

ISSUED FOR BID

LOCATION MAP

NO SCALE

COUNTY OF SAN MATEO CALIFORNIA

COYOTE POINT MARINA

MAINTENANCE DREDGING AND PILE REPLACEMENT PROJECT

COUNTY PROJECT NO.: OD516, PROJECT FILE NO.: E5061

TOTAL PROJECT AREA, APPROXIMATELY 25.5 ACRES

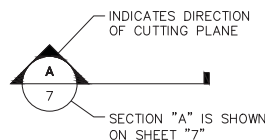
TO BE SUPPLEMENTED BY STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION STANDARD PLANS
DATED 2018 AND ADOPTED BY SAN MATEO COUNTY, FEBRUARY 11, 2020, BY RESOLUTION NO. 077227

ABBREVIATIONS:

CL	CENTERLINE
C/W	COLD WORKED
CLR	CLEAR
CSK	COUNTERSUNK
DFT	DRY FILM THICKNESS
E, EXIST	EXISTING
ELE	ELEVATION
EST	ESTIMATED
FT	FOOT, FEET
Galv	GALVANIZED
H	HORIZONTAL
HSS	HOLLOW STRUCTURAL SECTIONS
I.D.	INNER DIAMETER
LB	POUND(S)
LG	LONG
LT, L	LEFT
MAX	MAXIMUM
MIN	MINIMUM
MLLW	MEAN LOWER LOW WATER
NAD	NORTH AMERICAN DATUM
NTS	NOT TO SCALE
O.D.	OUTER DIAMETER
PL	PLATE
PJP	PARTIAL JOINT PENETRATION
PSI	POUNDS PER SQUARE INCH
R	RADIUS, RADIUS
RT, R	RIGHT
S	SLOPE
SFD-11	SF-11 ALCATRAZ IN-BAY DISPOSAL SITE
SS	STAINLESS STEEL
STA	STATION
SYMM	SYMMETRICAL
TYP	TYPICAL
UHMW	ULTRA HIGH MOLECULAR WEIGHT
V	VERTICAL
XS	EXTRA STRONG
Ø	DIAMETER

LEGEND:

2+00	PROJECT ALIGNMENT AND STATIONING
—	LIMIT OF DREDGE AREA
-4.6	EXISTING BATHYMETRIC SOUNDING
—	PERMIT BOUNDARY
	REQUIRED DREDGE AREA
⊙	EXISTING CHANNEL MARKER
⊙	CONCRETE CHANNEL MARKER PILE
⊙	STEEL GUIDE PILE
⊕	BENCHMARK
⊙	DETAIL NUMBER AND SHEET
XX.X	EXISTING ELEVATION



NOTES:

- CONTRACTOR SHALL CONFINE OPERATIONS AND ACTIVITIES WITHIN THE PROJECT LIMITS, CONSISTING OF ROAD RIGHT-OF-WAY, RIGHTS OF ENTRY AND/OR PROJECT CONFORMS, AS SHOWN ON THE PLANS AND AS DIRECTED BY THE ENGINEER.
- LOCATIONS AND DEPTHS OF EXISTING UTILITIES SHOWN ON THE PLANS ARE APPROXIMATE ONLY. CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING THE UTILITIES TO DETERMINE EXACT LOCATIONS AND DEPTHS. CONTRACTOR SHALL CALL USA NORTH 811 (USA) UNDERGROUND SERVICE ALERT A MINIMUM OF FORTY-EIGHT (48) HOURS IN ADVANCE OF ANY EXCAVATION OR TRENCHING WORK. USA MAY BE CONTACTED EITHER ON-LINE AT USANORTH811.ORG OR BY PHONE BY DIALING (800) 227-2600 OR 811. WHEN CALLING, BE PREPARED TO GIVE LOCATION AND NATURE OF WORK, START DATE, COMPANY NAME, ADDRESS AND TELEPHONE NUMBER.
- PLANS MAY NOT SHOW ALL EXISTING WATER, GAS OR SANITARY SEWER LATERALS. CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFICATION AND PRESERVATION OF ALL SUCH FACILITIES WHICH ARE NOT TO BE RELOCATED.

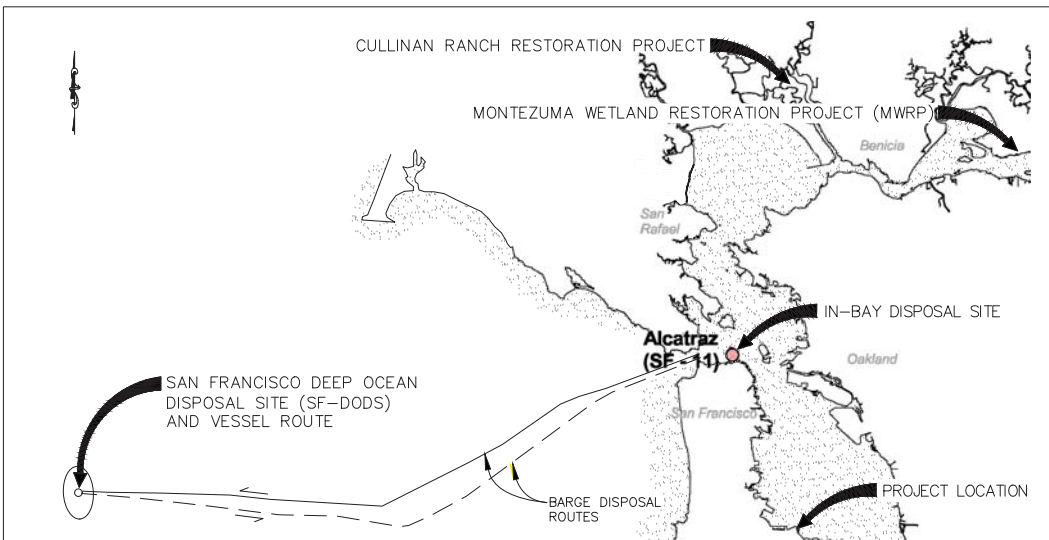


APPROVED:

DATE: 03/18/2022

Ann Mader Stillman

ANN MADER STILLMAN,
INTERIM DIRECTOR OF PUBLIC WORKS
R. C. E. # 47882 / EXPIRES 12-31-2023



DISPOSAL SITE LOCATIONS MAP

NO SCALE

SHEET INDEX:

- TITLE SHEET / GENERAL NOTES
- DREDGING PLAN OVERVIEW
- DREDGING PLAN AREA A
- DREDGING PLAN AREA B AND AREA D
- DREDGING PLAN AREA C AND AREA E
- DREDGING PLAN AREA F
- TYPICAL CROSS SECTIONS (1 OF 3)
- TYPICAL CROSS SECTIONS (2 OF 3)
- TYPICAL CROSS SECTIONS (3 OF 3)
- SITE PHOTOGRAPHS
- PILE INSTALLATION NOTES
- PILE INSTALLATION DETAILS



DESIGNED BY: J. G.	COYOTE POINT MARINA	SCALE: AS SHOWN
CHECKED BY: M. W.	MAINTENANCE DREDGING AND PILE REPLACEMENT	DATE: 03-18-2022
DRAWN BY: D. H.	TITLE SHEET / GENERAL NOTES	FILE NO.: 1/5061
ANN M. STILLMAN, INTERIM DIRECTOR OF PUBLIC WORKS COUNTY SAN MATEO	555 COUNTY CENTER, 5th FLOOR REDWOOD CITY, CALIFORNIA 94063	
FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES	0 1 2 3 4	1 SHEET 1 OF 12

FILENAME: K:\PROJECTS\401-COUNTY OF SAN MATEO PARK DEPARTMENT\COYOTE POINT MARINA 2021 DREDGING CONSTRUCTION PLANS\E5061001.DWG (SHT01)



APPROVED:
DATE: 03/18/2022
Ann Mader Stillman
ANN MADER STILLMAN,
INTERIM DIRECTOR OF PUBLIC WORKS
R. C. E. # 47882 / EXPIRES 12-31-2023

LEGEND:

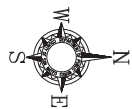
- LIMIT OF DREDGE AREA
-4.6 EXISTING BATHYMETRIC SOUNDING
— PERMIT BOUNDARY
— REQUIRED DREDGE AREA

NOTES:

- CONTROL BENCHMARK (BRASS CAP) LOCATED AT APPROXIMATELY E6034838.494, N2042282.154 (US SURVEY FEET).
- HORIZONTAL DATUM: CALIFORNIA STATE PLANE, ZONE 3, NAD 83, U.S. FEET.
- IN WATER VERTICAL DATUM: MEAN LOWER LOW WATER (MLLW).
- EXISTING BATHYMETRIC SURVEY PROVIDED BY ETRAC, INC. DATED JUNE 28, 2021.
- TAKE EXTREME CARE TO AVOID DAMAGE TO FLOATING DOCKS, ROCK REVETMENTS, SHEET PILE WALLS, AND CONCRETE MOUND BREAKWATERS WHILE DREDGING IN ADJACENT AREAS.

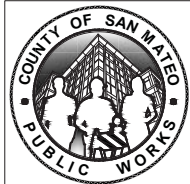
SOURCE:

AERIAL IMAGE ©2022 GOOGLE EARTH PRO DATED SEPTEMBER, 2021.



0 100 200
SCALE IN FEET

ISSUED FOR BID



DESIGNED BY: J. G.		COYOTE POINT MARINA		SCALE: AS SHOWN
CHECKED BY: M. W.		MAINTENANCE DREDGING AND PILE REPLACEMENT		DATE: 03-18-2022
DRAWN BY: D. H.		DREDGING PLAN OVERVIEW		FILE NO.: 1/5061
ANN M. STILLMAN, INTERIM DIRECTOR OF PUBLIC WORKS COUNTY SAN MATEO		555 COUNTY CENTER, 5th FLOOR REDWOOD CITY, CALIFORNIA 94063		
REVISION	DATE			
FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES		0 1 2 3 4		
				2 SHEET 2 OF 12

FILENAME: K:\PROJECTS\401-COUNTY OF SAN MATEO PARK DEPARTMENT\COYOTE POINT MARINA 2021 DREDGING CONSTRUCTION PLANS\5061002.DWG (GH102)

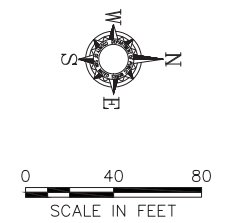
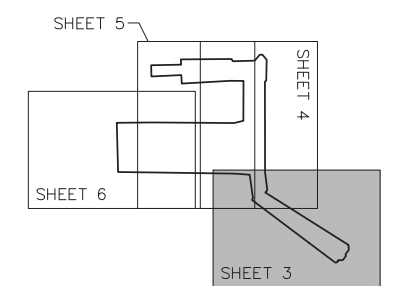


APPROVED:
DATE: 03/18/2022
Ann Mader Stillman
ANN MADER STILLMAN,
INTERIM DIRECTOR OF PUBLIC WORKS
R. C. E. # 47882 / EXPIRES 12-31-2023

LEGEND:

- LIMIT OF DREDGE AREA
- 4.6 EXISTING BATHYMETRIC SOUNDING
- PERMIT BOUNDARY
- REQUIRED DREDGE AREA
- ⊙ CONCRETE NAVIGATION PILE

KEY TO SHEETS:



NOTES:

- HORIZONTAL DATUM: CALIFORNIA STATE PLANE, ZONE 3, NAD 83, U.S. FEET.
- IN WATER VERTICAL DATUM: MEAN LOWER LOW WATER (MLLW).
- EXISTING BATHYMETRIC SURVEY PROVIDED BY ETRAC, INC. DATED JUNE 28, 2021.
- TAKE EXTREME CARE TO AVOID DAMAGE TO FLOATING DOCKS, ROCK REVETMENTS, SHEET PILE WALLS, AND CONCRETE MOUND BREAKWATERS WHILE DREDGING IN ADJACENT AREAS.
- APPROXIMATE LOCATION OF NEW CONCRETE NAVIGATION PILE. EXACT COORDINATES TO BE PROVIDED PRIOR TO CONSTRUCTION.

SOURCE:

AERIAL IMAGE ©2022 GOOGLE EARTH PRO DATED SEPTEMBER, 2021.



