# FINAL BID DOCUMENT WHATCOM WATERWAY PHASE 1 CLEANUP

# PORT OF BELLINGHAM

# **DRAWING INDEX**

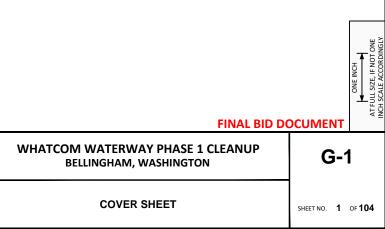
# **VICINITY MAP** BELLINGHAM WASHINGTON WHATCOM WATERWAY SITE 1/3 2/3 SCALE IN MILES NORTH

SHEET SEQUENCE	SHEET	SHEET TITLE	SHEET SEQUENCE	SHEET	SHEET TITLE
1	NUMBER G-1	COVER SHEET	60	NUMBER CU1	WEST CENTRAL WATERFRONT WALL PAVING AND GRADING PLAN
2	G-1 G-2	GENERAL NOTES	61	CU2	MAPLE ST. BULKHEAD PAVING AND GRADING PLAN
3	EC-1	SITE PLAN	62	CU3	CLARIFIER AREA PAVING, GRADING AND DRAINAGE PLAN
4	EC-2	EXISTING CONDITIONS - BST DOCK AREA	63	CU4	PAVING AND GRADING SECTIONS
5	EC-3	EXISTING CONDITIONS - LOG POND AREA	64	CU5	PAVING AND GRADING SECTIONS
6	EC-4	EXISTING CONDITIONS - INNER WATERWAY AREA	65	CU6	PAVING AND GRADING SECTIONS
7	R1	SITE, STRUCTURE AND SHORELINE DEBRIS REMOVAL NOTES	66	CU7	CIVIL UPLAND DETAILS
8	R2	INNER WATERWAY AREA SITE, STRUCTURE AND SHORELINE DEBRIS REMOVAL PLAN	67	CU8	DRAINAGE PROFILES AND SECTIONS
9	R3	LOG POND AREA SITE, STRUCTURE AND SHORELINE DEBRIS REMOVAL PLAN	68	CU9	CIVIL UPLAND DETAILS
10	R4	WEST CENTRAL AREA SITE. STRUCTURE AND SHORELINE DEBRIS REMOVAL PLAN	69	CU10	CIVIL OF DATA DETAILS
11	R5	MAPLE ST. AREA SITE, STRUCTURE AND SHORELINE DEBRIS REMOVAL PLAN	70	E1	ELECTRICAL - OVERALL PLAN, LEGEND & NOTES
12	R6	CLARIFIER AREA SITE, STRUCTURE AND SHORELINE DEBRIS REMOVAL PLAN	71	E2	ELECTRICAL - NORTH SITE PLAN
13	R7	SITE, STRUCTURE AND SHORELINE DEBRIS REMOVAL PHOTOGRAPHS	72	E3	ELECTRICAL - DETAILS
14	R8	SITE, STRUCTURE AND SHORELINE DEBRIS REMOVAL PHOTOGRAPHS	73	E4	ELECTRICAL DETAIL - SOUTH SITE DOCKSIDE BUILDING
15	R9	SITE, STRUCTURE AND SHORELINE DEBRIS REMOVAL PHOTOGRAPHS	74	E5	ELECTRICAL DETAIL -SOUTH SITE FOAM TANK/CATWALK AREA
16	R10	SITE, STRUCTURE AND SHORELINE DEBRIS REMOVAL PHOTOGRAPHS	75	E6	ELECTRICAL DETAILS -SOUTH SITE
17	R11	SITE, STRUCTURE AND SHORELINE DEBRIS REMOVAL PHOTOGRAPHS	76	\$1	GENERAL STRUCTURAL NOTES
18	R12	SITE, STRUCTURE AND SHORELINE DEBRIS REMOVAL PHOTOGRAPHS	77	\$2	GENERAL STRUCTURAL NOTES, ABBREVIATIONS AND SYMBOLS
10	R13	SITE, STRUCTURE AND SHORELINE DEBRIS REMOVAL PHOTOGRAPHS	78	52	OVERALL PLAN
20	R14	SITE, STRUCTURE AND SHORELINE DEBRIS REMOVAL PHOTOGRAPHS	79	\$4 \$4	EAST WATERWAY SHORELINE STRUCTURAL PLAN
21	R15	SITE, STRUCTURE AND SHORELINE DEBRIS REMOVAL PHOTOGRAPHS	80	\$5	WEST CENTRAL WATERFRONT WALL PLAN - 1
22	R16	SITE, STRUCTURE AND SHORELINE DEBRIS REMOVAL PHOTOGRAPHS	81	S6	WEST CENTRAL WATERFRONT WALL PLAN - 2
23	R17	SITE, STRUCTURE AND SHORELINE DEBRIS REMOVAL PHOTOGRAPHS	82	\$7	MAPLE ST. BULKHEAD WALL PLAN
24	R18	TIMBER PIER REMOVAL CROSS SECTION	83	58	EAST CENTRAL WATERFRONT WALL PLAN
25	R19	CLARIFIER REMOVAL CROSS SECTIONS 1	84	\$9	MAPLE ST. BULKHEAD WALL PLAN
26	R20	CLARIFIER REMOVAL CROSS SECTIONS 2	85	\$10	SOUTH SHORELINE MOORING BOLLARD
27	R21	FOAM TANK REMOVAL PLAN AND SECTION	86	\$11	WEST CENTRAL WATERFRONT WALL SECTIONS -1
28	R22	BARGE RAMP REMOVAL PLAN AND SECTION	87	\$12	WEST CENTRAL WATERFRONT WALL SECTIONS -2
29	R23	REMOVAL DETAILS	88	\$13	WEST CENTRAL WATERFRONT WALL SECTIONS -3
30	C-1.1	SITE ACCESS, STAGING AND STOCKPILE PLAN	89	\$14	MAPLE ST. BULKHEAD SECTION
31	C-1.2	EXISTING CONDITIONS FORMER GP WEST PROPERTY - SITE ACCESS, STAGING AND STOCKPILE AREA	90	\$15	EAST CENTRAL WATERFRONT WALL SECTION
32	C-1.3	EXISTING CONDITIONS CENTRAL WATERFRONT - SITE ACCESS, STAGING AND STOCKPILE AREA	91	\$16	MAPLE ST. BULKHEAD DETAILS - 1
33	C-1.4	STAGING AND STOCKPILE AREA CONCEPTUAL LAYOUT	92	\$17	MAPLE ST. BULKHEAD DETAILS - 2
34	C-2	BST DREDGING PLAN	93	\$18	WEST CENTRAL WATERFRONT WALL DETAILS
35	C-3	INNER WATERWAY DREDGING PLAN	94	S19	EAST CENTRAL WATERFRONT WALL
36	C-4	BST CAPPING AND RESIDUALS MANAGEMENT COVER PLAN	95	S20	DETAIL SECTIONS 1
37	C-4.1	BST CAP TYPE PLAN	96	\$21	DETAIL SECTIONS 2
38	C-5	INNER WATERWAY CAPPING PLAN	97	S22	WEST MAPLE ST. WALL PLAN AND SECTION
39	C-5.1	INNER WATERWAY CAP TYPE PLAN	98	S23	MAPLE ST. FENDER SYSTEM PLAN AND ELEVATION
40	C-6	LOG POND CAPPING PLAN	99	S24	MAPLE ST. FENDER SYSTEM SECTION
41	C-6.1	LOG POND CAP TYPE PLAN	100	S25	MAPLE ST. FENDER SYSTEM - DETAILS 1
42	C-7	BST DREDGING CROSS-SECTIONS	101	S26	MAPLE ST. FENDER SYSTEM - DETAILS 2
43	C-8	BST DREDGING CROSS-SECTIONS	102	S27	MOORING CLEAT DETAILS
44	C-9	INNER WATERWAY DREDGING CROSS-SECTIONS	103	S28	MONOPILE DOLPHIN -ELEVATION
45	C-10	INNER WATERWAY DREDGING CROSS-SECTIONS	104	S29	MONOPILE DOLPHIN - DETAILS
46	C-11	INNER WATERWAY CAPPING CROSS-SECTIONS			
47	C-12	INNER WATERWAY CAPPING CROSS-SECTIONS			
48	C-13	LOG POND CAPPING CROSS-SECTIONS			
49	C-14	LOG POND CAPPING CROSS-SECTIONS			
50	C-15	TESC DETAILS 1 OF 2			
51	C-16	TESC DETAILS 2 OF 2			
52	C-17	OFFLOADING AND ENVIRONMENTAL SEDIMENT MANAGEMENT DETAILS			
53	C-18	BST DREDGING DETAILS			
54	C-19	BST RESIDUALS MANAGEMENT COVER PLACEMENT SECTIONS AND DETAILS			
55	C-20	INNER WATERWAY DREDGING DETAILS			· · · · · · · · · · · · · · · · · · ·
56	C-21	CAPPING DETAILS			
57	C-22	CAPPING TRANSITION DETAILS			la l
58	C-23	DREDGING CONTROL POINT TABLES			1
59	C-24	CAPPING CONTROL POINT TABLES			FINAL BID DOCUMENT





