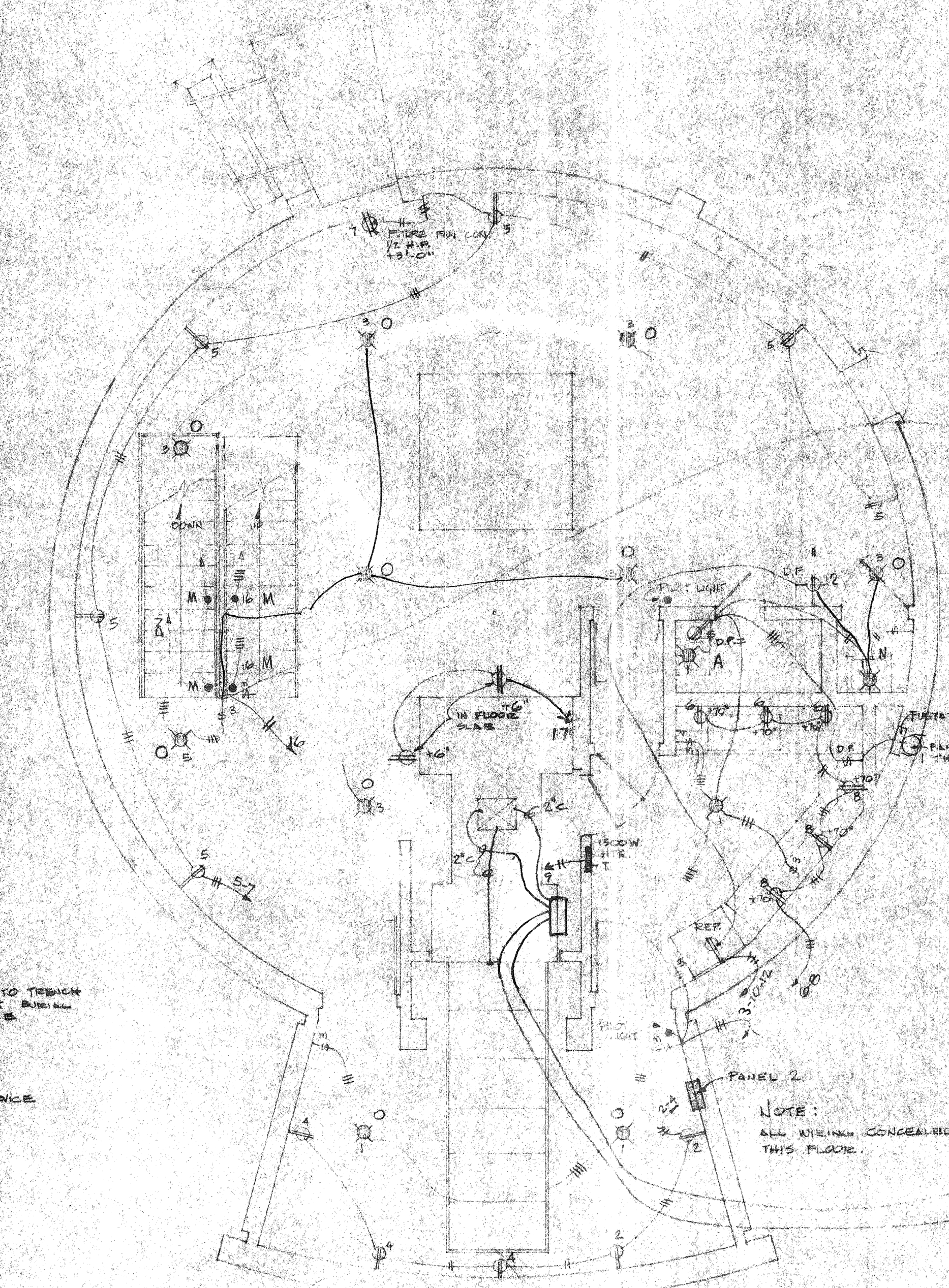
TO LIGHT ALONG PATH THEN  
 CONNECT INTO CORRIDOR  
 2-ANT. LT. CT.

TO LIGHT ALONG PATH THEN  
 CONNECT INTO CORRIDOR  
 2-ANT. LT. CT.

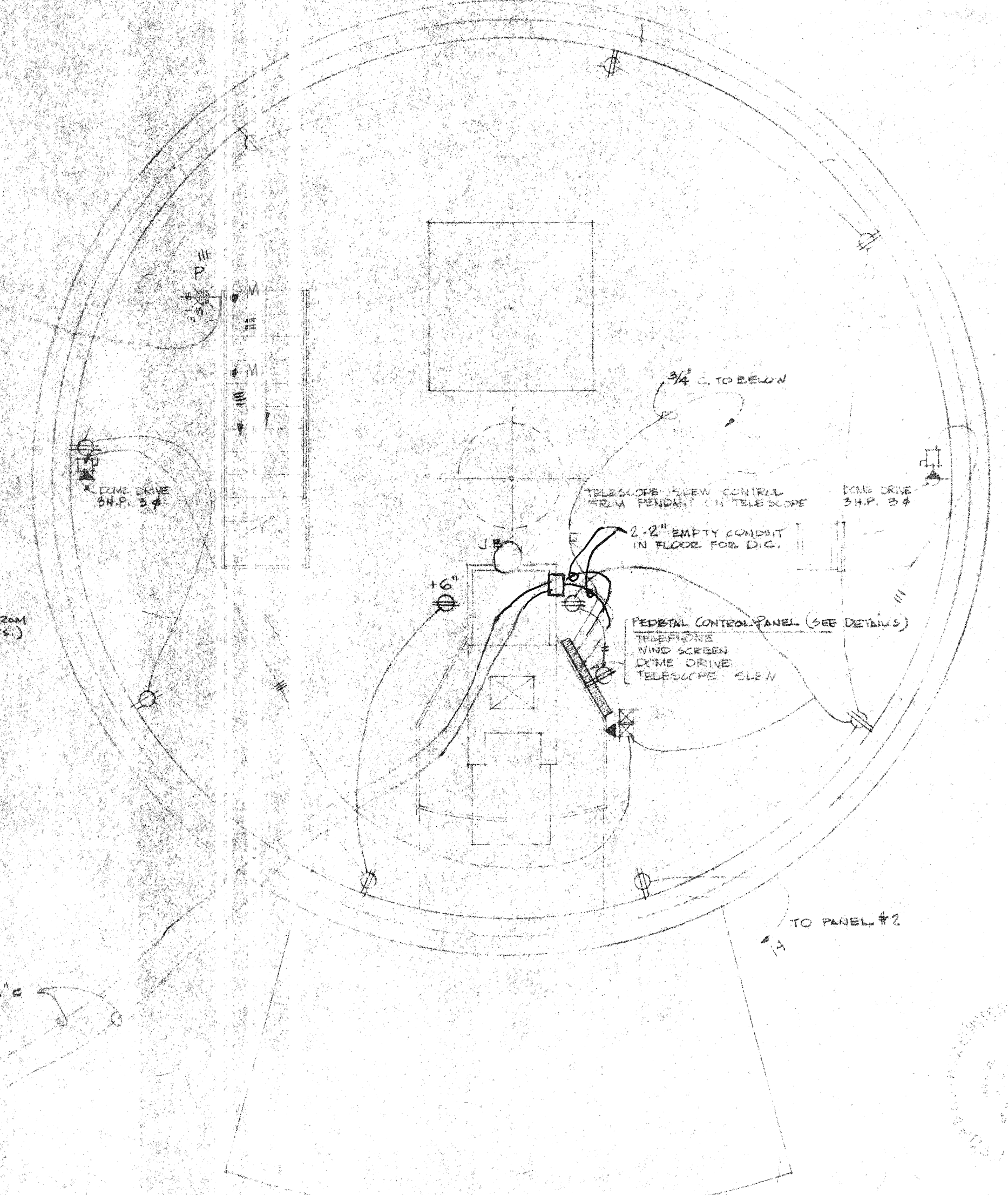
EDWARDS  
 70115

NOTE: ALL WIRING CONCEALED  
 EXCEPT SURFACE ENTRANCE  
 EQUIPMENT

UNDERGROUND SERVICE  
 84 420 VOLTS



NOTE:  
 ALL WIRING CONCEALED  
 THIS FLOOR.



TELESCOPE VIEW CONTROL  
 1/2" x 1/4" PENDANT ON TELESCOPE

2-2" EMPTY CONDUIT  
 IN FLOOR FOR D.C.

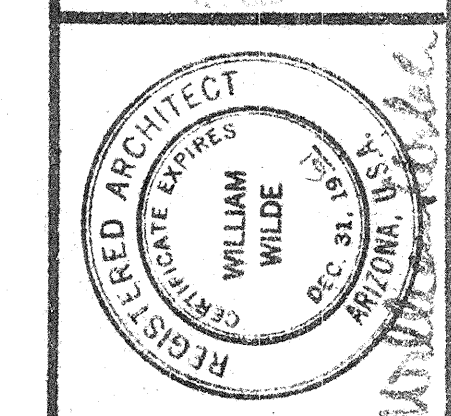
PERIPHERAL CONTROL PANEL (SEE DETAILS)  
 TELESCOPE VIEW CONTROL  
 1/2" x 1/4" PENDANT ON TELESCOPE  
 DOME DRIVE  
 TELESCOPE VIEW CONTROL

FIRST FLOOR 1/4"=1'-0"

2ND FLOOR 1/4"=1'-0"

AS-BUILT DRAWING

3RD FLOOR (DOME) 1/4"=1'-0"



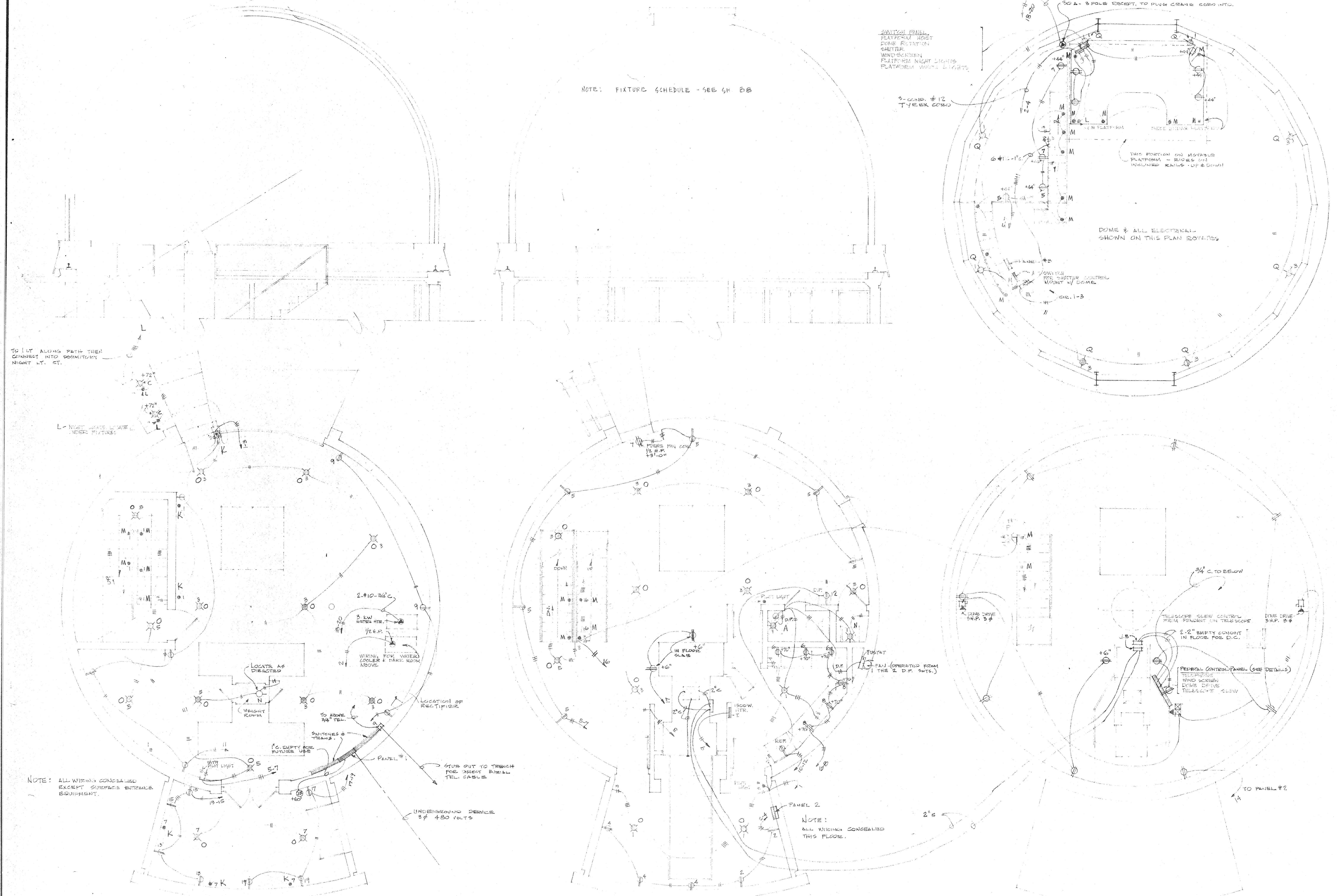
**WILLIAM WILDE ARCHITECT AIA**  
 ARCHITECTURE · INDUSTRIAL DESIGN · SPACE PLANNING  
 151 SOUTH TUCSON BOULEVARD · TUCSON, ARIZONA · EA 5-3373

STEWART OBSERVATORY  
 UNIVERSITY OF ARIZONA  
 KITT PEAK

OBSERVATORY  
 ELECTRICAL PLANS  
 AS BUILT

ISSUE DATE  
 10-2-61  
 COMMISSION  
 6-1559  
**C8**

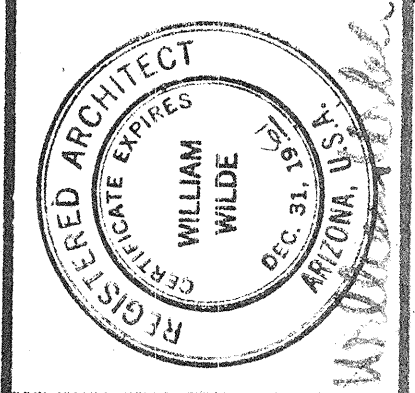




FIRST FLOOR 1/4" = 1'-0"

2ND FLOOR 1/4" = 1'-0"

3RD FLOOR (DOME) 1/4" = 1'-0"

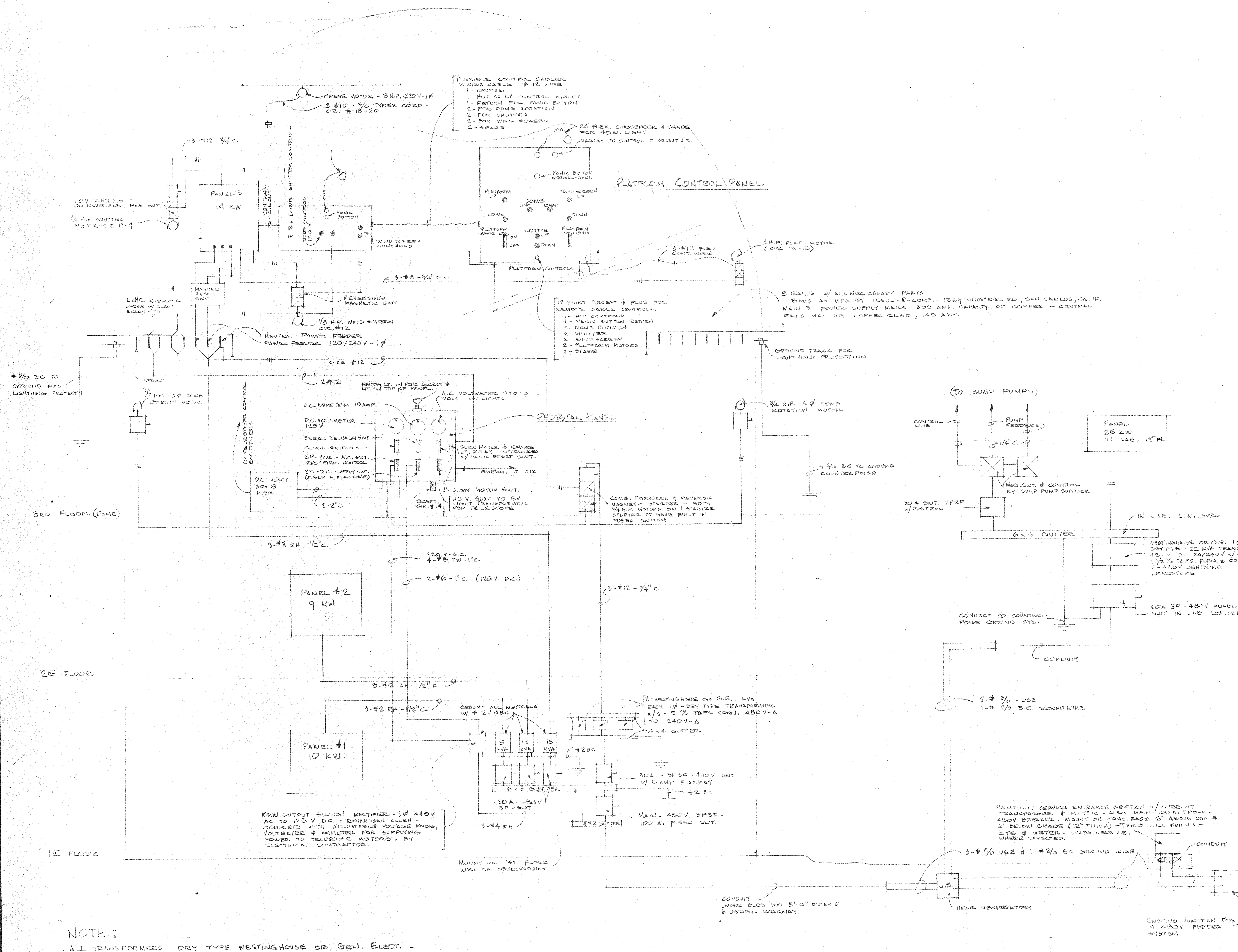


**WILLIAM WILDE ARCHITECT - AIA**  
 ARCHITECTURE - INDUSTRIAL DESIGN - SPACE PLANNING  
 151 SOUTH TUCSON BOULEVARD - TUCSON, ARIZONA - EA 5-3573  
 REGISTERED ARCHITECT - STATE OF ARIZONA - NO. 31,787

**STEWART OBSERVATORY  
 UNIVERSITY OF ARIZONA  
 KITT PEAK**

**OBSERVATORY  
 ELECTRICAL PLANS**

DRAWING	C8	ISSUE DATE	10-2-61
		COMMISSION	6-1959



**NOTE:**

1. ALL TRANSFORMERS DRY TYPE WESTINGHOUSE OR GEN. ELECT. - ALL MOUNTED - ALL WIRING ENCLOSED - ALL SHALL HAVE 2-5% OR 4-2 1/2% TAPS. KVA AS SHOWN. - VOLTAGE SHALL BE 480 TO 120/240.

2. ALL TRANSFORMERS SHALL HAVE LIGHTNING ARRESTORS ON THE 480V. SIDE

OBSERVATORY

**PANEL - 1 (1st Floor)**

SURFACE - 8" DEEP CAN RECESSED 4" INTO WALL - 100 A. MAIN BRKR.

SURFACE DESTINATION	CIR	BRKR	A	B	BRKR	CIR	DESTINATION
1	1P	30	700	600			2 WATER COOLER
2							4 SPARE
3			900				
4							
5							
6							
7							
8							
9			300				
10							
11							
12							
13			600				
14							
15			600	1500			
16							
17			600	1500			18 WATER HEATER
18							
19							
20							
21							
22							
23							
24							
25							
26							
27							
28							
29							
30							
31							
32							
33							
34							
35							
36							
37							
38							
39							
40							
41							
42							

TOTAL - 10 KW.

**PANEL - 2 (2ND FLOOR)**

SURFACE - 8" DEEP CAN RECESSED 4" INTO WALL - 100 A. MAIN BRKR.

SURFACE DESTINATION	CIR	BRKR	A	B	BRKR	CIR	DESTINATION
1	1P	30	600	600			2 RECEPT.
2							4
3							6
4			600	600			8
5							10
6							12 REFR.
7			1500	600			14 D.F.
8							16 3RD FLOOR RECEPT.
9							18 STAIR
10							20 RECEPT.
11							22 SPARE
12							
13							
14							
15			600				
16							
17							
18			300				
19							
20							
21							
22							
23							
24							
25							
26							
27							
28							
29							
30							
31							
32							
33							
34							
35							
36							
37							
38							
39							
40							
41							
42							

TOTAL - 9 KW.

**PANEL - 3 (DOME FLOOR)**

SURFACE - 8" DEEP CAN RECESSED 4" INTO WALL - 100 A. MAIN BRKR.

SURFACE DESTINATION	CIR	BRKR	A	B	BRKR	CIR	DESTINATION
1	1P	30	1200	800			2 RECEPT ON PLATFORM
2							4
3							6
4			300				8 SPARE
5							10
6							12 CONTROL CIR.
7							14 1/2 H.P. SCREEN MOTOR
8							16 DOME ROTATION CONT.
9							18 SPARE
10							20 5 H.P. HOIST
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							
23							
24							
25							
26							
27							
28							
29							
30							
31							
32							
33							
34							
35							
36							
37							
38							
39							
40							
41							
42							

TOTAL 12 KW. (FURNISH 24 BRKR. LOCK DOGS)

**PANEL -**

SURFACE - 8" DEEP CAN RECESSED 4" INTO WALL - 100 A. MAIN BRKR.

SURFACE DESTINATION	CIR	BRKR	A	B	C	BRKR	CIR	DESTINATION
1	1P	30						2
2								4
3								6
4								8
5								10
6								12
7								14
8								16
9								18
10								20
11								22
12								24
13								26
14								28
15								30
16								32
17								34
18								36
19								38
20								40
21								42

TOTAL KW.

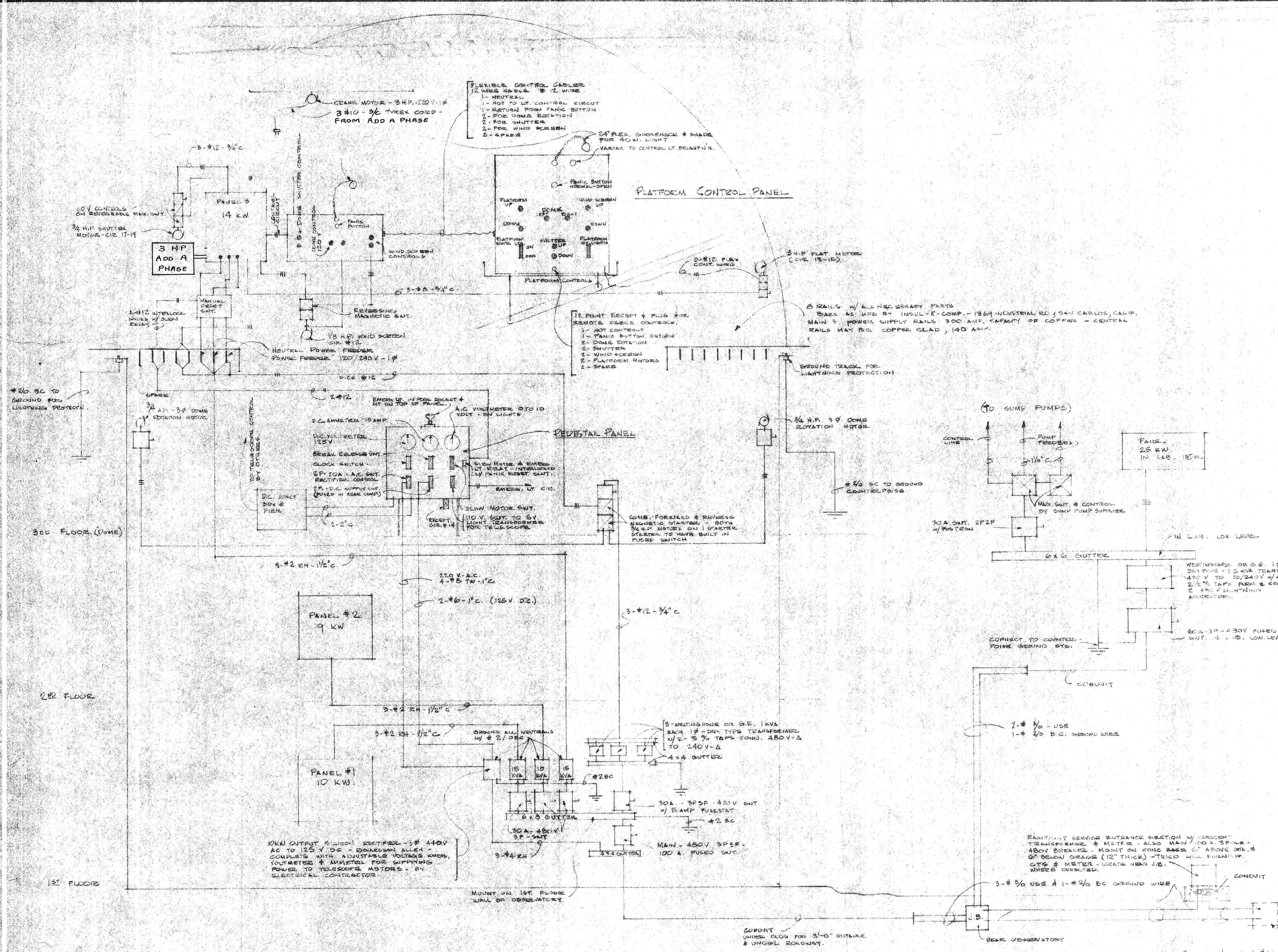
REGISTERED ARCHITECT  
 WILLIAM WILDE ARCHITECT - AIA  
 ARCHITECTURE - INDUSTRIAL DESIGN - SPACE PLANNING  
 181 SOUTH TUCSON BOULEVARD - TUCSON, ARIZONA - EA 9-3373

STEWARD OBSERVATORY  
 UNIVERSITY OF ARIZONA  
 KITT PEAK FIELD STATION

ELECTRICAL DETAILS

ISSUE DATE: 10-2-61  
 COMMISSION: 6-1859

DRAWING: C9



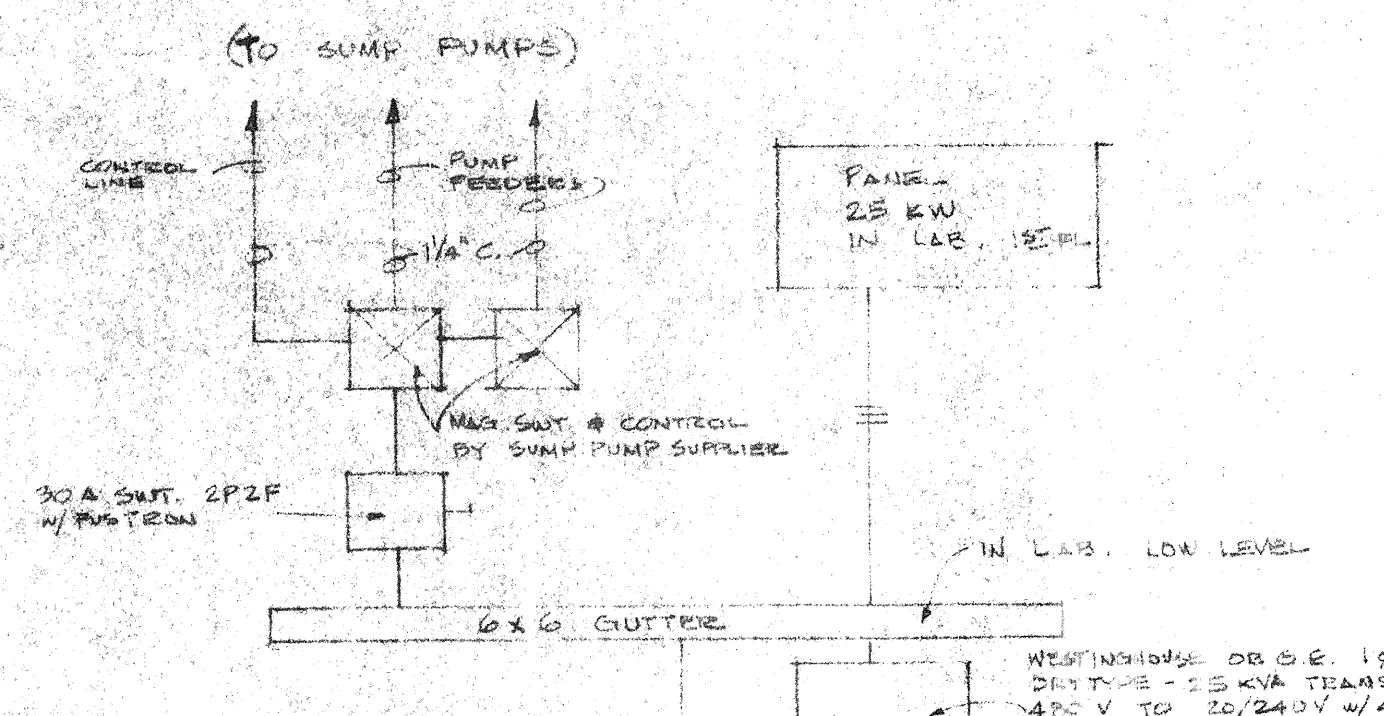
**FLEXIBLE CONTROL CABLES**  
 12 WIRE GAUGE #12 WIRE  
 1 - NEUTRAL  
 1 - HOT TO LT. CONTROL CIRCUIT  
 1 - RETURN FROM PANIC BUTTON  
 2 - FOR DOME ROTATION  
 2 - FOR SHUTTER  
 2 - FOR WIND SCREEN  
 2 - SPARE

**PLATFORM CONTROL PANEL**

**12 POINT RECEPT & PLUG BOX**  
 REMOTE CONTROL CABLES  
 1 - HOT CONTROL  
 2 - PANIC BUTTON RETURN  
 2 - DOME ROTATION  
 2 - SHUTTER  
 2 - WIND SCREEN  
 2 - PLATFORM MOTORS  
 2 - SPARE

**TELESCOPE PANEL**

COMB. FORWARD & REVERSE  
 MAGNETIC STARTER - BOTH  
 3/4 HP MOTORS ON 1 STARTER  
 STARTER TO HAVE BUILT IN  
 FUSED SWITCH



**NOTE:**  
 1 - ALL TRANSFORMERS DRY TYPE WESTINGHOUSE OR GEN. ELECT. -  
 WALL MOUNTED - ALL WIRING ENCLOSED - ALL SHALL HAVE  
 2-5% OR 4-2 1/2% TAPS. KVA AS SHOWN. VOLTAGE SHALL  
 BE 480 TO 120/240.  
 2 - ALL TRANSFORMERS SHALL HAVE LIGHTNING ARRESTORS ON THE 480V. SIDE

LOADS:	CONNECTED	EST. DEMAND
OBSERVATORY	36 KW	20 KW
LABORATORY	23 KW	12 KW
TOTAL	59 KW	32 KW

AS-BUILT DRAWING

OBSERVATORY

**PANEL - 1 (1ST FLOOR)**

SURFACE	DEEP CAN RECEIVED INTO WALL	100A MAIN BREAK	DESTINATION
1	100	1000	RECEPT
2	100	700	SPARE
3	300	-	RECEPT
4	600	-	SPARE
5	300	300	RECEPT
6	600	300	RECEPT
7	600	300	RECEPT
8	600	300	RECEPT
9	600	300	RECEPT
10	600	1500	RECEPT
11	600	1500	RECEPT
12	600	1500	RECEPT
13	600	1500	RECEPT
14	600	1500	RECEPT
15	600	1500	RECEPT
16	600	1500	RECEPT
17	600	1500	RECEPT
18	600	1500	RECEPT
19	600	1500	RECEPT
20	600	1500	RECEPT
21	600	1500	RECEPT
22	600	1500	RECEPT
23	600	1500	RECEPT
24	600	1500	RECEPT
25	600	1500	RECEPT
26	600	1500	RECEPT
27	600	1500	RECEPT
28	600	1500	RECEPT
29	600	1500	RECEPT
30	600	1500	RECEPT
31	600	1500	RECEPT
32	600	1500	RECEPT
33	600	1500	RECEPT
34	600	1500	RECEPT
35	600	1500	RECEPT
36	600	1500	RECEPT
37	600	1500	RECEPT
38	600	1500	RECEPT
39	600	1500	RECEPT
40	600	1500	RECEPT
41	600	1500	RECEPT
42	600	1500	RECEPT

TOTAL 10 KW

**PANEL - 2 (2ND FLOOR)**

SURFACE	DEEP CAN RECEIVED INTO WALL	100A MAIN BREAK	DESTINATION
1	100	1000	RECEPT
2	100	600	RECEPT
3	300	600	RECEPT
4	600	600	RECEPT
5	600	600	RECEPT
6	600	600	RECEPT
7	600	600	RECEPT
8	600	600	RECEPT
9	600	600	RECEPT
10	600	600	RECEPT
11	600	600	RECEPT
12	600	600	RECEPT
13	600	600	RECEPT
14	600	600	RECEPT
15	600	600	RECEPT
16	600	600	RECEPT
17	600	600	RECEPT
18	600	600	RECEPT
19	600	600	RECEPT
20	600	600	RECEPT
21	600	600	RECEPT
22	600	600	RECEPT
23	600	600	RECEPT
24	600	600	RECEPT
25	600	600	RECEPT
26	600	600	RECEPT
27	600	600	RECEPT
28	600	600	RECEPT
29	600	600	RECEPT
30	600	600	RECEPT
31	600	600	RECEPT
32	600	600	RECEPT
33	600	600	RECEPT
34	600	600	RECEPT
35	600	600	RECEPT
36	600	600	RECEPT
37	600	600	RECEPT
38	600	600	RECEPT
39	600	600	RECEPT
40	600	600	RECEPT
41	600	600	RECEPT
42	600	600	RECEPT

TOTAL 9 KW

**PANEL - 3 (DOME FLOOR)**

SEE ATTACHED DRAWING N1

TOTAL 12 KW (FURNISH 24 BREAK LOCK DOORS)

**PANEL - 4**

SURFACE	DEEP CAN RECEIVED INTO WALL	100A MAIN BREAK	DESTINATION
1	100	1000	RECEPT
2	100	1000	RECEPT
3	100	1000	RECEPT
4	100	1000	RECEPT
5	100	1000	RECEPT
6	100	1000	RECEPT
7	100	1000	RECEPT
8	100	1000	RECEPT
9	100	1000	RECEPT
10	100	1000	RECEPT
11	100	1000	RECEPT
12	100	1000	RECEPT
13	100	1000	RECEPT
14	100	1000	RECEPT
15	100	1000	RECEPT
16	100	1000	RECEPT
17	100	1000	RECEPT
18	100	1000	RECEPT
19	100	1000	RECEPT
20	100	1000	RECEPT
21	100	1000	RECEPT
22	100	1000	RECEPT
23	100	1000	RECEPT
24	100	1000	RECEPT
25	100	1000	RECEPT
26	100	1000	RECEPT
27	100	1000	RECEPT
28	100	1000	RECEPT
29	100	1000	RECEPT
30	100	1000	RECEPT
31	100	1000	RECEPT
32	100	1000	RECEPT
33	100	1000	RECEPT
34	100	1000	RECEPT
35	100	1000	RECEPT
36	100	1000	RECEPT
37	100	1000	RECEPT
38	100	1000	RECEPT
39	100	1000	RECEPT
40	100	1000	RECEPT
41	100	1000	RECEPT
42	100	1000	RECEPT

TOTAL KW

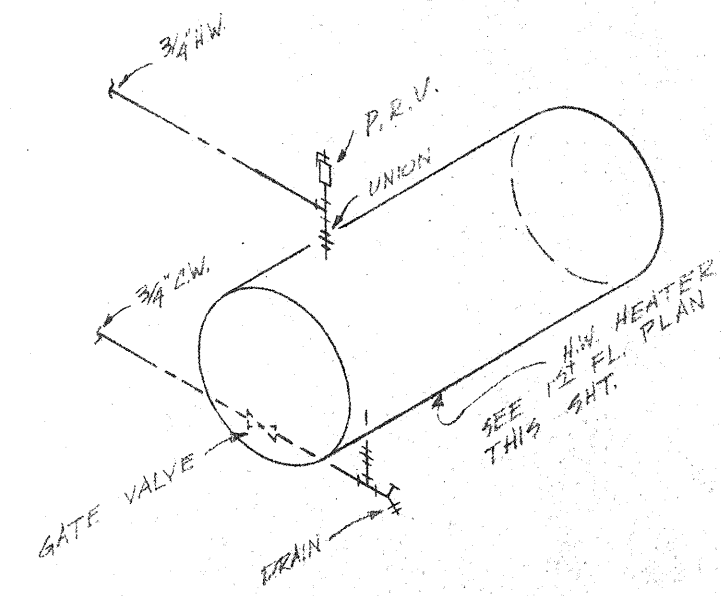
**REGISTERED ARCHITECT**  
**WILLIAM WILDE ARCHITECT - AIA**  
 ARCHITECTURE - INDUSTRIAL DESIGN - SPACE PLANNING  
 181 SOUTH TUCSON BOULEVARD - TUCSON, ARIZONA - EA  
 5-3373

**STEWARD OBSERVATORY**  
**UNIVERSITY OF ARIZONA**  
**KITT PEAK FIELD STATION**

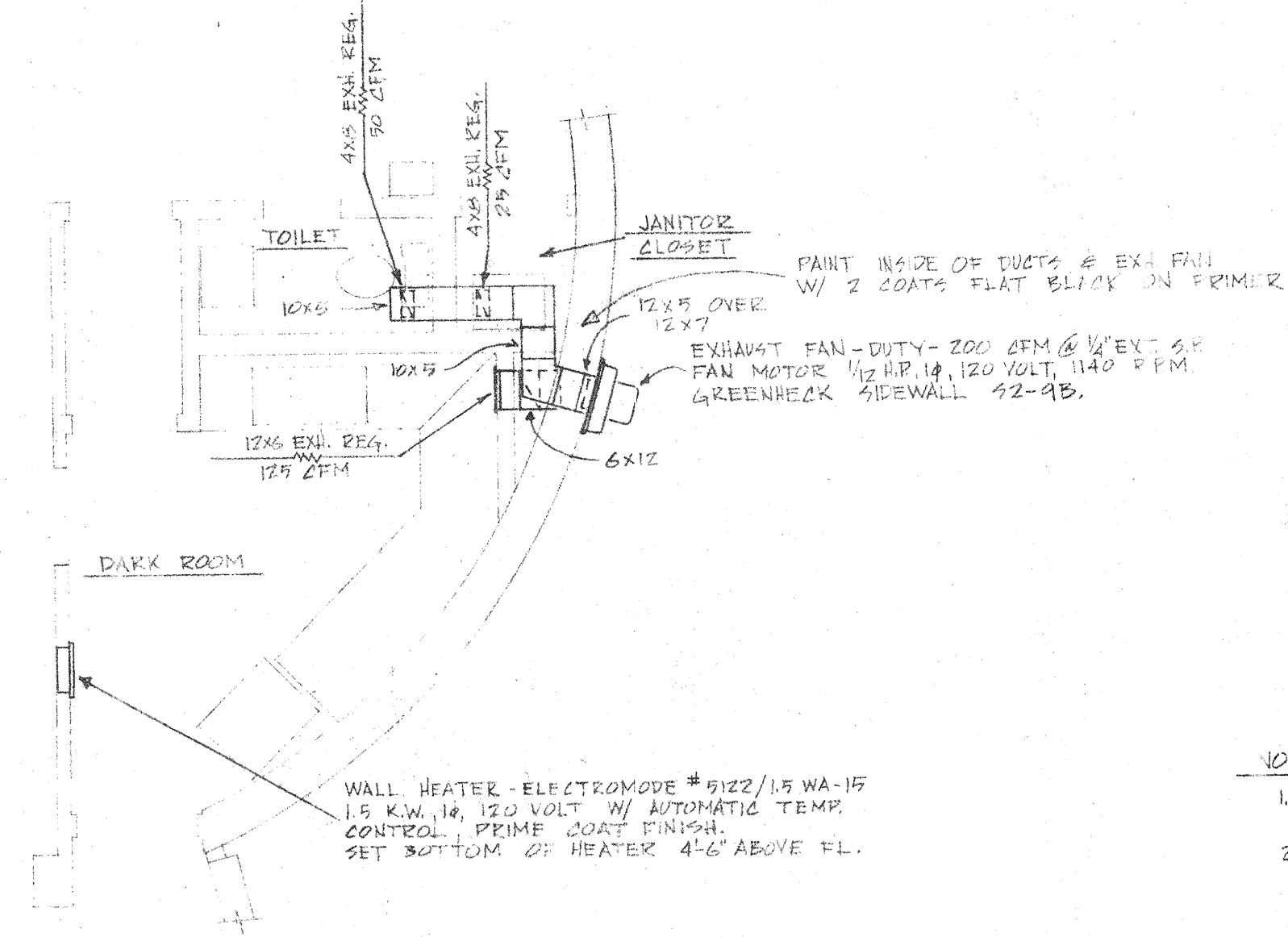
**ELECTRICAL DETAILS**  
 AS BUILT

DRAWING DATE: 10-2-6  
 COMMISSION: 1581-6-1889

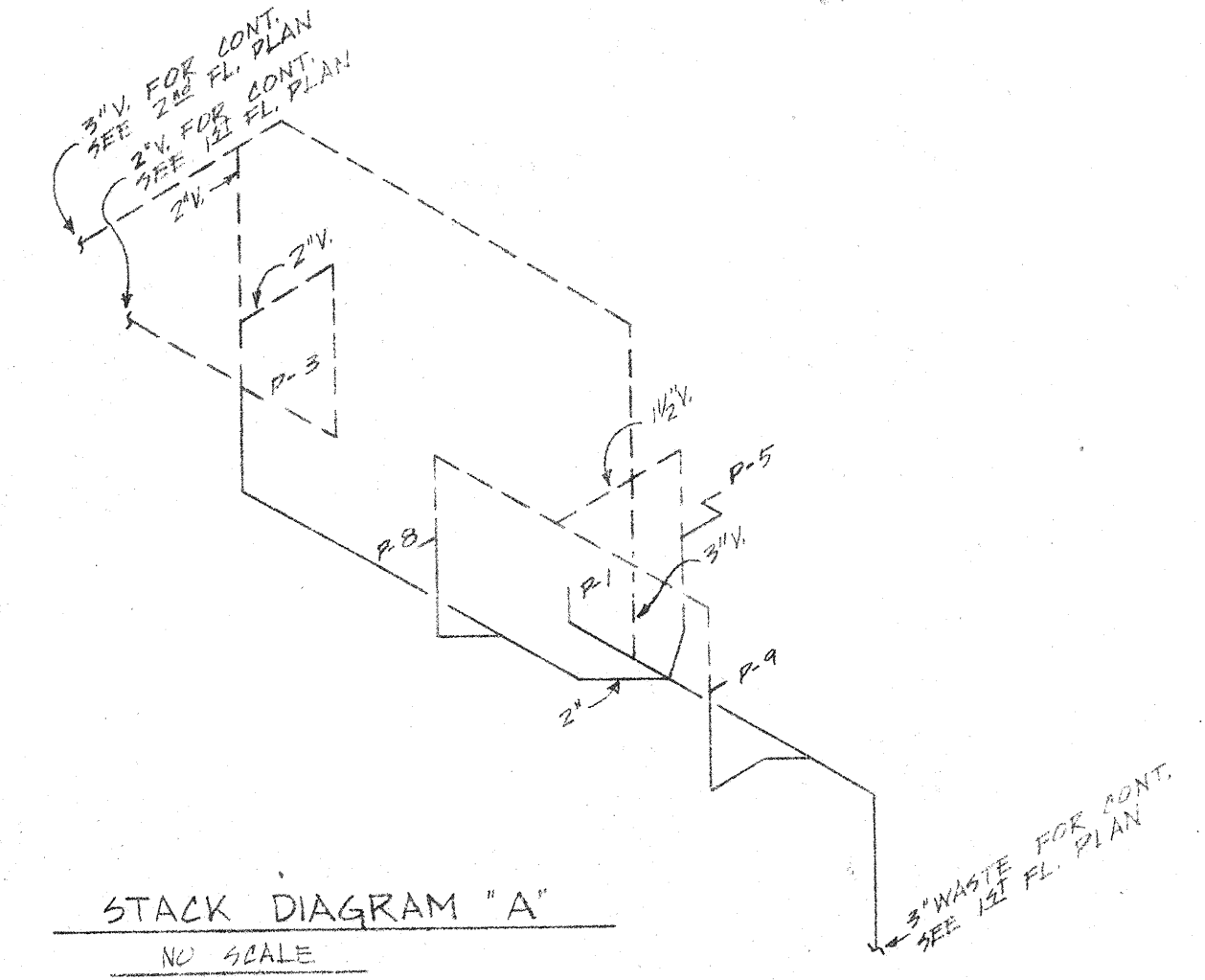
**C9**



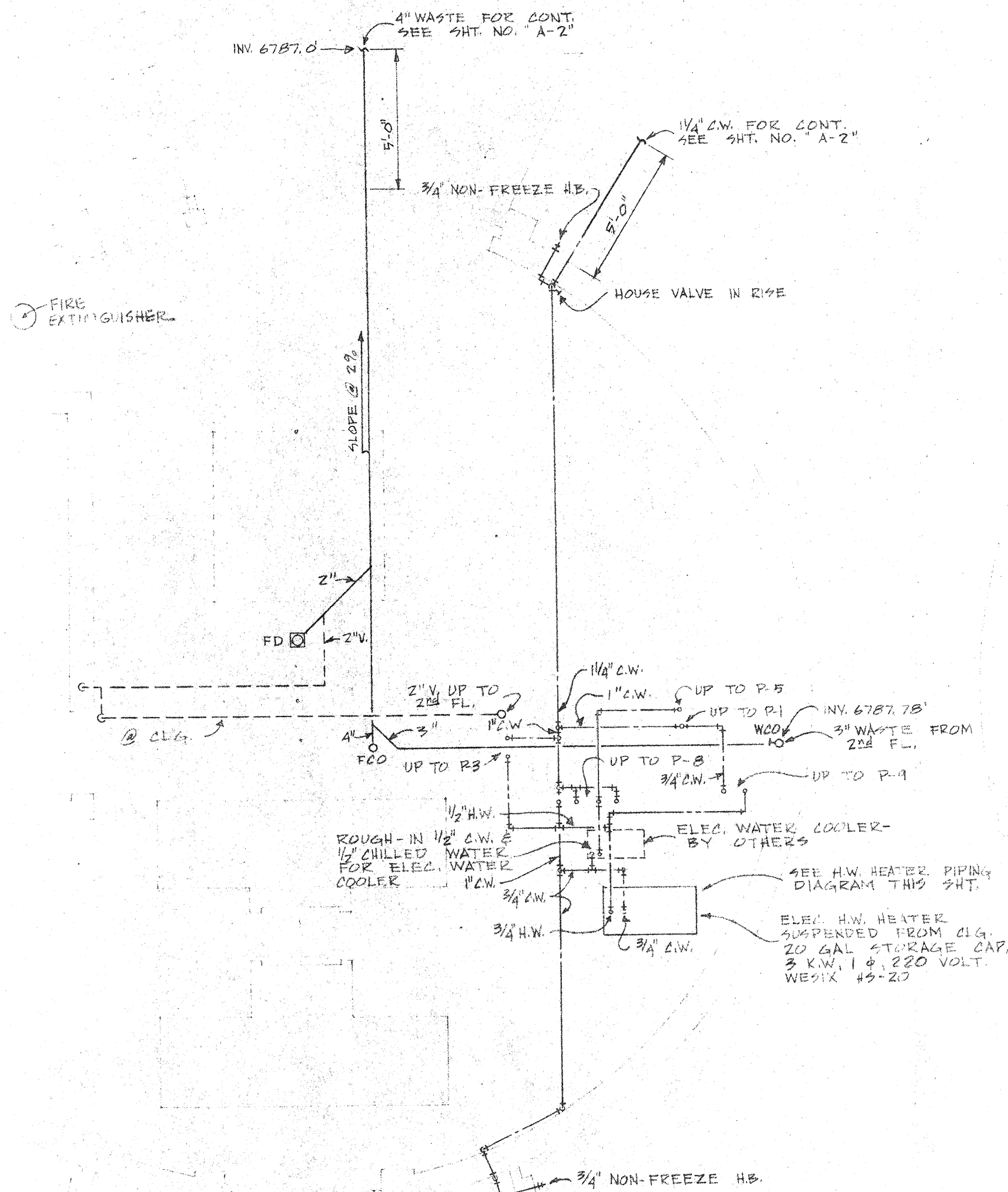
HOT WATER HEATER PIPING DIAGRAM  
NO SCALE



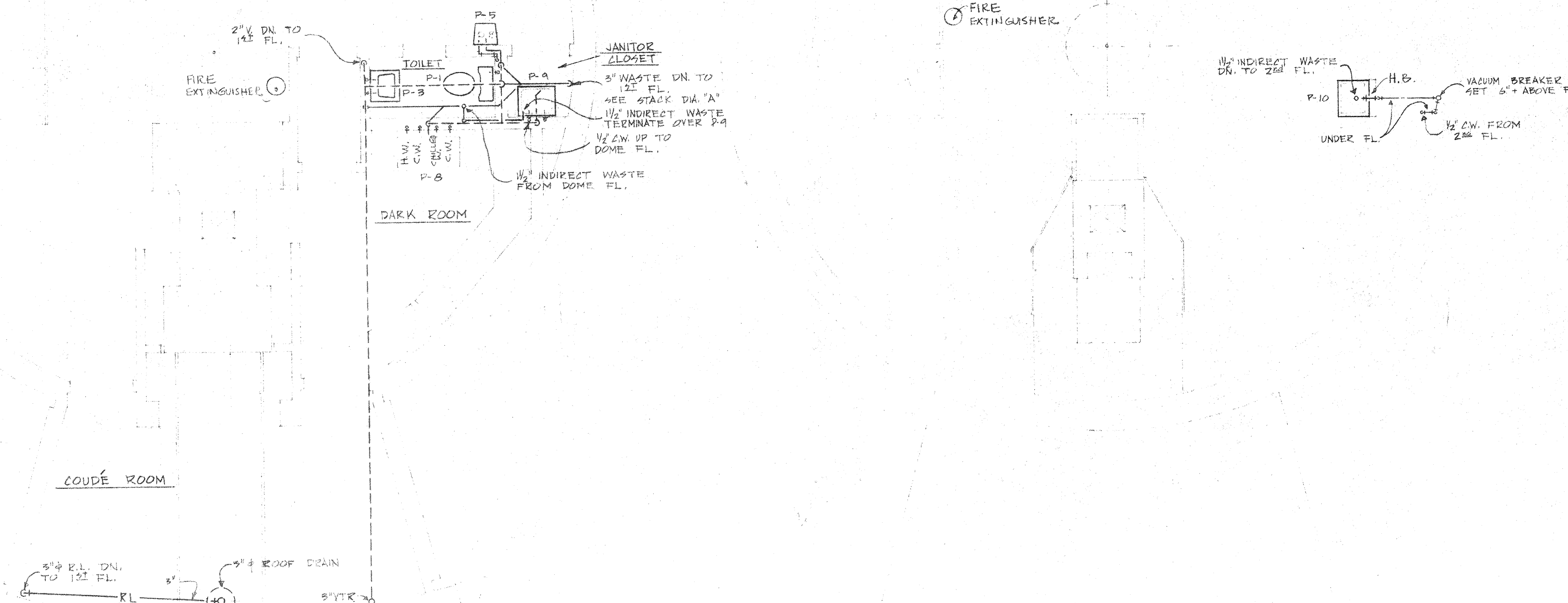
PARTIAL SECOND FLOOR PLAN-MECHANICAL  
SCALE 1/4" = 1'-0"



- NOTES
1. SEE SHEET NO. "B-2" FOR PLUMBING SYMBOL LIST & PLUMBING FIXTURE SCHEDULE.
  2. SEE SHEET NO. "B-7" FOR MECHANICAL SYMBOL LIST.

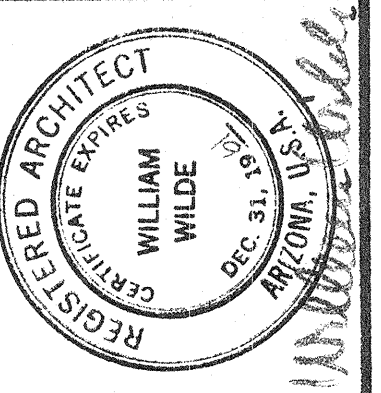
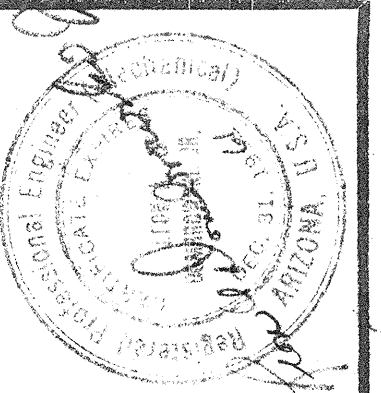


FIRST FLOOR PLAN  
SCALE 1/4" = 1'-0"



SECOND FLOOR PLAN  
SCALE 1/4" = 1'-0"

DOMES FLOOR PLAN  
SCALE 1/4" = 1'-0"

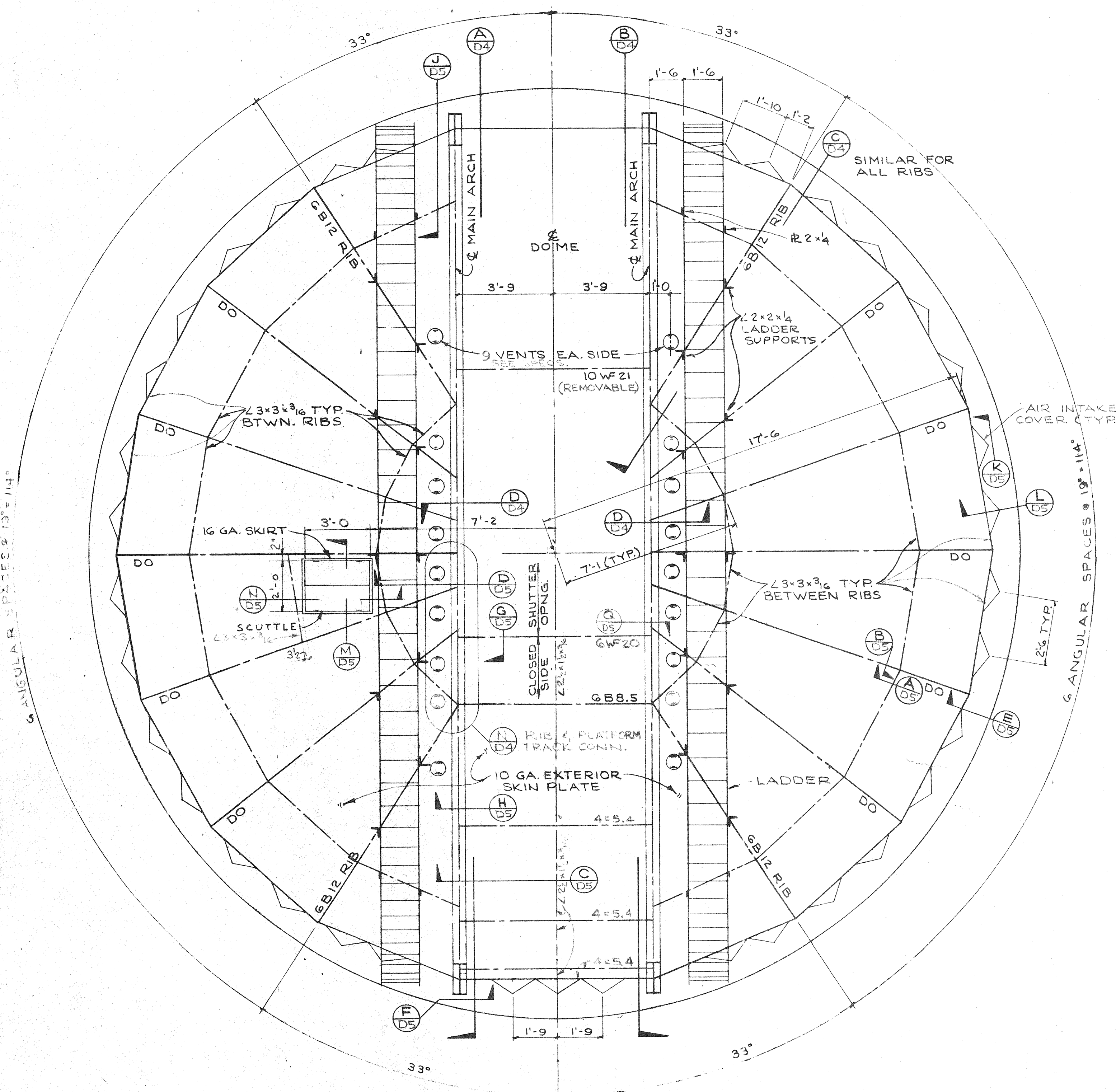


**AIA**  
WILLIAM WILDE · ARCHITECT · ARCHITECTURE · INDUSTRIAL DESIGN · SPACE PLANNING  
151 SOUTH TUCSON BOULEVARD · TUCSON, ARIZONA · EA 5-3373

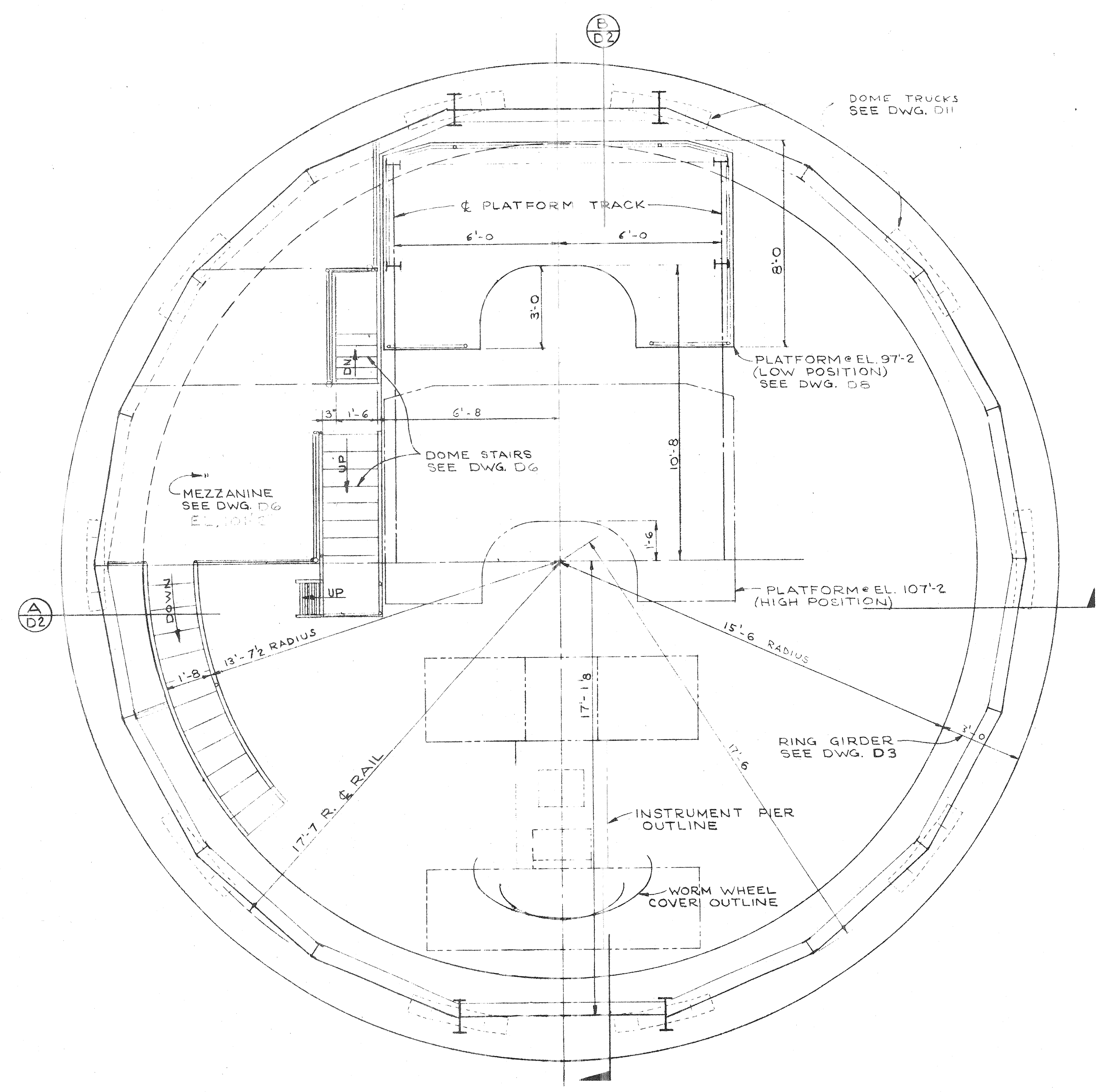
STEWART OBSERVATORY  
UNIVERSITY OF ARIZONA  
KITT PEAK

OBSERVATORY  
PLUMBING, VENTILATION  
& HEATING

DRIVING	ISSUE DATE	COMMISSION
	10-2-61	6-1859
<b>C10</b>		



**DOME FRAMING PLAN**  
SCALE ~ 3/8" = 1'-0"



**DOME PLAN**  
SCALE ~ 3/8" = 1'-0"

**DESIGN LOADS:**

DOME: SNOW: FOR SLOPE 0° TO 30° : 20 #/ft<sup>2</sup>  
 30° TO 45° : 10 #/ft<sup>2</sup>  
 MORE THAN 45° : NO SNOW LOAD

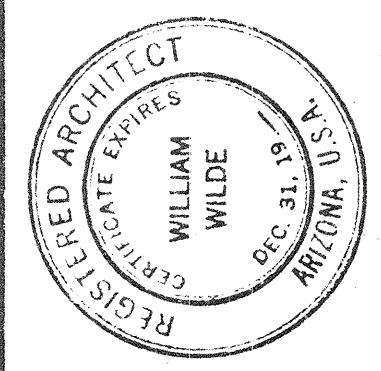
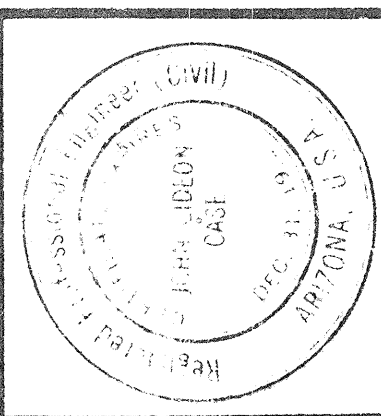
WIND: VELOCITY 100 MILES PER HOUR

SEISMIC: LATERAL LOAD OF 4.7% OF DEAD LOAD, APPLIES TO MEZZANINE AND PLATFORM ALSO.

MEZZANINE: LIVE LOAD: 40 #/ft<sup>2</sup> UNIFORMLY DISTRIBUTED, OR CONCENTRATED LOAD OF 2000 #, ON 2'-0" X 4'-0" AREA.

PLATFORM: LIVE LOAD: SAME AS FOR MEZZANINE, EXCEPT THAT CONCENTRATED LOAD ON CANTILEVER SHALL NOT EXCEED 500 #.

INSTRUMENT PIER: SEISMIC: LATERAL LOAD OF 10% OF WEIGHT OF INSTRUMENT AND PIER.

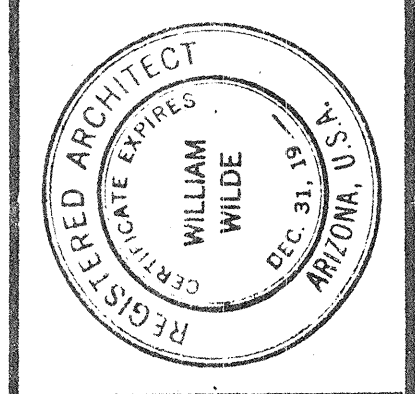
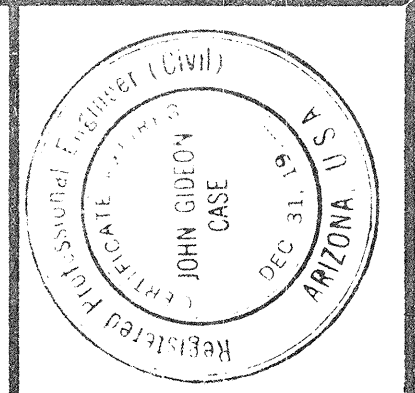


**WILLIAM WILDE ARCHITECT AIA**  
 ARCHITECTURE · INDUSTRIAL DESIGN · SPACE PLANNING  
 151 SOUTH TUCSON BOULEVARD · TUCSON, ARIZONA · EA 03373  
 PHONE: (520) 795-1111 FAX: (520) 795-1112  
 WWW: WWW.WILDEARCHITECT.COM

STEWART OBSERVATORY  
 UNIVERSITY OF ARIZONA  
 KITT PEAK

DOME FRAMING PLAN  
 DOME PLAN  
 DESIGN LOADS

DRAWING	ISSUE DATE	COMMISSION
<b>DI</b>		

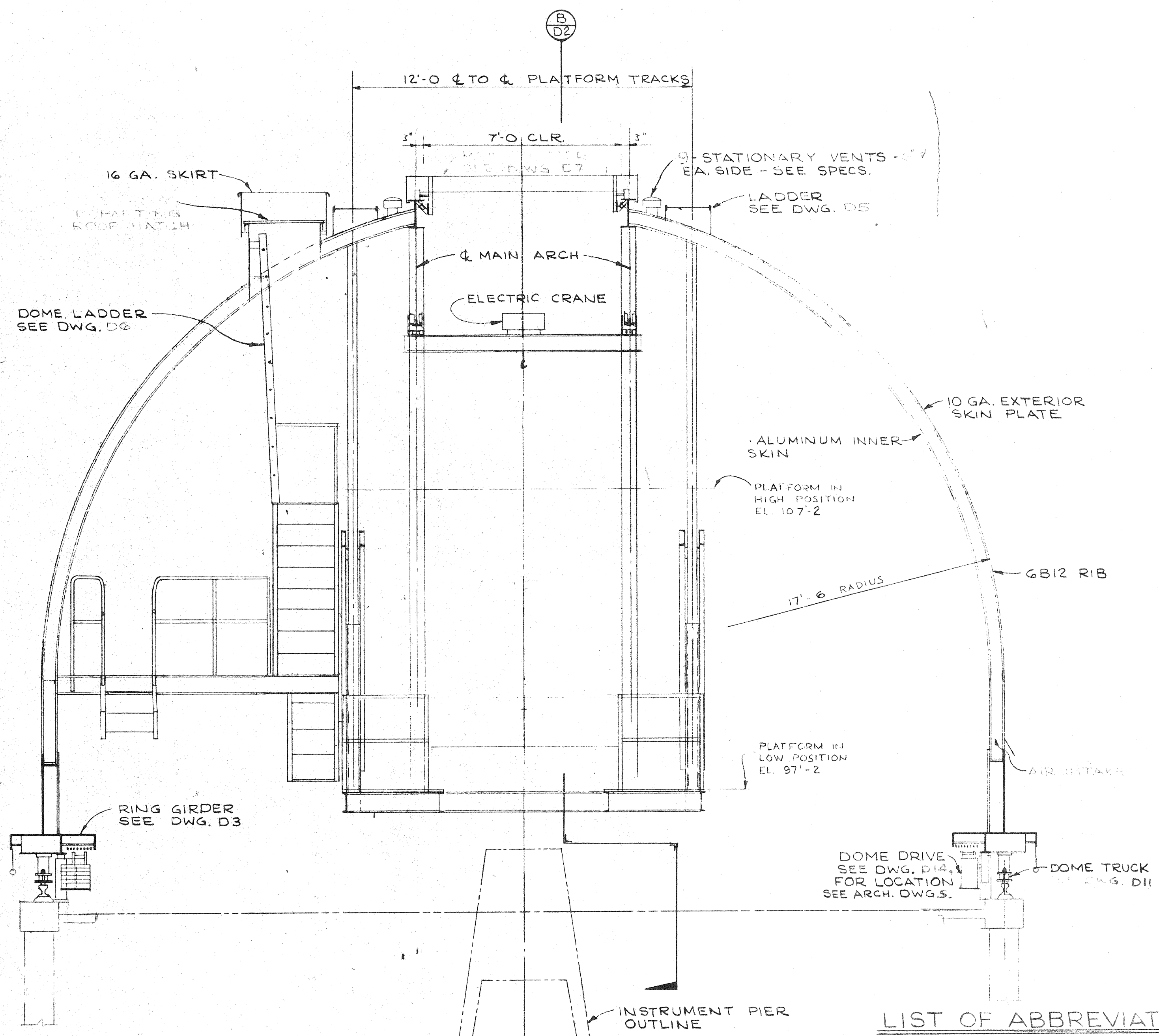


**WILLIAM WILDE ARCHITECT AIA**  
 ARCHITECTURE · INDUSTRIAL DESIGN · SPACE PLANNING  
 151 SOUTH TUCSON BOULEVARD · TUCSON, ARIZONA · EA 5-3373

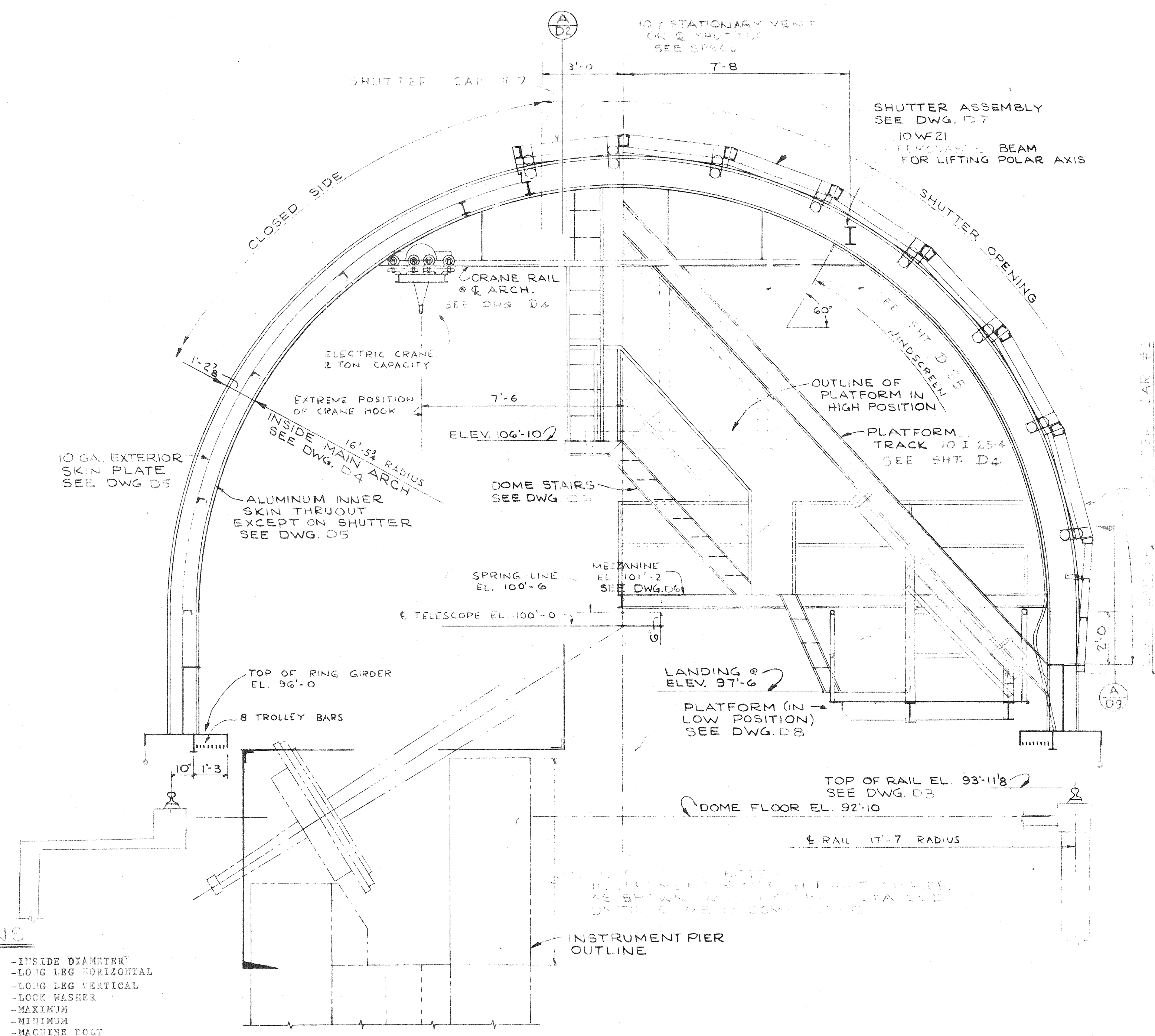
STEWART OBSERVATORY  
 UNIVERSITY OF ARIZONA  
 KITT PEAK

DOMES SECTIONS &  
 LIST OF ABBREVIATIONS

ISSUE DATE: 6-25-57  
 DRAWING: D2  
 COMMISSION: 6-25-57



**DOMES SECTION A**  
 SCALE - 3/8" = 1'-0"  
 D2



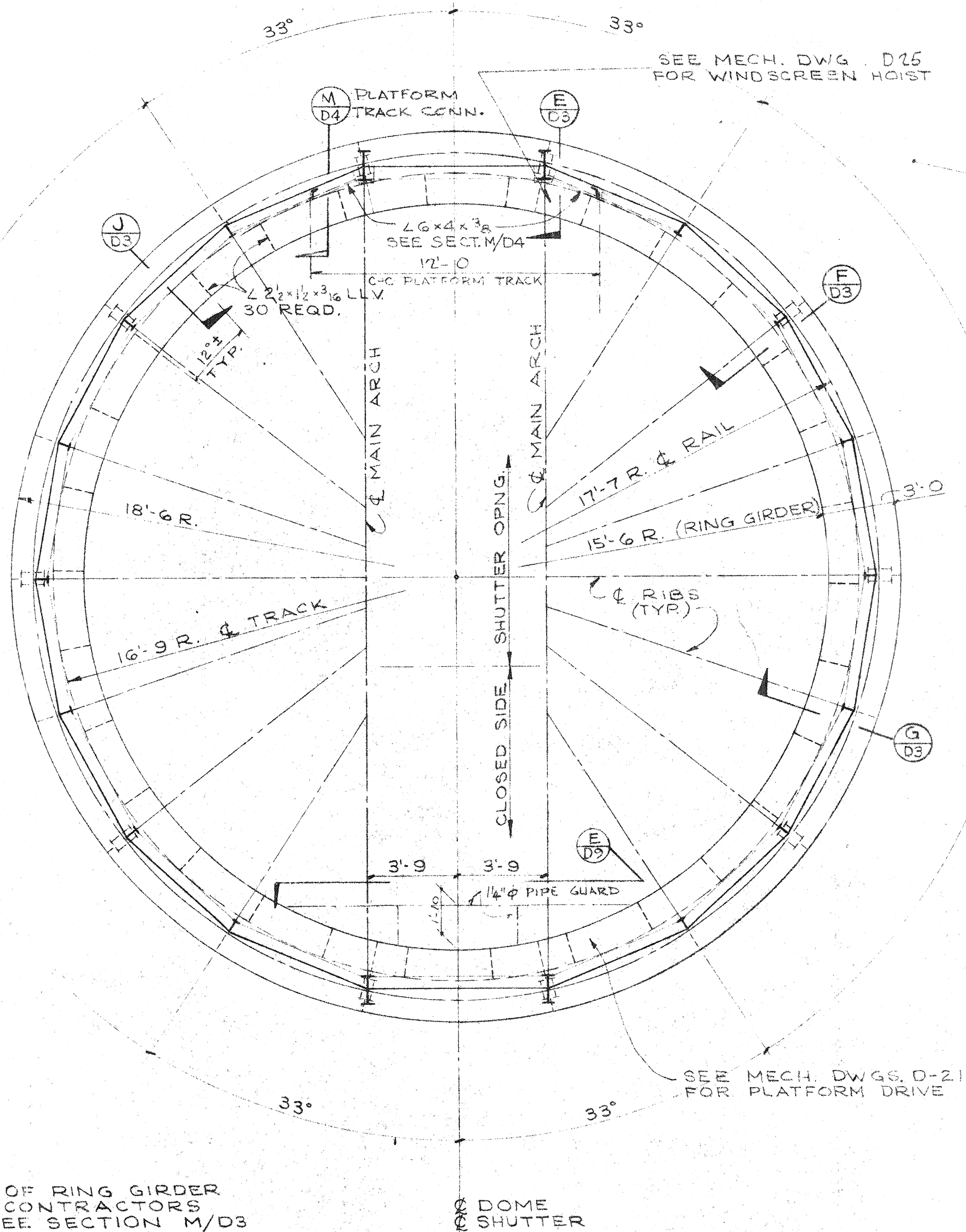
**DOMES SECTION B**  
 SCALE - 3/8" = 1'-0"  
 D2

**LIST OF ABBREVIATIONS**

A.I.S.C. - AMERICAN INSTITUTE OF STEEL CONSTRUCTION	I.D. - INSIDE DIAMETER
ALT. - ALTERNATE	L.L.H. - LONG LEG HORIZONTAL
ALUM. - ALUMINUM	L.L.V. - LONG LEG VERTICAL
ARCH. - ARCHITECT	L.W. - LOCK WASHER
ASSEMB. - ASSEMBLY	MAX. - MAXIMUM
A.S.T.M. - AMERICAN SOCIETY FOR TESTING MATERIALS	MIN. - MINIMUM
B.E. - BOTH ENDS	M.F. - MACHINE FOLT
B. - BEAM	MISC. - MISCELLANEOUS
B.R. - BRACING	N.P.T. - NATIONAL PIPE THREAD
B.S. - BOTH SIDES	N.T.S. - NOT TO SCALE
B.W. - BETWEEN	O.D. - OUTSIDE DIAMETER
CAD. - CADMIUM	O.P.G. - OPENING
C.F. - COLD FORGED	O.P.P. - OPPOSITE END
C.A.M. - CAMMER	C.A. - CALIFORNIA OPEN WEB JOISTS
CL. - CLEAR	PLYWD. - PLYWOOD
COL. - COLUMN	P.T.F. - PIPE THREAD FITTING
CONC. - CONCRETE	R. - RADIUS
CONN. - CONNECTION	R. - RISER (STAIR)
CONT. - CONTINUOUS	R.C. - ROCKWELL HARDNESS-SCALE C
CONTR. - CONTRACTOR	REF. - REFERENCE
C.R. - COLD ROLLED	REQD. - REQUIRED
DEL. - DOUBLE	R.P.M. - REVOLUTIONS PER MINUTE
DIA. - DIAMETER	S.A.E. - SOCIETY OF AUTOMOTIVE ENGINEERS
DIM. - DIMENSION	SC. - SCHEDULE
DTL. - DETAIL	SEE - SEE
DWG. - DRAWING	SIM. - SIMILAR
E.A. - EACH	S.M.SCR. - SHEET METAL SCREW
ECC. - ECCENTRIC	S.T.SCR. - SELF-TAPPING SCREW
EL. - ELEVATION	SPECS. - SPECIFICATIONS
E.W. - EACH WAY	SO. - SQUARE
F.B. - FLAT BAR	STD. - STANDARD
FIN. - FINISH	STL. - STEEL
FL. - FLOOR	STRUCT. - STRUCTURAL
FL.D. - FLAT HEAD	SOC. HD. - SOCKET HEAD
G.A. - GAUGE	T. - TREAD (STAIR)
GALV. - GALVANIZED	TR. - TRUCK
G.E. - GENERAL ELECTRIC	T.I.R. - TOP INDICATOR READING
H.I.EM. - HIGH TENSILE	TYP. - TYPICAL
H.N. - HEX NUT	U.N.C. - UNITED NATIONAL COARSE
HORIZ. - HORIZONTAL	U.N.F. - UNITED NATIONAL FINE
H.P. - HORSEPOWER	V. - VOLT
H. - HITCH	VERT. - VERTICAL
	V.W. - WELDED WIRE MESH

