

Accession No.: 82-72

PROCESSING RECORD
SCRIPPS INSTITUTION OF OCEANOGRAPHY ARCHIVES

Scripps Institution of Oceanography. Instrument Engineering Laboratory

SIO Instrument Engineering Laboratory Drawings, 1945-1969

BULK DATES: 1946-1957

PHYSICAL DESCRIPTION: 455 oversized items, 1 manuscript box (259 4"x6" microfiche)

DESCRIPTION: When the Instrument Engineering Lab was organized in 1946, a new system of identifying and storing drawings and blueprints produced by the Lab was developed. Drawing numbers consisting of a letter signifying the size of the drawing, and a sequential number was given to each drawing as it was made.

“A” series drawings measure 8 X 10 ½”

“B” drawings are 10 ½ X 15 ¾”

“C” drawings are “10 ½ X 32 ¾”

“D” drawings are 16 X 21”

"E" drawings are 21 X 33”

Thus the original arrangement of the drawings has been preserved. Drawings are arranged roughly chronologically within series arranged by size.

Some drawings were received by the Lab which predated the Lab and do not, therefore have lab numbers. Other drawings were received by the Lab from project draftsmen, and are numbered differently. As the numbers indicate, many drawings made by the Lab have been lost.

These drawings depict instruments designed and/or built at or for SIO. Designers include Theodore R. Folsom, Jeffrey Dean Frautschy, John Dove Isaacs, L.W.

Kidd and James Snodgrass, among other unidentified or partially identified designers. Many of the drawings were made by Madeleine Miller Mahnkan, draftsman for James Snodgrass.

The drawings depict instrumentation, circuitry, building and ships plans. Instruments include the Folsom Plankton Splitter, the Isaacs/Kidd Mid-Water Trawl; nets, dredges, bottom samplers, plankton pressure chambers, titrators, temperature gradient recorders, corers, an in situ radiance meter, a gnathodynamometer, wave meters, telemetry equipment, depressors, a scoopfish sampler, and other equipment. The accession also includes drawings of temporary Navy buildings on the SIO campus, ship plans for a 95-foot research vessel, an outboard profile of the R/V ELLEN B. SCRIPPS, and a map of Pueblo Lot 1264, the SIO property on Mount Soledad.

A master list including drawing number, title, type, date and location has been prepared. This is supplemented by an index by designer name.

Background: The Instrument Engineering Lab was established in 1946. It was created "to assist in solving the development needs of the Institution" and designed instruments and other oceanographic equipment not commercially available.⁽¹⁾ Albert R. Champion undertook all design or application problems at the Lab from 1946 to 1949. Early in 1949, the SIO Machine and Electronics Shops were placed under the Supervision of John Isaacs and the SIO Special Development Division. James M. Snodgrass, served as "co-equal head" of the Division. On November 7, 1950, Snodgrass alone became Division Head.

1. Memo, Albert R. Champion to Dr. Sverdrup, "Use of Instrument Shop Facilities," 25 Feb. 1948 in SIO Biographical Files, Champion Folder.

**SIO Instrument Engineering Laboratory
Drawings, 1945-1969
Accession Number 82-72**

NUMBER

DRAWING TITLE

Side View, Gulf III Plankton Sampler Modifications, n.d.

[Net], n.d.

[Unidentified Instrument], n.d.

[Map, Bottom Topography, Baja, Gulf of California], n.d.

[Bottom Topography, La Jolla], n.d.

[Map, Coast of California and Baja], n.d.

[Drawing, Shipboard Laboratory], n.d.

[World Map], n.d.

[Map, Pueblo Lot 1264] Soledad Property, n.d.

Calorimeter Dial, 6/12/50

Storage Building, SIO. La Jolla, Project 86660, 5/23/55

SIO Accessory Binary Computer for Argonne Type Pulse Analyzer,
4/30/58

Ships Plans: 1. Proposed Hold, Proposed First Platform, Proposed Main
Deck, 10/7/58

Ships Plans: 2. Proposed Forecastle Deck, Proposed Navigation Bridge,
Proposed Top of Pilot House, 10/7/58

Ships Plans: 3. Proposed Outboard Profile, Proposed Inboard, 10/7/58
Profile (less cranes & winches), 10/7/58

Gulf of Thailand Bottom Topography, Contour Interval 5 meters, 1964?

