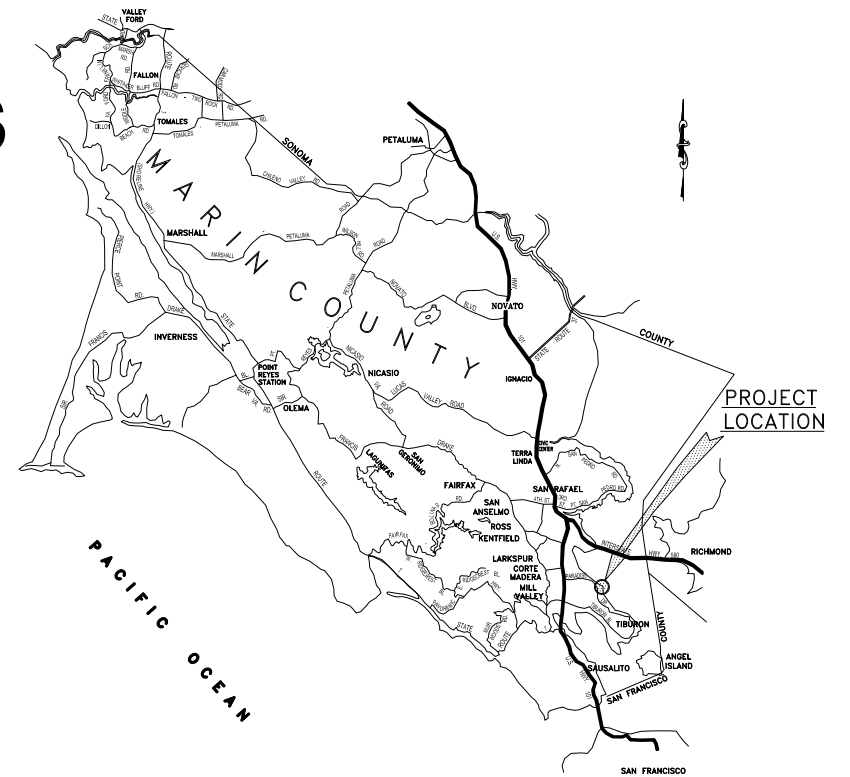


GENERAL NOTES

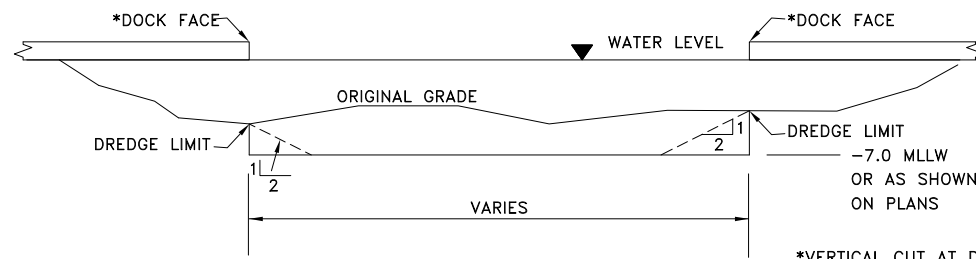
- ALL WORK SHOWN ON THESE PLANS SHALL BE ACCOMPLISHED IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS OF THE CITIES OF MARIN AND COUNTY OF MARIN DATED JUNE, 1992, THE MOST CURRENT VERSION OF THE UNIFORM CONSTRUCTION STANDARDS OF THE CITIES OF MARIN AND THE COUNTY OF MARIN, THE 2010 STATE STANDARD PLANS, AND THE 2010 STATE STANDARD SPECIFICATIONS, (INSOFAR AS THE SAME MAY APPLY) AS MODIFIED BY THE SPECIAL PROVISIONS FOR THIS PROJECT.
- THE LOCATION FOR UTILITIES SHOWN ON THESE PLANS IS APPROXIMATE ONLY. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY LOCATION AND DEPTH. THIS VERIFICATION SHALL BE COORDINATED BY THE CONTRACTOR WITH THE APPROPRIATE UTILITY COMPANY. CALL U.S.A. (UNDERGROUND SERVICE ALERT) FOR UTILITY LOCATION QUESTIONS AT LEAST 48 HOURS BEFORE DIGGING. PHONE 1-800-642-2444.
- DREDGE SPOILS SHALL BE DISPOSED OF AT THE U.S. ARMY CORPS OF ENGINEERS' DISPOSAL SITE NO. 11 (ALCATRAZ) PER THE PERMIT CONDITIONS INCLUDED IN THE APPENDIX OF THE PROJECT SPECIFICATIONS.
- CONTRACTOR TO PROVIDE A 48-HOUR NOTICE TO PROPERTY OWNERS AND RESIDENTS PRIOR TO COMMENCING CONSTRUCTION WORK. NOTIFICATION TO BE BY LETTER AND SHALL BE APPROVED BY THE ENGINEER.
- BENCH MARK USED WAS "+" MARK ON E.C. MONUMENT OPPOSITE HOUSE #143 TRINIDAD WAY. COUNTY OF MARIN B.M. ELEVATION = 13.22' MLLW (TIDAL EPOCH OF 1983-2001). B.M. DATA OBTAINED FROM PREVIOUS PROJECT SURVEY DATED 2009.
- PLANE GRID, BEARINGS, AND COORDINATES ARE BASED ON CA SPCS, LAMBERT CONFORMAL PROJECTION ZONE 3 (NAD83), US SURVEY FEET.
- HORIZONTAL POSITIONING SYSTEM USED INCLUDED LEICA 500/1230 RTK GPS SYSTEM AND TRIMBLE AG132 DGPS SYSTEM. SOUNDING ACQUIRED BY ODOM HYDROTRAK ECHOSOUNDER.
- SOUNDINGS ARE PROVIDED IN FEET BELOW MEAN LOWER LOW WATER (MLLW). PREDREDGE SURVEY TIDAL DYNAMIC WATER LEVELS DURING SURVEY WERE MEASURED WITH A WATER LEVEL LOGGER AT TIBURON Y.C.. WATER LEVEL LOGGER ELEVATION WAS VERIFIED WITH SURVEY B.M.
- DATES OF SURVEY: HYDROGRAPHIC SURVEY PERFORMED ON APRIL 21, 2014. DOCKS SURVEYED ON APRIL 22, 2014.
- LOCATION OF WATERWAY/CHANNEL BOTTOM IS DEPICTED ON PLAN SHEETS 2, 3, & 4.
- DREDGING MUST BE COMPLETED BY NOVEMBER 30, 2014.