A	DETAIL NO.
D1	SHEET NO.
Ø	- DIAMETER
⊕	- CENTERLINE
⊖	- ON CENTERS
⊗	- WITH
⊘	- AT
⊙	- PLATE
∠	- ANGLE
⊔	- CHANNEL
⊥	- WIDE FLANGE BEAM
⊚	- CYCLE
⊛	- SURFACE FINISH

6 ANGULAR SPACES @ 19° = 114°

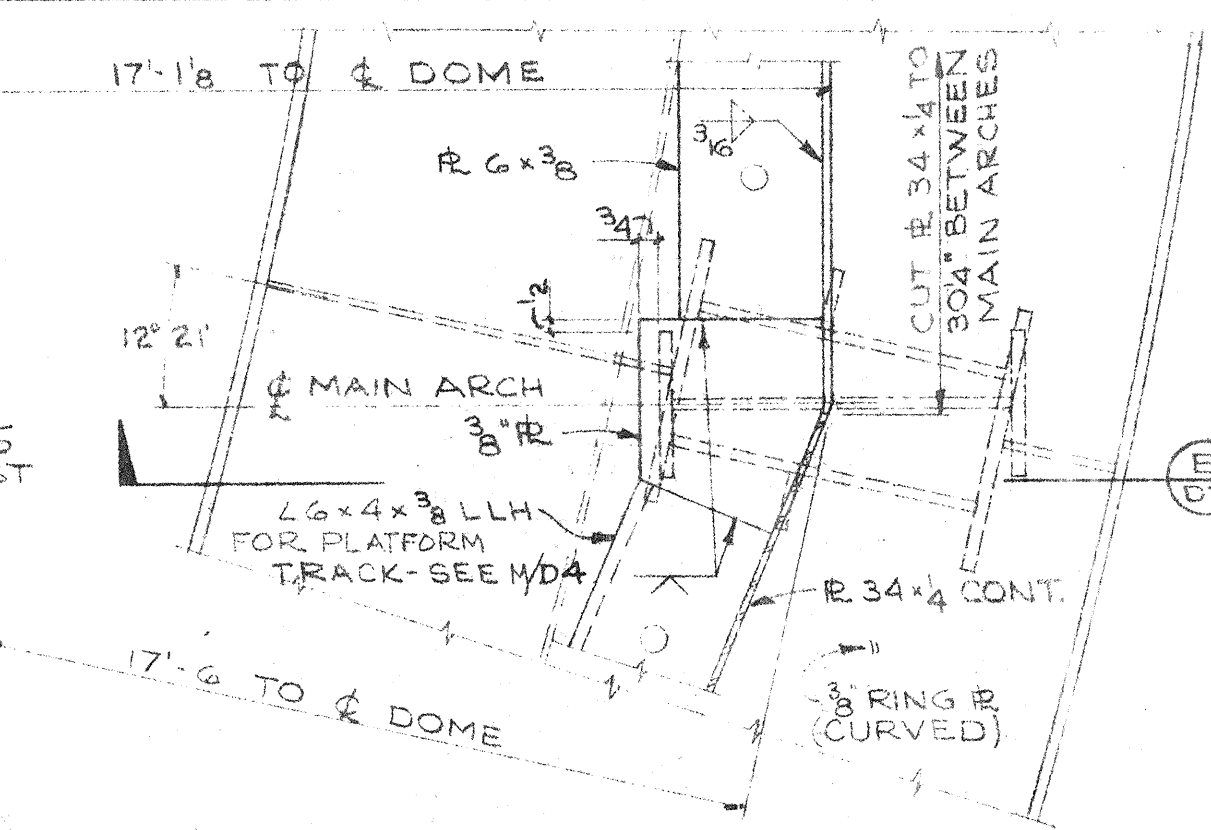


**RING GIRDER PLAN**  
SCALE - 1/2" = 1'-0"

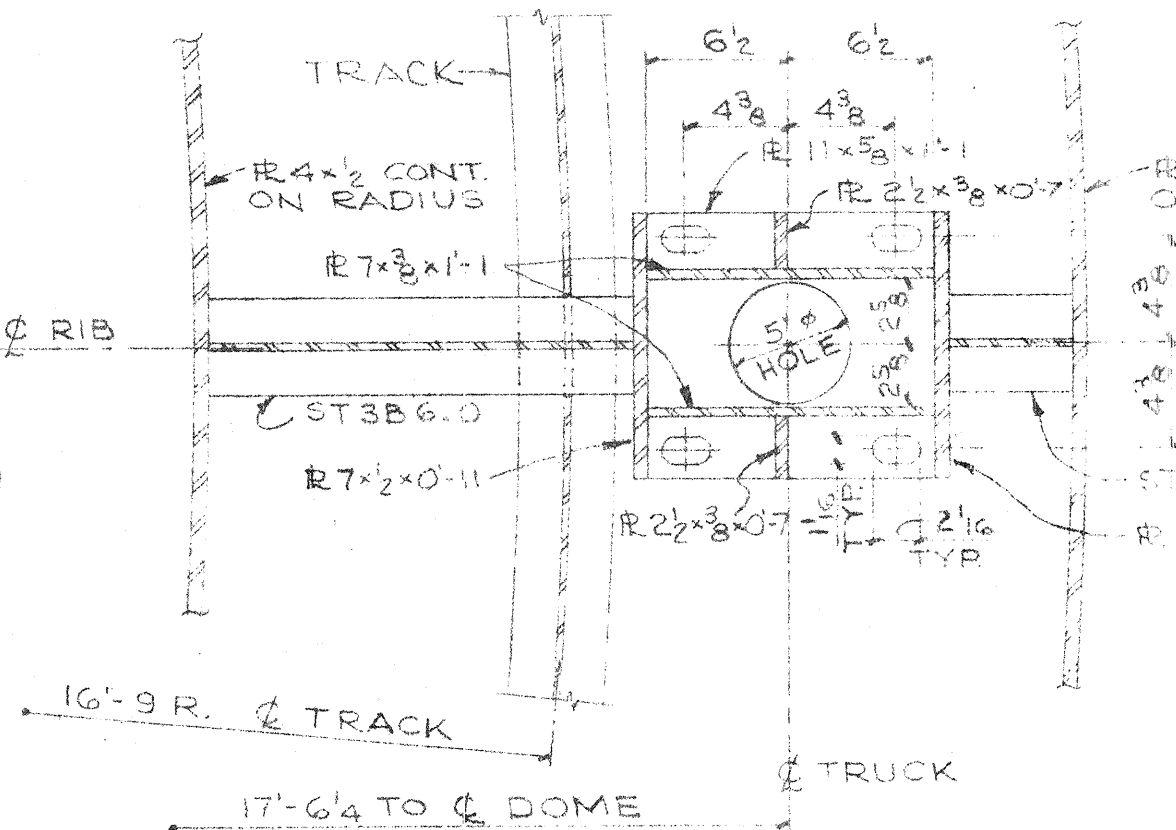
**NOTE 1**  
LOCATION OF RING GIRDER SPLICES & CONTRACTORS OPTION. SEE SECTION M/D3

SEE MECH. DWG. D-25 FOR WINDSCREEN HOIST

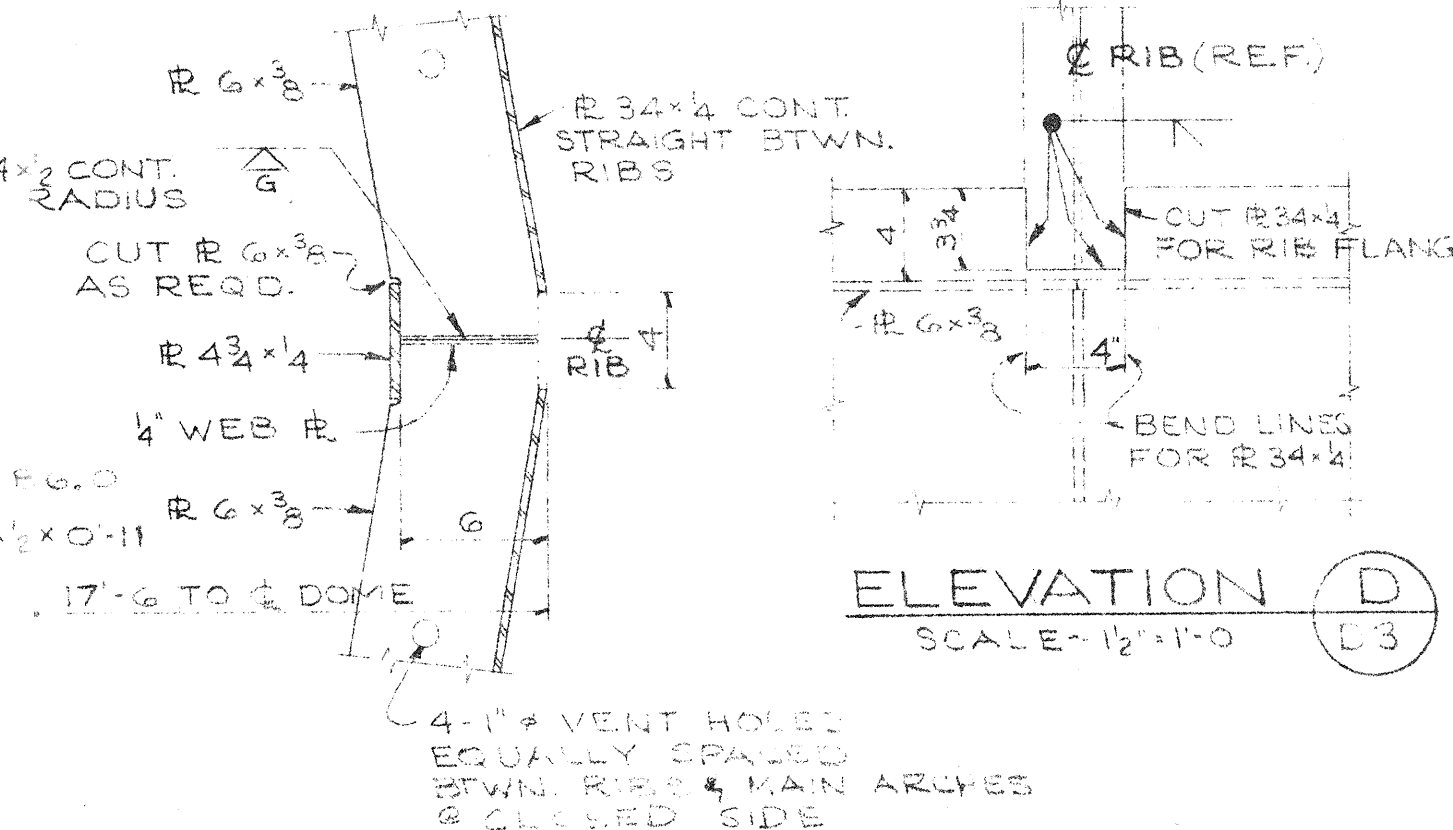
SEE MECH. DWGS. D-21 FOR PLATFORM DRIVE



**PLAN SECTION A**  
SCALE - 1/2" = 1'-0"

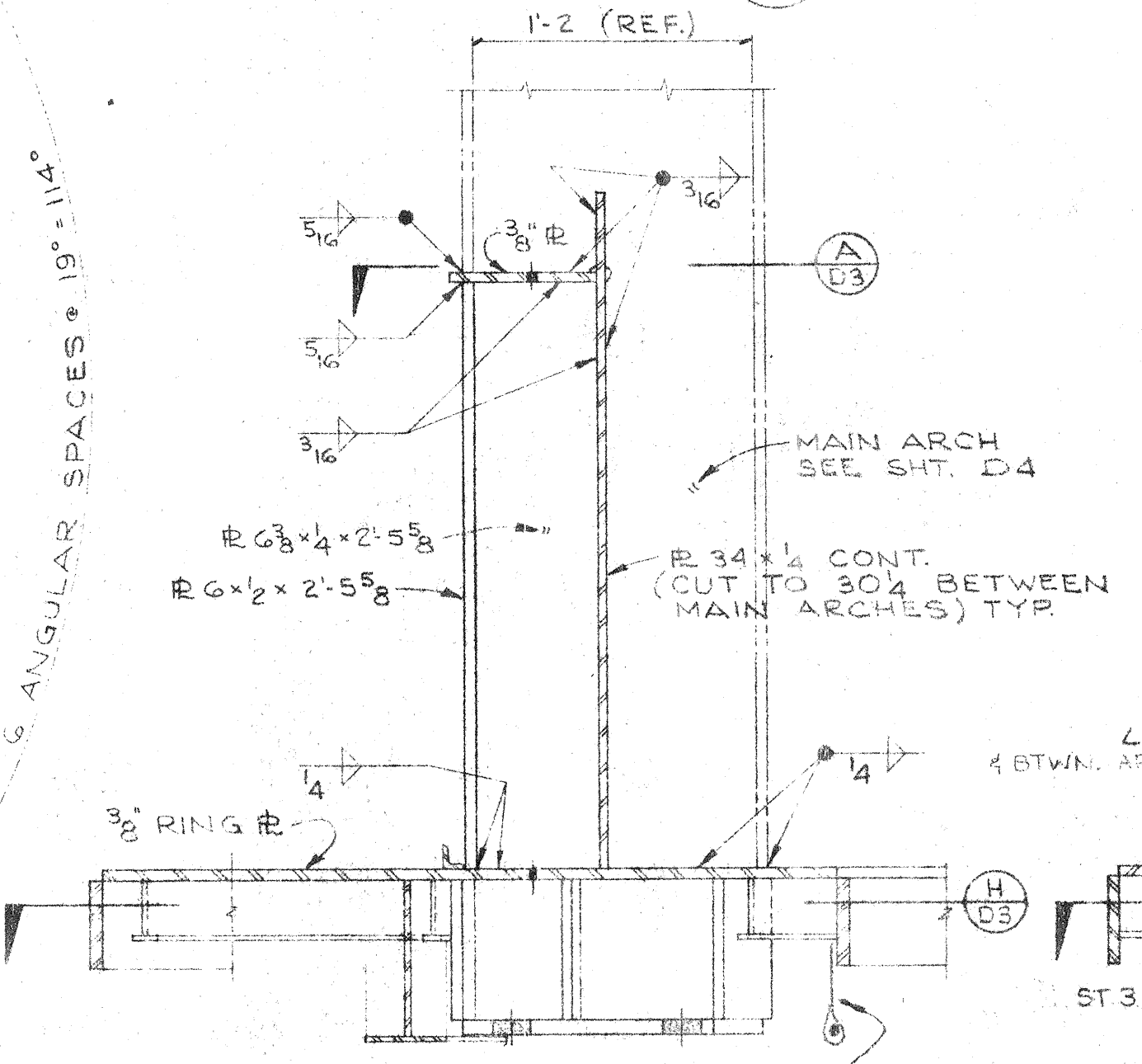


**PLAN SECTION B**  
SCALE - 1/2" = 1'-0"

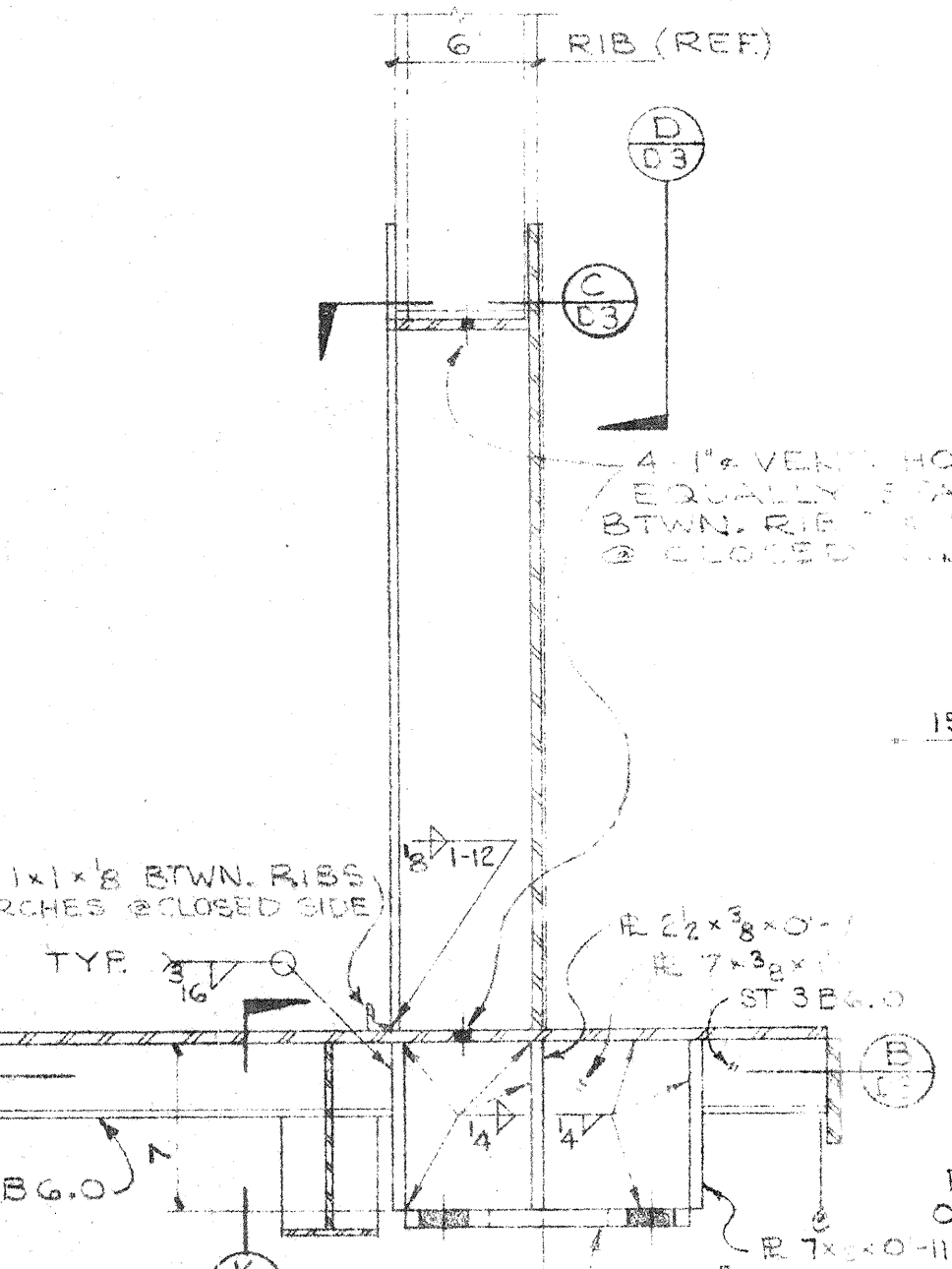


**PLAN SECTION C**  
SCALE - 1/2" = 1'-0"

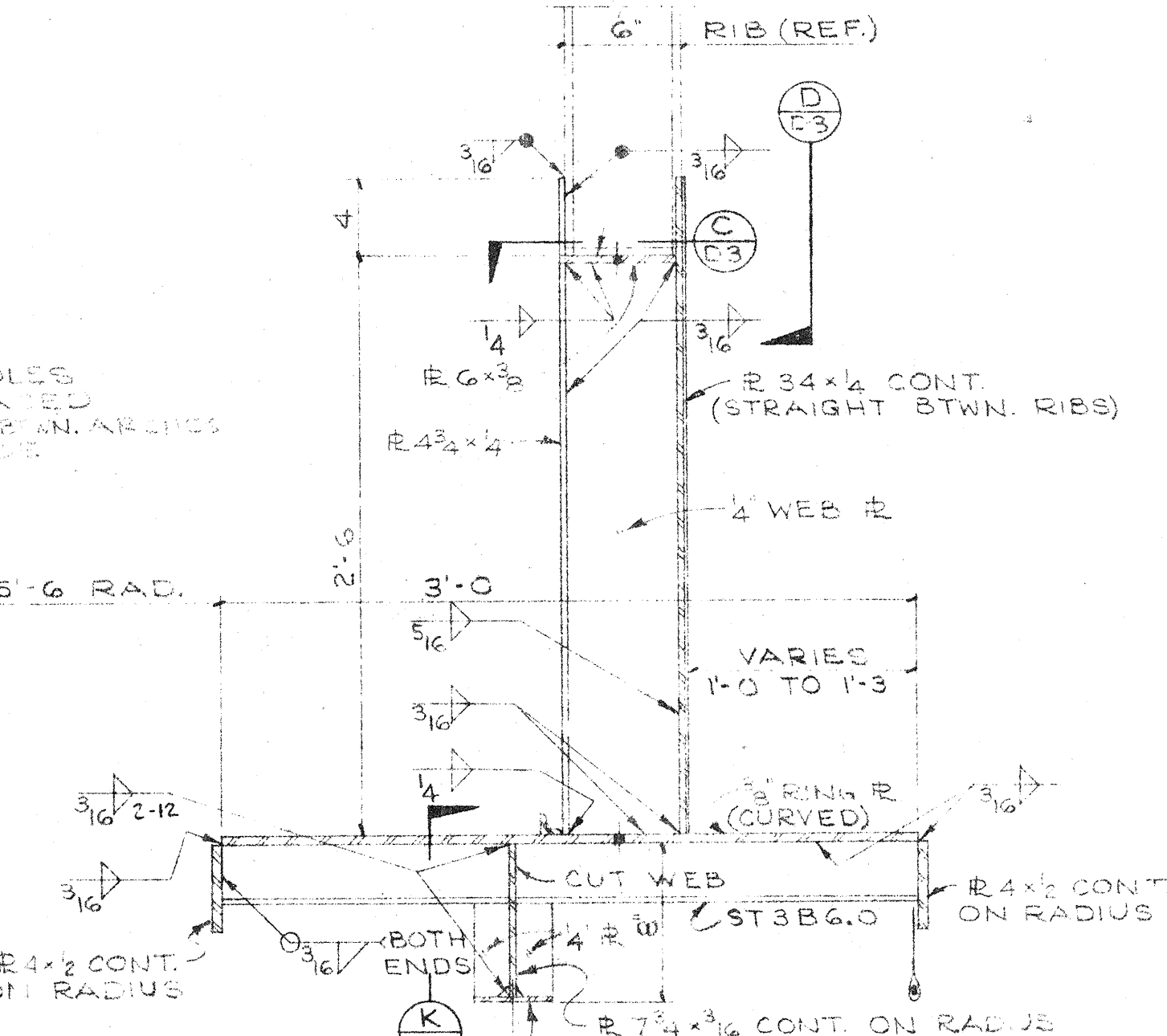
**ELEVATION D**  
SCALE - 1/2" = 1'-0"



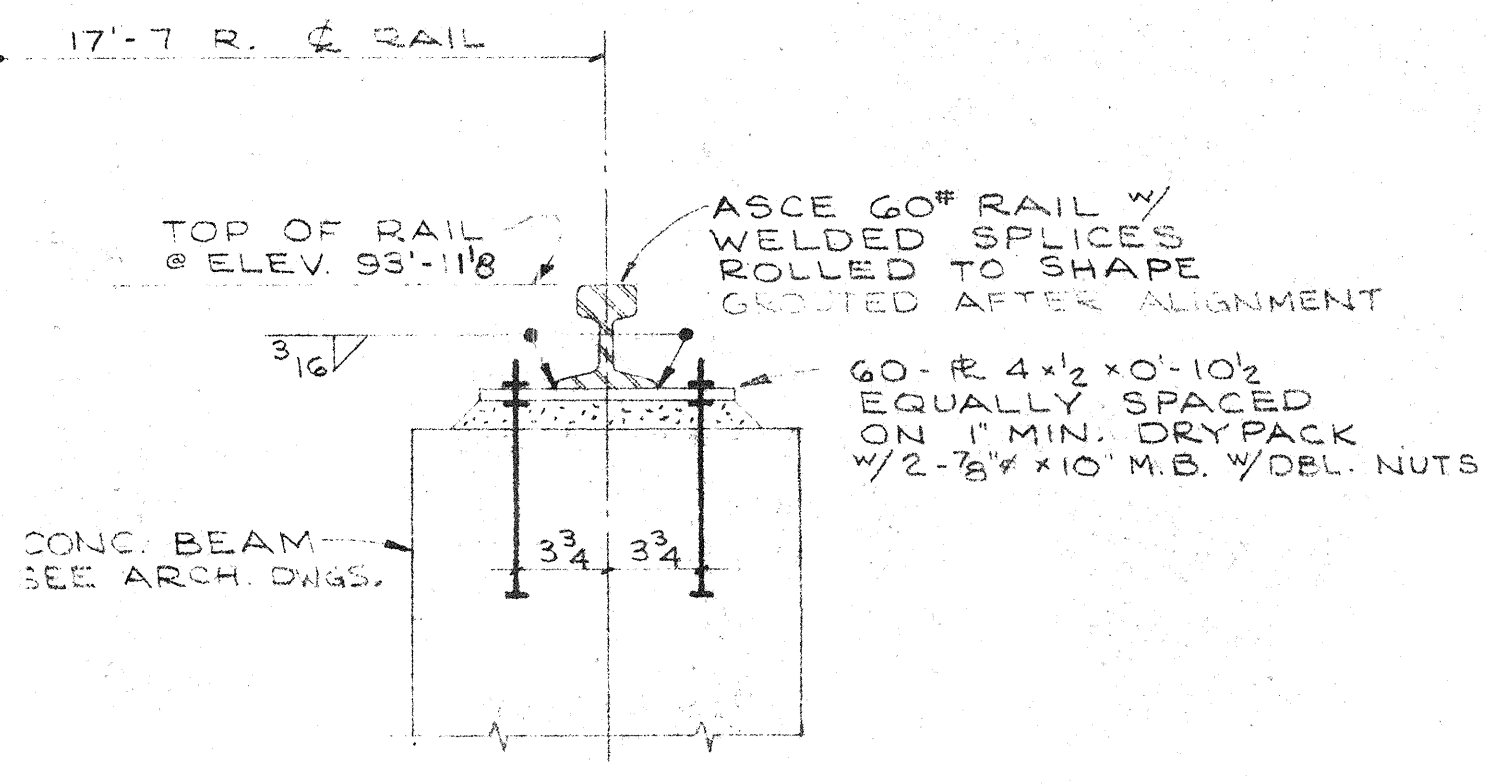
**SECTION E**  
SCALE - 1/2" = 1'-0"



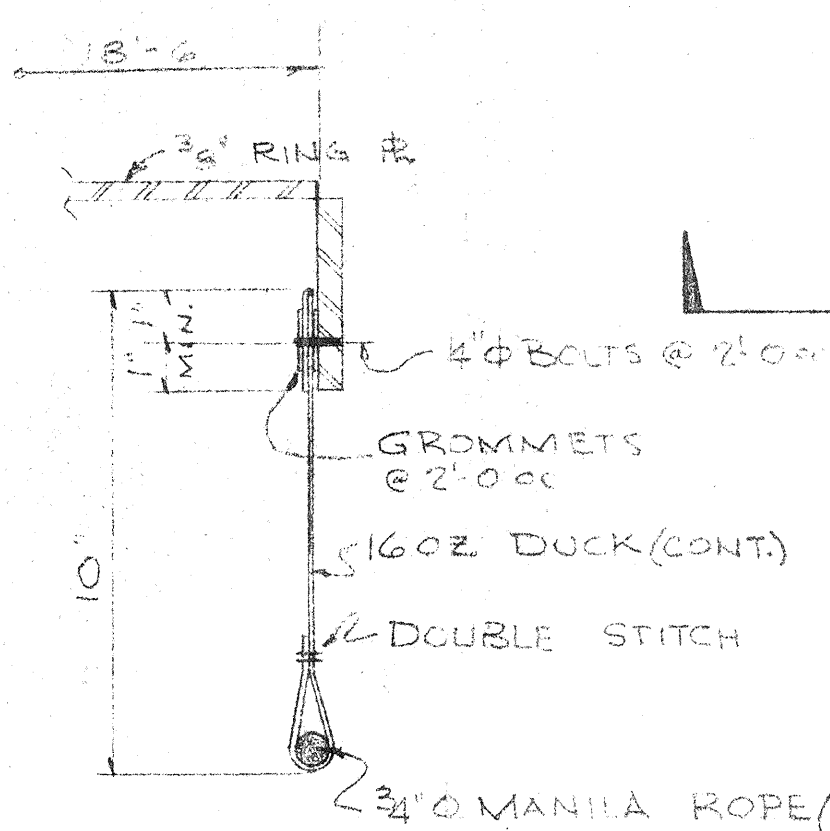
**SECTION F**  
SCALE - 1/2" = 1'-0"



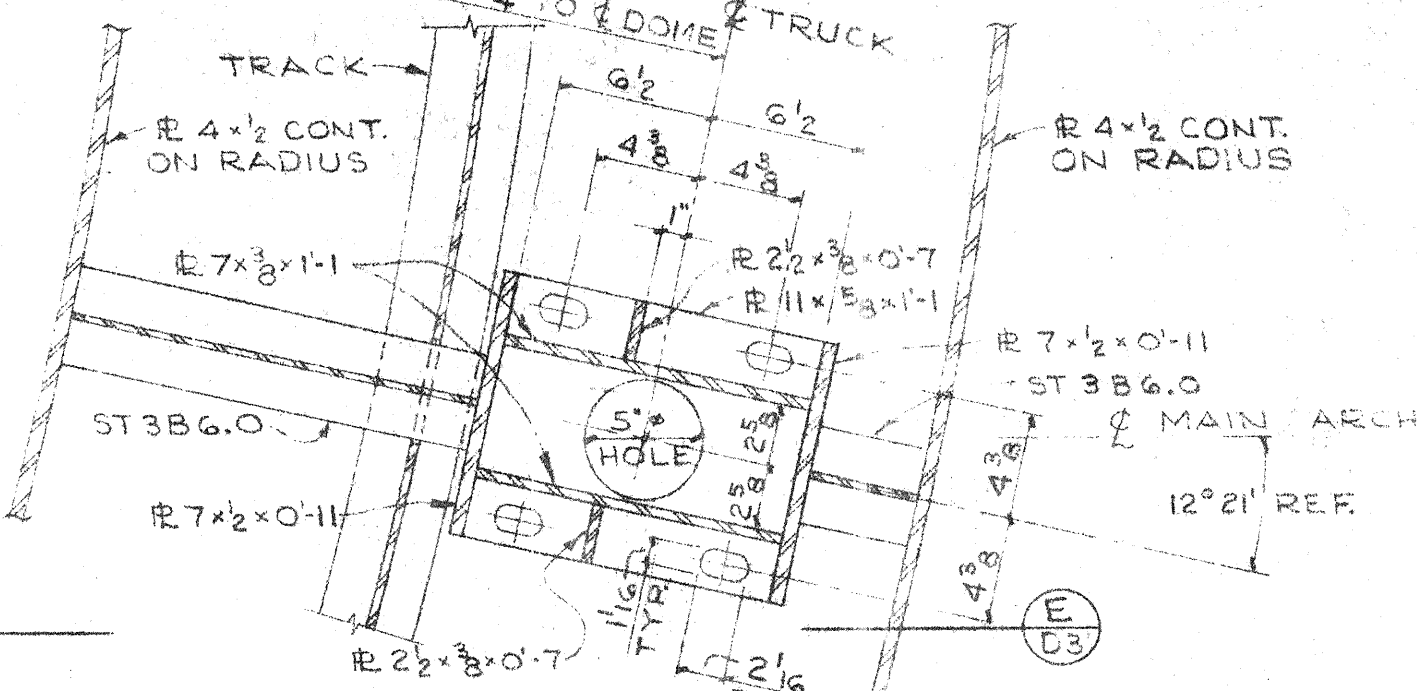
**SECTION G**  
SCALE - 1/2" = 1'-0"



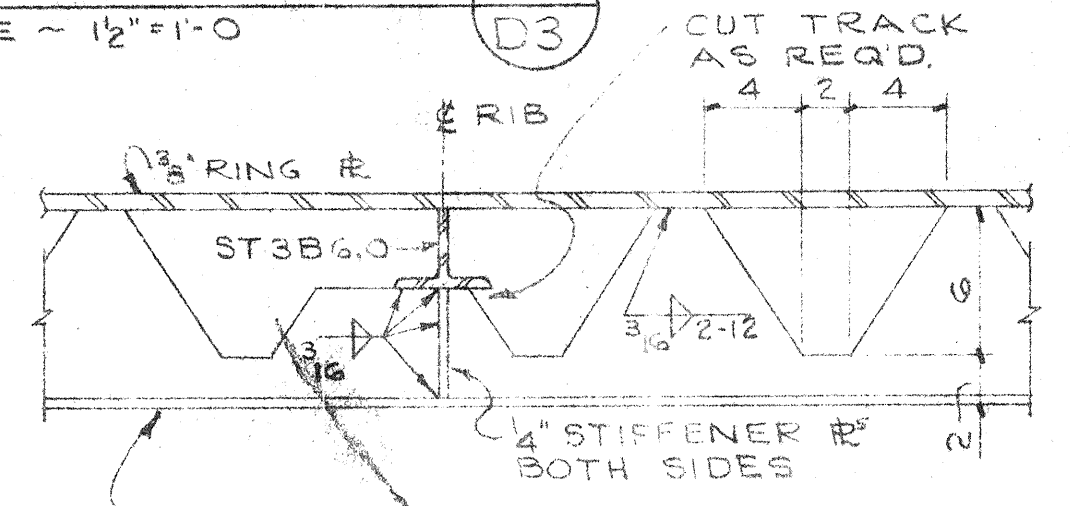
**TYPICAL RAIL DETAIL**  
SCALE - 1/2" = 1'-0"



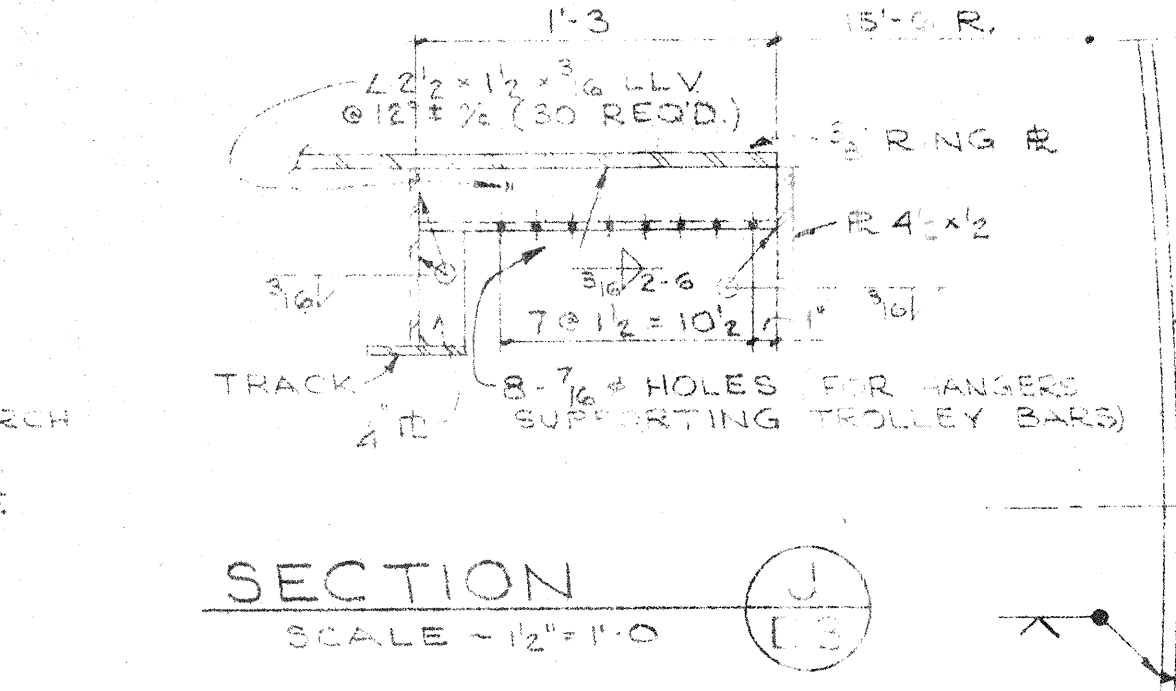
**DETAIL N**  
SCALE - 3/8" = 1'-0"



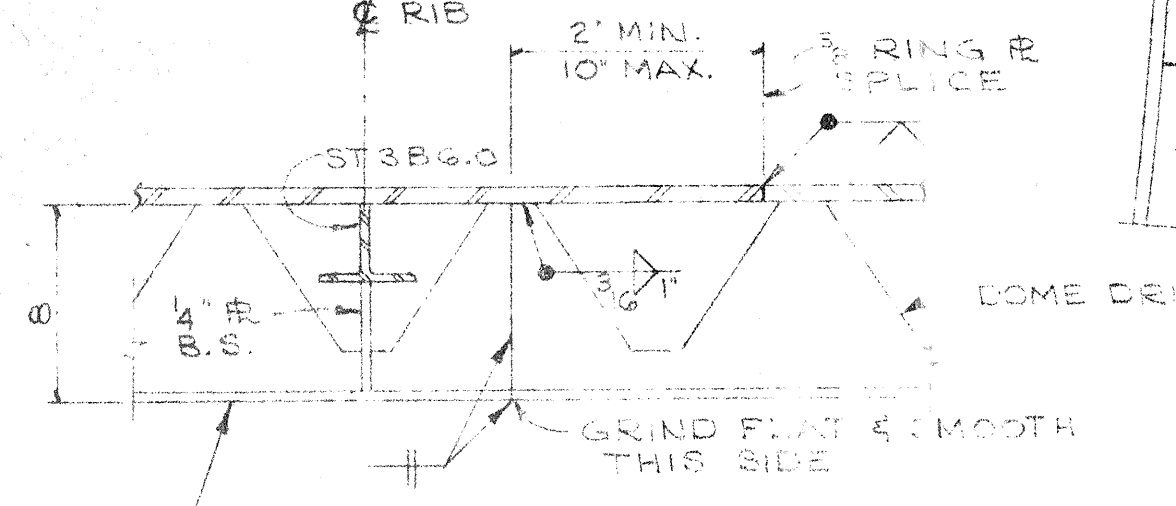
**PLAN SECTION H**  
SCALE - 1/2" = 1'-0"



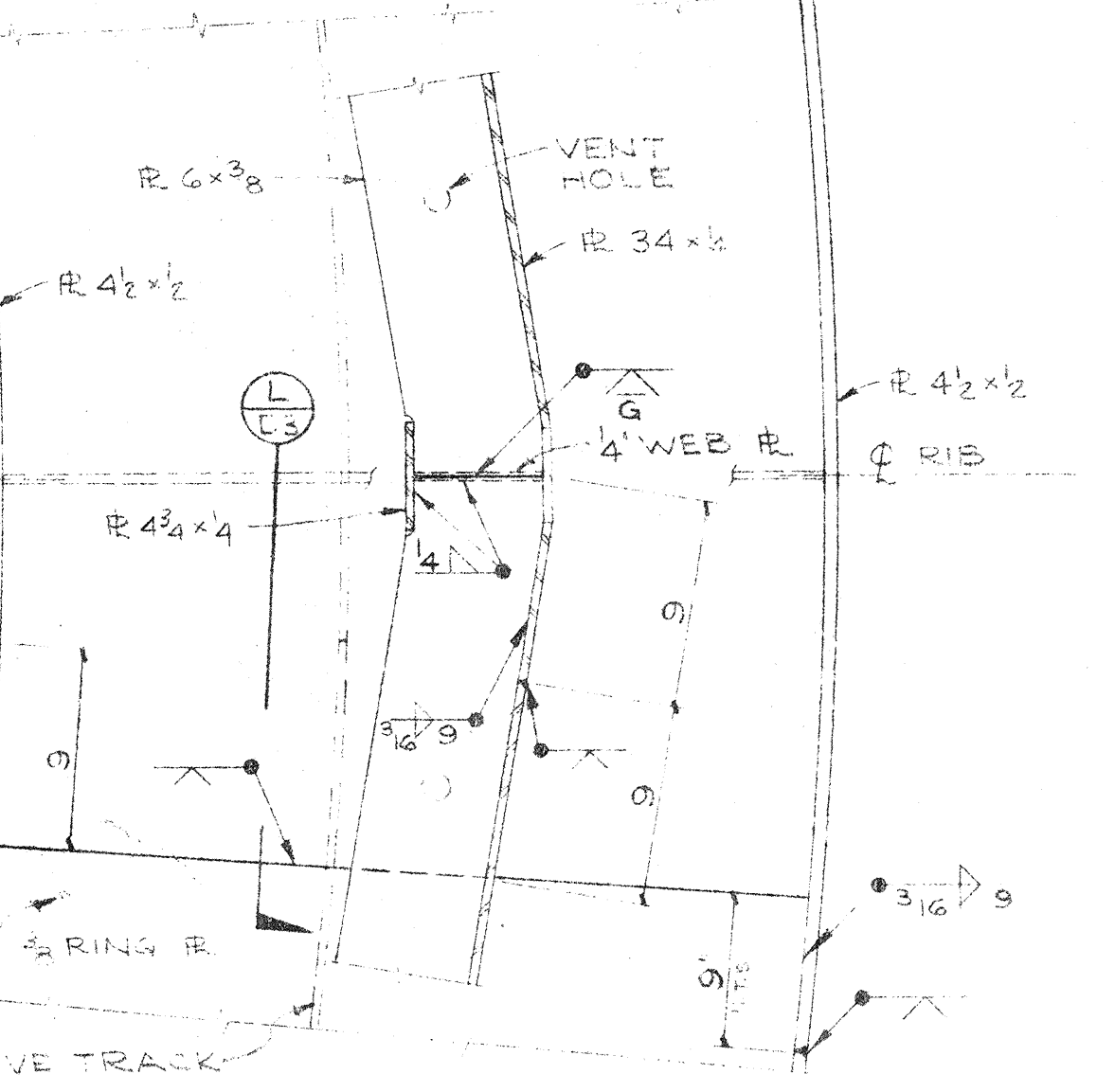
**SECTION K**  
SCALE - 1/2" = 1'-0"



**SECTION J**  
SCALE - 1/2" = 1'-0"

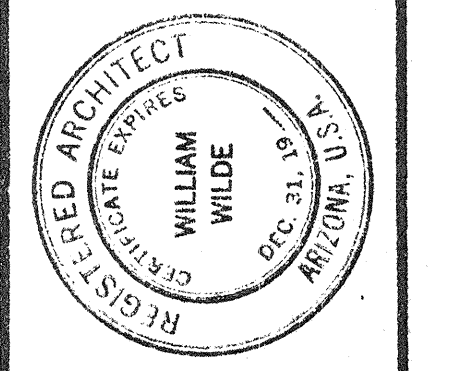
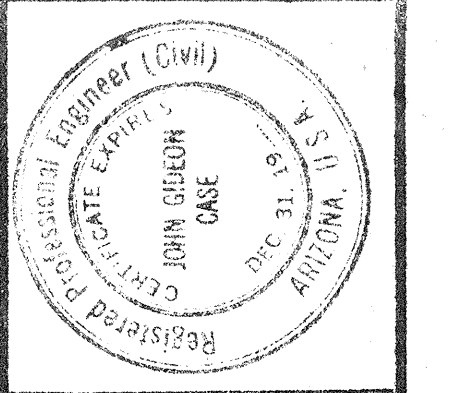


**TYP TRACK SPlice**  
SCALE - 1/2" = 1'-0"



**TYP RING GIRDER SPlice**  
LOCATION OF SPLICES AT CONTRACTOR'S OPTION (NO SPLICES BTWN. ARCHES)

**PLAN SECTION M**  
SCALE - 1/2" = 1'-0"

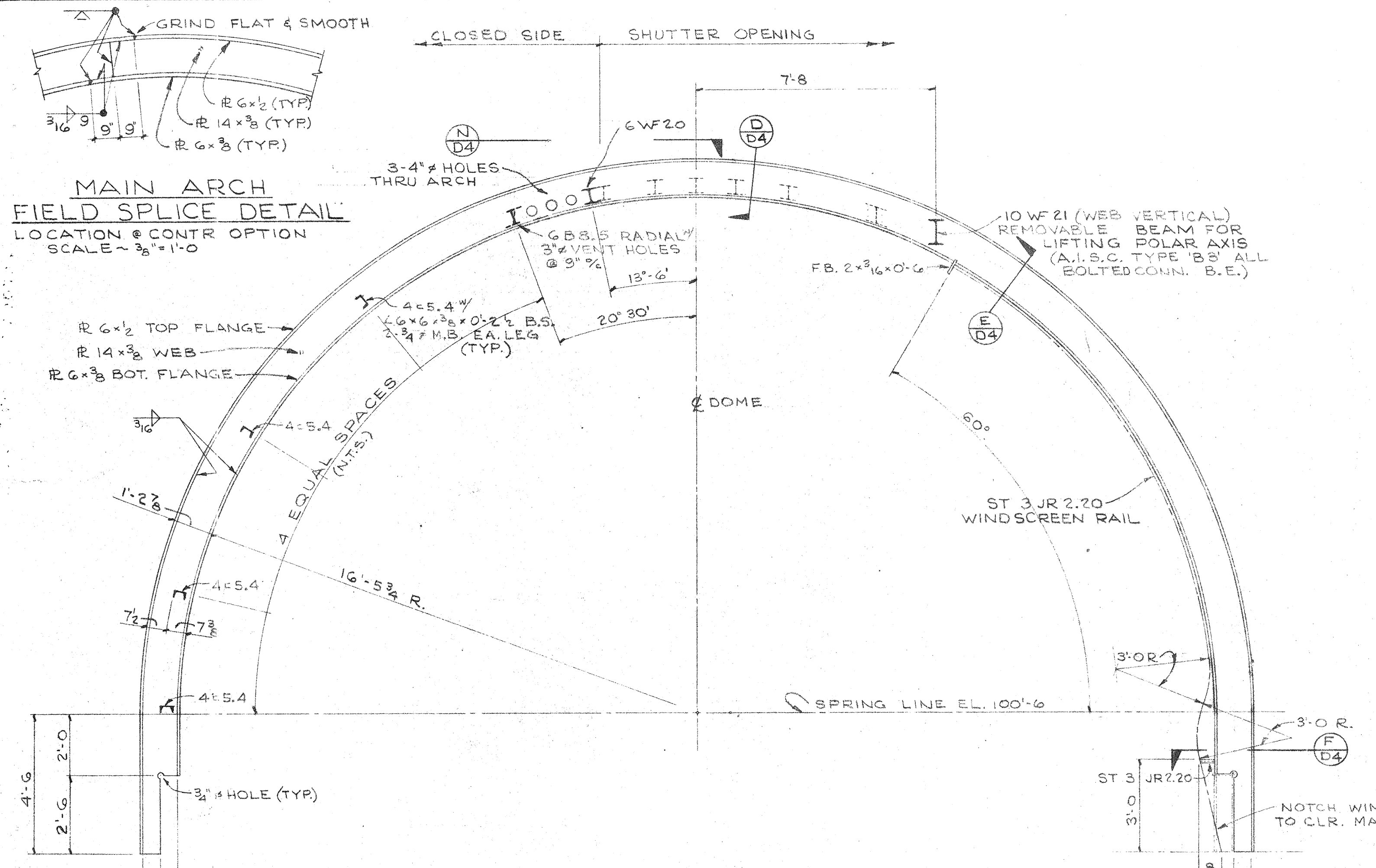


**WILLIAM WILDE ARCHITECT - AIA**  
ARCHITECTURE · INDUSTRIAL DESIGN · SPACE PLANNING  
151 SOUTH TUCSON BOULEVARD · TUCSON, ARIZONA · EA 9-3373

**STEWART OBSERVATORY**  
**UNIVERSITY OF ARIZONA**  
**KITT PEAK**

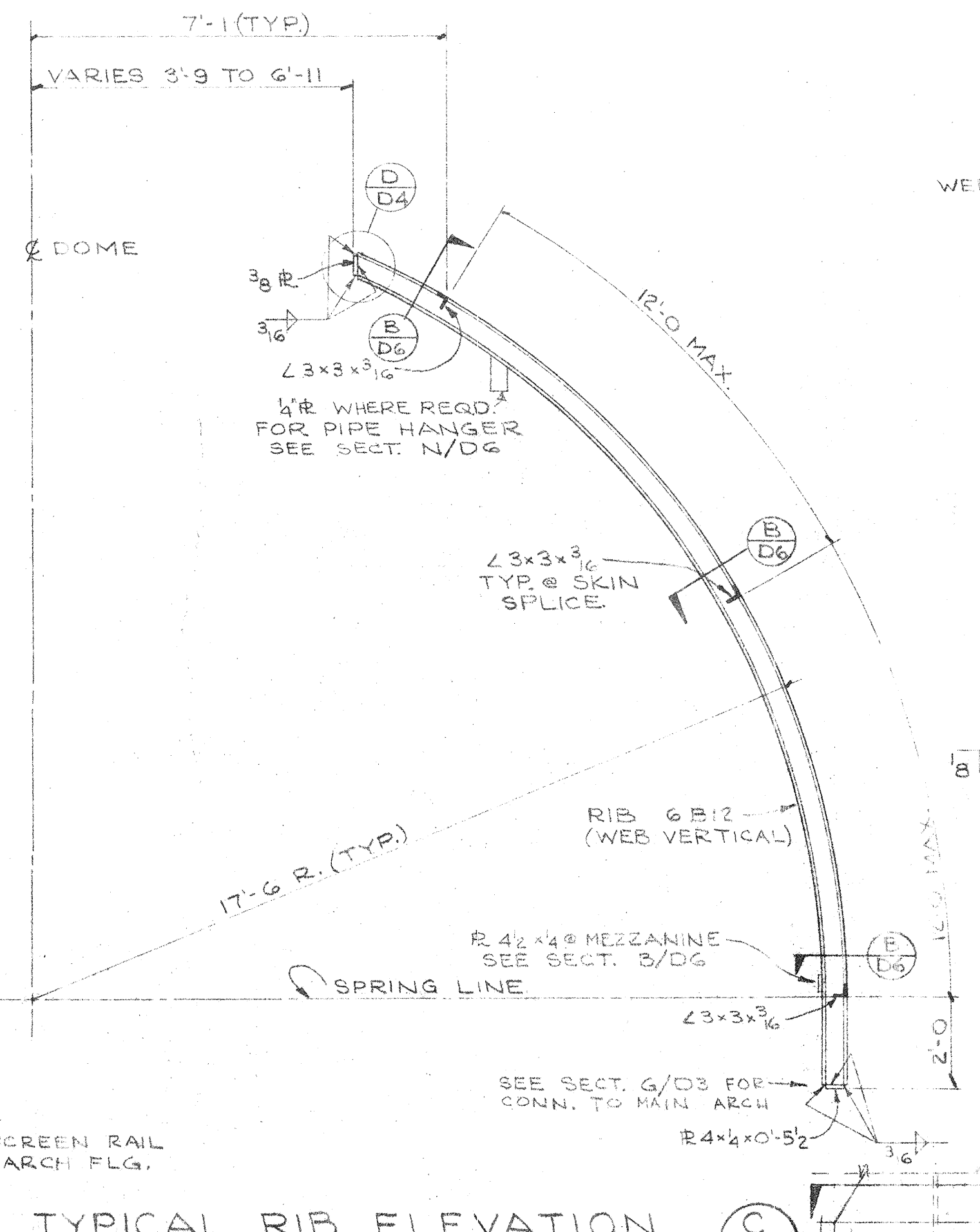
**RING GIRDER PLAN**  
**SECTIONS & DETAILS**

ISSUE DATE: 10-2-61  
COMMISSION: 6-185A  
**D3**



**MAIN ARCH  
FIELD SPLICE DETAIL**  
LOCATION @ CONTR OPTION  
SCALE - 3/8" = 1'-0"

**SECTION A-D4**  
**SECTION B-D4** OPP. HAND  
SCALE - 3/8" = 1'-0"

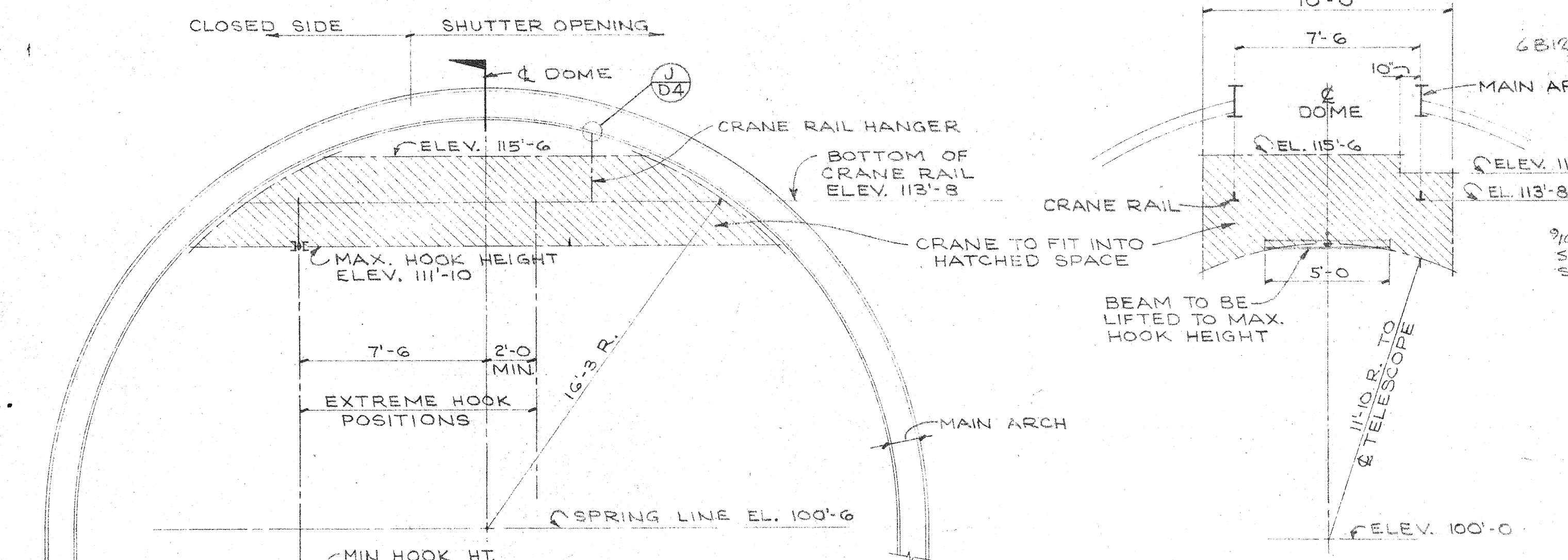


**TYPICAL RIB ELEVATION**  
SCALE - 3/8" = 1'-0"

**SECTION D-D4**  
SCALE - 1/2" = 1'-0"

**SECTION E-D4**  
SCALE - 1/2" = 1'-0"

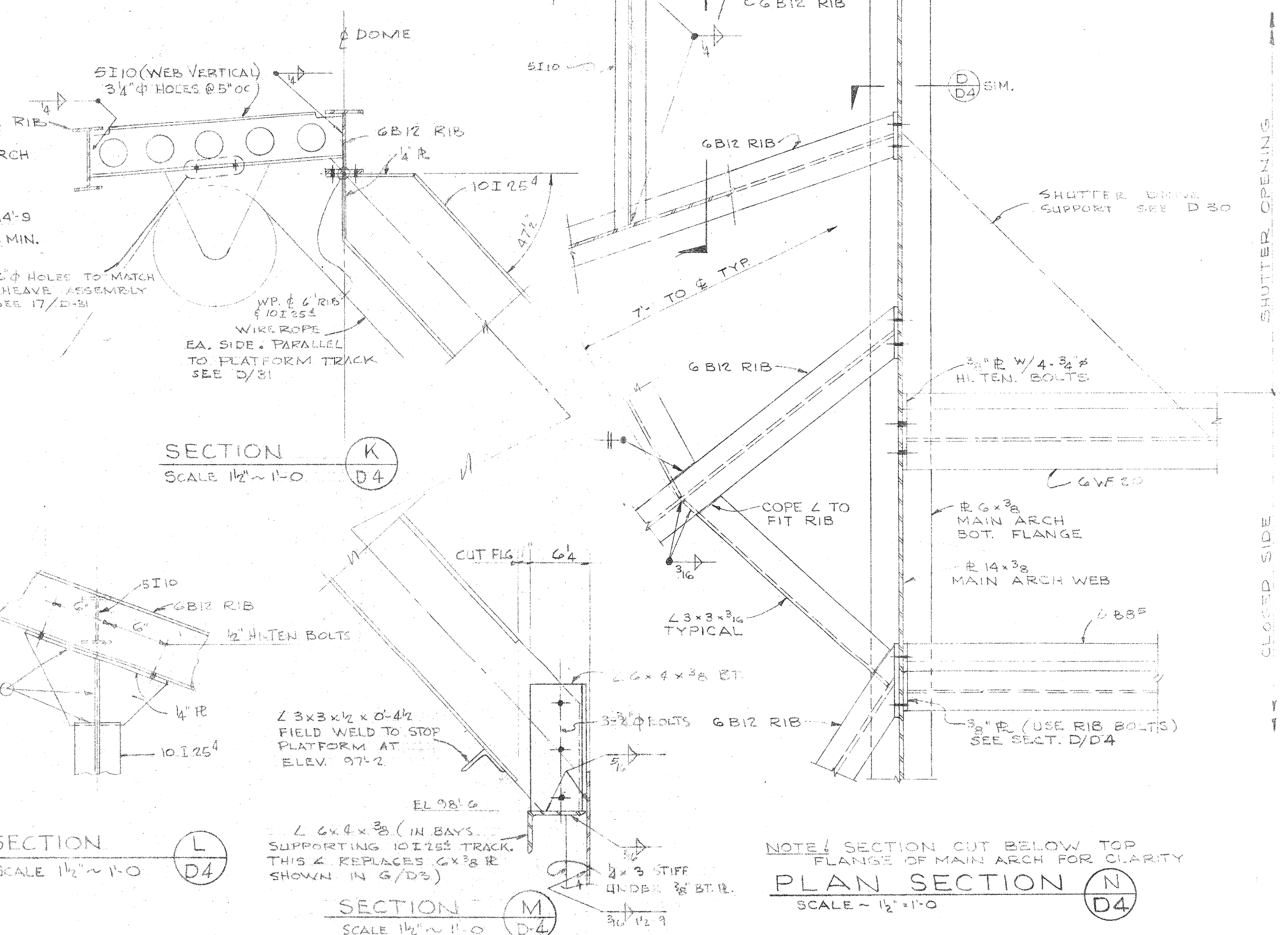
**SECTION F-D4**  
SCALE - 1/2" = 1'-0"



**2-TON CAPACITY  
CRANE DIAGRAM**  
SCALE - 1/4" = 1'-0"

**SECTION H-D4**  
SCALE - 1/4" = 1'-0"

**TYP. CRANE RAIL HANGER  
CONN. TO MAIN ARCH**  
SCALE - 3/8" = 1'-0"



**SECTION K-D4**  
SCALE 1/2" = 1'-0"

**SECTION L-D4**  
SCALE 1/2" = 1'-0"

**SECTION M-D4**  
SCALE 1/2" = 1'-0"

**NOTE: SECTION CUT BELOW TOP  
FLANGE OF MAIN ARCH FOR CLARITY**  
**PLAN SECTION N-D4**  
SCALE - 1/2" = 1'-0"

**STEWART OBSERVATORY  
UNIVERSITY OF ARIZONA  
KITT PEAK**

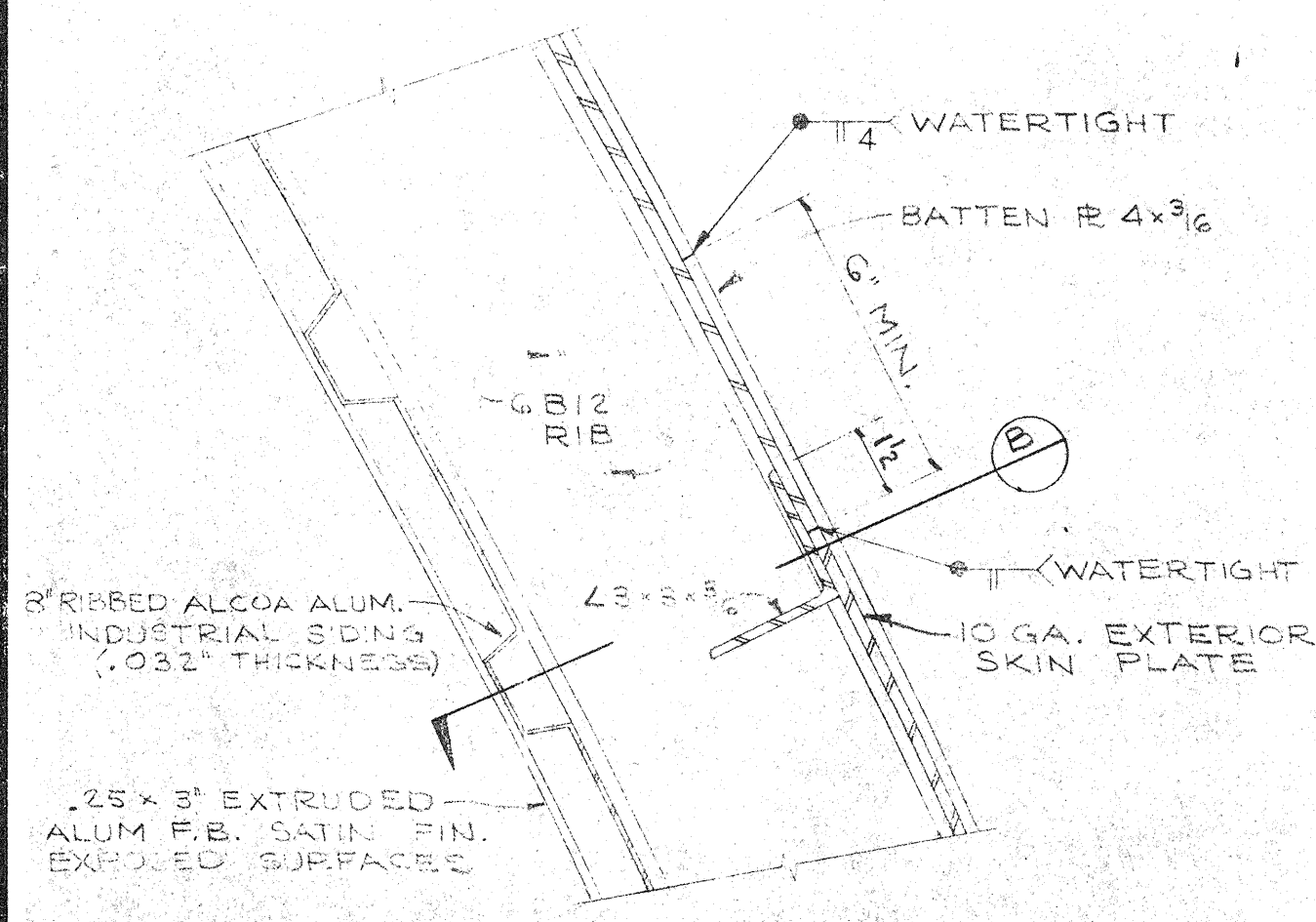
**MAIN ARCH,  
RIB SECTIONS &  
CRANE DIAGRAM**

REGISTERED ARCHITECT  
WILLIAM WILDE  
191 SOUTH TUCSON BOULEVARD, TUCSON, ARIZONA, U.S.A. 85725

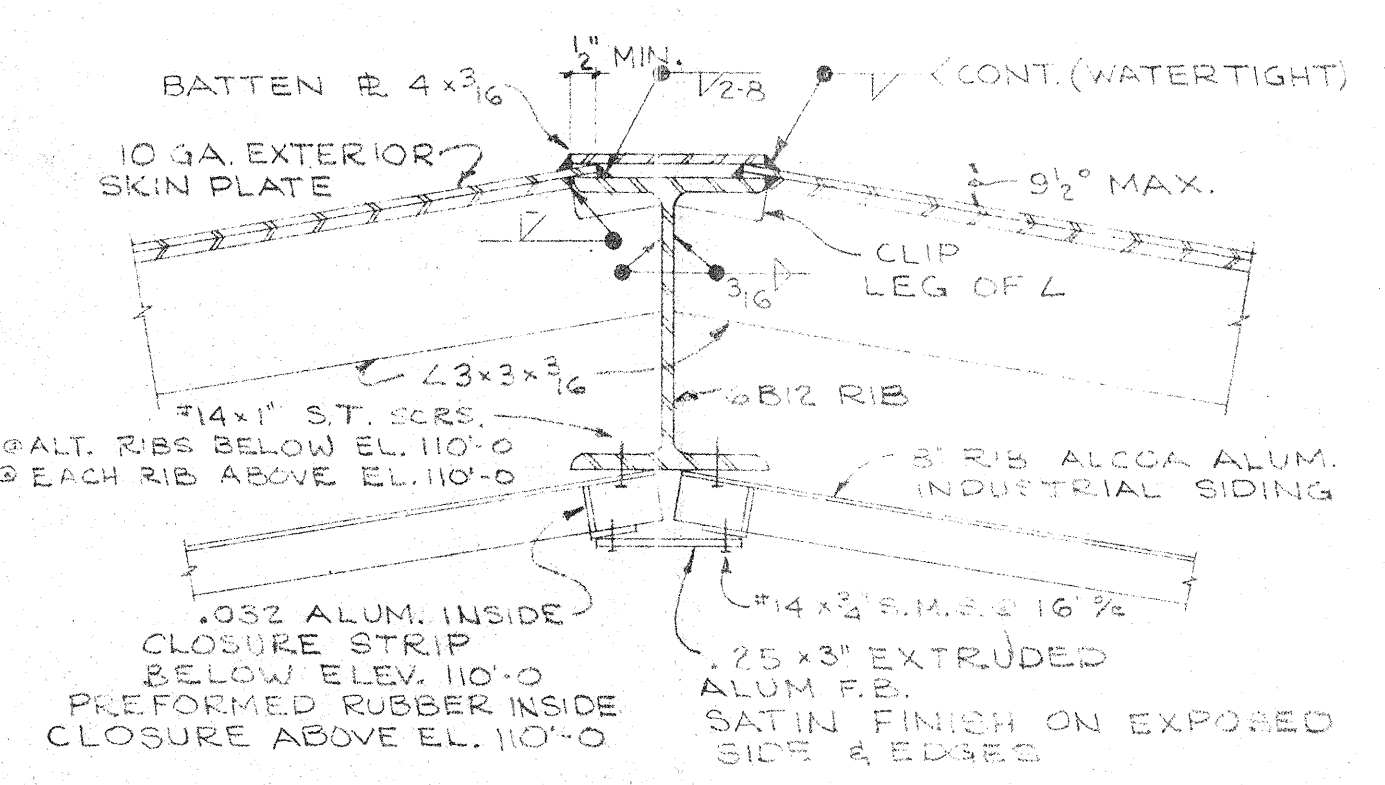
REGISTERED PROFESSIONAL ENGINEER (L.H.W.)  
JOHN GIBSON  
191 SOUTH TUCSON BOULEVARD, TUCSON, ARIZONA, U.S.A. 85725

ISSUE DATE: 10-2-61  
COMMISSION: D4  
6-1839

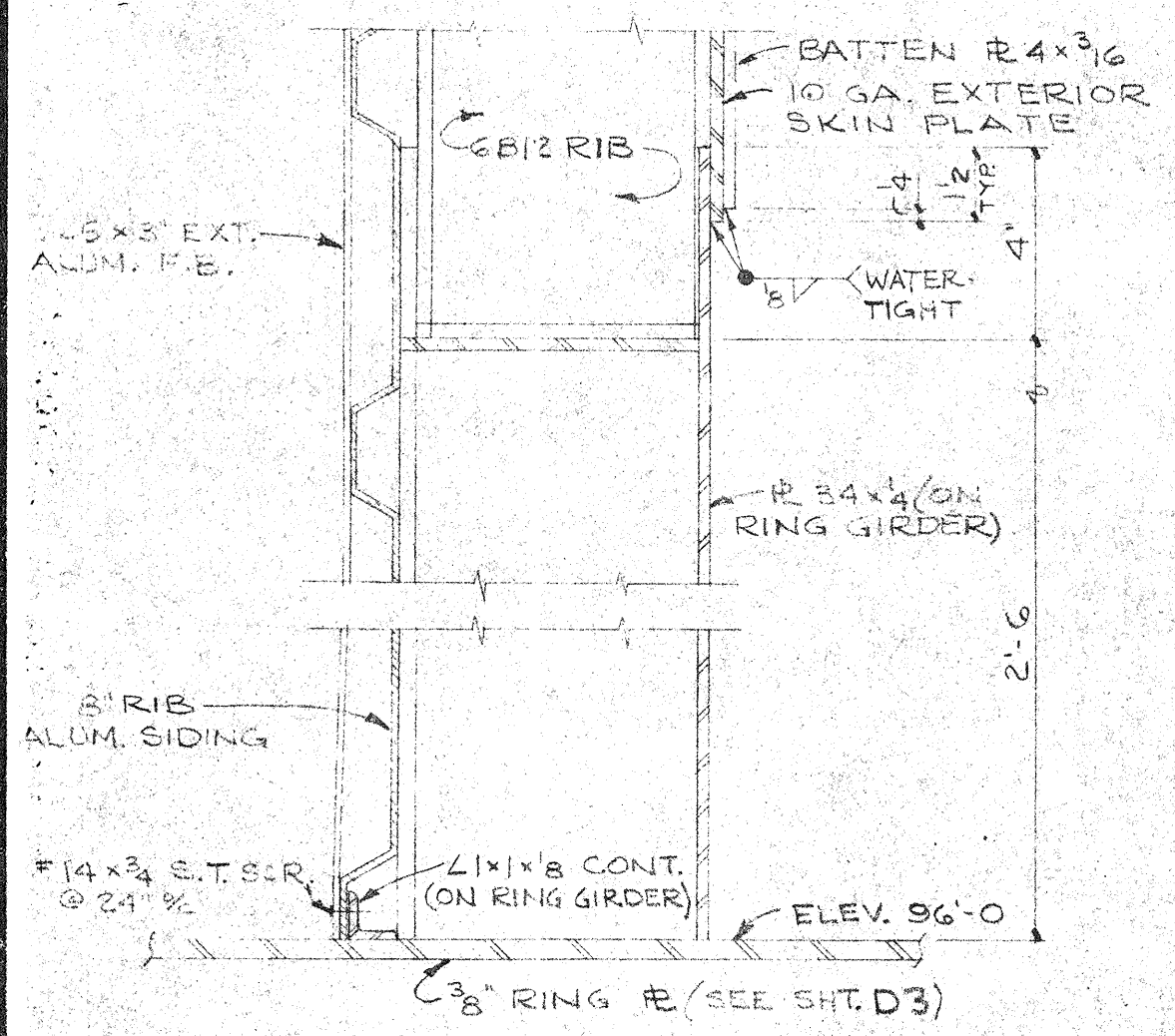




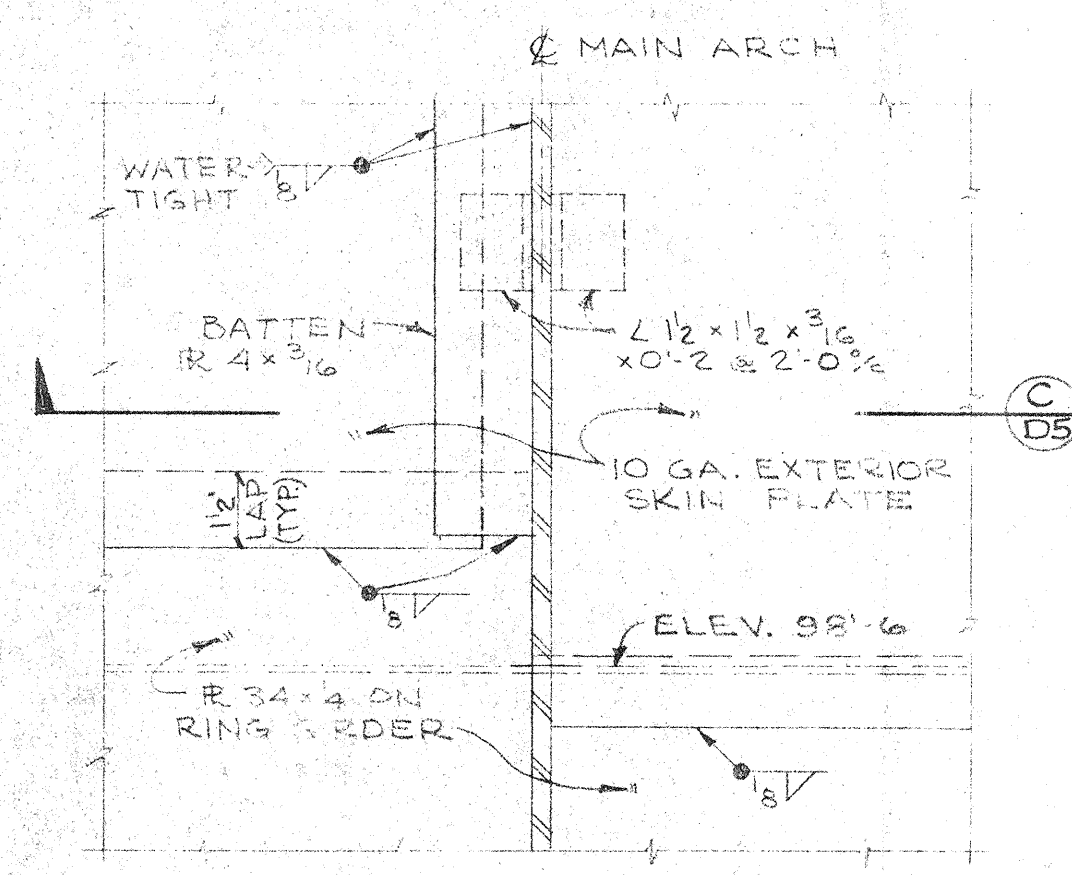
**TYPICAL EXTERIOR SKIN SPLICE SECTION**  
SCALE ~ 3"=1'-0"  
D5



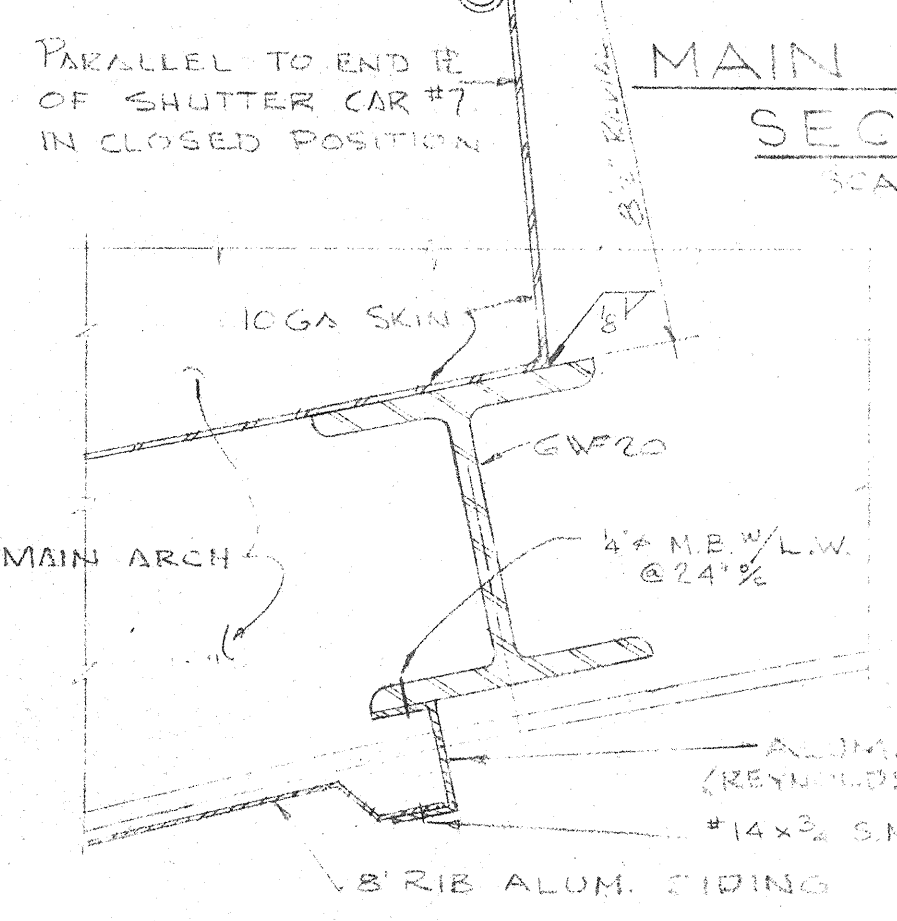
**TYPICAL RIB CONNECTION SECTION**  
SCALE ~ 3"=1'-0"  
D5