ISSUED FOR BID



DESIGNED BY: J. G.		COYOTE POINT MARINA		SCALE: AS SHOWN
CHECKED BY: M. W.		MAINTENANCE DREDGING AND PILE REPLACEMENT		DATE: 03-18-2022
DRAWN BY: D. H.		DREDGING PLAN AREA A		FILE NO.: 1/5061
ANN M. STILLMAN, INTERIM DIRECTOR OF PUBLIC WORKS COUNTY SAN MATEO		555 COUNTY CENTER, 5th FLOOR REDWOOD CITY, CALIFORNIA 94063		
REVISION	DATE	FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES		
0 1 2 3 4				3 SHEET 3 OF 12

FILENAME: K:\PROJECTS\1401-COUNTY OF SAN MATEO PARK DEPARTMENT\COYOTE POINT MARINA 2021 DREDGING CONSTRUCTION PLANS\5061002.DWG (SH103)

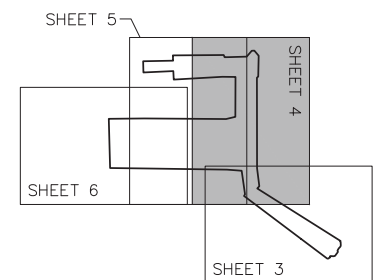


APPROVED:
DATE: 03/18/2022
ANN MADER STILLMAN,
INTERIM DIRECTOR OF PUBLIC WORKS
R. C. E. # 47882 / EXPIRES 12-31-2023

LEGEND:

- LIMIT OF DREDGE AREA
- 4.6 EXISTING BATHYMETRIC SOUNDING
- PERMIT BOUNDARY
- REQUIRED DREDGE AREA
- ⊙ STEEL GUIDE PILE

KEY TO SHEETS:



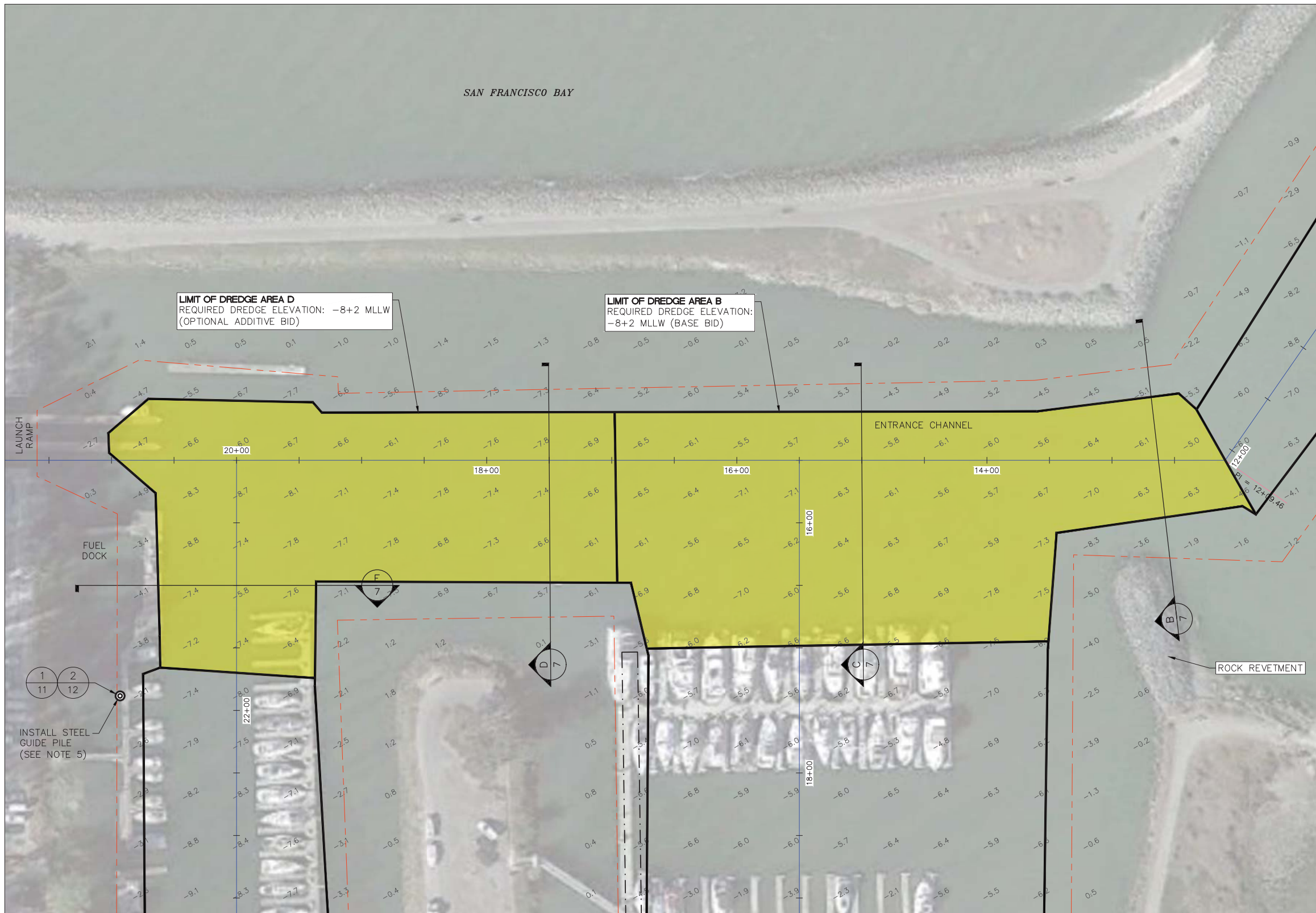
0 40 80
SCALE IN FEET

NOTES:

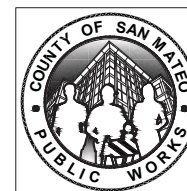
- HORIZONTAL DATUM: CALIFORNIA STATE PLANE, ZONE 3, NAD 83, U.S. FEET.
- IN WATER VERTICAL DATUM: MEAN LOWER LOW WATER (MLLW).
- EXISTING BATHYMETRIC SURVEY PROVIDED BY ETRAC, INC. DATED JUNE 28, 2021.
- TAKE EXTREME CARE TO AVOID DAMAGE TO FLOATING DOCKS, ROCK REVETMENTS, SHEET PILE WALLS, AND CONCRETE MOUND BREAKWATERS WHILE DREDGING IN ADJACENT AREAS.
- APPROXIMATE LOCATION OF NEW STEEL GUIDE PILE. SEE SHEETS 11 AND 12.

SOURCE:

AERIAL IMAGE ©2022 GOOGLE EARTH PRO DATED SEPTEMBER, 2021.



ISSUED FOR BID



DESIGNED BY: J. G.	COYOTE POINT MARINA	SCALE: AS SHOWN
CHECKED BY: M. W.	MAINTENANCE DREDGING AND PILE REPLACEMENT	DATE: 03-18-2022
DRAWN BY: D. H.	DREDGING PLAN AREA B AND AREA D	FILE NO.: 1/5061
ANN M. STILLMAN, INTERIM DIRECTOR OF PUBLIC WORKS COUNTY SAN MATEO		555 COUNTY CENTER, 5th FLOOR REDWOOD CITY, CALIFORNIA 94063
REVISION	DATE	
FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES		0 1 2 3 4 SHEET 4 OF 12

FILENAME: K:\PROJECTS\401-COUNTY OF SAN MATEO PARK DEPARTMENT\COYOTE POINT MARINA 2021 DREDGING CONSTRUCTION PLANS\5061002.DWG (GHD04)

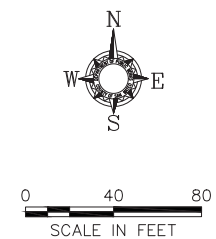
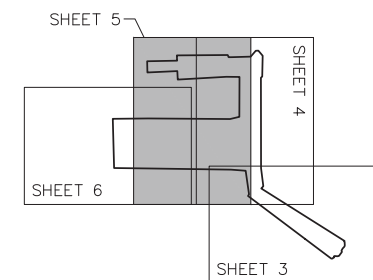


APPROVED:
DATE: 03/18/2022
Ann Mader Stillman
ANN MADER STILLMAN,
INTERIM DIRECTOR OF PUBLIC WORKS
R. C. E. # 47882 / EXPIRES 12-31-2023

LEGEND:

- LIMIT OF DREDGE AREA
- 4.6 EXISTING BATHYMETRIC SOUNDING
- PERMIT BOUNDARY
- REQUIRED DREDGE AREA
- ⊙ GUIDE PILE LOCATION (APPROXIMATE)

KEY TO SHEETS:



NOTES:

- HORIZONTAL DATUM: CALIFORNIA STATE PLANE, ZONE 3, NAD 83, U.S. FEET.
- IN WATER VERTICAL DATUM: MEAN LOWER LOW WATER (MLLW).
- EXISTING BATHYMETRIC SURVEY PROVIDED BY ETRAC, INC. DATED JUNE 28, 2021.
- TAKE EXTREME CARE TO AVOID DAMAGE TO FLOATING DOCKS, ROCK REVETMENTS, SHEET PILE WALLS, AND CONCRETE MOUND BREAKWATERS WHILE DREDGING IN ADJACENT AREAS.
- SEDIMENT UNDER THE HEADWALK AT DOCKS 27, 28, AND 29 MUST BE REMOVED TO A MINIMUM ELEVATION OF -4' MLLW.
- APPROXIMATE LOCATION OF NEW STEEL GUIDE PILE. SEE SHEETS 11 AND 12.

SOURCE:

AERIAL IMAGE ©2022 GOOGLE EARTH PRO DATED SEPTEMBER, 2021.



ISSUED FOR BID

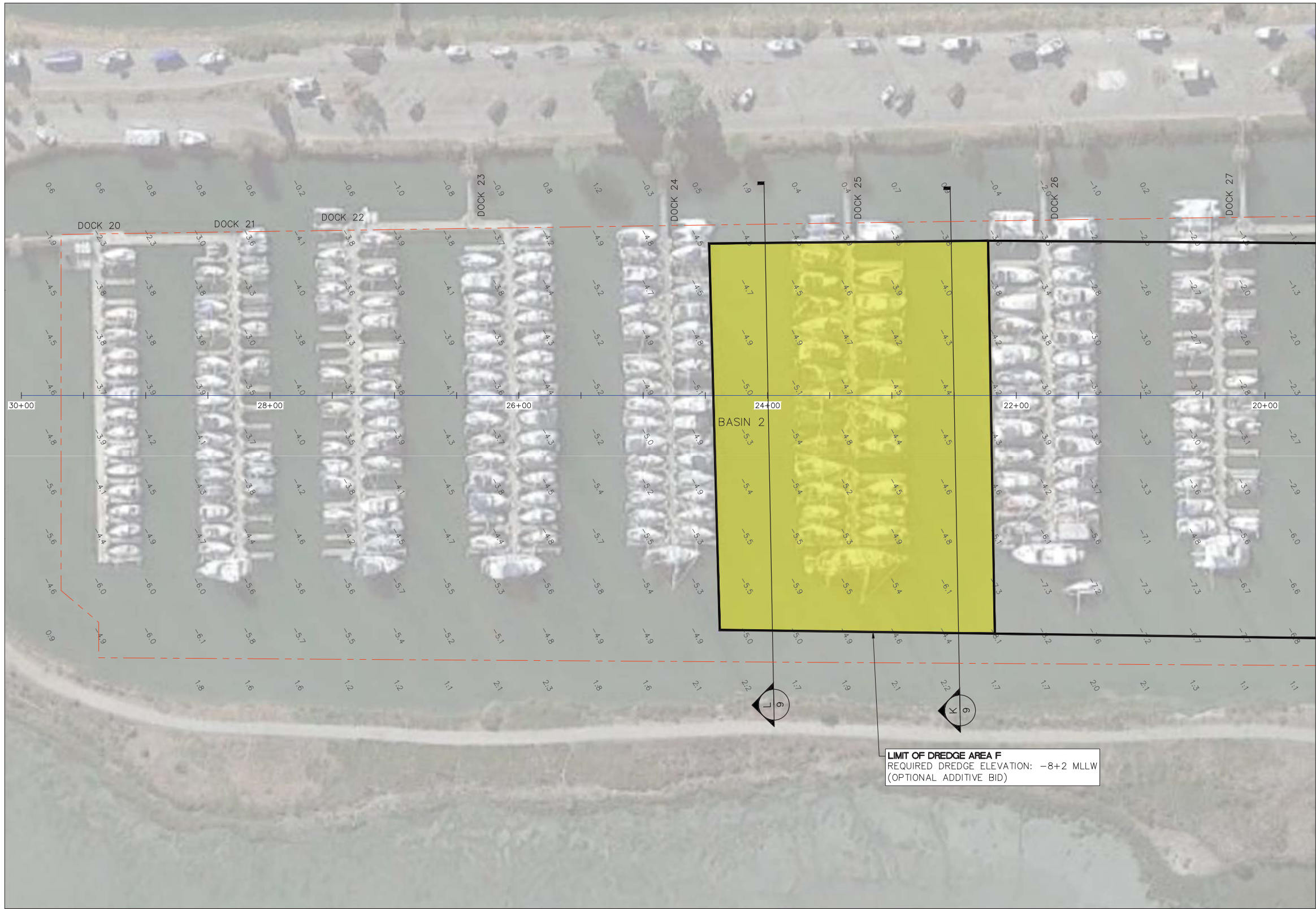


DESIGNED BY: J. G.		COYOTE POINT MARINA		SCALE: AS SHOWN
CHECKED BY: M. W.		MAINTENANCE DREDGING AND PILE REPLACEMENT		DATE: 03-18-2022
DRAWN BY: D. H.		DREDGING PLAN AREA C AND AREA E		FILE NO.: 1/5061
ANN M. STILLMAN, INTERIM DIRECTOR OF PUBLIC WORKS COUNTY SAN MATEO		555 COUNTY CENTER, 5th FLOOR REDWOOD CITY, CALIFORNIA 94063		
REVISION	DATE	FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES		
0 1 2 3 4				5 SHEET 5 OF 12