COUNTY OF MARIN DEPARTMENT OF PUBLIC WORKS

PLANS FOR CONSTRUCTION OF PARADISE CAY 2014 MAINTENANCE DREDGING TIBURON, CALIFORNIA PROJECT NO. CSA 29-03 COUNTY SERVICE AREA NO. 29



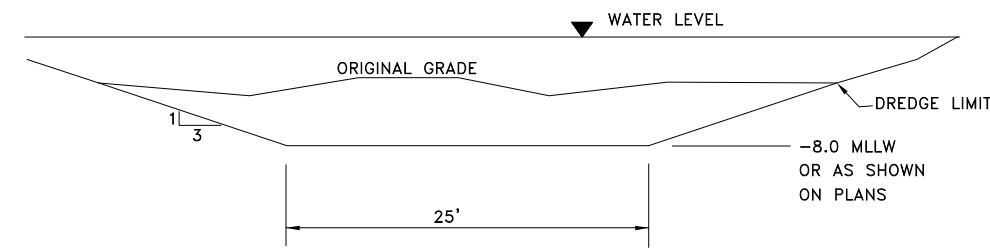
VICINITY MAP
NOT TO SCALE



TYPICAL SECTION

INSIDE WATERWAYS/CHANNELS
A, B, C, D, E, NORTH & SOUTH CHANNEL AREAS

*VERTICAL CUT AT DOCK FACE.
2:1 SLOPE IN LARGE AREAS
WHERE NO DOCK EXISTS.
(TRANSITIONS SHOWN ON PLANS)

