

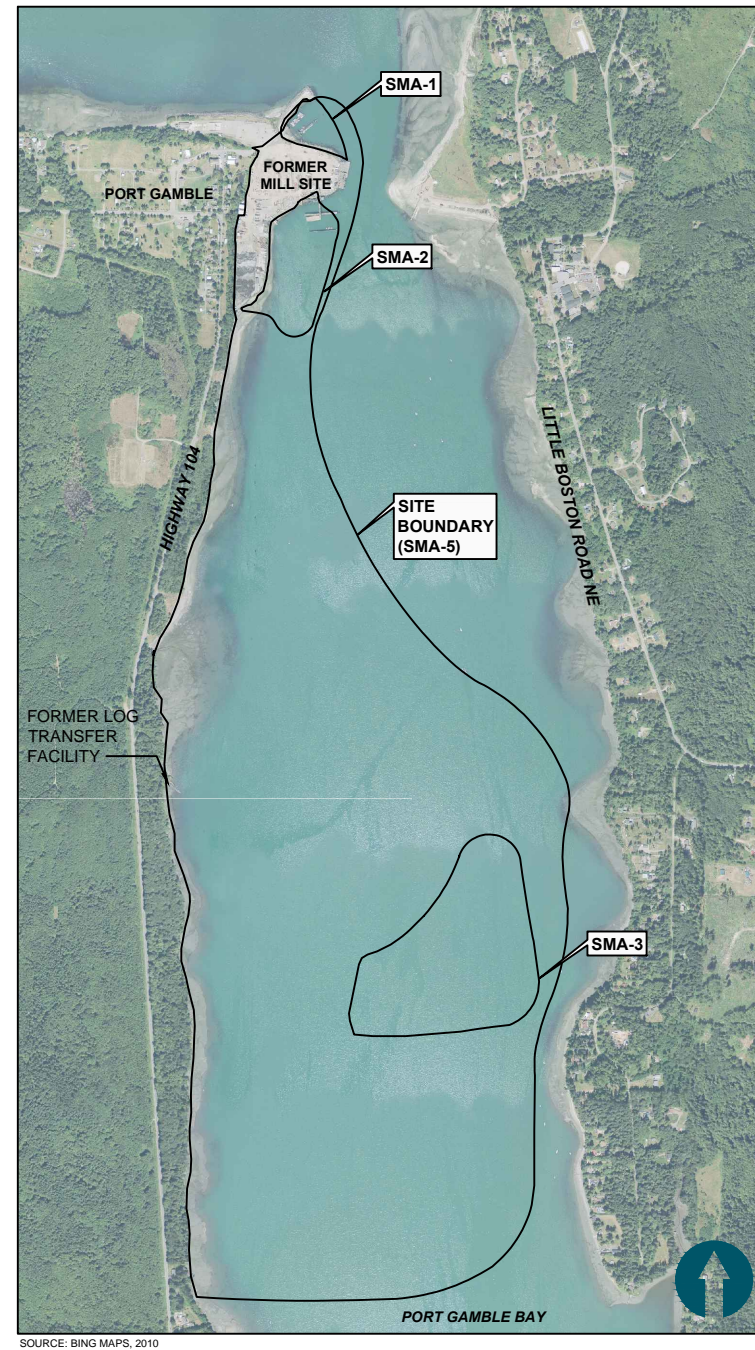
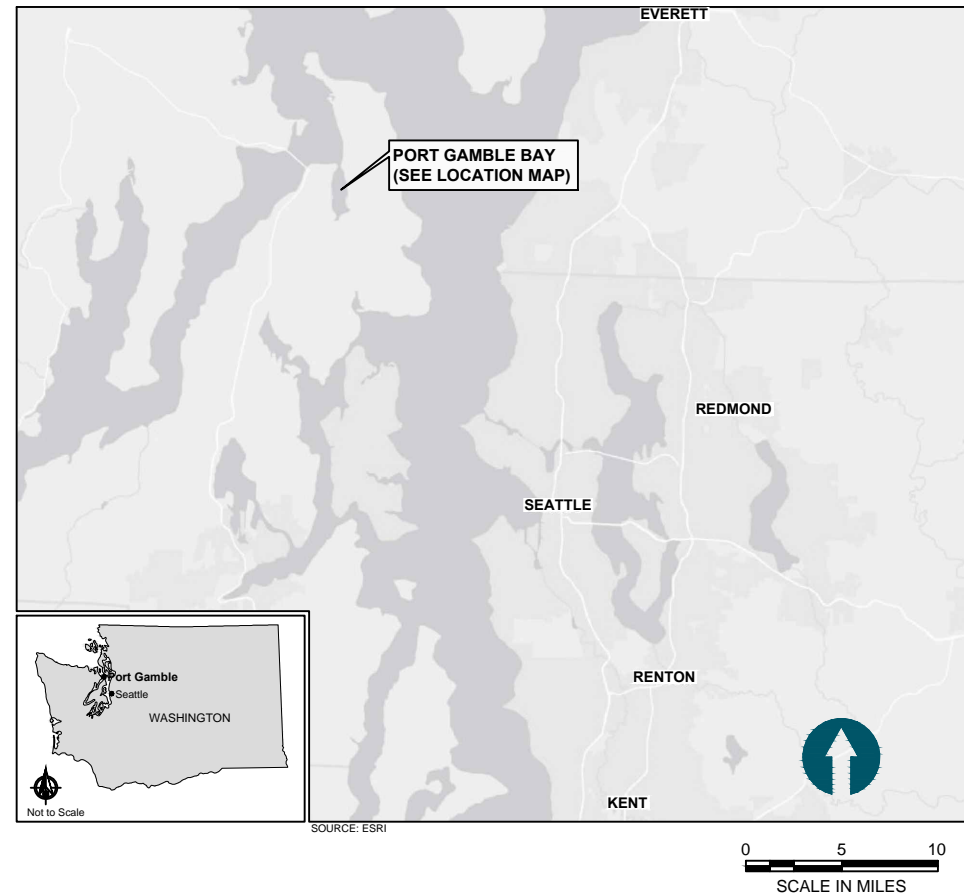
BID SET

PORT GAMBLE BAY CLEANUP

POPE RESOURCES LP / OPG PROPERTIES LLC

LOCATION MAP

VICINITY MAP



DRAWING INDEX		
SHEET	DRAWING	DESCRIPTION
1	T-01	COVER SHEET
2	T-02	GENERAL NOTES, ABBREVIATIONS, AND CONTROL POINTS
3	G-01	SITE LAYOUT AND SHEET INDEX
4	G-02	EXISTING CONDITIONS (1 OF 2)
5	G-03	EXISTING CONDITIONS (2 OF 2)
6	G-04	SITE STAGING AND ACCESS
7	G-05	STAGING AND STOCKPILING
8	G-06	VESSEL NAVIGATION LANES
9	D-01	DEMOLITION PLAN (1 OF 2) STRUCTURES AND PILING
10	D-02	DEMOLITION PLAN (2 OF 2) STRUCTURES AND PILING
11	C-01	DREDGE/EXCAVATION PLAN (SMA-1)
12	C-02	DREDGE/EXCAVATION CROSS SECTIONS (SMA-1)
13	C-03	DREDGE/EXCAVATION PLAN 1 OF 2 (SMA-2)
14	C-04	DREDGE/EXCAVATION PLAN 2 OF 2 (SMA-2)
15	C-05	DREDGE/EXCAVATION CROSS SECTIONS 1 OF 2 (SMA-2)
16	C-06	DREDGE/EXCAVATION CROSS SECTIONS 2 OF 2 (SMA-2)
17	C-07	RESIDUALS COVER AND CAPPING PLAN (SMA-1)
18	C-08	RESIDUALS COVER AND CAPPING CROSS SECTIONS (SMA-1)
19	C-09	CAPPING PLAN (SMA-2)
20	C-10	CAPPING CROSS SECTIONS (SMA-2) 1 OF 2
21	C-11	CAPPING CROSS SECTIONS (SMA-2) 2 OF 2
22	C-12	ENHANCED NATURAL RECOVERY PLACEMENT PLAN (SMA-3)
23	C-13	UPLAND CONTAINMENT SITE - MODEL AIRPLANE FIELD
24	C-14	UPLAND CONTAINMENT SITE - FORMER MILL SITE
25	C-15	TESC DETAILS
26	C-16	MISCELLANEOUS DETAILS
27	C-17	CAP DETAILS

ISSUED FOR CONSTRUCTION

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Aug 11, 2015 3:43pm chewett



POPE RESOURCES LP / OPG PROPERTIES LLC



REVISIONS				
REV	DATE	BY	APPD	DESCRIPTION

DESIGNED BY: R. PICKERING
 DRAWN BY: C. HEWETT
 CHECKED BY: J. LAPLANTE
 APPROVED BY: J. LAPLANTE
 SCALE: AS NOTED
 DATE: JULY 2015

PORT GAMBLE BAY CLEANUP

COVER SHEET

T-01

SHEET NO. 1 OF 27

ONE INCH
AT FULL SIZE, IF NOT ONE
INCH SCALE ACCORDINGLY

SMA-1 DREDGE CONTROL POINTS

POINT #	NORTHING	EASTING	POINT #	NORTHING	EASTING
1	317099.68	1211886.63	46	317270.21	1211534.74
2	317115.89	1211839.81	47	317330.04	1211474.92
3	317159.34	1211769.01	48	317380.49	1211525.37
4	317176.75	1211721.62	49	317374.13	1211531.74
5	317213.02	1211597.43	50	317381.22	1211538.83
6	317208.44	1211560.17	51	317377.96	1211542.08
7	317298.13	1211277.63	52	317349.81	1211522.77
8	317328.17	1211269.57	53	317303.22	1211529.71
9	317357.24	1211247.88	54	317284.37	1211548.91
10	317427.43	1211252.42	55	317333.22	1211471.74
11	317514.41	1211283.07	56	317389.86	1211415.09
12	317545.36	1211312.18	57	317437.14	1211462.37
13	317576.31	1211341.28	58	317380.49	1211519.01
14	317589.39	1211343.73	59	317386.86	1211531.74
15	317636.94	1211390.35	60	317446.68	1211471.91
16	317640.39	1211402.29	61	317528.62	1211573.80
17	317699.26	1211462.31	62	317478.77	1211623.65
18	317728.82	1211493.48	63	317489.49	1211552.17
19	317758.99	1211524.87	64	317305.38	1211533.94
20	317718.25	1211557.57	65	317348.72	1211527.48
21	317695.97	1211587.68	66	317375.98	1211546.18
22	317707.17	1211608.83	67	317360.84	1211561.32
23	317706.50	1211613.95	68	317358.72	1211565.57
24	317704.25	1211613.93	69	317329.57	1211594.12
25	317682.55	1211588.88	70	317362.96	1211563.44
26	317665.04	1211545.22	71	317385.46	1211540.95
27	317609.68	1211473.38	72	317473.47	1211628.96
28	317585.05	1211448.63	73	317418.93	1211683.50
29	317543.83	1211397.68	74	317392.03	1211656.59
30	317506.28	1211370.44	75	317424.07	1211624.56
31	317464.34	1211348.66	76	317330.93	1211595.48
32	317434.83	1211340.84	77	317359.78	1211566.63
33	317417.08	1211342.25	78	317417.71	1211624.56
34	317395.08	1211353.17	79	317388.85	1211653.41
35	317367.32	1211383.29	80	317421.05	1211685.62
36	317364.24	1211389.47	81	317475.59	1211631.08
37	317362.90	1211402.10	82	317486.20	1211631.08
38	317312.82	1211450.50	83	317535.24	1211582.03
39	317305.69	1211450.95	84	317551.82	1211603.13
40	317248.50	1211509.70	85	317432.38	1211696.95
41	317245.43	1211509.96	86	317436.65	1211701.23
42	317202.06	1211697.23	87	317555.83	1211607.61
43	317194.73	1211751.87	88	317581.97	1211640.09
44	317169.80	1211812.59	89	317495.80	1211728.34
45	317138.80	1211852.81	90	317449.56	1211714.15

SMA-2 DREDGE CONTROL POINTS

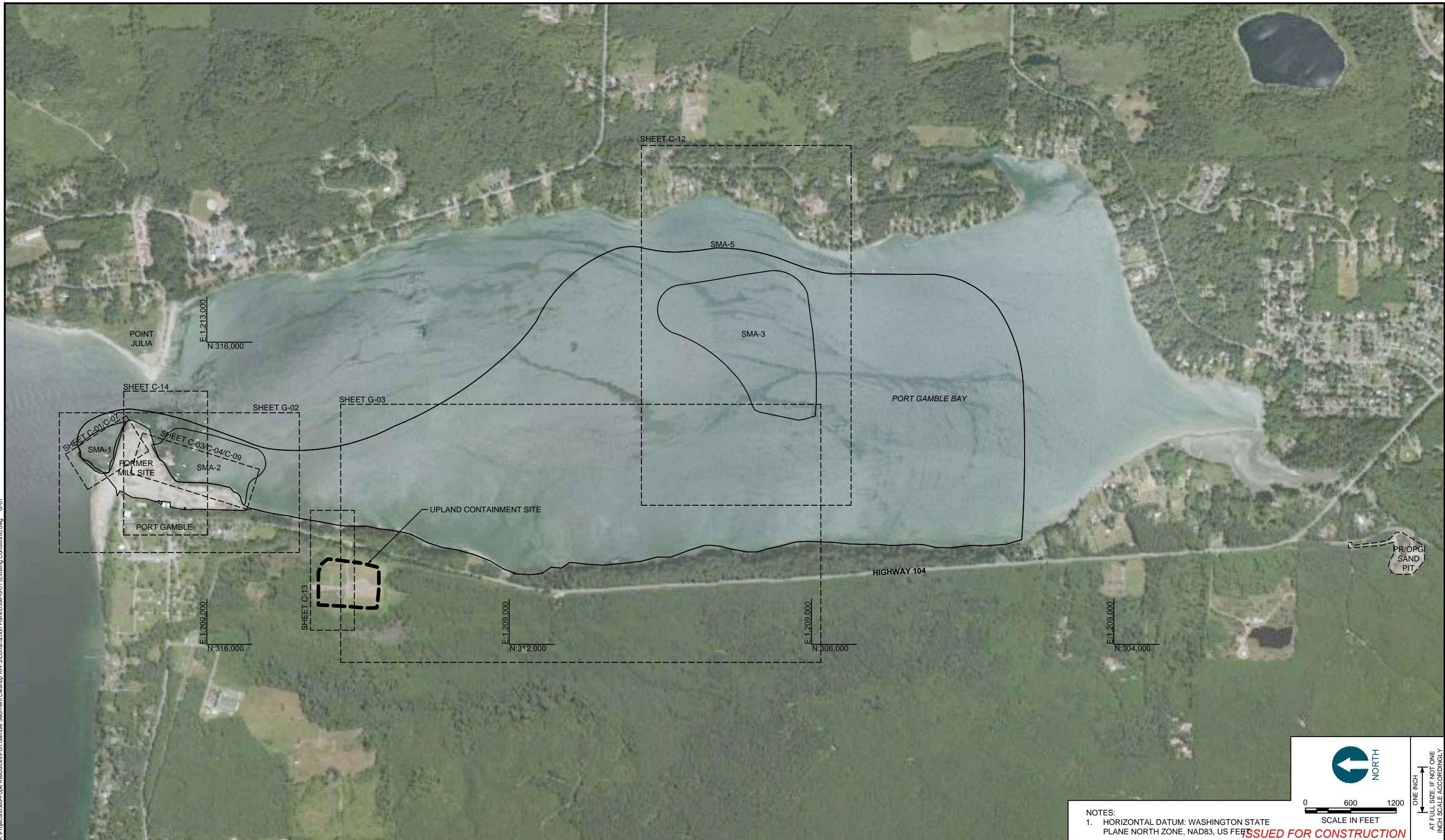
POINT #	NORTHING	EASTING	POINT #	NORTHING	EASTING	POINT #	NORTHING	EASTING
1001	316669.16	1211637.49	1055	316027.55	1211292.89	1108	316419.83	1211240.69
1002	316671.08	1211620.32	1056	316027.55	1211309.89	1109	316411.09	1211233.91
1003	316669.50	1211611.47	1057	316027.55	1211309.89	1110	316391.04	1211225.08
1004	316662.07	1211598.15	1058	316027.55	1211241.10	1111	316376.95	1211225.08
1005	316658.98	1211590.07	1059	316003.21	1211234.39	1112	316257.03	1211230.35
1006	316666.90	1211557.76	1060	316030.55	1211231.73	1113	316245.88	1211277.96
1007	316665.23	1211551.48	1061	316089.55	1211232.06	1114	316221.19	1211280.68
1008	316636.84	1211550.79	1062	316088.55	1211266.89	1115	316203.48	1211276.52
1009	316627.07	1211489.89	1063	316240.47	1211280.28	1116	316180.61	1211277.79
1010	316614.24	1211465.80	1064	316170.23	1211310.20	1117	316183.99	1211260.89
1011	316510.77	1211461.61	1065	316160.52	1211315.78	1118	316192.09	1211289.80
1012	316615.01	1211458.97	1066	316142.65	1211331.89	1119	316204.12	1211207.39
1013	316618.49	1211463.16	1067	316050.01	1211331.89	1120	316202.81	1211190.00
1014	316623.87	1211472.43	1068	316050.01	1211320.39	1121	316191.00	1211174.46
1015	316631.31	1211487.05	1069	316036.55	1211309.89	1122	316174.74	1211166.62
1016	316641.09	1211498.14	1070	316036.55	1211301.89	1123	316094.24	1211166.76
1017	316689.47	1211548.84	1071	316177.55	1211301.89	1124	316080.00	1211169.85
1018	316671.14	1211555.12	1072	316177.55	1211321.59	1125	316067.95	1211178.05
1019	316663.23	1211587.43	1073	316132.74	1211340.89	1126	316062.85	1211187.85
1020	316666.32	1211595.51	1074	316132.88	1211367.89	1127	316066.84	1211195.38
1021	316673.74	1211608.83	1075	316041.04	1211367.89	1128	316071.47	1211201.82
1022	316675.32	1211617.68	1076	316041.04	1211340.89	1129	316072.40	1211214.54
1024	316609.14	1211644.89	1077	316132.89	1211373.89	1130	316059.69	1211219.31
1025	316606.92	1211645.76	1078	316035.03	1211373.89	1131	316043.07	1211221.76
1026	316595.74	1211626.95	1079	316030.51	1211329.91	1132	316030.60	1211222.23
1027	316598.29	1211625.44	1080	316030.51	1211407.41	1133	316032.29	1211210.70
1028	316585.86	1211603.17	1081	315880.66	1211403.97	1134	315986.68	1211215.02
1029	316582.71	1211605.03	1082	315883.01	1211320.39	1135	315999.63	1211160.78
1030	316549.81	1211549.68	1083	316018.31	1211320.39	1136	315963.03	1211156.24
1031	316545.49	1211547.07	1084	315957.43	1211238.33	1137	315842.10	1211177.10
1032	316552.02	1211543.06	1085	315957.43	1211306.89	1138	315811.81	1211174.87
1033	316547.48	1211545.77	1086	315883.18	1211306.89	1139	315788.16	1211161.40
1034	316541.77	1211538.69	1087	315884.56	1211267.55	1140	315758.71	1211153.38
1035	316501.97	1211534.30	1088	315919.75	1211249.38	1141	315717.98	1211150.78
1036	316535.25	1211508.59	1089	315872.13	1211333.70	1142	315694.34	1211142.83
1037	316548.49	1211529.92	1090	315871.33	1211362.69	1143	315671.24	1211129.30
1038	316523.33	1211489.37	1091	315773.87	1211359.98	1144	315633.06	1211095.68
1039	316449.76	1211530.75	1092	315774.67	1211330.99	1145	315578.97	1211065.42
1040	316426.64	1211469.49	1093	315877.16	1211368.85	1146	315566.48	1211060.03
1041	316489.97	1211435.80	1094	315876.19	1211403.84	1147	315495.89	1211045.40
1042	316486.01	1211429.22	1095	315772.73	1211400.96	1148	315476.00	1211034.74
1043	316424.43	1211463.24	1096	315773.70	1211365.98	1149	315467.32	1211026.62
1044	316371.57	1211384.48	1097	316227.20	1211446.53	1150	315487.68	1210871.32
1045	316383.08	1211322.17	1098	316593.86	1211431.10	1151	315488.52	1210884.96
1046	316396.71	1211306.10	1099	316553.58	1211396.37	1152	315587.33	1210988.37
1047	316436.40	1211375.54	1100	316540.53	1211395.39	1153	315638.91	1211046.90
1048	316447.32	1211366.86	1101	316508.67	1211333.88	1154	315583.37	1210971.46
1049	316168.55	1211217.59	1102	316493.17	1211316.15	1155	315631.97	1211047.38
1050	316168.55	1211260.89	1103	316470.55	1211308.70	1156	315717.62	1211104.54
1051	316095.55	1211280.89	1104	316453.80	1211273.07	1157	316391.60	1211153.25
1052	316095.34	1211217.96	1105	316446.32	1211262.18	1158	316423.33	1211169.35
1053	316168.55	1211266.89	1106	316435.28	1211253.29	1159	316598.19	1211391.70
1054	316168.55	1211292.89	1107	316424.99	1211249.17			


SMA-1 CAPPING CONTROL POINTS

POINT #	NORTHING	EASTING	POINT #	NORTHING	EASTING
2001	317058.09	1211948.93	2037	317161.43	1211842.57
2002	317079.63	1211911.05	2038	317182.83	1211808.00
2003	317073.23	1211907.76	2039	317202.80	1211747.20
2004	317101.05	1211827.46	2040	317205.28	1211709.28
2005	317078.82	1211817.39	2041	317220.51	1211668.36
2006	317178.42	1211539.74	2042	317221.35	1211626.65
2007	317206.50	1211432.00	2043	317241.16	1211557.46
2008	317244.01	1211345.44	2044	317245.81	1211542.71
2009	317271.73	1211291.09	2045	317246.34	1211516.86
2010	317291.43	1211269.06	2046	317243.99	1211513.13
2011	317323.68	1211259.88	2047	317364.17	1211389.40
2012	317354.77	1211238.28	2048	317372.34	1211385.66
2013	317428.97	1211242.06	2049	317395.68	1211358.12
2014	317519.90	1211272.86	2050	317415.63	1211347.17
2015	317579.63	1211327.93	2051	317429.50	1211344.38
2016	317596.96	1211335.55	2052	317452.46	1211348.50
2017	317647.97	1211380.52	2053	317504.50	1211373.01
2018	317649.58	1211396.07	2054	317543.25	1211401.50
2019	317696.09	1211442.49	2055	317575.69	1211439.16
2020	317762.72	1211509.05	2056	317663.87	1211545.49
2021	317773.04	1211525.71	2057	317681.84	1211589.57
2022	317725.70	1211562.31	2058	317702.85	1211623.05
2023	317704.30	1211586.64	2059	317777.92	1211550.08
2024	317716.53	1211605.12	2060	317834.22	1211655.78
2025	317710.57	1211616.94	2061	317446.13	1211176.87
2026	317565.28	1211739.46	2062	317496.17	1211730.73
2027	317454.60	1211811.04	2063	317586.32	

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Aug 11, 2015 3:43pm chewett

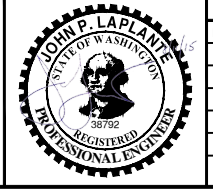


 NORTH
 0 600 1200
 SCALE IN FEET
 ONE INCH
 AT FULL SIZE, IF NOT ONE
 INCH SCALE ACCORDINGLY

NOTES:
 1. HORIZONTAL DATUM: WASHINGTON STATE PLANE NORTH ZONE, NAD83, US FEET
ISSUED FOR CONSTRUCTION



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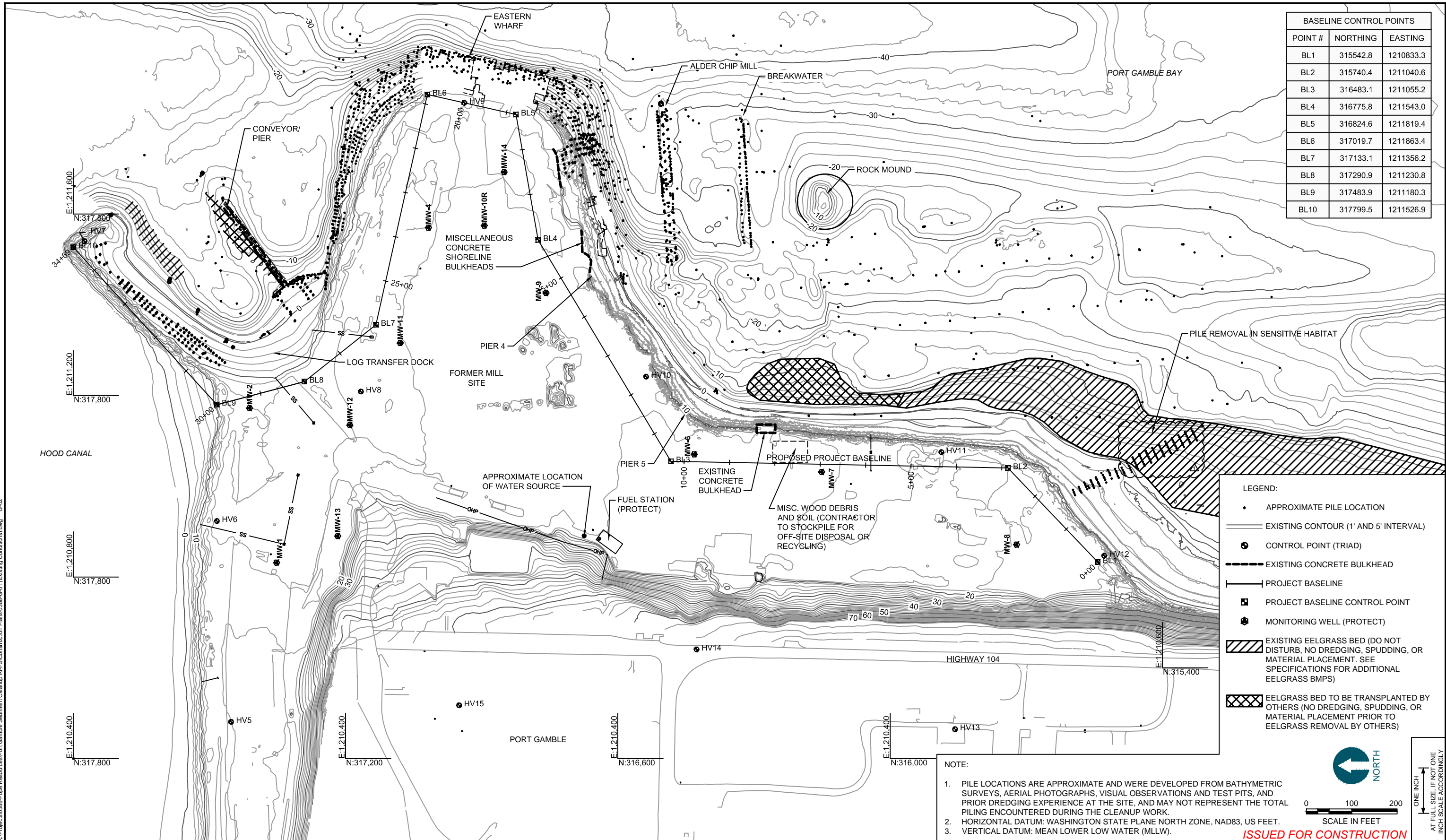
REVISIONS				
REV	DATE	BY	APPD	DESCRIPTION

DESIGNED BY: R. PICKERING
 DRAWN BY: C. HEWETT
 CHECKED BY: J. LAPLANTE
 APPROVED BY: J. LAPLANTE
 SCALE: 1" = 600'
 DATE: JULY 2015

PORT GAMBLE BAY CLEANUP
SITE LAYOUT AND SHEET INDEX

G-01
 SHEET NO. 3 OF 27

K:\Projects\0386-Pope Resources\Port Gamble Sediment Cleanup RIF Construction Plans\0386-G-01 (Existing Conditions).dwg G-02
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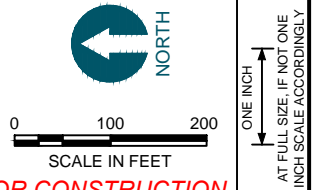


BASELINE CONTROL POINTS		
POINT #	NORTHING	EASTING
BL1	315542.8	1210833.3
BL2	315740.4	1211040.6
BL3	316483.1	1211055.2
BL4	316775.8	1211543.0
BL5	316824.6	1211819.4
BL6	317019.7	1211863.4
BL7	317133.1	1211356.2
BL8	317290.9	1211230.8
BL9	317483.9	1211180.3
BL10	317799.5	1211526.9

- LEGEND:**
- APPROXIMATE PILE LOCATION
 - EXISTING CONTOUR (1' AND 5' INTERVAL)
 - ⊕ CONTROL POINT (TRIAD)
 - EXISTING CONCRETE BULKHEAD
 - PROJECT BASELINE
 - ⊠ PROJECT BASELINE CONTROL POINT
 - ⊕ MONITORING WELL (PROTECT)
 - ▨ EXISTING EELGRASS BED (DO NOT DISTURB, NO DREDGING, SPUDDING, OR MATERIAL PLACEMENT. SEE SPECIFICATIONS FOR ADDITIONAL EELGRASS BMPS)
 - ▩ EELGRASS BED TO BE TRANSPLANTED BY OTHERS (NO DREDGING, SPUDDING, OR MATERIAL PLACEMENT PRIOR TO EELGRASS REMOVAL BY OTHERS)

NOTE:

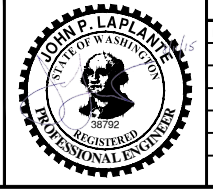
1. PILE LOCATIONS ARE APPROXIMATE AND WERE DEVELOPED FROM BATHYMETRIC SURVEYS, AERIAL PHOTOGRAPHS, VISUAL OBSERVATIONS AND TEST PITS, AND PRIOR DREDGING EXPERIENCE AT THE SITE, AND MAY NOT REPRESENT THE TOTAL PILING ENCOUNTERED DURING THE CLEANUP WORK.
2. HORIZONTAL DATUM: WASHINGTON STATE PLANE NORTH ZONE, NAD83, US FEET.
3. VERTICAL DATUM: MEAN LOWER LOW WATER (MLLW).