Magnetic Release Mechanism Motor Driven, 1 of 2, July, 1964

NUMBER	DRAWING TITLE
6300	Storage Building, First Floor Plan, 7/20/67
100001	Assem.-Tsunami Filter Unit, 6/14/49
100025	Assem. Tsunami Filter Unit, 6/17/49
100026	Stand-Tsunami Filter Unit Support, 6/17/49
100037	Plate-T.F. Top Support, 6/20/49
100038	Assem.-Tsunami Filter Standpipe, 7/15/49
170003	Savonius Rotor for BuShips Current Meter, 3/12/57
180103	Slip Ring Assembly, 5/24/63
340000	Assembly: Magnetometer, 2/24/67
C535-2	Side Arm for 10' Mid Water Depressing Vane, 5/29/51
D1	Proposed Drawing Title Blocks for SIO, 12/16/46
D2	Proposed Sizes of Dwg Sheets for SIO, 12/19/46
D3	Rubber Stamps to be Used by Instrument Engineering Lab, SIO, 3/1/47
D101	Multisock Sediment Trap, MKI, Model 0, 11/11/46
D102	Trap Detail-Multi Sock Sediment Trap , MKI Mod. 0, Scale Full, 11/11/46
D103	Base & Mounting Plate Sub-Assem. MKII, Mod. 0 for U.C. MKIII Wave Meter, n.d.
D104	Parts-Hold Down Clamp-Tripod Assem. MKII, Mod. 0 for U.C. MKIII Wave Meter, 12/31/46
D107	Triplane Assembly MKII, Mod. 0, for U.C. MKIII Wave Meter, 12/31/46
D108	Tripod Assem. MKII, Mod. 0. for UC MKIII Wave Meter, 1946
D110	Tripod Assem. MKII, Mod. 0. for UC MKIII Wave Meter, 12/31/46
D115	Orbital Velocity Meter Assembly, 9/11/46

NUMBER	DRAWING TITLE
D116	Detail-Orbital Velocity ,Meter Assembly, 9/11/46
D118	Packing Terminal-Splice Box-Tripod Assem for U.C. MKIII Wave Meter, 3/18/47
D119	Clamping Terminal-Splice Box-Tripod, Assem. MKII Mod.0, for UCMKIII Wave Meter, 1/8/47
D-120	Details-Splice Box-Tripod Assem. MKII, Mod.0. for U.C. MKIII Wave Meter, 1/9/47
D121	Ends & Supports – Splice Box-Tripod Assem. MK II Mod. 0. For U.C. MKIII Wave Meter, 1/10/47
D122	Top Plate-Splice Box-Tripod Assem. MKII Mod. 0. for UC MKIII Wave Meter, 1/13/47
D123	Bottom Plate & Supports-Splice Box-Tripod Assem. MKII for UC MKIII Wave Meter, 1/13/47
D124	Side Plates-Splice Box-Tripod Assem. MKII Mod. 0. For UC MKIII Wave Meter, 1/13/47
D125	Cable connection-Splice Box-Tripod Assem. MKII Mod. 0. For UC MKIII Wave Meter, 1/20/47
D126	Surveying Instrument & Supply Cabinet-Drafting Room-South End of Building No. 1, 1/29/47
D157	Proposed Location of Temp. Navy Bldg 3 at SIO, 4/24/47
D170	Temp. Navy Bldg. No. 3, Changes to Existing Structure, 6/17/47
D188	Orifice Assembly-Sea Level Staff, 6/35/47
D189	Orifice Mt'g Fittings-Sea Level Staff, 6/26/47
D190	Orifice Mt'g Plates-Sea Level Staff, 6/27/47
D199	Top-Vault on West Side Temp. Navy Bldg. No.1 for Multiconductor Cable (MHFA-26), 8/4/47
D202	Detail-South End of Multiconductor Cable (MHFA-26), 8/11/47