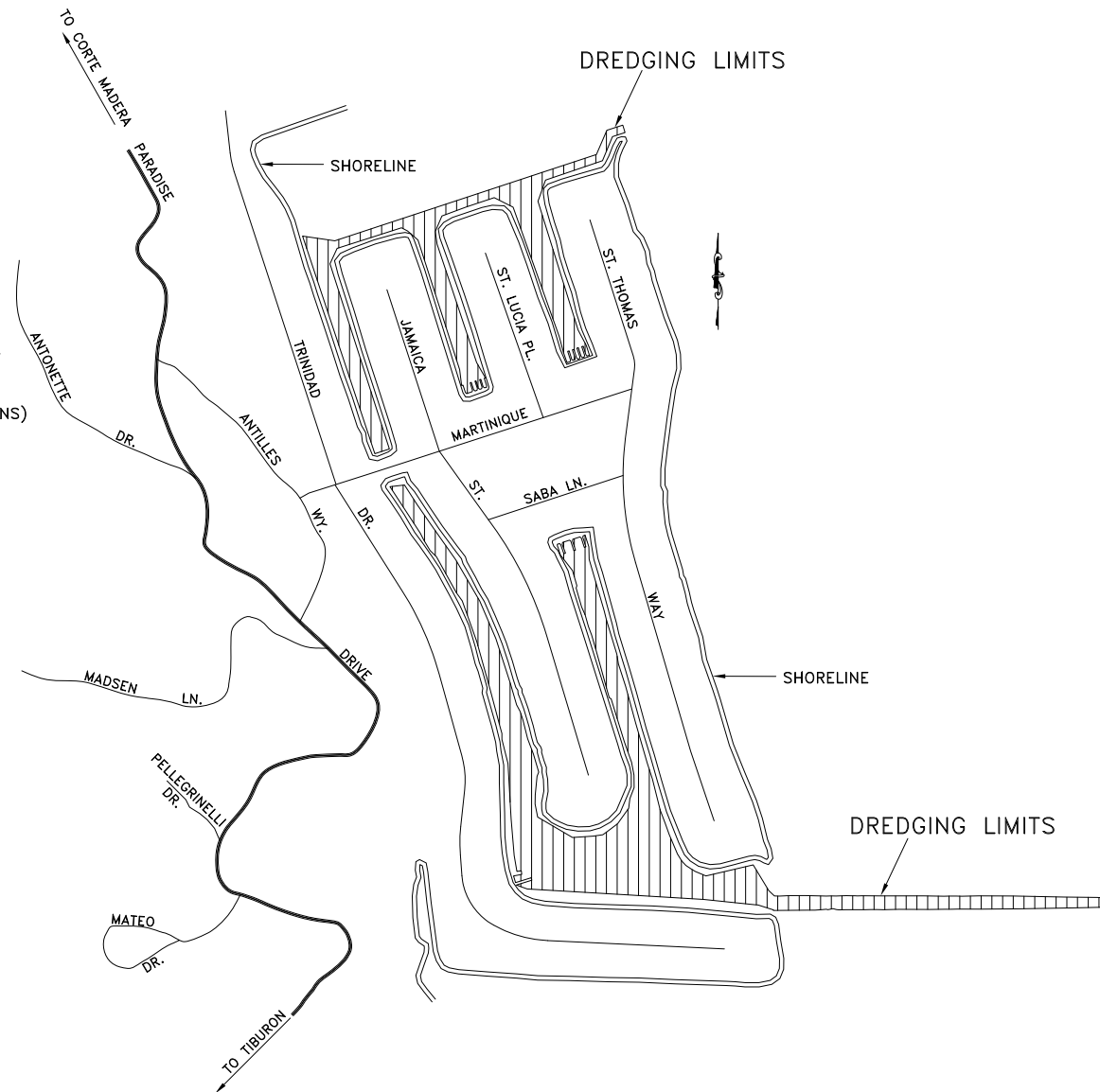


TYPICAL SECTION

ENTRANCE CHANNELS

NOTE: THE CONTRACTOR
SHALL POSSESS
CLASS "A" LICENSE

CALL USA (UNDERGROUND SERVICE
ALERT) AT LEAST 48 HRS IN ADVANCE
OF WORK - 1-(800)-642-2444.



LOCATION MAP

NOT TO SCALE

INDEX OF SHEETS

CSA NO. 29, PARADISE CAY MAINTENANCE DREDGING	
SHEET NO.	SHEET TITLE
1	TITLE SHEET WITH TYPICAL SECTIONS
2	PLAN VIEW NORTH CAY WATERWAYS
3	PLAN VIEW SOUTH CAY WATERWAYS
4	PLAN VIEW SOUTH CAY ENTRY CHANNEL
5	PLAN VIEW AREAS AND VOLUMES

