

QUONSET HUTS

A. General Features

1. Quonset Huts (formerly called Nissen Huts) are designed to provide housing, work and storage units of a more lasting nature than tents, but less durable and less costly than permanent construction. The huts possess several advantages over most other types of structures. They can be manufactured by mass production methods; they are easily erected by unskilled labor; they are light-weight and can be shipped and erected with a minimum of handling equipment; they are flexible and may be used for various purposes under arctic or tropical conditions; and finally they can be taken apart and re-used elsewhere, if the occasion demands.

Such huts are not new--similar units were used during World War I. The Quonset Hut is an adaptation of the Nissen hut used by the English during the present conflict.

Two hut types are used. The older model utilizes bent T sections for the ribs. The newer type has ribs made of welded special steel sections, and is called the "redesigned" hut. The two huts differ in method of fabrication but are similar in appearance and erection. The T-rib type will be discussed first.

Figure 1 is a photograph of the exterior of a completed Quonset T-Rib Hut, and Fig. 2 is an interior view. Fig. 3 is an isometric sketch of the hut showing the arrangement of the component parts.

B. Uses

2. General. The Quonset Hut is suitable for housing personnel in cold or tropical climates. The tropical hut has screened bulkheads substituted for the closed ends of the standard hut, and an overhanging roof and water collecting trough are added. With some additions and slight variations, the standard huts serve as galley, dispensary, surgical, dental, ward, morgue, shower and latrine, laundry, cold storage, barber shop, service store, and other units.

Table I lists the various huts with their identification marks.

A 16' x 36' standard hut provides quarters for 10 enlisted men or 5 to 7 officers. The approximate total of all types of huts for a complete encampment is found by dividing the number of men to be accommodated by four.

3. Protection Against Bombing. Protection from bomb blast and splinters may be provided by banking earth over part of the shelter as shown in Fig. 4. The covering should be carried to a height of approximately 3' 6" above the floor level.

and sloped back at about a 15° (1 to 4 slope) angle to ground level. Men in bunks are thereby protected against the effect of bursts at a distance but not against direct hits or near misses. A similar covering is desirable at the rear bulkhead. The entrance may be protected by a wall, embankment, or by having the entrance somewhat below ground level.



Fig. 4

Normal Ground Level

Fig. 4

4. Camouflage. Hut camouflage consists of stretching nets from peak to ground level at the ends and painting patterns on the metal covering. The patterns extend onto the sloped embankment and normal ground level. A more complete description of the method of camouflaging the huts is given in the bulletin on camouflage for advance bases.

5. Gasproofing. Quonset Huts are not expected to be used as air raid shelters, hence protection against gas is not provided.

6. Temperature and Ventilation. Tests show that temperatures inside a Quonset Hut with louvres and ventilators open have a lesser range than those outside. Favorable differences of 4° to 10°F were noted from the outside extremes which varied from 50° to 100°F during the test period.

An oil burning heater to be placed at the center of the hut is provided for most units. The smoke stack of the standard hut is replaced by a third ventilator on the tropical hut.

In cold climates, it may be found desirable to prevent heat loss and dampness caused by lack of a perfect fit of the floor panels. A suggested method is to place a layer of building or tarred paper over the floor panels and cover with any standard flooring material. This may be done during or after construction of the hut.

Ventilation is provided by screened door, windows and louvre at each end, and two ventilator shaft openings.

7. Condensation. The air gap and insulation between outer metal and inner masonite layer plus the window and other openings prevent condensation.

8. Lighting. Lighting is provided by 10-60 watt lamps with two $7\frac{1}{2}$ watt night lamps. In the standard hut the outlets are at the arch crown. Additional outlets along the sides may be installed in special purpose huts. Equal spacing of the six outlets brings one under each ventilator. Heat from the bulb assists somewhat the circulation of air up through the ventilators.

9. Modifications. For the dispensary, surgical and other huts, special features such as partitions, dormers, plumbing, etc. must be supplied. These are added to the standard hut with few changes. For example, partitions are tied to the Tee rib splicing section using the holes provided for shelf support straps. Dormers require additional connections and flashing, and the omission of a unit of the ordinary corrugated metal covering.

C. Delivery; Handling; Weights

10. Condition on Delivery. Crating or banding of the materials is performed at the mill for delivery to the supply depot. No additional preparation for ocean shipment is required. Ordinary handling precautions only are necessary.

11. Weights. Total shipping weight of a standard hut is about 12,560 pounds. Total cubic feet occupied are approximately 567. Weight of hut itself (all items) is 11,450 pounds. The heaviest single unit shipped weighs approximately 1,650 pounds. Weights of special huts are somewhat greater.

Items for one hut are arranged in thirteen shipping units. Table 2 lists the net weight, shipping weight and volume of the crates for a standard hut.

D. Erection in Field

12. Preparation of Ground and Site. The huts should be grouped in units according to the master plan for advance bases. Increasing distances between units or slightly rearranging the theoretical layout plan to suit the site is permissible. The essential feature of scattering units to prevent more than one possible hit in a single pass of a plane should, however, be adhered to.

Preparation of the site consists of leveling an area 20 feet by 40 feet. No special foundation work is necessary since only light loads are carried. Blocking or tamping of earth at intervals to level and square the sills may be required. Difficulty in connecting the parts results if the sills are not square and level.

A hut placed at or above ground level and surrounded by an embankment is less likely to be flooded than one set

partly below the normal ground level. In some cases it might be advisable to excavate for some huts and fill for others in order to balance cut and fill. Some type of flashing at the intersection of fill and hut side will improve drainage.

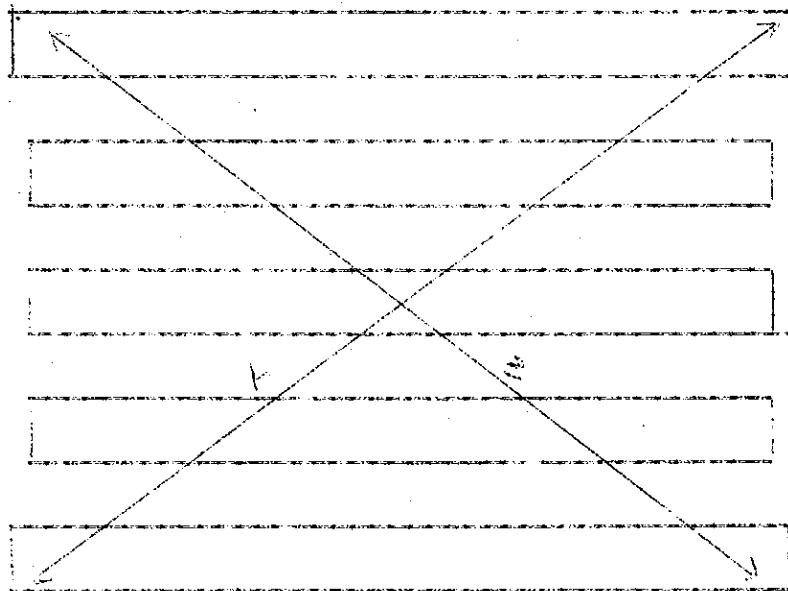
In tropical regions it may be desirable to omit the embankment and support the huts on blocks thereby permitting circulation of air beneath the hut, preventing flooding, and reducing termite damage. French drains may be necessary if embankments are used.

13. Crew Required. The crew necessary to erect a standard hut is composed of one foreman and eight or ten men, one of whom is an electrician. The normal erection time is about $8\frac{1}{2}$ hours for an eight man crew that has had some experience.

14. Order of Erection. The sequence of the twenty-one operations involved in the complete erection of a hut is given below, together with the men (numbered one to eight for reference) and the time normally required for each operation. Numbers of the various pieces corresponding with those shown on the isometric drawing of the hut (Fig. 3) are noted. Figure 6 shows the sequence with respect to each of the eight men. Table 2 lists the tools required.

- (1) Level and tamp area 20' x 40' at site of hut.
(Men 1 to 4 - 90 minutes)
- (2) Uncrate hut. (Men 5 to 8 - 60 minutes)
- (3) Bolt (5.3) outer sill assemblies (5) and (6) and place approximately 16' apart. Insert carriage bolts (26) from under side of sill. Stand sills on edge (26) for this operation and when finished turn to normal position. Nuts should be given a few turns on bolts to secure them until ribs are set up. Place 2 x 2 x $\frac{1}{4}$ Tee Rib Tie Straps (27) on carriage bolts in each sill to correctly space the sills. Vertical legs of angle straps are up and toward hut center, welded clip angles down. (Men 5 to 8 - 40 minutes)
- (4) Square hut by making equal the diagonal distances from the end bolt (26) of one outside sill to the opposite and bolt of the other outside sill. (See Fig. 5) Squaring is an essential prerequisite for the later steps.
(Men 5 to 8 - 15 minutes)
- (5) Lay inner sill plate assemblies (3) and (4) and bolt (3.2). They will automatically be spaced when laid between the clip angles welded to the bottom of the spacing strap angles (27).
(Men 5 to 8 - 30 minutes)

Fig. 5



Sills - Distance "A" must equal distance "B"

- (6) Level outer sills using bubble tube. Block if necessary. Move along one side then across front, down the other side, and across rear as a check. Select the high point, begin there, and block elsewhere. Level across inner sills.
(Men 1 to 4 - 15 minutes)
- (7) Set remaining Tee Rib Tie Straps ²⁷, the two with clip angles at the sill joints, the plain ones at other rib connections. All tie strap angles except the rear and one face the same direction. (Men 5 to 8 - 20 minutes)
- (8) Assemble curved ribs ¹⁷ and ¹⁸ on the ground by bolting together two end lower ¹⁷ and one center (upper) ¹⁸ Tee-rib sections. (Men 1 to 4 - 60 minutes)
- (9) Erect ribs, starting at one end and continuing to the other. The bent clip at the bottom of the end (lower) section ¹⁷ of the rib is to be placed on top of the tie strap angle ²⁷ where these members are fastened at the sill ⁵ or ⁶. Nail block to sill ⁵ at end to temporarily support rib. (Men 1 to 4 - 60 minutes)
- (10) Place floor panels ⁸ as soon as two ribs are up, thereby bracing the ribs and eliminating all shoring, and providing a working surface. Half of erecting force continue rib erection while other half follow placing floor panels. When one unit of a cross-panel is in place, set the abutting one by lowering the end at the hut center, then slide the opposite end down the

Tee-ribs. If the panel sticks, raise slightly the unit already in place, enlarge the notches, re-set and push over. Check squareness of building again after panels are in place by taping diagonals. The lengths should check to within $1/4"$. In moving sills longitudinally to balance diagonal lengths, correct for $1/2$ of error. The procedure given is based upon the use of floor panels with attached joists. Joists are now shipped loose. Flooring may be screwed to the joists before or after placing the joists, the latter being easier. (Men 5 to 8 - 60 minutes)

- (11) Locate position of the door panel 11 and holes for hook bolts 14.9 to hold end bulkheads 14 and 15. Determine hut center-line halfway between Tee-ribs at floor level, or use break in floor panels. Lay off successively $19\frac{5}{8}"$, $4"$, and $37\frac{1}{2}"$ on each side of hut center-line for hook bolts 14.9 to hold bulkheads. Bore $3/8"$ holes for these bolts. The $19\frac{5}{8}"$ distances represent the out to out of door jambs. (Men 1 and 2 - 15 minutes)
- (12) Place the two 2×4 center purlins (2) at the top of the structure and fasten to the ribs with hook bolts. Follow with top and 1 sections, then lower purlins (2) and 1 and finally intermediate row. The lower set of purlins serves as scaffolding for working on the intermediate set but some support such as packing box is necessary for placing the top row. Two men on each side can handle the purlin erection simultaneously, starting at the center. The L hook bolts 22 used should be placed in the Tee-rib first and then through the purlin.
(3 and 4 - 15 minutes)
(Men
(5 to 8 - 45 minutes)
- (13) Erect end bulkheads 11 - 15. Take off the top moulding strip and raise door panel 11. Set its base on previously marked out to out of jamb lines. Insert J hook bolts 11.17 in holes provided and attach panel to Tee-ribs. Level on side of bulkhead. Brace door panel temporarily by a board connected at mid-height and butting against a block on the floor. Set lower side panels 14, 15. Insert hook bolts 14.9 in panel first, then in floor. Next attach by $3/8"$ hook J bolts 11.17 to Tee-ribs.

NOTE: If bulkhead ⑪ - ⑯ is out of plumb and a level is not available, set one piece of masonite ⑯ in place between the Tee-ribs. When it touches the floor and Tees squarely, the bulkhead is plumb. Moulding strips should be taken off before lifting panels into place so that the bolts may be inserted. Set upper side panels ⑫ and ⑬ and attach to Tee-rib with J bolts ⑮. Rest the bottom edge first and push top against the end Tee-rib. One man must be astride the top purlins or on scaffolding for this operation. Use one or two nails to tie panels to door jamb. (Men 1 to 4 - 60 minutes)

- (14) Install lower (4'x 12') Masonite sheets ⑯. Place sheet between Tee-ribs and push up and over lower purlin but under second purlin. When the bottom of the sheet is above the lower purlin, pull it down under the lower purlin and tuck between cleat on floor and iron rib. Fasten with clips ⑯. (Men 5 to 8 - 30 minutes)
- (15) Place top (4'x 3') Masonite sheets ⑯ under the two top rows of purlins ① and ②. Attach metal joint strip ⑩ to the end of the 4' x 3' sheet and slide over the end of the 4 x 12 piece. Omit clips ⑯ near the top of one of the 4 x 12 sheets until the metal joint strips are in place. The three 4 x 3 Masonite sheets having holes for a ventilator ④ or smoke stack ⑤ are placed in the third, fifth and seventh panels from the ends. (Men 5 to 8 - 15 minutes)
- (16) Install remaining Masonite clips ⑯. Tighten all clips securely by driving wedging nails through clip in correct wedging position.
- (1 to 4 - 75 minutes)
{ Men
{ 5 - 60 minutes)
- (17) Lay insulation ⑦ between Tee-ribs and against the Masonite, beginning at the bottom. Lap prepared ends of insulation pads. Staple to sill ⑤ or ⑥ at bottom and to Masonite at middle and top of pad. Staple upper pad to purlin and Masonite. Six pads of insulation are needed between each pair of ribs. (Men 5 to 8 - 60 minutes)

- (18) Attach corrugated steel sheets (19), starting at the bottom on each side. Butt lowest sheet against the ground strip at the sill. Punch sheets to receive nails and secure with 2" double-headed nails (30) including lead washers. A reasonable spacing of the nails is indicated on the part side elevation, Figure 3. (If the sheets arrive with nail holes in them, they have been assembled for trial fitting at the factory. It is then evident that the sheets with a double row of nail holes near the center must necessarily go at the top of the structure. Side sheets will have bottom nail holes nearer the end of the sheet.) Place top sheets with sleeves for ventilators (34) and smoke stack over masonite sheets with corresponding holes. Screw in eye bolts anchor rings (25) at location shown on drawing; attach anchor guy lines to rings. Lap sheets in direction of prevailing wind. Peening over a special hammer of lapped portion of sheets produces a more satisfactory job if time is available. (Men 1 to 2 - 135 minutes)
- (Men 3 to 6 - 105 minutes)
- (19) Install ventilators (34) (and smoke stack (31) furnished with stove). The sleeve is pushed up through the hole from the inside. Slide the ventilator units over these sleeves on the outside and nail them to the purlins. (Men 3 to 6 - 30 minutes)
- (20) Attach electrical light fixtures to the Tee-rib at the high point of the roof using the special clips provided. Fasten side outlets to ribs about four feet above floor level. Attach entrance junction box to end bulkhead panel and plug in light fixtures to recepticle on panel. (Men 7 to 8 - 75 minutes)
- (21) Bolt shelf bracket straps (32) to Tee-ribs and set wood shelves (9). (Men 7 to 8 - 60 minutes)

STANDARD HUT SPECIFICATION

REVISED Sept. 22, 1941
WEIGHTS

CRATE NO.	NO OF PIECES	CRATE CONTENTS	ITEM NO.	CRATE SIZE	CUBIC FEET	NET	GROSS
1	2	Door Panels Complete	11	10'2" x 3'6 $\frac{1}{2}$ " x 1'2 $\frac{1}{2}$ "	43.5	508	762
2	4 2 3 18	4x8 Outside Sill Plate-ends 4x6 Inner Sill Plate-ends 2x4 Purlin-ends 3' 10 $\frac{1}{2}$ " Joint Cover Strips	5 4 1 2	11'5" x 1'6 $\frac{3}{4}$ " x 1'5"	24.9	910	938
3	2 4 3 9 6	4x8 Outside Sill Plate-centers 4x8 Inner Sill Plate-ends 4x6 Inner Sill Plate-centers 2x4 Purlin-ends 2x4 Purlin-centers	6 4 3 1 2	12'10" x 1'9" x 1'9"	39.3	1103	1135
4	10 2	Tee Rib Iron (6 Plain 4 Spacers) Electrical Conduits 13'	27	16'5 x 1'2 $\frac{1}{2}$ " x 0'7 $\frac{1}{2}$ "	12.3	580	643
5*	18 6 3	4x12 Masonite Lining (Plain) 4x3 Masonite Lining (Plain) 4x3 Masonite Lining (with holes)	16	12'6" x 4'4 $\frac{1}{2}$ " x 0'8 $\frac{1}{2}$ "	38.4	1154	1364
6A on 5	4 2	Curved Tee Rib Iron (Welded) 20 Curved Tee Rib Iron (Plain) 10 (5 bundles required)	17 18	10'10" x 0'8 $\frac{1}{2}$ " x 0'5" (one bundle)	16.0	1050	1080

CHART SHOWING SEQUENCE OF OPERATIONS FOR ERECTION OF ONE STANDARD HUT

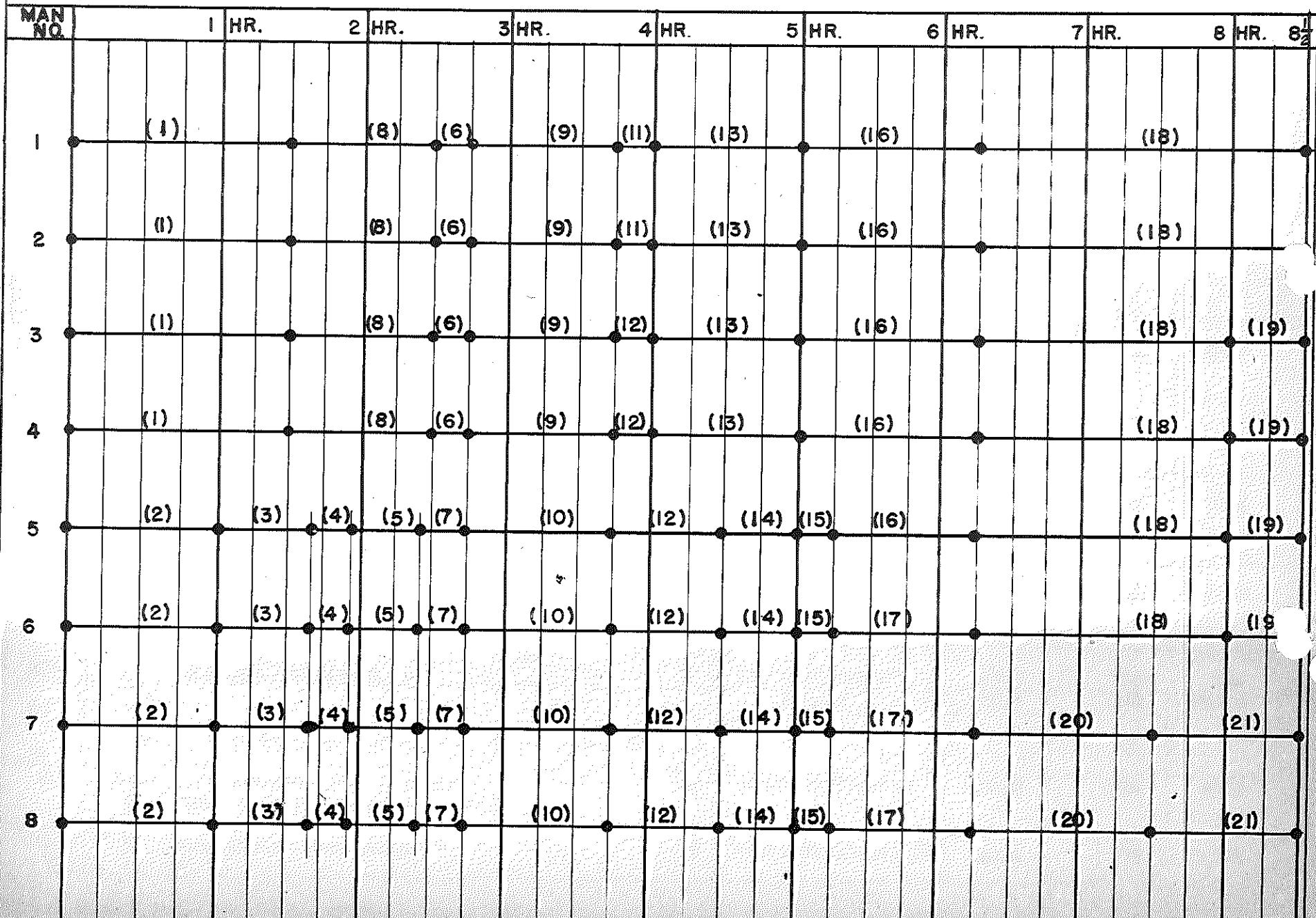


Figure 6

WEIGHTS							
CRATE NO.	NO. OF PIECES	CRATE CONTENTS	ITEM MARK	CRATE SIZE	CUBIC FEET	NET	GROSS
7A	54 3	Corrugated Sheets (Plain) Corrugated Sheets (with holes)	19	10'4 ¹ / ₂ "x2'5 ¹ / ₂ "x0'7"	15.1	1605	1643
7B	Box	Steel clips, hooks, bolts, nuts washers, nails, anchor hooks, 2 electric cords and fixtures, 16 shelf brackets, 1 switch box		2'7"x1'5"x1'4"	4.9	231	255
8A	2 2 2 1 8	Bulkhead Panels-(top left) Bulkhead Panels-(top right) Ventilators Smoke pipe vent Shelves	12 13 34 31 9	6'8 ¹ / ₂ "x5'10"x2'1 ¹ / ₂ "	83.2	824	1019
9	2 2	Bulkhead Panels-(bottom left) Bulkhead Panels-(bottom right)	14 15	7'2"x4'4"x1'8"	51.6	663	783
10A on 3	6	Floor Panels (3 required) (joists knocked down)	8	8'9"x4'2"x1'3"	140.4	2655	2718
12*	1	Cartons Insulation	7	5'8"x4'3 ¹ / ₂ "x4'0"	97.2	153	218
66		Substitutes(due to different sizes of material)		Totals	566.8	11436	12558
66							
5A	24 3	4x9 Masonite lining (Plain) 4x9 Masonite lining (with holes)	16	9'6 ¹ / ₂ "x4'4 ¹ / ₂ "x0'10"	34.7	1154	1299
12A cn 2	2	Insulation (new rolls)	7	5'8"x2'11 ¹ / ₂ "x2'11 ¹ / ₂ "	43.4	274	362

Table 2
TOOLS FOR ERECTION OF
STANDARD HUT

<u>Quantity</u>	<u>Description</u>	<u>Use</u>
4	Claw Hammer	Driving Sheeting nails and general use.
2	Screw Driver 10"	Floor Screws, panel board, replace lock on door.
1	Brace)
2	3/8" Bits	} Open or bore new holes in
2	1/2" Bits	} woodwork.
1	1-1/8" Bit	Bore hole for entrance of service cable in bulkhead panels.
1	Small Plane	For fitting doors and windows.
1	22" Cross Cut Saw	Cut wedges for sills and general use.
1	Hand Axe	Cut wedges for leveling sills.
1	1" Cold Chisel	Cut frozen nuts.
1	3/8" Socket Wrench for Hexagonal Nut)
1	3/8" Socket Wrench for Square Nut) Bolting purlins, sills, bulkheads, etc.
1	8" Adjustable End Wrench)
1	Open End Wrench for 1/4" Bolt)
1	8" Pair Pliers	Miscellaneous use.
1	Spirit Level	Level sills.
1	50' Tape	Squaring sill framing.
2	Bostitch Stapler T5) Fasten insulation to Masonite
3	Boxes Staples for Bostitch T5 Stapler) sheets. Approximately 2000 per hut.
1	Can Caulking Compound	Caulk holes in corrugated sheet metal (if Necessary).
1	18" Small Pinch Bar	Opening Crates.
6	1/4" Taps) Threading holes where necessary where self bracket
1	Tap Wrench) is attached to iron rib.
1	Hand Punch	Punching holes for nails in corrugated sheets.

B. SPECIAL HUTS

15. Table 3 lists the 16' x 36' tropical standard and special huts and the northern standard and special huts.

TABLE 3

NORTHERN STANDARD & SPECIAL HUTS		TROPICAL STANDARD & SPECIAL HUTS	
*1 AS 1	Standard Redesign	1 AZ 1	Standard Redesign
1 AS 2	Officers Quarters	1 AZ 2	Officers Quarters
*1 AS 3	Mess Enlisted	1 AZ 3	Mess Enlisted
*1 AS 4	Mess Officers	1 AZ 4	Mess Officers
1 AS 5	Galley	1 AZ 5	Galley
1 AS 6	Bakery	1 AZ 6	Bakery
1 AS 7	Preparation	1 AZ 7	Preparation
1 AS 8	Scullery	1 AZ 8	Scullery
1 AS 9	Storage Dry	1 AZ 9	Storage Dry
1 AS 10	Refrigerated Storage	1 AZ 10	Storage Refrig.
1 AS 11.1	Lndry Boiler Plant Disenf.	1 AZ 11.1	Lndry Boiler Plant Disenf.
1 AS 11.2	Lndry Dry Cleaning	1 AZ 11.2	Lndry Dry Cleaning
1 AS 11.3	Lndry Linen Storage	1 AZ 11.3	Lndry Linen Storage
1 AS 11.4	Lndry Washer Hut	1 AZ 11.4	Lndry Washer Hut
1 AS 11.5	Lndry Ironer Hut	1 AZ 11.5	Lndry Ironer Hut
1 AS 11.6	Lndry Shirt Finishing	1 AZ 11.6	Lndry Shirt Finishing
1 AS 11.7	Lndry Storage	1 AZ 11.7	Lndry Storage
1 AS 12	Shower & Latrines Enlisted	1 AZ 12	Shower & Latrines Enlisted
1 AS 13	Shower & Latrines Officers	1 AZ 13	Shower & Latrines Officers
*1 AS 14	Recreation Enlisted	1 AZ 14	Recreation Enlisted
*1 AS 15	Recreation Officers	1 AZ 15	Recreation Officers
*1 AS 16	Radio	1 AZ 16	Radio
*1 AS 17	Administration	1 AZ 17	Administration
1 AS 18	Storage Aircraft	1 AZ 18	Storage Aircraft
1 AS 19	Storage General	1 AZ 19	Storage General
1 AS 20	Generator House	1 AZ 20	Generator House
*1 AS 21	First Aid	1 AZ 21	First Aid
*1 AS 22	Bombsight Workshop	1 AZ 22	Bombsight Workshop
*1 AS 23	Ready Magazines	1 AZ 23	Ready Magazines
*1 AS 24	Guard House	1 AZ 24	Guard House
*1 AS 25	Maintenance	1 AZ 25	Maintenance
*1 AS 26	Torpedo Gyro Shop	1 AZ 26	Torpedo Gyro Shop
*1 AS 27	Exploder Mech Shop	1 AZ 27	Exploder Mech Shop
1 AS 28	Wards Surg Med	1 AZ 28	Ward Surgical & Medical
1 AS 29	Wards Isolation	1 AZ 29	Ward Isolation
1 AS 30	Wards N. P.	1 AZ 30	Ward N. P.
1 AS 31	Wards S. O. Q.	1 AZ 31	Ward S. O. Q.
1 AS 32	Surgery	1 AZ 32	Surgery
1 AS 33	X Ray	1 AZ 33	X Ray
1 AS 34	Laboratory	1 AZ 34	Laboratory
1 AS 35	Dental Pharmacy	1 AZ 35	Dental Pharmacy
1 AS 36	Dental	1 AZ 36	Dental

* Denotes standard hut.

TABLE 3 (Cont'd)

<u>STANDARD & SPECIAL HUTS</u>		<u>TROPICAL STANDARD & SPECIAL HUTS</u>	
1 AS 37	Pharmacy	1 AZ 37	Pharmacy
1 AS 38	Receiving	1 AZ 38	Receiving
1 AS 39	Records	1 AZ 39	Records
1 AS 40.	E. E. H. T. Urology	1 AZ 40	E. E. H. T. Urology
1 AS 41	E. E. H. T.	1 AZ 41	E. E. H. T.
1 AS 42	Urology	1 AZ 42	Urology
1 AS 43	Morgue	1 AZ 43	Morgue
1 AS 44	Aviation Exam	1 AZ 44	Aviation Exam
1 AS 45	Ships Service	1 AZ 45	Ships Service
*1 AS 46	Bag Room	1 AZ 46	Bag Room
*1 AS 47	Shop	1 AZ 47	Shop
1 AS 48.5	Galley	1 AZ 48.5	Galley
1 AS 48.10	Cold Storage	1 AZ 48.10	Cold Storage
1 AS 48.11	Laundry Temp.	1 AZ 48.11	Temp. Laundry
1 AS 49	Barber Shop	1 AZ 49	Barber Shop
1 AS 50	Tailor Shop	1 AZ 50	Tailor Shop
1 AS 51	Cobbler Shop	1 AZ 51	Cobbler Shop
1 AS 52	Refreshment Station	1 AZ 52	Refreshment Station
1 AS 53	Battery Shop	1 AZ 53	Battery Shop
1 AS 54	Officers Barracks Disp Type	1 AZ 54	Officers Barracks
1 AS 55	24' x 36' Dispensary	1 AZ 55	24' x 36' Disp (Ty)
		1 AZ 60	16' x 20' Tropical

* Denotes standard hut

NOTE

A numbering and lettering system has been set up to indicate the type and purpose of each hut. The letter "A" is used in every case.

Thus:

A2 indicates tee-rib hut to be used for officers' quarters.

MA5 specifies a tee-rib hut, tropical type, designed for use as a galley.

AS6 describes a redesign hut to be used as a bakery.

AZ8 designates a redesign hut, tropical type, employed as a scullery.

16. Equipment and Modifications for the Special Huts.

Essential equipment and modifications of the standard hut for the various special huts are given in the following brief notes. Figures 7 to 65 show sections of the different units.

Standard A1. The hut forming the bases for all others.

Officers' Quarters A2. Officers' quarters consist of a standard hut in which partitions are placed at one corner to enclose toilet facilities.

Mess Enlisted A3. A standard hut with 4-12 place wooden tables.

Mess Officers A4. A standard hut with 4-8 place wooden tables.

Galley Unit. The standard mess unit consists of eight huts - galley, bakery, preparation, scullery, two dry and two refrigerated storage huts - and is designed to handle 400 to 600 men. Structurally all are standard huts but a few alterations are made in flooring and end bulkheads. Originally, wood floor panels were prescribed for the galley, bakery, preparation and scullery huts, but concrete floors are now used. A special two-door bulkhead replaces the single door panel at one end of the galley and scullery huts.

Galley A5. In addition to the two changes noted for the galley hut, a metal boiler room to accommodate a 200 gallon boiler is attached to the side of the hut, thereby leaving more space available in the galley itself. The boiler room lean-to is about 8 feet wide by 20 feet long, and of lesser height than the hut itself. (Figure 1)

Principal galley equipment installed in the hut is as follows:

- 1 Sink
- 1 Rack, 24" x 36" x 72", for pots and pans
- 2 Tables, 30" x 72", preparation type
- 1 Table, 30" x 96", cooks type
- 1 Table, 30" x 60", preparation type
- 2 Tables, 24" x 60", preparation type
- 1 Cabinet, 24" x 72" x 60"
- 1 Mixer
- 1 Refrigerator
- 3 Ranges, oil burning
- 1 Oil Tank, 250 gallon
- 1 Coffee Urn, 60 gallon

5 Coffee bags
1 Steam table, 2'8" x 10'0"
2 Kettles, 80 gallon, steam jacketed
1 kettle, 80 gallon steam jacketed with coffee bags
1 Meat slicer
1 Vegetable steamer, three compartment.
1 Flake ice machine and storage bin

Bakery A6. Primary equipment for the bakery is listed below. Arrangement in the hut is shown on Figure 2.

1 Table, 24" x 48", preparation type
1 Table, 30" x 96", Bakers type A
1 Table, 30" x 72", preparation type
1 Hotplate
1 Sifter
1 Mixer
1 Sink, 30"
1 Refrigerator, with compressor
1 Cabinet, 30" x 60" x 84"
2 Proofers
2 Proof racks
3 Racks, bread storage
2 Dough troughs
2 Ovens (bake), oil burning
1 Bread slicer
1 Ice cream unit
1 Oil tank, 250 gallon

Preparation A7. Appliances used in the preparation hut (Figure 3) include:

1 Meat block, 30" x 30"
2 Sinks, 30"
1 Meat saw
2 Tables, 30" x 60", preparation type
1 Table, 30" x 72", preparation type
1 Refrigerator
1 Food cutter
1 Vegetable peeler
1 Slicer
Shelving (as required)

Scullery A8. Disposition of the standard equipment listed below for the Scullery Hut is indicated on Figure 4.

- 1 Washer
- 9 Racks, 24" x 36" x 60"
- 1 Soiled dish table with sink
- 1 Clean dish table
- 1 Table, 30" x 72", preparation type
- 1 Sink

Dry Storage A9. Standard hut.

Refrigerated Storage A10. Standard hut with the following exceptions: The wood floor panels, joists, inner sills and tee rib tie straps are omitted; screened bulkheads replace the standard bulkheads; the smoke pipe is replaced by a third ventilator; a concrete curb is added to increase the height. A concrete floor is optional. It should be noted that the hut itself is not a refrigerator--it holds refrigerators.

Laundry Unit All.1 to All.7. The laundry unit consists of seven buildings and serves 1000 men on an eight hour shift or 2000 men on a sixteen hour basis. Designations of the buildings are:

- All.1 Laundry Boiler Plant and Disinfecto
- All.2 " Dry Cleaner
- All.3 " Linen Storage
- All.4 " Washer Hut
- All.5 " Ironer Hut
- All.6 " Shirt Finishing and Delivery
- All.7 " Storage Hut

A construction laundry unit made up of three huts - washer, ironer and storage huts - has been used for a preliminary or construction setup and is satisfactory for a small force.

Laundry Boiler Plant and Disinfecto All.1. The laundry boiler plant and disinfecto hut is standard except for the following: Double door bulkheads replace standard bulkheads at each end; a concrete floor replaces the wood floor; partitions and doors are added as indicated on Figure 5. Essential equipment consists of:

- 1 Hot water storage heater capable of heating 200 gallons of water per hour
- 1 Cleaver-Brooks "oilbilt" steam generating plant 80 H.P.
- 1 Tankless water system - 150 gpm centrifugal pump
- 1 Disinfecto, American Kinyon-Francis, 32" x 42" x 84"
- 1 Fuel oil storage tank, 550 gallon.

Shower and Latrine Enlisted A12 - Officers A13. A shower and latrine hut accommodates 100 men or 50 officers. The only difference between the officers' hut (A13), Figure 6, and the enlisted men's (A12), is in the type of lavatories used.

Structurally, the shower latrine building is a standard hut with partitions and other items added. The following equipment is provided:

- 8 Shower heads
- 1 Sheet metal pan, wainscot and curb
- 1 Slatted floor panel for shower room
Plywood finish for shower room
- 1 Scrub bench, 4 feet long
- 1 Wood seat, 12 feet long
- 1 Steam boiler and oil burner unit complete with controls, squastat and 200 gallon copper storage tank
- 1 Fuel oil storage tank, 275 gallon
- 6 San-equip chemical toilets with bowls, seats, tanks, etc.
- 10 Lavatories (two batteries of five each)

Recreation Enlisted A14. Standard hut with miscellaneous recreation facilities.

Recreation Officers A15. Standard hut with miscellaneous recreation facilities.

Radio A16. Standard hut.

Administration A17. Standard hut.

Storage Aircraft A18. Standard hut with double door bulkheads at both ends.

Storage General A19. Standard hut with double door bulkheads at both ends and standard shelves.

Generator House A20. Standard hut with double door bulkheads. The flooring is omitted and replaced by hard tamped earth. Timber cross sleepers and longitudinal base pieces are added.

First Aid A21. Standard hut.

Bombsight Workshop A22. Standard hut.

Ready Magazines A23. Standard hut.

Guard House A24. Standard hut with wire mesh partitions to form five cells and special mesh and channel frame screen guards for bulkhead windows. Toilet facilities at one end.

Maintenance A25. Standard hut.

Torpedo Gyro Shop A26 Standard hut.

Exploder Mechanical Shop A27 Standard hut.

Ward Surgical Medical A 28 Standard hut with 4 dormers and partitions added to serve as a 10-bed ward. Toilet facilities provided include a chemical toilet, lavatory, service sink, shower cabinet and 20-gallon water heater with fuel storage tank.

Ward Isolation A29. Standard hut with 4 dormers and partitions added to serve as a 6-bed ward. Toilet facilities include a chemical toilet, lavatory, shower cabinet, water heater, and fuel oil storage tank.

Wards N. P. A30. Same as A29 except wire partitions replace the plywood ones.

Wards SOQ A31. Standard hut with 4 dormers and partitions added to serve as a 10-bed ward. Toilet facilities include a chemical toilet, lavatory, shower cabinet, water heater, and fuel oil storage tank.

Surgery A32. Standard hut with 5 dormers and 2 partitions added to provide two operating rooms. A metal boiler and battery room is also attached. The equipment includes a set of 2 lavatories, a dressing sterilizer set, a water sterilizer set, instrument sterilizer set, heat pak boiler set with 275-gallon fuel oil storage tank, 3 unit heaters, switches and controls, etc.

X-Ray A33 Standard hut with one dormer and 3 sets of partitions added to provide two radiographic rooms, a dark room and an office. Hut equipment consists of a lavatory and 20-gallon water heater with control valve and fuel oil storage tank.

Laboratory A34. Standard hut with the addition of 4 dormers 26 $\frac{1}{2}$ " wide counters extending full length on both sides, four 24" x 20" acid resisting counter sinks and faucets, and a 20-gallon water heater complete with control valve and 75-gallon fuel oil storage tank.

Dental Pharmacy A35. A standard hut with 6 dormers and a partition dividing the hut into two 16' x 18' rooms - one a pharmacy, the other a dental office. A full length counter with one 24" x 20" acid resisting sink runs along one side of the pharmacy with shelving on the other side and along the partition. A lavatory and 20-gallon water heater with 75-gallon fuel oil storage tank are placed in the dental office.

Dispensary Dental Hut A36. Standard hut with 8 dormers and three sets of cross partitions. Plumbing includes 4 sets of lavatories, basin faucets and a 20-gallon water heater with 75-gallon fuel oil storage tank.

Pharmacy A37. Standard hut with 4 dormers, a 2'2" x 12'0" counter with 24" x 20" sink, a 2'2" x 15'6" counter across one end of the hut, and shelving along both sides, and a 20-gallon hot water heater with 75-gallon fuel oil storage tank.

Receiving A38 Standard hut with partitions, a counter and shelf units added to form a 3-bed ward, receiving room, sterilizing room and toilet room. The plumbing includes a one-bowl chemical toilet, 20" x 16" lavatory, shower cabinet, service sink, 20-gallon water heater with 75-gallon fuel oil storage tank.