FILENAME: K:\PROJECTS\401-COUNTY OF SAN MATEO PARK DEPARTMENT\COYOTE POINT MARINA 2021 DREDGING\CONSTRUCTION PLANS\5061002.DWG (G105)



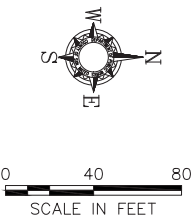
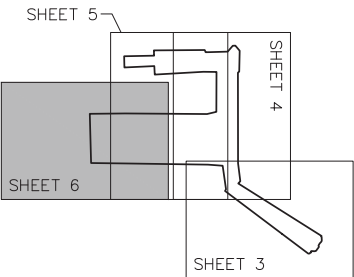
APPROVED:
DATE: 03/18/2022
Ann Mader Stillman
ANN MADER STILLMAN,
INTERIM DIRECTOR OF PUBLIC WORKS
R. C. E. # 47882 / EXPIRES 12-31-2023



LEGEND:

- LIMIT OF DREDGE AREA
- 4.6 EXISTING BATHYMETRIC SOUNDING
- PERMIT BOUNDARY
- REQUIRED DREDGE AREA

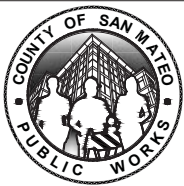
KEY TO SHEETS:



- NOTES:
- HORIZONTAL DATUM: CALIFORNIA STATE PLANE, ZONE 3, NAD 83, U.S. FEET.
 - IN WATER VERTICAL DATUM: MEAN LOWER LOW WATER (MLLW).
 - EXISTING BATHYMETRIC SURVEY PROVIDED BY ETRAC, INC. DATED JUNE 28, 2021.
 - TAKE EXTREME CARE TO AVOID DAMAGE TO FLOATING DOCKS, ROCK REVETMENTS, SHEET PILE WALLS, AND CONCRETE MOUND BREAKWATERS WHILE DREDGING IN ADJACENT AREAS.

SOURCE:
AERIAL IMAGE ©2022 GOOGLE EARTH PRO DATED SEPTEMBER, 2021.

ISSUED FOR BID

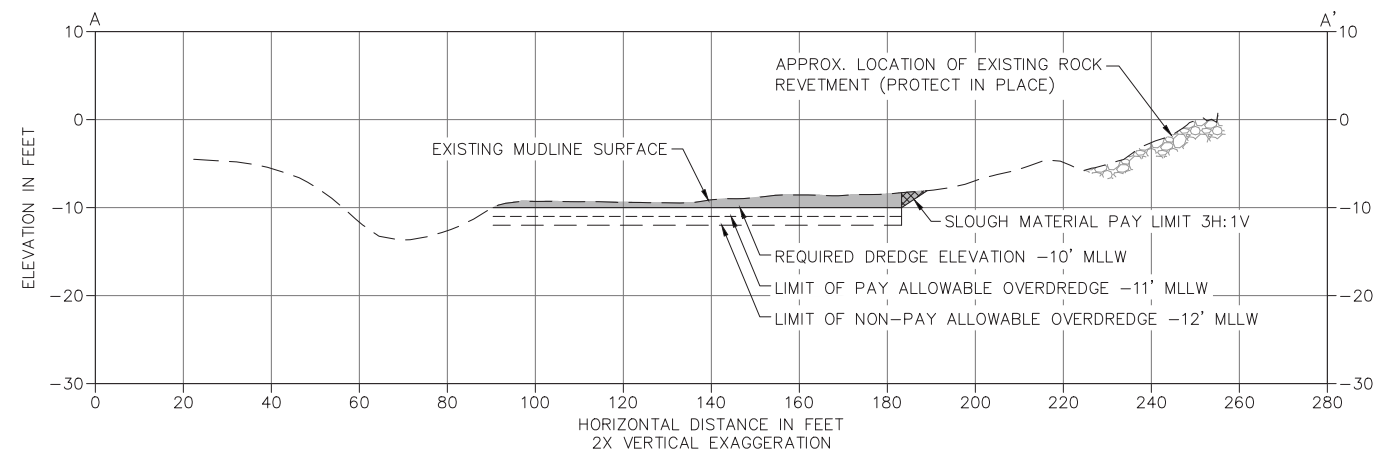


		DESIGNED BY: J. G.	COYOTE POINT MARINA		SCALE: AS SHOWN
		CHECKED BY: M. W.	MAINTENANCE DREDGING AND PILE REPLACEMENT		DATE: 03-18-2022
		DRAWN BY: D. H.	DREDGING PLAN AREA F		FILE NO.: 1/5061
		ANN M. STILLMAN, INTERIM DIRECTOR OF PUBLIC WORKS COUNTY SAN MATEO		555 COUNTY CENTER, 5th FLOOR REDWOOD CITY, CALIFORNIA 94063	
REVISION	DATE				
		FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES			
		<div><div>0</div><div>1</div><div>2</div><div>3</div><div>4</div></div>			
		6 SHEET 6 OF 12			

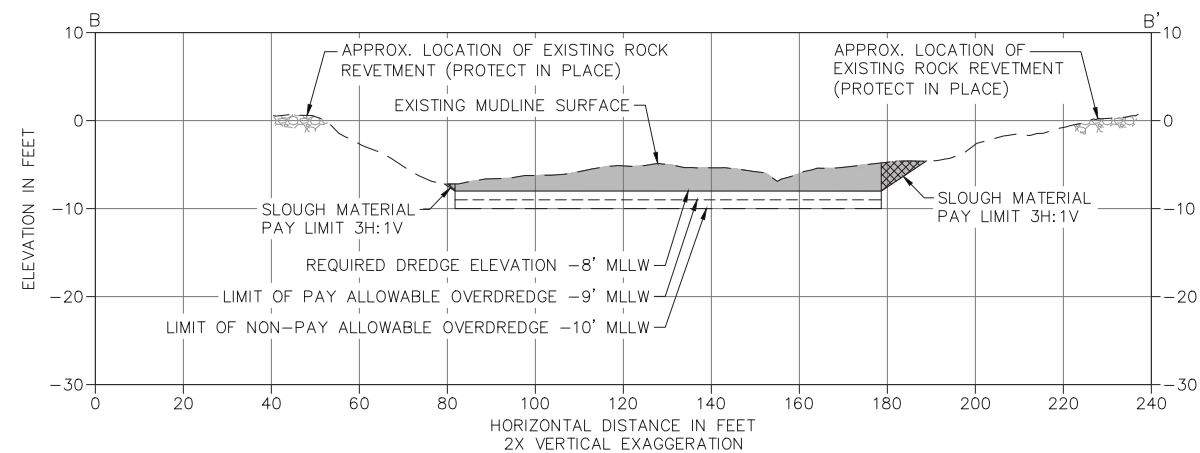
FILENAME: K:\PROJECTS\401-COUNTY OF SAN MATEO PARK DEPARTMENT\COYOTE POINT MARINA 2021 DREDGING CONSTRUCTION PLANS\5061002.DWG (GHT06)



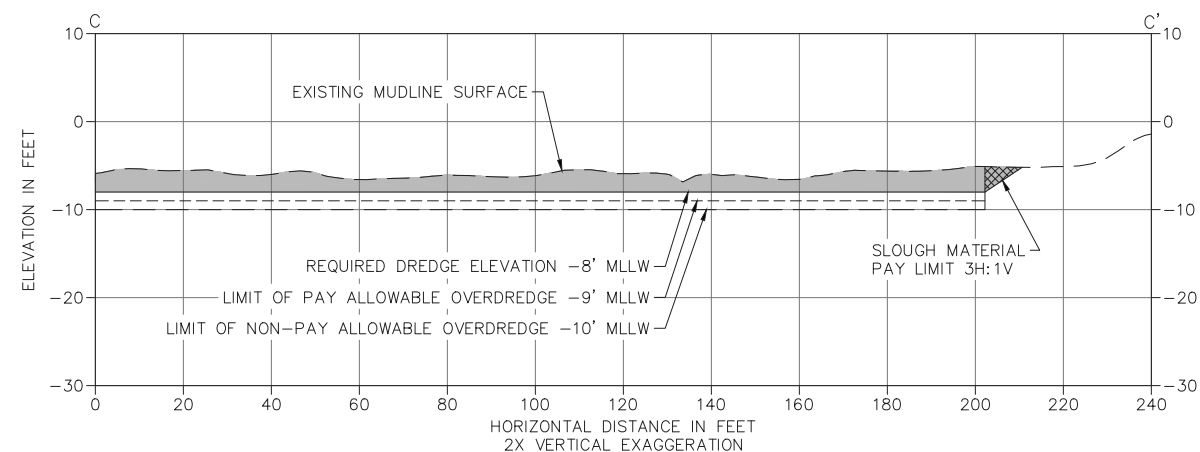
APPROVED:
DATE: 03/18/2022
ANN MADER STILLMAN,
INTERIM DIRECTOR OF PUBLIC WORKS
R. C. E. # 47882 / EXPIRES 12-31-2023



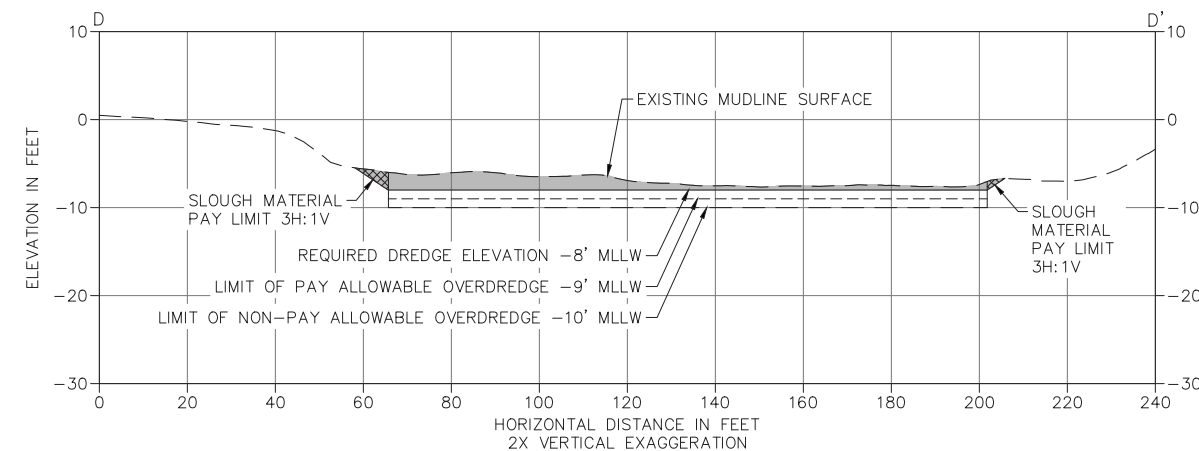
A TYPICAL SECTION-DREDGE AREA A
3 HORIZ. SCALE: 1" = 10'
VERT. SCALE: 1" = 20'