**RING GIRDER CONN. SECTION**  
SCALE ~ 3"=1'-0"  
D5

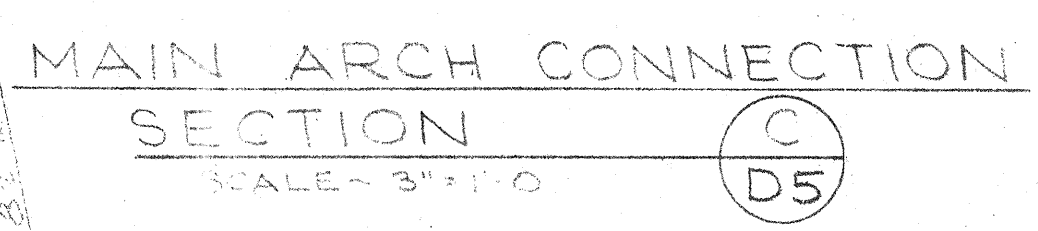


**MAIN ARCH @ RING GIRDER CONN. ELEVATION**  
SCALE ~ 3"=1'-0"  
D5

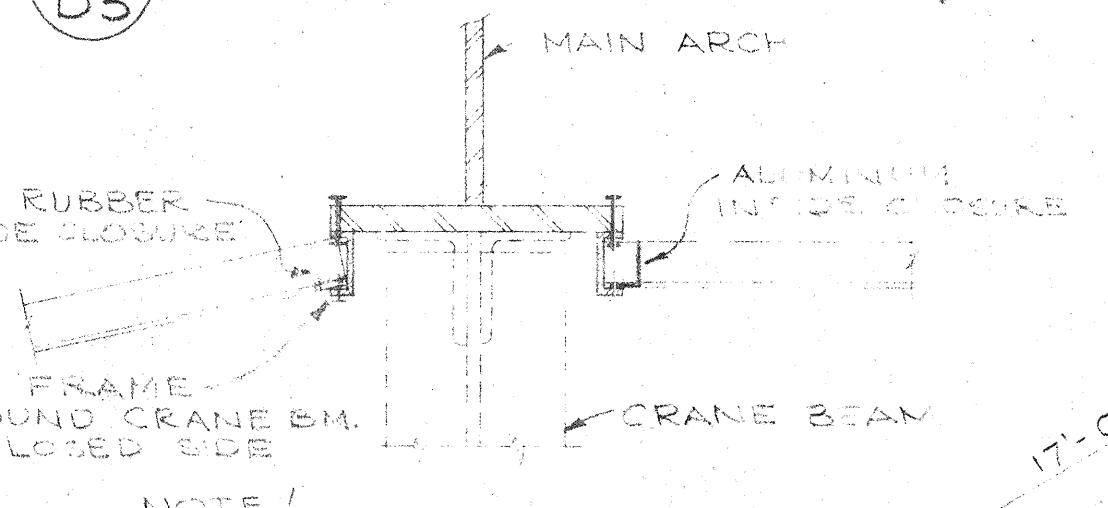


**SECTION**  
SCALE ~ 3"=1'-0"  
D5

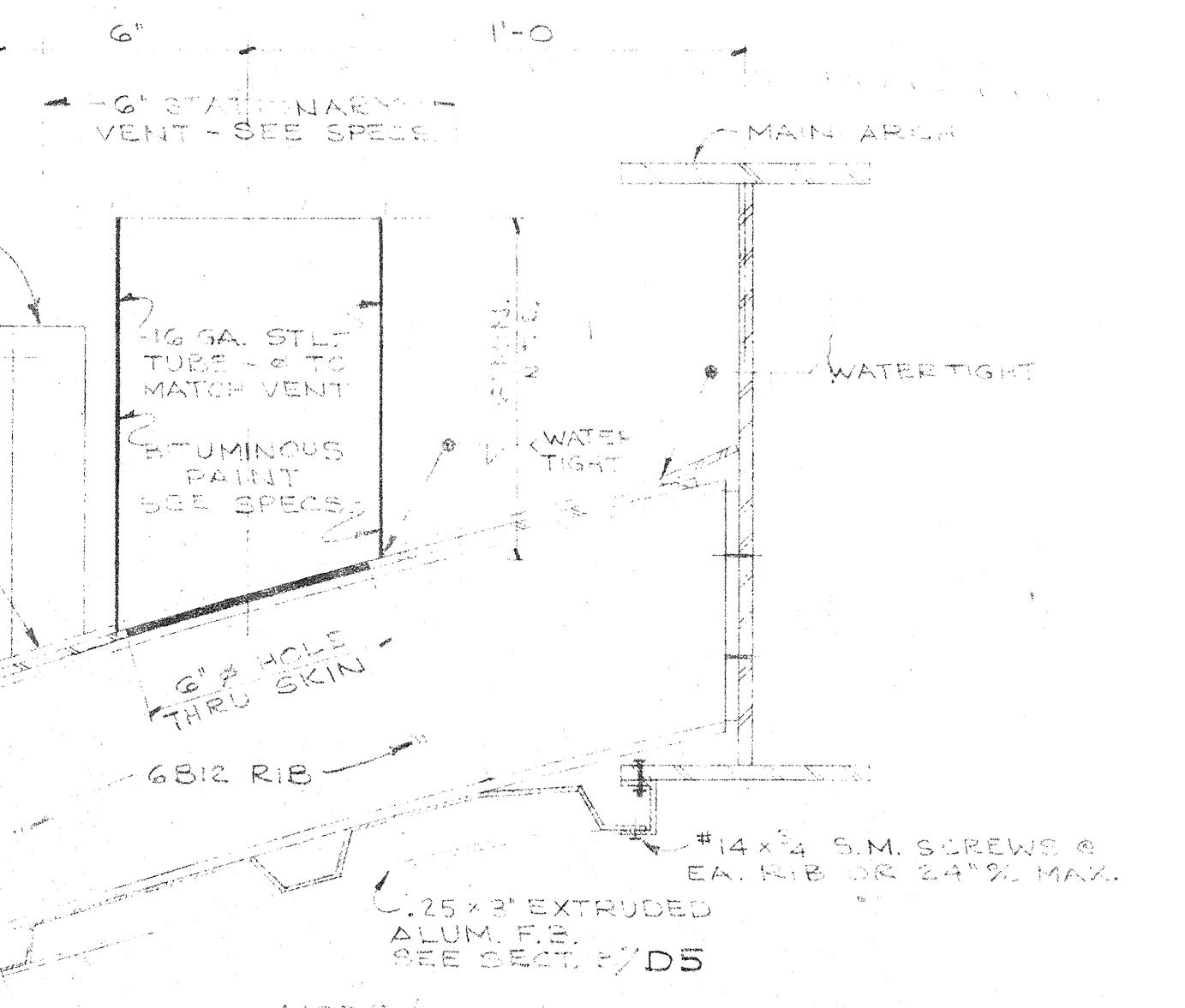
**GENERAL NOTE:** ALL EXPOSED SCREW HEADS CONNECTING ALUMINUM SIDING OR BATTENS SHALL BE "PHILLIPS" RECESSED TYPE - S, CADMIUM PLATED



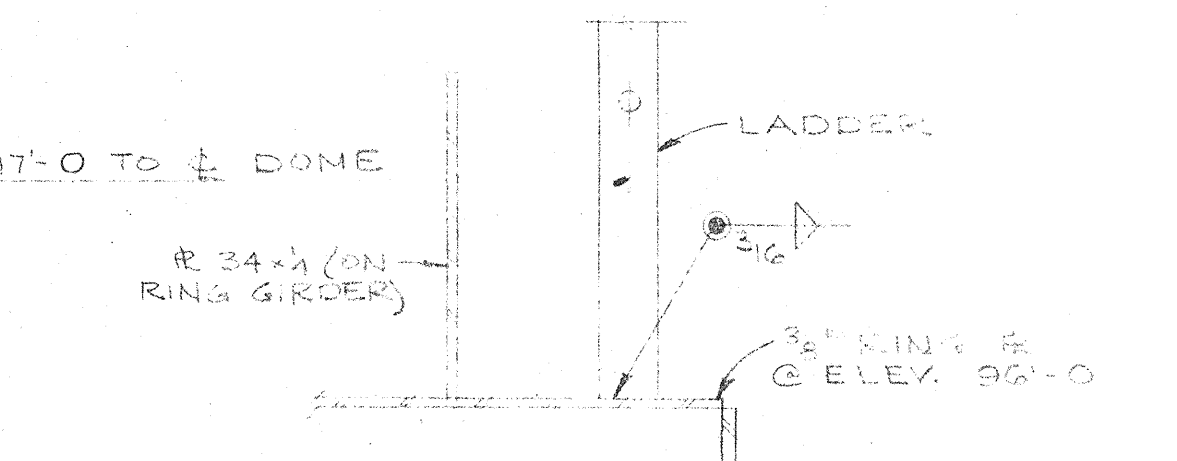
**MAIN ARCH CONNECTION SECTION**  
SCALE ~ 3"=1'-0"  
D5



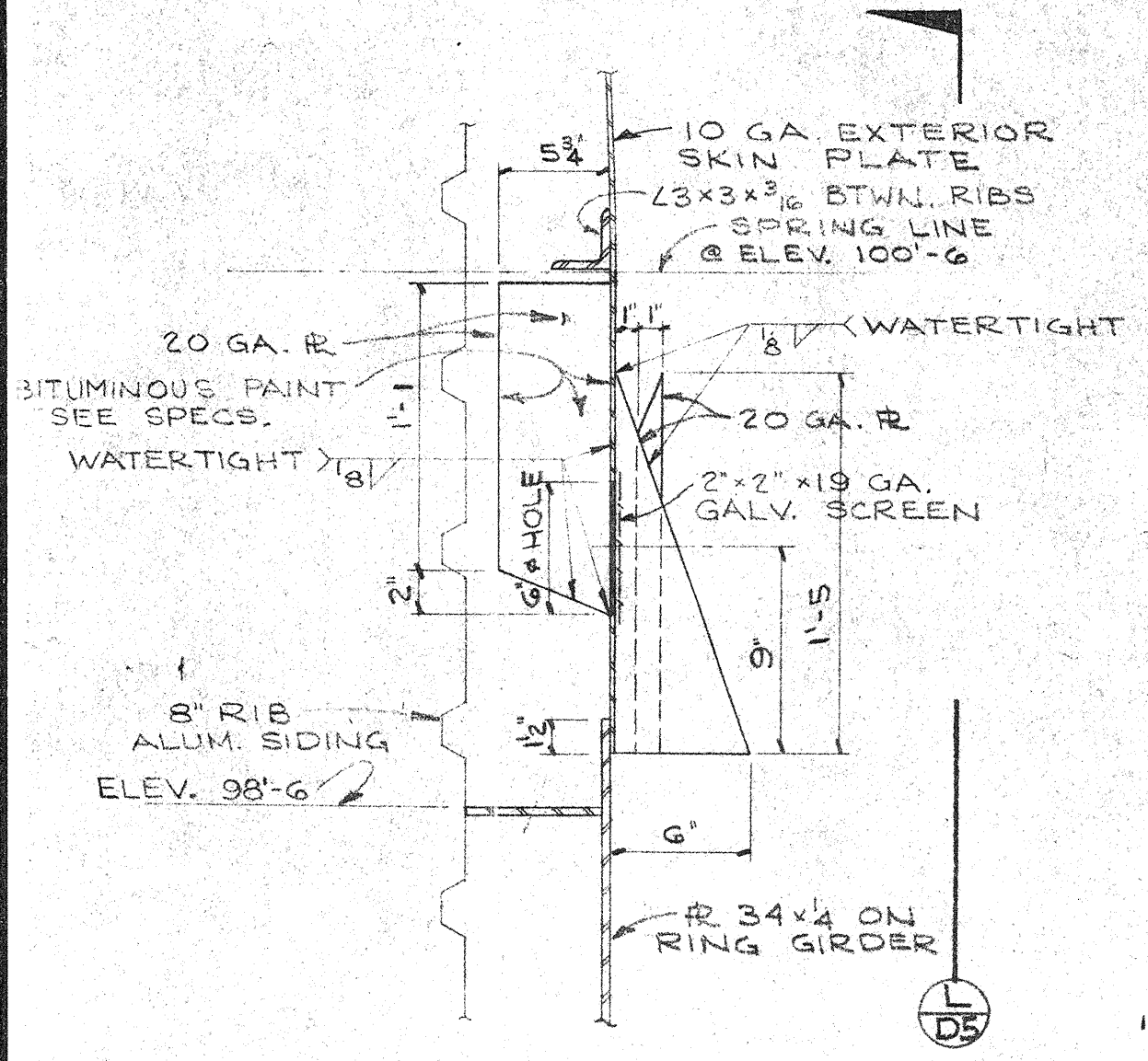
**MAIN ARCH CONN. @ CRANE BEAM SECTION**  
SCALE ~ 3"=1'-0"  
D5



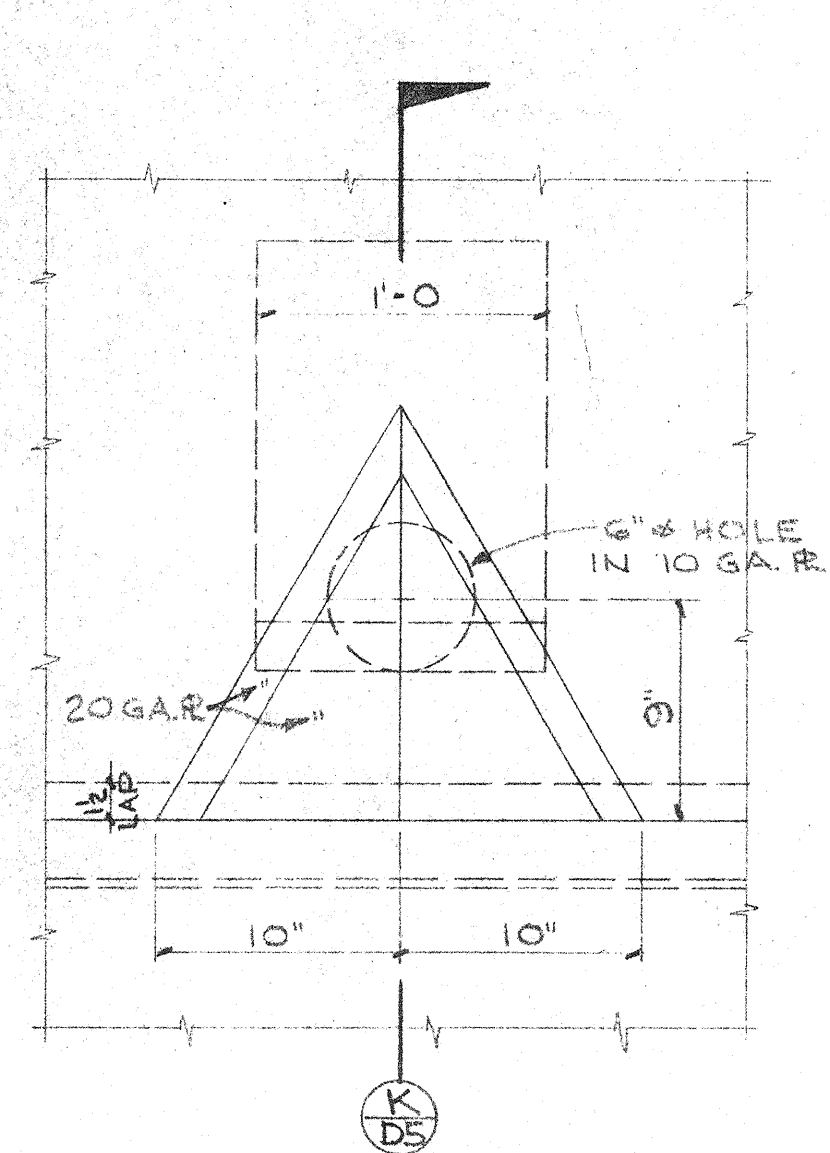
**MAIN ARCH CONN. @ RIB SECTION**  
SCALE ~ 3"=1'-0"  
D5



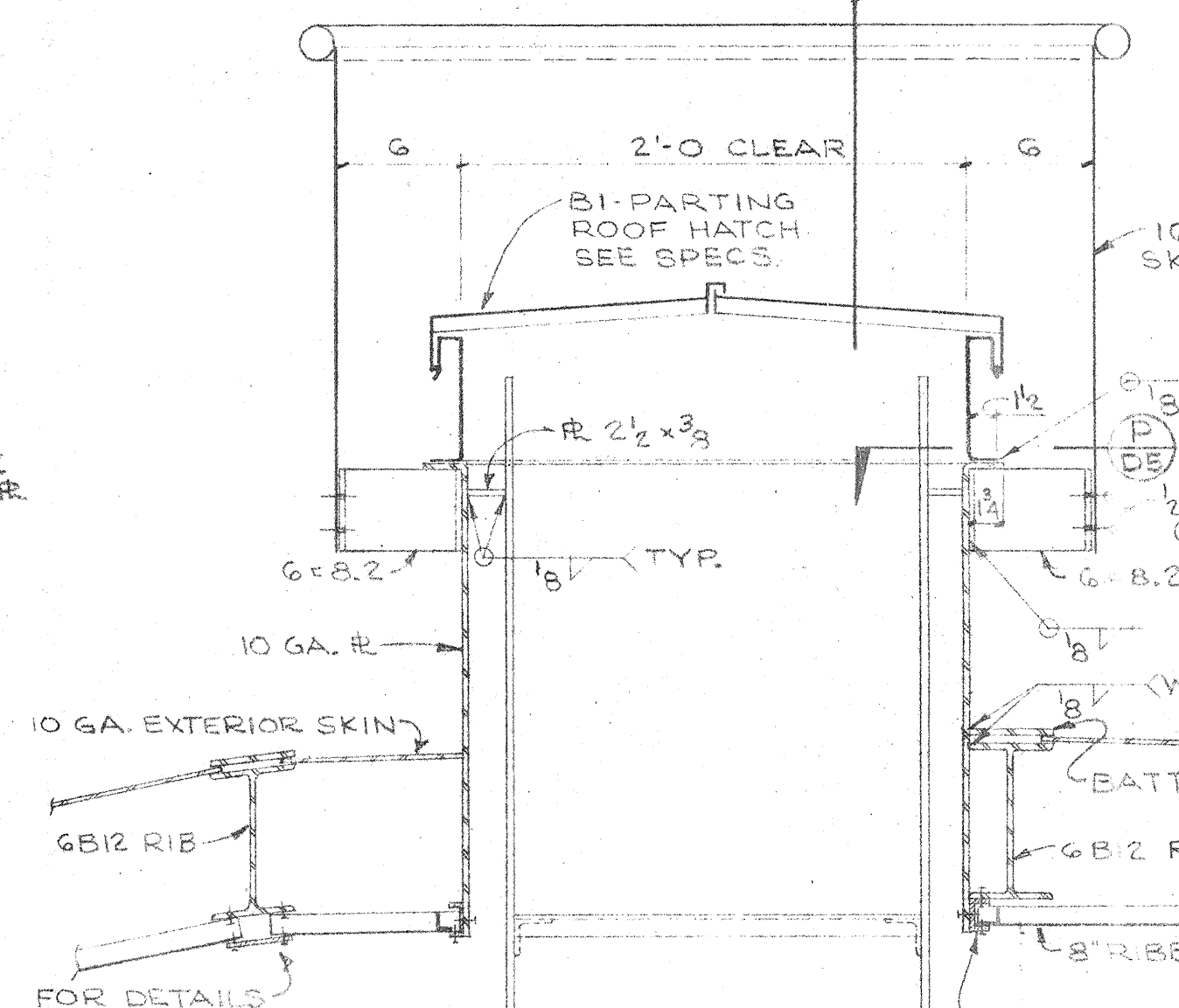
**LADDER CONNECTIONS ELEVATION**  
SCALE ~ 1/2"=1'-0"  
D5



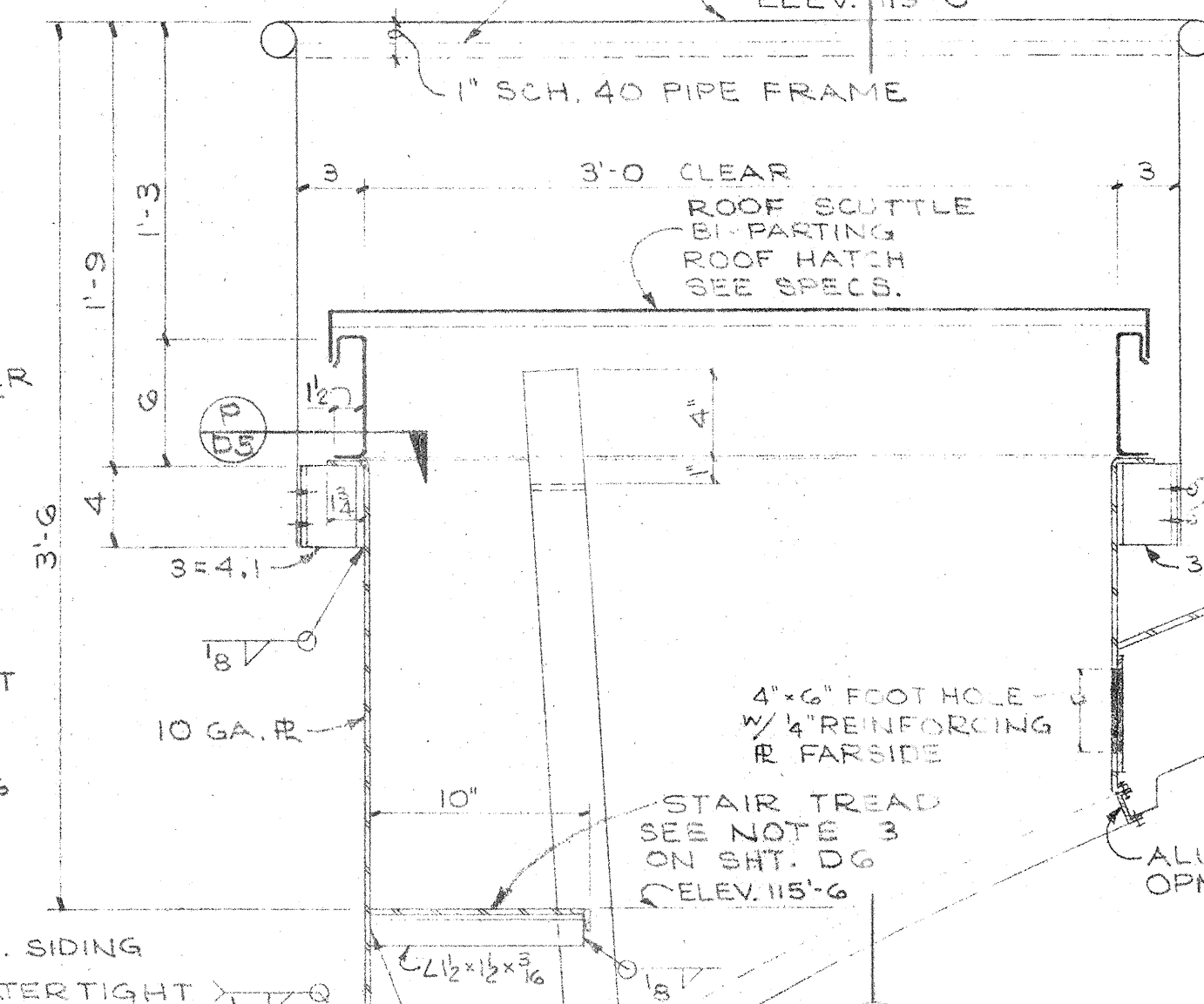
**SECTION**  
SCALE ~ 1/2"=1'-0"  
D5



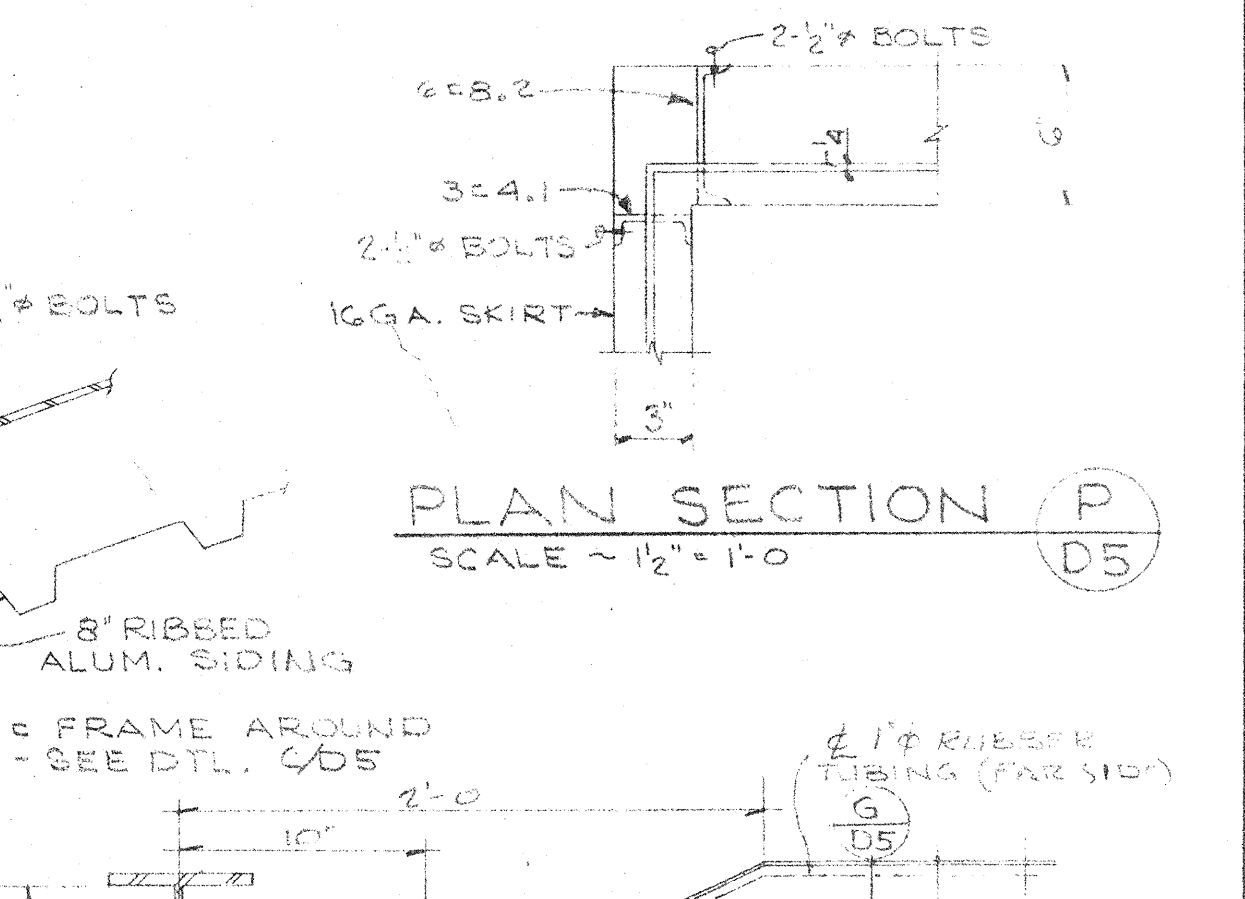
**ELEVATION**  
SCALE ~ 1/2"=1'-0"  
D5



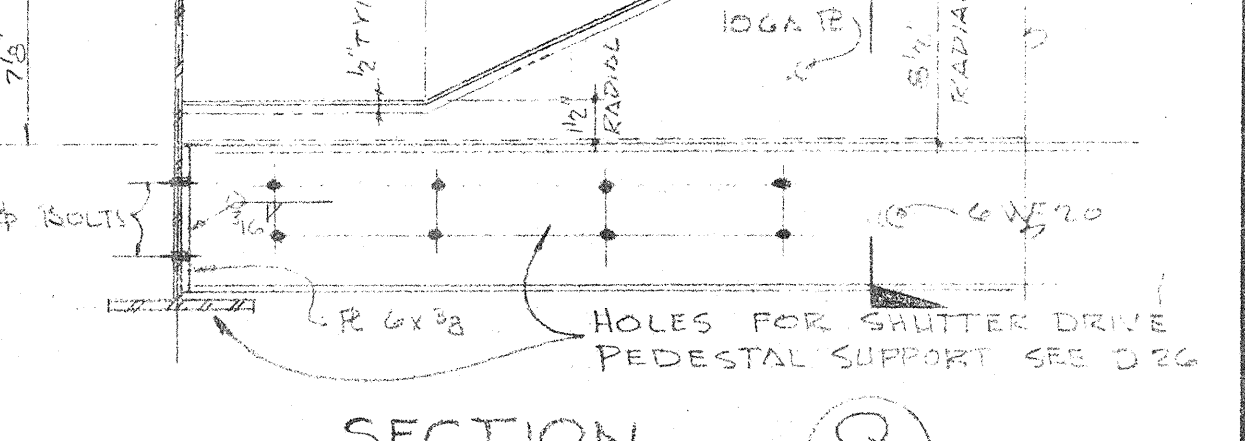
**SECTION**  
SCALE ~ 1/2"=1'-0"  
D5



**SECTION**  
SCALE ~ 1/2"=1'-0"  
D5



**PLAN SECTION**  
SCALE ~ 1/2"=1'-0"  
D5



**SECTION**  
SCALE ~ 1/2"=1'-0"  
D5

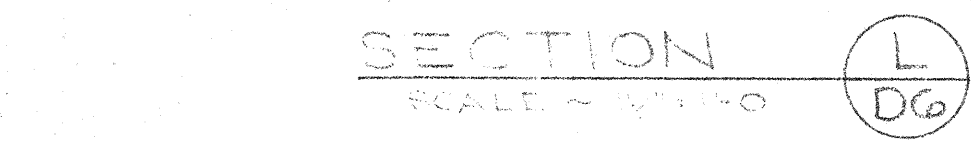
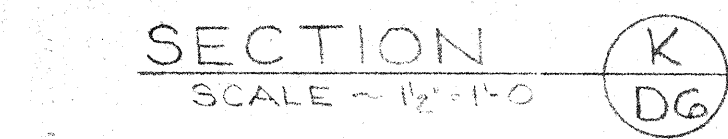
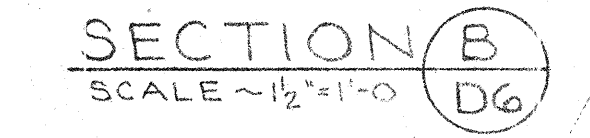
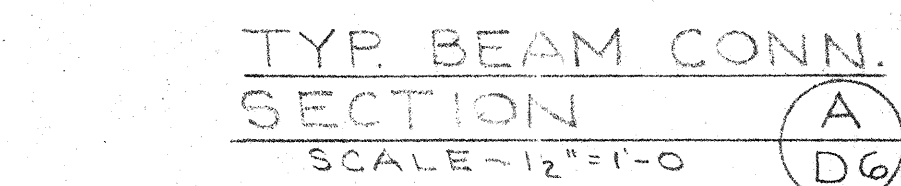
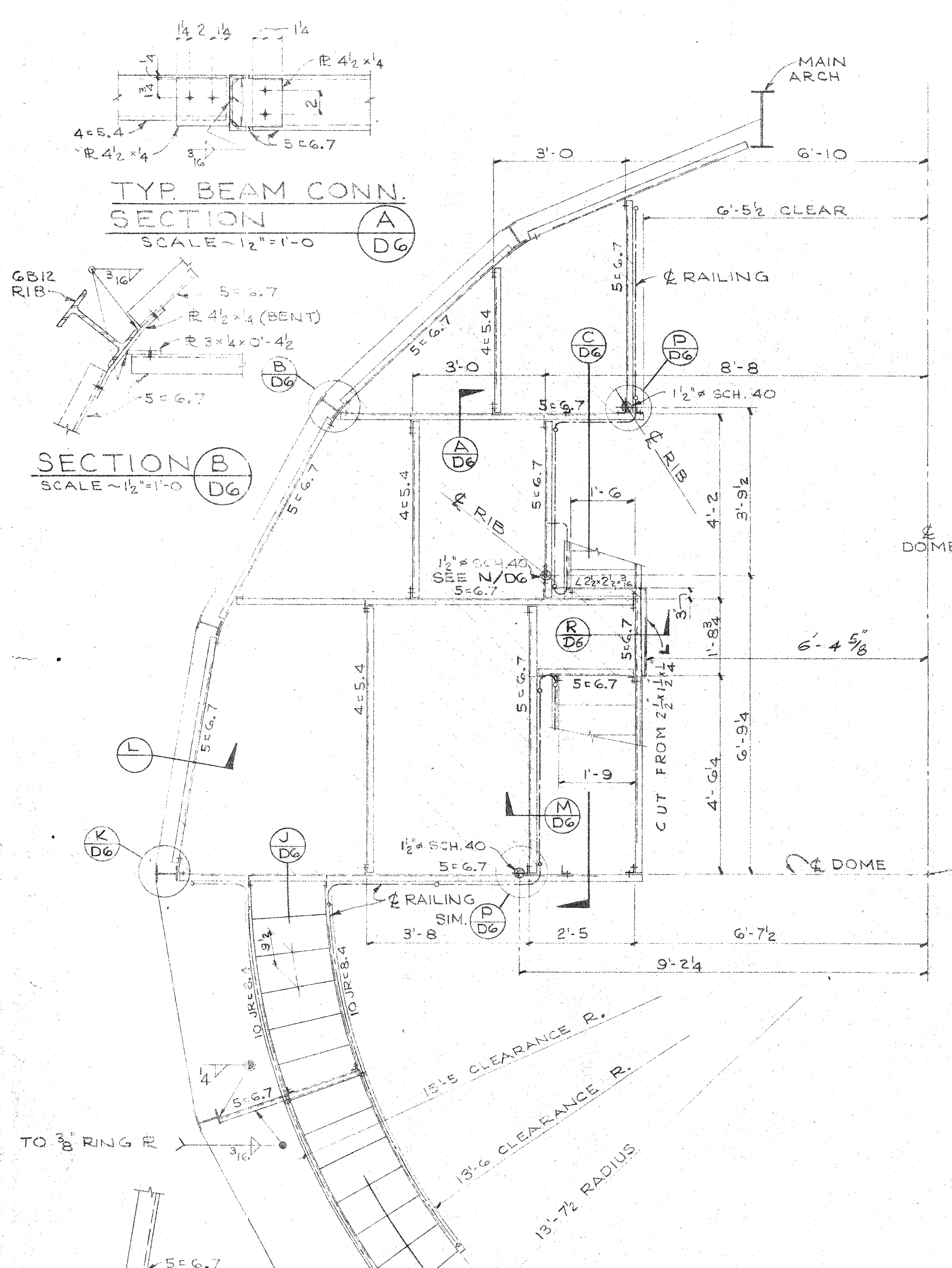
**NOTE:** 35 AIR INTAKES REQ'D SEE PLAN SHT. D-1 FOR LOCATION

**STEWART OBSERVATORY**  
**UNIVERSITY OF ARIZONA**  
**KITT PEAK**

**EXTERIOR & INTERIOR SKIN SECTIONS & DETAILS**

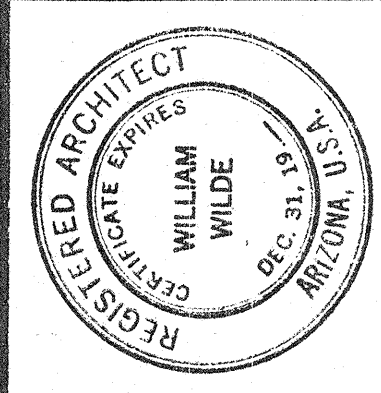
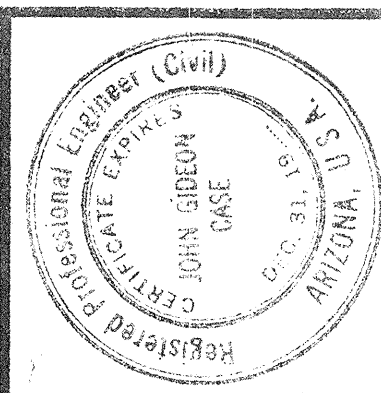
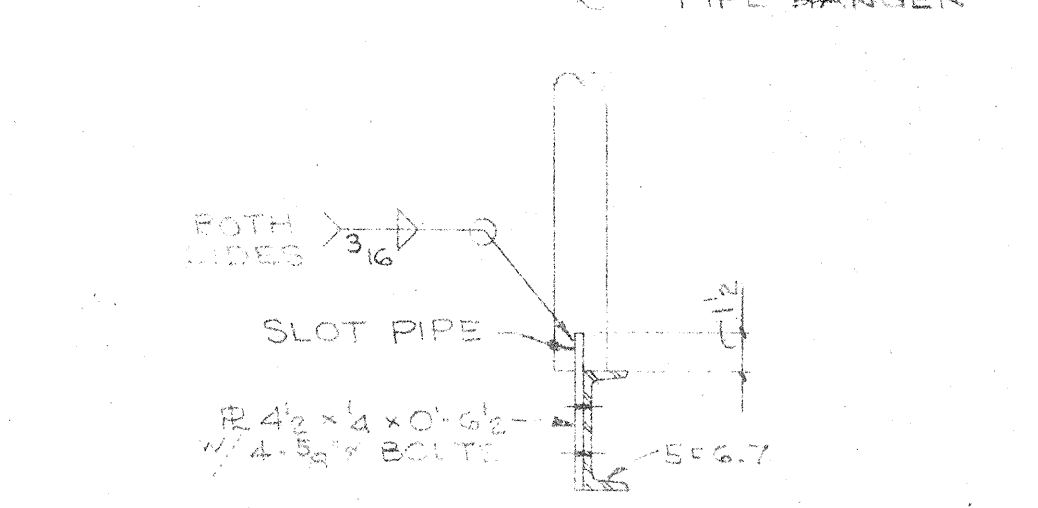
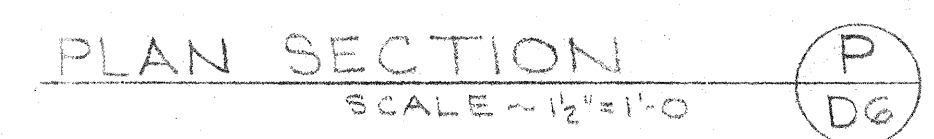
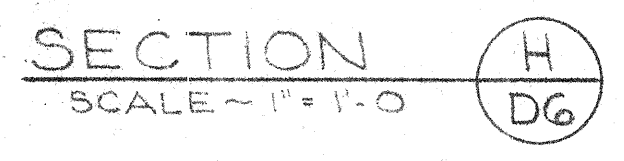
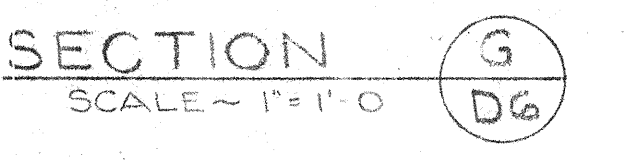
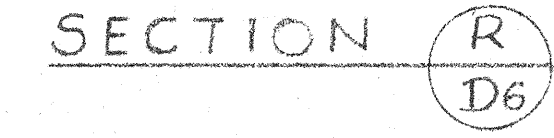
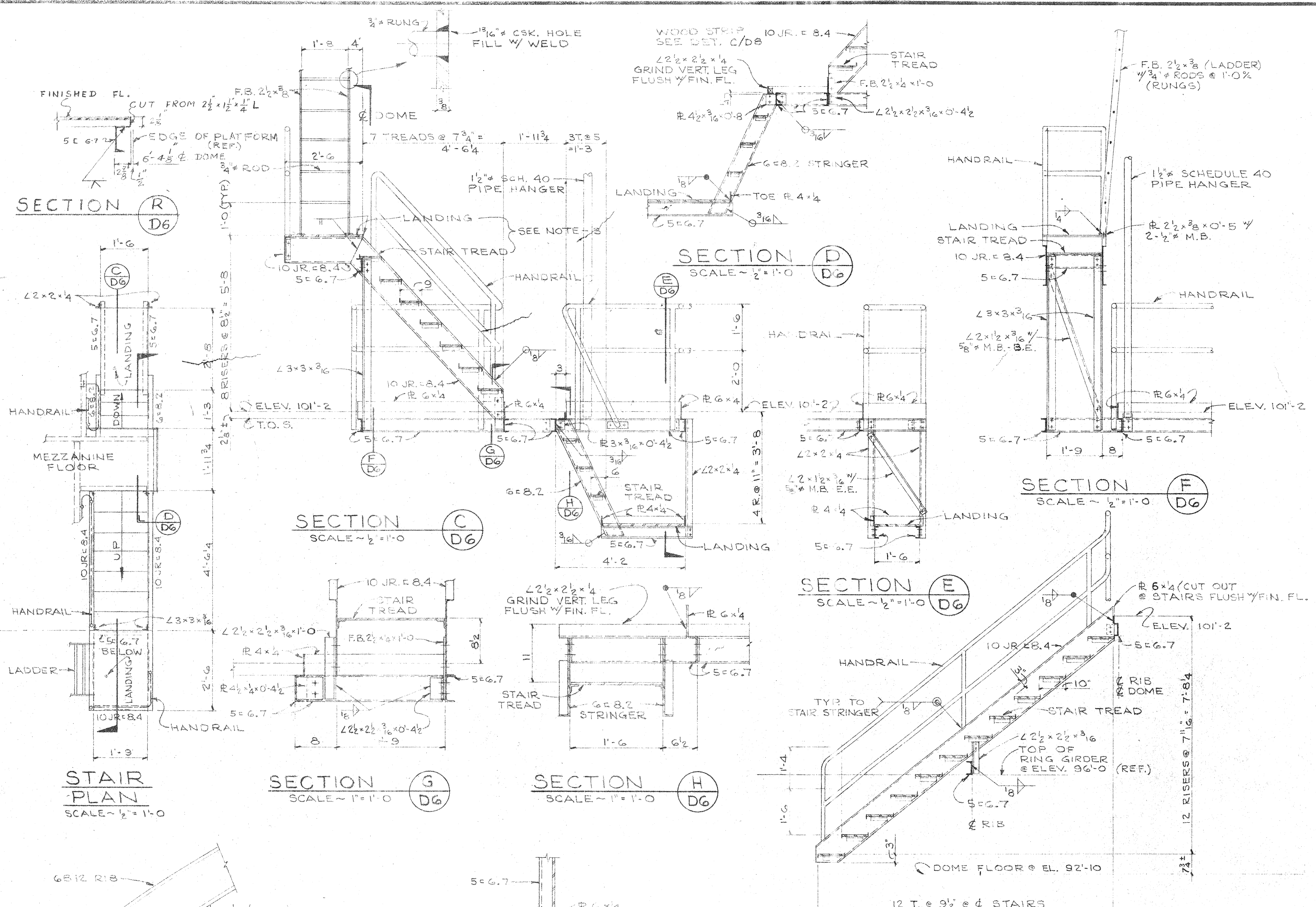
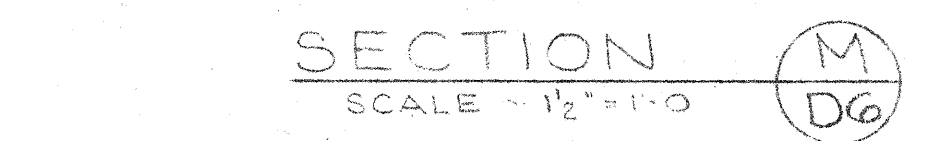
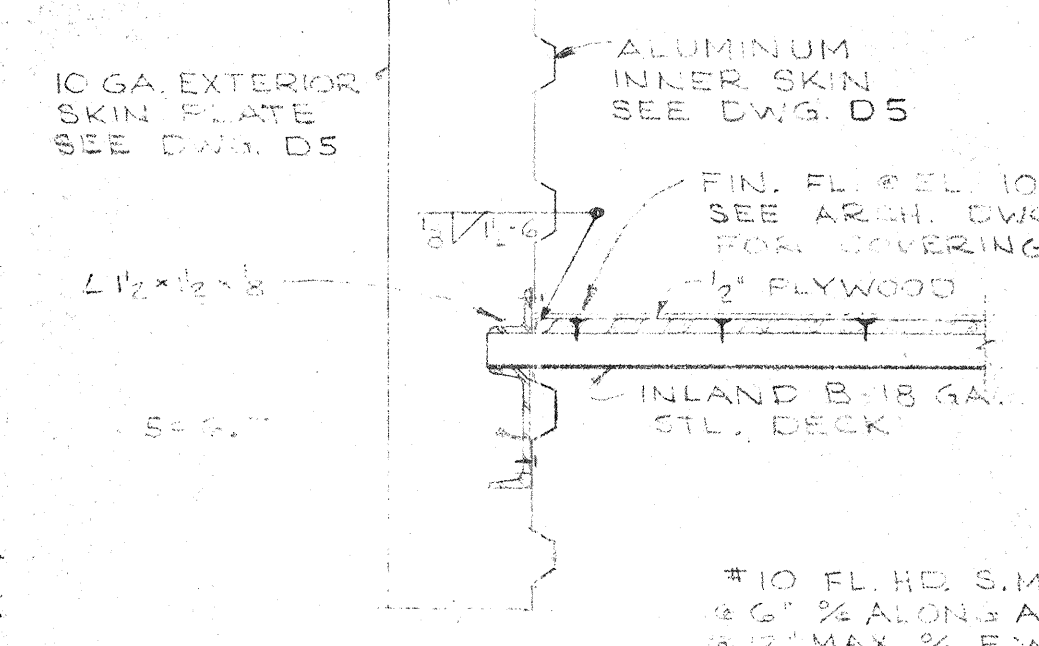
**WILLIAM WILDE ARCHITECT - AIA**  
 ARCHITECTURE - INDUSTRIAL DESIGN - SPACE PLANNING  
 151 SOUTH TUCSON BOULEVARD - TUCSON, ARIZONA - 85702  
 REGISTERED ARCHITECT  
 WILLIAM WILDE  
 DEC. 31, 1981  
 ARIZONA

DRAWING DATE: 10-2-81  
 COMMISSION: 6-1581  
**D5**



- NOTES:**
1. ALL CONNECTIONS - 5/8" M.B. UNLESS NOTED.
  2. HANDRAIL - 1 1/2" SCH. 40 PIPE ALL WELDED CONSTRUCTION. (SEE SECT. M/DG FOR CONN.)
  3. STAIR TREADS - METAL GRATING WELDED TO SUPPORTS, 1/2" 1"x8" EDGING STRIP @ NOSE.
  4. STEEL DECK WELDED TO ALL SUPPORT @ 12% TYP 3/8" @ ALL MARGINS
  5. LANDINGS - 3/16" CHECKERBOARD PLATE

**STAIRS & MEZZANINE FRAMING PLAN**  
SCALE - 1/2" = 1'-0"

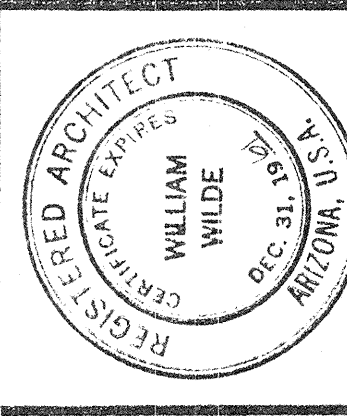
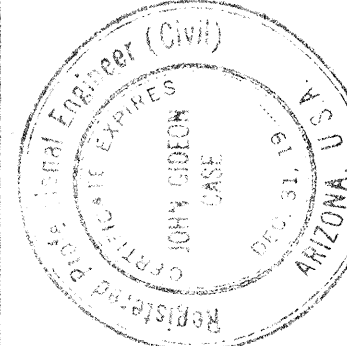
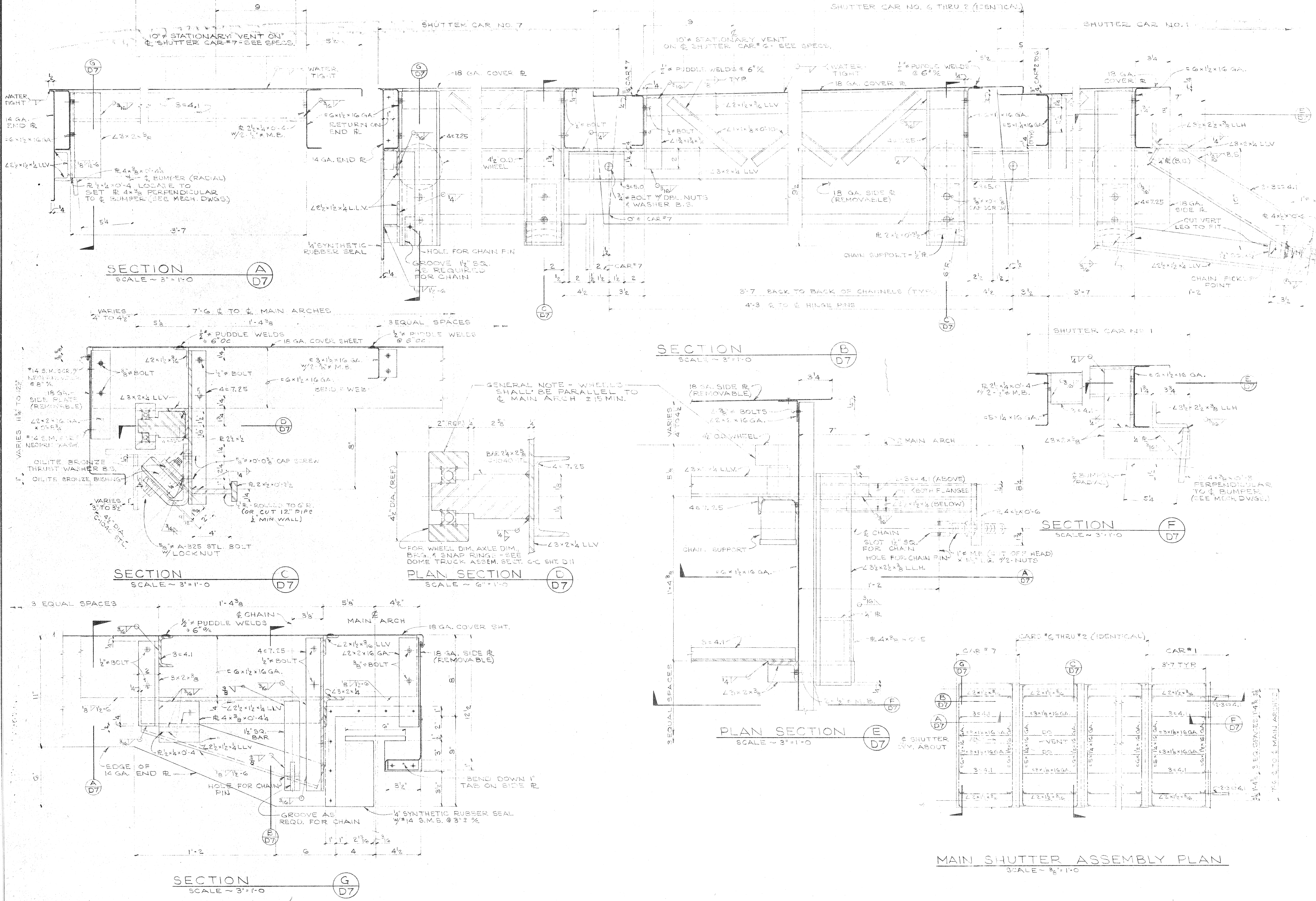


**WILLIAM WILDE ARCHITECT - AIA**  
ARCHITECTURE - INDUSTRIAL DESIGN - SPACE PLANNING  
151 SOUTH TUCSON BOULEVARD - TUCSON, ARIZONA - EA 5-3373

**STEWART OBSERVATORY**  
**UNIVERSITY OF ARIZONA**  
**KITT PEAK**

**MEZZANINE & STAIR PLANS, SECTIONS & DETAILS**

DRAWING  
ISSUE DATE  
10-2-61  
COMMISSION  
6-1851  
**D6**

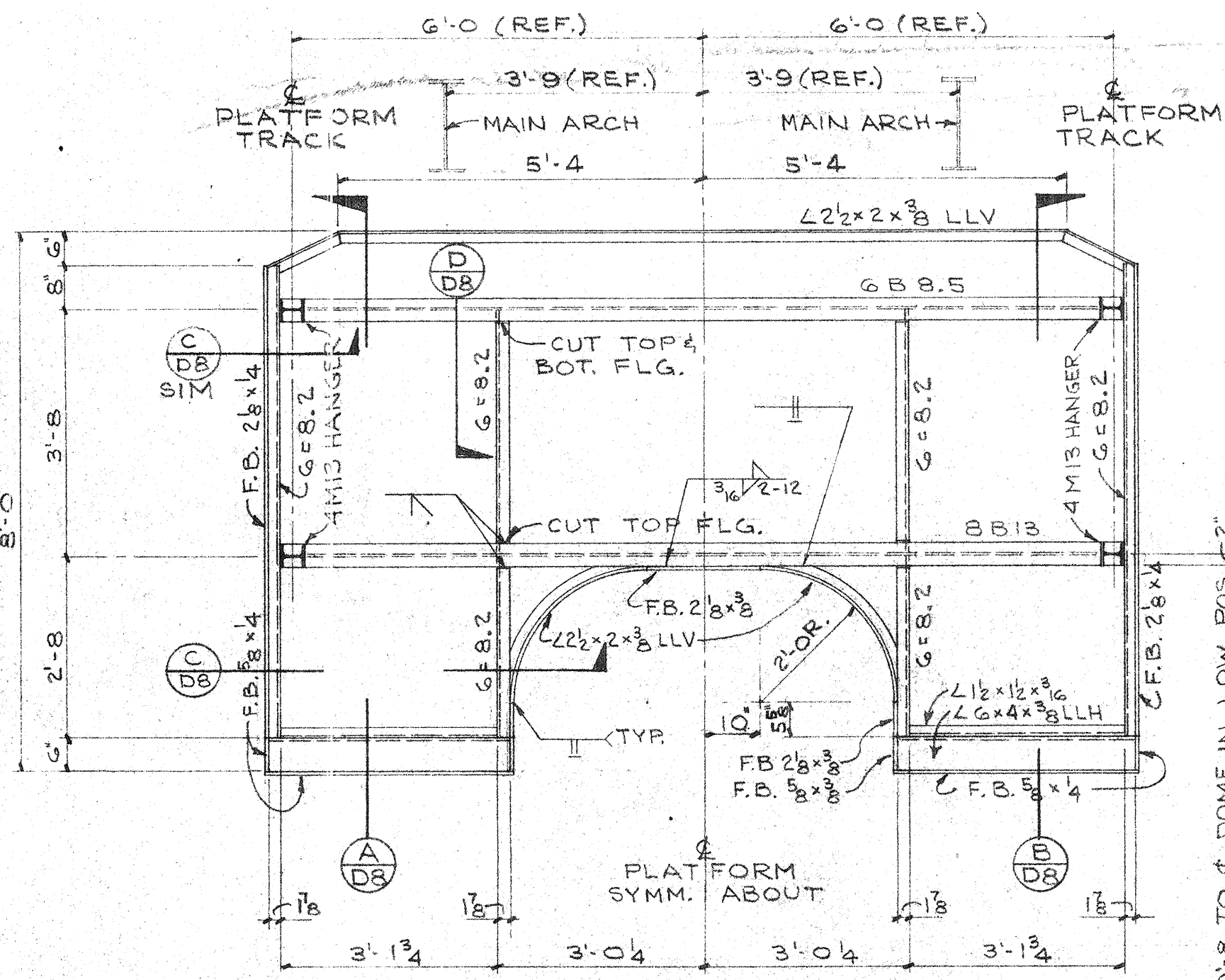


**WILLIAM WILDE ARCHITECT AIA**  
 ARCHITECTURE • INDUSTRIAL DESIGN • SPACE PLANNING  
 101 SOUTH TUCSON BOULEVARD • TUCSON, ARIZONA • EA 0-3073  
THIS SEAL IS VALID FOR ARCHITECTS REGISTERED IN THE STATE OF ARIZONA ONLY. IT CAN BE USED ONLY FOR THE PURPOSES SPECIFIED THEREIN. STATE OF ARIZONA, TUCSON, ARIZONA.

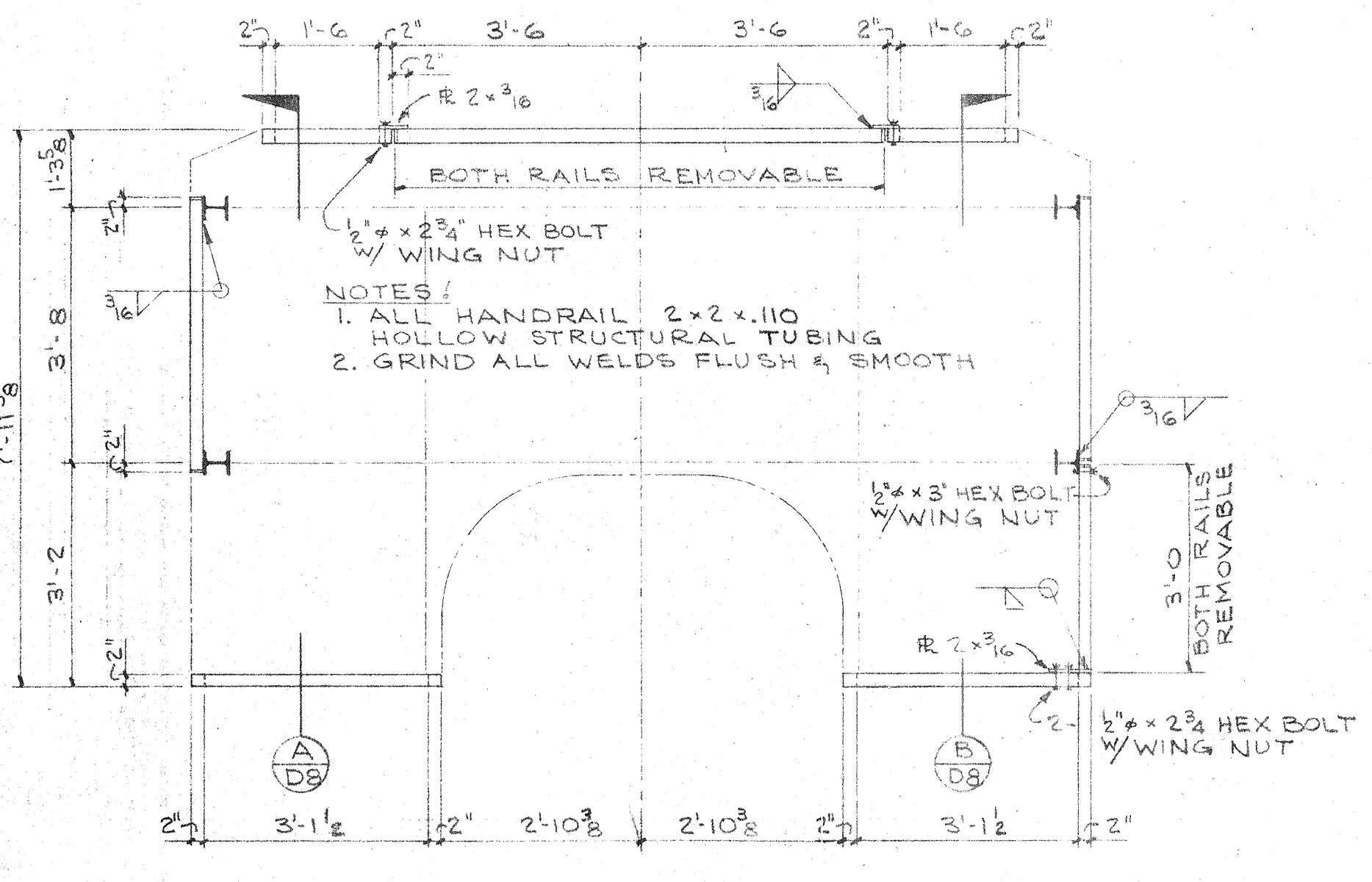
**STEWART OBSERVATORY UNIVERSITY OF ARIZONA**  
**KITT PEAK**

**MAIN SHUTTER PLAN SECTIONS & DETAILS**

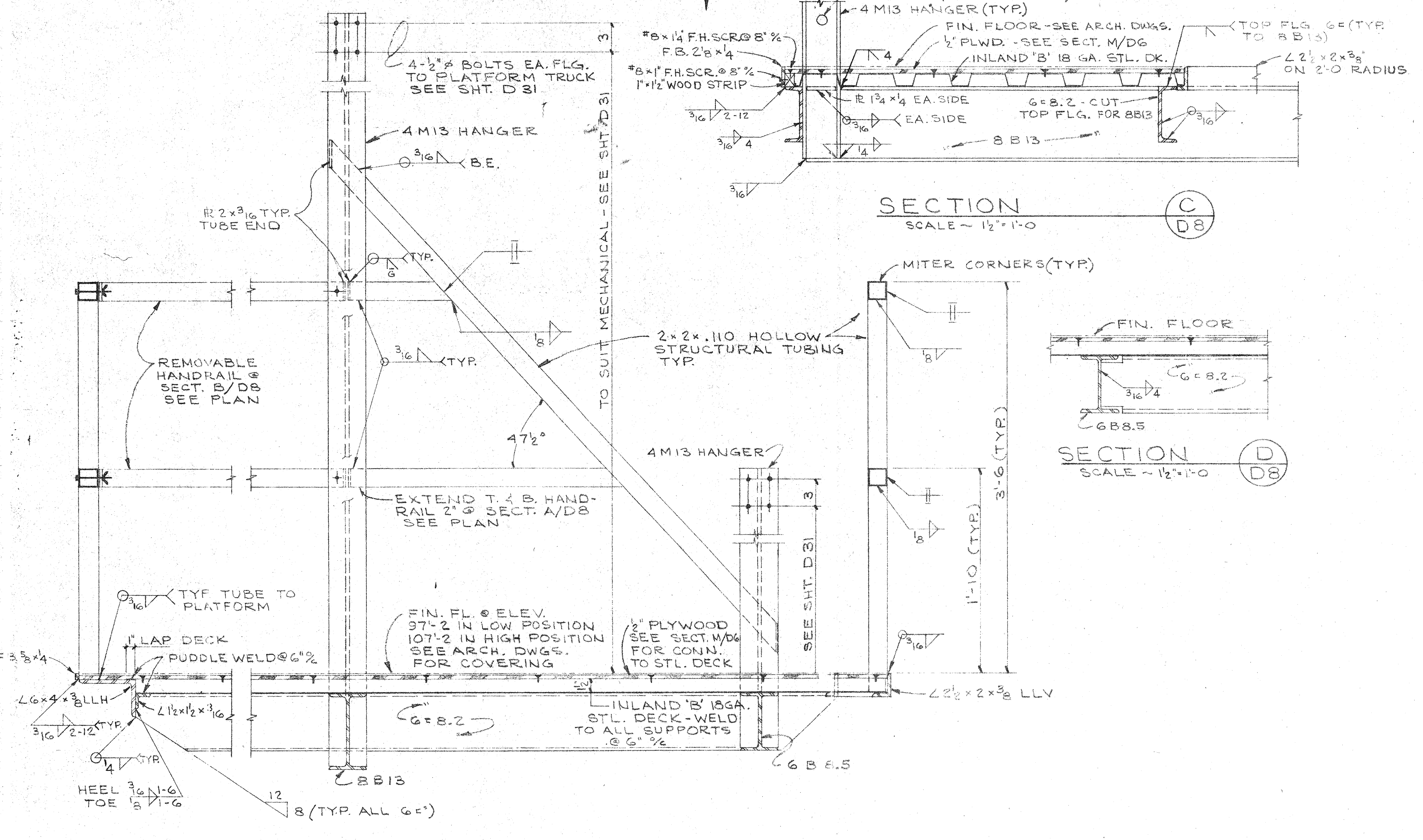
DRAWING: **D7**  
 ISSUE DATE: 10-2-61  
 COMMISSION: 6-18-59



PLATFORM FRAMING PLAN  
SCALE - 1/2" = 1'-0"



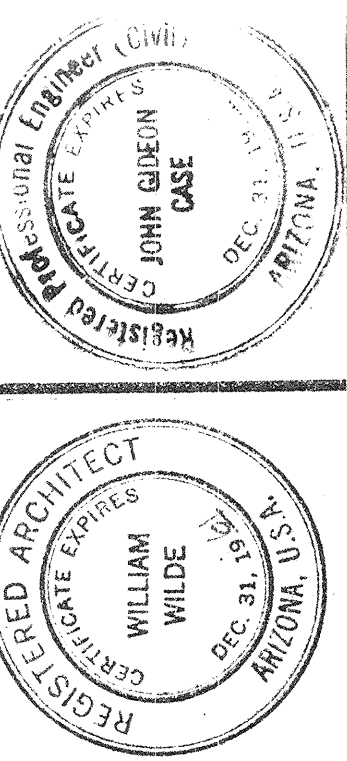
PLATFORM HANDRAIL PLAN  
SCALE - 1/2" = 1'-0"



SECTION A D8 (OPPOSITE HAND)  
SECTION B D8  
SCALE - 1/2" = 1'-0"

SECTION C D8  
SCALE - 1/2" = 1'-0"

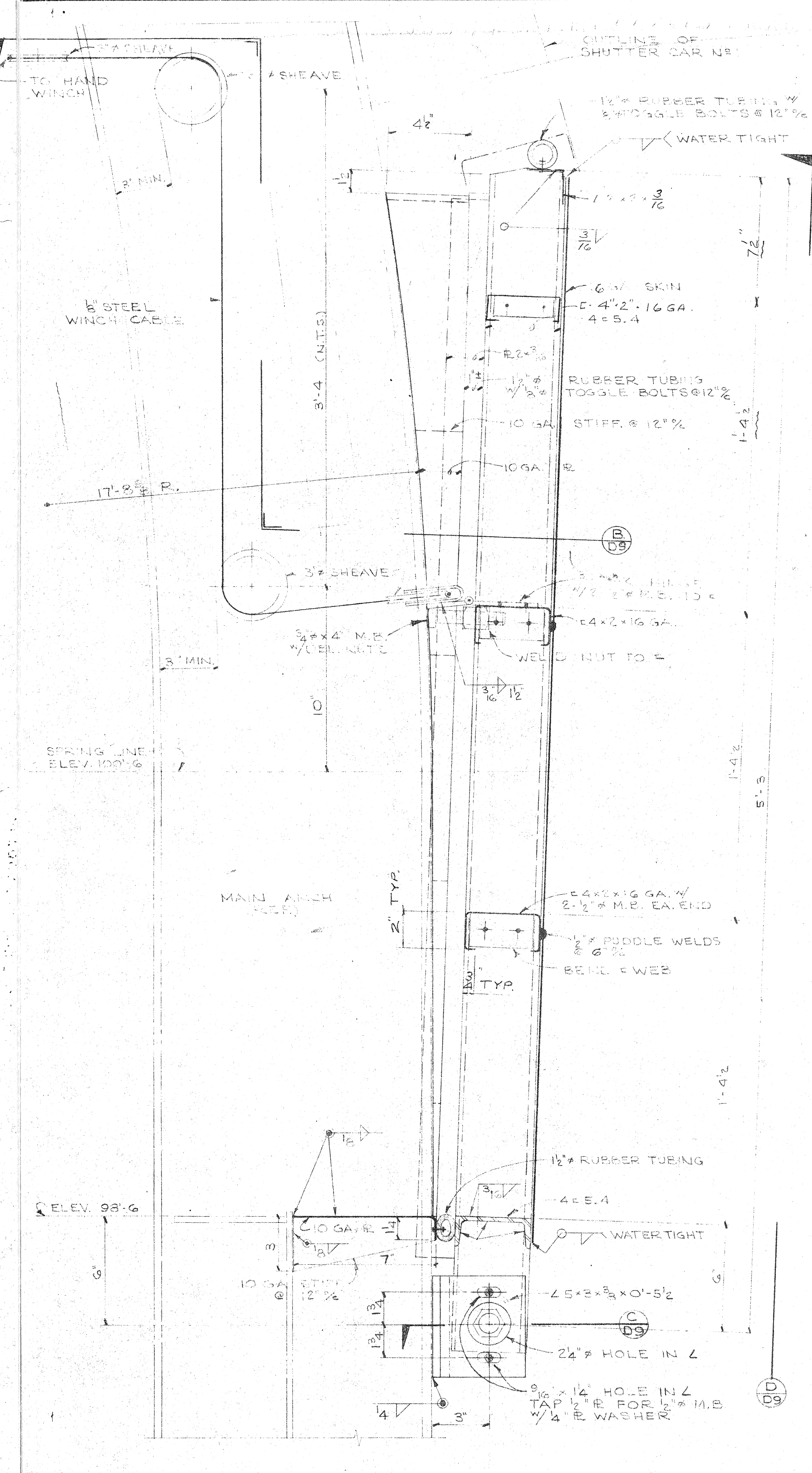
SECTION D D8  
SCALE - 1/2" = 1'-0"



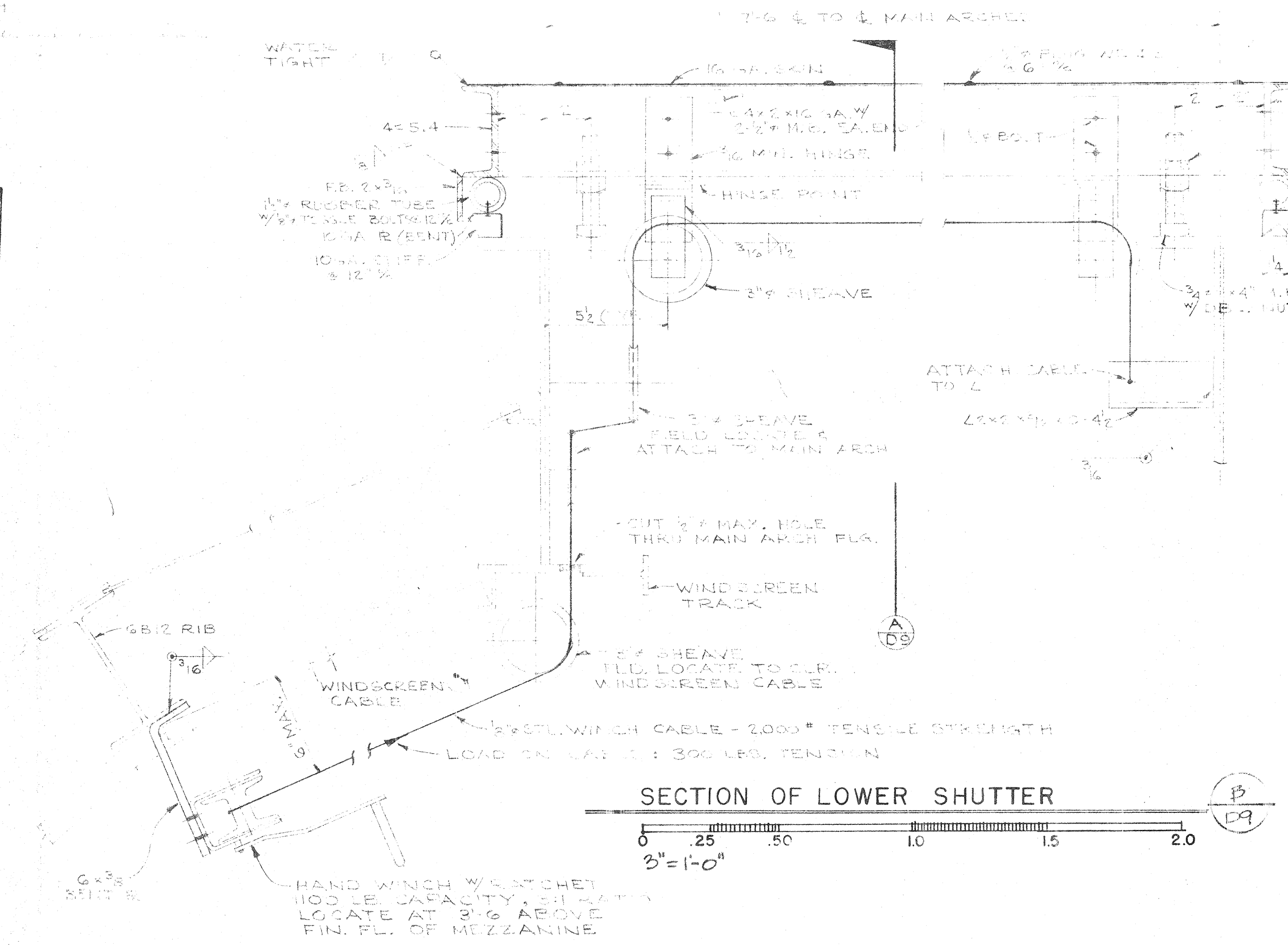
**WILLIAM WILDE ARCHITECT AIA**  
 ARCHITECTURE - INDUSTRIAL DESIGN SPACE PLANNING  
 151 SOUTH TUCSON BOULEVARD - TUCSON, ARIZONA - 85705  
 PHONE: (520) 624-2200 FAX: (520) 624-2201  
 WWW.WWARCHITECT.COM

OBSEVER'S PLATFORM  
 STEWARD OBSERVATORY  
 UNIVERSITY OF ARIZONA  
 KITT PEAK

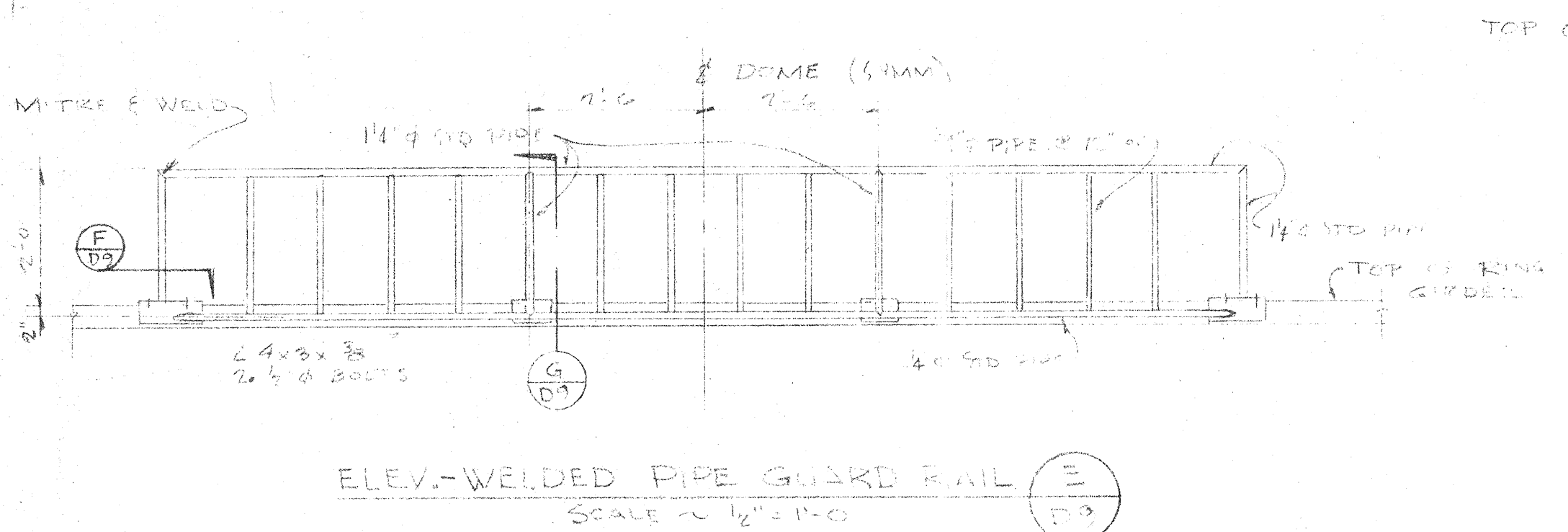
DRAWING	ISSUE DATE	COMMISSION
108	10-2-01	6-1857



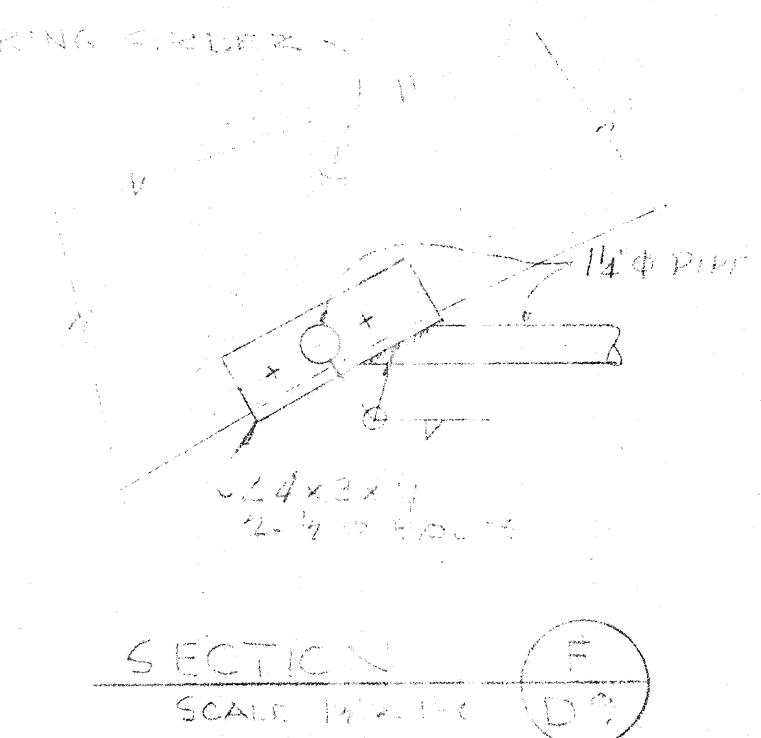
SECTION A-D9  
SCALE ~ 3" = 1'-0"



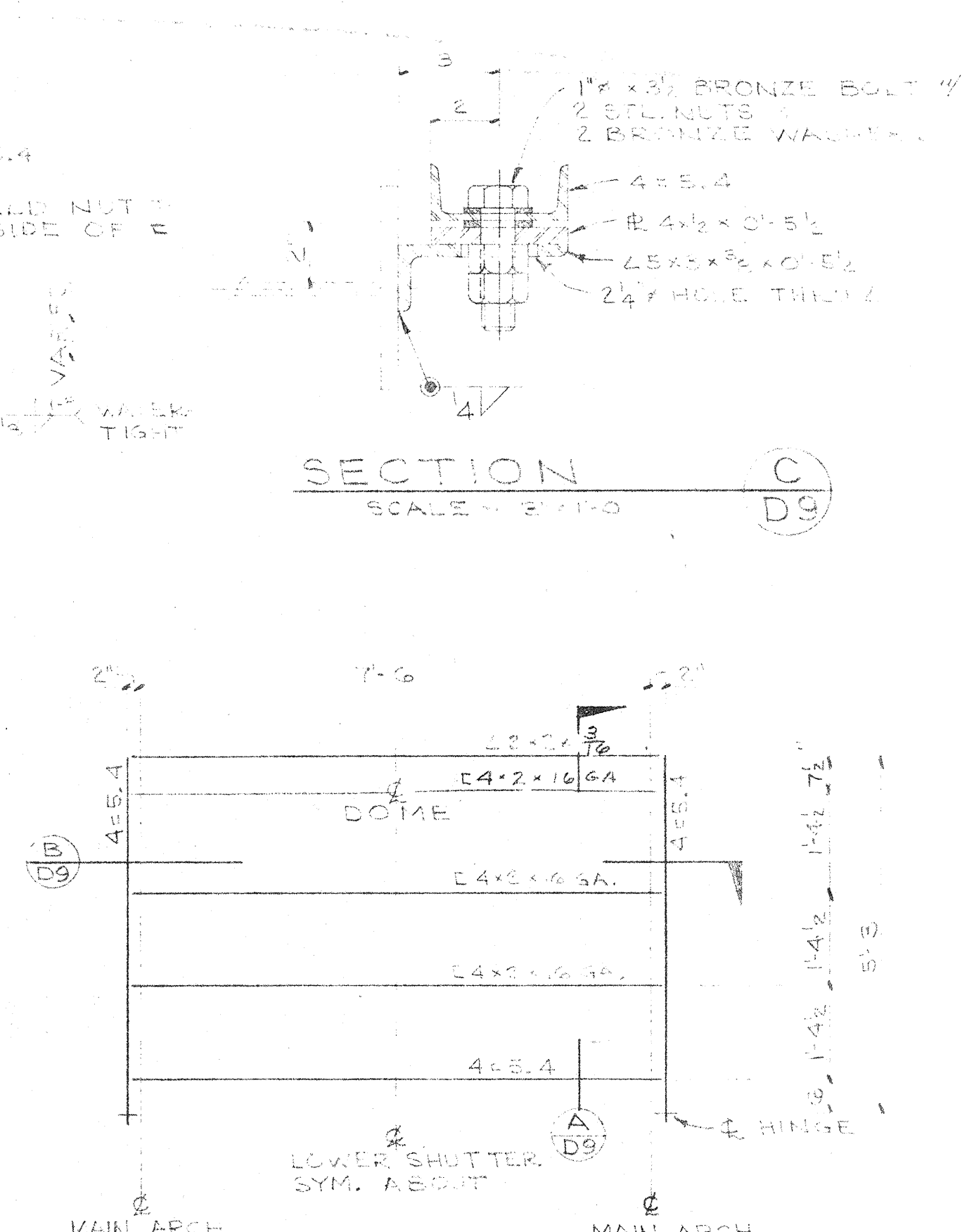
SECTION OF LOWER SHUTTER B-D9  
SCALE 3" = 1'-0"



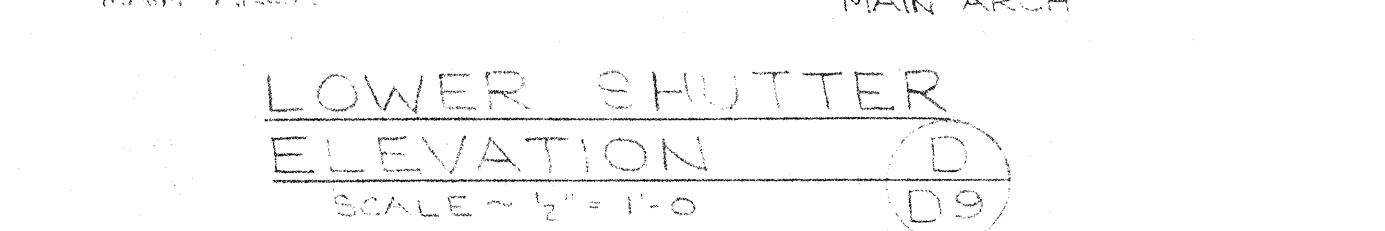
ELEV.-WELDED PIPE GUARD RAIL E-D9  
SCALE ~ 1/2" = 1'-0"



SECTION F-D9  
SCALE 1/2" = 1'-0"