Records A39. Standard hut with shelving along the full length on one side and extending eight panels on the other.

EENT. Urology A40. Standard hut with 4 dormers and a partition across the middle to form two 16' x 18' units. Four sets of acid resisting straddle stands and a 20" x 16" lavatory in the Urology section with a similar sink back to back in the EENT. half and a 20-gallon water heater with a 75-gallon fuel oil storage tank are provided.

EENT. A41. Standard hut with 4 dormers and a full partition (with door) across the middle of the hut. Lavatories stand back to back on opposite sides of the partition. A hot water heater and 75-gallon fuel oil tank are provided.

Urology A42. Standard hut with 4 dormers, one cross partition and the following items added:

- 1 - 2'2" x 12'0" counter with sink
- 1 - 5'8" high shelving unit
- 2 - lavatories
- 8 - straddle stands
- 1 - hot water heater with 75-gallon fuel oil tank

Morgue A43. Standard hut with one standard bulkhead replaced by a double door bulkhead, 4 dormers and a cross partition at the third point of the length added. Plumbing includes a 24" x 20" service sink and a 20-gallon water heater with 75-gallon fuel oil storage tank. Two 2-body morgue refrigerators cover an 8' x 12' area.

Aviation Exam. A44. Standard hut with 2 dormers on one side of the hut used for an examining room. Two partitions enclose a 6'0" x 26'0" Phorometer Alley.

Ships Service A45. Standard hut with 4 dormers. A counter and shelving across the center leaves one half of the hut clear while shelving extends along both sides of the other half.

Bag Room A46. Standard hut.

Shop A47. Standard hut.

Galley A48.5. A construction galley consists of three huts with cross plumbing connections, the three being galley, scullery, and combination bakery and preparation. Attached to the galley is a boiler room with boiler and hot water tank inside and 550-gallon fuel oil tank outside. Principal equipment is as follows:

Galley

1 sink	1 refrigerator
1 table	3 ranges
2 cook's tables	3 urns
1 cabinet	6 kettles

Bakery and Preparation

3 tables	1 sink
2 refrigerators	1 peeler
1 slicer	1 rack
1 bread slicer	1 oven
1 meat cutter	1 mixer
2 blocks	1 cabinet
1 through proofer	

Scullery

1 washer with counters, sinks, etc.
1 sink
2 tables
1 rack
1 cabinet

Cold Storage A48.10. A standard hut modified as follows:

Omit shelves and shelf brackets
" ventilator and smoke stack
" standard door panels
" bulkhead top panels and two bulkhead bottom panels
Add two bulkhead top panels at door end
" new door panel
" new machine-end bulkhead
" new interior bulkhead
" insulation to standard bulkhead bottom panels
" insulation to standard floor panels and to curved area of hut
" metal flashing to standard bulkhead bottom panels
" metal pans to cover insulation at bottom of floor panels
" metal clips to hold insulation in curved area of hut
" wood sealing strips and fillers of floor panels.

Laundry Temp. A48.11. Standard hut with the following items included:

Three sets of 2 part 24" x 48" cement laundry trays with faucets, etc.
Six 10# capacity electric washer (domestic type)
Boiler with oil burner, aquastat, etc.
Tankless heater
Three 30" roll ironers
Twelve electric irons and iron boards
Three shake-out tables for ironers 3'0" x 6'0" knock-down

Barber Shop A49. Standard hut with 4 dormers on one side; a 32 ft. long partition 3 ft. in from the other side; six chairs on the hut center line with 6 lavatories along the partition; two shelves; one 12'0" and one 14'0" long bench; and a hot water heater.

Tailor Shop A50. Standard hut with 5 dormers. The equipment provided is as follows:

Three 2'6" x 10'0" tables
Six or ten 1'9" x 4'0" sewing machines
Two 1'8" x 10'0" pipe clothes racks
Two mirrors.

Cobbler Shop A51. Standard hut. Three counters and a railing, 5 jacks, 2 stitchers, a finisher, trimmer, splitter and shelving comprise the equipment.

Refreshment Station A52. Standard hut with the following equipment:

- 2 4'2" x 12'0" mess tables
- 1 4'2" x 8'0" mess table
- Soda fountain with counter and shelves
- Table with electric hot plate and pots
- Ice-making machine 2000#/day
- Ice cream freezer and hardener
- Carbonator and carbonic gas drums
- 20-gallon water heater unit with 75-gallon fuel oil tank

Battery Shop A53. Standard hut with special electrical layout.

Officers' Barracks-Dispensary Type A54. Standard hut with one-bowl chemical toilet, 20" x 16" lavatory, 30" x 30" x 76" steel cabinet and receiver shower, and 20-gallon hot water heater unit with 75-gallon fuel oil tank, similar to A31.

24 x 36 Dispensary A55. A redesign steel hut with a one-bowl chemical toilet, 24" x 20" slop sink, 20" x 16" lavatory, 30" x 30" x 76" steel shower cabinet, and 20-gallon water heater unit with 75-gallon fuel oil tank.

17. "Redesigned" Huts. The newer type hut in which special light weight steel sections replace the T-ribs has been designated the "redesigned" hut. Steel sections are also used in the bulkheads and for sills, joists and purlins.

Advantages of the redesign hut are as follows:

- (1) Saving in weight and volume (important in shipping).
- (2) Small saving in cost.
- (3) Increased strength (approx. 250%).
- (4) Floor system is termite proof.
- (5) Somewhat easier to erect.
- (6) Slightly greater efficiency of the floor area due to the vertical sides.
- (7) Internal appearance is better.

Disadvantages of the redesign hut are:

- (1) Steel sections are thin and subject to complete loss due to rusting if paint is disturbed.
- (2) Metal sheets are not interchangeable.

Other points entering into the fabrication of the two types are the availability of lumber for sills and the special steel sections, difficulty of procuring and bending steel T-ribs, production speed, elimination of the painting of T-ribs, etc.

Figure 66 is an isometric drawing of the redesigned 16' x 36' Quonset hut. Table 4 lists the crate contents for a standard redesign hut. Table 5.

18. Erection Instructions for Redesigned 16' x 36' Quonset Hut
A thorough study of Isometric view and detail drawings should be made by persons in charge before starting to erect Hut.

NOTE: For locations and parts numbered and described in these instructions, see Isometric drawing of Hut.
(Figure)

1. Level and tamp area 20' x 50' at site of Hut.

2. Assemble the five sills (parts 1, 2 & 3) approximately 4'0" apart, as shown on plan below, placing and screwing floor joists (part No. 4) to the top of sills. End sills have 4 holes in one end and 2 holes in other end. Place the 4 hole end at bulkhead end of Hut.

Each sill should be blocked at both ends and at splices.

To square up Floor Assemblies ---

Distance "A" must equal Distance "B"

After checking Distance A and B tighten bolts on sill splices.

3. Holes in the bottom flange of the joists match with the holes in the top flange of sills which automatically spaces the sills in their correct location. The floor joists are spaced 2'0" apart.
4. Place channel sill plates (parts 5 & 6) on top of the floor joists directly over outside sills and screw channels at each floor joist with holtite screws (part 13).
5. It is essential that floor steel is absolutely square and level before erecting the balance of steel framing of the Hut.

NOTE: Floor panels may be laid temporarily on joists for platform to erect ribs and purlins.

6. Assemble ribs (parts No. 7 and 8) on ground. Use washers both sides of ribs on 3/4 splice bolts.
7. Sort the rib sections and erect end rib, (part No. 7) having wooden blocks facing outside for fastening bulkhead panel. Place bottom end of rib into channel sill plate and fasten it with holtite screws (part No. 13). Continue erecting the intermediate ribs (part No. 8), 4'0" apart, in a similar manner.
8. After the second rib has been erected, fasten half purlins (part No. 11) to ribs. This will hold the erected ribs in place. Half purlins are used only on the three lower sets of holes in ribs each side of hut. Full length purlins (parts 9 & 10) are used on 6 upper sets of holes in ribs.
10. Fasten the two rows of top purlins (parts No. 9 & 10) to the ribs with holtite screws, and continue to fasten the rest of the purlins, also the parts (No. 8 & 9) on the sloping sides of the ribs. End purlins (part No. 9) are 12'1". Center purlins (part No. 10) are 12'0".

NOTE: Steel rib sections are built with crimped webs to receive and hold nails. Be sure to drive all nails so as to enter crimped slot.

11. Nail trimmers, (part No. 12) in a straight line in the center of sloping sections on the inside face of the ribs. (See Drawing QN-1-163 for location of trimmers.) With this operation the framing of the entire hut has been completed.

NOTE: BE SURE TO PLUMB FRAME BEFORE PROCEEDING.

12. Nail 1" x 4" or 1" x 6" wood floor sleepers (part No. 19) to floor joists. One strip to be placed at the center of the Hut and one at each side parallel with the floor channels leaving 1/2" clearance between, to allow masonite lining to slide into space.
13. Place floor panel sections (part No. 20) in location as shown, and secure same with screws (part No. 38) at each corner to sleepers, after masonite is in place.

14. MASONITE LINING

4'0" x 12'0" masonite sheets (part No. 22) are to be used for the vertical sides and the first sloping sides of the Hut. Install bottom sheets be starting midway of Hut working each way towards ends, placing them against vertical legs of ribs and slide down into space between floor panel and rib. It is IMPORTANT that the top edge of these sheets is level before placing metal vertical nailing strips (part No. 24) over masonite and nailing to ribs with wire nails (part No. 35).

15. Slip sheet metal joint strips (part No. 25) over top edge of erected masonite and then proceed with installing rest of 4'0" x 12'0" sheets.

The 4'0" x 4'0" sheets of masonite (part No. 23) are to be placed in the horizontal and two top sloping sides of the Hut. The three (3) sheets having holes for ventilators and smoke stack are to be placed in locations as shown on drawings. After all sheets of masonite are in place, drive one (1) nail in center of each sloping square of masonite into trimmer to prevent sheets from bulging.

16. BULKHEADS

First install door panel (part No. 14) in absolute center of Hut, followed by bottom side panels (parts No. 15 and 16) secured with screws (part No. 39) to floor of hut and to wood blocks in vertical leg of end ribs. Then proceed with the installation of the upper panels which contain the windows (parts No. 17 and 18). Attach window and door panels to end ribs with hook bolts (part No. 36) through holes provided in bulkhead panels. Insert screws (part No. 41) through holes provided in bulkhead panels and fasten all panels to door frame.

17. INSULATION (part No. 21)

Cover entire outer area of masonite between ribs with insulation, starting at bottom and lay sheets against masonite and staple to masonite with stapling machine and staples provided in tool box.

NOTE: If outside guy cables are required proceed as described in Paragraph 18.

18. Run cables (wire rope) around half purlins at start of first sloping side and secure with cable clamps. There are three (3) cables at each side of Hut. Punch hole in overhanging corrugated sheet, lead cable thru and clip to dead man or stakes.
19. Install corrugated vertical sheets (part No. 30). Locate first sheet to overhang 1'0" from center of end rib. Top of sheet to be 2 $\frac{1}{2}$ " above center line of half purlin. (See Drawing No. QN-1-163). Proceed with curved corrugated sheets (part No. 29). With punch found in tool box, punch sheets to receive nails and secure with 2" long galvanized double headed nails (part No. 34) driven into the purlins. Each nail is to have a lead washer. Drive nails in valleys of corrugated sheets as shown in detail on Drawing No. QN-1-138. A reasonable spacing for nails is indicated on the isometric view of the Hut. Place top sheets with holes for ventilators and smoke stack at location shown. BE SURE TO START CURVED TOP SHEETS SO THAT HOLES FOR VENTS AND SMOKESTACK WILL LINE UP WITH HOLES IN MASONITE. Fasten curved and flat corrugation at overhang of bulkhead with stove bolt, (part No. 31).
20. Install the two ventilators (part No. 32) and one smoke stack (part No. 33) (furnished with stove.) The sleeve is inserted up through the hole from the inside of the Hut. This connection is interlocking. Fit the ventilators and smokestack with attached flashing over these sleeves and nail them with double-headed nails to the purlins.
21. Attach electric conduit and ceiling fixtures with clips provided to the metal nailing strips at the level portion of the ceiling.

Where side outlets are required, attach same to the metal nailing strips along the sides of the Hut.

Attach entrance junction box to bottom bulkhead panel on the inside and plug in ceiling fixtures and side outlets to receptacle on panel. (See Electric Isometric).
22. Install brackets No. 27 for shelves to sloping metal nailing strips and place wood shelves No. 28. For location of shelves and brackets see Detail Drawing QN-1-163.
23. METAL SHELVES

If metal shelves are furnished, secure same with 8 penny nails through holes provided in vertical metal nailing strip (part No. 24).

ADDITIONAL INSTRUCTIONS
FOR
TROPICAL HUT ERECTION

Additional Drawing No. QN-1-155

Erection is identical with standard instructions except:

1. Corrugated Sheet Steel roof overhang from center of the Bulkhead rib instead of 1'0" will be 5'0" or 1'0" from center line of end rib outside of Bulkhead as shown on drawing No. QN-1-155.
2. Install canvas curtains at Side & Door panels of Bulkhead.
3. Place Escutcheon plates over purlins at outside face of Bulkhead and nail to plywood facia.
4. Place steel water tanks, and install 3" galvanized gutters and down spouts.

NOTE: The tropical Hut is provided with (4) four water tanks, two for each side of the Hut, and the gutters are to be installed with the high point in the center of the Hut, pitching toward the tanks at either end.

Tropical Hut is furnished with 3 ventilators and no smoke pipe.

TOOLS FOR ERECTION OF STRAN STEEL HUT

<u>Quantity</u>	<u>Descriptions</u>	<u>Use</u>
2	Claw Hammers	Driving sheeting nails and general use.
4	10" Screw Drivers	Floor, Bulkhead & Parker-Kalon Holtite self tapping screws.
1	Brace 3/8" Standard Screw Drive Bit) To use where necessary)
1	1 1/8" Bit	Bore hole for entrance of service cable in bulkhead panels.
1	1/2" Bit	Open or bore new holes in woodwork.
1	Small Plane	For fitting doors, windows, etc.
1	22" Crosscut Saw	General use.
1	Hand Ax	Cut wedges for leveling sills and general use.
1	3" Adjustable End Wrench	Bolting bulkheads.
1	1 1/8" End Wrench	Bolting connections at splices 3/4" Bolts.
1	8" Pair Pliers	Miscellaneous use.
1	Spirit Level	Leveling sills plumbing other members.
1	50' Tape	Squaring sill framing.
1	Bostitch Stapler No. T-5) Fasten insulation to Masonite sheets.)
2	Bones Staples	
1	Can Caulking Compound	Caulk holes in corrugated sheet metal (if necessary)
1	Pinch Bar	Opening Crates.
1	Hand Punch	Punching holes in corrugate sheets.
2	Drift Pins, 1/8" to 3/8" 10" long	Making connections.
1	Ball Mason Line	Miscellaneous uses.
1	12" Compass Saw	General use.
1	8 or 10 oz. Plumb Bob	General use.

REDESIGN OF 16' x 36' NORTHERN STANDARD

13 CRATES MAKE ONE COMPLETE HUT

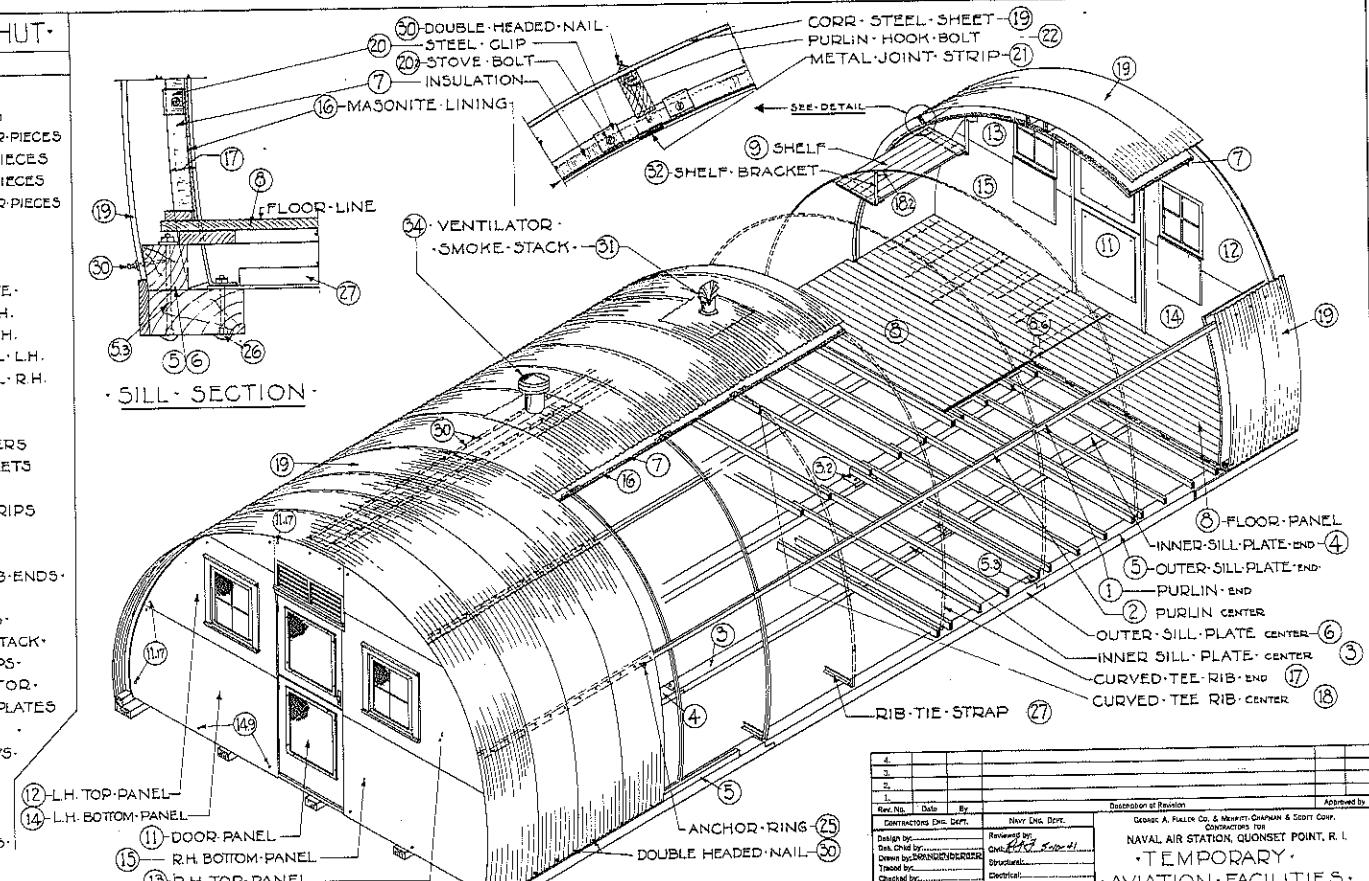
INDEX NO. 1-A-S-1

W E I G H T S							
CRATE NO.	NO. OF PIECES	CRATE CONTENTS	ITEM MARK	CRATE SIZE	CUBIC FEET	NET	GROSS
1 - Z -32-	10	Outer Sills	12'-7/8"	16'9" x 1'7" x 1'5"	38.	1820	1950
	5	Center Sills	11'11-7/8"				
	19	Floor Joists	16'08"				
	12	Outer Purlins	12'1-1/8"				
	6	Center Purlins	11'11-7/8"				
	4	Outer Sill Plates	12'1"				
	2	Center Sill Plates	12'				
	54	Outer Half Stud Trimmers	3'11 $\frac{1}{2}$ "				
	36	Inner Half Stud Trimmers	4'02"				
	40	Machine Bolts	1-3/4"				
	40	Nuts	3/4"				
	60	Washers					
	10	Steel Plates	5" x 3-3/8"				
	1000	Sheet Metal Screws	#14 Type A				
2 - Z	4	End Half Ribs	14' x 4-1/8"	16' x 1'0" x 1'5"	23.	690	750
	16	Inner Half Ribs	14' x 4-1/8"				
3 - Z	2	Door Panels Complete (w/Blackout Panels)	14	10'2" x 3'6" x 1'2"	44.	508	762
4 - A	2	Electrical Conduits	13'	14'2" x 1'3" x 9"	14	503	580
	9	Floor Sleepers	1"x4"x12"				
	70	Nailing Strips	3'10-3/8"				
	16	Joint Strips	4'				
	2	Joint Strips	4'				
	32	Joint Strips	4'				
	4	Joint Strips	4'				

MATERIAL REQUIRED PER HUT

PART NO.	NO.	DESCRIPTION OF PART
(1)	12	PURLIN - END - PIECES
(2)	6	PURLIN - CENTER - PIECES
(3)	3	INNER - SILL - PLATE - CENTER - PIECES
(4)	6	INNER - SILL - PLATE - END - PIECES
(5)	4	OUTSIDE - SILL - PLATE - END - PIECES
(6)	2	OUTSIDE - SILL - PLATE - CENTER - PIECES
(7)	1184 ^a	INSULATION
(8)	18	FLOOR - PANELS
(9)	8	WOOD - SHELVES
(11)	2	DOOR - PANEL - COMPLETE
(12)	2	BULKHEAD - TOP - PANEL - L.H.
(13)	2	BULKHEAD - TOP - PANEL - R.H.
(14)	2	BULKHEAD - BOTTOM - PANEL - L.H.
(15)	2	BULKHEAD - BOTTOM - PANEL - R.H.
(16)	972 ^b	MASONITE - LINING
(17)	20	CURVED - TEE - RIB - ENDS
(18)	10	CURVED - TEE - RIB - CENTERS
(19)	1300 ^c	CORRUGATED - STEEL - SHEETS
(20)	310	BENT - METAL - CLIPS
(21)	18	SHEET - METAL - JOINT - STRIPS
(22)	60	PURLIN - HOOK - BOLTS
(25)	6	ANCHOR - RINGS
(26)	20	CARRIAGE - BOLTS - FOR - RIB - ENDS
(27)	10	TEE - RIB - TIE - STRAPS
(30)	348	DOUBLE - HEADED - NAILS
(31)	1	SHEET - METAL - SMOKE - STACK
(32)	16	SHELF - BRACKET - STRAPS
(34)	2	SHEET - METAL - VENTILATOR
(38)	12	BOLTS FOR INNER - SILL - PLATES
(53)	20	BOLTS " OUTSIDE "
(36)	36	FLOOR - PANEL - SCREWS
(37)	24	JAY BOLTS
(115)	16	DOORJAMB - SCREWS
(45)	8	FLOOR - HOOK - BOLTS
(117)	80	TEE - RIB - SPLICE - BOLTS

NOTE: PART NOS. 10, 23, 24, 28, 29 & 33 ARE INCLUDED IN ASSEMBLED UNITS.



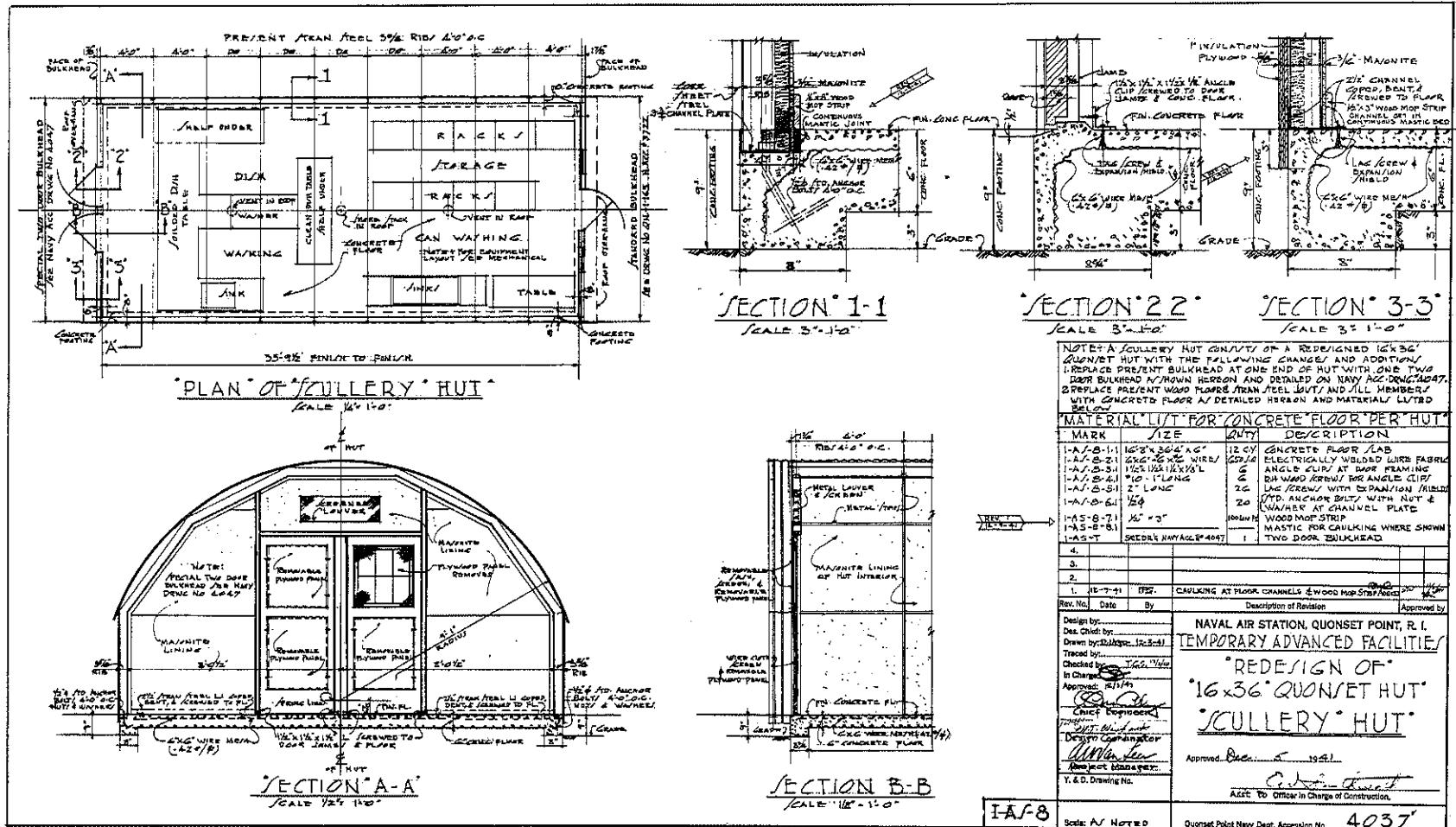
• ISOMETRIC • OF • HUT

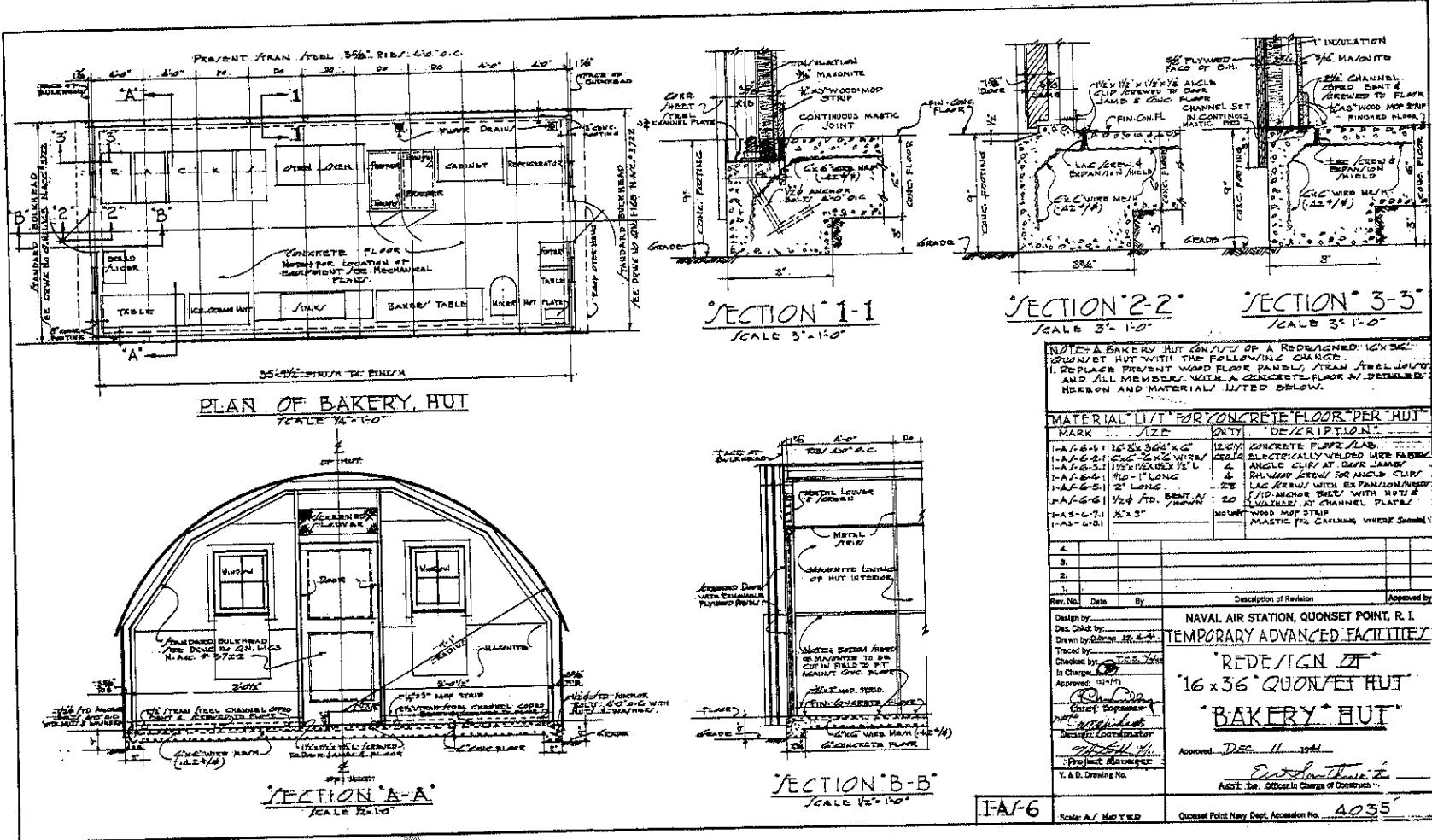
DOOR-JAMB

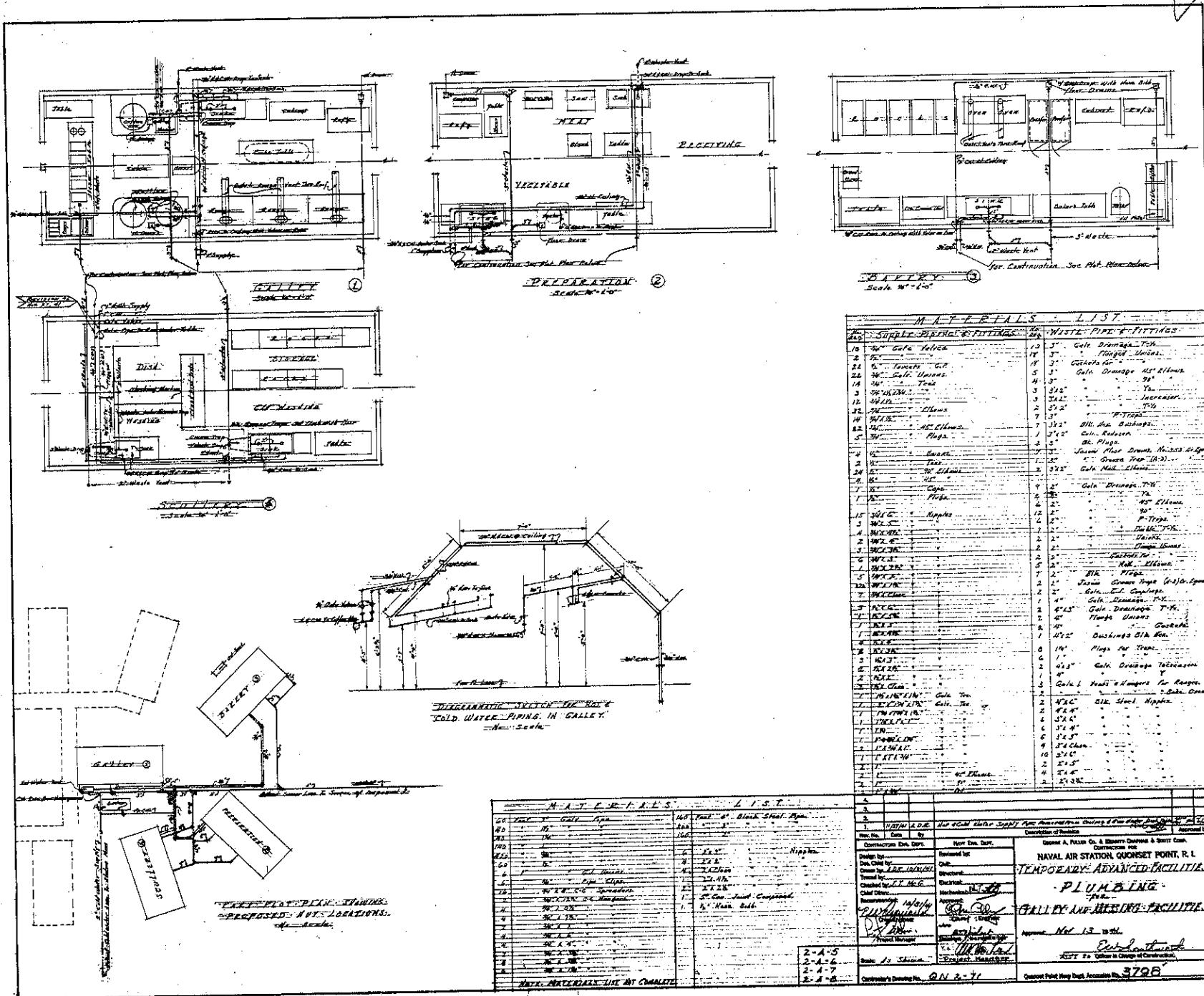
4			
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Final No.	Date	By	
CONTINUATION SHEET DEPT.		NAME ENG. DRAFT.	Destination or Revision
Design by:	Reviewed by:	Approved by	
Drawn by:	Check # <u>100-1000000</u>	George A. FULLER CO. & MURPHREE, CHAPMAN & SEDDY CO., CONTRACTORS TO THE	
Checked by:	Date	NAVAL AIR STATION, QUONSET POINT, R. I.	
Headed by:	Structural:	• TEMPORARY •	
Chief Clerk:	Electrical:	• AVIATION FACILITIES •	
Chief Officer:	Mechanical:		
Recommended:	Approved:	STANDARD 16-36 HUT	
<u>Engineering</u>	<u>Engineering</u>	Approved:	
<u>Engineering</u>	<u>Engineering</u>	<u>See 100-1000000</u>	
Project Manager:	Supervising Engineer		
V.A.C. Project Manager:	Act. In Charge		
	T. & D. Drawing No.		
Serial:			
Contractor's Drawing No.		Quonset Point Navy Dept. Appraisal No. <u>2739</u>	
QN - 3 - 22			

MATERIALS LIST FOR HEATING

Item No.	Description	Quantity	Unit
1	Clover Brooks Boiler 1000 H.P. O.D. Control & Safety Valve Set Q 30° W.R.	1	
1	Patterson-Kelley Hot Water Storage Tank 26'x16'	1	
1	H.W. Tank Stand 2-Tank Saddle 24'x8'x16' 4-Hull Floor Flanges 2"	1	
20	2" Black Steel Pipe.	20	Feet from Union
5	1 1/2"	5	
5	1 1/4"	5	
5	1 1/2"	5	
5	2"	5	
5	2 1/2"	5	
5	3"	5	
5	4"	5	
20	4 1/2"	20	
5	5"	5	
5	6"	5	
5	7"	5	
5	8"	5	
5	10"	5	
5	12"	5	
5	14"	5	
5	16"	5	
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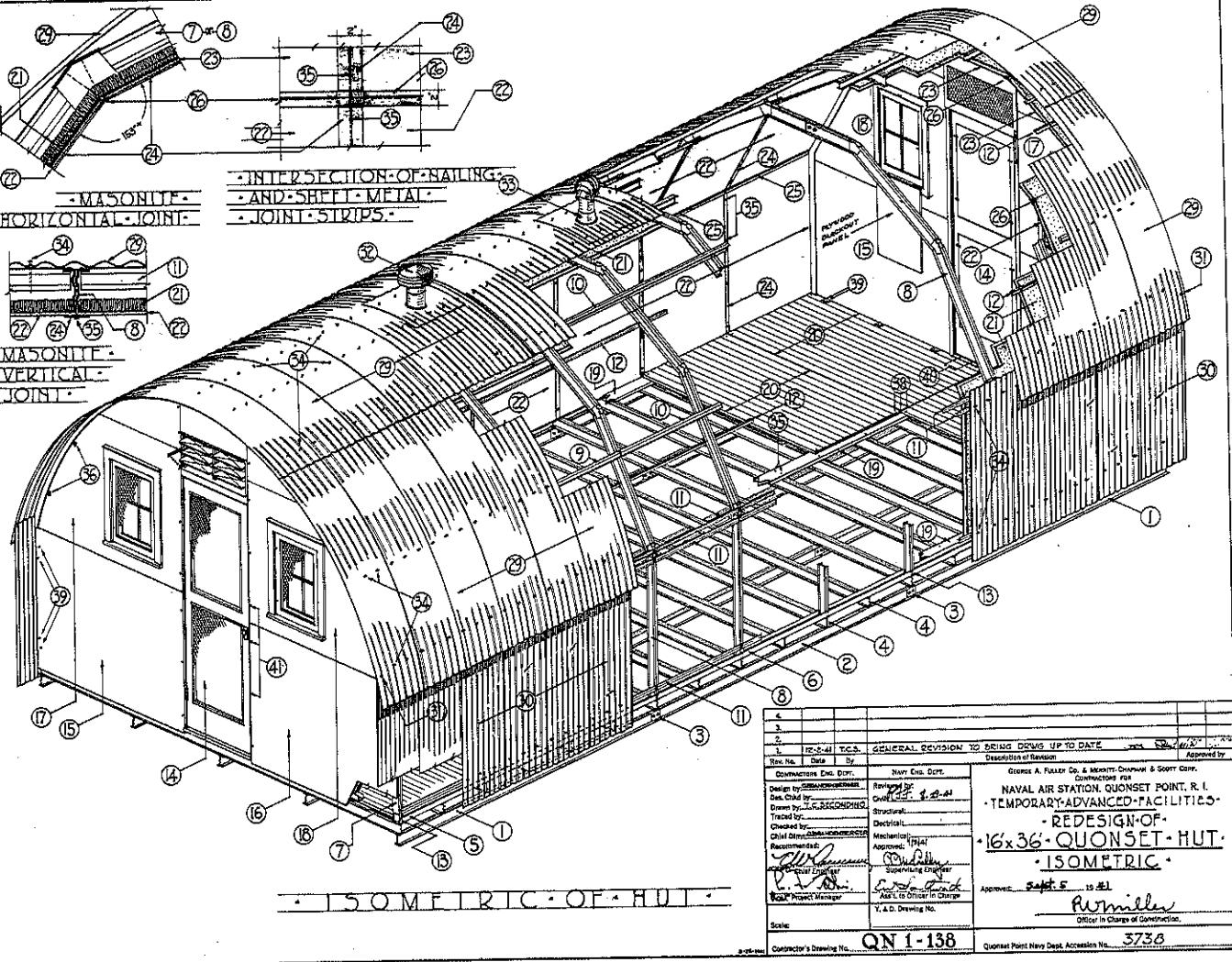


