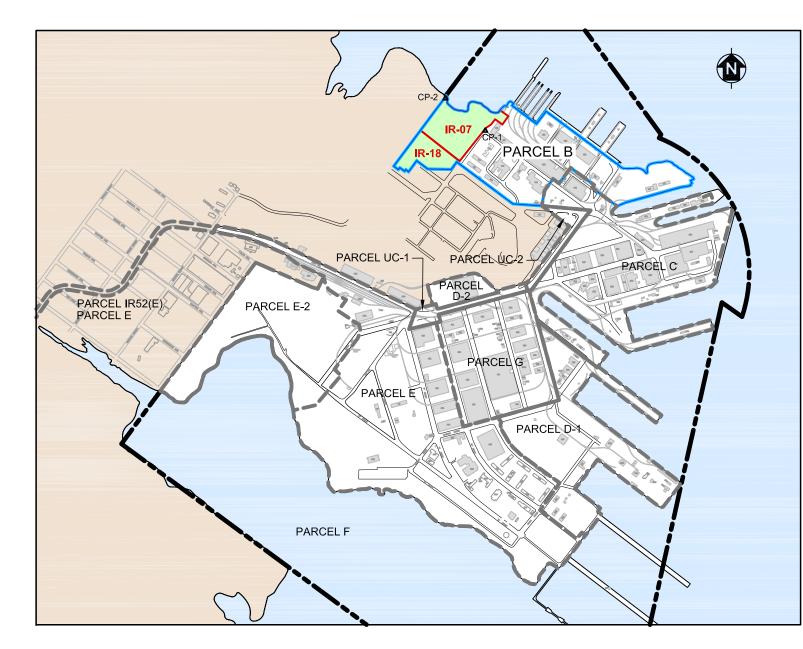
ATTACHMENT 1 DESIGN CONSTRUCTION DRAWINGS

HUNTERS POINT SHIPYARD SAN FRANCISCO, CALIFORNIA **INSTALLATION RESTORATION SITES 7 AND 18** SOIL COVER AND SHORELINE REVETMENT **DRAFT DESIGN DRAWINGS**

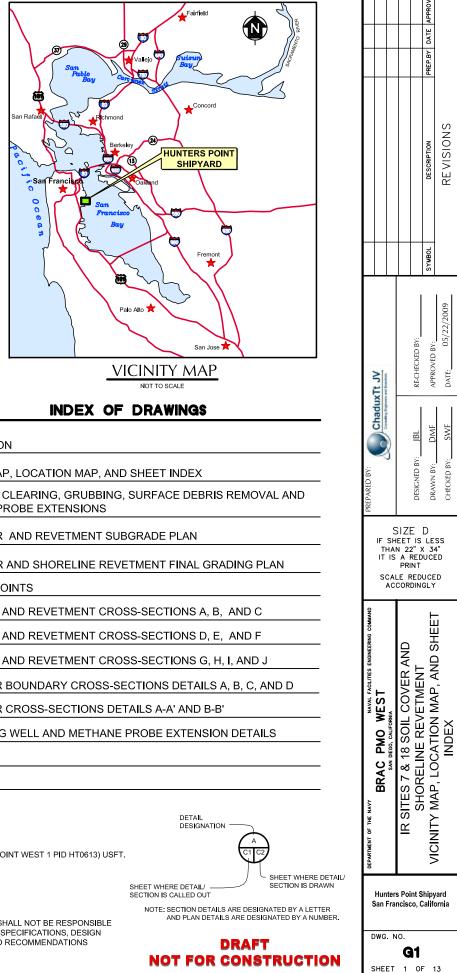


LOCATION MAP

600'	0	600	1200'
	SCALE:	1" = 600'	

SURVEY CONTROL POINTS						
Control Point	Easting	Northing	Elevation			
CP-1	1460168.99	453718.89	11.76			
CP-2	1459671.50	454121.67	5.81			

NOTE: OFF-SITE TOPOGRAPHY HAS BEEN SHOWN AS REFERENCED BUT HAS NOT BEEN TIED TO THE SITE TOPOGRAPHY. EXISTING TOPOGRAPHY ESTIMATED PRECISION ± 1' DUE TO MINOR REGRADING OF THE SITE FOLLOWING AS SHOWN BASELINE SURVEY.



DWG	DESCRIPTION
G1	VICINITY MAP, LOCATION
C1	SITE PLAN - CLEARING, (WELL AND PROBE EXTEI
C2	SOIL COVER AND REVE
C3	SOIL COVER AND SHORE
C4	CONTROL POINTS
C5	SHORELINE AND REVET
C6	SHORELINE AND REVET
C7	SHORELINE AND REVET
 C8	SOIL COVER BOUNDARY
 C9	SOIL COVER CROSS-SEC
C10	MONITORING WELL AND
C11	DETAILS I
C12	DETAILS II

