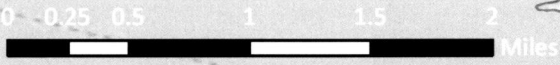


Legend

- ★ Phillips 66 Company San Francisco Refinery
- +— Union Pacific Railroad
- · - · Pinole Shoal Centerline
- ▭ Permitted Dredge Limits
- ▨ Eelgrass Beds
- 250 m Eelgrass Buffer

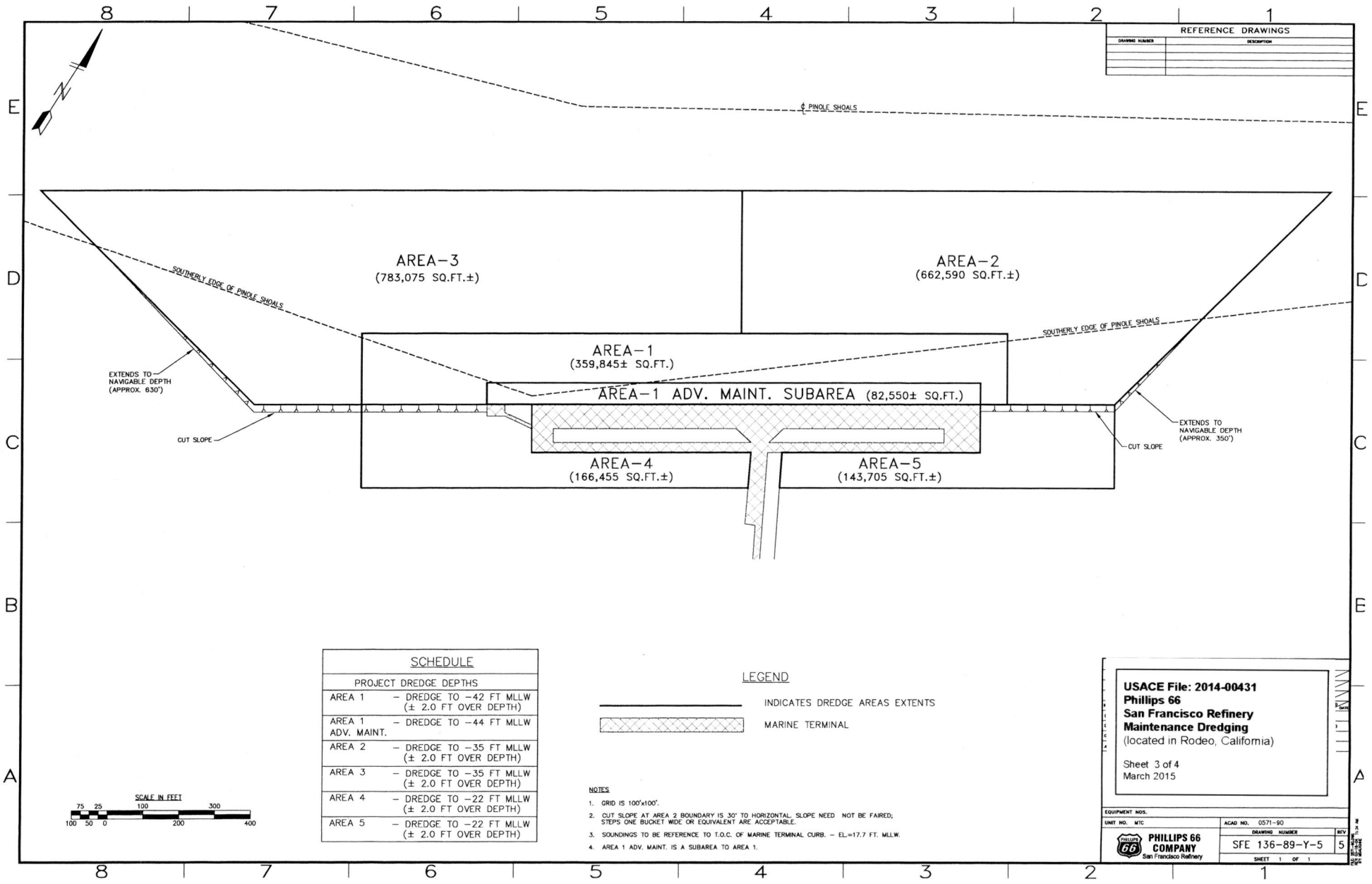


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 Phillips 66
 San Francisco Refinery
 Maintenance Dredging
 (located in Rodeo, California)