APPROVED
DIRECTOR OF PUBLIC WORKS

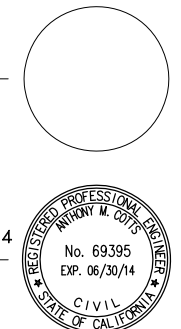
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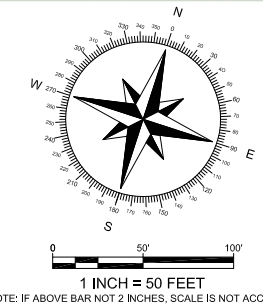
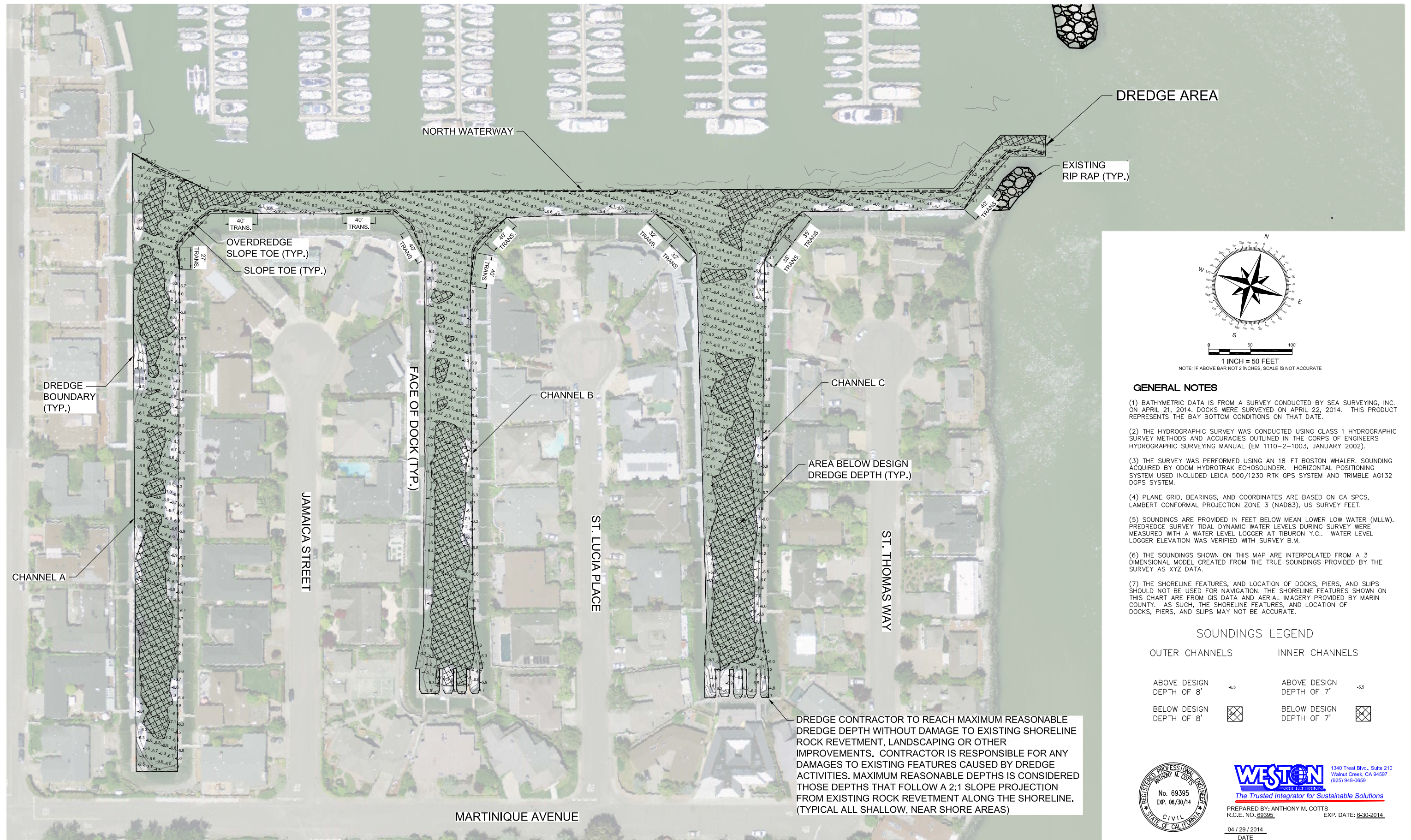
04/29/14

ANTHONY M. COTTS
R.C.E. 69395, EXP. 6/30/14

DATE

WESTON
SOLUTIONS
The Trusted Integrator for Sustainable Solutions
1340 Treat Blvd., Suite 210
Walnut Creek, CA 94597
(925) 948-0659





