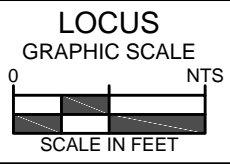


PROJECT LOCATION

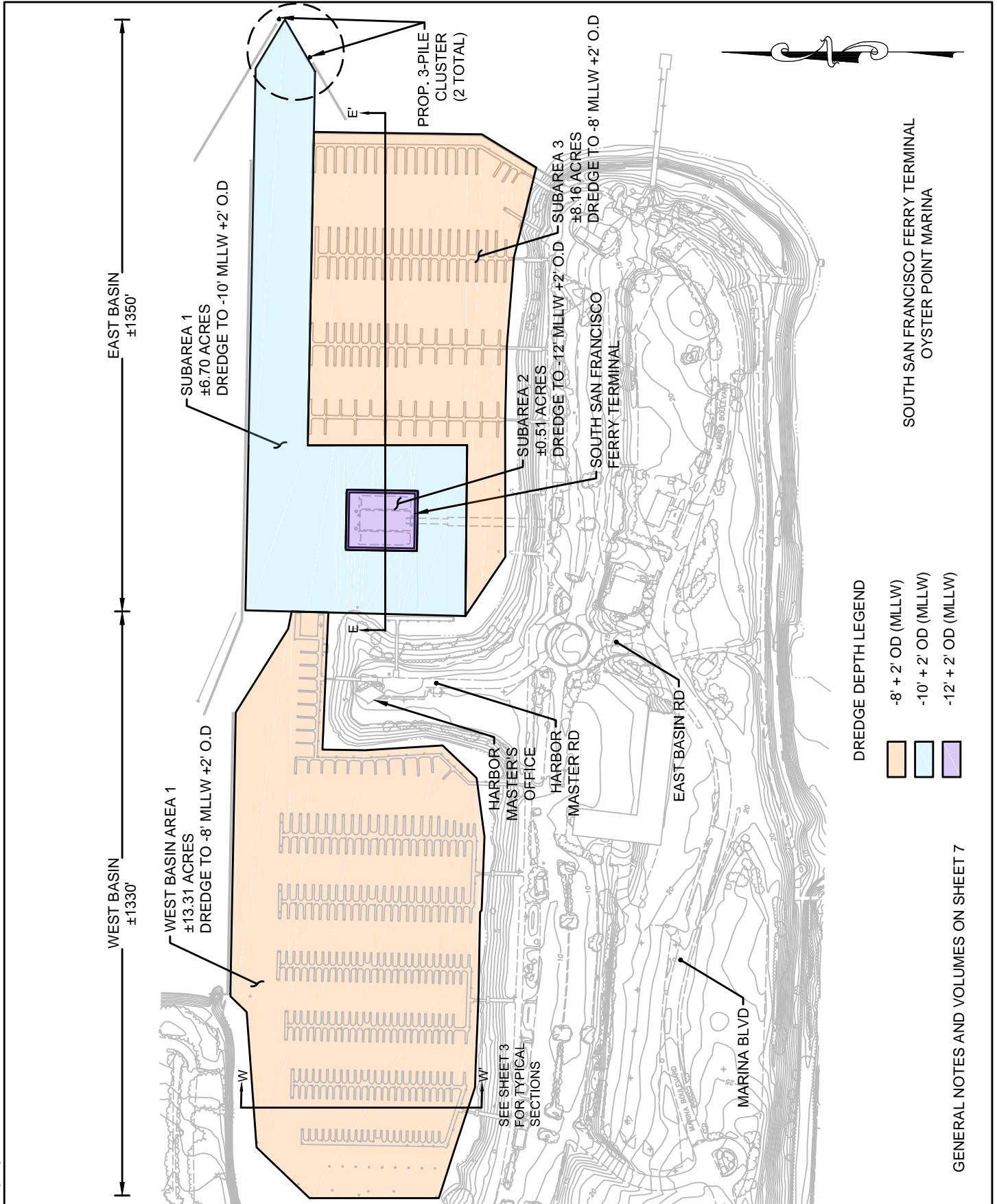
c:\users\vgk\desktop\sf ferry east basin permit.pln

