

An Annotated Inventory of DeTour Reef Light Drawings

(Nat. Arch. nos. in bold are DeTour Point Light drawings - DPL no. is in Revised column)

This annotated inventory of original United States Lighthouse Service and United States Coast Guard Engineering Drawings of the DeTour Reef Light Station and a few from DeTour Point Light Station 1875-1982 was prepared by DeTour Reef Light Preservation Society volunteer Chuck Feltner in 2000 and used as an attachment to many documents including grants and National Historic Lighthouse transfer.

Source: 1 = USCG HQ, Ocean Engineering
2 = USCG 9th District, Civil Engineering
3 = Office of Superintendent of Lighthouses, 11th Dist, Detroit
4 = USCG 9th District, Electronic Engineering
5 = Other

Type: A=Architectural
E=Electrical/Electronic
M=Mechanical
N=Navigation, Aids to
S=Structural
T=Topographical
X=Miscellaneous

| Drlps No. | USCG No. | Nat. Arch. No. RH&L | Title | Date | Revised | Scale | Sheet | Annotation | Source | Type | Dup. | Crane | Displ. |
|------------------|-----------------|--------------------------------|--|-------------|----------------|--------------|--------------|---|---------------|-------------|-------------|--------------|---------------|
| 1 | 130419 | | Standard Aid to Navigation-Power Distribution for Signal Control System-Interconnection Diagram with Wire Running List | 11/15/1976 | R | none | 1/1 | Interconnection diagram with wire running list This is principally for the radiobeacon system | 1 | E | 1 | | |
| 2 | 1263-S | 705180 | Detail of Installation of "F2T" Type fog signal | 11/1/1956 | | 3/4" = 1' | 1/1 | Shows the entire mechanical installation of the F2T diaphone fog horn and its air supply system. From this you can deduce how the system worked. | 2 | M | 4 | | Y |
| 3 | 130418-2 | | Standard Aid to Navigation-Standby-Power Volume Engine/Generator System | 7/26/1976 | | none | 1/1 | This is an interconnect diagram with wire running list. This is for the stand-by power system (engine/generator) for the signal control volume | 1 | E | 1 | | |
| 4 | 130718-1 | | Standard Aid to Navigation-Engine Controller System Trouble Shooting Diagram | 5/6/1981 | | none | 3/6 | Trouble shooting diagram for the wiring system for an engine controller. What engine I am not sure. | 1 | E | | | |
| 5 | 1263-S-A | 705179 | Machinery and Electrical Panel Layout | 11/1/1956 | | variable | 2/2 | Includes main floor plan in 1956 time frame with machinery and panel layouts. A duplicate is included that has been marked up with changes to some of the machinery and layout. Compare this with drawing #50 which is the original layout. | 2 | M | 3 | | Y |
| 6 | 1477-D | | Standard Power System Controller By-Pass Jumper and Plug for Lima/Lister Engine | 8/31/1947 | R | none | 1/1 | Wiring diagram for controller system for one of the generators. | 2 | E | 1 | | |
| 7 | 12345-S | 705124 | Detail of Color Glass Frame | 2/26/1937 | | as shown | -- | This is a detail drawing of the color glass and their frames that are in the lantern room. Also shows a chart of Detour Passage with the angles of the color frames as viewed by vessels. | 3 | N | 1 | | |
| 8 | 130109 | | Standard Aid to Navigation-Signal Control Volume Equipment Layout Category 1- Container Installation | 8/1/1977 | R | 3/4" = 1' | 1/5 | This is a drawing of an 8'x10'x10' container (an enclosure) and the equipment it contains for controlling signal volume | 1 | E | 1 | | |
| 9 | 2224-S | 705177 | Fire Alarm System, Floor Plans and Detail | 5/9/1966 | R | as noted | 1/1 | Shows location and type of fire alarm system components by floor along with a general wiring diagram | 2 | E | 1 | | |
| 10 | 130406 | | Standard Aid to Navigation-Single SCR-1000 Sound Signal with Emergency Interconnection Diagram with Wire running List | 10/12/1977 | | none | 1/1 | This is basically a wiring diagram with a wire running list. Shows the power supplies, controllers and battery chargers for the main and emergency sound signals. | 1 | E | | | |
| 11 | 11358-S | 705133 | Main Switchboard Layout and Wiring Connection | 6/29/1931 | | 3"=1' | -- | This is a panel with switches to turn the power on and off to the lights, generators, compressor, etc. | 3 | E | 2 | | |
| 12 | 3360-S | | Lamp retrofit - Signal Control Volume Equipment Layout. | 8/10/1982 | | as noted | 1/3 | Signal control volume equipment layout. Includes a plan and elevation view of the signal control room. <i>This is a separate drawing of the last revision to drawing number 11 (2799-S)</i> | 2 | E | 1 | | |