GENERAL NOTES

- (1) BATHYMETRIC DATA IS FROM A SURVEY CONDUCTED BY SEA SURVEYING, INC. ON APRIL 21, 2014. DOCKS WERE SURVEYED ON APRIL 22, 2014. THIS PRODUCT REPRESENTS THE BAY BOTTOM CONDITIONS ON THAT DATE.
- (2) THE HYDROGRAPHIC SURVEY WAS CONDUCTED USING CLASS 1 HYDROGRAPHIC SURVEY METHODS AND ACCURACIES OUTLINED IN THE CORPS OF ENGINEERS HYDROGRAPHIC SURVEYING MANUAL (EM 1110-2-1003, JANUARY 2002).
- (3) THE SURVEY WAS PERFORMED USING AN 18-FT BOSTON WHALER, SOUNDING ACQUIRED BY ODOM HYDROTRAK ECHOSOUNDER. HORIZONTAL POSITIONING SYSTEM USED INCLUDED LEICA 500/1230 RTK GPS SYSTEM AND TRIMBLE AG132 DGPS SYSTEM.
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SOUNDINGS LEGEND

OUTER CHANNELS		INNER CHANNELS	
ABOVE DESIGN DEPTH OF 8'	-6.5	ABOVE DESIGN DEPTH OF 7'	-5.6
BELOW DESIGN DEPTH OF 8'		BELOW DESIGN DEPTH OF 7'	



WESTON
 CONSULTANTS
 The Trusted Integrator for Sustainable Solutions
 1340 Treat Blvd., Suite 210
 Walnut Creek, CA 94597
 (925) 948-0659

PREPARED BY: ANTHONY M. COTTIS
 R.C.E. NO. 69395
 EXP. DATE: 6-30-2014

04 / 29 / 2014
 DATE

No.	DATE	DESCRIPTION	BY:
7			
6			
5			
4			
3			
2			
1			

COUNTY OF MARIN
 DEPARTMENT OF PUBLIC WORKS
 CIVIC CENTER SAN RAFAEL CALIFORNIA 94903

DESIGNED: AMC	APPROVAL RECOMMENDED
DRAWN: AMC	
CHECKED: LD	
DATE: APR-2014	PRINCIPAL ENGINEER, LICENSE NO. 51405 DATE
SCALE: 1"=50'	APPROVAL RECOMMENDED
BENCHMARK DESCRIPTION: MARK ON E.C. MONUMENT OPPOSITE HOUSE #143 TRINIDAD WAY, B.M. ELEV. = 13.22' MLLW	ASSIST. DIRECTOR OF PUBLIC WORKS, LICENSE NO. 43042 DATE

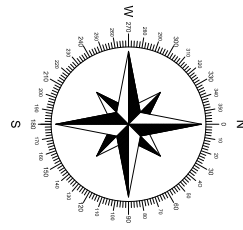
PLAN VIEW NORTH WATERWAYS
 CONDITION SURVEY