PURPOSE: PROPOSED MAINTENANCE DREDGING IN
 OYSTER POINT MARINA- SOUTH SAN FRANCISCO FERRY
 TERMINAL
 DATUM:
 MLLW = 0.0
 FOTH-CLE ENGINEERING GROUP
 10 COMMERCIAL BLVD SUITE 100, NOVATO CA, 94949

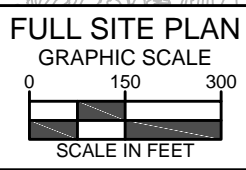


OYSTER POINT MARINA
 SOUTH SAN FRANCISCO, CALIFORNIA
 AT: OYSTER POINT MARINA
 COUNTY OF: SAN MATEO
 APPLICATION BY: SF WETA AND THE SAN MATEO
 HARBOR DISTRICT
 DATE: MAY 2018

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PURPOSE: PROPOSED MAINTENANCE DREDGING IN OYSTER POINT MARINA- SOUTH SAN FRANCISCO FERRY TERMINAL
 DATUM: MLLW = 0.0
 FOTH-CLE ENGINEERING GROUP
 10 COMMERCIAL BLVD SUITE 100, NOVATO CA, 94949

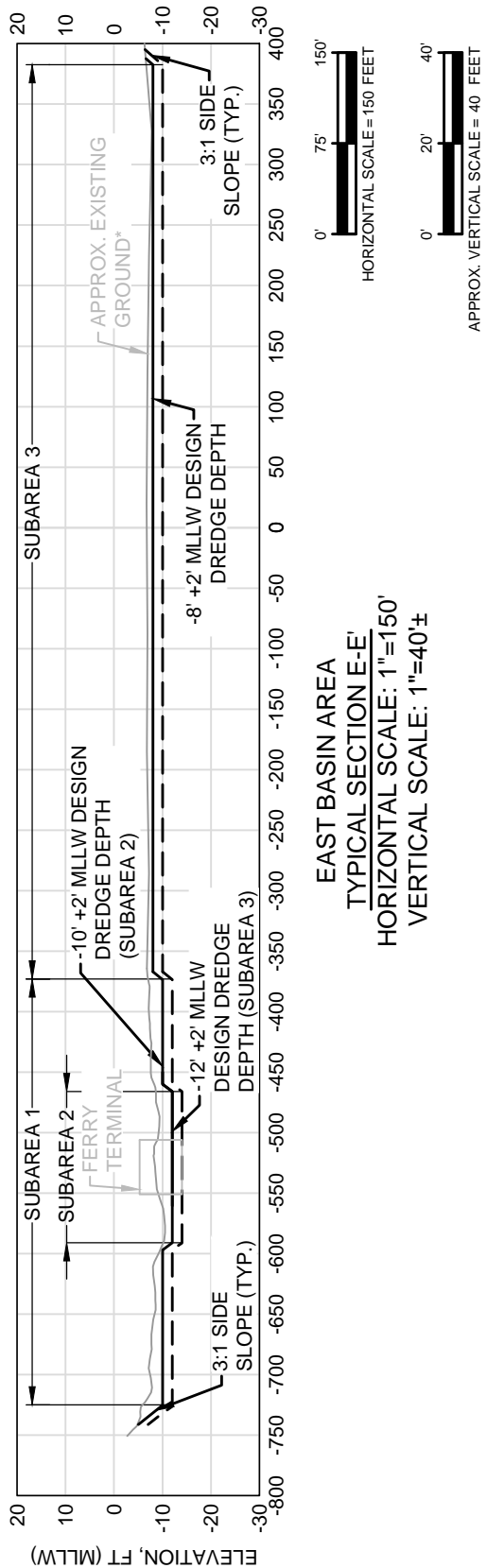


OYSTER POINT MARINA
 SOUTH SAN FRANCISCO, CALIFORNIA
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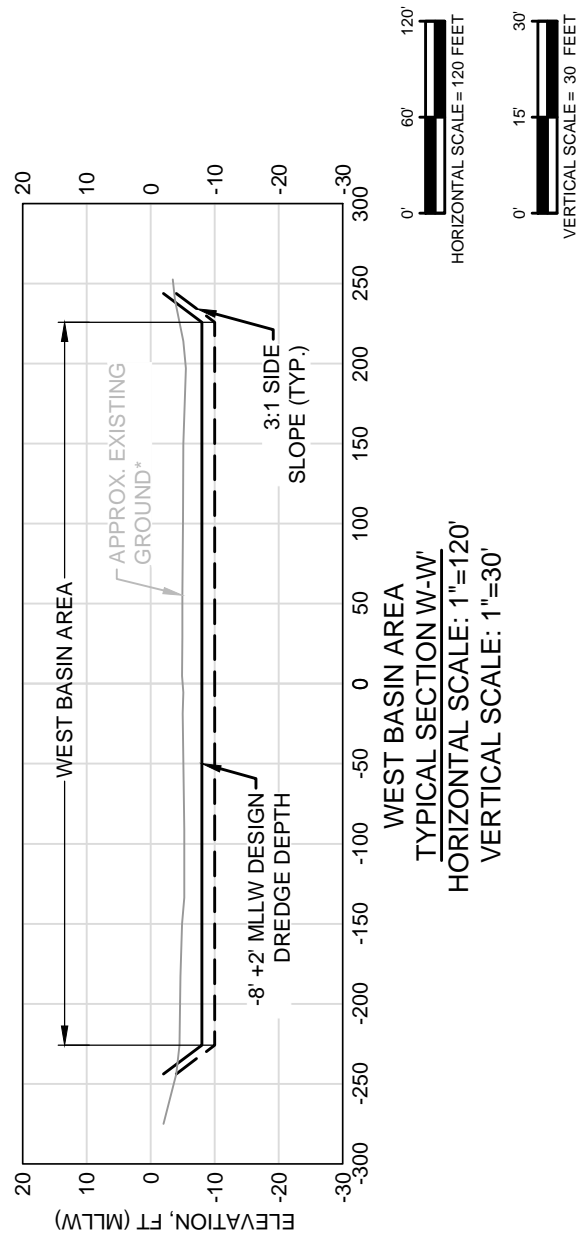
GENERAL NOTES AND VOLUMES ON SHEET 7

SHEET 2 OF 7

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EAST BASIN AREA
TYPICAL SECTION E-E'
HORIZONTAL SCALE: 1"=150'
VERTICAL SCALE: 1"=40'±



WEST BASIN AREA
TYPICAL SECTION W-W'
HORIZONTAL SCALE: 1"=120'
VERTICAL SCALE: 1"=30'