ISSUED FOR CONSTRUCTION



POPE RESOURCES LP / OPG PROPERTIES LLC



REVISIONS				
REV	DATE	BY	APPD	DESCRIPTION

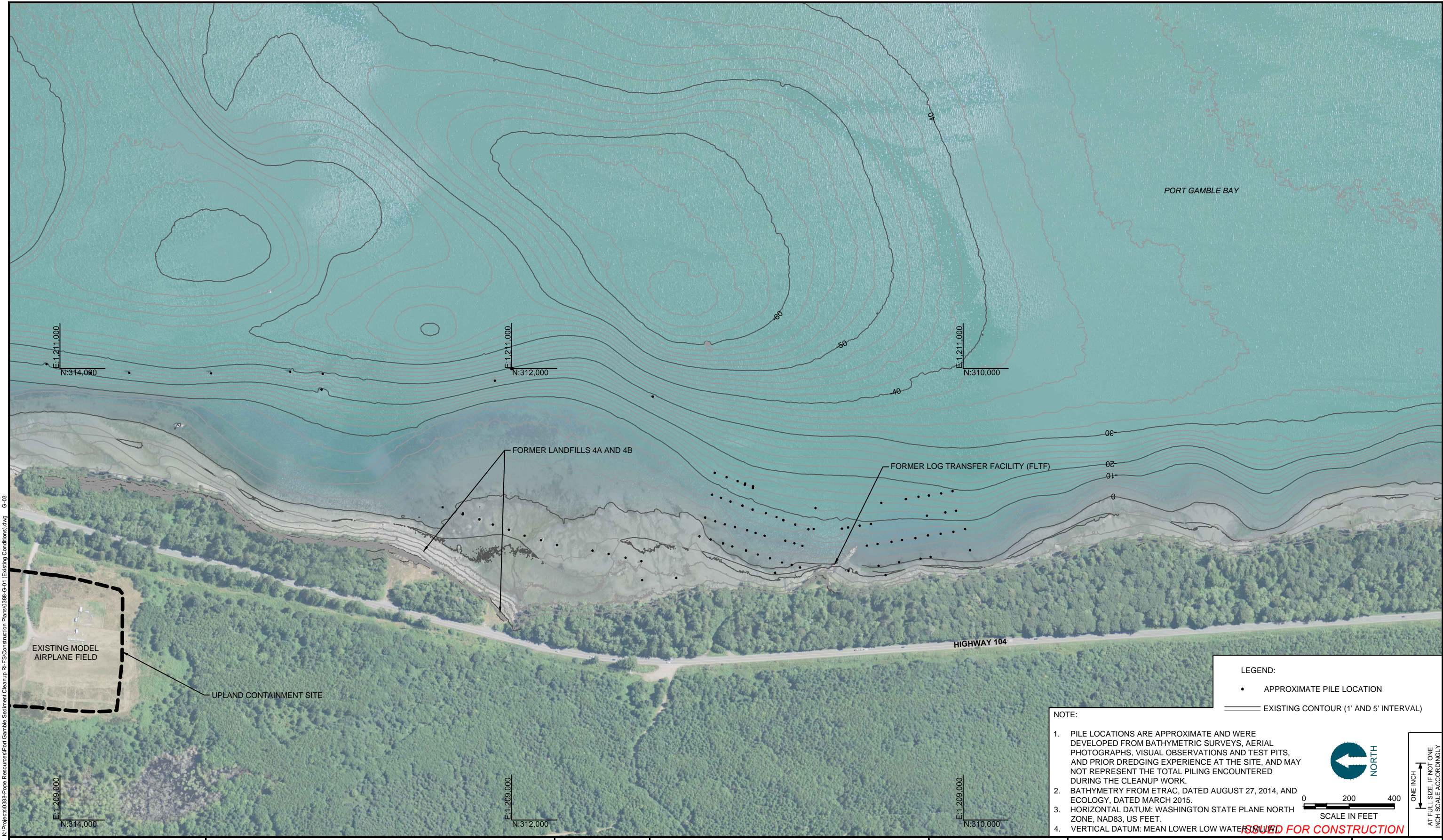
DESIGNED BY: R. PICKERING
 DRAWN BY: C. HEWETT
 CHECKED BY: J. LAPLANTE
 APPROVED BY: J. LAPLANTE
 SCALE: 1" = 100'
 DATE: JULY 2015

PORT GAMBLE BAY CLEANUP
EXISTING CONDITIONS (1 OF 2)

G-02
 SHEET NO. 4 OF 27

K:\Projects\0388-Pope Resources\Port Gamble Sediment Cleanup RIF\Construction Plans\0388-G-01 (Existing Conditions).dwg G-03

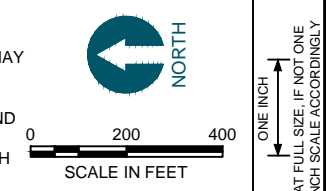
Aug 11, 2015 3:43pm chewett



LEGEND:
 • APPROXIMATE PILE LOCATION
 — EXISTING CONTOUR (1' AND 5' INTERVAL)

NOTE:

1. PILE LOCATIONS ARE APPROXIMATE AND WERE DEVELOPED FROM BATHYMETRIC SURVEYS, AERIAL PHOTOGRAPHS, VISUAL OBSERVATIONS AND TEST PITS, AND PRIOR DREDGING EXPERIENCE AT THE SITE, AND MAY NOT REPRESENT THE TOTAL PILING ENCOUNTERED DURING THE CLEANUP WORK.
2. BATHYMETRY FROM ETRAC, DATED AUGUST 27, 2014, AND ECOLOGY, DATED MARCH 2015.
3. HORIZONTAL DATUM: WASHINGTON STATE PLANE NORTH ZONE, NAD83, US FEET.
4. VERTICAL DATUM: MEAN LOWER LOW WATER



ISSUED FOR CONSTRUCTION



POPE RESOURCES LP / OPG PROPERTIES LLC



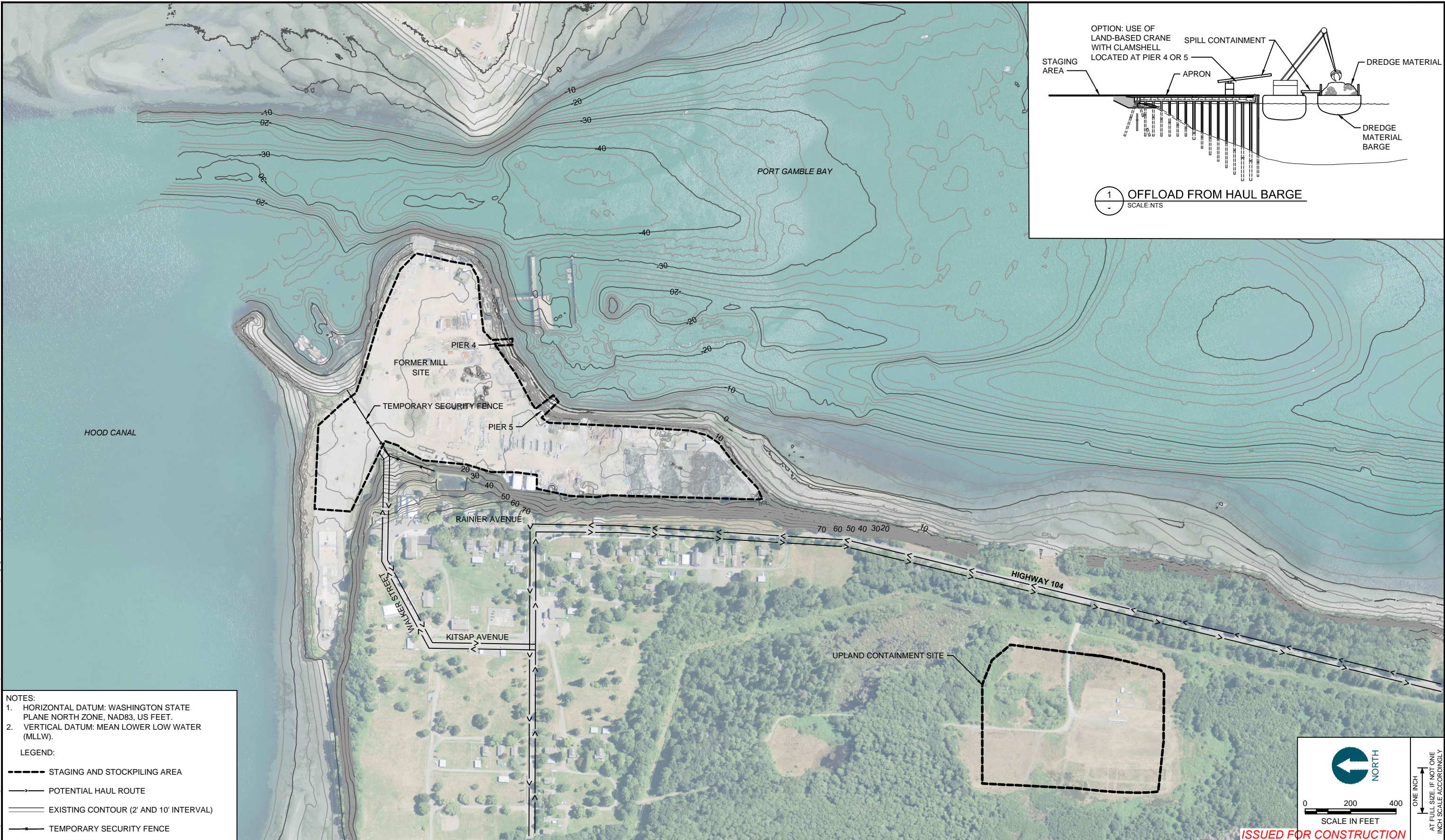
REVISIONS				
REV	DATE	BY	APPD	DESCRIPTION

DESIGNED BY: R. PICKERING
 DRAWN BY: C. HEWETT
 CHECKED BY: J. LAPLANTE
 APPROVED BY: J. LAPLANTE
 SCALE: 1" = 200'
 DATE: JULY 2015

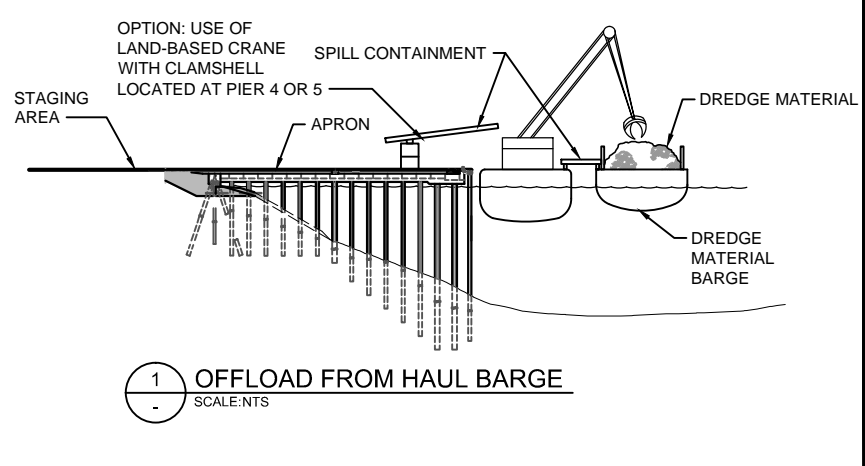
PORT GAMBLE BAY CLEANUP
EXISTING CONDITIONS (2 OF 2)

G-03
 SHEET NO. 5 OF 27

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 Aug 11, 2015 3:44pm chewett



- NOTES:**
1. HORIZONTAL DATUM: WASHINGTON STATE PLANE NORTH ZONE, NAD83, US FEET.
 2. VERTICAL DATUM: MEAN LOWER LOW WATER (MLLW).
- LEGEND:**
- STAGING AND STOCKPILING AREA
 - POTENTIAL HAUL ROUTE
 - EXISTING CONTOUR (2' AND 10' INTERVAL)
 - TEMPORARY SECURITY FENCE



NORTH

0 200 400
SCALE IN FEET

ONE INCH
AT FULL SIZE, IF NOT ONE
INCH SCALE ACCORDINGLY

ISSUED FOR CONSTRUCTION



POPE RESOURCES LP / OPG PROPERTIES LLC



REVISIONS				
REV	DATE	BY	APPD	DESCRIPTION

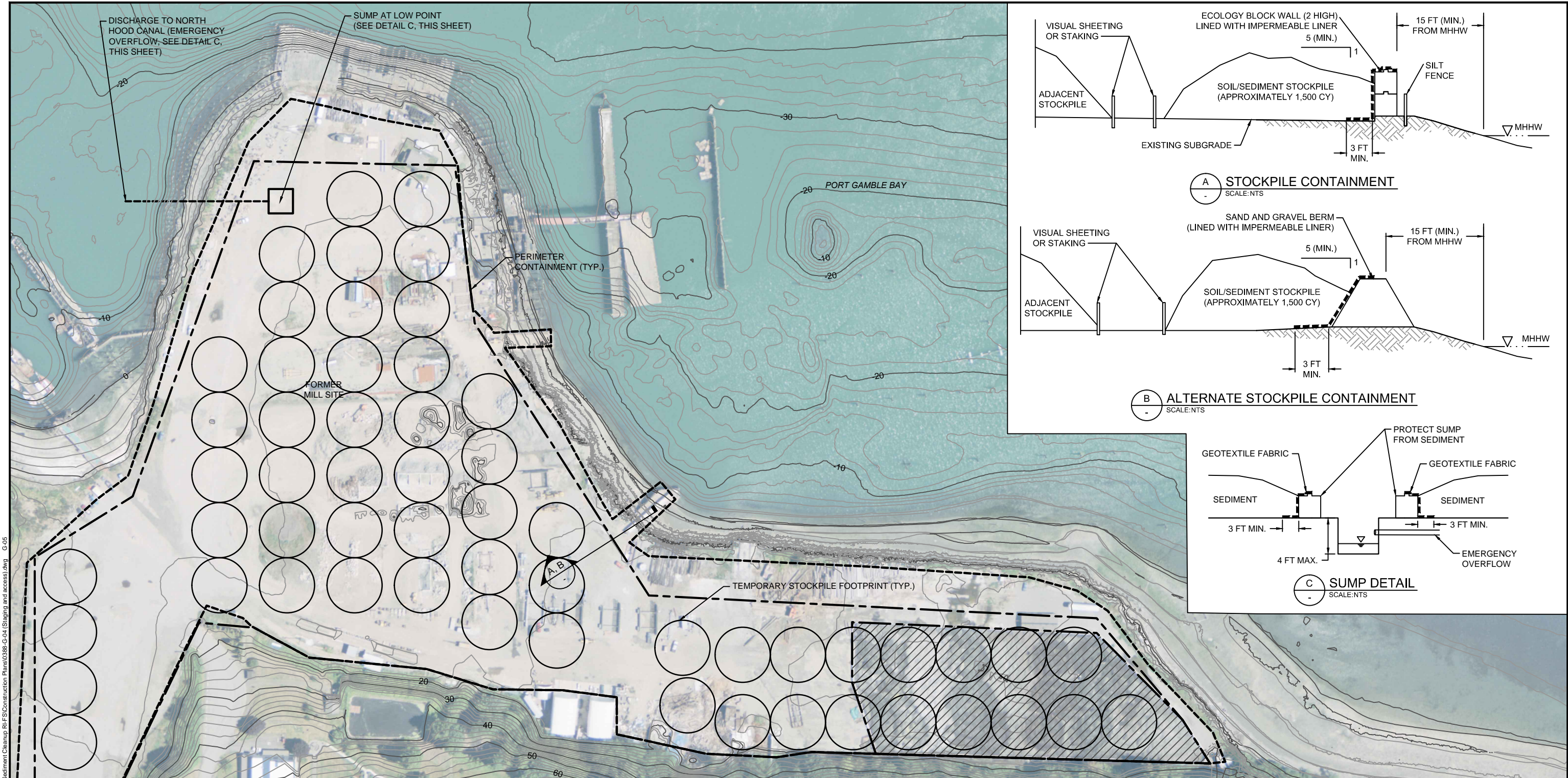
DESIGNED BY: R. PICKERING
 DRAWN BY: C. HEWETT
 CHECKED BY: J. LAPLANTE
 APPROVED BY: J. LAPLANTE
 SCALE: 1" = 200'
 DATE: JULY 2015

PORT GAMBLE BAY CLEANUP

SITE STAGING AND ACCESS

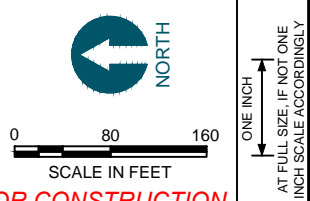
G-04

SHEET NO. 6 OF 27

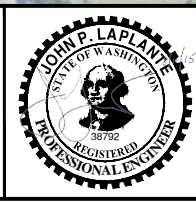


- LEGEND:**
- STAGING AND STOCKPILING AREA
 - 2007 INTERIM ACTION STOCKPILE AREA
 - PERIMETER CONTAINMENT (TYP, SEE NOTE 1)
 - SEDIMENT STOCKPILE BOUNDARY (TYP)
 - EXISTING CONTOUR (2' AND 10' INTERVAL)

- NOTES:**
1. LOCATION OF STOCKPILE IS SHOWN FOR ILLUSTRATIVE PURPOSES ONLY. CONTRACTOR WILL SELECT STOCKPILE LOCATION AND SIZE TO BE COMPATIBLE WITH THEIR STAGING AND SEQUENCING NEEDS.
 2. SEE ADDITIONAL TESC DETAILS ON DRAWING C-15.
 3. HORIZONTAL DATUM: WASHINGTON STATE PLANE NORTH ZONE, NAD83, US FEET.
 4. VERTICAL DATUM: MEAN LOWER LOW WATER (MLLW).



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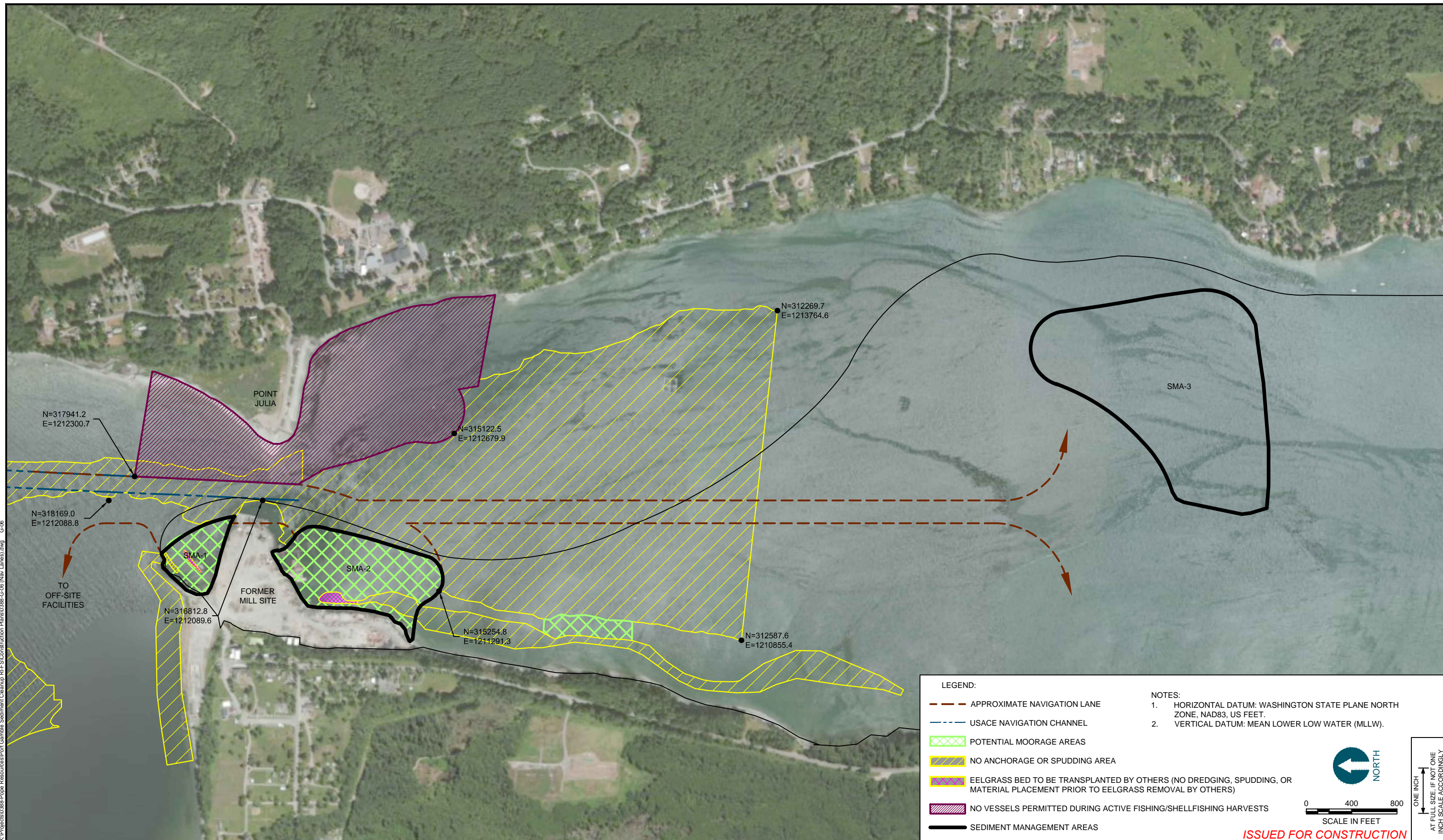
REVISIONS				
REV	DATE	BY	APPD	DESCRIPTION

DESIGNED BY: R. PICKERING
 DRAWN BY: C. HEWETT
 CHECKED BY: J. LAPLANTE
 APPROVED BY: J. LAPLANTE
 SCALE: 1" = 80'
 DATE: JULY 2015

PORT GAMBLE BAY CLEANUP
STAGING AND STOCKPILING

G-05
 SHEET NO. 7 OF 27

K:\Projects\0386-Pope Resources\Port Gamble Sediment Cleanup RIF\Construction Plans\0386-G-06 (Nav. Lanes).dwg G-06
 Aug 11, 2015 3:44pm chewett



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DESIGNED BY: R. PICKERING
 DRAWN BY: C. HEWETT
 CHECKED BY: J. LAPLANTE
 APPROVED BY: J. LAPLANTE
 SCALE: 1" = 400'
 DATE: JULY 2015

PORT GAMBLE BAY CLEANUP

VESSEL NAVIGATION LANES

G-06

SHEET NO. 8 OF 27



PHOTO 1: LOG TRANSFER DOCK



PHOTO 2: EASTERN WHARF



PHOTO 3: CONVEYOR/PIER (FROM BING MAPS IMAGERY)



PHOTO 4: ALDER CHIP MILL

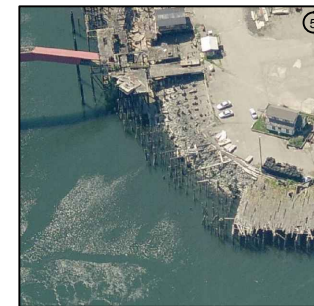


PHOTO 5: SHORELINE BETWEEN WHARF AND ALDER CHIP MILL



PHOTO 6: PIER 4

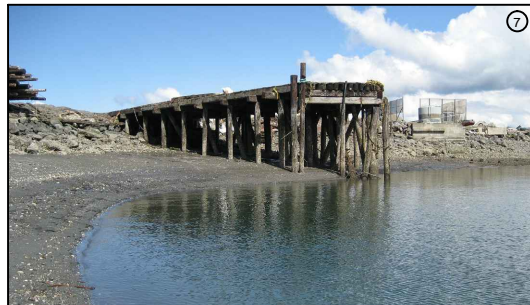


PHOTO 7: PIER 5 AND SHORELINE BULKHEADS

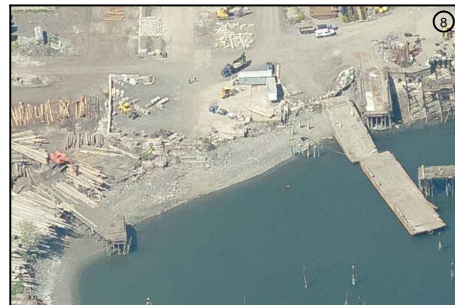


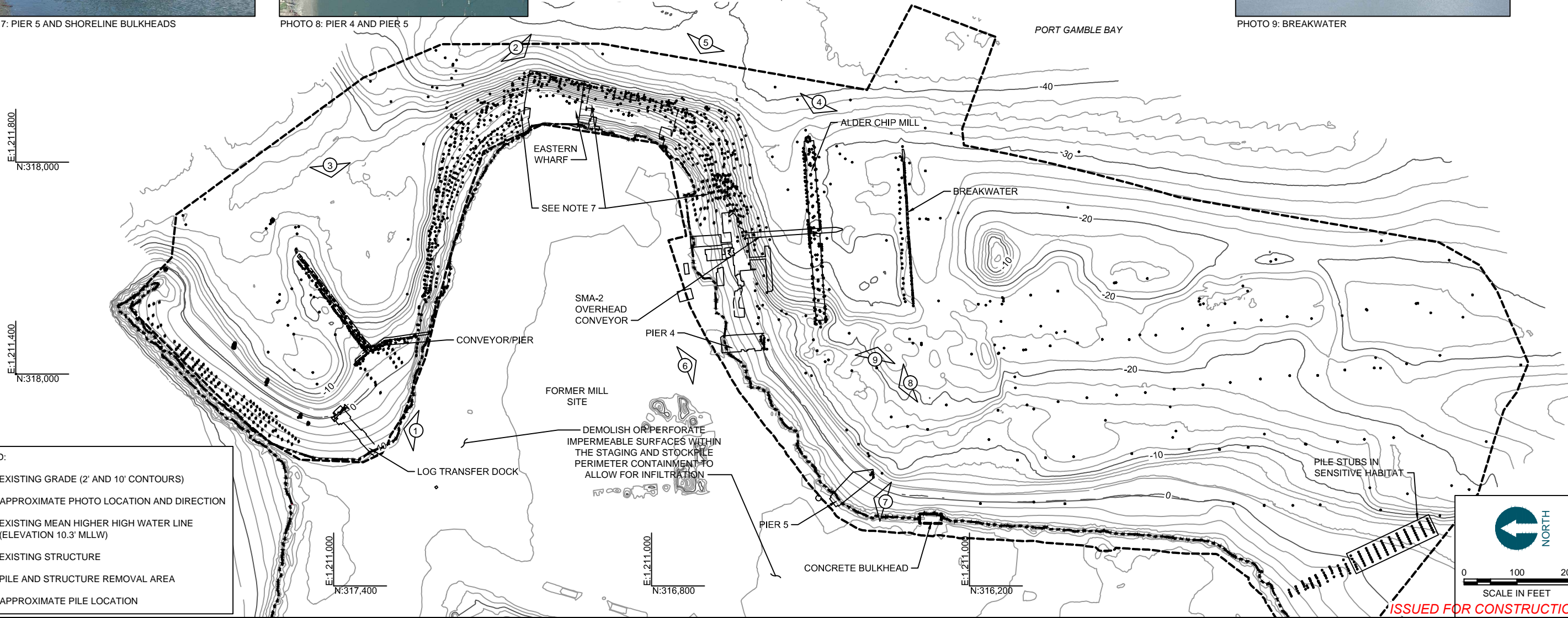
PHOTO 8: PIER 4 AND PIER 5

NOTES:

1. DEMOLISH AND DISPOSE ALL CREOSOTE DECKING, TIMBER STRUCTURES AND BULKHEADS. CONCRETE AND METAL MATERIAL MAY BE SALVAGED AND REUSED PER THE SPECIFICATIONS.
2. EXTRACT ALL CREOSOTE PILING PER THE SPECIFICATIONS OR AS APPROVED BY ECOLOGY.
3. PILE LOCATIONS ARE APPROXIMATE AND WERE DEVELOPED FROM BATHYMETRIC SURVEYS, AERIAL PHOTOGRAPHS, VISUAL OBSERVATIONS AND TEST PITS, AND PRIOR DREDGING EXPERIENCE AT THE SITE, AND MAY NOT REPRESENT THE TOTAL PILING ENCOUNTERED DURING THE CLEANUP WORK.
4. CONTAIN ALL DEBRIS DURING DEMOLITION WITH A FLOATING BOOM.
5. DO NOT CUT PILES WHILE ON THE WATER. PILES THAT NEED TO BE RE-SIZED AFTER PULLING SHALL ONLY BE CUT ON THE UPLAND PROPERTY.
6. DEMOLISH OR PERFORATE IMPERMEABLE SURFACES WITHIN THE STAGING AND STOCKPILE PERIMETER CONTAINMENT TO ALLOW FOR INFILTRATION OF INTERSTITIAL WATER FROM SEDIMENTS AND RAINFALL.
7. REMOVE SURFICIAL CONCRETE AND ASPHALT DEBRIS FROM INTERTIDAL AREAS DURING PILE DEMOLITION.
8. HORIZONTAL DATUM: WASHINGTON STATE PLANE NORTH ZONE, NAD83, US FEET.
9. VERTICAL DATUM: MEAN LOWER LOW WATER (MLLW).