PARADISE CAY - CSA NO. 29
 2014 MAINTENANCE DREDGING
 TIBURON, CALIFORNIA

SHT. 2 of 5
 COUNTY PLAN NO.
 2013-13

GENERAL NOTES

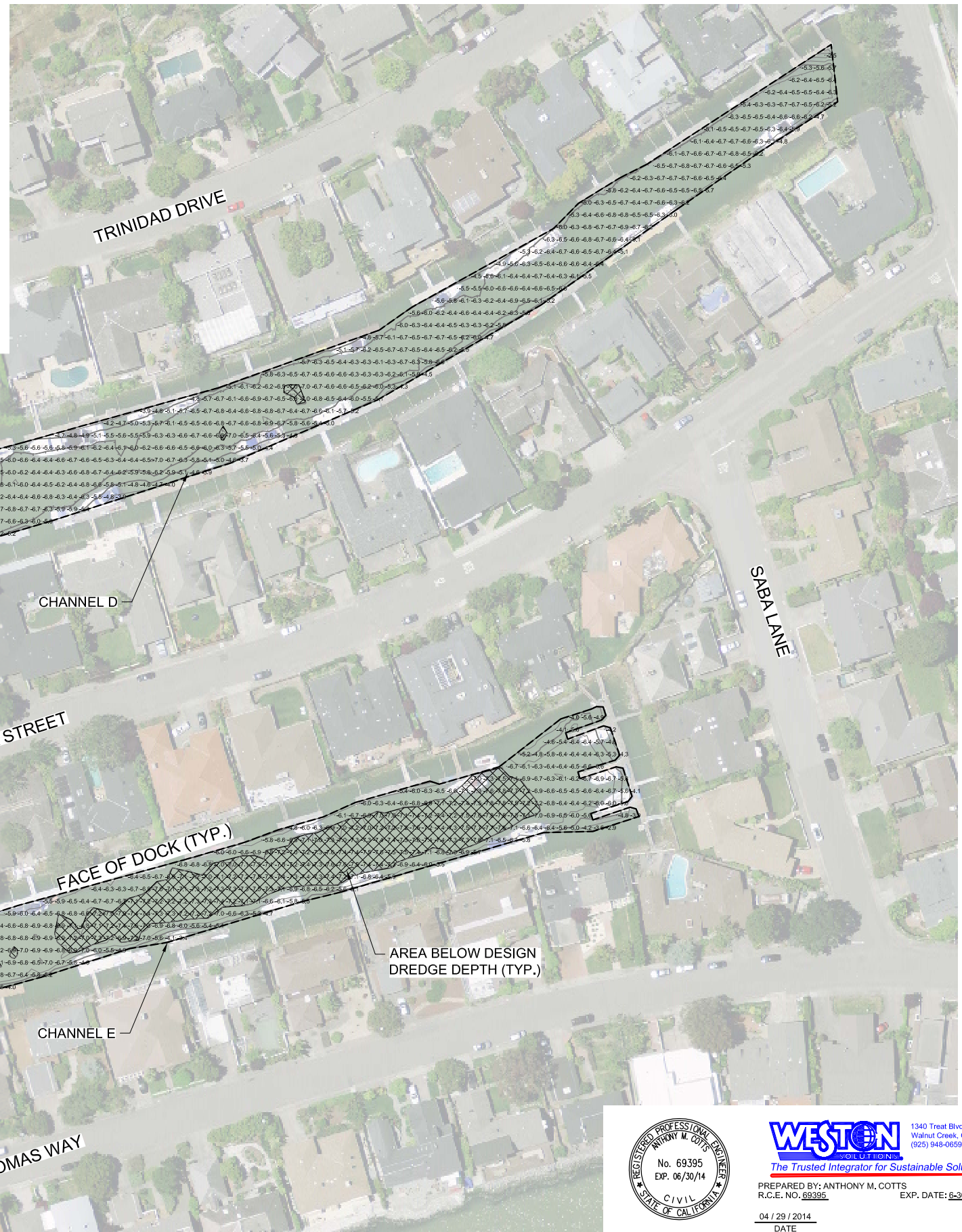
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1 INCH = 50 FEET
NOTE: IF ABOVE BAR NOT 2 INCHES, SCALE IS NOT ACCURATE

SOUNDINGS LEGEND

OUTER CHANNELS		INNER CHANNELS	
ABOVE DESIGN DEPTH OF 8'	-6.5	ABOVE DESIGN DEPTH OF 7'	-6.5
BELOW DESIGN DEPTH OF 8'		BELOW DESIGN DEPTH OF 7'	



MATCHLINE - SEE SHEET 4



WESTON
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PREPARED BY: ANTHONY M. COTTS
R.C.E. NO. 69395
EXP. DATE: 6-30-2014
04 / 29 / 2014
DATE