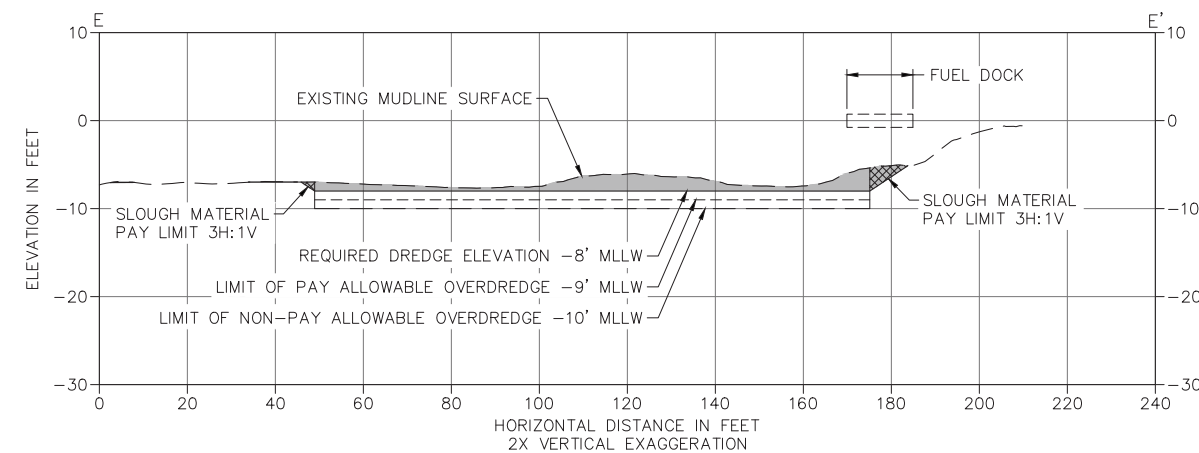
B TYPICAL SECTION-DREDGE AREA B
4 HORIZ. SCALE: 1" = 10'
VERT. SCALE: 1" = 20'



C TYPICAL SECTION-DREDGE AREA B
4 HORIZ. SCALE: 1" = 10'
VERT. SCALE: 1" = 20'



D TYPICAL SECTION-DREDGE AREA D
4 HORIZ. SCALE: 1" = 10'
VERT. SCALE: 1" = 20'



E TYPICAL SECTION-DREDGE AREA D
4 HORIZ. SCALE: 1" = 10'
VERT. SCALE: 1" = 20'

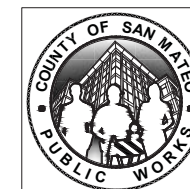
NOTES:

- EXISTING SURFACE BASED ON SURVEY PERFORMED BY ETRAC, INC. ON JUNE 8, 2021.
- NOT ALL EXISTING STRUCTURES ARE SHOWN FOR CLARITY.
- SEDIMENT MAY SLOUGH INTO DREDGED AREAS FROM THE ADJACENT SIDE SLOPES. THIS SEDIMENT SHALL BE REMOVED FROM WITHIN THE DREDGE PRISM AS NECESSARY TO ACHIEVE THE REQUIRED DREDGE ELEVATION. ALL MATERIAL THAT SLOUGHS FROM OUTSIDE THE DREDGE PRISM BOUNDARY WILL BE PAID TO A LIMIT OF 3H:1V AS SHOWN BY THE POST-DREDGE SURVEY.
- LOCATION AND EXTENTS OF ROCK REVETMENT ARE APPROXIMATE AND INTENDED FOR GENERAL REFERENCE ONLY.
- DIMENSIONS OF DOCKS VARY. CONTRACTOR SHALL INSPECT ALL MARINA FACILITIES PRIOR TO MOBILIZATION TO DETERMINE EQUIPMENT ACCESS RESTRICTIONS.
- CONTRACTOR SHALL ACHIEVE REQUIRED ELEVATIONS AND GRADES IN OPEN WATER AREAS, FAIRWAYS, AND SLIPS. SEDIMENT UNDER FLOATING DOCKS DOES NOT HAVE TO BE REMOVED (WITH THE EXCEPTION OF THE HEADWALK ON DOCKS 27, 28, AND 29, SEE SHEET 8). HOWEVER, IF DREDGED, SEDIMENT FROM UNDER THE FLOATING DOCKS WILL BE PAID FOR AT THE CONTRACTED UNIT RATE FOR THAT DREDGE AREA. ALL DREDGED SEDIMENT MUST BE REMOVED FROM SITE AND DISPOSED OF AS REQUIRED IN THE SPECIFICATIONS.
- DREDGING IN EXCESS OF THE PERMITTED ALLOWABLE OVERDEPTH ELEVATION MAY RESULT IN DAMAGE OR UNDERMINING TO EXISTING STRUCTURES AND IS STRICTLY PROHIBITED. ANY DAMAGE TO EXISTING STRUCTURES SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE AND TO THE OWNER'S SATISFACTION.
- DREDGE AREAS VARY IN WIDTH.

LEGEND:

- REQUIRED DREDGE AREA
- SIDE SLOPE AREA

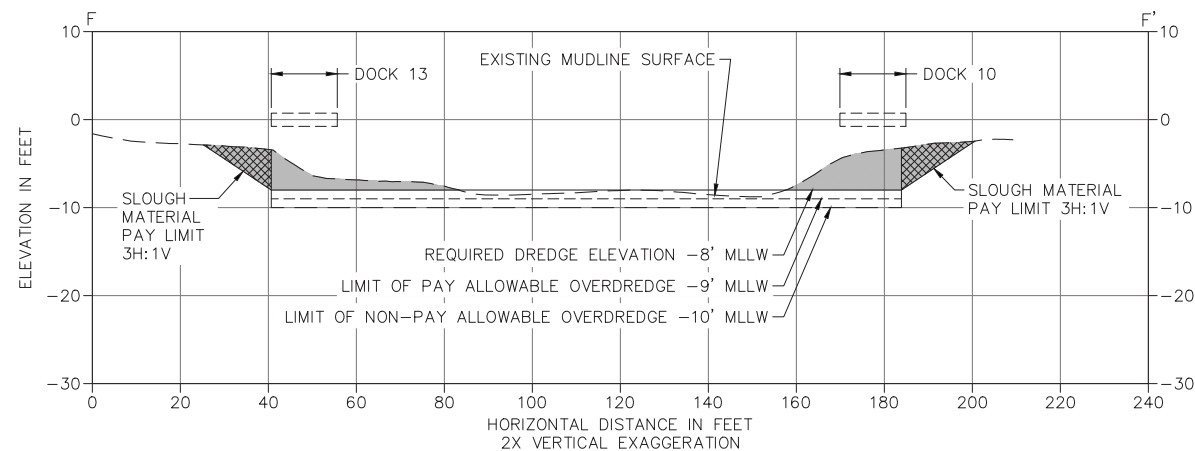
ISSUED FOR BID



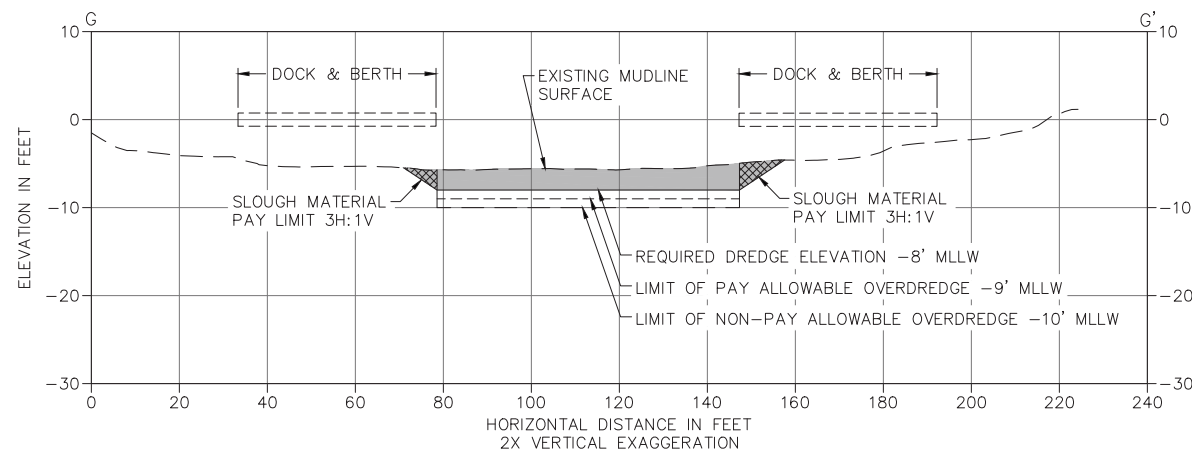
DESIGNED BY: J. G.	COYOTE POINT MARINA	SCALE: AS SHOWN
CHECKED BY: M. W.	MAINTENANCE DREDGING AND PILE REPLACEMENT	DATE: 03-18-2022
DRAWN BY: D. H.	TYPICAL CROSS SECTIONS (1 OF 3)	FILE NO.: 1/5061
ANN M. STILLMAN, INTERIM DIRECTOR OF PUBLIC WORKS COUNTY SAN MATEO		555 COUNTY CENTER, 5th FLOOR REDWOOD CITY, CALIFORNIA 94063
REVISION	DATE	
FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES		7 SHEET 7 OF 12



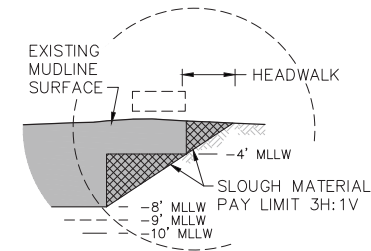
APPROVED:
DATE: 03/18/2022
ANN MADER STILLMAN,
INTERIM DIRECTOR OF PUBLIC WORKS
R. C. E. # 47882 / EXPIRES 12-31-2023



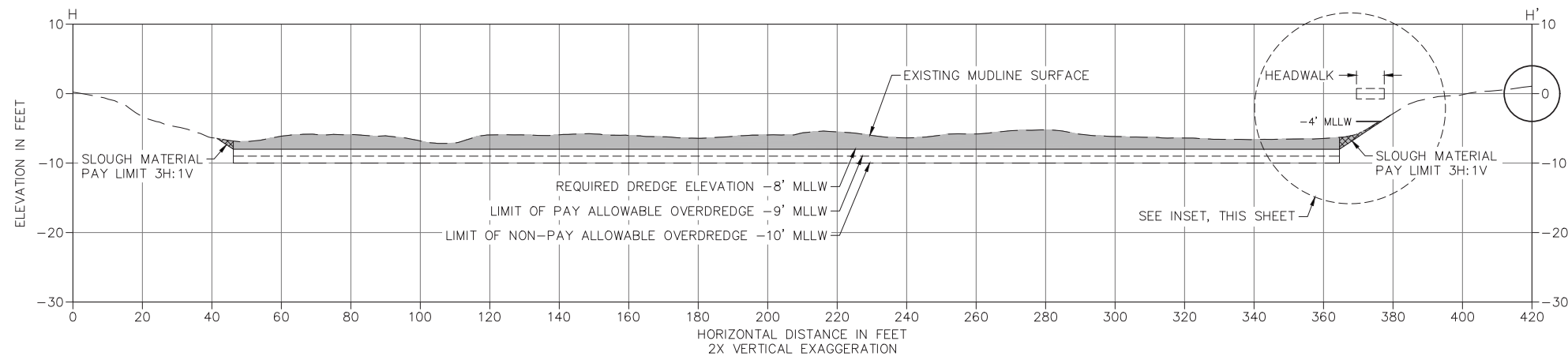
F
5
TYPICAL SECTION-DREDGE AREA E
HORIZ. SCALE: 1" = 10'
VERT. SCALE: 1" = 20'



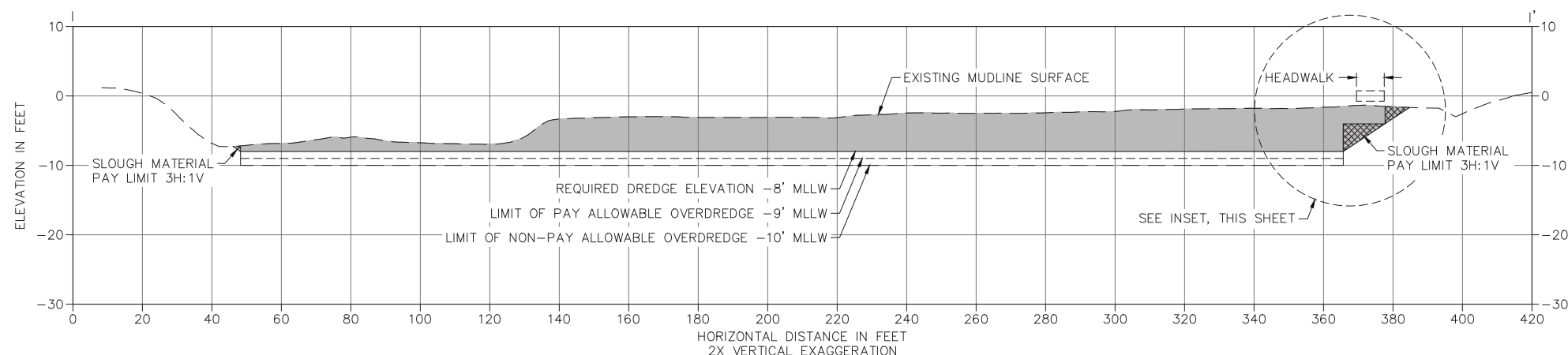
G
5
TYPICAL SECTION-DREDGE AREA E
HORIZ. SCALE: 1" = 10'
VERT. SCALE: 1" = 20'