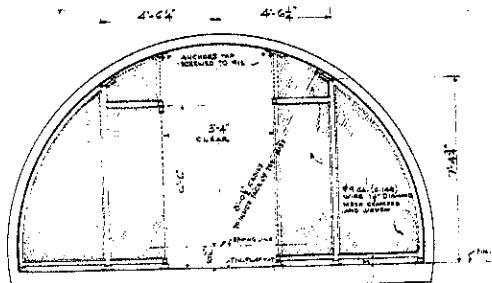


DAN. 2. 71

MATERIAL REQUIRED PER HUT

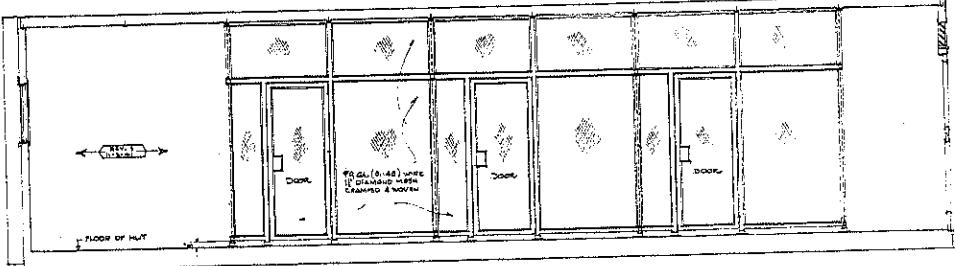
PART NO.	DESCRIPTION	NO. REQD.
①	SILL - END SECTIONS	10
②	SILL - CENTER SECTIONS	5
③	SILL - SPLICE PLATED INCL. BOLTS	10
④	FLOOR JOISTS	19
⑤	CHANNEL PLATE - END SECTIONS	4
⑥	CHANNEL PLATE - CENTER SECTIONS	2
⑦	END RIBS FOR BULKHEAD FASTENING	2
⑧	INTERMEDIATE RIBS INCL. BOLTS	8
⑨	PURLINS - END SECTIONS	12
⑩	PURLINS - CENTER SECTIONS	6
⑪	HALF PURLINS	54
⑫	TRIMMERS	36
⑬	P.K. HOLTITE SELF-TAPPING SCREWS	1000
⑭	DOOR PANELS - ASSEMBLED UNITS	2
⑮	L.H. BOTTOM BULKHEAD PANELS - A.U.	2
⑯	R.H. BOTTOM BULKHEAD PANELS - A.U.	2
⑰	L.H. TOP BULKHEAD PANELS - A.U.	2
⑱	R.H. TOP BULKHEAD PANELS - A.U.	2
⑲	FLOOR SLEEPERS	18
⑳	FLOOR PANELS - ASSEMBLED UNITS	18
㉑	APPROVED INSULATION	1000
㉒	MASONITE LINING - 4'0" x 12'-0" SHEETS	12
㉓	MASONITE LINING - 4'-0" x 4'-0" SHEETS	27
㉔	METAL VERTICAL NAILING STRIPS	70
㉕	Sheet Metal Joint Strips 143"-	18
㉖	Sheet Metal Joint Strips 153"-	36
㉗	Shelf Brackets - Not Shown	16
㉘	Wood Shelves - Not Shown	8
㉙	Curved Corrugated Steel Sheets	57
㉚	Straight Corrugated Steel Sheets	38
㉛	Stove Bolts for Steel Sheet Roof Overhang	4
㉜	Ventilators Complete with Flashing	2
㉝	Smoke Stack Complete with Flashing	1
㉞	Double Header Nails with Lead Washers	760
㉟	Common 8d Wire Nails	515
㉟	Bulkhead Rib Bolts	16
㉟	Cable Clamps - Not Shown	12
㉟	F.H. Wood Screws for Floor Panels	72
㉟	R.H. Wood Screws for Bottom Bulkhd Plyl	40
㉟	F.H. Wood Screws for Door Threshold	8
㉟	F.H.D. Screws for Face of Bulkhd Panels	32





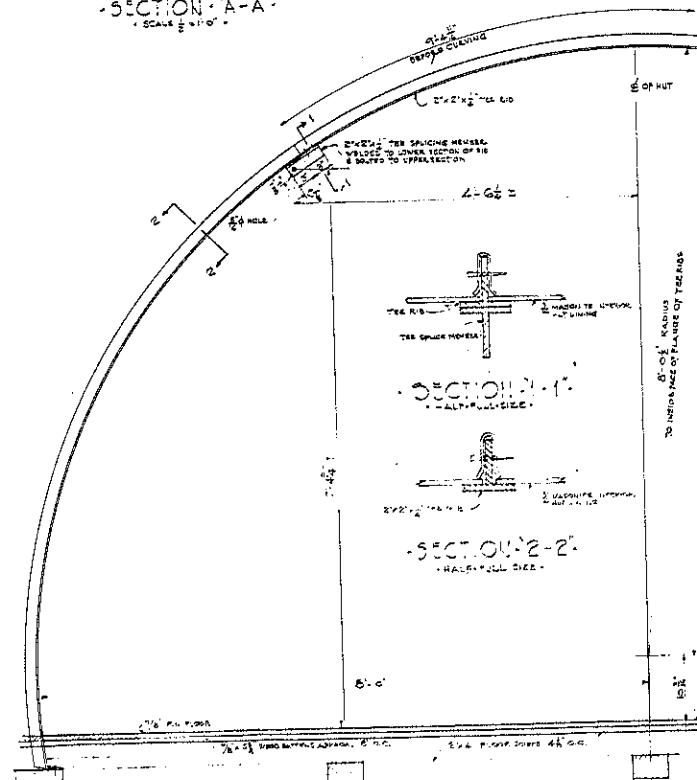
SECTION 'A-A'

SCALE $\frac{1}{8} = 1'-0"$



SECTION 'D-D'

SCALE $\frac{1}{8} = 1'-0"$



SECTION 'E-E'

HALF FULL SIZE

SECTION 'E-E'

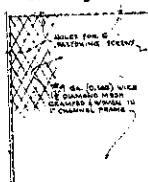
HALF FULL SIZE

**TEE 219-C FLOOR CONSTRUCTION DATA
OF 16' X 36' STANDARD QUONSET HUT**

SCALE $\frac{1}{8} = 1'-0"$

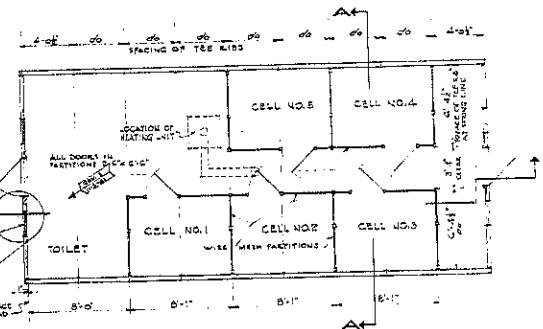
**PLAN-DETAIL-OF-WINDOW
IN-BULKHEAD-FOR WHICH
DIAMOND-MESH-AND-CHANNEL-
FRAME-SCREEN IS REQUIRED**

SCALE $\frac{1}{8} = 1'-0"$



NOTES TO BE PAINTED TO EXISTING WOOD FRAME

ELEVATION OF WINDOW SCREEN
SCALE $\frac{1}{8} = 1'-0"$
ONE REQUIRED FOR EACH HUT OR THIS TYPE



PLAN OF HUT

SCALE $\frac{1}{8} = 1'-0"$

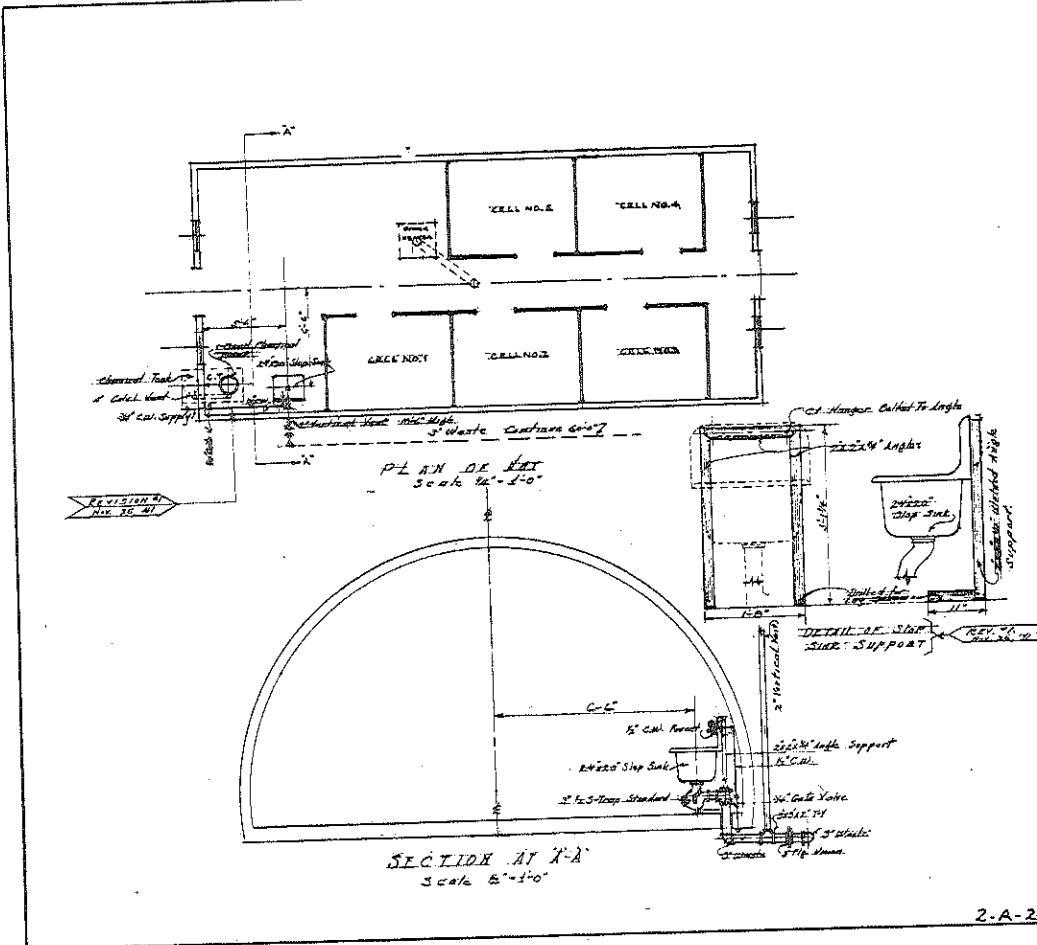
20 REQUIRED

NOTES TO VENDORS

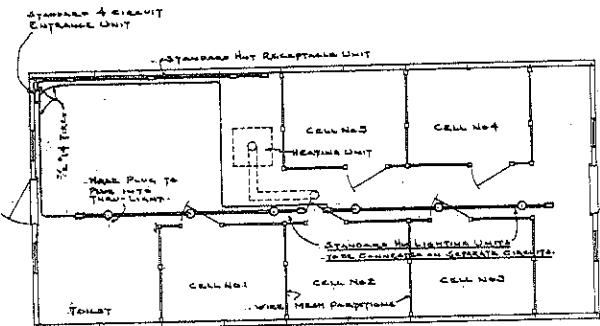
1. THIS DRAWING IS INTENDED TO SHOW THE ARRANGEMENT OF CELLS AND TOILET IN A STANDARD 16'X36' QUONSET HUT. IN SO FAR AS METAL-WIRE PARTITION DESIGN, THAT WHICH IS SHOWN ON THIS DRAWING IS A SUGGESTED DESIGN.
2. VENDORS' CONSTRUCTION DETAILS SHALL HAVE TO SUIT CONDITIONS OF STANDARD QUONSET HUT AS GIVEN ON THIS DRAWING.
3. METAL-WIRE PARTITIONS SHALL BE CONSTRUCTED ADMIRABLE FOR SHIPMENT IN CRATES APPROX. 81-1/2 X 4-1/2, AND FOR EASY ASSEMBLY ON THE JOB.
4. SUCCESSFUL BIDDER SHALL SUBMIT COMPLETE SHOP DRAWINGS OF METAL-WIRE PARTITIONS FOR APPROVAL, ALSO ASSEMBLY DRAWING AND CIGAR INSTRUCTIONS FOR PARTITION ASSEMBLY.
5. ALL HARDWARE PERTAINING TO THIS WORK SHALL BE INCLUDED IN THIS CONTRACT.

4.	5.	6.	7.	8.
1. H-0-4	2. B1	3. SCREEN PARTITION AT TOILET BETWEEN CELL NO. 1 & BULKHEAD OMITTED	4. 100-114	5. Description of Revision
Rev. No.	Date	Reviewed by	Approved by	
Contractor's Engr. Dept.	Navy Eng. Dept.			Gates A, Field Co. & Martin-Chappin & Scott Co., Inc.
Design by:	Reviewed by:			Contractor for
Des. Chkd by:	One Place, Long			NAVAL AIR STATION, QUONSET POINT, R.I.
Drawn by:	Structural			TEMPORARY AVIATION FACILITIES
Transl. by:	Checklist			
Checked by:	Metrical			
Chief Dir. or Supervisor:	Approved			
Recommendations:	Printed			
Comments:	100-114			
2. DRAFTSMAN	100-114			
3. CHECKED BY	100-114			
4. APPROVED BY	100-114			
5. DATE	100-114			
6. APPROVAL NUMBER	100-114			
7. V.D. Drawing No.	100-114			
8. Scale	AS NOTED			
9. Contractor's Drawing No.	QN-1-162			
10. Quonset Point New Dept. Acceptance No.	3721			

QN-1-162



2-69

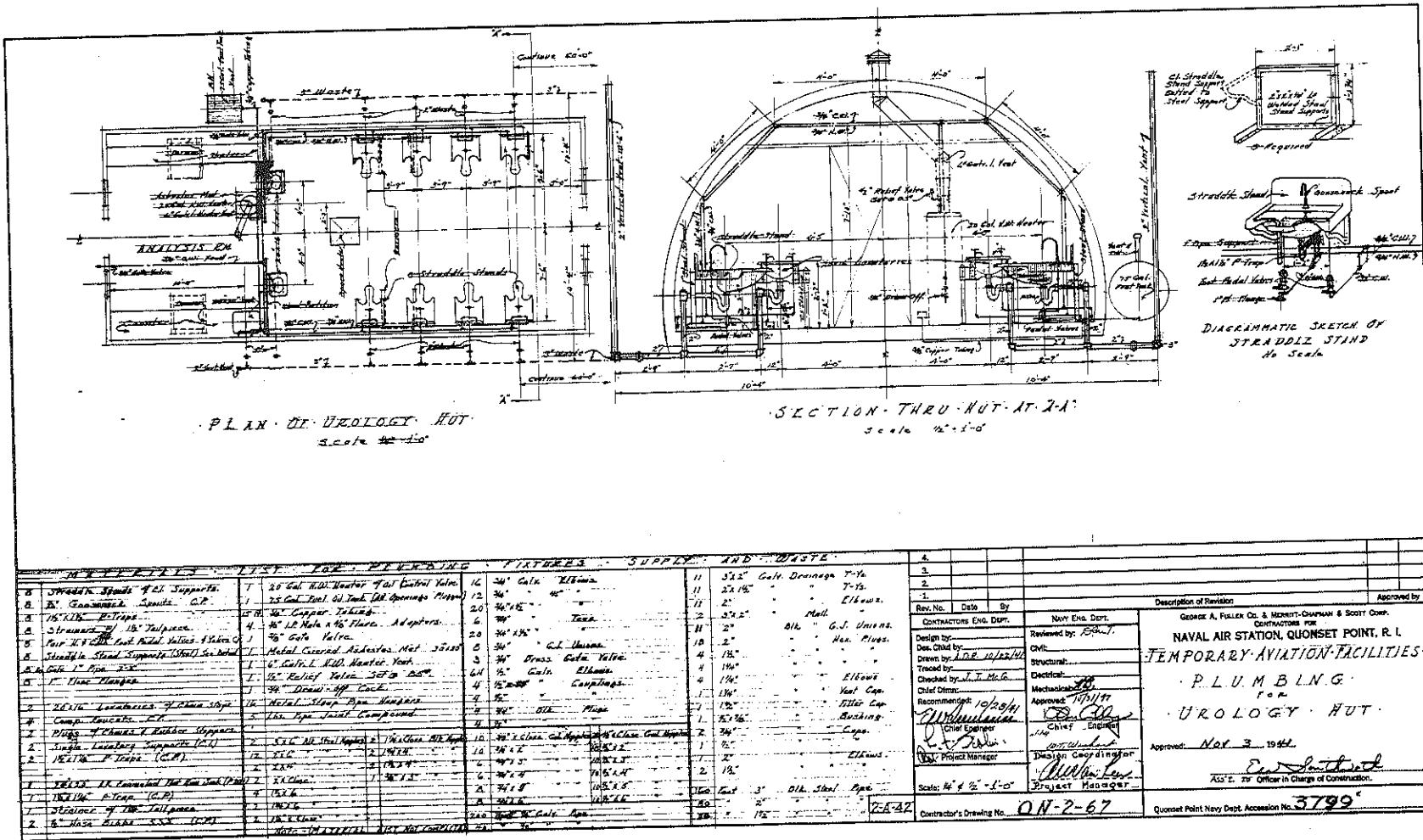


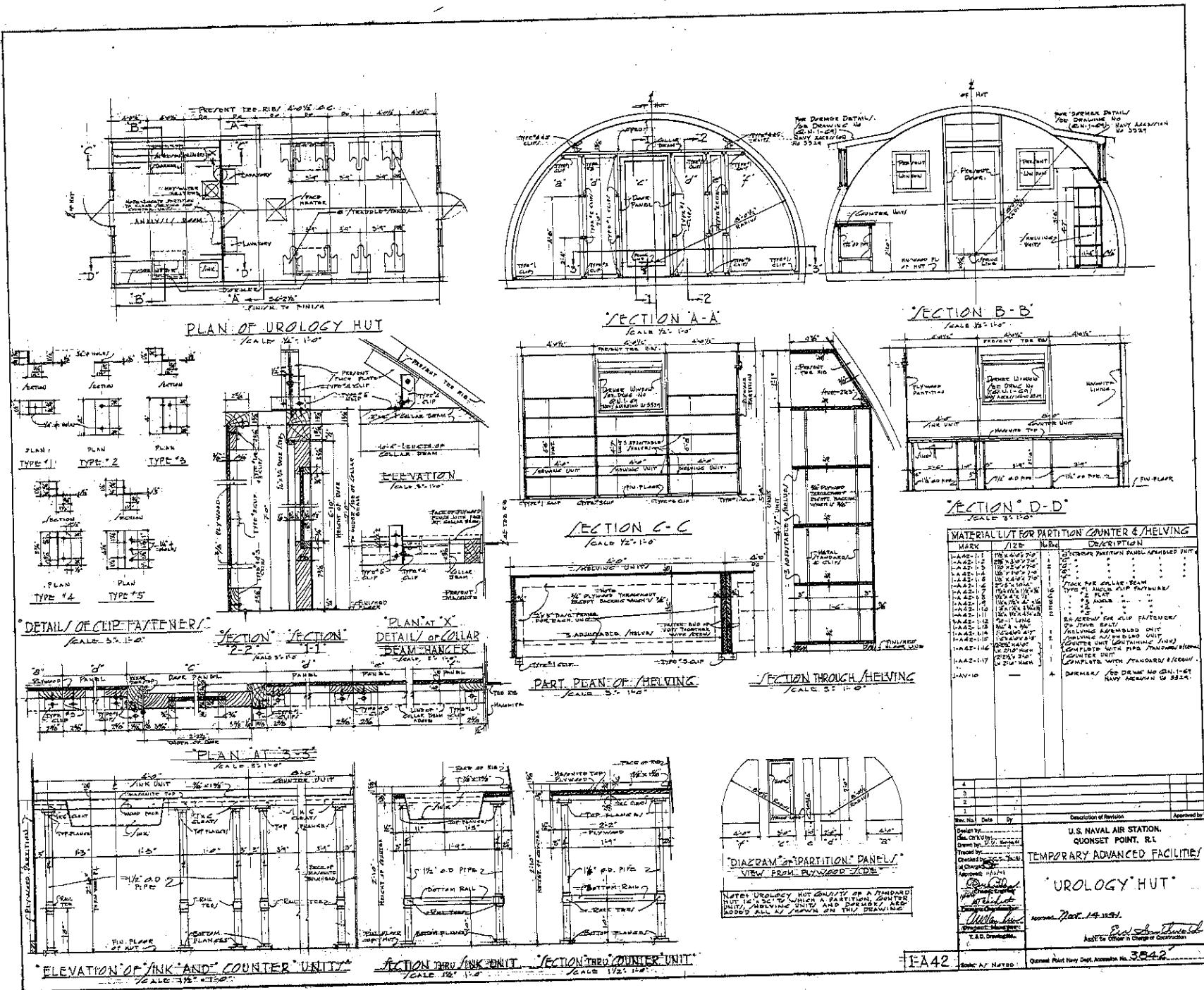
GUARD HOUSE

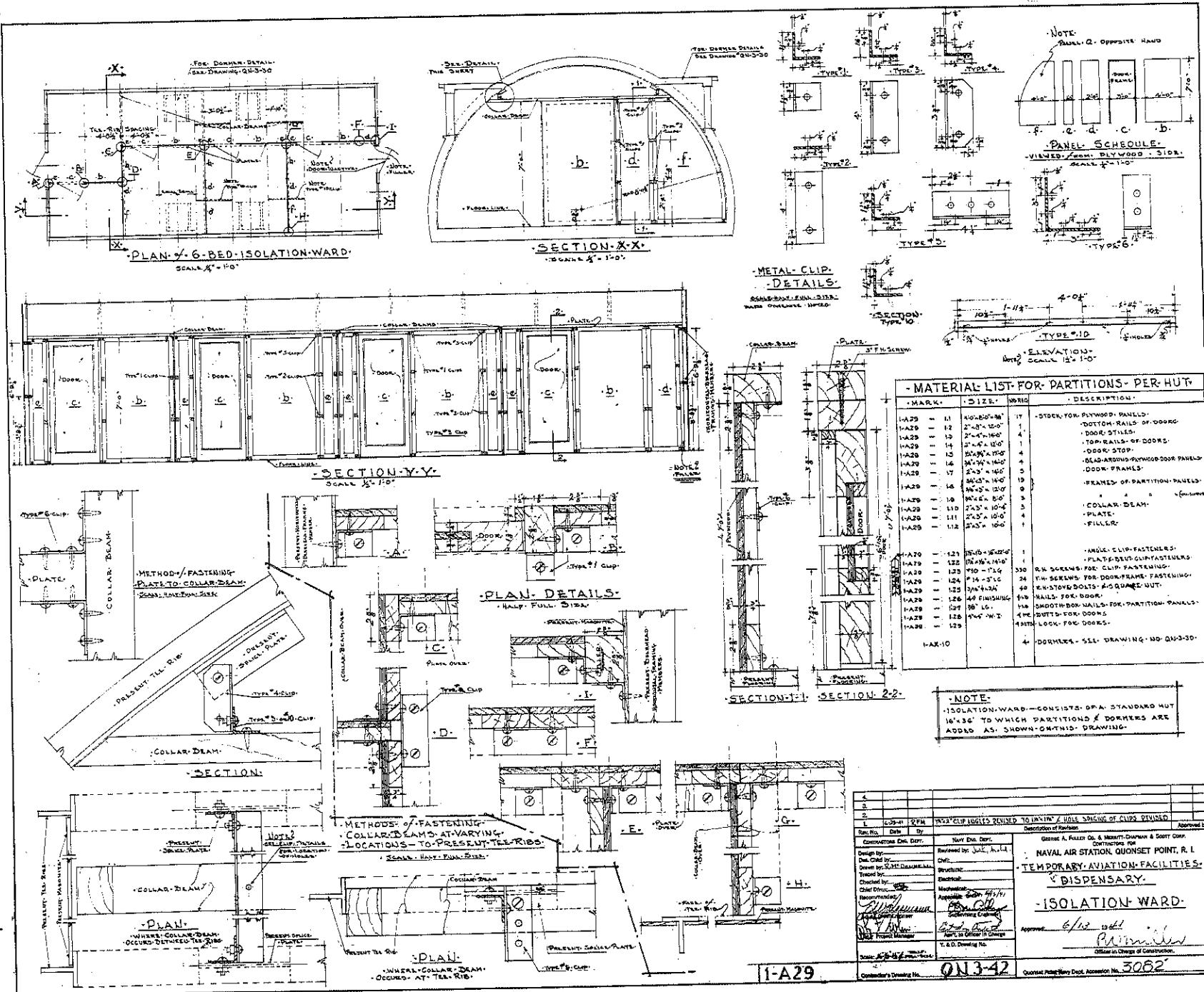
Rev. No.	Date	By	Description of Revision	Approved by
4.				
3.				
2.				
1.				
CONTRACTORS ENG. DESR. Design by: <i>M. E. L.</i> Reviewed by: <i>M. E. L.</i> Des. Chkd by: <i>(initials)</i> CIVL. Drawn by: <i>(initials)</i> Struct. Test by: <i>(initials)</i> Electrical: <i>(initials)</i> Checked by: <i>J. F. H.</i> Mechanical: <i>(initials)</i> Chief Dmngr: <i>S. D. D. A. / C. O. R.</i> Recommended: <i>(initials)</i> Approved: <i>11/3/41</i> <i>(initials)</i> <i>W. H. L.</i> <i>(initials)</i> Client Engng: <i>(initials)</i> <i>P. P. M.</i> <i>(initials)</i> Design Co-ordinator: <i>(initials)</i> T.A.F. Project Manager: <i>(initials)</i> Project Manager: <i>(initials)</i> Elect. Engr: <i>(initials)</i>				
Description of Revision George A. Fuller Co. & Messent-Chapman & Scott Corp. CONTRACTORS FOR NAVAL AIR STATION, QUONSET POINT, R. I. T.A.F. GUARD HOUSE HUT S-A-24 ELECTRICAL LAYOUT Approved: Nov 5, 1941 <i>E. J. Donaghue, AIA</i> <i>Asst. to Officer in Charge of Construction.</i> Contractor's Drawing No. QN-3-108 Quonset Point Navy Dept. Accession No. 3780				

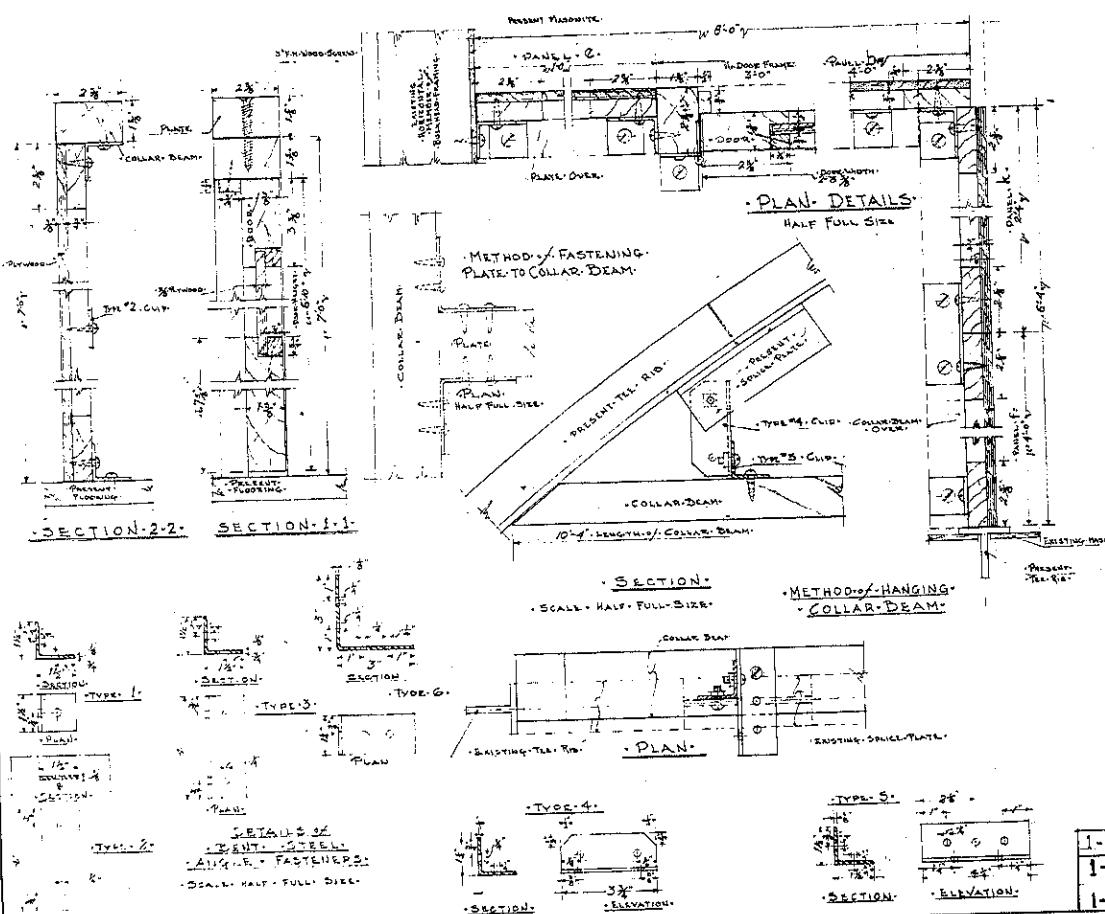
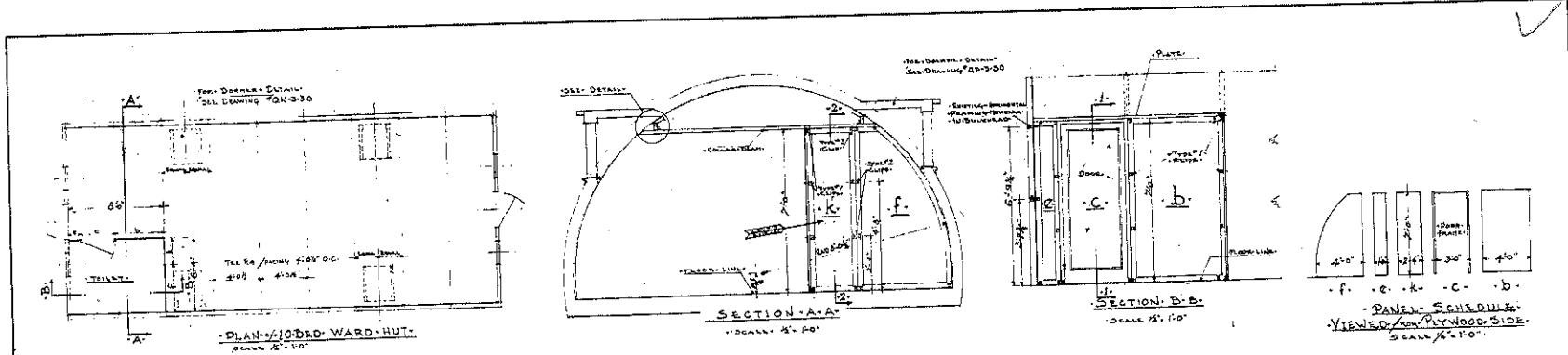
3 A-24

QN-3-108





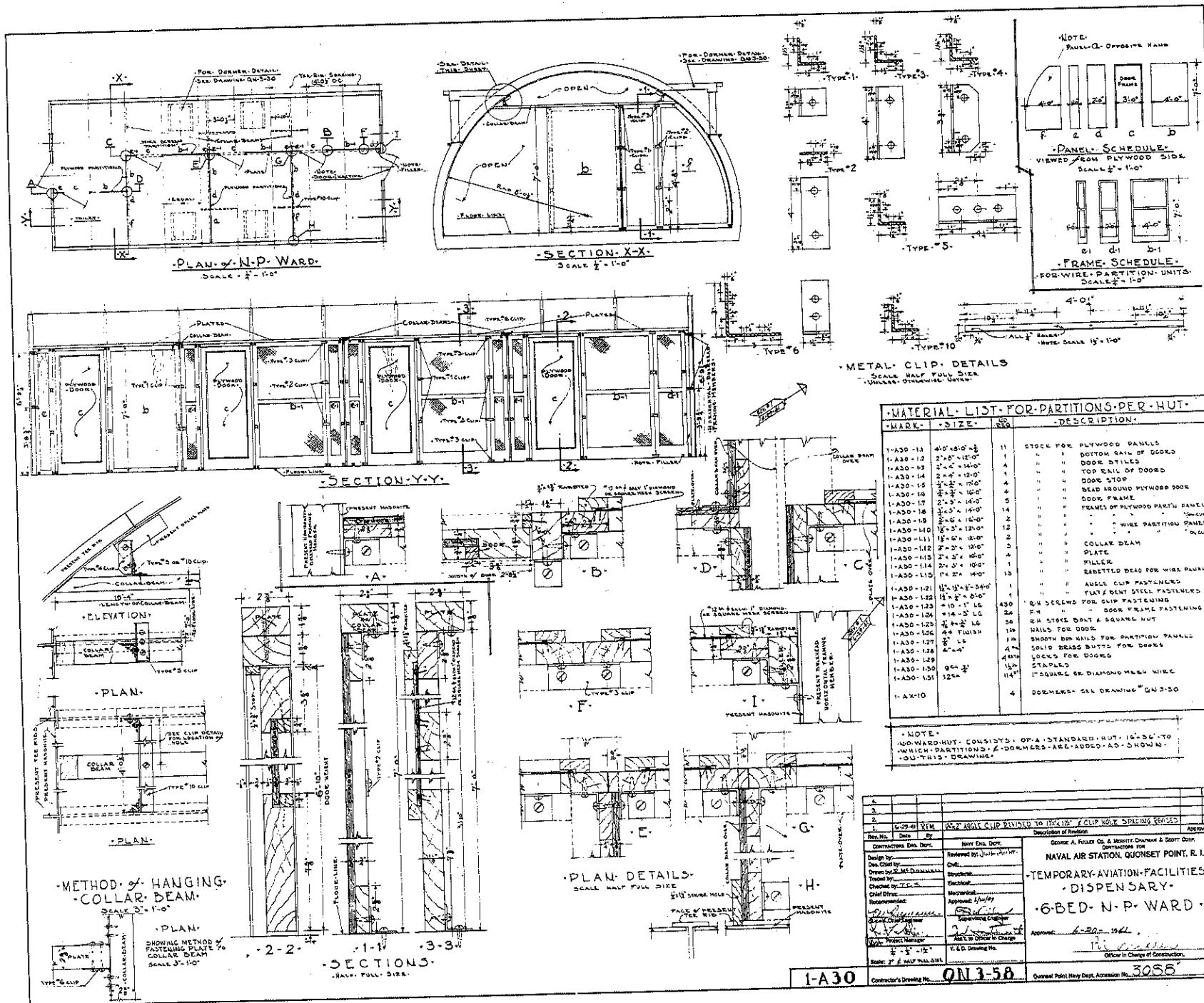


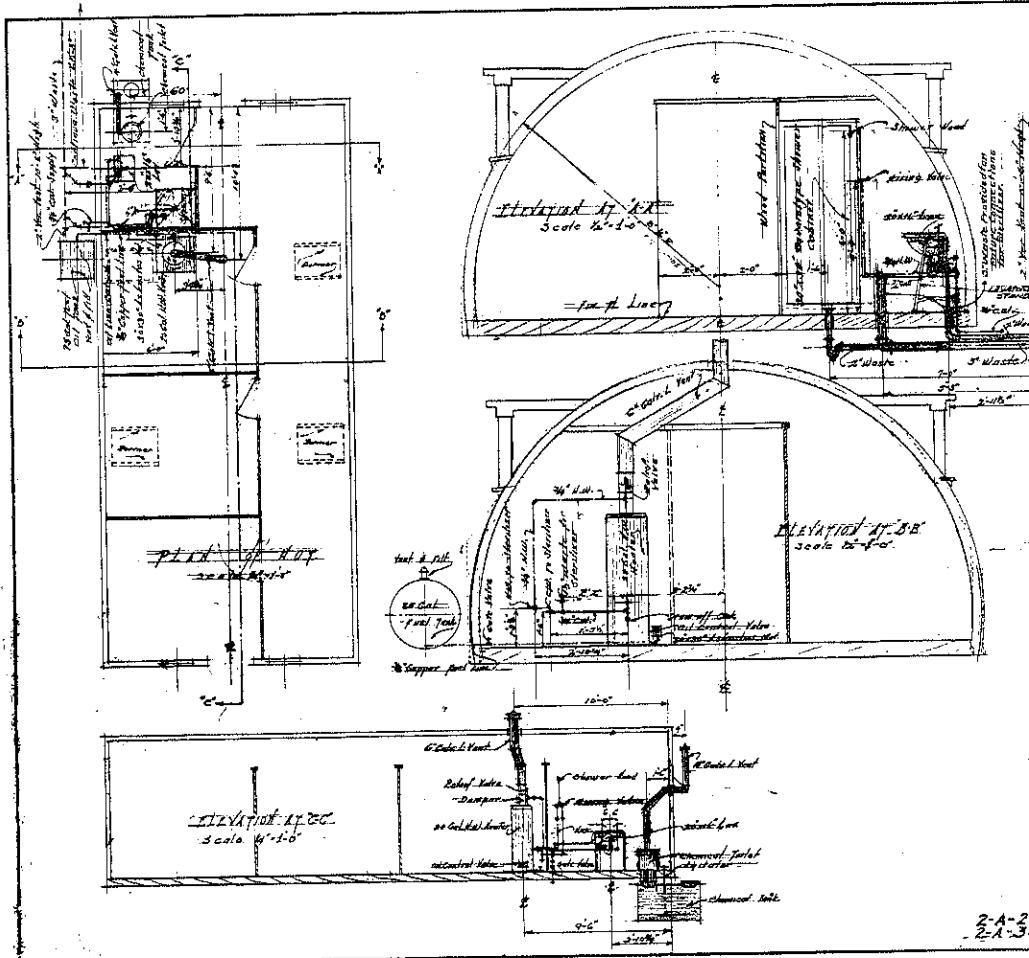


MATERIAL LIST FOR PARTITIONS PER HUT			
MARK	SIZE	NO. REQ	DESCRIPTION
I-A28-1-1	4'-0" x 6'-0" x 3"	4	STOCK ROD, PLYWOOD PARTITION WOOD PANEL
I-A28-1-2	2'-8" x 6'-0" x 3"	1	BOTTOM RAIL OF DOOR
I-A28-1-3	2'-4" x 14'-0"	1	DOOR STILLS
I-A28-1-4	2'-4" x 5'-0" x 3"	1	TOP RAIL OF DOOR
I-A28-1-5	2'-4" x 4'-0" x 3"	1	DOOR STOP
I-A28-1-6	2'-4" x 16'-0"	1	DEADBAND FOR DOOR PANEL
I-A28-1-7	2'-3" x 16'-0"	1	DOOR FRAME
I-A28-1-8	1'-4" x 3'-0" x 14'-0"	4	FRAME OF PARTITION PANEL
I-A28-1-9	1'-4" x 3'-0" x 12'-0"	2	" "
I-A28-1-10	3'-4" x 4'-8" x 8'-0"	1	" "
I-A28-1-11	2'-3" x 10'-8"	1	" COLLAR BEAM
I-A28-1-12	2'-3" x 8'-0"	1	" PLATE
I-A28-1-13	1'-0" x 2'-8" x 3'-0"	1	" ANGLE CLIP FASTENERS
I-A28-1-14	1'-0" x 2'-8" x 3'-0"	1	FLAT CLIP FASTENERS
I-A28-1-15	10'-0" x 1'-0" LONG	60	IRN SCREWS FOR CLIP FASTENING
I-A28-1-16	1'-0" x 2'-8" x 3'-0"	6	IRN SCREWS FOR DOOR FRAME FASTENING
I-A28-1-17	3/8" x 3'-0" LONG	4	IRN STOVE BOLTS & SQUARE NUTS
I-A28-1-18	4'-0" x 1'-0" x 3"-4"	4	NAILS FOR DOOR
I-A28-1-19	1'-0" x 2'-8" x 3'-0"	1	SMOOTH BOARD FOR DARTIT ON PANELS
I-A28-1-20	4'-0" x 4'-0" x 1'-0"	1 PR	BUTTS FOR DOOR
I-A28-1-21	4'-0" x 4'-0" x 1'-0"	1 SET	LOCK FOR DOOR
I-A28-1-22	4'-0" x 4'-0" x 1'-0"	1	DOORHED (See Drawing No QN-3-30)
I-AK-10		4	

NOTE:
I-A28
SURGICAL/MEDICAL HUT CONSISTS OF STANDARD HUT 16'-0" X 36'-0"
TO WHICH PARTITIONS & DOORHEAD ARE ADDED AS SHOWN ON THIS DRAWING.