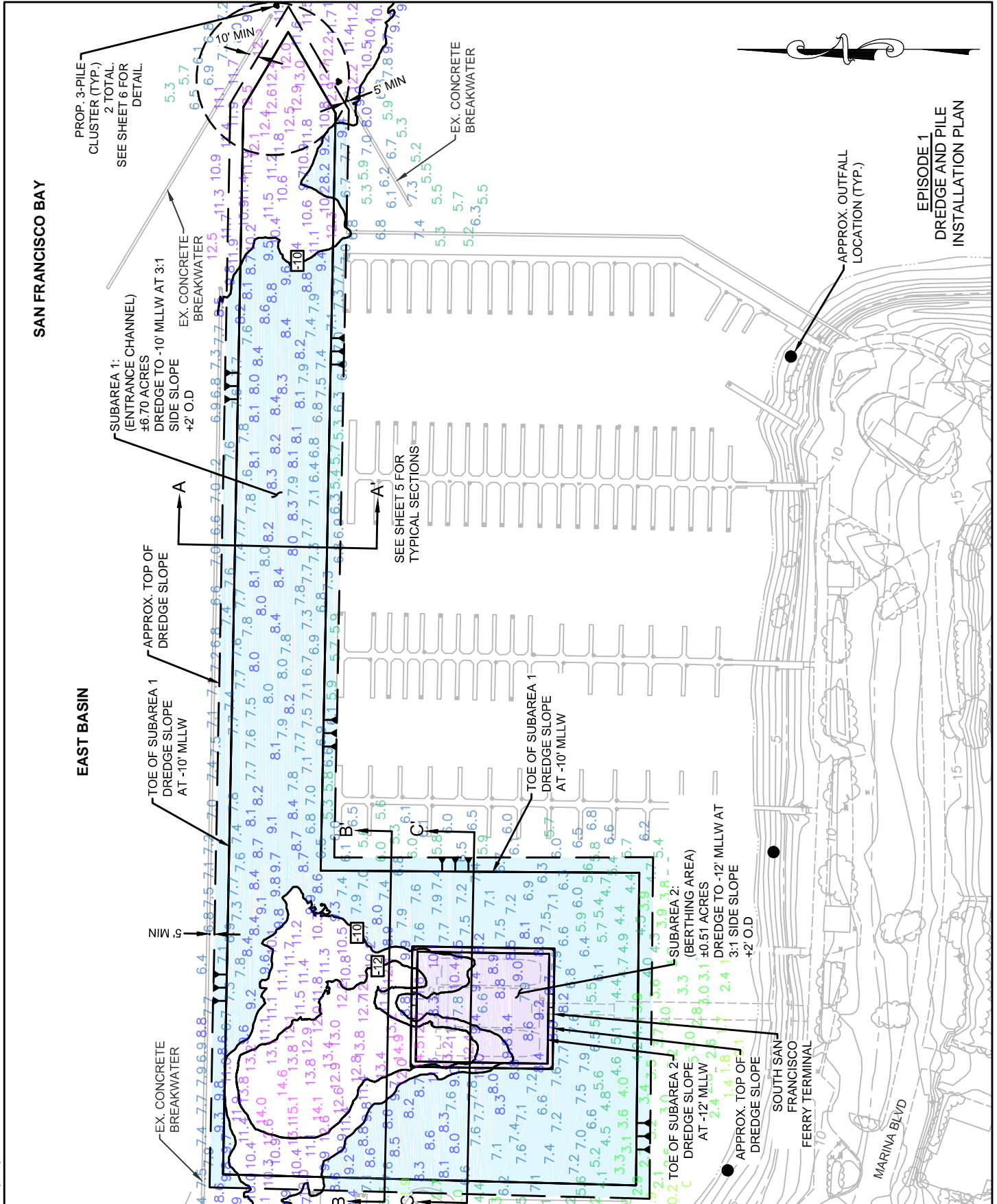
PURPOSE: PROPOSED MAINTENANCE DREDGING IN OYSTER POINT MARINA- SOUTH SAN FRANCISCO FERRY TERMINAL
 DATUM: MLLW = 0.0
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TYPICAL DREDGE SECTIONS
 GRAPHIC SCALE
 SCALE VARIES

 SCALE IN FEET

OYSTER POINT MARINA
 SOUTH SAN FRANCISCO, CALIFORNIA
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*BATHYMETRY SURVEY PERFORMED BY SEA SURVEYOR DATED MAY 7, 2003
 AND FOTH-CLE DATED MARCH 8, 2018