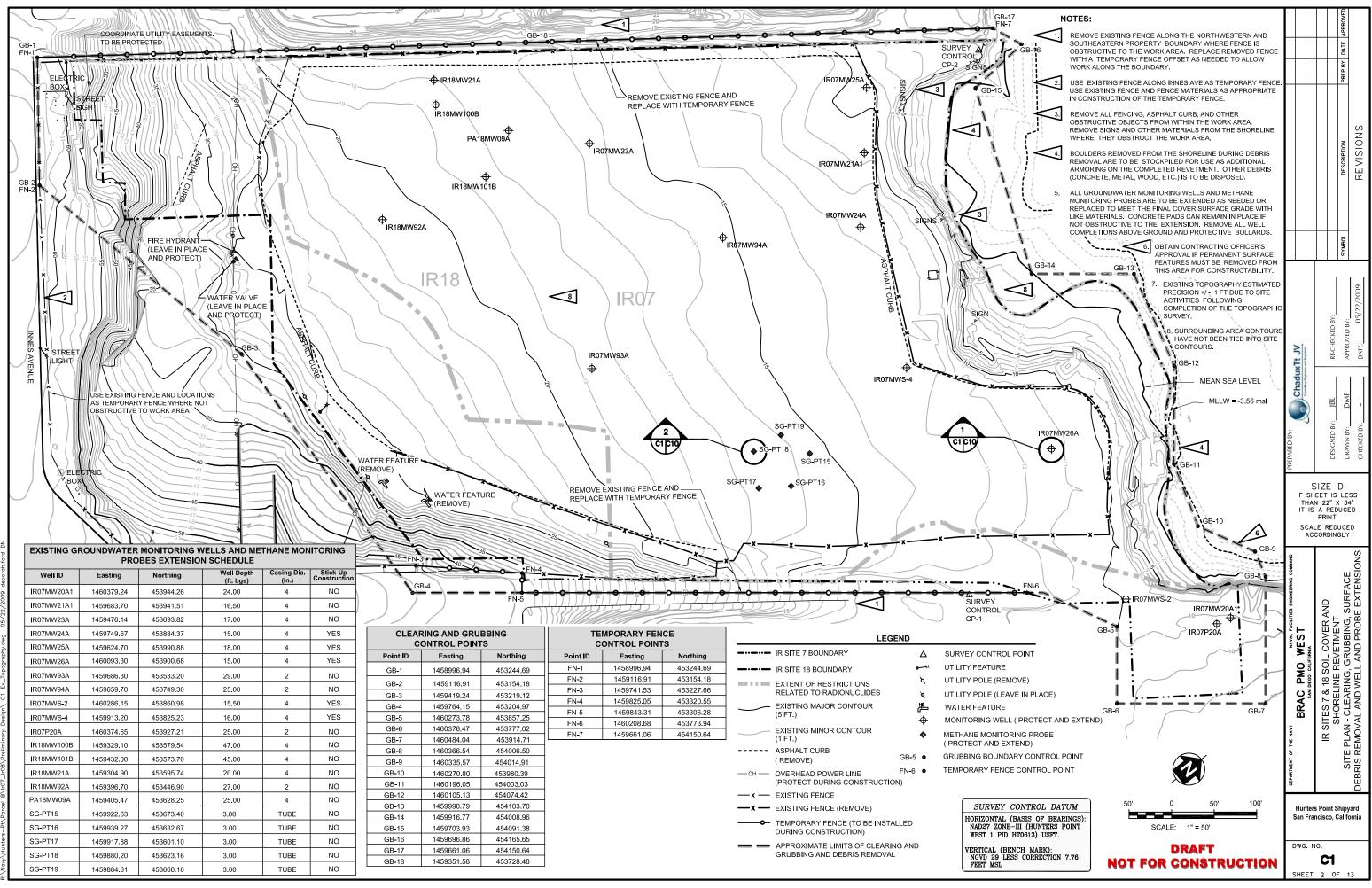
BASIS OF BEARINGS AND ELEVATION

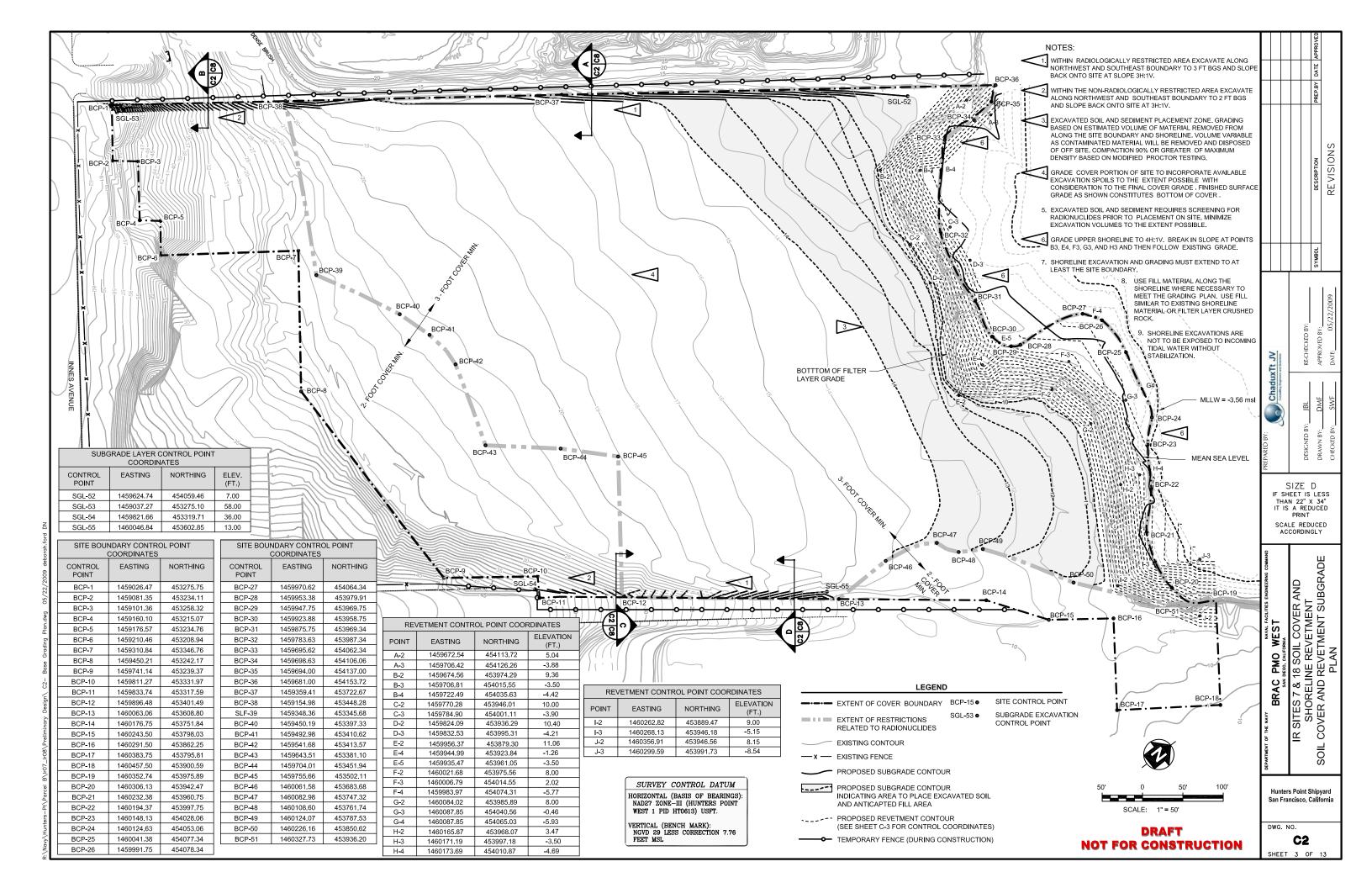
HORIZONTAL: NAD 1927 ZONE-III (HUNTERS POINT WEST 1 PID HT0613) USFT. VERTICAL

NGVD 29 LESS CORRECTION 7 76 FEET MSL

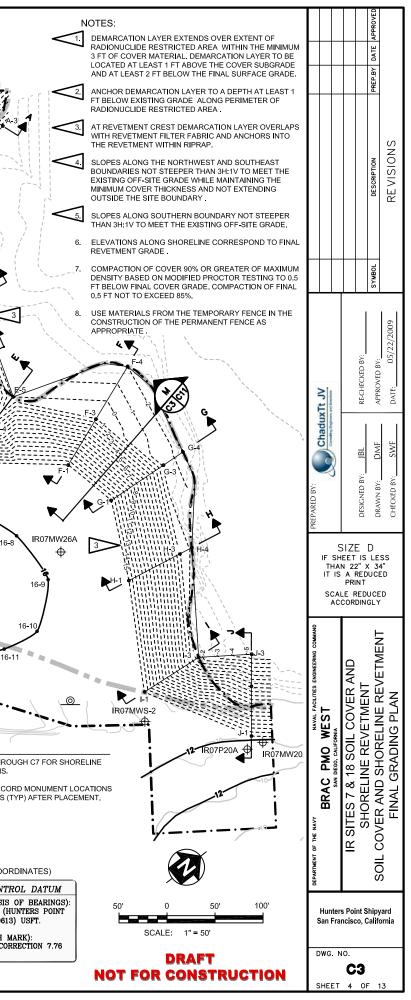
LIMITS OF RESPONSIBILITY

THE DESIGNER AND ITS SUBCONTRACTORS SHALL NOT BE RESPONSIBLE FOR VARIANCES FROM THE CONSTRUCTION SPECIFICATIONS, DESIGN DRAWINGS, AND OTHER REQUIREMENTS AND RECOMMENDATIONS UNAPPROVED BY THE DESIGNER.