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|-----------|----------|---------------------|--|------------|---------|-----------|-------|---|--------|------|------|-------|--------|
| 13 | 130108 | | Standard Aid to Navigation- Standby Power - Volume Equipment Layout (approximate date based on #8) | 5/30/1977 | | 3/4" = 1' | 2/? | This is a drawing of a 16'x10'x10' containerized standby power unit. Not sure what this was used for? | 1 | E | 1 | | |
| 14 | 1911-S | | Plot Plan | 3/2/1964 | | none | 1/1 | Shows navigation chart with location of the light and includes an overall east elevation and first deck plan. The east elevation does not show a deck crane on the south east corner. <i>Drawing 11 shows this crane as removed.</i> | 2 | T | 1 | y | |
| 15 | 11318-S | 705141 | Plan of Pier Deck: Details and reinforcement schedule | 4/3/1930 | | as shown | -- | Excellent plan view of pier deck and gallery. Includes dimensional detail of deck crane mounting. Pier deck is 64' x 64'. Part of the pier deck has a 3 ply waterproofing membrane underneath a 4" thick concrete reinforced slab. See drg 63 for a section view. | 3 | S | 2 | y | |
| 16 | 130904 | | GCF-RWL-2098 Audio Visual Controller Schematic Diagram | 6/15/1978 | | none | 1/1 | This is some kind of standard controller for the new fog horn and light | 1 | E | 1 | | |
| 17 | 11311-S | | East Front Elevation | 3/3/1930 | | 1/4" = 1' | -- | Excellent elevation view detail. There is some good detail on the deck cranes -- enough to scale it. | 3 | A | 2 | y | |
| 18 | 11310-S | 705135 | General Scheme | 2/25/1930 | R | 1/8" = 1" | 1/1 | Shows plan view of every level plus east front elevation and elevation cross section. Good view of deck cranes in elevation view. A water chlorination system was installed later but I can't read the date on this revision. | 3 | A | 2 | y | |
| 19 | 2942-S | 705175 | New Steel Plating on Concrete Weather Deck - Plan and Section | 5/17/1976 | | as noted | 1/2 | Plan view showing how the steel plating was placed on the pier deck. The plating was cut to fit around the crane baseplates. Also a note indicates that frame rims for manhole covers on the deck were cut flush before the plates were laid. | 2 | S | 5 | y | |
| 20 | 2942-S | 705176 | New Steel Plating on Concrete Weather Deck - Details | 5/17/1976 | | as noted | 2/2 | Details of attaching steel plating and stanchions to the concrete weather deck. Plan view showing how the steel plating was placed on the pier deck. The plating was cut to fit around the crane baseplates. Also a note indicates that frame rims for manhole covers on the deck were cut flush before the plates were laid. | 2 | S | 6 | | |
| 21 | 11354-S | 705129 | Lantern and Watch Room Elevation | 4/7/1931 | | 1" = 1' | -- | Excellent overall elevation detail of the original light station. | 3 | A | 3 | | |
| 22 | 130914 | | Standard Aid to Navigation- Emergency Power Entrance Assembly | 4/6/1977 | R | half size | 1/1 | Minor drawing. Looks like some kind of electrical box that kills the power when you enter the "container". | 1 | E | 1 | | Y |
| 23 | 130411 | | Standard Aid to Navigation-AV- Controller, Sensor Module and R.C.M.S. - Interconnection Diagram with Wire Running List | 2/2/1976 | R | none | 1/1 | Wiring diagram for standard aids to navigation. Not of much interest. | 1 | N | 1 | | |
| 24 | 1268-S | 705178 | LL 855 Detour Reef Mich. Wiring Plan | 11/28/1956 | R | 1/4" = 1' | -- | Electrical wiring diagrams for each floor of the light station c. 1956. There is a duplicate with some handwritten changes. Interesting to note that the keepers quarters had one 40 watt light bulb. Other rooms were similarly dimly lit. | 2 | E | 3 | | |
| 25 | 130103-1 | | Standard Aid to Navigation - FA232 Sound Signal, 12 V DC Current Detecting Device Installation. | 8/1/1977 | | 1/2" = 1" | 1/1 | Installation drawing for a current detection device -- for what I don't know? | 1 | E | 1 | | |

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| 26 | 9832-S | 705068 | Outline Sketch of Lantern-to accompany letter of June 17, 1905 | 6/17/1905 | | not shown | -- | This is not a DRL official drg. It is a DPL drg marked up to show the blind installation on DRL. Has some interesting detail on the black mini blinds that were used to section the light. One of the duplicate copies is not marked up for the blind installation | 3 | N | 2 | | |
| 27 | EI-261-69 | | New Electronics Equipment Installation Plan. | 3/18/1969 | R | as shown | 1/1 | Apparently the existing VHF radio was a URC-7 which was located on the second floor in the office. This drawing shows the addition of a URC-45 remote to the URC-7. This remote has a station in the watch room apparently to allow a keeper to answer the radio from the watch room. Includes a nice drawing of the flagpole with the VHF antenna. | 4 | E | 1 | | |
| 28 | 5940D6029 | | Wiring Diagram-Spec. 3-Speed Hoist Control, 120V DC Thermal Overload | 7/7/1953 | R | none | -- | Hoist wiring diagram - for what hoist I don't know | 5 | E | 1 | | |
| 29 | 130913 | | Standard Aid to Navigation-D.C. Distribution Panel Assy-Details | 3/3/1977 | | as noted | 3/4 | Shows details of an electrical enclosure and its mounting. | 1 | E | 1 | | |
| 30 | 130421 | | Standard Aid to Navigation-Standby Power Distribution-Interconnection Diagram With Wire Running list | 7/26/1976 | R | none | 1/1 | This is wiring diagram for distribution of electrical power to various systems from the standby power unit. | 1 | E | 1 | | |
| 31 | 2799-S | | Emergency Light and Fog Detector - Electrical and structural | 11/13/1973 | R | 1/8" = 1' | 1/10 | Shows structural and electrical diagrams by floor for emergency light and fog detector. Also gives detailed direction for preparing the light house for unmanned operation. Includes converting the crane on the north west corner to manual operation. Drawing clearly says " removed deck crane " on the southeast corner-see comments on drawing 14. <i>There is a duplicate of this but it does not include the latest revisions.</i> | 2 | M/E | 4 | y | |
| 32 | 2799-S | | Emergency Light and Fog Detector-Structural Elevation, Sections and Details. | 11/13/1973 | R | as noted | 2/10 | Shows details of emergency and winter light and of a sound emitter unit. | 2 | N | 1 | | |
| 33 | 2799-S | | Emergency Light and Fog Detector-Fuel and Engine Generator Details. | 11/13/1973 | R | as noted | 3/10 | Details of a 10 KW Onan generator and its fuel supply system | 2 | M | 1 | | Y |
| 34 | 2799-S | | Emergency Light and Fog Detector - Mechanical sections and details | 11/14/1973 | R | as noted | 4/10 | Shows "detail K" from sheet 1 of 10 for converting the crane to manual operation as well as a detail of new manual winch. Also shows steel window covers and mounting details. | 2 | M | 3 | y | |
| 35 | 2799-S | | Emergency Light and Fog Detector-Electrical and Mechanical Details | 11/14/1973 | R | as noted | 5/10 | Elevation view of the main lamp and its lamp changer, 2 details of the fog detector system and a detail of a skylight closure. | 2 | N | 1 | y | |
| 36 | 2799-S | | Emergency Light and Fog Detector-Electrical Navaid Wiring Diagram | 11/14/1973 | R | none | 6/10 | Wiring diagram for device called a Navaid | 2 | E | 2 | | |
| 37 | 2799-S | | Emergency Light and Fog Detector-Electrical Navaid Wiring Diagram | 11/14/1973 | R | none | 7/10 | Wiring diagram for device called a Navaid | 2 | E | 1 | | |
| 38 | 2799-S | | Emergency Light and Fog Detector-Electrical Schematic | 11/14/1973 | R | none | 8/10 | This is a portion of the electrical schematic for the entire system | 2 | E | 1 | | |
| 39 | 2799-S | | Emergency Light and Fog Detector-Electrical Schematic | 11/14/1973 | R | none | 9/10 | This is a portion of the electrical schematic for the entire system | 2 | E | 1 | | |
| 40 | 2799-S | | Emergency Light and Fog Detector-Electrical Details | 11/14/1973 | R | none | 10/10 | Contains electrical details of pieces of the system | 2 | E | 1 | | |