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SAN FRANCISCO BAY

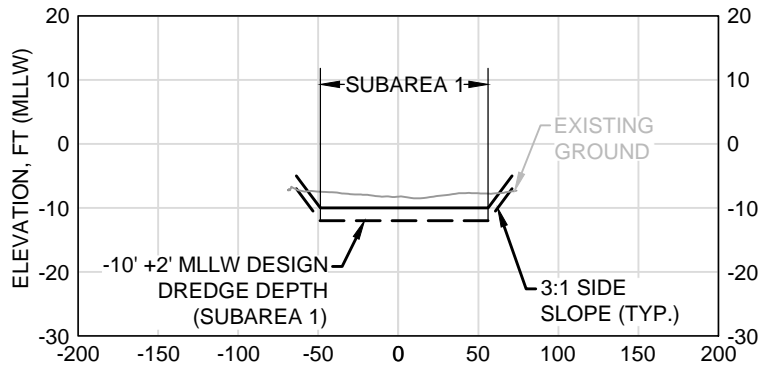
EAST BASIN

EPISODE 1
DREDGE AND PILE
INSTALLATION PLAN

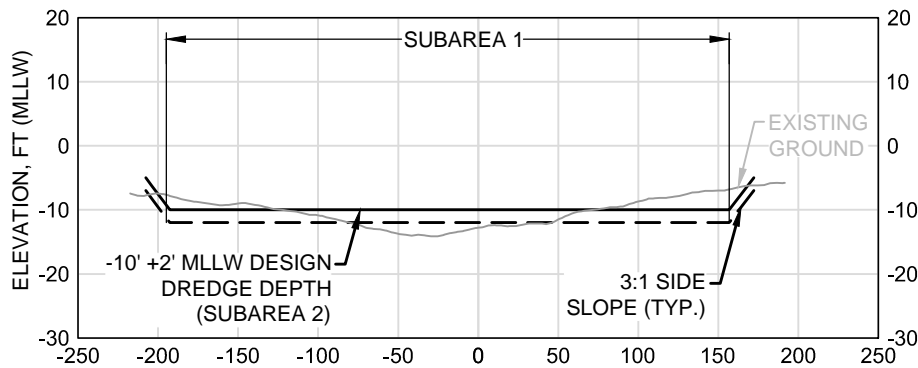
PURPOSE: PROPOSED MAINTENANCE DREDGING IN OYSTER POINT MARINA- SOUTH SAN FRANCISCO FERRY TERMINAL
 DATUM: MLLW = 0.0
 FOTH-CLE ENGINEERING GROUP
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EPISODE 1- EAST BASIN
 GRAPHIC SCALE
 0 75 150
 SCALE IN FEET

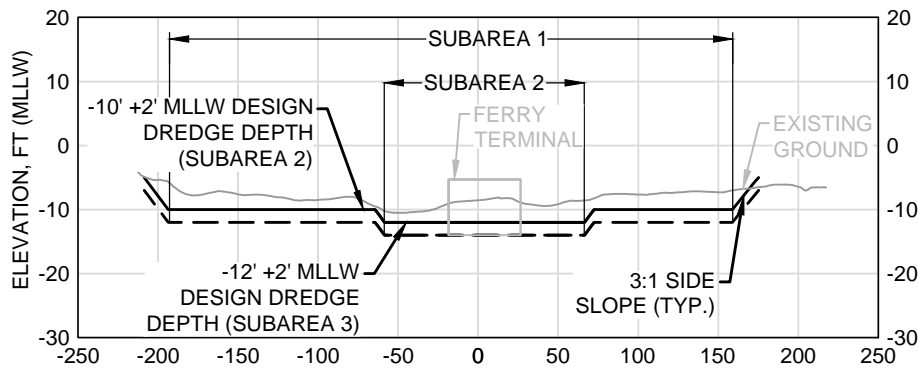
OYSTER POINT MARINA
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 DATE: MAY 2018
 SHEET 4 OF 7



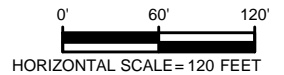
**ENTRANCE & CHANNEL
TYPICAL SECTION A-A'**
HORIZONTAL SCALE: 1"=120'
VERTICAL SCALE: 1"=30'