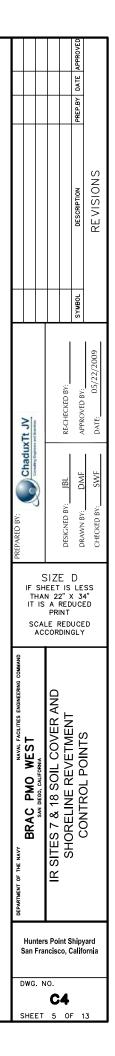


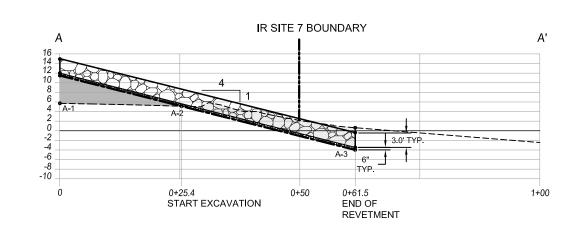
SPHUT STOLES STO		
24-1 25-1 25-1 25-1 25-1 25-1 25-1 25-1 25	1 21-1 21-2 21-2 21-2 21-2 21-3 PA18MW09A IR07MW23A ↓ IR07MW23A ↓ I	17-1 16-1 15-2 15-3
	9 1 26-2 26-2 26-2 26-2 26-2 26-3 1 1 1 1 1 1 1 1 1 1 1 1 1	IR07MW21A1 19-3 19-3 10-3
	25-4 25-4 24-3	21-6 18-2 17-5 16-5
		20-5 21-7 21-7 21-7 21-7 21-7 21-7 21-7 21-7
REVETMENT CONTROL POINT COORDINATES		23-4 22-5 20-6 20-6 20-6 20-6 20-6 20-6 20-6 20-6
POINT EASTING NORTHING ELEVATION (FT.)	x - x - x	9 19-8 19-8 19-8 19-8 19-8 19-8 19-8 19-
A-1 1459648.27 454104.74 15.00 A-3 1459706.42 454126.26 -0.38 B-1 1459669.87 453968.27 15.00		
B-3 1459706.81 454015.55 0.00 B-4 1459722.49 454035.63 -0.92	DRAINAGE SWALE CONTROL POINT COORDINATES	NOTES (cont.)
C-1 1459769.00 453941.19 15.00 C-3 1459784.90 454001.11 -0.40 C-4 145000.02 45002.02 4000.02	POINT EASTING NORTHING ELEVATION FT.	DRAINAGE SWALE SLOPES 3H:1V ON SIDE FACING UPGRADIENT AND 10H:1V ON SIDE FACING DOWNGRADIENT. 10. REFER TO C5 THROU CROSS SECTIONS.
D-1 1459823.63 453933.06 12.00 D-3 1459832.53 453995.31 -0.71 E-1 1459956.62 453878.33 15.00	DS-1 1459169.98 453390.68 27.40 DS-2 1459209.43 453386.50 27.43	PLACE COMPOSITE TURF REINFORCED MATTING (CTRM) ALONG WATERCOURSE TO ELEVATION 1 FT ABOVE WATER COURSE.
E-4 1459944.99 453973.33 13.00 E-5 1459945.47 453961.05 0.00	DS-3 1459347.70 453339.84 26.00 7 7 11 11 DS-4 1459771.01 453384.65 25.51 25.51 25.51 25.51	1 1 011
F-1 1460026.69 453962.45 15.00 F-3 1460006.79 454014.55 1.02	DS-5 1459988.70 453515.24 20.00	LEGEND
F-41459983.97454074.31-2.27G-11460083.25453974.9115.00	REVETMENT CROSS SECTION LOCATION	EXTENT OF COVER BOUNDARY A-1 • REVETMENT CONTROL POINT EXTENT OF RESTRICTIONS 22-5 • FINAL COVER CONTROL POINT (SEE SHEET C4 FOR COOR
G-3 1460087.85 454040.56 -1.46 G-4 1460087.85 454065.03 -2.43 U/4 140004044 15000044 150000	CROSS SECTION SHEET CROSS SECTION SHEET A C-5 F C-6	RELATED TO RADIONUCLIDES ϕ MONITORING WELL SURVEY CONTR
H-1 1460160.41 453938.16 15.00 H-3 1460171.19 453997.18 0.00 L14 4100172.00 4100172.00 1.40	A C-5 F C-6 B C-5 G C-7 C C-5 H C-7	EXISTING CONTOUR METHANE MONITORING PROBE HORIZONTAL (BASIS NAD27 ZONE-III (HU WEST 1 PID HT0613 PROPOSED FINAL COVER CONTOUR IIIIIIIIIIIIIIII DRAINAGE SWALE WEST 1 PID HT0613
H-4 1460173.69 454010.87 -1.19 I-1 1460261.91 453879.72 15.00 I-3 1460268.13 453946.18 -1.65	D C-6 I C-7 E C-6 J C-7	VERTICAL (BENCH M NGVD 29 LESS COR
I-3 1460208.13 453940.18 -1.05 J-1 1460366.54 453939.02 15.00 J-3 146029.59 453991.73 -5.04		COMPOSITE TURF REINFORCED DS-1 DRAINAGE CONTROL POINT
		MATTING (CTRM)



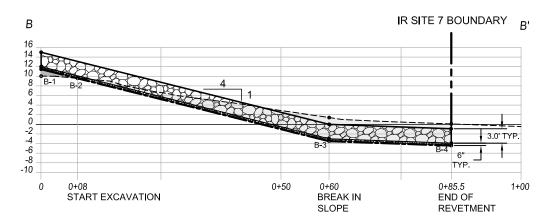
ADDITIONAL REVETMENT BOUNDARY CONTROL POINT COORDINATES							
POINT	EASTING	NORTHING	ELEVATION				
15-1	1459520.68	453921.63	15.00				
15-2	1459598.04	454005.55	15.00				
15-3	1459635.06	454060.88	15.00				
15-4	1459649.00	454102.60	15.00				
16-1	1459498.70	453889.15	16.00				
16-2	1459554.22	453925.04	16.00				
16-3	1459613.74	453919.42	16.00				
16-4	1459786.16	453901.18	16.00				
16-5	1459906.78	453874.85	16.00				
16-6	1459981.12	453855.29	16.00				
16-7	1460007.31	453859.17	16.00				
16-8	1460051.68	453874.67	16.00				
16-9	1460107.81	453872.50	16.00				
16-10	1460143.12	453830.20	16.00				
16-11	1460136.64	453791.86	16.00				
16-12	1460075.35	453658.66	16.00				
17-1	1459432.35	453803.90	17.00				
17-2	1459490.07	453833.78	17.00				
17-3	1459588.62	453838.87	17.00				
17-4	1459717.87	453827.97	17.00				
17-5	1459837.97	453813.87	17.00				
17-6	1460036.90	453782.85	17.00				
17-7	1460058.39	453771.68	17.00				
17-8	1460068.91	453755.49	17.00				
17-9	1460062.66	453714.03	17.00				
17-10	1460056.49	453652.90	17.00				
18-1	1459393.06	453753.40	18.00				
18-2	1459720.03	453743.38	18.00				
18-3	1459914.16	453730.30	18.00				
18-4	1460004.30	453706.46	18.00				
18-5	1460014.51	453699.19	18.00				
18-6	1460024.20	453673.62	18.00				
18-7	1460026.72	453599.13	18.00				
19-1	1459365.11	453710.21	19.00				
19-2	1459502.15	453699.99	19.00				
19-3	1459548.38	453692.75	19.00				
19-4	1459808.48	453660.72	19.00				
19-5	1459916.67	453644.22	19.00				
19-6	1459967.32	453620.60	19.00				
19-7	1459987.56	453603.61	19.00				
19-8	1460003.67	453583.53	19.00				
19-9	1460011.65	453563.23	19.00				

