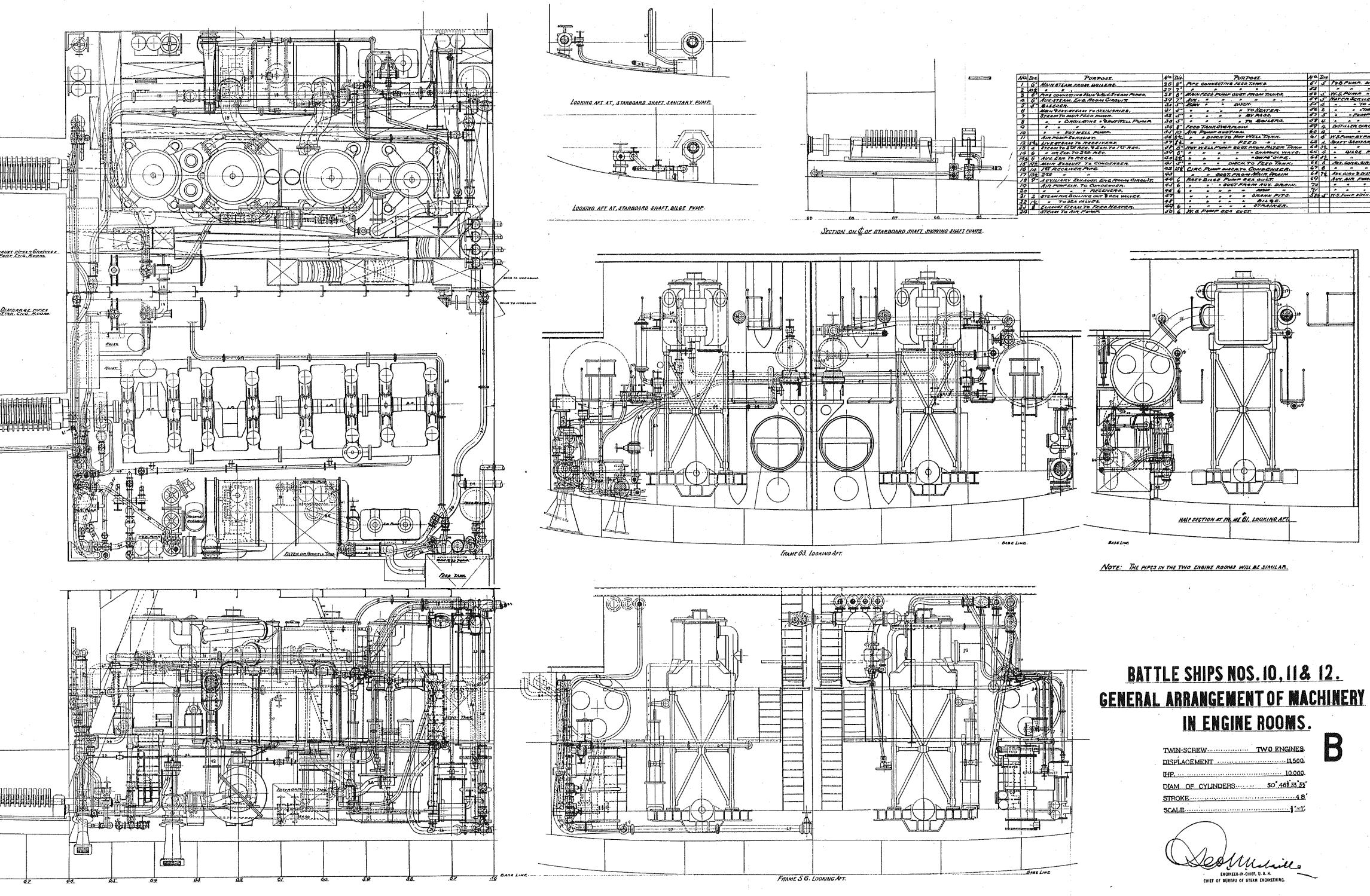
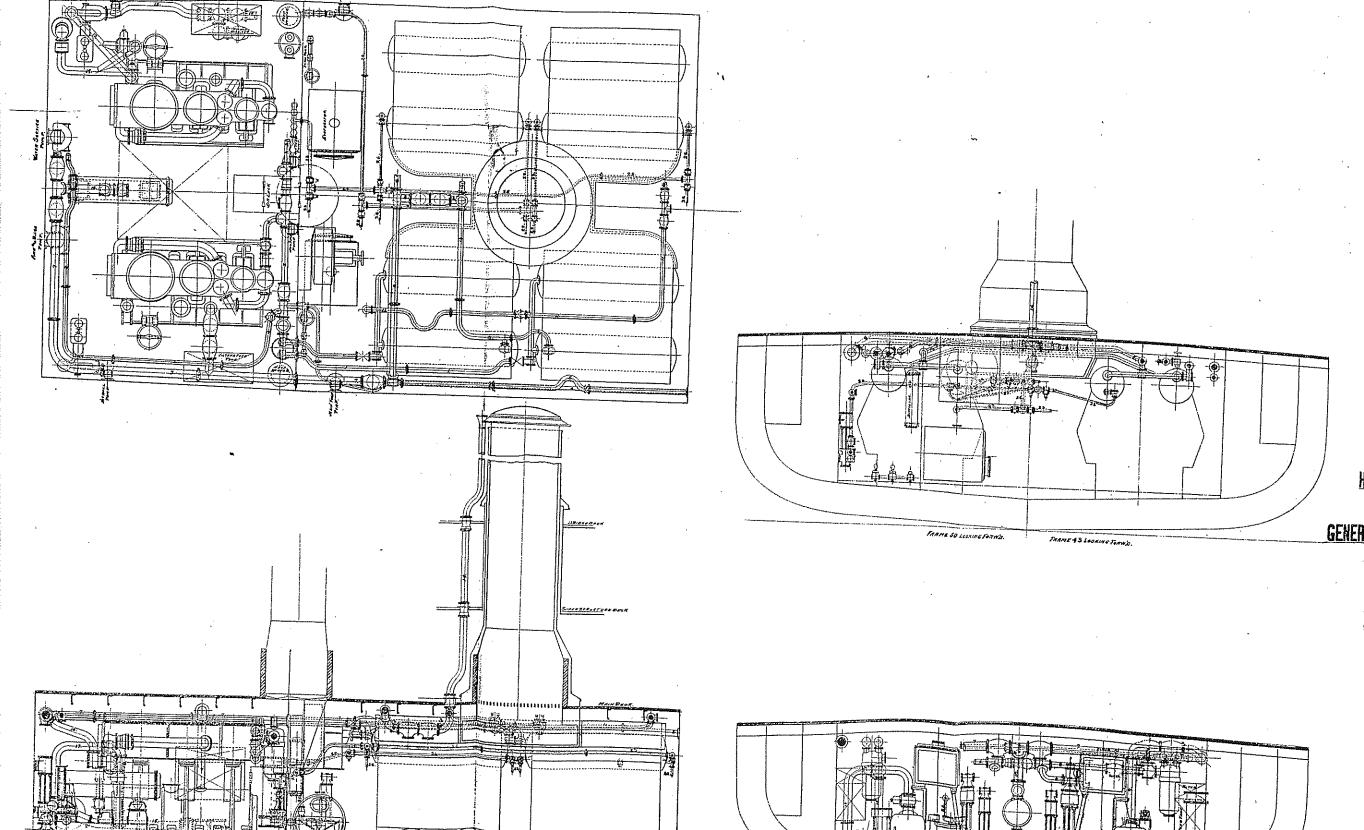
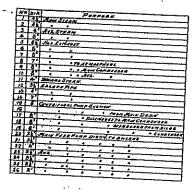


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HARBOR DEFENSE MONITORS NOS. 7, 8,9 & 10.