	WWW.							
	THE WASH	REV	DATE	BY	APP'D	DESCRIPTION	DESIGNED BY: M	. WOLTN
5							DRAWN BY: D.	HOLME
	N & A						CHECKED BY: T.	WANG
	A the year	>					APPROVED BY: T.	WANG
	42344 PEGISTERED S						SCALE: AS	S NOTED
00	STONALENG.						DATE: M	AY 2013
	5120/13							



### GENERAL NOTES:

- 1. DETAILED REQUIREMENTS FOR ACTIVITIES ARE DESCRIBED IN THE SPECIFICATIONS. FOR CONVENIENCE, CERTAIN EXTRACTS ARE REPRODUCED BELOW AND ON FOLLOWING SHEETS.
- 2. SCALES INDICATED ON DRAWINGS ARE FULL SIZE (22"x34") DRAWINGS
- BATHYMETRIC SURVEY PROVIDED BY WILSON SURVEY/ENGINEERING. DATED JUNE, 2008.
- 4. TOPOGRAPHY SURVEY COMPLETED BY DAVID EVANS AND ASSOCIATES IN 2009 FOR UPLAND AREAS TO THE EAST OF THE INNER WATERWAY.
- 5. PHOTOGRAMMETRIC SURVEY (SPOT ELEVATIONS) AND UPLAND LINEWORK COMPLETED BY WALKER AND ASSOCIATES IN SEPTEMBER 2004 FOR UPLAND AREAS TO THE WEST OF THE INNER WATERWAY, AT LOG POND AND BST.
- 6. ADDITIONAL UPLAND SURVEY INFORMATION WAS COMPLETED BY WILSON SURVEY/ENGINEERING IN MARCH 2013 FOR LOG POND, SOUTH SHORELINE, AND CENTRAL WATERFRONT AREAS AND PROVIDED IN MLLW.
- 7. AERIAL IMAGE OBTAINED FROM NAIP 2011 IMAGE DATABASE, AS PROVIDED BY THE USDA.
- 8. EELGRASS BED LOCATIONS OBTAINED FROM SURVEY COMPLETED BY WILSON SURVEY/ENGINEERING IN SEPTEMBER AND OCTOBER 2009.
- 9. CONTRACTOR SHALL NOT DAMAGE EELGRASS OUTSIDE THE LIMITS OF WORK SHOWN DURING COMPLETION OF THE WORK.
- 10. CONTRACTOR SHALL NOT RELY ON AERIAL IMAGE FOR EXACT LOCATION OF STRUCTURES. ALL LOCATIONS OF UPLAND AND IN-WATER STRUCTURES SHALL BE VERIFIED BY THE CONTRACTOR IN THE FIELD.
- 11. INFORMATION DISPLAYED, INCLUDING PROPERTY BOUNDARIES, IS BASED ON AVAILABLE RECORDS. THE CONTRACTOR IS TO VERIFY ALL SITE AND UTILITY INFORMATION PRIOR TO DEMOLITION OR CONSTRUCTION. ANY DISCREPANCIES SHALL BE REPORTED TO THE ENGINEER PRIOR TO COMMENCING WORK.
- 12. CONTRACTOR SHALL NOTIFY ALL UTILITY COMPANIES PRIOR TO COMMENCING WORK IN ACCORDANCE WITH STATE AND LOCAL REQUIREMENTS.
- 13. THE CONTRACTOR SHALL PERFORM ALL WORK IN ACCORDANCE WITH FEDERAL, STATE, AND LOCAL REGULATIONS AND IN ACCORDANCE WITH PROJECT PERMITS
- 14. THE CONTRACTOR SHALL COORDINATE ALL ACTIVITES WITH THE ENGINEER. LOCATION OF THE CONTRACTOR'S SITE OFFICE AND MATERIAL STORAGE SHALL BE APPROVED BY ENGINEER.
- PRIOR TO ANY CLEARING, DEMOLITION AND SHORELINE DEBRIS REMOVAL ACTIVITIES, CONTRACTOR SHALL PROVIDE AND INSTALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES IN ACCORDANCE WITH THESE DRAWINGS, SPECIFICATIONS AND PERMIT REQUIREMENTS.