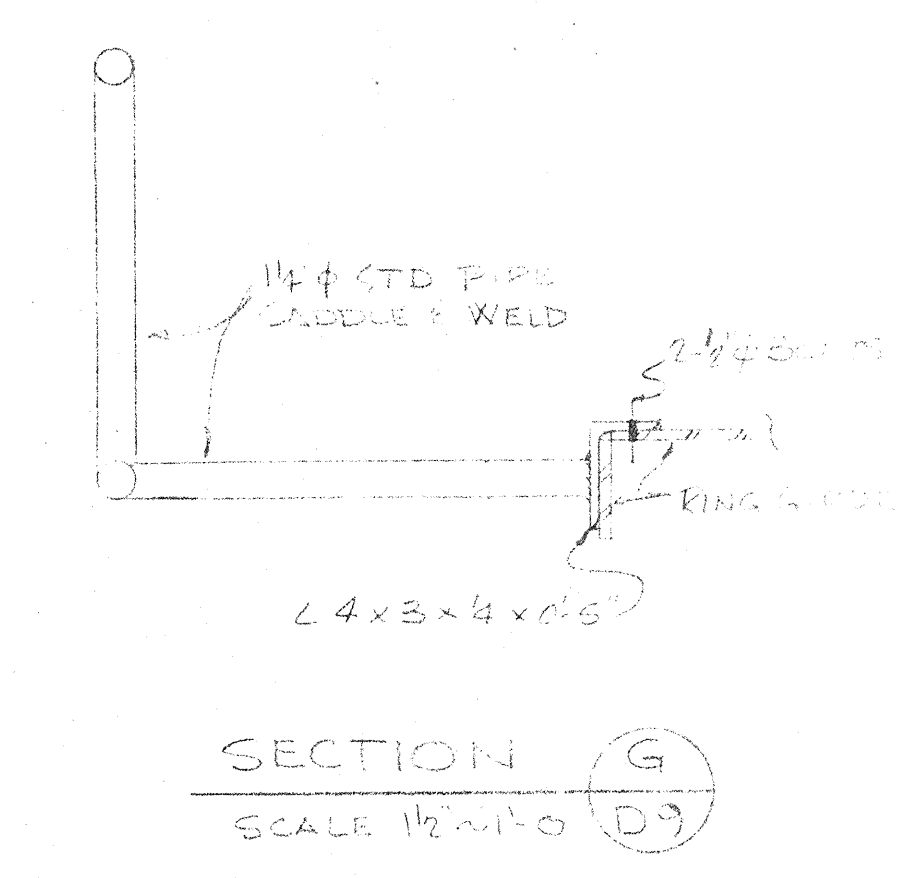


SECTION C-D9  
SCALE ~ 3/4" = 1'-0"

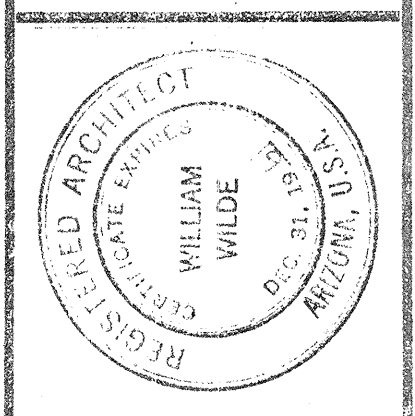
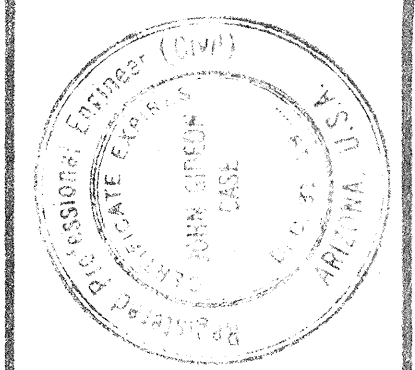


LOWER SHUTTER ELEVATION D-D9  
SCALE ~ 1/2" = 1'-0"

CONTRACTOR NOTE: 3" Lx4 1/4" WELDED DIRECTLY TO SIDE CHANNELS, MAY BE SUBSTITUTED FOR 10GA D SHOWN



SECTION G-D9  
SCALE 1/2" = 1'-0"

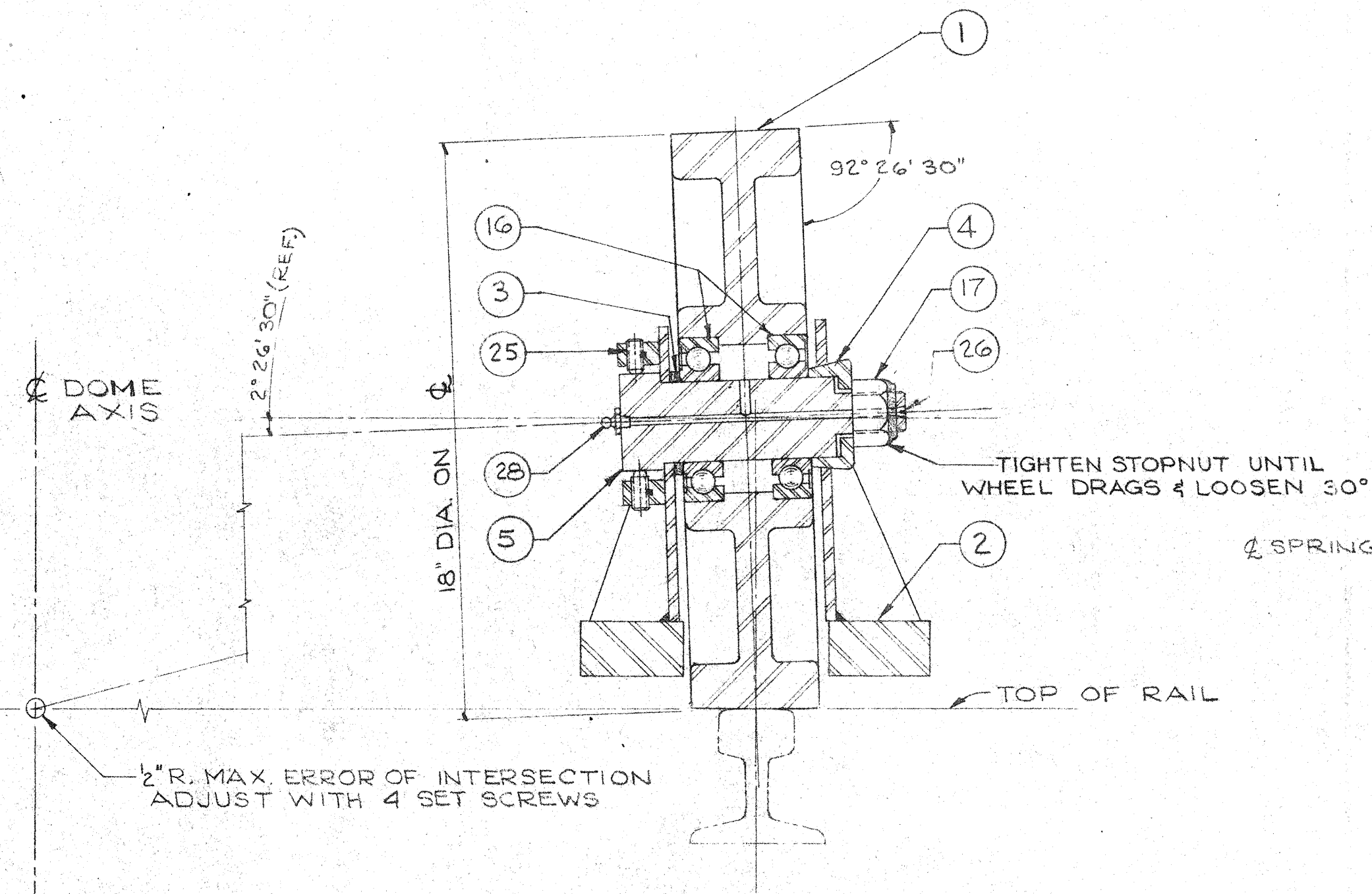


**WILLIAM WILDE ARCHITECT AIA**  
ARCHITECTURE • INDUSTRIAL DESIGN • SPACE PLANNING  
151 SOUTH TUCSON BOULEVARD • TUCSON, ARIZONA • CA 5-3373

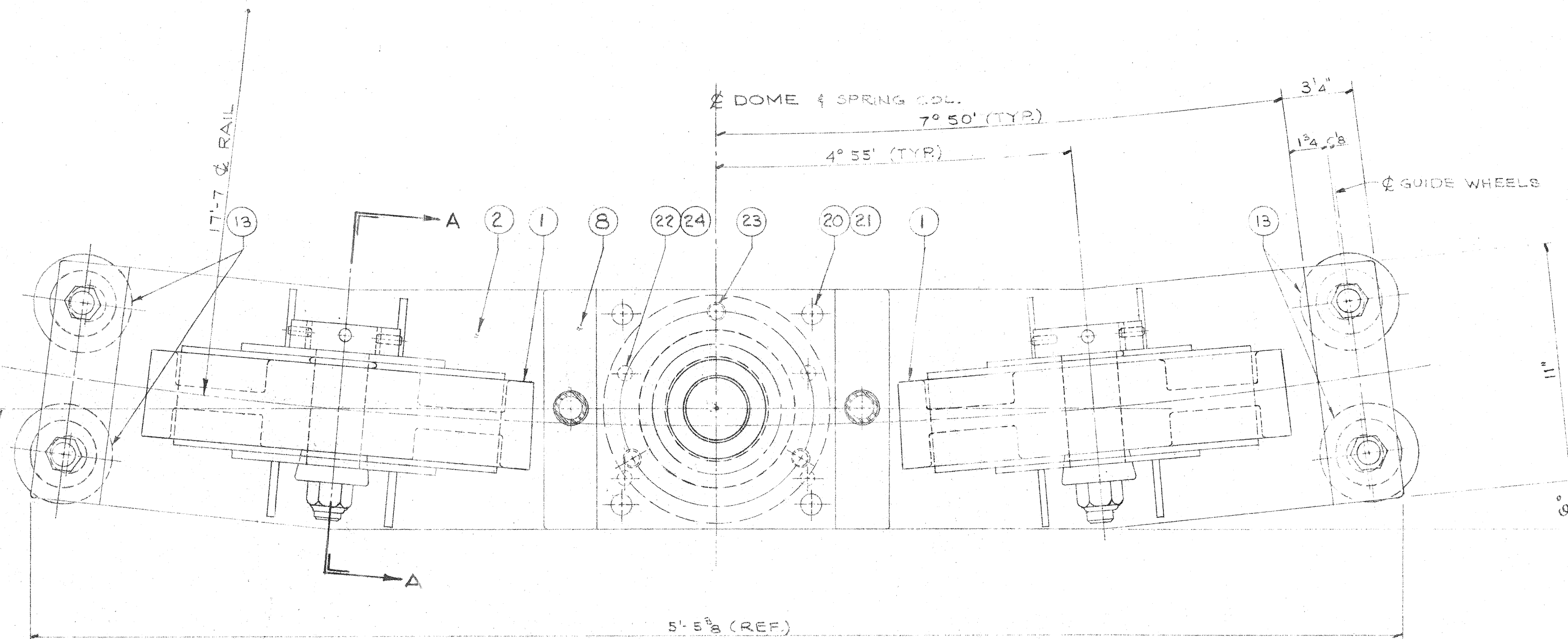
STEWART OBSERVATORY  
UNIVERSITY OF ARIZONA  
KIT PEAK

LOWER SHUTTER

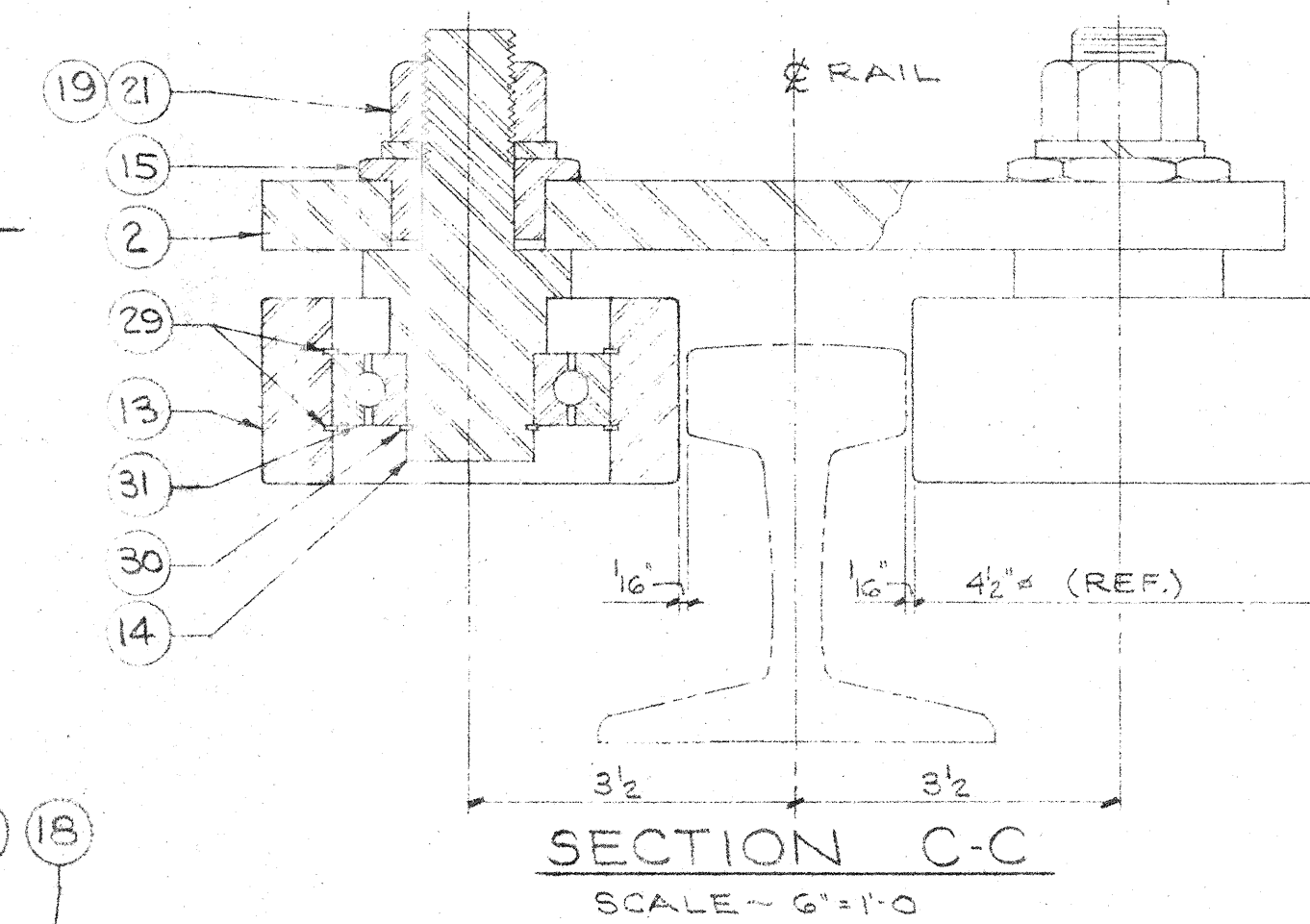
DRAWING  
ISSUE DATE  
10-2-51  
COMMISSION  
6-1859  
**D9**



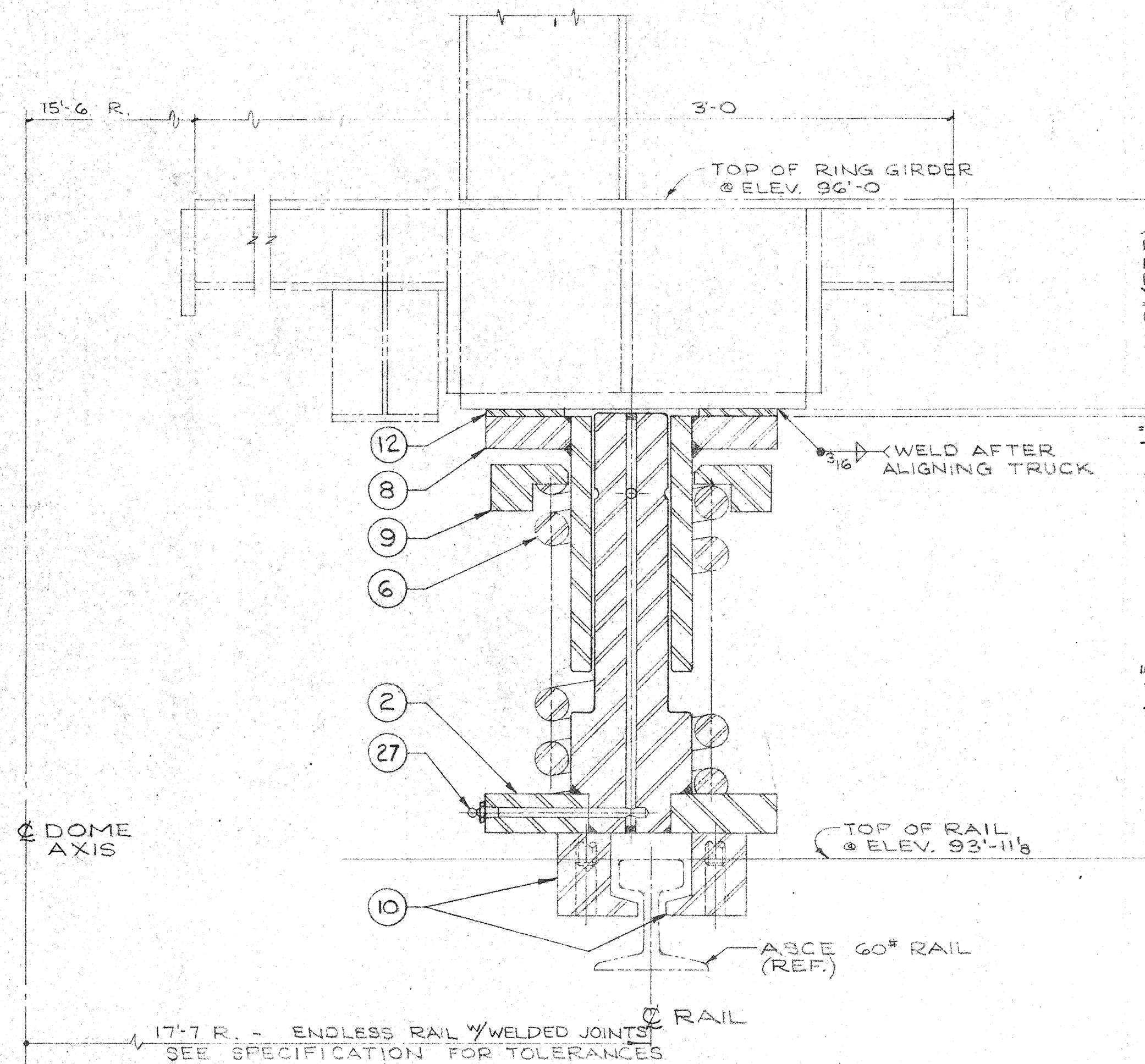
SECTION A-A  
SCALE - 3"=1'-0"



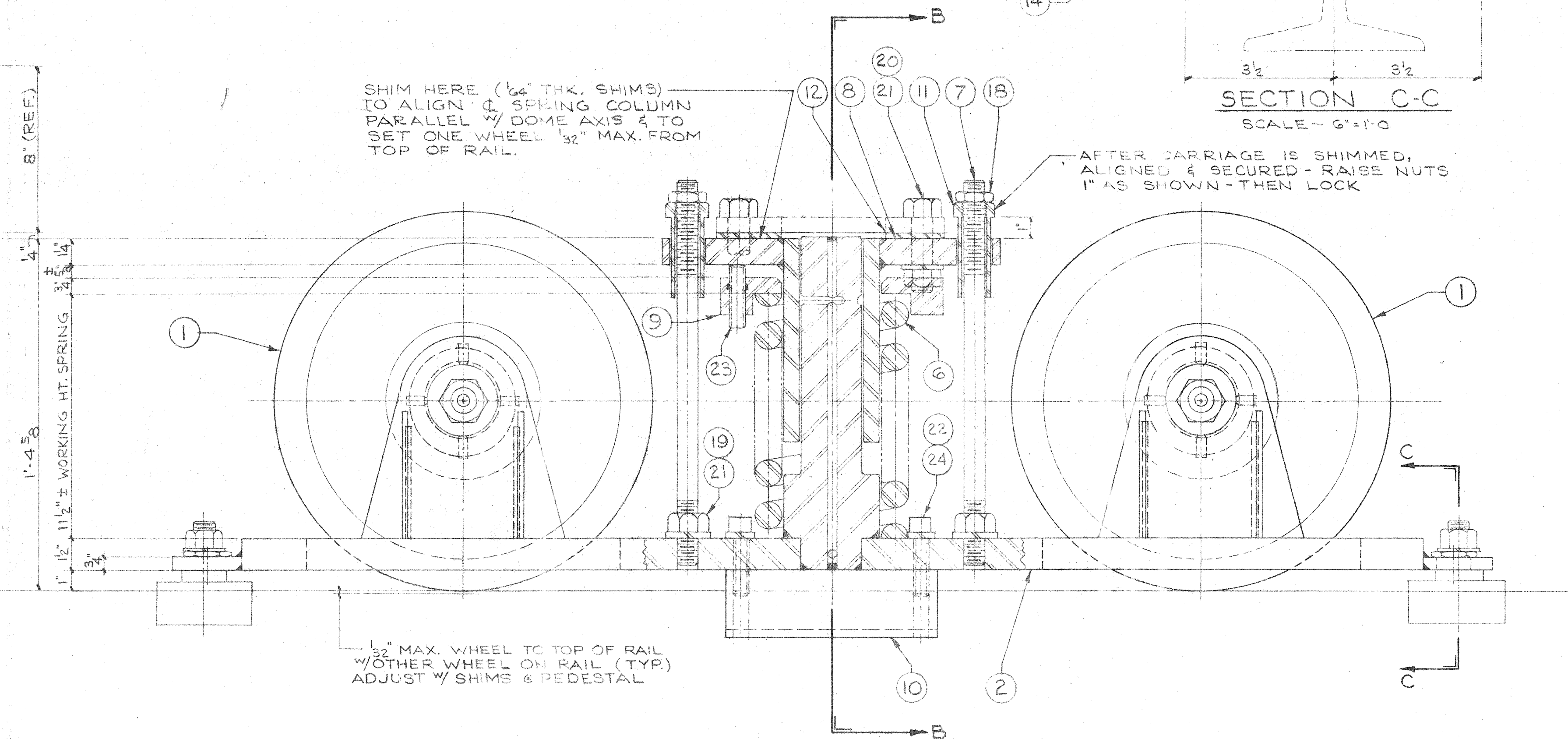
PLAN VIEW  
SCALE - 3"=1'-0"



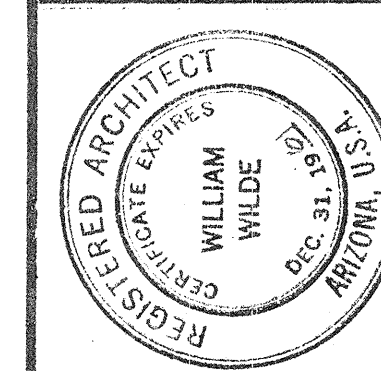
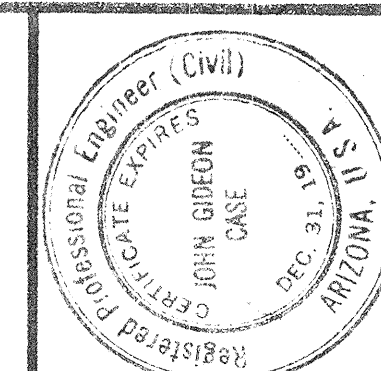
SECTION C-C  
SCALE - 6"=1'-0"



SECTION B-B  
SCALE - 3"=1'-0"



DOMESTRUCK ASSEMBLY - 10 REQD.  
SCALE - 3"=1'-0"  
SEE SHEET D12 FOR DOME TRUCK ASSEMBLY LIST

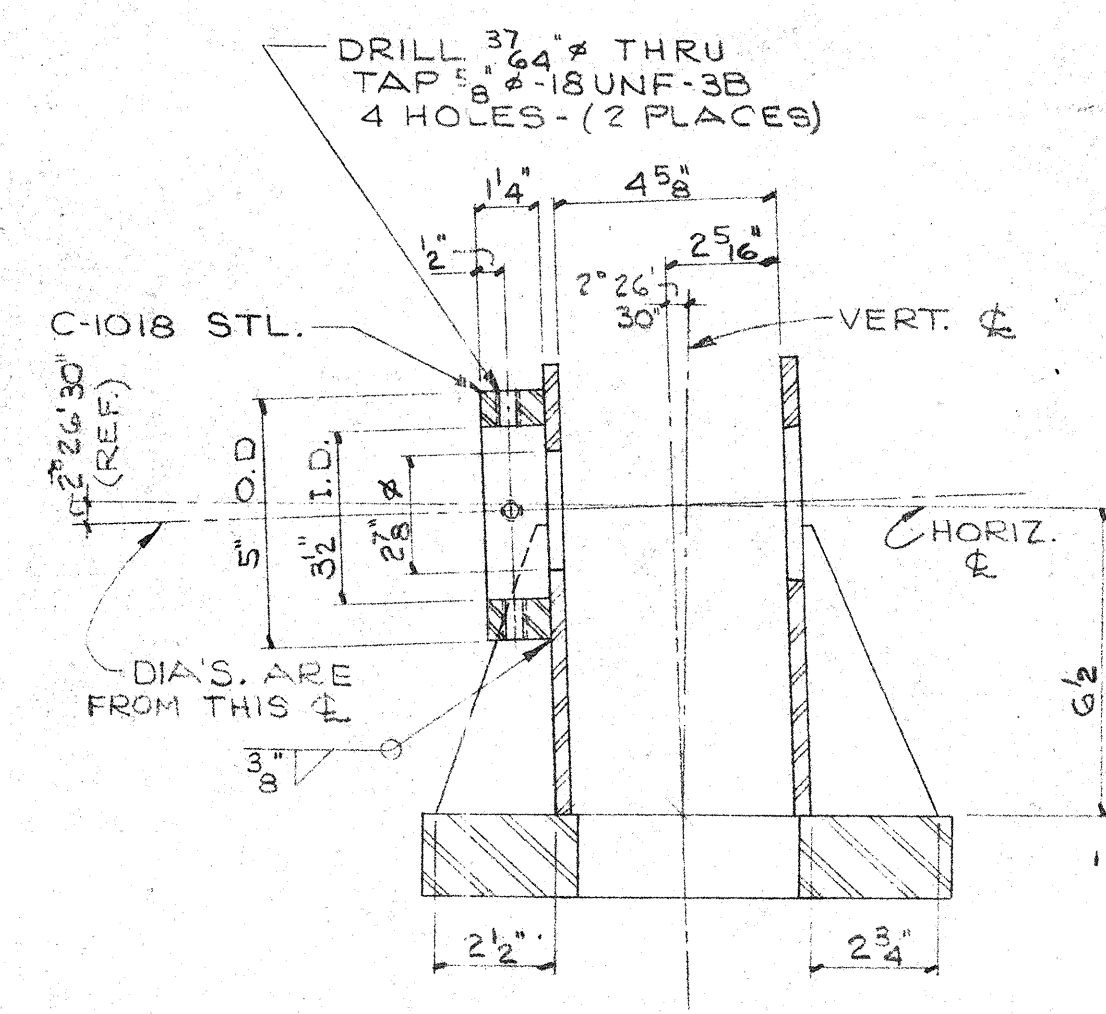


**WILLIAM WILDE ARCHITECT - AIA**  
ARCHITECTURE - INDUSTRIAL DESIGN SPACE PLANNING  
151 SOUTH TUCSON BOULEVARD - TUCSON, ARIZONA - RA 3-18375  
THIS DRAWING IS A PRELIMINARY DESIGN. IT IS THE PROPERTY OF WILLIAM WILDE ARCHITECTS, INC. AND IS NOT TO BE REPRODUCED OR USED FOR ANY OTHER PURPOSE WITHOUT THE WRITTEN PERMISSION OF WILLIAM WILDE ARCHITECTS, INC. ANY REPRODUCTION FOR ANY OTHER PURPOSE WITHOUT THE WRITTEN PERMISSION OF WILLIAM WILDE ARCHITECTS, INC. SHALL BE HELD TO BE A VIOLATION OF THE ARCHITECTURAL ACT.

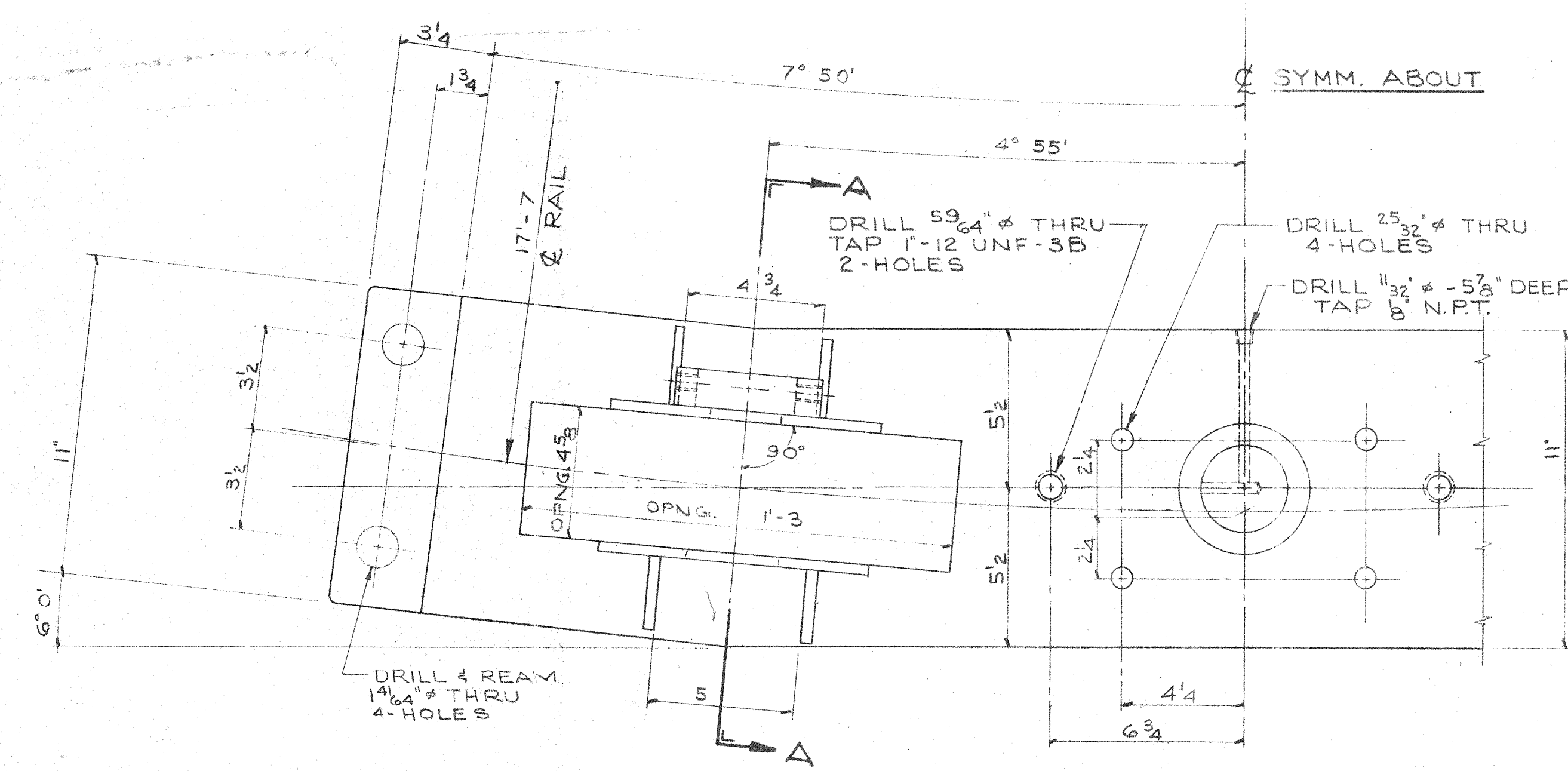
STEWART OBSERVATORY  
UNIVERSITY of ARIZONA  
KIT PEAK

DOMESTRUCK  
ASSEMBLY

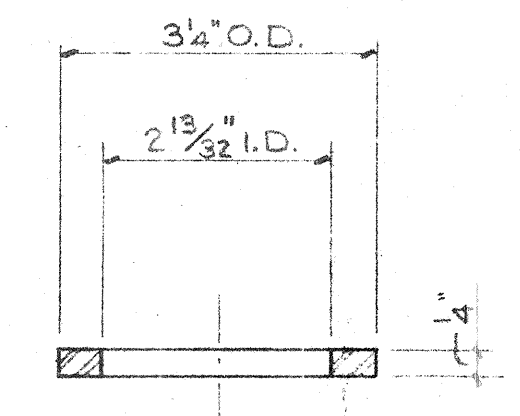
ISSUE DATE  
10-2-61  
COMMISSION  
6-1859  
**DII**



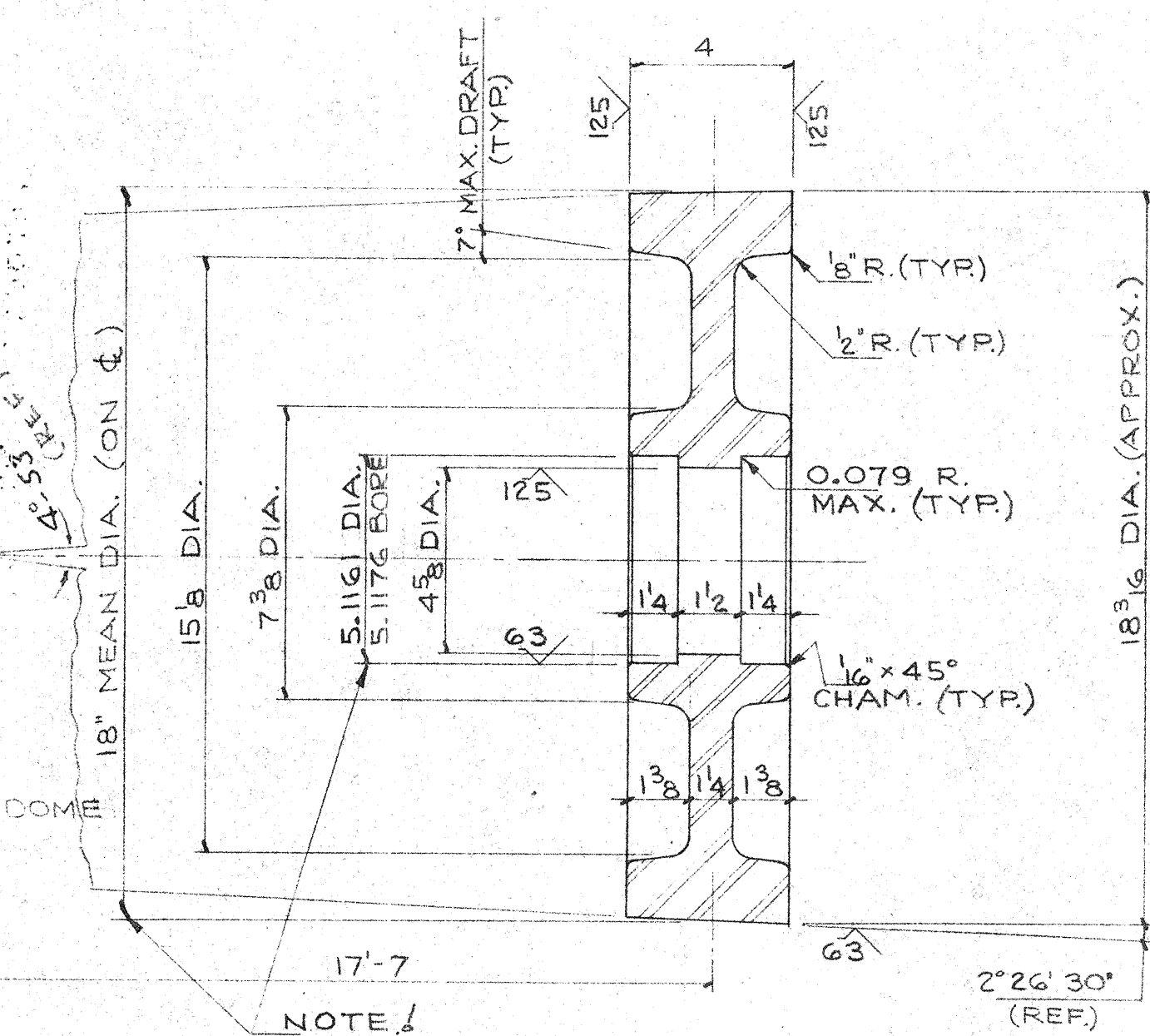
**SECTION A-A**  
SCALE ~ 3" = 1'-0"



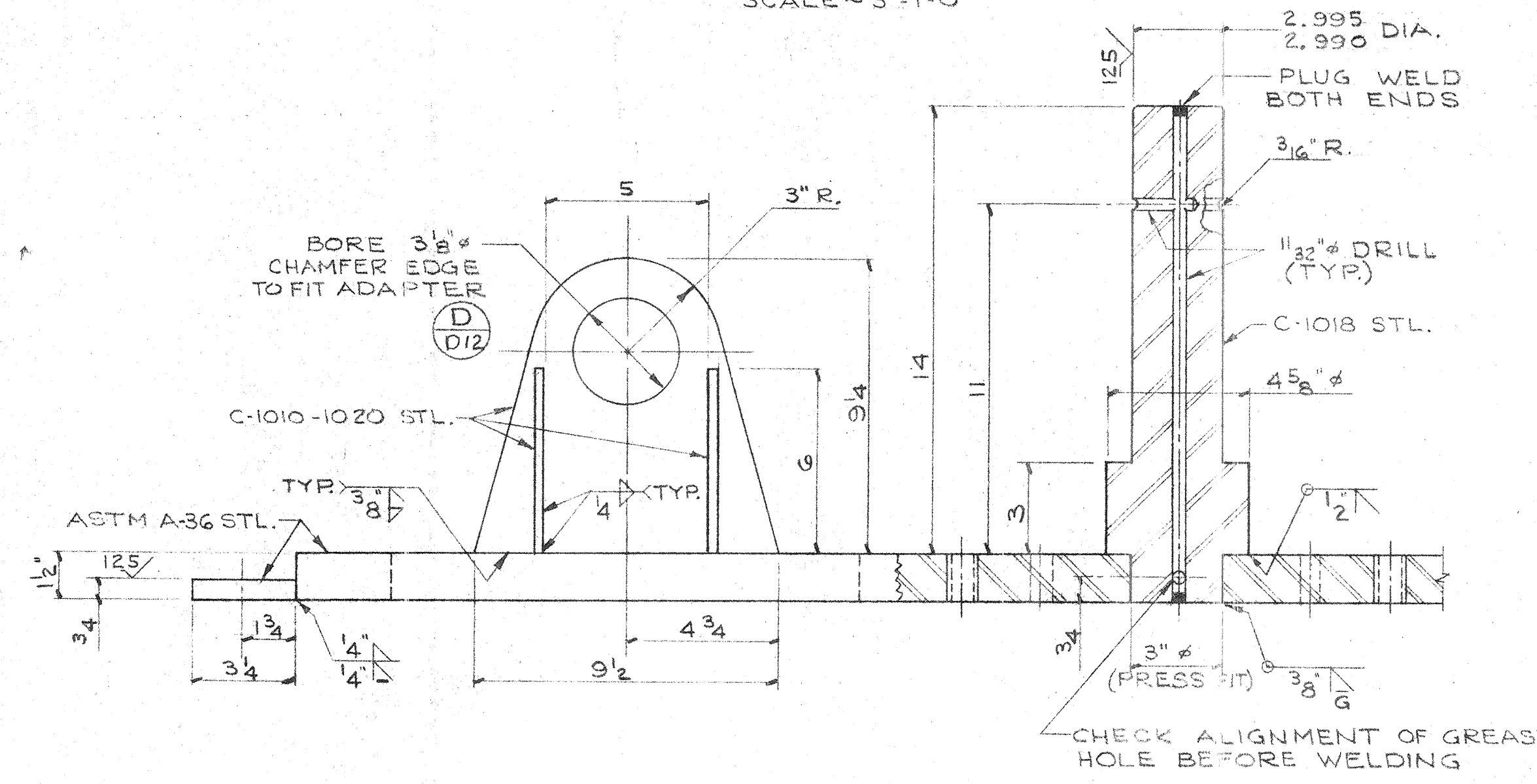
**PLAN VIEW**  
SCALE ~ 3" = 1'-0"



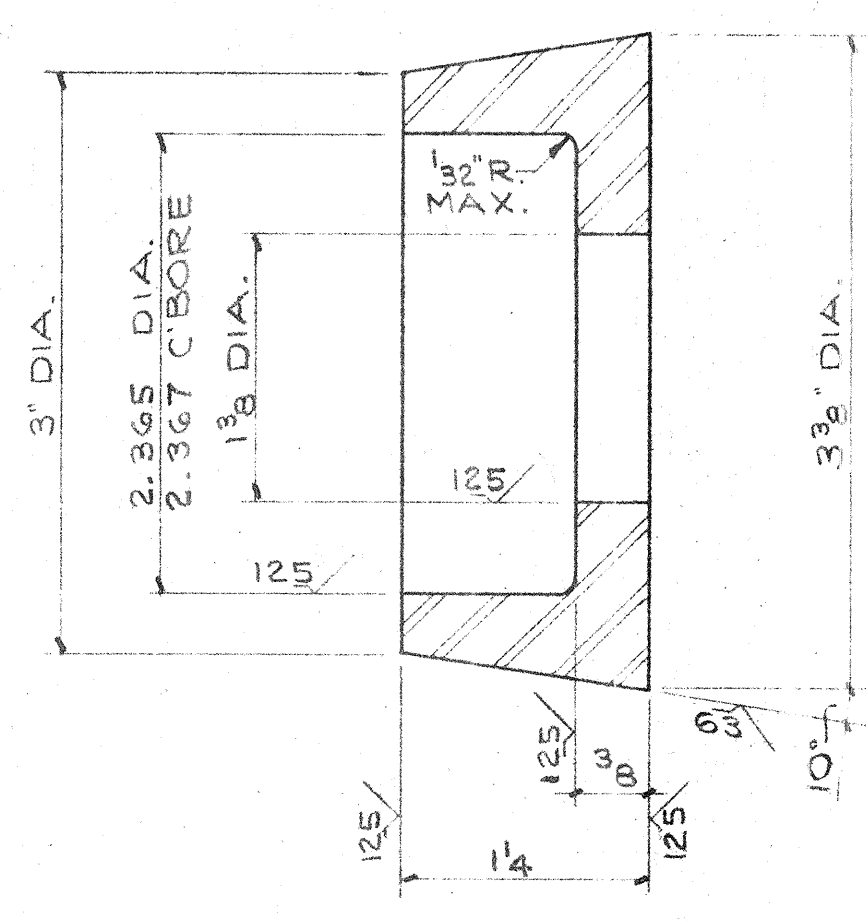
**DETAIL C**  
SCALE ~ 6" = 1'-0"



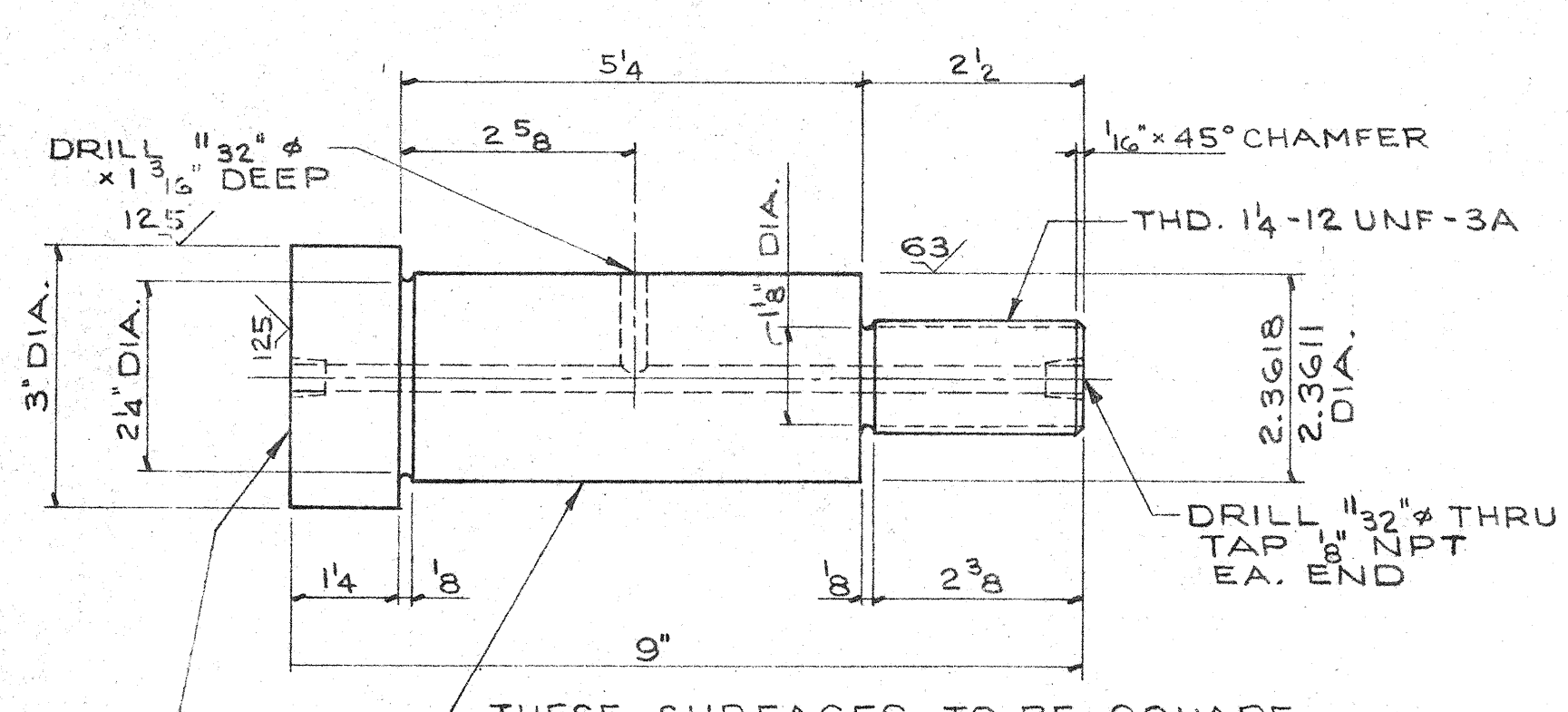
**WHEEL DETAIL**  
SCALE ~ 6" = 1'-0"



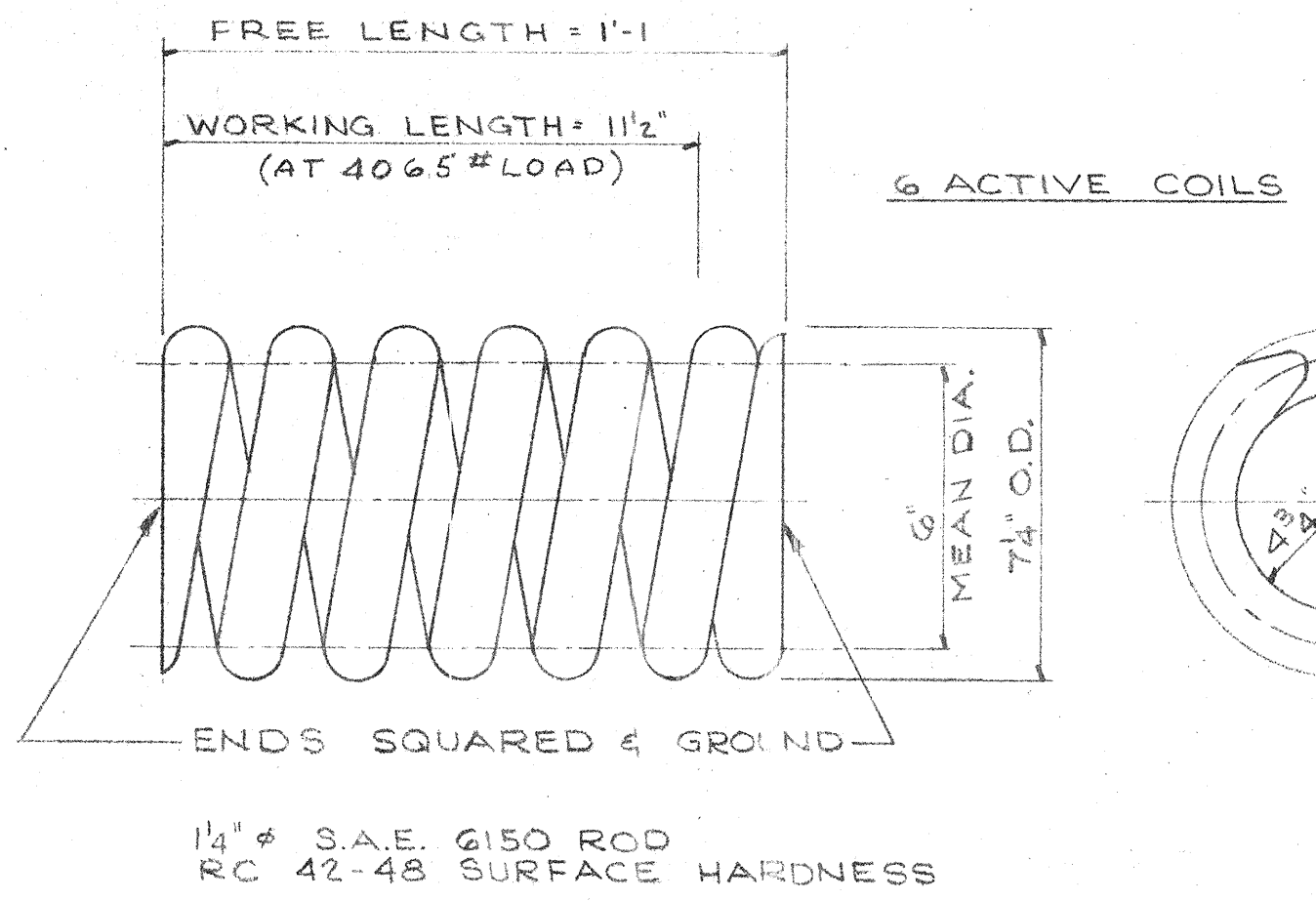
**BASE FRAME DETAIL**  
SCALE ~ 3" = 1'-0"



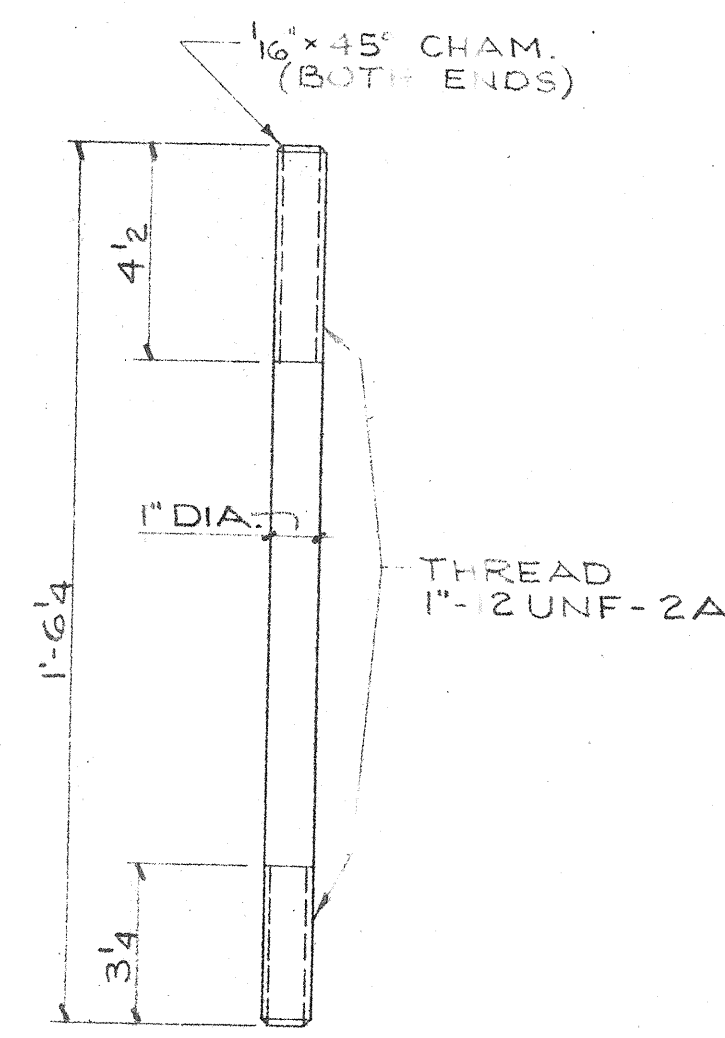
**ADAPTER DETAIL**  
SCALE ~ 12" = 1'-0"



**CONE WHEEL AXLE DETAIL**  
SCALE ~ 6" = 1'-0"



**SPRING DETAIL**  
SCALE ~ 6" = 1'-0"



**STUD DETAIL**  
SCALE ~ 3" = 1'-0"

DOME TRUCK-ASSEMBLY LIST			
ITEM NO	REQD	DETAIL NO	DESCRIPTION
1	2	A/D12	WHEEL
2	1	B/D12	BASE FRAME
3	2	C/D12	SPACER
4	2	D/D12	ADAPTER
5	2	E/D12	CONE WHEEL AXLE
6	1	F/D12	SPRING
7	2	G/D12	STUD
8	1	A/D13	MOUNTING HUB
9	1	B/D13	SPRING RETAINER
10	2	C/D13	HOLD DOWN HOOK
11	2	D/D13	SLEEVE NUT
12	1	E/D13	SPACER PLATE
13	4	F/D13	GUIDE WHEEL
14	4	G/D13	GUIDE WHEEL AXLE
15	4	H/D13	HEX ADJUSTMENT INSERT
16	4		BALL BEARING - SKF #G312 Z
17	2		1/4"-12UNF-3 STOP NUT - ESNA #52 E 202
18	2		1"-12 UNF-2B JAM NUT
19	6		1"-12 UNF-2B HEX NUT
20	4		1"-20UNC x 3 1/2" MACH. BOLT 1/2" HEX NUT
21	10		1"-NOM. LOCKWASHER
22	4		3/4"-16 UNF-3A x 3" SOCKET HD. CAP SCREW
23	3		3/4"-16 UNF-3A x 3" SOCKET SET SCREW - ROUNDED POINT NYLOCK M 75 FS 1214-4CN
24	4		3/8"-NOM. LOCKWASHER
25	8		5/8"-18 UNF-3A x 1" SOCKET SET SCREW - HALF DOG POINT NYLOCK M 75 FS 1018-16N
26	2		1/8" PTF SOCKET HEAD PIPE PLUG (DRY SEAL)
27	1		1/8" PTF ALEMITE LUBE FITTING #1610-B
28	2		1/8" PTF ALEMITE LUBE FITTING #1990
29	8		SNAP RING - WALDEZ TRU-ARC #5000-255
30	4		SNAP RING - WALDEZ TRU-ARC #5100-137
31	4		BALL BEARING - SKF #G207 2RS
32			

**NOTE:**  
ASSEMBLY LIST IS FOR ONE TRUCK.  
THERE ARE 10 TRUCK ASSEMBLIES REQ'D.  
SEE SHEET NO D11 FOR ASSEMBLY DRAWING

**GENERAL NOTES:**  
1. FRACTIONAL DIM. TOLERANCE = ±.04"  
2. DECIMAL DIM. TOLERANCE - AS SHOWN  
3. REMOVE BURRS & BREAK SHARP EDGES.

REGISTERED PROFESSIONAL ARCHITECT (C.V.H.)  
JUNIOR ARCHITECT  
WILLIAM WILDE  
151 SOUTH TUCSON BOULEVARD • TUCSON, ARIZONA • EA 5-3373  
DEC. 31, 1961  
ARIZONA

REGISTERED ARCHITECT  
WILLIAM WILDE  
151 SOUTH TUCSON BOULEVARD • TUCSON, ARIZONA • EA 5-3373  
DEC. 31, 1961  
ARIZONA

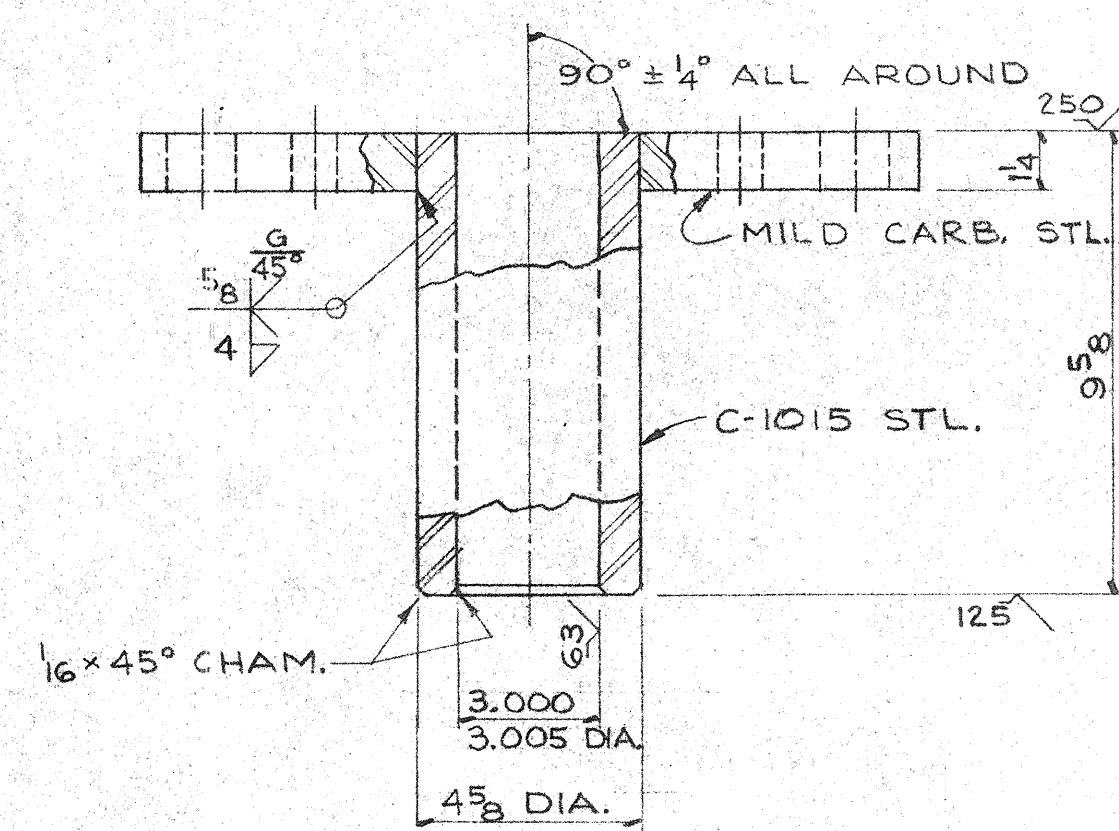
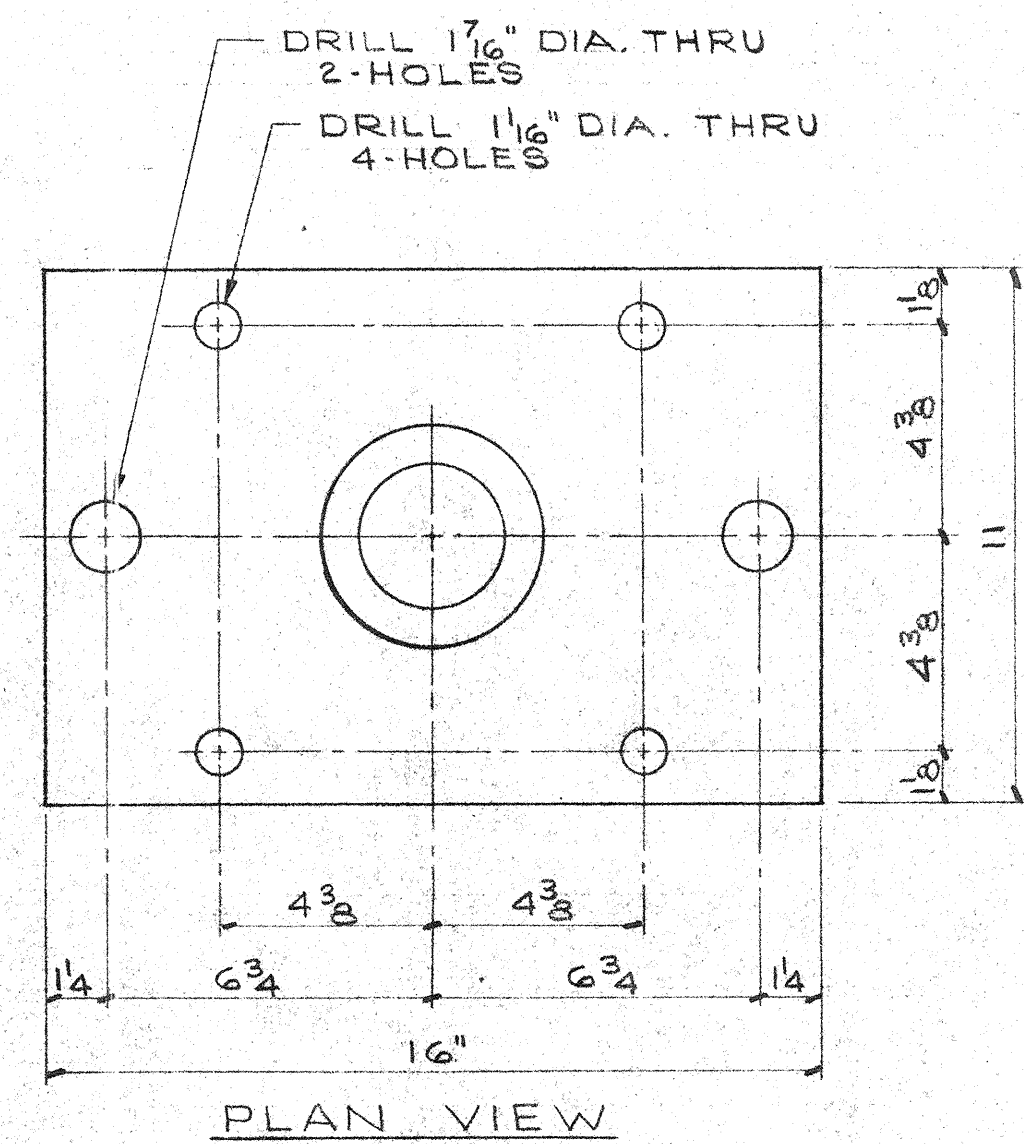
**WILLIAM WILDE ARCHITECT - AIA**  
ARCHITECTURE • INDUSTRIAL DESIGN • SPACE PLANNING  
151 SOUTH TUCSON BOULEVARD • TUCSON, ARIZONA • EA 5-3373  
THIS DRAWING IS INSTRUMENT OF ARCHITECTURE. SERVICE IS THE PROPERTY OF WILLIAM WILDE. IT CAN BE USED ONLY WITH HIS PERMISSION FOR PURPOSES EXPRESSLY INTENDED. AFTER WHICH IT SHALL BE RETURNED TO HIS OFFICE.

STEWART OBSERVATORY  
UNIVERSITY OF ARIZONA  
KIT PEAK

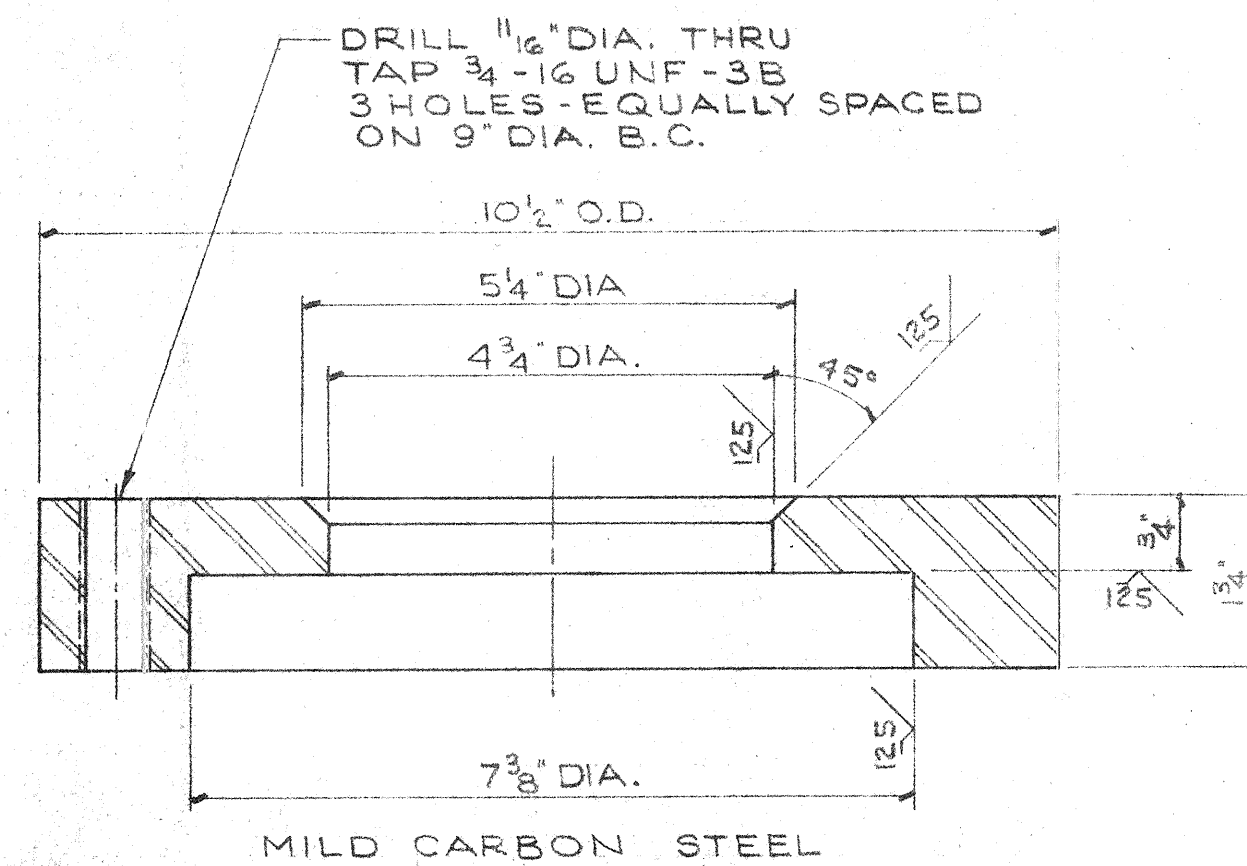
DOME TRUCK  
ASSEMBLY LIST  
& DETAILS

ISSUE DATE  
10-2-61  
COMMISSION  
6-1859

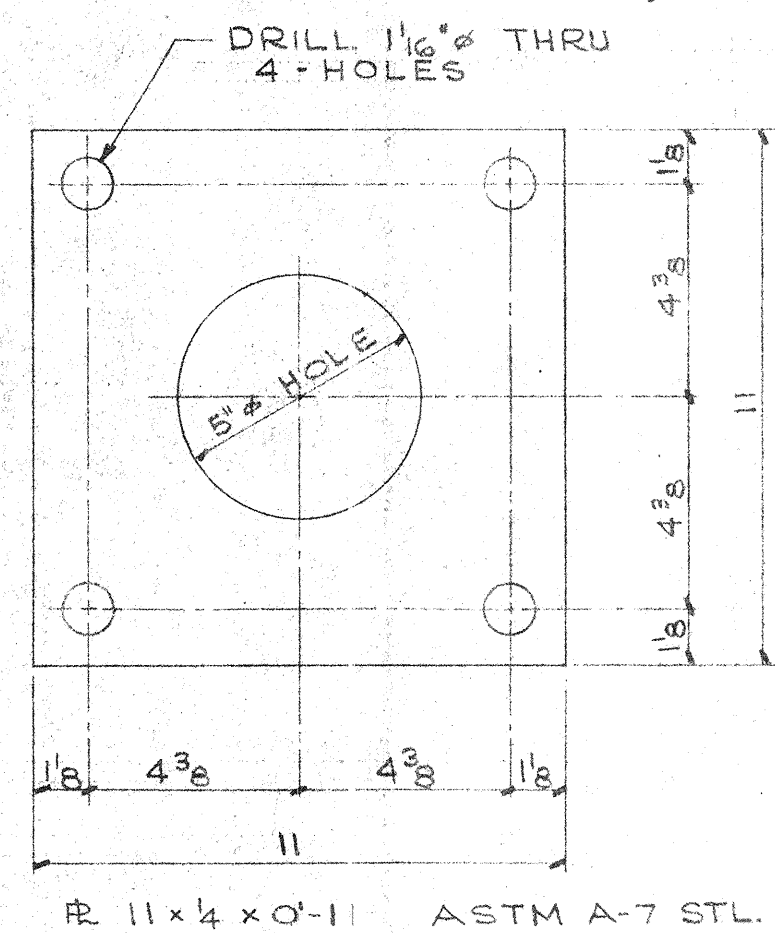
**D12**



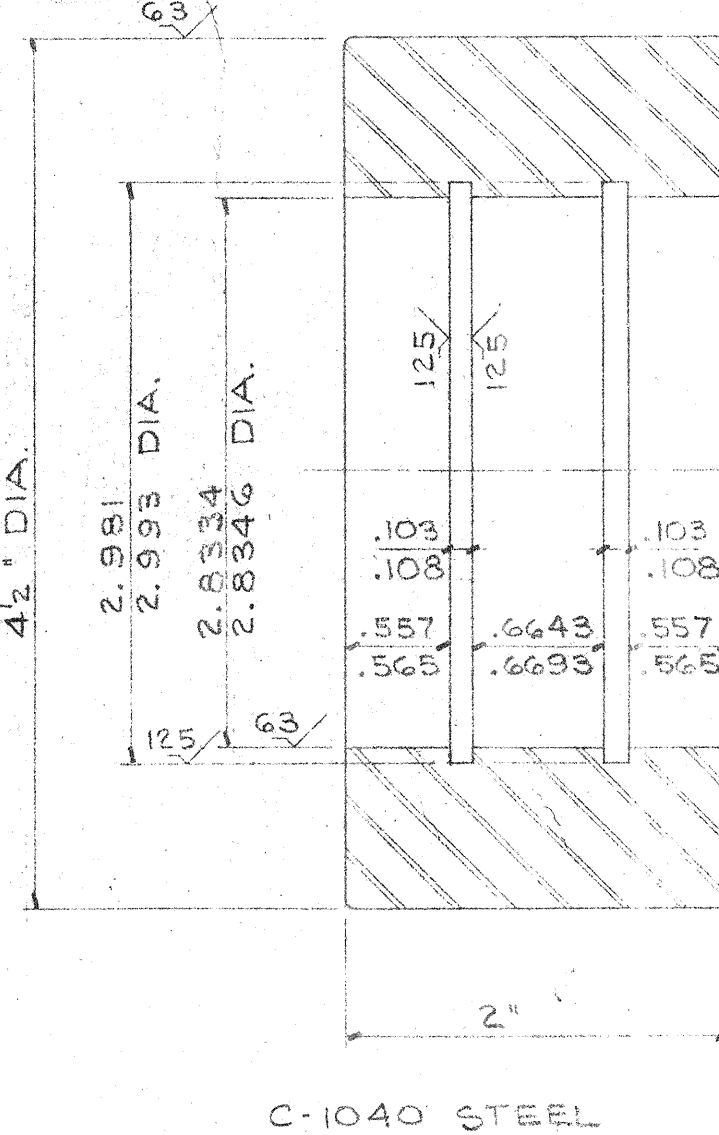
**MOUNTING HUB**  
DETAIL (A)  
SCALE ~ 3" = 1'-0" (D13)



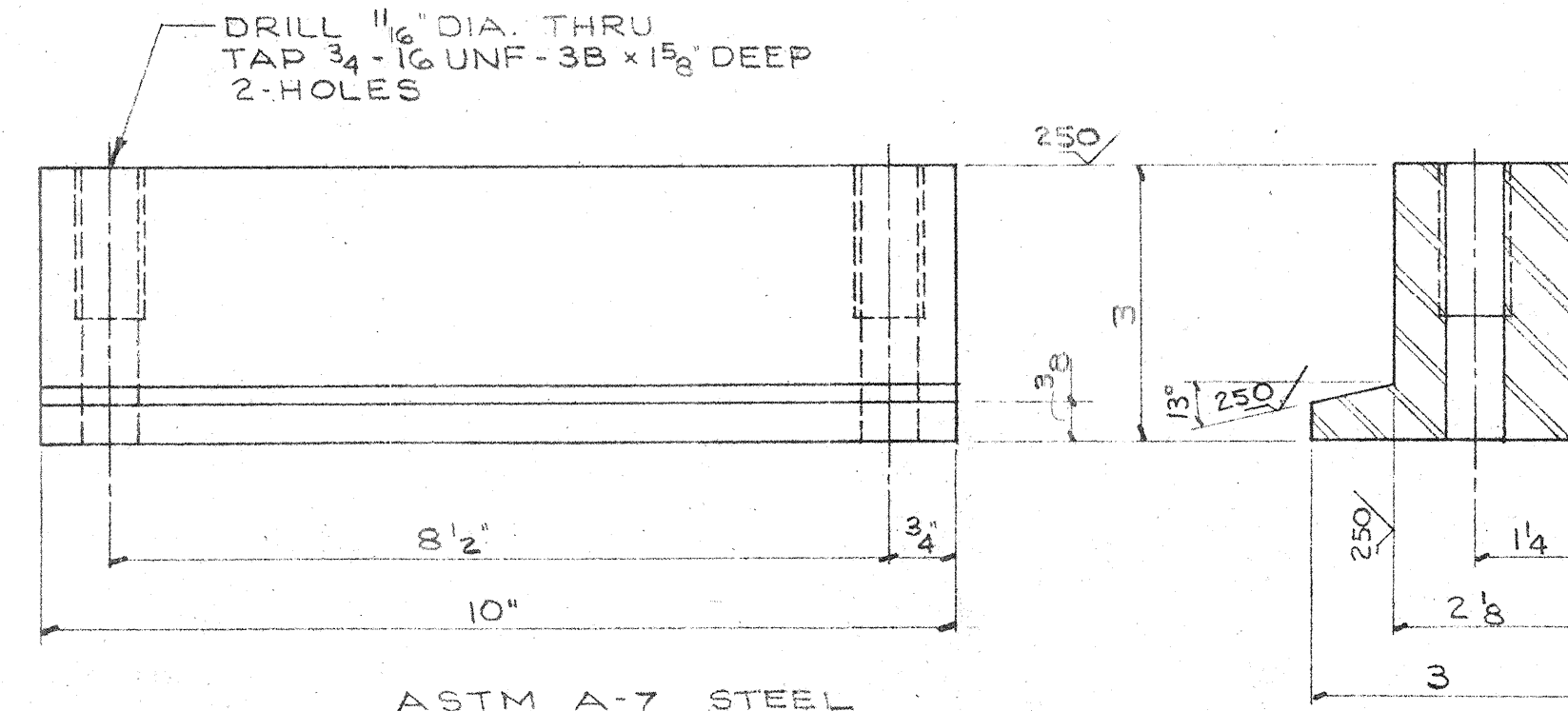
**SPRING RETAINER**  
DETAIL (B)  
SCALE ~ 6" = 1'-0" (D13)



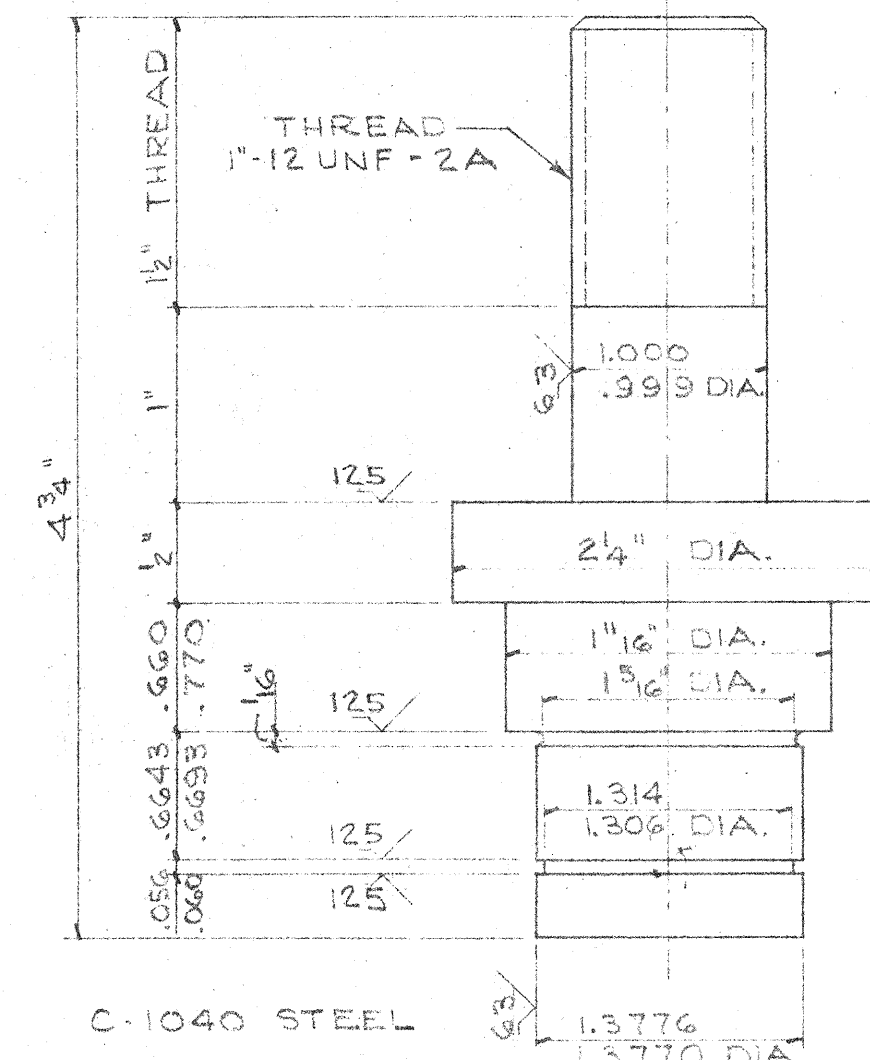
**SPACER PLATE**  
DETAIL (E)  
SCALE ~ 3" = 1'-0" (D13)



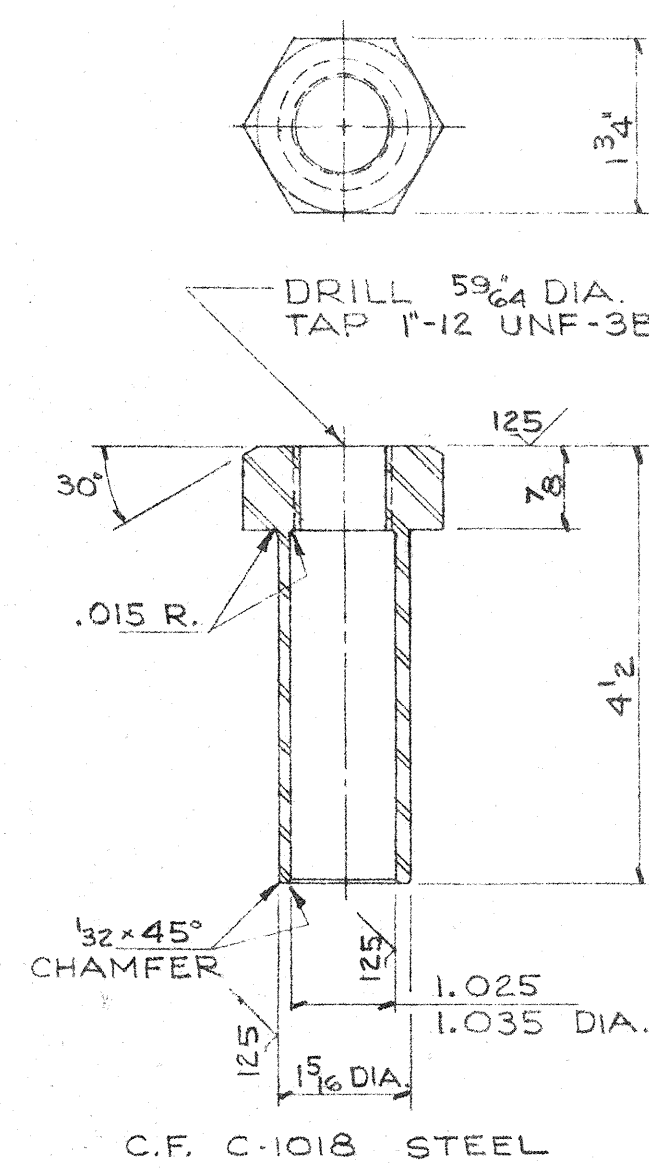
**GUIDE WHEEL**  
DETAIL (F)  
SCALE ~ 12" = 1'-0" (D13)