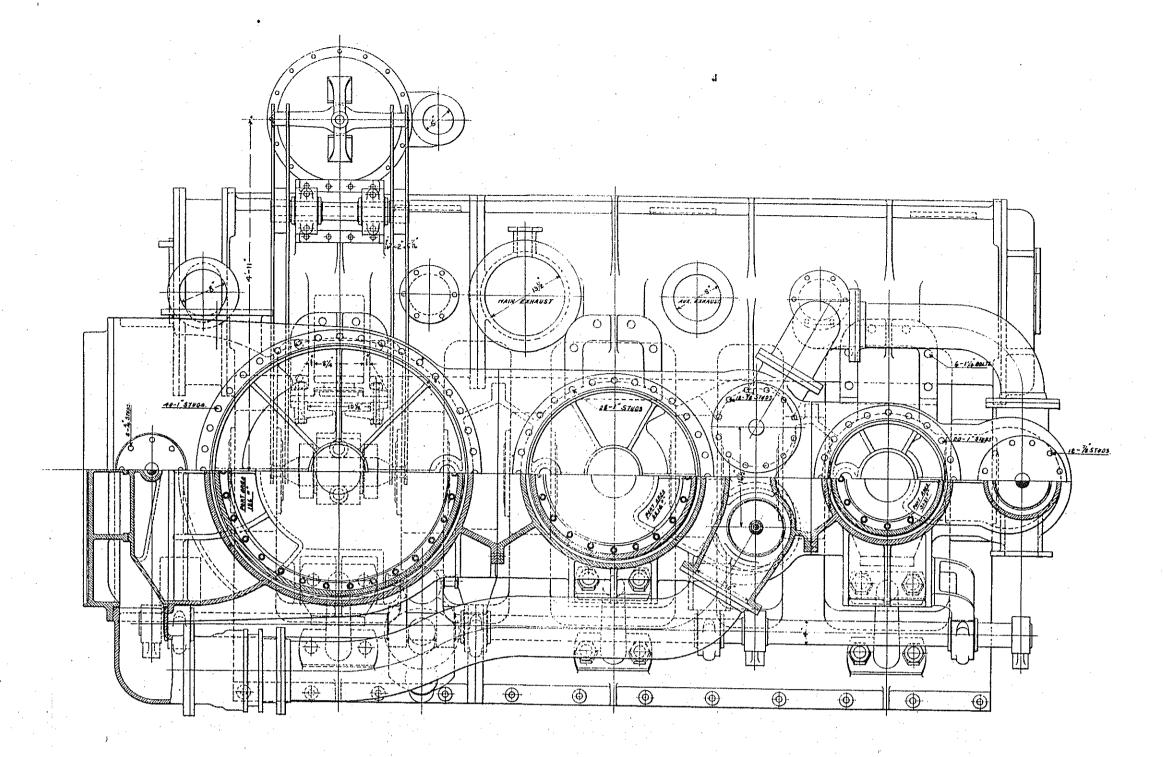
GENERAL ARRANGEMENT OF MACHINERY.

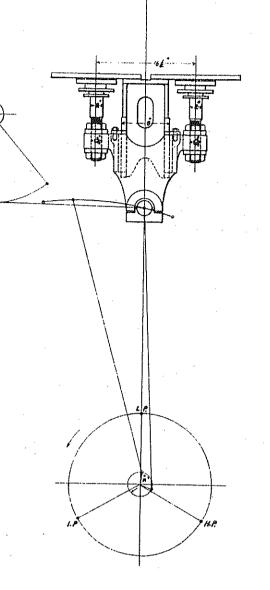
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CHIEF OF BUREAU OF STEAM ENGINEERING

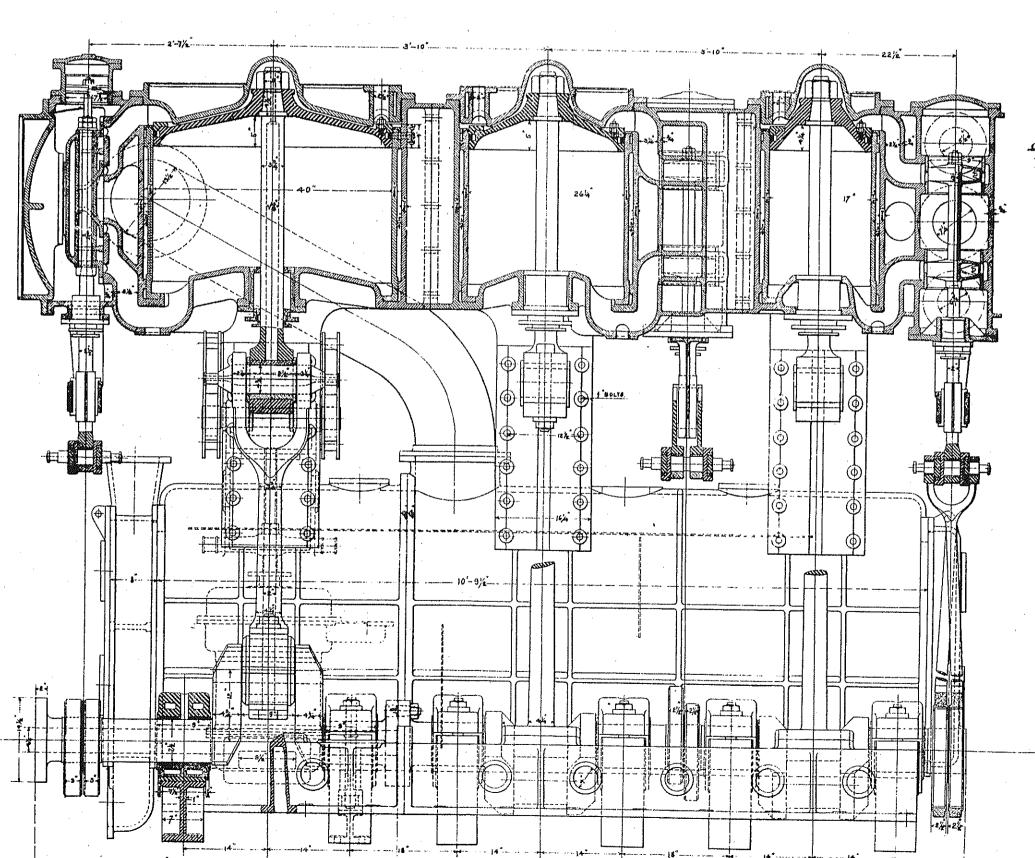
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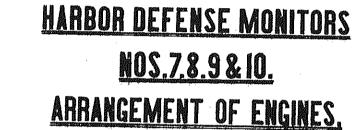


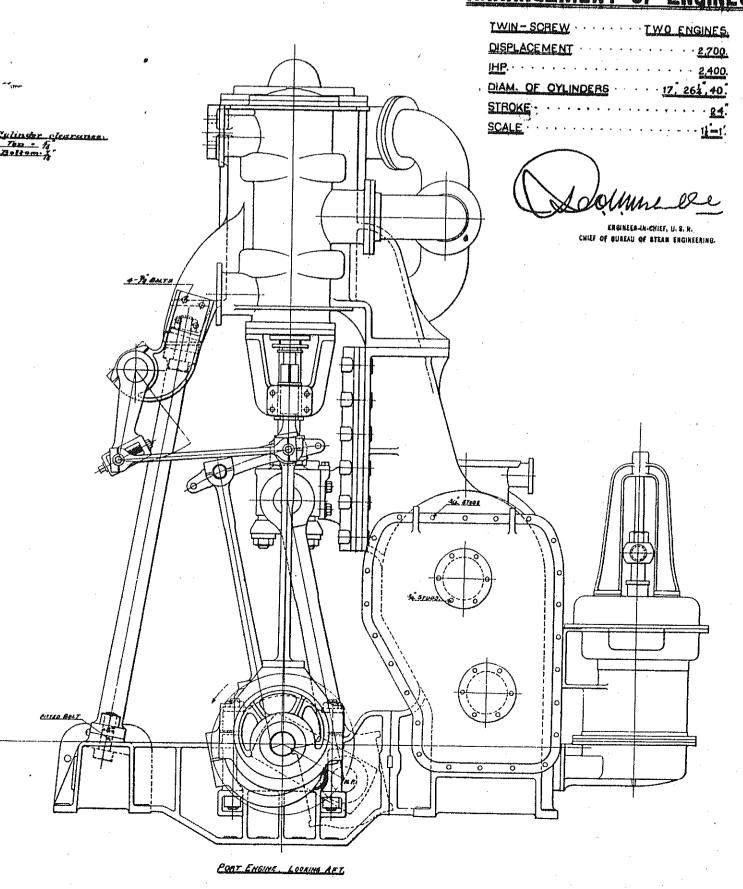


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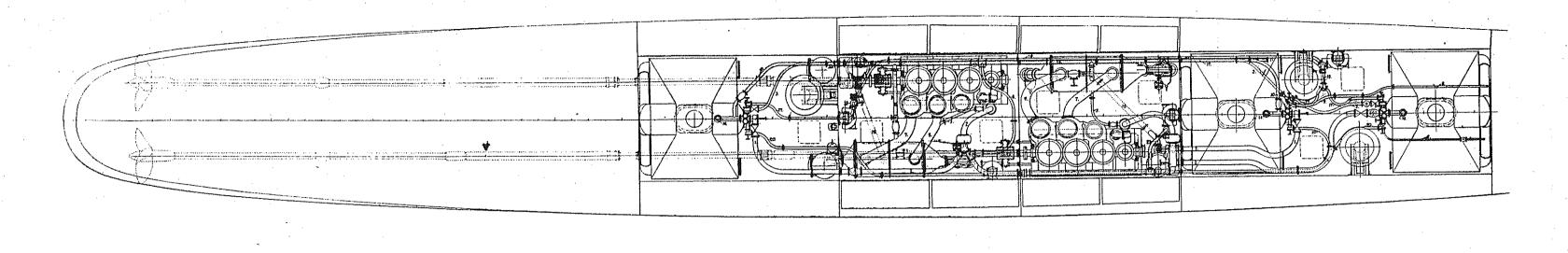
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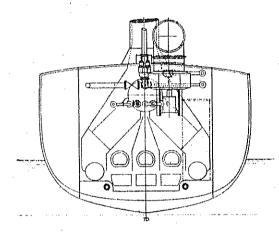


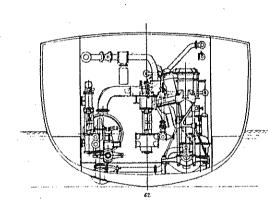


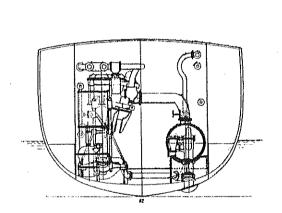


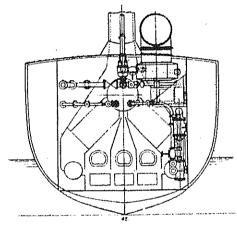
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TORPEDO BOATS NOS. 24-35. GENERAL ARRANGEMENT OF MACHINERY.