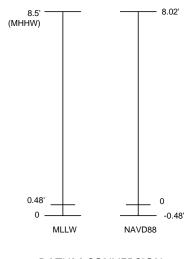
### DATUM INFORMATION:

- 1. HORIZONTAL DATUM: WASHINGTON STATE PLANE NORTH, NAD 83, FEET.
- IN-WATER ELEVATIONS ARE IN FEET MLLW, BASED ON NOAA/NOS BENCHMARK 9449211 (BELLINGHAM, WA)
- 3. TO CONVERT ELEVATIONS FROM NAVD88 TO MLLW; ADD +0.48 FEET TO NAVD88 ELEVATIONS
- 4. MEAN HIGHER HIGH WATER IS EQUAL TO 8.5 FT BASED ON MLLW DATUM (8.02 FT BASED ON NAVD88 DATUM)

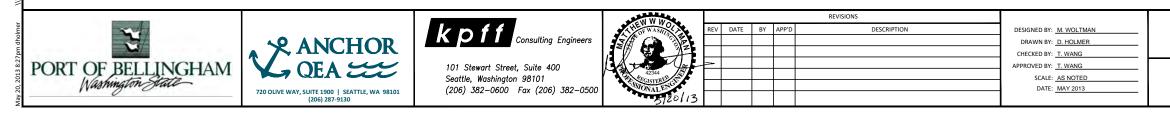
- PRIOR TO SITE DEMOLITION, THE CONTRACTOR SHALL MARK ITEMS TO BE PROTECTED WITH TAPE OR MARKING PAINT. SITE DEMOLITION SHALL NOT PROCEED UNTIL MARKING IS REVIEWED AND APPROVED BY THE ENGINEER.
- 17. UNLESS NOTED OTHERWISE, ALL DEMOLISHED STRUCTURES MATERIAL AND DEBRIS SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE DISPOSED OF AT AN APPROVED DISPOSAL FACILITY OR RECYCLING FACILITY IN ACCORDANCE WITH APPLICABLE FEDERAL AND STATE LAWS AND REGULATIONS GOVERNING DISPOSAL.
- 18. IN-WATER WORK IS SUBJECT TO FISHERIES CLOSURE WINDOW - ALLOWABLE IN-WATER WORK DATES ARE PROVIDED IN THE SPECIFICATIONS.
- CONTRACTOR SHALL PROVIDE THE ENGINEER WITH A DETAILED CONSTRUCTION WORK PLAN PRIOR TO COMMENCING WORK. ADDITIONAL SUBMITTAL REQUIREMENTS ARE PROVIDED IN THE SPECIFICATIONS
- 20. PILES SHALL BE REMOVED COMPLETELY UNLESS OTHERWISE NOTED ON THE PLANS. PILES THAT BREAK AND CANNOT BE REMOVED COMPLETELY SHALL BE CUT AT OR NEAR (WITHIN 2 FEET) THE POST-DREDGE MUDLINE.
- 21. CONTRACTOR SHALL PROTECT IN-PLACE ALL STRUCTURES, UTILITIES, AND OBJECTS NOT CALLED OUT AS BEING DEMOLISHED ON THE PLANS. ANY DAMAGE TO ITEMS NOT BEING DEMOLISHED SHALL BE REPAIRED BY THE CONTRACTOR AT HIS EXPENSE.
- 22. CONTRACTOR SHALL PROTECT ALL EXISTING MONITORING WELLS EXCEPT THOSE IDENTIFIED FOR REMOVAL.
- 23. EXISTING FLOATS AND GANGWAY RAMPS AT COLONY WHARF AND MERIDIAN PACIFIC TO BE REMOVED BY OTHERS PRIOR TO START OF WORK AND REPLACED BY OTHERS AFTER COMPLETION OF WORK.

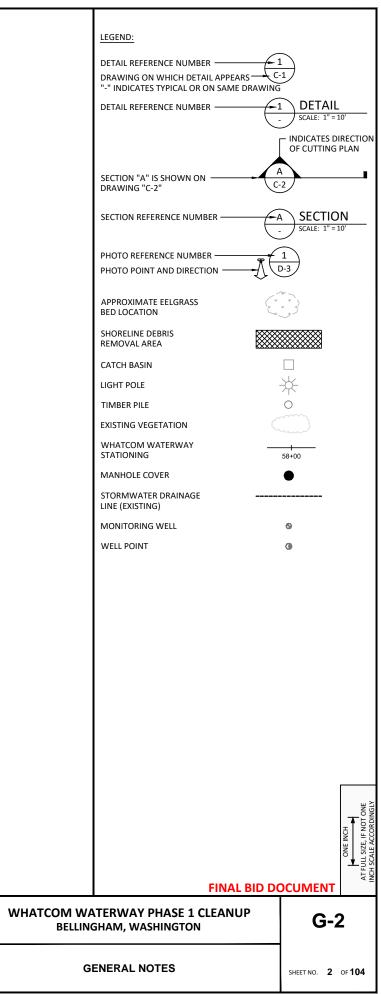
### ACRONYMS:

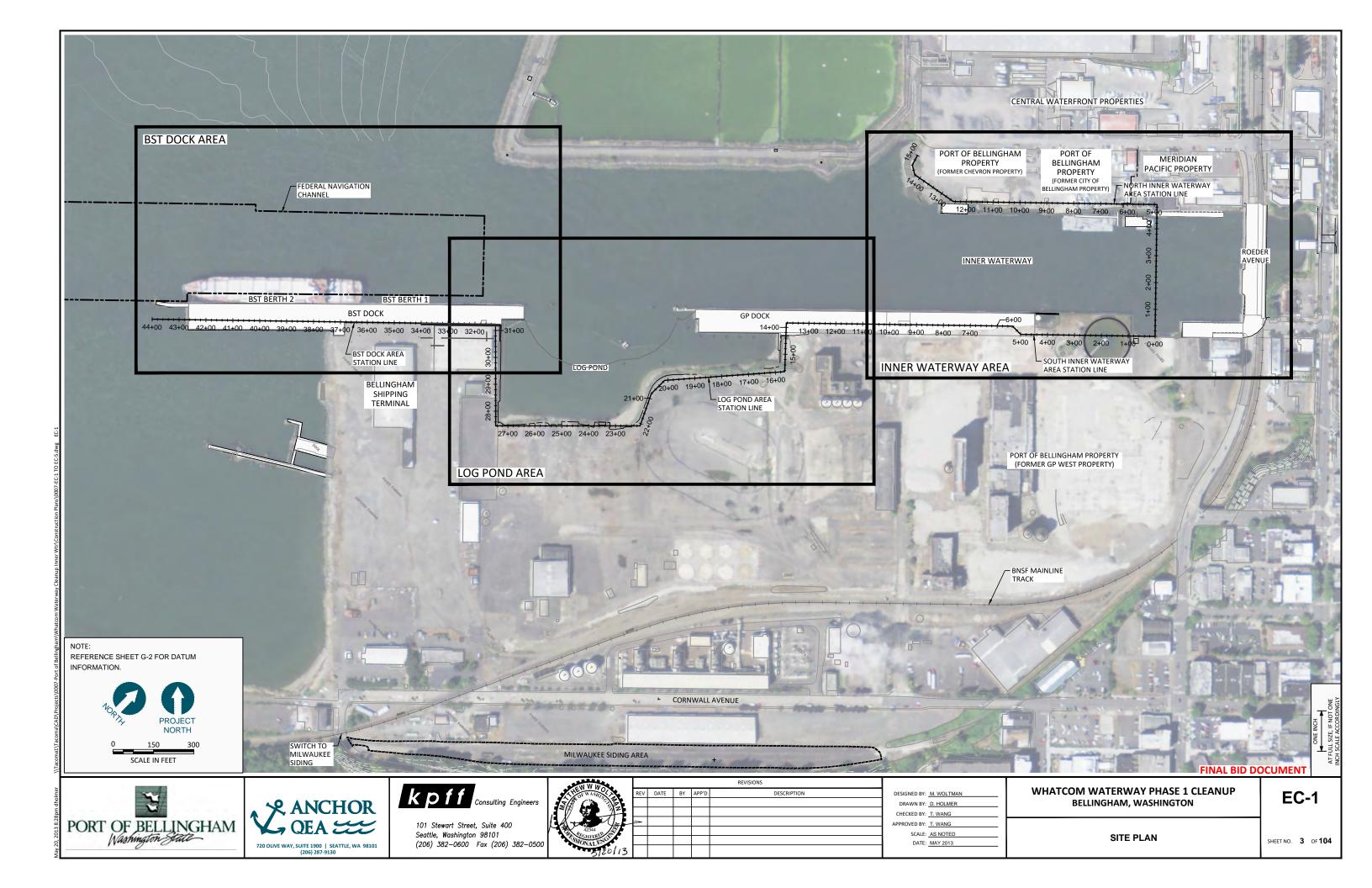
- ASB AERATED STABILIZATION BASIN
- BST BELLINGHAM SHIPPING TERMINAL
- CDF CONTROLLED DENSITY FILL
- E EASTING
- EL ELEVATION
- FRP FIBERGLASS REINFORCED PIPE
- GP GEORGIA PACIFIC = FORMER SITE NOW OWNED BY PORT OF BELLINGHAM
- IE INVERT ELEVATION
- MLLW MEAN LOWER LOW WATER
- N NORTHING NAIP NATIONAL AGRICULTURE IMAGERY PROGRAM
- NTS NOT TO SCALE
- SO FT SOUARE FEET
- USDA UNITED STATES DEPARTMENT OF AGRICULTURE
- NOS NATIONAL OCEAN SERVICE
- NAD NORTH AMERICAN DATUM
- NAVD NORTH AMERICAN VERTICAL DATUM
- WSDOT WASHINGTON DEPARTMENT OF TRANSPORTATION