4	11-28-44	10PM	OFFICERS BARRACKS ADDED TO TITLE I-A-28 UNLESS OTHERWISE SPECIFIED
3	11-28-44	10PM	ITEM 1-A-28-2-00-WARD ADDED & TITLE CHANGED
2	11-28-44	10PM	1932 DOOR CLIPS DIVIDED TO LUMPS & CUP HOLE SPACERS
1	11-28-44	10PM	PANEL K SUBSTITUTED FOR PANEL G IN LUMPS
Rev. No.	Date	By	Description of Revision
			Approved by
			Gordon A. Fuller Co. & Merritt-Collman & Scott Com.
			Accepted for Construction by
			NAVAL AIR STATION QUONSET POINT, R.I.
			TEMPORARY AVIATION FACILITIES
			DISPENSARY
			SURGICAL/MEDICAL HUT
			ENLISTED MEN I-A-28
			500-WARD 1-A-31 OFF BARRACKS
			Approved 11-17-1944
			By [Signature]
			Office in Charge of Construction
			Quonset Point Navy Dept. Assession No. 3046





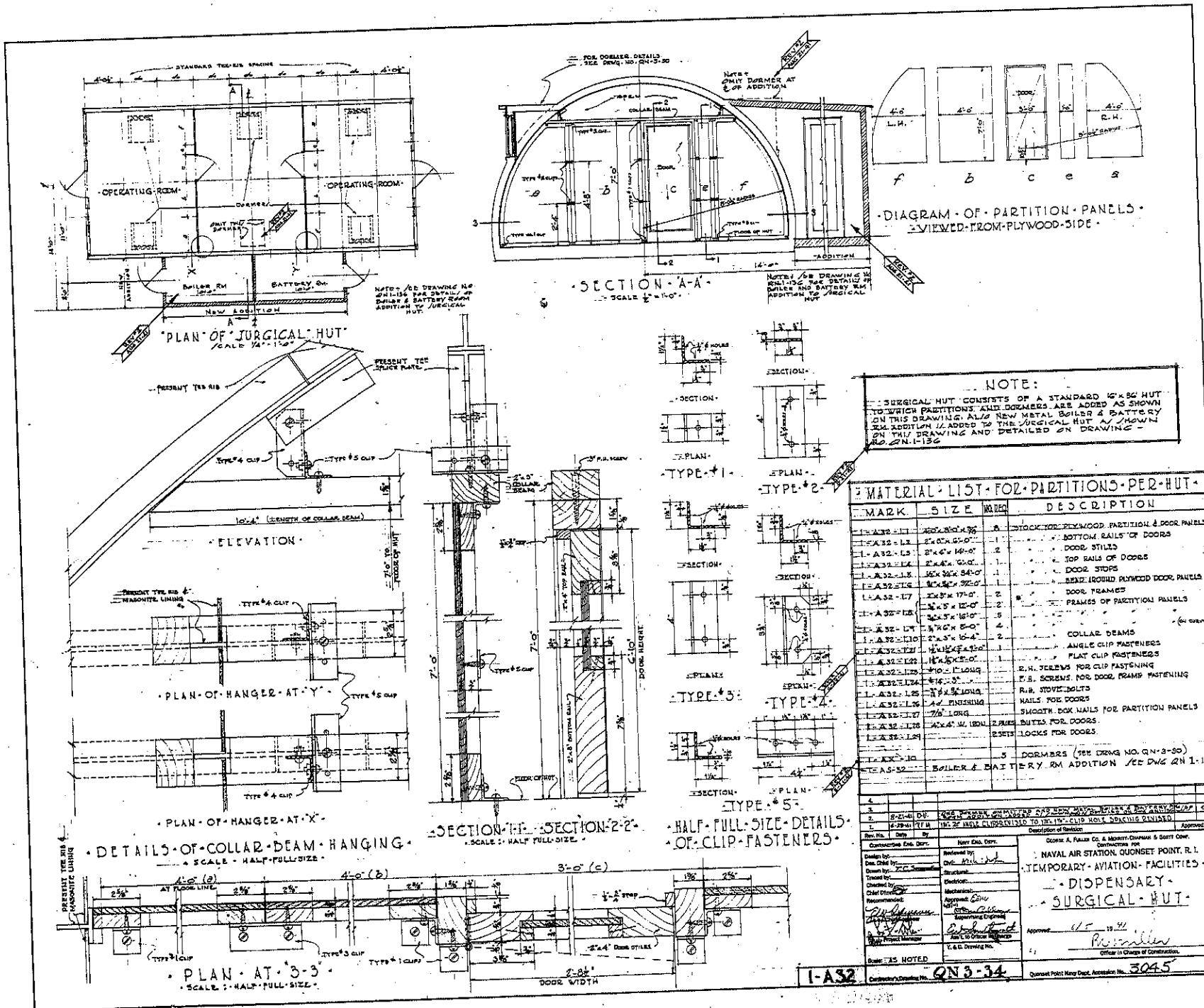
MATERIALS : L 15T

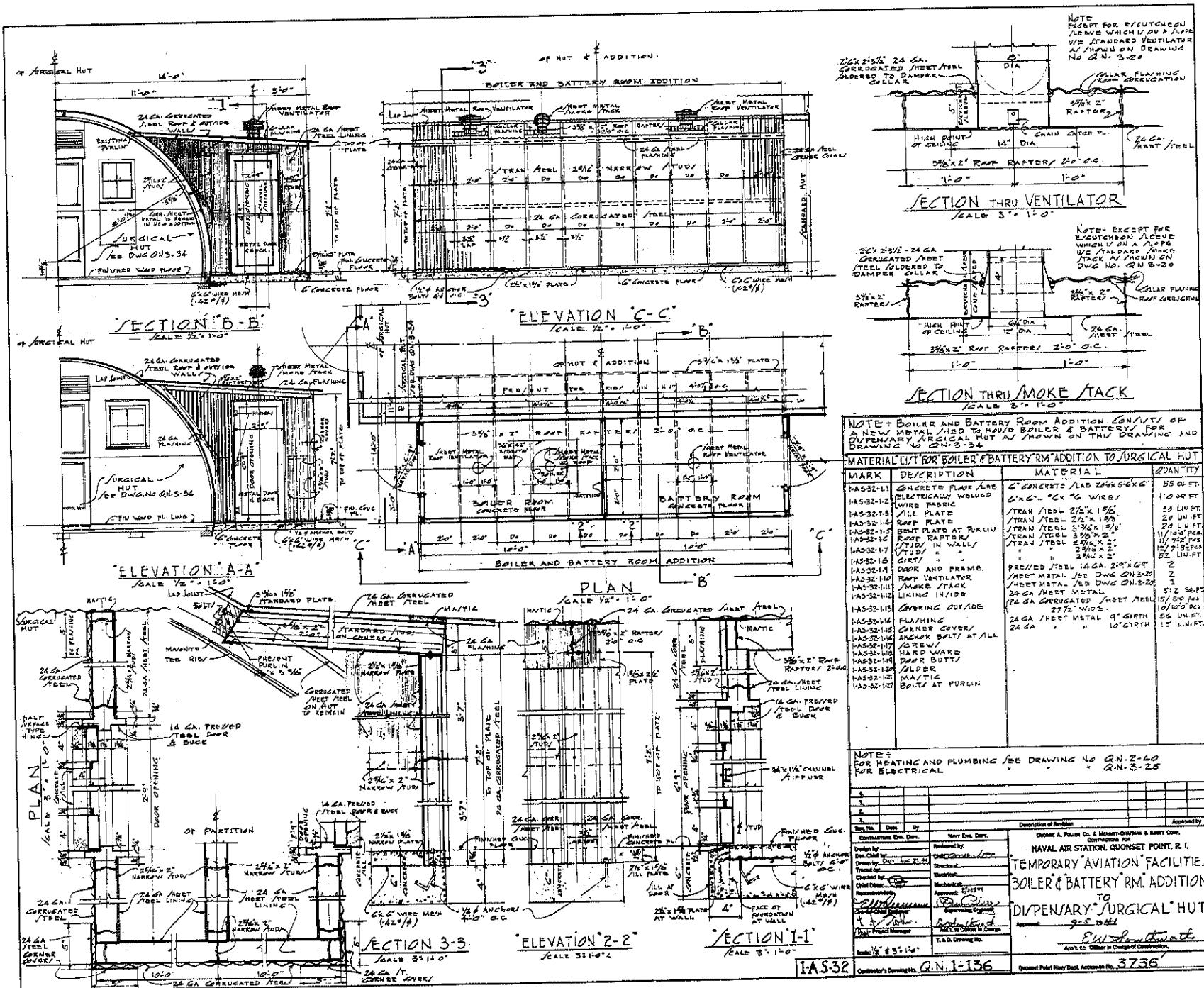
FIXTURES - TRIM & EQUIPMENT	
1- 20' x 16' Laundry	1-Chemical Totes & Seats
1-Lot " " Stand	1-Chemical Tank with 40 liter
1-Pair " " Tacos for D.E.C.W.	1-Paper Holders
1-16' x 16' " P.T.P."	1-8' Gal. L. Totes, stool & supports
1-Chair & Step	1-10' x 24" Long Backwash Shelf
1-Tall Fcaco & Plus	1-Cam. Seal Equip. Chemical (in solvent)

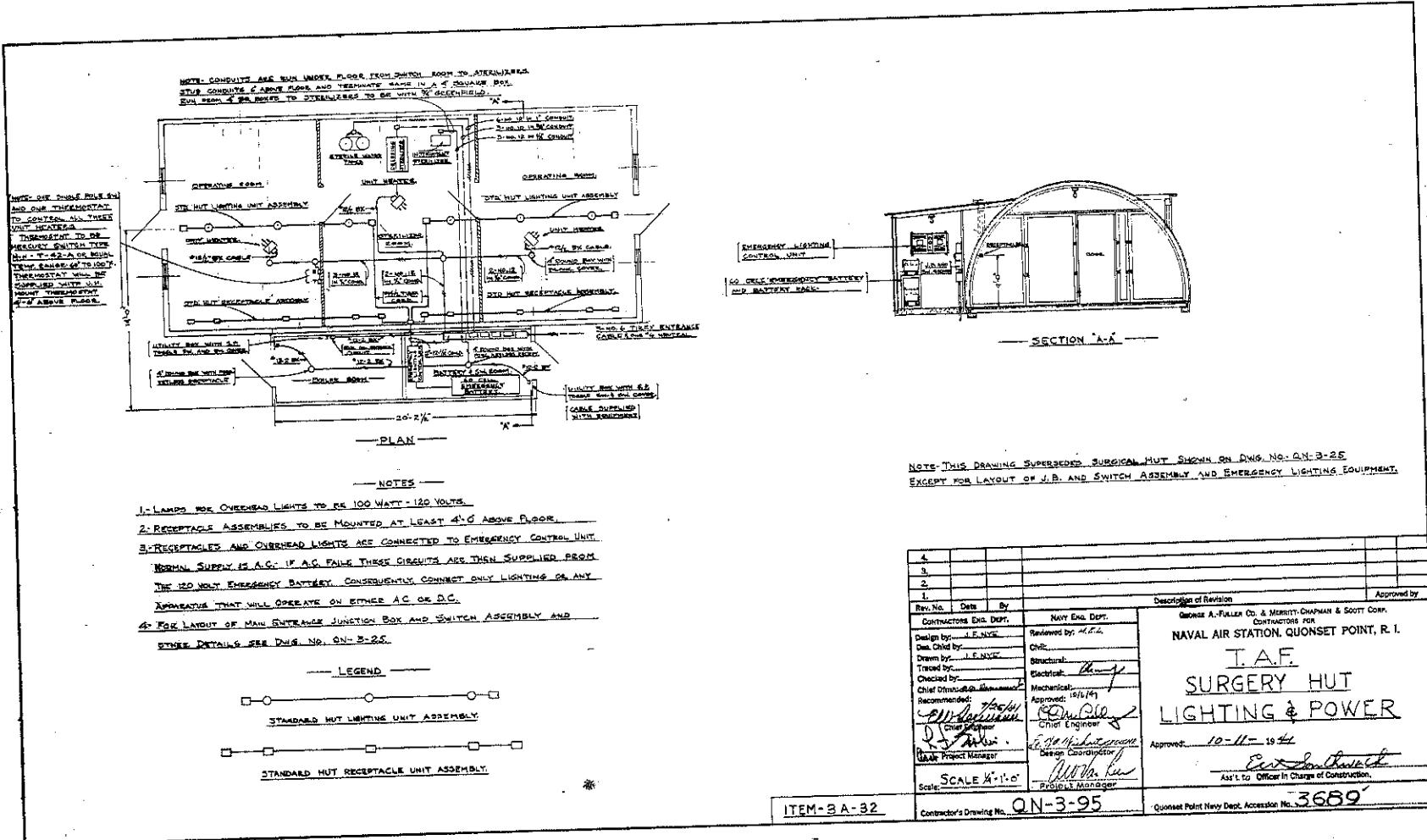
1-36'x36' Walkway Cabinet Shower (30-Gauge)
 1-36'x22' Cabinet, rod & hooks Complete
 1-Soup Dish
 1-Shower Take & Shower Head
 1-85 Gal. Fuel Oil Storage Tank
 1-Tank Head & Filter Cap

1-26 Gal. Hot Water Heater
 1-6 Gal. Central Vac
 1-Relief Valve 1" Sd & act
 1-5'x12' Walkway Plastic Depto.
 1-6'x6' Gal. L. Heater Tank & Support
 1-20'x30' Metal Covered Deck Box
 1-8'x8' Copper Pool Liner 15'pf. long
 1-Sink Base Gal. Valve
 1-4'x10' R.H. Hale 10'x10' House Extension

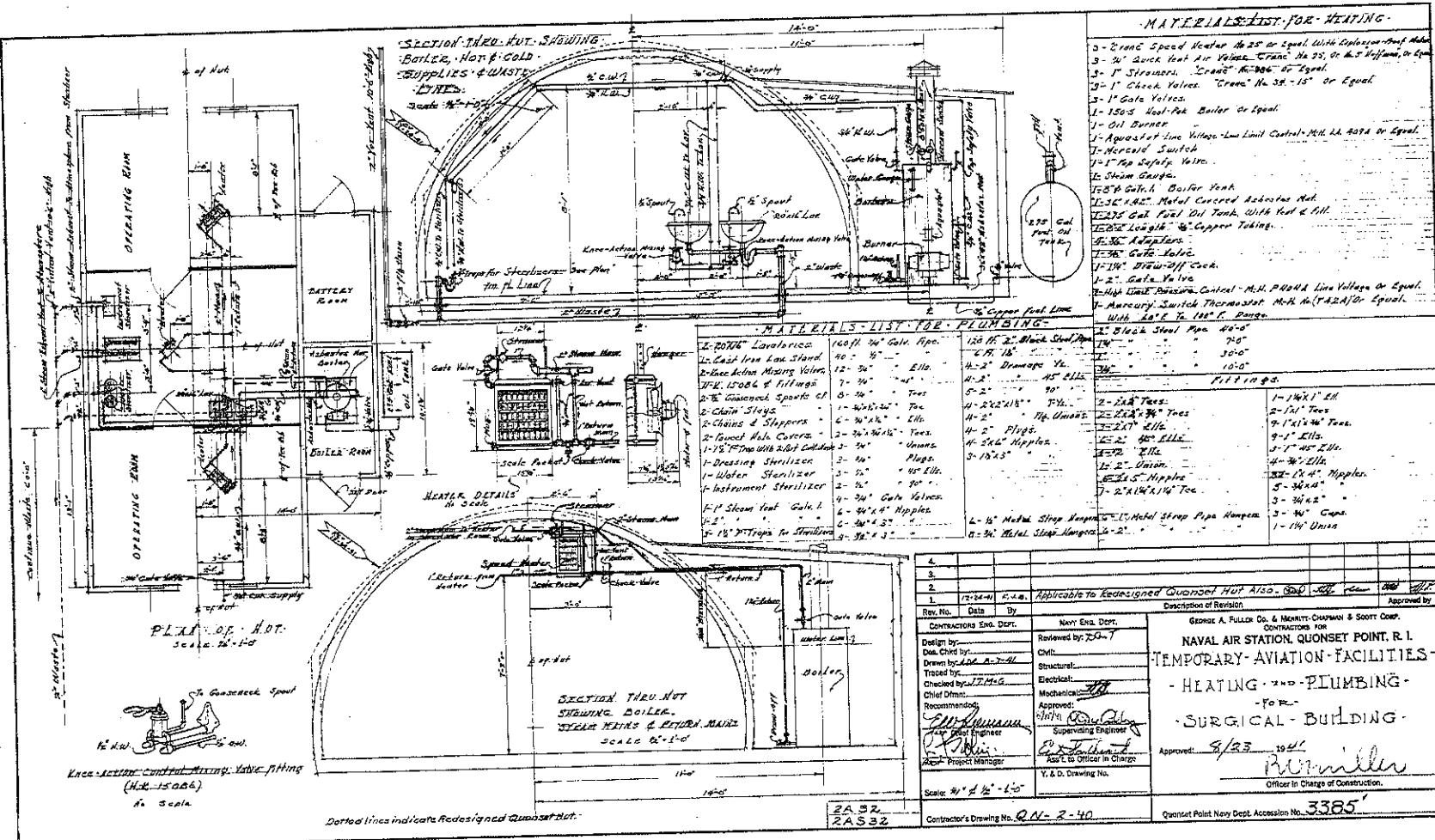
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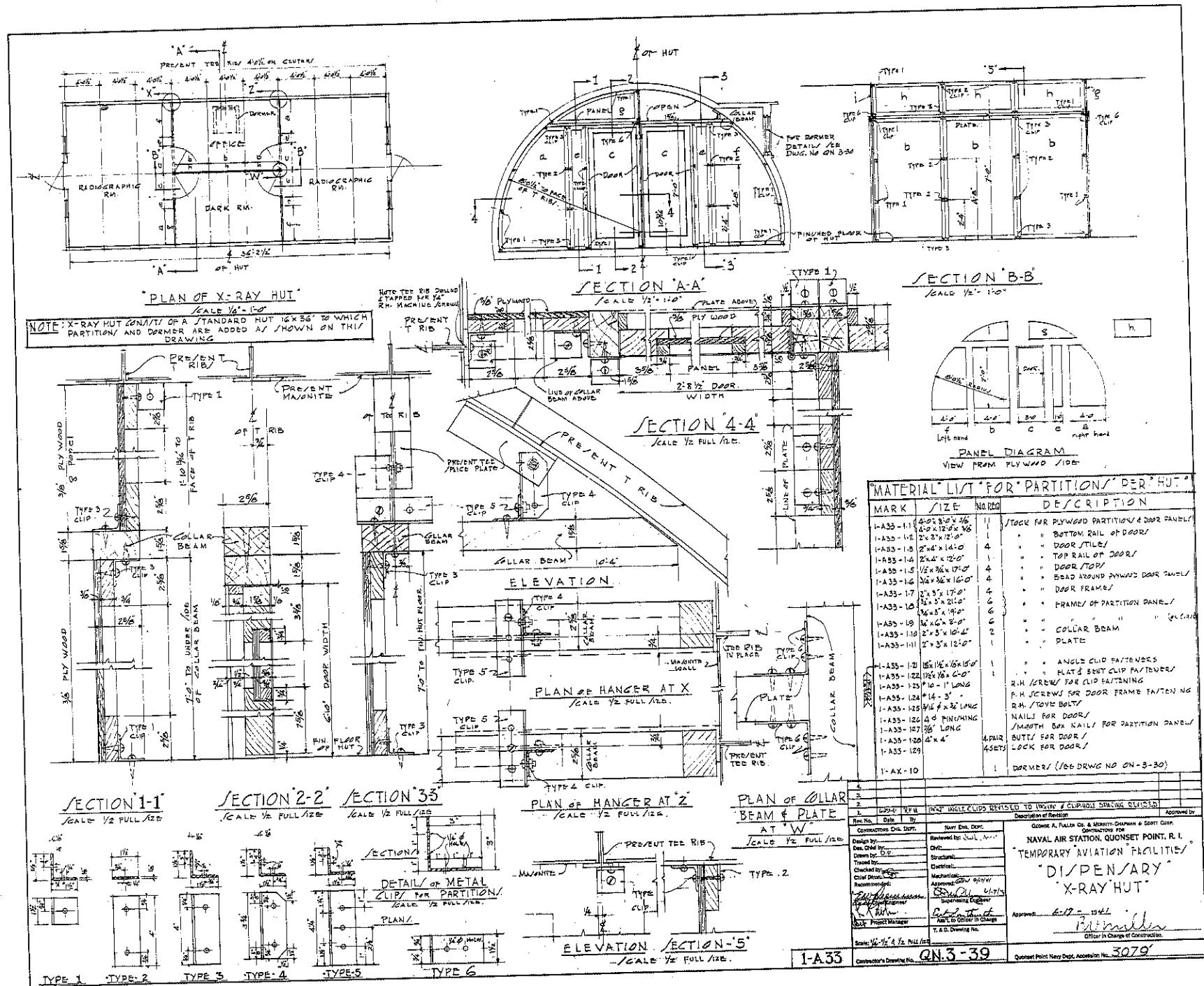


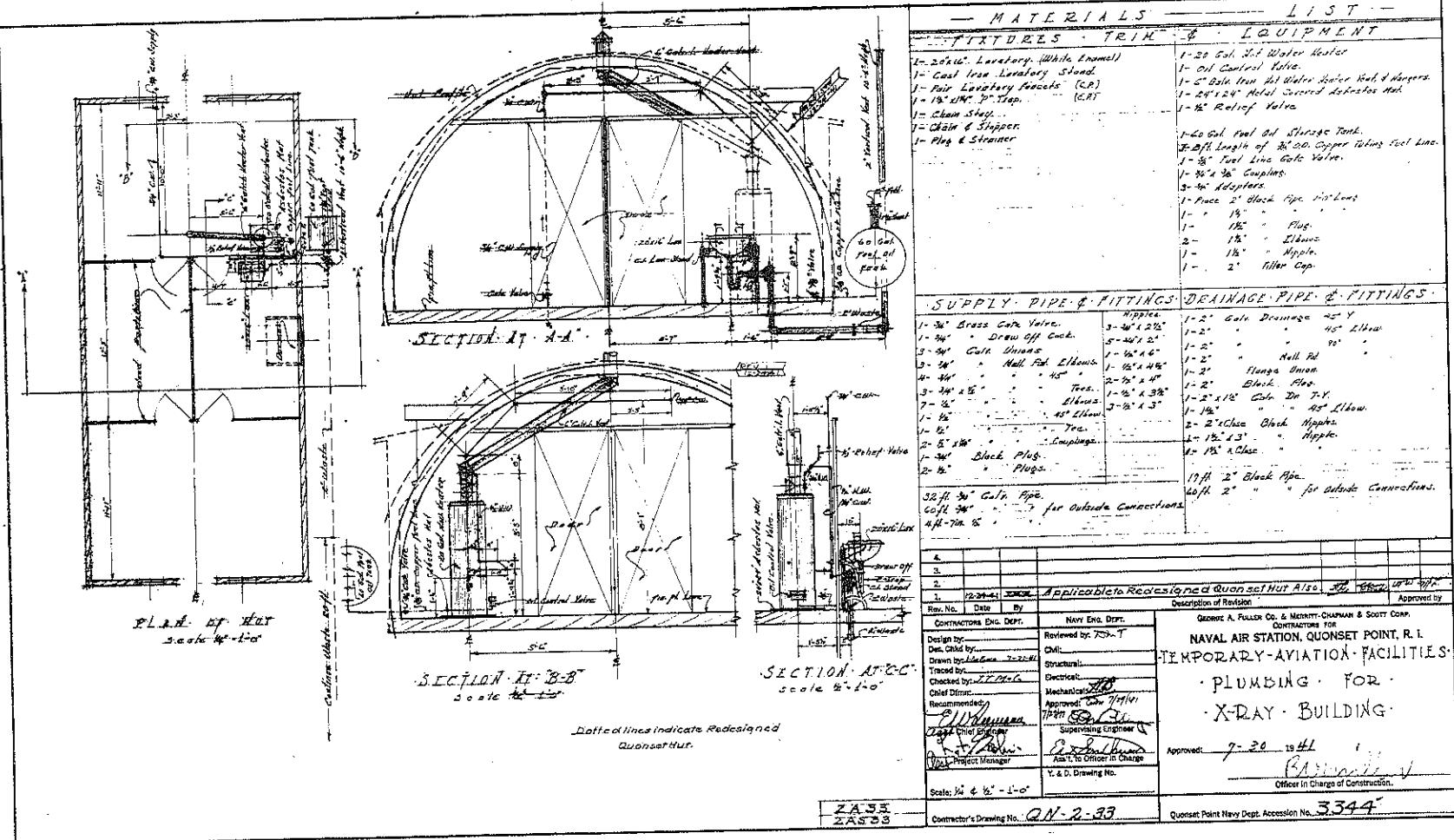




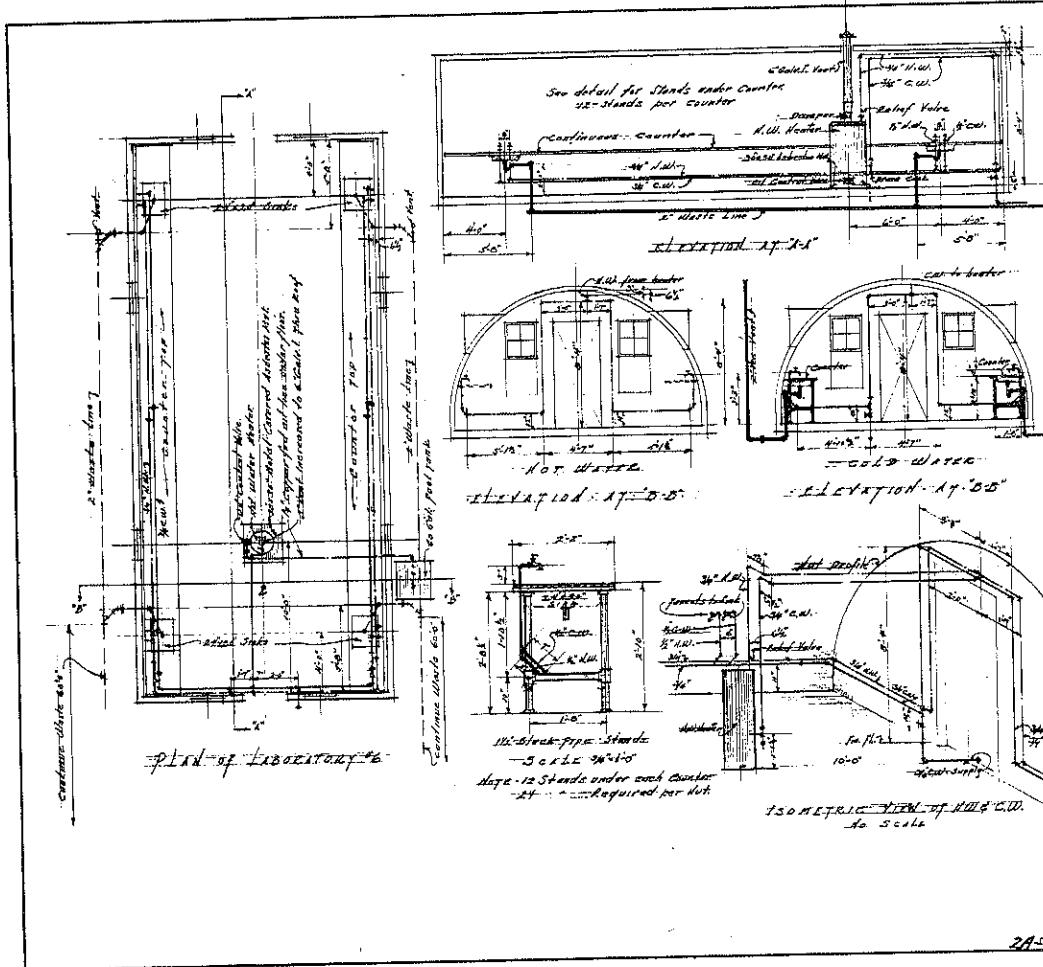
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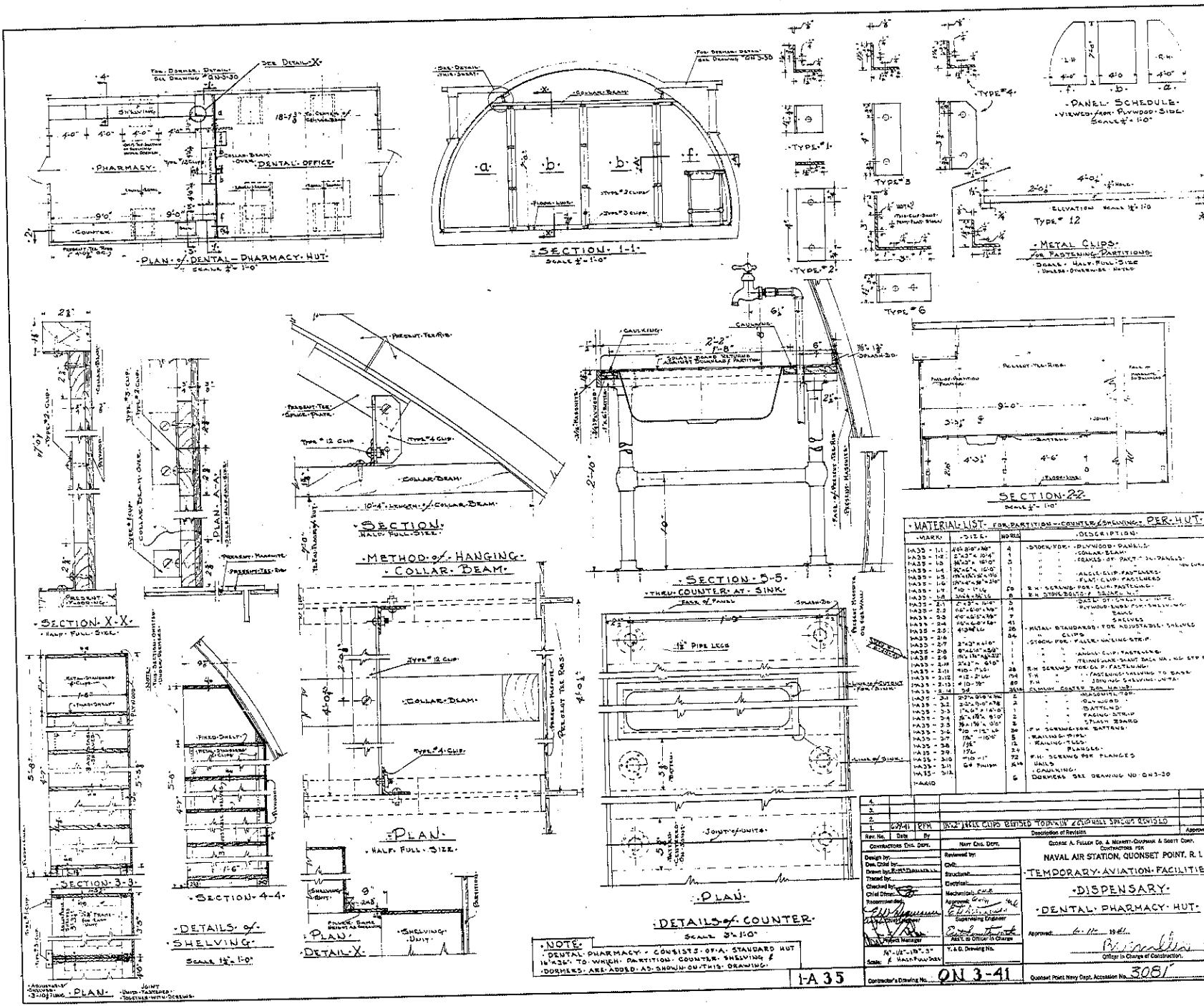


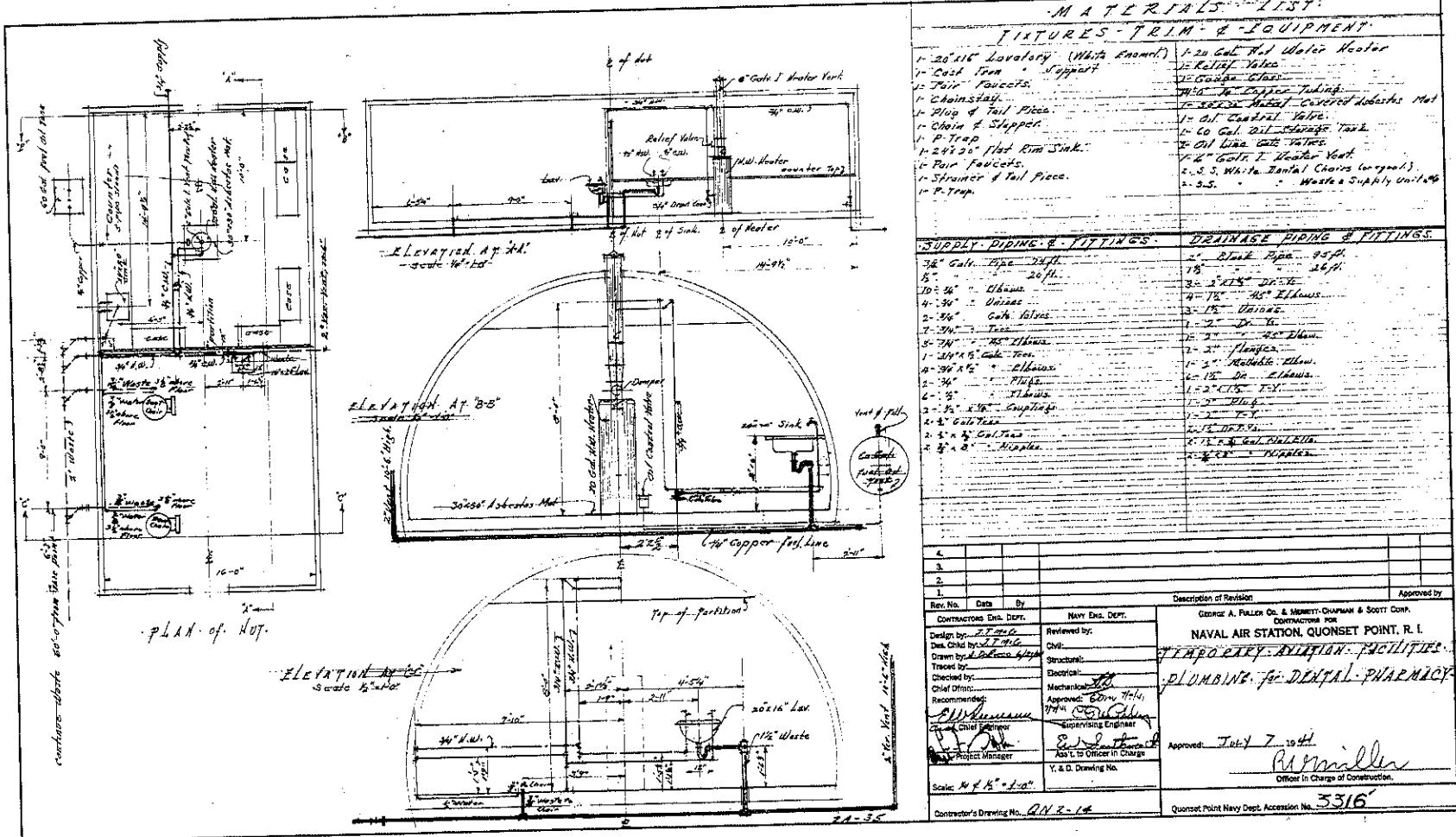


Q/N-2-33



870





MATERIALS - LIST:

FIXTURES - TRIM & EQUIPMENT:

- 1- 20"x16 Lavatory (White Enamel)
- 1- Cult. Marble Support
- 1- Relief Valve
- 1- Toilet Seats
- 1- George Glass
- 1- 30x16 Sink - Covered drainage Mat
- 1- 30x16 Sink - Covered drainage Mat
- 1- Oil Trap Valve
- 1- 30 Gal. 21" Storage Tank
- 1- Oil Line Gate Valve
- 1- 6" Cult. I. Heater Vessel
- 1- Pair faucets
- 1- S. S. White Santa Clara (Porcelain)
- 1- P. Trap
- 1- S.S. Waste & Supply coil 1/2"
- 1- S.S. Waste & Supply coil 1/2"

SUPPLY - PIPING & FITTINGS:

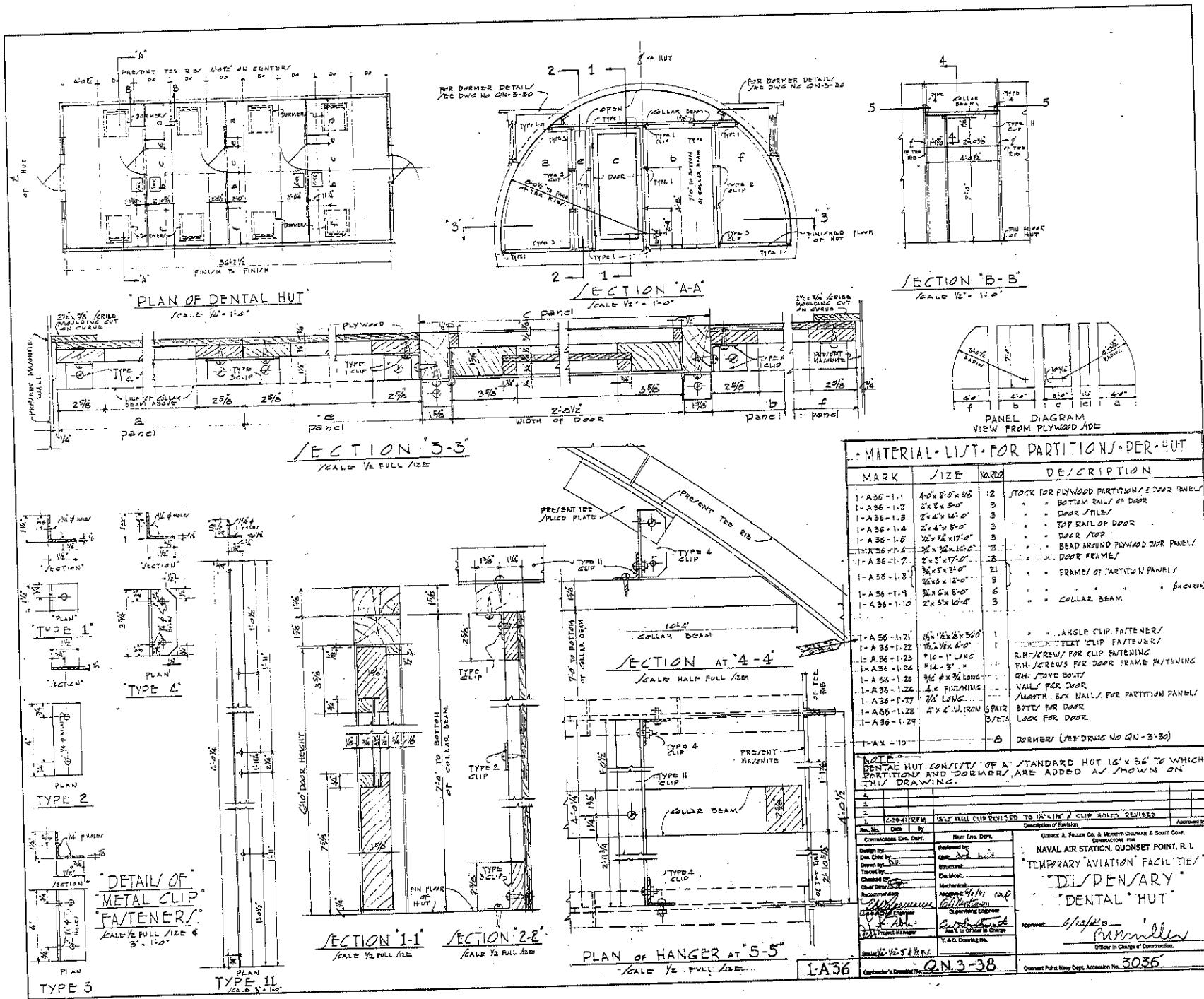
DRAINAGE PIPING & FITTINGS:

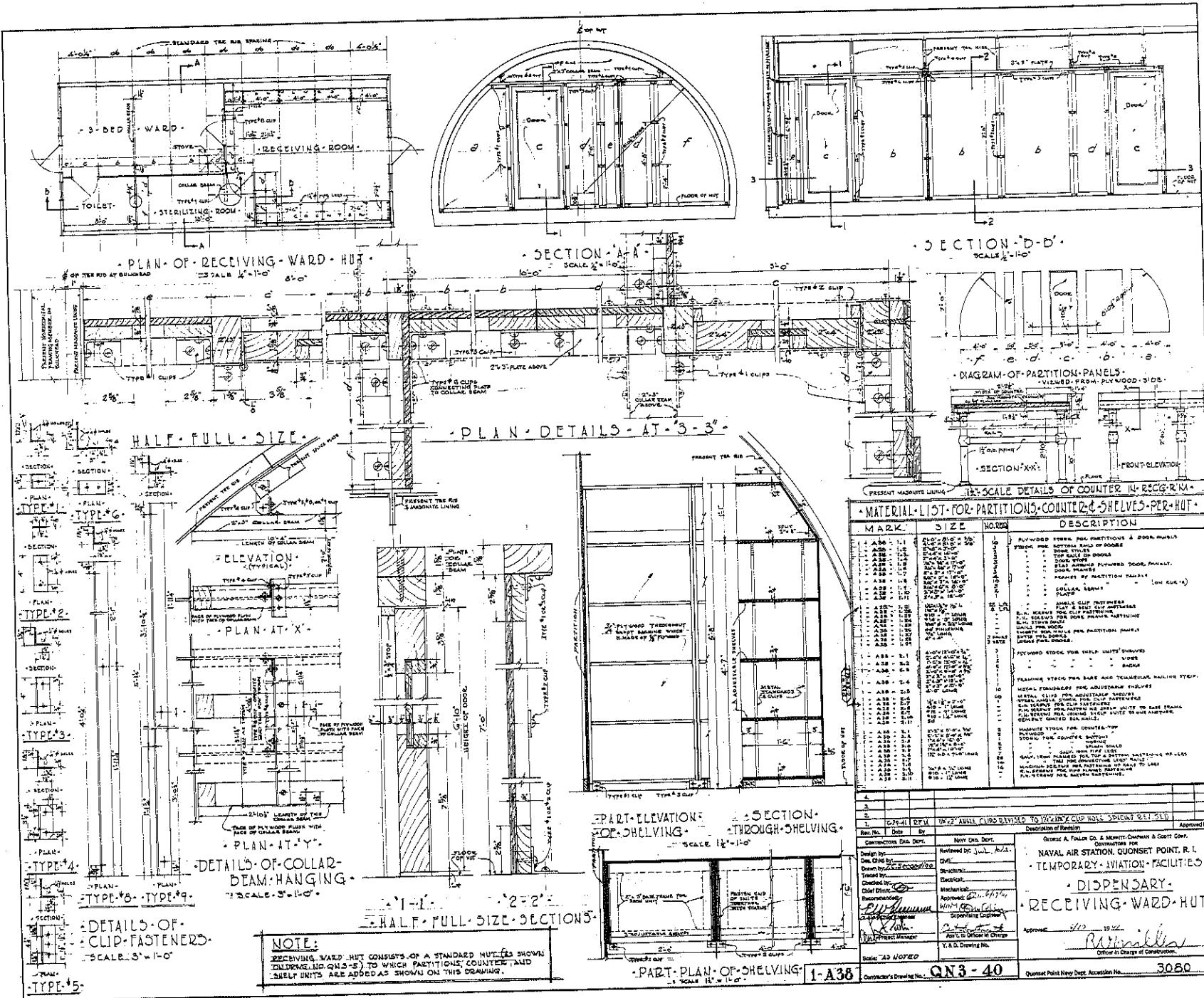
- | | |
|------------------------|-------------------------|
| 3/8" Cult. Pipe 25 ft. | 1" Steel Pipe 95 ft. |
| 5" " " 20 ft. | 1 1/2" " 26 ft. |
| 10- 3/8" Elbows | 3- 2 1/2" DR. 3/8" |
| 4- 3/8" U. Unions | 4- 1 1/2" " 3/8" Elbows |
| 2- 3/8" Cult. Fittings | 1- 1" U. Union |
| 7- 3/8" " Tees | 1- 1" " 3/8" Elbow |
| 5- 3/8" " H. Elbows | 2- 3/8" " 3/8" Elbow |
| 1- 10"x 6" Cult. Tee | 1- 3" Plugs |
| 9- 30 x 16" Elbows | 1- 3" Radiant elbow |
| 2- 30" " Flanges | 1- 1 1/2" DR. Elbow |
| 6- 1" " Elbows | 1- 2" 1 1/2" T.V. |
| 2- 1" " 3/8" Elbows | 1- 2" DR. Elbow |
| 2- 3/8" Cult. Fittings | 1- 2" T.V. |
| 2- 3/8" " Cult. Tee | 1- 2" DR. Tee |
| 5- 3/8" " Nipples | 1- 1 1/2" DR. Tee |
| | 2- 3/8" " Nipples |

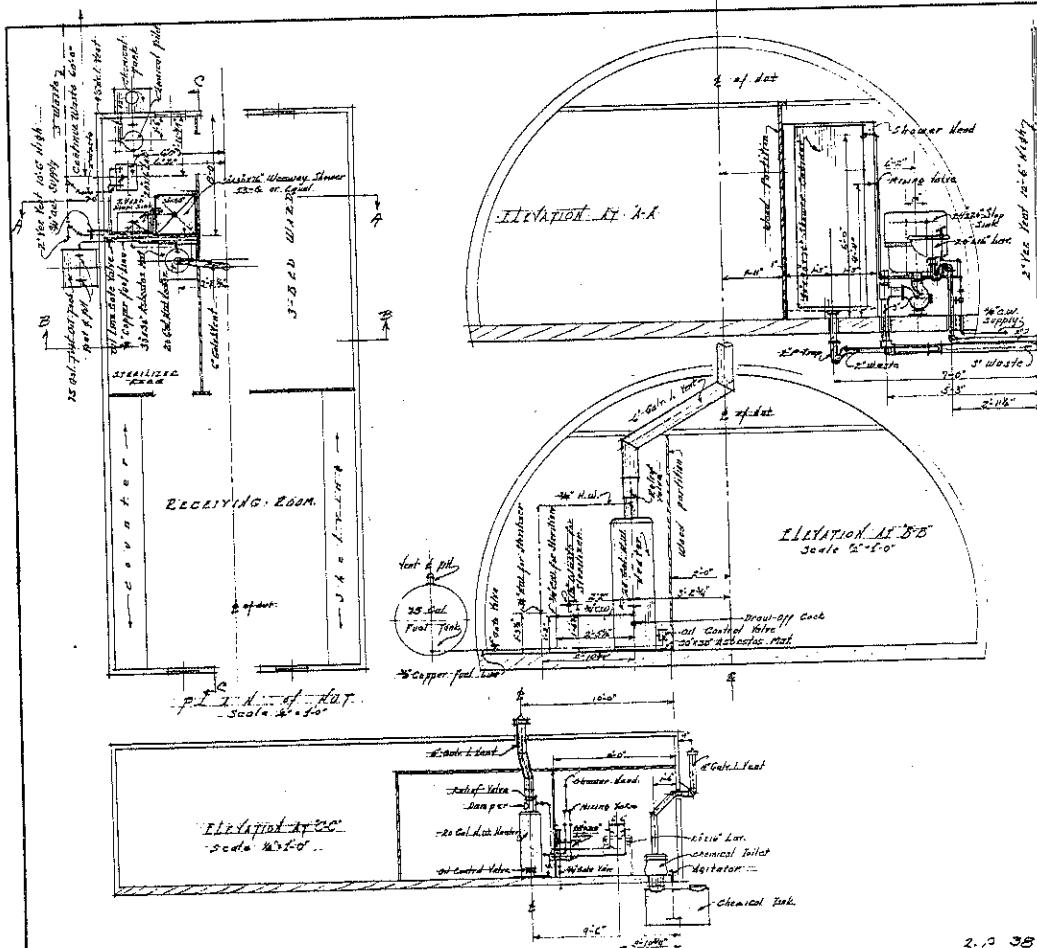
Rev. No.	Date	By	Description of Revision		Approved by
			Contractor's Eng. Dept.	Navy Eng. Dept.	
			Reviewed by:		GEORGE A. FULLER CO. & MORRITT-CHAPMAN & SCOTT CORP.
			Civil:		NAVAL AIR STATION, QUONSET POINT, R. I.
			Structural:		TEMPORARY AVIATION FACILITIES
			Electrical:		PLUMBING FOR DENTAL-PHARMACY
			Checked by:		
			Mechanical:		
			Approved:		
			Chief Draftsman:		
			Supervising Engineer:		
			Recommended:		
			Editor:		
			Ass't to Officer in Charge:		
			Y. & D. Drawing No.		
			Scale:		
			Contractor's Drawing No.		
			Quonset Point Navy Dept. Accession No.		

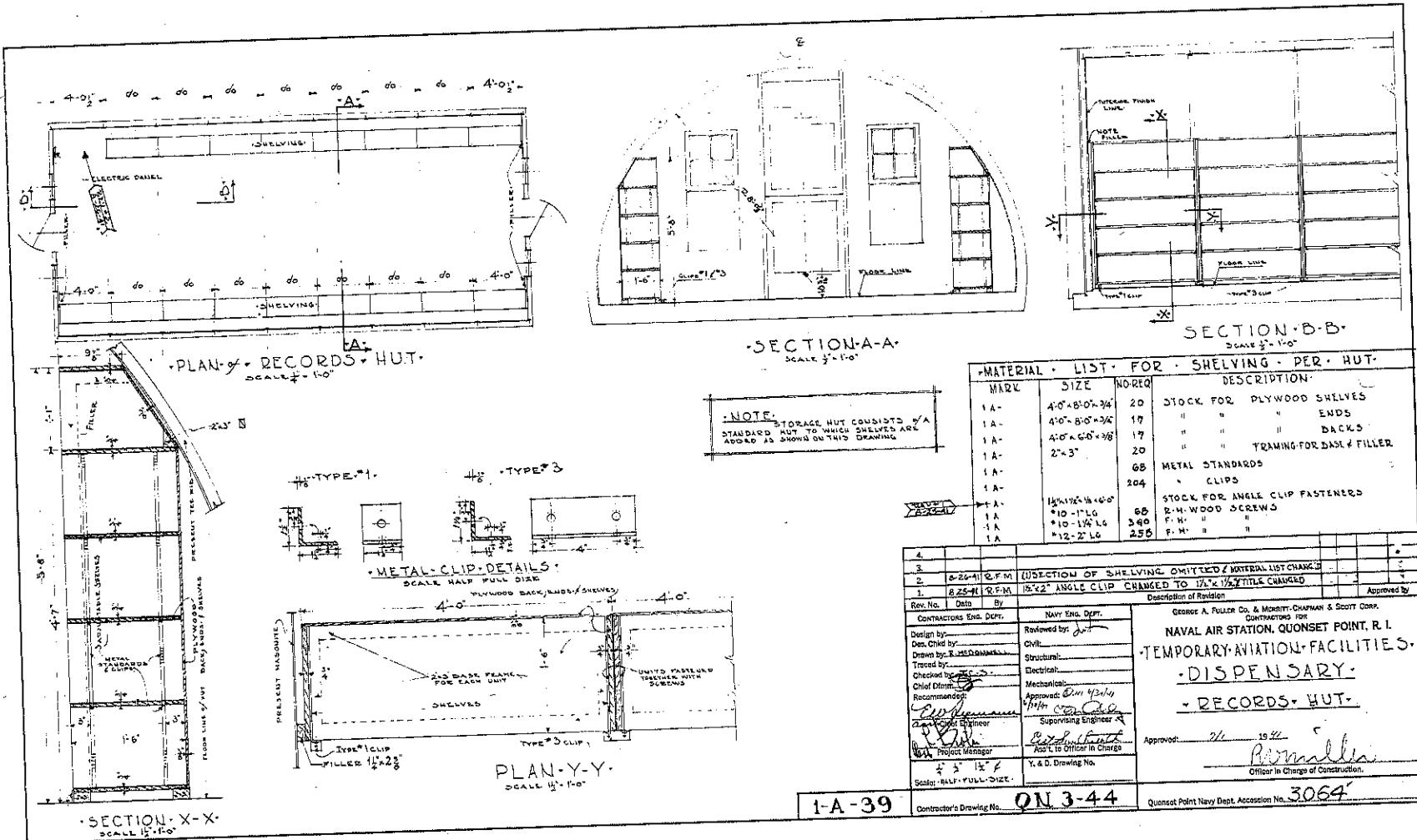
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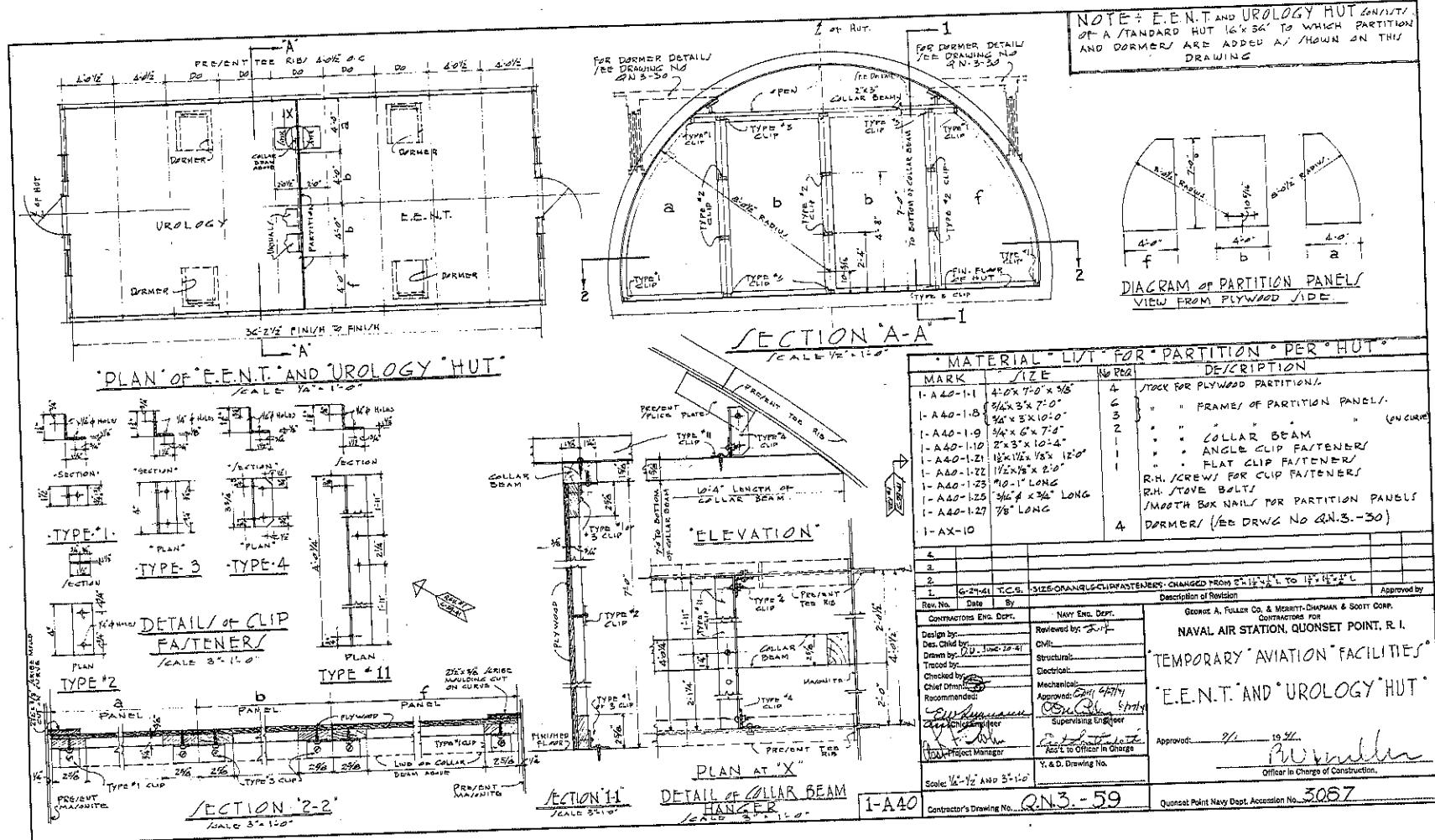


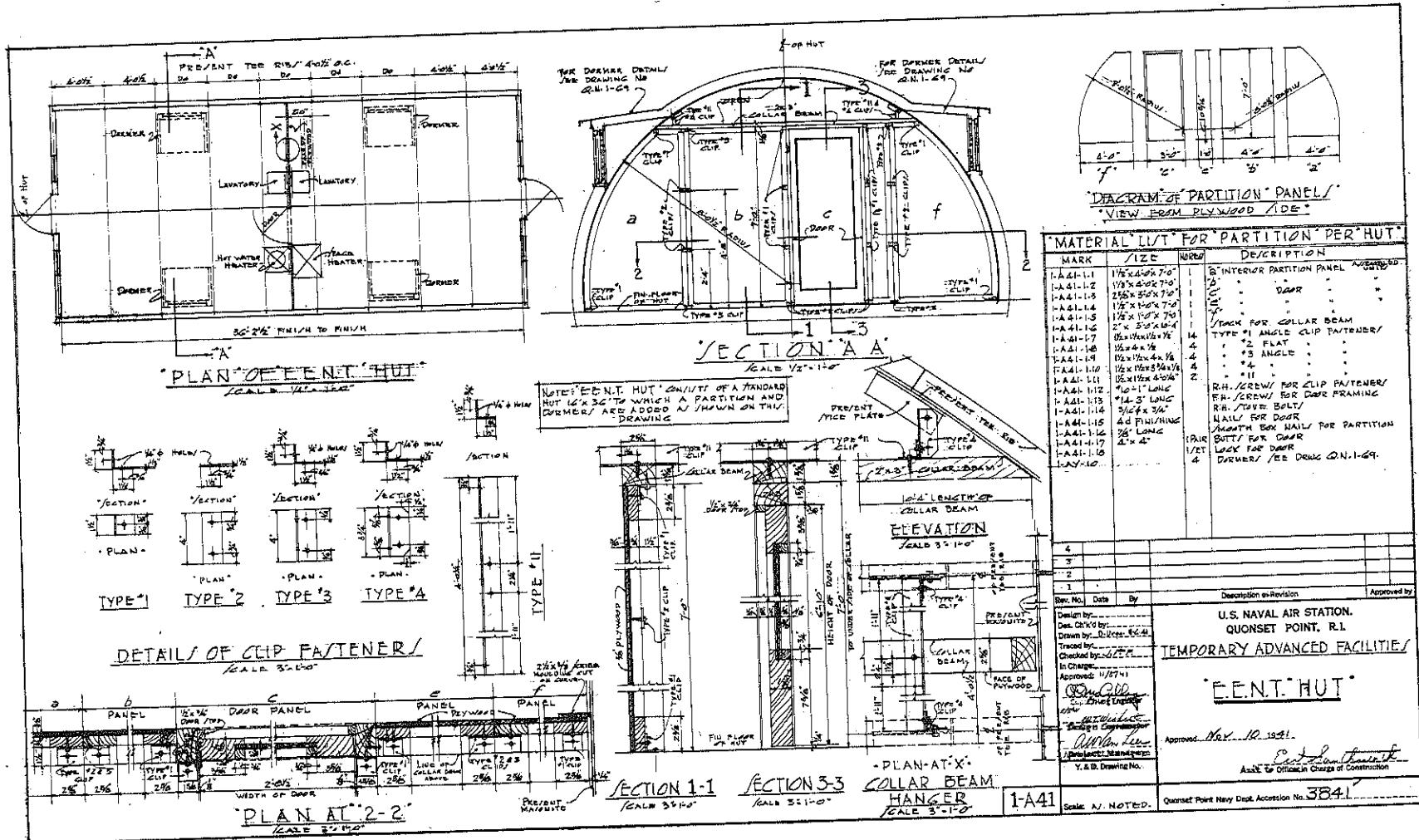


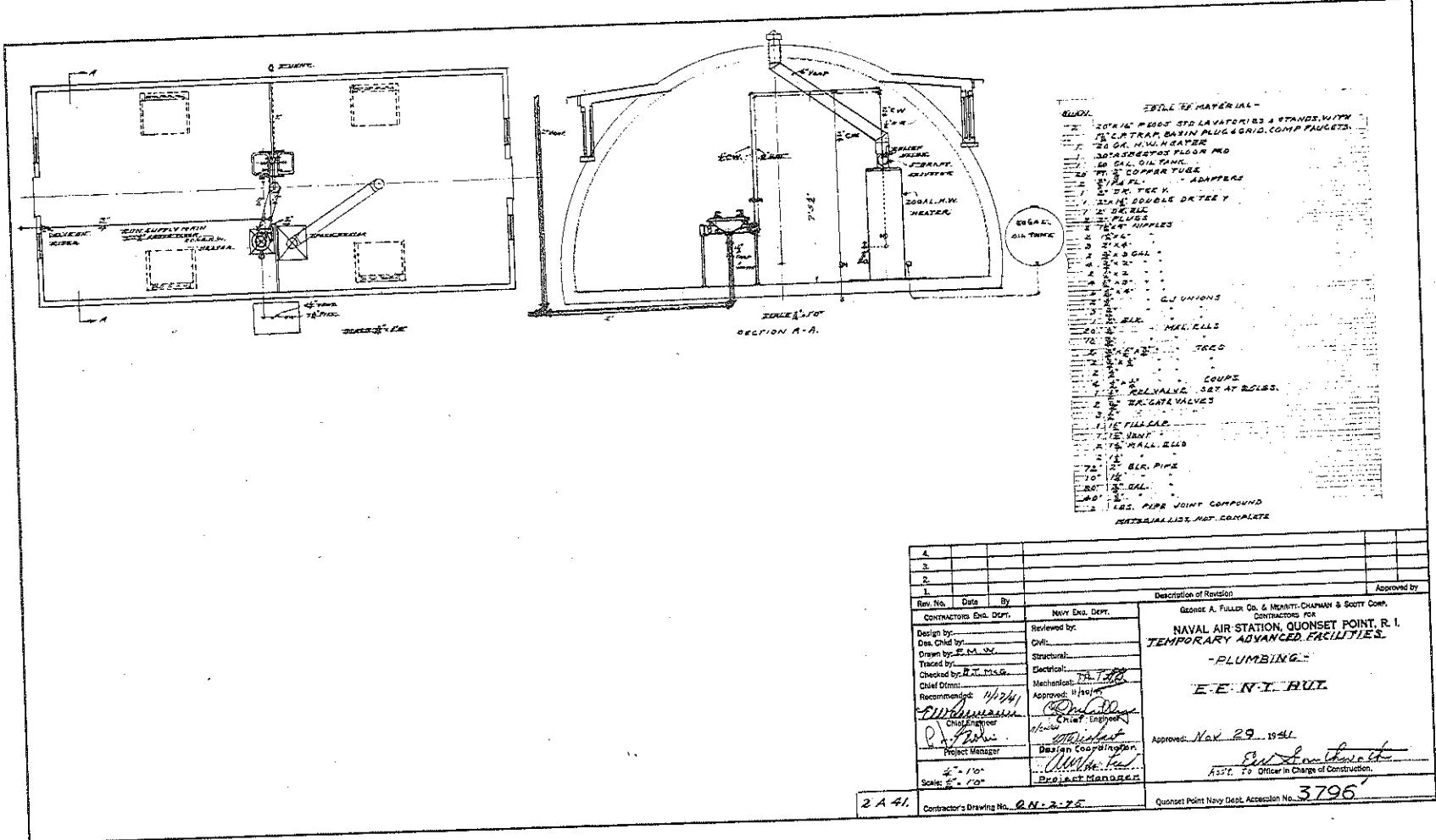




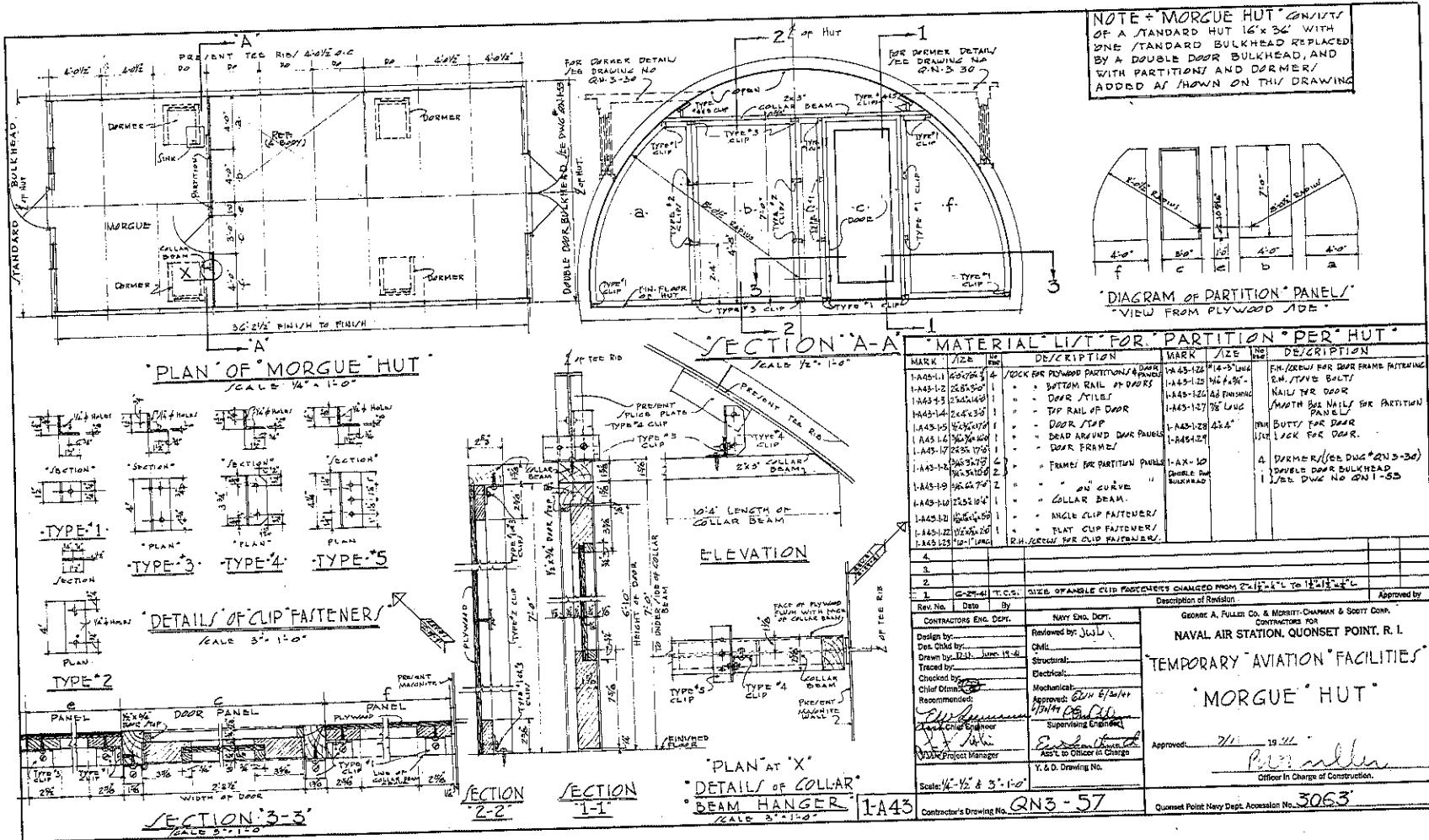
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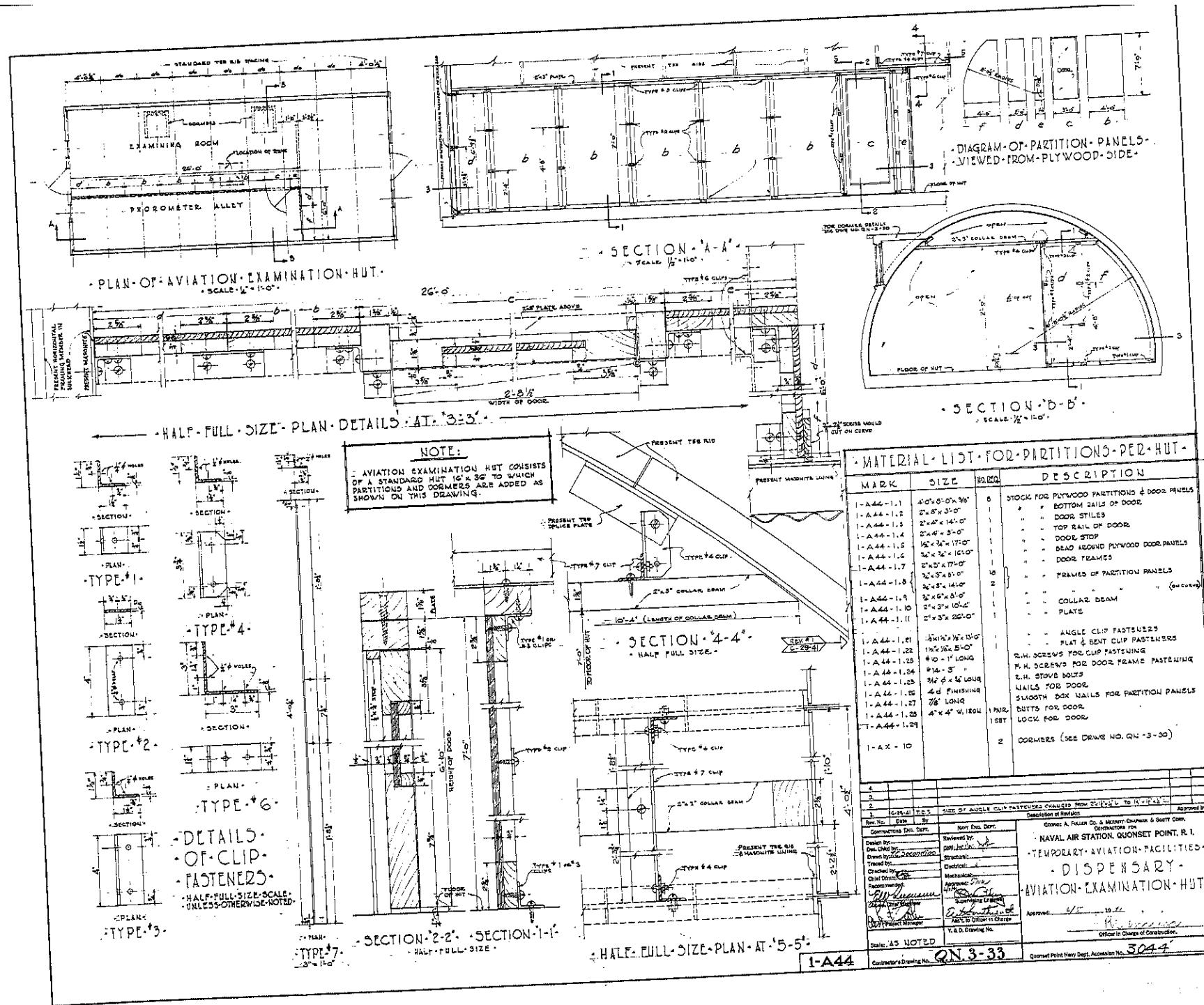


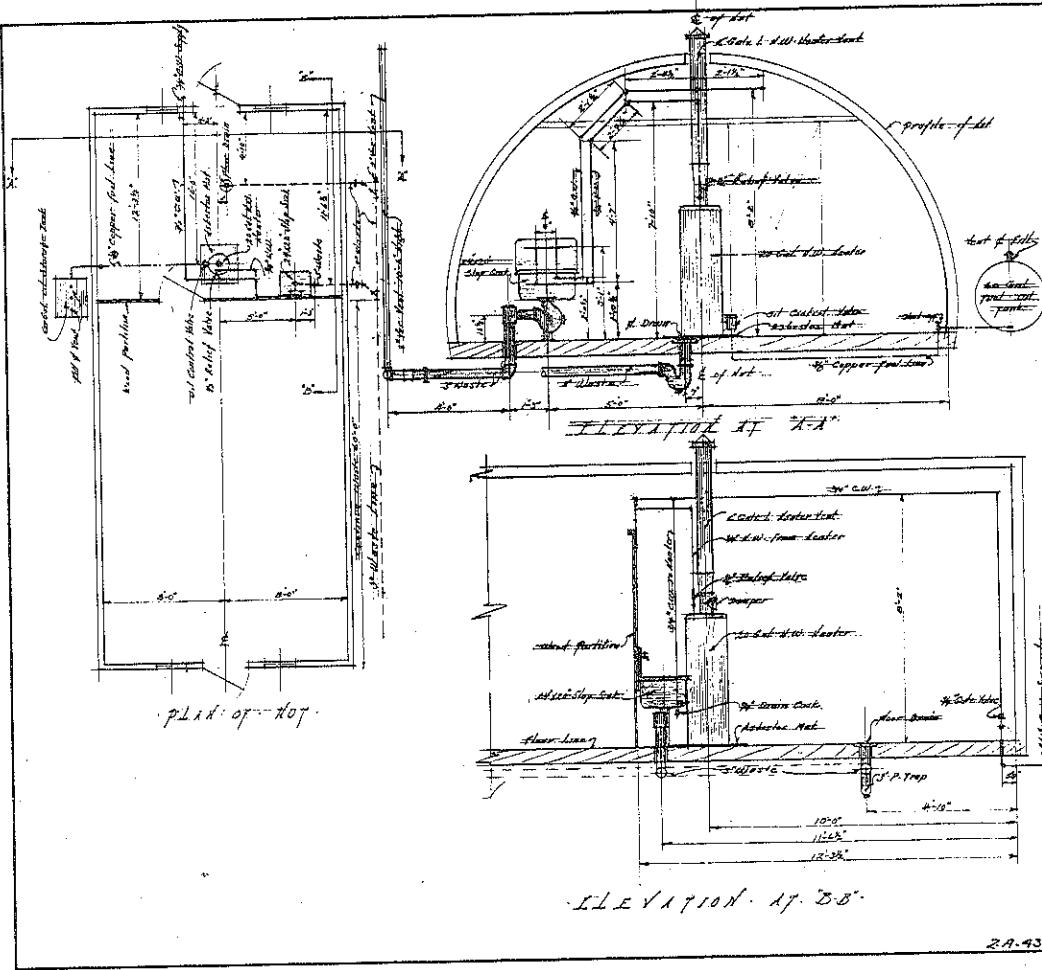




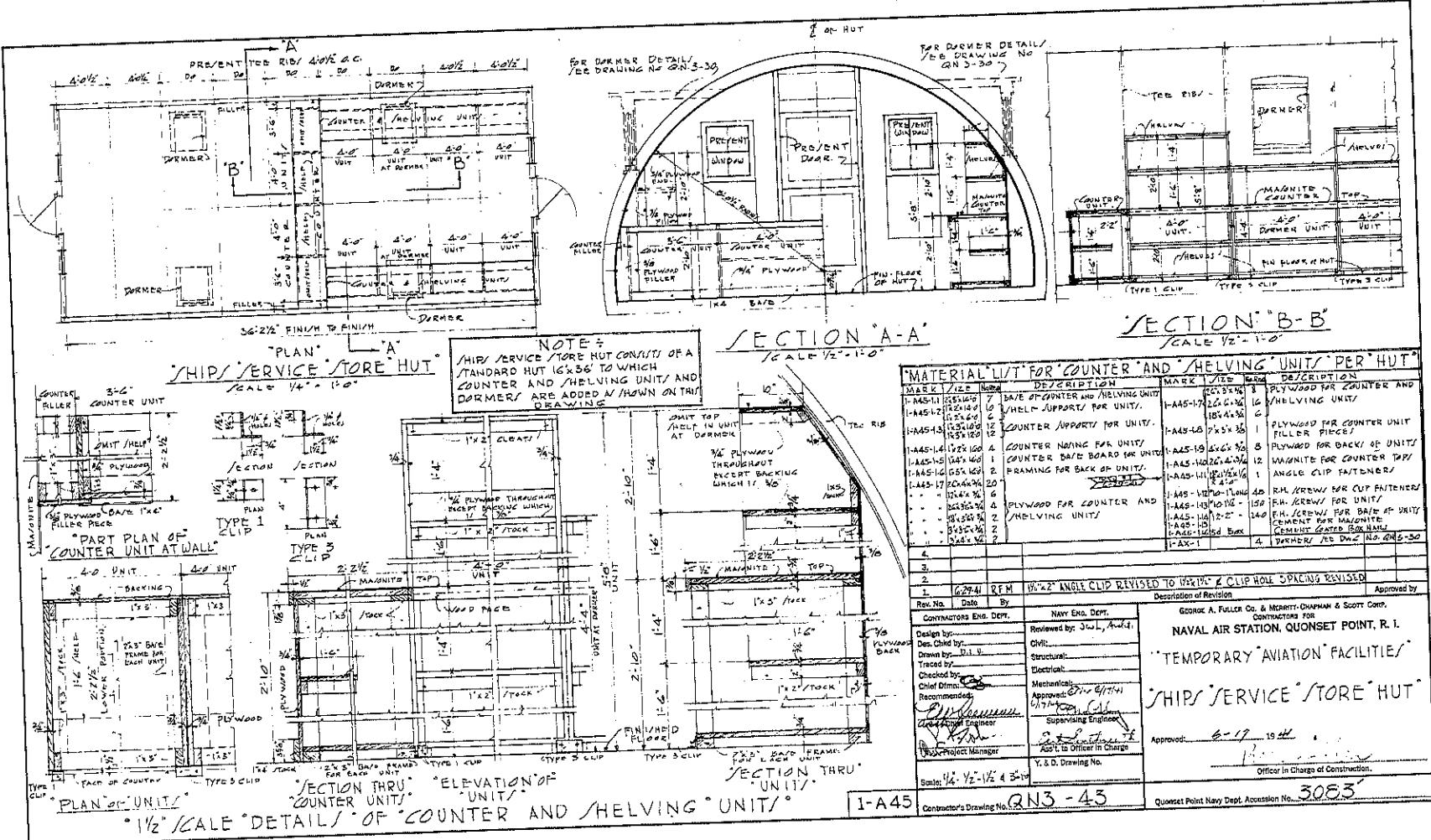
QW-2-15







MATERIALS LIST					
FIXTURES & EQUIPMENT					
I-2420 (White Enamel) Slip Sock.		1-26 Gal. Hot Water Heater.			
I-3 Slip Sock Trap Shadord.		2-16 Elk Metal Elbow			
I-3 Strainer		1-2" - " Metal Tee.			
I-4 Two Slip Sock Funnels		1- Copper Tubing Pipe 3/4" x 10' Long			
I-5		1- Lead Line Gate Valve Adapters & fittings			
I-6 Control Valve.		1- Off Control Valve.			
I-6 1/2 Gal. 1" Vent & Hangers for Hot Water.		1- Metal Covered Asbestos Nut			
I-7 Elk Plug		1-1/2" C. I. Elk Plug			
I-8 Elk Shut Off Valve		1-1/2" Elk Shut Off Valve			
I-9 Gal. Tank Storage Tank		1-10 Gal. Tank Storage Tank			
I-10 1/2" Elk Steel Flange		1-12 1/2" Elk Steel Flange			
I-11 1/2" Elk		1-12 1/2" Elk			
I-12 Relief Valve.		I-13 Relief Valve.			
SUPPLY PIPE & FITTINGS					
W. Galv Pipe 1150' Long		S. Black Pipe 80' x 6" Long			
1-10 Brass Gate Valve		2" - " 10' x 6" Long			
1-30 Brass Gate Valve		2-5/8" Black nipples			
1-30 Gate Valve		2-5/8"			
10'-30' 1" Nell Pth. Elbows		1-5/8" - " nipples			
> 10' - " " " "		1-5/8" Galv. Dr. T-Y			
45-90' 1" " " " "		2-3" - " 45° Y			
45-90' 1" " " " "		2-3" - " 45° Elbows			
10'-30' 1" " " " "		1-5" - " Elbow			
2-30' Black - Plugs		2-3" - " Plugged Units			
1-30' Galv. Nipples		1-3" - " Flex. Drain			
1-10" Black Plug		1-3" Galv. F. Trap			
1-30' Black Plug		1-3" Black Plug			
1-30' Black Plug		1-3/2" Bushings			
1-30' Black Plug		2-2" Metal Pth. Elbows			
1-30' Black Plug		3-1/4" Black Plug			
DRAINAGE PIPE & FITTINGS					
S. Black Pipe 80' x 6" Long		S. Black Pipe 80' x 6" Long			
10' x 6" Long		10' x 6" Long			
2-5/8" Black nipples		2-5/8" Black nipples			
2-5/8"		2-5/8"			
1-5/8" nipples		1-5/8" nipples			
1-5/8" Galv. Dr. T-Y		1-5/8" Galv. Dr. T-Y			
2-3" 45° Y		2-3" 45° Y			
2-3" 45° Elbows		2-3" 45° Elbows			
1-5" Elbow		1-5" Elbow			
2-3" Plugged Units		2-3" Plugged Units			
1-3" Flex. Drain		1-3" Flex. Drain			
1-3" Galv. F. Trap		1-3" Galv. F. Trap			
1-3" Black Plug		1-3" Black Plug			
1-3/2" Bushings		1-3/2" Bushings			
2-2" Metal Pth. Elbows		2-2" Metal Pth. Elbows			
3-1/4" Black Plug		3-1/4" Black Plug			
4					
3					
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1					
Rev. No.		Date			
By		Description of Revision			
Contractors Eng. Dept.					
NAVE ENG. DPT.		Reviewed by: <u>J. M. F.</u>			
Design by: <u>J. M. F.</u>		CIVIL:			
Des. Chkd by: <u>J. M. F.</u>		Structural:			
Drawn by: <u>J. M. F.</u>		Electrical:			
Checked by: <u>J. M. F.</u>		Mechanical: <u>J. M. F.</u>			
Chief Engr: <u>J. M. F.</u>		Approved: <u>6/20/46</u>			
Recommended: <u>J. M. F.</u>		TOMI KODA, C.E.			
Supervising Engineer: <u>J. M. F.</u>		Superior Engineer: <u>J. M. F.</u>			
Asst. to Officer in Charge: <u>J. M. F.</u>		Y. & D. Drawing No.			
Total Project Manager: <u>J. M. F.</u>					
Scale: 1/4" = 1'-0"					
Approved: <u>7-30</u> 1946					
G. W. Miller					
Officer in Charge of Construction					
Contractor Name: <u>GEORGE A. FULLER CO. & MORNITZ-CHAPMAN & SCOTT CORP.</u>					
CONTRACTORS FOR					
NAVAL AIR STATION, QUONSET POINT, R. I.					
TEMPORARY AVIATION FACILITIES					
PLUMBING TOR.					
M O R G U E					
G. W. Miller					
Officer in Charge of Construction					
Contractor Name: <u>3343</u>					