**SQUARE BASIN
TYPICAL SECTION B-B'**
HORIZONTAL SCALE: 1"=120'
VERTICAL SCALE: 1"=30'



**BERTHING AREA
TYPICAL SECTION C-C'**
HORIZONTAL SCALE: 1"=120'
VERTICAL SCALE: 1"=30'



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PURPOSE: PROPOSED MAINTENANCE DREDGING IN OYSTER POINT MARINA- SOUTH SAN FRANCISCO FERRY TERMINAL
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EPISODE 1- DREDGE SECTIONS
GRAPHIC SCALE
SCALE VARIES

SCALE IN FEET

OYSTER POINT MARINA
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DATE: MAY 2018

EX. BREAKWATER.
TOP EL.=14' MLLW

PROP. THREE-PILE CLUSTER
APPROX. EL.=17' MLLW

BANDS COUNTER-SUNK
(NOTCHED) (TYP.)

MLLW = 0.0'

1 H
6 V

APPROX. EXISTING
GRADE (VARIES)

18" Ø DOUGLAS FIR TIMBER
PILES WITH APPROVED
TREATMENT IN THE STATE
OF CA (ACQ) (TYP.)
TO BE DRIVEN BY
VIBRATORY HAMMER

± 60'
EMBEDMENT

EX. BREAKWATER.
TIP EL.=-41' MLLW

TIP AT APPROX.
-72' MLLW

PILE CLUSTER DETAIL

SCALE: 1"=10'



PILE-CLUSTER DETAIL

GRAPHIC SCALE
SCALE VARIES



OYSTER POINT MARINA
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DATE: MAY 2018

NOTES:

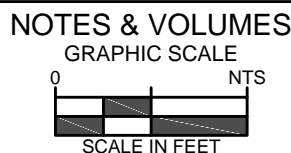
1. RESULTS OF HYDROGRAPHY FROM SURVEY CONDUCTED BY FOTH-CLE ENGINEERING (FOTH-CLE) ON 03/08/2018.
2. DATA IS IN MEAN LOWER LOW WATER (MLLW) BASED ON AVERAGE VALUES ON A 4'X4' GRID.
3. COORDINATES ARE BASED ON THE CALIFORNIA STATE PLANE COORDINATE SYSTEM, ZONE 3.
4. BENCHMARK IS MAG NAIL LOCATED APPROXIMATELY 2068895.114 USN, 6016332.087 USE AT 30.66' MLLW.
5. INFORMATION DEPICTED ON PLAN REPRESENTS THE RESULTS OF HYDROGRAPHIC SURVEYS PERFORMED ON THE DATE LISTED ABOVE AND CAN ONLY BE CONSIDERED AS INDICATING THE SEABED CONDITIONS AT THAT TIME. INTERPOLATED INFORMATION FROM BETWEEN SOUNDING RUNS IS NOT GUARANTEED. SHOALS, OBSTRUCTIONS OR OTHER DIFFERING CONDITIONS MAY EXIST BETWEEN THESE RUNS. NO SURVEYS WERE CONDUCTED TO LOCATE PROPERTY LINES, CHANNEL LIMITS, EASEMENTS, UTILITIES, GEOTECHNICAL FEATURES, SHORELINES, STRUCTURES, HABITATS OR ANY OTHER PHYSICAL FEATURES RELATING TO THE PROJECT SITE, NOR DOES FOTH-CLE WARRANT THE EXISTENCE OR LOCATION OF SAID PHYSICAL FEATURES.

EAST BASIN DREDGE SEDIMENT VOLUME, EPISODE 1

SUBAREA	AREA (±SF)	PROJECT DEPTH (FT, MLLW)	VOLUME (±CY)	2' OD VOLUME (±CY)	TOTAL VOLUME (±CY)
1	291,586	-10	16,546	16,761	33,307
2	22,194	-12	1,670	1,325	2,995
TOTAL	313,780		18,216	18,086	36,302

x:\na_nopolfiles\2017\17414_000_west\17414_200-sf ferry\drawings\survey\sf ferry east basin permit plan

PURPOSE: PROPOSED MAINTENANCE DREDGING IN OYSTER POINT MARINA- SOUTH SAN FRANCISCO FERRY TERMINAL
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