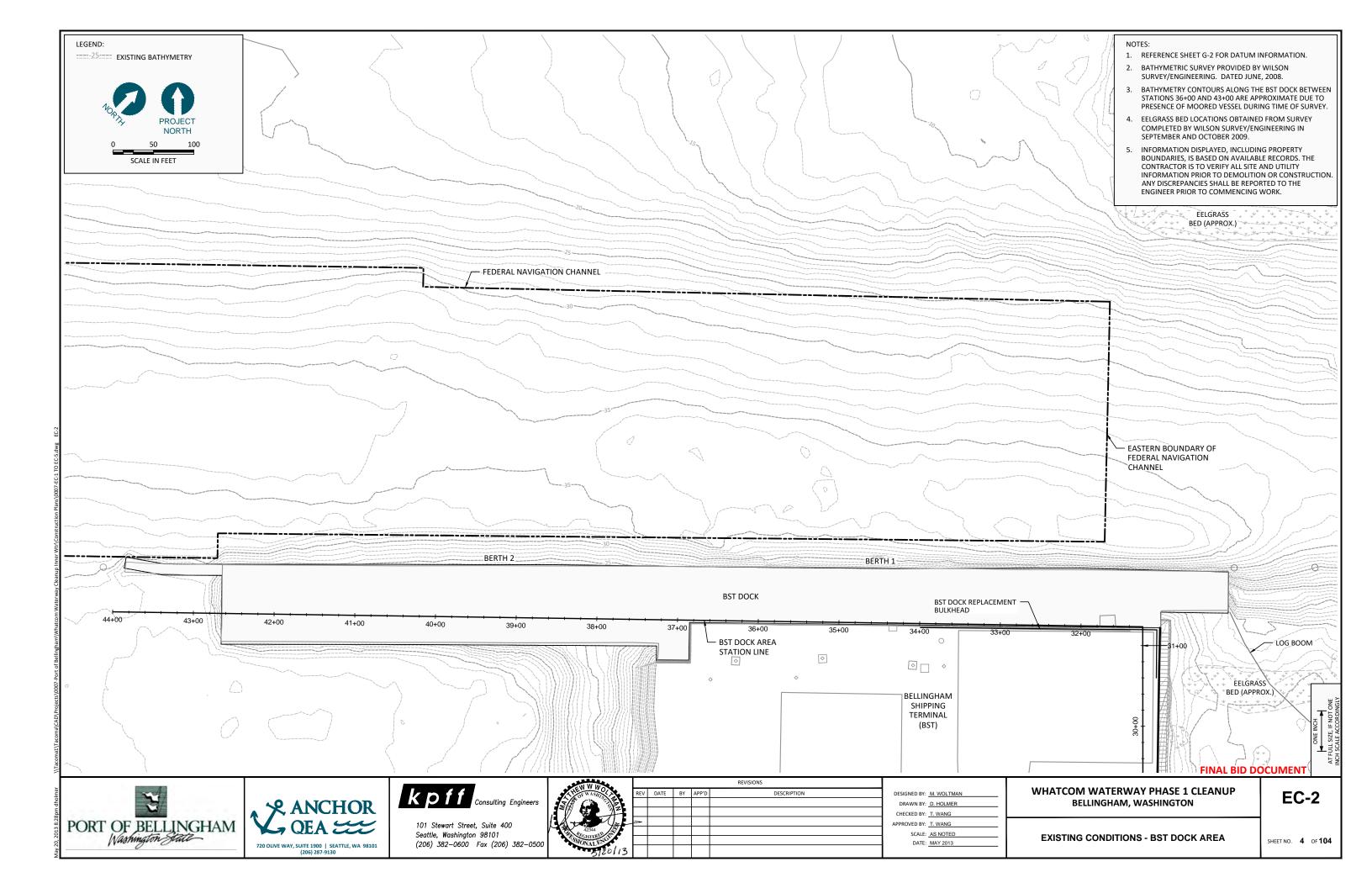


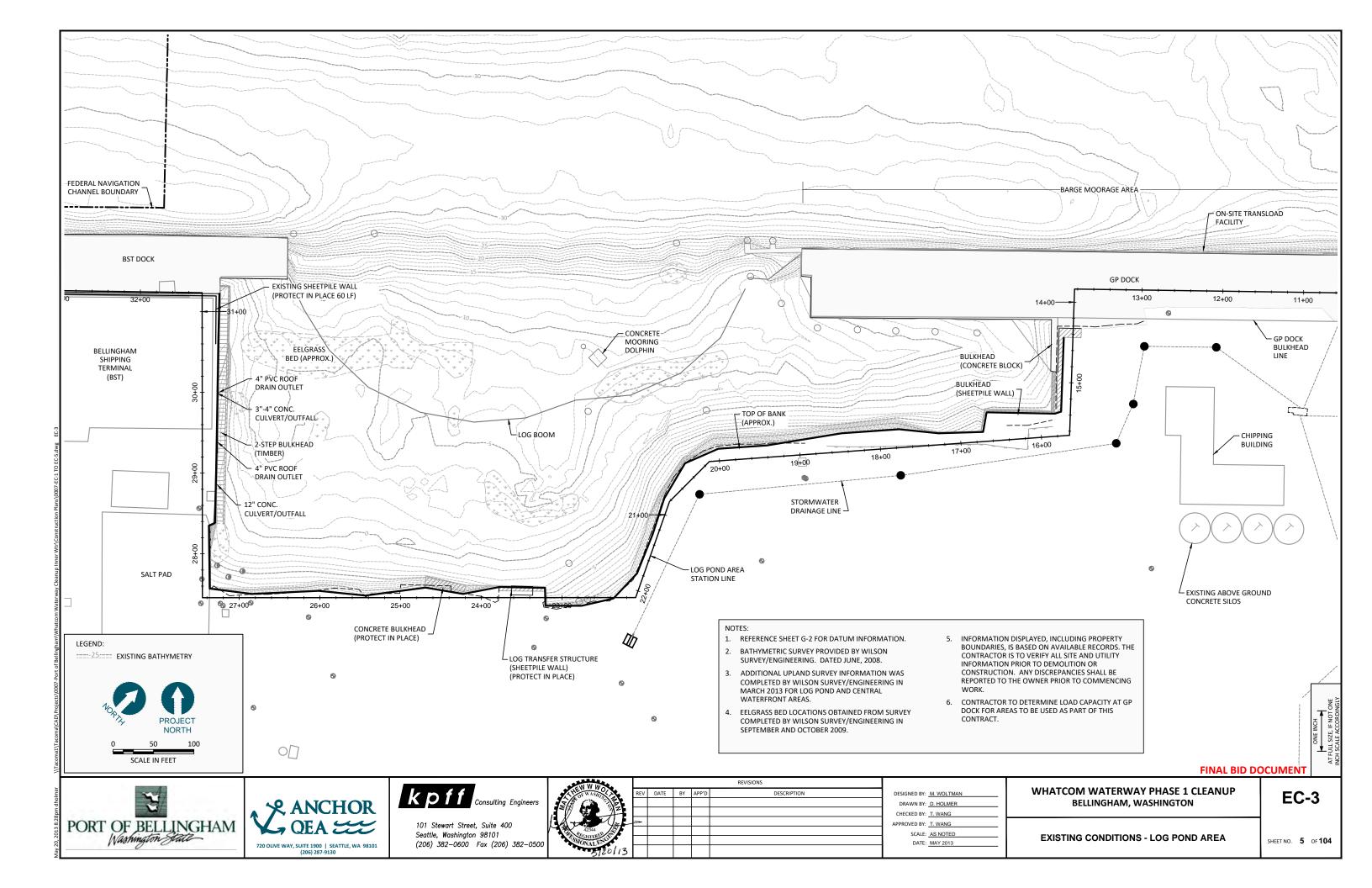


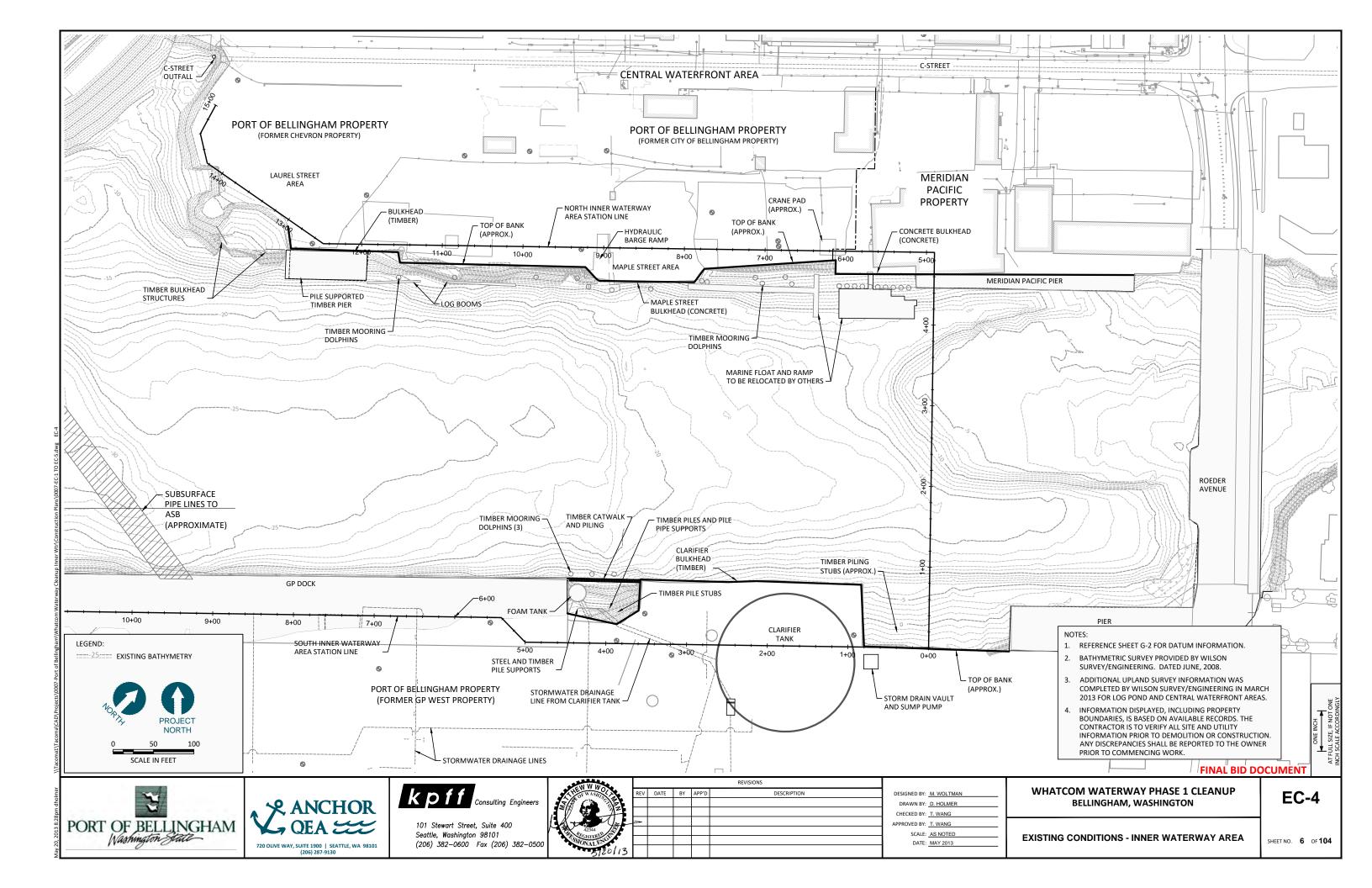












# SITE, STRUCTURE AND SHORELINE DEBRIS REMOVAL NOTES:

- ALL WORK SHALL CONFORM TO THESE PLANS AND SPECIFICATIONS. ALL SITE, STRUCTURE AND SHORELINE DEBRIS REMOVAL WORK SHALL BE PERFORMED IN STRICT ACCORDANCE WITH THE PROJECT PERMITS AND ALL FEDERAL, STATE, AND LOCAL REQUIREMENTS PERTAINING TO REMOVAL AND DISPOSAL.
- CONTRACTOR SHALL PROVIDE THE ENGINEER WITH DETAILED REMOVAL WORK PLANS FOR BOTH THE SHORELINE DEBRIS AND SITE AND STRUCTURE REMOVAL PRIOR TO COMMENCING WORK, SEE SPECIFICATIONS.
- 3. THE CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS OF EXISTING STRUCTURES AND OTHER FEATURES THAT MAY IMPACT THE WORK AND IMMEDIATELY BRING ANY CONFLICTS TO THE ENGINEER'S ATTENTION.
- 4. THE CONTRACT DOCUMENTS AND SPECIFICATIONS REPRESENT THE SCOPE OF WORK. UNLESS OTHERWISE SHOWN THEY DO NOT INDICATE THE METHOD OF REMOVAL. THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE WORK AND HE SHALL BE SOLELY RESPONSIBLE FOR ALL REMOVAL MEANS, METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES.
- 5. THE CONTRACTOR SHALL KEEP ALL STREETS AND VEHICULAR TRAFFIC AREAS CLEAN.
- 6. CONTRACTOR IS RESPONSIBLE FOR ANY TRAFFIC CONTROLS REQUIRED DURING THE DURATION OF THIS PROJECT, SEE SPECIFICATIONS.
- EXISTING SOILS WITHIN THE PROJECT AREA MAY CONTAIN CONTAMINANTS, SEE SPECIFICATIONS FOR EXCAVATION, STOCKPILING, TESTING AND BACKFILLING REQUIREMENTS.
- 8. THE CONTRACTOR SHALL INSTALL AND MAINTAIN PERIMETER FENCING AS REQUIRED TO MAINTAIN SECURITY OF SITE.
- 9. CONTRACTOR SHALL PROTECT-IN-PLACE ALL STRUCTURES, UTILITIES AND OBJECTS NOT CALLED OUT AS BEING REMOVED ON THE PLANS. ANY DAMAGE TO ITEMS NOT BEING REMOVED SHALL BE REPAIRED BY THE CONTRACTOR AT HIS EXPENSE .