**INSET: TYPICAL UNDER HEADWALK
ON DOCKS 27, 28, AND 29**
NOT TO SCALE



H
5
TYPICAL SECTION-DREDGE AREA C
HORIZ. SCALE: 1" = 10'
VERT. SCALE: 1" = 20'



I
5
TYPICAL SECTION-DREDGE AREA C
HORIZ. SCALE: 1" = 10'
VERT. SCALE: 1" = 20'

NOTES:

- EXISTING SURFACE BASED ON SURVEY PERFORMED BY ETRAC, INC. ON JUNE 8, 2021.
- NOT ALL EXISTING STRUCTURES ARE SHOWN FOR CLARITY.
- SEDIMENT MAY SLOUGH INTO DREDGED AREAS FROM THE ADJACENT SIDE SLOPES. THIS SEDIMENT SHALL BE REMOVED FROM WITHIN THE DREDGE PRISM AS NECESSARY TO ACHIEVE THE REQUIRED DREDGE ELEVATION. ALL MATERIAL THAT SLOUGHS FROM OUTSIDE THE DREDGE PRISM BOUNDARY WILL BE PAID TO A LIMIT OF 3H:1V.
- LOCATION AND EXTENTS OF ROCK REVETMENT ARE APPROXIMATE AND INTENDED FOR GENERAL REFERENCE ONLY.
- DIMENSIONS OF DOCKS VARY. CONTRACTOR SHALL INSPECT ALL MARINA FACILITIES PRIOR TO MOBILIZATION TO DETERMINE EQUIPMENT ACCESS RESTRICTIONS.
- CONTRACTOR SHALL ACHIEVE REQUIRED ELEVATIONS AND GRADES IN OPEN WATER AREAS, FAIRWAYS, AND SLIPS. ALTHOUGH NOT REQUIRED, SEDIMENT UNDER FLOATING DOCKS DOES NOT HAVE TO BE REMOVED (WITH THE EXCEPTION OF THE HEADWALK ON DOCKS 27, 28, AND 29, SEE NOTE 7). HOWEVER, IF DREDGED, WILL BE PAID FOR AT THE CONTRACTED UNIT RATE FOR THAT DREDGE AREA. ALL DREDGED SEDIMENT MUST BE REMOVED FROM SITE AND DISPOSED OF AS REQUIRED IN THE SPECIFICATIONS.
- SEDIMENT FROM UNDER THE HEADWALK AT DOCKS 27, 28, AND 29 MUST BE REMOVED TO A MINIMUM ELEVATION OF -4' MLLW.
- DREDGING IN EXCESS OF THE PERMITTED ALLOWABLE OVERDEPTH ELEVATION MAY RESULT IN DAMAGE OR UNDERMINING TO EXISTING STRUCTURES AND IS STRICTLY PROHIBITED. ANY DAMAGE TO EXISTING STRUCTURES SHALL BE REPAIRED BY THE CONTRACTOR TO THE OWNER'S SATISFACTION.
- DREDGE AREAS VARY IN WIDTH.

LEGEND:

- REQUIRED DREDGE AREA
- SIDE SLOPE AREA

ISSUED FOR BID

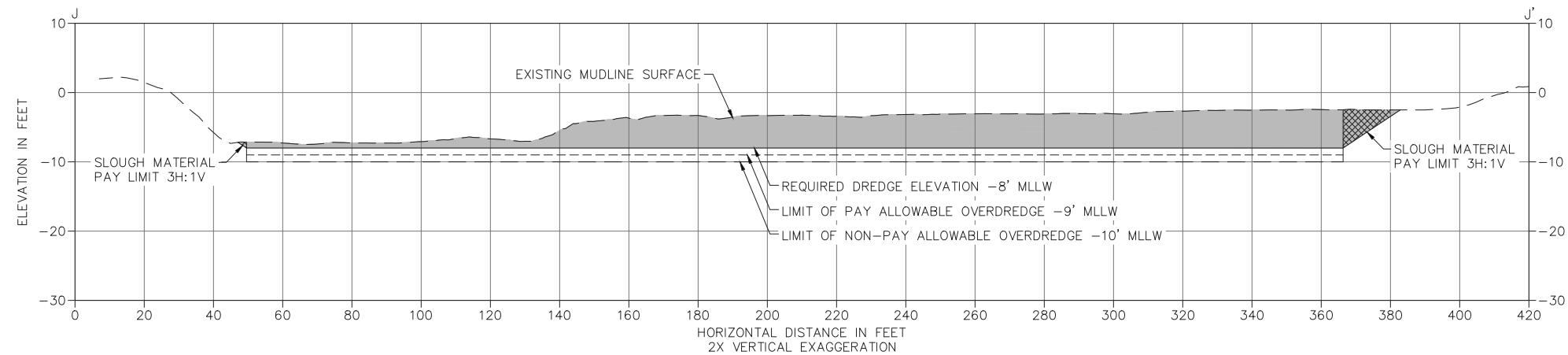


DESIGNED BY: J. G.	COYOTE POINT MARINA	SCALE: AS SHOWN
CHECKED BY: M. W.	MAINTENANCE DREDGING AND PILE REPLACEMENT	DATE: 03-18-2022
DRAWN BY: D. H.	TYPICAL CROSS SECTIONS (2 OF 3)	FILE NO.: 1/5061
ANN M. STILLMAN, INTERIM DIRECTOR OF PUBLIC WORKS COUNTY SAN MATEO	555 COUNTY CENTER, 5th FLOOR REDWOOD CITY, CALIFORNIA 94063	
FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES	0 1 2 3 4	8 SHEET 8 OF 12

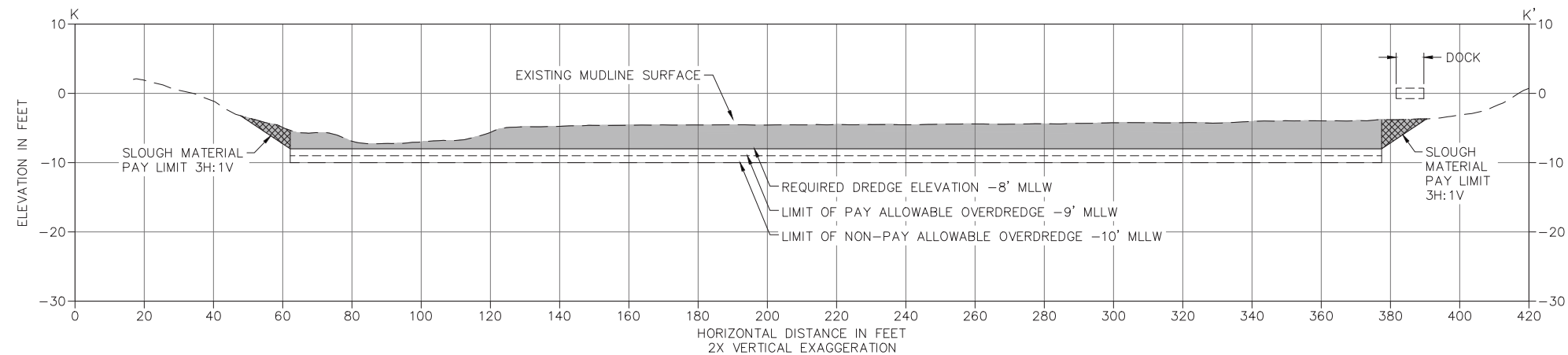
FILENAME: K:\PROJECTS\1401-COUNTY OF SAN MATEO PARK DEPARTMENT\COYOTE POINT MARINA 2021 DREDGING CONSTRUCTION PLANS\5061002.DWG (G108)



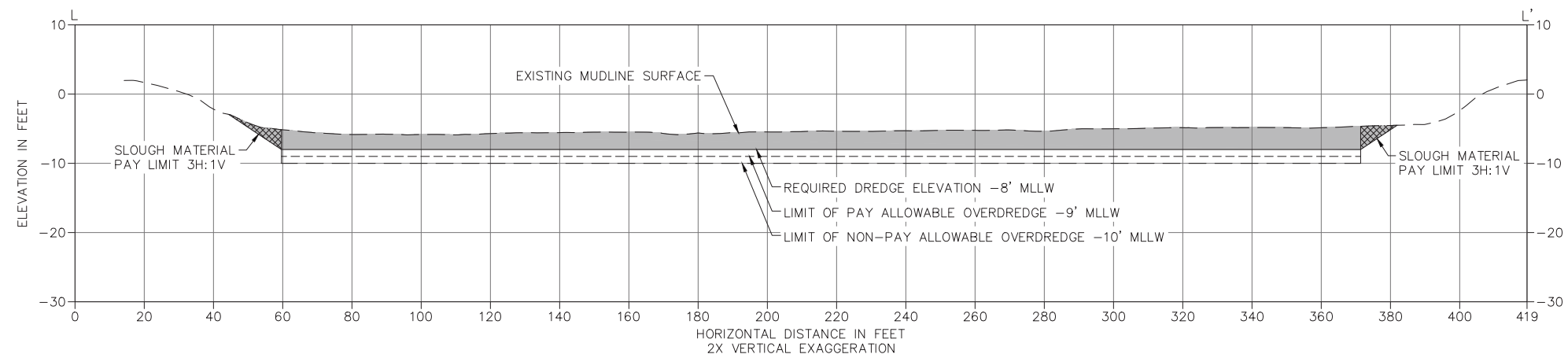
APPROVED:
DATE: 03/18/2022
ANN MADER STILLMAN,
INTERIM DIRECTOR OF PUBLIC WORKS
R. C. E. # 47882 / EXPIRES 12-31-2023



J
5 TYPICAL SECTION-DREDGE AREA C
HORIZ. SCALE: 1" = 10'
VERT. SCALE: 1" = 20'



K
6 TYPICAL SECTION-DREDGE AREA F
HORIZ. SCALE: 1" = 10'
VERT. SCALE: 1" = 20'



L
6 TYPICAL SECTION-DREDGE AREA F
HORIZ. SCALE: 1" = 10'
VERT. SCALE: 1" = 20'

NOTES:

- EXISTING SURFACE BASED ON SURVEY PERFORMED BY ETRAC, INC. ON JUNE 8, 2021.
- NOT ALL EXISTING STRUCTURES ARE SHOWN FOR CLARITY.
- SEDIMENT MAY SLOUGH INTO DREDGED AREAS FROM THE ADJACENT SIDE SLOPES. THIS SEDIMENT SHALL BE REMOVED FROM WITHIN THE DREDGE PRISM AS NECESSARY TO ACHIEVE THE REQUIRED DREDGE ELEVATION. ALL MATERIAL THAT SLOUGHS FROM OUTSIDE THE DREDGE PRISM BOUNDARY WILL BE PAID TO A LIMIT OF 3H:1V.
- LOCATION AND EXTENTS OF ROCK REVETMENT ARE APPROXIMATE AND INTENDED FOR GENERAL REFERENCE ONLY.
- DIMENSIONS OF DOCKS VARY. CONTRACTOR SHALL INSPECT ALL MARINA FACILITIES PRIOR TO MOBILIZATION TO DETERMINE EQUIPMENT ACCESS RESTRICTIONS.
- CONTRACTOR SHALL ACHIEVE REQUIRED ELEVATIONS AND GRADES IN OPEN WATER AREAS, FAIRWAYS, AND SLIPS. ALTHOUGH NOT REQUIRED, SEDIMENT UNDER FLOATING DOCKS DOES NOT HAVE TO BE REMOVED (EXCEPT WHERE NOTED, SEE NOTE 7). HOWEVER, IF DREDGED, WILL BE PAID FOR AT THE CONTRACTED UNIT RATE FOR THAT DREDGE AREA. ALL DREDGED SEDIMENT MUST BE REMOVED FROM SITE AND DISPOSED OF AS REQUIRED IN THE SPECIFICATIONS.
- SEDIMENT FROM UNDER THE HEADWALK AT DOCKS 27, 28, AND 29 MUST BE REMOVED TO A MINIMUM ELEVATION OF -4' MLLW.
- DREDGING IN EXCESS OF THE PERMITTED ALLOWABLE OVERDEPTH ELEVATION MAY RESULT IN DAMAGE OR UNDERMINING TO EXISTING STRUCTURES AND IS STRICTLY PROHIBITED. ANY DAMAGE TO EXISTING STRUCTURES SHALL BE REPAIRED BY THE CONTRACTOR TO THE OWNER'S SATISFACTION.
- DREDGE AREAS VARY IN WIDTH.