NUMBER	DRAWING TITLE
D203	Detail-Inner End of Pier Multiconductor Cable (MHFA-26), 8/13/47
D204	Detail-Inner End of Pier Multiconductor Cable (MHFA-26), 8/14/47
D207	Section AA from Dwg #E-206-Support Armor Cable from Underwater Units, 8/22/47
D208	Section B-B from Dwg. E-206. Support &.Armored Cable Housing, 8/25/47
D209	View AA from Dwg. #D-208-Detail-Housing for Armored Cable, 8/26/47
D213	Proposed Cable Connection for UC Mark III Wave Meter, 9/29/47
D217	Stuffing Box-Fixed Housing With Interchangeable Cable Sizes, 9/8/47
D219	Tank Sea & Lid Housing-500 PSI Pressure Chamber, 5/14/49
D220	Seat Assembly-500 PSI Pressure, Chamber, 5/20/49
D221	Lid-500 PSI Pressure Chamber, 5/16/47
D225	Bellows Assembly Variable Pressure Pump Assembly, 10/24/47
D226	Lid-Variable Pressure Pump Assembly, 10/28/47
D227	Crosshead Guide Short Variable Pressure Pump Assembly, 11/10/47
D241	High Pressure Sight Gage-Variable Pressure Pump Assembly, 2/2/48
D268A	Underwater Sensing Unit, BuShips Current Meter (2/27/57), 3/5/57
D278	Gear & Clutch Drive for Haymaker Underwater Camera, June 1947
D282	Reel for Micromax Records, 4/15/48
D283	Pulleys-Microspeed Magnetic Tape Recorder, 5/5/48
D285	Pulley Mounting-Microspeed Magnetic Tape Recorder, 5/10/48
D378	Base Block, n.d.
D379	Standard, Outer Pivot Bracket Sub Assembly, 4/21/50

NUMBER	DRAWING TITLE
D385	Cantilever Handle, n.d.
D402	Auto-Pipette, n.d.
D404	Side Plates, n.d.
D405	Top Plate, n.d.
D406	Bottom Plate, n.d.
D407	Ends & Mounting Plates, n.d.
D422	Assembly for Mark VIII Wavemeter, 1/9/50
D434	Servo Amplifier Modified Knight No. 93-360 (Allied Radio), n.d.
D435	Lumetron Mod. 402-E Amplifier-Motor Coupling Circuit, 11/11/49
D436	Lumitron Mod. 402-E Conversion, 11/10/49
D456	Housing for Automatic Titrator, 12/15/49
D458	Ring for Piano Wire Sheave Block Assembly, 1/6/50
D462	Drum for Piano Wire Sheave Block Assembly, 1/4/50
D467	Handles, Ball Mold, 1/50/50
D468	Case for High Speed Net, 10/10/49
D472	Detail Drwg. for Record Analyzer, 10/19/48
D473	Detail Drwg. for Record Analyzer, 10/19/48
D474	Detail Drwg. for Record Analyzer, 10/14/46
D478	Orbital Velocity Demodulator, 1/15/50
D490	Assembly of Temperature Thermo Pile, 1/25/50
D502	Pivot Support Assembly Salt Water Meter, 3/24/50
D504	End Support Salt Water Meter, 2/14/50

NUMBER	DRAWING TITLE
D505	Salt Water Meter 2 Liter Capacity, 2/14/50
D506	Orbital Velocity Control Panel, 2/15/50
D520	Case for Mark VIII Submerged Power Supply, 3/2/50
D530	Base Assembly Surface Fish Larvae Trap, 3/14/50
D536	Case & Tow Bar Thermometer Fish, 3/28/50
D541	Case for Plankton Pressure Chamber, 4/4/50
D548	Plunger Support for Bottom Detector, 6/16/50
D549	Details and Assembly of Bottom Detector, 6/19/50
D577	Anti-Back Titrate Circuit Auto. Salinity Titrator, 12/15/50
D578	Schematic Drawing Auto. Salinity Titrator, 2/2/51
D583	Measured Circuit Converted Lumetron, 2/2/51
D584	Pre Amp Circuit for Lumetron, 1/29/51
D592	Details 15' Midwater Trawl Depressing Vane, 5/15/51
D594	Cod End Can for 15' Mid Water Trawl, 5/24/51
D595	Baffle Assembly for Cod End Can for 15' Midwater Trawl, 5/24/51
D600	Balance D.C. Amplifier for Sanborn Recorder, 6/15/51
D601	Pre-Amplifier Chain, 6/26/51
D605	Per Wind Direction Indicator, 7/12/51
D619	Assembly for Thermitow, 9/26/51
D622	Oceanside Telemetering Transmitter, 10/4/51
D635	Modifications of Stirrer for Automatic Titrator, 11/21/52
D639	Standard for Automatic Titrator, 10/22/51