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| 41 | 11315-S | 705138 | Floor Plans From Pier Deck to Lantern and Gallery Gratings and Railing | 3/24/1930 | | as noted | -- | Excellent detailed floor plans. Note that the gallery and second floor are 30'-8.5" square which is a footprint of 943 sq. ft. The tower is 12' square while the watch room deck is 14' square. The watch room deck is made up of castings and the drawing calls for using 4 of 8 sections from the Detour Point Light. The four corner sections are new. Also the roof of the second floor is a 5" concrete reinforced slab covered with copper sheet. | 3 | S | 2 | | |
| 42 | 130915 | | Standard Aid to Navigation-Fire Suppression System Modification | 3/3/1977 | R | 1 to 1 | 1/1 | Shows modifications to the existing fire suppression system mostly wiring and electrical items. | 1 | E | 1 | | |
| 43 | 130719 | | Standard aid to Navigation-Daytank Assembly System-Troubleshooting Diagram | 3/3/1978 | | none | 1/1 | This is a layout of the electrical and mechanical system used to pump fuel from the main storage tank to a daytank that supplies two different engines (I assume these are some kind of generator? - must be the backup generators). Drawing gives a complete procedure for the duty cycle of this system. The refill system appears to be automatic. | 1 | M | 1 | | |
| 44 | 130718-1 | | Standard Aid to Navigation-Engine Controller System Trouble Shooting Diagram | 5/6/1981 | | none | 1/6 | Trouble shooting diagram for the wiring system for an engine controller. What engine I am not sure. | 1 | E | 2 | | |
| 45 | 130416-1 | | Radiobeacon System Interconnect Diagram With Wire Running List (RCMS Equipped Stations) (approximate date based on #3 and #23) | 6/1/1976 | | none | -- | Electrical wiring diagram for T-747, T-747-A and T-854 radiobeacons. What unit is /was? on DRL I don't know. | 1 | E | 1 | | |
| 46 | 130913 | | Standard Aid to Navigation-D.C. Distribution Panel Assy-Electrical Schematic, Parts List and notes | 3/3/1977 | | as noted | 4/4 | Electrical schematic and parts list for 12 V and 24 V D.C. distribution panel. | 1 | E | 1 | | |
| 47 | 11326-S | 705149 | Column and First Floor Framing | 1/26/1931 | | 3/4" = 1' | -- | Shows detail drawings of all structural steel members in the first floor column and framing. | 3 | S | 2 | | |
| 48 | 11328-S | 705151 | Tower Framing and Details | 11/29/1930 | | 3/4" = 1' | -- | Structural steel drawings for all members in the tower section (roof of second floor to floor of watch room) | 3 | S | 2 | | |
| 49 | 11317-S | 705140 | Section Through Concrete Pier, Sidewalk lights, Pier Details, Etc. | 4/3/1930 | | as shown | -- | Very nice plan view of a section through the concrete pier. The section is just above the floor of the main level. Shows all the piping for floor drains and sump. This should be useful in guaranteeing dryness of this level. Includes details of the plumbing installation on the second floor. Details of the sidewalk lights on the pier deck and other miscellaneous details. | 3 | M | 1 | | |
| 50 | 11313-S | 705136 | Main Floor Plan and Machinery Layout | 2/18/1931 | | 1/4" = 1' | -- | Excellent detailed layout of the original machinery. Compare this with drawing #5 which is the layout c. 1956. Also shows steam piping and radiator layout. Note that the capacity of the 2 air receiver tanks fed by the compressor and used to blow the fog signal are 120 cu. ft. each. | 3 | M | 3 | | |