LEGEND:

- REQUIRED DREDGE AREA
▨ SIDE SLOPE AREA

ISSUED FOR BID



DESIGNED BY: J. G.	COYOTE POINT MARINA	SCALE: AS SHOWN
CHECKED BY: M. W.	MAINTENANCE DREDGING AND PILE REPLACEMENT	DATE: 03-18-2022
DRAWN BY: D. H.	TYPICAL CROSS SECTIONS (3 OF 3)	FILE NO.: 1/5061
ANN M. STILLMAN, INTERIM DIRECTOR OF PUBLIC WORKS COUNTY SAN MATEO	555 COUNTY CENTER, 5th FLOOR REDWOOD CITY, CALIFORNIA 94063	
FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES	0 1 2 3 4	9 SHEET 9 OF 12

FILENAME: K:\PROJECTS\1401-COUNTY OF SAN MATEO PARK DEPARTMENT\COYOTE POINT MARINA 2021 DREDGING CONSTRUCTION PLANS\5061002.DWG (GHT09)



APPROVED:
DATE: 03/18/2022
Ann Mader Stillman
ANN MADER STILLMAN,
INTERIM DIRECTOR OF PUBLIC WORKS
R. C. E. # 47882 / EXPIRES 12-31-2023



PHOTO 1: DOCK 10 LOOKING EAST
(DREDGE AREA E)



PHOTO 2: FUEL DOCK LOOKING EAST
(DREDGE AREAS A, B, AND D)



PHOTO 3: LAUNCH RAMP LOOKING NORTHEAST
(DREDGE AREA D)



PHOTO 4: BASIN 1 FAIRWAY LOOKING SOUTH
(DREDGE AREAS D AND E)



PHOTO 5: BASIN 2 FAIRWAY AND CHANNEL ENTRANCE LOOKING SOUTHEAST
(DREDGE AREAS A, B, C, F, AND G)



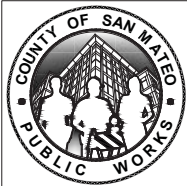
PHOTO 6: CHANNEL ENTRANCE AND RUBBLE MOUND LOOKING EAST
(DREDGE AREA A)



PHOTO 7: BASIN 2 DOCKS LOOKING WEST
(DREDGE AREAS F AND G)

NOTE:
SITE PHOTOGRAPHS ARE INFORMATIONAL ONLY AND DO NOT TAKE THE PLACE OF A PRE-BID SITE INSPECTION.

ISSUED FOR BID



		DESIGNED BY: J. G.	COYOTE POINT MARINA MAINTENANCE DREDGING AND PILE REPLACEMENT SITE PHOTOS	SCALE: AS SHOWN
		CHECKED BY: M. W.		DATE: 03-18-2022
		DRAWN BY: D. H.		FILE NO.: 1/5061
REVISION	DATE	ANN M. STILLMAN, INTERIM DIRECTOR OF PUBLIC WORKS COUNTY SAN MATEO		555 COUNTY CENTER, 5th FLOOR REDWOOD CITY, CALIFORNIA 94063
		FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES		

FILENAME: K:\PROJECTS\401-COUNTY OF SAN MATEO PARK DEPARTMENT\COYOTE POINT MARINA 2021 DREDGING CONSTRUCTION PLANS\5061002.DWG (SHT10)

GENERAL:

1. PILING CONTRACTOR SHALL COORDINATE ALL WORK WITH GENERAL CONTRACTORS AND ALL OTHER SUBCONTRACTORS CONTRACTED DIRECTLY WITH THE COUNTY, AS APPLICABLE, FOR SCHEDULE AND WORK COORDINATION REQUIREMENTS. THE OWNER SHALL BEAR NO RESPONSIBILITY FOR FAILURE ON THE PART OF THE CONTRACTOR TO COORDINATE ACTIVITIES OF CONTRACTOR'S EMPLOYEES OR SUBCONTRACTORS.
2. THE CONTRACTOR IS RESPONSIBLE TO CONFIRM ALL EXISTING FIELD CONDITIONS OF THE SITE AND CONFIRM DIMENSIONS AND SURVEY INFORMATION AGAINST THESE DRAWINGS BEFORE COMMENCING WORK.
3. THE CONTRACTOR SHALL NOT WILLFULLY PROCEED WITH CONSTRUCTION AS DESIGNED WHEN IT IS OBVIOUS THAT UNKNOWN OBSTRUCTIONS, AREA DISCREPANCIES, AND/OR GRADE DIFFERENCES EXIST THAT MAY NOT HAVE BEEN KNOWN. SUCH CONDITIONS SHALL IMMEDIATELY BE BROUGHT TO THE ATTENTION OF THE COUNTY. THE CONTRACTOR SHALL ASSUME FULL RESPONSIBILITY FOR ALL NECESSARY REVISIONS DUE TO FAILURE TO GIVE SUCH NOTIFICATIONS.
4. DURING CONSTRUCTION THE CONTRACTOR SHALL STRICTLY ENFORCE ALL APPLICABLE SAFETY LAWS (I.E., OSHA, CAL-OSHA) AND SHALL BE RESPONSIBLE FOR JOBSITE SAFETY.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING TEMPORARY SUPPORTS AND STAGING PLATFORMS REQUIRED FOR REMOVAL WORK.
6. THE CONTRACTOR SHALL PROVIDE AND ASSUME RESPONSIBILITY FOR THE DESIGN AND CONSTRUCTION OF ALL TEMPORARY BRACING, SHORING, GUYS, ETC. NECESSARY TO PROTECT THE STRUCTURE FROM DAMAGE RESULTING FROM PROJECT WORK.
7. THE CONTRACTOR SHALL REMOVE FROM THE SITE ALL DEBRIS AND UNSUITABLE MATERIAL GENERATED BY THE CONTRACTOR'S OPERATIONS.
8. THE CONSTRUCTION WORK SHALL NOT BLOCK MARINA ENTRANCE CHANNEL.
9. ALL WORK SHOWN IS NEW UNLESS NOTED AS EXISTING.
10. ELEVATIONS ARE RELATIVE TO MEAN LOWER LOW WATER DATUM AT THE LOCALITY. SEE SHEET 1 FOR DREDGE LOCATION MAP.

CODES:

1. 2019 CALIFORNIA BUILDING CODE (CBC)
2. AMERICAN SOCIETY OF CIVIL ENGINEERS (ASCE), ASCE 7-16
3. AMERICAN CONCRETE INSTITUTE (ACI), ACI-318-17
4. AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC), STEEL CONSTRUCTION MANUAL (AISC 325), 15TH EDITION
5. AMERICAN WELDING SOCIETY (AWS) D1.1
6. CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES, AISC 303-16

CONCRETE PILING:

1. GENERAL
 - a. CONCRETE PILE MANUFACTURERS SHALL PROVIDE ALL NECESSARY STRUCTURAL CALCULATIONS, SCALED SHOP DRAWINGS, AND ALL OTHER SUPPORTING DOCUMENTATION REQUIRED BY THE GOVERNING JURISDICTION FOR PERMIT. ALL SHOP DRAWINGS AND CALCULATIONS SHALL BE SIGNED AND STAMPED BY A STATE OF CALIFORNIA LICENSED PROFESSIONAL ENGINEER. SHOP DRAWINGS SHALL SHOW ALL DETAILS AND OVERALL CONFIGURATIONS NECESSARY TO CLEARLY DESCRIBE THE WORK AND MATERIALS OF CONSTRUCTION.

CONCRETE PILING (CONTINUED):

2. MATERIAL SPECIFICATIONS
 - a. PILING SHALL BE 14-INCH-SQUARE (NOMINAL SIZE) CONCRETE PILE AND 60 FEET IN LENGTH. PILE SHALL BE DRIVEN TO A DEPTH OF 25 FEET BELOW THE MUDLINE OR AS DIRECTED BY THE COUNTY'S ENGINEER.
 - b. PRE-FABRICATED, PRE-CAST PILE MATERIAL CERTIFICATES AND CONCRETE MIX DESIGN SHALL BE SUBMITTED BY THE CONTRACTOR AND APPROVED BY COUNTY'S ENGINEER PRIOR TO CONSTRUCTION.
 - c. PILING SHALL HAVE PRE-STRESSED STEEL STRAND REINFORCEMENT.
 - d. CONCRETE COVER FOR ALL REINFORCEMENT SHALL BE 2-1/2 INCHES MINIMUM.
 - e. UNIFORM SURFACE OF THE PILE SHALL HAVE A CLASS 1 STEEL TROWEL FINISH. THE TROWEL FINISH SHALL BE 25 FEET IN LENGTH, STARTING FROM ONE END OF THE PILE. THE TROWEL FINISHED END OF THE PILE SHALL BE CONSIDERED THE TOP END.
3. INSTALLATION
 - a. PILING SHALL BE INSTALLED AT THE LOCATION OF EXISTING BROKEN-OFF CHANNEL ENTRANCE MARKER PILING. SEE SHEETS 2 AND 3 FOR AN APPROXIMATE LOCATION OF THE PILE. CONTRACTOR SHALL COORDINATE WITH THE HARBORMASTER PRIOR TO PILE DRIVING.
 - b. CONTRACTOR SHALL CUT THE EXISTING WOOD PILING AT THE MUDLINE.
 - c. THE NEW PILING MAY BE SET WITHIN 2 FEET OF THE EXISTING PILING STUB.
 - d. THE PILING SHALL BE DRIVEN WITH AN IMPACT HAMMER OF THE SIZE NOTED IN THE SPECIFICATIONS. WOOD BLOCKS SHALL BE USED TO CUSHION THE PILE WHEN DRIVEN. SPALLED DAMAGE TO THE CONCRETE PILE SHALL BE REPAIRED BY THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE AND NO ADDITIONAL COMPENSATION SHALL BE PROVIDED.
 - e. IF NECESSARY, PILE MAY BE CUT TO THE APPROPRIATE MARKER ELEVATION. THE CUT CONCRETE PILE SHALL BE REPAIRED AND FINISHED BY THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE AND NO ADDITIONAL COMPENSATION WILL BE PROVIDED.
 - f. THE HARBORMASTER OR COUNTY ENGINEER SHALL BE PRESENT TO OVERSEE THE PILE INSTALLATION.
4. DAY MARKERS
 - a. CONTRACTOR SHALL SUPPLY AND INSTALL TWO (2) GREEN SQUARE DAY MARKERS WITH A 12-INCH-HIGH NUMBER 5 IN MILITARY (USCG) FONT ON THE SIGN. DAY MARKERS SHALL BE 36-INCH-SQUARE. DAY MARKERS SHALL BE LAG BOLTED TO THE PILE USING TYPE 316SS HARDWARE ON THE NORTHEAST AND SOUTHWEST FACING SIDES OF THE CONCRETE PILING SIMILAR TO AND AT THE SAME ELEVATION AS THE EXISTING DAY MARKERS.
 - b. DAY MARKERS SHALL BE MADE OF 80-MIL CHROMATE-COATED ALUMINUM CONFORMING TO ASTM B209 AND ASTM B449 WITH MINIMUM 3-MIL-THICK REFLECTIVE ADHESIVE FILM CONFORMING TO ASTM D4956, TYPE III OR IV. REFLECTIVE FILM SHALL BE 3M DIAMOND GRADE SHIP BOARD LETTERS OR EQUAL.