- 10. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO STRICTLY CONTAIN THE SITE, STRUCTURE AND SHORELINE DEBRIS REMOVAL WITHIN THE LIMITS SHOWN ON THE DRAWINGS. ANY DAMAGE TO UTILITIES, OTHER FACILITIES, OR EQUIPMENT DUE TO THE CONTRACTOR'S NEGLIGENCE SHALL BE PROMPTLY REPAIRED AT HIS EXPENSE. THIS INCLUDES ITEMS OUTSIDE THE WORK AREA THAT ARE DAMAGED BY CONSTRUCTION ACTIVITIES DURING EXECUTION OF THIS CONTRACT.
- 11. ALL LOCATIONS OF EXISTING UNDERGROUND UTILITIES SHOWN HEREIN HAVE BEEN ESTABLISHED BY FIELD OBSERVATIONS OR OBTAINED FROM REVIEW OF AVAILABLE RECORDS AND SHOULD, THEREFORE, BE CONSIDERED APPROXIMATE ONLY AND NOT NECESSARILY COMPLETE. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO INDEPENDENTLY VERIFY THE ACCURACY OF ALL UTILITY LOCATIONS SHOWN AND TO FURTHER DISCOVER AND AVOID OTHER UTILITIES NOT SHOWN HEREIN WHICH MAY BE AFFECTED BY THE IMPLEMENTATION OF THIS PLAN. THE CONTRACTOR SHALL BRING ANY CONFLICTS BETWEEN EXISTING UTILITIES AND NEW WORK TO THE ENGINEERS ATTENTION.
- 12. THE CONTRACTOR SHALL NOTIFY ALL UTILITY COMPANIES PRIOR TO COMMENCING WORK IN ACCORDANCE WITH STATE AND LOCAL REQUIREMENTS.
- 13. DOLPHINS AND PILES CALLED OUT ON THE PLANS TO BE REMOVED SHALL BE PULLED COMPLETELY UNLESS OTHERWISE NOTED ON THE PLANS. PILES THAT BREAK AND CANNOT BE PULLED COMPLETELY OR CALLED OUT ON THE PLANS AS BEING CUT SHALL BE CUT AT THE MUDLINE OR AT A MAXIMUM OF 12-INCHES ABOVE THE MUDLINE, SEE SPECIFICATIONS.
- 14. EXTENT OF DEBRIS REMOVAL AND CLEAR AND GRUB VEGETATION IS APPROXIMATE AND IS TO BE VERIFIED BY THE ENGINEER PRIOR TO COMPLETION OF WORK. SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION.
- 15. THE INTENT OF THE SITE, STRUCTURE AND SHORELINE DEBRIS REMOVAL PLANS AND PHOTOS ARE TO SHOW GENERAL SCOPE OF ITEMS TO BE REMOVED. THE PHOTOS ARE FOR REFERENCE ONLY AND HIGHLIGHT ITEMS IN THE FOREGROUND TO BE REMOVED. ITEMS IN THE BACKGROUND THAT ARE TO BE REMOVED ARE NOT NECESSARILY IDENTIFIED. THE CONTRACTOR SHALL VISIT THE SITE AND SURVEY THE SCOPE OF REMOVAL PRIOR TO SUBMITTING A BID.