DISPLACEMENT 165.

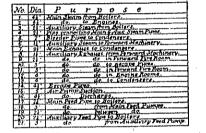
IHP. 3000.

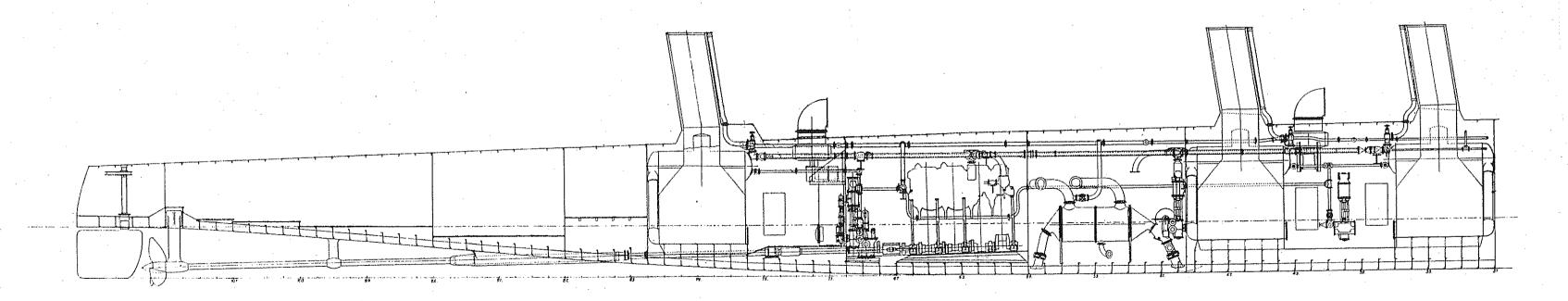
DIAM. OF CYLINDERS 14', 22', 25'; 25';

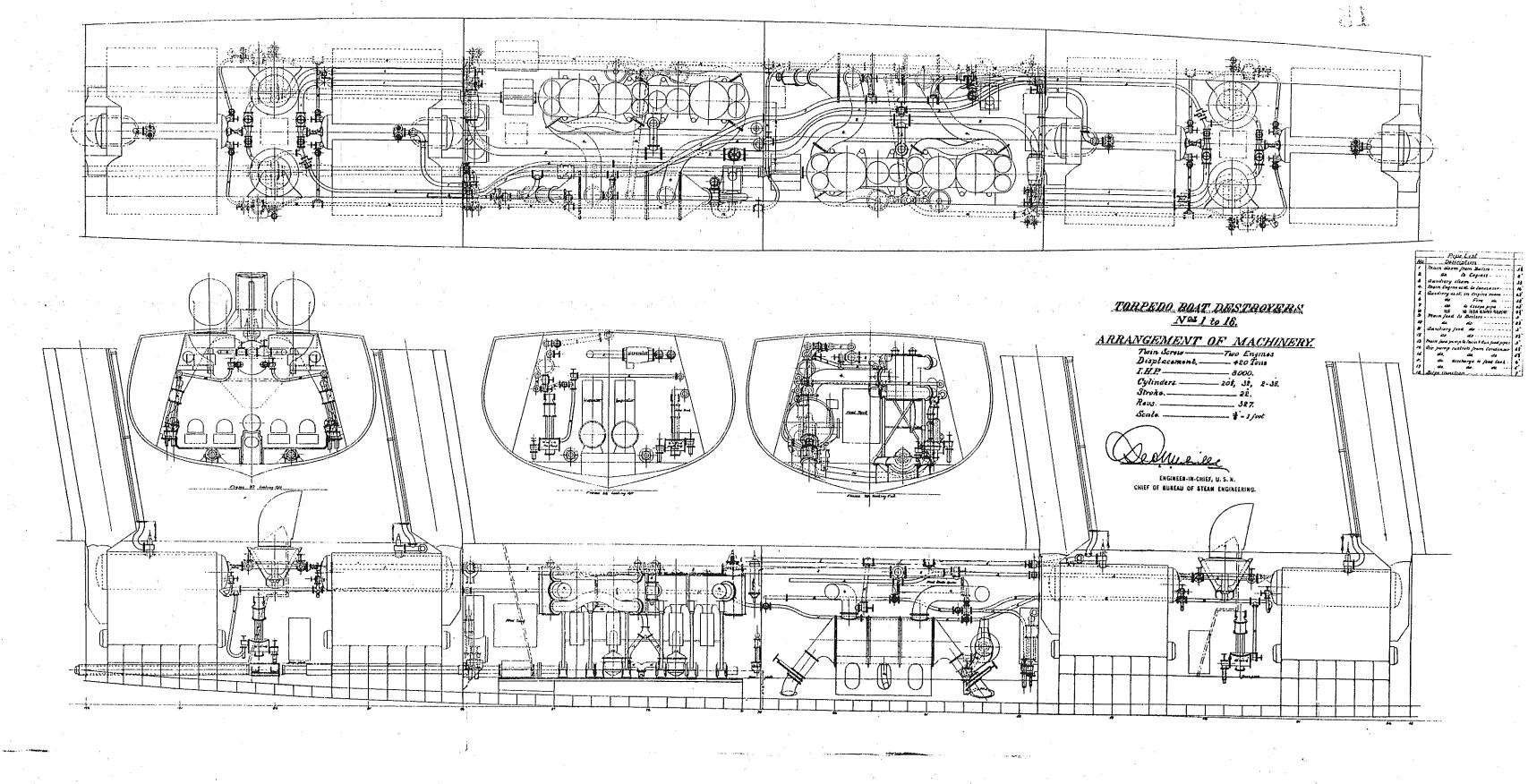
STROKE 18'.

SCALE 1'-1;

ENGINEER-IN-CHIEF, U. S. M.