ADDITIONAL REVETMENT BOUNDARY CONTROL POINT COORDINATES							
POINT	EASTING	NORTHING	ELEVATION				
20-1	1459220.06	453534.21	20.00				
20-2	1459320.94	453636.06	20.00				
20-3	1459460.27	453652.11	20.00				
20-4	1459527.12	453648.09	20.00				
20-5	1459798.05	453605.24	20.00				
20-6	1459965.66	453560.11	20.00				
20-7	1459999.24	453546.18	20.00				
21-1	1459195.51	453486.80	21.00				
21-2	1459245.79	453519.42	21.00				
21-3	1459368.76	453577.09	21.00				
21-4	1459462.80	453600.02	21.00				
21-5	1459527.97	453602.01	21.00				
21-6	1459633.58	453590.31	21.00				
21-7	1459796.10	453561.37	21.00				
21-8	1459988.09	453532.65	21.00				
22-1	1459180.07	453463.88	22.00				
22-2	1459390.84	453521.86	22.00				
22-3	1459494.17	453541.55	22.00				
22-4	1459535.33	453543.17	22.00				
22-5	1459905.43	453501.33	22.00				
22-6	1459979.74	453518.09	22.00				
23-1	1459160.56	453440.29	23.00				
23-2	1459386.27	453475.43	23.00				
23-3	1459542.26	453490.87	23.00				
23 - 4	1459864.99	453458.90	23.00				
23 - 5	1459975.16	453509.34	23.00				
24-1	1459153.99	453430.19	24.00				
24-2	1459230.88	453435.41	24.00				
24-3	1459550.50	453437.92	24.00				
24-4	1459806.98	453434.21	24.00				
24-5	1459879.87	453443.41	24.00				
24 - 6	1459965.77	453499.12	24.00				
25-1	1459145.58	453418.93	25.00				
25-2	1459230.41	453423.80	25.00				
25-3	1459377.01	453393.57	25.00				
25-4	1459501.67	453385.79	25.00				
26-5	1459759.83	453408.33	25.00				
25-6	1459815.85	453402.89	25.00				
26-1	1459254.10	453391.12	26.00				
26-2	1459343.27	453349.78	26.00				
26-3	1459421.08	453330.25	26.00				
26 - 4	1459648.81	453333.20	26.00				
26 - 5	1459741.55	453348.98	26.00				
26-6	1459791.40	453372.70	26.00				





			ELEVATION				
POINT	EASTING	NORTHING	EXISTING GRADE	TOP OF RIPRAP	TOP OF FILTER LAYER	BOTTOM OF FILTER LAYER	
A-1	1459648.27	454104.74	1.71	15.00	12.00	11.50	
A-2	1459672.54	454113.72	5.04	-	-	-	
A-3	1459706.42	454126.26	0.62	-0.38	-3.38	-3.88	



REVETMENT

			ELEVATION			
POINT	EASTING	NORTHING	EXISTING GRADE	TOP OF RIPRAP	TOP OF FILTER LAYER	BOTTOM OF FILTER LAYER
B-1	1459669.87	453968.27	10.04	15.00	12.00	11.50
B-2	1459674.56	453974.29	9.36		-	-
B-3	1459706.81	454015.55	1.41	0.00	-3.00	-3.50
B-4	1459722.49	454035.63	0.08	-0.92	-3.92	-4.42

			ELEVATION			
POINT	EASTING	NORTHING	EXISTING GRADE	TOP OF RIPRAP	TOP OF FILTER LAYER	BOTTOM OF FILTER LAYER
C-1	1459769.00	453941.19	10.67	15.00	12.00	11.50
C-2	1459770.28	453946.01	10.00		-	-
C-3	1459784.90	454001.11	0.60	-0.40	-3.40	-3.90

NOTE:

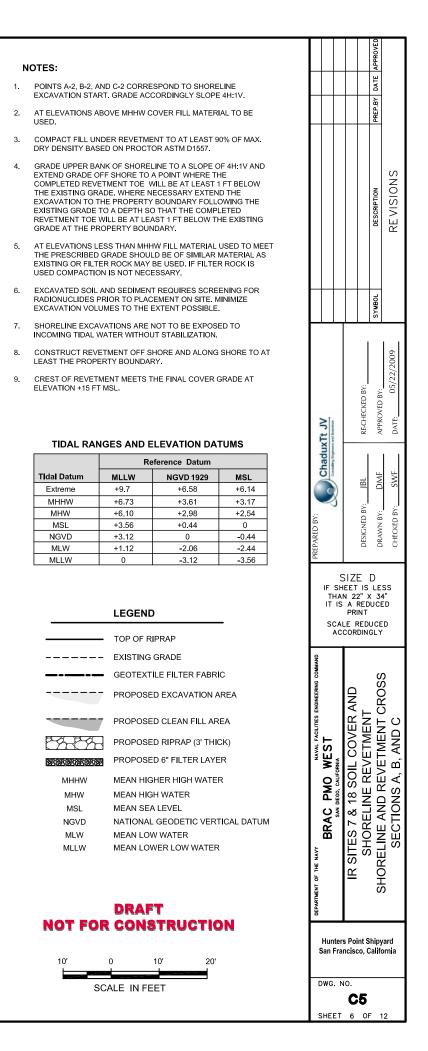
ELEVATIONS ARE IN FEET ABOVE MEAN SEA LEVEL.

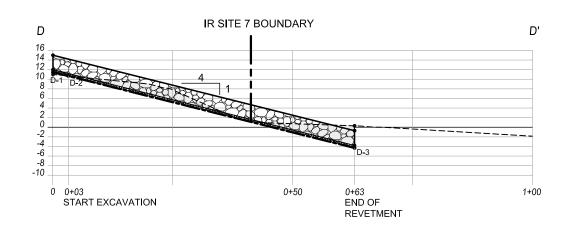
С

C-1

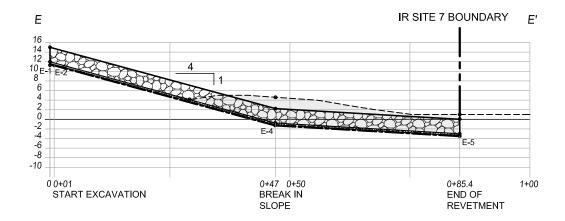
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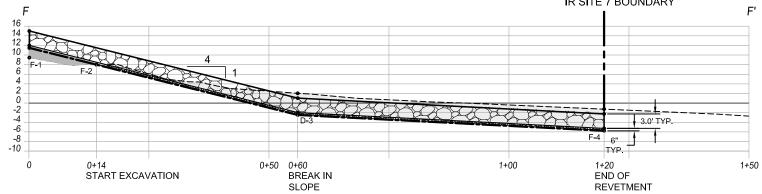




			ELEVATION			
POINT	EASTING	NORTHING	EXISTING GRADE	TOP OF RIPRAP	TOP OF FILTER LAYER	BOTTOM OF FILTER LAYER
D-1	1459823.63	453933.06	11.00	15.00	12.00	11.50
D-2	1459824.09	453936.29	10.40	-	-	-
D-3	1459832.53	453995.31	0.30	-0.71	-3.71	-4.21



			ELEVATION				
POINT	EASTING	NORTHING	EXISTING GRADE	TOP OF RIPRAP	TOP OF FILTER LAYER	BOTTOM OF FILTER LAYER	
E-1	1459956.62	453878.33	11.28	15.00	12.00	11.50	
E-2	1459956.37	453879.30	11.06	-	-		
E-3	1459949.41	453906.53	4.16	-	-		
E-4	1459944.99	453923.84	4.59	2.23	-0.76	-1.26	
E-5	1459935.47	453961.05	1.00	0.00	-3.00	-3.50	

