

U. S. Naval War College,

Newport, Rhode Island,

October 17, 1907.

PROPOSED STANDARD OUTFIT FOR AN ADVANCED BASE. TO BE FURTHER
ELABORATED BY REPRESENTATIVES OF WAR DEPARTMENT AND NAVY DEPARTMENT.

List of Guns Ammunition and Accessories.

17 - 5" guns with pedestal mounts and accessories complete	\$273,870.
17 - 5" gun platforms (see blue-print appended for type of platform and material required).	6,715.
10 - 3" 50 caliber guns with pedestal mounts, and accessories complete.	52,900.
10 - 3" gun platforms (see blue-print appended for type of platform and material required).	2,200.
16 - 6 pdr. or 3 pdr. guns with pedestal mounts and accessories complete.	39,704.
16 platforms for mounting 6 pdr. or 3 pdr. (see blue- print.)	1,504.
20 Machine guns, tripod mount.	10,440.
20 Machine guns, field mount.	
3 - 3" 50 caliber guns on field mount.	
4 - 3" field pieces.	
1275 Common shell, 5"	
425 Shrapnel, 5"	
1000 Common shell, 3", for gun on pedestal mount.	
1000 Shrapnel, 3", for gun on pedestal mount.	
150 Common shell, 3", for gun on field mount.	
450 Shrapnel, 3", for gun on field mount.	
2400 6 pdr. common shell.	
3 Transporting carriages, for 5" guns	5,550.
5 Sets material for construction of magazines, (see blue-print showing method of construction and list of material necessary for each magazine.)	
3 Portable searchlight outfits, complete.	15,000.
10 Barr & Stroud range finders.	

MATERIAL FOR MAGAZINES.

5 for each outfit.

(All possible advantage should be taken of Natural Shelter in locating magazines, so that least work and material may be necessary.)

	For one Magazine.	Total.
9" x 9" x 20' Ga. Y. Pine, Sleepers	3 pcs.	15 pcs.
9" x 9" x 22' " " " Sills	2 "	10 "
9" x 9" x 20' " " " Sills	2 "	10 "
2" x 12" x 20' " " " Joists	8 "	40 "
6" x 6" x 8' " " " Posts	3 "	15 "
B.M. G.Y.P. Flooring, 7/8" th. 3 1/2" face T & G	500 ft	2500 ft.
B.M. 2" x 6" x 16' 0" Y.P.	360 ft	1800 ft.
12" Strap Hinges	1 Pair	5 Pairs
10" Hasp and Staple	1	5
Tar Paper, 3 Ply	10 Squares	50 Squares
2d. Steel Wire Nails	25 lbs.	125 lbs.
6d. " " "	100 lbs	500 lbs.
8d. " " "	50 lbs.	250 lbs.
Belts 5/8" diam. x 9" long with nut	8	40
Paint, color as desired.	6 Gallons	30 Gallons

5 Sets material for construction of derricks, each set containing the following.

	1 set	5 sets
Pine timbers; iron strapped heads, and heels: each fitted with a 2" iron bolt hole one foot from the head, and a lashing score 4" from bottom; heels rounded to fit dish of shoes: ... 30' x 10" x 10", 1700 lbs	2	10
Oak Shoes, dished to receive heels of shear legs and fitted with four 2" eye-bolts, one at each corner... 2' x 2' x 8"	2	10
Posts - pine; round; 8" diam; 6' long	3	15
Box containing 1 2" bolt, 22" long 1 nut for bolt 2 plate washers, 5" diam.	1 box	5 boxes

	1 set	5 sets.
Box containing 2 wire guys of 2" galvanized wire, each 100 feet long, and fitted with eye at one end and hook at the other	1 box	5 boxes.
Box containing 20 fathoms 2" Manila 3 4" double straps 3 fathoms long. 30 fathoms 3" Manila	1 box	5 boxes.
Box containing 2 2" double purchases, 20 fathoms	1 box	5 boxes
Box containing 2 2" double purchases, 20 fathoms	1 box	5 boxes
Box containing 1 4" double purchases, 40 fathoms	1 box	5 boxes
Stakes, 4' x 5" x 5", with undercut heads, 5" x 6".	8	40
Snatch block, 4" swallow	1	5

Boom Defense.

2 miles of boom defense \$ 26,000

The above boom defense requires the following articles:

Automobile Torpedo Outfit.