Q N 3 -43

**PLAN OF TEMPORARY LAUNDRY HUT
FOR CONSTRUCTION FORCE**

SCALE 1/4" = 1'-0"

ELEVATION

SECTION

DETAIL OF TABLE

SCALE 1/2" = 1'-0"

NOTE: TWO LIKE THIS

SECTION "A-A"

SCALE 1/2" = 1'-0"

ELEVATION

SECTION

DETAIL OF BIN

SCALE 1"-1/2"

NOTE: TWO LIKE THIS

PLAN

SECTION "B-B"

SCALE 1/2" = 1'-0"

MATERIAL LIST FOR BIN AND TABLE PER HUT

MARK	SIZE	DESCRIPTION
T.L.H. 1-1	24" X 60" X 3/4"	VIZ FOR MAJ/NIKE TABLE TOP
T.L.H. 1-2	24" X 60" X 3/4"	" PLYWOOD TABLE TOP
T.L.H. 1-3	48" X 60" X 3/4"	FACE OF TABLE TOP
T.L.H. 1-4	1/2" O.D. PIPE	PIPE SUPPORT FOR TABLE
T.L.H. 1-5	1/2" O.D. PIPE TEE	TABLE TOP CLEAT
T.L.H. 1-6	1/2" O.D. PIPE FLANGES	PIPE SUPPORTS FOR TABLE
T.L.H. 1-7	1/2" O.D. PIPE	PIPE SUPPORTS FOR TABLE
T.L.H. 1-8	1/4" LONG	FLANGE FOR PIPE SUPPORTS
T.L.H. 1-9	1/4" LONG	RH. SCREWS FOR FLANGE
T.L.H. 1-10	1/2" X 13/16"	FH. SCREWS FOR CLEAT
T.L.H. 1-11	24" X 50" X 3/4"	STOCK FOR BIN CLEAT
T.L.H. 1-12	24" X 50" X 3/4"	STOCK FOR BIN CLEAT
T.L.H. 1-AX1	24" X 60" X 3/4"	VIZ FOR FACE OF TABLE TOP
		DORMER FOR DRAWING NO Q.N. 5-30

Contractor's Drawing No. Q.N.3 - 45 **Quonset Point Navy Dept. Accession No.** 3085

Description of Revision

Approved by: George A. Fuller Co. & Merritt-Chapman & Scott Corp.

Contractors for NAVAL AIR STATION, QUONSET POINT, R.I.

Design by: Reviewed by: J.W.L., Architect

Des. Chkd by: Drawn by: D.U.

Structural: Checked by:

Electrical: Chief Engin.: Recommended: G. L. Johnson, Supervising Engineer

Mechanical: Approved: G. L. Johnson, Engin.

Plumb. Chkd by: G. L. Johnson, Engin.

Elect. Chkd by: G. L. Johnson, Engin.

Struct. Chkd by: G. L. Johnson, Engin.

Plumb. Project Manager: G. L. Johnson, Engin.

Elect. Project Manager: G. L. Johnson, Engin.

Scale: 1/4" = 1'-0" & 1/2"

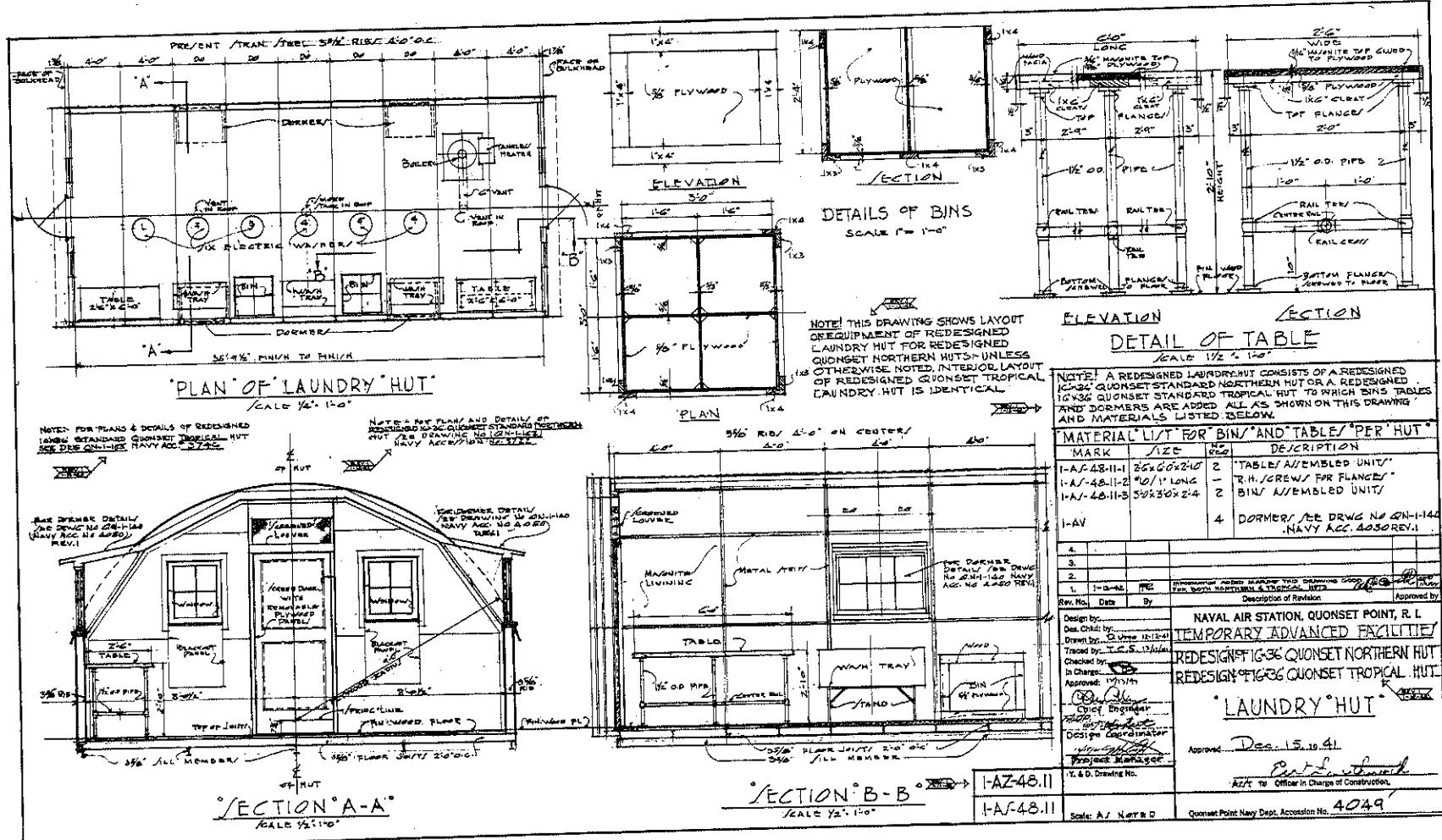
Approved: 6-11-1941

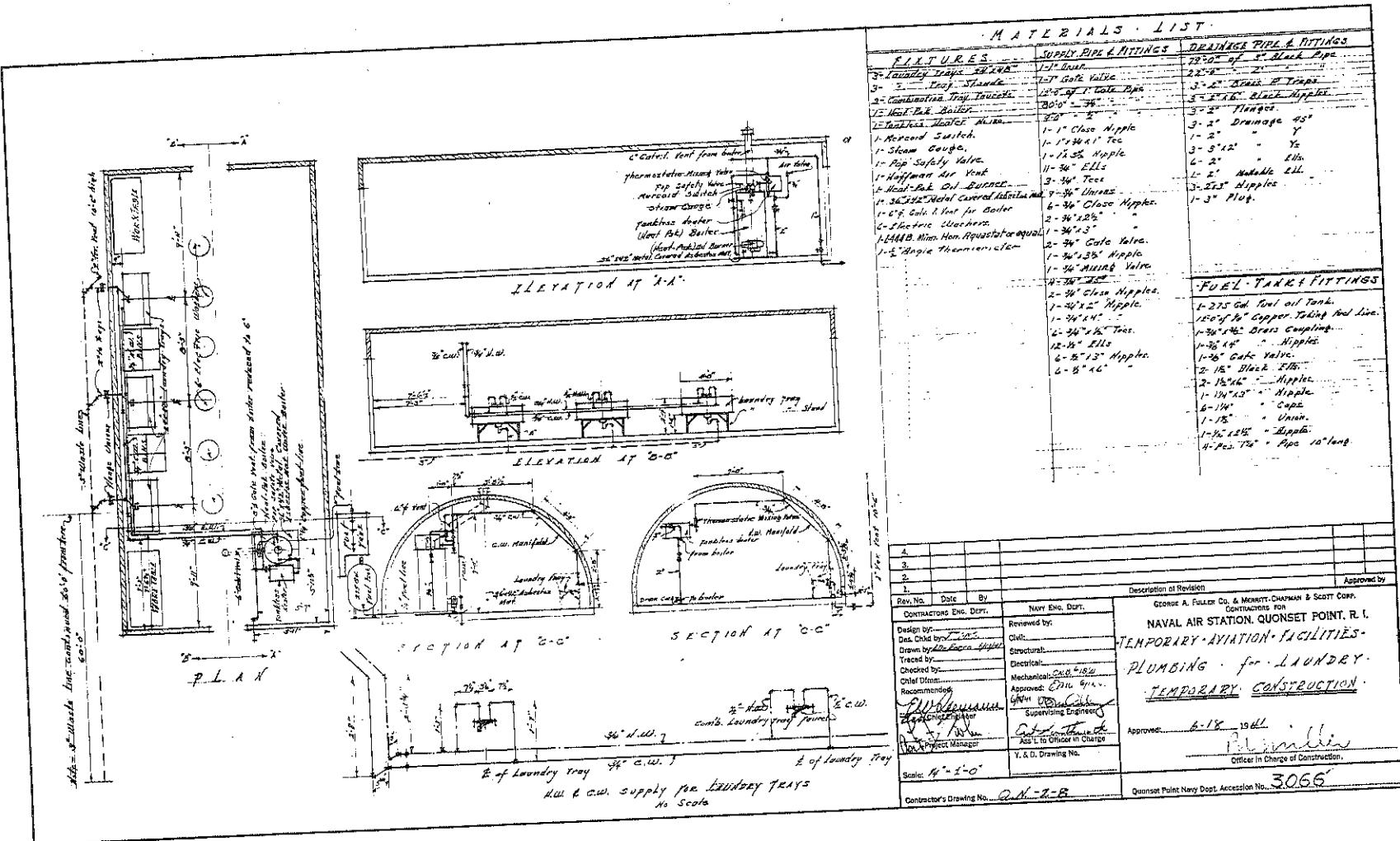
Officer in Charge of Construction: R. W. Miller

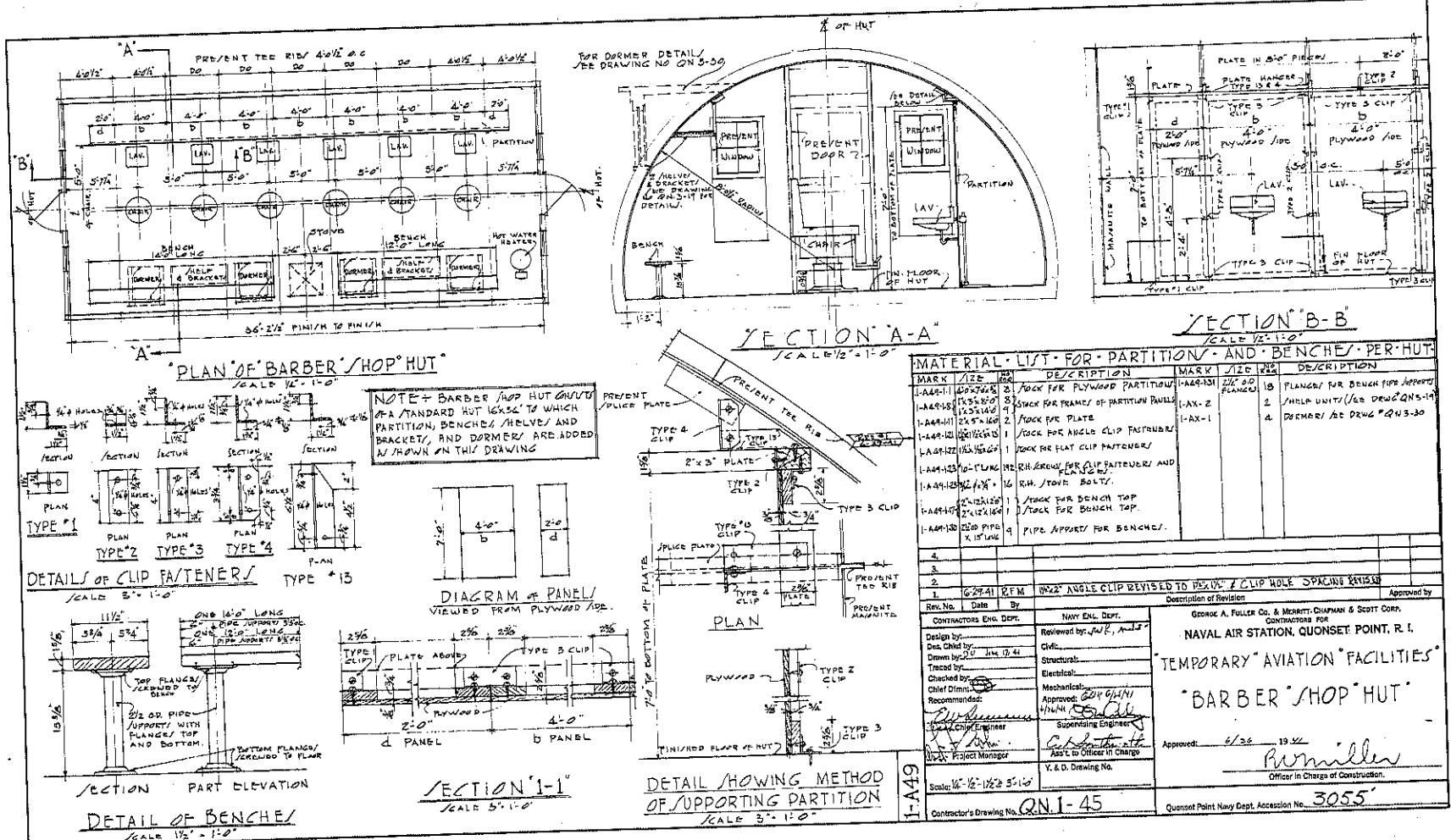
Officer in Charge of Construction: R. W. Miller

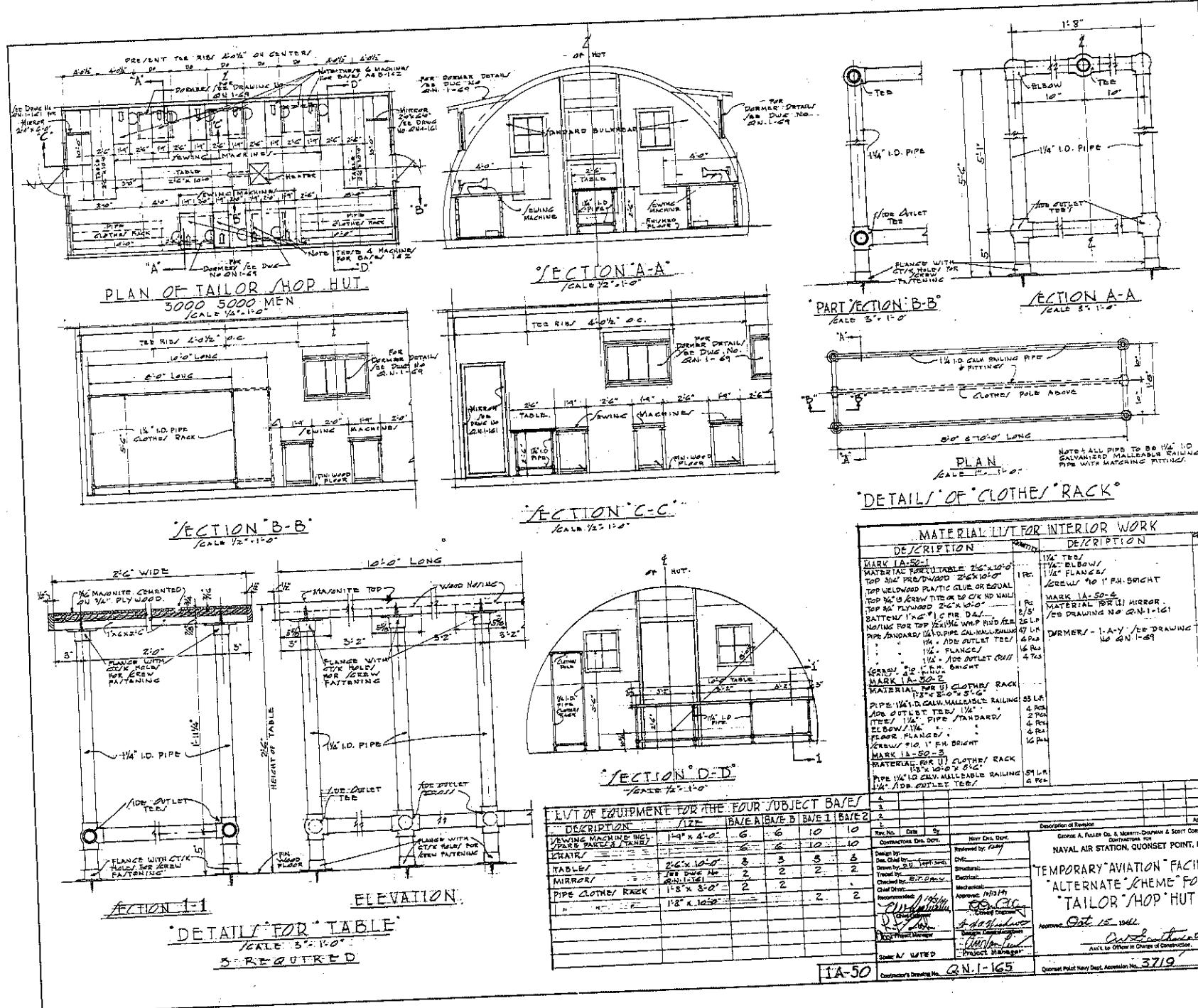
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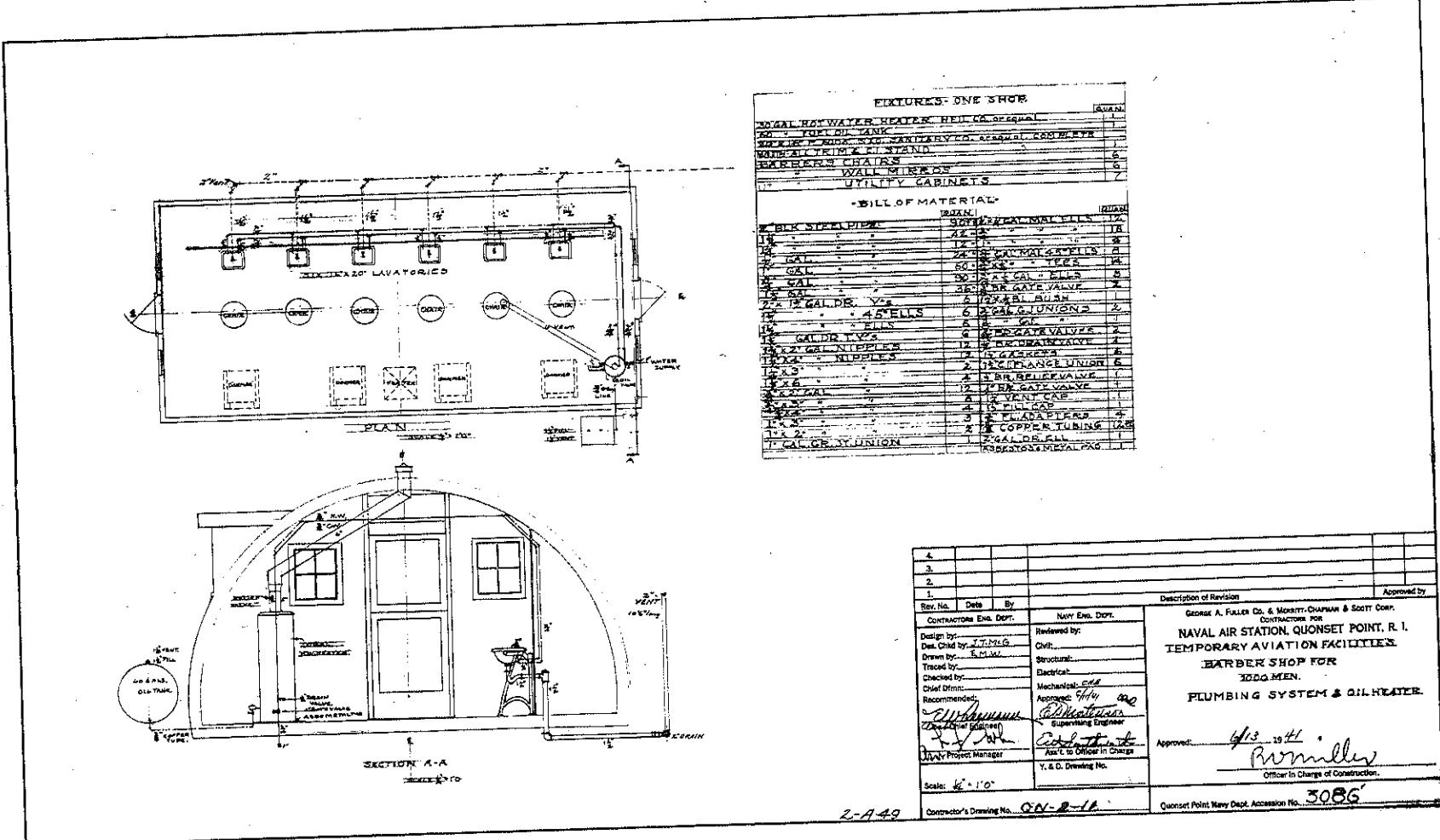
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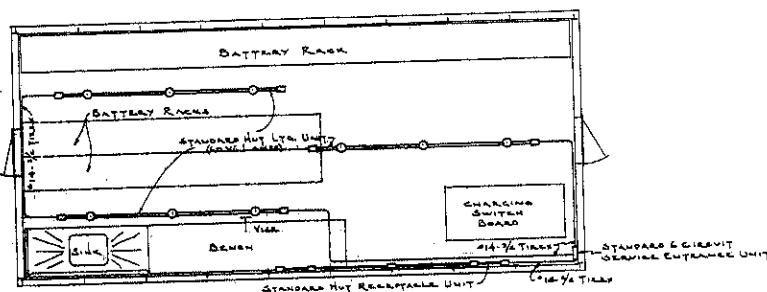




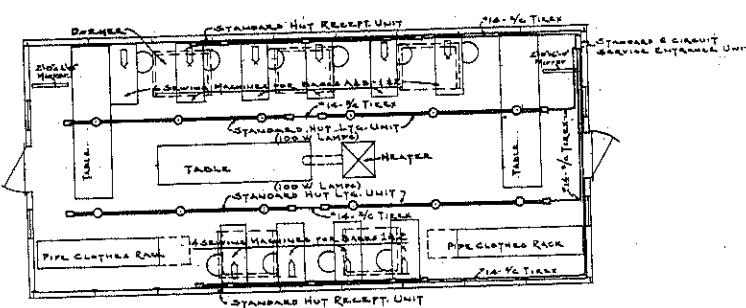








STORAGE BATTERY SHOP



TAILOR SHOP HUT

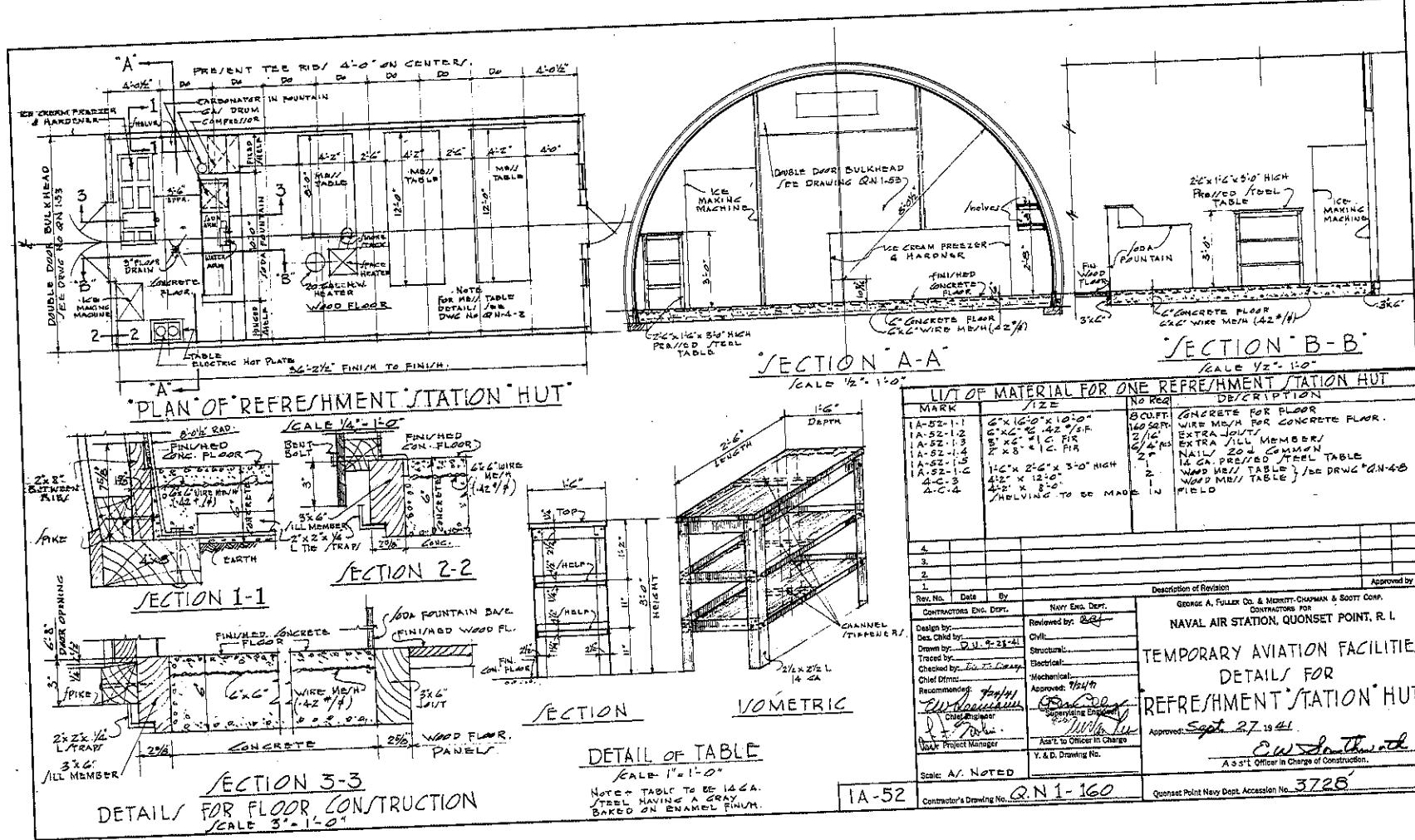
Description of Revision			Approved by
4.			
3.			
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1.			
Rev. No.	Date	By	
CONTRACTORS Eng. Dept.			Navv Eng. Dept.
Designed by:	Reviewed by:		
Chief Eng. by:	Civil:		
Drawn by:	Structural:		
Treated by:	Electrical:	<i>P. J. Kelly</i>	
Checked by:	Mechanical:		
Chief Draftsman:	Approved:	<i>W. H. Kelly</i>	
Recommended by:	Chief Engineer:	<i>O. J. Kelly</i>	
Chief Engineer:	Architect:	<i>W. H. Kelly</i>	
Project Manager:	Design Coordinator:	<i>W. H. Kelly</i>	
Scale: 1/4" = 1'-0"	Project Manager:	<i>W. H. Kelly</i>	
Approved: Jan. 6, 1942			
Eng. Department Asst to Officer in Charge of Construction			

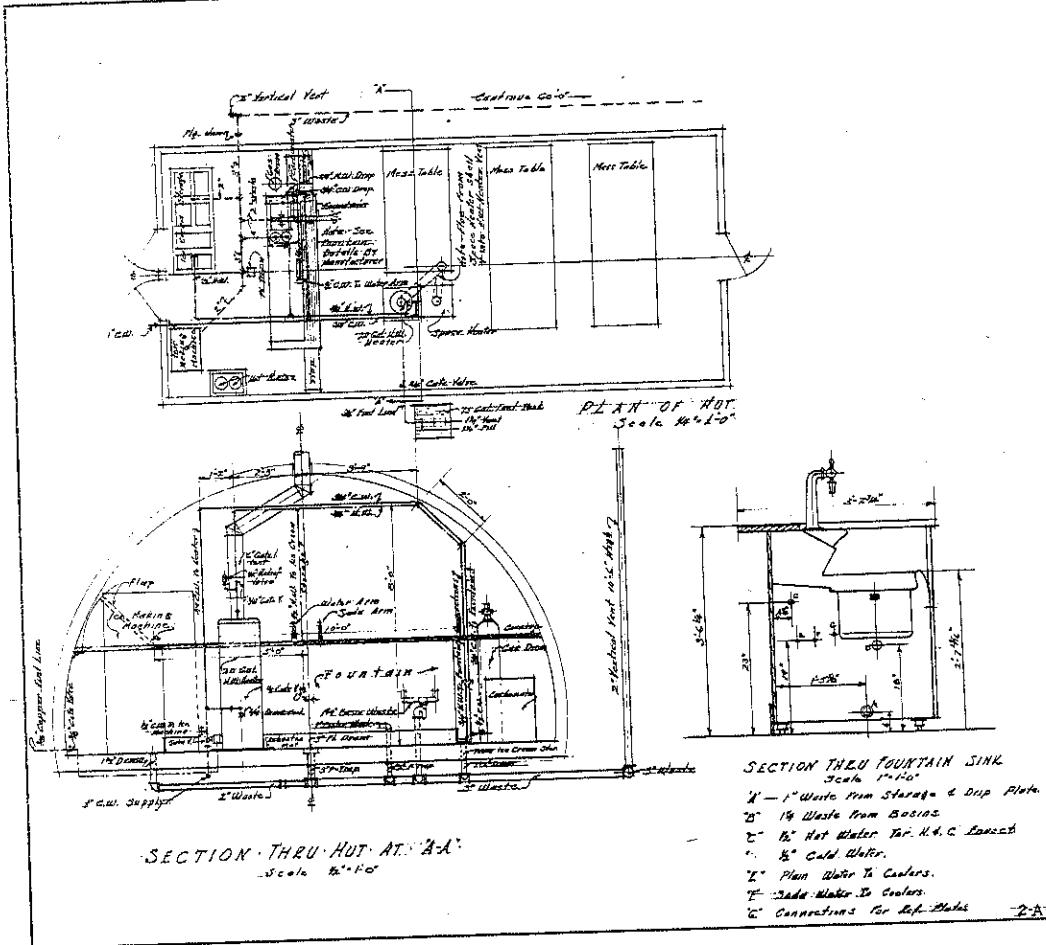
General A. Fuller Co. & Merchant-Chapman & Scott Corp.
CONTRACTORS FOR
NAVAL AIR STATION QUONSET POINT, R. I.
T.A.F.
STORAGE BATTERY SHOP HUT SA-53
TAILOR SHOP HUT SA-50
LIGHTING LAYOUT

3A-50 QN-3-107

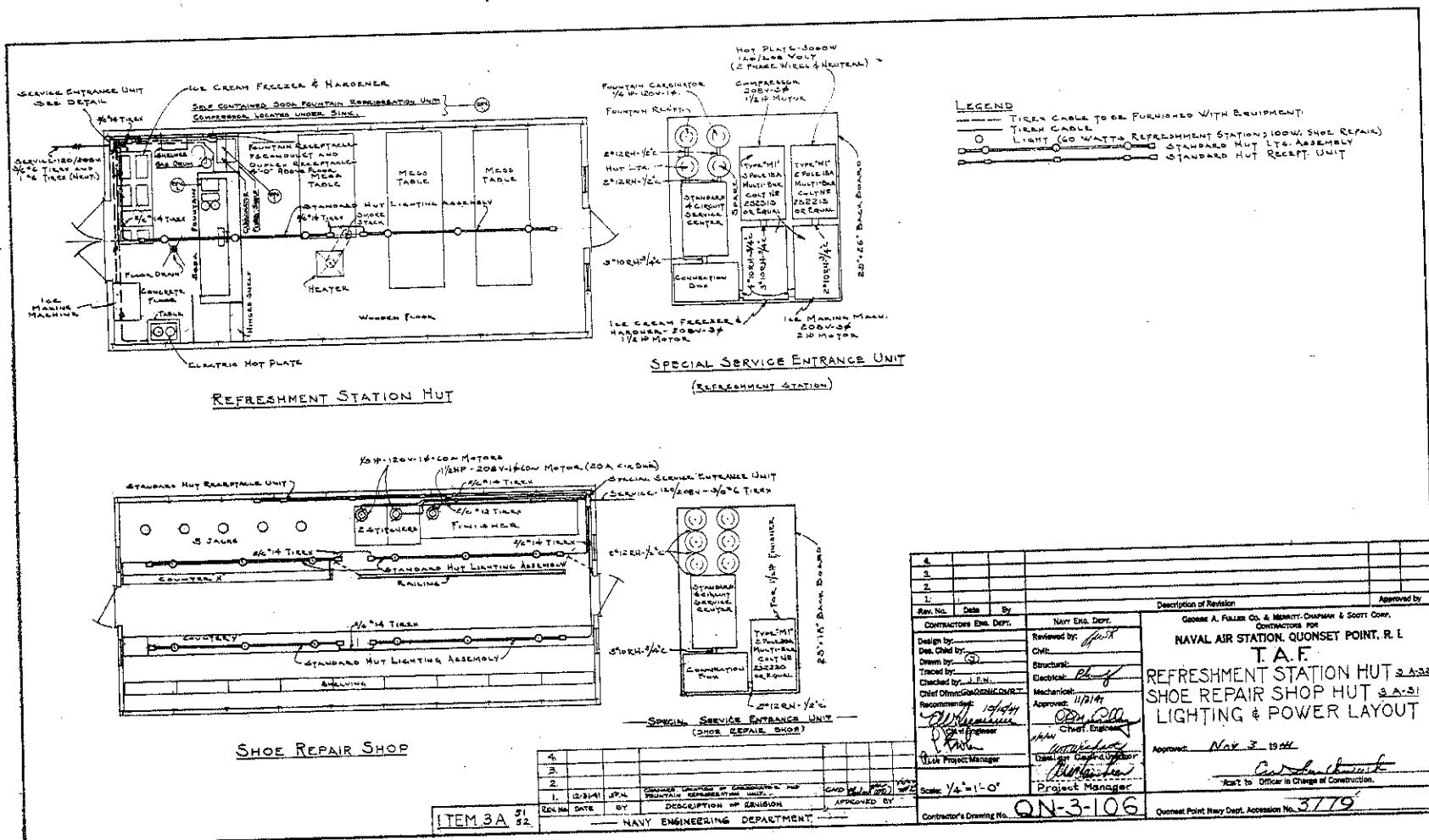
Quonset Point Navy Dept. Account No. 3755'