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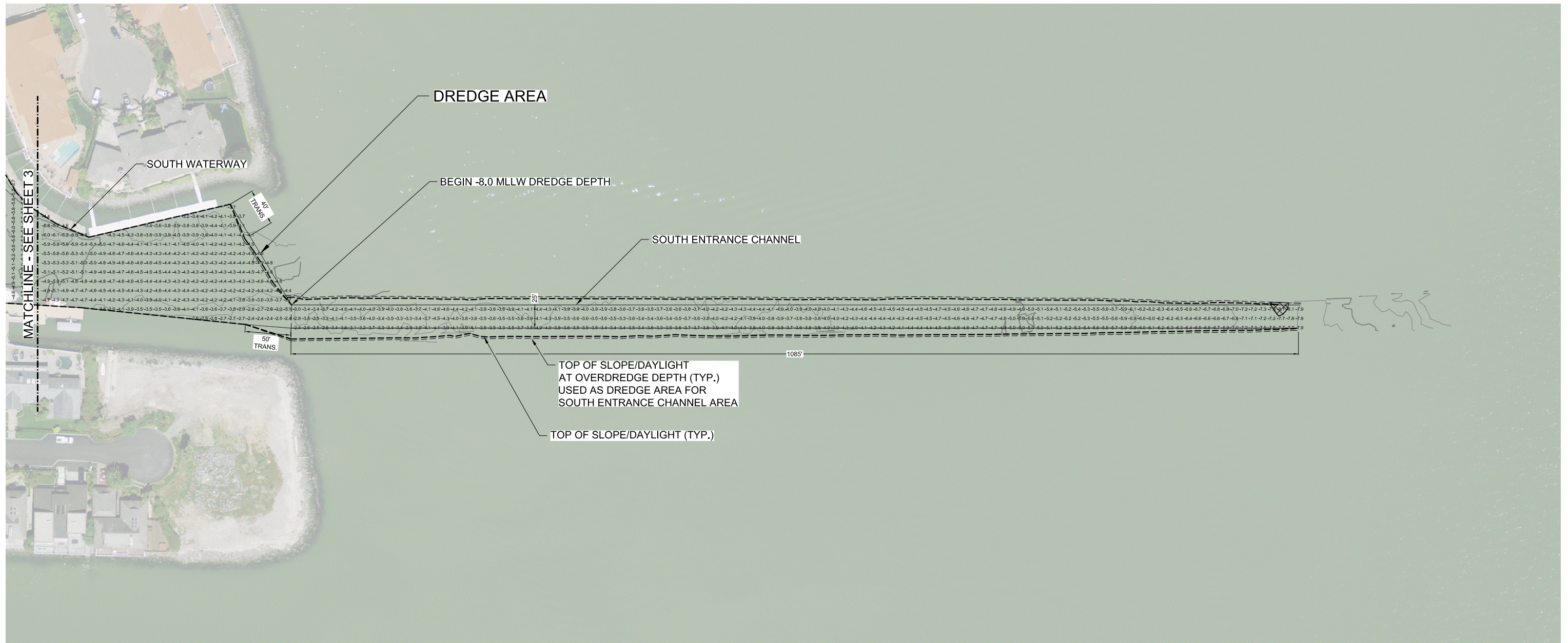
COUNTY OF MARIN
DEPARTMENT OF PUBLIC WORKS
CIVIC CENTER SAN RAFAEL CALIFORNIA 94903

DESIGNED: AMC	APPROVAL RECOMMENDED
DRAWN: AMC	
CHECKED: LD	
DATE: APR-2014	PRINCIPAL ENGINEER, LICENSE NO. 51405
SCALE: 1"=50'	APPROVAL RECOMMENDED
BENCHMARK DESCRIPTION: MARK ON E.C. MONUMENT OPPOSITE HOUSE #143 TRINIDAD WAY, B.M. ELEV. = 13.22' MLLW	ASSIST. DIRECTOR OF PUBLIC WORKS, LICENSE NO. 43042

PLAN VIEW SOUTH WATERWAYS
CONDITION SURVEY

PARADISE CAY - CSA NO. 29
2014 MAINTENANCE DREDGING
TIBURON, CALIFORNIA

SHT. 3 of 5
COUNTY PLAN NO.
2013-13

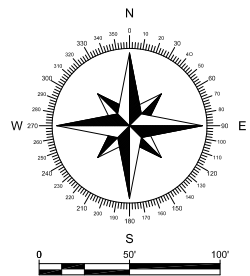


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BELOW DESIGN DEPTH OF 8'		BELOW DESIGN DEPTH OF 7'	



NOTE: IF ABOVE BAR NOT 2 INCHES, SCALE IS NOT ACCURATE



PREPARED BY: ANTHONY M. COTTIS
R.C.E. NO. 69395
EXP. DATE: 6-30-2014

04 / 29 / 2014
DATE

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No.	DATE	DESCRIPTION	BY:	

COUNTY OF MARIN
DEPARTMENT OF PUBLIC WORKS
CIVIC CENTER SAN RAFAEL CALIFORNIA 94903

DESIGNED: AMC	APPROVAL RECOMMENDED
DRAWN: AMC	
CHECKED: LD	
DATE: APR-2014	PRINCIPAL ENGINEER, LICENSE NO. 51405
SCALE: 1"=50'	APPROVAL RECOMMENDED
BENCHMARK DESCRIPTION: + MARK ON E.C. MONUMENT OPPOSITE HOUSE #143 TRINIDAD WAY, B.M. ELEV. = 13.22' MLLW	ASSIST. DIRECTOR OF PUBLIC WORKS, LICENSE NO. 43042