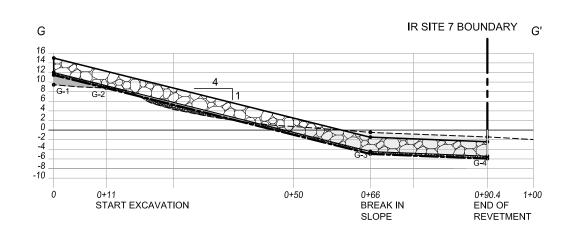


IR SITE 7 BOUNDARY

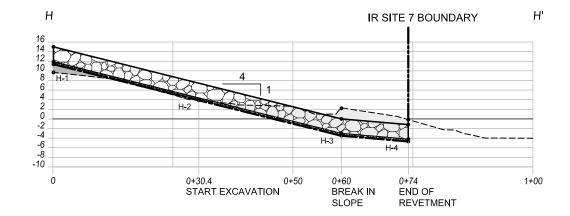
							NOTES:						APPROVED
 													
							2. AT ELEVAT	FIONS ABOVE MH	HW COVER FILL MATERI	AL TO BE USED.			REP.BY
 	TINO				TTOLLOF					0% OF MAX.			<u>u</u>
	ADE 11.00 10.40	RIF 1	PRAP FILTE 5.00	R LAYER FILT	ER LAYER 11.50		EXTEND G REVETMEN GRADE. W PROPERTI DEPTH SO LEAST 1 F BOUNDAR' 5. AT ELEVAI THE PRES EXISTING (RADE OFF SHOR NT TOE WILL BE HERE NECESSAF / BOUNDARY FOI THAT THE COMM F BELOW THE EX Y. TIONS LESS THAI CRIBED GRADE S DR FILTER ROCK	RE TO A POINT WHERE TH AT LEAST 1 FT BELOW TI YEXTEND THE EXCAVA LLOWING THE EXISTING "LETED REVETMENT TOO USTING GRADE AT THE P N MHHW FILL MATERIAL U SHOULD BE OF SIMILAR N MAY BE USED. IF FILTEF	IE COMPLETED HE EXISTING TION TO THE GRADE TO A WILL BE AT ROPERTY JSED TO MEET JATERIAL AS			DESCRIPTION RE VISIONS
							6. EXCAVATE RADIONUC	ED SOIL AND SED	DIMENT REQUIRES SCREE	INIMIZE			
Image: transmission of the second state state of the second state of the second state of the se							7. SHORELIN	E EXCAVATIONS	ARE NOT TO BE EXPOSE				SYMBOL
										SHORE TO AT			
							9. CREST OF	REVETMENT ME		GRADE AT			/22/2009
								LE	GEND	_		ED BY:	^{BY:}
	TING	ТС		POF BO	TTOM OF				P OF RIPRAP		3	CHECK	APPROVE
15.9 2.23 -0.75 1.28 10.0 0.00 -3.00 -3.50 PROPOSED CLEAN FILL AREA PROPOSED CLEAN FILL AREA 10.0 PROPOSED CLEAN FILL AREA PROPOSED CLEAN FILL AREA PROPOSED FILTER LAVER PROPOSED FILTER	ADE	RI	PRAP FILTE	R LAYER FILT	ER LAYER			EXI	STING GRADE		xTt.	RE RE	4 A
15.9 2.23 -0.75 1.28 10.0 0.00 -3.00 -3.50 PROPOSED CLEAN FILL AREA PROPOSED CLEAN FILL AREA 10.0 PROPOSED CLEAN FILL AREA PROPOSED CLEAN FILL AREA PROPOSED FILTER LAVER PROPOSED FILTER								GEG	OTEXTILE FILTER FABR	liC	ladu		
								PRO	OPOSED EXCAVATION	AREA	5	BL	SWF
$\frac{1}{160002168} = \frac{1}{100002668} + \frac{1}{10001162} + \frac{1}{10000162} + \frac{1}{100000162} + \frac{1}{10000000000000} + \frac{1}{10000000000000000000000000000000000$								PRO	OPOSED CLEAN FILL AF	REA			
MHHW MEAN HIGHER HIGH WATER SIZE D MHW MEAN HIGH WATER MEAN HIGH WATER SIZE D MSQ MEAN SEA LEVEL MSQ NATIONAL GEODETIC VERTICAL DATUM MILW MEAN ALLOW WATER SIZE D MLW MEAN LOW WATER MLW MEAN LOW WATER SIZE D SIZE D MLW MEAN LOW WATER MLW MEAN LOW WATER SIZE D D											5	ED BY:	BY:
МННW MEAN HIGHER HIGH WATER SIZE D MHW MEAN HIGH WATER SIZE D MSL MEAN HIGH WATER SIZE D MSL MEAN SEA LEVEL SIZE D MUW MEAN SEA LEVEL SIZE D MUW MEAN ALGOW WATER SIZE D MLW MEAN LOW WATER SIZE D MILW MEAN LOW WATER SIZE D											IRED E	SIGNE	DRAWN BY CHECKED B
MHHW MAA HIGHER HILH WATER MHW MAA HIGHER HILH WATER MSL MEAN HIGH WATER MSL MEAN SEA LEVEL NGVD NATIONAL GEODETIC VERTICAL DATUM MLIW MEAN LOWER LOW WATER MILW MEAN LOWER LOW WATER SCALE REDUCED ELEVATION MILW MEAN LOWER LOW WATER											PREP/	ة آ	σċ
MSL MEAN SEA LEVEL NGVD NATIONAL GEODETIC VERTICAL DATUM LIW MEAN LOWER LOW WATER MLW MEAN LOWER LOW WATER SCALE REQUEEL SCALE REQUEEL POINT EXISTING ELEVATION F1 1480026.80 453962.45 9.46 15.00 12.00 11.50 F2 1480021.88 453962.45 9.46 15.00 12.00 11.50 1.0										л)
NGU NATIONAL GEODETIC VE TICAL DATUM MLW IT IS A REDUCED SCALE REDUCED											IF SH	HEET IS	LESS
MLW MEAN LOW WATER SALE PEDUER MLW MEAN LOW WATER SALE PEDUER SALE PEDUER MLW MEAN LOW WATER MLW MEAN LOW WATER SALE PEDUER SALE PEDUER POINT AG0026.69 45307.63 8.60 1460006.79 454014.55 2.02 1.02 1.120 -5.27 NTE: ELEVATION ARE IN FEET ABOVE MEAN SEA LEVEL. Tible LEVATION DATUMS Tible ARNES AND ELEVATION DATUMS Tible ARNES AND ELEVATION DATUMS Tible ARNES AND ELEVATION DATUMS Tible ARNES AND ELEVATION DATUMS Tible ARNES AND ELEVATION DATUMS Tible ARNES AND ELEVATION DATUMS Tible ARNES AND ELEVATION DATUMS Tible ARNES AND ELEVATION DATUMS Tible ARNE ARIA 12.02.02.02.02.02.02.02.02.02.02.02.02.02										TICAL DATUM		S A REDU	
POINT EASTING NORTHING EXISTING TUDO OF GRADE POINT EXISTING TUDO OF GRADE BOTTOM OF FILTER LAYER BOTTOM OF FILTER LAYER Of OF FILTER LAYER Of OF FILT										२			
POINT EASTING NORTHING EXISTING TOP OF BOTTOM OF F-1 1460026.69 453962.45 9.46 15.00 12.00 11.50 F-2 1460026.89 453975.56 8.00 - - - - F-3 1460026.89 453975.56 8.00 -													
F-2 1460021.68 453975.56 8.00	[TOP OF		BOTTOM OF			ERING COM		SSC
F-2 1460002.188 453975.56 8.00	-				OIVADE				R		ENGINE	AN	CR
F-4 1459983.97 454074.31 -1.27 -2.27 -5.77 NOTE: ELEVATIONS ARE IN FEET ABOVE MEAN SEA LEVEL. Image: Construction of the second secon	ŀ	F-2	1460021.68	453975.56	8.00	-		-	_		ILITIES	ER L	Ĕ
NOTE: ELEVATIONS ARE IN FEET ABOVE MEAN SEA LEVEL. IDAL RANGES AND ELEVATION DATUMS TIDAL RANGES AND ELEVATION DATUMS Image: Sea Level.	ŀ											No N	AND
Tidal Datum MLLW NGVD 1929 MSL Extreme +9.7 +6.58 +6.14 MHW +6.73 +3.61 +3.17 MHW +6.10 +2.98 +2.54 MSL +3.56 +0.44 0 NGVD +3.12 0 -0.44 MLW +1.12 -2.06 -2.44 MLW 0 -3.56 DCALE DWG. NO.	L	1	193903.97	+3+074.31	-1.27	-2.21	-0.27	-5.11				ЧС	ЧЦ
Tidal Datum MLLW NGVD 1929 MSL Extreme +9.7 +6.58 +6.14 MHW +6.73 +3.61 +3.17 MHW +6.10 +2.98 +2.54 MSL +3.56 +0.44 0 NGVD +3.12 0 -0.44 MLW +1.12 -2.06 -2.44 MLW 0 -3.56 DCALE IN FEET											, in the second s	N N	Ъ П
Tidal Datum MLLW NGVD 1929 MSL Extreme +9.7 +6.58 +6.14 MHW +6.73 +3.61 +3.17 MHW +6.10 +2.98 +2.54 MSL +3.56 +0.44 0 NGVD +3.12 0 -0.44 MLW +1.12 -2.06 -2.44 MLW 0 -356 SCALE IN FEET DWG. NO.											۳ ۵	N 18	D R NS
Tidal Datum MLLW NGVD 1929 MSL Extreme +9.7 +6.58 +6.14 MHW +6.73 +3.61 +3.17 MHW +6.10 +2.98 +2.54 MSL +3.56 +0.44 0 NGVD +3.12 0 -0.44 MLW +1.12 -2.06 -2.44 MLW 0 -3.56 DCALE IN EEET			TIONS ARE IN FE	ET ABOVE ME	AN SEA LEVEL.							с ВЦ	NE AND R ECTIONS
Tidal Datum MLLW NGVD 1929 MSL Extreme +9.7 +6.58 +6.14 MHW +6.73 +3.61 +3.17 MHW +6.10 +2.98 +2.54 MSL +3.56 +0.44 0 NGVD +3.12 0 -0.44 MLW +1.12 -2.06 -2.44 MLW 0 -356 SCALE IN FEET DWG. NO.											BR	S 7	ШN
Tidal Datum MLLW NGVD 1929 MSL Extreme +9.7 +6.58 +6.14 MHW +6.73 +3.61 +3.17 MHW +6.10 +2.98 +2.54 MSL +3.56 +0.44 0 NGVD +3.12 0 -0.44 MLW +1.12 -2.06 -2.44 MLW 0 -356 SCALE IN FEET DWG. NO.												E H	S
Tidal Datum MLLW NGVD 1929 MSL Extreme +9.7 +6.58 +6.14 MHW +6.73 +3.61 +3.17 MHW +6.10 +2.98 +2.54 MSL +3.56 +0.44 0 NGVD +3.12 0 -0.44 MLW +1.12 -2.06 -2.46 MLW 0 -3.56 DCALE IN FEET			TIDAL RAN	GES AND EL	EVATION DAT	UMS					OF THE -	R S	łor
Extreme +9.7 +6.58 +6.14 MHW +6.73 +3.61 +3.17 MHW +6.10 +2.98 +2.54 MSL +3.56 +0.44 0 NGVD +3.12 0 -0.44 MLW +1.12 -2.06 -2.46 MLW 0 -3.12 -3.56											TMENT		Ϋ́
Extreme +9.7 +6.58 +6.14 MH-W +6.73 +3.61 +3.17 MHW +6.10 +2.98 +2.54 MSL +3.56 +0.44 0 NGVD +3.12 0 -0.44 MLW +1.12 -2.06 -2.44 MLW 0 -3.12 -3.56		Г		Refe					DBAET		PAR	1	
WHTWW 4-5.73 4-3.61 4-3.17 MHW +6.10 +2.98 +2.54 MSL +3.56 +0.44 0 NGVD +3.12 0 -0.44 MLW +1.12 -2.06 -2.44 MUW 0 -3.56 DWG. NO.			Tidal Datum	MLLW					DIMATI		ä		
MSL +3.56 +0.44 0 NGVD +3.12 0 -0.44 MLW +1.12 -2.06 -2.44 MLW 0 -3.56 SCALE IN FEET			Tidal Datum Extreme	MLLW +9.7	+6.58	+6.14	N			ΓΙΟΝ	×		
NGVD +5.12 0 -0.44 MLW +1.12 -2.06 -2.44 MLW 0 -3.12 -3.56		-	Tidal Datum Extreme MHHW	MLLW +9.7 +6.73	+6.58 +3.61	+6.14 +3.17	N			ΓΙΟΝ	Hunter		
		-	Tidal Datum Extreme MHHW MHW MSL	MLLW +9.7 +6.73 +6.10 +3.56	+6.58 +3.61 +2.98 +0.44	+6.14 +3.17 +2.54 0	N	OT FOR	CONSTRUCT		Hunter		
MILLAV 0 - 5.12 - 5.00 SCALE IN FEET C6		-	Tidal Datum Extreme MHHW MHW MSL NGVD	MLLW +9.7 +6.73 +6.10 +3.56 +3.12	+6.58 +3.61 +2.98 +0.44 0	+6.14 +3.17 +2.54 0 -0.44	N	OT FOR	CONSTRUCT		Hunter San Fra	ancisco, Ca	