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| 51 | 11316-S | 705139 | Crib Details | 3/28/1930 | | as shown | -- | This is a detailed construction drawing of the wooden crib. From this you can deduce not only the construction on shore but how the crib was put in place and construction of the pier completed in the water. There are 4 spuds on the corners each with a 5000 lb. concrete block to hold the crib in place while it was filled with stone. Outer dimensions of the crib are 60' by 60'. It had an inner section with watertight floor and walls that was filled with stone and an outer perimeter of pockets that had no floor. There were 5 tremies in the inner section used to pour concrete under the floor once the crib was in place. The outer wall planking and the crib cross members were dovetailed together and also attached using bolts and drift pins. There is a 3'-6" manhole at the edge of one of the inner walls. See drg. 58 for crib timber detail drgs. See #117 for the steel plating that was attached to the crib. | 3 | S | 2 | | |
| 52 | 11329-S | 705152 | Elevations With Plate Layout and Schedule | 11/29/1930 | | 1/4" = 1' | -- | Shows the pieces of 1/4" steel exterior plating that was placed on the outside of the building on the 1st and 2nd floors and the tower. A total of 119 plates were used. With the exception of the east face entrance the building is entirely symmetrical. There are 10 windows on the W, N, and S faces with 8 windows and a double door on the E face. A total of 38 windows were used. The windows in the upper tower section illuminate the space between the tower walls and the steel cylinder that houses the spiral staircase - see drg 18 for a section view. | 3 | S | 2 | | |
| 53 | 11357-S | 8/1/3830 | 3rd Order Lens, Wiring and mounting Detail | 8/24/1931 | | as shown | -- | Shows plan and elevation view of the 3rd order lens and its drive system along with wiring and mounting detail. Note that the lamp for the light was 500 watts and was frosted on the inside. The drive system for rotating the lens consisted of a 1/6 hp, 1725 rpm GE dc motor connected to a Foote Bros. gear reducer with a ratio of 1:80. The motor speed was controlled by a rheostat mounted on the wall of the watch room. The mounting stand for the lens was attached to the watch room floor with the motor and gear reducer accessible from there. The gear reducer output shaft had a 3 tooth 10 pitch steel pinion on its end that drove a 90 tooth 10 pitch brass gear that drove a 40 tooth 10 pitch brass gear attached to the shaft that rotated the lens. | 3 | N | 2 | | |
| 54 | 11356-S | 705131 | Lantern Details | 6/15/1931 | | as shown | -- | Details of lantern room dome parts. See dwg. 21 for partial assembly. | 3 | S | 1 | | |
| 55 | 11362-M | 705106 | Rip Rap Protection Around Pier | 4/11/1932 | | as shown | -- | Depicts the rip rap laid around the bottom of the pier. Drawing coincides with what my divers observed during June and July of 2000. | 3 | X | 1 | | |
| 56 | 11349-S | 705172 | Watch Room Deck Casting | 3/18/1931 | | 1" = 1' | -- | Excellent Plan view of watch room deck. Includes detail dwg. of each of the 8 deck castings. Four of these were used from the Detour Point Light. | 3 | S | 2 | | |

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| 57 | 11344-S | 705167 | Tower Cornice, Arch Window Frames and Tower Window Sill Castings | 12/30/1930 | | 3" = 1' | -- | The tower cornices are at the top of the tower and below the watch room deck and can be seen in cross section and elevation view in place in dwg. 21. The upper and lower tower window sills are also shown but there is no dwg. of the arch window frames in this dwg. | 3 | S | 1 | | |
| 58 | 11315-A-S | 705122 | Detail of Crib Timbers | 6/2/1930 | | 1/2" = 1' | -- | I think this drg. is mis-numbered. It should be 11316-A-S. See drg. 51 for crib general. Drg. shows each timber in detail. | 3 | S | 1 | | |
| 59 | 11321-S | 705144 | Details of Basement and Gallery Steel | 12/16/1930 | | 3/4" = 1' | -- | Shows main and gallery floor beams, columns, stair beams and gallery door to pier deck. | 3 | S | 1 | | |
| 60 | 11348-S | 705171 | Water Table and Tower Base Castings | 12/15/1930 | | 3" = 1' | -- | Not sure what the water table castings are but I think they gird the main building at the window sill level of the first floor and promote proper drainage away from the building base on the pier deck. The tower base castings are at the base of the tower and gird it. This drg. copy has been cut off in the copy machine. | 3 | S | 1 | | |
| 61 | 1044-D | 705112 | Sidewalk Light Opening Enlarged & Replaced With Concrete Cover | 12/29/1950 | | as shown | 1/1 | Some, or all, of the sidewalk lights were removed and replaced with a concrete cover. We need to determine which ones were modified in this fashion. | 2 | X | 1 | | |
| 62 | 11350-S | 705173 | Mill-Work Details | 2/7/1931 | | 3/4" = 1' | -- | Includes detail drgs. of kitchen cupboard, closet in keeper's room, machinery room workbench, tool rack board, machinery room supply cabinet, cabinet in tower room, all interior doors, front screen doors, antenna support and flagpole. From these drgs. a woodworker could do exact replicas of much of the cabinetry and doors. | 3 | X | 1 | | |
| 63 | 11319-S | 705142 | Section Details, Stair & Gallery- Showing Reinforcing and Membrane Waterproofing | 4/3/1930 | | 1/2" = 1' | -- | Good elevation section view of the pier from the main floor to the pier deck. Shows most reinforcing and structural members as well as the forming that was built to pour the concrete above the crib. Includes a section of the stairs from the main floor to the gallery. These details should be useful in sealing cracks and doing waterproofing. See drg 15 for a plan view. | 3 | S | 1 | | |
| 64 | 11338-S | 705161 | Circular Stairway In Tower: Plan, Elevation and Details | 1/3/1931 | | as shown | -- | Shows the details of the circular stairway that was used from the DPL. There is a good sectional view of the lower tower. See also the sectional view in drg 18. From these 2 drgs I calculate the upper tower section contains a 16'-5" piece of the 6' dia, 1/4" plate steel cylinder from the original Detour Point Light. | 3 | S | 2 | | |
| 65 | 11355-S | 705130 | Lantern Watch Room and Deck Panel Castings | 5/5/1931 | | as shown | -- | Includes detail of watch room floor casting (1), watch room panels (9) that mount on the periphery of the floor casting and a casting for the watch room deck (8 pieces required-4 from the old light - see drg 56). Also shows the watch room door from the watch room to the watch room deck and ventilators to go in the 9 panels. Shows detail of the platinum tipped solid copper pinnacle that mounted on the very top of the dome. | 3 | S | 1 | | |