PHOTO 9: BREAKWATER



LEGEND:

- EXISTING GRADE (2' AND 10' CONTOURS)
- APPROXIMATE PHOTO LOCATION AND DIRECTION
- EXISTING MEAN HIGHER HIGH WATER LINE (ELEVATION 10.3' MLLW)
- EXISTING STRUCTURE
- PILE AND STRUCTURE REMOVAL AREA
- APPROXIMATE PILE LOCATION

NORTH

0 100 200
SCALE IN FEET

ONE INCH
AT FULL SIZE, IF NOT ONE
INCH SCALE ACCORDINGLY

ISSUED FOR CONSTRUCTION

K:\Projects\0388-Pope Resources\Port Gamble Sediment Cleanup\RFES\Construction Plans\0388-D-01 (Demolition Plan).dwg D-01
Aug 11, 2015 4:13pm chewart



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REV	DATE	BY	APP'D	DESCRIPTION

DESIGNED BY: R. PICKERING
 DRAWN BY: C. HEWETT
 CHECKED BY: J. LAPLANTE
 APPROVED BY: J. LAPLANTE
 SCALE: 1" = 100'
 DATE: JULY 2015

PORT GAMBLE BAY CLEANUP

**DEMOLITION PLAN (1 OF 2)
STRUCTURES AND PILING**

D-01

SHEET NO. **9** OF **27**

K:\Projects\0388-Pope Resources\Port Gamble Sediment Cleanup RIF\Construction Plans\0388-D-02 (Demo - Log Loading Dock).dwg D-02
Aug 11, 2015 3:45pm chewett

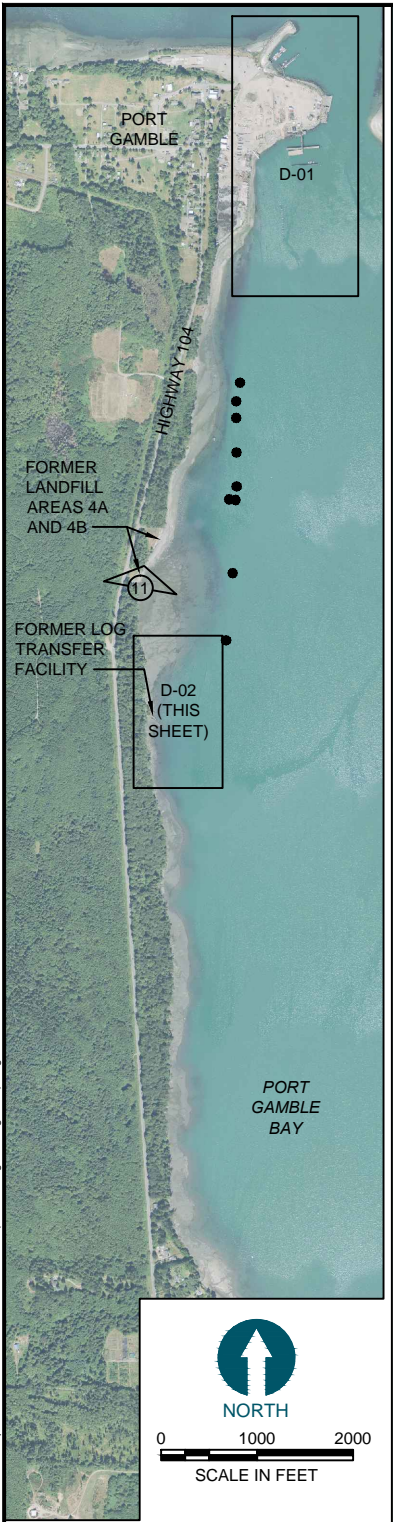
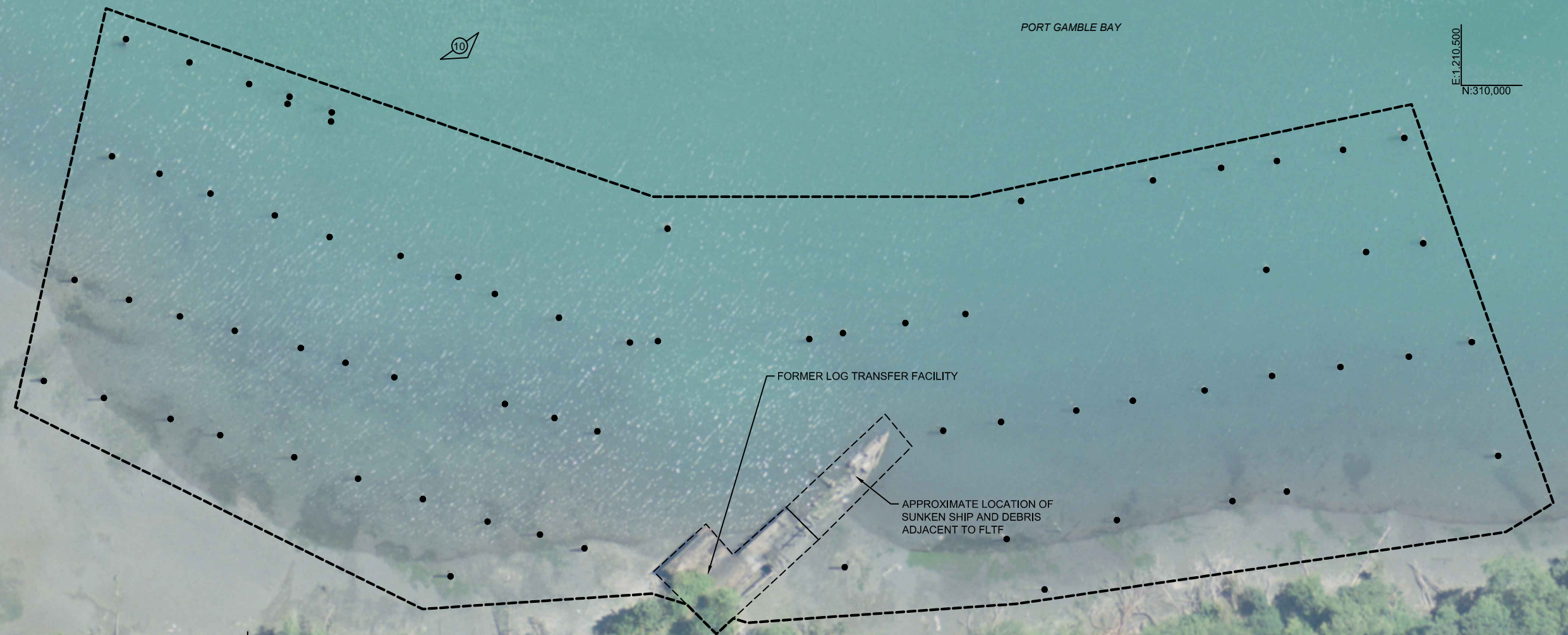


PHOTO 10: FORMER LOG TRANSFER FACILITY (FROM BING MAPS IMAGERY)



PHOTO 11: LANDFILL 4A AND 4B SURFICIAL BEACH DEBRIS

CREOSOTE PILES AND BULKHEAD
STRUCTURAL AND MISCELLANEOUS BEACH DEBRIS



- NOTES:
1. DEMOLISH AND DISPOSE ALL CREOSOTE DECKING, TIMBER STRUCTURES AND BULKHEADS. CONCRETE AND METAL MATERIAL MAY BE SALVAGED AND REUSED PER THE SPECIFICATIONS.
 2. EXTRACT ALL CREOSOTE PILING PER THE SPECIFICATIONS OR AS APPROVED BY ECOLOGY.
 3. PILE LOCATIONS ARE APPROXIMATE AND WERE DEVELOPED FROM BATHYMETRIC SURVEYS, AERIAL PHOTOGRAPHS, VISUAL OBSERVATIONS AND TEST PITS, AND PRIOR DREDGING EXPERIENCE AT THE SITE, AND MAY NOT REPRESENT THE TOTAL PILING ENCOUNTERED DURING THE CLEANUP WORK. CONTAIN ALL DEBRIS DURING DEMOLITION WITH A FLOATING BOOM.
 4. DO NOT CUT PILES WHILE ON THE WATER. PILES THAT NEED TO BE RE-SIZED AFTER PULLING SHALL ONLY BE CUT ON THE UPLAND PROPERTY.
 5. REMOVE AND DISPOSE SUNKEN SHIP AND RELATED DEBRIS ADJACENT TO THE FORMER LOG TRANSFER FACILITY.
 6. REMOVE AND DISPOSE ALL SURFICIAL BEACH DEBRIS, CREOSOTE TIMBER, AND PILING WITHIN FORMER LANDFILL 4A AND 4B BEACH AREAS.
 7. HORIZONTAL DATUM: WASHINGTON STATE PLANE NORTH ZONE, NAD83, US FEET.
 - 8.

LEGEND:

- PILE AND STRUCTURE REMOVAL AREA
- APPROXIMATE PILE LOCATION

0 50 100
SCALE IN FEET

ONE INCH
AT FULL SIZE, IF NOT ONE
INCH SCALE ACCORDINGLY

ISSUED FOR CONSTRUCTION



POPE RESOURCES LP / OPG PROPERTIES LLC



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REV	DATE	BY	APPD	DESCRIPTION

DESIGNED BY: R. PICKERING
DRAWN BY: C. HEWETT
CHECKED BY: J. LAPLANTE
APPROVED BY: J. LAPLANTE
SCALE: 1" = 50'
DATE: JULY 2015

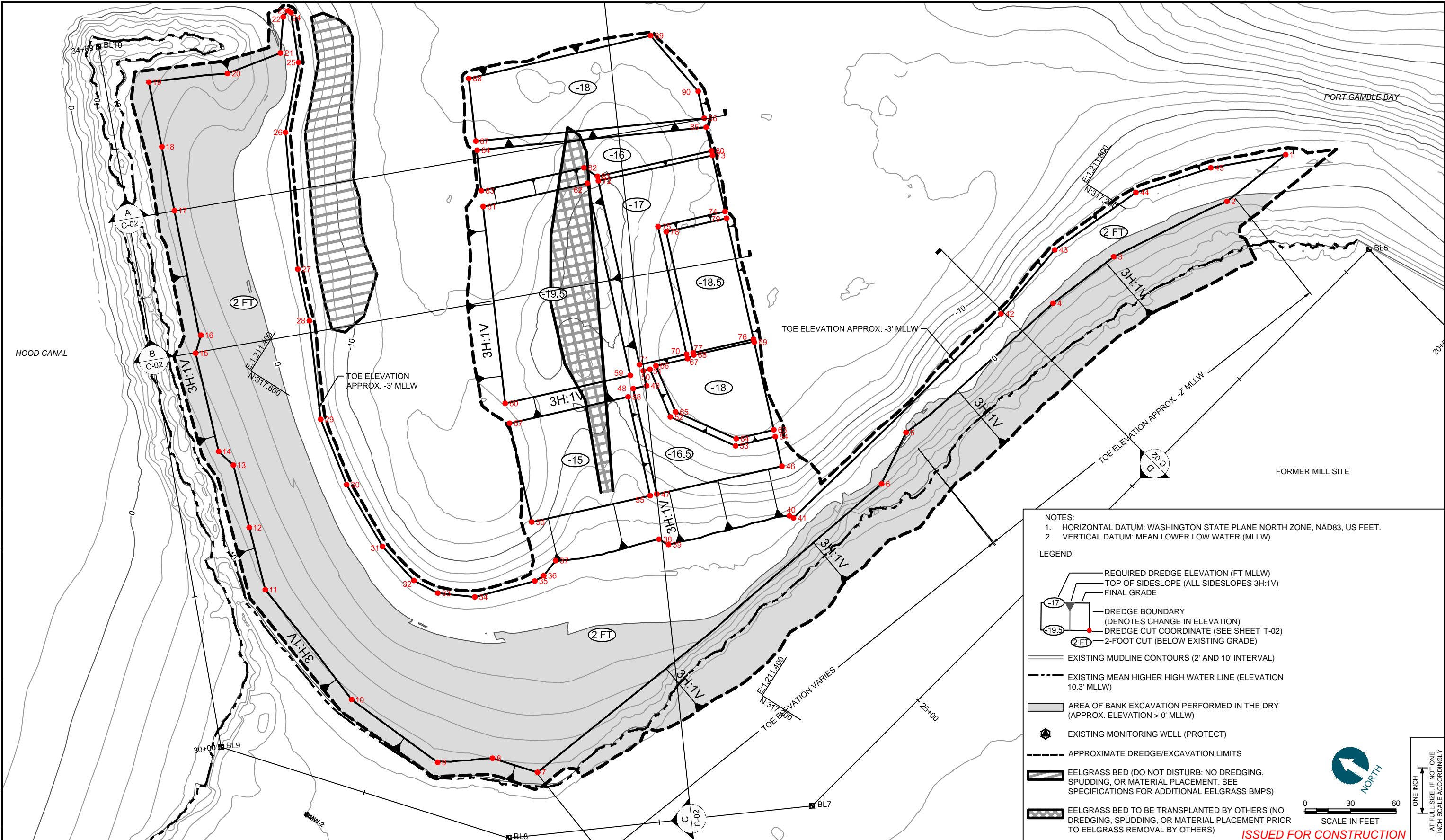
PORT GAMBLE BAY CLEANUP

DEMOLITION PLAN (2 OF 2)
STRUCTURES AND PILING

D-02

SHEET NO. 10 OF 27

K:\Projects\0386-Pope Resources\Port Gamble Sediment Cleanup RIF\Construction Plans\0386-C-01 (SMA-1) Dredge Plan and XS.dwg C-01
 Aug 11, 2015 3:46pm chewett



NOTES:
 1. HORIZONTAL DATUM: WASHINGTON STATE PLANE NORTH ZONE, NAD83, US FEET.
 2. VERTICAL DATUM: MEAN LOWER LOW WATER (MLLW).

- LEGEND:
- REQUIRED DREDGE ELEVATION (FT MLLW)
 - TOP OF SIDESLOPE (ALL SIDESLOPES 3H:1V)
 - FINAL GRADE
 - DREDGE BOUNDARY (DENOTES CHANGE IN ELEVATION)
 - DREDGE CUT COORDINATE (SEE SHEET T-02)
 - 2-FOOT CUT (BELOW EXISTING GRADE)
 - EXISTING MUDLINE CONTOURS (2' AND 10' INTERVAL)
 - EXISTING MEAN HIGHER HIGH WATER LINE (ELEVATION 10.3' MLLW)
 - AREA OF BANK EXCAVATION PERFORMED IN THE DRY (APPROX. ELEVATION > 0' MLLW)
 - EXISTING MONITORING WELL (PROTECT)
 - APPROXIMATE DREDGE/EXCAVATION LIMITS
 - EELGRASS BED (DO NOT DISTURB: NO DREDGING, SPUDDING, OR MATERIAL PLACEMENT. SEE SPECIFICATIONS FOR ADDITIONAL EELGRASS BMPS)
 - EELGRASS BED TO BE TRANSPLANTED BY OTHERS (NO DREDGING, SPUDDING, OR MATERIAL PLACEMENT PRIOR TO EELGRASS REMOVAL BY OTHERS)

ISSUED FOR CONSTRUCTION



POPE RESOURCES LP / OPG PROPERTIES LLC



REV	DATE	BY	APPD	DESCRIPTION

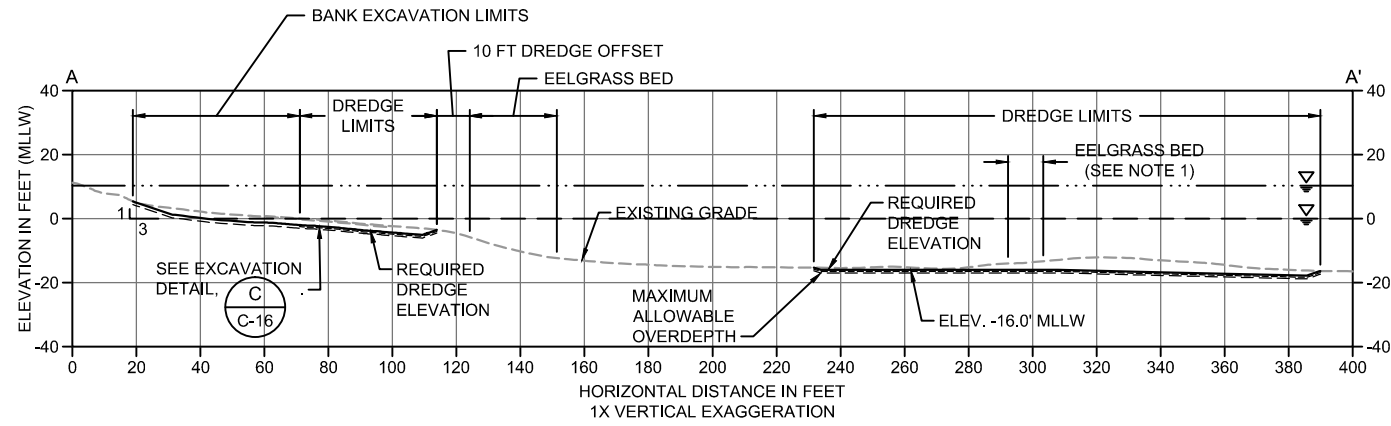
DESIGNED BY: R. PICKERING
 DRAWN BY: C. HEWETT
 CHECKED BY: J. LAPLANTE
 APPROVED BY: J. LAPLANTE
 SCALE: 1" = 30'
 DATE: JULY 2015

PORT GAMBLE BAY CLEANUP

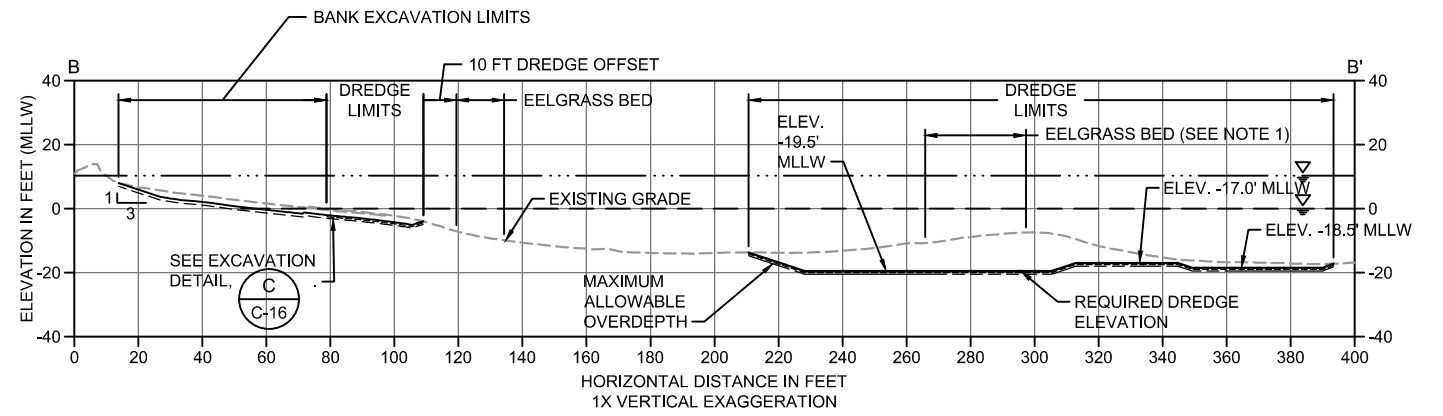
DREDGE/EXCAVATION PLAN (SMA-1)

C-01

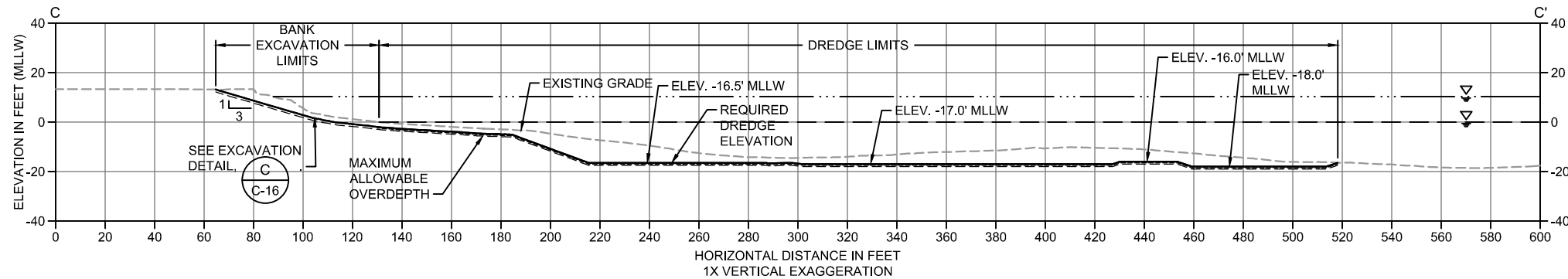
SHEET NO. 11 OF 27



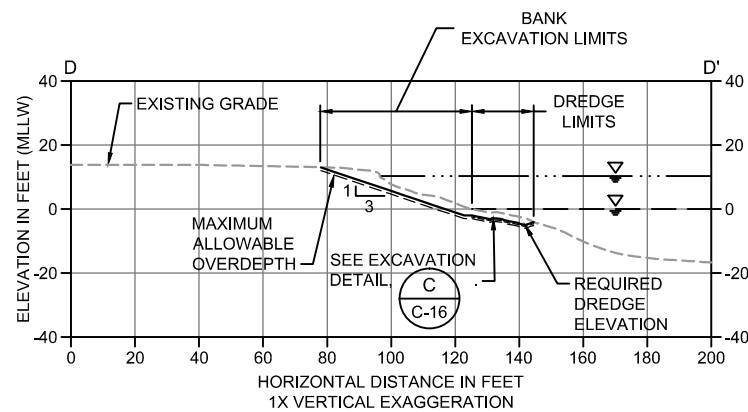
A DREDGE/EXCAVATION SECTION
C-01 SCALE: 1" = 30'



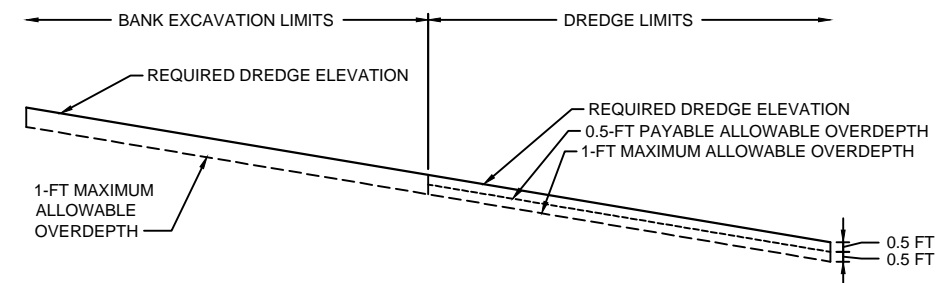
B DREDGE/EXCAVATION SECTION
C-01 SCALE: 1" = 30'



C DREDGE/EXCAVATION SECTION
C-01 SCALE: 1" = 30'

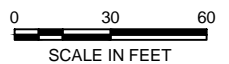


D DREDGE/EXCAVATION SECTION
C-01 SCALE: 1" = 30'



1 PAYABLE AND MAXIMUM ALLOWABLE OVERDEPTH DETAIL
SCALE: NTS

- LEGEND:**
- EXISTING GRADE
 - REQUIRED DREDGE ELEVATION
 - 0.5-FT PAYABLE ALLOWABLE OVERDEPTH LINE
 - 1-FT MAXIMUM ALLOWABLE OVERDEPTH LINE
 - MEAN HIGHER HIGH WATER LINE (ELEVATION 10.3' MLLW)
 - MEAN LOWER LOW WATER LINE (ELEVATION 0.0' MLLW)



ISSUED FOR CONSTRUCTION

ONE INCH
AT FULL SIZE, IF NOT ONE
INCH SCALE ACCORDINGLY

K:\Projects\0386-Pope Resources\Port Gamble Sediment Cleanup RIF\Construction Plans\0386-C-01 (SMA) Dredge Plan and XS.dwg C-02 Aug 11, 2015 3:46pm chewett



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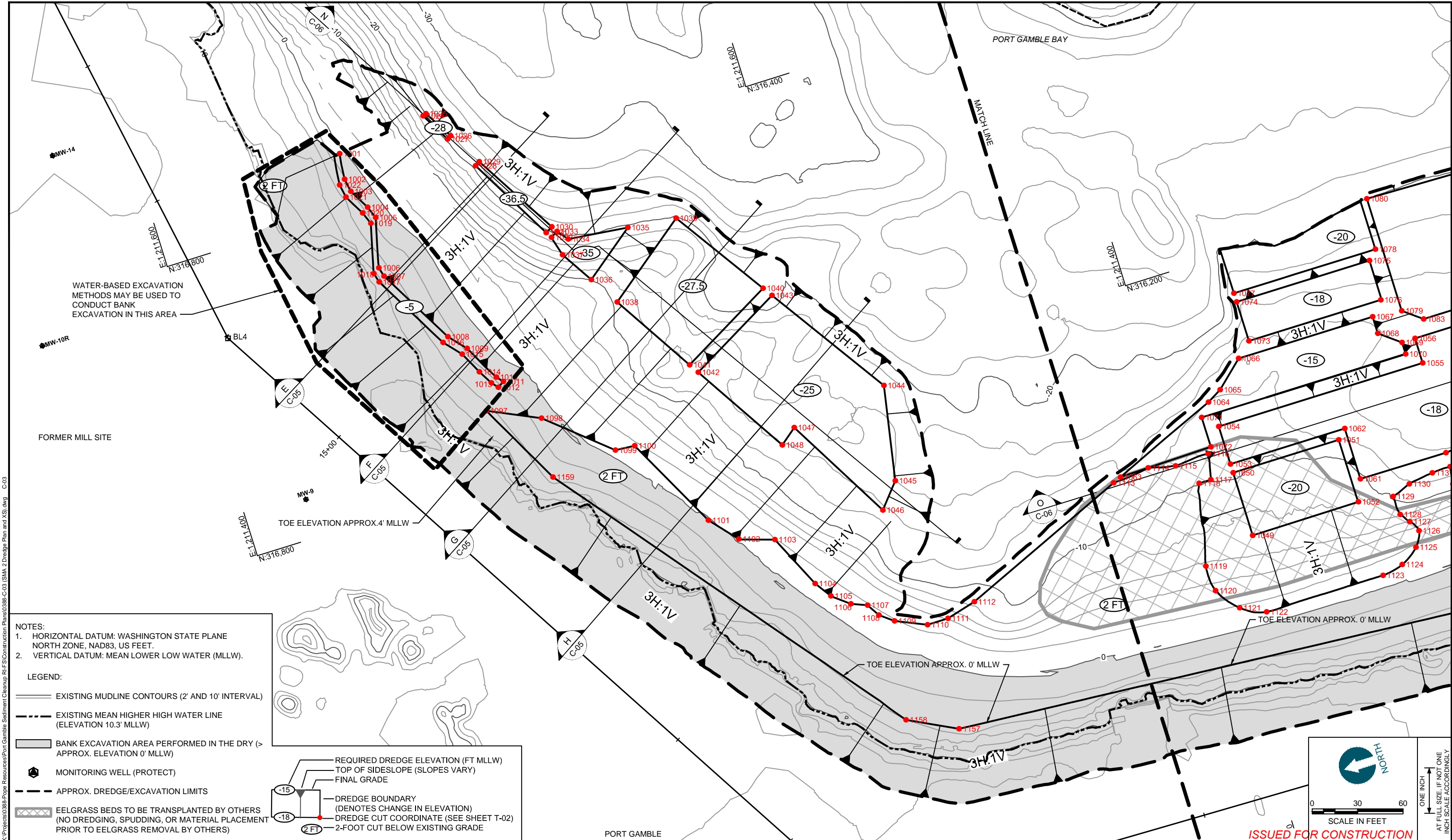
DESIGNED BY: R. PICKERING
 DRAWN BY: C. HEWETT
 CHECKED BY: J. LAPLANTE
 APPROVED BY: J. LAPLANTE
 SCALE: 1" = 30'
 DATE: JULY 2015

PORT GAMBLE BAY CLEANUP

DREDGE/EXCAVATION CROSS SECTIONS (SMA-1)

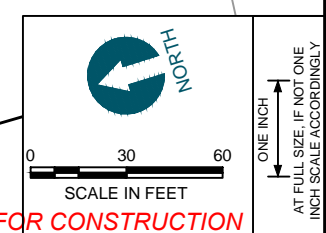
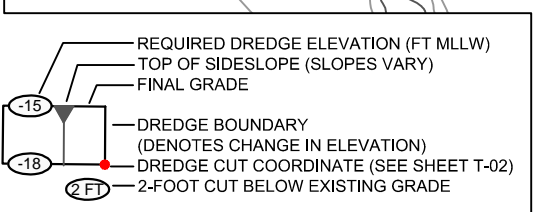
C-02

SHEET NO. 12 OF 27

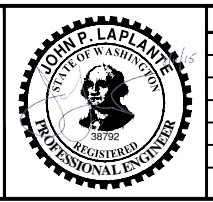


NOTES:
 1. HORIZONTAL DATUM: WASHINGTON STATE PLANE NORTH ZONE, NAD83, US FEET.
 2. VERTICAL DATUM: MEAN LOWER LOW WATER (MLLW).