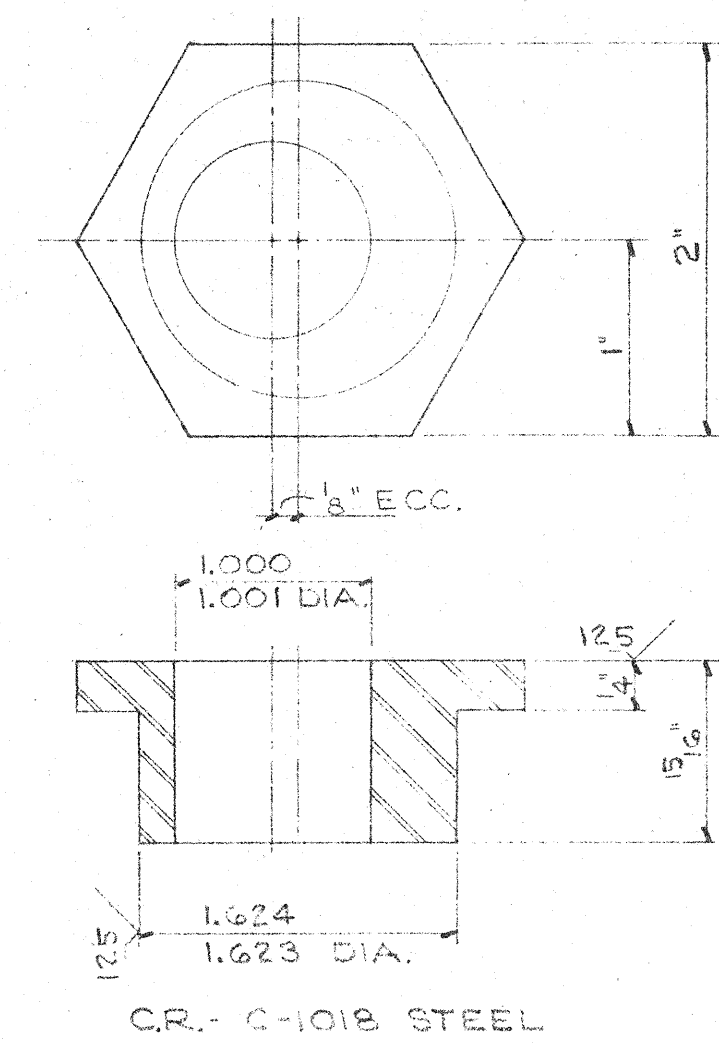
**HOLD DOWN HOOK**  
DETAIL (C)  
SCALE ~ 6" = 1'-0" (D13)



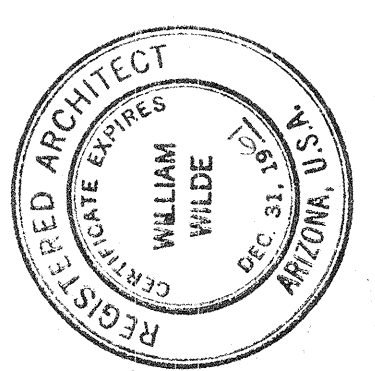
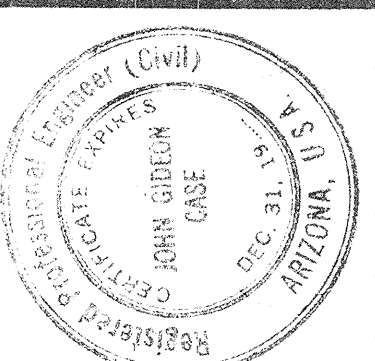
**GUIDE WHEEL AXLE**  
DETAIL (G)  
SCALE ~ 12" = 1'-0" (D13)



**SLEEVE NUT**  
DETAIL (D)  
SCALE ~ 6" = 1'-0" (D13)



**HEX ADJUSTMENT INSERT**  
DETAIL (H)  
SCALE ~ 12" = 1'-0" (D13)



**WILLIAM WILDE ARCHITECT - AIA**  
ARCHITECTURE - INDUSTRIAL DESIGN - SPACE PLANNING  
151 SOUTH TUCSON BOULEVARD - TUCSON, ARIZONA - EA 5-3373

**STEWART OBSERVATORY**  
**UNIVERSITY OF ARIZONA**  
**KITT PEAK**

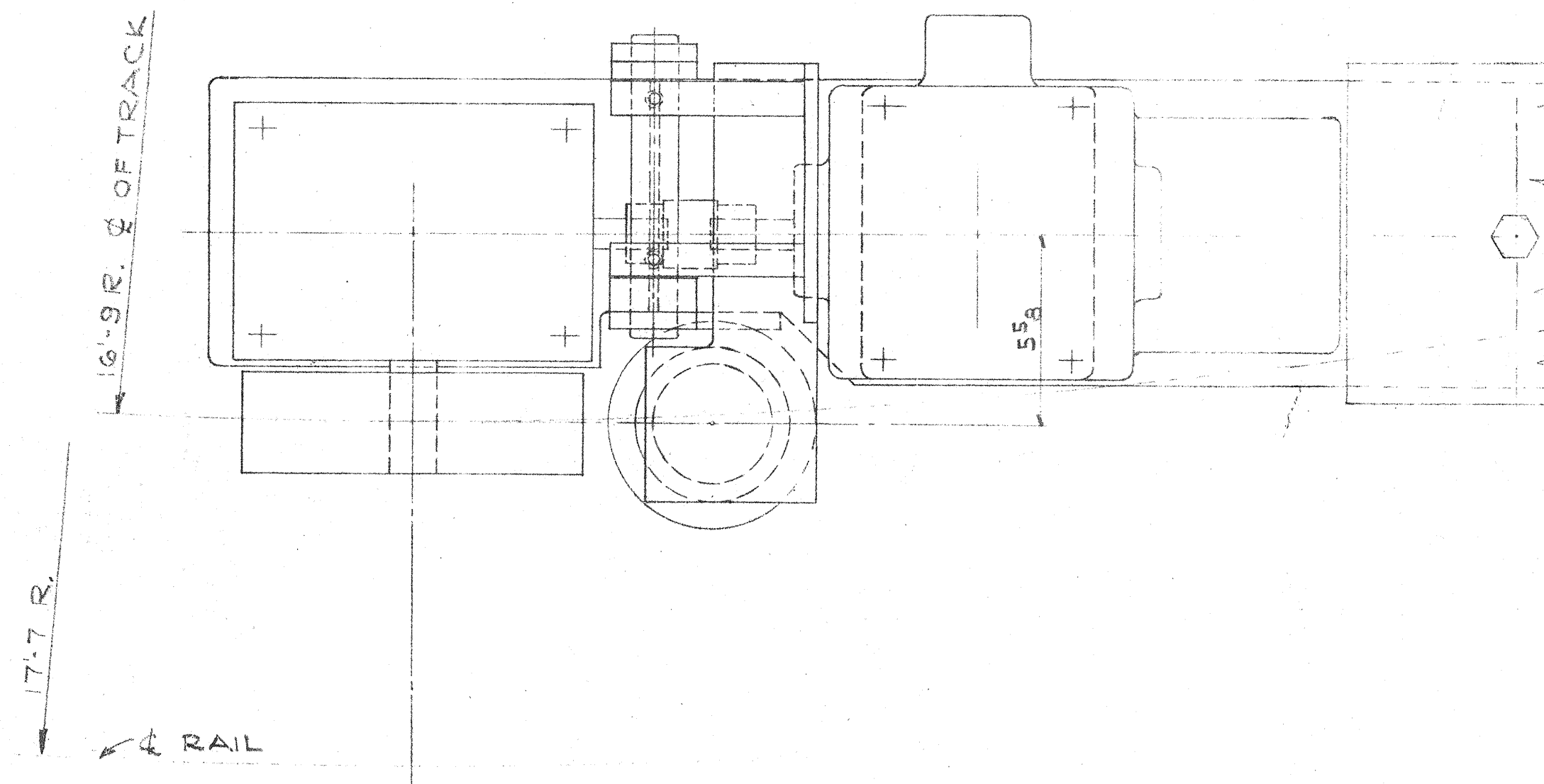
**DOMESTRUCK**  
**DETAILS**

DRAWING  
ISSUE DATE  
10-9-61  
COMMISSION  
6-1859  
**D13**



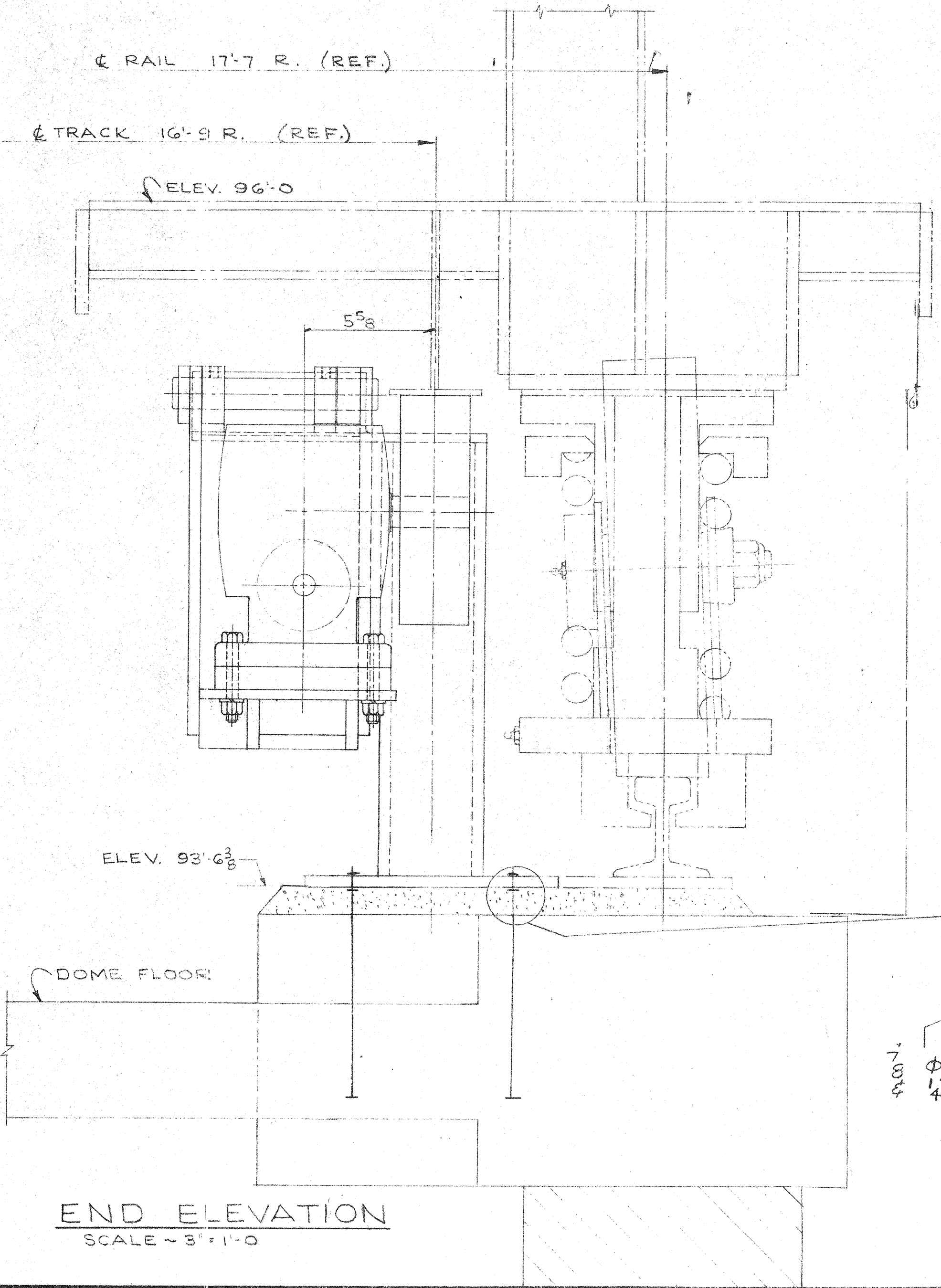
DOME DRIVE - ASSEMBLY LIST

ITEM N <sup>o</sup>	N <sup>o</sup> REQD.	DETAIL N <sup>o</sup>	DESCRIPTION
1	1	A/DIS	BASE FRAME
2	1	B/DIS	DOME DRIVE SUPPORT
3	8	C/DIS	COUNTERWEIGHT (1")
4	2	D/DIS	DO (1/2)
5	1	E/DIS	HINGE PIN
6	1	F/DIS	DRIVE WHEEL - 'SASSICK' ONCORE
7			WHEEL # WR-6720 - REMOVE
8			ROLLER BEARING & REPLACE W/ B. 2116
9			
10			
11	1		G.E. MOTOR 3/4 H.P., 900 R.P.M. 220/240 V., 60., 3 PHASE, FRAME # 184 DRIPPROOF SIMILAR TO MODEL # 5 KR 184 AG 601 WITH # H-54 STEARNS BRAKE
15	1		GEAR REDUCTOR - BOSTON # T132-60 TO 1 RATIO
16	1		COUPLING - BOSTON # FCBB20-3 # 3/8" KEY B.E.
17	2		1 3/8" x 1 1/2" x 0.725" SHIM STACK
18			
19			
20	1		3/4" x 11" LG. MACHINE BOLT W/H.N. & L.W.
21	4		1/2" x 3 1/2" LG. MACHINE BOLT W/H.N. & L.W.
22	4		3/8" x 2" LG. MACHINE BOLT W/H.N. & L.W.
23			
24	2		3/8" - 24 UNF - 3A x 5 1/8" LG. SOCKET SET SCREW W/ CONE POINT
25	1		1/2" - 20 UNF - 2A SOL. HD. SET SCR. CONE POINT
26			
27			
28			

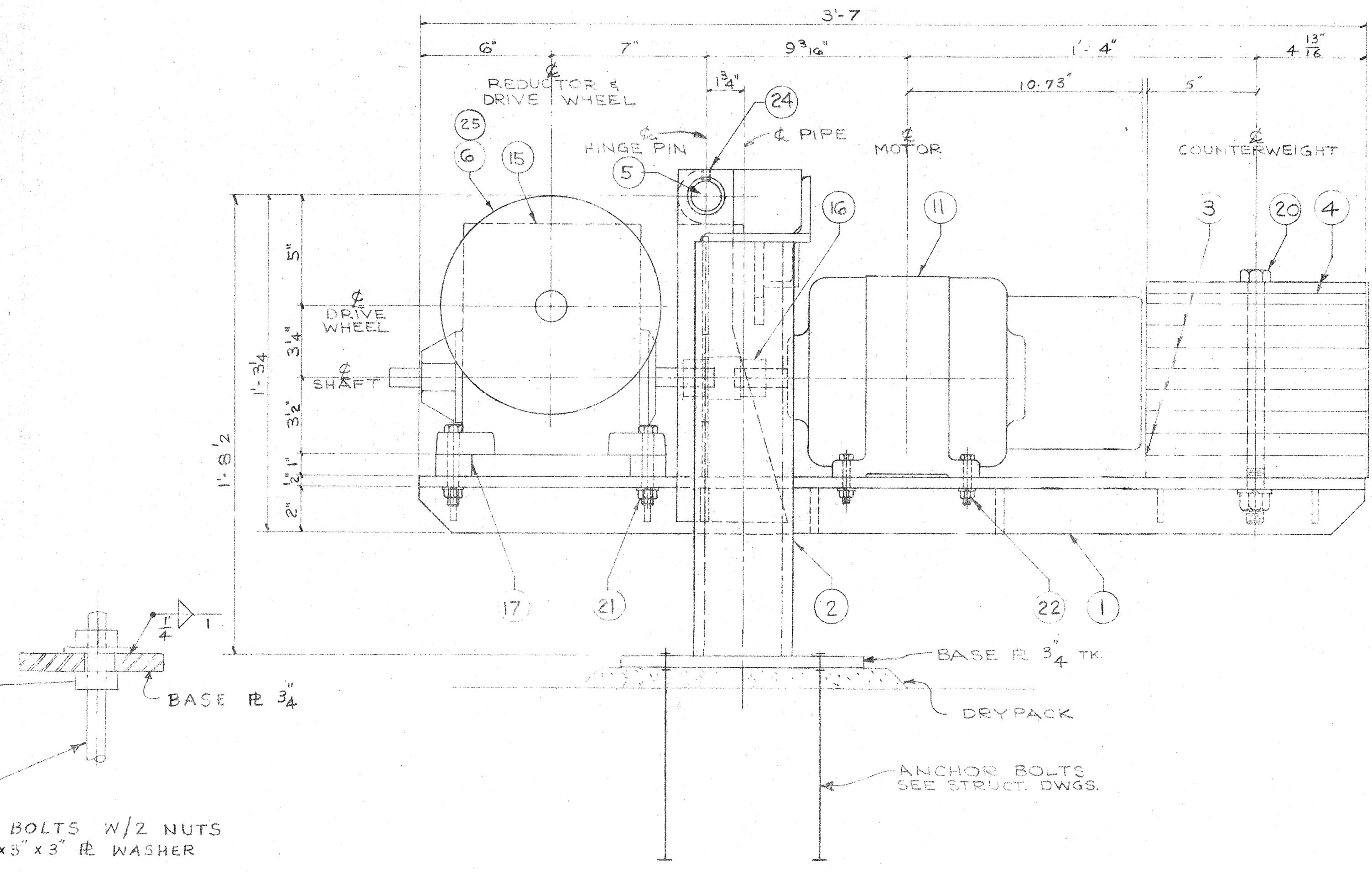


PLAN VIEW  
SCALE - 3" = 1'-0"

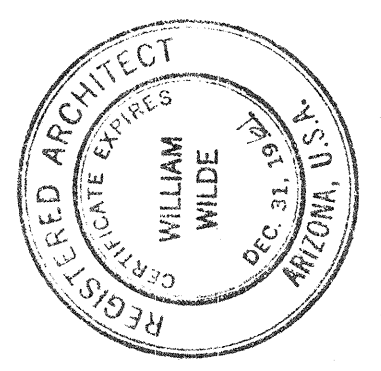
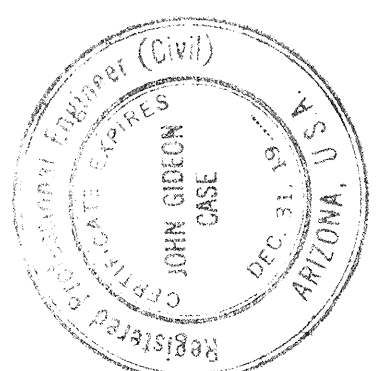
NOTE!  
ASSEMBLY LIST IS FOR ONE DOME DRIVE,  
THERE ARE TWO DOME DRIVE ASSEMBLIES REQD.



END ELEVATION  
SCALE - 3" = 1'-0"



DOME DRIVE ASSEMBLY - 2 REQD.  
SCALE - 3" = 1'-0"  
FOR LOCATION - SEE STRUCT. DRAWINGS

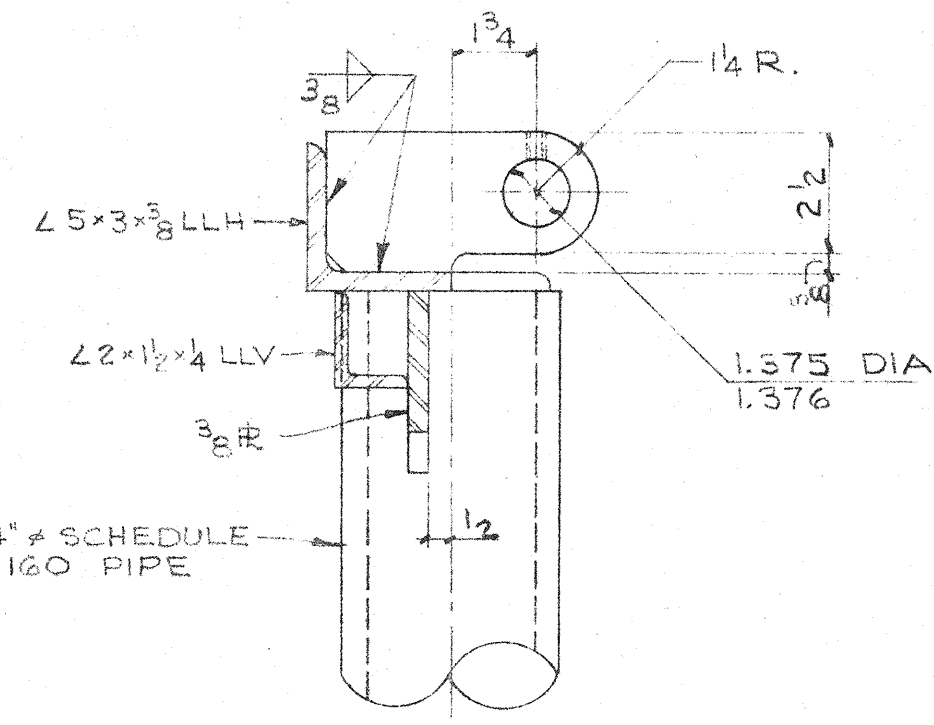
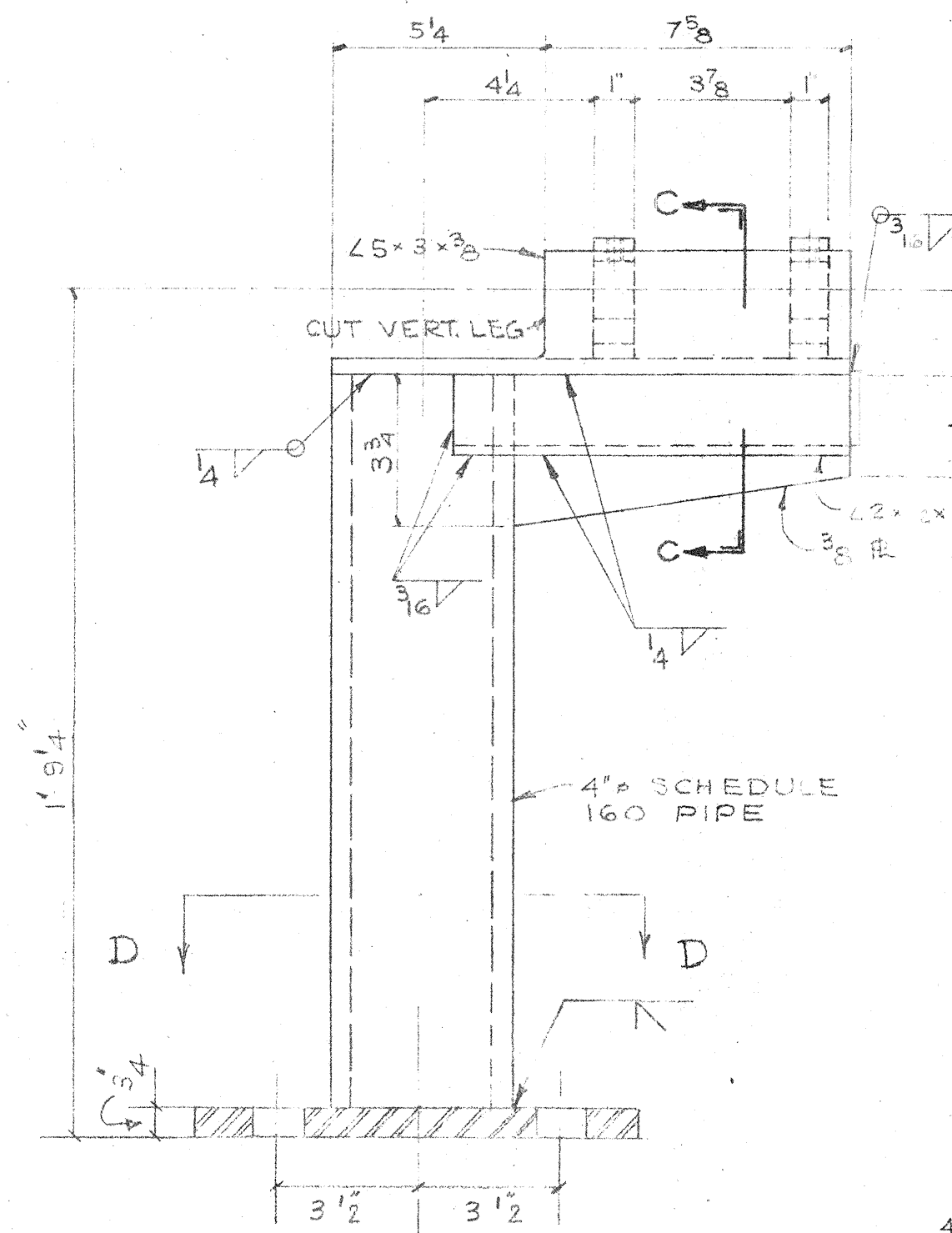
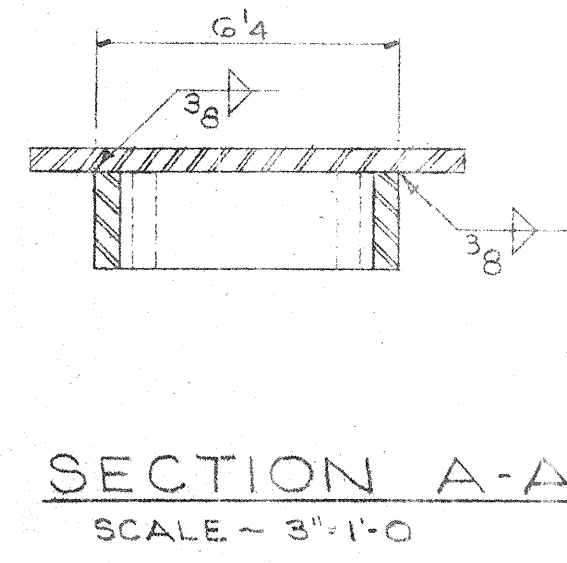
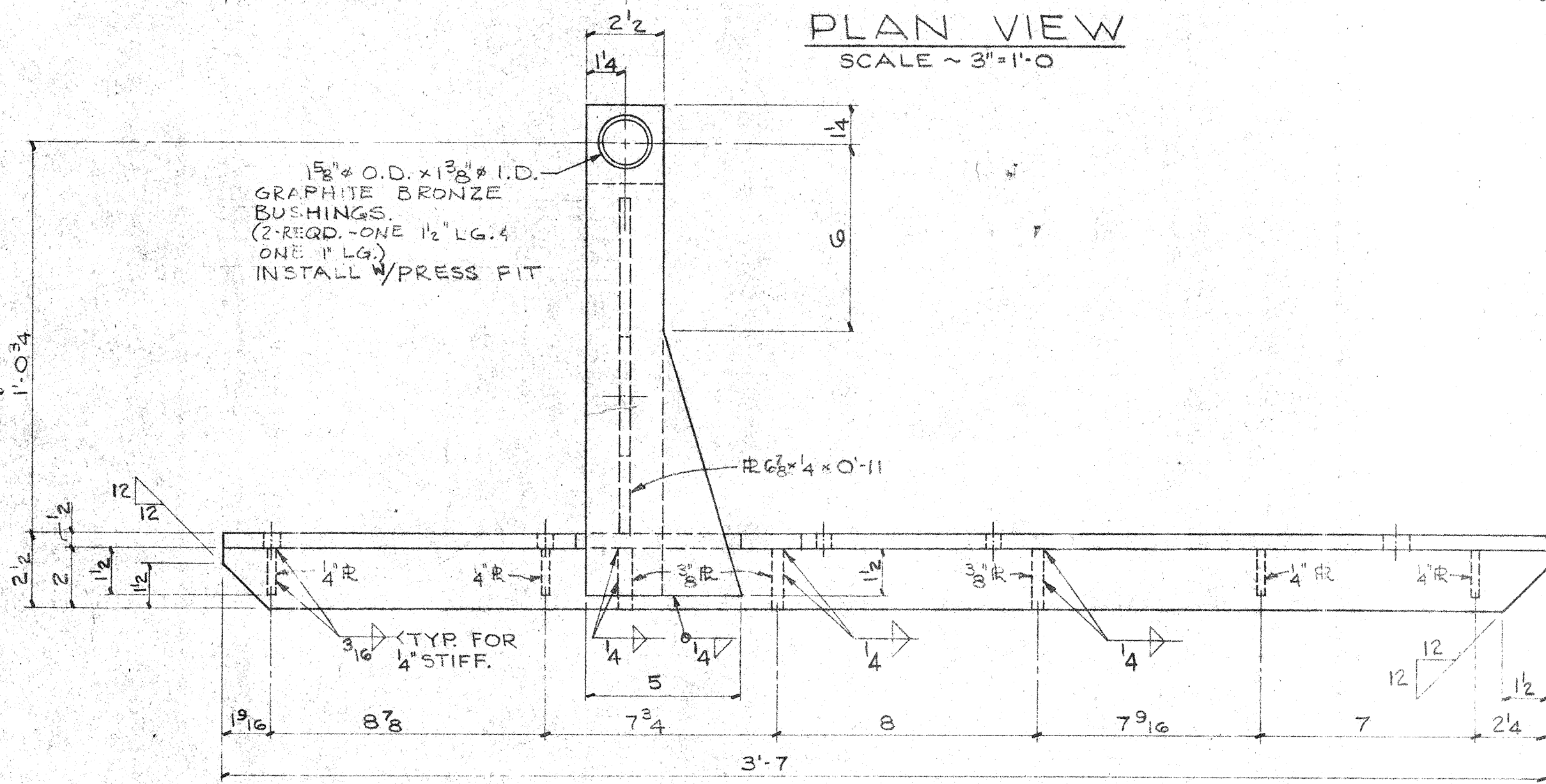
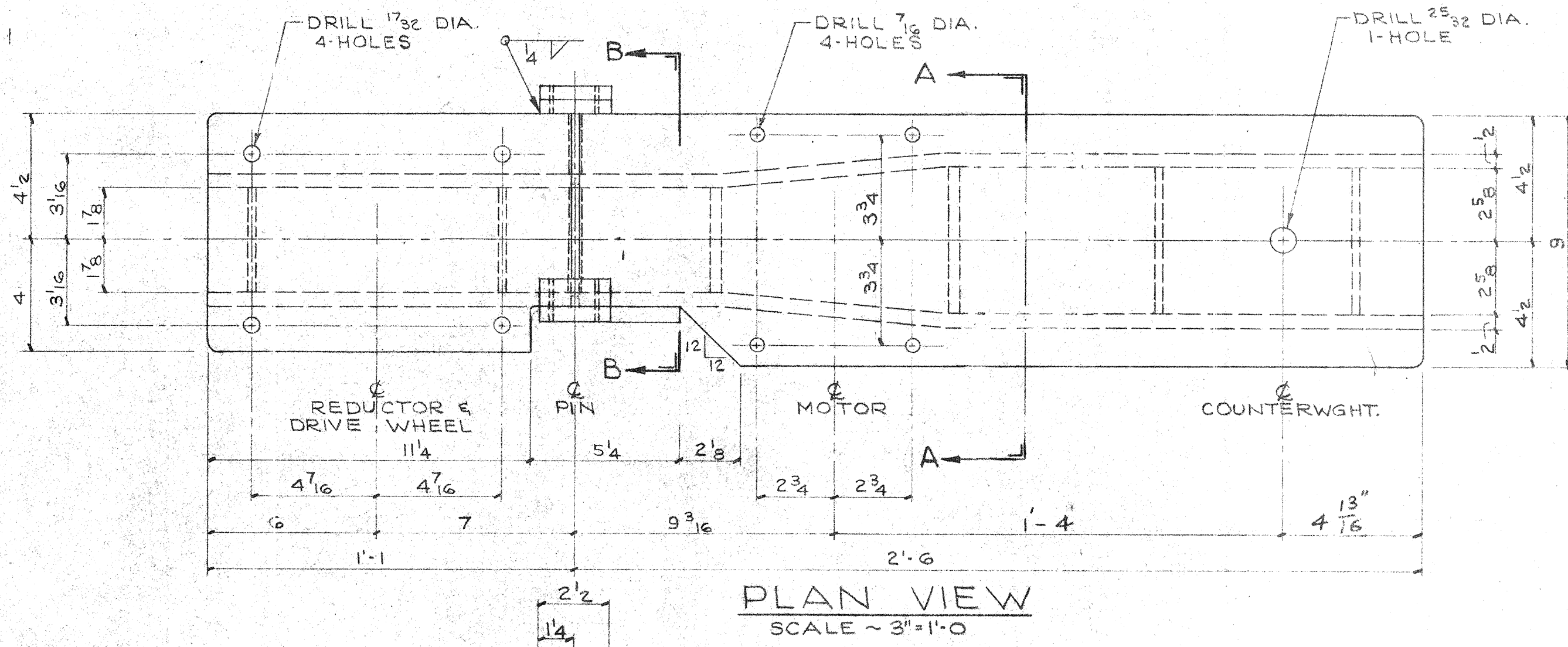


**WILLIAM WILDE - ARCHITECT - AIA**  
ARCHITECTURE - INDUSTRIAL DESIGN - SPACE PLANNING  
151 SOUTH TUCSON BOULEVARD - TUCSON, ARIZONA - EA 5-3373

STEWART OBSERVATORY  
UNIVERSITY OF ARIZONA  
KITT PEAK

DOME DRIVE  
ASSEMBLY

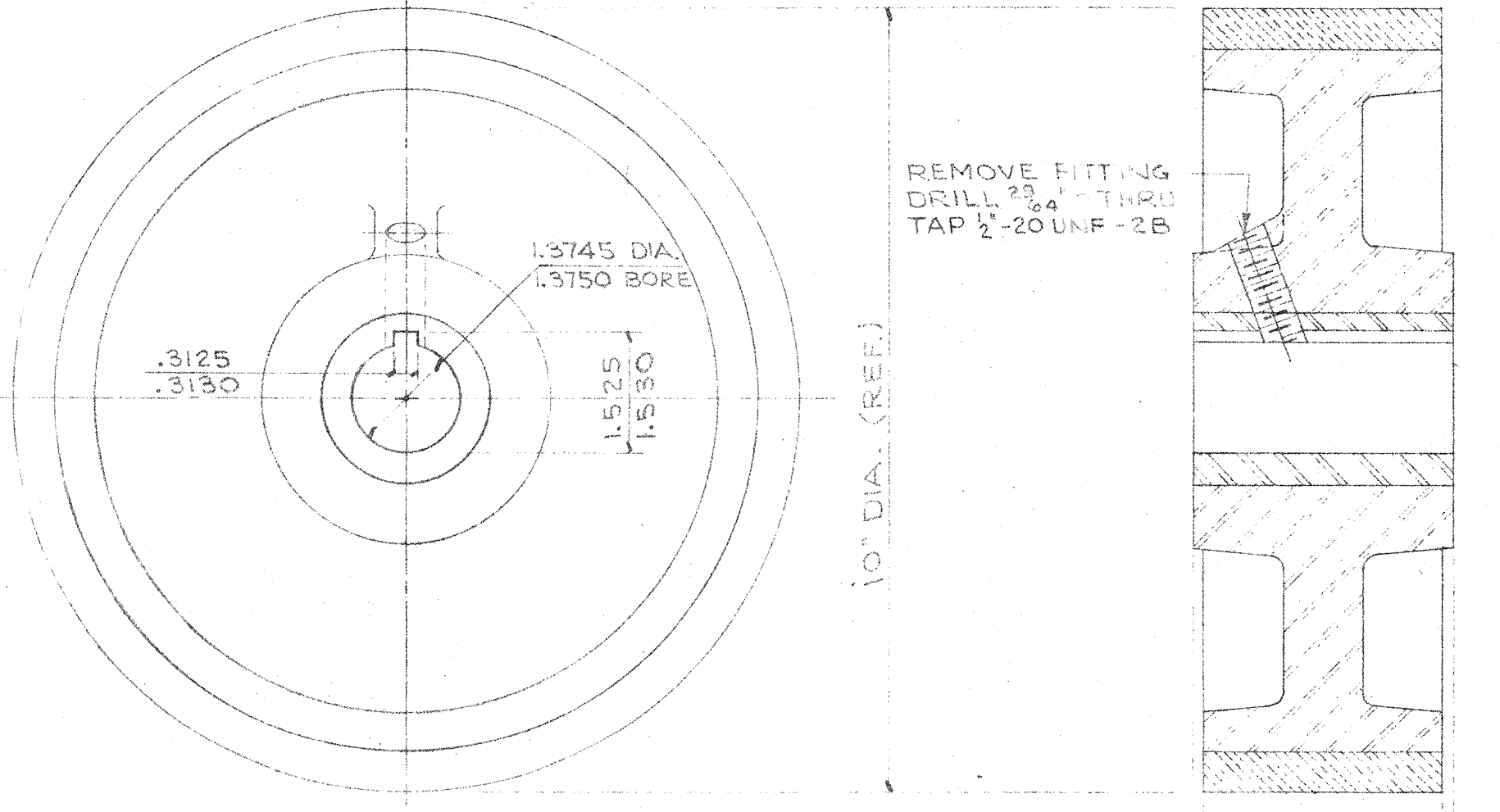
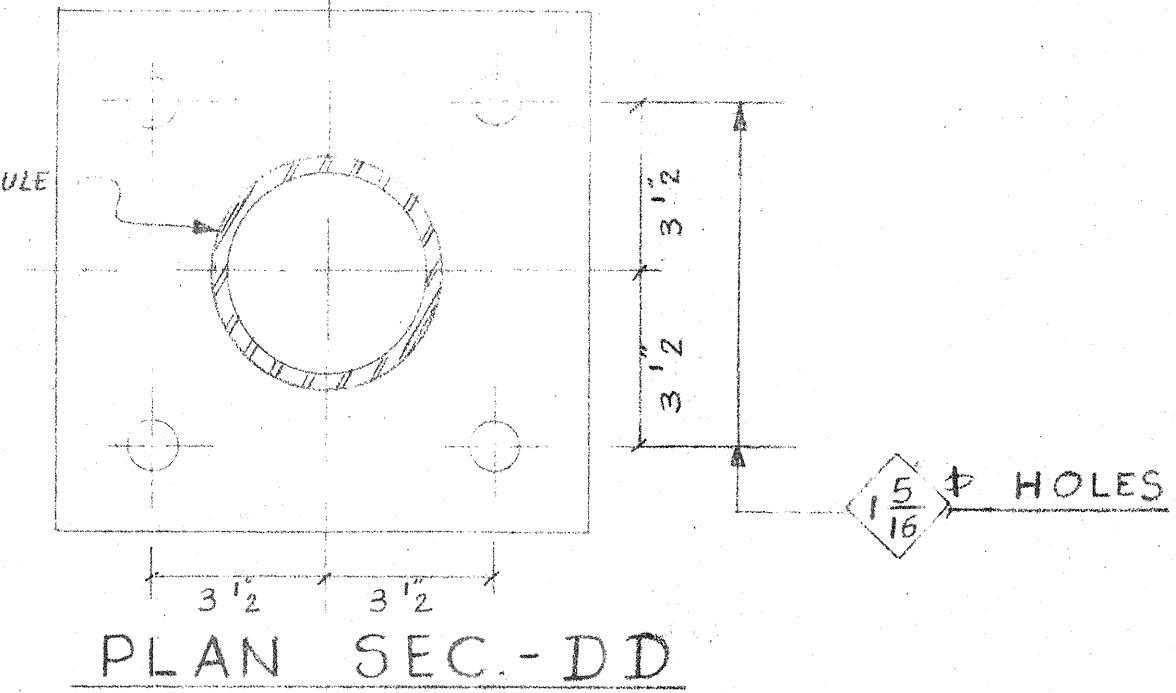
DRAWING  
ISSUE DATE  
10-2-61  
COMMISSION  
10-18-57  
**D14**



PLAN VIEW SCALE ~ 3"=1'-0"

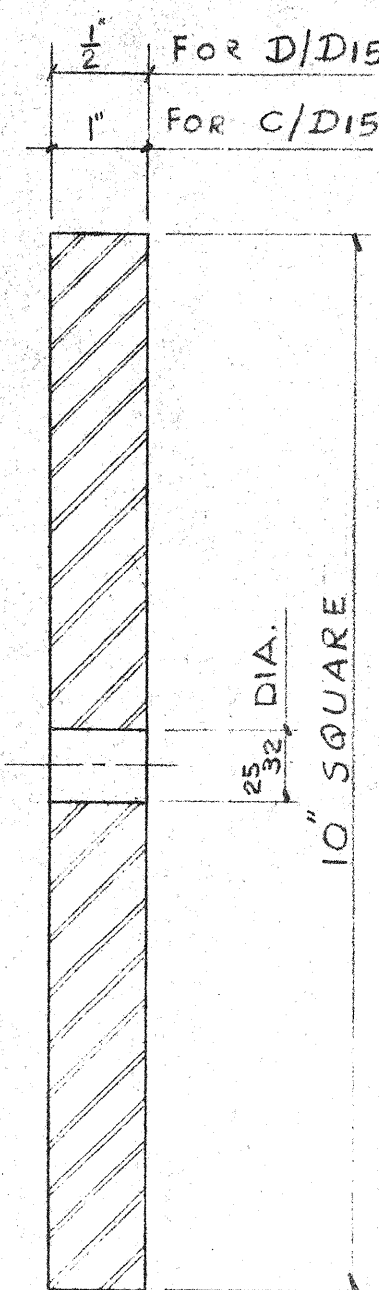
SECTION C-C SCALE ~ 3"=1'-0"

DOME DRIVE SUPPORT DETAIL SCALE ~ 3"=1'-0"

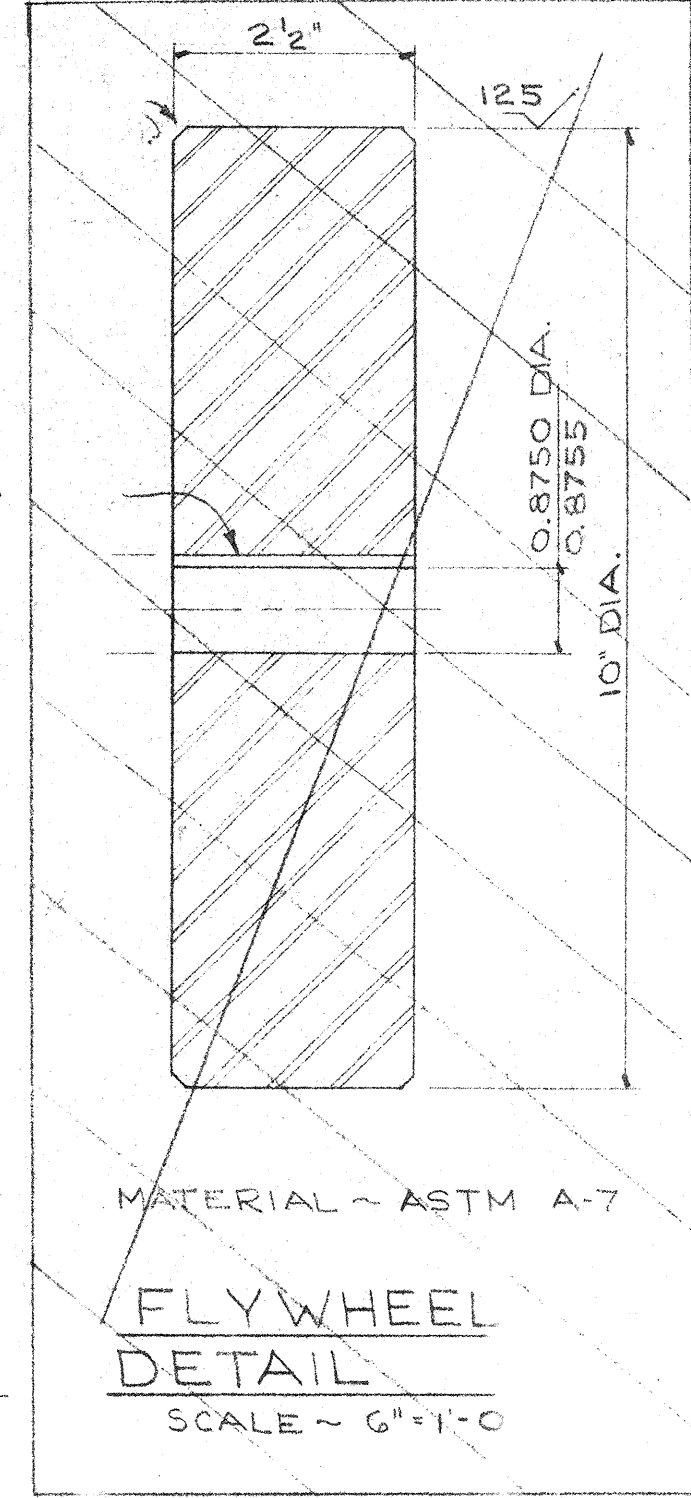


DRIVE WHEEL DETAIL SCALE ~ 6"=1'-0"

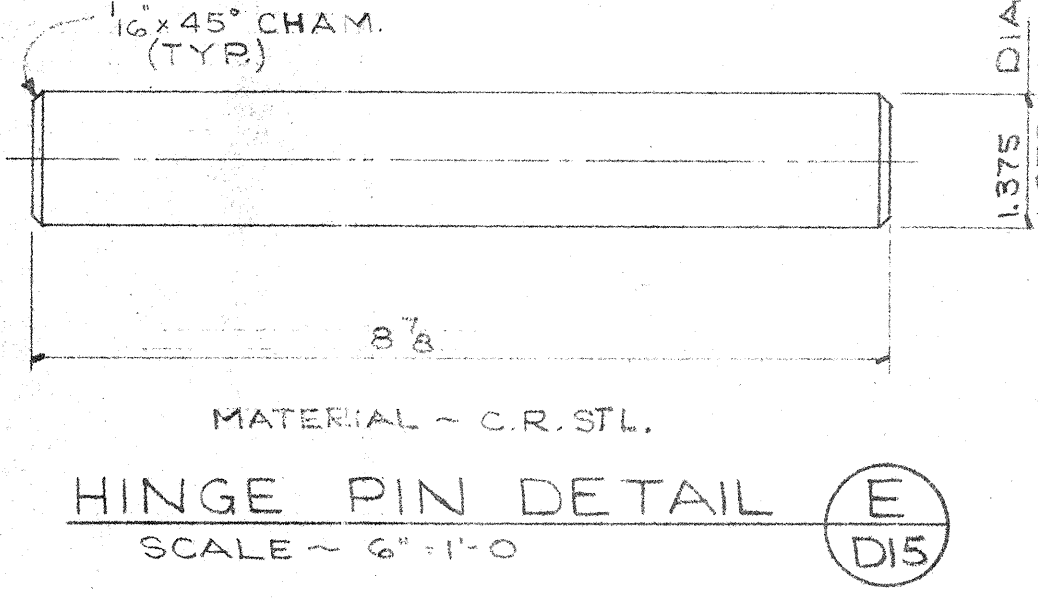
BASE DETAIL SCALE ~ 3"=1'-0"



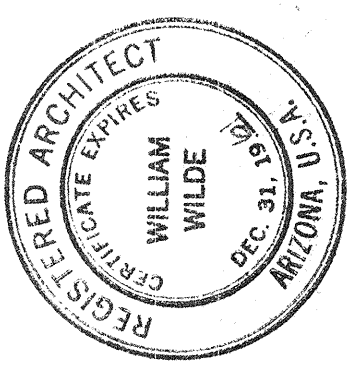
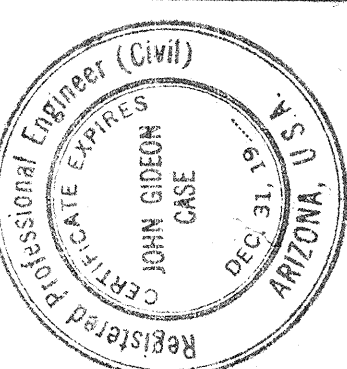
COUNTERWEIGHT DETAIL SCALE ~ 6"=1'-0"



FLYWHEEL DETAIL SCALE ~ 6"=1'-0"



HINGE PIN DETAIL SCALE ~ 6"=1'-0"



**WILLIAM WILDE ARCHITECT AIA**  
ARCHITECTURE • INDUSTRIAL DESIGN • SPACE PLANNING  
151 SOUTH TUCSON BOULEVARD • TUCSON, ARIZONA • EA 5-3373  
THIS OFFICE IS AN INSTRUMENT OF ARCHITECT'S SERVICE IS THE PROPERTY OF WILLIAM WILDE. IT CAN BE USED ONLY WITH THE PERMISSION OF PURPOSE, LICENSE, RESERVATION, AFTER WHICH IT SHALL BE RETURNED TO HIS OFFICE.

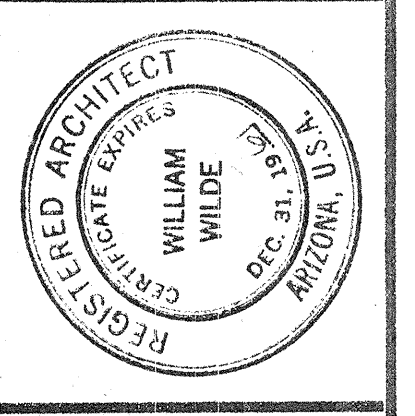
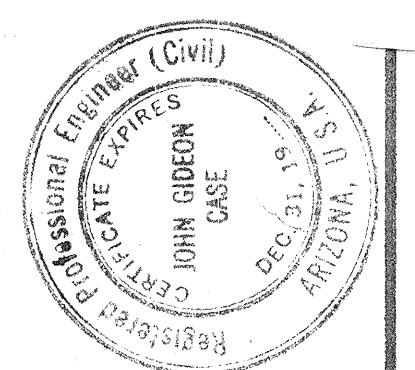
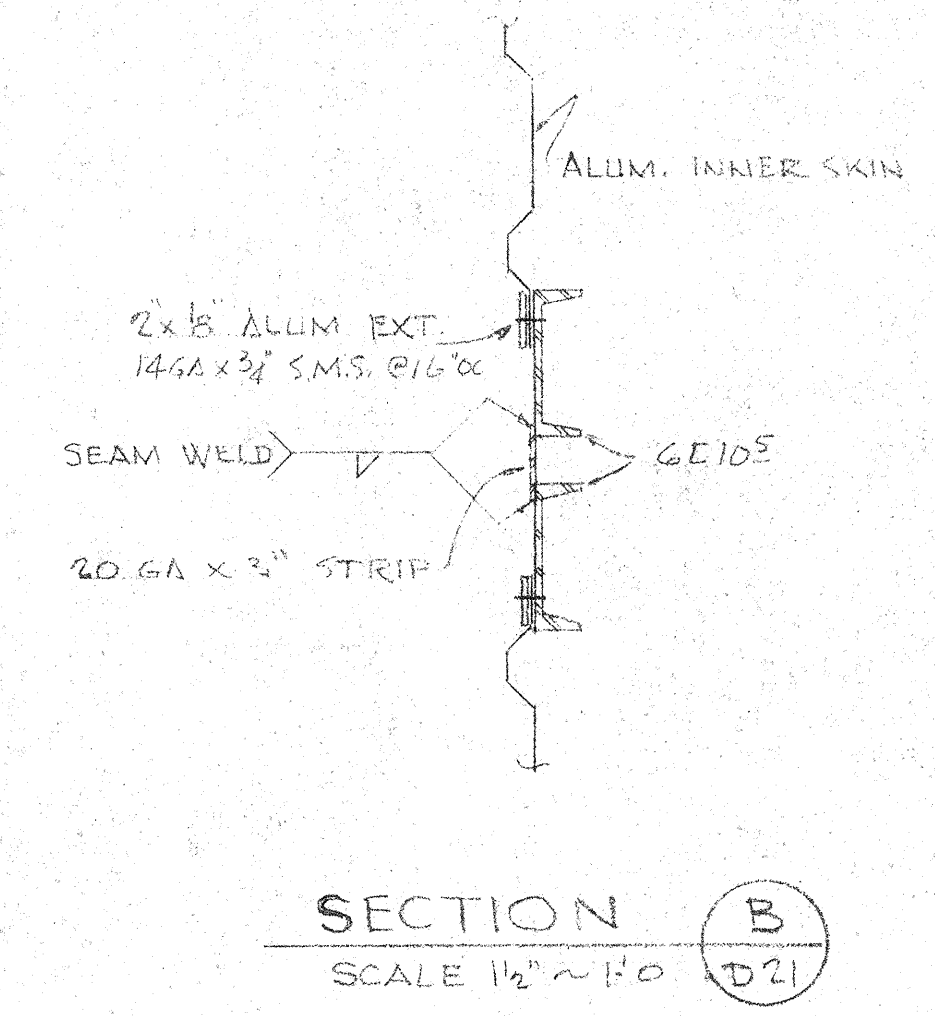
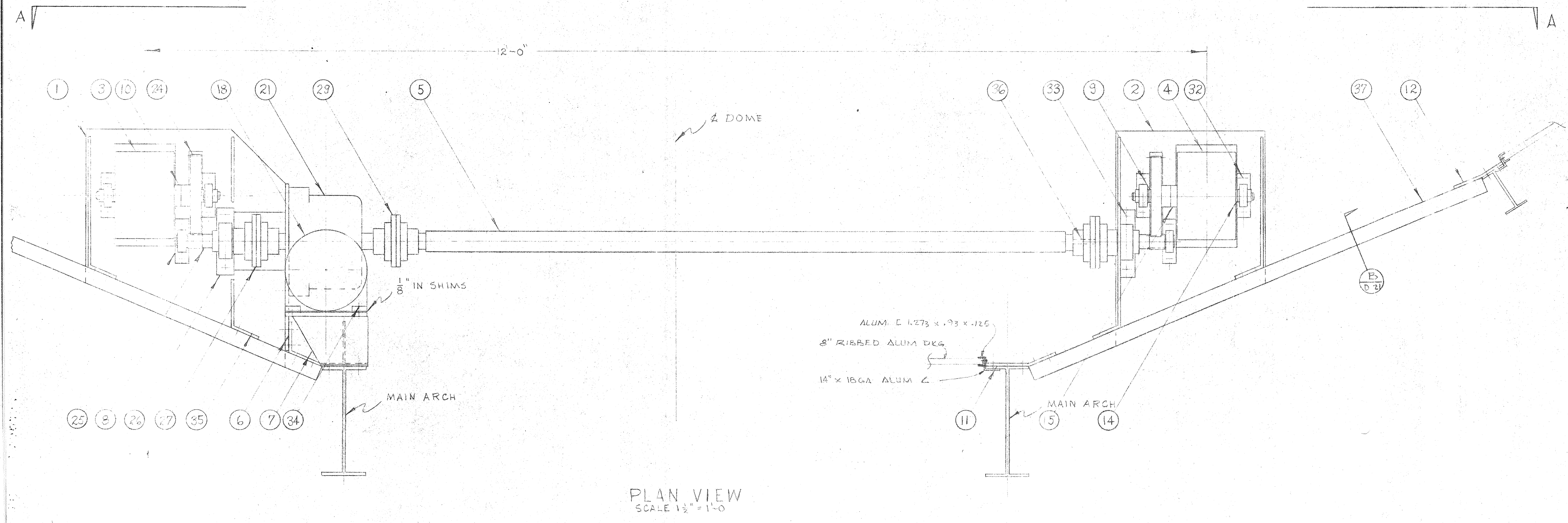
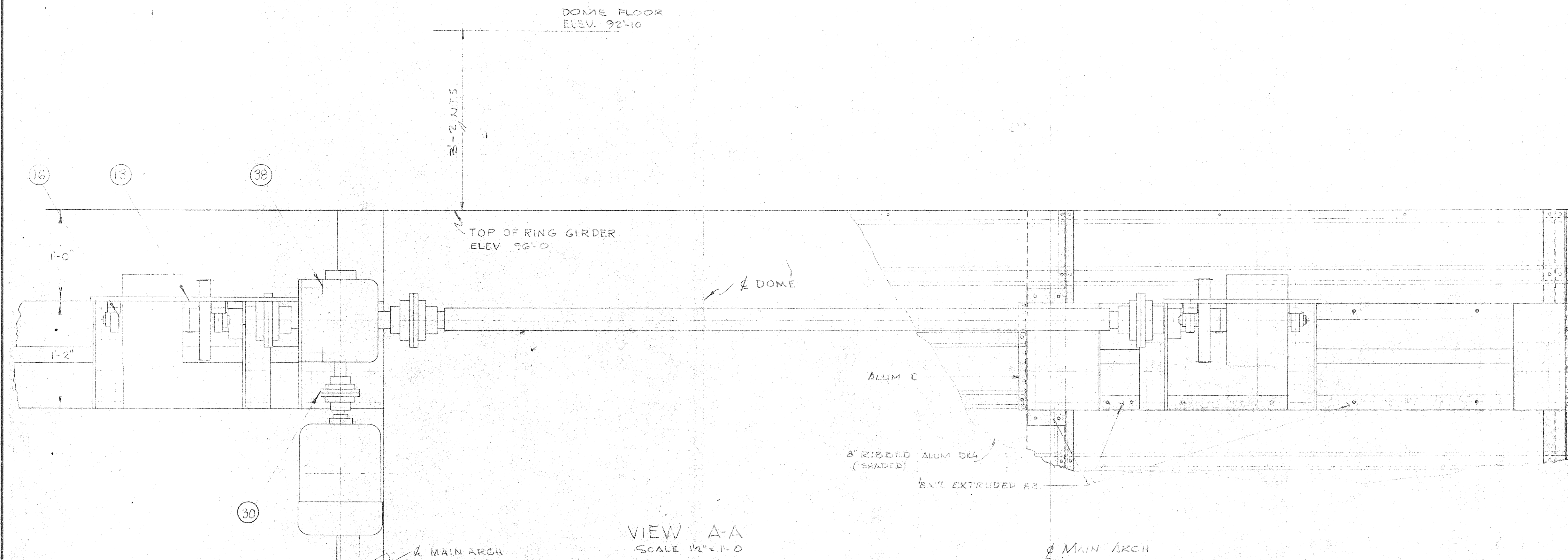
STEWART OBSERVATORY  
UNIVERSITY OF ARIZONA  
KITT PEAK

DOME DRIVE  
DETAILS

ISSUE DATE 10-2-61  
COMMISSION 6-1529  
**D15**

PLATFORM HOIST - ASSEMBLY LIST

ITEM NO.	NO. REQD.	DETAIL NO.	DESCRIPTION
1	1	A/D-22	GEAR BOX & DRUM FRAME
2	1	B/D-22	DRUM FRAME
3	1	C/D-23	LEFT DRUM
4	1	D/D-23	RIGHT DRUM
5	1	E/D-23	TORQUE TUBE
6	1	F/D-23	GEARBOX & DRUM FRAME BRACKET
7	1	G/D-24	MOTOR MOUNT
8	2	H/D-24	PINION
9	2	I/D-24	PILLOW BLOCK SHAFT SPACER
10	1	J/D-24	GEAR SHAFT SPACER (LEFT)
11	1	K/D-24	ARCH CLIP PLATE
12	2	L/D-24	CHANNEL CLIP PLATE
13	6	M/D-24	PILLOW BLOCK SPACER
14	1	N/D-24	PILLOW BLOCK DRUM SPACER (RIGHT)
15	1	O/D-24	GEAR SHAFT SPACER (RIGHT)
16	1	P/D-24	PILLOW BLOCK DRUM SPACER (LEFT)
17			
18	1		G.E. MOTOR TYPE KCS, FRAME 225, 3HP, 1710 RPM, 115/230 SINGLE PHASE, 60 CYCLE, BALL BEARING, TOTALLY ENCLOSED FAN-COOLED, 40CFISE, VERT. OPERATING POS.
19			
20			
21	1		CONE-DRIVE SPEED REDUCER HV-7460C (WALL MOUNTED, DOUBLE EXTENDED OUTPUT SHAFT, R.H. ASSEMBLY)
22			
23			
24	2		BOSTON GEAR NJ64 (GP, 14 1/2" RA, 10.667 RD., 64T)
25	6		FAFNIR PILLOW BLOCK LAK 1 1/2"
26	2		FAFNIR PILLOW BLOCK LAK 2
27	2		FALK COUPLING SIZE 8F (2.000 BORE ONE END & 2.250 OTHER END)
28			
29	1		FALK COUPLING SIZE 8F (2.250 BORE BOTH ENDS)
30	1		FALK COUPLING SIZE 6F (1.000 BORE ONE END & 1.500 OTHER END)
31			
32	12		1/4" X 2 1/2" LG. HEX. HD. MACH. BOLT W/H.N. & L.W.
33	4		1/2" X 2 1/2" LG. HEX. HD. MACH. BOLT W/H.N. & L.W.
34	4		1/2" X 2 LG. HEX. HD. MACH. BOLT W/H.N. & L.W.
35	104		1/8" X 1 1/2" LG. HEX. HD. MACH. BOLT W/H.N. & L.W.
36	4		1/2" SQ X 3 LG. KEY STOCK
37	4		6 CHANNEL 10.5"
38	4		3/8" X 4" LG. HEX. HD. MACH. BOLT W/H.N. & L.W.

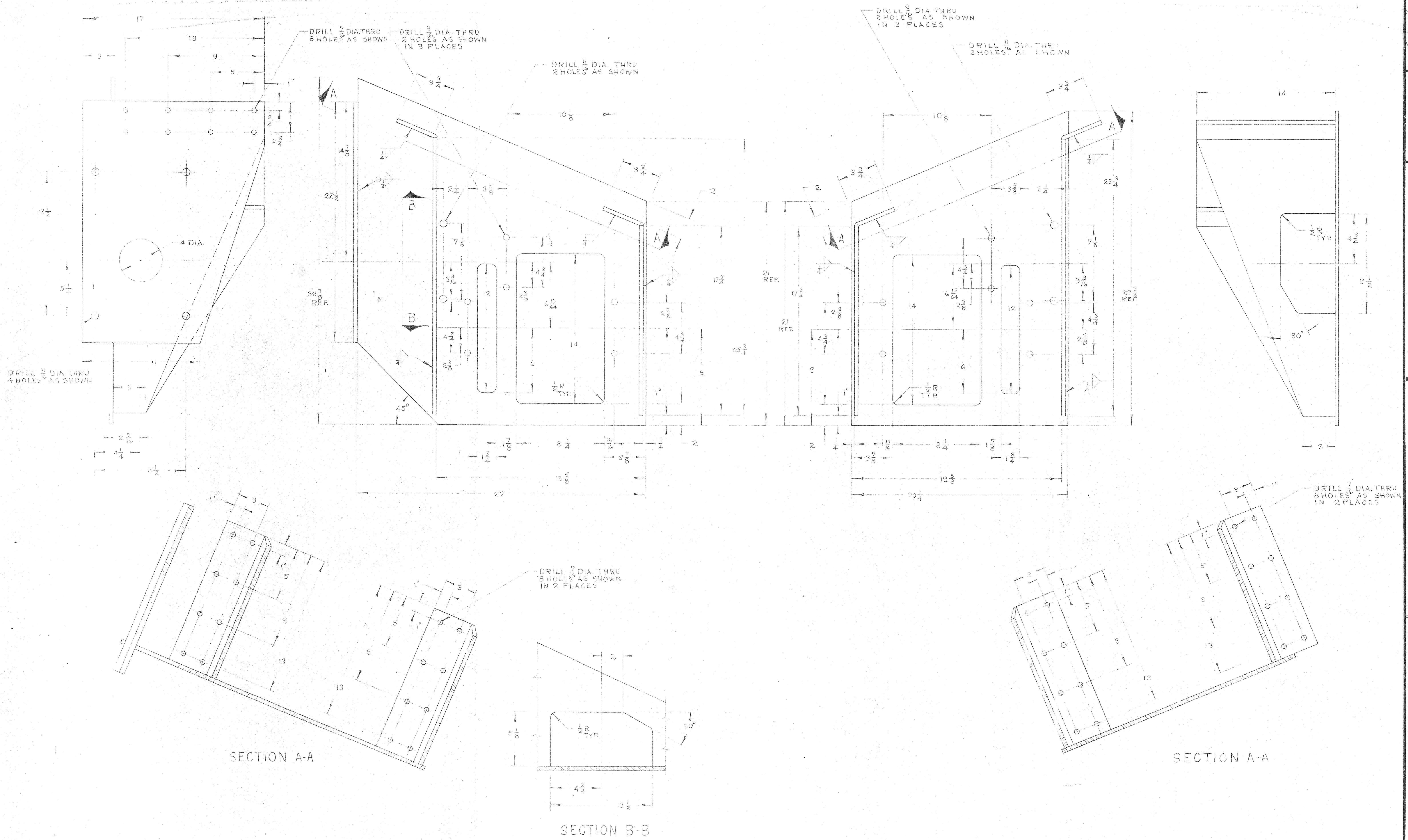


**WILLIAM WILDE ARCHITECT - AIA**  
 ARCHITECTURE - INDUSTRIAL DESIGN - SPACE PLANNING  
 181 SOUTH TUCSON BOULEVARD - TUCSON, ARIZONA - EA 8-3373  
THIS SERVICE AS INSTRUMENT OF SERVICES IS THE PROPERTY OF WILLIAM WILDE, IT CAN BE USED ONLY WITH THE PERMISSION FOR PURPOSE RECEIVED HEREIN. AFTER WHICH IT SHALL BE RETURNED TO HIS OFFICE.

STEWART OBSERVATORY  
 UNIVERSITY OF ARIZONA  
 KITT PEAK

PLATFORM HOIST  
 ASSEMBLY

ISSUE DATE: 10-22-61  
 COMMISSION: 6-1359  
**D21**

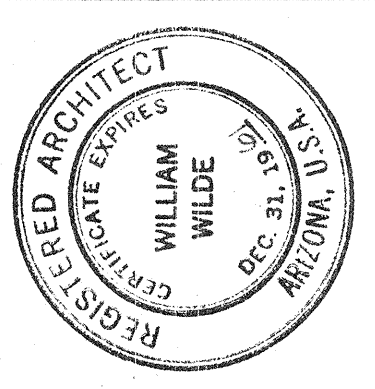
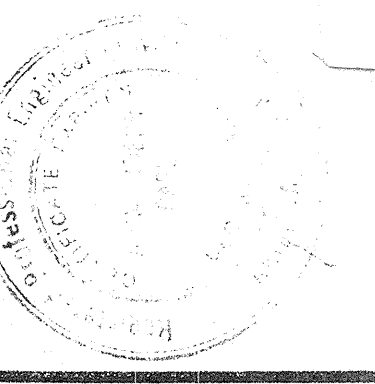


GEAR BOX & DRUM FRAME DETAIL (A)  
SCALE ~ 3" = 1'-0"

DRUM FRAME DETAIL (B)  
SCALE ~ 3" = 1'-0"

MATERIAL ~ 3/8" THICK ASTM-A7

MATERIAL ~ 3/8" THICK ASTM-A7

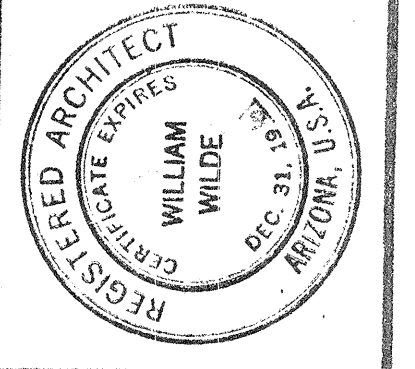
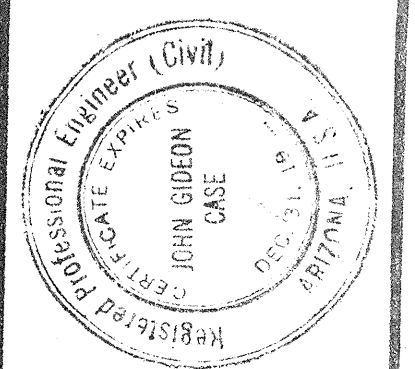
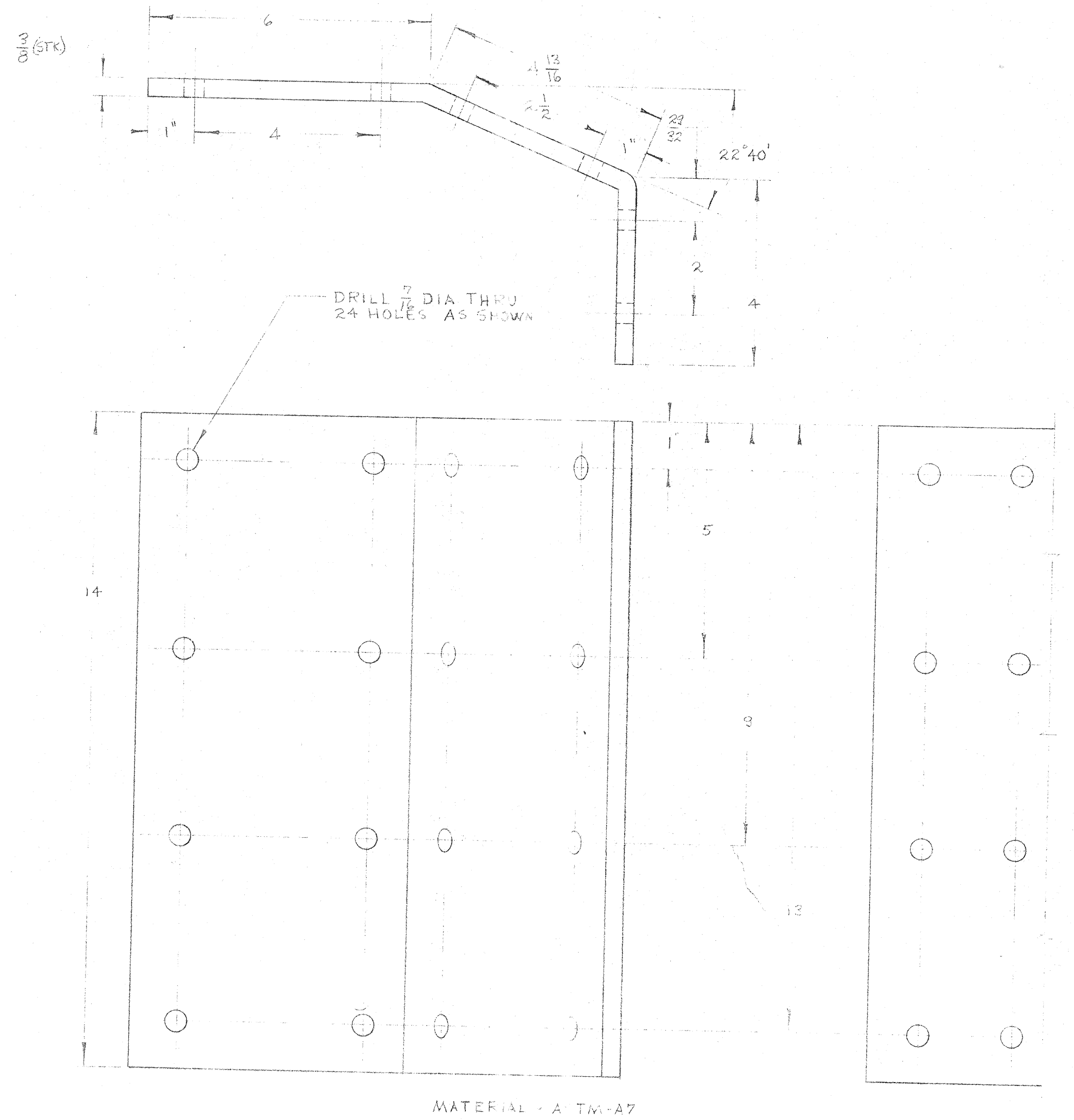
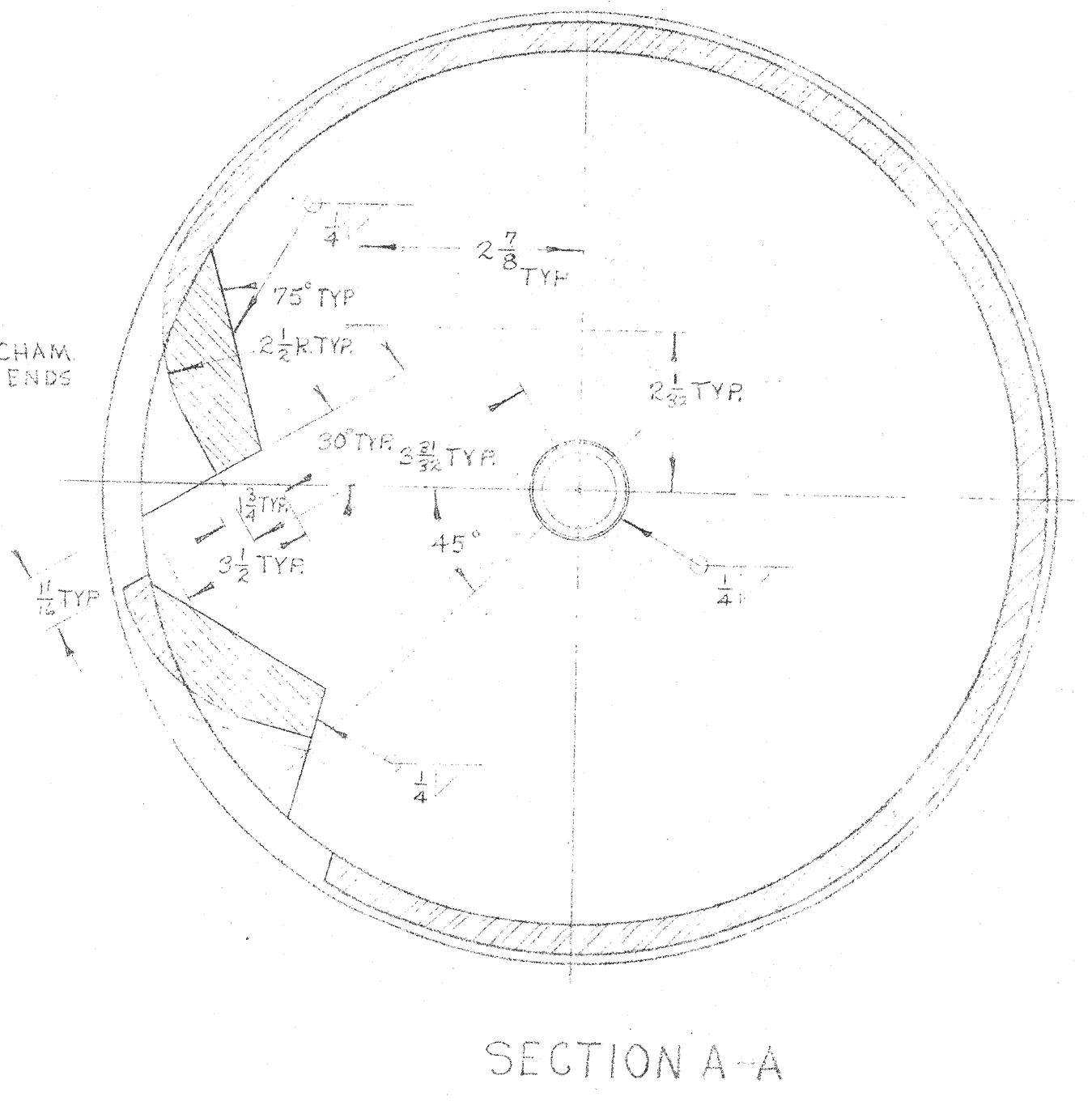
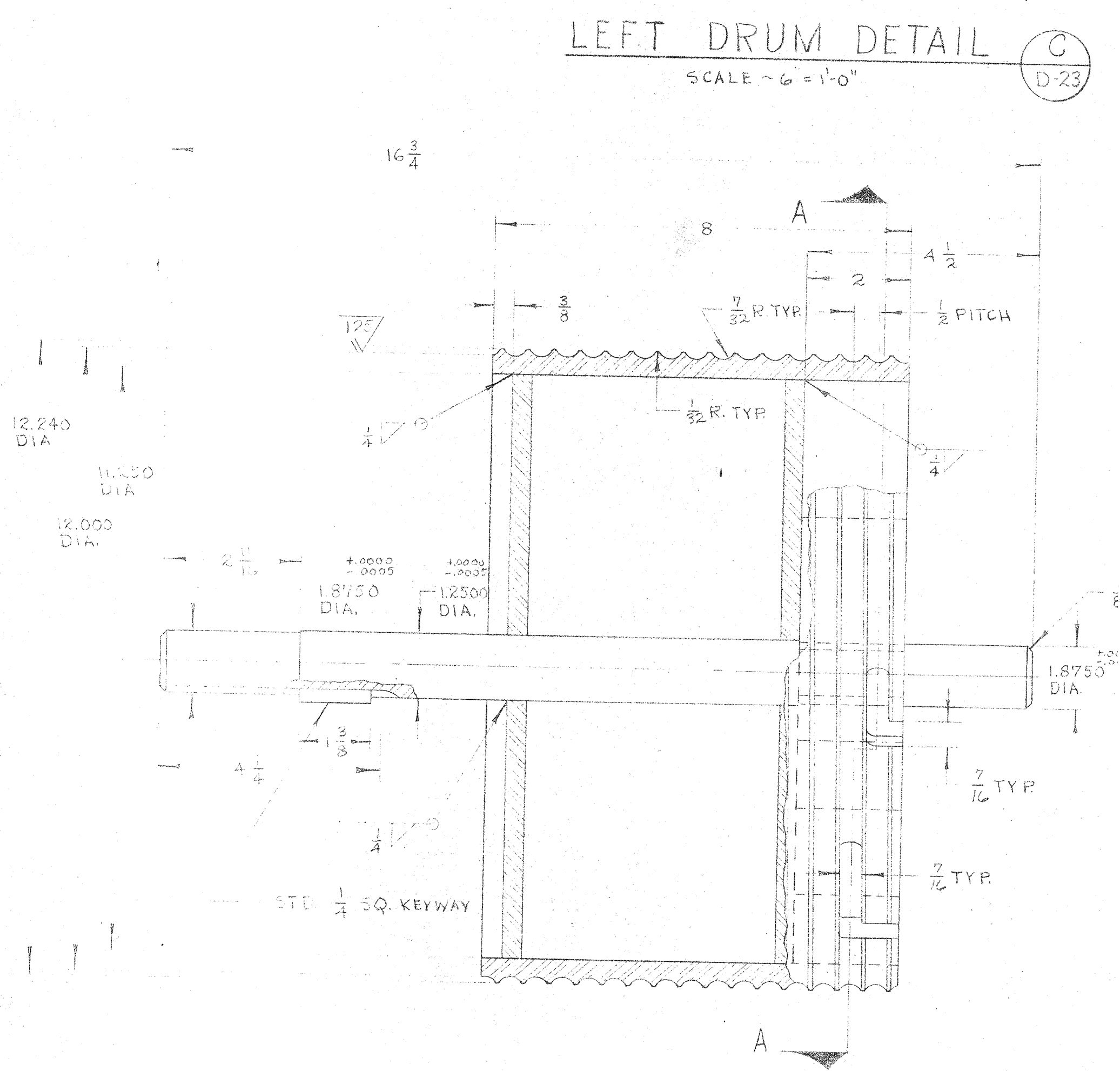
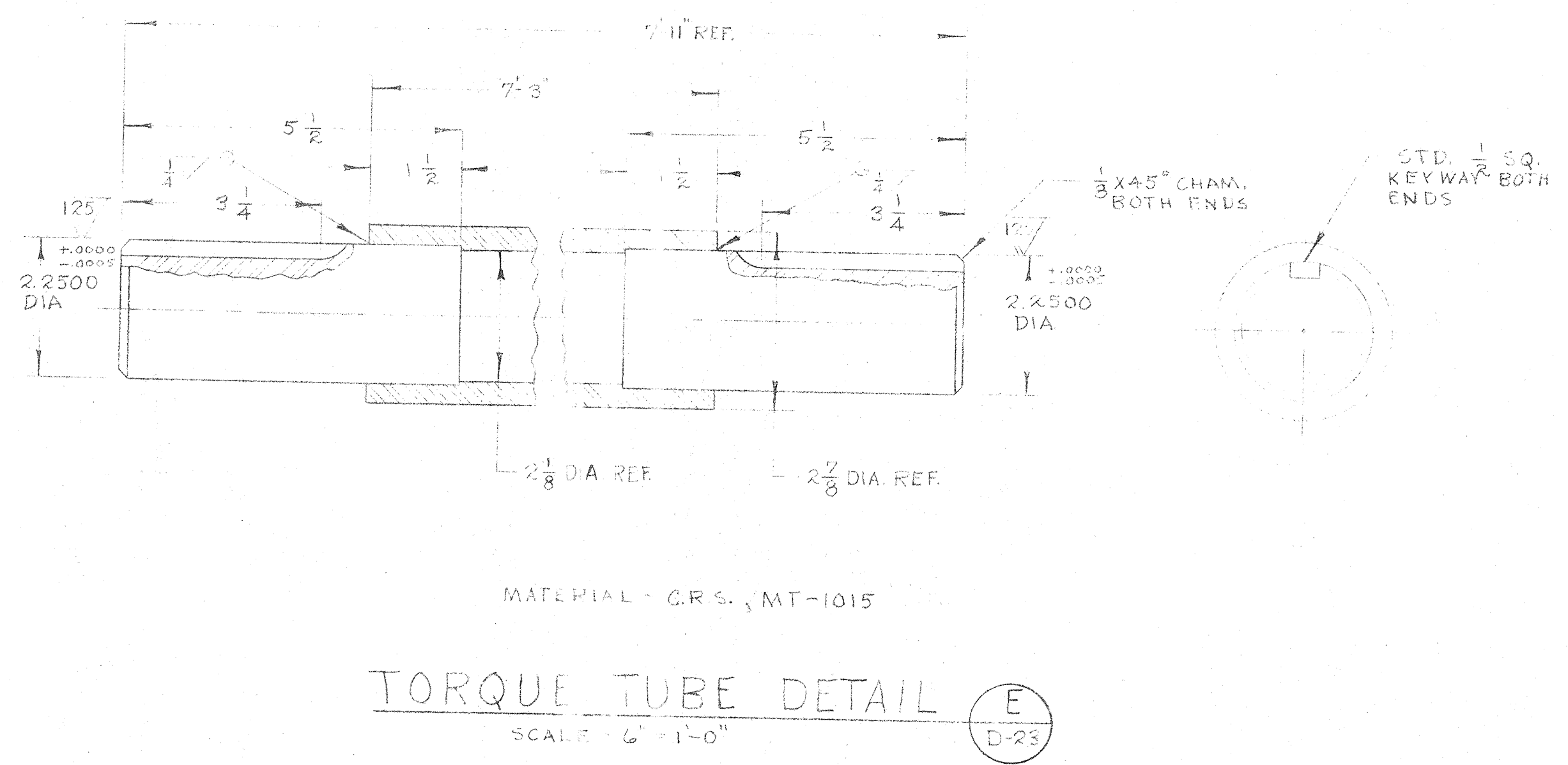
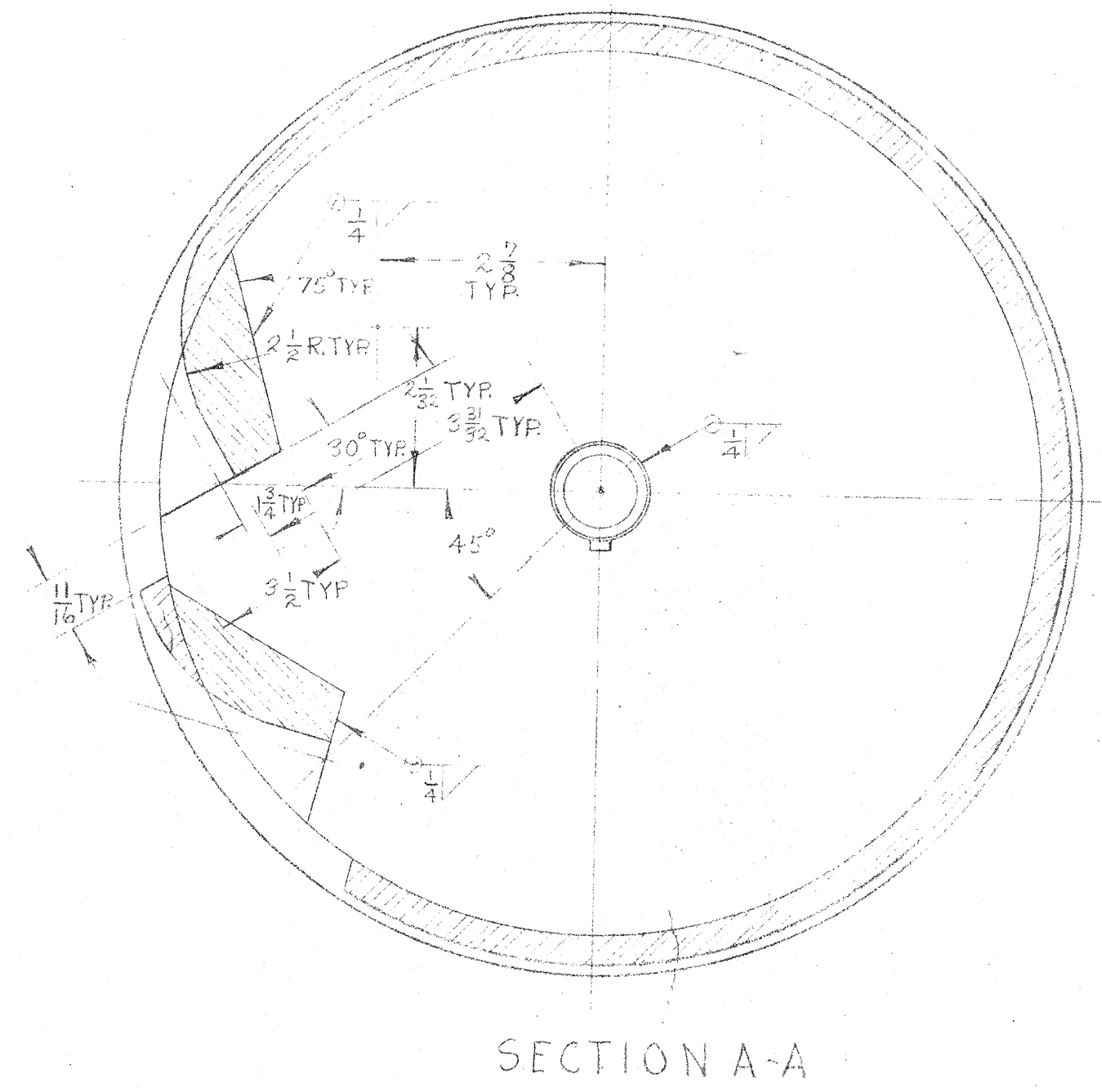
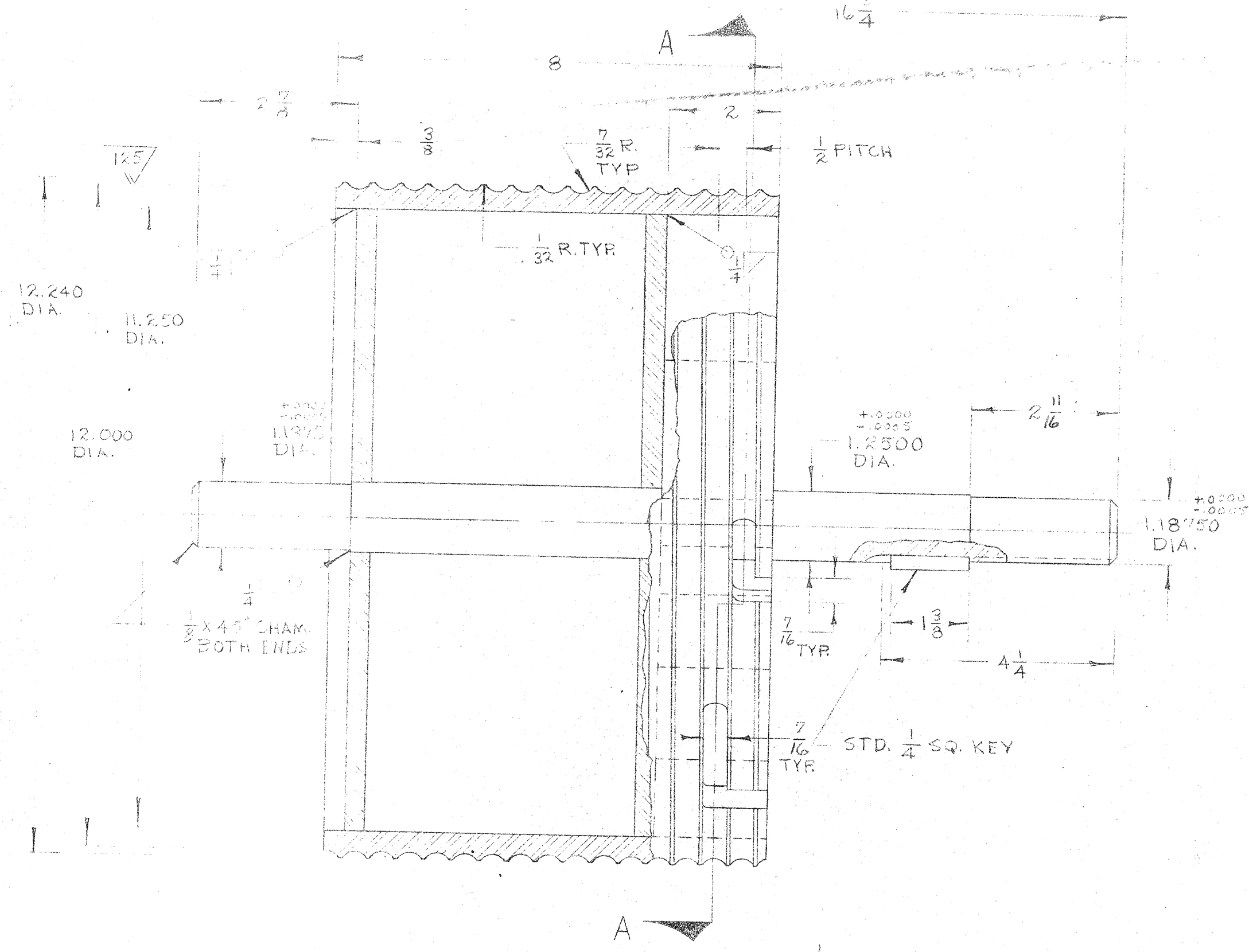


**WILLIAM WILDE ARCHITECT - AIA**  
 ARCHITECTURE · INDUSTRIAL DESIGN · SPACE PLANNING  
 181 SOUTH TUCSON BOULEVARD · TUCSON, ARIZONA · EA 5-3373  
THIS DRAWING IS THE PROPERTY OF WILLIAM WILDE ARCHITECT. IT IS TO BE USED ONLY FOR THE PROJECT AND SITE SPECIFICALLY IDENTIFIED HEREON. IT IS RETURNED TO THE OWNER.