SHEET 7 OF 12

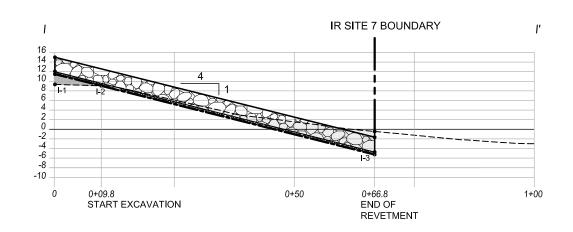
	Reference Datum						
Tidal Datum	MLLW	NGVD 1929	MSL				
Extreme	+9.7	+6.58	+6.14				
MHHW	+6.73	+3.61	+3.17				
MHW	+6.10	+2.98	+2.54				
MSL	+3.56	+0.44	0				
NGVD	+3.12	0	-0.44				
MLW	+1.12	-2.06	-2.44				
MLLW	0	-3.12	-3.56				

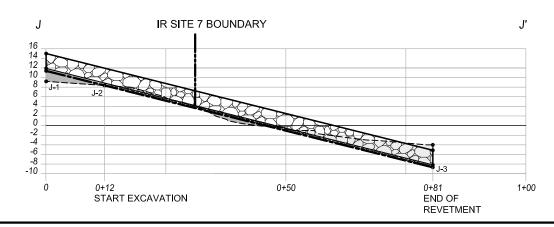


	POINT	EASTING	NORTHING	EXISTING GRADE	TOP OF RIPRAP	TOP OF	BOTTOM OF
				GRADE		FILTER LATER	FILTER LATER
	G-1	1460083.25	453974.91	9.45	15.00	12.00	11.50
	G - 2	1460084.02	453985.89	8.00		-	-
[G - 3	1460087.85	454040.56	-0.46	-1.46	-4.46	-4.96
[G-4	1460087.85	454065.03	-1.43	-2.43	-5.43	-5.93



					ELEVATION				
P	OINT	EASTING	NORTHING	EXISTING GRADE	TOP OF RIPRAP	TOP OF FILTER LAYER	BOTTOM OF FILTER LAYER		
F	1-1	1460160.41	453938.16	9.67	15.00	12.00	11.50		
F	1-2	1460165.87	453968.07	3.47		-	_		
F	+-3	1460171.19	453997.18	2.21	0.00	-3.00	-3.50		
F	1-4	1460173.69	454010.87	-0.19	-1.19	-4.19	-4.69		





				ELEVATION				
POIN	T EASTING	NORTHING	EXISTING GRADE	TOP OF RIPRAP	TOP OF FILTER LAYER	BOTTOM OF FILTER LAYER		
I-1	1460261.91	453879.72	9.35	15.00	12.00	11.50		
I-2	1460262.82	453889.47	9.00		-	-		
I-3	1460268.13	453946.18	-0.65	-1.65	-4.65	-5.15		

			ELEVATION				
POINT	EASTING	NORTHING	EXISTING GRADE	TOP OF RIPRAP	TOP OF FILTER LAYER	BOTTOM OF FILTER LAYER	
J-1	1460366.54	453939.02	9.21	15.00	12.00	11.50	
J - 2	1460356.91	453946.56	8.15	-		-	
J-3	1460299.59	453991.73	-4.04	-5.04	-8.04	-8.54	

NOTE: ELEVATIONS ARE IN FEET ABOVE MEAN SEA LEVEL.