NUMBER	DRAWING TITLE
D644	Synthetic Electrode Box Assembly for Automatic Salinity Titrator, 11/19/51
D645	Reference Voltage Box for Automatic Salinity Titrator, 11/23/51
6647	Dial Face for Inclinator, 12/7/51
D648	Mounting Layout for Automatic Titrator, 12/10/51
D654	Essential Circuit Electrode to Motor for Automatic Salinity Titrator, 12/18/51
D657	Relay Bank Circuit for Automatic Salinity Titrator, 1/9/52
D658	High Hydro Static Pressure Vessel, 9/12/52
D666	Modulator Demodulator for Use with Speedomax, 4/26/54
D679	Wheel for Counter Sheave, 12/4/52
D703	Pictorial Diagram of Valve Motor & Pump for Auto Titrator, 4/7/53
D704	Meter Net, 5/4/53
D704	Disc for Light Box, 7/8/53
D707	Assembly for Cable Clamp, 6/29/53
D726	Base for Plankton Splitter, 9/2/53
D753	Assembly of Sediment Movement Recorder, 3/12/54
D767	Radiant Energy Recorder (H-15 Newcombe Amplifier with Necessary Modifications), 4/16/54
D770	Drum & Shaft Assembly for Slick Temperature Measurement Recorder, 6/23/54
D771	Case for Slick Temperature Measurement Recorder, 6/22/54
D777	Thermometer Float Assembly, 7/29/54
D785	Valve for Upper End of Core Sampler 2 ½, n.d.

NUMBER	DRAWING TITLE
D785	Valve for Upper End of Core Sampler, 5/13/55
D786-1	Bottom Sediment Temperature Gradient Recorder (Maxwell) Compartment A, Sheet 1, 6/1/55
D786-2	Bottom Sediment Temperature Gradient Recorder (Maxwell) Compartment B, Sheet 2, 6/3/55
D786-5	Bottom Sediment Temperature Gradient Recorder (Maxwell) Compartment D, Sheet 5, 6/3/55
D789	Housing for Shutter Mechanism & Photo Tube, 7/30/55
D791	Sea Going Plankton Splitter, 9/7/55
D792	Sketch of Thermitron, 11/4/55
D804	Speedomax Test Unit, 2/2/56
D805	Base for Junction Box of Sediment Movement Instrument, 4/23/56
D809	Messenger Relay, 4/30/56
D810	Underwater Speaker Case for Dr. Walker, 5/7/56
D811-1C	Thermo Hydraulic Pressure System Schematic, Copied from G.B. Schematic, 3/4/65
D815	Assembly of Electrical Swivel for Current Meter, 9/13/56
D816	Deck Instrumentation, Telemetering Current Meter, Preliminary Block Diagram, 9/18/56
D819	Turbidity Current Sensor Sediment Motion Instrument, 10/8/56
D820	One-Half Liter Plastic Water Sampler, 11/15/56
D822	Deep Sea Rock Dredge, 12/14/56
D825	Assembly Clamps for Speedomax, 4/2/57
D826-1	[Roberts Current Meter], Sheet 1 of 2, 12/20/57
D826-2	[Roberts Current Meter], Sheet 2 of 2, 12/20/57