LEGEND:
 ——— EXISTING MUDLINE CONTOURS (2' AND 10' INTERVAL)
 - - - EXISTING MEAN HIGHER HIGH WATER LINE (ELEVATION 10.3' MLLW)
 [Shaded Area] BANK EXCAVATION AREA PERFORMED IN THE DRY (> APPROX. ELEVATION 0' MLLW)
 [Symbol] MONITORING WELL (PROTECT)
 - - - APPROX. DREDGE/EXCAVATION LIMITS
 [Cross-hatched Area] EELGRASS BEDS TO BE TRANSPLANTED BY OTHERS (NO DREDGING, SPUDGING, OR MATERIAL PLACEMENT PRIOR TO EELGRASS REMOVAL BY OTHERS)



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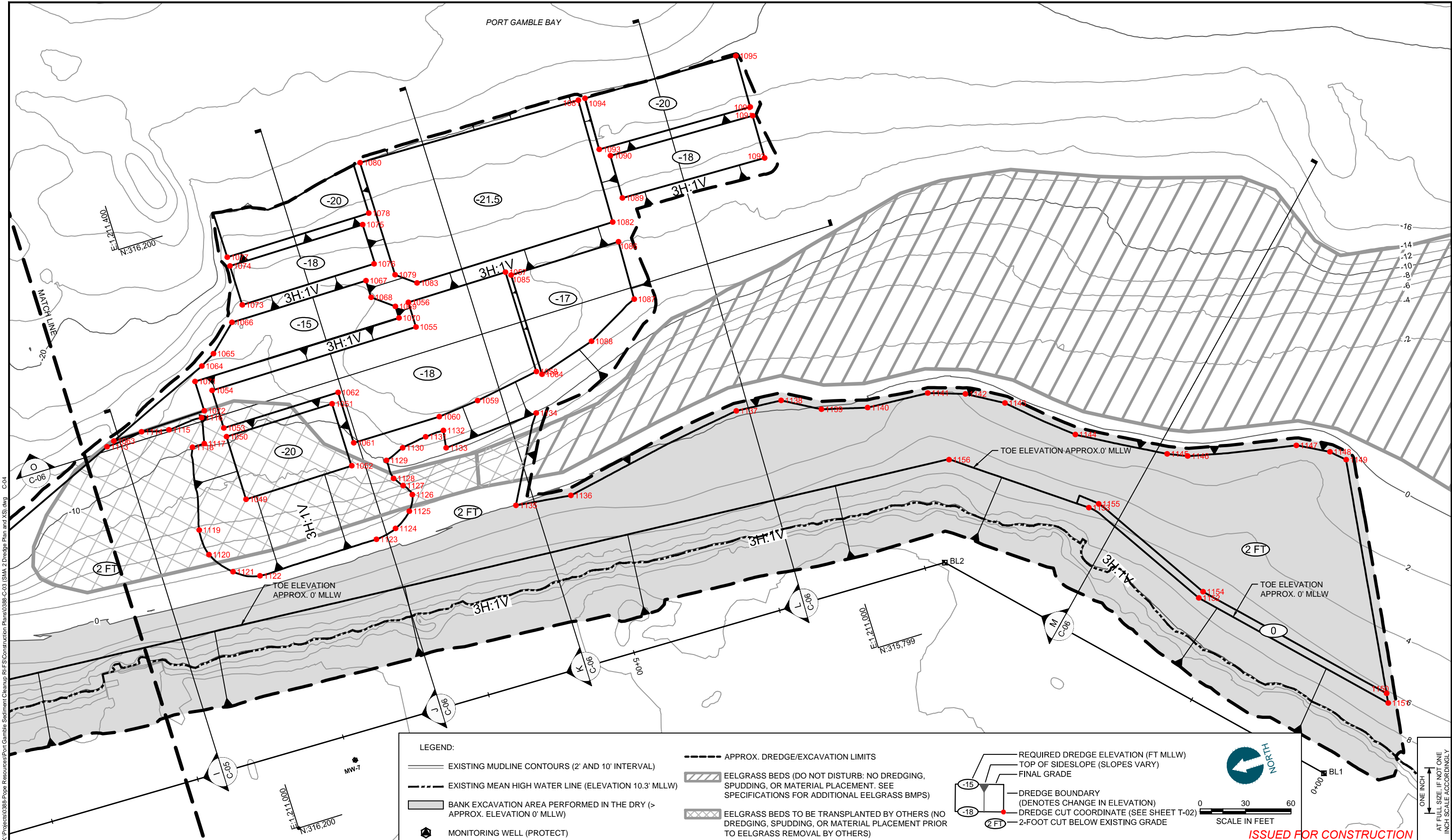
DESIGNED BY: R. PICKERING
 DRAWN BY: C. HEWETT
 CHECKED BY: J. LAPLANTE
 APPROVED BY: J. LAPLANTE
 SCALE: 1" = 30'
 DATE: JULY 2015

PORT GAMBLE BAY CLEANUP
 DREDGE/EXCAVATION PLAN 1 OF 2 (SMA-2)

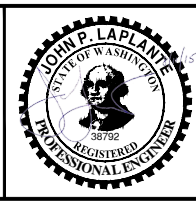
C-03
 SHEET NO. 13 OF 27

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DESIGNED BY: R. PICKERING
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 CHECKED BY: J. LAPLANTE
 APPROVED BY: J. LAPLANTE
 SCALE: 1" = 30'
 DATE: JULY 2015

PORT GAMBLE BAY CLEANUP

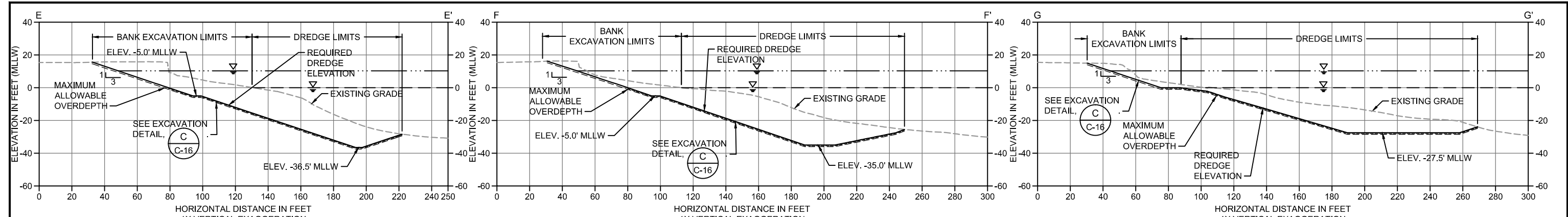
DREDGE/EXCAVATION PLAN 2 OF 2 (SMA-2)

C-04

SHEET NO. 14 OF 27

Aug 11, 2015 3:46pm chewett
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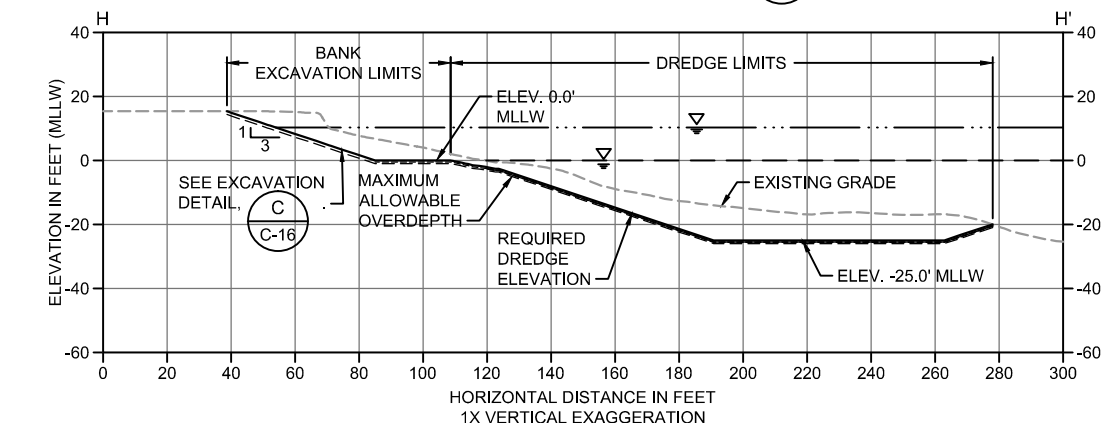
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Aug 11, 2015 3:46pm chewett



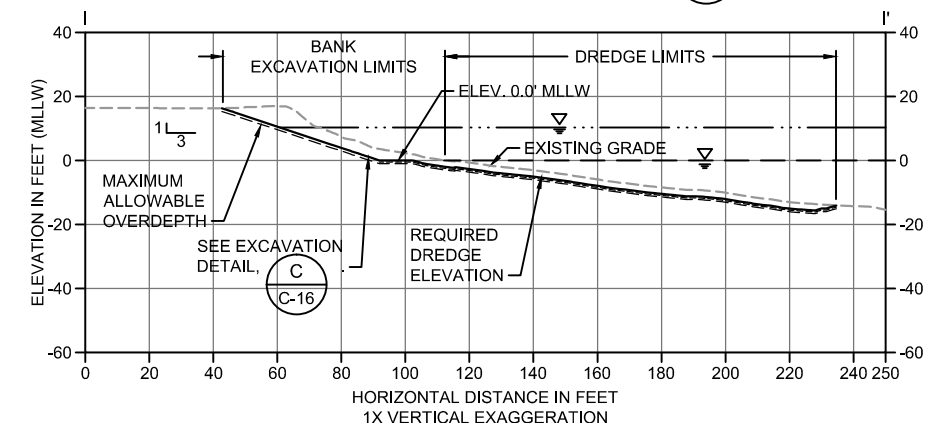
E DREDGE/EXCAVATION SECTION
C-03 SCALE: 1" = 30'

F DREDGE/EXCAVATION SECTION
C-03 SCALE: 1" = 30'

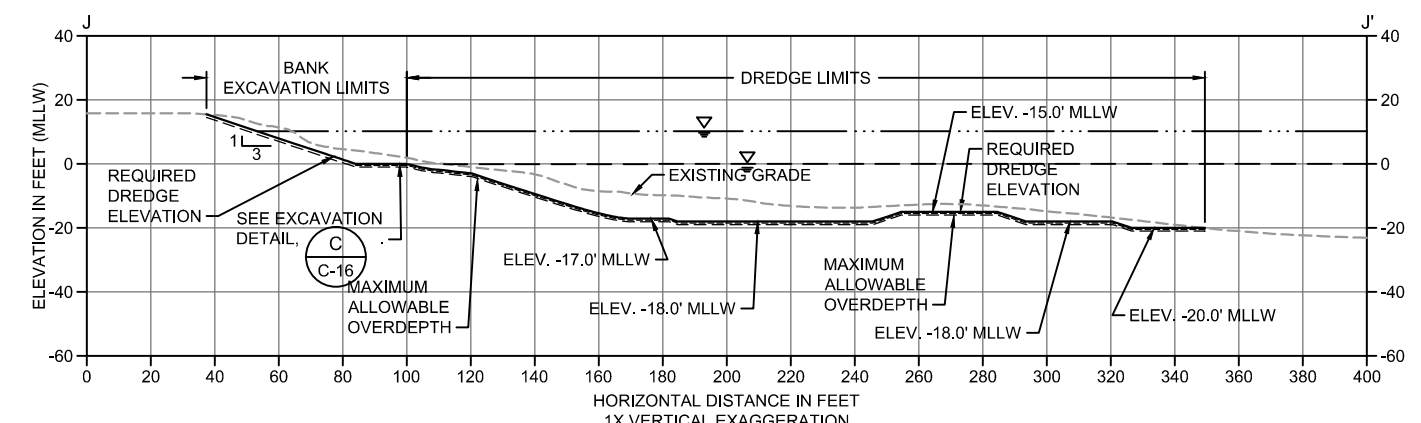
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C-03 SCALE: 1" = 30'



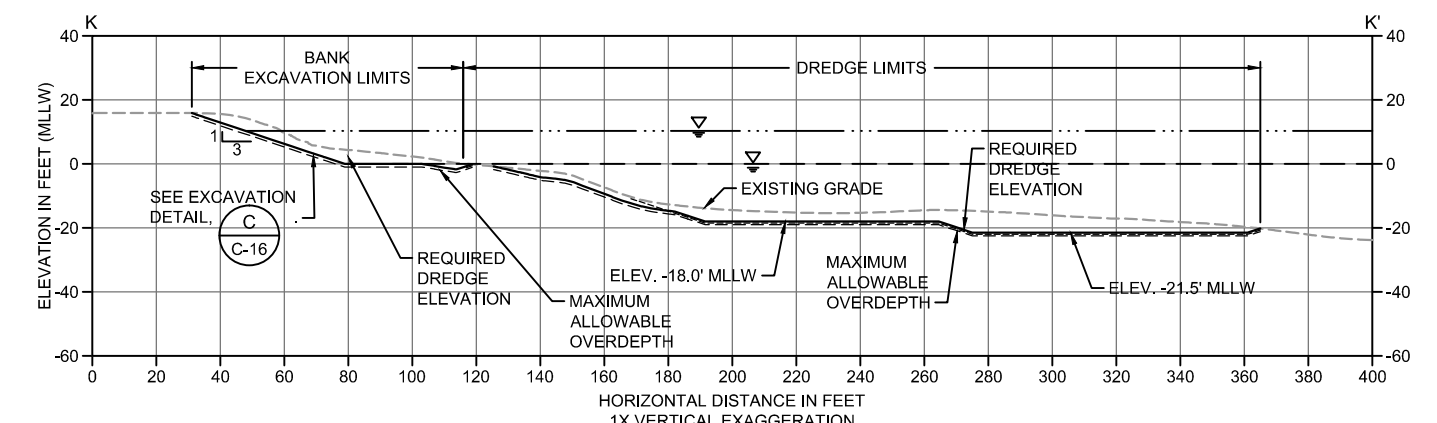
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C-03 SCALE: 1" = 30'



I DREDGE/EXCAVATION SECTION
C-04 SCALE: 1" = 30'

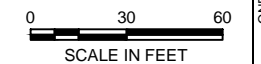
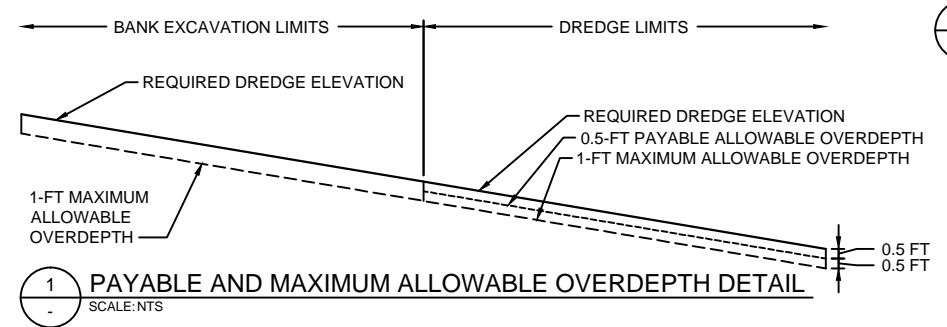


J DREDGE/EXCAVATION SECTION
C-04 SCALE: 1" = 30'



K DREDGE/EXCAVATION SECTION
C-04 SCALE: 1" = 30'

- LEGEND:**
- EXISTING GRADE
 - REQUIRED DREDGE ELEVATION
 - 0.5-FT PAYABLE ALLOWABLE OVERDEPTH LINE
 - 1-FT MAXIMUM ALLOWABLE OVERDEPTH LINE
 - MEAN HIGHER HIGH WATER LINE (ELEVATION 10.3' MLLW)
 - MEAN LOWER LOW WATER LINE (ELEVATION 0.0' MLLW)



ISSUED FOR CONSTRUCTION



POPE RESOURCES LP / OPG PROPERTIES LLC

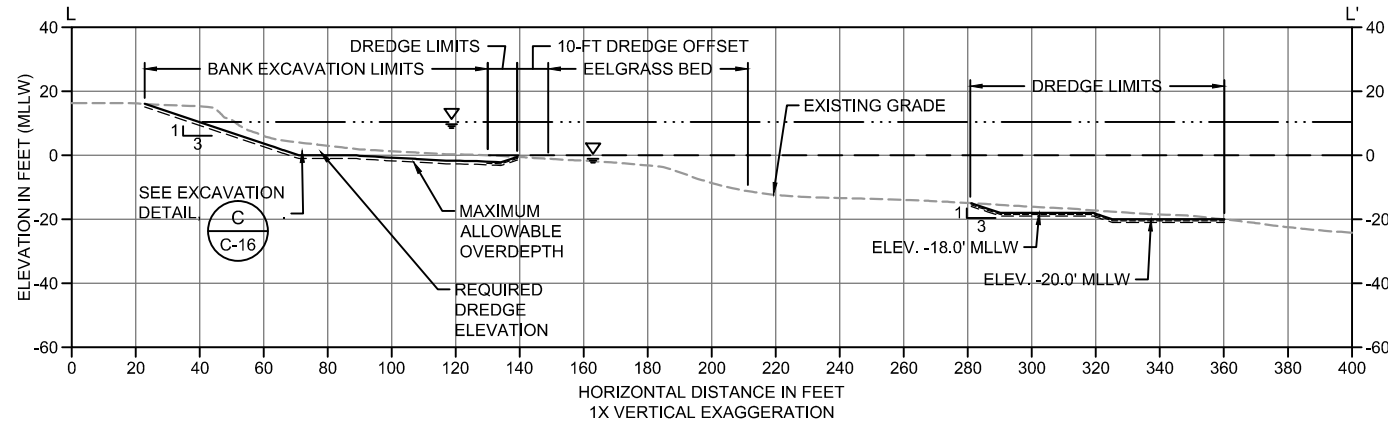


REVISIONS				
REV	DATE	BY	APPD	DESCRIPTION

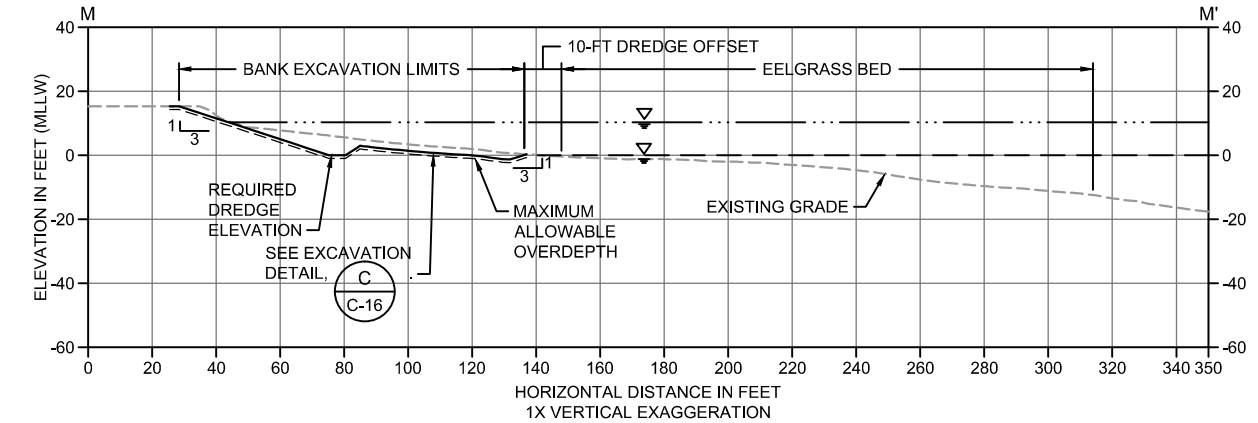
DESIGNED BY: R. PICKERING
 DRAWN BY: C. HEWETT
 CHECKED BY: J. LAPLANTE
 APPROVED BY: J. LAPLANTE
 SCALE: 1" = 30'
 DATE: JULY 2015

PORT GAMBLE BAY CLEANUP
DREDGE/EXCAVATION CROSS SECTIONS 1 OF 2 (SMA-2)

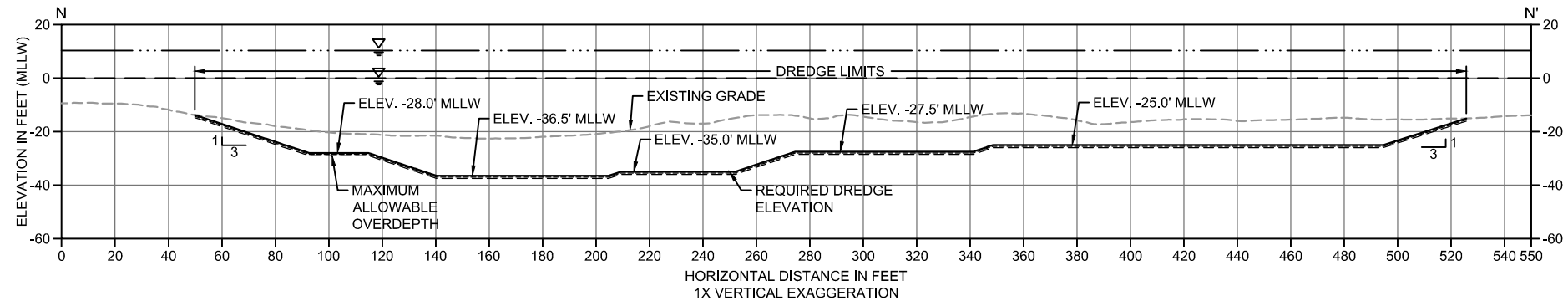
C-05
 SHEET NO. 15 OF 27



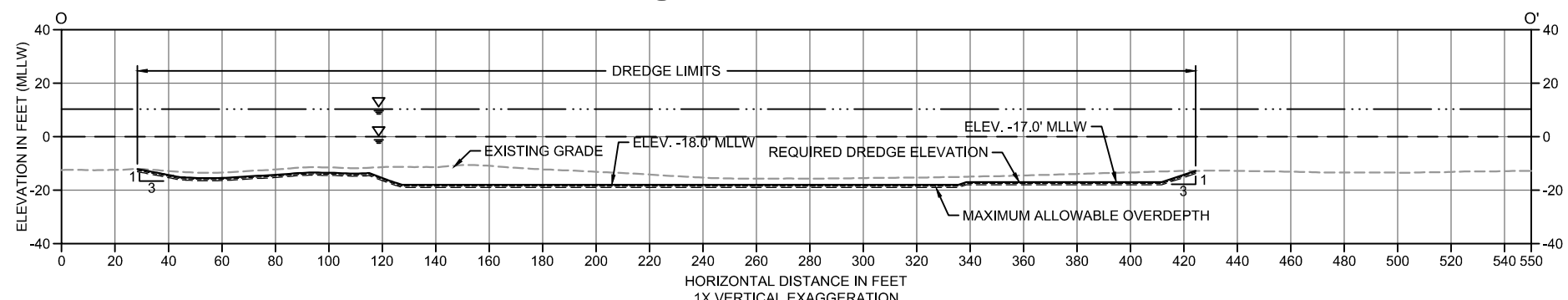
L DREDGE/EXCAVATION SECTION
SCALE: 1" = 30'



M DREDGE/EXCAVATION SECTION
SCALE: 1" = 30'

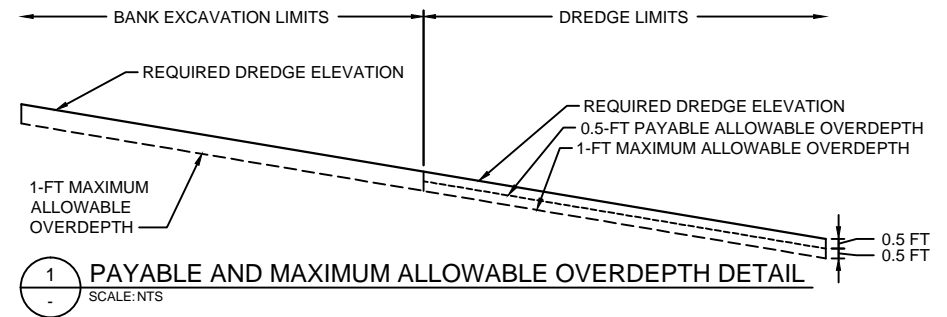


N DREDGE/EXCAVATION SECTION
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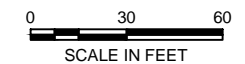


O DREDGE/EXCAVATION SECTION
SCALE: 1" = 30'

- LEGEND:**
- EXISTING GRADE
 - REQUIRED DREDGE ELEVATION
 - 0.5-FT PAYABLE ALLOWABLE OVERDEPTH LINE
 - 1-FT MAXIMUM ALLOWABLE OVERDEPTH LINE
 - MEAN HIGHER HIGH WATER LINE (ELEVATION 10.3' MLLW)
 - MEAN LOWER LOW WATER LINE (ELEVATION 0.0' MLLW)



1 PAYABLE AND MAXIMUM ALLOWABLE OVERDEPTH DETAIL
SCALE: NTS



ISSUED FOR CONSTRUCTION

ONE INCH
AT FULL SIZE, IF NOT ONE
INCH SCALE ACCORDINGLY

K:\Projects\0386-Pope Resources\Port Gamble Sediment Cleanup RIF\Construction Plans\0386-C-06 (SMA_2 Dredge Plan and XS).dwg C-06 Aug 11, 2015 3:47pm chewett