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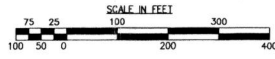


| REFERENCE DRAWINGS | |
|--------------------|-------------|
| DRAWING NAME | DESCRIPTION |
| | |
| | |
| | |

| SCHEDULE | |
|-----------------------|---|
| PROJECT DREDGE DEPTHS | |
| AREA 1 | - DREDGE TO -42 FT MLLW (± 2.0 FT OVER DEPTH) |
| AREA 1 ADV. MAINT. | - DREDGE TO -44 FT MLLW (± 2.0 FT OVER DEPTH) |
| AREA 2 | - DREDGE TO -35 FT MLLW (± 2.0 FT OVER DEPTH) |
| AREA 3 | - DREDGE TO -35 FT MLLW (± 2.0 FT OVER DEPTH) |
| AREA 4 | - DREDGE TO -22 FT MLLW (± 2.0 FT OVER DEPTH) |
| AREA 5 | - DREDGE TO -22 FT MLLW (± 2.0 FT OVER DEPTH) |

| LEGEND | |
|--------|--------------------------------|
| | INDICATES DREDGE AREAS EXTENTS |
| | MARINE TERMINAL |

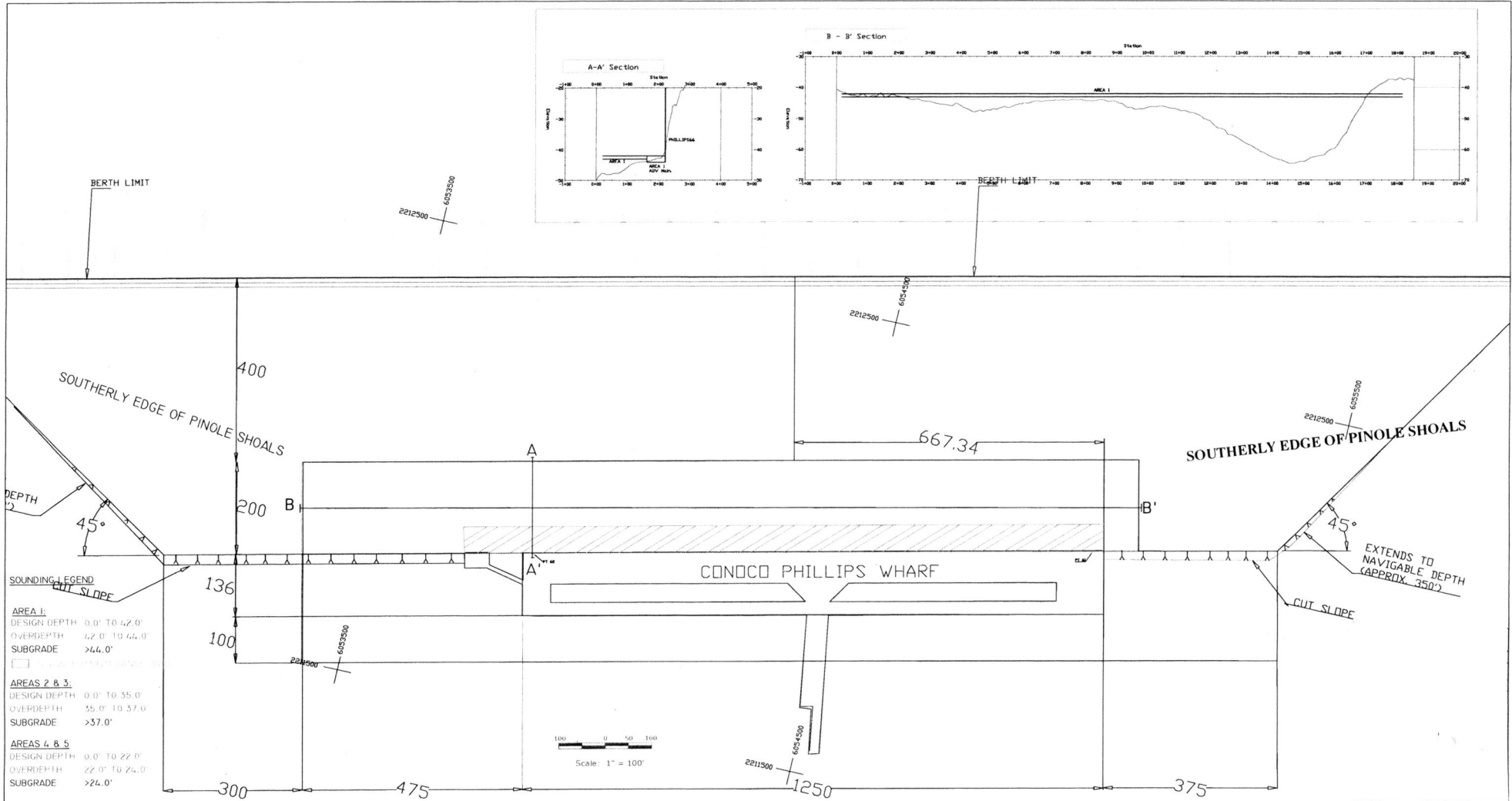
- NOTES**
- GRID IS 100'x100'.
 - CUT SLOPE AT AREA 2 BOUNDARY IS 30° TO HORIZONTAL. SLOPE NEED NOT BE FAIRED; STEPS ONE BUCKET WIDE OR EQUIVALENT ARE ACCEPTABLE.
 - SOUNDINGS TO BE REFERENCE TO I.O.C. OF MARINE TERMINAL CURB. - EL.-17.7 FT. MLLW.
 - AREA 1 ADV. MAINT. IS A SUBAREA TO AREA 1.