- 16. PRIOR TO SITE, STRUCTURE AND SHORELINE DEBRIS REMOVAL, THE CONTRACTOR SHALL MARK ITEMS TO BE PROTECTED WITH TAPE OR MARKING PAINT. SITE, STRUCTURE AND SHORELINE DEBRIS REMOVAL SHALL NOT PROCEED UNTIL MARKING IS REVIEWED AND APPROVED BY THE ENGINEER.
- 17. UNLESS NOTED OTHERWISE, ALL REMOVED STRUCTURES MATERIAL AND DEBRIS SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE DISPOSED OF AT AN APPROVED DISPOSAL FACILITY OR RECYCLING FACILITY IN ACCORDANCE WITH APPLICABLE FEDERAL AND STATE LAWS AND REGULATIONS GOVERNING DISPOSAL.
- 18. ALL DIMENSIONS OF DEMOLISHED STRUCTURES ARE APPROXIMATE AND ARE FOR REFERENCE ONLY.
- PRIOR TO COMMENCING DEMOLITION ACTIVITIES CONTRACTOR SHALL IMPLEMENT TEMPORARY EROSION AND SEDIMENTATION CONTROLS. NO DEMOLITION MATERIALS OR DEBRIS SHALL BE ALLOWED TO ENTER THE WATERWAY, SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION.
- 20. SEE ELECTRICAL SHEETS FOR ADDITIONAL DEMOLITION ITEMS.
- 21. UNLESS SPECIFICALLY NOTED "REMOVE" INCLUDES COMPLETE REMOVAL AND SATISFACTORY RECYCLING OR DISPOSAL.
- 22. WHERE EXISTING STRUCTURES EXTEND BELOW THE WATERLINE ALONG THE NORTH SHORELINE THE STRUCTURES SHALL BE CUT AT THE EXISTING MUDLINE OR AT A MAXIMUM OF 12-INCHES ABOVE THE MUDLINE.
- 23. ALONG THE SOUTH SHORELINE EXISTING STRUCTURES AND THEIR ASSOCIATED PILES LOCATED WITHIN THE DREDGE SLOPE SHALL BE CUT AT THE FACE OF THE DREDGE SLOPE UNLESS OTHERWISE NOTED ON THE PLANS. THE PORTION OF STRUCTURE BELOW THE FACE OF THE DREDGE SLOPE WILL REMAIN IN PLACE.
- 24. UPLAND SITE ITEMS, STRUCTURES AND PILES SHALL BE EITHER REMOVED IN THEIR ENTIRETY, OR, WHERE THEY EXTEND 2-FEET BELOW EXISTING GRADE, SHALL BE CUT 2-FEET BELOW EXISTING GRADE AND REMOVED UNLESS OTHERWISE NOTED ON THE PLANS.
- 25. SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION AND REQUIREMENTS FOR CLEARING AND GRUBBING AND SITE, STRUCTURAL, AND SHORELINE DEBRIS REMOVAL.