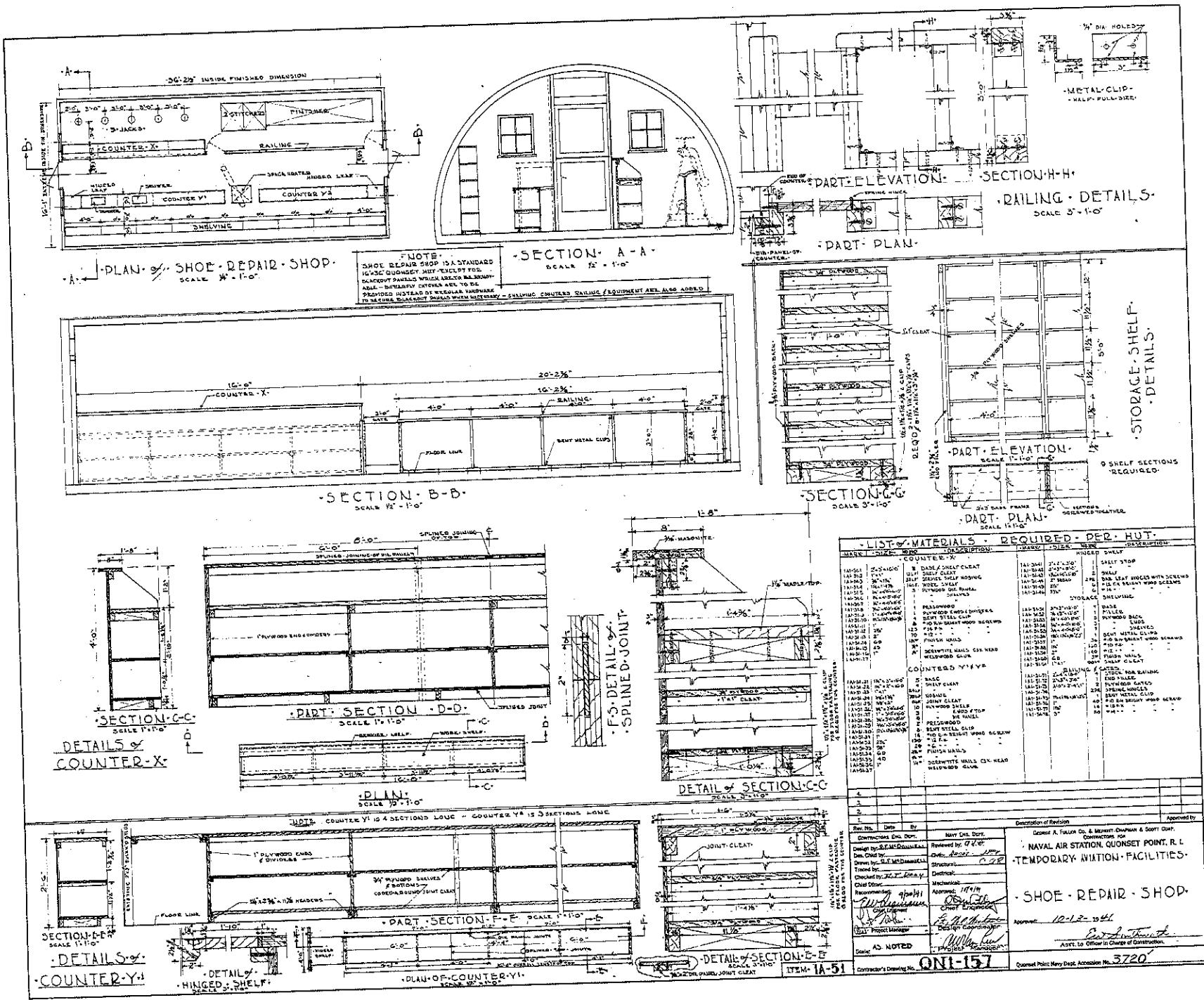
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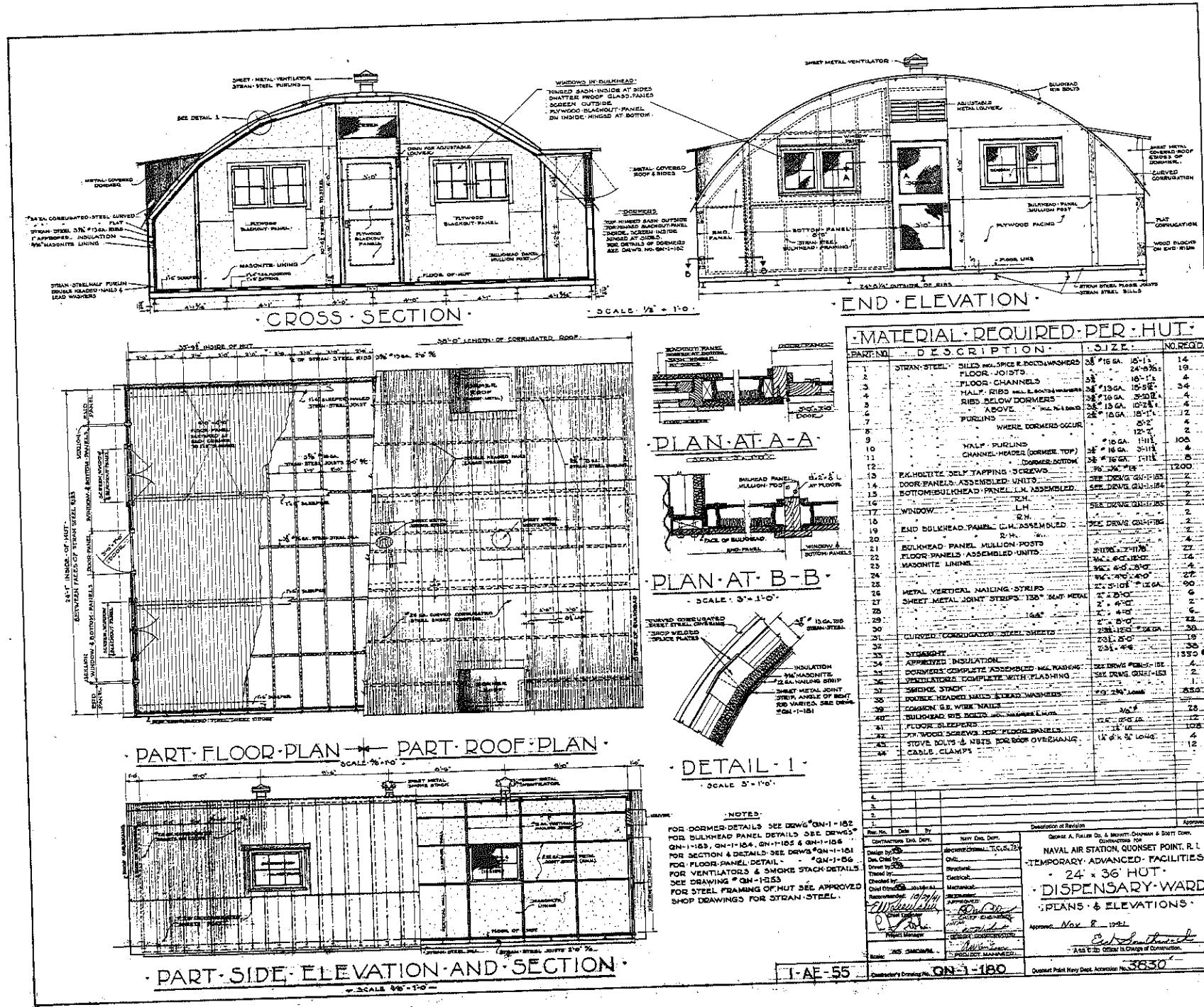




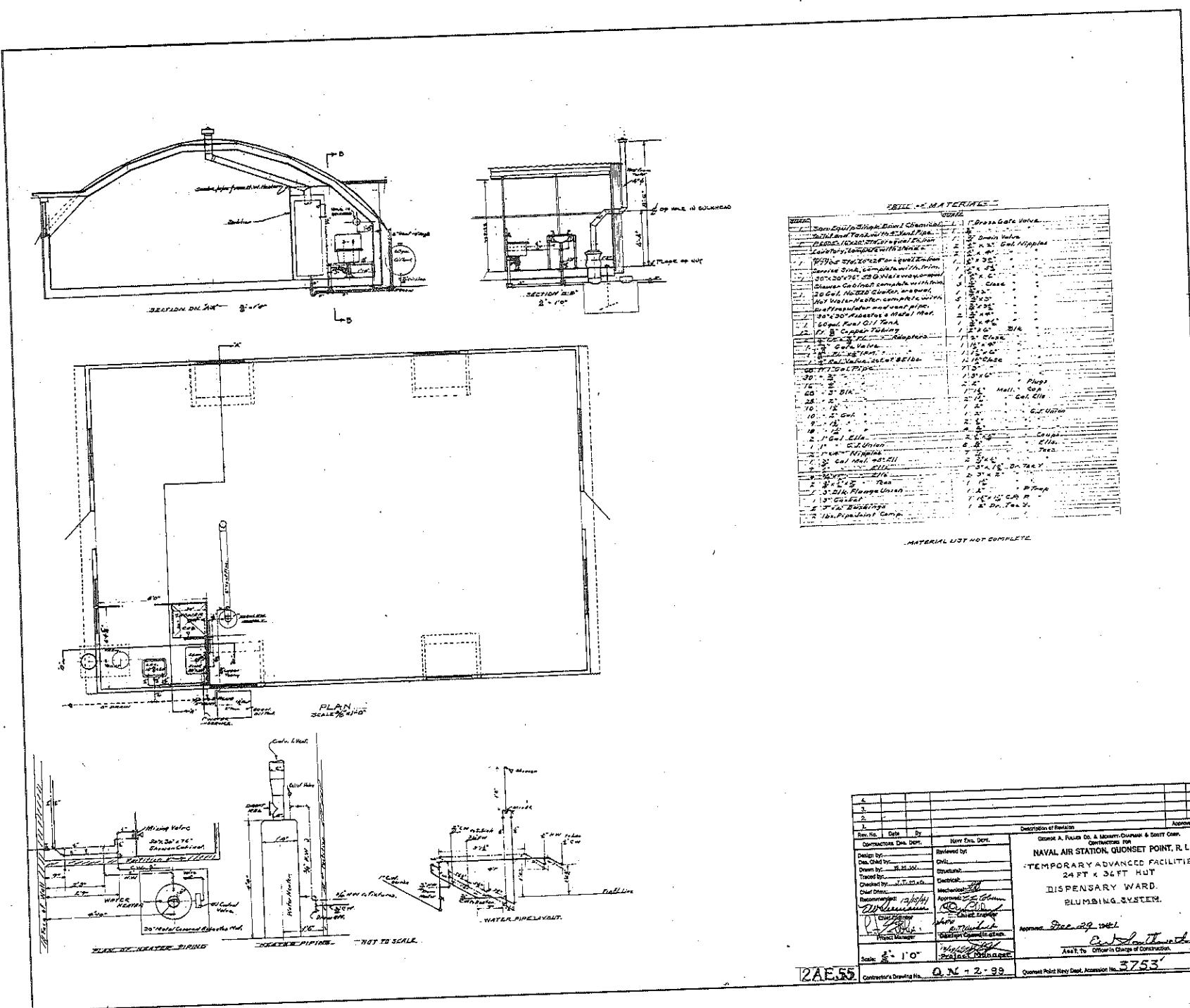
MATERIALS		LIST
1	20 Gal. Hot Water Heater.	1 1/2" Gal. Union
1	1" Relief Valve set @ 35°.	1 1/2" "
1	Set 4" Galv. Iron Heater Kart & Supports	2 1/2" "
1	24" X 4" Metal Corrugated Asbestos Mat	3 1/2" Elbow
1	12 ft. length 36° AD Copper Tubing	6 1/2" " 45° "
1	36" Galv. Valve	2 1/2" "
3	36" I.P. Nut & M.F. Flare Adapters	4 1/2" "
1	1" I.P. Nut & 45° Flare Adapter	4 3/4" X 1/2" Galv. Tee
1	1" Brass Union - Tee	2 3/4" " 45° "
1	3" Galv. P-Tube	2 3/4" "
1	1/2" " P-Tube	1 1/2" Elbow
1	1/2" Brass Plug	1 1/2" "
4	Plugs	75 Gal. Tank w/ tank fittings, Plugs
1	5/8" Galv. Nut Elbow	1 1/2" Bkt. Nut Elbows
1	3" Galv. Flange Union	1 1/2" X 3" Bkt. Steel Nipples
1	Flange Union Bushes	1 1/2" G. "
1	3/8" Galv. Threaded T-Yoke	1 1/2" "
1	3" TECK	3 TECK
4	X 1/2" " Elbow	3/4" "
1	1" 3/4" " Elbow	3/4" Black Steel Nipple
4	3/4" Bkt. Plugs	2 3/4" "
4	1/2" Galv. Drainage Elbow	2 1/2" "
1	1/2" Bkt. Cap	2 1/2" "
1	1/2" " Tee	2 1/2" Class
4	1/2" " Elbow	1 1/2" Galv.
3	1/2" Class	1 1/2" "
1	1/2" Galv. Nipple	1 1/2" "
4	1/2" " Elbow	1 1/2" "
10	1" 3/4" Bkt. Pipe	1 1/2" "
50	" 2" " "	1 1/2" "
10	" 1 1/2" " "	1 1/2" "
60	" 1" " "	1 1/2" "
60	" 3/4" " "	1 1/2" "
140	" 1/2" " "	1 1/2" "
4	3/4" " Elbow	3/4" Class
3	3/4" " Tee	1 1/2" "
4	3/4" " Cap	1 1/2" "
5	3/4" " Drain Cock	1 1/2" "
1	1/2" " Drain Cock	3/4" Class
6	3/4" " King Hangers	1 1/2" "
5	1/2" " "	1 1/2" "
Note: Materials list not complete		
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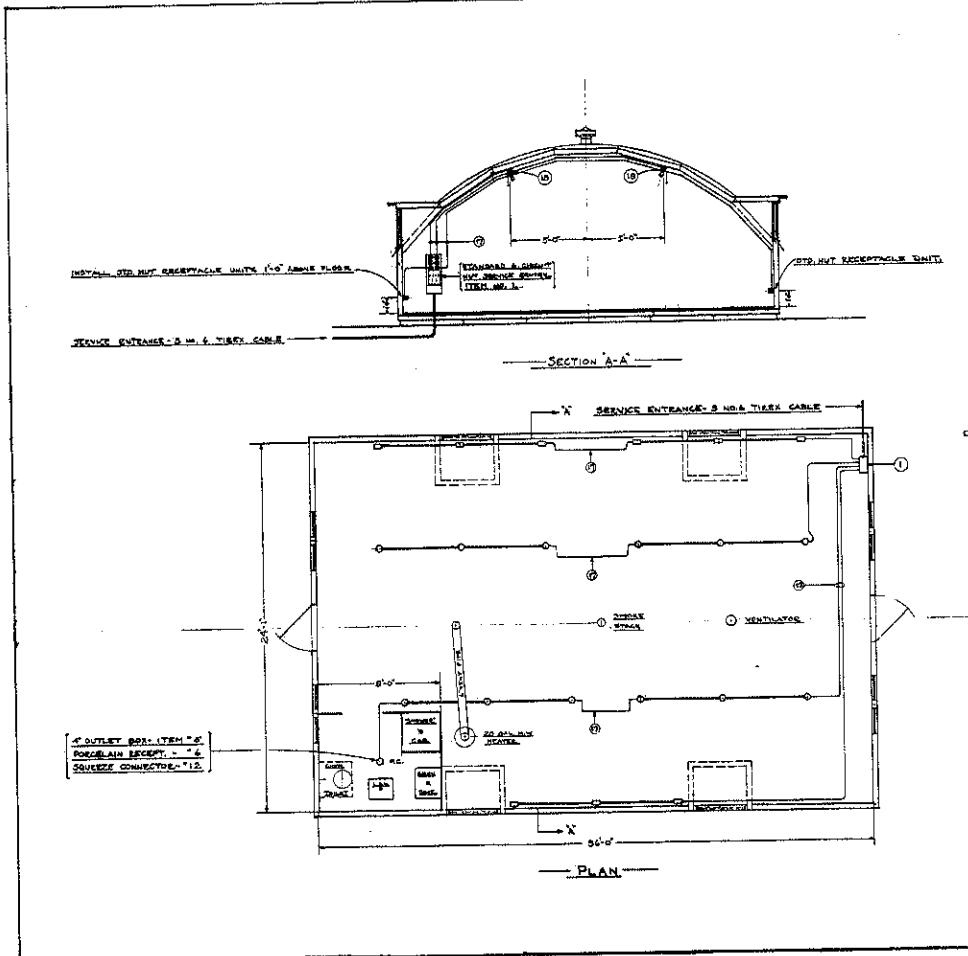


QAN-1-180



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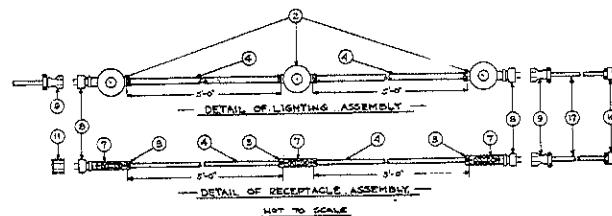
QN-3-E51



LIST OF MATERIAL	
ITEM NO.	QUAN.
1	1
2	12
3	1
4	72
5	1
6	1
7	1
8	14
9	12
10	4
11	2
12	1
13	50
14	160
15	100
16	160
17	140
18	12
19	10
20	2
21	120

ITEM DESCRIPTION

- 4 CIRCUIT RIB CONDUIT COMPLETE.
- 16 G HOOKLETS FOR LIGHTING COMPLETE WITH SOCKET & COVER STYLE. NOTE: 8 IS FC.
- 16 G CONDUITS - CEILING KIDS C-17 OR EQUAL.
- 16 CONDUIT: TWO 4' LENGTHS, FOR EACH LIGHTING OR RECEPTACLE ASSEMBLY.
- 4 OCTAGON OUTLET BOX 1/4 IN. STEEL CITY QN-3-A OR EQUAL.
- POEG PULL CHAIN RECEPT. FOR 4' BOX WITH CHAIN AND INSULATOR. BENDIX A-227 OR EQUAL.
- Ceiling kids C-17 OR EQUAL. DUPLEX RECEPTACLE FOR C-17 CONDUIT.
- RUBBER CORD CONNECTOR: MALE - WITH 1/8 CONDUIT NIPPLE ATTACHED. PROTEX 110 OR EQUAL.
- RUBBER ATTACHMENT CAP: TWIST-TO-LOC BEANIE. T-204 OR EQUAL.
- PLUGGED SUMMAY - 10 FEET CORD UNPLUGGED LINE CORD CONNECTOR. PROTEX.
- 96 SOURCELE CONNECTOR TO TAKE 1/4 IN. TIRED-X-T AND 5 ZEPHYR OR EQUAL.
- 16 ONE POLARIS TYPE STRAPS - STEEL CITY 170 OR EQUAL.
- 16 PLUGS: BLACK FOR WIRING, LIGHTING AND RECEPTACLE ASSEMBLIES.
- 16 PLUGS: WHITE - "
- 160 TIRED CORD - "
- THREE LIGHTS: BRYANT H-16 - "
- 10 WATT 120 VOLT LAMP - "
- 2 70 WATT 120 VOLT LAMPS - HIVE LIGHTS - "
- 50 MINERALAC WIRE CLIPS - CARBON PLATED STEEL - "



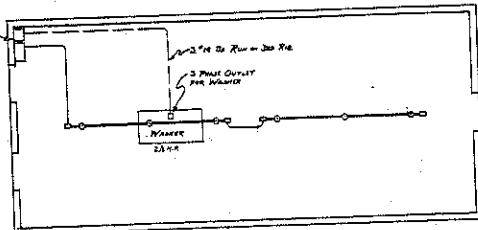
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Rev. No.	Date	By	Description of Revision	Approved by
Design by: J. E. BYRNE Drawn by: J. E. BYRNE Checked by: J. E. BYRNE Approved by: J. E. BYRNE				
Specified by: U.S. NAVAL AIR STATION, Quonset Point, R.I. T. A. F.				
In Charge: C. C. COLEMAN Approved: C. C. COLEMAN				
Y. & D. Drawing No.: 3849				
Approved: JAN 3, 1952				
Architect: <i>[Signature]</i> Asst. to Office in Charge of Construction				

ITEM-3-AE-55

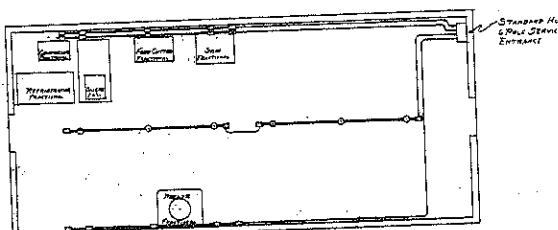
Scale AS NOTED

Quonset Point Navy Dept. Accession No. 3849

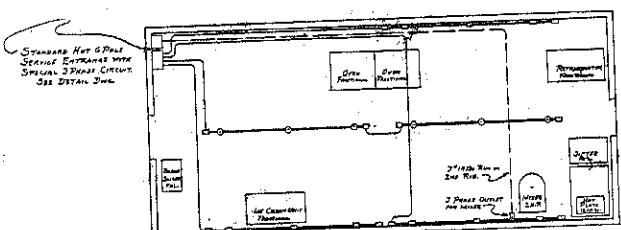
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SCULLERY

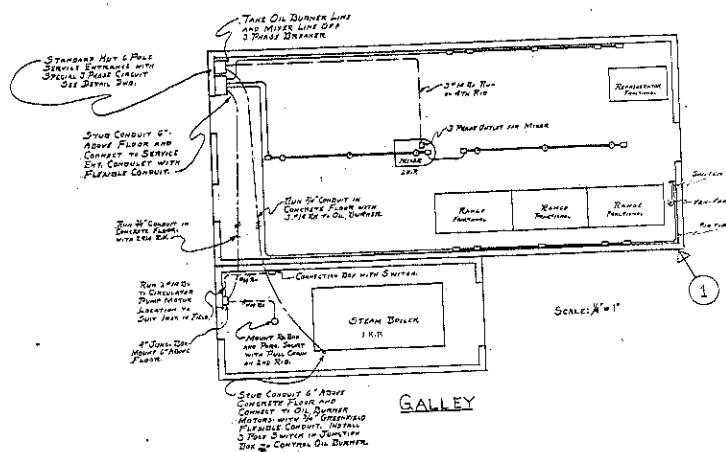


PREPARATION

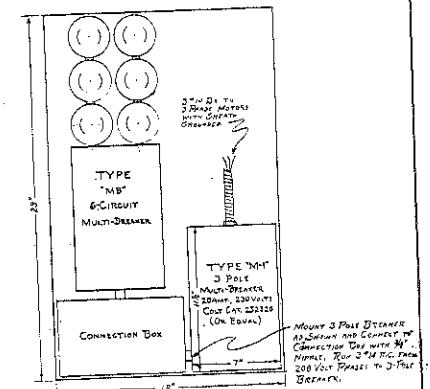


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GALLEY

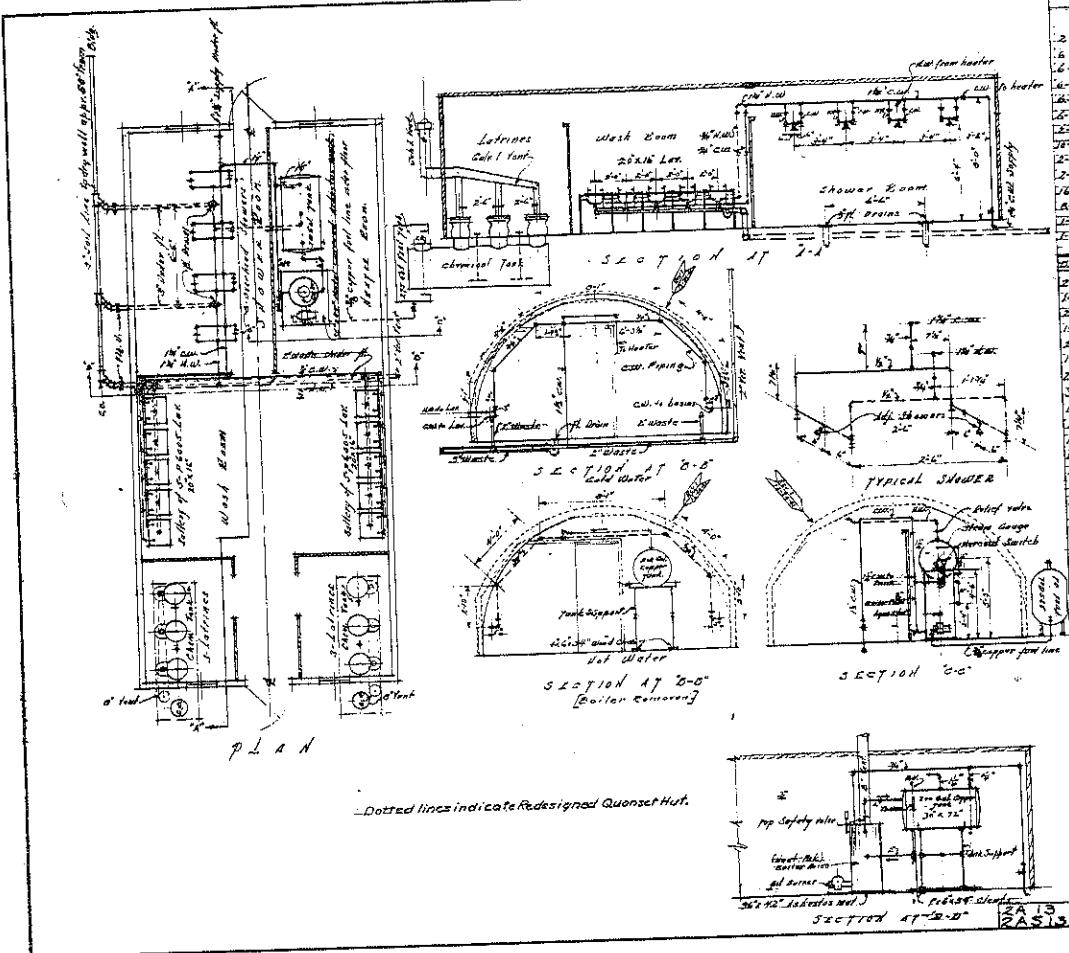


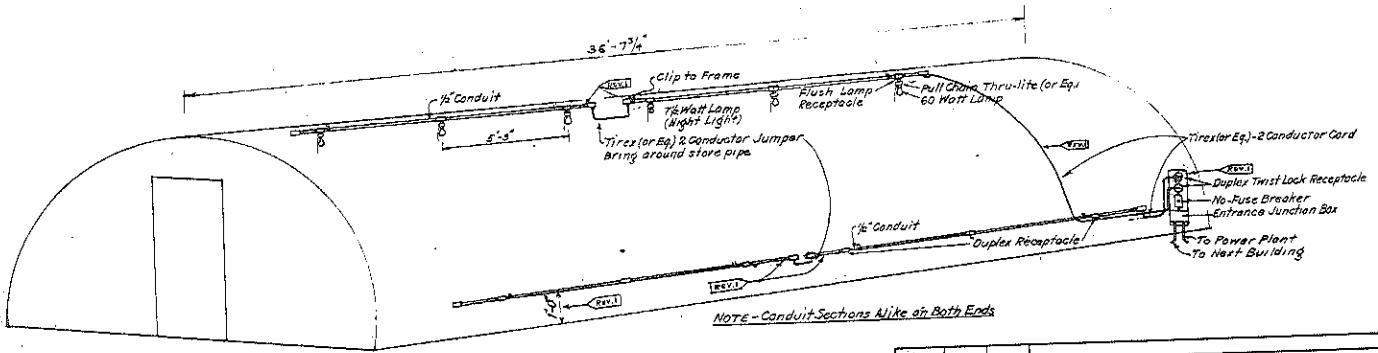
DETAIL OF
SPECIAL 3 PHASE SERVICE ENTRANCE

— NOTE —
ABOVE UNIT CONSISTS OF STANDARD HUT SERVICE UNIT MOUNTED ON 20" X 16" BOARD WITH ADDITIONAL 3 POLE BREAKER #3. SHOWN FOR 3 PHASE POWER CIRCUIT. CONNECTION BOX MUST BE GROUNDED.

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<td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>112</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>113</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>114</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>115</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>116</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>117</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>118</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>119</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>120</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>121</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>122</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>123</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>124</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>125</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>126</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>127</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>128</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>129</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>130</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>131</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>132</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>133</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>134</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>135</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>136</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>137</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>138</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>139</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>140</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>141</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>142</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>143</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>144</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>145</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>146</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>147</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>148</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>149</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>150</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>151</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>152</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>153</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>154</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>155</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>156</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>157</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>158</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>159</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>160</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>161</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>162</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>163</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>164</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>165</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>166</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>167</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>168</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>169</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>170</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>171</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>172</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>173</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>174</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>175</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>176</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>177</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>178</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>179</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>180</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>181</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>182</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>183</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>184</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>185</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>186</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>187</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>188</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>189</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>190</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>191</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>192</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>193</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>194</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>195</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>196</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>197</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>198</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>199</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>200</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>201</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>202</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>203</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>204</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>205</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>206</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>207</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>208</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>209</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>210</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>211</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>212</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>213</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>214</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>215</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>216</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>217</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>218</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>219</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>220</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>221</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>222</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>223</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>224</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>225</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>226</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>227</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>228</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>229</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>230</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>231</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>232</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>233</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>234</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>235</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>236</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>237</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>238</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>239</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>240</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>241</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>242</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>243</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>244</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>245</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>246</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>247</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>248</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>249</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>250</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>251</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>252</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>253</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>254</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>255</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>256</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>257</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>258</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>259</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>260</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>261</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>262</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>263</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>264</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>265</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>266</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>267</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>268</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>269</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>270</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>271</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>272</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>273</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>274</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>275</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>276</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>277</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>278</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>279</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>280</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>281</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>282</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>283</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>284</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>285</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>286</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>287</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>288</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>289</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>290</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>291</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>292</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>293</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>294</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>295</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>296</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>297</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>298</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>299</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>300</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>301</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>302</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>303</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>304</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>305</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>306</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>307</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>308</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>309</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>310</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>311</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>312</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> 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CRATE NO.	PIECES NO. OF	WEIGHTS	CRATE CONTENTS	CUBIC INCH	CRATE SIZE	MARK	NET	GROSS
9	1780	1722	Floor Panels (2 bundles Required) (No Floor Joists)	19	8 ¹ / ₂ " x 4 ¹ / ₂ " x 1 ¹ / ₂ "	1222.	1722	1780
10A on 2	362	274	Insulation	31	5 ¹ / ₂ " x 2 ¹ / ₂ " x 2 ¹ / ₂ "	43.	463.	11089
11A on 2	1237	1237	Totals					





PHANTOM VIEW OF HUT
WITH ELECTRIC CONNECTION

*NOTE-INSTALLATION VARIES WITH USE
REQUIREMENTS-SEE DWG. QN-3-2 FOR
DETAILS.*

4.				
3.				
2.				
1.	4-4-46	P.J.W.	Change in mounting of receptacles resulting in longer conductive sections to shorten journeys.	Approved by
Rev. No.	Date	By	Description of Revision	
CONTRACTORS ENG. DEPT.		Navy Eng. Dept.	George A. FULLER CO. & MORRITT, CHAPMAN & SCOTT CORP.	
Design by:		P.J.W.	Reviewed by:	CONTRACTOR
Des. Chkd by:			CIVL:	NAVAL AIR STATION, QUONSET POINT, R.I.
Drawn by:		P.J.W.	Structural:	
Traced by:			Electrical: <i>Eng</i>	
Checked by:			Mechanical:	
Chief Officer:		<i>Subtelle</i>	Approved:	
Recommended:		<i>3/27/46 Work</i>	4/4/46 CPO	
Chief Engineer:			Supervising Engineer:	
<i>Eric H. Hansen</i>		<i>Eng. Subtelle</i>	Asst L to Officer in Charge	
Project Manager:				
Scale:	NONE		Y. & D. Drawing No.	<i>Wm. Muller</i>
Contractor's Drawing No.			Quonset Point Navy Dept. Accession No.	2761
QN-3-8				

TEMPORARY AVIATION FACILITIES

TYPICAL ELECTRIC LAYOUT
16' x 36' HUT

w/ε w/p

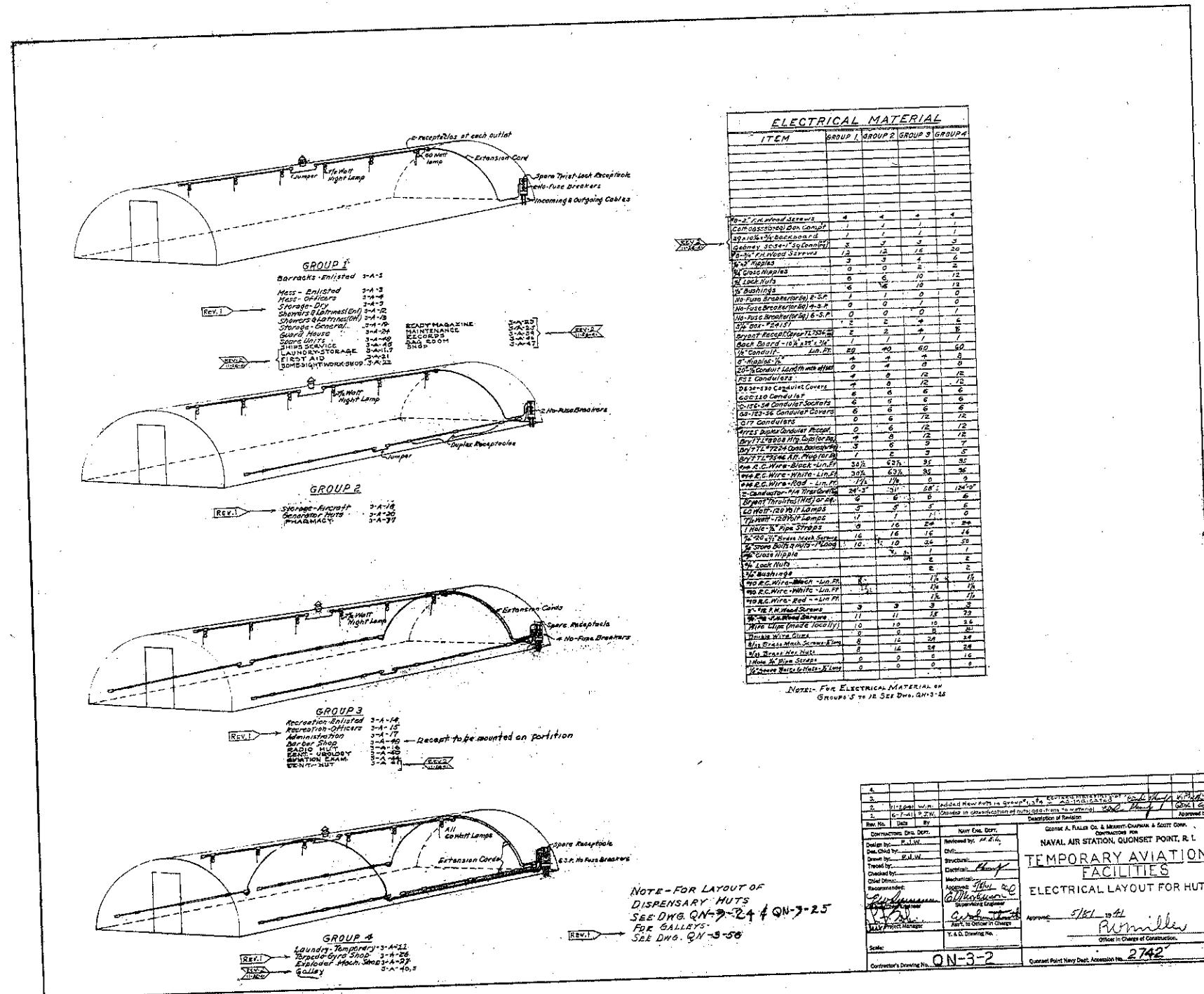
Approved: 7-19-07

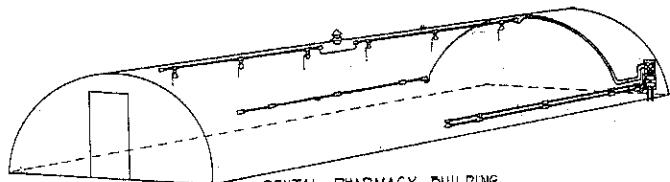
W. M. Miller
Officer in Charge of Construction.