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| 66 | 11353-S | 705128 | Lantern Deck Castings and Stairs | 3/26/1931 | | as shown | -- | Includes Lantern room level deck castings, watch room to lantern room spiral stairs, watch room deck to lantern room deck ladder and a 1/2 plan of the lantern roof and deck. | 3 | S | 2 | | Y |
| 67 | 11352-S | 705127 | Anchor Bolt Layout and Tanks | 3/5/1931 | | 3/4" = 1' | -- | Anchor bolt layout is for bolting of structural members to the pier deck (I think?). Includes drgs of fuel, air receiver and water pressure tanks. Shows installation detail for phone cable (So -- they had a phone from day 1). | 3 | X | 1 | | |
| 68 | 11346-S | 705169 | Pediment, Cornice and Circular Stair Base Castings | 1/13/1931 | | 3" = 1' | -- | The cornice castings are for the second floor cornices-see drg 69. The pediment casting is for the architectural pediment over the main door on the pier deck east side. The stair base casting is the base mount for the tower? spiral staircase. | 3 | X | 1 | | |
| 69 | 11345-S | 705168 | Second Floor Cornice Castings | 1/9/1931 | | 3" = 1' | -- | Includes a part plan showing arrangement and marking of second floor cornice castings. Shows details of cornice I & III. See drg 68 for no. II and IV. | 3 | X | 1 | | |
| 70 | 11342-S | 705165 | Gutter, Spouts and Smoke Stack: Sheet Metal Details | 1/16/1931 | R | as shown | -- | Gutters and down spouts for 2nd floor roof. Primary smoke stack with revisions for "as built" | 3 | X | 1 | | |
| 71 | 11339-S | 705162 | Lantern Deck Railing, Cornice, Parapet Railing and Details | 1/6/1931 | | as shown | -- | The drg title is somewhat misleading. What is included are the details of the railings for the watch room deck, the second floor roof (parapet) and the pier deck. The sections through the cornices for the 2nd floor roof are to show the attachment scheme for the railing and corner bay plates. | 3 | X | 1 | | |
| 72 | 11340-S | 705163 | First and Second Story Windows: Elevations and Details | 12/9/1930 | | as shown | -- | Dimensions of each window and window opening including sections for heads, jambs, sills and mullions. Also shows some of the shutters. | 3 | S | 1 | | |
| 73 | 11337-S | 705160 | Stairway From Second Floor to Tower | 2/17/1931 | | not shown | -- | Detailed structural drg of this stairway. | 3 | S | 1 | | |
| 74 | 11336-S | 705159 | Stairway From Balcony to Second Floor | 2/3/1931 | | 1" = 1' | -- | Detailed structural drg of this stairway. | 3 | S | 1 | | |
| 75 | 11332-S | 705155 | North and South Wall Plating | 1/17/1931 | | 1" = 1' | -- | Detailed plate drgs with rivet hole patterns for 5/8" rivets. | 3 | S | 1 | | |
| 76 | 11333-S | 705156 | Center Plating and Shutters | 2/6/1931 | | 1" = 1' | -- | Detailed plate and shutter drgs. | 3 | S | 1 | | |
| 77 | 11334-S | 705157 | East and West Tower Wall Plating | 1/8/1931 | | 1" = 1' | -- | Detailed plate drgs with rivet hole patterns for 5/8" rivets. | 3 | S | 1 | | |
| 78 | 11323-S | 705146 | Second Floor Ceiling Beam Details | 11/20/1930 | | 3/4" = 1' | -- | Includes tower floor framing plan and details of all beams. | 3 | S | 1 | | |
| 79 | 11324-S | 705147 | Columns and Angle Details | 11/25/1930 | | 3/4" = 1' | -- | Details of columns running from main level floor to 2nd level roof and tower floor to tower roof. Includes other structural members | 3 | S | 1 | | |
| 80 | 11325-S | 705148 | 1st and 2nd Floor Framing and Details | 1/8/1931 | | as shown | -- | Elevation of framing and some beam details including the trolley beam in the gallery. | 3 | S | 1 | | |
| 81 | none | | Standard Casements and Fixed Windows | none | | none | -- | Sketches of windows | 3 | X | 1 | | |
| 82 | none | 705102 | Sidewalk Light in Pier | none | | none | -- | Grill and glass block light placed in the opening in the pier deck to provide light for the machinery room. | 3 | X | 1 | | y |
| 83 | none | | none | none | | none | -- | Sketches of the moldings for interior doors and window frames | 5 | X | 1 | | |
| 84 | none | 705118 | none | 12/4/1930 | | full size | 1/2 | Drg of head, jamb, sill and mullion for windows | 5 | X | 1 | | Y |
| 85 | none | 705119 | none | 12/4/1930 | | 3/4" = 1' | 2/2 | Window drgs from supplier | 5 | X | 1 | | |