STEWART OBSERVATORY  
 UNIVERSITY OF ARIZONA  
 KITT PEAK

PLATFORM HOIST  
 DETAILS - I

DRAWING  
 ISSUE DATE  
 10-2-61  
 COMMISSION  
 6-1360

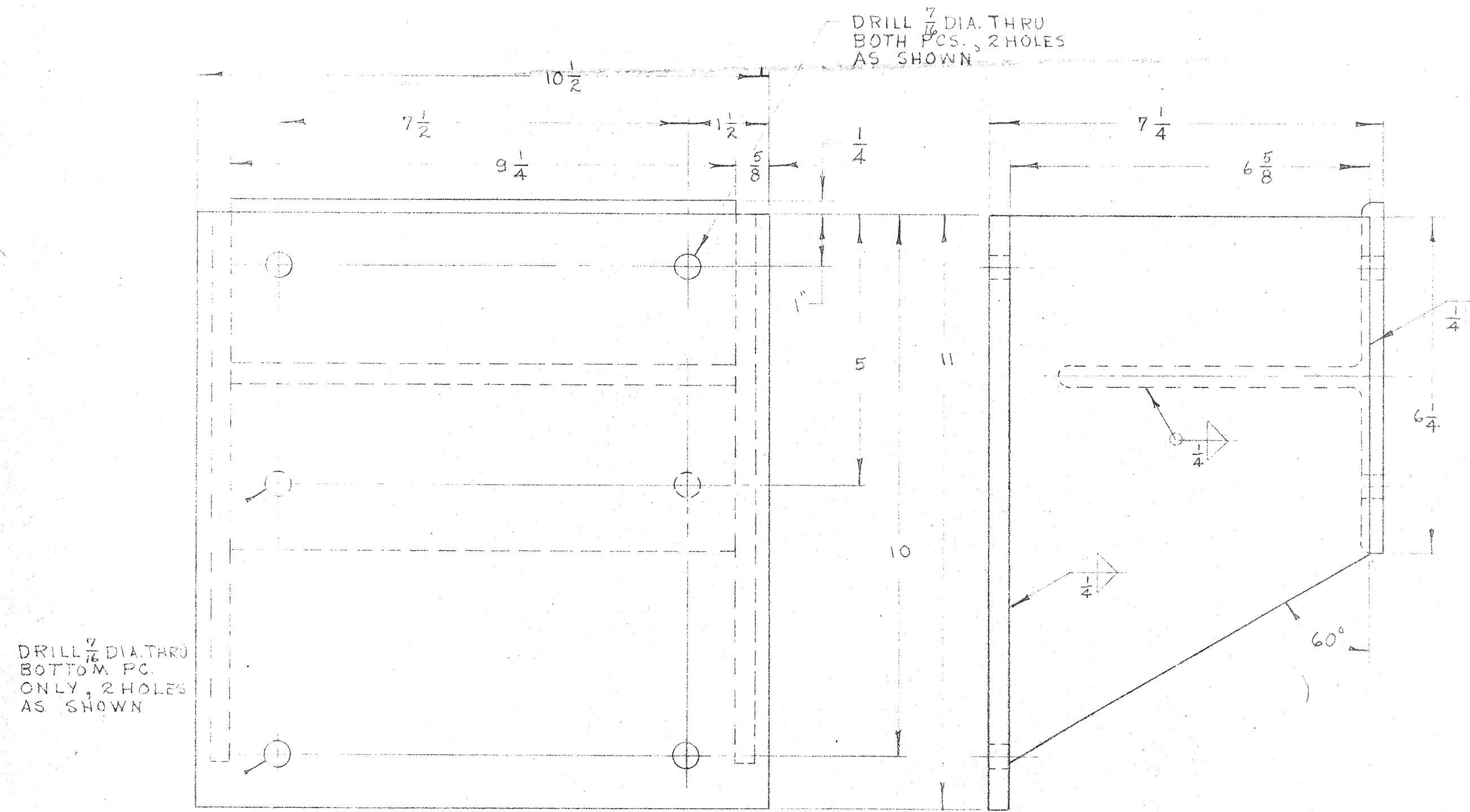


WILLIAM WILDE ARCHITECT AIA  
ARCHITECTURE • INDUSTRIAL DESIGN • SPACE PLANNING  
151 SOUTH TUCSON BOULEVARD • TUCSON, ARIZONA • SA 5-3373

STEWART OBSERVATORY  
UNIVERSITY OF ARIZONA  
KIT PEAK

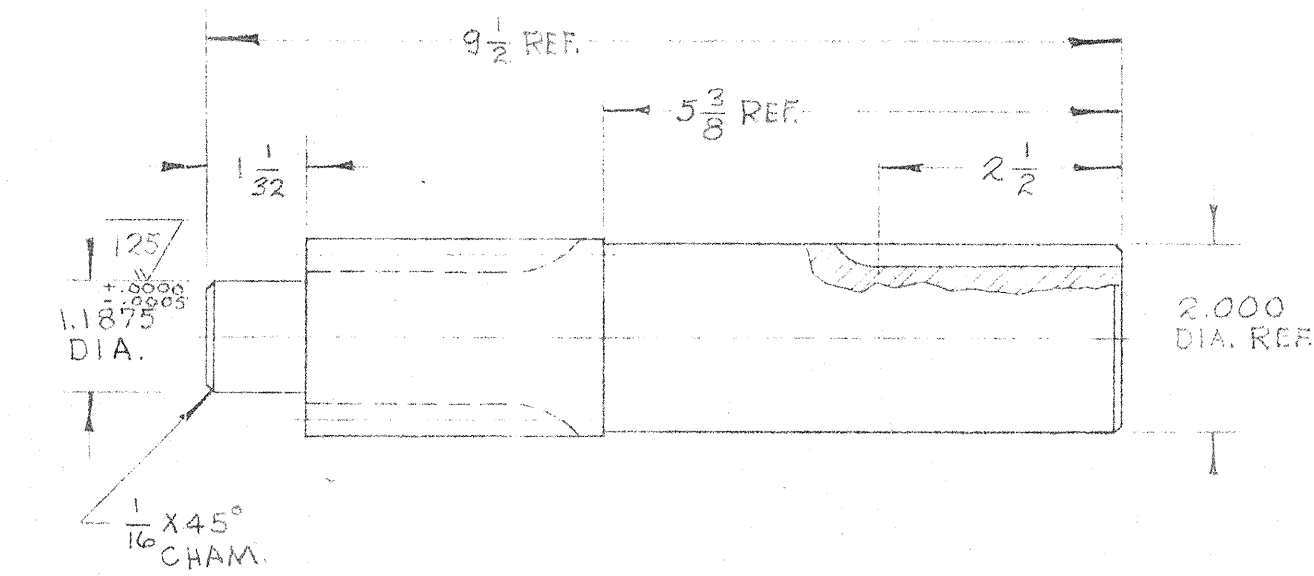
PLATFORM HOIST  
DETAILS II

ISSUE DATE 10-2-61  
COMMISSION 6-1853  
DRAWING 123



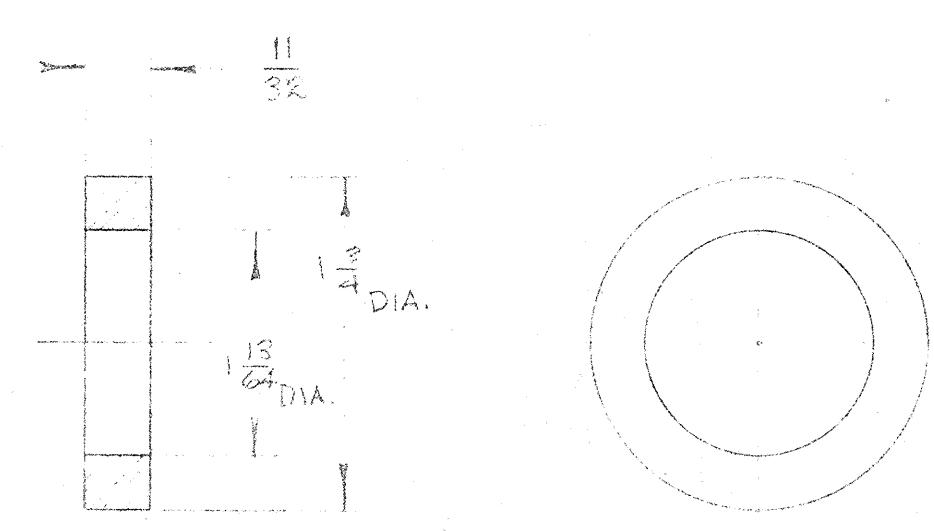
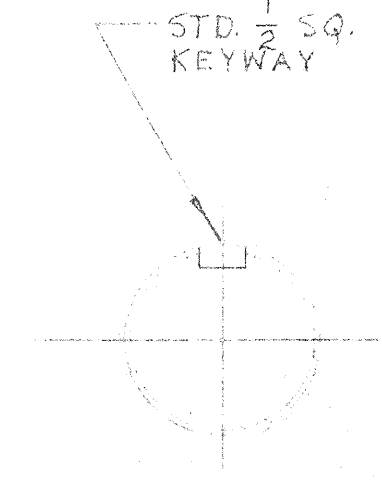
MOTOR MOUNT DETAIL (G)  
SCALE - 6" = 1'-0"

DRILL 7/8 DIA. THRU TOP & ONLY, 2 HOLES AS SHOWN



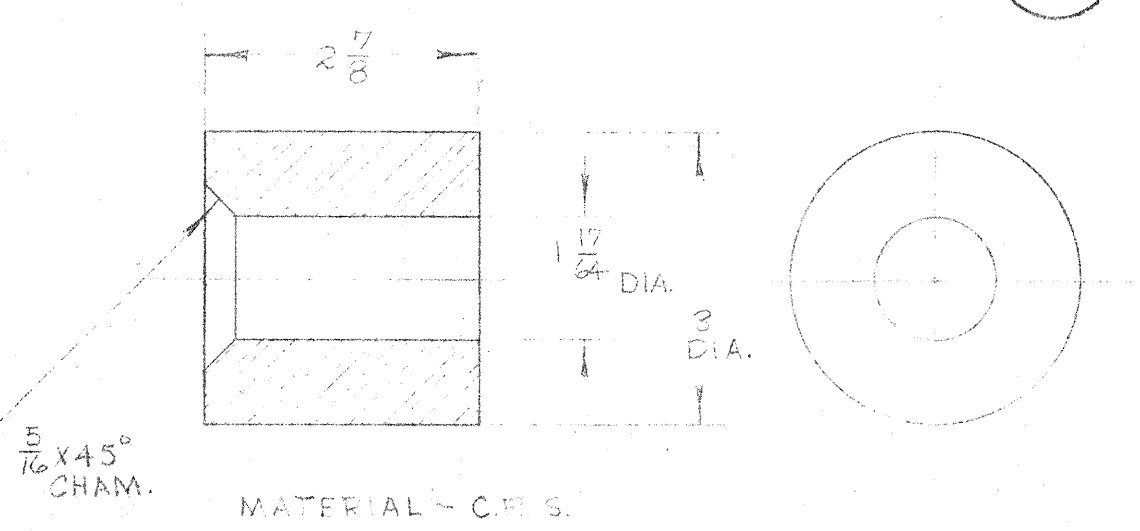
PINION DETAIL (H)  
SCALE - 6" = 1'-0"

MATERIAL - BOSTON PINION N3R10



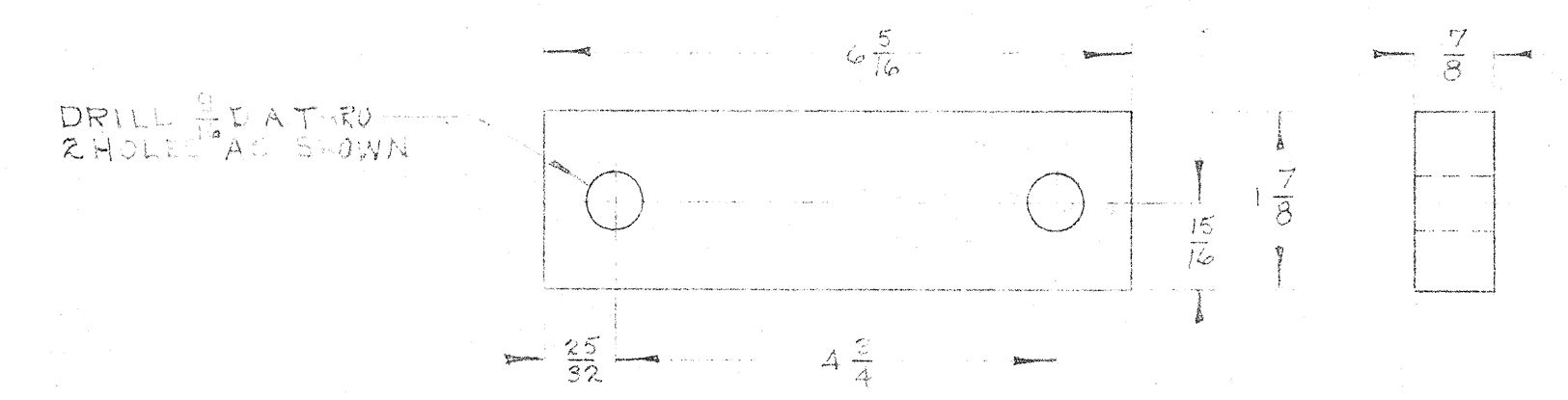
PILLOW BLOCK SHAFT SPACER DETAIL (I)  
SCALE - FULL

MATERIAL - CR.S.



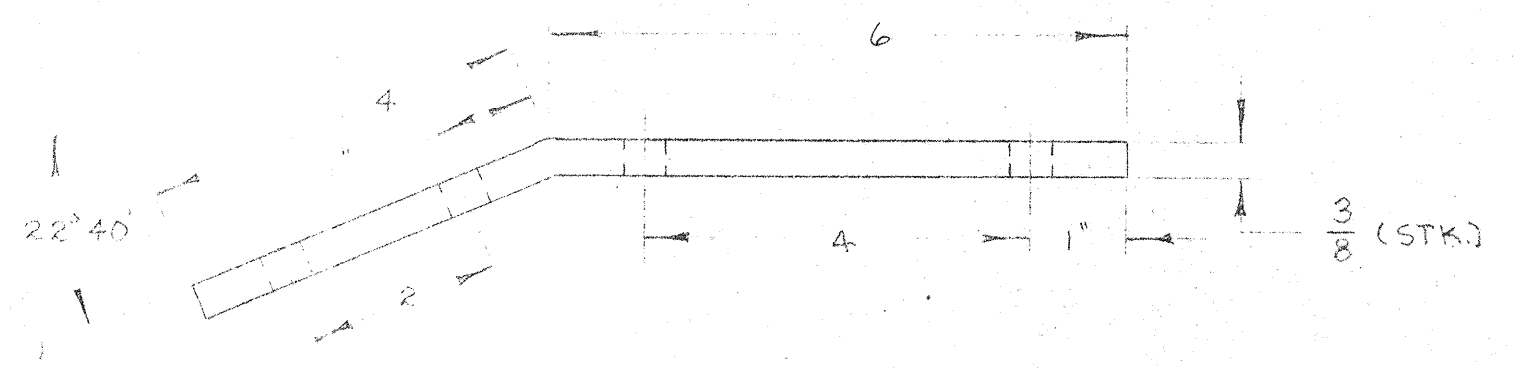
GEAR SHAFT SPACER (LEFT) DETAIL (J)  
SCALE - 6" = 1'-0"

MATERIAL - CR.S.



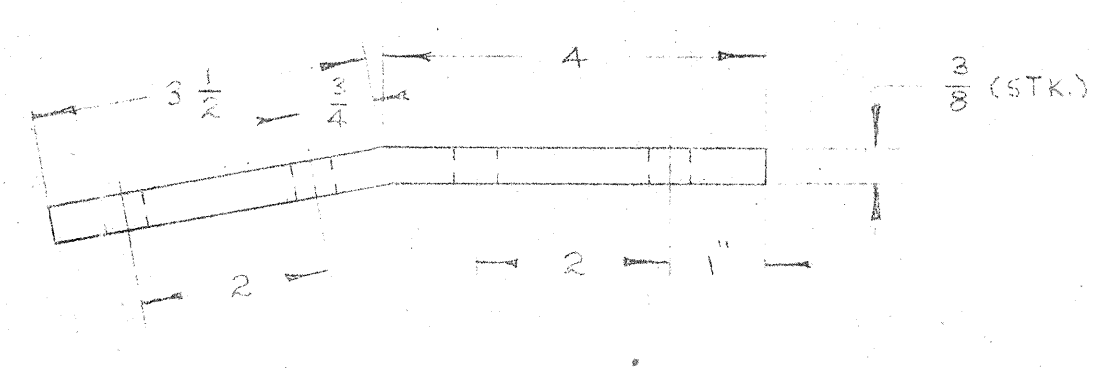
PILLOW BLOCK SPACER DETAIL (M)  
SCALE - 6" = 1'-0"

MATERIAL - ASTM-A7



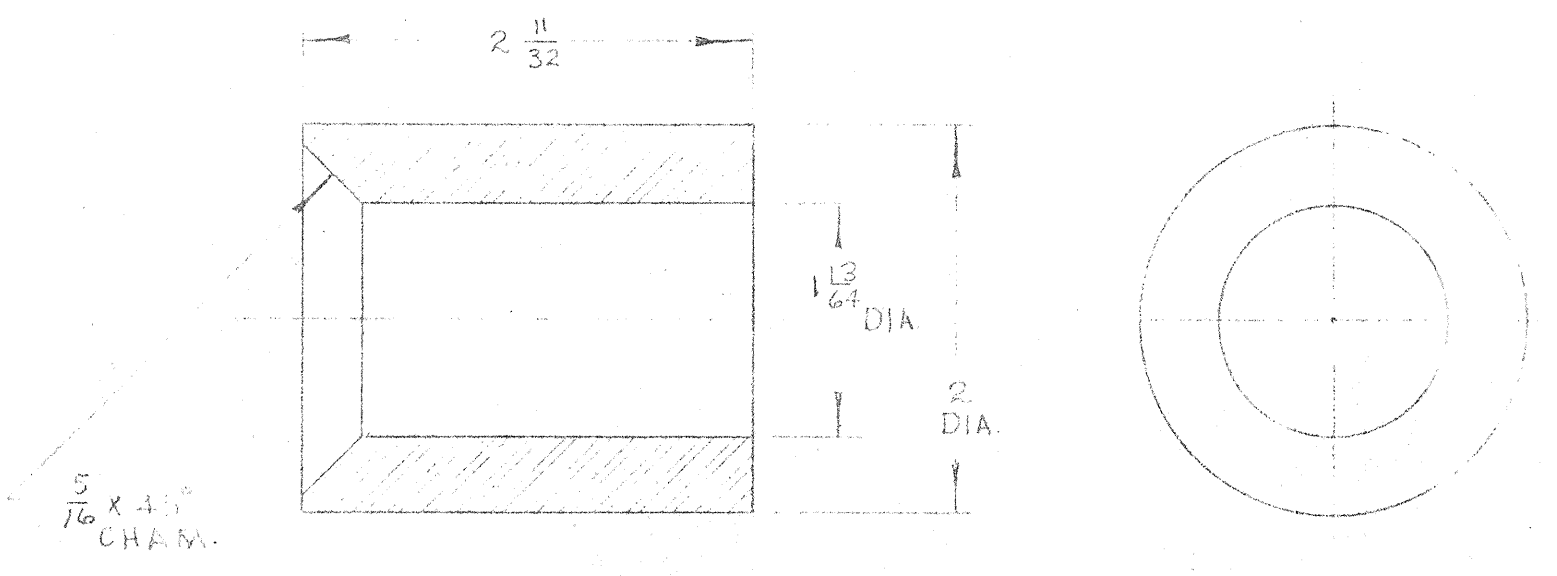
ARCH CLIP PLATE DETAIL (K)  
SCALE - 6" = 1'-0"

MATERIAL - ASTM-A7



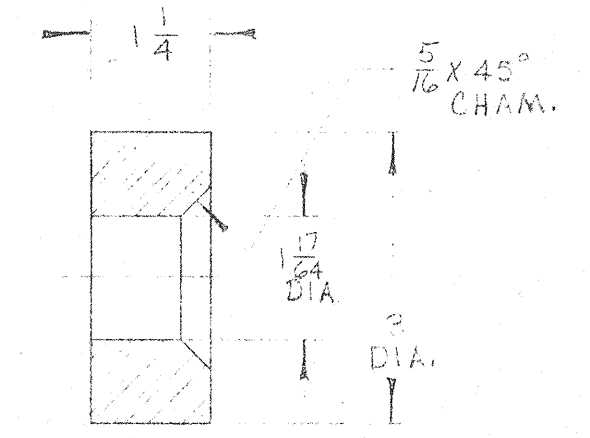
CHANNEL CLIP PLATE DETAIL (L)  
SCALE - 6" = 1'-0"

MATERIAL - ASTM-A7



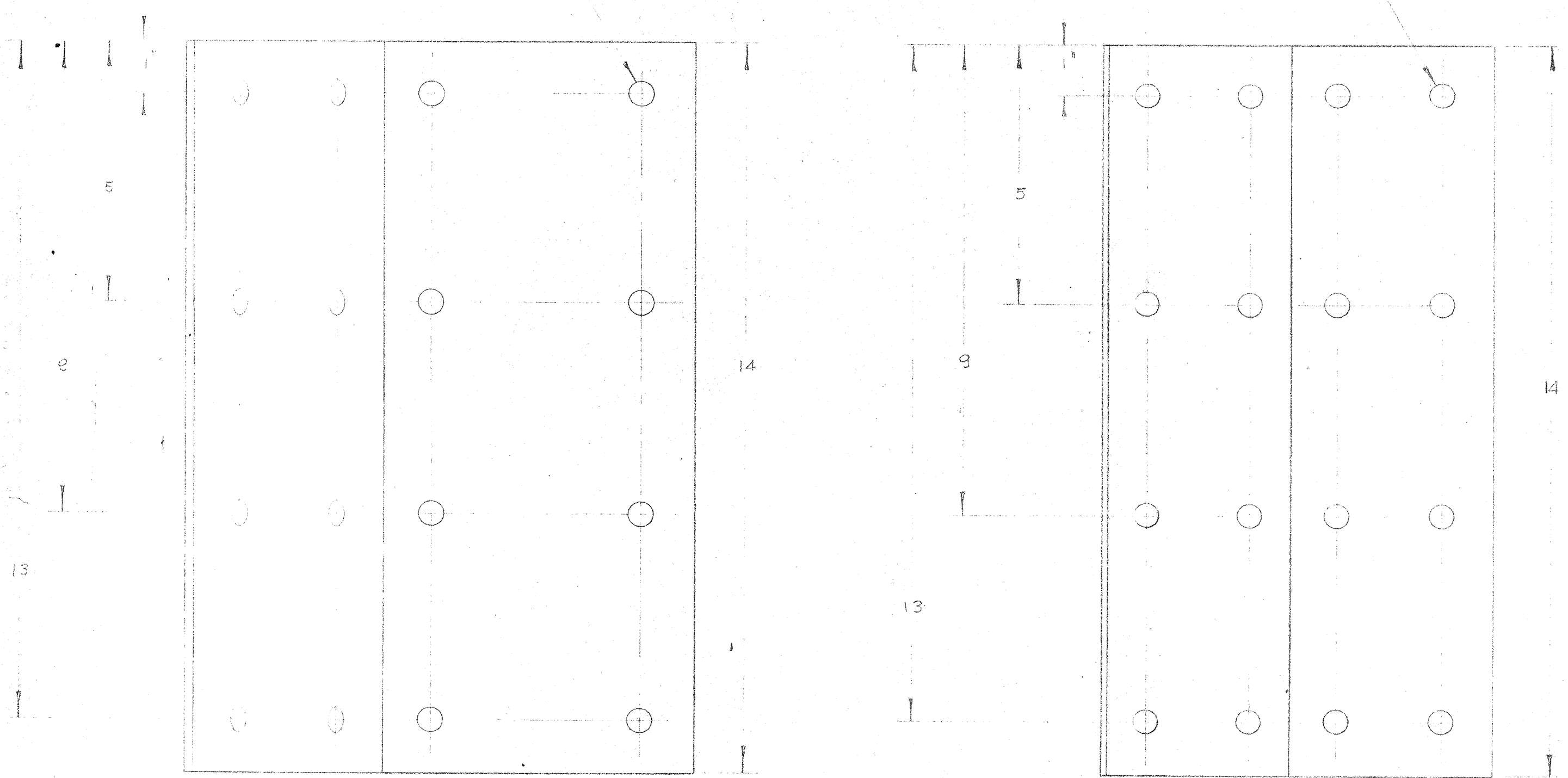
PILLOW BLOCK DRUM SPACER (RIGHT) DETAIL (N)  
SCALE - FULL

MATERIAL - CR.S.



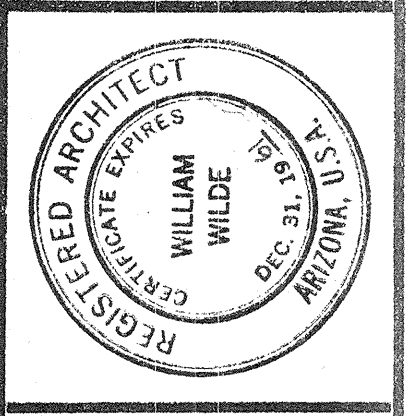
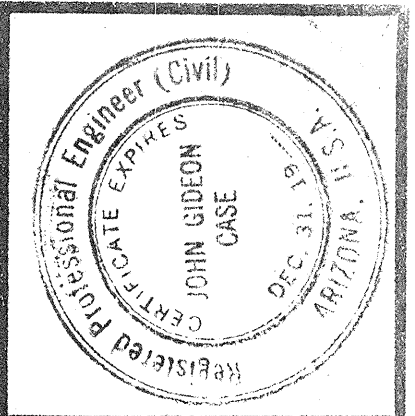
GEAR SHAFT SPACER (RIGHT) DETAIL (O)  
SCALE - 6" = 1'-0"

MATERIAL - CR.S.



PILLOW BLOCK DRUM SPACER (LEFT) DETAIL (P)  
SCALE - FULL

MATERIAL - CR.S.

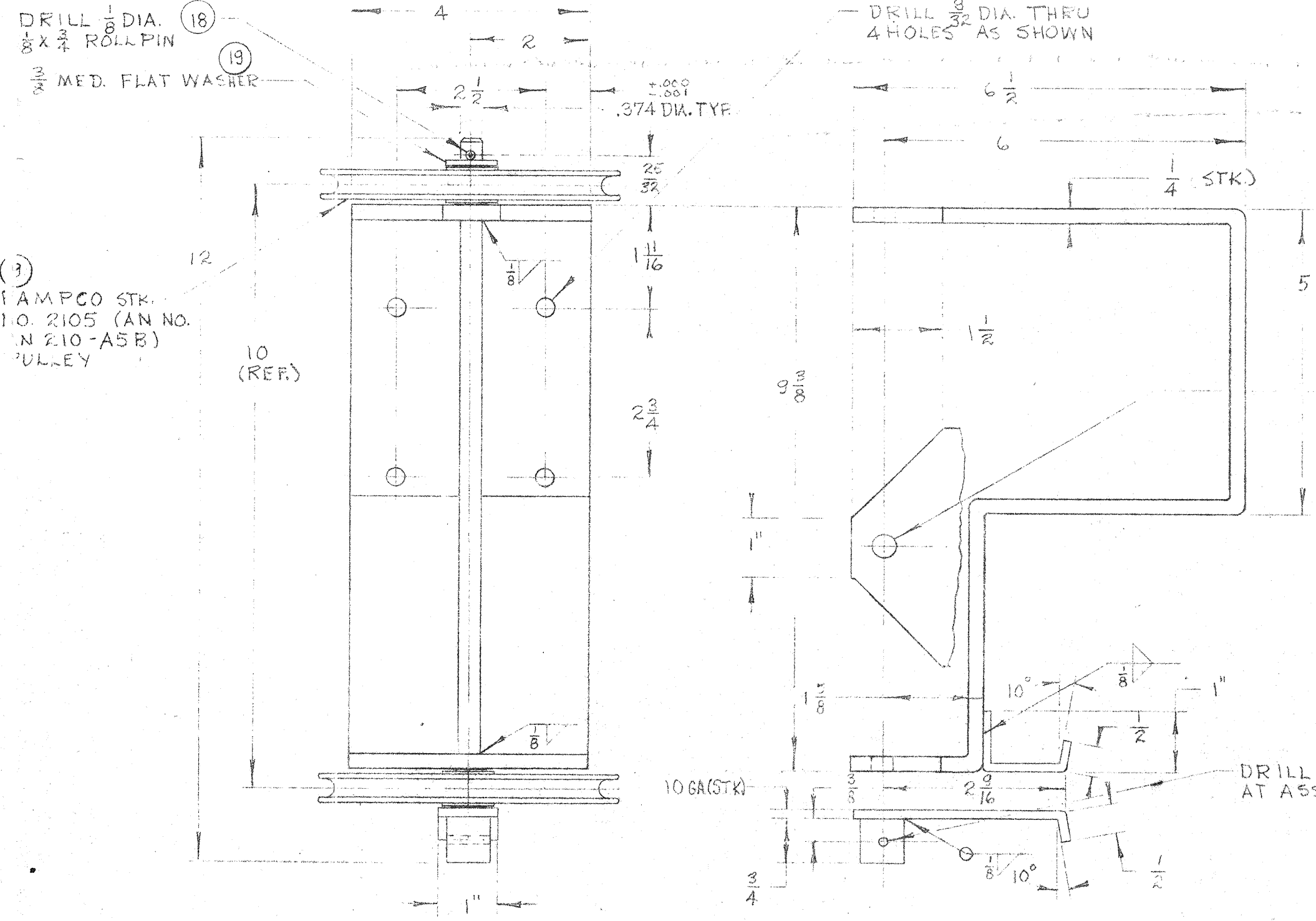


**WILLIAM WILDE ARCHITECT AIA**  
ARCHITECTURE - INDUSTRIAL DESIGN - SPACE PLANNING  
151 SOUTH TUCSON BOULEVARD, TUCSON, ARIZONA - EA 8-3373  
THIS DRAWING IS THE PROPERTY OF WILLIAM WILDE ARCHITECT AIA. NO PART OF THIS DRAWING IS TO BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, WITHOUT THE WRITTEN PERMISSION OF WILLIAM WILDE ARCHITECT AIA.

STEWART OBSERVATORY  
UNIVERSITY of ARIZONA  
KIT PEAK

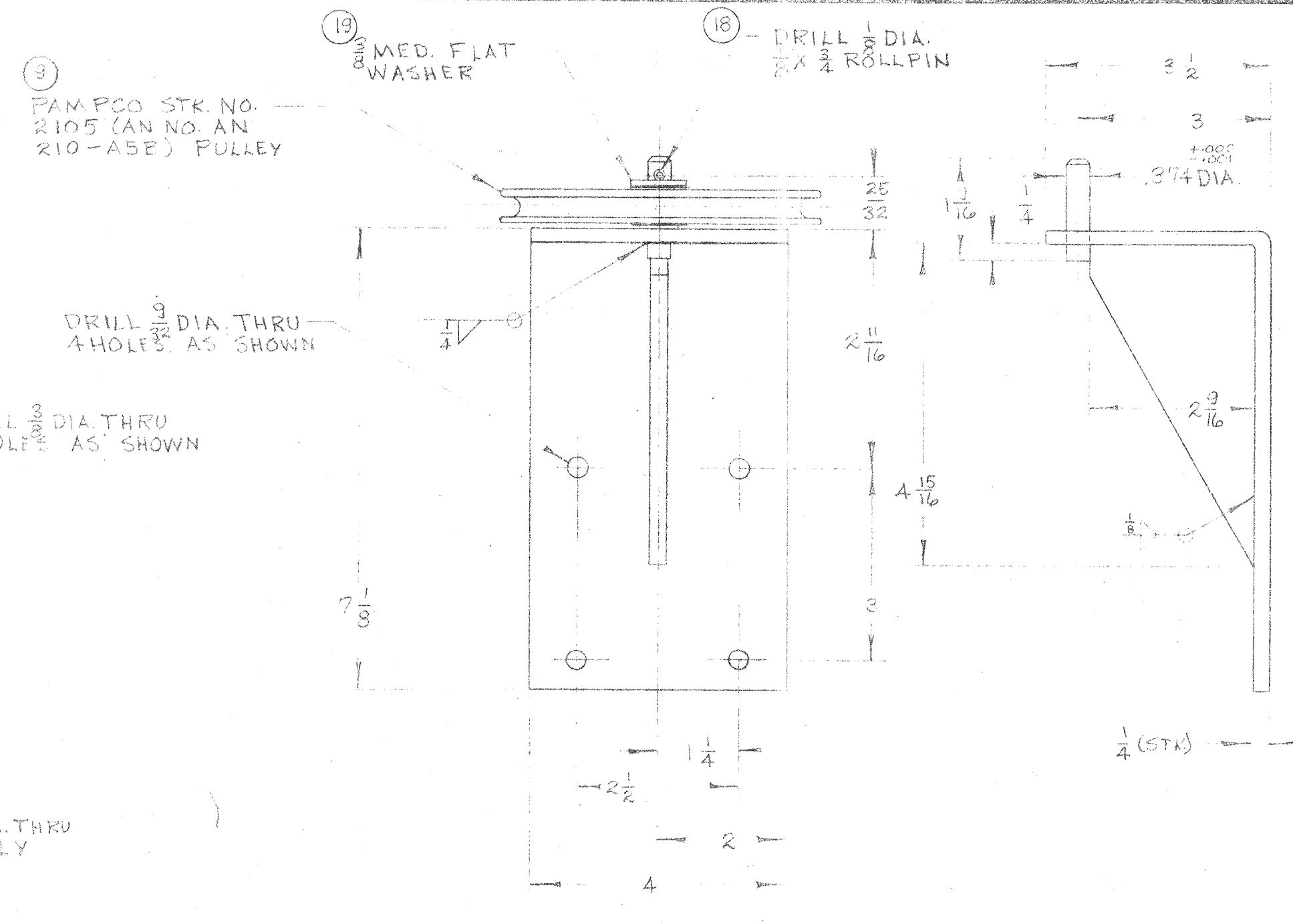
PLATFORM HOIST  
DETAILS - III

DRAWING	10-2-61	COMMISSION	6-1857
ISSUE DATE	10-2-61	COMMISSION	6-1857



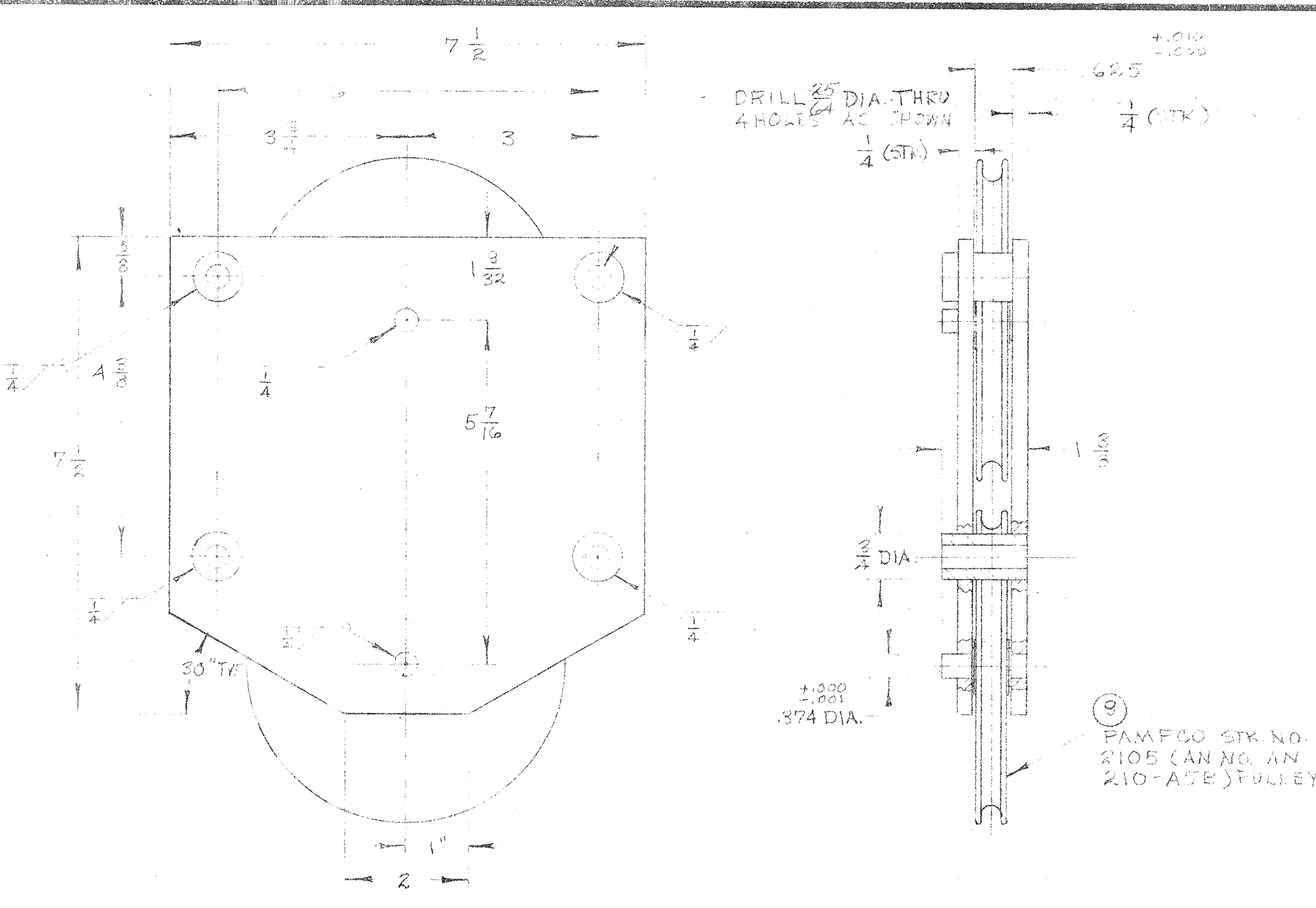
MATERIAL - ASTM-A7 1/2 C.R.S.

DUAL PULLEY BRACKET DETAIL (A) SCALE - 6" = 1'-0" D-25



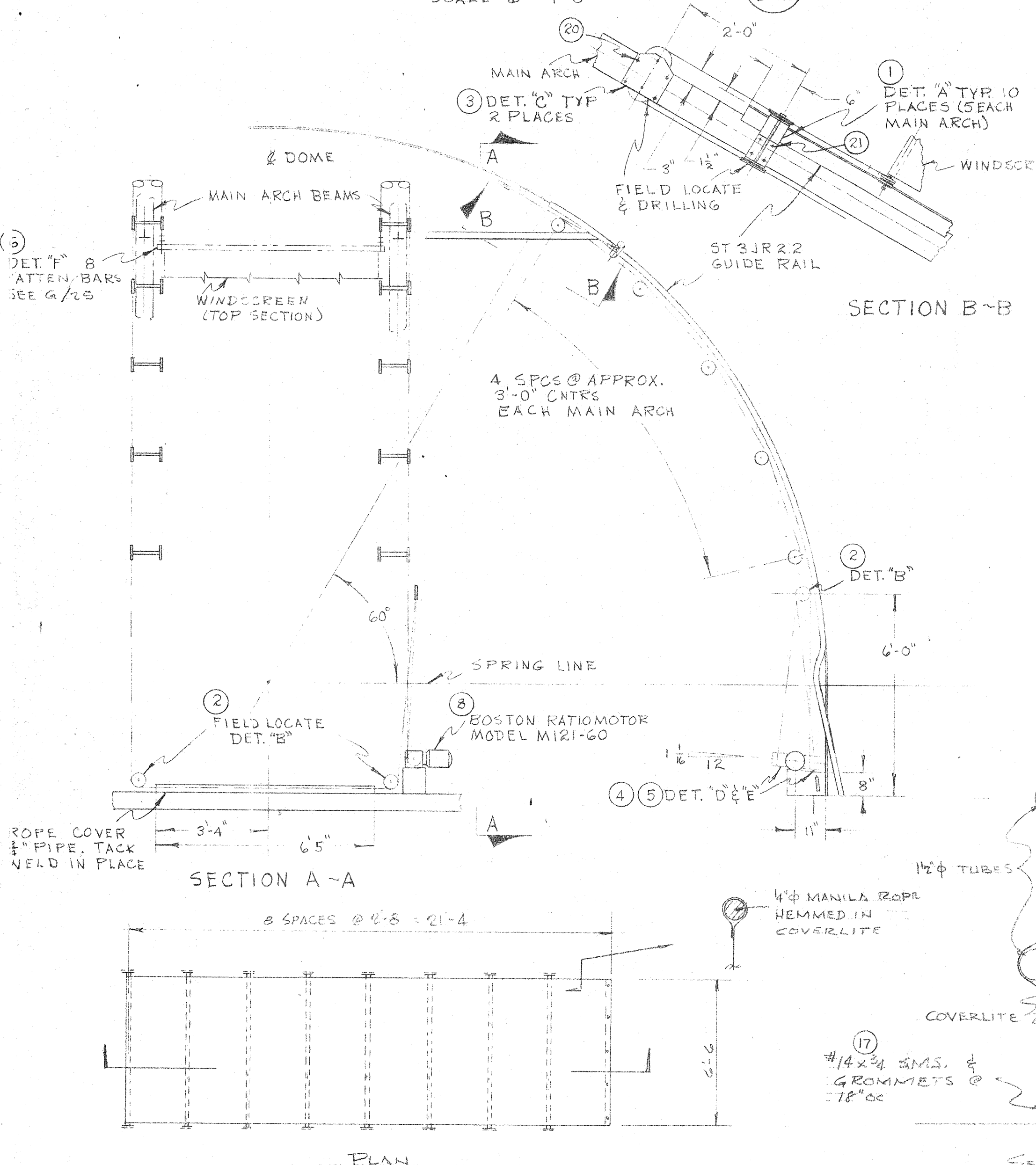
MATERIAL - ASTM-A7 1/2 C.R.S.

PULLEY BRACKET DETAIL (B) SCALE - 6" = 1'-0" D-25

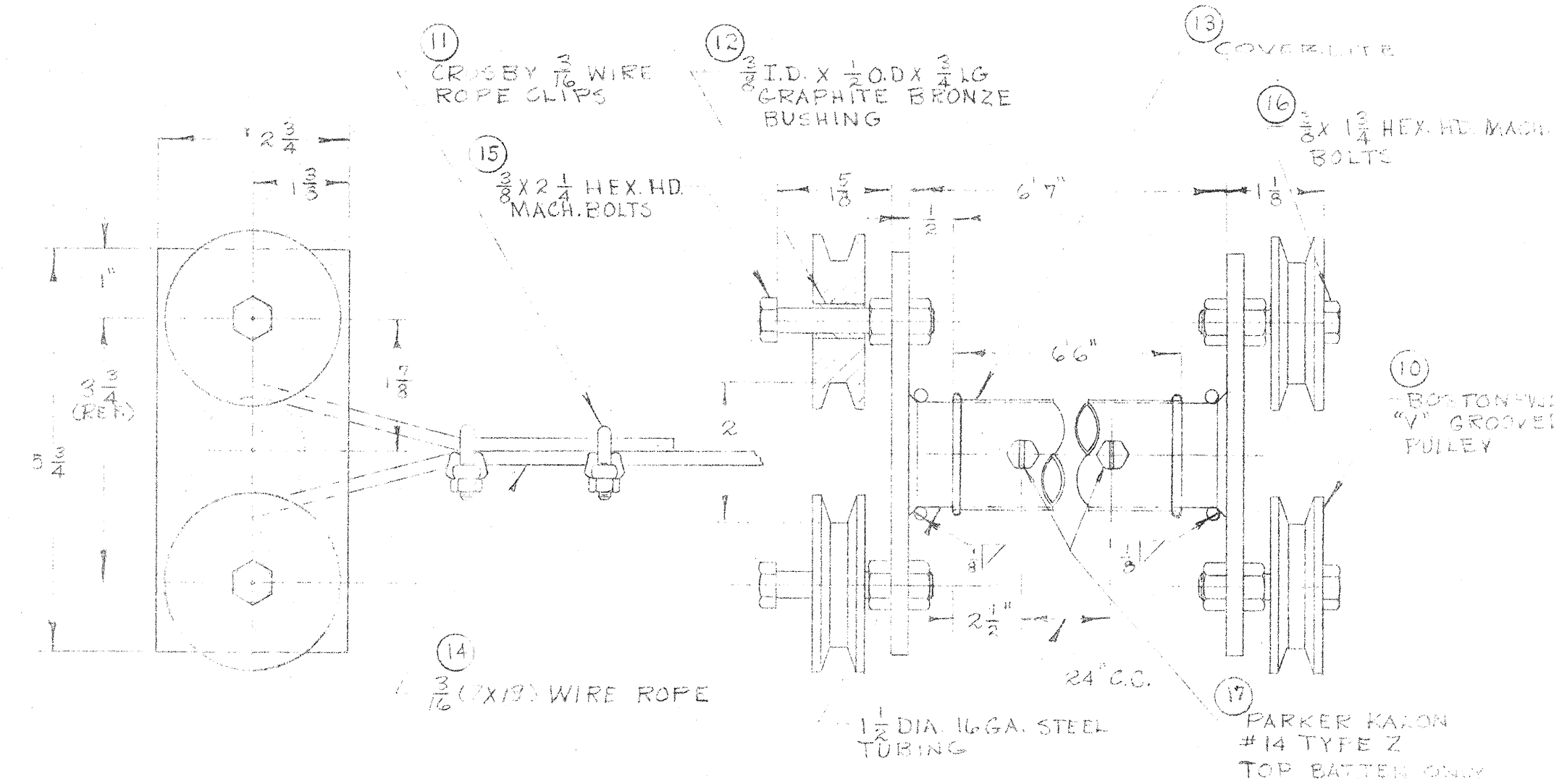


MATERIAL - ASTM-A7 1/2 C.R.S.

END PULLEY BRACKET DETAIL (C) SCALE - 6" = 1'-0" D-25

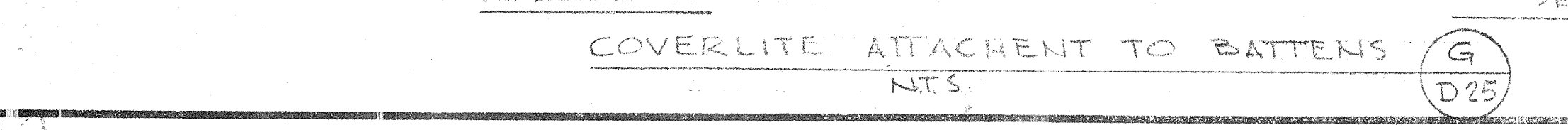


DRUM DETAIL SHOWN (D) OPPOSITE (E) SCALE - 6" = 1'-0" D-25



MATERIAL - ASTM-A7

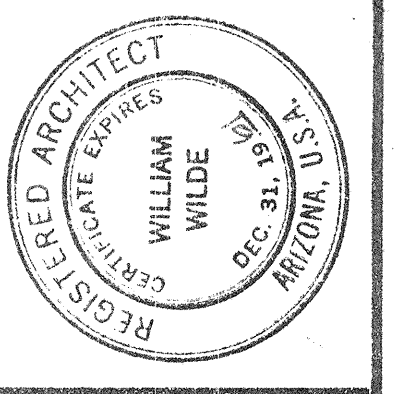
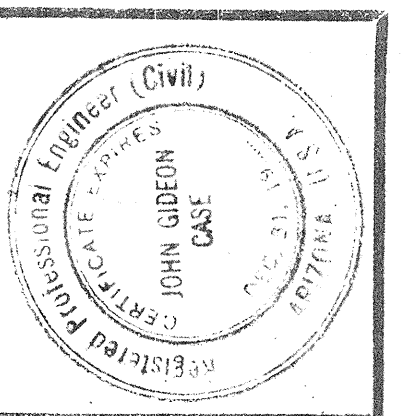
BATTEN BAR DETAIL (F) SCALE - 6" = 1'-0" D-25



COVERLITE ATTACHMENT TO BATTENS (G) D-25

WINDSCREEN - ASSEMBLY LIST

ITEM NO.	NO. REQ'D	DETAIL NO.	DESCRIPTION
1	10	A/D-25	DUAL PULLEY BRACKET
2	3	B/D-25	PULLEY BRACKET
3	12	C/D-25	END PULLEY BRACKET
4	1	D/D-25	DRUM
5	1	E/D-25	DRUM
6	8	F/D-25	BATTEN BAR
7			
8	1		BOSTON RATIO MOTOR MODEL M121-60, 230V. C.W.S.E. FRAC.
9	27		PAMCO STK NO. 2105 (AN NO. 210-A5B) PULLEY
10	32		BOSTON PVJ25 V GROOVED PULLEY
11	4		CROSBY 3/8 WIRE ROPE CLIPS
12	32		3/8 ID X 1/2 O.D. X 1/2 LG. GRAPHITE BRONZE BUSHING
13			COVERLITE
14			3/8 (7X19) WIRE ROPE
15	16		3/8 X 2 1/2 HEX. HD. MACH. BOLT W/2 H.N.
16	16		1/2 X 2 1/2 HEX. HD. MACH. BOLT W/2 H.N.
17	9		PARKER KALON #14 TYPE 2
18	23		3/8 X 1/2 LG. ROLL PIN
19	12		3/8 MED. FLAT WASHER
20	8		3/8 X 2 1/2 HEX. HD. MACH. BOLT W/2 H.N. 2 L.W.
21	52		1/2 X 1 1/2 HEX. HD. MACH. BOLT W/2 H.N. 2 L.W.



**WILLIAM WILDE ARCHITECT - AIA**  
 ARCHITECTURE - INDUSTRIAL DESIGN - SPACE PLANNING  
 151 SOUTH TUCSON BOULEVARD - TUCSON, ARIZONA - EA 3-3373

STEWART OBSERVATORY  
 UNIVERSITY OF ARIZONA  
 KITT PEAK

WINDSCREEN & DETAILS  
 ASSEMBLY & DETAILS

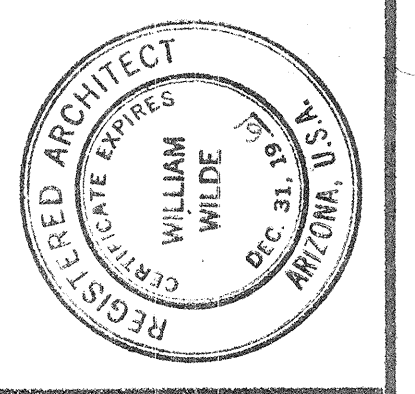
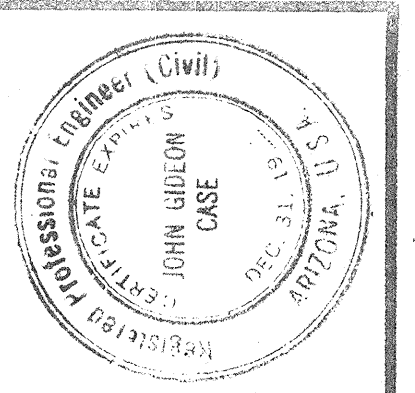
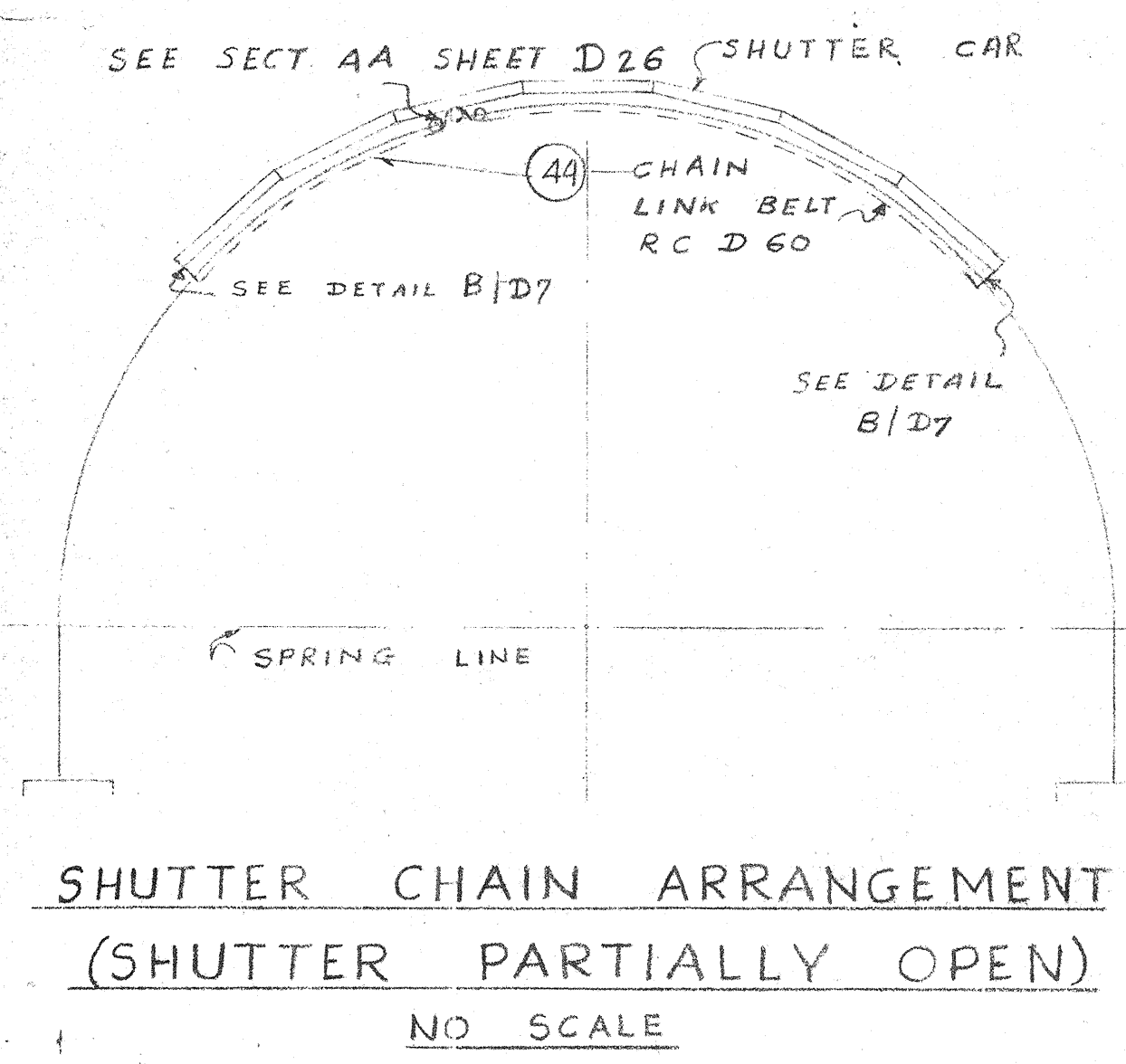
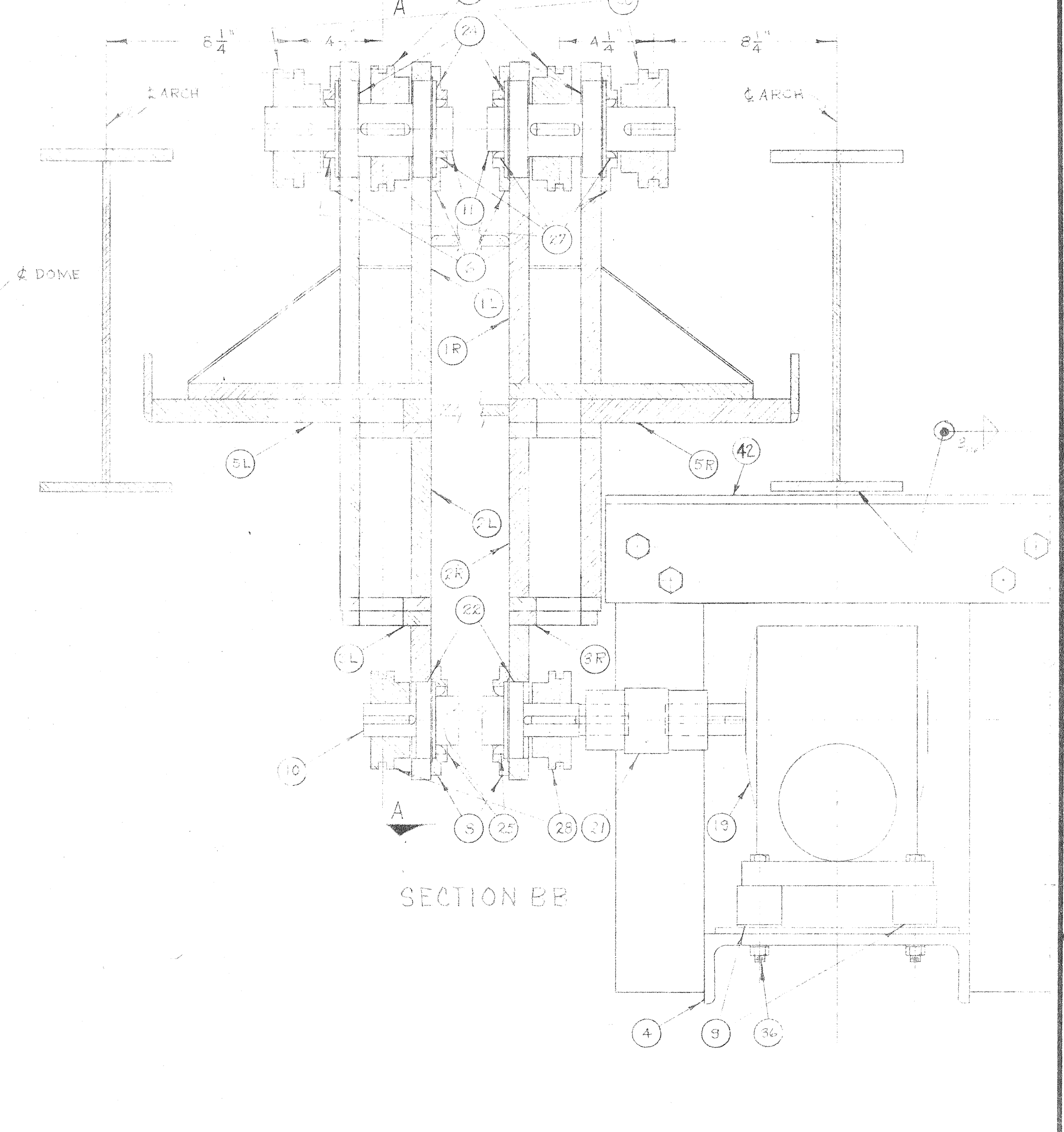
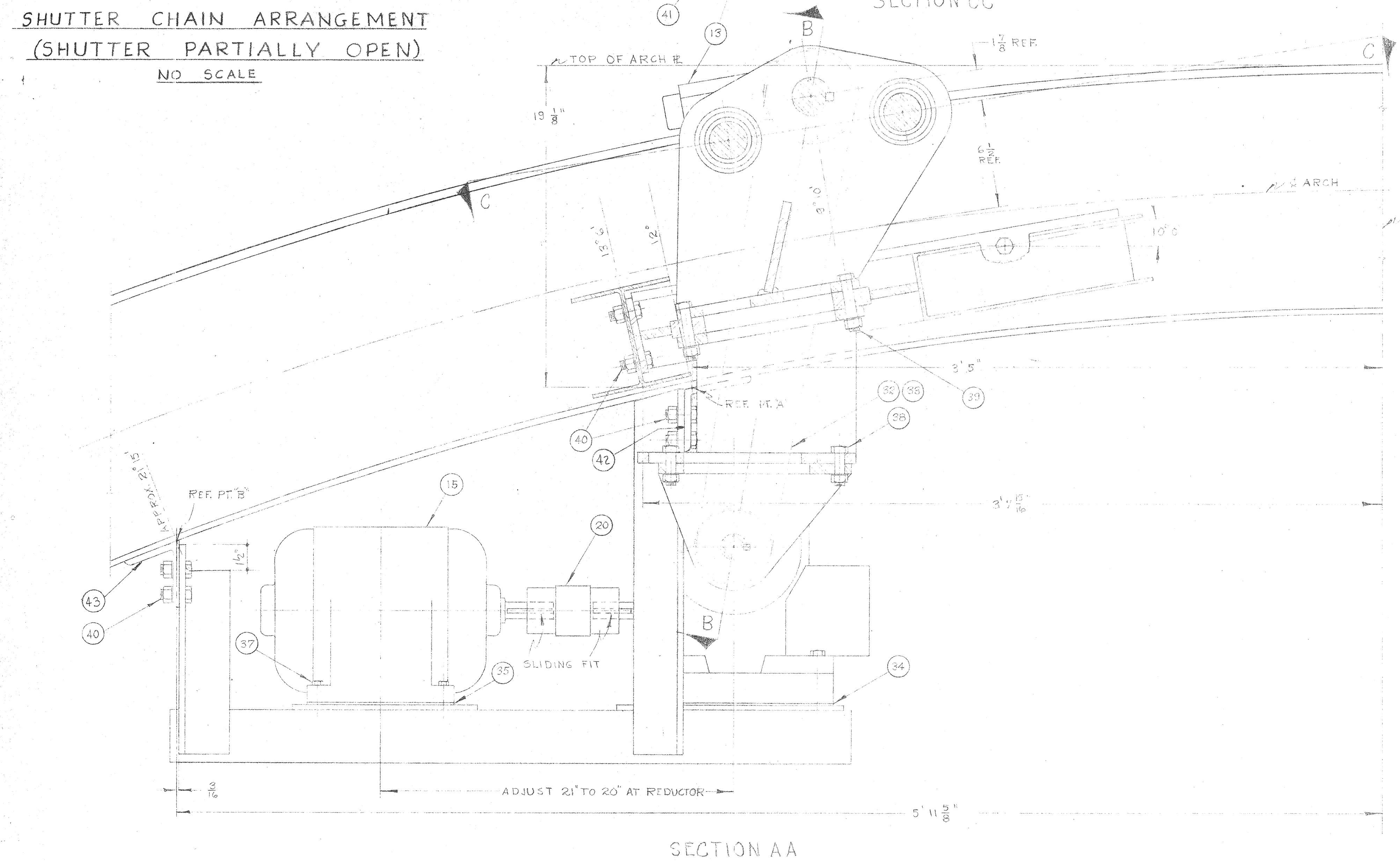
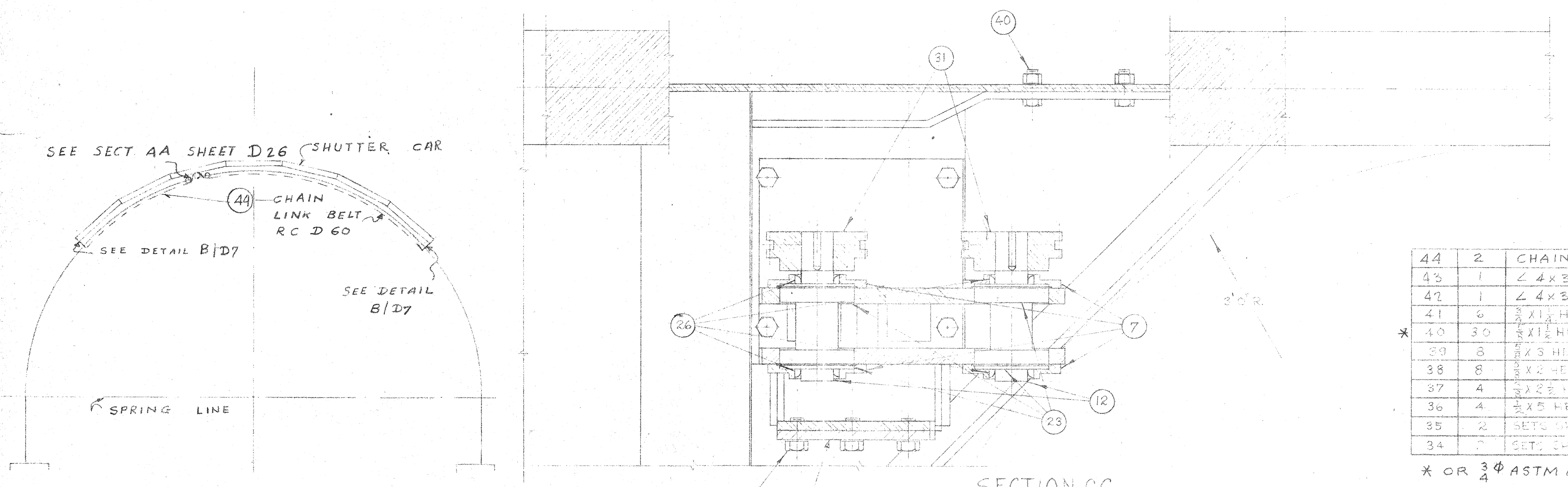
ISSUE DATE: 10-7-61  
 COMMISSION: 6-1859  
 DRAWING: D-25

SHUTTER DRIVE ASSEMBLY LIST

ITEM NO.	NO. REQ.	DETAIL NO.	DESCRIPTION
1	2	A/D-27	TOP PEDESTAL - ONE AS SHOWN, ONE OPPOSITE
2	2	B/D-27	PEDESTAL SUPPORT - ONE AS SHOWN, ONE OPPOSITE
3	2	C/D-28	BOTTOM PEDESTAL - ONE AS SHOWN, ONE OPPOSITE
4	1	D/D-28	MOTOR & REDUCTOR SUPPORT
5	2	E/D-28	PEDESTAL SUPPORT B. - ONE AS SHOWN, ONE OPPOSITE
6	4	F/D-28	SEAL RETAINER FOR ITEM 11
7	2	G/D-28	SEAL RETAINER FOR ITEM 10
8	2	H/D-28	SEAL RETAINER FOR ITEM 10
9	2	I/D-28	SPACER FOR REDUCTOR
10	1	J/D-28	REDUCTOR DRIVE SHAFT
11	2	K/D-28	DRIVEN SPROCKET SHAFT
12	4	L/D-28	IDLER SPROCKET SHAFT
13	2	M/D-27	DOUBLE ACTING BUMPER, RICHARD WILLY TYPE
14			
15	1		G.E. MOTOR TYPE KOS, FRAME 225, SHE, 110 BRV, 115/220 VOLTS, SINGLE PHASE, 60 CYCLES, BALL BEARING, OPEN, 40° RISE, HORIZONTAL
16			115/220 VOLTS, SINGLE PHASE, 60 CYCLES, BALL BEARING, OPEN, 40° RISE, HORIZONTAL
17			
18	1		STARTER - SUITABLE FOR ABOVE MOTOR - OR TOP
19	1		BOSTON REDUCTOR MOD. T138F MOUNTING - CAT. NO. 101
20	1		BOSTON COUPLING CAT. NO. FCBB50 1 HOLE
21	1		BOSTON COUPLING CAT. NO. FCBB50 1 1/2 HOLE
22	2		FAFNIR BALL BRG - 308 WDG
23	4		FAFNIR BALL BRG - 309 WDG
24	4		FAFNIR BALL BRG - 310 WDG
25	2		NATIONAL SEAL # 50423 (22 SHAFT)
26	3		NATIONAL SEAL # 50923 (1 1/2 SHAFT)
27	4		NATIONAL SEAL # 50455 (1 1/2 SHAFT)
28	2		LINK BELT RCD 50-21T DOUBLE TYPE B, 1 1/2 BORE, KEY
29	2		LINK BELT RCD 50-21T DOUBLE TYPE B, 2 1/2 BORE, KEY
30	2		LINK BELT RCD 60-21T DOUBLE TYPE B, 1 1/2 BORE, KEY
31	4		LINK BELT RCD 60-21T DOUBLE TYPE B, 1 1/2 BORE, KEY
32	2		LINK BELT RCD 50 ROLLER CHAIN III FITTING, 1/2 IN. CONN.
33	2		LINK BELT RCD 50 OFFSET LINK

44	2	CHAIN, LINK BELT RCD 60
43	1	Z 4x3x3/8 SEE D-29
42	1	Z 4x3x3/8 SEE D-29
41	6	3/8 X 1 1/2 HEX. HD. MACH. BOLTS W/H.N. S.L.W. 16 N.F.
40	30	3/8 X 1 1/2 HEX. HD. MACH. BOLTS W/H.N. S.L.W.
39	8	3/8 X 3 1/2 HEX. HD. MACH. BOLTS W/H.N. S.L.W.
38	8	3/8 X 2 1/2 HEX. HD. MACH. BOLTS W/H.N. S.L.W.
37	4	3/8 X 2 1/2 HEX. HD. MACH. BOLTS W/H.N. S.L.W.
36	4	3/8 X 5 HEX. HD. MACH. BOLTS W/H.N. S.L.W.
35	2	SETS CHIMS 2" X 1 1/2", TOTAL THICK (1-1/2" & 1-1/2") (OF MOTOR)
34	7	SETS CHIMS 2 1/2" X 1 1/2", TOTAL THICK (1-1/2" & 2-1/2") (OF REDUCTOR)

\* OR 3/4" ASTM A-325, TO SUIT STRUCTURAL



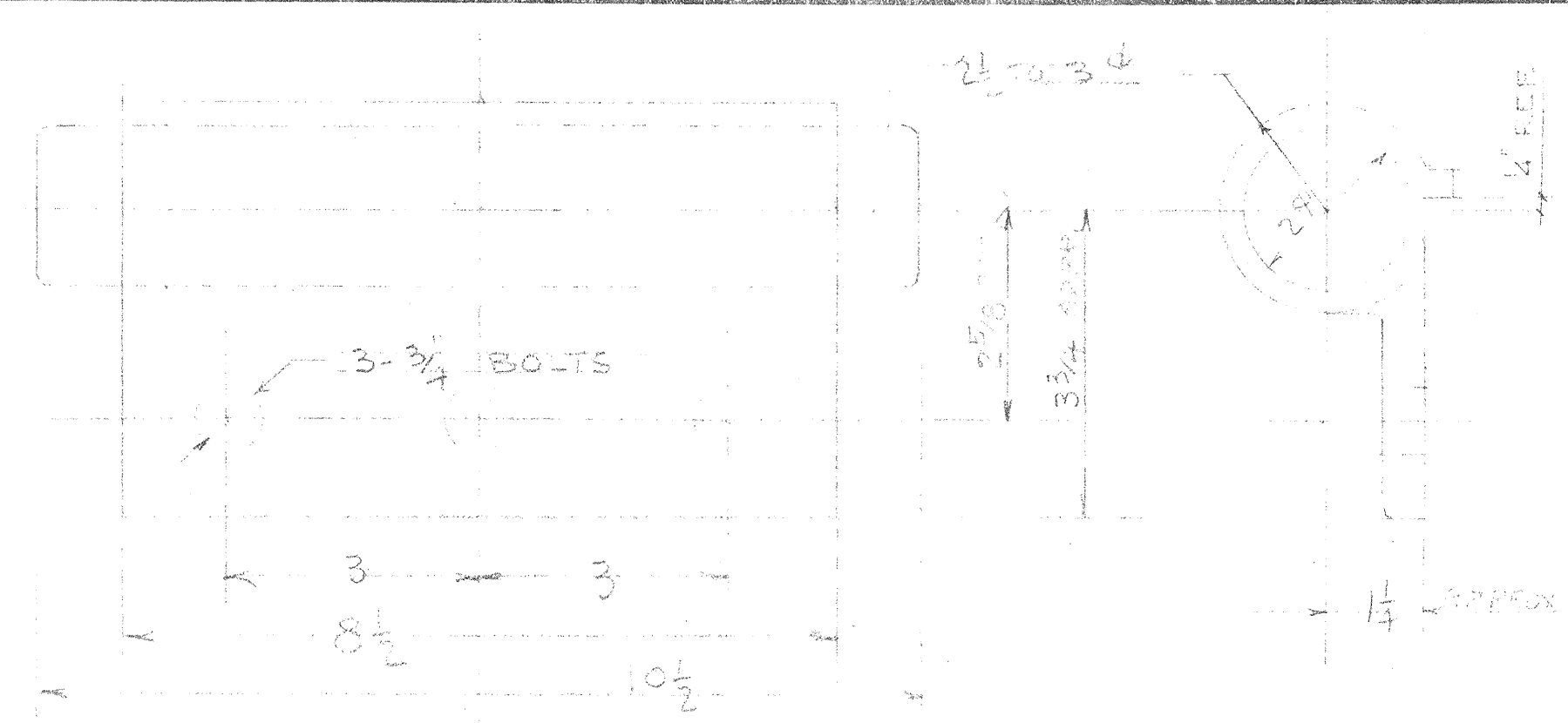
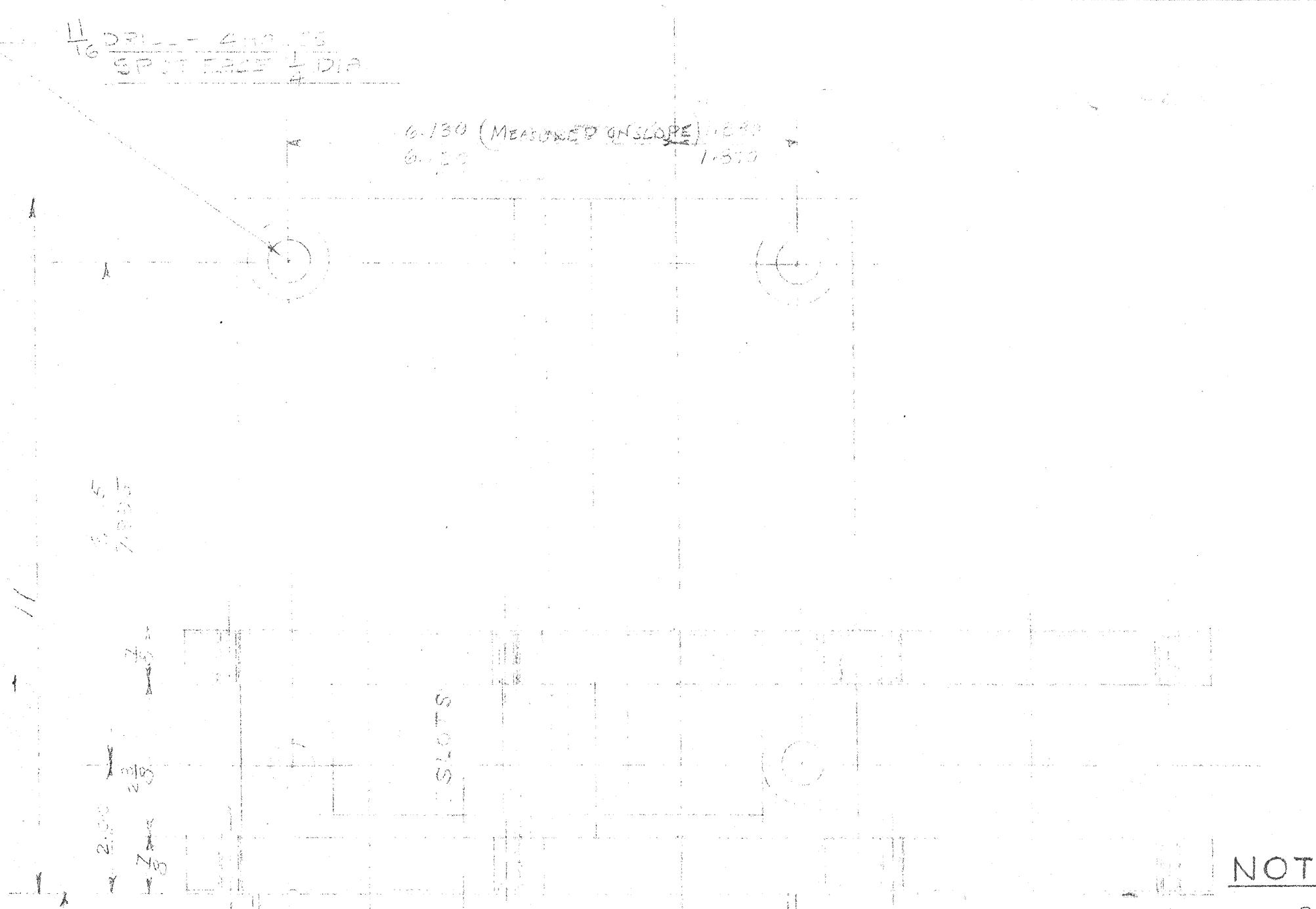
WILLIAM WILDE ARCHITECT AIA  
 ARCHITECTURE, INDUSTRIAL DESIGN, SPACE PLANNING  
 181 SOUTH TUCSON BOULEVARD, TUCSON, ARIZONA, EA 6-3373  
THIS DRAWING IS THE PROPERTY OF WILLIAM WILDE, IT CAN BE USED ONLY WITH THE PERMISSION OF WILLIAM WILDE. AFTER WHICH IT SHALL BE RETURNED TO HIS OFFICE.