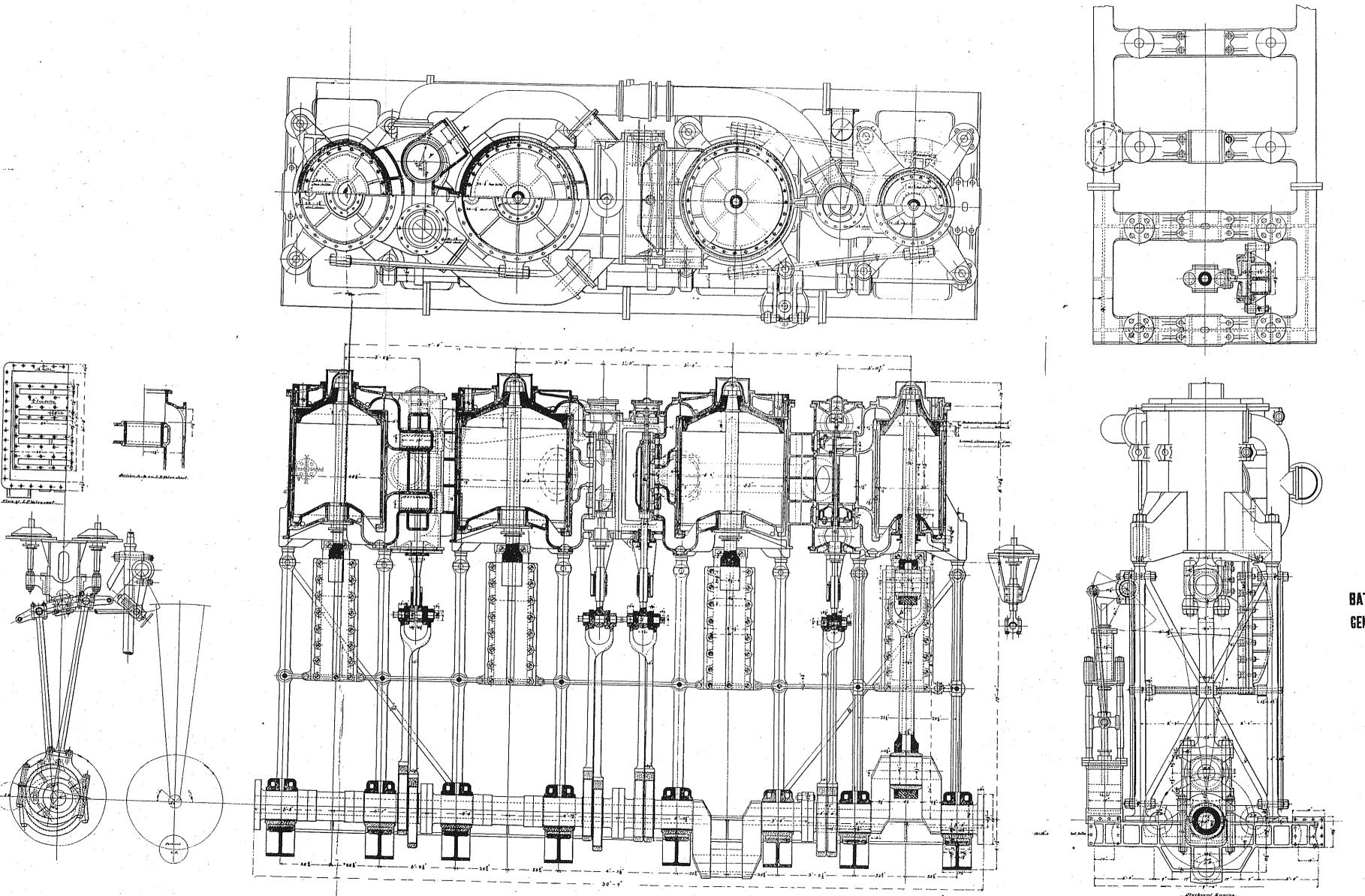






TORPEDO BOAT DESTROYERS Nos 1 to 16. GENERAL ARRANGEMENT OF ENGINES. Twin Sorew Two Engines. Displacement - 420 Tons. كرهم معاف كيد ENGINEER-IN-CHIEF, U. S. N. CHILF OF BUREAU OF BTEAM ENGINEERING. law press Cul, Valing forward.

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BATTLE SHIPS NOS. 10,11& 12.
GENERAL ARRANGEMENT OF ENGINES.

TWIN-8CREW ____ TWO ENGINES:

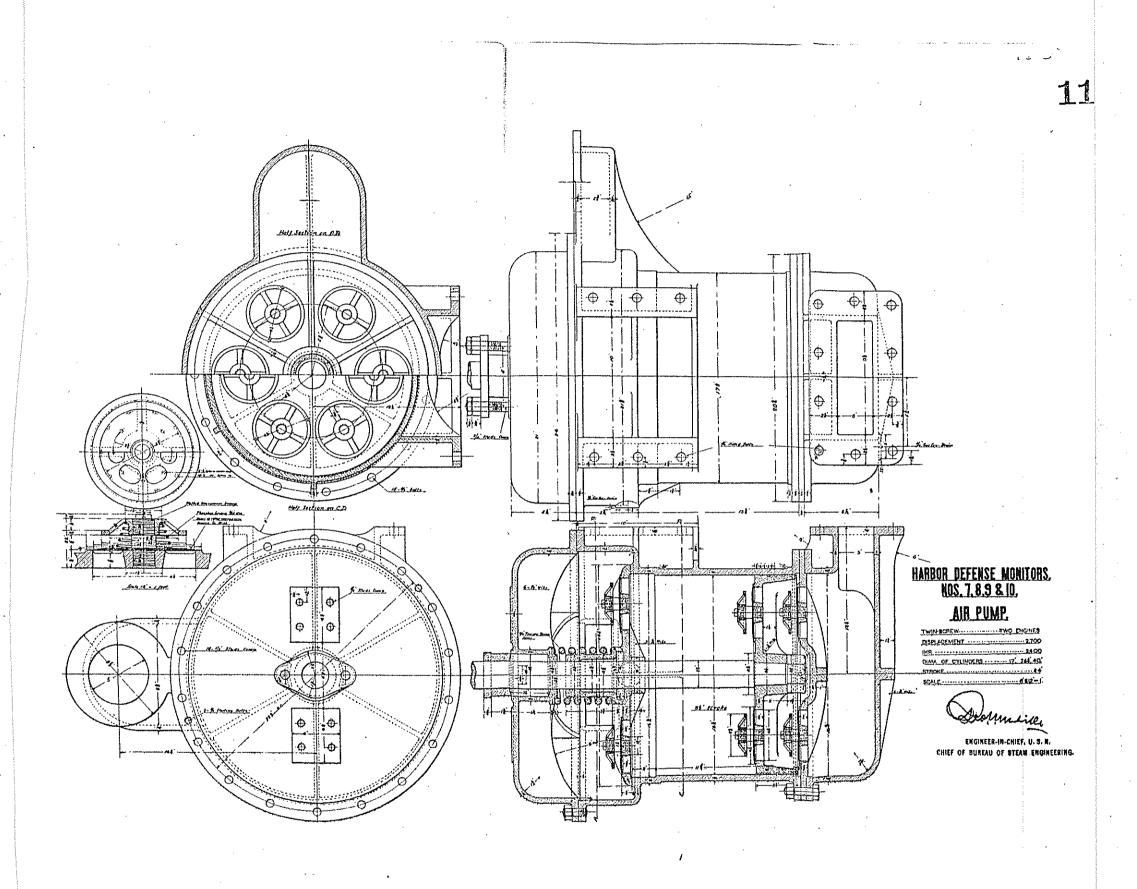
DISPLACEMENT _______ 11500.

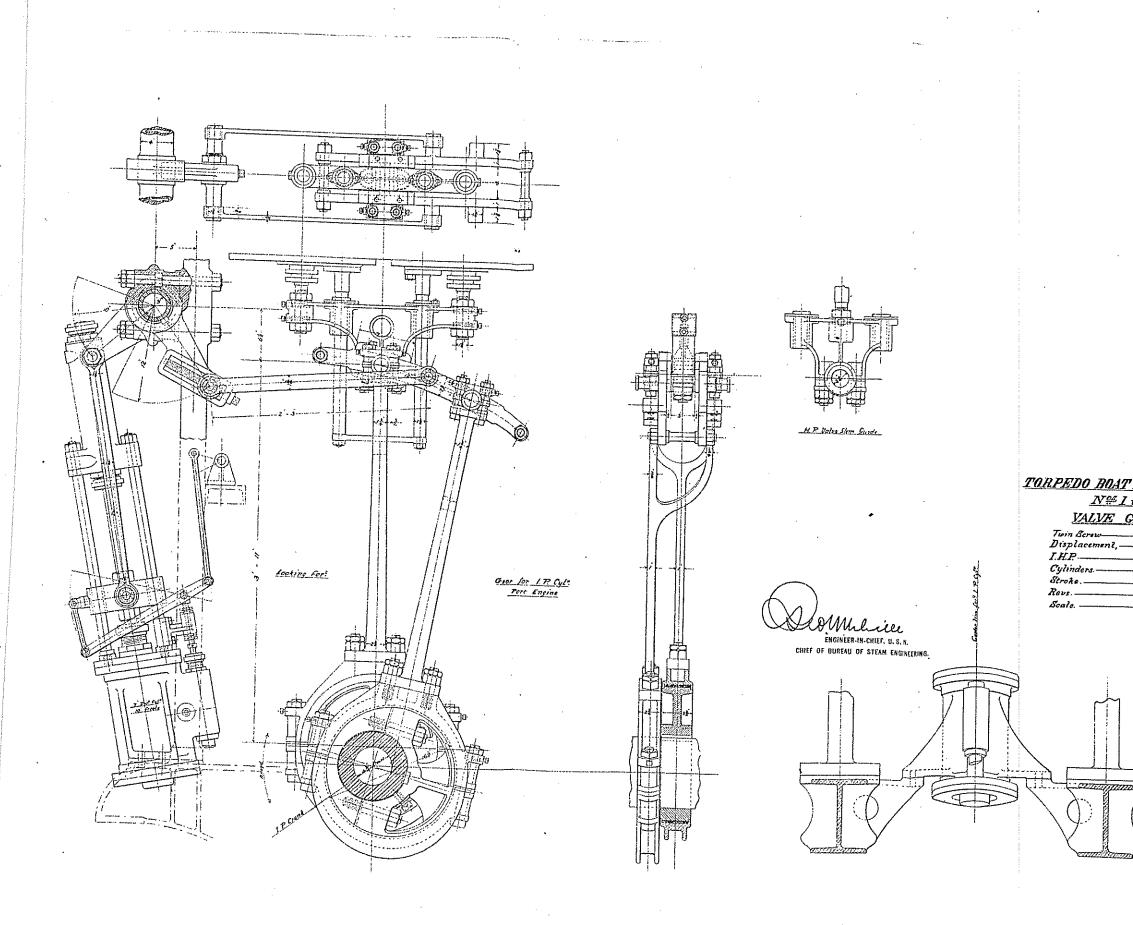
IHP ________ 10000.