PLAN VIEW SOUTH ENTRANCE CHANNEL
CONDITION SURVEY

PARADISE CAY - CSA NO. 29
2014 MAINTENANCE DREDGING
TIBURON, CALIFORNIA

SHT. 4 of 5
COUNTY PLAN NO.
2013-13



DREDGE QUANTITIES SUMMARY							
	DREDGE AREA (NOTE 1) (SQUARE FEET)	DREDGE AREA (NOTE 1) (ACRES)	DREDGE ELEVATION (MLLW)	VOLUME (CUBIC YARDS)	OVERDREDGE 0.5 FT DREDGE ELEVATION (MLLW)	OVERDREDGE 0.5 FT VOLUME (CUBIC YARDS)	TOTAL PAY VOLUME (CUBIC YARDS)
CHANNEL							
SOUTH ENTRANCE CHANNEL	45,160	1.04	-8	4,900	-8.5	800	5,700
NORTH WATERWAY	27,050	0.62	-7	900	-7.5	460	1,360
SOUTH WATERWAY	138,700	3.18	-7	7,350	-7.5	2,540	9,890
CHANNEL A	20,600	0.47	-7	500	-7.5	380	880
CHANNEL B	22,080	0.51	-7	680	-7.5	400	1,080
CHANNEL C	27,230	0.63	-7	880	-7.5	500	1,380
CHANNEL D	73,240	1.68	-7	2,450	-7.5	1,360	3,810
CHANNEL E	46,430	1.07	-7	1,550	-7.5	860	2,410
TOTALS	419,590	9.19		19,210		7,300	26,510

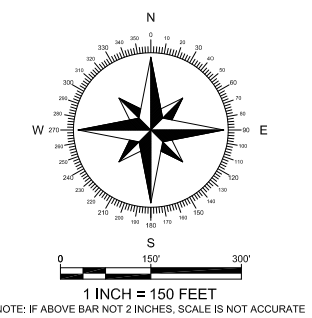
QUANTITY CALCULATION NOTES:

- DREDGE AREAS EXCLUDE AREAS WHERE DEPTHS ARE BELOW DESIGN DREDGE DEPTHS.
- THE LISTED QUANTITIES ARE BASED ON GEOMETRY, AND NO MATERIAL PROPERTIES ARE APPLIED TO THE ABOVE NUMBERS.
- 2013 HYDROGRAPHIC SURVEY PERFORMED BY SEA SURVEY ENGINEERS, INC. ON AUGUST 15, 2013.
- QUANTITIES CALCULATED BY WESTON SOLUTIONS, INC. UTILIZING AUTODESK CIVIL 3D SOFTWARE, 2013 SURVEY DATA, AND DREDGE BOUNDARIES PROVIDED BY THE COUNTY OF MARIN.
- WHERE APPLICABLE, VERTICAL CUTS AT DOCK FACES AND 3:1 OR 2:1 SLOPES ELSEWHERE (SEE TYP. DETAILS) USED FOR QUANTITY CALCULATIONS. CUT LOCATED FROM DOCK FACES TO DREDGE DEPTHS AND SLOPES FROM BOTTOM OF ENTRANCE CHANNEL TO EXISTING BOTTOM.



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WESTON SOLUTIONS
1340 Treat Blvd., Suite 210
Walnut Creek, CA 94597
(925) 948-0659

PROFESSIONAL ENGINEER
ANTHONY M. COTTIS
No. 69395
EXP. 06/30/14
CIVIL
STATE OF CALIFORNIA

PREPARED BY: ANTHONY M. COTTIS
R.C.E. NO. 69395
EXP. DATE: 6-30-2014

04 / 29 / 2014
DATE

No.	DATE	DESCRIPTION	BY:
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COUNTY OF MARIN
DEPARTMENT OF PUBLIC WORKS
CIVIC CENTER SAN RAFAEL CALIFORNIA 94903

DESIGNED: AMC
DRAWN: AMC
CHECKED: LD
DATE: APR-2014
SCALE: 1"=150'
BENCHMARK DESCRIPTION:
+ MARK ON E.C. MONUMENT
OPPOSITE HOUSE #1443 TRINIDAD
WAY, B.M. ELEV. = 13.22' MLLW

APPROVAL RECOMMENDED
PRINCIPAL ENGINEER, LICENSE NO. 51405
APPROVAL RECOMMENDED
ASSIST. DIRECTOR OF PUBLIC WORKS, LICENSE NO. 43042

PLAN VIEW AREAS AND VOLUMES
CONDITION SURVEY

PARADISE CAY - CSA NO. 29
2014 MAINTENANCE DREDGING
TIBURON, CALIFORNIA

SHT. 5 of 5
COUNTY PLAN NO.
2013-13