STEWART OBSERVATORY  
 UNIVERSITY OF ARIZONA  
 KIT PEAK

SHUTTER DRIVE  
 ASSEMBLY

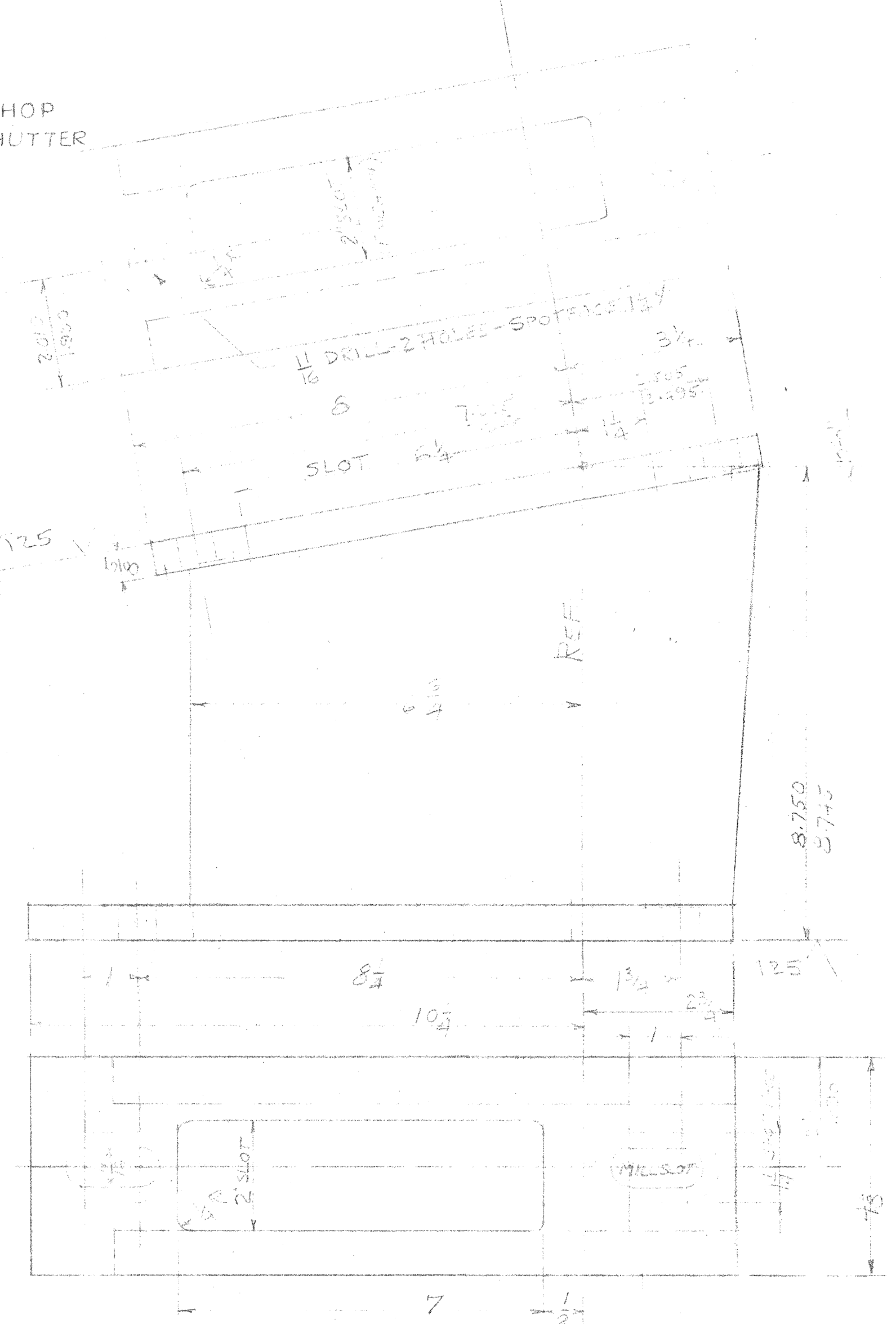
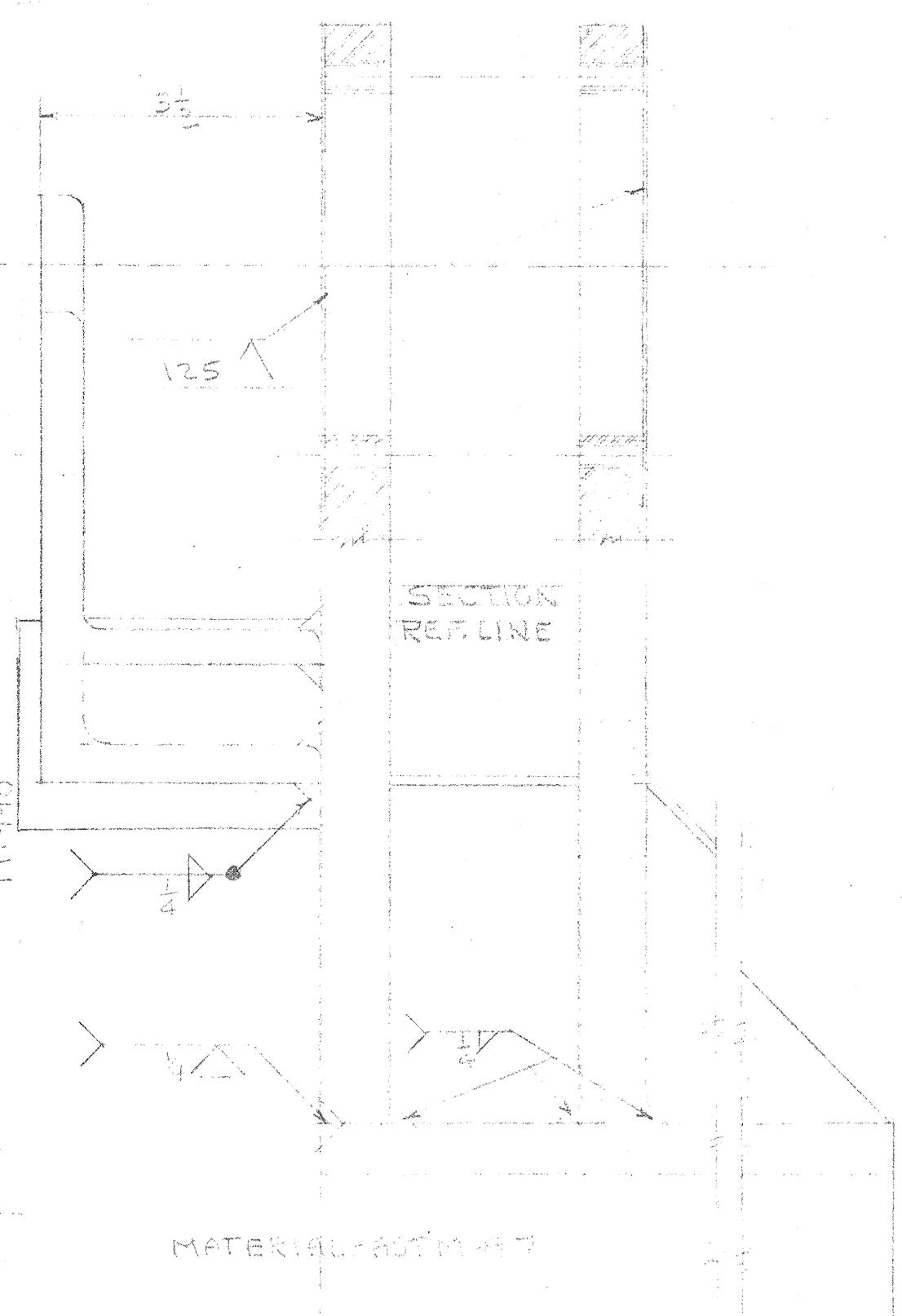
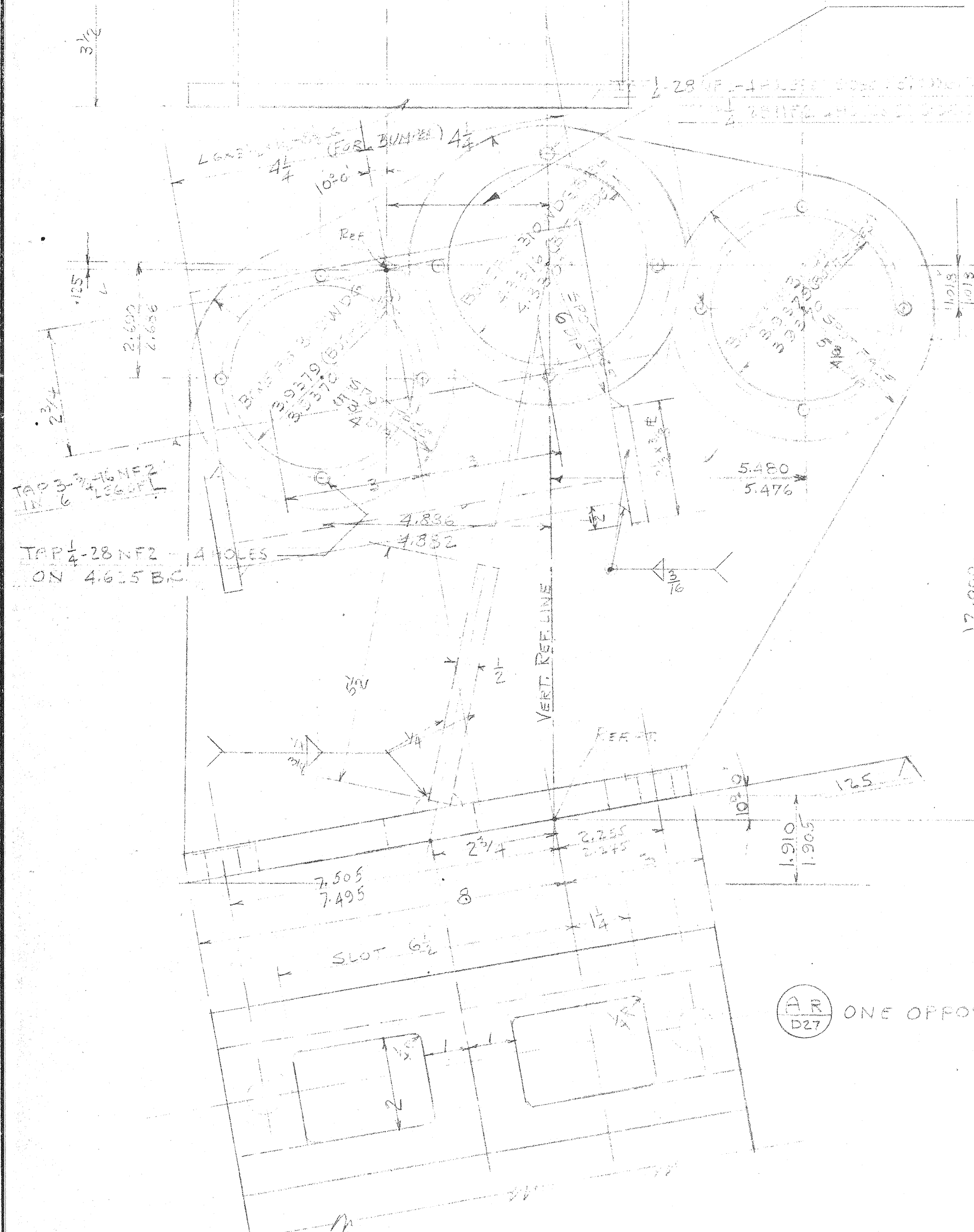
DRAWING 10-2-6  
 ISSUE DATE 6-15-54  
 COMMISSION





BUY RICHARDS-WILCOX TOP CENTER 584 13  
2 REQ. THEIR DRAWING 25047-W-15#82

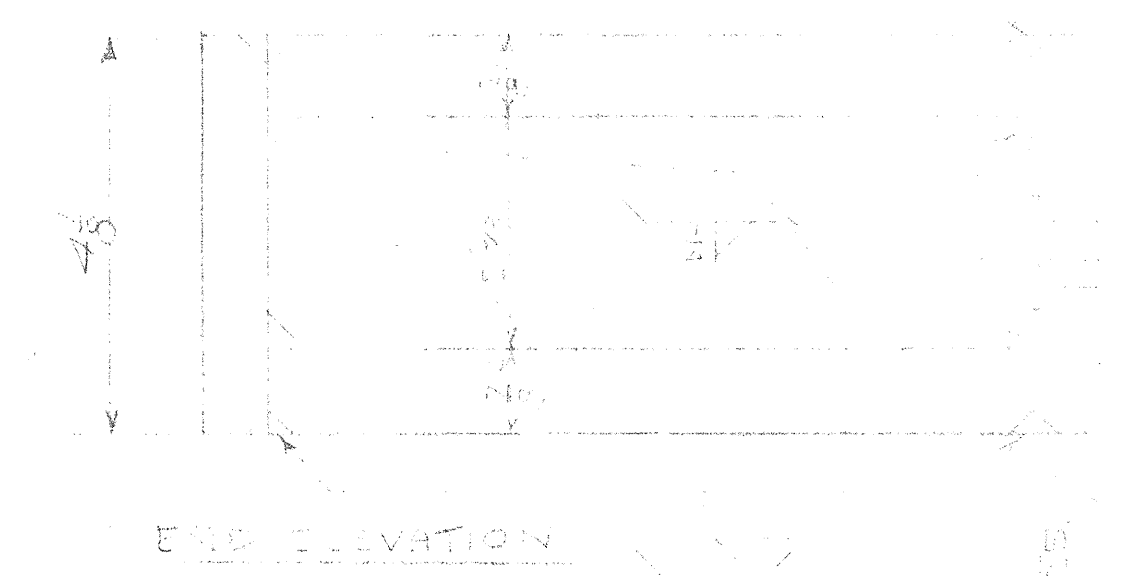
NOTE:  
3/2 TO  $\phi$  OF BUMPER AS SCALED  
ON DESIGN LAYOUT  
CONTRACTOR SHOULD VERIFY WITH SHOP  
DRAWINGS FOR PROPER CLOSURE OF SHUTTER



PEDESTAL 5 1/2\"/>

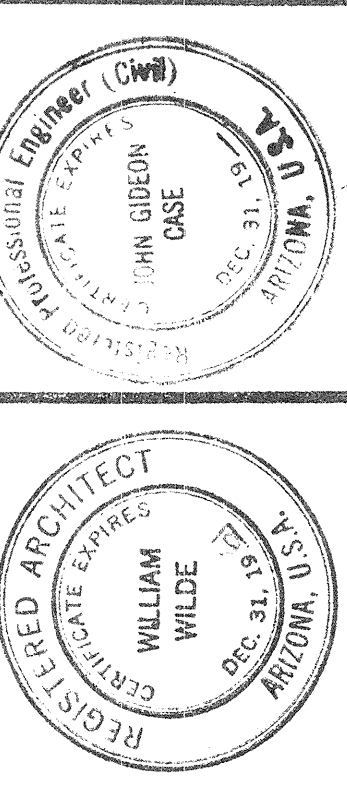
A/B D-27 ONE OPPOSITE

A/B D-27



SHUTTER DRIVE  
DETAILS - I

STEWARD OBSERVATORY  
UNIVERSITY OF ARIZONA  
KIT PEAK

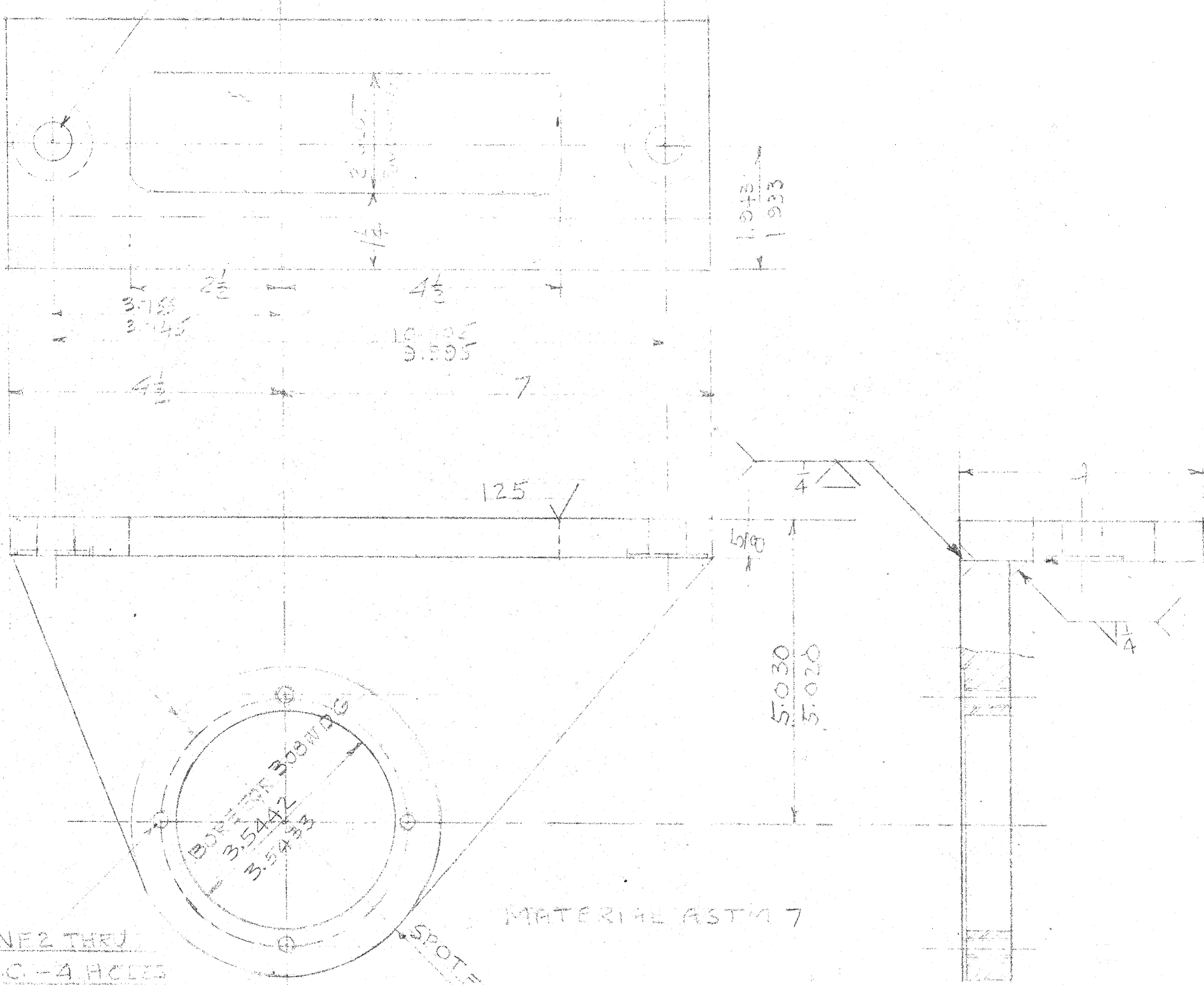


AIA  
WILLIAM WILDE ARCHITECT  
ARCHITECTURE - INDUSTRIAL DESIGN - SPACE PLANNING  
151 SOUTH TUCSON BOULEVARD - TUCSON, ARIZONA - EA 5-3373

DRAWING  
ISSUE DATE  
10-2-61  
COMMISSION  
6-1854

027

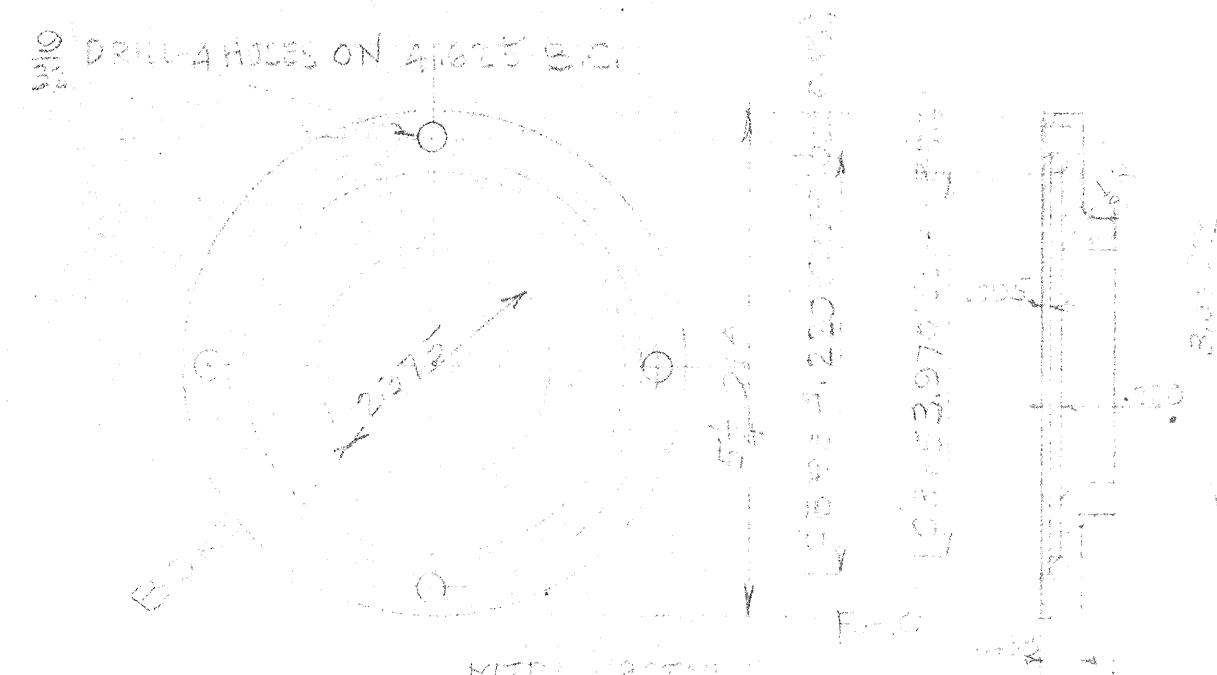
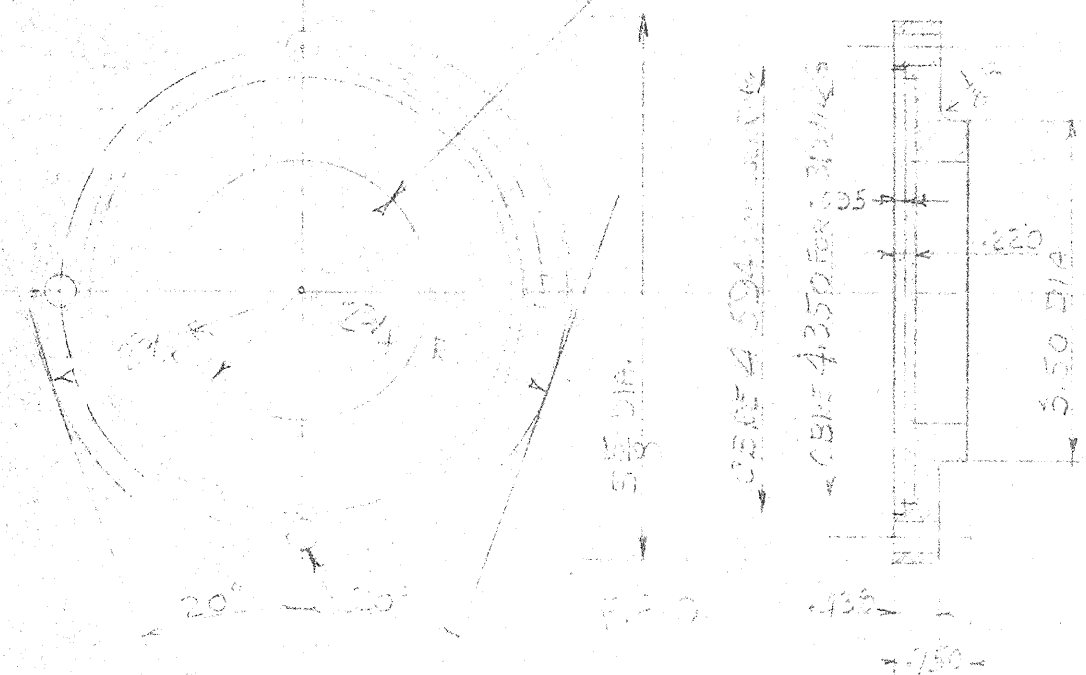
1/8 DRILL HOLES SPST. PCO 1 1/4 DIA.



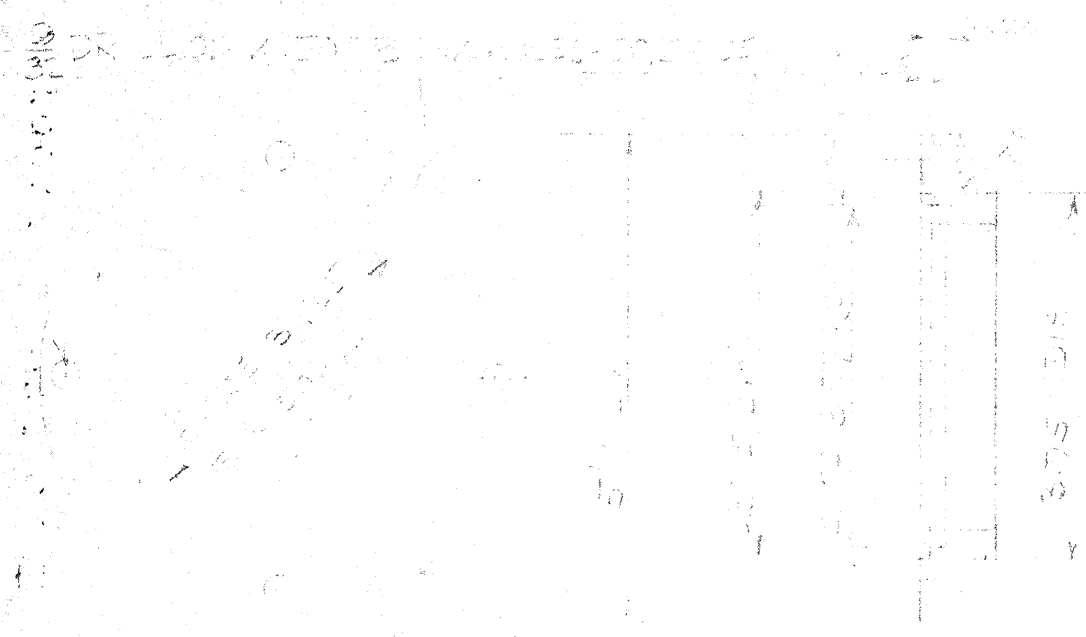
TOP 1/8 DRILL HOLES ON 2.500 B.C. - 4 HOLES

BOTTOM PEDESTAL - 2 REOD - ONE AS SHOWN (CR) ONE OPPOSITE HAND (CL) D-28

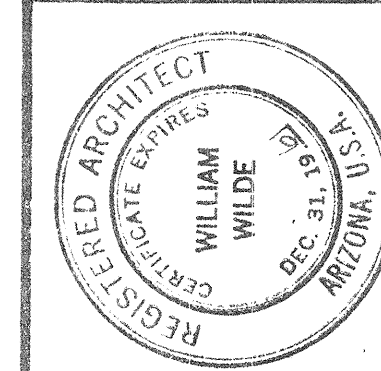
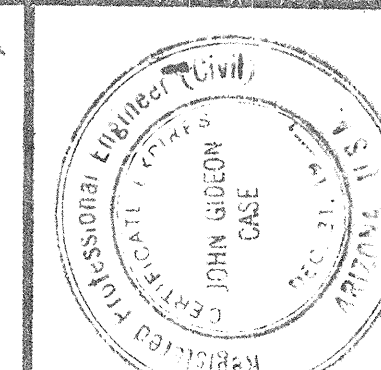
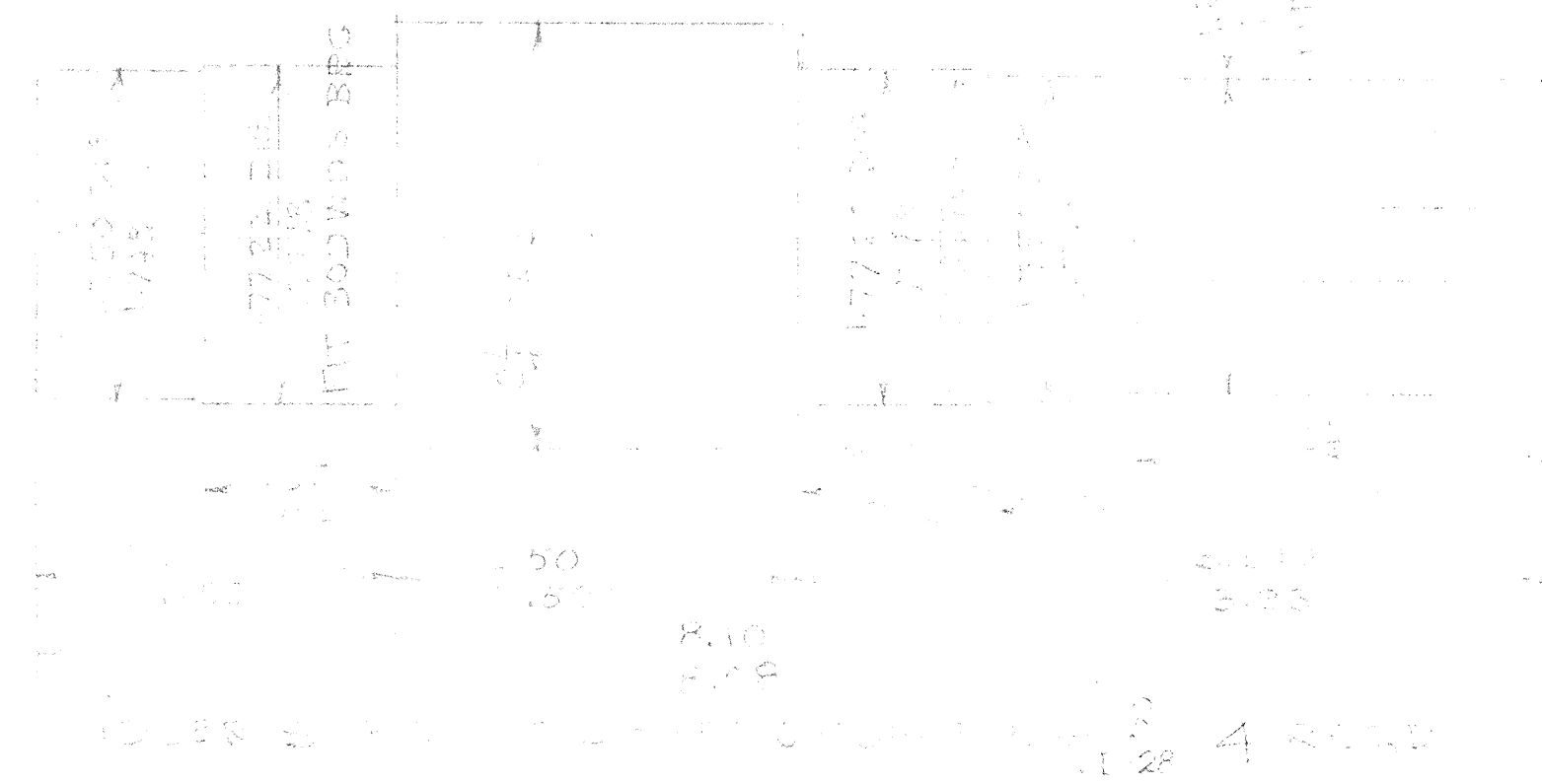
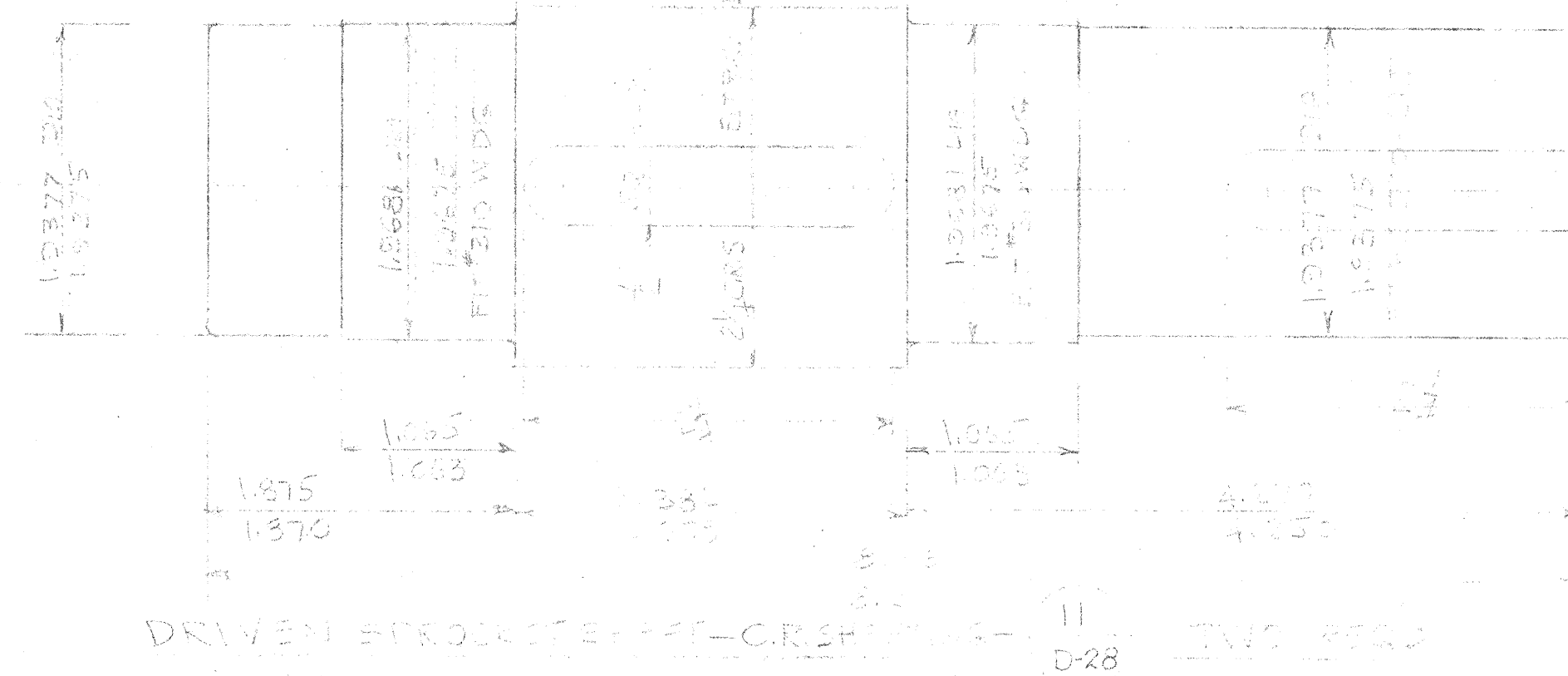
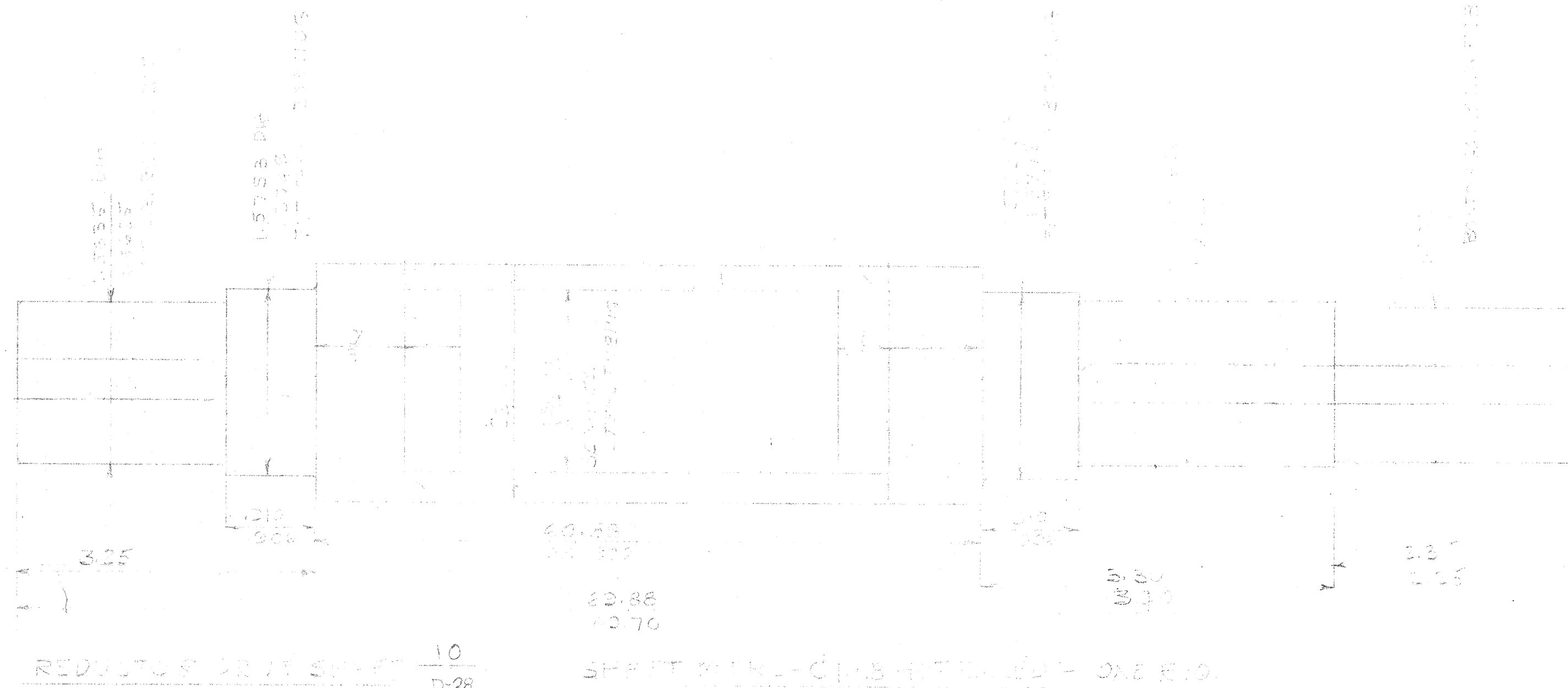
BORH 2.625 FOR 30155 IN SEAL



MATERIAL 30155 1/4 DIA. DRILL HOLES ON 2.500 B.C. - 4 HOLES D-28



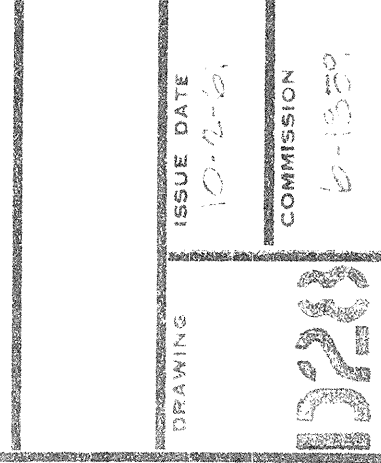
MATERIAL 30155 1/4 DIA. DRILL HOLES ON 2.500 B.C. - 4 HOLES D-28

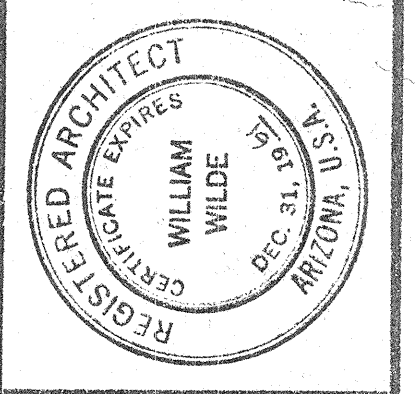
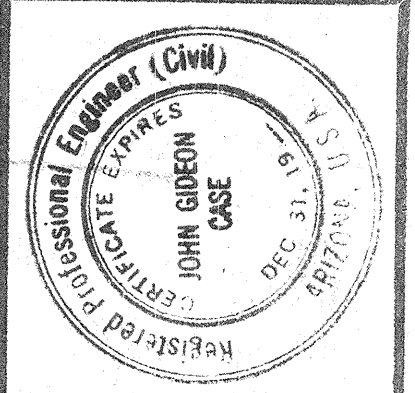
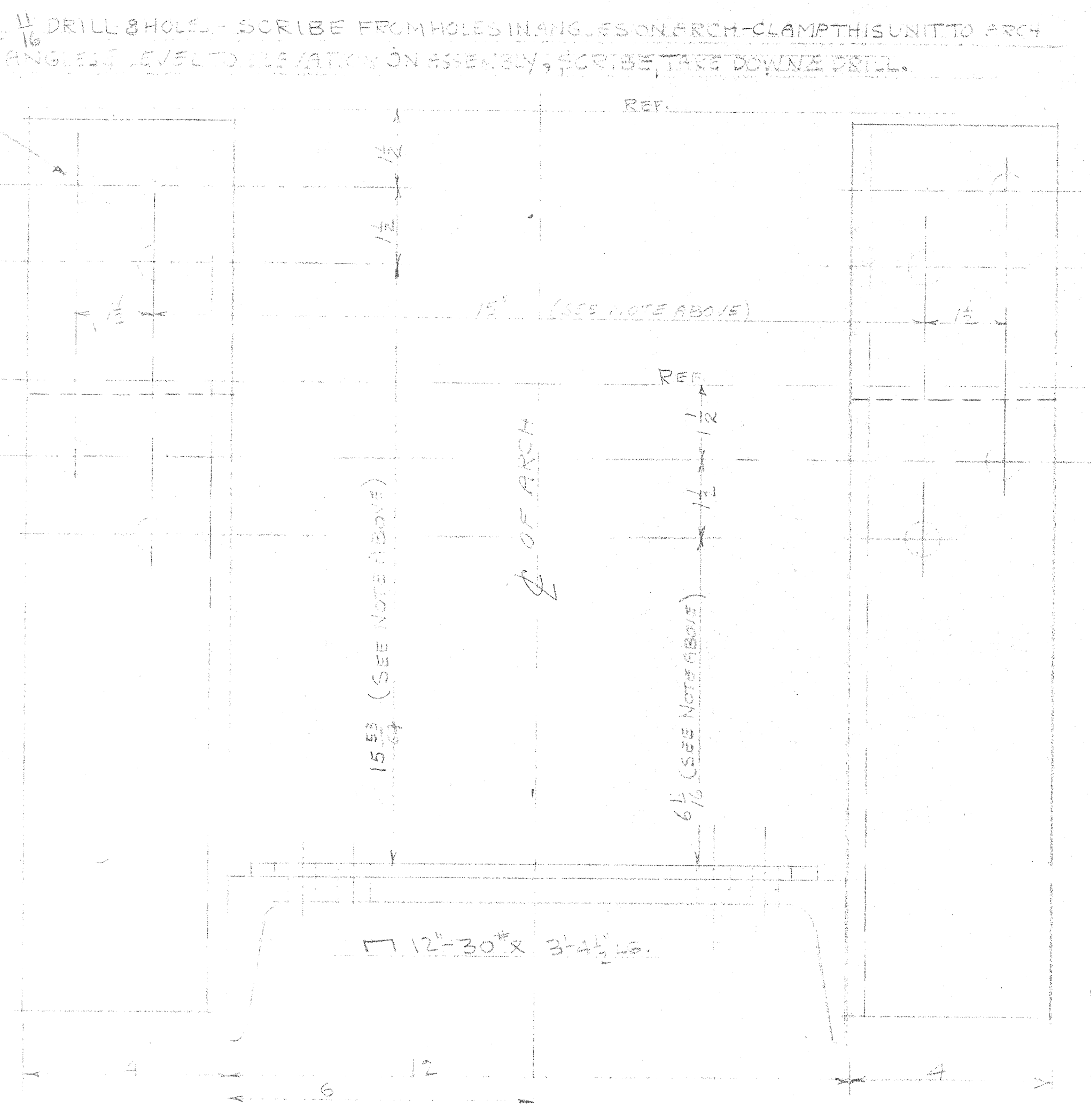
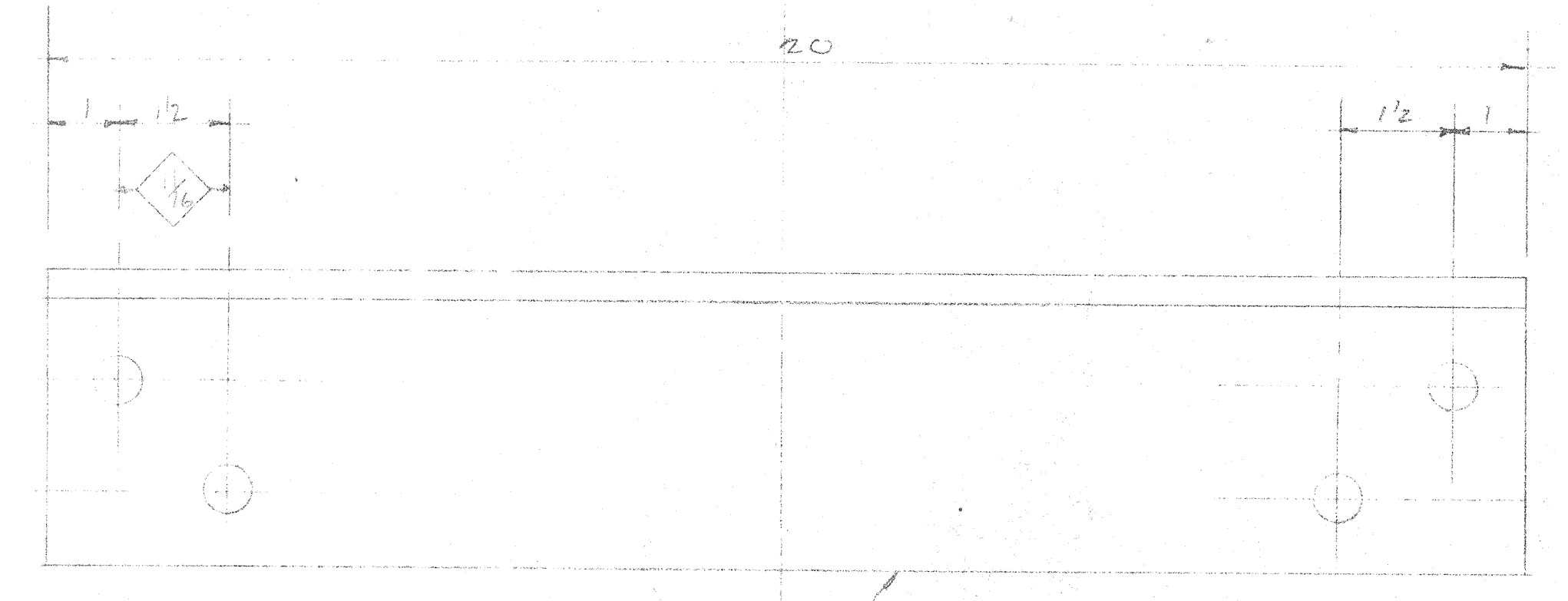
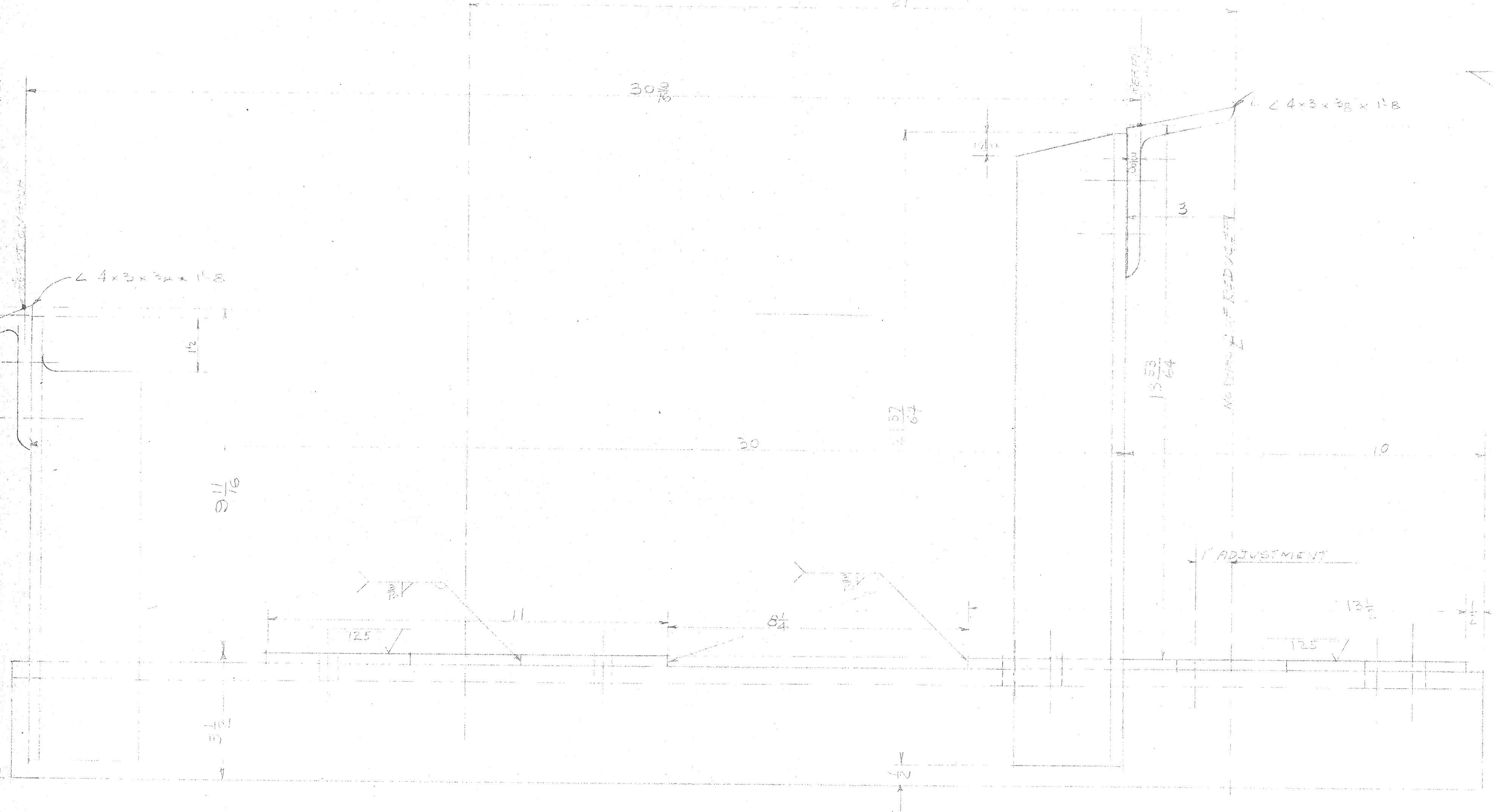
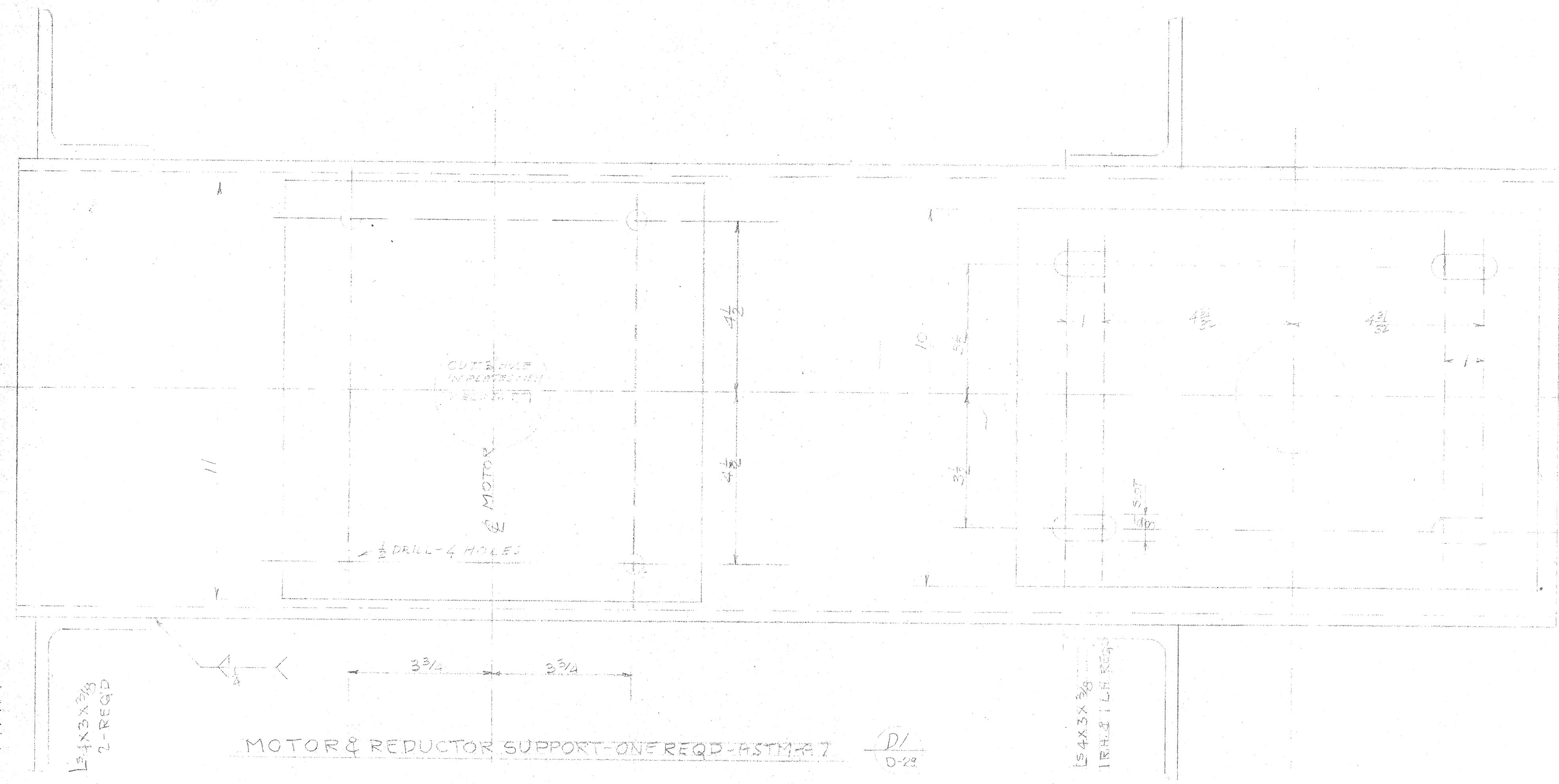


**WILLIAM WILDE ARCHITECT AIA**  
 ARCHITECTURE · INDUSTRIAL DESIGN · SPACE PLANNING  
 151 SOUTH TUCSON BOULEVARD · TUCSON, ARIZONA · FA 8-3572  
THIS DRAWING IS A PRELIMINARY OF ARCHITECT'S SERVICE IN THE PROJECTS OF WILLIAM WILDE. IT CAN BE USED ONLY WITH HIS PERMISSION FOR PURPOSE DESCRIBED HEREIN, AFTER WHICH IT SHALL BE RETURNED TO HIS OFFICE.

**STEWART OBSERVATORY  
 UNIVERSITY OF ARIZONA  
 KITT PEAK**

**SHUTTER DRIVE  
 DETAILS - II**





**WILLIAM WILDE ARCHITECT AIA**  
 ARCHITECTURE · INDUSTRIAL DESIGN · SPACE PLANNING  
 151 SOUTH TUCSON BOULEVARD · TUCSON, ARIZONA · EA 5-3375  
THIS DRAWING IS PROPERTY OF ARCHITECT. SERVICE IS THE PROPERTY OF WILLIAM WILDE. IT OR ANY PART THEREOF IS TO BE KEPT IN CONFIDENCE AND NOT TO BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM, WITHOUT THE WRITTEN PERMISSION OF ARCHITECT.

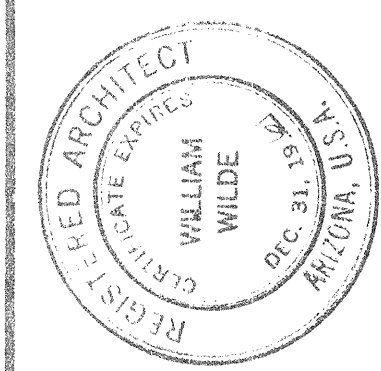
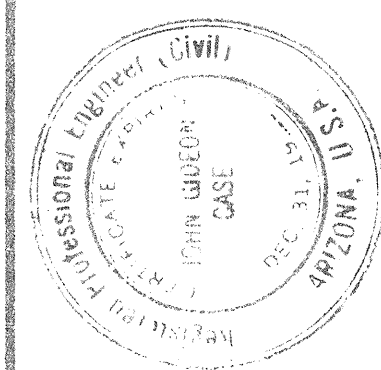
STEWARD OBSERVATORY  
 UNIVERSITY OF ARIZONA  
 KITT PEAK

SHUTTER DRIVE  
 DETAILS - III

DRAWING 029  
 ISSUE DATE 10-2-61  
 COMMISSION 6-1853



PEDESTAL SUPPORT PLATE - ONE AS SHOWN, ER - ONE OPPOSITE SIDE  
 MATERIAL ASTM A707 D-30  
 EL. 0-30



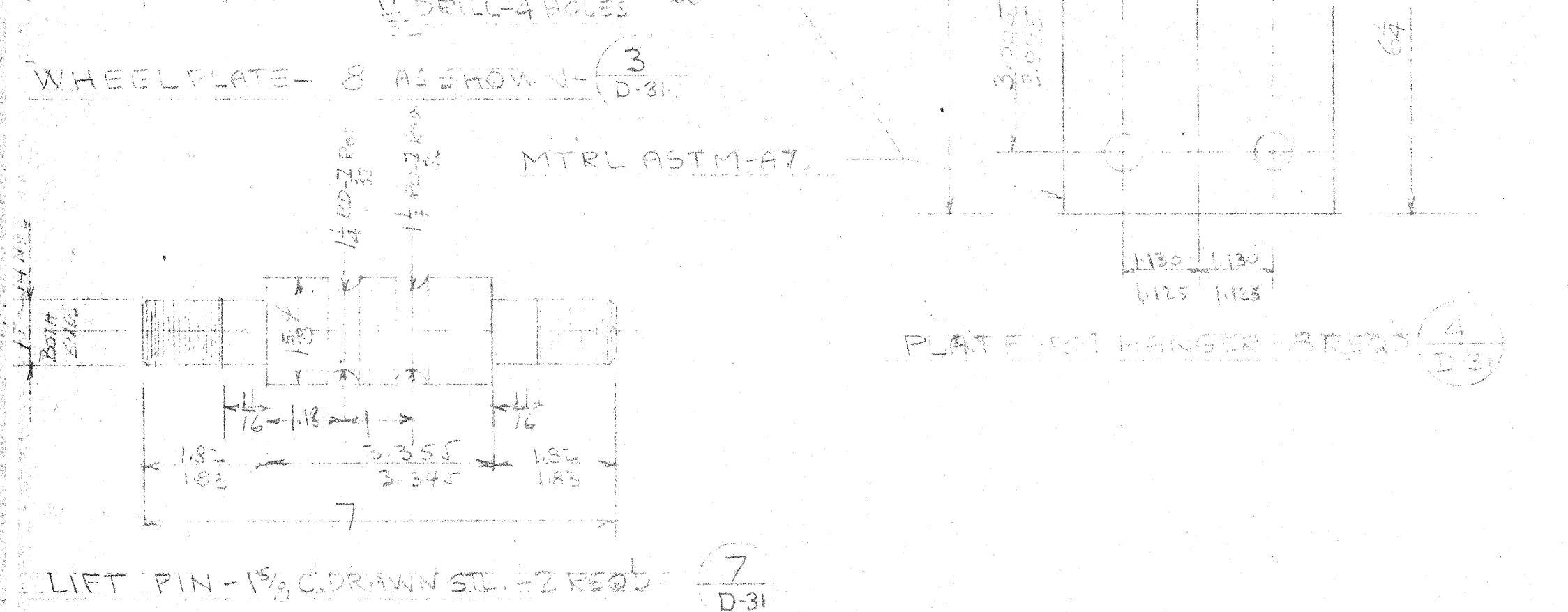
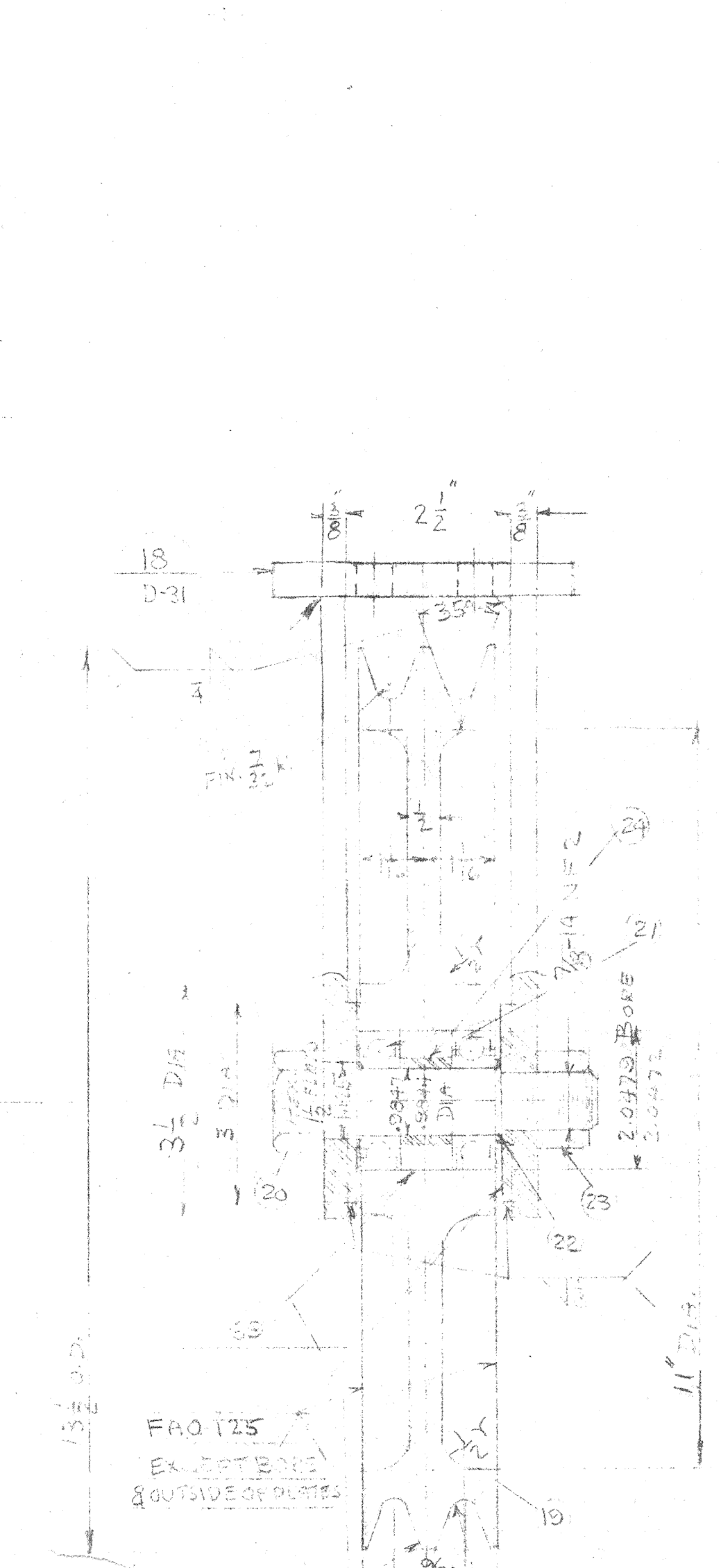
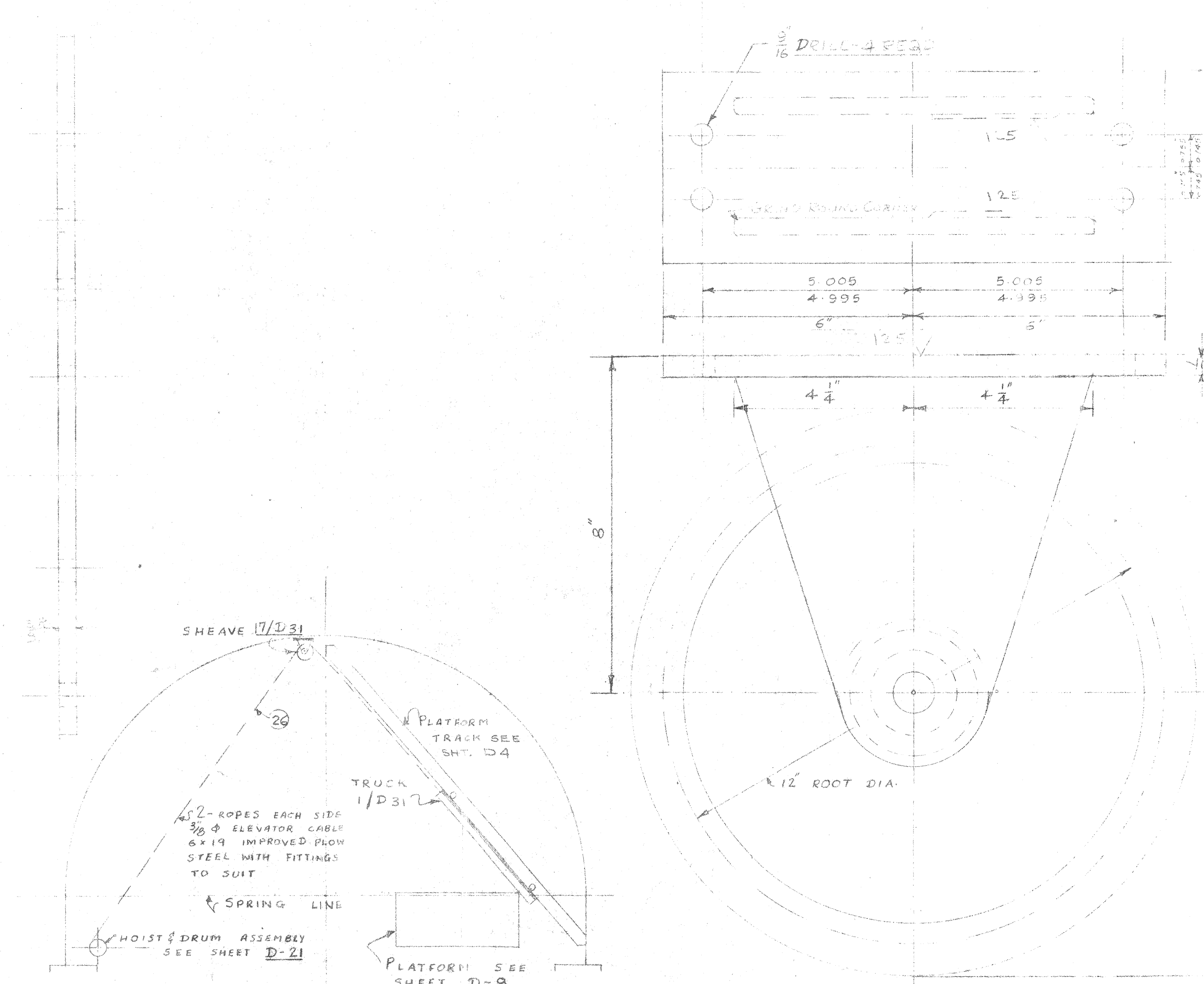
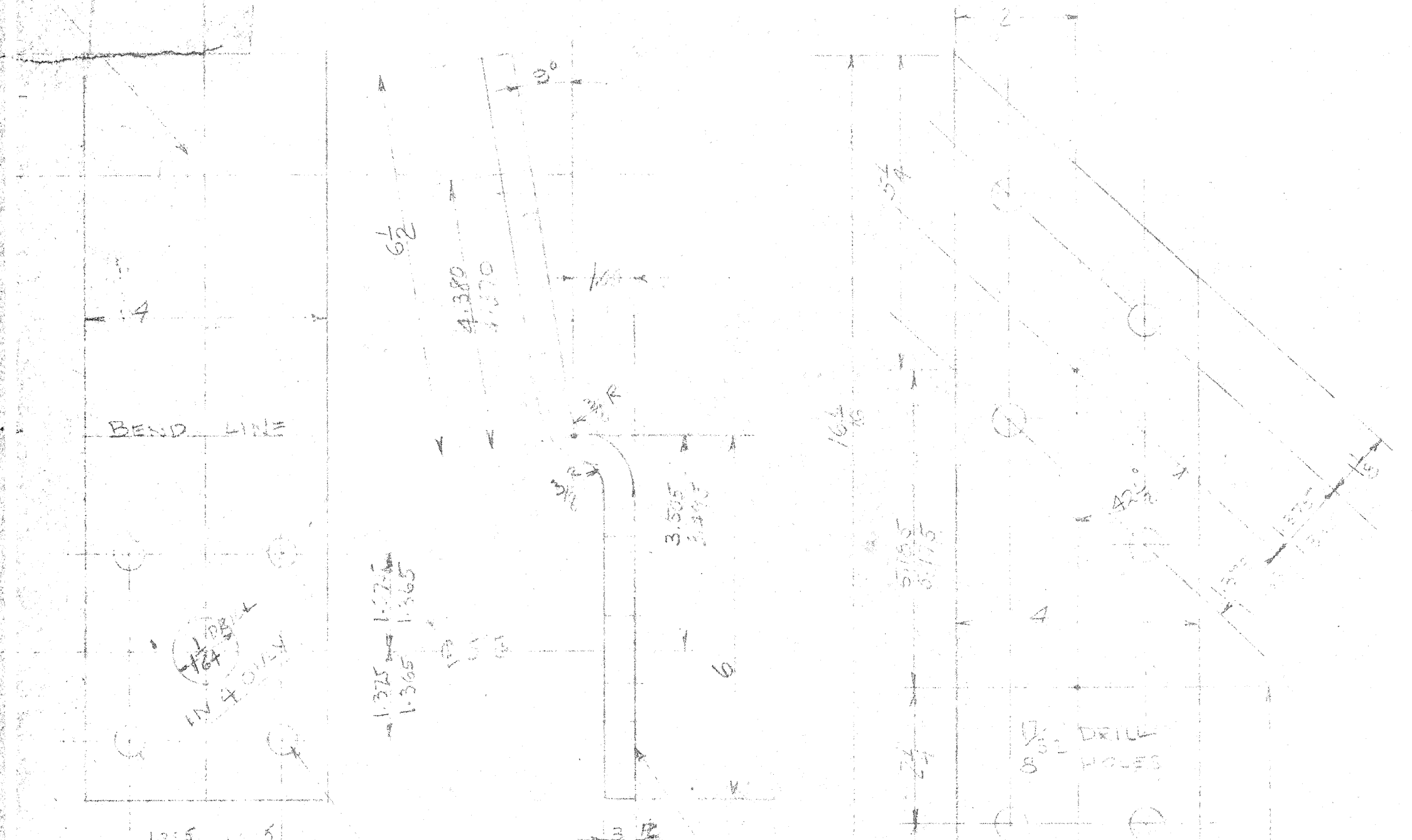
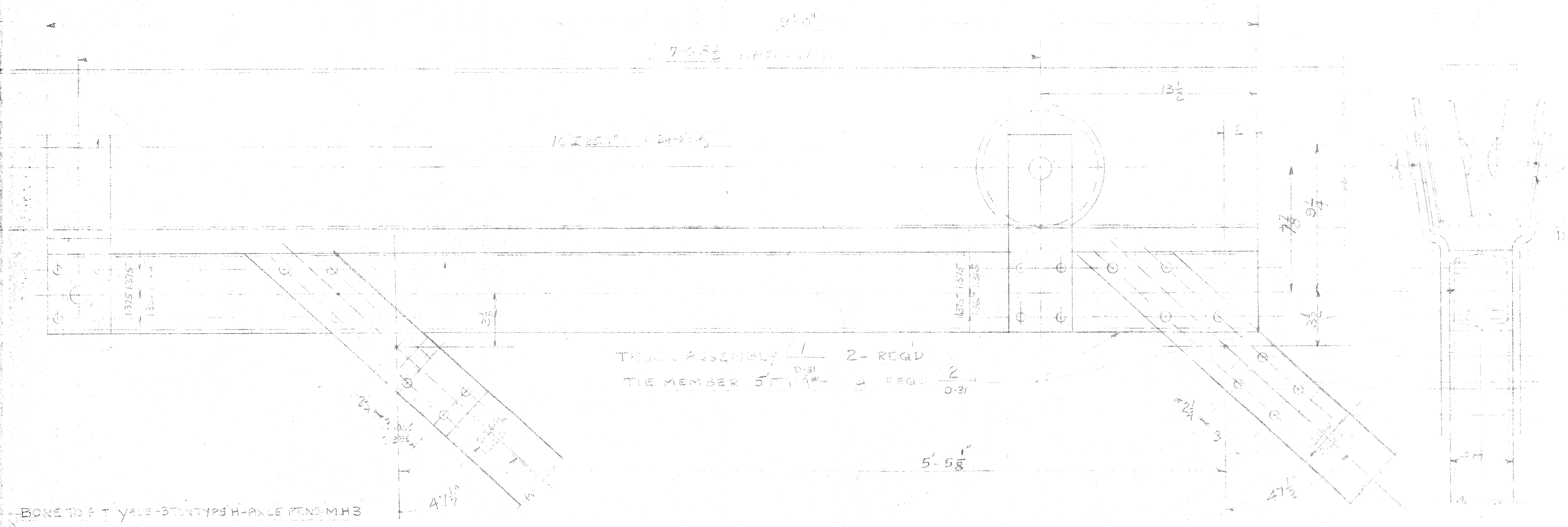
**WILLIAM WILDE ARCHITECT AIA**  
 ARCHITECTURE · INDUSTRIAL DESIGN · SPACE PLANNING  
 151 SOUTH TUCSON BOULEVARD · TUCSON, ARIZONA · EA 5-3373