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REVISIONS				
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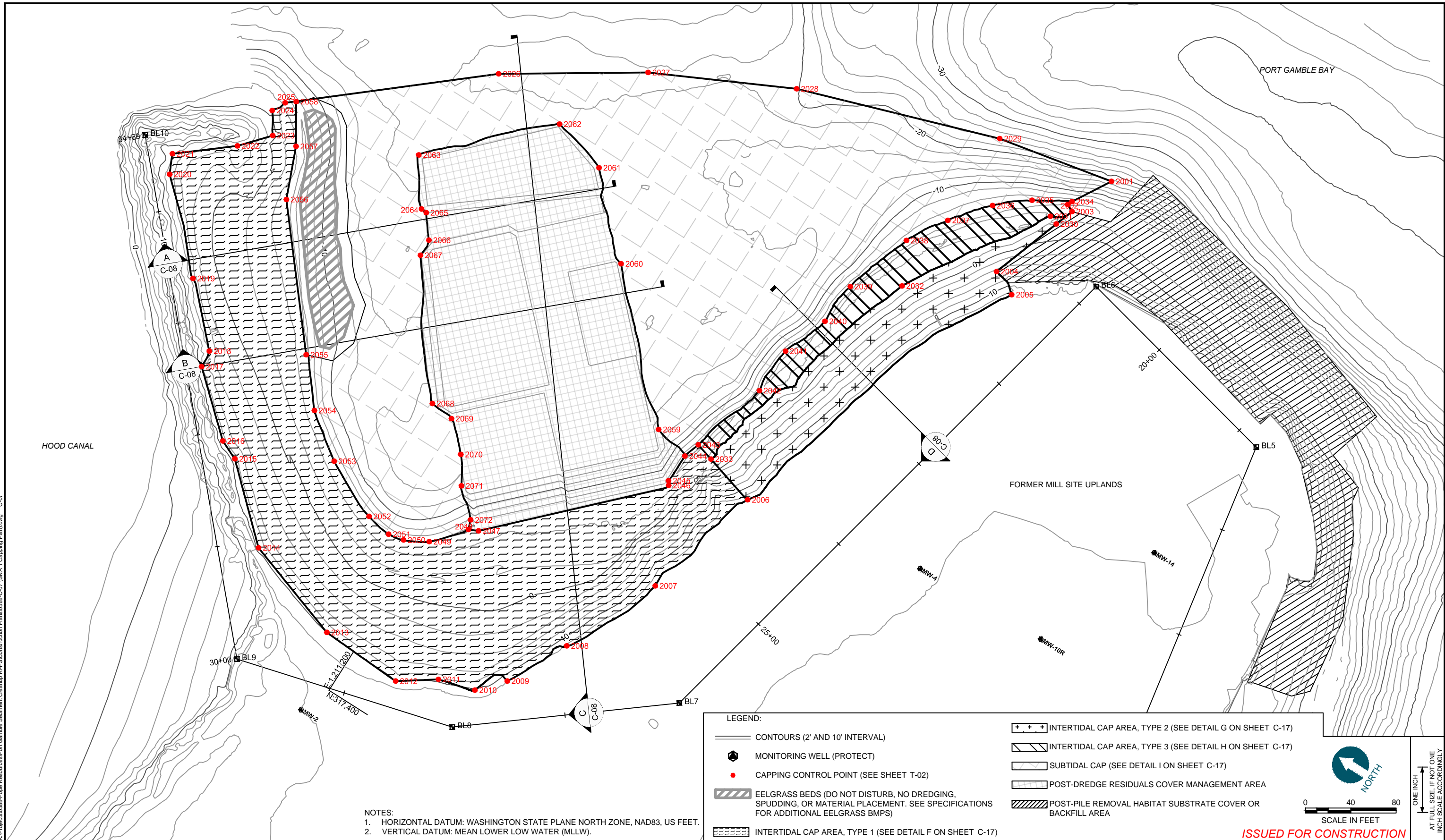
DESIGNED BY: R. PICKERING
 DRAWN BY: C. HEWETT
 CHECKED BY: J. LAPLANTE
 APPROVED BY: J. LAPLANTE
 SCALE: 1" = 30'
 DATE: JULY 2015

PORT GAMBLE BAY CLEANUP
DREDGE/EXCAVATION CROSS SECTIONS 2 OF 2 (SMA-2)

C-06
 SHEET NO. 16 OF 27

K:\Projects\0386-Pope Resources\Port Gamble Sediment Cleanup RIF\Construction Plans\0386-C-07 (SMA-1 Capping Plan).dwg C-07

Aug 11, 2015 3:47pm chewett



NOTES:
 1. HORIZONTAL DATUM: WASHINGTON STATE PLANE NORTH ZONE, NAD83, US FEET.
 2. VERTICAL DATUM: MEAN LOWER LOW WATER (MLLW).

LEGEND:

- CONTOURS (2' AND 10' INTERVAL)
- MONITORING WELL (PROTECT)
- CAPPING CONTROL POINT (SEE SHEET T-02)
- EELGRASS BEDS (DO NOT DISTURB, NO DREDGING, SPUDDING, OR MATERIAL PLACEMENT. SEE SPECIFICATIONS FOR ADDITIONAL EELGRASS BMPs)
- INTERTIDAL CAP AREA, TYPE 1 (SEE DETAIL F ON SHEET C-17)
- INTERTIDAL CAP AREA, TYPE 2 (SEE DETAIL G ON SHEET C-17)
- INTERTIDAL CAP AREA, TYPE 3 (SEE DETAIL H ON SHEET C-17)
- SUBTIDAL CAP (SEE DETAIL I ON SHEET C-17)
- POST-DREDGE RESIDUALS COVER MANAGEMENT AREA
- POST-PILE REMOVAL HABITAT SUBSTRATE COVER OR BACKFILL AREA

SCALE IN FEET
 0 40 80
 ONE INCH AT FULL SCALE, IF NOT ONE INCH SCALE ACCORDINGLY

ISSUED FOR CONSTRUCTION



REVISIONS				
REV	DATE	BY	APPD	DESCRIPTION

DESIGNED BY: R. PICKERING
 DRAWN BY: C. HEWETT
 CHECKED BY: J. LAPLANTE
 APPROVED BY: J. LAPLANTE
 SCALE: 1" = 40'
 DATE: JULY 2015



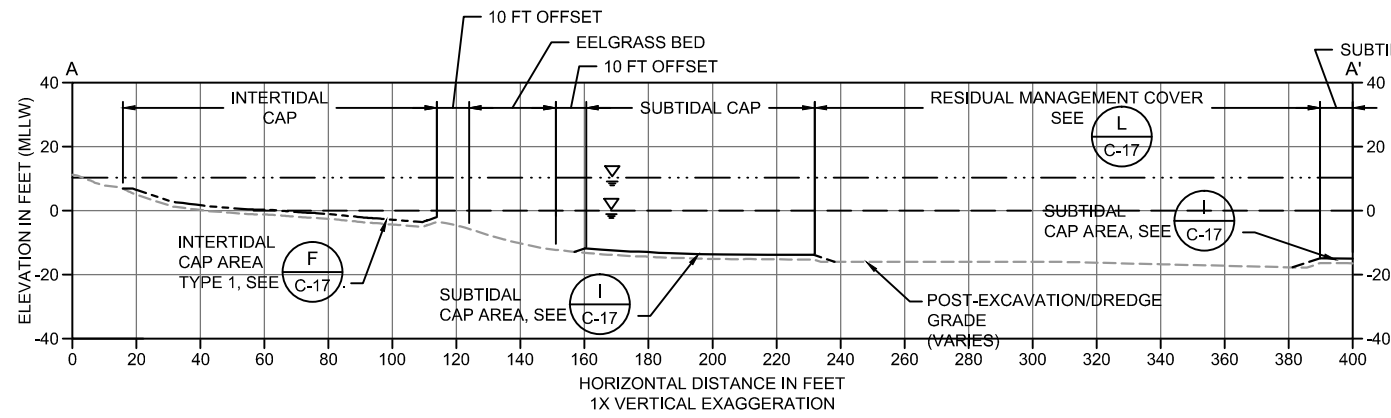
POPE RESOURCES LP / OPG PROPERTIES LLC

PORT GAMBLE BAY CLEANUP

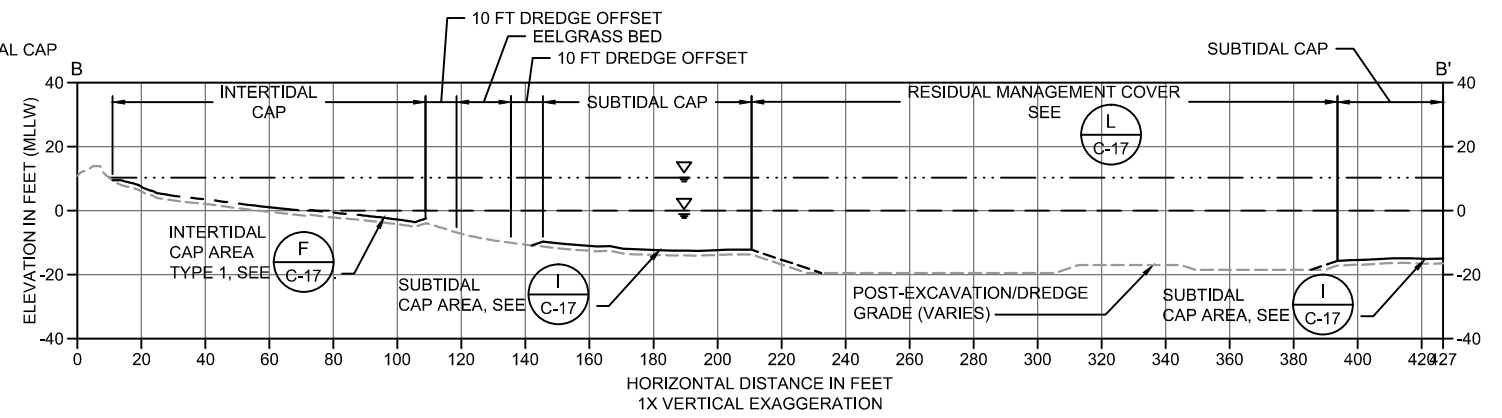
RESIDUALS COVER AND CAPPING PLAN (SMA-1)

C-07

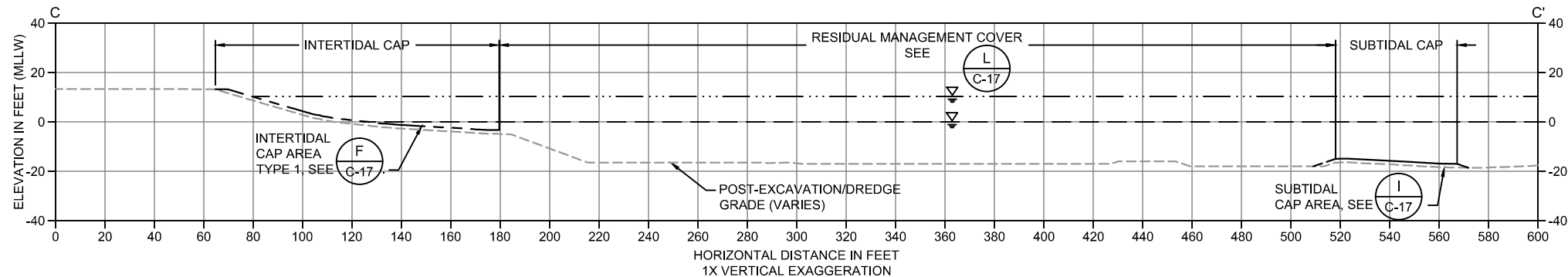
SHEET NO. 17 OF 27



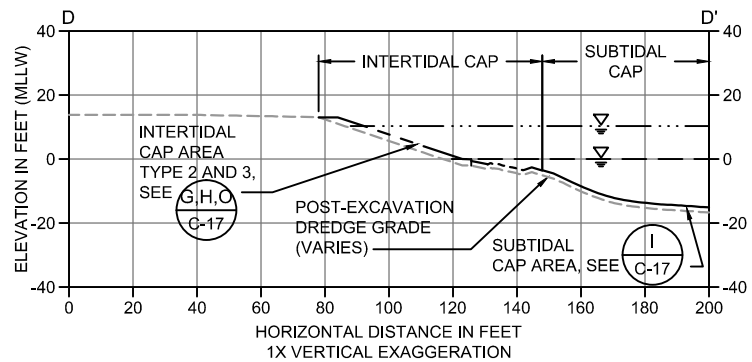
A CAPPING SECTION
C-07 SCALE: 1" = 30'



B CAPPING SECTION
C-07 SCALE: 1" = 30'

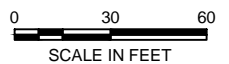


C CAPPING SECTION
C-07 SCALE: 1" = 30'



D CAPPING SECTION
C-07 SCALE: 1" = 30'

- LEGEND:**
- POST-DREDGE AND -EXCAVATION GRADE
 - SUBTIDAL CAP MINIMUM GRADE
 - INTERTIDAL CAP MINIMUM GRADE
 - ANTICIPATED ANGLE OF REPOSE
 - MEAN HIGHER HIGH WATER LINE (ELEVATION 10.3' MLLW)
 - - - - MEAN LOWER LOW WATER LINE (ELEVATION 0.0' MLLW)



ISSUED FOR CONSTRUCTION

ONE INCH
AT FULL SIZE, IF NOT ONE
INCH SCALE ACCORDINGLY

K:\Projects\0386-Pope Resources\Port Gamble Sediment Cleanup RIF\Construction Plans\0386-C-07 (SMA-1 Capping Plan).dwg C-08
Aug 11, 2015 3:47pm chewett



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REV	DATE	BY	APPD	DESCRIPTION

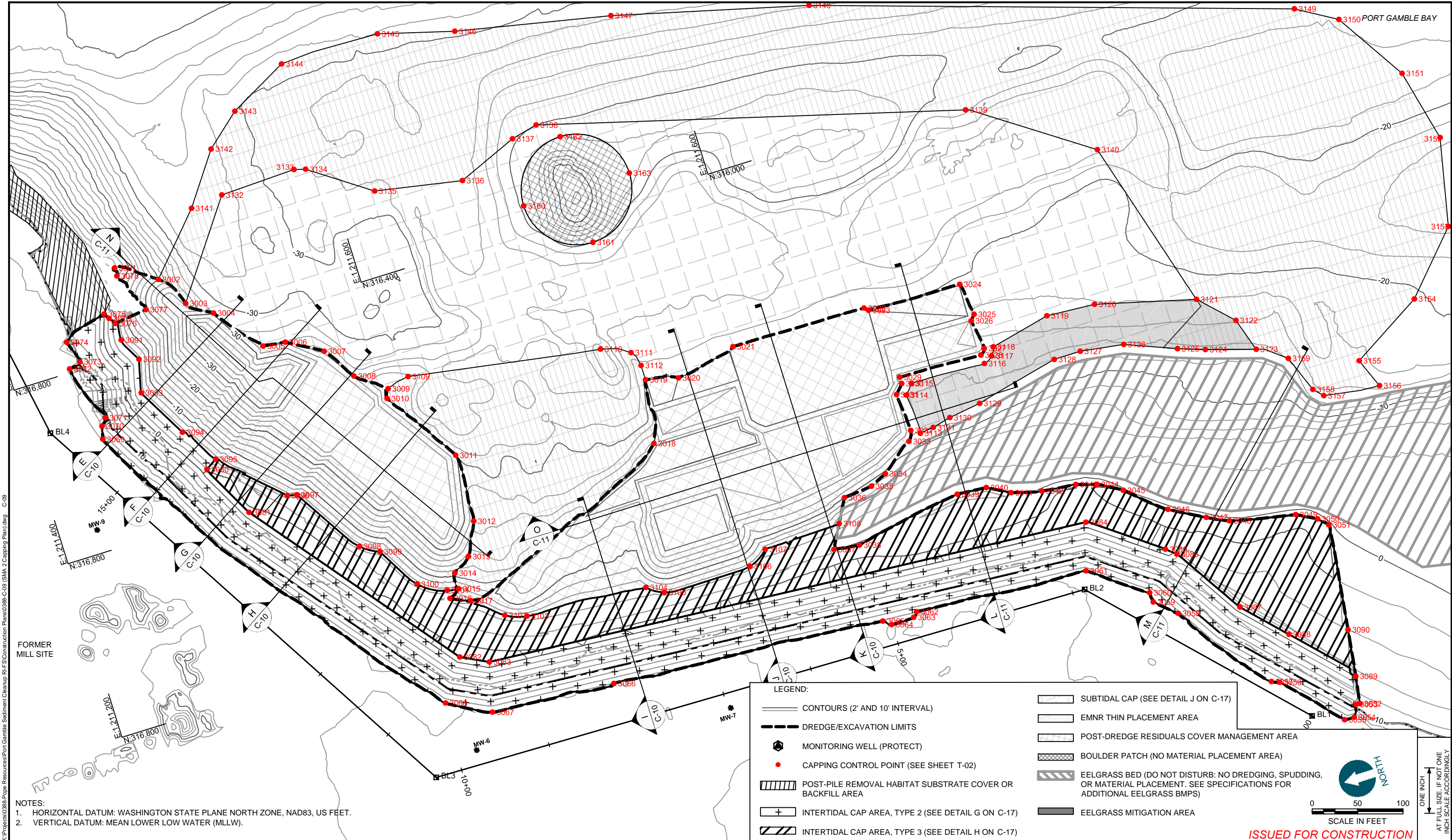
DESIGNED BY: R. PICKERING
 DRAWN BY: C. HEWETT
 CHECKED BY: J. LAPLANTE
 APPROVED BY: J. LAPLANTE
 SCALE: 1" = 30'
 DATE: JULY 2015

PORT GAMBLE BAY CLEANUP

RESIDUALS COVER AND CAPPING CROSS SECTIONS (SMA-1)

C-08

SHEET NO. 18 OF 27



NOTES:
 1. HORIZONTAL DATUM: WASHINGTON STATE PLANE NORTH ZONE, NAD83, US FEET.
 2. VERTICAL DATUM: MEAN LOWER LOW WATER (MLLW).

LEGEND:

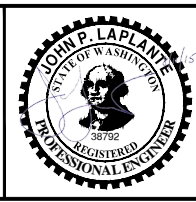
- CONTOURS (2' AND 10' INTERVAL)
- DREDGE/EXCAVATION LIMITS
- MONITORING WELL (PROTECT)
- CAPPING CONTROL POINT (SEE SHEET T-02)
- POST-PILE REMOVAL HABITAT SUBSTRATE COVER OR BACKFILL AREA
- INTERTIDAL CAP AREA, TYPE 2 (SEE DETAIL G ON C-17)
- INTERTIDAL CAP AREA, TYPE 3 (SEE DETAIL H ON C-17)
- SUBTIDAL CAP (SEE DETAIL J ON C-17)
- EMNR THIN PLACEMENT AREA
- POST-DREDGE RESIDUALS COVER MANAGEMENT AREA
- BOULDER PATCH (NO MATERIAL PLACEMENT AREA)
- EELGRASS BED (DO NOT DISTURB: NO DREDGING, SPUDDING, OR MATERIAL PLACEMENT. SEE SPECIFICATIONS FOR ADDITIONAL EELGRASS BMPS)
- EELGRASS MITIGATION AREA

SCALE IN FEET: 0 50 100

ISSUED FOR CONSTRUCTION



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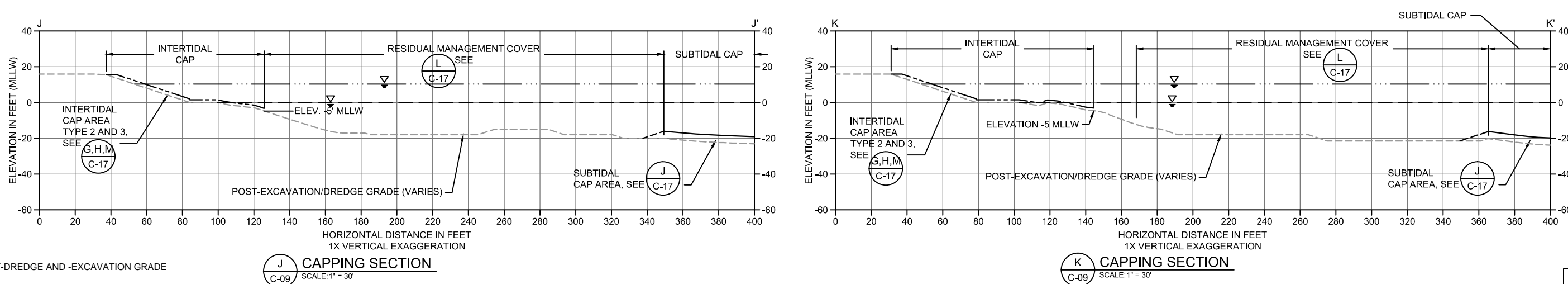
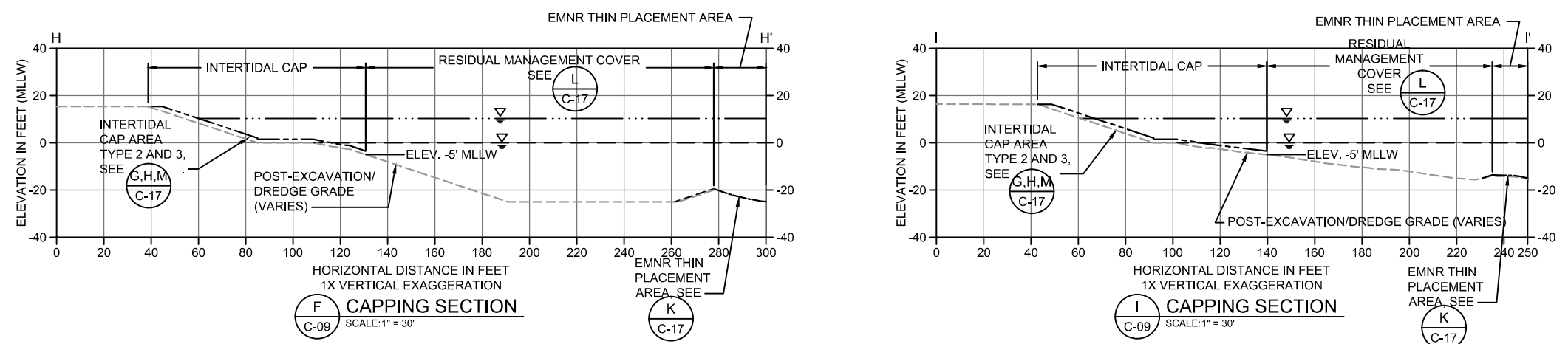
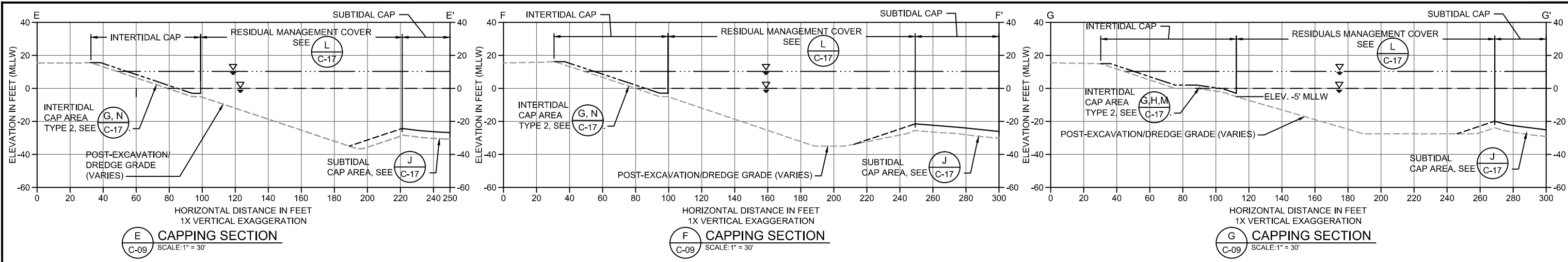
REV	DATE	BY	APPD	DESCRIPTION

DESIGNED BY: R. PICKERING
 DRAWN BY: C. HEWETT
 CHECKED BY: J. LAPLANTE
 APPROVED BY: J. LAPLANTE
 SCALE: 1" = 50'
 DATE: JULY 2015

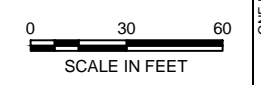
PORT GAMBLE BAY CLEANUP
CAPPING PLAN (SMA-2)

C-09
 SHEET NO. 19 OF 27

K:\Projects\0386-Pope-Resources\Port Gamble Sediment Cleanup RIF\Construction Plans\0386-C-09 (SMA_2 Capping Plan).dwg C-09
 Aug 11, 2015 3:46pm chewett



- LEGEND:**
- POST-DREDGE AND -EXCAVATION GRADE
 - SUBTIDAL CAP MINIMUM GRADE
 - INTERTIDAL CAP MINIMUM GRADE
 - ANTICIPATED ANGLE OF REPOSE
 - MEAN HIGHER HIGH WATER LINE (ELEVATION 10.3' MLLW)
 - MEAN LOWER LOW WATER LINE (ELEVATION 0.0' MLLW)



ISSUED FOR CONSTRUCTION

K:\Projects\0386-Pope Resources\Port Gamble Sediment Cleanup RIF Construction Plans\0386-C-09 (SMA - 2 Capping Plan).dwg C-10
Aug 11, 2015 3:48pm chewett



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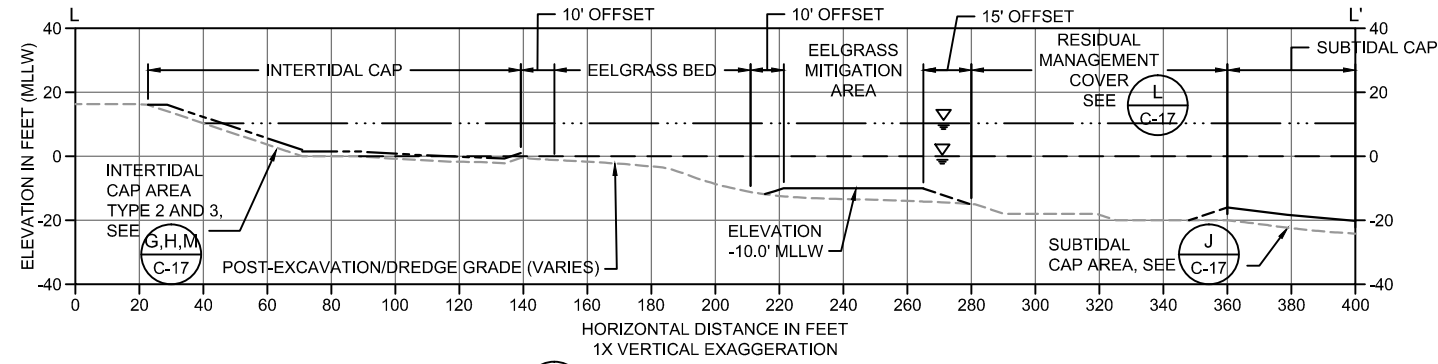


REVISIONS				
REV	DATE	BY	APPD	DESCRIPTION

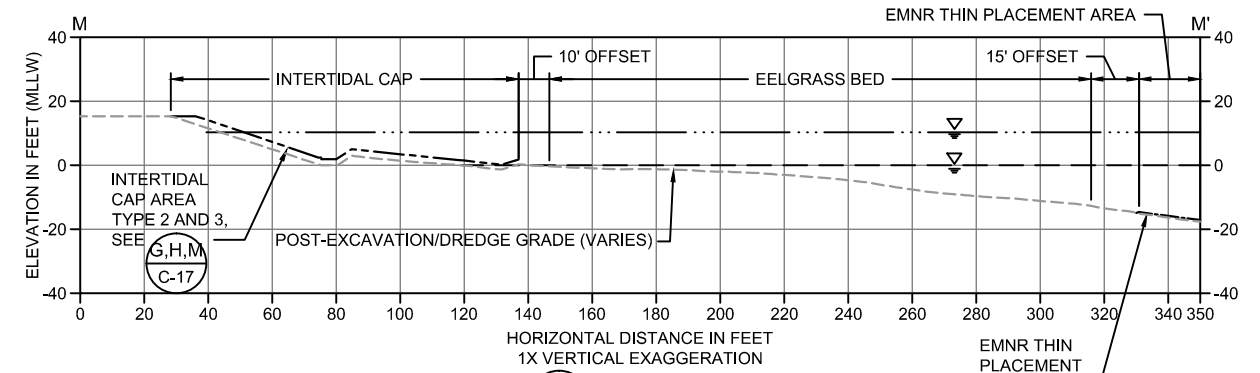
DESIGNED BY: R. PICKERING
 DRAWN BY: C. HEWETT
 CHECKED BY: J. LAPLANTE
 APPROVED BY: J. LAPLANTE
 SCALE: 1" = 30'
 DATE: JULY 2015