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Phillips 66
San Francisco Refinery
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 (located in Rodeo, California)

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| | | | |
|--|--|------------------|--|
| EQUIPMENT NOS. | | ACAD NO. 0571-90 | |
| SMT NO. MTC | | DRAWING NUMBER | |
| PHILLIPS 66 COMPANY San Francisco Refinery | | SFE 136-89-Y-5 | |
| SHEET 1 OF 1 | | REV 5 | |



NOTES:
 SOUNDING REFERENCED FROM MONUMENT CONOCO TIDAL ELEV. +17.555' MLLW. MONUMENT LOCATED ON CONOCO PHILLIPS WHARF AT TEE ACROSS FROM OFFICE
 LEVEL LOOP WAS RUN FROM 1ST ORDER U. S. C. & G. MONUMENT K-469, ELEVATION +16.790' MLLW SET BY TOWILL, INC..
 SOUNDINGS ARE IN US SURVEY FEET, REFERENCED TO 0.0 FEET MLLW
 SEDIMENT GRAIN SIZE ANALYSIS (2010) WITHIN PERMITTED AREAS
 13.5% FINES (SILTS AND CLAYS) 83% SAND, AND 0.8% GRAVEL
 HORIZONTAL DATUM IS US STATE PLANE, NAD 1983 CALIFORNIA ZONE 3
 HORIZONTAL CONTROL BASED UPON POINTS 61 AND 62
 POINT 61: NORTH 2212107.22 EAST 6055025.42
 POINT 62: NORTH 2211837.33 EAST 6053855.96

PHILLIPS 66 Company, SAN FRANCISCO REFINERY
 1380 SAN PABLO AVENUE
 RODEO, CA 94572

Typical Dredge Survey Plan and Cross Sections
 (Note: Sounding data not shown for clarity)

| | | | |
|--------------|-----------|------------------|--|
| SURVEYED BY: | ETRAC INC | SURVEYED VESSEL: | |
| SURVEY DATE: | 05/15/14 | DREDGE: | |

THE DUTRA GROUP
 DREDGING, MATERIALS, FABRICATION AND CON
 DEPARTMENT OF ENGINEERING/SI
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PREDREDGE SURVEY

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