2 scows,

2 launching tubes,

8 torpedoes,

Air compressor and accessories, complete, as follows:

Two scows, each 15' x 10' x 2' and weighing 3,360 lbs. These Scows are decked over, their stiffening frames are 3/16" L they have a stiff girder athwartships and stiffening circle on which to place the torpedo tube. A movable chock with turnbuckle lashings should be fitted over this stiffening girder, to be used as a saddle on which to transport a gun from ship to shore the

two scows being used together for this purpose. This check will then be removed, leaving the circle free for the

Communications.

- 10 Heliographs,
- 10 Acetylene signal lamps,
- 30 Binoculars,
- 10 Telescopes,
- 2 Sets Navy signal flags,
- 20 Sets wig wag signal flags,
- 20 Very's signal outfits,
- 20 Portable field telephones,
- 20 Field buzzers,
- 80 miles telephone wire,
- 400 telephone insulations,
- 20 miles telephone submarine cable,
- 2 Field telephone 10-drop exchanges,
- 20 Telephone repair kits,
- 3000 Sand bags.
- 1 Wireless telegraph outfit, for shore installation.

Army mines.

Five groups of 19 mines and accessories.

	For one group	for 5 grps.
Mine cases and caps	19	95
Compound plugs complete, with glands, brass washers, rubber packings and lead gaskets.	19	95
Transformers with circuit closers attached	19	95
Collars, Turks head, small.	38	190
Shackles with extra pins.	38	190
Anchors, 50 lbs.	5	25
Mine anchors	19	95

	for 1 group	for 5 groups
Necessary mooring rope,		
Thimbles for mooring rope	38	190
Clamps for mooring rope.	76	380
3" Manila or $\frac{3}{8}$ " galvanized wire rope	3000 ft.	15000 ft.
Measuring line, $\frac{1}{8}$ ", on measuring drum, marked at 500 and 1000 feet	1200 ft.	6000 ft.
Large Buoy	1	5
Marking Buoys, (Beer kegs best)	5	25
$\frac{1}{2}$ " or $\frac{3}{8}$ " Manila Rope	800 ft.	4000 ft.
Coils of Marline, (100lbs.)	2	10
Junction Box boat anchor	1	5

Tool Box containing:

6 Side Cutting Pliers 6"		
2 Cold Chisels.		
2 Marline Spikes.		
6 Files three cornered 8".		
2 Ball pene hammers.		
2 Tape Measures, 100 feet.		
6 "S" Wrenches.		
2 Monkey Wrenches		
2 Scissors.		
2 Screwdrivers, small.		
6 knives.		
12 Connectors.		
76 Cable Tags.		
2 Button Brushes.		
2 Empty boxes for carrying tools around.	1 box	5 boxes.

For Operating Station.

2 Portable Power out-fits.
1 Operating Panel for each 19 mines
3 Boat telephones with buzzers
2 Motor-generators, 80-110 D.C., 500A.C.
1 A.C. Voltmeter
12 D.P.S.T. Switches
1 Buzzer for each operating panel.
1 Mil-ammeter.

(Miscellaneous Supplies.)

4 Socket Wrenches with levers, for compound plugs.
6 Megaphones, 1 Distribution box, 2 Sounding lines with leads.
4 Turks head collars, large.
100 feet Loading Wire.
100 feet "C" Wire.
100 Brass Jointers
5 lbs. Okonite Tape.
5 lbs. Mansen Tape.
Assorted Wire, (Bell, etc.)
Cotton Waste
Ball Twine
Gasoline Torch
100 Dry Cells

Package Tinfoil
1 lb. Rubber Cement
3 cans Rubberine or Red Lead ground in oil.
1 box Carpenters Tools.
4 vises, for plugs and mooring cables.
Telephone wire.
2 Portable Voltmeters.
2 Circuit Detectors
1 Reel 19 core cable, single conductor.
1 Reel cable, for each group 2.8 miles.
Tarpaulins to cover loaded mines.
a cable cutters.
2 sets Figures, "0-9".
1 Plotting Board 4'x6'
6 Telephones.
4 Signal Flags.

Boats.

1 Large Tug.
1 Small Tug or large Launch.
1 small Launch.
2 Row Boats or small Launches.

Defenses.

5000 Sandbags.

Camp equipment outfit for 1500 men.

Emergency rations 3000.