PORT GAMBLE BAY CLEANUP
CAPPING CROSS SECTIONS (SMA-2) 1 OF 2

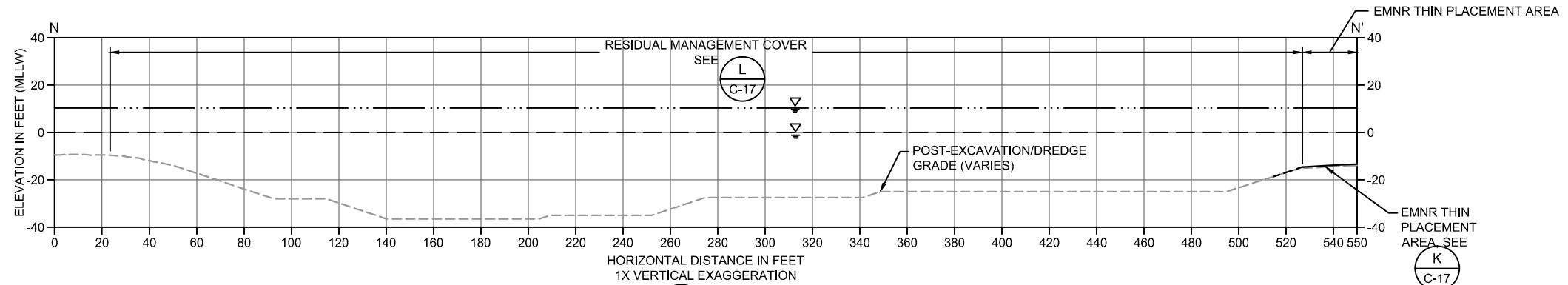
C-10
 SHEET NO. 20 OF 27



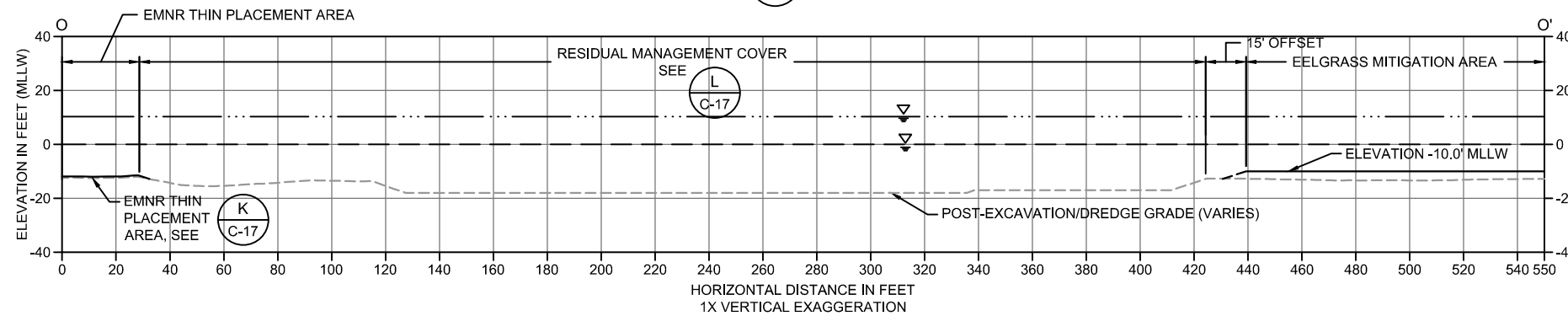
L CAPPING SECTION
SCALE: 1" = 30'



M CAPPING SECTION
SCALE: 1" = 30'

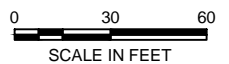


N CAPPING SECTION
SCALE: 1" = 30'



O CAPPING SECTION
SCALE: 1" = 30'

- LEGEND:**
- POST-DREDGE AND -EXCAVATION GRADE
 - SUBTIDAL CAP MINIMUM GRADE
 - INTERTIDAL CAP MINIMUM GRADE
 - ANTICIPATED ANGLE OF REPOSE
 - MEAN HIGHER HIGH WATER LINE (ELEVATION 10.3' MLLW)
 - MEAN LOWER LOW WATER LINE (ELEVATION 0.0' MLLW)



ISSUED FOR CONSTRUCTION

ONE INCH
AT FULL SIZE, IF NOT ONE
INCH SCALE ACCORDINGLY

K:\Projects\0386-Pope Resources\Port Gamble Sediment Cleanup RIFSC\Construction Plans\0386-C-09 (SMA_2 Capping Plan).dwg C-11
Aug 11, 2015 3:48pm chewett



POPE RESOURCES LP / OPG PROPERTIES LLC



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REV	DATE	BY	APPD	DESCRIPTION

DESIGNED BY: R. PICKERING
DRAWN BY: C. HEWETT
CHECKED BY: J. LAPLANTE
APPROVED BY: J. LAPLANTE
SCALE: 1" = 30'
DATE: JULY 2015

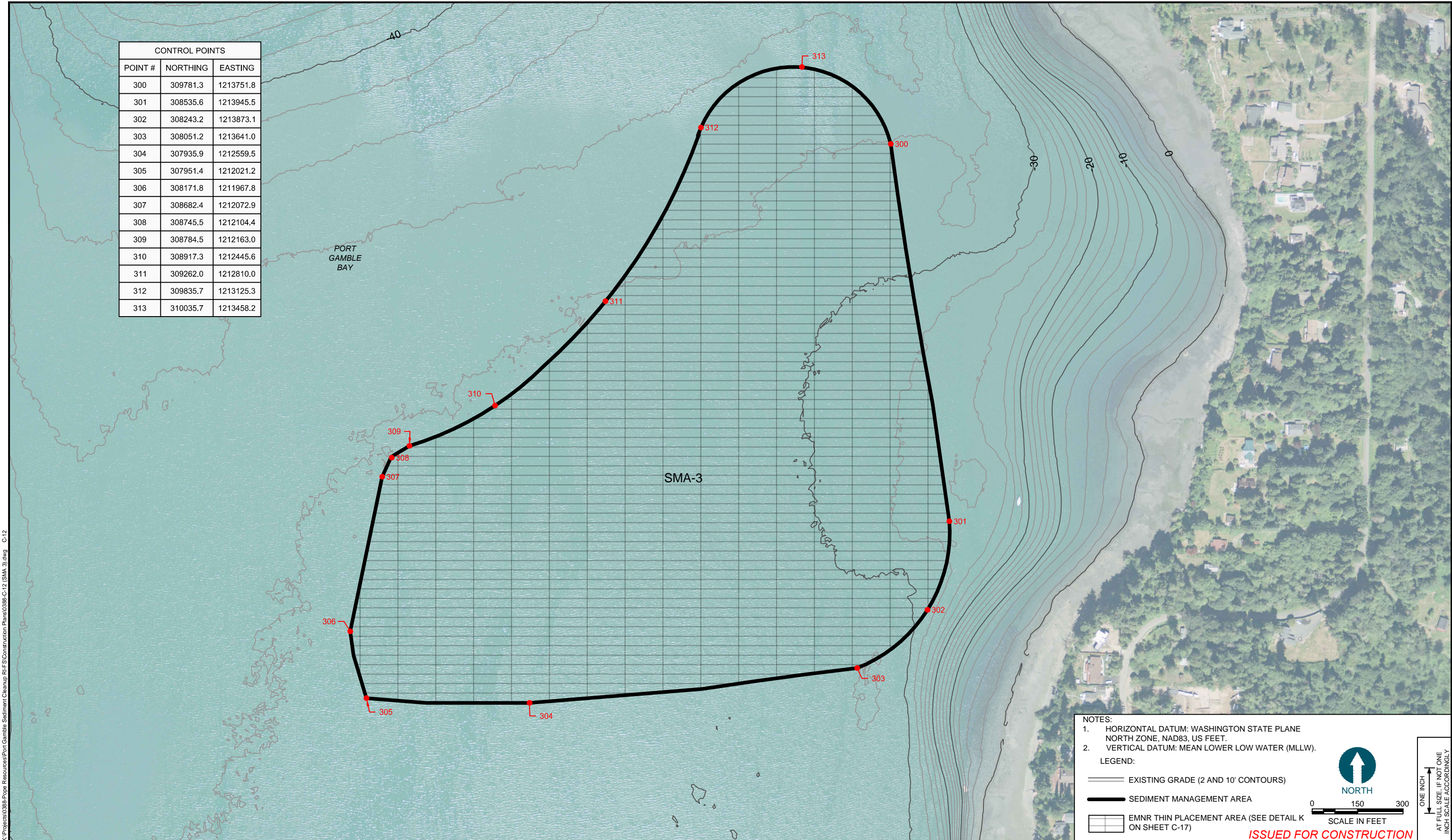
PORT GAMBLE BAY CLEANUP

CAPPING CROSS SECTIONS (SMA-2) 2 OF 2

C-11

SHEET NO. 21 OF 27

CONTROL POINTS		
POINT #	NORTHING	EASTING
300	309781.3	1213751.8
301	308535.6	1213945.5
302	308243.2	1213873.1
303	308051.2	1213641.0
304	307935.9	1212559.5
305	307951.4	1212021.2
306	308171.8	1211967.8
307	308682.4	1212072.9
308	308745.5	1212104.4
309	308784.5	1212163.0
310	308917.3	1212445.6
311	309262.0	1212810.0
312	309835.7	1213125.3
313	310035.7	1213458.2



NOTES:

- HORIZONTAL DATUM: WASHINGTON STATE PLANE NORTH ZONE, NAD83, US FEET.
- VERTICAL DATUM: MEAN LOWER LOW WATER (MLLW).

LEGEND:

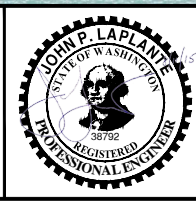
- EXISTING GRADE (2 AND 10' CONTOURS)
- SEDIMENT MANAGEMENT AREA
- EMNR THIN PLACEMENT AREA (SEE DETAIL K ON SHEET C-17)

ISSUED FOR CONSTRUCTION

K:\Projects\0386-Pope Resources\Port Gamble Sediment Cleanup RIF\Construction Plans\0386-C-12 (SMA_3).dwg C-12
Aug 11, 2015 3:46pm ch Hewett



POPE RESOURCES LP / OPG PROPERTIES LLC



REVISIONS				
REV	DATE	BY	APPD	DESCRIPTION

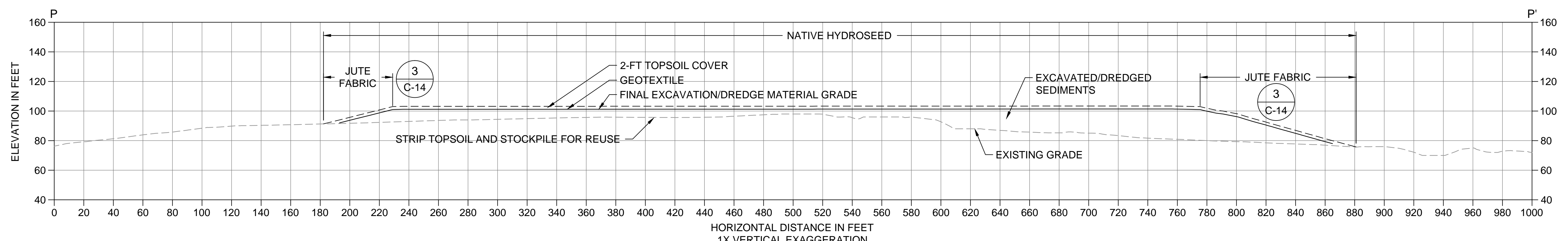
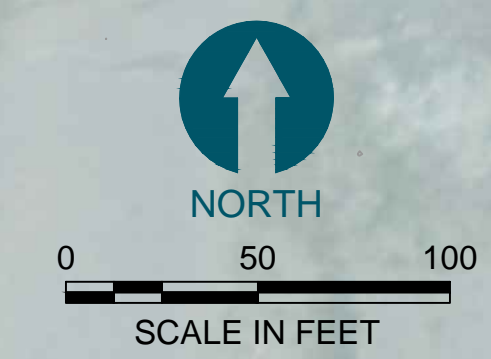
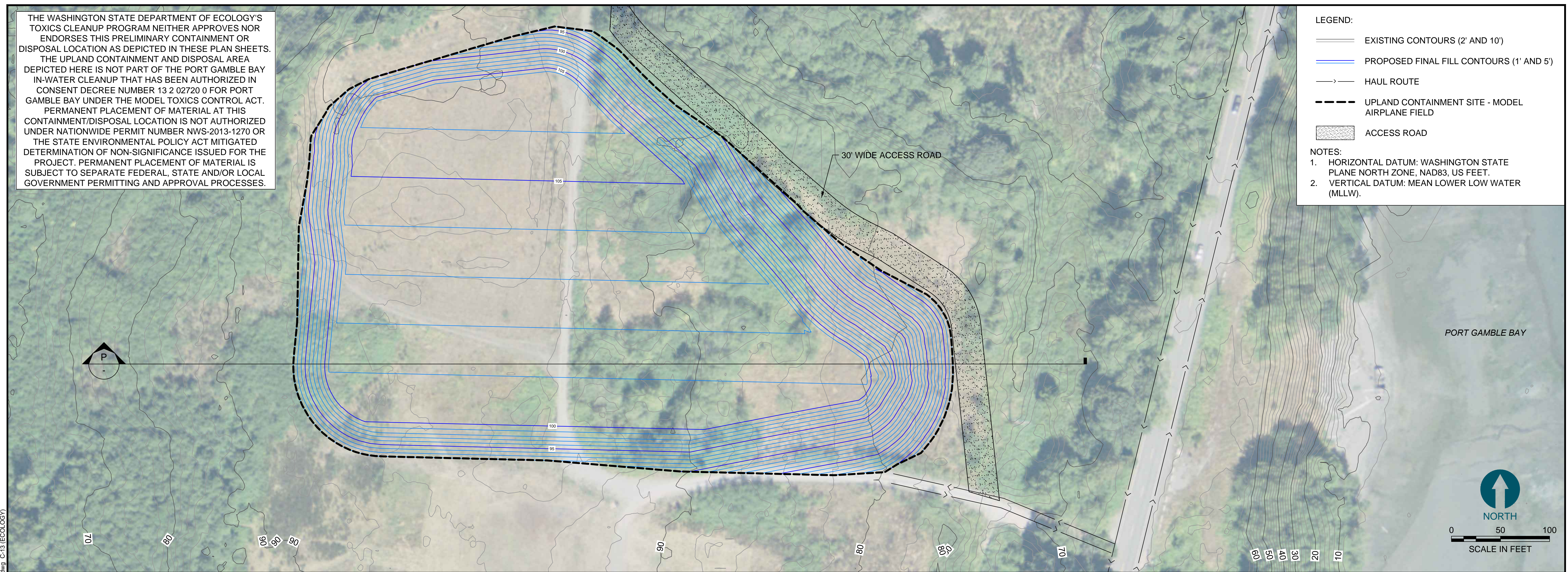
DESIGNED BY: R. PICKERING
 DRAWN BY: C. HEWETT
 CHECKED BY: J. LAPLANTE
 APPROVED BY: J. LAPLANTE
 SCALE: 1" = 150'
 DATE: JULY 2015

PORT GAMBLE BAY CLEANUP
ENHANCED NATURAL RECOVERY PLACEMENT PLAN (SMA-3)

C-12
 SHEET NO. 22 OF 27

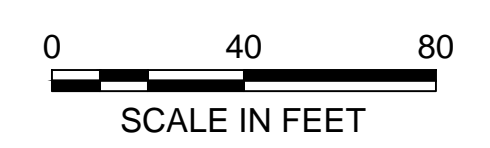
THE WASHINGTON STATE DEPARTMENT OF ECOLOGY'S TOXICS CLEANUP PROGRAM NEITHER APPROVES NOR ENDORSES THIS PRELIMINARY CONTAINMENT OR DISPOSAL LOCATION AS DEPICTED IN THESE PLAN SHEETS. THE UPLAND CONTAINMENT AND DISPOSAL AREA DEPICTED HERE IS NOT PART OF THE PORT GAMBLE BAY IN-WATER CLEANUP THAT HAS BEEN AUTHORIZED IN CONSENT DECREE NUMBER 13 2 02720 0 FOR PORT GAMBLE BAY UNDER THE MODEL TOXICS CONTROL ACT. PERMANENT PLACEMENT OF MATERIAL AT THIS CONTAINMENT/DISPOSAL LOCATION IS NOT AUTHORIZED UNDER NATIONWIDE PERMIT NUMBER NWS-2013-1270 OR THE STATE ENVIRONMENTAL POLICY ACT MITIGATED DETERMINATION OF NON-SIGNIFICANCE ISSUED FOR THE PROJECT. PERMANENT PLACEMENT OF MATERIAL IS SUBJECT TO SEPARATE FEDERAL, STATE AND/OR LOCAL GOVERNMENT PERMITTING AND APPROVAL PROCESSES.

- LEGEND:**
- EXISTING CONTOURS (2' AND 10')
 - PROPOSED FINAL FILL CONTOURS (1' AND 5')
 - HAUL ROUTE
 - UPLAND CONTAINMENT SITE - MODEL AIRPLANE FIELD
 - ACCESS ROAD
- NOTES:**
1. HORIZONTAL DATUM: WASHINGTON STATE PLANE NORTH ZONE, NAD83, US FEET.
 2. VERTICAL DATUM: MEAN LOWER LOW WATER (MLLW).



UPLAND CONTAINMENT SITE SECTION
SCALE: 1" = 30'

- LEGEND:**
- EXISTING GRADE
 - FINAL DREDGE MATERIAL GRADE/GEOTEXTILE
 - 2-Ft TOPSOIL COVER (FINAL GRADE)



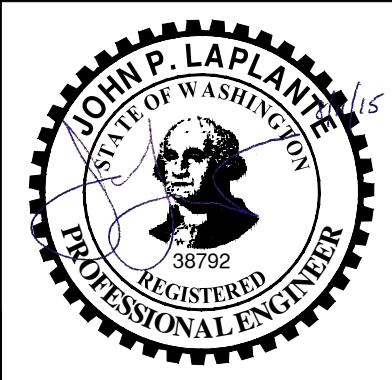
ISSUED FOR CONSTRUCTION

ONE INCH
AT FULL SIZE, IF NOT ONE
INCH SCALE ACCORDINGLY

K:\Projects\0388-Pope Resources\Port Gamble Sediment Cleanup_RL\FConstruction Plans\0388-C-13 (Upland Disposal).dwg C-13 (ECOLOGIST)
Aug 24, 2015 10:41 am chewett



POPE RESOURCES LP / OPG PROPERTIES LLC



REVISIONS				
REV	DATE	BY	APP'D	DESCRIPTION

DESIGNED BY: R. PICKERING
 DRAWN BY: C. HEWETT
 CHECKED BY: J. LAPLANTE
 APPROVED BY: J. LAPLANTE
 SCALE: AS NOTED
 DATE: JULY 2015

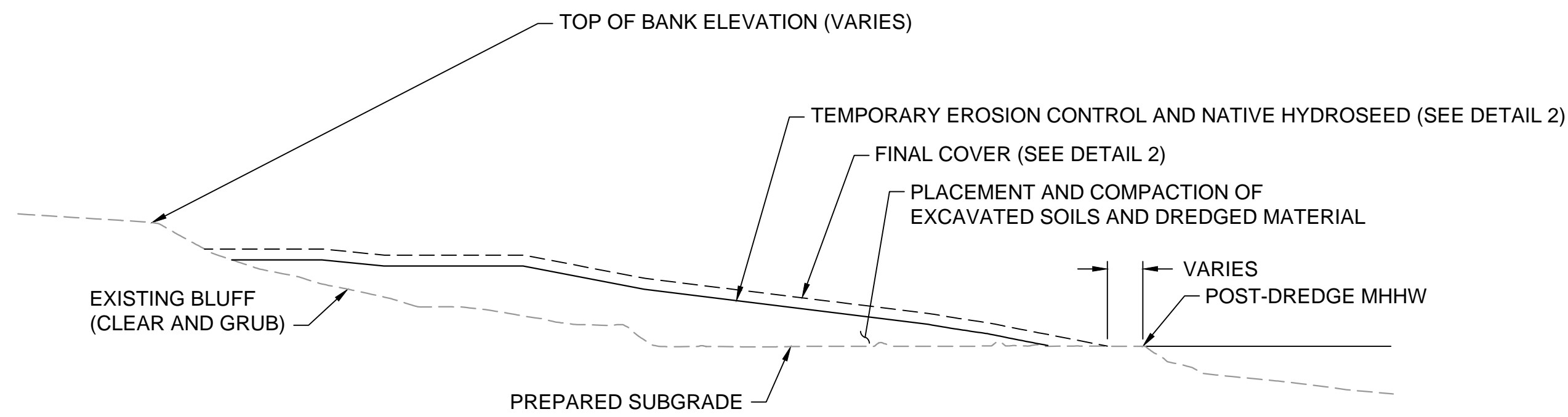
PORT GAMBLE BAY CLEANUP

**UPLAND CONTAINMENT SITE -
MODEL AIRPLANE FIELD**

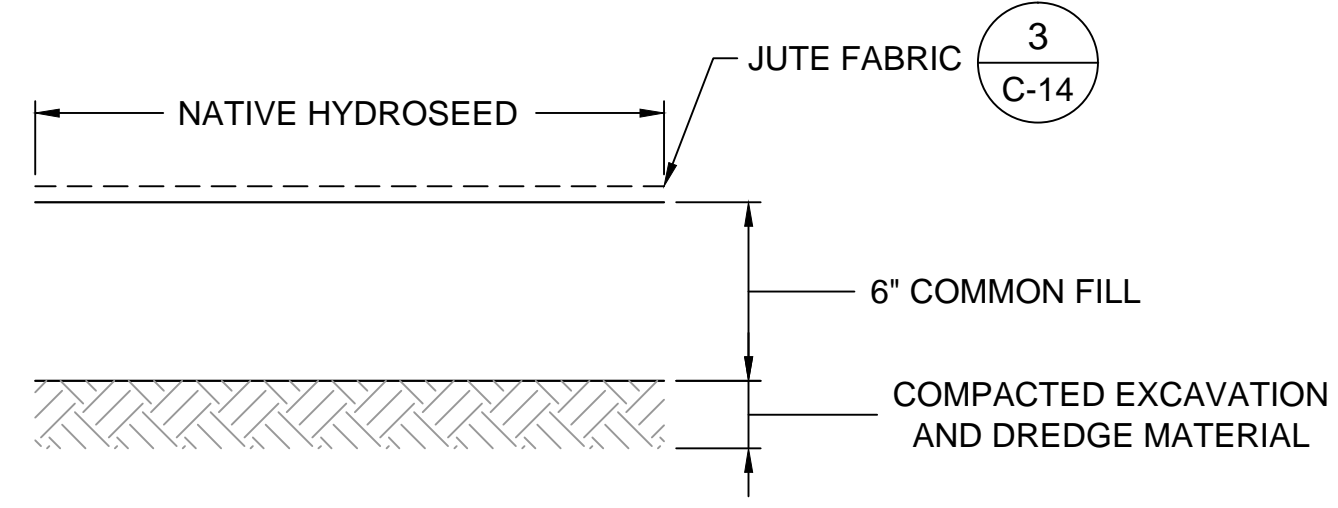
C-13

SHEET NO. 23 OF 27

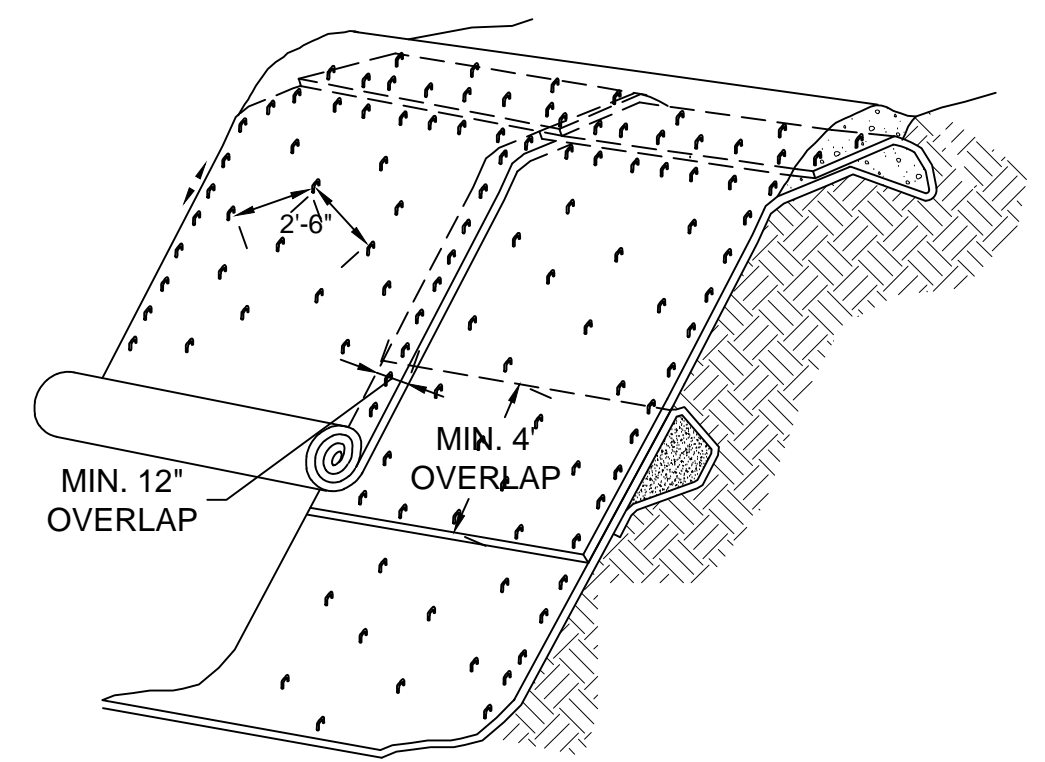
THE WASHINGTON STATE DEPARTMENT OF ECOLOGY'S TOXICS CLEANUP PROGRAM NEITHER APPROVES NOR ENDORSES THIS PRELIMINARY CONTAINMENT OR DISPOSAL LOCATION AS DEPICTED IN THESE PLAN SHEETS. THE UPLAND CONTAINMENT AND DISPOSAL AREA DEPICTED HERE IS NOT PART OF THE PORT GAMBLE BAY IN-WATER CLEANUP THAT HAS BEEN AUTHORIZED IN CONSENT DECREE NUMBER 13 2 02720 0 FOR PORT GAMBLE BAY UNDER THE MODEL TOXICS CONTROL ACT. PERMANENT PLACEMENT OF MATERIAL AT THIS CONTAINMENT/DISPOSAL LOCATION IS NOT AUTHORIZED UNDER NATIONWIDE PERMIT NUMBER NWS-2013-1270 OR THE STATE ENVIRONMENTAL POLICY ACT MITIGATED DETERMINATION OF NON-SIGNIFICANCE ISSUED FOR THE PROJECT. PERMANENT PLACEMENT OF MATERIAL IS SUBJECT TO SEPARATE FEDERAL, STATE AND/OR LOCAL GOVERNMENT PERMITTING AND APPROVAL PROCESSES.



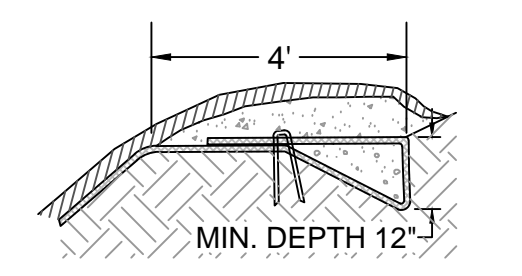
1 PLACEMENT DETAIL
SCALE: NTS



2 FINAL COVER DETAIL
SCALE: NTS



JUTE FABRIC INSTALLATION, TOP OF SLOPE ISOMETRIC VIEW
NOT TO SCALE



TOP OF SLOPE ANCHOR DETAIL

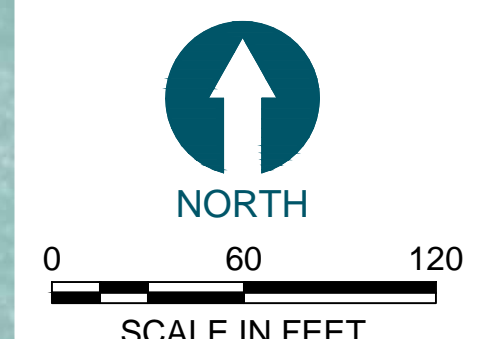
3 JUTE FABRIC SLOPE PROTECTION
SCALE: NTS

- NOTES:
1. SLOPE SURFACE SHALL BE FREE OF ROCKS, CLODS, STICKS AND GRASS. MATS/BLANKETS SHALL HAVE GOOD SOIL CONTACT. LAY BLANKETS LOOSELY AND STAKE OR STAPLE TO MAINTAIN DIRECT CONTACT WITH THE SOIL. DO NOT STRETCH.
 2. MATS/BLANKETS SHOULD BE INSTALLED VERTICALLY DOWNSLOPE.
 3. INSTALL JUTE MAT OVER ENTIRE PLANTING AREA. AVOID EXISTING TREES AND EXISTING STUMPS.
 4. JUTE FABRIC SHALL BE ROLLED IN A CONTROLLED FASHION. INSTALL STAKES AS MAT IS UNROLLED. FABRIC SHALL NOT BE ALLOWED TO ROLL DOWN THE SLOPE ON ITS OWN.