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|-----------|----------|---------------------|---|------------|---------|-----------|-------|---|--------|------|------|-------|--------|
| 86 | none | 705115 | Details of Hollow Metal Doors | 7/31/1930 | | 3/4" = 1' | -- | Drgs of metal doors from supplier, Firecraft Door Co., Chicago, IL. One door is the exterior double door and the other is an interior door - don't know which one? | 5 | X | 1 | | |
| 87 | none | | Thermostatic Controller - Parts Layout and Schematic | 10/9/1972 | R | none | -- | Some kind of electrical controller supplied by Automatic Power Inc., a Division of Penwalt Corp., Houston, TX | 5 | E | 1 | | |
| 88 | 965 | 705116 | 5 Ton Pillar Crane With Auxillary Hand Hoist | 1/24/1928 | | 3/4" = 1' | -- | This is supposedly the original crane that was on the pier deck. Supplied by J. C. Busch of Milwaukee. Six of the duplicate drawings are of Poe Reef Light (NA# 1008517). Cranes on Poe and Detour were identical. | 5 | X | 13 | Y | |
| 89 | none | 705090 | Crane Plumbing: Roughing-in Measurements | 7/20/1931 | | none | -- | This is the cover sheet of a document that contains the roughing-in measurements for all of the plumbing fixtures. Crane Co. of Detroit was obviously the supplier of the plumbing fixtures. Documents 705091 to 705094 contain the individual drawings for each fixture. | 5 | X | 1 | | |
| 90 | none | 705091 | Crane Roughing-in Measurements: "Norfolk" Enameled Lavatory | 7/20/1931 | | none | -- | Drg of the sink that was used in the bathroom along with details for installation. Dated March 1930. | 5 | X | 1 | | |
| 91 | none | 705092 | Crane Roughing-in Measurements: "Okolona" Syphon Action Washdown Closet | 7/20/1931 | | none | -- | Drg of the toilet that was used in the bathroom along with details for installation. Dated Oct. 1929. | 5 | X | 1 | | |
| 92 | none | 705093 | Crane Roughing-in Measurements: "Corwith" Enameled L.H. Corner R.H. Outlet Bath | 7/20/1931 | | none | -- | Drg of the bathtub used in the bathroom along with details for installation. Dated Sept. 1930. | 5 | X | 1 | | |
| 93 | none | 705094 | Crane Roughing-in Measurements: Enameled Iron Kitchen Sink | 7/20/1931 | | none | -- | Drg of the kitchen sink used along with details for installation. Dated Aug. 1925. See #98. | 5 | X | 1 | | |
| 94 | none | 705095 | Type NPE-411 P'I.T. Cell in Sealed Glass Jar | 11/13/1941 | | none | -- | Battery cells supplied by Gould Battery Corp. of Depew, NY. Their drg no. is S-40102 and has a date stamp of 1-28-48 | 5 | E | 1 | | |
| 95 | none | 705098 | Cremorne Bolts-1 (approximate date) | 7/20/1931 | | none | 1/2 | This is a bolt device for use on a door or a window for locking it. Probably for the main front door. Manufactured by Rixson Co. Drg with details for maounting. See #96 | 5 | X | 1 | | |
| 96 | none | 705098 | Cremorne Bolts-2 (approximate date) | 7/20/1931 | | none | 2/2 | General specifications. See #95 | 5 | X | 1 | | |
| 97 | none | 705100 | Cast Iron Newel | 1/29/1931 | | none | -- | This is a newel or stanchion for a railing. What railing I don't know -- but we will find out by measuring and comparing. | 5 | X | 1 | | |
| 98 | none | 705105 | Crane Roughing-in Measurements: L.H. Corner Sink | 7/20/1931 | | none | -- | This is the actual kitchen sink that was used. See #93. | 5 | X | 1 | | |
| 99 | 9826 | 705096 | Bronze Sheave - Wrought Iron housing | none | | none | -- | This is a sheave and housing for what I don't know. Says "One for Detour". | 5 | X | 1 | | |
| 100 | none | 705097 | Glass Sizes for Detour Reef Light | 4/29/1931 | | none | -- | This is a bill of material giving the sizes and number of all the glass panes used in the DRL windows. Suplier is a company named Lemco (casement windows). | 5 | X | 1 | | |
| 101 | 11979 -L | 705099 | Detour Reef Light Station Mi. Soundings | 9/11/1934 | | none | -- | Plan view showing soundings around the pier after completion of the lighthouse and with riprap in place. Note that the minimum depth up close to the pier is 9 feet. | 3 | N | 1 | | |

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|-----------|----------|---------------------|--|------------|---------|---------|-------|---|--------|------|------|-------|--------|
| 102 | 11045-L | 705101 | Doors for Watch Room | 6/29/1928 | | 3/4"=1' | -- | In view of the date of this drawing they were planning ahead. They intended to use the watch room from the onshore Point light and felt it needed new doors before being re-installed. | 3 | X | 1 | | Y |
| 103 | 924 | 1014427 | 5 Ton Pillar Crane (Martin Reef Light). Estimated date - see #88 | 1/24/1928 | | none | -- | This is the Crane on Maetin Reef Light. It is similar to but smaller than Detour crane. | 5 | M | 1 | | |
| 104 | none | 705103 | Casements and Fixed Windows | none | | none | -- | Gives dimensions for 38 casement and fixed windows in the lighthouse. Also shows typical window section. | 3 | X | 1 | | |
| 105 | none | 705104 | Detail of Flag Pole | 7/2/1931 | | none | -- | Drg of flag pole supplied by George P. Johnson Flag and Decorating Co. | 5 | X | 1 | | |
| 106 | none | 705111 | Wiring Diagram for 15 KW Generator | 10/12/1956 | | none | -- | Detailed wiring diagram for a generator supplied by US Motors Corp. of Oshkosh, WI. | 5 | X | 1 | | Y |
| 107 | 1269-D | 705110 | Pothead Enclosure | 11/5/1956 | | 3"=1' | -- | Don't know what this is? | 2 | X | 2 | | |
| 108 | none | 705109 | Interior Walls of Gallery Level - Wainscot | none | | none | -- | Shows the details of the tile wainscot on the interior walls of the gallery floor. | 3 | A | 1 | | |
| 109 | 787-D | 705108 | Wiring Diagram | 4/16/1945 | | none | -- | Wiring diagram for 5 KW motor. This was replaced by dwg 735-S | 2 | E | 1 | | |
| 110 | A-15002 | 705114 | 4 Cyl. Engine with 5 KW Generator | 6/3/1931 | | none | -- | Engine/generator set supplied by Novo Engine Co. of Lansing, MI. | 5 | M | 1 | | |
| 111 | none | 705113 | Window Trim and Door Casing | 5/19/1937 | | none | -- | Trim moulding for windows and doors made of 20 ga. Metal. | 5 | X | 1 | | |
| 112 | G-2242 | 705117 | Pressure Tank (Water Tank) | 4/14/1935 | | 1"=1' | -- | 4'D x 8'L water tank supplied by Coatsville Boiler Works of Middletown, PA. | 5 | M | 1 | | |
| 113 | none | 705120 | Soundings on Detour Point Reef | 5/9/1930 | | 1"=200' | -- | Water depths on Detour Reef. Done to pick location of the lighthouse. Enlarged from a field survey done on 4-16-30. Marks probably indicate 2 different possible locations of the light. | 5 | N | 1 | | |
| 114 | D-41069 | 705123 | Air Cooled Compressor - Diesel Driven | 2/6/1950 | | 1.5"=1' | -- | Diesel driven air compressor supplied by Gardner-Denver Co., Quincy, IL. Model is 7x5 WCE Vertical. | 5 | M | 1 | | |
| 115 | 11361-S | 705125 | Battery Rack, Radio Table | 6/29/1931 | | 1"=1' | -- | Battery rack designed to hold 54 batteries. Has a battery layout added on 5-20-39. Philco atteries replaced Gould. Also has a drg of a table apparently to hold the radio. | 3 | E | 1 | | |
| 116 | 11351-S | 705126 | Conduit Layout and Wiring Plan for Lights | 2/24/1931 | | 1/4"=1' | -- | Shows the complete layout of the wiring system for the lights on all floors. Note 25 and 40 watt bulbs. It was very dimly lit. | 3 | E | 1 | | |
| 117 | 11320-S | 705143 | Detail of Steel and Plating for Crib | 3/26/1930 | | 3/4"=1' | -- | Drg of the steel plating that was bolted to the outer edges of the crib for ice protection. The plates are 8' 6" high and are bolted to the outside edges of the crib. They overlap the crib and extended 5' above the top of the crib. | 3 | S | 1 | | |
| 118 | 11322-S | 705145 | Second Floor Beam Details | 11/18/1930 | | 3/4"=1' | -- | Drg of every single 8" I beam in the floor of the second story along with a framing plan. A 3-1/2" thick concrete floor reinforced with wire mesh was pored on top of this. | 3 | S | 1 | | Y |
| 119 | 11327-S | 705150 | Door and Window Channels | 1/14/1931 | | 3/4"=1' | -- | Door and Window openings were constructed using 10" steel channel . These are detailed drgs of each channel (primarily for the first floor -- I think?). Also showsteel smoke stack support. | 3 | S | 1 | | |
| 120 | 11330-S | 705153 | East and West Wall Corner Plating | 12/29/1930 | | 1"=1' | -- | Drg of 1/4" steel palting for the exterior east and west corners of the building. They used 5/8" rivets to attach all the plating. | 3 | S | 1 | | Y |
| 121 | 11331-S | 705154 | East and West Wall Center Plating | 12/31/1930 | | 1"=1' | -- | More of the detailed drgs of 1/4" exterior steel plating (1st and 2nd story). | 3 | S | 1 | | |