STEEL:

1. GENERAL
 - a. STRUCTURAL STEEL SHALL CONFORM TO AISC STEEL CONSTRUCTION MANUAL, 15TH EDITION, AND AISC 303-16.
 - b. FABRICATION AND ERECTION SHALL COMPLY WITH THE LATEST AISC SPECIFICATIONS.
 - c. EASE ALL EDGES OF STEEL MEMBERS OF PLATES FOR PREPARATION OF COATINGS (1/8" RADIUS).
 - d. STEEL PIPE PILE INCLUDING ALL STEEL WELDED TO THE PILE SHALL HAVE EPOXY COATED FINISH IN ACCORDANCE WITH THE SPECIFICATIONS. ALL OTHER MISCELLANEOUS STEEL SHALL HAVE A HOT-DIPPED GALVANIZED FINISH, UNLESS OTHERWISE NOTED.
 - e. THE CONTRACTOR IS RESPONSIBLE FOR THE SAFE TRANSPORT AND INSTALLATION OF PREFABRICATED STRUCTURAL ELEMENTS. STIFFENERS OR STABILIZERS MAY BE NEEDED FOR LARGE PRE-FABRICATED COMPONENTS SUCH AS THE FENDER PILES.
2. MATERIAL SPECIFICATIONS
 - a. STEEL GUIDE PILE
 - i. PILES SHALL BE EPOXY-COATED, LOW-ALLOY STEEL PIPE WITH OUTSIDE DIAMETER AND WALL THICKNESS SHOWN IN THE DRAWINGS.
 - ii. STEEL PIPE PILE MATERIAL SHALL BE:
 - (a) ASTM A252, GRADE 3 MODIFIED (Fy = 50 KSI)
 - (b) ASTM A572, GRADE 50 (Fy = 50 KSI)
 - (c) API 5L, X52 (Fy = 52 KSI)
 - b. STRUCTURAL STEEL
 - i. STRUCTURAL STEEL ANGLES AND PLATES: ASTM A572, GRADE 50
 - ii. MISCELLANEOUS ANGLES, BARS, AND PLATES: ASTM A36
 - iii. COLD-FORMED WELDED AND SEAMLESS CARBON STEEL STRUCTURAL TUBING SHALL CONFORM TO ASTM A500, GRADE B, UNLESS OTHERWISE NOTED.
 - (a) ROUND HSS: Fy = 42.0 KSI
 - (b) RECTANGULAR HSS: Fy = 46.0 KSI
 - (c) TUBING SHALL HAVE 3/8" CAP PLATES AT EXPOSED ENDS OF TUBES.
 - iv. HOT-FORMED WELDED AND SEAMLESS CARBON STEEL STRUCTURAL TUBING SHALL CONFORM TO ASTM A501, GRADE B, UNLESS NOTED OTHERWISE.
 - c. FASTENERS
 - i. BOLTS: ASTM A307
 - ii. NUTS: ASTM A563
 - iii. WASHERS: ASTM F436
 - iv. ALL NUTS, BOLTS, AND WASHERS SHALL BE HOT-DIP GALVANIZED.

WELDING:

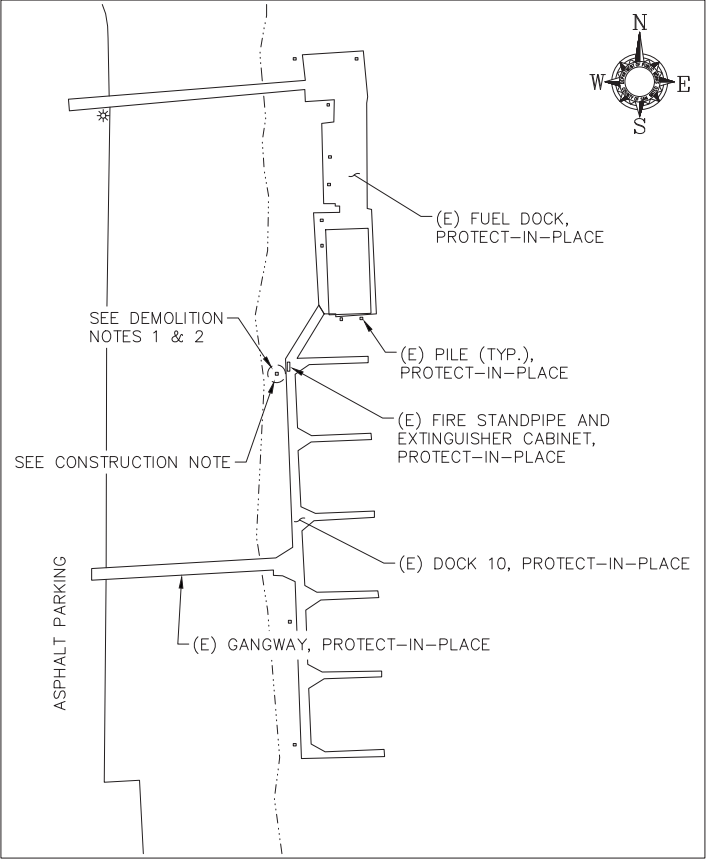
1. WELD LENGTHS SHOWN ARE FULL LENGTH OF JOINT. WHERE LENGTHS ARE NOT SHOWN, IN ADDITION TO INDICATED STRUCTURAL WELDS, ALL CONNECTED PARTS SHALL BE SEAL-WELDED, ALL-AROUND, A MINIMUM OF 1/8" FILLET WELDS.
2. ALL WELDING SHALL CONFORM TO THE LATEST EDITION OF AWS D1.1 AND THE CONSTRUCTION SPECIFICATIONS.
3. WELD CONSUMABLES SHALL BE E70XX.
4. ALL WELDERS SHALL BE CERTIFIED TO THE SATISFACTION OF THE GOVERNING JURISDICTION(S).
5. THE CONTRACTOR SHALL SUBMIT ALL WELDING PROCEDURES TO THE ENGINEER FOR PRE-APPROVAL.
6. ALL WEDLING REQUIREMENTS SHOWN OR INDICATED IN THE DRAWINGS SHALL BE SHOP WELDED TO THE MAXIMUM EXTENT POSSIBLE.
7. WELD DAMS ARE NOT PERMITTED IN LIEU OF WELD TABS.

SPECIAL INSPECTION:

1. ALL INSPECTIONS SHALL BE PERFORMED IN COMPLIANCE WITH AND AS REQUIRED PER SPECIAL INSPECTIONS, AS DEFINED IN CHAPTER 1704 OF THE 2019 CALIFORNIA BUILDING CODE.
2. FABRICATOR SHALL PERFORM QUALITY CONTROL PROCEDURES AS SPECIFIED IN TECHNICAL SPECIFICATIONS.
3. ALL TESTS AND INSPECTIONS SHALL BE PERFORMED BY AN INDEPENDENT TESTING AND INSPECTION AGENCY EMPLOYED BY THE COUNTY AND NOT THE CONTRACTOR AS DEFINED IN CHAPTER 1704.2 OF THE 2019 CALIFORNIA BUILDING CODE.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING A SCHEDULE TO THE COUNTY AND TEST AND INSPECTION AGENCY TO FACILITATE THE PROPER COORDINATION OF WORK.
5. THE SPECIAL INSPECTOR SHALL BE CERTIFIED BY THE GOVERNING JURISDICTION IN THE CATEGORY OF WORK REQUIRED TO HAVE SPECIAL INSPECTION.
6. THE SPECIAL INSPECTIONS IDENTIFIED IN THE DRAWINGS ARE IN ADDITION TO, AND NOT A SUBSTITUTE FOR, THOSE INSPECTIONS REQUIRED TO BE PERFORMED BY THE BUILDING INSPECTOR.
7. EACH INSPECTION SHALL BE DOCUMENTED. INSPECTION RECORDS SHALL BE SUBMITTED FOR ENGINEER'S REVIEW.
8. PORTIONS OF WORK REQUIRING SPECIAL INSPECTION:
 - a. WELDING:
 - i. ALL STRUCTURAL WELDING PERFORMED IN THE FIELD OR IN A NON-APPROVED FABRICATOR SHOP SHALL BE INSPECTED IN ACCORDANCE WITH AISC 360, TABLES N5.4-1, N5.4-2, AND N5.4-3 BY A REGISTERED SPECIAL INSPECTOR. WELDING SHALL BE PERFORMED BY AWS CERTIFIED WELDERS.
 - ii. INSPECTION OF WELDS 5/16" OR LESS IN SIZE SHALL BE PERIODIC.
 - iii. INSPECTION OF WELDS GREATER THAN 5/16" IN SIZE SHALL BE CONTINUOUS.
 - b. PILE DRIVING
 - i. CONTINUOUS SPECIAL INSPECTION SHALL BE MADE BY A REGISTERED DEPUTY INSPECTOR FOR ALL PILE DRIVING.
 - ii. A LOG OF PILE DRIVING SHALL BE KEPT BY THE CONTRACTOR AND A COPY SUBMITTED TO THE COUNTY ALONG WITH WRITTEN CERTIFICATION THAT THE WORK SUPERVISED MEETS THE CONTRACT DOCUMENTS.



APPROVED:
DATE: 03/18/2022
ANN MADER STILLMAN,
INTERIM DIRECTOR OF PUBLIC WORKS
R. C. E. # 47882 / EXPIRES 12-31-2023



1 DOCK 10 SITE PLAN
4,5 SCALENTS

DEMOLITION NOTES:

1. REMOVE AND DISPOSE OF (E) PILE GUIDE. FILL ABANDONED BOLT HOLES WITH MARINE-GRADE STRUCTURAL WOOD FILLER.
2. CUT (E) TIMBER PILE AT MUDLINE. REMOVE AND PROPERLY DISPOSE OF TREATED WOOD WASTE. (E) PILE IS BROKEN AND MAY NOT BE VISIBLE FROM WATER SURFACE.

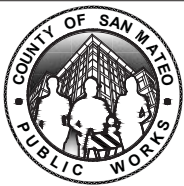
CONSTRUCTION NOTE:

INSTALL NEW STEEL PILE AND PILE GUIDE 3 FEET TO SOUTH OF (E) BROKEN TIMBER PILE PER

NOTES:

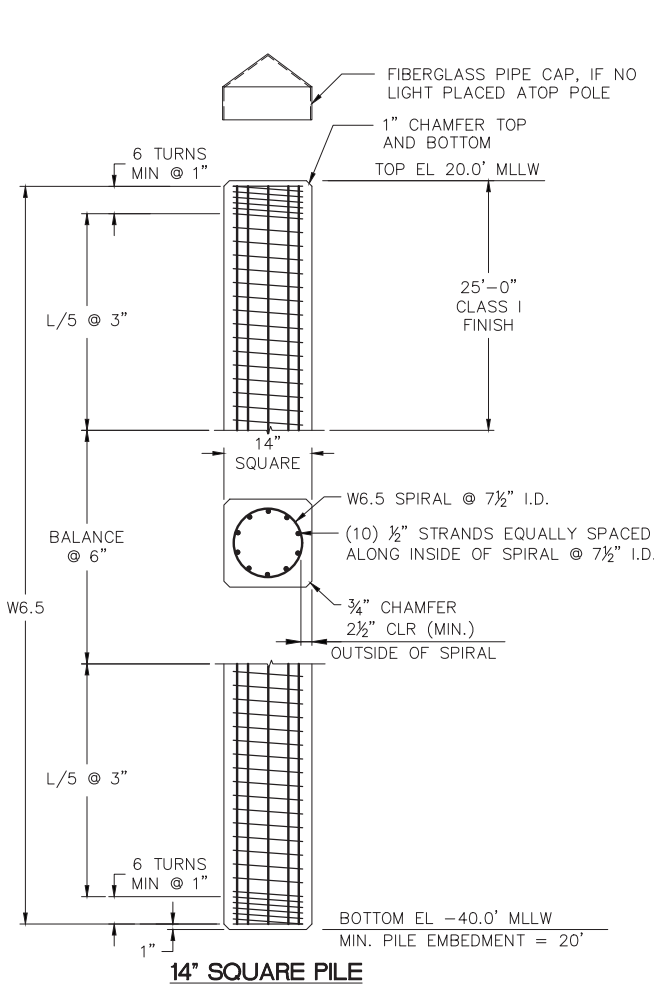
1. NOTIFY HARBORMASTER 7 DAYS PRIOR TO STARTING PILE WORK TO HAVE VESSELS TEMPORARILY RELOCATED.
2. CONTRACTOR SHALL REPAIR ALL DAMAGE TO DOCK AND VESSELS TO COUNTY AND OWNER SATISFACTION AT NO ADDITIONAL COST TO COUNTY.