NUMBER	DRAWING TITLE
D828	Gravity Corer Valve, 4/3/57
D830	Core Barrel Sleeve and Weight Stand for Piston Corer, 4/5/57
D831	Multi-Channel Oscillator, 4/29/57
D849	Assembly of Bottom Temperature Probe Sensing Unit Sheet 2 of 2, 8/28/57
D850	Sea Water Bottle Ass'y for Mercury Manometer Recording Tide Gauge, 7/23/57
D851	Mercury Bottle, Bushing & Float for Mercury Manometer Tide Gauge, 7/24/57
D-855	Master Schematic for SIO Bottom Temperature Recorder E-292, 9/25/57
D856	Core Barrel, Cutter & Valve for Phleger Gravity Corer, 10/23/57
D857	Assembly of Electrical Swivel, 2/13/58
D868	Body for Vibrotron Depth Gage April, 1958
D869	Utility Servo Drive System, 2/14/58
D875	Deck Demodulator for Mech 1-Tron BT, 7/7/58
D877	Thermister (Unit 2) Signal Circuits, 8/18/58
D879 9/23/58	Piston Sub Assembly & Details-Bottom Detecting Device, Sheet 4,
D880	Bottom Detecting Device-Shell and Sub-Assembly, Sheet 2, 9/19/58
D881	Cap, Release Hook and Cap Sub-Ass'y. Bottom.Detecting Device, 9/22/58
D884	Sea Level Seasonal Indicator, Sheet 1 of 3, 10/15/58
D894	Deck Demodulator, Snodgrass Telerecording BT, 11/11/58
D900	Meter Wheel for Brown Sheave, Sheet 1, 4/2/59
D908	Piston Extruding Coring Device (Shepard), 6/9/60

NUMBER	DRAWING TITLE
D909	Master Schematic, Bottom Temperature Gradient Recorder E-929, n.d.
D912	Sea Unit-Acoustic Depth Telemeter, n.d.
D913	Thermogradient Block, n.d.
D914	Tritium Electrolyzer, n.d.
D924	World Map, 5/8/68
D924-1	[Pacific Ocean-Available Signal to Noise], 4/13/64
D926-1	Photometer Block Diagram-Boden , In situ Radiance Meter,12/18/64
D926-2	[Photometer-In situ Radiance Meter], 12/15/64
D926-3	Photometer-In situ Radiance Meter Boden, Playback Scheme, 12/15/64
D927	Photometer-Mast Mounted-Boden, 7/13/65
D928	Boden Telemetering Photometer, 5/15/65
D929-2	Gulf III Telemetry System for Plankton Sampler Scripps-Narragansett Nov-Dec, 1965
D929-3	Power Supply for Scripps-Narragansett Plankton Sampler, 10/5/65
D929-4	In situ Recording Radiance Meters in Tandem, 10/4/65
D932	Gnathodynaometer, Cross Section Showing Balls, Etc.,12/11/64
D2024-S9	Playback for In situ Radiance Meter, n.d.
E105	Clamp Assembly-Tripod Assem. MKII Mod.0 for UC MKIII Wave Meter, Dec. 1946
E106	Tripod Assembly-Tripod Assem. MKII Mod.0 for UC MKIII Wave Meter, Dec. 1946
E111	Splice Box-Tripod Assem. MKII Mod o for UC MKIII Wave Meter, 1/1/47
E112	Electrical & Other Fixtures in South End of Bldg. 1 (Temp) 2/1/47 U.C.- S.I.O., 2/1/47

NUMBER	DRAWING TITLE
E114	"Clamdigger" Bottom Sampler, n.d.
E129	110 Volt Lighting Circuits & 110 Volt Convenience Outlet Circuits in South End of Bldg 1 (Temp) U.C.-S.I.O., 3/13/47
E130	Air, Gas, Vacuum & Water Outlets in South End of Bldg 1 (Temp) U.C.-S.I.O., 3/12/47
E131	220 Volts 3 A.C. Circuits & 120 Volts D.C. Polarized Circuit in South End of Bldg 1 (Temp) U.C.-S.I.O., 3/12/47
E171	Temp. Navy Bldg. No.3, Tentative Foundation Plans, 6/18/47
E172	Temp. Navy Bldg. No.3, Alterations & Additions, 6/17/47
E192	Table Assembly for Water Level Recorder-Sea Level Staff, 7/7/47
E194	Installation of Sea Level Staff at U.C. S.I.O., 7/16/47
E197	Proposed Route for 2-2" Conduit Lines to House Multiconductor Cables, 8/1/47
E198	Vault on West Side Temp. Navy Bldg. No. 1 for Multiconductor Cable (MHFA-26), 8/4/47
E200	Layout-South End of Multiconductor Cable (MHFA-26), 8/5/47
E201	Layout-Inner End of Pier, Multiconductor Cable (MHFA-26), 8/6/47
E205	Terminal Box-Multiconductor Cable (MHFA-26), 8/18/47
E206	Layout-Outer End of Scripps Pier-Route of MHFA-26 & Armor Cable, 8/20/47
E212	Assembly and Installation of Armored Cable Housing & Support, 9/17/47
E218	Tank 500 PSI Pressure Chamber, 11/19/47
E223	500 PSI Pressure Chamber Assembly, 3/12/47
E224	Housing-Variable Pressure Pump Assembly, 10/22/47
E228	Crosshead Head Guide Long-Variable Pressure Pump Assembly, 11/7/47