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| 122 | 11335-S | 705158 | North and South Tower Wall Plating | 2/25/1931 | | 1"=1' | -- | Detailed drgs of 1/4" steel plating on the exterior of the tower. | 3 | S | 1 | | |
| 123 | 11341-S | 705164 | Entrance Doorway and Tower Windows Elevation and Details | 12/11/1930 | | 1"=1' | -- | Shows cross sectional views of doors and windows for the entire upper structure. The views are representative and do not necessarily show all openings. Drg gives a very good idea of the construction of the exterior walls. They have a total thickness of 11-3/4" comprising 1/4" exterior plate backed up by 10" clay tiles (bricks or blocks) installed with mortar and then covered on the interior with 5/8" thick plaster. Note that the lower window on the south side of the tower opens up (hinged). | 3 | S | 1 | | |
| 124 | 11343-S | 705166 | Diaphone Cover and Insulation | 2/3/1931 | | 1.5"=1' | -- | Basically a steel box with insulation to cover the fog horns. It had access hatches and was mounted on the inside and attached to the floor. You can see how this cover box was mounted in drg #128 or 705137. | 3 | S | 1 | | Y |
| 125 | 11347-S | 705170 | Window Sills and Aprons - 1st and 2nd Floor | 12/9/1930 | | 3"=1' | -- | All of the window sills and aprons described herein are iron castings. | 3 | S | 1 | | |
| 126 | 735-S | 705174 | Schematic Wiring Diagram | 6/15/1945 | | none | -- | Control panel and wiring diagram for 3 different generators. | 2 | E | 1 | | |
| 127 | 11359-S | 705134 | Radio Control Switch Board and Frame Detail | 7/18/1931 | | as shown | -- | Panel with switches to control fog horn no. 1 or fog horn no. 2. Tied together clocks radio beacons, backup batteries, power sources, etc. | 3 | E | 1 | | |
| 128 | 11314-S | 705137 | Diaphone Installation and Details | 2/1/1931 | | as shown | -- | Also see 705136, 11313-S for other views. Shows the complete machinery layout and piping for the fog horns. Also shows some layout detail on the generators and the water tank. Note that there was a 1-1/4" dia. Cooling water pipe that went down into the floor of the machinery room to a well or cistern. | 3 | M | 1 | | |
| 129 | 9834 S | 705070 | Stairs, Windows, door, china closet, moldings, etc. for dwelling | 12/2/1905 | 1P | | | As noted in the title these are interior items undoubtedly accompanied drawings for dwelling alteration but there is no date. Has no. 100075. | 3 | A | 1 | | |
| 130 | 9835 S | 705073 | Floor plan for second floor and attic | 12/2/1905 | 2P | | | Shows layout of the second floor rooms and attic. Must be late date modification as there are 3 chimneys. Has no. 100076 so it goes with 1P. | 3 | A | 1 | Y | |
| 131 | 9836 S | 705072 | Foundation and first floor plan | 12/2/1905 | 3P | | | Has no. 100076. Does say "hot water heating plant added Oct. 28, 1912". Excellent scaled floor plans. | 3 | A | 1 | Y | |
| 132 | 9837 S | 705069 | Front and rear elevation | 12/2/1905 | 4P | | | Has no. 100078. Excellent scaled front and rear elevation. | 3 | A | 1 | Y | |
| 133 | 9838 S | 705067 | Remodeling of Keepers Dwelling - Side elevation | 12/2/1905 | 5P | | | Has no. 100079. View of the south side of the building. Note says "to accompany letter of 2 Dec. 1905 to L. H. Board. Includes excellent view of the light tower. | 3 | A | 2 | Y | |
| 134 | 9846 H | 705066 | Coal Bin, Water Supply and Landing Crib | 8/1/1889 | 6P | | | Says this facility was built in Aug.1889. Apparently it is the system for making steam to blow the fog signal. | 3 | A | 1 | Y | |
| 135 | | 705058 | Plot Plan (estimated date) | January 1, 1910 | 7P | | | Must be post 1900 because of note "see blueprint by keeper for location of telephone lines | 3 | T | 1 | Y | |
| 136 | | 705062 | Plot Plan | 6/2/1888 | 8P | | | Result of a survey in 1875. Drawing is a negative copy and small size. | 3 | T | 1 | Y | |
| 137 | 9832 S | 705068 | Outline Sketch of Lantern | 6/17/1905 | 9P | | | Shows watch room, lantern room and dome. Same drg as #26 but in original form. | 3 | A | 2 | Y | |
| 138 | | 705054 | Plot Plan | 8/23/1894 | 10P | | | | 3 | T | 1 | Y | |