2761

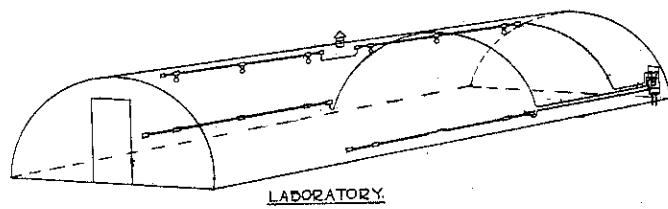
Quonset Point Navy Dept. Accession No. 50-1

QN-3-8

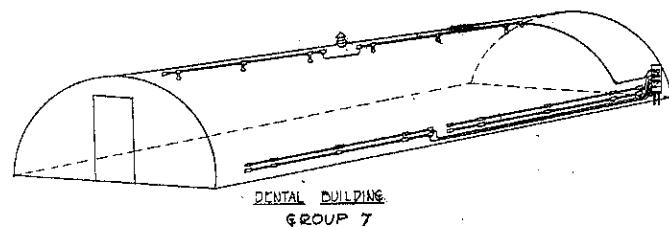




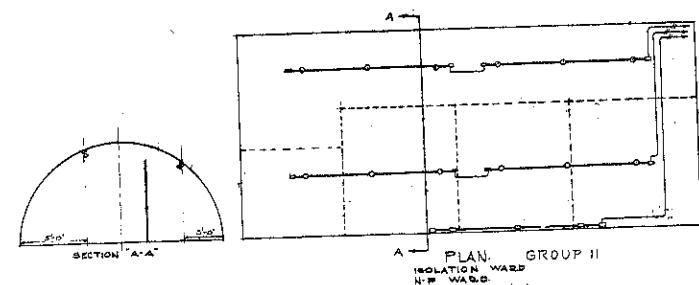
DENTAL-PHARMACY BUILDING
GROUP 5



LABORATORY
GROUP 6



DENTAL BUILDING
GROUP 7

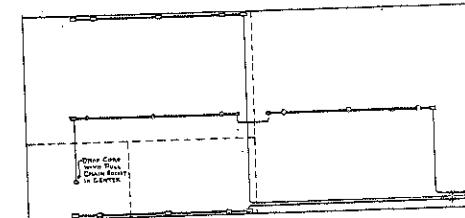
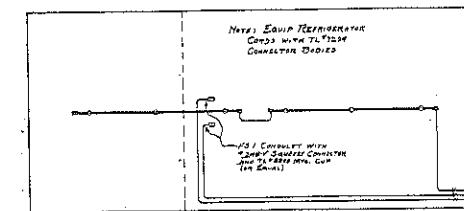
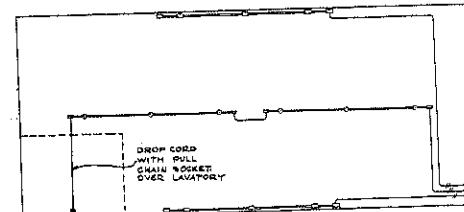


NOTE: FOR ELECTRICAL MATERIAL
LIST SEE DWG. GN-3-25
FOR GROUPS 1 TO 4, SEE DWG. GN-3-22
FOR GROUPS 12 TO - SEE DWG. GN-3-25

-3-A

Contractor's Drawing No. QN-3-24

General Plan Navy Dept. Assession No. 3333



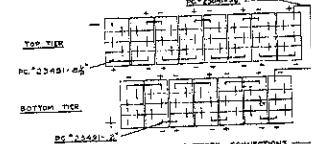
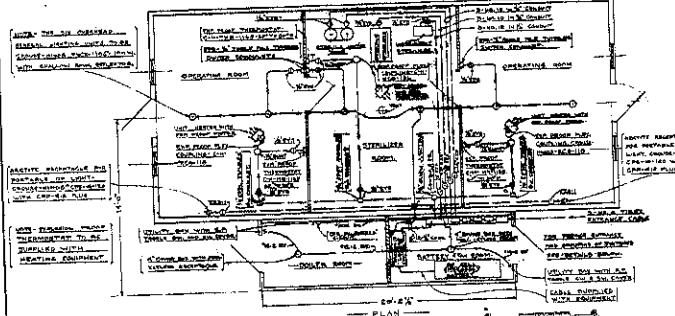
Rev. No.	Date	By	Description of Revision	Approved by
			Contractors Eng. Dept.	George A. Finney Co. & Messing, Chapman & Scott Corp.
			Design by S.M.D. - E.W.L.	Contractors for
			Checked by G.H.C. - E.W.L.	NAVAL AIR STATION, QUONSET POINT, R.I.
			Drawn by J.W.A.	
			checked by J.W.A.	
			Revised by J.W.A.	
			Approved by G.H.C./E.W.L.	
			checked by G.H.C./E.W.L.	
			Supervising Engineer	
			checked by G.H.C./E.W.L.	
			Check Officer in Charge	
			Y.G.C. Drawing No.	
			Y.G.C. Drawing No.	
			Scale AS NOTED	
			Contractor's Drawing No.	
			Approved 2/24/1944	
			By [Signature]	
			Officer in Charge of Construction	

TEMPORARY AVIATION
FACILITIES
ELECTRICAL LAYOUT FOR HUTS
DISPENSARY

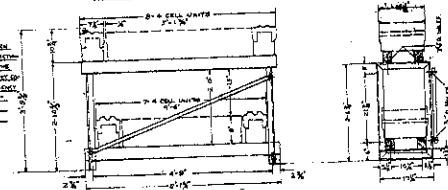
QN-3-24

THIS LAYOUT OF SURGERY HUT SUPERSEDED BY DWG. QN-3-25.

SURGERY HUT

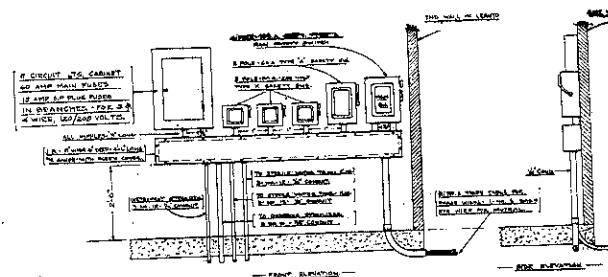


ONE-TIME BATTERIES ADDED
ABOVE THE BATTERY CONNECTION
SECTION ARE THREE 100 AMP.
HRS. BATT. EACH CONNECTED
IN SERIES TO THE BATTERIES
BELOW. THE CENTER UNIT
CONTAINS TWO 100 AMP.
HRS. BATT. AND ONE 100 AMP.
HRS. BATT. EACH.



DETAILS OF BATTERY RACK AND BATTERIES

SCALE: 1/2" = 1'-0"



DETAILS OF SERVICE BUS AND SWITCHES

SCALE: 1/2" = 1'-0"

SUPERSEDED BY DWG. QN-3-25

ELECTRICAL MATERIAL-SURGERY HUT

ITEM

GROUP 5 GROUP 6 GROUP 7 GROUP 8 GROUP 9 GROUP 10 GROUP 11 GROUP 12 GROUP 13 GROUP 14

1 SOURCE CIRCUIT BREAKER - 200A 3 0 2 0 3 2 2 2 2 2

2 12 V. 100 AMP. HRS. BATT. 0 0 0 4 0 0 0 0 0 0

3 12 V. 100 AMP. HRS. BATT. 0 4 6 0 0 0 0 0 0 0

4 12 V. 100 AMP. HRS. BATT. 10 10 10 0 0 0 0 0 0 0

5 12 V. 100 AMP. HRS. BATT. 10 10 10 0 0 0 0 0 0 0

6 12 V. 100 AMP. HRS. BATT. 0 0 0 1 1 1 1 1 1 1

7 12 V. 100 AMP. HRS. BATT. 0 0 0 0 0 0 0 0 0 0

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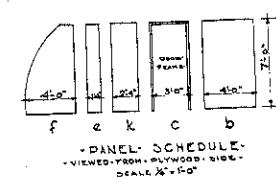
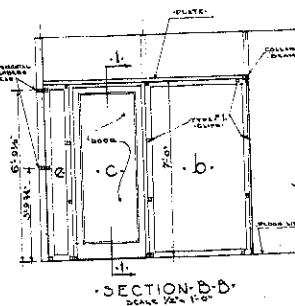
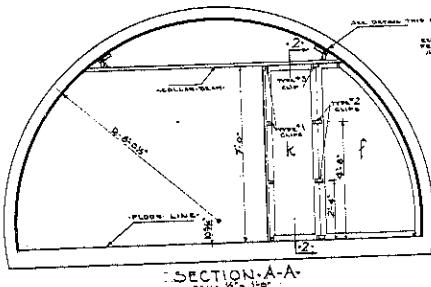
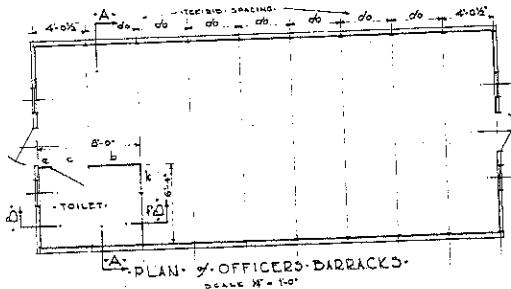
132 12 V. 100 AMP. HRS. BATT. 0 0 0 0 0 0 0 0 0 0

133 12 V. 100 AMP. HRS. BATT. 0 0 0 0 0 0 0 0 0 0

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135 12 V. 100 AMP. HRS. BATT. 0 0 0 0 0 0 0 0 0 0

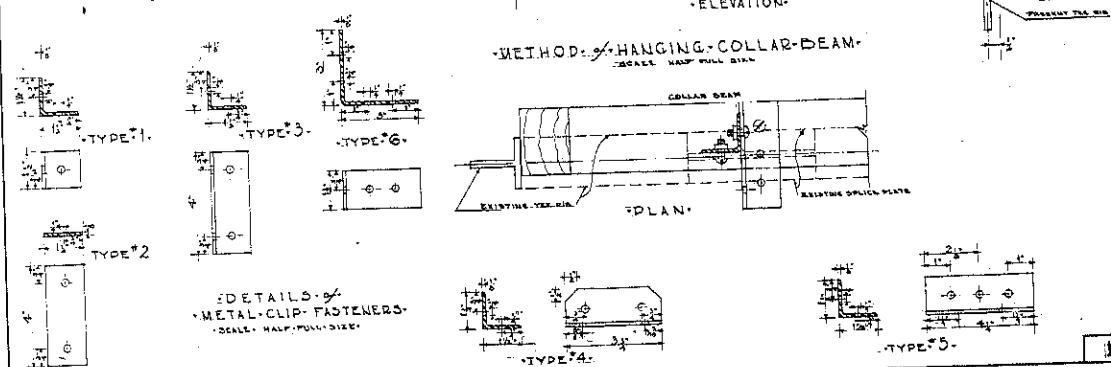
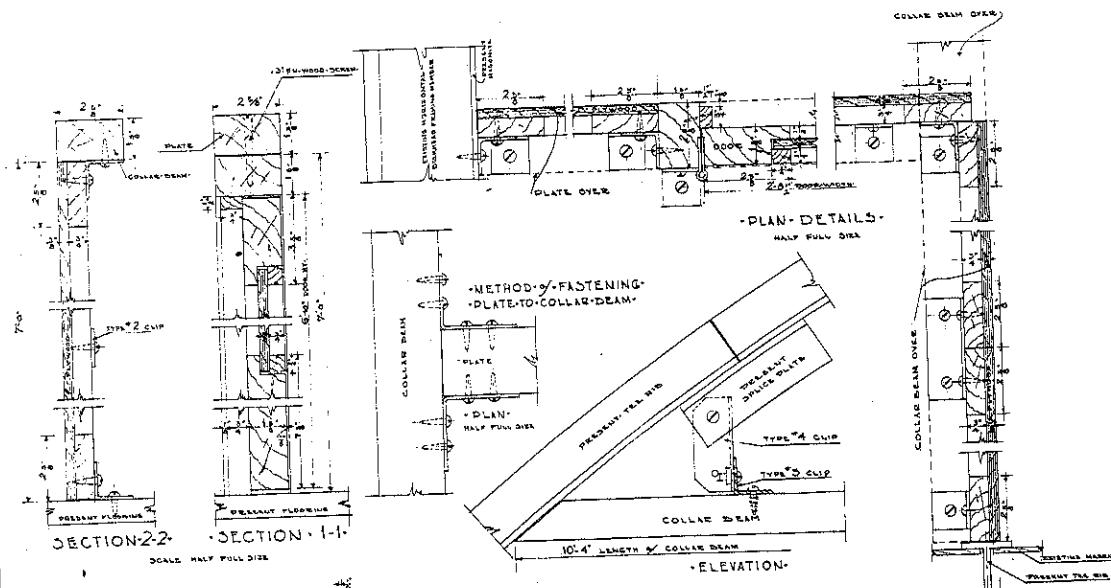
136 12 V. 100 AMP. HRS.



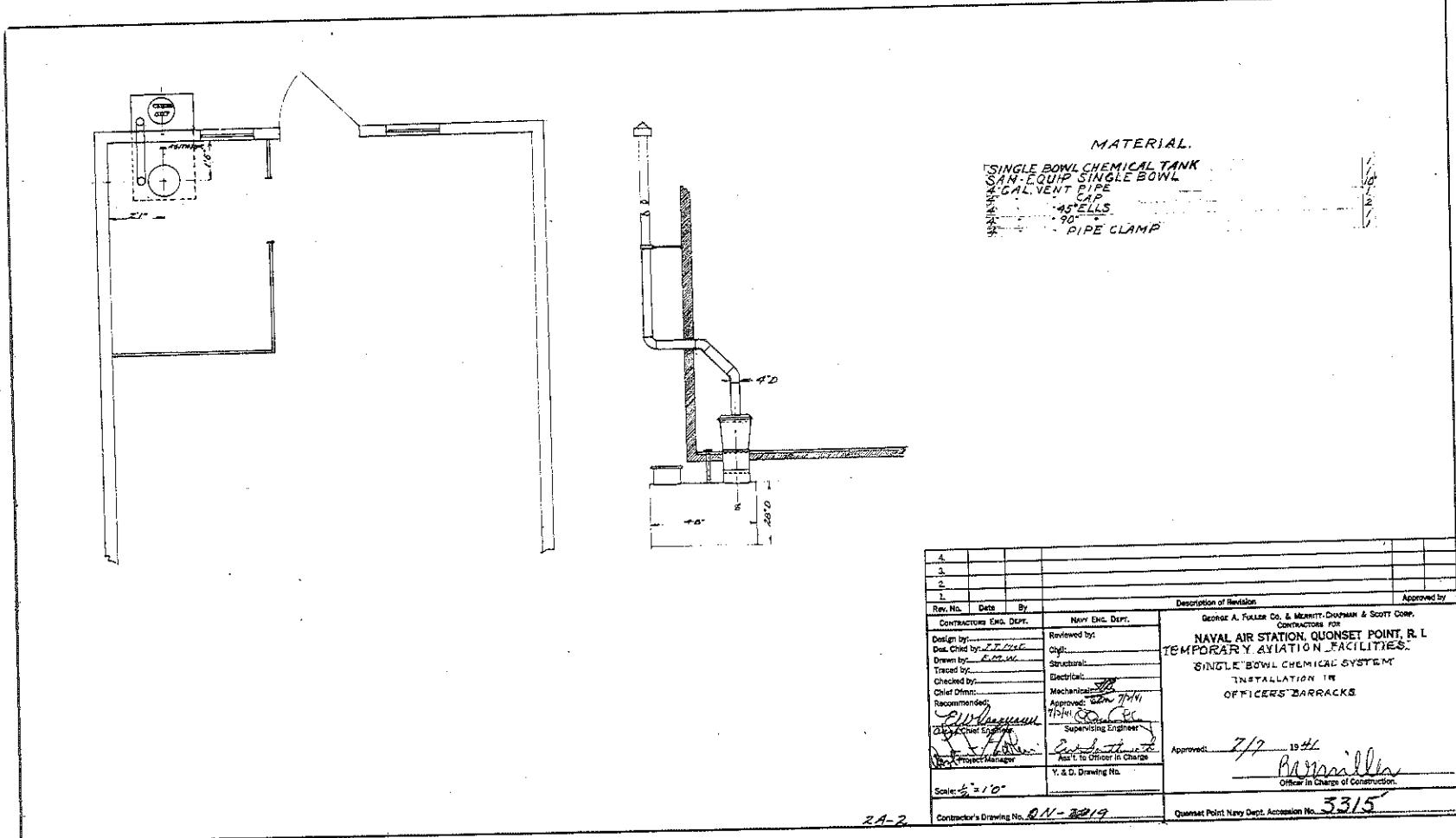
MATERIAL LIST FOR PARTITIONS - PER HUT

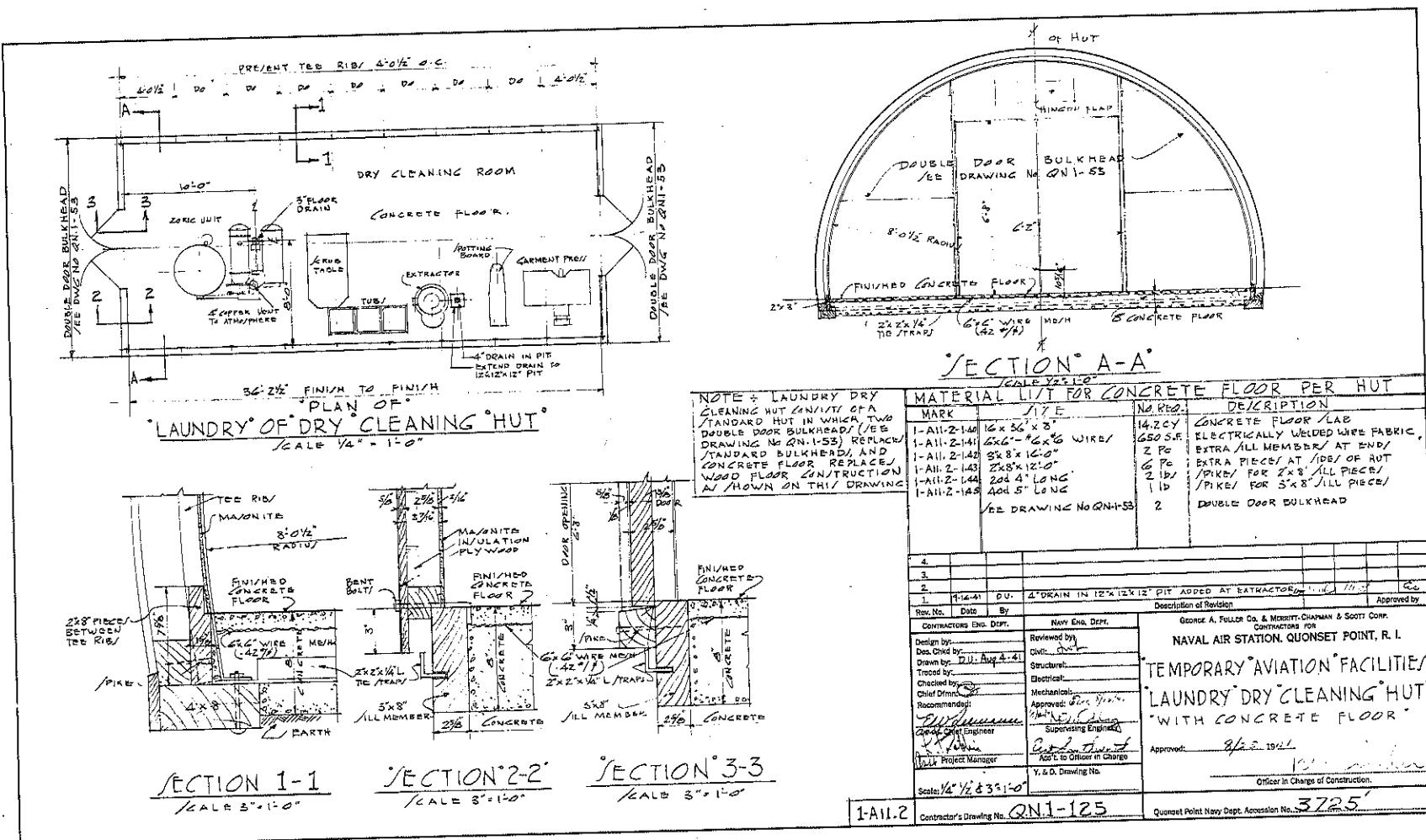
MARK	SIZE	NO/RCO	DESCRIPTION
I-A2-1-1	4'-0" x 6'-0" x 3"	4	STOCK FOR PLYWOOD PARTITION PANELS
I-A2-1-2	2'-0" x 6'-0" x 3"	1	COTTON CUL OF DOOR
I-A2-1-3	2'-4" x 14'-0" x 3"	1	DOOR STILE
I-A2-1-4	3'-0" x 14'-0" x 3"	1	TOP RAIL OF DOOR
I-A2-1-5	3'-0" x 14'-0" x 3"	1	DOOR STOP
I-A2-1-6	3'-0" x 14'-0" x 3"	1	HEAD AROUND DOOR PANEL
I-A2-1-7	2'-0" x 16'-0"	1	DOOR FRAME
I-A2-1-8	3'-0" x 16'-0"	4	FRAME OF PARTITION PANELS
I-A2-1-9	3'-0" x 12'-0"	2	" " "
I-A2-1-10	2'-3" x 10'-6"	1	" " "
I-A2-1-11	2'-3" x 6'-0"	1	" " "
I-A2-1-12	10'-0" x 36'-0" x 3"	1	H. H. ANGLE CLIP FASTENERS
I-A2-1-13	10'-0" x 36'-0" x 3"	1	H. H. FLAT & DENT CLIP FASTENERS
I-A2-1-14	+10'-0" x 10'-0"	100	R.H. SCREWS FOR CLIP FASTENING
I-A2-1-15	+14'-0" x 10'-0"	6	F.H. SCREWS FOR DOOR FRAME FASTENING
I-A2-1-16	360	4	R.H. STOVE BOLTS & SQUARE NUTS
I-A2-1-17	48 FINISH	100	NAILS FOR SMOOTH SURFACE FOR PARTITION PANELS
I-A2-1-18	12'-0" LG	100	SMOOTH SURFACE FOR PARTITION PANELS
I-A2-1-19	4'-4"	100	SOLID DOOR CUTTS FOR DOOR
I-A2-1-20	12'-0"	100	LOCK FOR DOOR

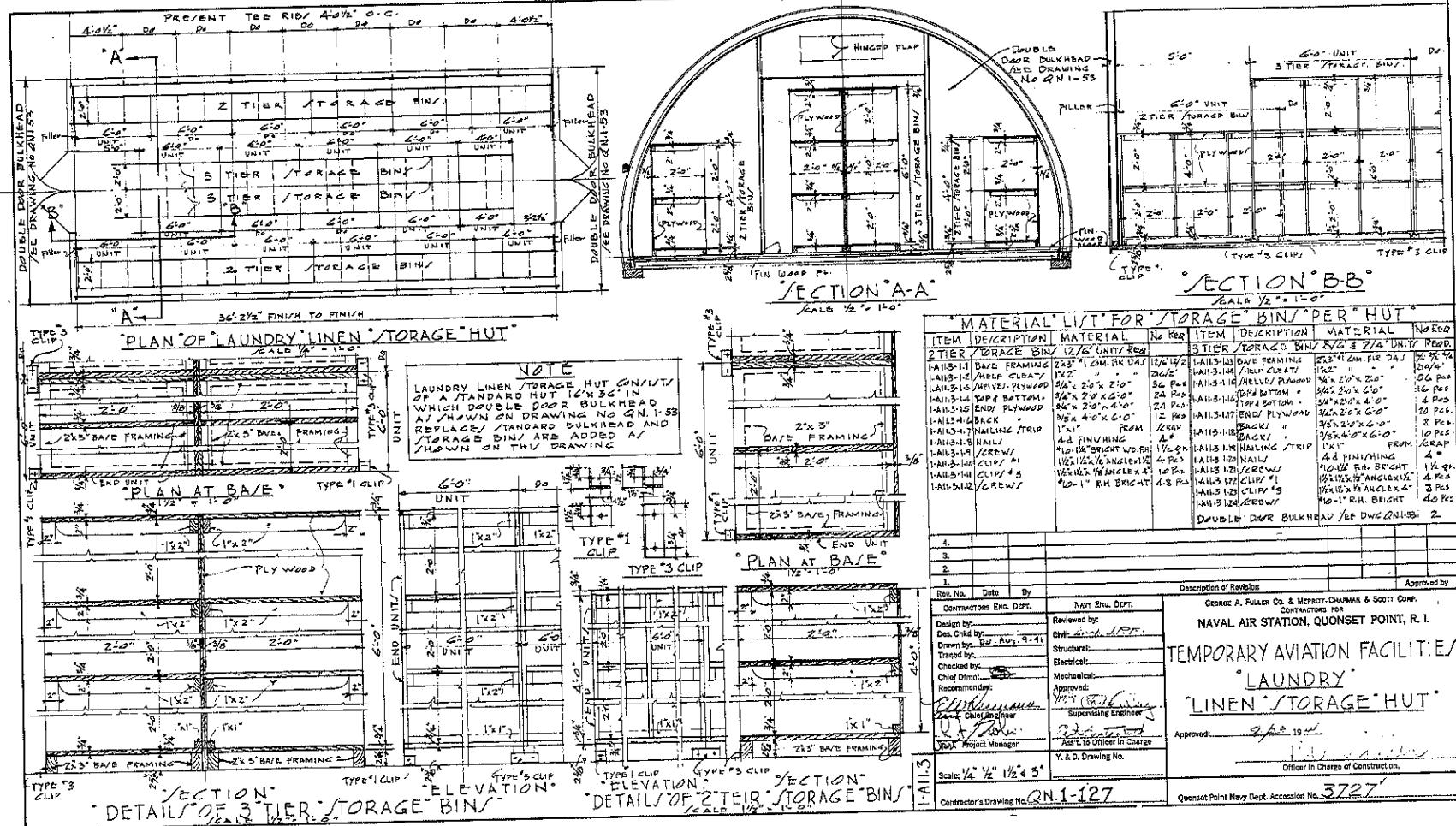
NOTE:
OFFICERS' BARRACKS CONSISTED OF A STANDARD HUT 16'-36' TO WHICH PARTITIONS ARE ADDED AS SHOWN ON THIS DRAWING

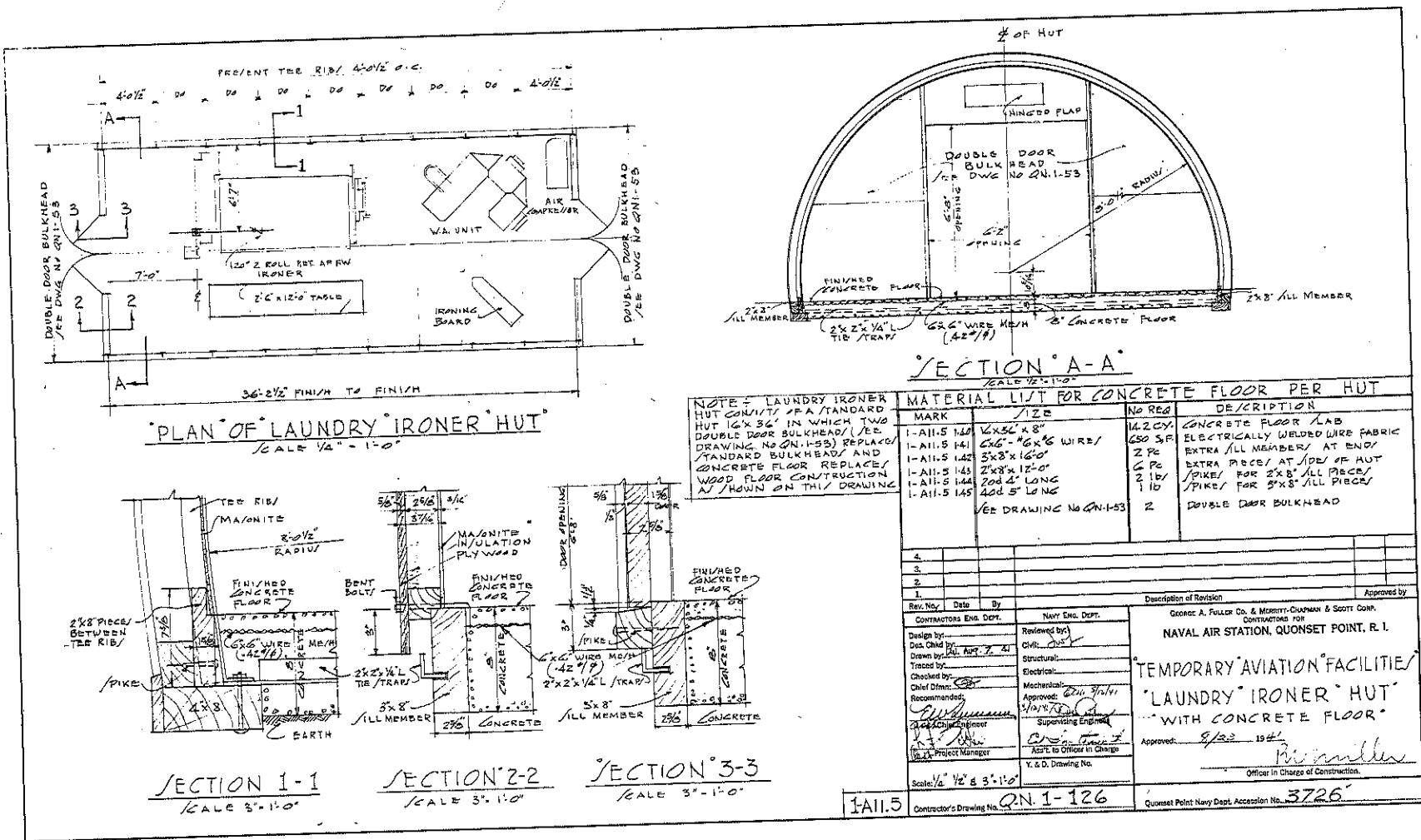


4	5	6	7
2	2-154	OPEN WORD DISSENDERARY OMITTED AND TYPE CLIP SPACED TO 14'-0" & CLIP HOLE SPACING REVISED	
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275			

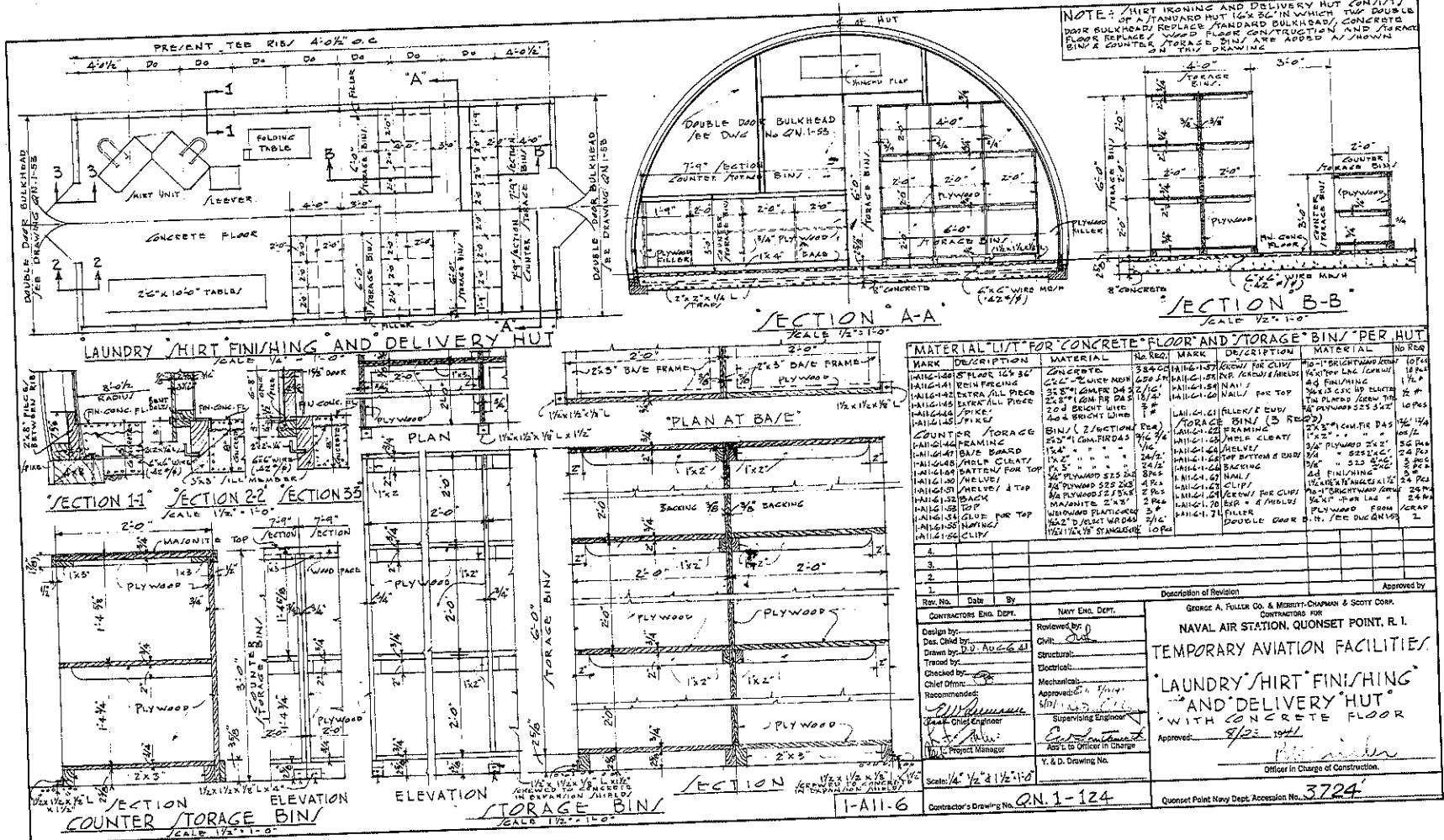




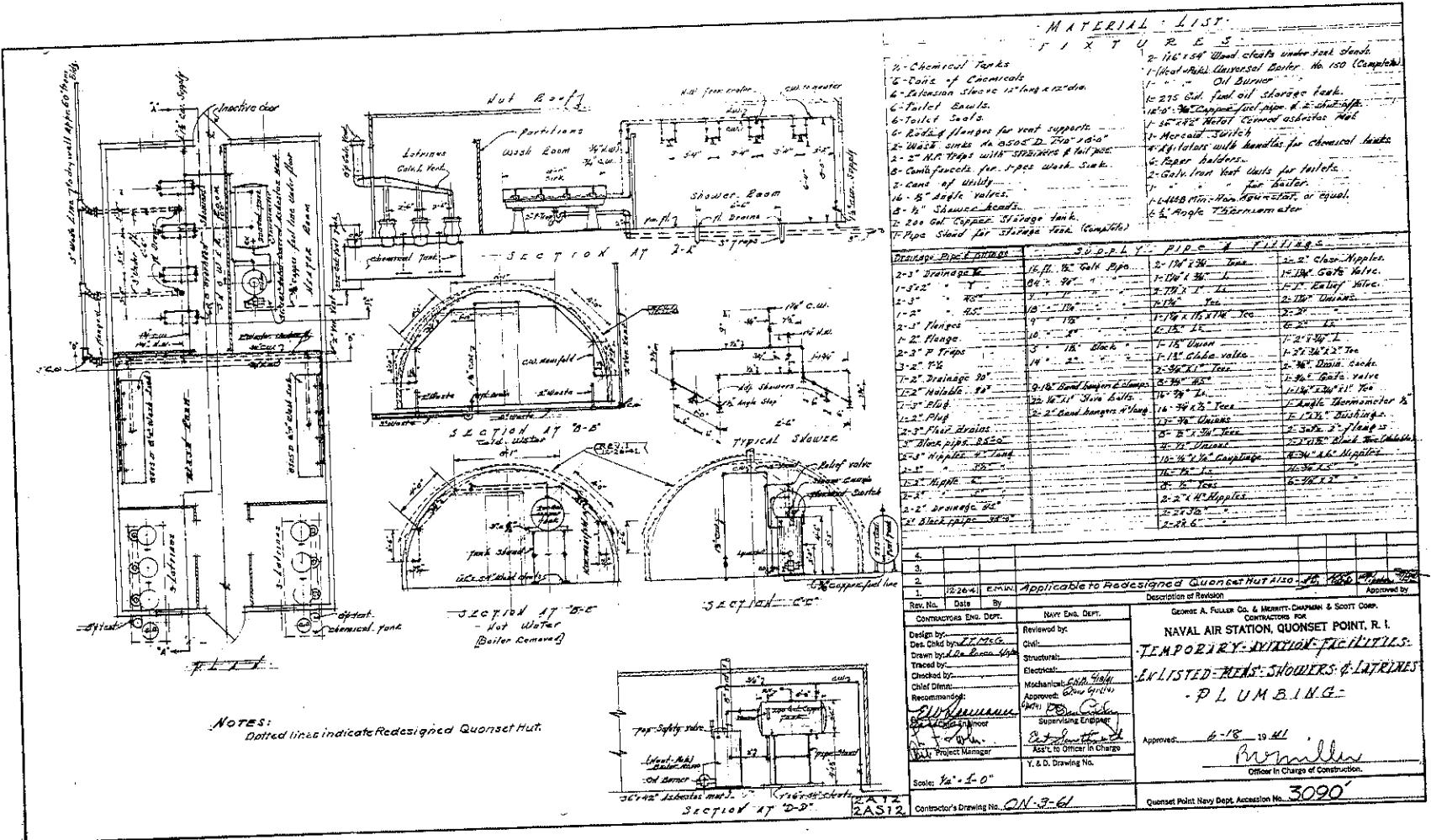




Q.N. 1-126



P.N. 1-124



227-3-471

<p>ELEVATION OF GENERATOR HUT. SCALE 1/2" = 1'-0"</p> <p>NOTE - GENERATOR HUT IS A STANDARD QM 56' HUT WITH SPECIAL DOUBLE DOOR BULKHEAD AS IS SHOWN IN DRAWING # QN 1-53 - & WITH FLOORING OMITTED AND REPLACED BY HARD TAMPED EARTH - ALSO 2x3½ SLEEPERS/15% GUSSES ADDED</p>		<p>SECTION C-C.</p>	<p>SECTION D-D.</p>																				
<p>SECTION A-A. SCALE 3" = 1'-0"</p>		<p>PLAN OF HUT. SCALE 1/8" = 1'-0"</p>	<p>SECTION B-B. SCALE 3" = 1'-0"</p>																				
<p>ISOMETRIC SHOWING CUTTING AREAS OF SLEEPER</p>		<p>PLAN. SCALE 3" = 1'-0"</p>	<p>MATERIAL LIST PER HUT.</p> <table border="1"> <thead> <tr> <th>ITEM</th> <th>SIZE</th> <th>NO X 10</th> <th>DESCRIPTION</th> </tr> </thead> <tbody> <tr> <td>1-A20-1</td> <td>2" x 6" x 16' 0"</td> <td>5</td> <td>LONGITUDINAL BASE CROSS SLEEPERS</td> </tr> <tr> <td>1-A20-2</td> <td>2" x 6" x 16' 0"</td> <td>2</td> <td>BRIGHT NICE SPIKES</td> </tr> <tr> <td>1-A20-3</td> <td>10#</td> <td>VALS</td> <td>" " NAILS</td> </tr> <tr> <td>1-A20-4</td> <td>60#</td> <td>YIN</td> <td>" " NAILS</td> </tr> </tbody> </table>	ITEM	SIZE	NO X 10	DESCRIPTION	1-A20-1	2" x 6" x 16' 0"	5	LONGITUDINAL BASE CROSS SLEEPERS	1-A20-2	2" x 6" x 16' 0"	2	BRIGHT NICE SPIKES	1-A20-3	10#	VALS	" " NAILS	1-A20-4	60#	YIN	" " NAILS
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<p>1. 9-12-41 REM. TITLE CHANGED FROM POWER PLANT TO GENERATOR HUT</p> <p>Approved by Rev. No. Date By CONTRACTORS ENG'D OFFT. NAVY ENG'D OFFT. Design by: Reviewed by: Drawn by: OFFICER IN CHARGE, J. M. KURT checked by: Structural: Chief Draftsman: Electrical: Mechanical: Approved: 7/17/41 7/17/41 Supervising Engineer: Project Manager: Asst. to Officer in Charge Scale: 1/8" = 1'-0"</p>		<p>Approved by Rev. No. Date By CONTRACTORS FOR GEORGE A. FULLER CO. & MERRITT, CHAPMAN & SCOTT CORP. NAVAL AIR STATION, QUONSET POINT, R. I.</p> <p>TEMPORARY INITIATION FACILITIES</p> <p>GENERATOR HUT.</p> <p>Approved: 7-20-1941 J. M. KURT Officer in Charge of Construction.</p> <p>Contractor's Drawing No. QN 1-73</p> <p>Quonset Point Navy Dept. Accession No. 3362</p>																					

QN 1-73