LEGEND:
 EXISTING GRADE (2' AND 10' CONTOURS)
 UPLAND CONTAINMENT SITE - FORMER MILL SITE
 HAUL ROUTE

NOTES:
 1. CONTAINMENT AREA DESIGN IS PRELIMINARY, FINAL DESIGN MAY VARY FROM DESIGN SHOWN.
 2. HORIZONTAL DATUM: WASHINGTON STATE PLANE NORTH ZONE, NAD83, US FEET.
 3. VERTICAL DATUM: MEAN LOWER LOW WATER (MLLW).

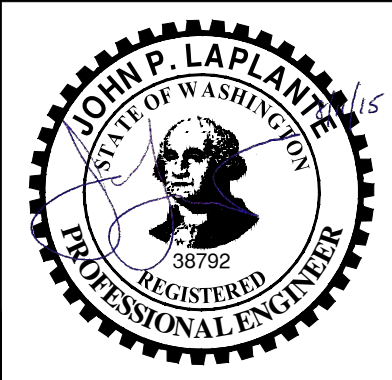
PORT GAMBLE BAY



ISSUED FOR CONSTRUCTION



POPE RESOURCES LP / OPG PROPERTIES LLC



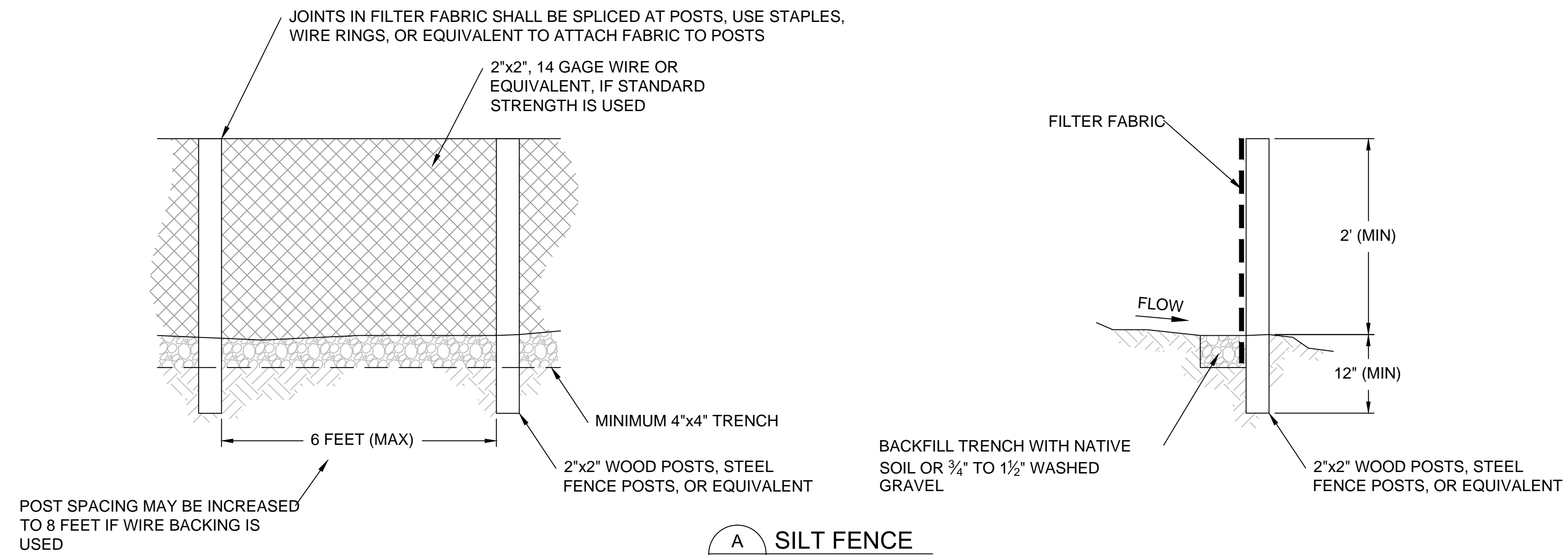
REVISIONS				
REV	DATE	BY	APP'D	DESCRIPTION

DESIGNED BY: R. PICKERING
 DRAWN BY: C. HEWETT
 CHECKED BY: J. LAPLANTE
 APPROVED BY: J. LAPLANTE
 SCALE: 1" = 100'
 DATE: JULY 2015

PORT GAMBLE BAY CLEANUP
 UPLAND CONTAINMENT SITE - FORMER MILL SITE

C-14
 SHEET NO. 24 OF 27

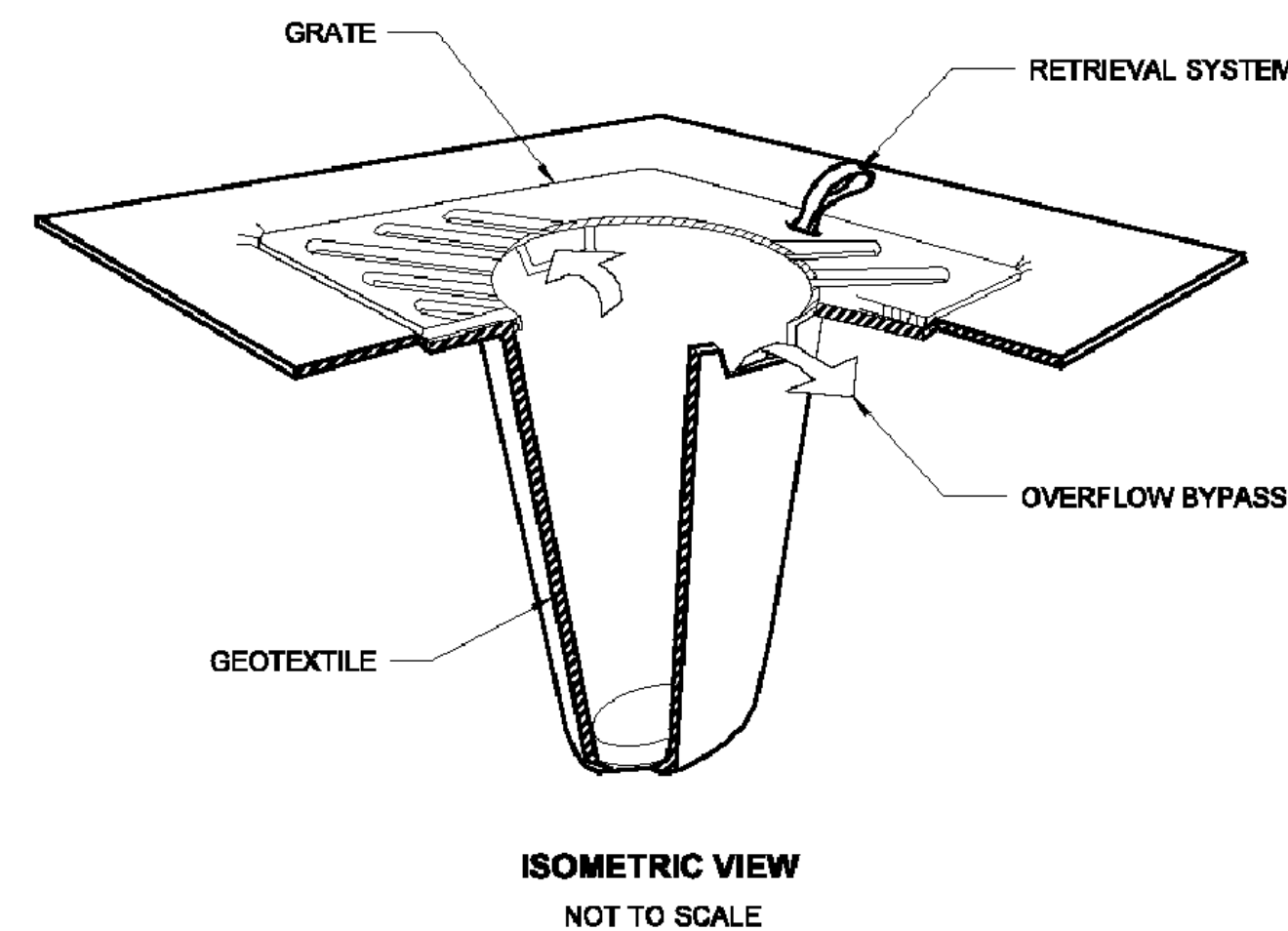
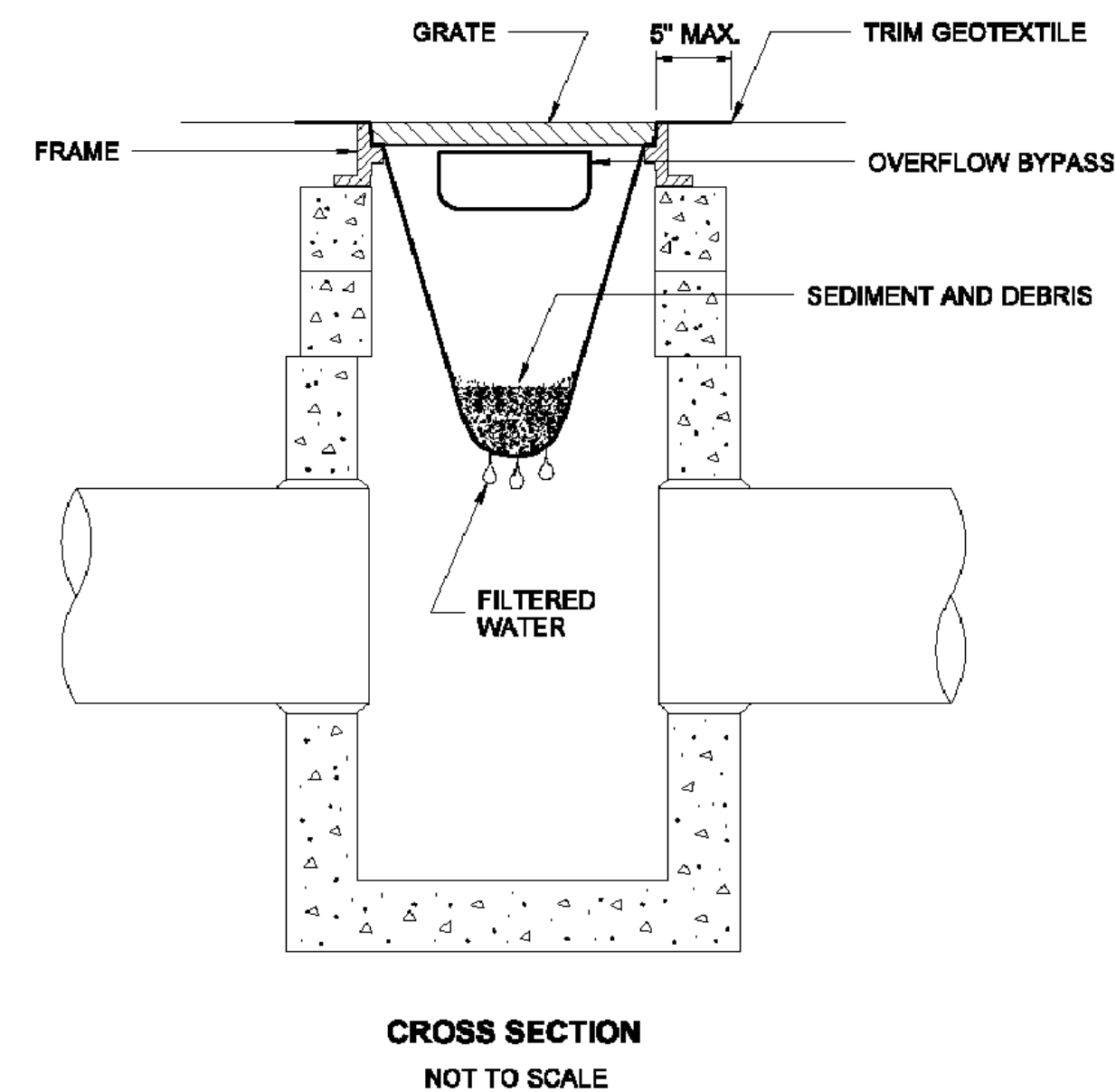
K:\Projects\0388-Pope Resources\Port Gamble Sediment Cleanup_RL\FCSConstruction Plans\0388-C-13 (Upland Disposal).dwg C-14 (ECOLOG)



A SILT FENCE
SCALE: NTS

NOTES:

1. PERFORM MAINTENANCE IN ACCORDANCE WITH SPECIFICATIONS.
2. SIZE THE BELOW GRATE INLET DEVICE (BGID) FOR THE STORM WATER STRUCTURE IT WILL SERVICE.
3. THE BGID SHALL HAVE A BUILT-IN HIGH-FLOW RELIEF SYSTEM (OVERFLOW BYPASS).
4. THE RETRIEVAL SYSTEM MUST ALLOW REMOVAL OF THE BGID WITHOUT SPILLING THE COLLECTED MATERIAL.



B CATCH BASIN PROTECTION
SCALE: NTS

EROSION CONTROL NOTES:

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR FURNISHING, INSTALLING, AND MAINTAINING ALL MEASURES NECESSARY TO MEET CONSTRUCTION BEST MANAGEMENT PRACTICES (BMPs) IN ACCORDANCE WITH WASHINGTON STATE DEPARTMENT OF ECOLOGY STORMWATER MANAGEMENT MANUAL FOR WESTERN WASHINGTON (2012), WSDOT HIGHWAY RUNOFF MANUAL (2014), AND ALL OTHER STATE AND LOCAL REQUIREMENTS.
2. TEMPORARY EROSION AND SEDIMENT CONTROL (TESC) FEATURES SHALL BE INSTALLED TO PREVENT RUNOFF FROM THE DEWATERED SEDIMENT FROM ENTERING ADJACENT SURFACE WATER BODY. THE NEED FOR THESE FEATURES, AND THEIR LOCATION, SHALL BE DETERMINED DURING CONSTRUCTION BASED ON THE ACTUAL LOCATION OF THE OFFLOADING AND TEMPORARY STORAGE ACTIVITIES.
3. FILTER FABRIC SILT FENCES, WHERE USED, SHALL BE INSTALLED ALONG A CONTOUR OF CONSTANT ELEVATION WHENEVER POSSIBLE.
4. ALTERNATIVES SUCH AS HAY BALES OR BRUSH BARRIERS MAY BE SUBSTITUTED IN LIEU OF SILT FENCES, SUBJECT TO APPROVAL OF THE ENGINEER.
5. TESC FEATURES SHALL BE USED BETWEEN ALL DRAINAGE DITCHES AND ADJACENT SURFACE WATER BODY WHERE THESE DITCHES AREA DOWNSTREAM OF THE OFFLOADING AND TEMPORARY STORAGE AREAS.
6. THE CONTRACTOR SHALL KEEP OFF-SITE STREETS THAT ARE IMPACTED AS A RESULT OF THE CONTRACTOR'S WORK CLEAN AT ALL TIMES. FLUSHING STREETS SHALL NOT BE ALLOWED. ALL STREETS SHOULD BE SWEEPED USING HIGH EFFICIENCY VACUUM SWEEPERS.
7. THE TEMPORARY EROSION/SEDIMENT CONTROLS SHALL BE INSTALLED, INSPECTED, AND OPERATING BEFORE ANY EXCAVATION OCCURS. THESE CONTROLS MUST BE SATISFACTORILY MAINTAINED UNTIL CONSTRUCTION ACTIVITIES ARE APPROVED AS COMPLETE BY THE OWNER.

ISSUED FOR CONSTRUCTION

ONE INCH
AT FULL SIZE; IF NOT ONE
INCH SCALE ACCORDINGLY

K:\Projects\0388-Port Gamble Sediment Cleanup R\F\Construction Plans\0388-C-15 (Details).dwg C-15

Aug 11, 2015 9:49am chevet



POPE RESOURCES LP / OPG PROPERTIES LLC



REVISIONS				
REV	DATE	BY	APP'D	DESCRIPTION

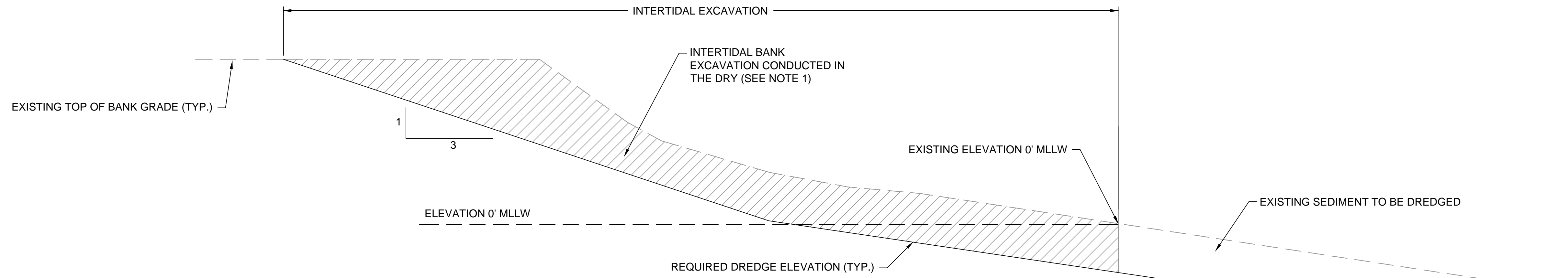
DESIGNED BY: R. PICKERING
DRAWN BY: C. HEWETT
CHECKED BY: J. LAPLANTE
APPROVED BY: J. LAPLANTE
SCALE: AS NOTED
DATE: JULY 2015

PORT GAMBLE BAY CLEANUP

TESC DETAILS

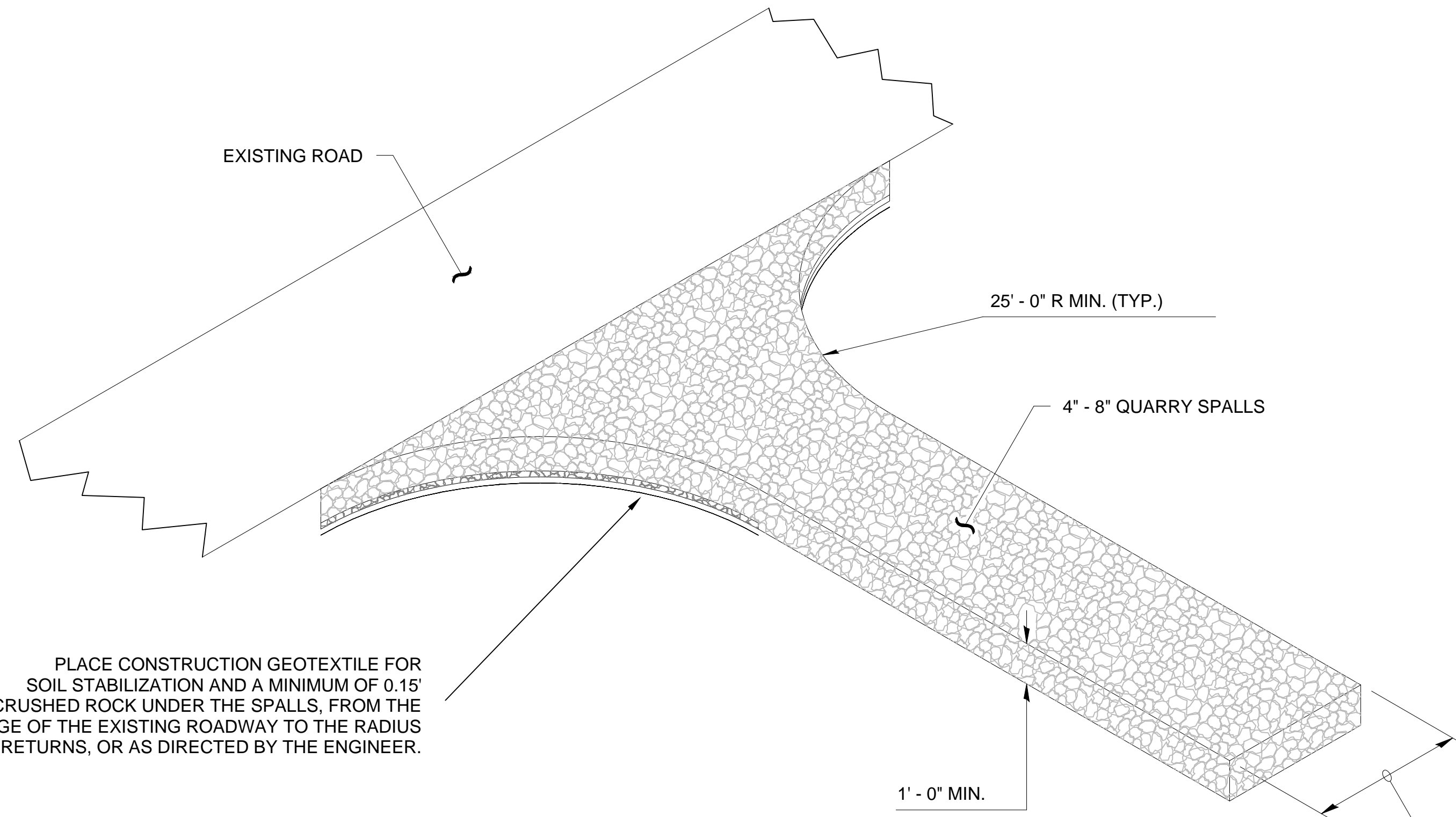
C-15

SHEET NO. 25 OF 27



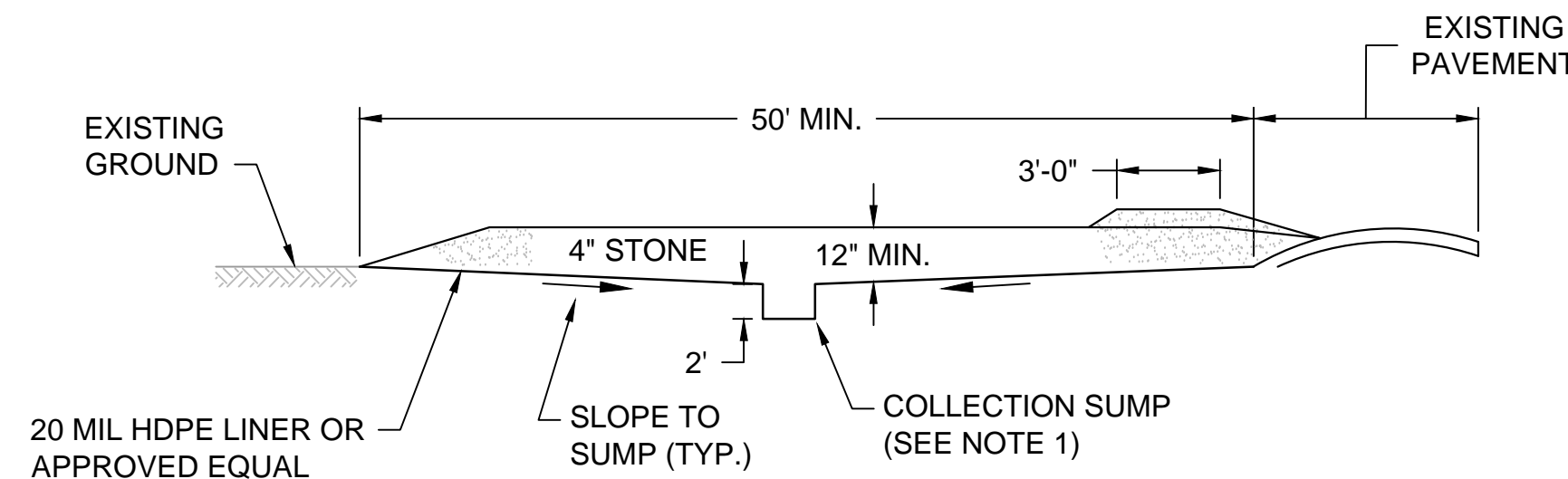
C EXCAVATION DETAIL
SCALE: NTS

- NOTES:**
1. FOR EXISTING ELEVATION 0' MLLW AND HIGHER, EXCAVATE IN THE DRY. IF THE REQUIRED DREDGE ELEVATION BENEATH THE EXISTING ELEVATION 0' MLLW CANNOT BE PRACTICABLY ACHIEVED IN THE DRY, DREDGE EQUIPMENT MAY BE USED.
 2. PLACE A MINIMUM OF 6" OF FILTER MATERIAL WITHIN THE SAME TIDAL CYCLE OVER THE NEWLY-EXCAVATED SURFACE, FOLLOWING CONFIRMATION THE REQUIRED DREDGE ELEVATIONS HAVE BEEN ACHIEVED.
 3. IF IN THE DRY EXCAVATION DOWN TO THE REQUIRED DREDGE ELEVATIONS IS NOT ACHIEVED PRIOR TO THE INCOMING TIDE, THE CONTRACTOR SHALL PROTECT THE NEWLY-EXCAVATED SURFACE UNTIL THE SUBSEQUENT LOW WATER WORK PERIOD.

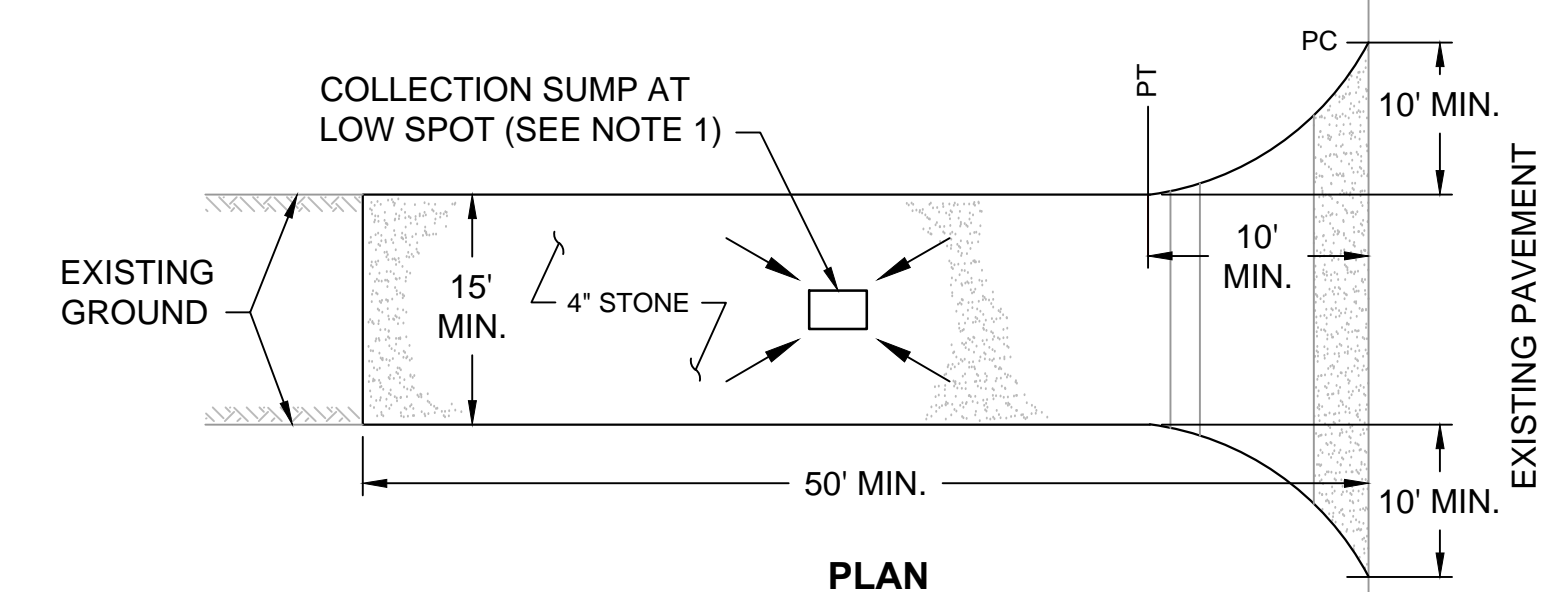


D STABILIZED CONSTRUCTION ENTRANCE
SCALE: NTS

- NOTES:**
1. A STABILIZED ENTRANCE, SUCH AS THE DETAIL SHOWN, SHALL BE CONSTRUCTED, IF NECESSARY, AT THE ENGINEER'S DIRECTION TO PREVENT TRACKING OF SOIL ONTO PUBLIC ROADWAYS AND TO PREVENT EROSION AND RUNOFF FROM ACCESS ROUTES.