DIAM, OF CYLINDERS 30,461,53,55.

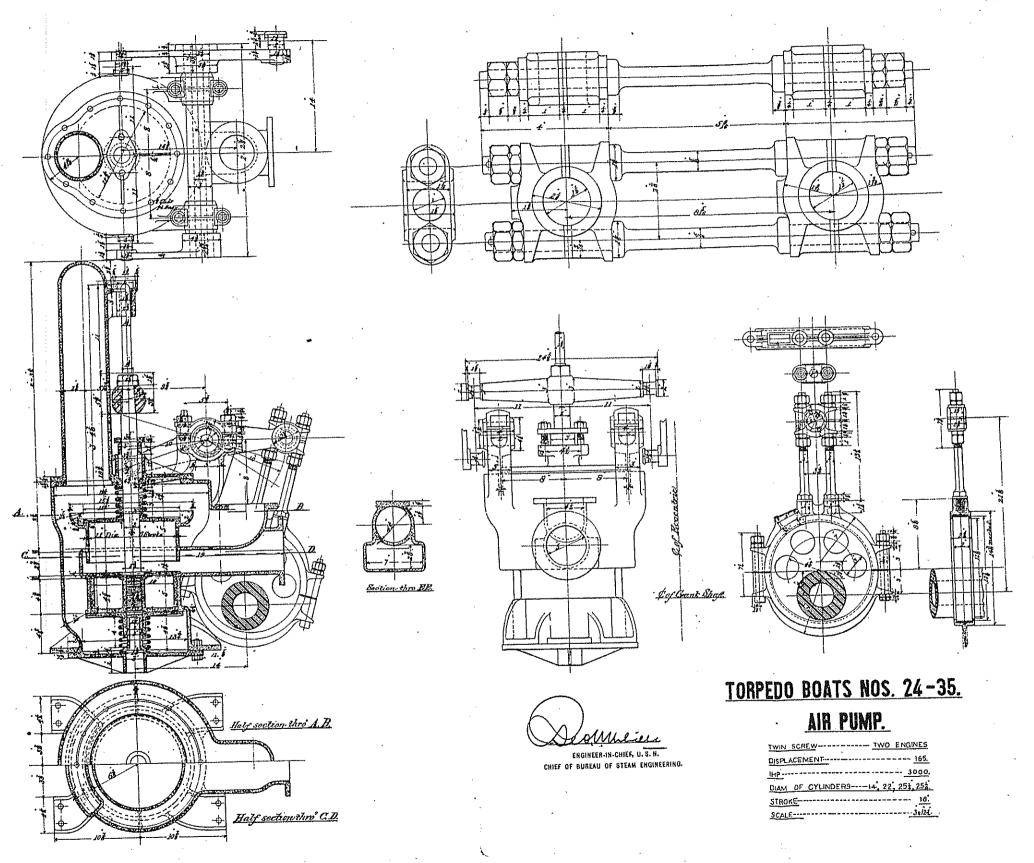
STROKE _______ 48.

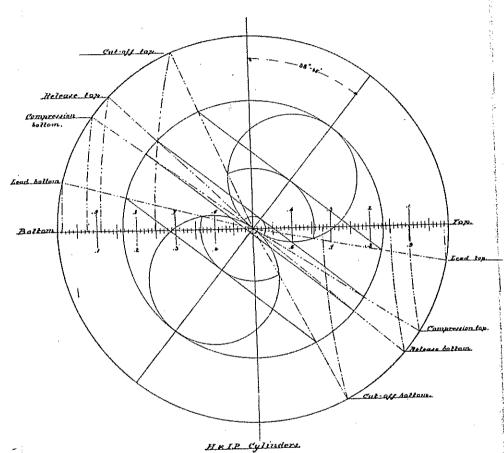


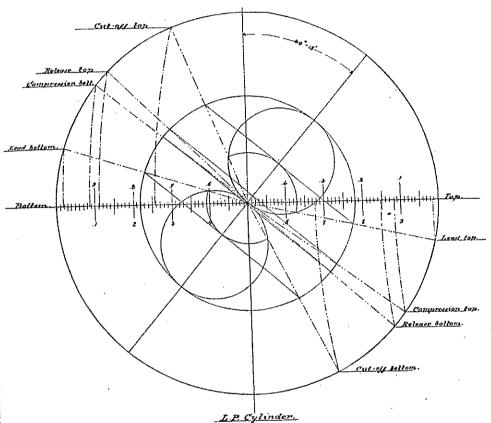




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BATTLE SHIPS NOS.10,11& 12. VALVE DIAGRAMS.

TWIN-SCREW ____ TWO ENGINES.

DISPLACEMENT ____ 11,500.

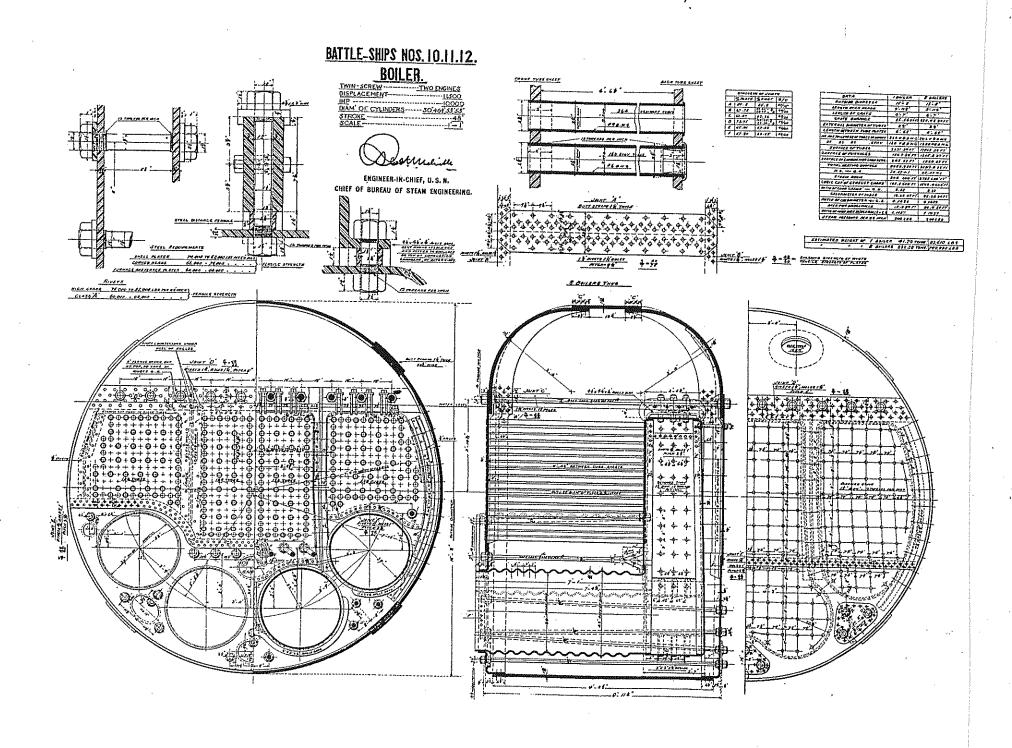
IMP ____ 10000.

DIAM. OF CYLINDERS 30,461,53,53.

STROKE ____ 48.

SCALE ____ 3 & 12-1.

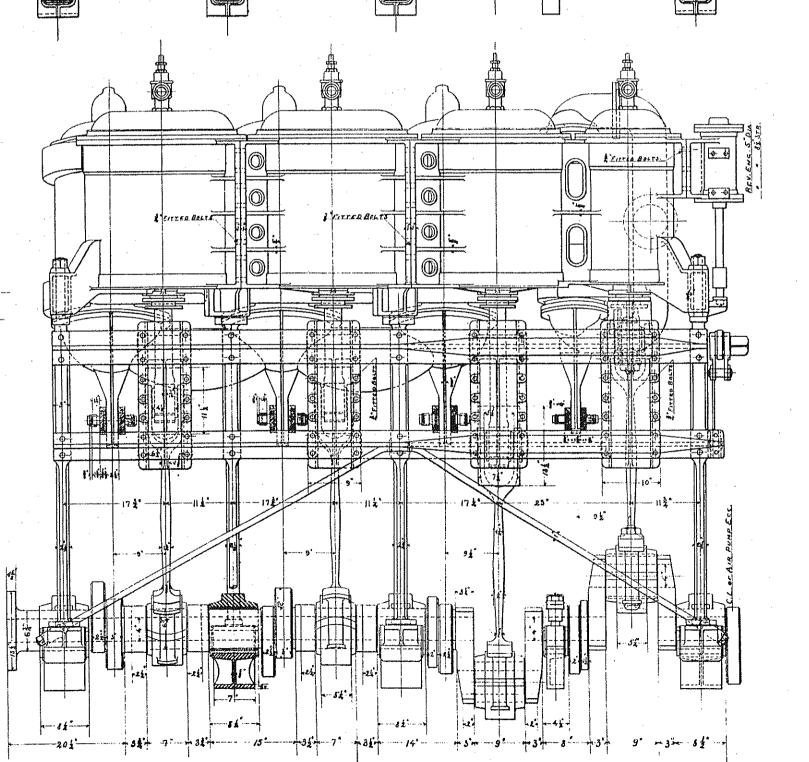
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TORPEDO BOATS NOS. 24-35. GENERAL ARRANGEMENT OF ENGINES.