ISSUED FOR BID



DESIGNED BY: J. G.		COYOTE POINT MARINA		SCALE: AS SHOWN
CHECKED BY: M. W.		MAINTENANCE DREDGING AND PILE REPLACEMENT		DATE: 03-18-2022
DRAWN BY: D. H.		PILING INSTALLATION NOTES		FILE NO.: 1/5061
ANN M. STILLMAN, INTERIM DIRECTOR OF PUBLIC WORKS COUNTY SAN MATEO		555 COUNTY CENTER, 5th FLOOR REDWOOD CITY, CALIFORNIA 94063		
REVISION	DATE	FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES		
0 1 2 3 4				11 SHEET 11 OF 12

FILENAME: K:\PROJECTS\401-COUNTY OF SAN MATEO PARK DEPARTMENT\COYOTE POINT MARINA 2021 DREDGING\CONSTRUCTION PLANS\5061002.DWG (SHT11)



1 NAVIGATION PILE DETAIL
SCALENTS

PRESTRESSED CONCRETE PILE NOTES:

- MINIMUM CONCRETE STRENGTHS:
28 DAY COMPRESSION STRENGTH $f'_c = 6,000$ psi
AT TIME OF DRIVING $f'_c = 6,000$ psi
AT INITIAL RELEASE / TRANSFER $f'_c = 4,000$ psi
- PRESTRESSING STRANDS SHALL CONFORM TO ASTM A416, GRADE 270 (LOW RELAXATION). RESIDUAL FINAL STRAND FORCE, AFTER ALL LOSSES, SHALL BE 21,000 LBS/STRAND MIN. PRESTRESS SHALL BE CONCENTRIC WITH PILE AXIS.
- SPIRAL SHALL CONFORM TO ASTM A1064, GRADE 60 (SMOOTH OR DEFORMED). PROVIDE 1 1/2 TURNS (80 WIRE DIAMETERS MINIMUM) AND 135° HOOK AT ALL SPIRAL SPLICE LOCATIONS AND AT TERMINATIONS.
- ALL OTHER REINFORCING SHALL CONFORM TO ASTM A706, GRADE 60.
- CORROSION INHIBITOR ADMIXTURE COMPLYING WITH ASTM C494, TYPE C AND/OR ASTM C1582 SHALL BE ADDED TO MIX DESIGN IN ACCORDANCE WITH MANUFACTURER RECOMMENDATIONS. DO NOT EPOXY COAT PILE REINFORCING UNLESS NOTED OTHERWISE IN THESE PLANS.
- PROPERTIES OF PILE:
SIZE = 14" SQUARE
CONCRETE AREA = 194 IN²
WEIGHT = 270 LB/FT
PRESTRESS LOAD = 1,100 PSI

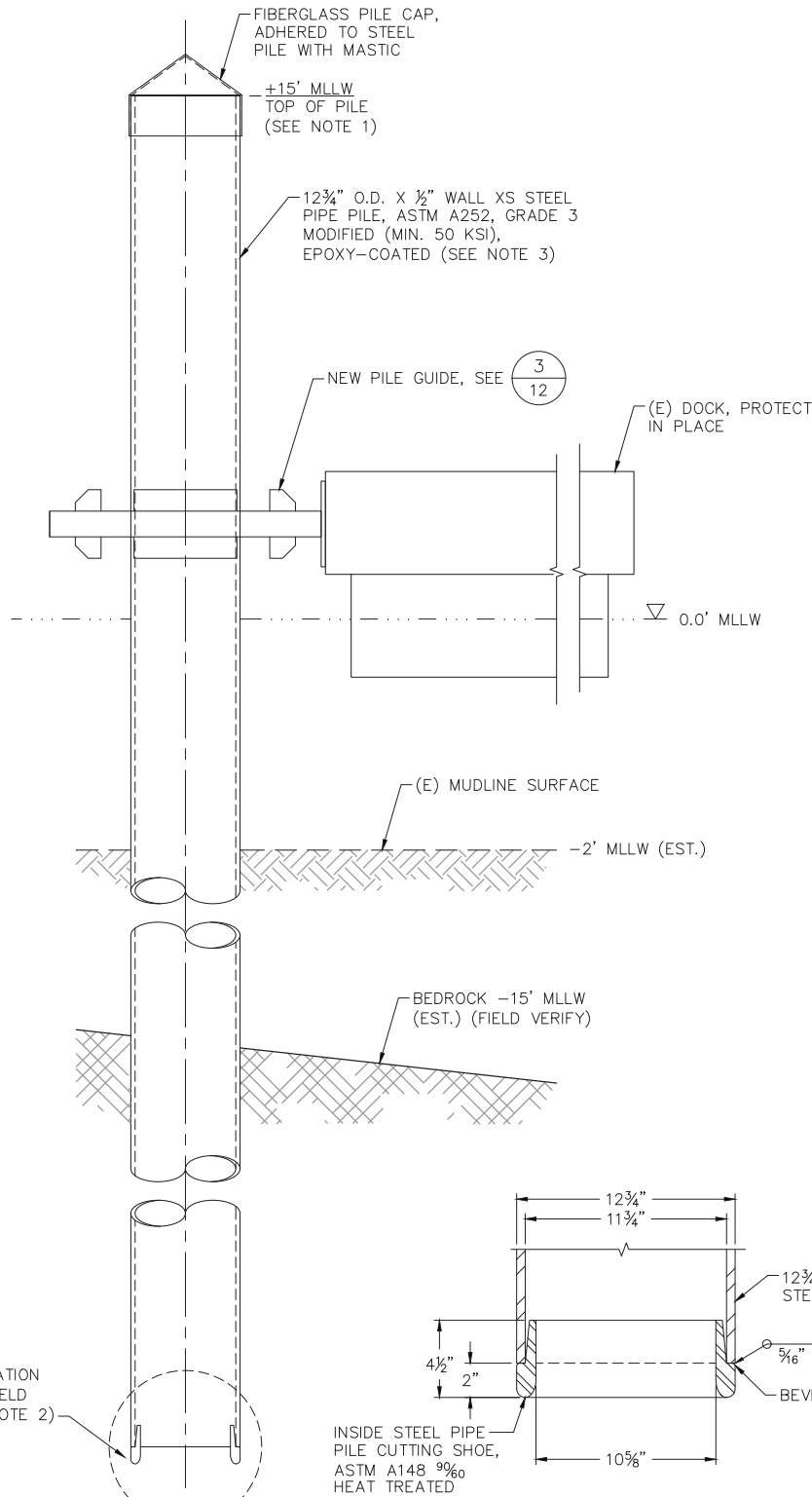
PILE TIP ELEVATION
-27' MLLW (FIELD
VERIFY, SEE NOTE 2)

SEE INSET, THIS SHEET

2 DOCK 10 GUIDE PILE DETAIL
SCALENTS

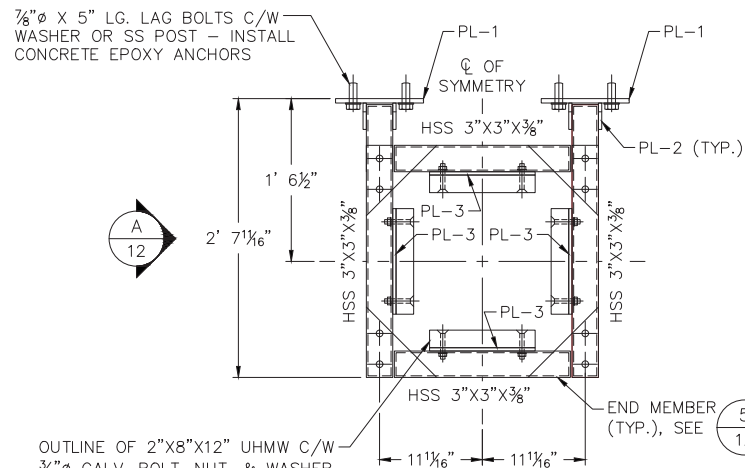
DOCK 10 PILE NOTES:

- CUT PILE TO TOP ELEVATION ONCE PILE EMBEDMENT IN BEDROCK AND MIN. BLOW COUNT HAVE BEEN REACHED PER RECOMMENDATIONS IN 2012 GEOTECHNICAL REPORT BY BAGG ENGINEERS (NO. COUSM-12-02)
- DRIVE PILES 12 FEET INTO HARD SUBSTRATE/BEDROCK WITH MINIMUM PENETRATION INTO BEDROCK = 5 FEET PER 20-12 GEOTECHNICAL REPORT RECOMMENDATIONS.
- EPOXY COAT WITH CARBOGUARD 890 BY CARBOLINE, AMERLOCK 400 VOC BY PPG, OR INTERZONE 954 BY AKZONOBEL, OR APPROVED EQUAL. MIN. DFT = 16 MILS.

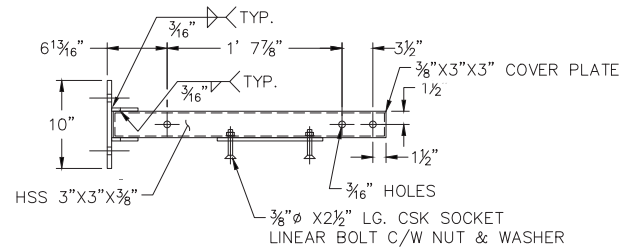


INSIDE STEEL PIPE
PILE CUTTING SHOE,
ASTM A148 90%
HEAT TREATED

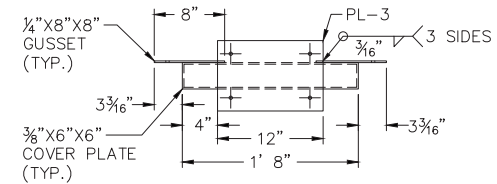
INSET
NOT TO SCALE



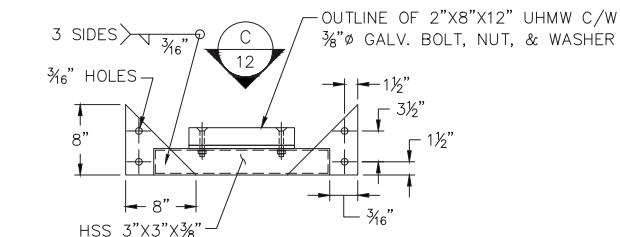
3 PILE GUIDE PLAN VIEW
SCALENTS



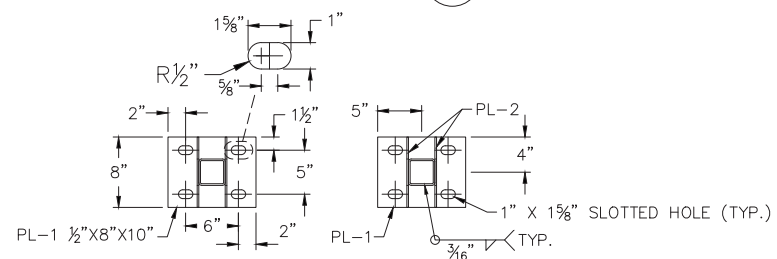
4 PILE GUIDE ARM PLAN VIEW
SCALENTS



5 PILE GUIDE END MEMBER ELEVATION
SCALENTS



6 PILE GUIDE END MEMBER PLAN VIEW
SCALENTS



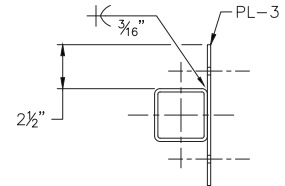
8 CONNECTION PLATE DETAIL (PL-1)
SCALENTS



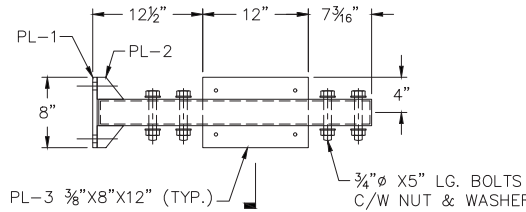
APPROVED:

DATE: 03/18/2022

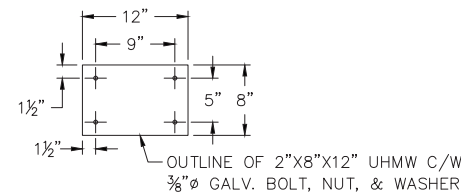
ANN MADER STILLMAN,
INTERIM DIRECTOR OF PUBLIC WORKS
R. C. E. # 47882 / EXPIRES 12-31-2023



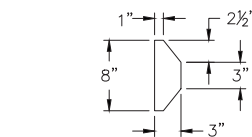
9 TYPICAL PILE GUIDE SECTION
SCALENTS



10 PILE GUIDE ELEVATION W/RUB BLOCK
SCALENTS



11 UHMW PAD DETAIL
SCALENTS



12 GUSSET PLATE DETAIL (PL-2)
SCALENTS

ISSUED FOR BID



DESIGNED BY: J. G.	COYOTE POINT MARINA	SCALE: AS SHOWN
CHECKED BY: M. W.	MAINTENANCE DREDGING AND PILE REPLACEMENT	DATE: 03-18-2022
DRAWN BY: D. H.	PILING INSTALLATION DETAILS	FILE NO.: 1/5061
ANN M. STILLMAN, INTERIM DIRECTOR OF PUBLIC WORKS COUNTY SAN MATEO	555 COUNTY CENTER, 5th FLOOR REDWOOD CITY, CALIFORNIA 94063	
FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES	0 1 2 3 4	12 SHEET 12 OF 12

FILENAME: K:\PROJECTS\401-COUNTY OF SAN MATEO PARK DEPARTMENT\COYOTE POINT MARINA 2021 DREDGING CONSTRUCTION PLANS\5061002.DWG (SHT12)