STEWART OBSERVATORY  
 UNIVERSITY OF ARIZONA  
 KITT PEAK

SHUTTER DRIVE  
 DETAILS - IV

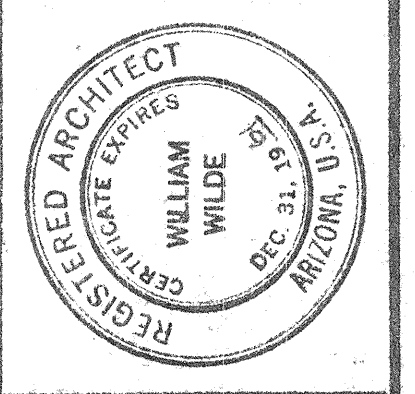
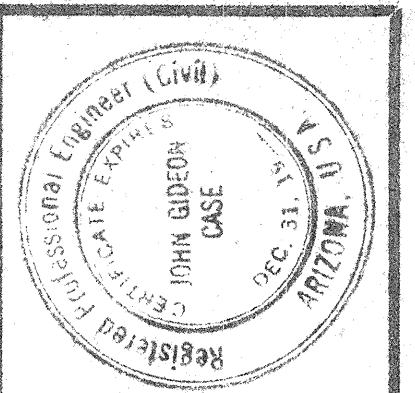
DRAWING  
 ISSUE DATE 10-2-61  
 COMMISSION 6-15-58  
**D30**

ITEM NO.	DESCRIPTION
1	TRUCK ASSEMBLY 1
2	TIE MEMBER 5" 2-REQD
3	WHEEL PLATE 8" ALUMINUM
4	LIFT PIN 1 1/8" C.D. DRAWN STL. 2-REQD
5	LIFT PIN 1 1/8" C.D. DRAWN STL. 2-REQD
6	WHEEL PLATE 8" ALUMINUM 2-REQD
7	LIFT PIN 1 1/8" C.D. DRAWN STL. 2-REQD
8	WHEEL PLATE 8" ALUMINUM 2-REQD
9	LIFT PIN 1 1/8" C.D. DRAWN STL. 2-REQD
10	WHEEL PLATE 8" ALUMINUM 2-REQD
11	LIFT PIN 1 1/8" C.D. DRAWN STL. 2-REQD
12	WHEEL PLATE 8" ALUMINUM 2-REQD
13	LIFT PIN 1 1/8" C.D. DRAWN STL. 2-REQD
14	WHEEL PLATE 8" ALUMINUM 2-REQD
15	LIFT PIN 1 1/8" C.D. DRAWN STL. 2-REQD
16	WHEEL PLATE 8" ALUMINUM 2-REQD
17	SHEAVE ASSEMBLY 1
18	BRACKET 1/2" X 1/2" X 1/2"
19	127 SHEAVE WITH 2 WIRE ROPE BEARING SURFACE
20	AXLES 1 1/2" DIA. X 5" LONG 1018 B. STL.
21	SPRINGS 1/2" X 1/2" X 1/2"
22	SPRINGS 1/2" X 1/2" X 1/2"
23	1/2" X 1/2" X 1/2"
24	1/2" X 1/2" X 1/2"
25	1/2" X 1/2" X 1/2"
26	6" X 6" X 1/2" IMPROVED PLOW STEEL ELEVATOR CABLE



PLATFORM REEVING SKETCH  
NO SCALE

17/D-31 SHEAVE ASSEMBLY - 2 REQD



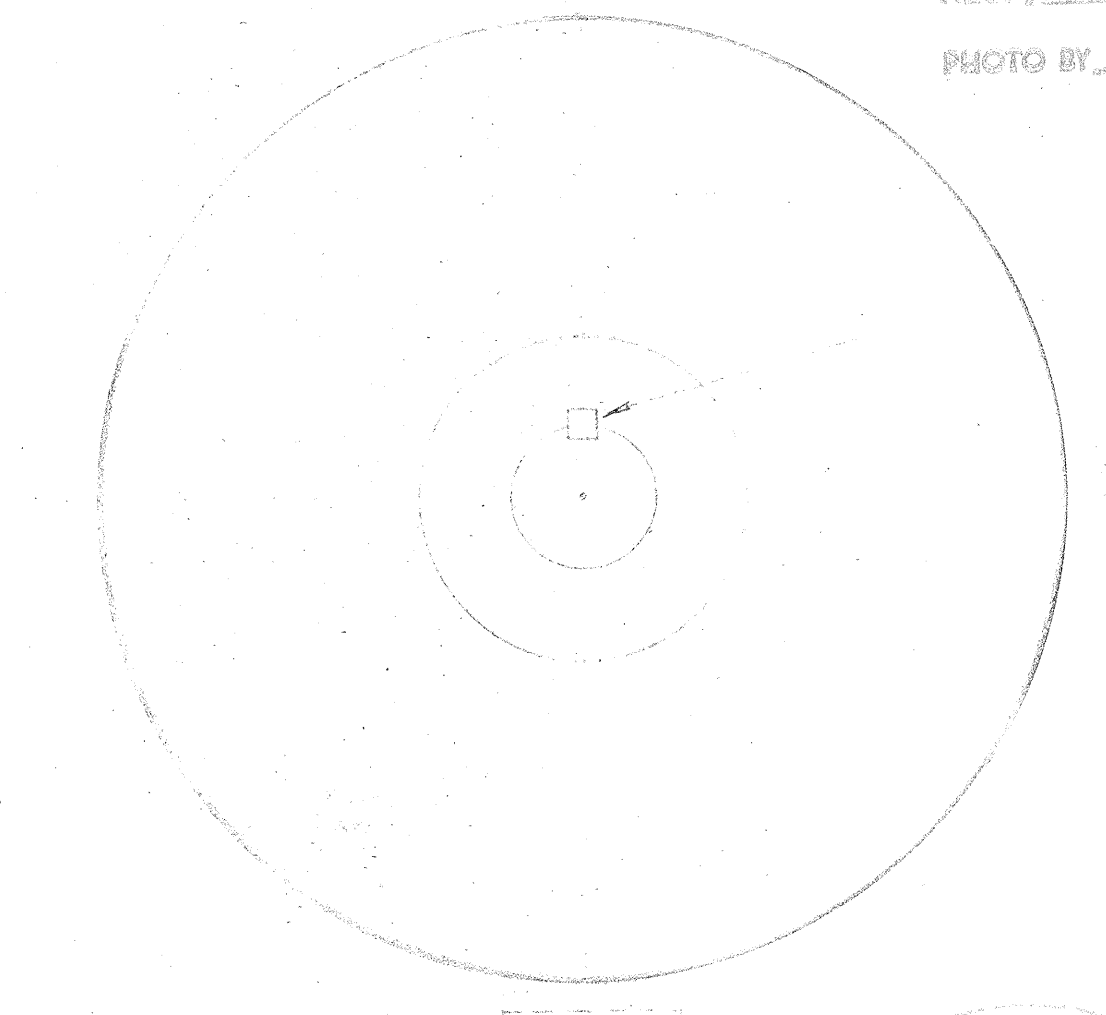
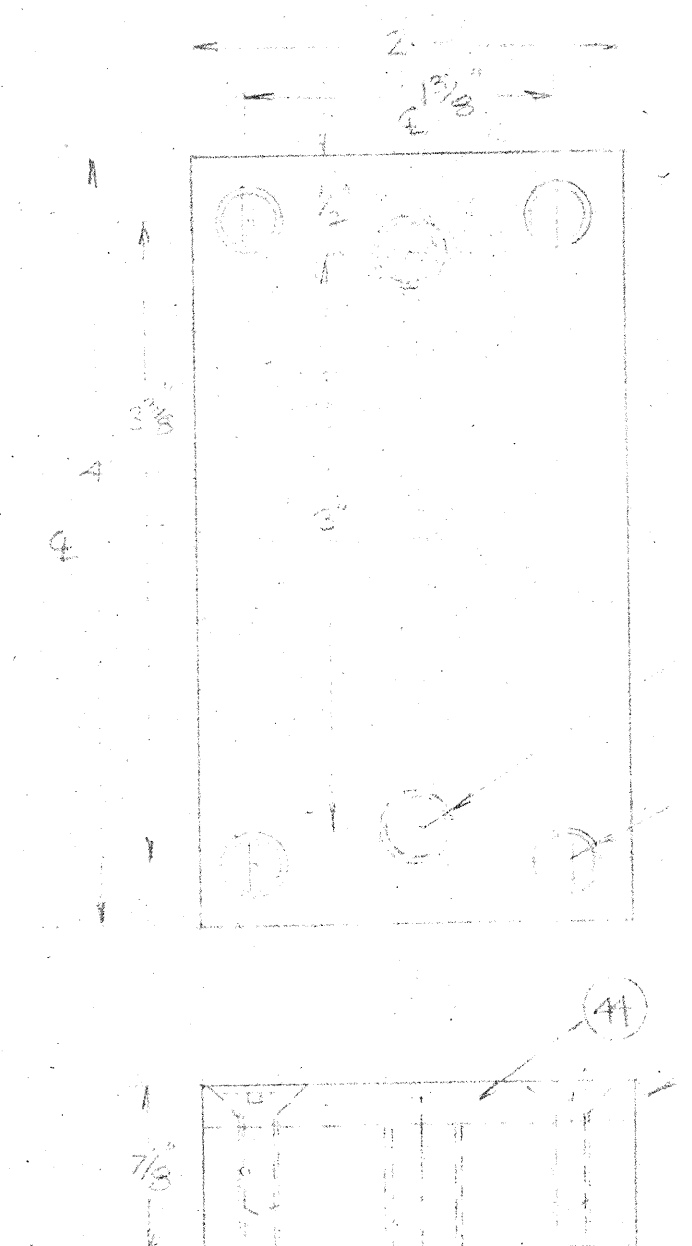
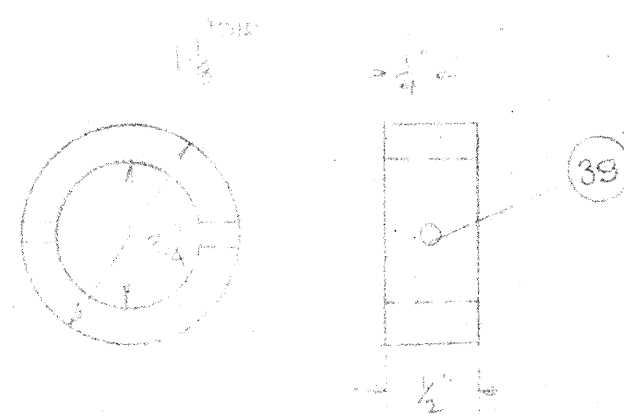
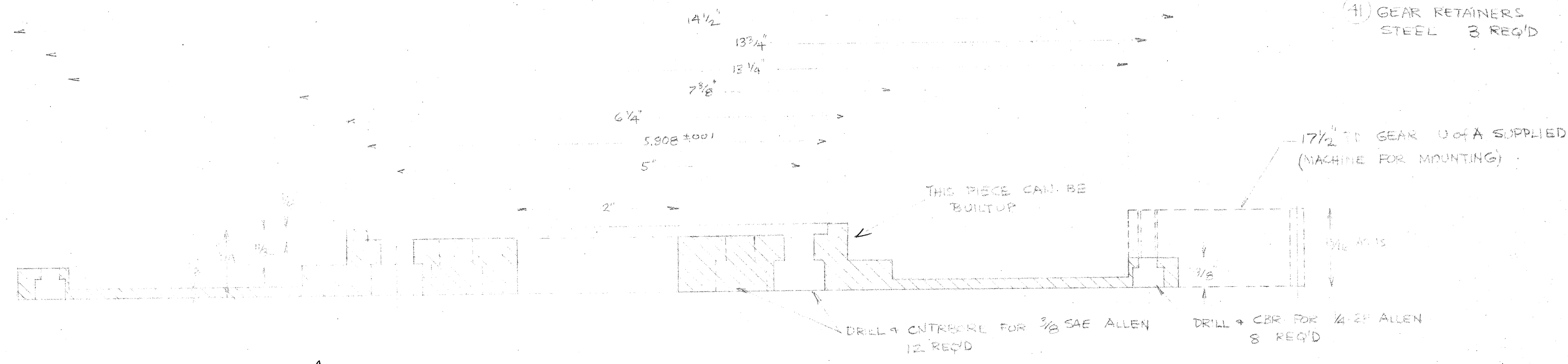
WILLIAM WILDE ARCHITECT AIA  
ARCHITECTURE - INDUSTRIAL DESIGN - SPACE PLANNING  
151 SOUTH TUCSON BOULEVARD - TUCSON, ARIZONA - EA 53373  
KITT PEAK

STEWART OBSERVATORY  
UNIVERSITY OF ARIZONA  
KITT PEAK

PLATFORM TRUCK  
ASSEMBLY

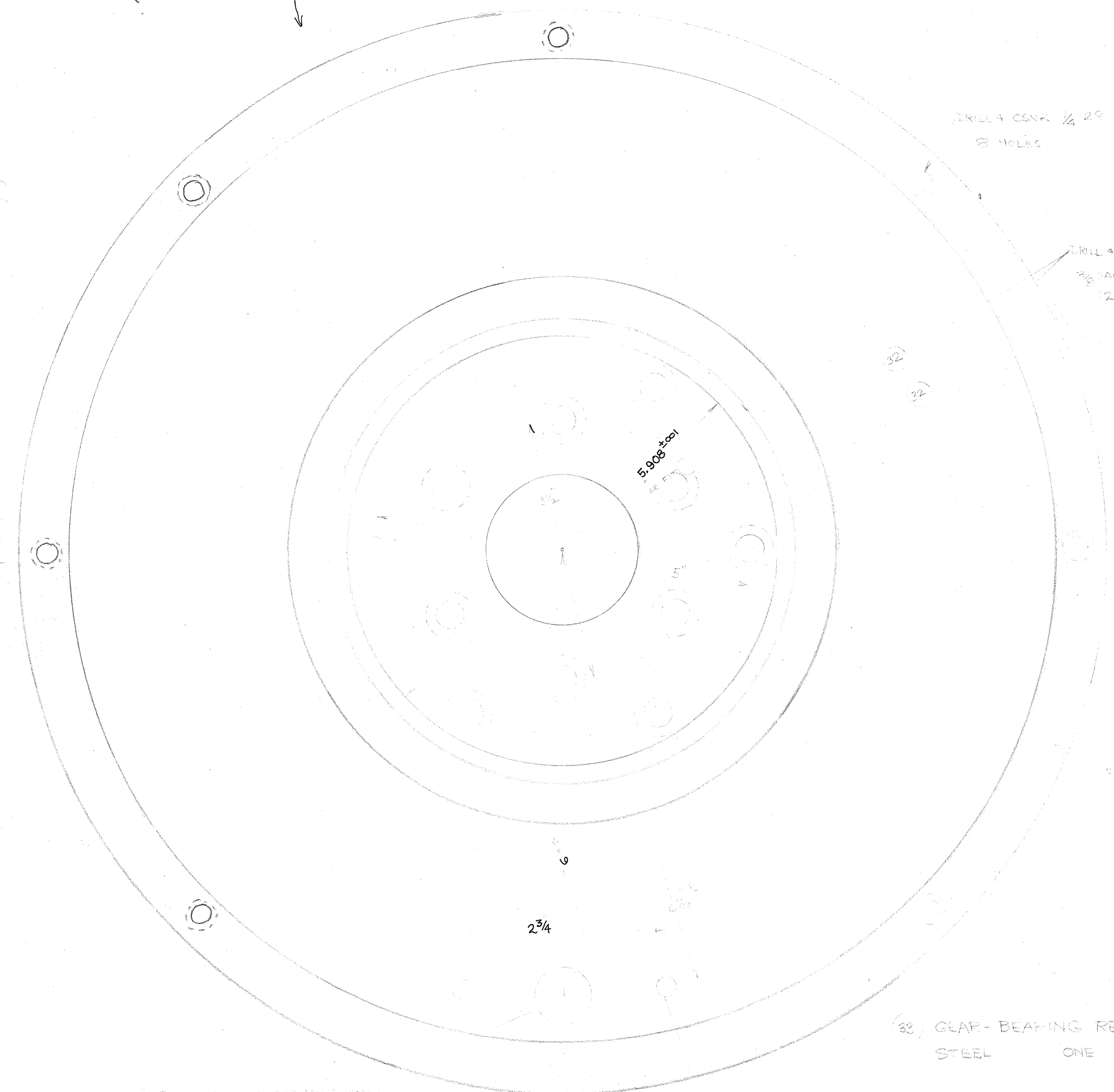
DRAWING NO.	D-31
ISSUE DATE	10-2-61
COMMISSION	6-1859

6"

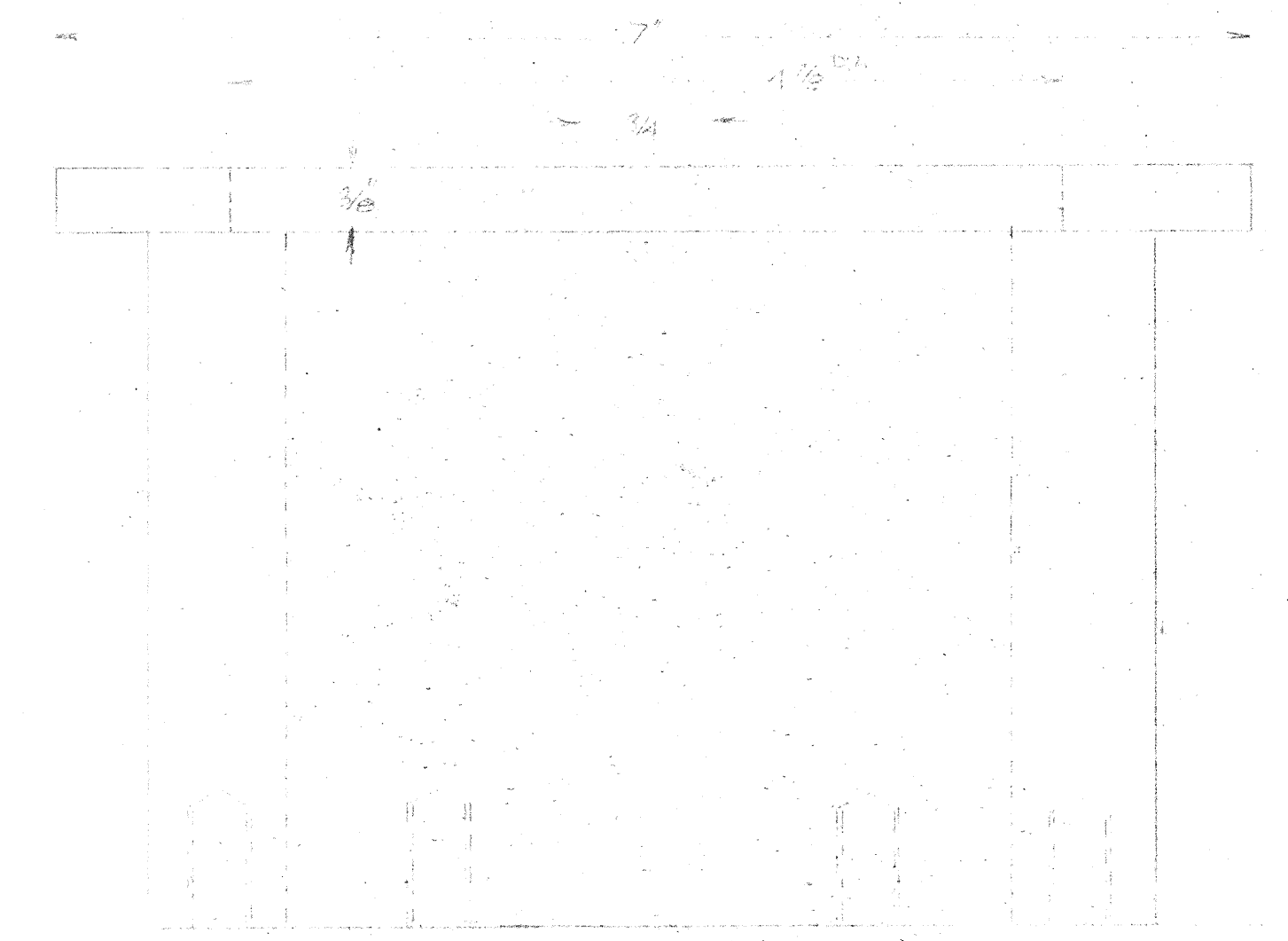


(13) BRAKE PAD  
 STEEL ONE REQ'D

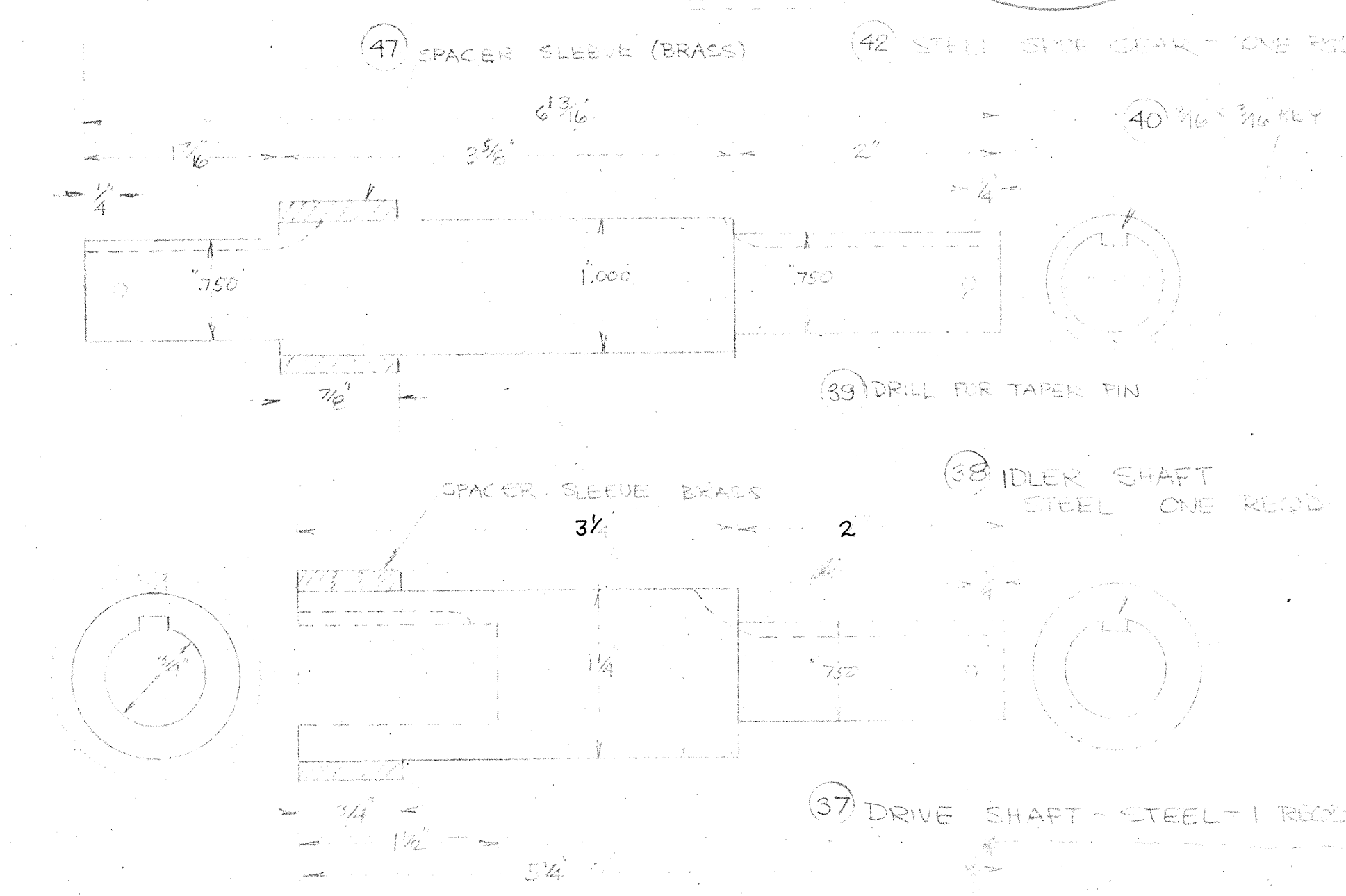
(DRAWING IS INVERTED)



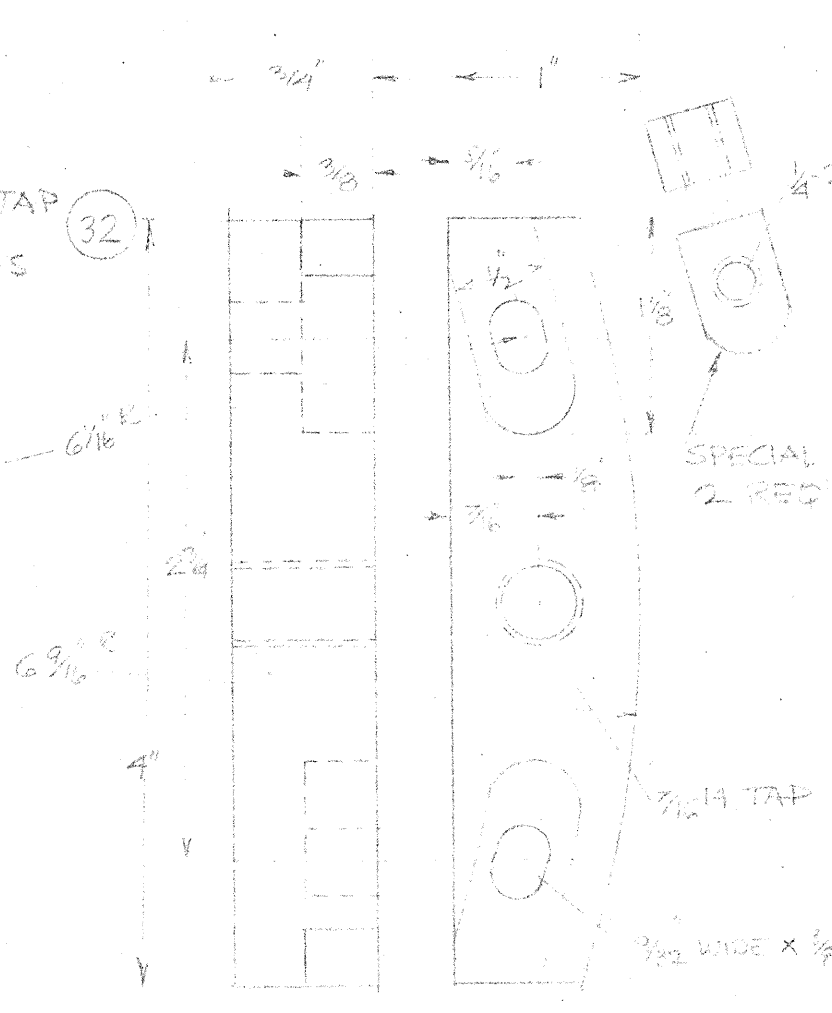
(32) GEAR-BEARING RETAINER  
 STEEL ONE REQ'D



(31) BEARING ADAPTOR  
 MATH STEEL ONE REQ'D



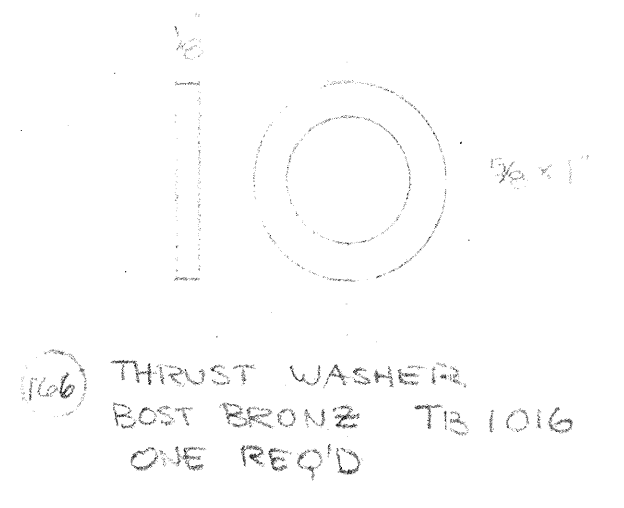
TO FIT SHP # 6030 (150mm)



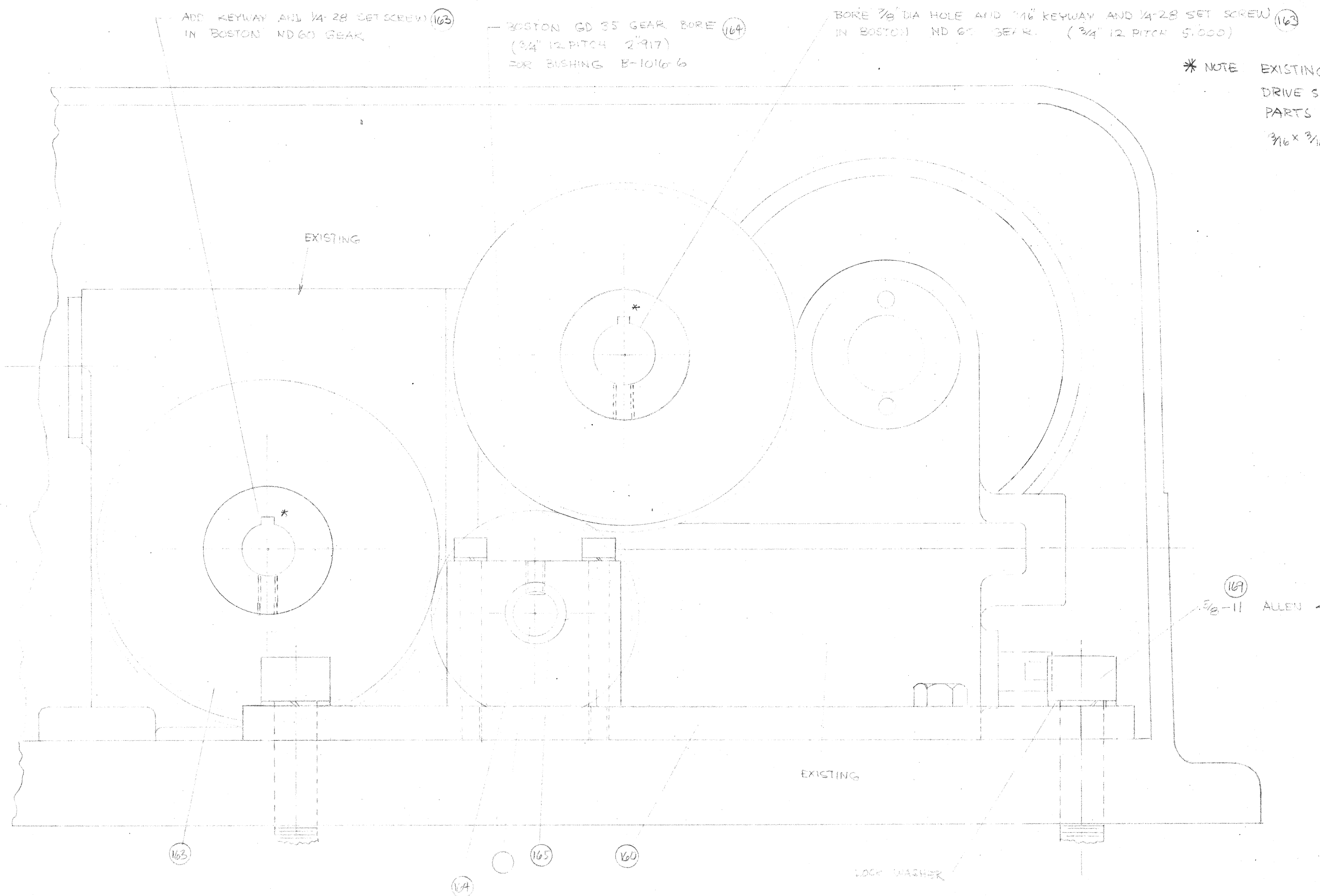
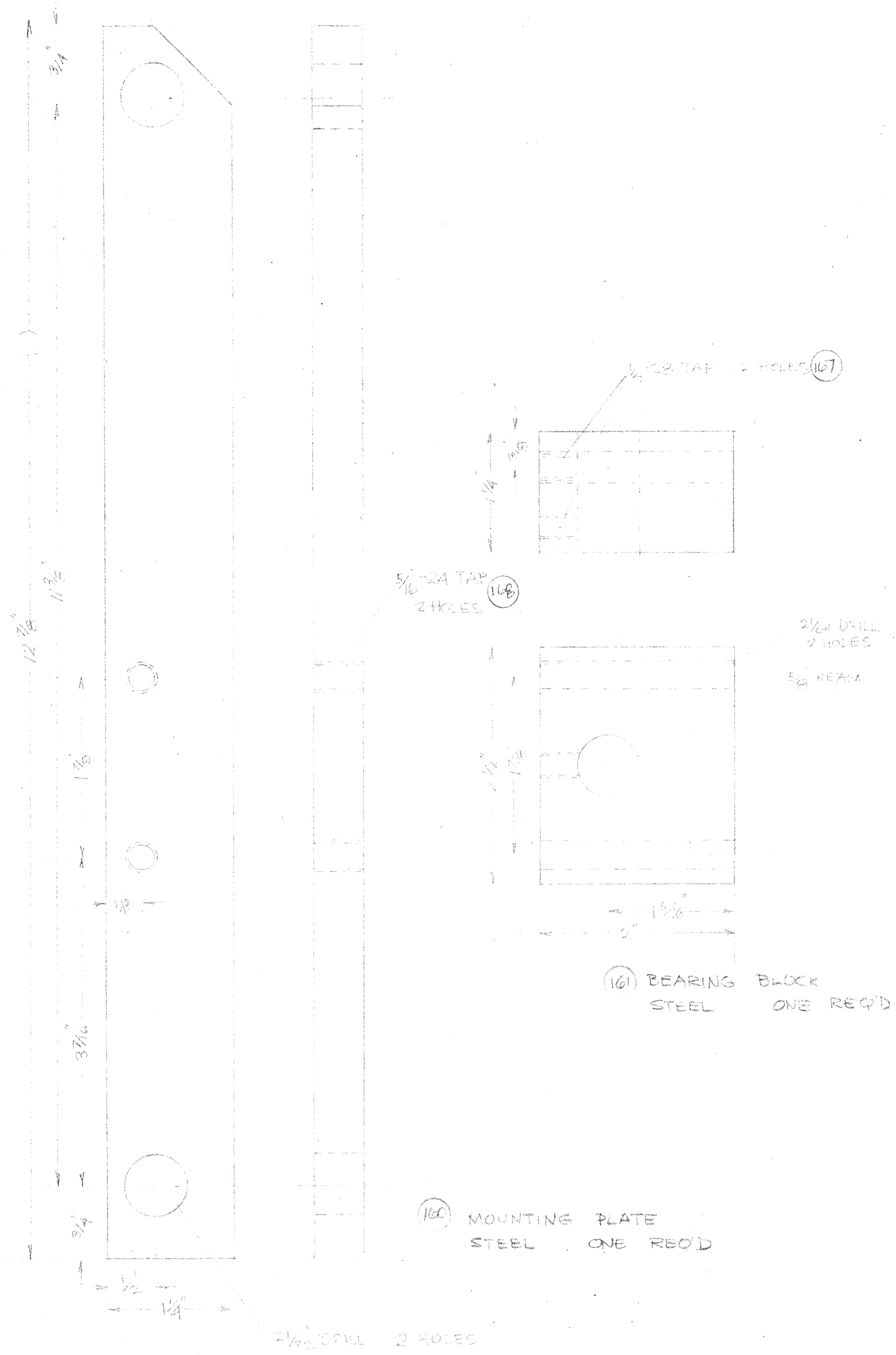
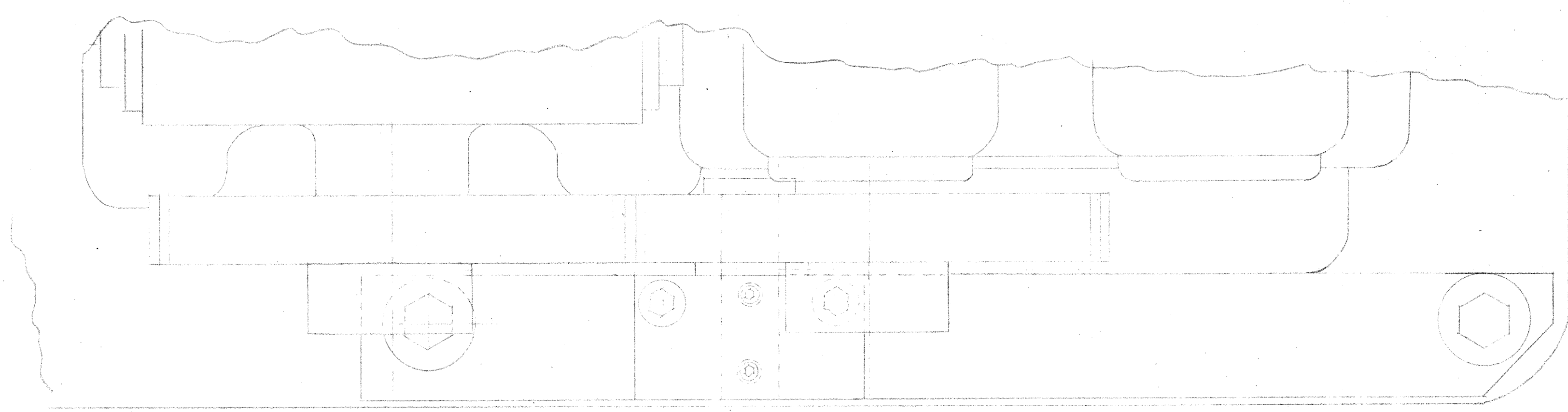
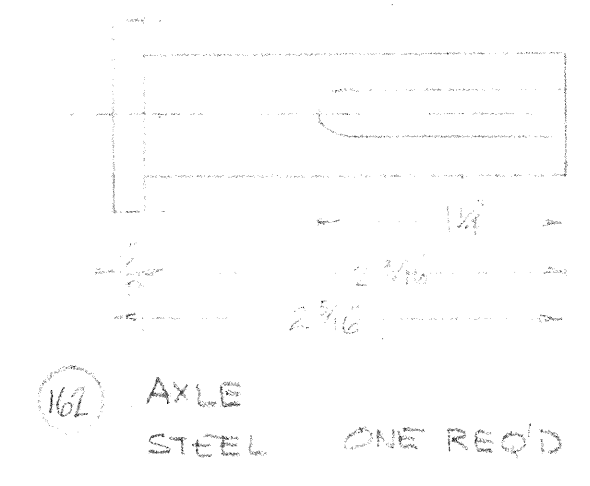
PARTS LIST			
UNIT	DESCRIPTION	MATL	NO.
31	BEARING ADAPTOR	STEEL	1
32	3/8 SAE ALLEN HD 1 1/4 QA LONG	STEEL	12
33	GEAR-BEARING RETAINER (3A B)	STEEL	1
34	1/4-28 ALLEN HD 3/4 QA LONG	STEEL	8
35	5" PD 12 PITCH BOSTON ND CO	"	1
36	1" PD " " ND 48	"	1
37	DRIVE SHAFT	STEEL	1
38	IDLER SHAFT	STEEL	1
39	TAPER PIN	"	6
40	KEY 3/16 x 3/16 x 3/4	"	3
41	GEAR RETAINERS	"	8
42	SPUR GEAR 2 1/2 PD (DATA TO BE SUPPLIED)	"	1
43	BRAKE PAD	STEEL	1
44	BRAKE LINING	ABRASIVE	1
45	10-24 FH SCREWS	STEEL	4
46	1/8 SAE ALLEN HD 2" C.A. LONG	"	2

STEWART OBSERVATORY

SCALE: FULL  
 DATE: 23 OCT 62  
 APPROVED BY: \_\_\_\_\_  
 DRAWN BY: H.S.  
 REVISED: \_\_\_\_\_  
**36-INCH DECLINATION DRIVE**  
 UNIVERSITY OF ARIZONA  
 DRAWING NUMBER: 36-00-10



6"



\* NOTE EXISTING KEYWAY IN DRIVE SHAFTS OF EXISTING PARTS ARE 3/16 x 3/32 FOR 3/16 x 3/16 KEYS.

STEWART OBSERVATORY  
UNIVERSITY OF ARIZONA  
TUCSON, ARIZONA  
NEG. # 36-D104a  
PHOTO BY \_\_\_\_\_

PARTS LIST			
UNIT	DESCRIPTION	MATL	NO
1160	MOUNTING PLATE	STL	1
1161	BEARING BLOCK	STL	1
1162	AXLE	STL	1
1163	BOSTON GEAR ND 60 (3/4")	STL	2
1164	BOSTON GEAR GD 35 (3/4")	STL	1
1165	BRONZ BUSHING B-1016-G	BRNZ	1
1166	THRUST WASHER TB 1016 BOSTON	BRNZ	1
1167	1/4-28 LOCK SCREWS (SOCK)	STL	4
1168	5/16-24 SOCKET HD 2 1/2" OAL	STL	2
1169	3/8-11 SOCKET HD 4" OAL	STL	2

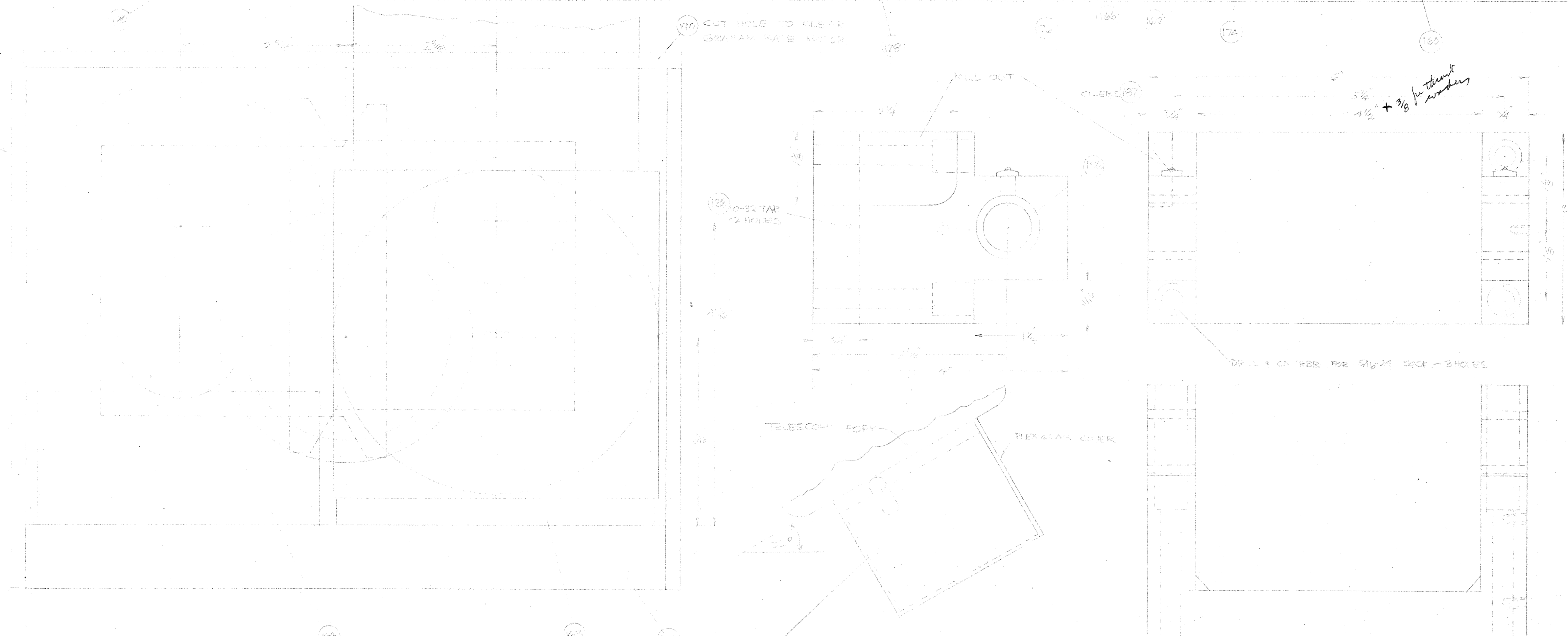
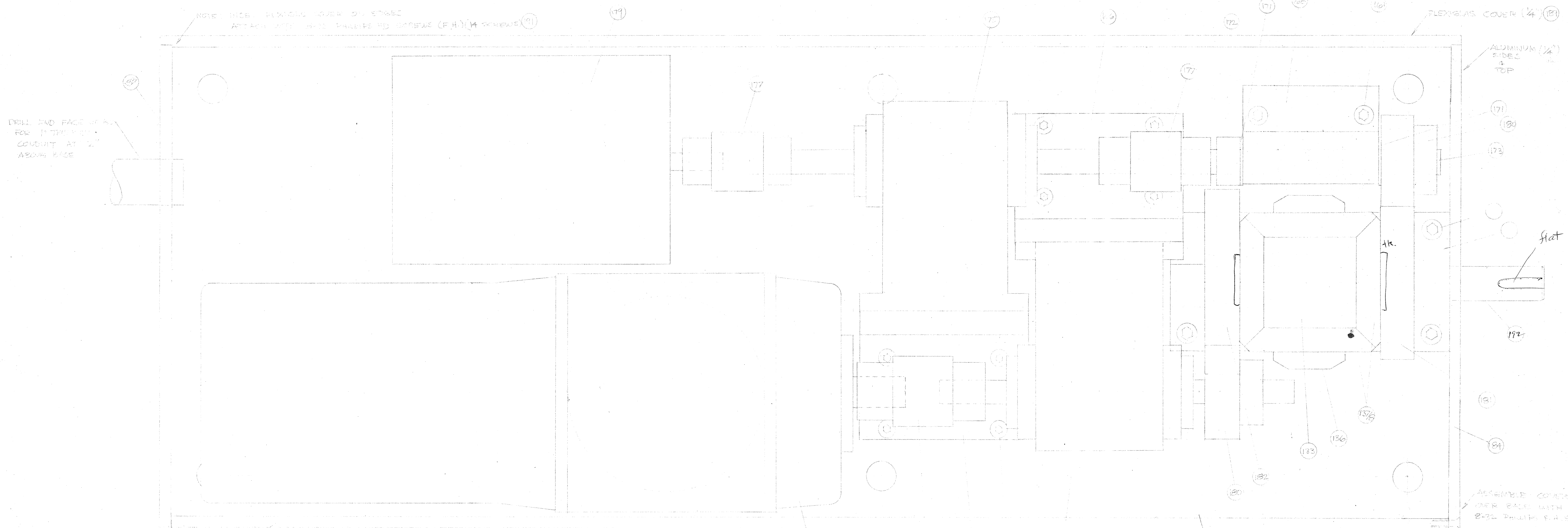
STEWART OBSERVATORY

SCALE: FULL APPROVED BY: \_\_\_\_\_ DRAWN BY: AEM

DATE: 3 NOV 62 REVISED: \_\_\_\_\_

DEC 11 1962 DRIVE GEAR MODIFICATION

UNIVERSITY OF ARIZONA DRAWING NUMBER: 36-50-15



### PARTS LIST

UNIT	DESCRIPTION	MATL	QTY
133	DIFFERENTIAL BLOCK	STL	1
136	OLEO SHEET	STL	1
137	INTER GEAR BOST L10SV	STL	1
160	BASE PLATE	ALUM	1
161	5/16" 24 GEAR	STL	1
162	1/2" 28 GEAR	STL	1
166	REDUCTOR BRACKETS	ALUM	2
168	GEAR BRACKET	ALUM	2
171	WASHER	STL	2
172	COLLAR	ALUM	2
173	CLAMP	ALUM	2
* 174	REDUCTOR BOST LW13-100 RATIO	—	—
* 175	" " LW13-20 RATIO	—	—
* 176	COUPLER BOST FOR 15 (1/2")	—	—
* 177	" " FOR 12 (1/2")	—	—
* 178	1/2 HP 1100 RPM GRAHAM DRIVE	—	—
* 179	BODINE 1/2 HP B 7170 E	—	—
180	SPUR GEAR QD4 24 *	STL	2
181	SPUR GEAR SD 40	STL	1
182	SPUR GEAR SD 48	STL	1
183	END PLATE (EAST)	ALUM	1
184	END PLATE (WEST)	ALUM	1
185	DIFFERENTIAL BRACKET	STL	1
186	BUSHING BOST B-1216 G	BRONZ	2
187	OLEO INLETS	—	2
188	SIDE PLATE (SOUTH)	ALUM	1
189	SIDE PLATE (NORTH)	PLEXIGLAS	1
190	TOP COVER	ALUM	1
191	8-32 F.H. PHILLIP SCREWS	STL	36
192	3/4" SHAFT (with flats for set screws)	—	—
(193)	USE DETAIL ON 36-50-18 and 20	—	—
* USE A SUPPLIED PARTS			

STEWART OBSERVATORY

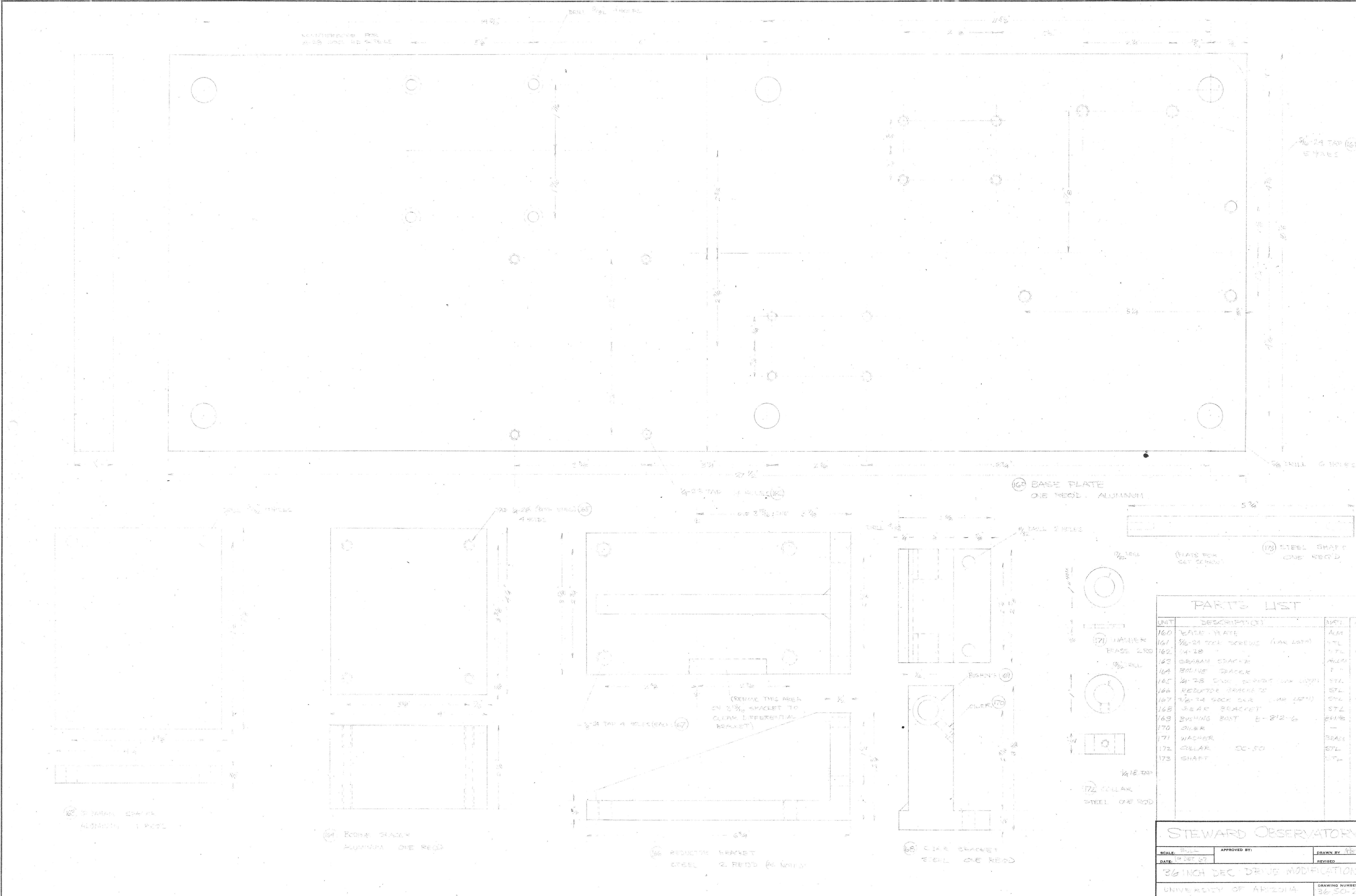
SCALE: FULL APPROVED BY: DRAWN BY: AFB

DATE: 10/28/62 REVISED

36 INCH DEC DRIVE MODIFICATIONS

DRAWING NUMBER UNIVERSITY OF ARIZONA 36-50-22





# KITT PEAK MOUNTAIN OBSERVATORY STEWART OBSERVATORY UNIVERSITY OF ARIZONA

36"

CONSTRUCTION HAS BEEN TO BE SET ON APPROXIMATE ELEVATION 7000. ACCESS ROAD SHOWN IN PLAN AND SITE PLAN HAS BEEN LAYOUT BEARING TO APPROX. TRUE AND ELEVATIONS SHOWN AND IS SUITABLE FOR CONSTRUCTION PURPOSES. CORNERS CENTER POINTS OF LOT AND DIMENSIONS HAVE BEEN ESTABLISHED AND ARE STAKED. NORTH LINE TO BE ESTABLISHED BY STEWARD OBSERVATORY. NATURAL VEGETATION & SOIL FORMATIONS ARE TO BE PRESERVED AS MUCH AS PRACTICAL IN THEIR NATURAL STATE.



**SITE PLAN**  
SCALE 1" = 10'-0"

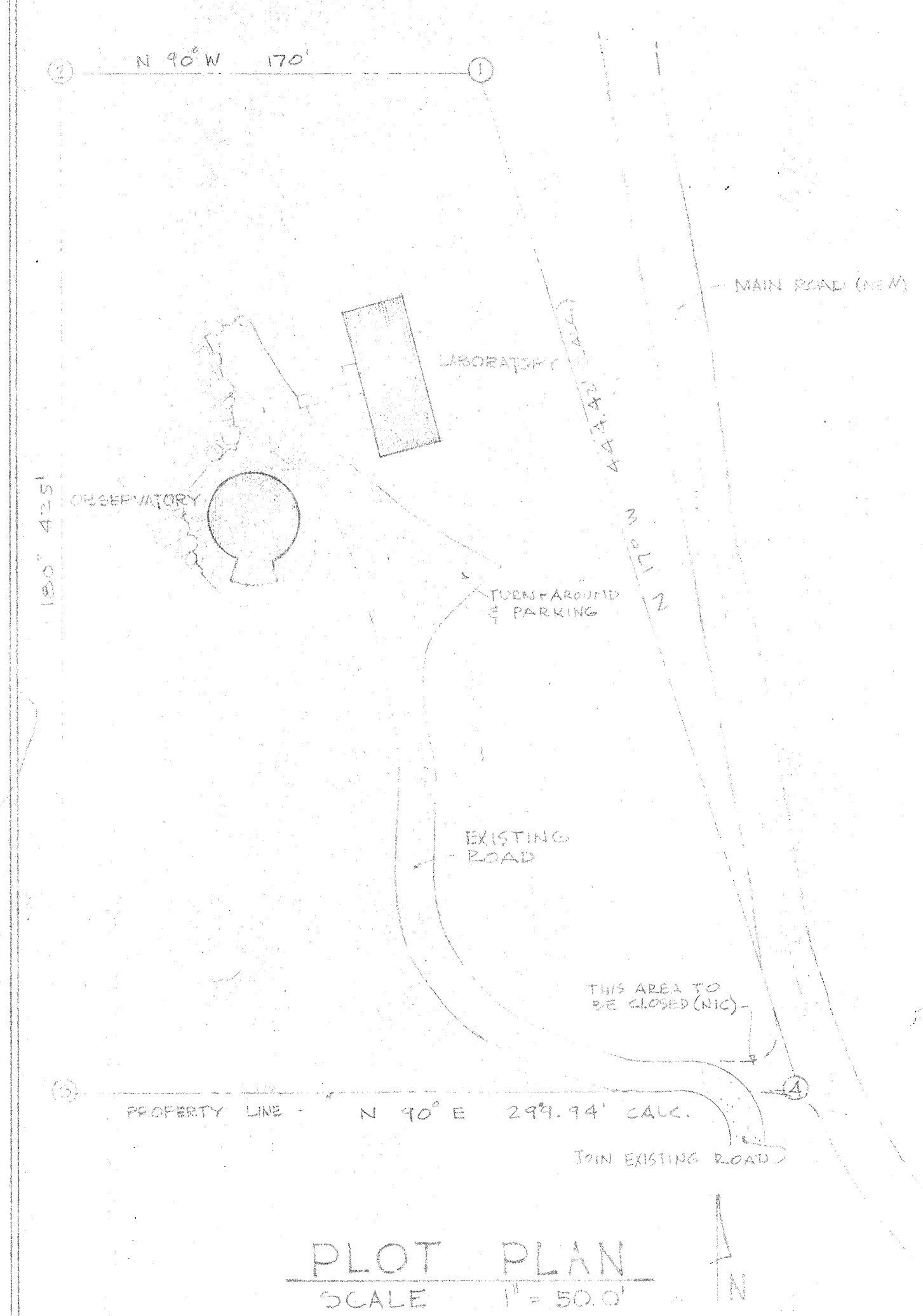
(6770) FINAL GRADES (NEW & UNCHANGED EXISTING GRADES)

SITE PLAN BASED ON UNIVERSITY OF ARIZONA SURVEY DRAWING TITLED "CONTOUR MAP, OBSERVATORY SITE, KITT PEAK" NO. V-A-71(B) DATED JULY, 1959.  
NOTE: NORTH LINE TO BE ESTABLISHED BY STEWARD OBSERVATORY.

## APPROVALS

## INDEX

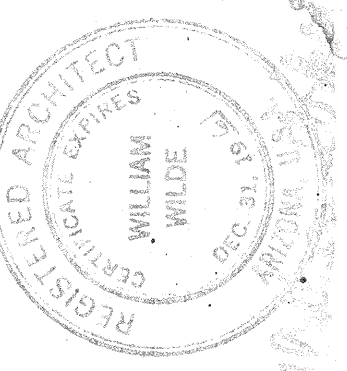
- GENERAL
- ✓ G1 PLOT PLAN SITE PLAN
- ✓ G2 UTILITIES PLAN
- G3 DOOR & WINDOW BOULES
- G4 SPECIFICATIONS
- G5 SPECIFICATIONS
- G6 SPECIFICATIONS
- G7 SPECIFICATIONS
- G8 SPECIFICATIONS
- G9 SPECIFICATIONS
- LABORATORY
- B1 FOUNDATION & STRUCTURAL PLAN DETAILS
- B2 FLOOR PLAN EXTERIOR ELEVATIONS
- B3 ELEVATIONS & SECTIONS
- B4 DETAILS 1/4" = 1'-0"
- B5 INTERIOR ELEVATIONS & DETAILS
- B6 ELECTRICAL PLAN & DETAILS
- B7 FORCED AIR HEATING PLAN & DETAILS
- B8 PLUMBING PLAN
- ✓ V1 FOUNDATION & FOOTING PLAN, 2ND & 3RD STRUCTURAL PLAN WIND SCREEN DETAIL
- ✓ V2 FLOOR PLANS
- ✓ V3 SECTION A-A, SECTION B-B
- V4 ELEVATIONS & DETAILS
- V5 STRUCTURAL SECTIONS & DETAILS
- V6 INSTRUMENT RIB, ELEVATIONS & SECTIONS
- V7 INTERIOR ELEVATIONS & DETAILS, STAIRWAY & RAILINGS
- ✓ V8 ELECTRICAL PLAN
- V9 ELECTRICAL DETAILS
- V10 PLUMBING, VENTILATION, & HEATING PLANS
- ✓ D1 DOME FRAM PLAN, DOME PLAN & DESIGN LOADS
- ✓ D2 DOME SECTIONS & LIST OF ABBREVIATIONS
- ✓ D3 RING GIRDER PLAN, SECTIONS & DETAILS
- ✓ D4 MAIN ARCH. RIB SECTIONS & CRANE DIAGRAM
- ✓ D5 EXTERIOR & INTERIOR RIB SECTIONS & DETAILS
- ✓ D6 MEZANINE & STAIR PLANS, SECTIONS & DETAILS
- ✓ D7 MAIN SHUTTER PLAN, SECTIONS & DETAILS
- ✓ D8 OBSERVER'S PLATFORM
- ✓ D9 LOWER SHUTTER
- ✓ D10 DOME TRUCK ASSEMBLY
- ✓ D11 DOME TRUCK ASSEMBLY LIST & DETAILS
- ✓ D12 DOME TRUCK DETAILS
- ✓ D13 DOME DRIVE ASSEMBLY
- ✓ D14 DOME DRIVE DETAILS
- ✓ D15 PLATFORM HOIST ASSEMBLY
- ✓ D16 PLATFORM HOIST DETAILS I
- ✓ D17 PLATFORM HOIST DETAILS II
- ✓ D18 PLATFORM HOIST DETAILS III
- ✓ D19 WIND SCREEN ASSEMBLY & DETAILS
- ✓ D20 SHUTTER DRIVE ASSEMBLY
- ✓ D21 SHUTTER DRIVE DETAILS I
- ✓ D22 SHUTTER DRIVE DETAILS II
- ✓ D23 SHUTTER DRIVE DETAILS III
- ✓ D24 SHUTTER DRIVE DETAILS IV
- ✓ D25 PLATFORM TRUCK ASSEMBLY



**PLOT PLAN**  
SCALE 1" = 50'-0"

DATA FROM "TRAVERSE CONTROL FOR V-A-A OBSER. SITE - KITT PEAK" # V-A-71(A) DATED SEPT. 1951

NOTE: SEE CONSTRUCTION SIGN DETAILS ON SHEET B4. LOCATE SIGN AT S-W CORNER OF AJO WAY AND ENTRANCE ROAD TO KITT PEAK. OBTAIN PERMISSION FROM V-A-A BEFORE PLACING SIGN.



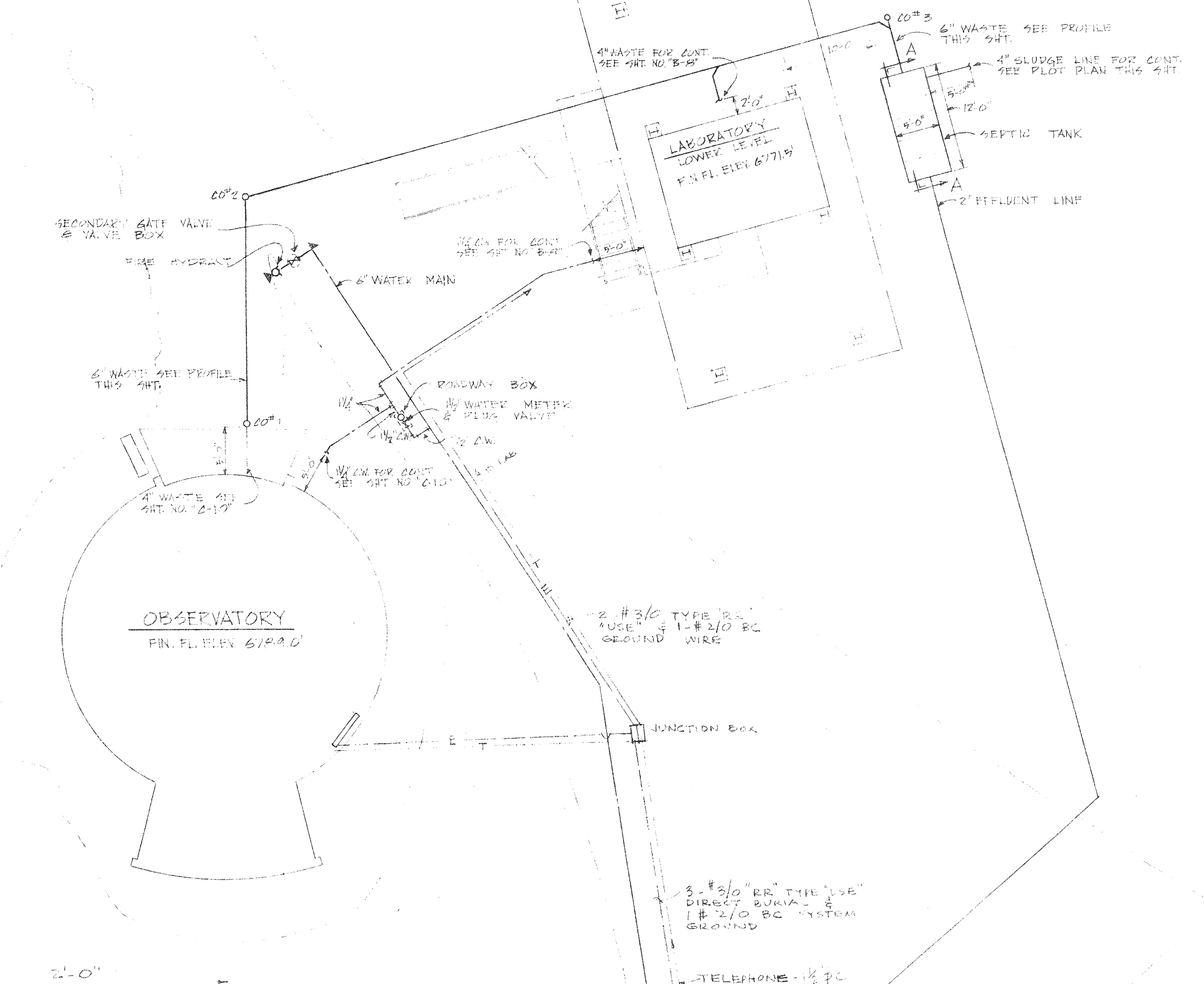
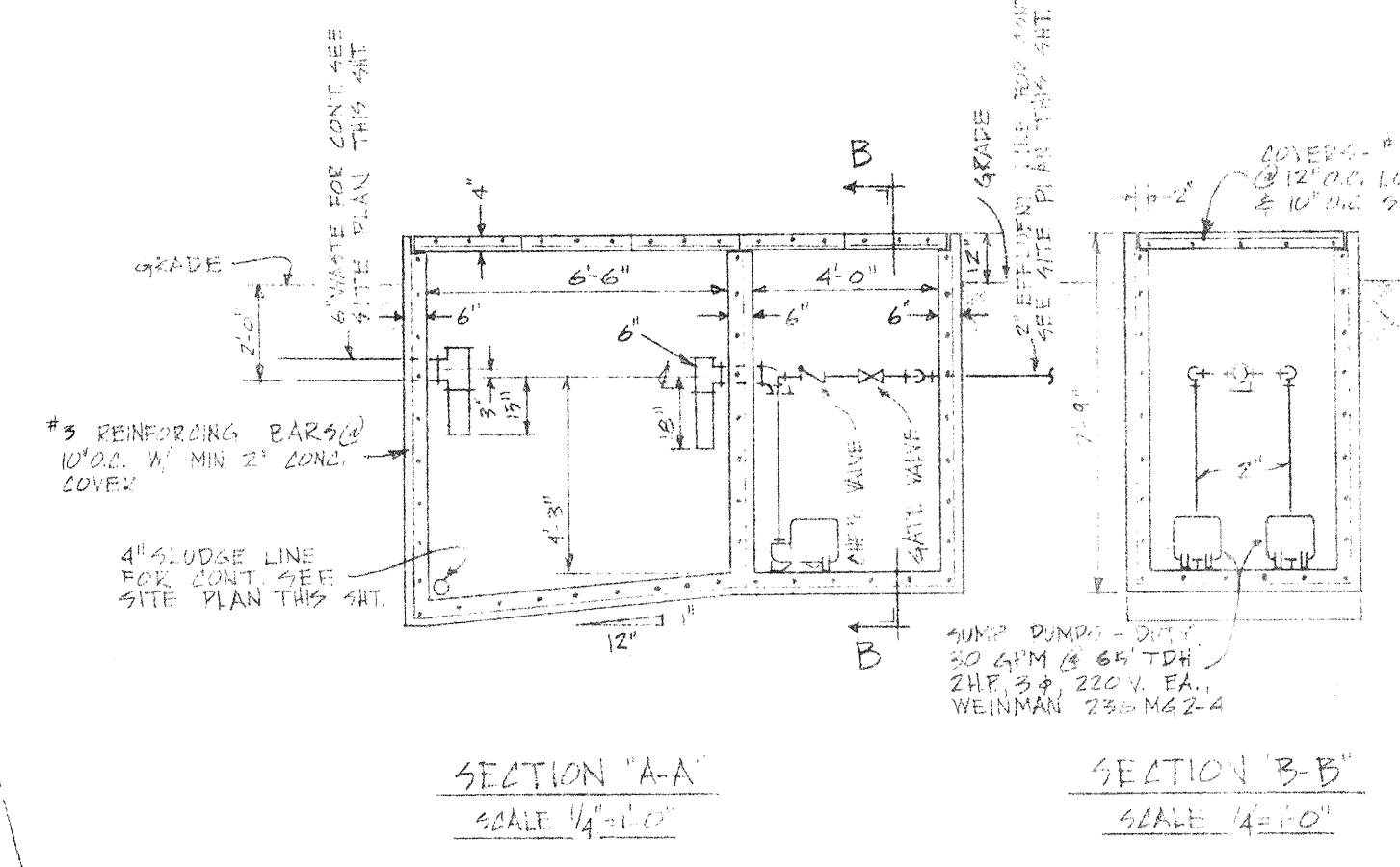
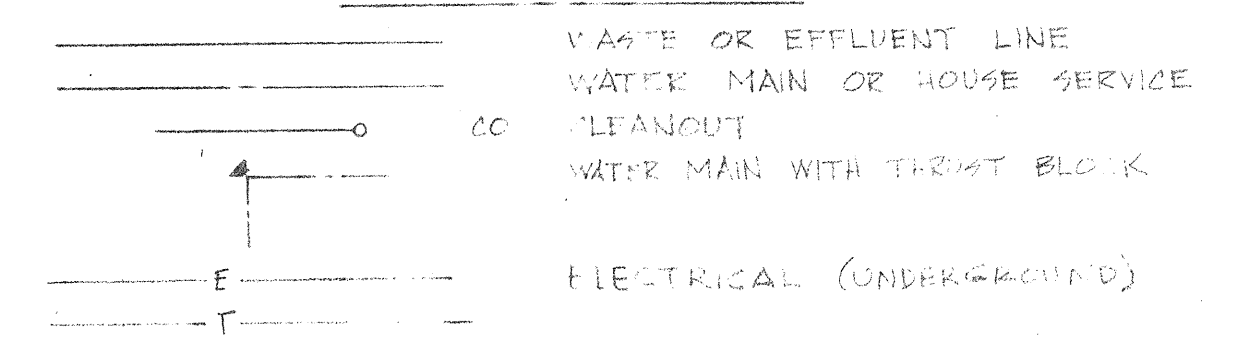
**WILLIAM WILDE ARCHITECT AIA**  
ARCHITECTURE - INDUSTRIAL DESIGN - SPACE PLANNING  
181 SOUTH TUCSON BOULEVARD, TUCSON, ARIZONA, U.S.A. 85715

**STEWART OBSERVATORY  
UNIVERSITY OF ARIZONA  
KITT PEAK FIELD STATION**

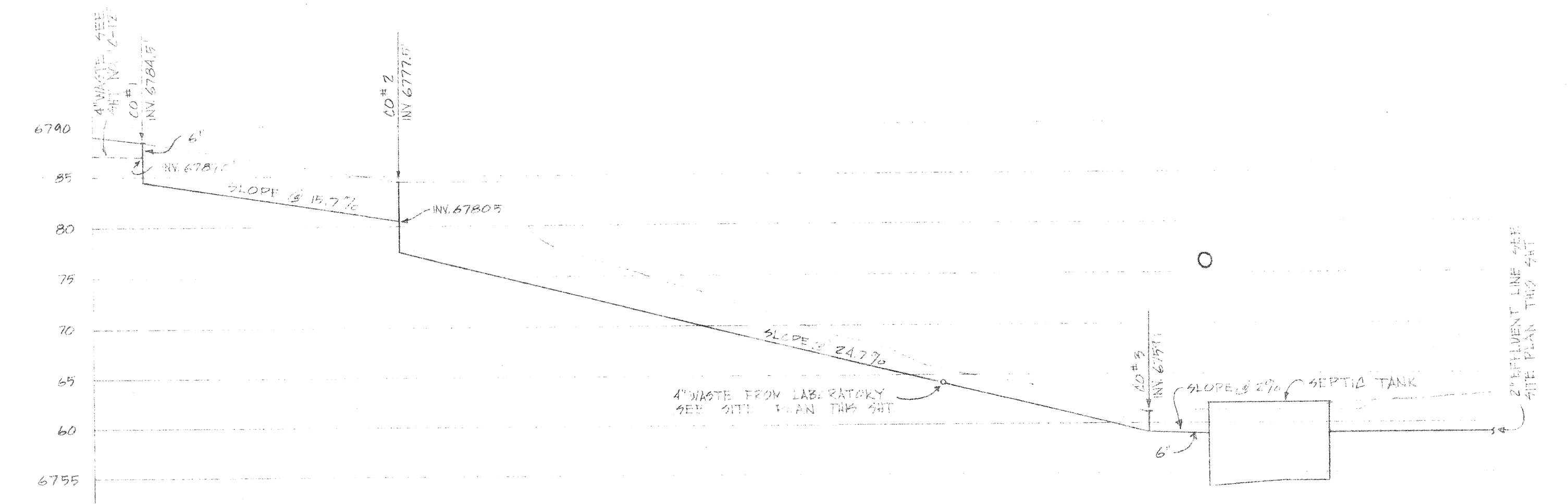
**INDEX  
PLOT PLAN  
SITE PLAN**

DRAWING ISSUE DATE  
ARCHITECT W.W.

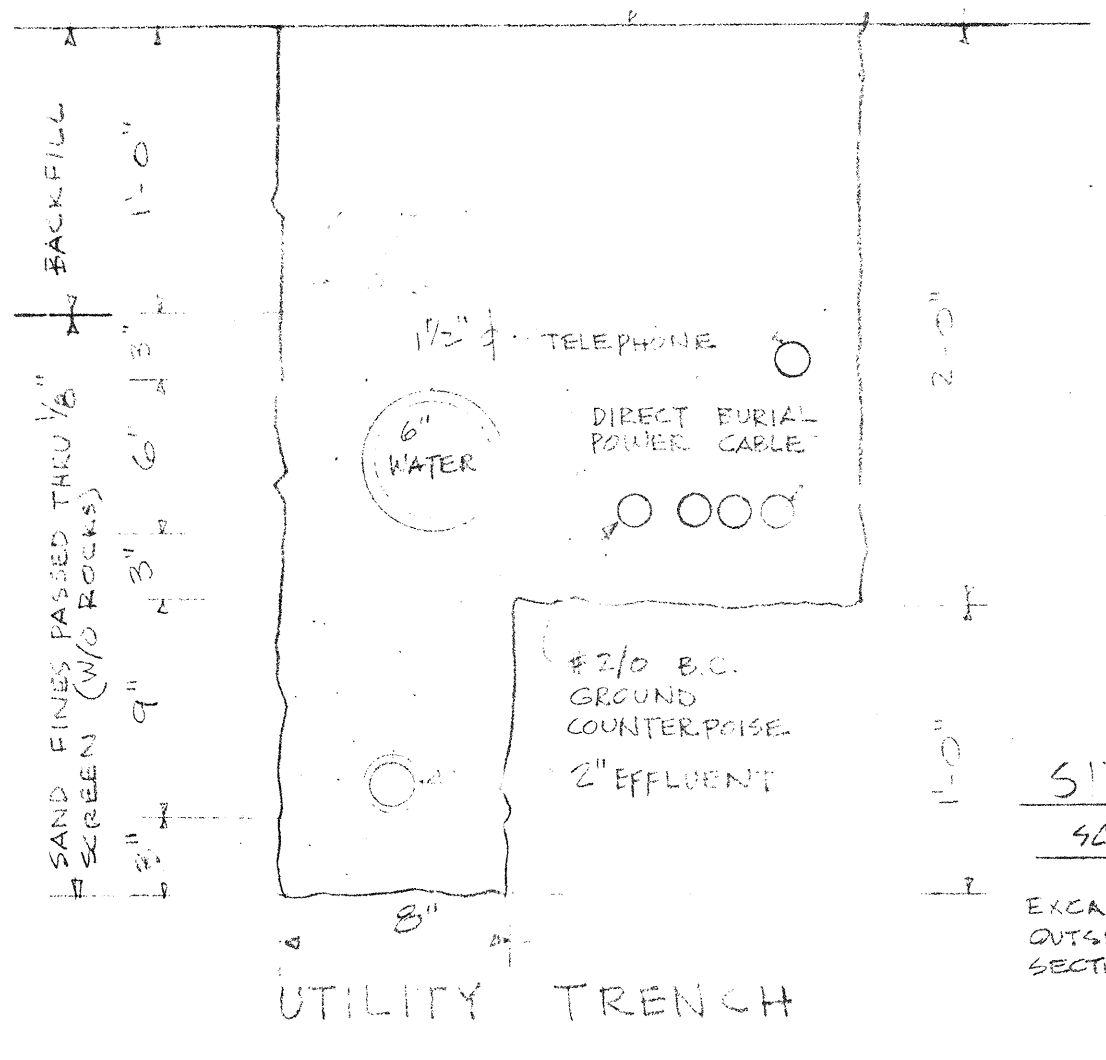
SYMBOL LIST



PLOT PLAN SCALE 1"=100'



PROFILE OF 6" WASTE HORIZONTAL SCALE 1"=10' VERTICAL SCALE 1"=10'-0"



SITE PLAN SCALE 1"=10'-0"

EXCAVATION & BACKFILL FOR UTILITY LINES OUTSIDE BUILDINGS TO BE DONE UNDER SECTION 2, EARHWORX, OF THE SPECIFICATIONS

Professional seal and contact information for WILLIAM WILDE ARCHITECT, including address (151 SOUTH TUCSON BOULEVARD), phone number (520-733-0111), and registration details for ARCHITECT #12987, REGISTERED PROFESSIONAL ENGINEER #10102, and REGISTERED ARCHITECT #12987.

STEWART OBSERVATORY UNIVERSITY OF ARIZONA KITT PEAK UTILITY PLAN

Metadata table with columns for DRAWING, ISSUE DATE, COMMISSION, and a large A2 identifier.