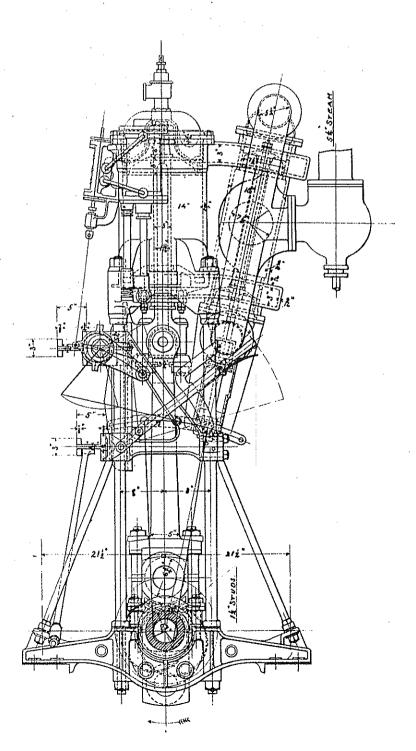
TWIN SCREW	TWO ENGINE			
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DIAM, OF CYLINDERS	14, 22, 251, 25			
STROKE				
SCALE	12"			

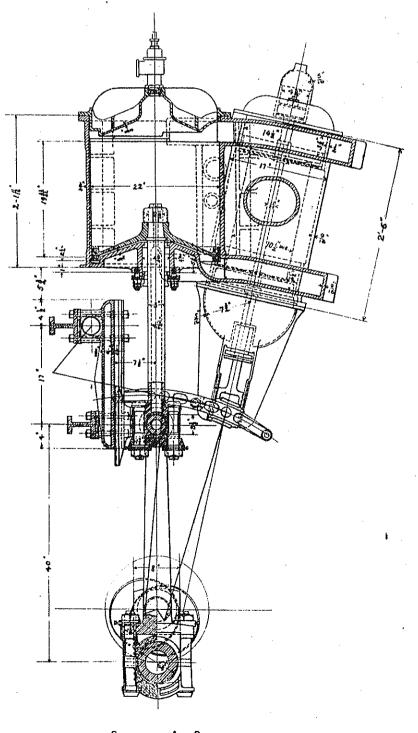




LOOKING FORWARD.

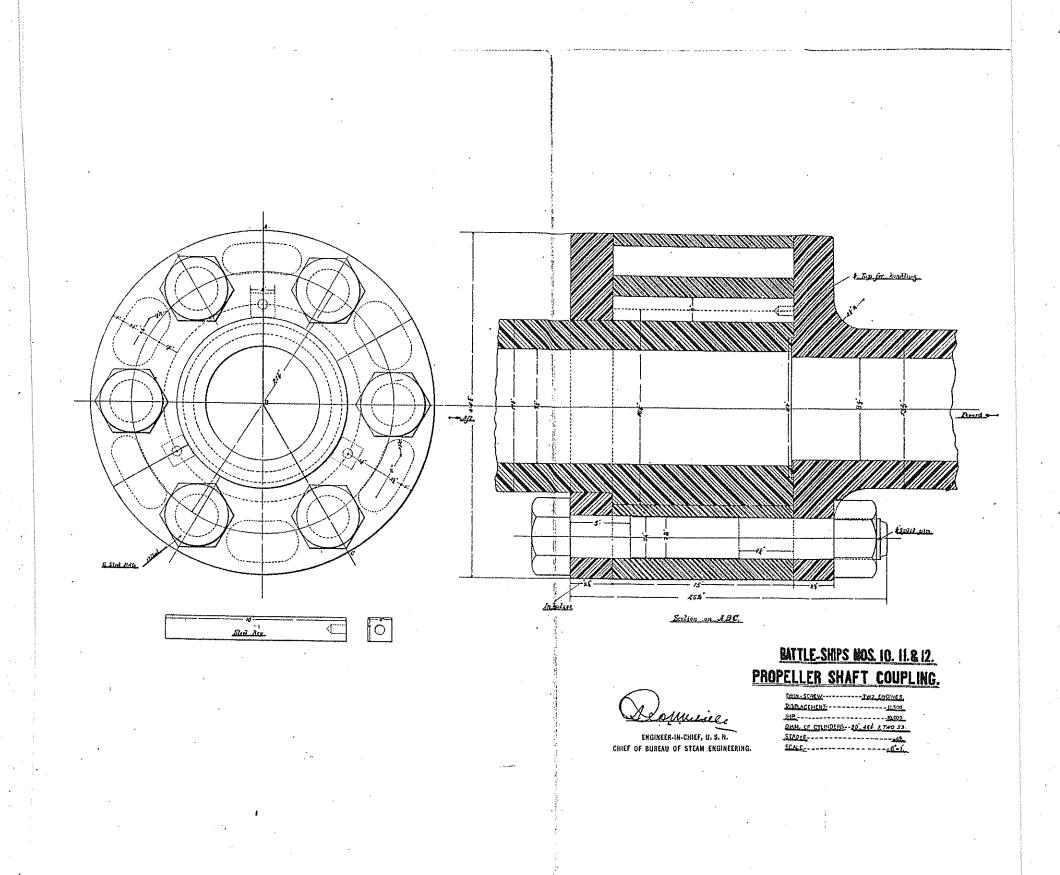
STARBOARD ENGINE.