NOTES:

- 1. POINTS G-2, H-2, I-2, AND J-2 CORRESPOND TO SHORELINE EXCAVATION START. GRADE ACCORDINGLY SLOPE 4H:1V.
- 2. AT ELEVATIONS ABOVE MHHW COVER FILL MATERIAL TO BE USED.
- 3. COMPACT FILL UNDER REVETMENT TO AT LEAST 90% OF MAX. DRY DENSITY BASED ON PROCTOR ASTM D1557.
- 4. GRADE UPPER BANK OF SHORELINE TO A SLOPE OF 4H:1V AND EXTEND GRADE OFF SHORE TO A POINT WHERE THE COMPLETED REVETMENT TOE WILL BE AT LEAST 1 FT BELOW THE EXISTING GRADE. WHERE NECESSARY EXTEND THE EXCAVATION TO THE PROPERTY BOUNDARY FOLLOWING THE EXISTING GRADE TO A DEPTH SO THAT THE COMPLETED REVETMENT TOE WILL BE AT LEAST 1 FT BELOW THE EXISTING GRADE AT THE PROPERTY BOUNDARY.
- AT ELEVATIONS LESS THAN MHHW FILL MATERIAL USED TO MEET THE PRESCRIBED GRADE SHOULD BE OF SIMILAR MATERIAL AS EXISTING OR FILTER ROCK MAY BE USED. IF FILTER ROCK IS USED COMPACTION IS NOT NECESSARY.
- 6. EXCAVATED SOIL AND SEDIMENT REQUIRES SCREENING FOR RADIONUCLIDES PRIOR TO PLACEMENT ON SITE. MINIMIZE EXCAVATION VOLUMES TO THE EXTENT POSSIBLE.
- 7. SHORELINE EXCAVATIONS ARE NOT TO BE EXPOSED TO INCOMING TIDAL WATER WITHOUT STABILIZATION.
- 8. CONSTRUCT REVETMENT OFF SHORE AND ALONG SHORE TO AT LEAST THE PROPERTY BOUNDARY.
- 9. CREST OF REVETMENT MEETS THE FINAL COVER GRADE AT ELEVATION +15 FT MSL.

TIDAL RANGES AND ELEVATION DATUMS

	Reference Datum					
Tidal Datum	MLLW	NGVD 1929	MSL			
Extreme	+9.7	+6.58	+6.14			
MHHW	+6.73	+3.61	+3.17			
MHW	+6.10	+2.98	+2.54			
MSL	+3.56	+0.44	0			
NGVD	+3.12	0	-0.44			
MLW	+1.12	-2.06	-2.44			
MLLW	0	-3.12	-3.56			

MHW	+6.10	+2.98	+2.54					
MSL	+3.56	+0.44	0					
NGVD	+3.12	0	-0.44					
MLW	+1.12	-2.06	-2.44					
MLLW	0	-3.12	-3.56					
	LEGEN	1D	_					
	- TOP OF	RIPRAP						
	EXISTING GRADE							

P

22-22-

MHHW MHW MSL NGVD MLW MLLW

GEOTEXTILE FILTER FABRIC

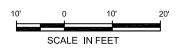
PROPOSED EXCAVATION AREA

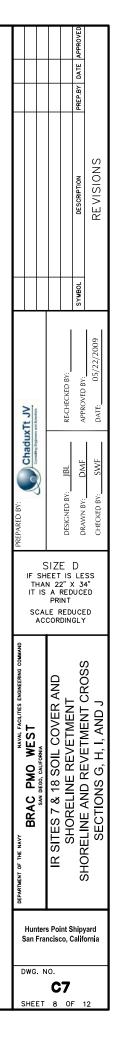
PROPOSED CLEAN FILL AREA

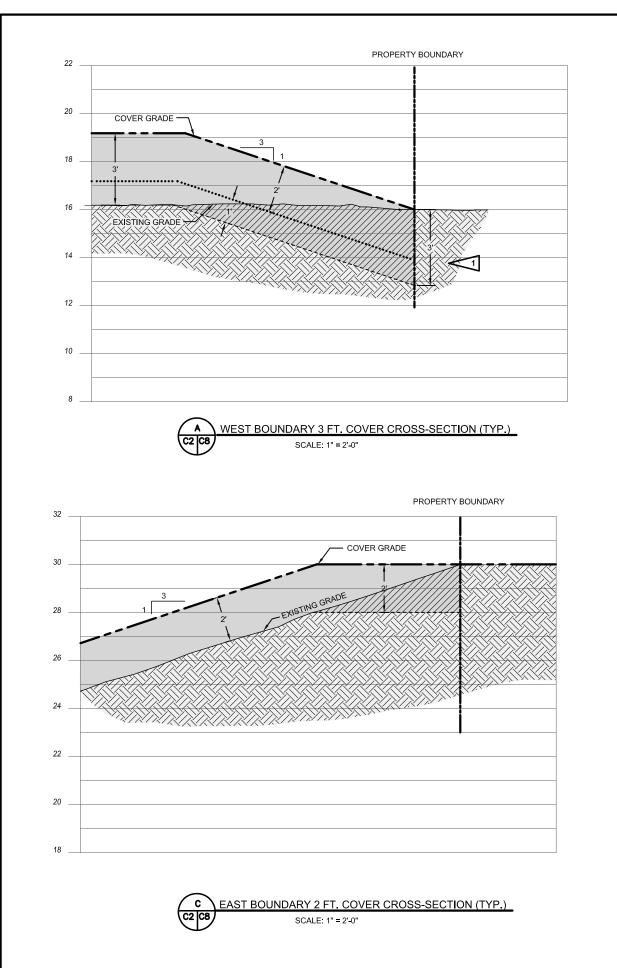
PROPOSED RIPRAP (3' THICK) PROPOSED 6" FILTER LAYER

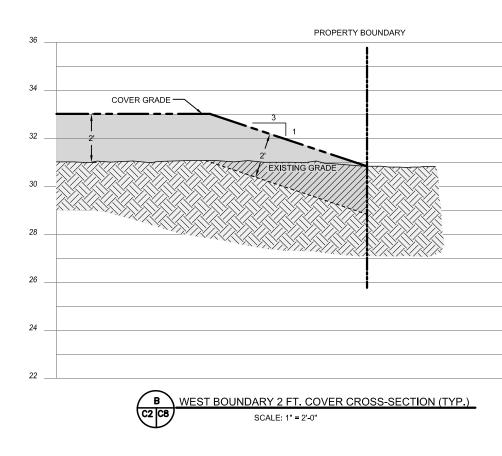
MEAN HIGHER HIGH WATER MEAN HIGH WATER MEAN SEA LEVEL NATIONAL GEODETIC VERTICAL DATUM MEAN LOW WATER MEAN LOWER LOW WATER

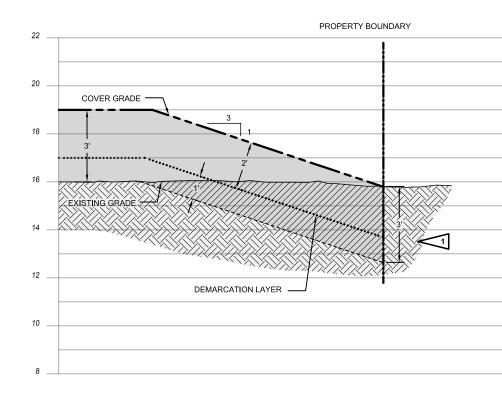
DRAFT NOT FOR CONSTRUCTION











D EAST BOUNDARY 3 FT. COVER CROSS-SECTION (TYP.) C2 C8 SCALE: 1" = 2'-0"



L	Ε	G	E	Ν	D

\sim	EXISTING SURFACE
• • • • • • • • • • • • •	DEMARCATION LAYER
~`.~	FINAL COVER SURFACE
	EXCAVATION SURFACE
	EXISTING
	PROPOSED COVER FILL
	PROPOSED EXCAVATION