PROFILE



PLAN

TRUCK WASH STATION NOTES:

1. WASH STATION SHALL BE CONSTRUCTED WITH A 20 MIL HDPE LINER SYSTEM TO DRAIN TO 2' DEEP HDPE LINED COLLECTION SUMP. DECONTAMINATION WATER IN THE COLLECTION SUMP SHALL BE DISPOSED OF AT THE APPROVED AND PERMITTED DISPOSAL FACILITY.
2. THE TRUCK WASH STATION SHALL BE MAINTAINED IN A CONDITION THAT WILL PREVENT TRACKING OR FLOWING OF SOIL/DEBRIS ONTO ADJACENT PAVED AREAS. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND AND REPAIR AND/OR CLEANOUT OF THE COLLECTION SUMP. ALL SOIL/DEBRIS SPILLED, DROPPED, WASHED OR TRACKED ONTO ADJACENT PAVEMENT MUST BE REMOVED IMMEDIATELY.
3. PERIODIC INSPECTION AND NEEDED MAINTENANCE SHALL BE PROVIDED AFTER EACH RAIN.
4. STONE AND ACCUMULATED SEDIMENT SHALL BE REMOVED AND DISPOSED OF AT AN APPROPRIATE DISPOSAL FACILITY AT THE CONCLUSION OF THE PROJECT.

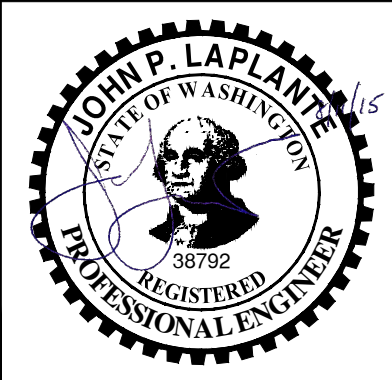
E TRUCK WASH STATION - TYP.
SCALE: NTS

ISSUED FOR CONSTRUCTION

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Aug 11, 2015 9:49am chevett



POPE RESOURCES LP / OPG PROPERTIES LLC



REVISIONS				
REV	DATE	BY	APP'D	DESCRIPTION

DESIGNED BY: R. PICKERING
 DRAWN BY: C. HEWETT
 CHECKED BY: J. LAPLANTE
 APPROVED BY: J. LAPLANTE
 SCALE: AS NOTED
 DATE: JULY 2015

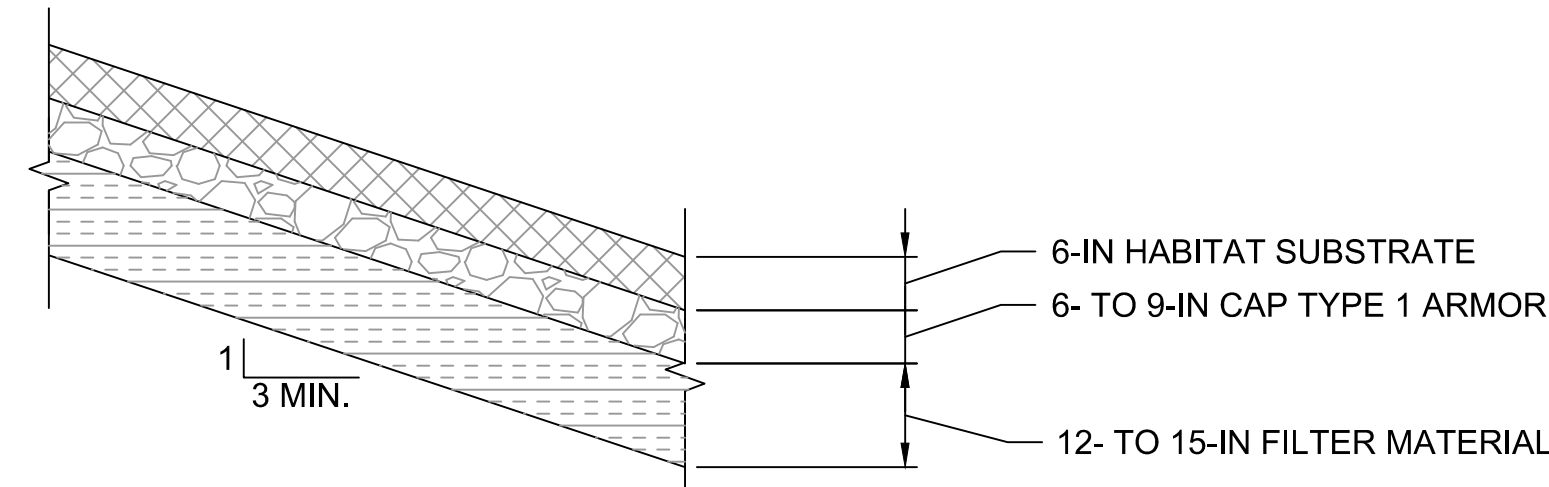
PORT GAMBLE BAY CLEANUP

MISCELLANEOUS DETAILS

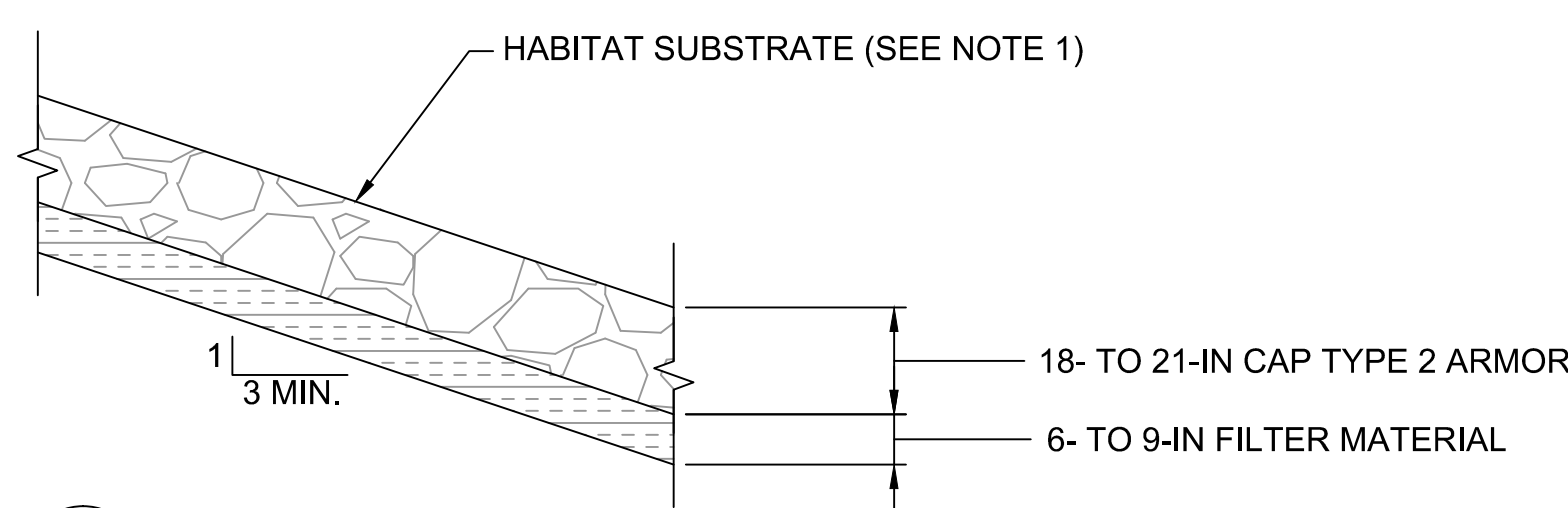
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SHEET NO. 26 OF 27

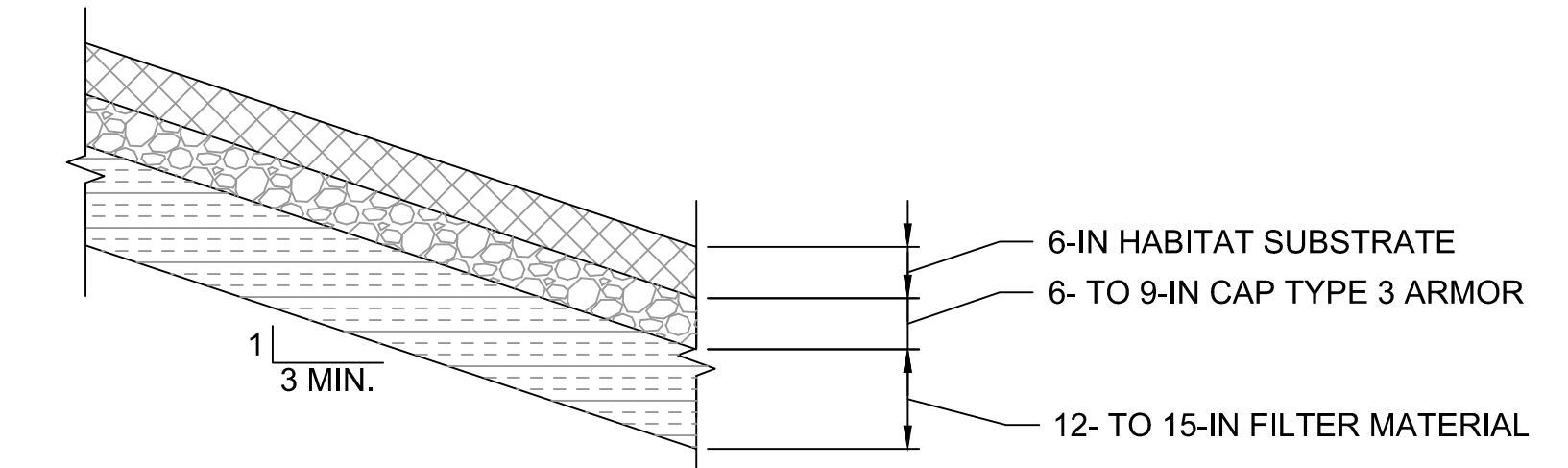
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AT FULL SIZE; IF NOT ONE
INCH SCALE ACCORDINGLY



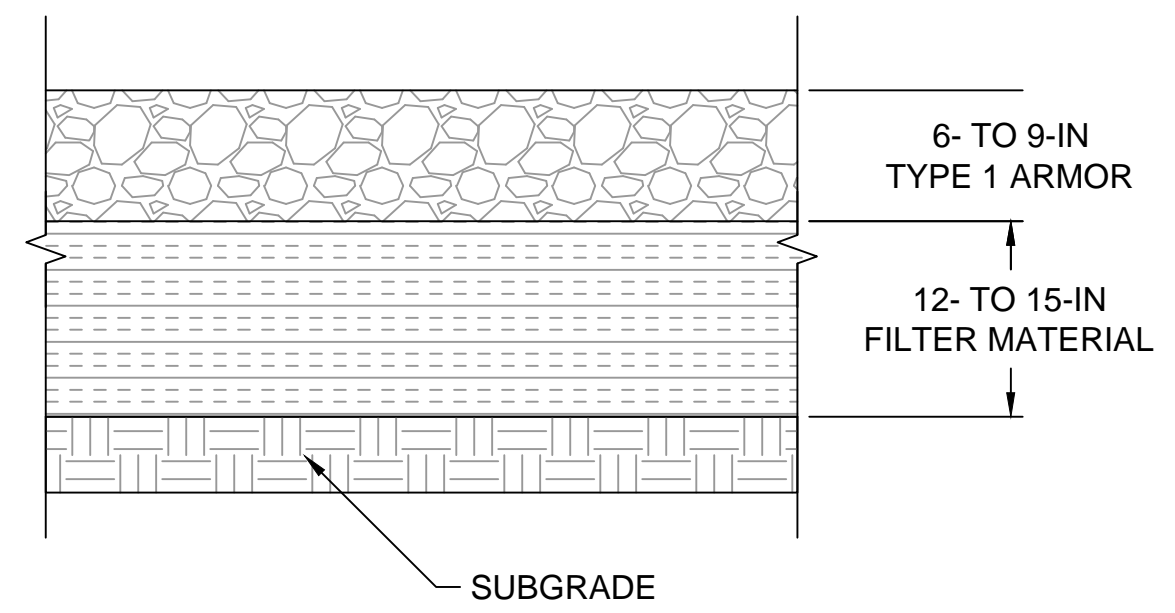
F INTERTIDAL CAP TYPE 1
C-07 TO C-09 SCALE:NTS



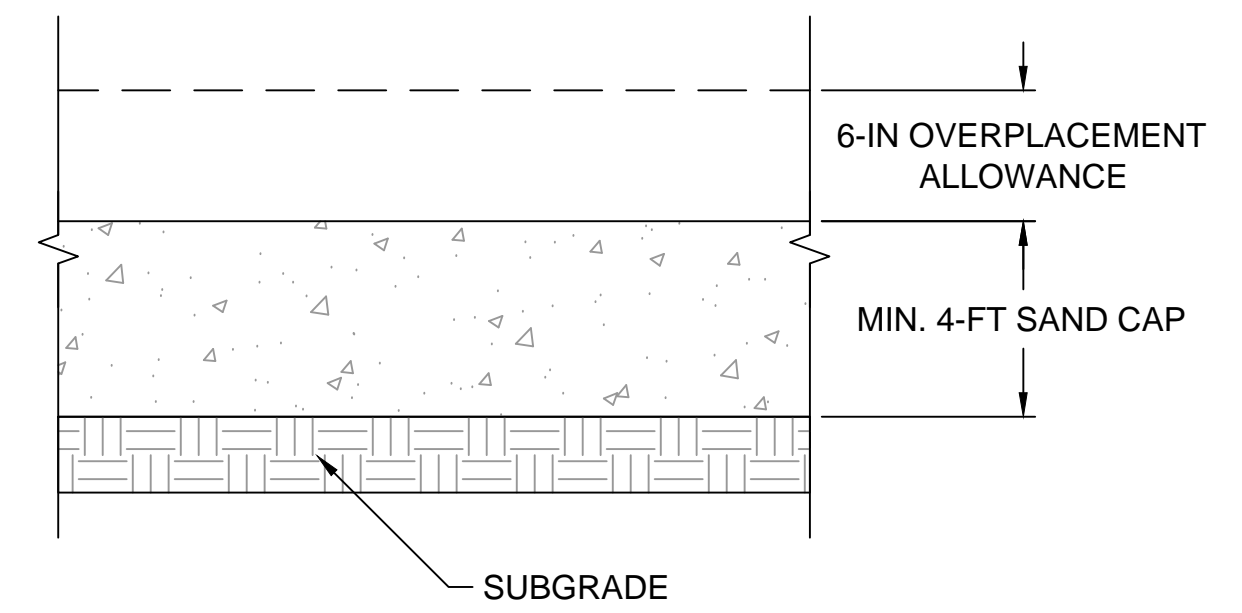
G INTERTIDAL CAP TYPE 2
C-07 TO C-11 SCALE:NTS
NOTE: PLACE NOMINAL 6 INCHES OF HABITAT SUBSTRATE TO FILL INTERSTITIAL SPACES IN TYPE 2 ARMOR.



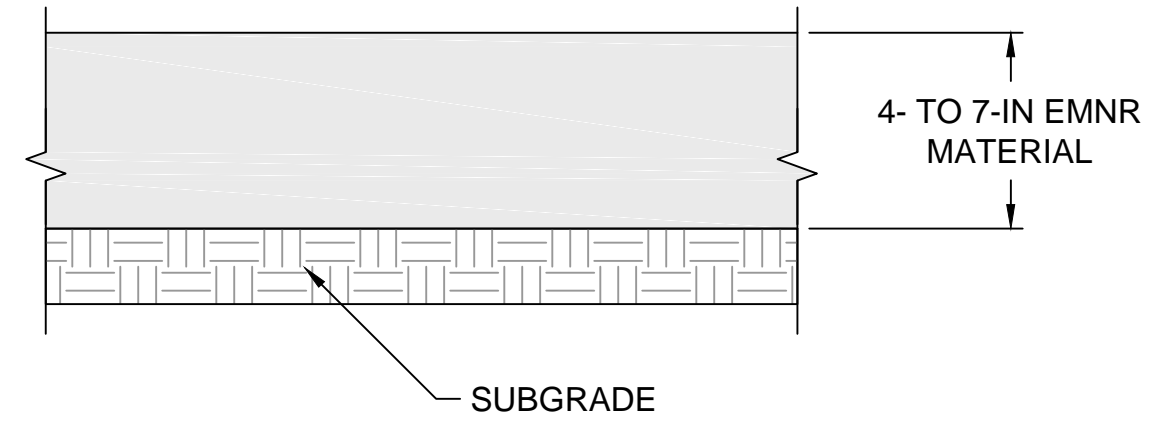
H INTERTIDAL CAP TYPE 3
C-07 TO C-11 SCALE:NTS



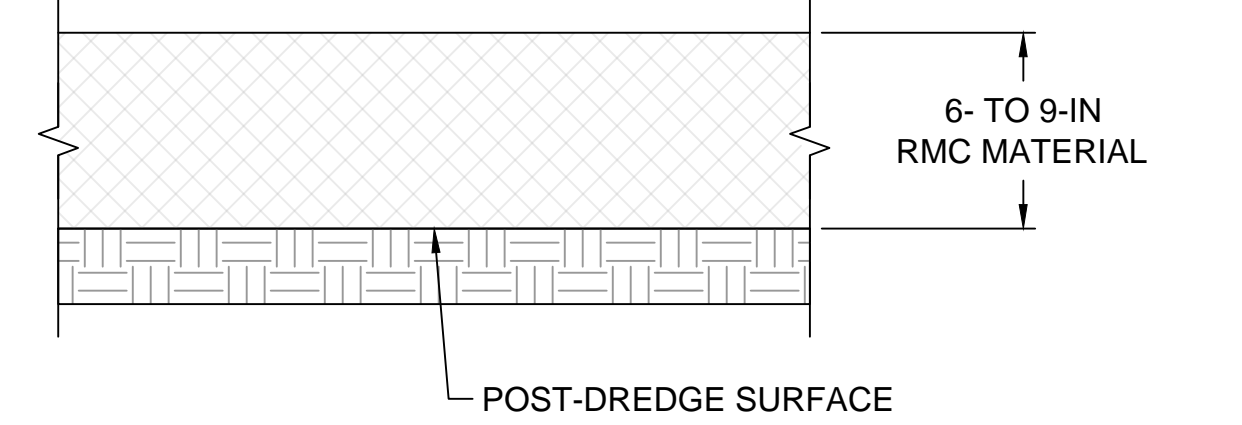
I SMA-1 SUBTIDAL CAP
C-07 SCALE:NTS



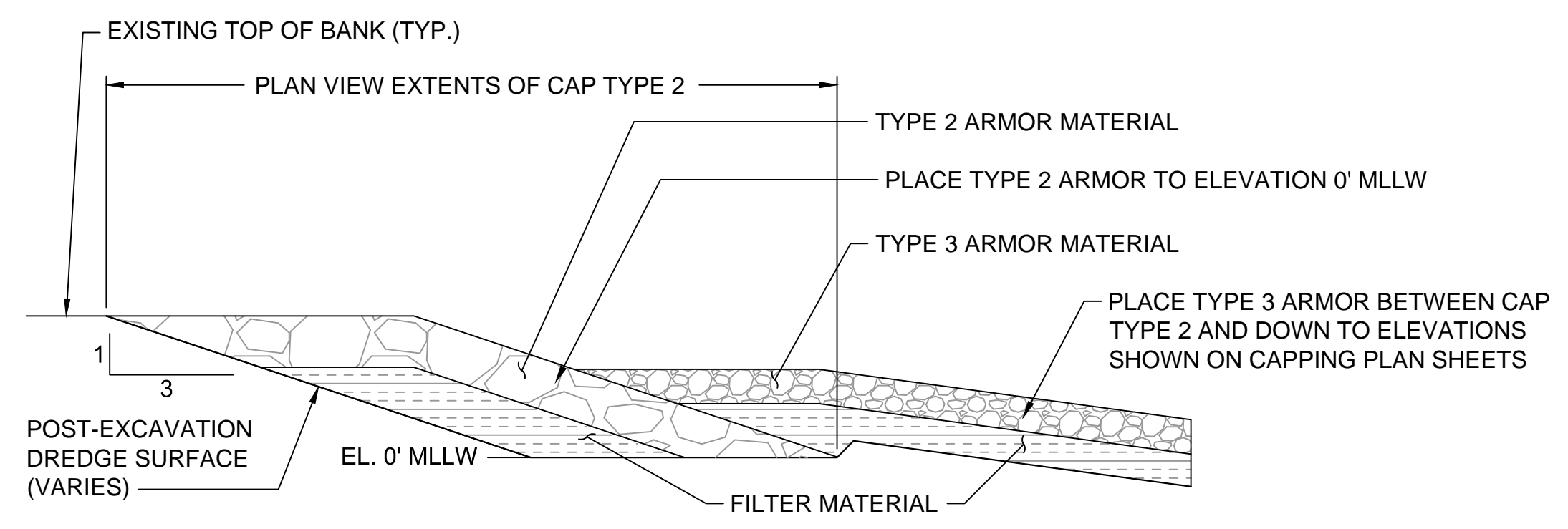
J SMA-2 SUBTIDAL CAP
C-09 TO C-11 SCALE:NTS



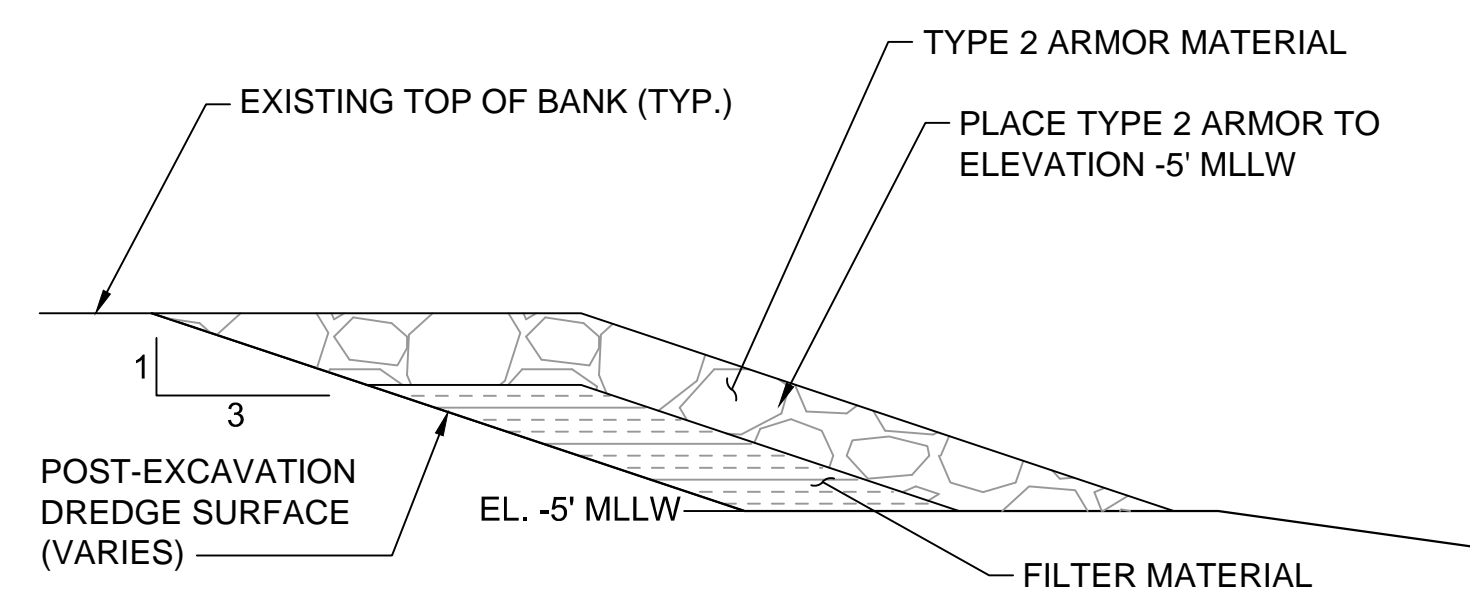
K EMNR MATERIAL PLACEMENT
C-09 TO C-11 SCALE:NTS



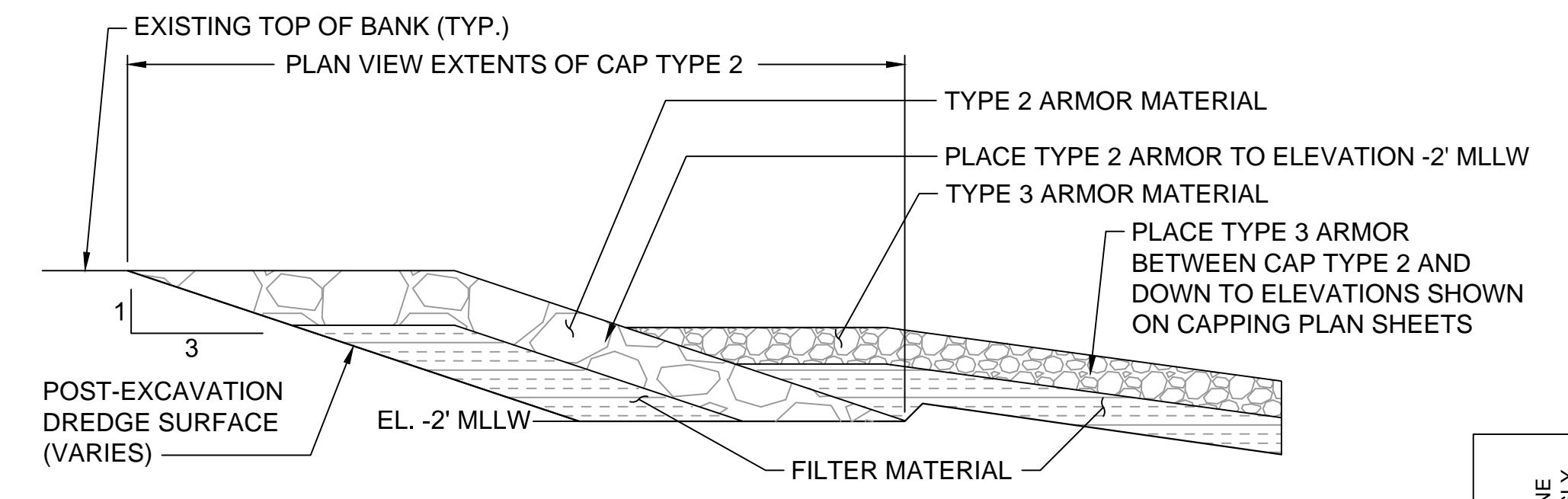
L RMC MATERIAL PLACEMENT
C-07 TO C-11 SCALE:NTS



M ARMOR TOE DETAIL 1
C-07 TO C-11 SCALE:NTS



N ARMOR TOE DETAIL 2
C-07 TO C-11 SCALE:NTS



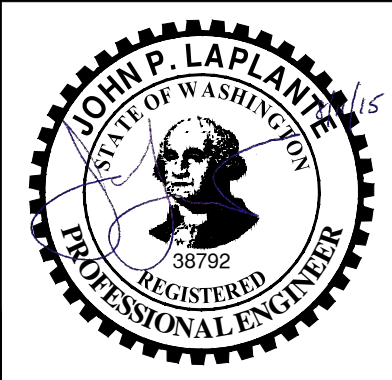
O ARMOR TOE DETAIL 3
C-07 TO C-11 SCALE:NTS

ISSUED FOR CONSTRUCTION

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Aug 11, 2015 9:49am chevett



POPE RESOURCES LP / OPG PROPERTIES LLC



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APPROVED BY: J. LAPLANTE
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PORT GAMBLE BAY CLEANUP

CAP DETAILS

C-17

SHEET NO. 27 OF 27

ONE INCH
AT FULL SIZE; IF NOT ONE
INCH SCALE ACCORDINGLY