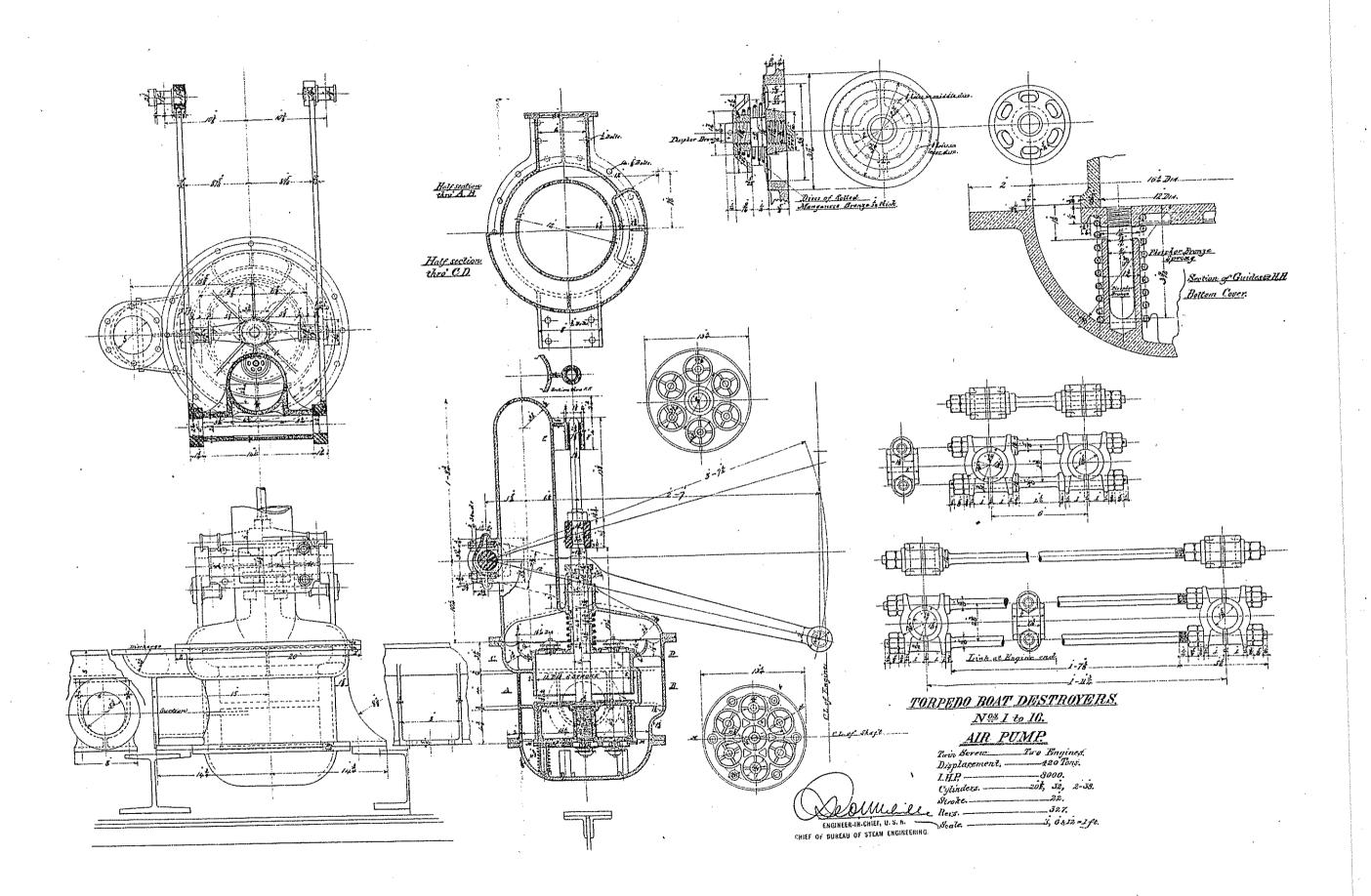


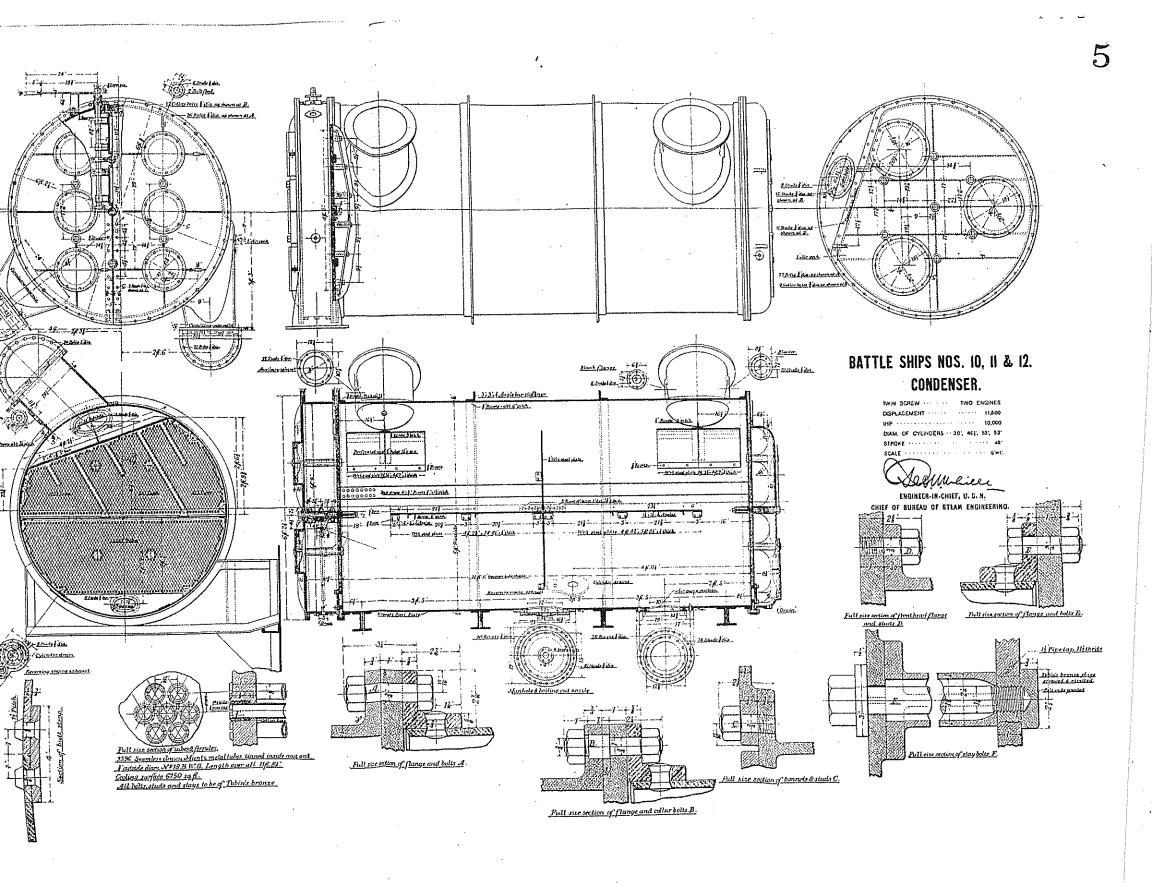


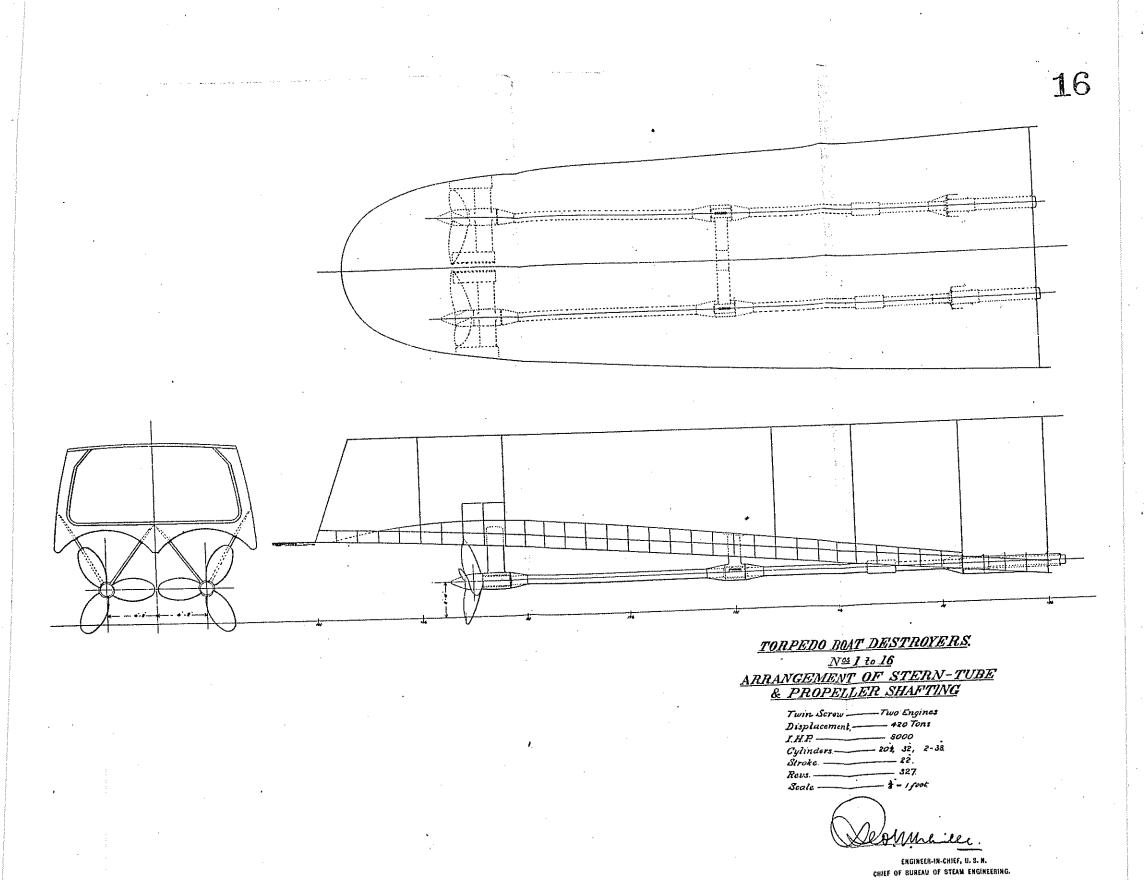
SECTION A - B.