NUMBER	DRAWING TITLE
E237	Variable Pressure Pump Assembly for 500 PSI Pressure Chamber, 1/18/47
E240	Storage Tank for Vacuum Impregnating Compounds-Pressure Chamber Assembly, 12/31/47
E244	[Storage Tank?], n.d
E245	[Storage Tank?], n.d
E276	Base & Truck-500 PSI Pressure Chamber Assembly, 4/1/48
E277	Base & Truck-500 PSI Pressure Chamber Assembly, 4/2/48
E287	Route of Cable Laying Ship from Position 2A 140' Unit, 6/1/48
E289	Microspeed Magnetic Tape Recorder Drive Assembly, 5/12/48
E376	Tube & Funnel Sub-Assembly, n.d
E403	Automatic Titrator, n.d
E437	Storage Bunker, Bldg. T-1, 11/25/49
E439	Depressor (Concrete), 11/17/49
E440	Depressor (Small), 12/2/49
E457	Assembly for Automatic Titrator, 12/13/49
E468	Case for High Speed Net, 10/10/49
E470	Building 341 Upper Story, Floor Plan (not to scale), n.d.
E471	Building 341, Lower Story Floor Plan, not to scale, n.d.
E475	Assembly Drwg. for Record Analyzer, 10/19/48
E519	Submerged Power Supply for Mark VIII, 3/3/50
E535-1	Assembly for 10' Midwater Trawl 1, Depression Valve, 5/28/47
E539A	Thermometer Fish Assembly, 3/29/50
E540	Assembly of Plankton Pressure Chamber, 4/7/50

NUMBER	DRAWING TITLE
E589	Assembly for Bottom Detecting Device, 5/8/51
E591	Assembly for 15' Mid-Water Trawl Depressing Vane, 5/21/50
E593	Side Arm for 15' Mid Water Trawl Depressing Vane, 5/18/51
E596	Assembly for 10' Mid-Water Trawl Depressing Vane, 5/28/51
E598	10' Mid-Water Trawl Net, Bridle & Tension Member, 6/5/51
E599	Mid-Water Trawl Net and Bridle, 6/8/51
E607	Titration Valve for Metering Assembly for Salinity Titrator, 8/21/51
E608	5 Stage Filter Circuit, 8/24/51
E649	Pictorial Diagram of Pump Valve Motor & Relay Rack for Auto. Salinity Titrator, 1/4/51
E680	Sheave Plate, 12/10/52
E681	Assembly for Sheave Block, 12/15/52
E695	Assembly for Bottom Detecting Device, 1/5/53
E705	Light Box, 8/13/53
E718	Plankton Splitter, 8/29/53
E731	Sediment Movement Recorder, 1/8/54
E769	Sediment Movement Recorder, 5/24/54
E812	Devereux High Speed Biological Collector, 5/24/56
E821	Three Liter Plastic Water Sampler, 12/12/56
E823	Assembly of Oxygen Sensor, 3/21/57
E834-1	Bottom Detecting Device-Assembly, Sheet 1, 5/15/57
E834-2	Bottom Detecting Device Shell & Sub-Assembly, Sheet 2, 5/10/57
E834-3	Bottom Detecting Device Cap & Sub-Assembly, Sheet 3, 5/13/57