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| 139 | B 9825 | 705050 | Details of handrail for tower stairs | 9/18/1903 | 11P | | | Says for DeTour, Whitefish Pt., Manitou L.S. If this is for the spiral staircase inside the tower then it works for DRL. Not sure what handrail? | 3 | A | 1 | | |
| 140 | 9831 H | 705061 | Plan of Lantern Deck (estimated date. See #102) | 6/29/1928 | 12P | | | Floor plan of the Lantern deck. Has no. 100072. Drg may have been done shortly before DRL was built knowing that this deck was going to be part of the new DRL. | 3 | A | 1 | | |
| 141 | B 9830 | 705064 | Lens Protector for Skeleto Iron Towers | 8/6/1910 | 13P | | | I think this is a structure that sat over the top of the lens and mounted to the roof of the lantern room. | 3 | A | 1 | | |
| 142 | | 705063 | Dimensions Type "F" Diaphone | 1/17/1927 | 14P | | | This is a drawing from the Diaphone Signal Company of Toronto, Can... Given the date this may be air driven fog horn and may be the same one that we have restored. | 3 | M | 1 | Y | |
| 143 | B 9275 | 1020326 | Outline sketch showing addition of four flash panels, clock, and revolving apparatus to convert present fixed light into fixed varied by flashes | 1/20/1892 | 15P | | | Says "Trans from - Detour to Rock of Ages, Rock of Ages to Stock, Stock to Middle Island - Fall of 1914. This was probably at Detout Pt. Somewhere in the time frame of 1892 to 1914. Shows that it was originally designed for Whitefish Pt. | 3 | | 1 | Y | |
| 144 | none | 705052 | 3rd Order Lens, (Small Model) | 10/25/1906 | 16P | | | Drg of DPL lens done by USLHS 3rd District. All dimensions are in millimeters so it must be a copy of an original French drg. This lens may have been the one that was transferred from DPI to DRL. See drg. #53 | 5 | N | 1 | | |
| 145 | none | 705051 | Plot Desired - Compass Station (estimated date) | 7/31/1925 | 17P | | | This is the 1894 plot plan with a section outlined that obviously the Navy wanted as the property on which it would place its radio compass equipment. This proposed site is not the one that was finally chosen. See #148 & 150. | 5 | T | | | |
| 146 | 9840L | 705055 | Lens Protector. | 5/13/1896 | 18P | | | I really don't know what this is. It is only about 20" tall and 19" in diameter? See drg #141. | 3 | N | | | |
| 147 | 9841H | 705060 | Brass Cable Brake | 4/9/1911 | 19P | | | This apparently is a braking mechanism to hold in place the cable that carried the weights for the clock mechanism for the lens rotation? Probably used to lock in place the cable so that the weightd could be removed. | 3 | M | 1 | | |
| 148 | none | 705059 | Plot Proposed- Compass Station (estimated date) | 7/31/1925 | 20P | | | Shows another proposal for the location of the radio compass station. See #145 & 150. | 5 | T | | | |
| 149 | none | 705056 | Section 10 & 15, T41N, R4E, Mich. | 11/29/1909 | 21P | | | This is a plot of government survey notes that shows the lots that were part of the DPL reservation. | 3 | T | | | |
| 150 | 10906S | 705074 | Radio and Air Diaphone Fog Signals Installation | 7/31/1925 | 22P | 1/4"=1' | 2/2 | Plan view of the fog signal/coal bin building showing equipment installation and space for the new air diaphone. Some steel structural members for building a platform to support the diaphone. Excellent plot plan of area around the fog signal building showing the location of the radio compass building (completed in 1921), the radio compass transmitter towers, the oil house and the lighthouse. In a photo dated June 1924 the radio compass bldg is there and so are the steam whistles but the transmitter towers are not present. In a March 1926 photo the transmitters are in place and the steam whistles are gone. There are 3 transmitters? See #134. | 3 | A | 1 | | |

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| 151 | 10257S | 705076 | Proposed Alterations in Dwelling | 5/14/1913 | 23P | as shown | 2/2 | This is the second alteration to the keepers dwelling and was done in 1913 (1914 photo shows it done). This is right after the formation of the Lighthouse Bureau and they probably had to show they were doing something. The first alteration appears to have been done in 1905. See #154. | 3 | A | 1 | | |
| 152 | 20A | 705077 | L. H. Reservation, Pte. Detour, Michigan | 9/1/1875 | 24P | as shown | -- | This is the plot plan drawn from an official survey in 1875. Only one fog signal building (built in 1871) is shown located to the SW of the dwelling (a cross hatched area is shown to the east where the 2nd signal bldg was built in 1889). Note the existence of 2 docks, 1 on the south shore and 1 on the west shore. The dock on the west shore was later expanded and a boat house was added by the Navy in 1921 (in fact the document describing the sale of the property in 1932 says there were 2 boathouses at this location). It should be located about 700 ft. north of a point on the west shore that is directly west of the keepers dwelling. The barn is also shown about 110' and 30 deg. west of north of the keepers dwelling. Two other small buildings or markers are shown (with elevations). Don't know what these are but they could have been station points used by the surveyors? (maybe the stone with UsLHS is at one of these positions?). Note that on this drawing the scale is shown in units of "chains". The standard chain used to measure with by surveyors of the period was 66 feet long. | 3 | T | 1 | | |
| 153 | 9833S | 705071 | Wall Sections of Dwelling Addition | none | 25P | none | -- | Wall and cellar detail for dwelling addition of 1913. | 3 | S | | | |
| 154 | 10256S | 705075 | Proposed Alterations in Dwelling | 5/14/1913 | 26P | as shown | 1/2 | Plans for proposed alteration of the keepers dwelling to house the second assistant keeper including a set of stairs to access the light tower from outside. See #151. | 3 | A | 1 | | |