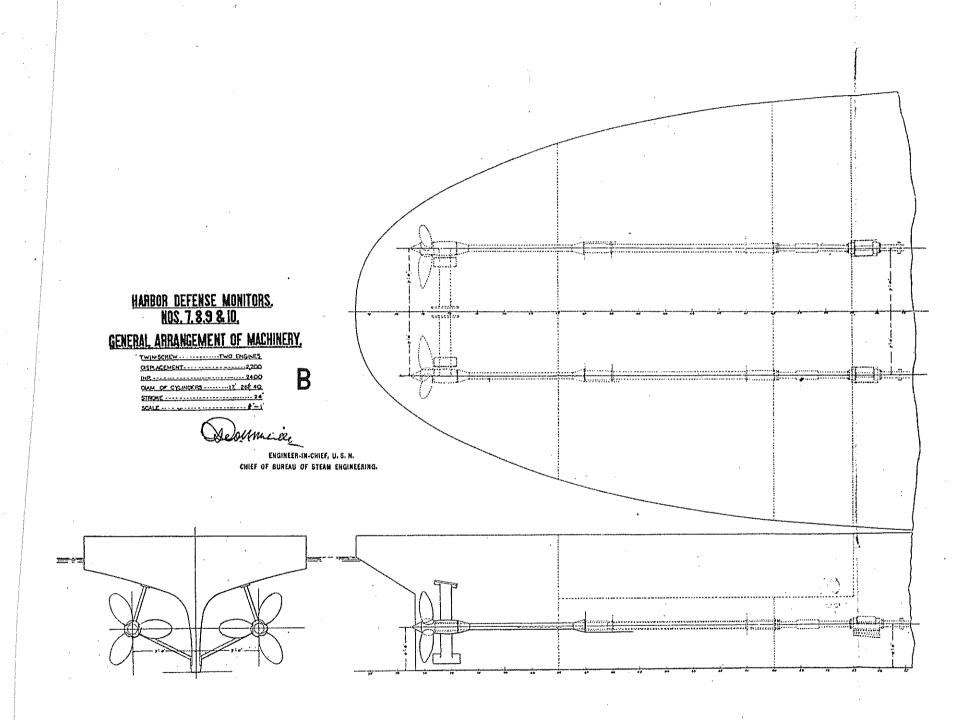
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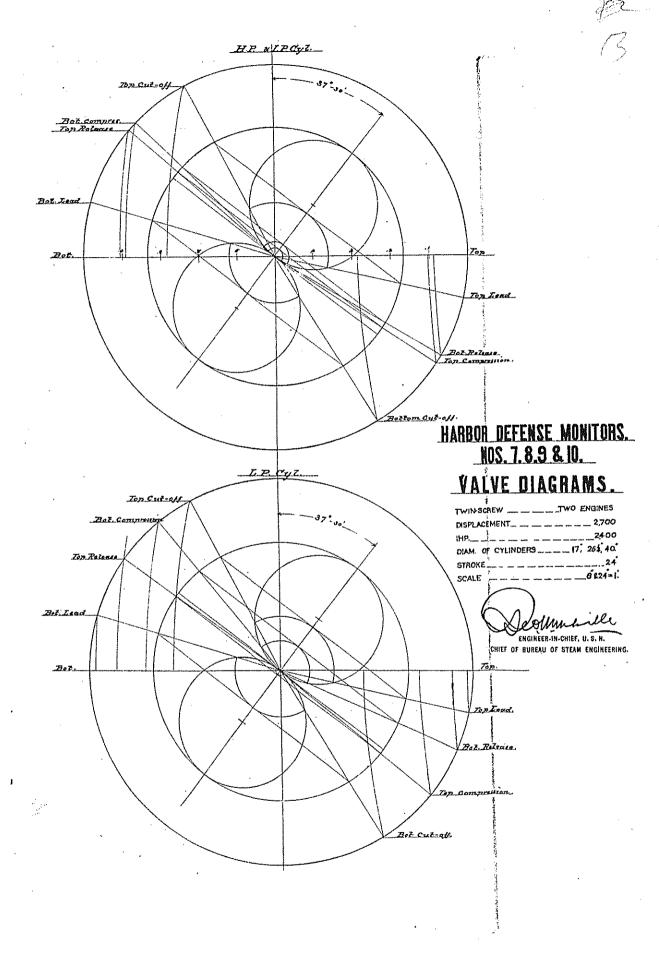




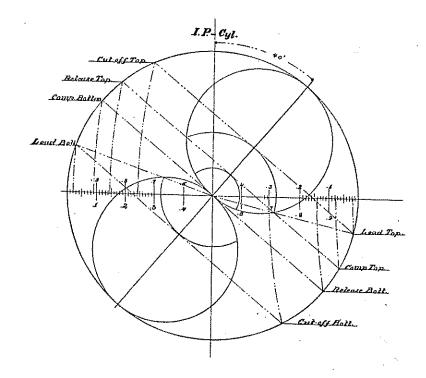


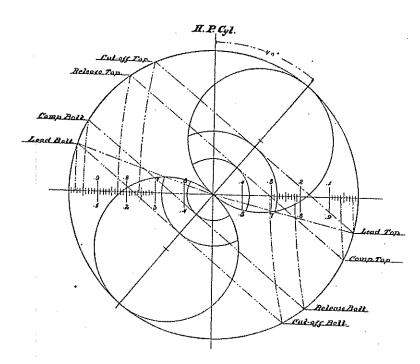


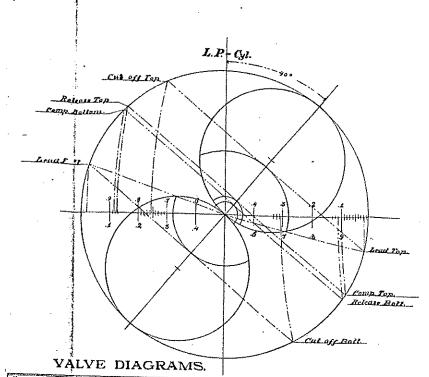
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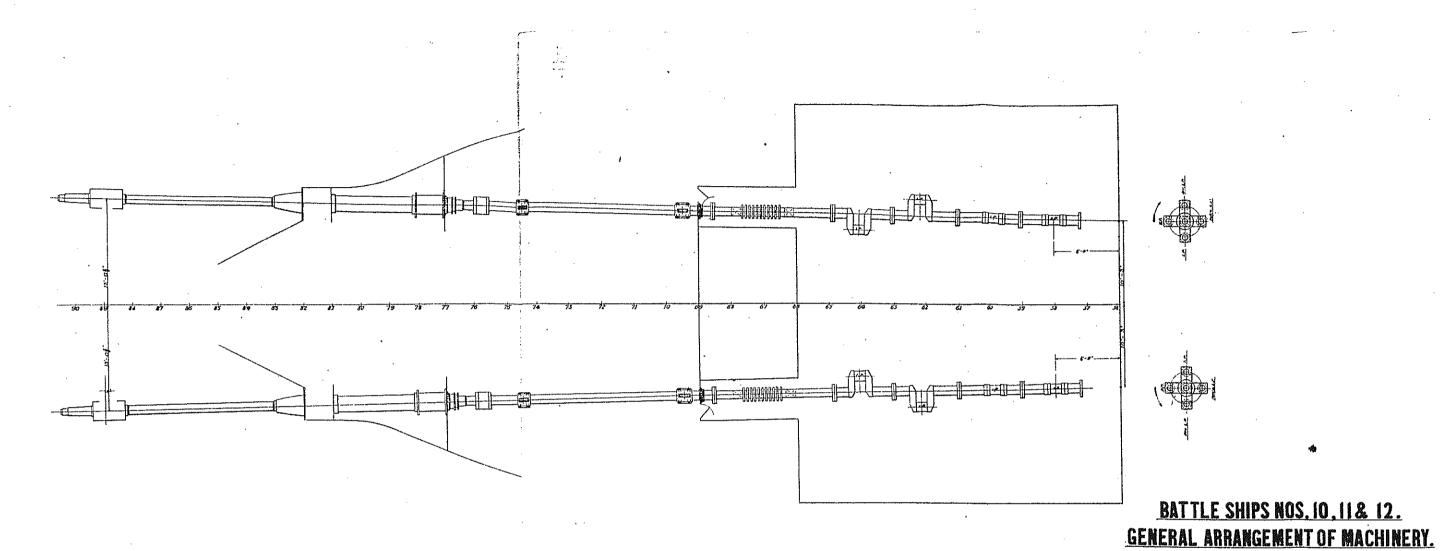
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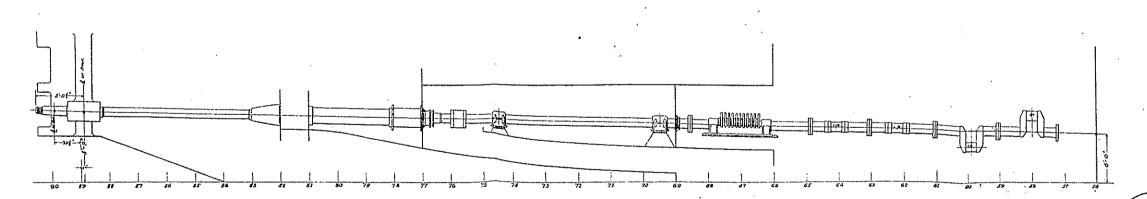
U.S. TORPEDO BOATS NOS. 24 TO 35. VALVE DIAGRAMS.

FOR
HP IP AND L.P ENGINES.

Scale(STILL strue \$1.4)

ENGINEER-IN-CHIEF, U. S. N.





TWIN SCREW TWO ENGINES.

DISPLACEMENT 11,500

HP. 10,000

DIAM. OF CYLINDERS 30,461,53,53

STROKE 46'

SCALE.

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ENGINEER-IN-CHIEF, U.S.N. CHIEF OF BUREAU OF STEAM ENGINEERING.