NUMBER	DRAWING TITLE
E534-4	Bottom Detecting Device Piston Sub Ass'y & Details, Sheet 4, 5/14/57
E882	Bottom Detecting Device Assembly, Sheet 1, 9/30/58
E902	Plastic Water Sampler, 5/5/59
E902	Plastic Water Sampler, 11/15/60
E923	Halter Marine Service, New Orleans, 95' Work Boat (Twin Screw), Outboard Profile & General Arrangement [R/V Ellen B. Scripps], 5/8/68
E924-2	Proposed Ocean Data Station Network, 4/20/64
E925	Bathythermograph, 3/3/65
E926-5	Playback for In situ Radiance Meter, n.d.
E929-1	Telemetry System for General Dynamic Gulf III Scripps Narragansett II, Nov. 1965
E932-1	[Unidentified Instrument], n.d.
E932-2	[Unidentified Instrument], n.d.
E956	Deck Unit Gulf III Modification E956, 9/26/61
E60365	Bottom Sampler Assem.-"Scoopfish" Sampler, Model 1C, 10/10/46
E60395	Dehumidifier Trap Assembly 250 PSI-YP267, 12/12/45
E60405	Heat Exchanger 250 PSIG Air to Salt Water-YP267, 12/9/45
E60406	Heat Exchanger 250 PSI Air to Salt Water YP267 Welded Pipe, Ass'y & Details, 12/10/45
M535	Rotor for M-535, BuShips Current Meter, 3/21/57
M926	Boden In situ Radiance Meter, [12 photographs, 9 overlays], n.d.
M926	Boden Irradiance Meter, Printed Circuit Layouts, May, 1964
M926-7	In situ-Recording Radiance Meter, 5/14/65
M932-4	[Bite Test Meter?], n.d

NUMBER	DRAWING TITLE
M932-5	Bite Test Meter, 12/4/64
M932-6	Bite Meter Core, Core "BZ", 7/6/65
M932-7	[Graph, Total Sharks, Shark Size], n.d.
M932-8	[Graph, Species Total, Shark Size], 4/16/68
M932-9	Graph, Shark Species, Shark Size], 4/16/68
M935	[Side Scan], n.d.
M936	Track Chart for XBT Gulf Stream Section (Francis Assoc.), 9/12/66
SEA801	Sea State Meter, 3/16/53
XB177	Fins, Scoopfish Sampler, 10/23/45
XB178	Rack, Scoopfish Sampler, 10/9/46
XB179	Fin Strap, Scoopfish Sampler, 10/26/45
XB180	Bucket, Scoopfish Sampler, 10/27/45
XB181	Door-Scoopfish Sampler, 7/10/46
XB182	4" Arm, Scoopfish Sampler, 3/14/47
XB183	Rod & Pins-"Scoopfish" Sampler, 9/10/46
XB184	4 ½ " Arm, Scoopfish Sampler, 6/10/46
XD185	Door & Sleeve Assembly, Scoopfish Sampler, 10/2/46
XD186	Body, Scoopfish Sampler, 10/3/46
XD263	Assembly Drawing Differential Pressure Recorder Mark III, 1/23/46
XD264	Detail Dwg. for Diff. Pressure Recorder Mark III, 1/25/46
XD265	Detail Drawing of Differential Pressure Recorder Mark III, 1/25/46
XD266	Detail Drawing Differential Pressure Rec'r MKIII, 1/30/46

NUMBER	DRAWING TITLE
XD267	Parts Drawing Cable Connection Mark III Recorder, 2/18/46
XD268	Assembly & Details of Linkage Mechanism for Mark III, 4/26/46
XD270	Assembly & Details of Gear Box for Esterline Angus, 5/13/46
XD272	Case for Power Supply Unit for Mark III Mod. II, 3/16/46
XD273	Tripod for Mark III Wave Recorder, 6/25/46
XE132	Details for Mosby Thermo Sonde Scale 1/1, Detail Drwg. No. 1, 2/1/47
XE133	Details Mosby Thermo Sonde Scale 2/1-1/1, Detail Drwg. No. 2, 5/1/47
XE134	Details for Mosby Thermo Sonde, Scale. 2/1, Detail Drwg. No. 3, 6/1/47
XE135	Mosby Thermo-Sonde, Scale 1/1, General Assembly Drawing, 1/1/47
XE531	[Unidentified Instrument], n.d.
XE532	Automatic Titrator Circuits, n.d.
XF216	Navy. Temporary Bldg. 3 (Altered & Moved from Camp Elliott), Electrical Plan, Details, 9/15/47
XF571	[Unidentified Instrument], n.d.
XF580	Titrator Relay Circuit, Auto. Salinity Titrator, 2/2/51
XF581	Servo Amplifier-Auto. Salinity Titrator, Modified Knight No. 93-360, 12/15/50
XF582	Servo-Amplifier, Converted Lumetron, 12/14/50