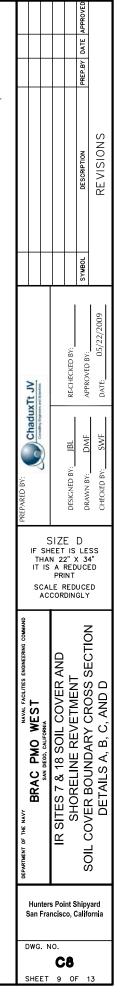
TIDAL RANGES AND ELEVATION DATUMS

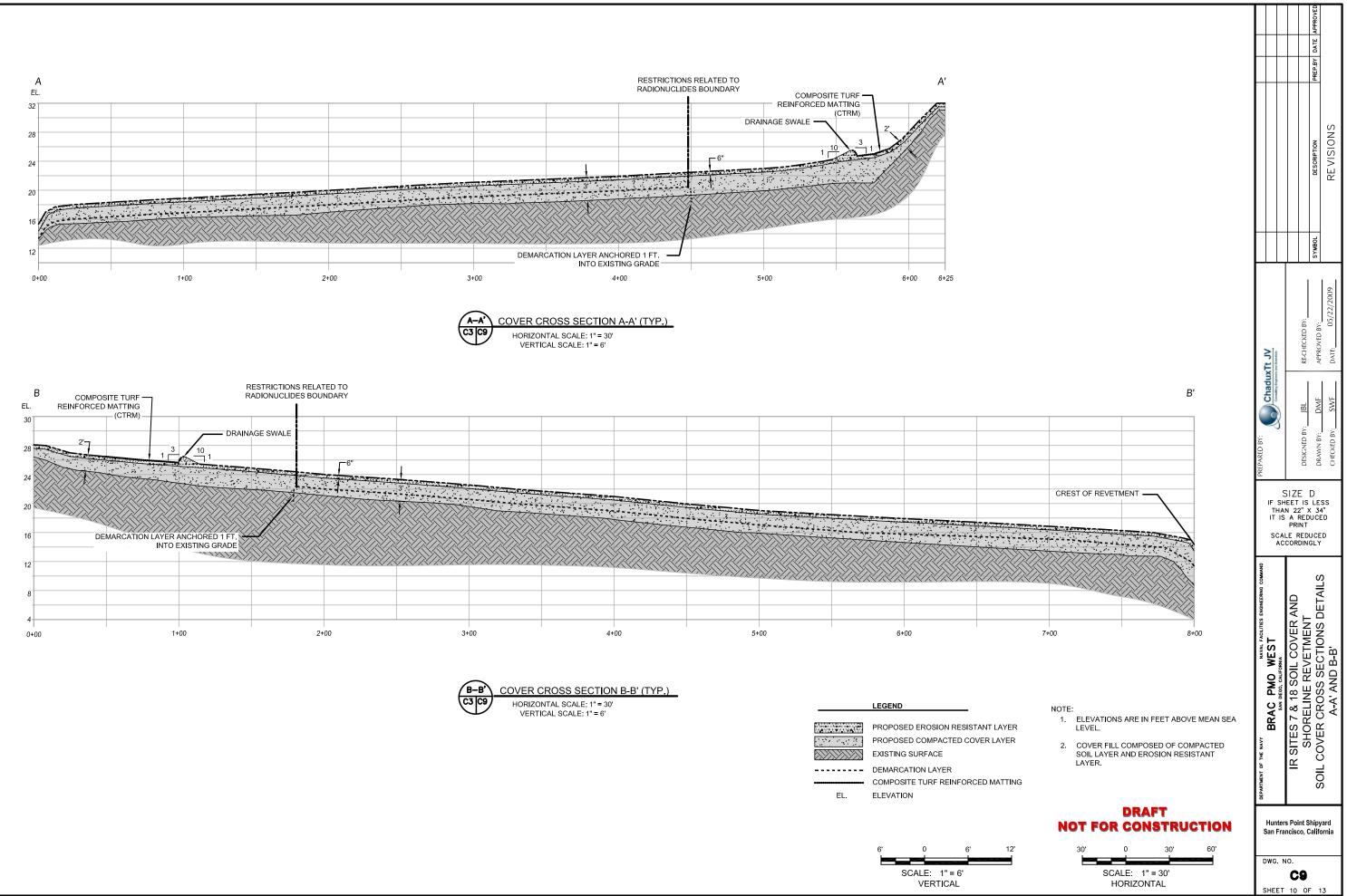
		Reference Datum						
Tidal Datum	MLLW NGVD 1929 MS							
Extreme	+9.7	+6.58	+6.14					
MHHW	+6.73	+3.61	+3.17					
MHW	+6.10	+2.98	+2.54					
MSL	+3.56	+0.44	0					
NGVD	+3.12	0	-0.44					
MLW	+1.12	-2.06	-2.44					
MLLW	0	-3.12	-3.56					

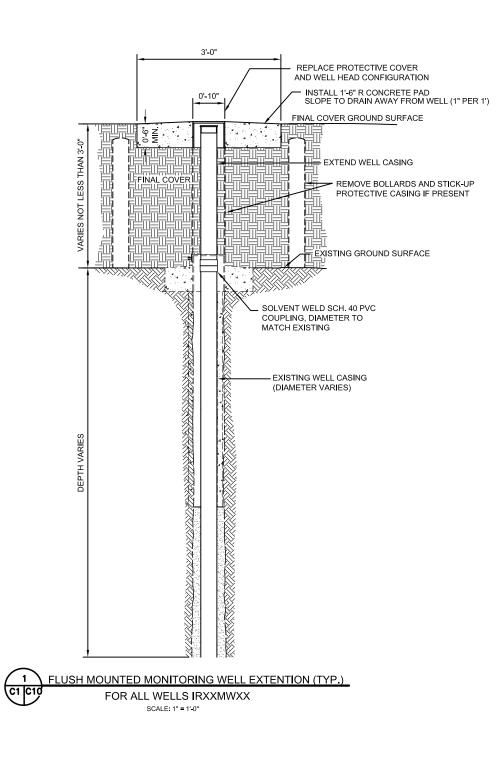
ELEVATIONS ARE IN FEET ABOVE MEAN SEA LEVEL.

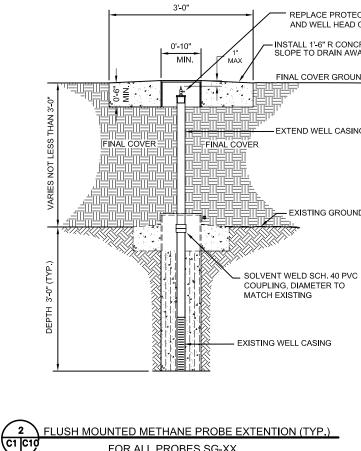
DRAFT **NOT FOR CONSTRUCTION**















ECTIVE COVER D CONFIGURATION CRETE PAD VAY FROM WELL (1" 1 JND SURFACE NG ND SURFACE C	ΡΕR 1')	IF THA IS A COMMUND	OIL COVER AND Diama is a standard in the control of
NOTE: 1. 2.	PROTECT GROUNDWATER MONITORING WELLS AND METHANE MONITORING PROBES AS NECESSARY DURING CONSTRUCTION OF THE COVER. REMOVE CONCRETE PADS AND/OR FLUSH MOUNTED PROTECTIVE CASING IF OBSTRUCTIVE TO THE EXTENSION COUPLING.	DEPARTMENT OF THE NAVY BRAC PMO WES SAN DEGO, CALIFORNIA	IR SITES 7 & 18 SOIL COVER AND SHORELINE REVETMENT MONITORING WELL AND METHAN MONITORING PROBE EXTENSION DET
2' 1	DRAFT NOT FOR CONSTRUCTION	San Fra	s Point Shipyard ncisco, California 10. C10 11 OF 13