### SOILS:

SEE THE GEOTECHNICAL REPORT BY ANCHOR QEA, DATED NOVEMBER, 2012 FOR COMPLETE INFORMATION

SEE NOTE 14

# SITE, STRUCTURE AND SHORELINE DEBRIS REMOVAL LEGEND:

×××××××××××



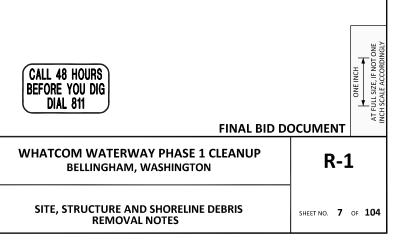
SITE AND STRUCTURE REMOVAL

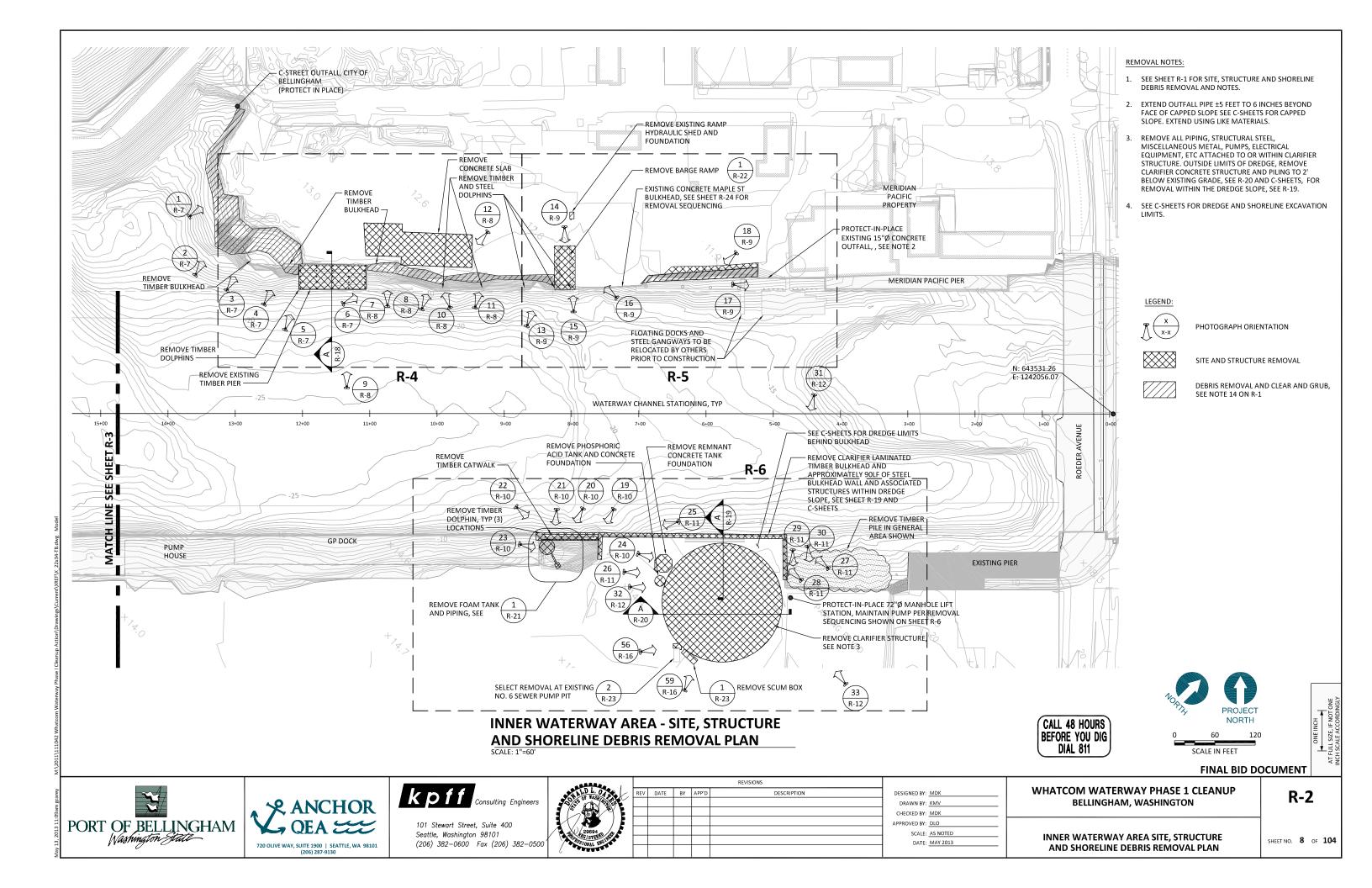
APPROXIMATE REMOVAL BOUNDARY NOTE: REMOVAL BOUNDARY ILLUSTRATES APPROXIMATE EXTENTS OF ABOVE WATERLINE REMOVAL ITEMS. ADDITIONAL SITE, STRUCTURE AND SHORELINE DEBRIS REMOVAL IS REQUIRED BELOW THE WATERLINE, SEE NOTE 15 AND THE SPECIFICATIONS.

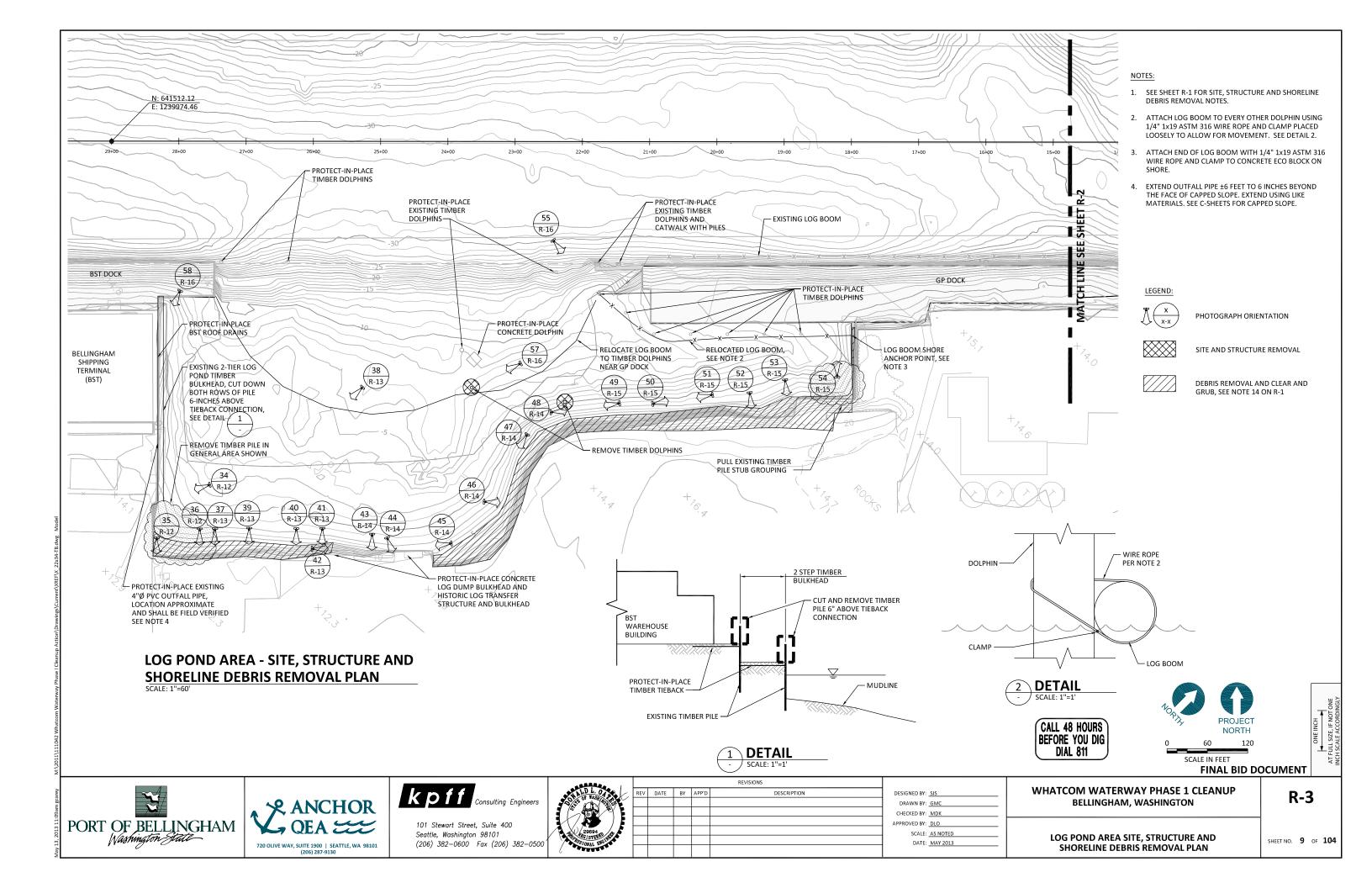
DEBRIS REMOVAL AND CLEAR AND GRUB.

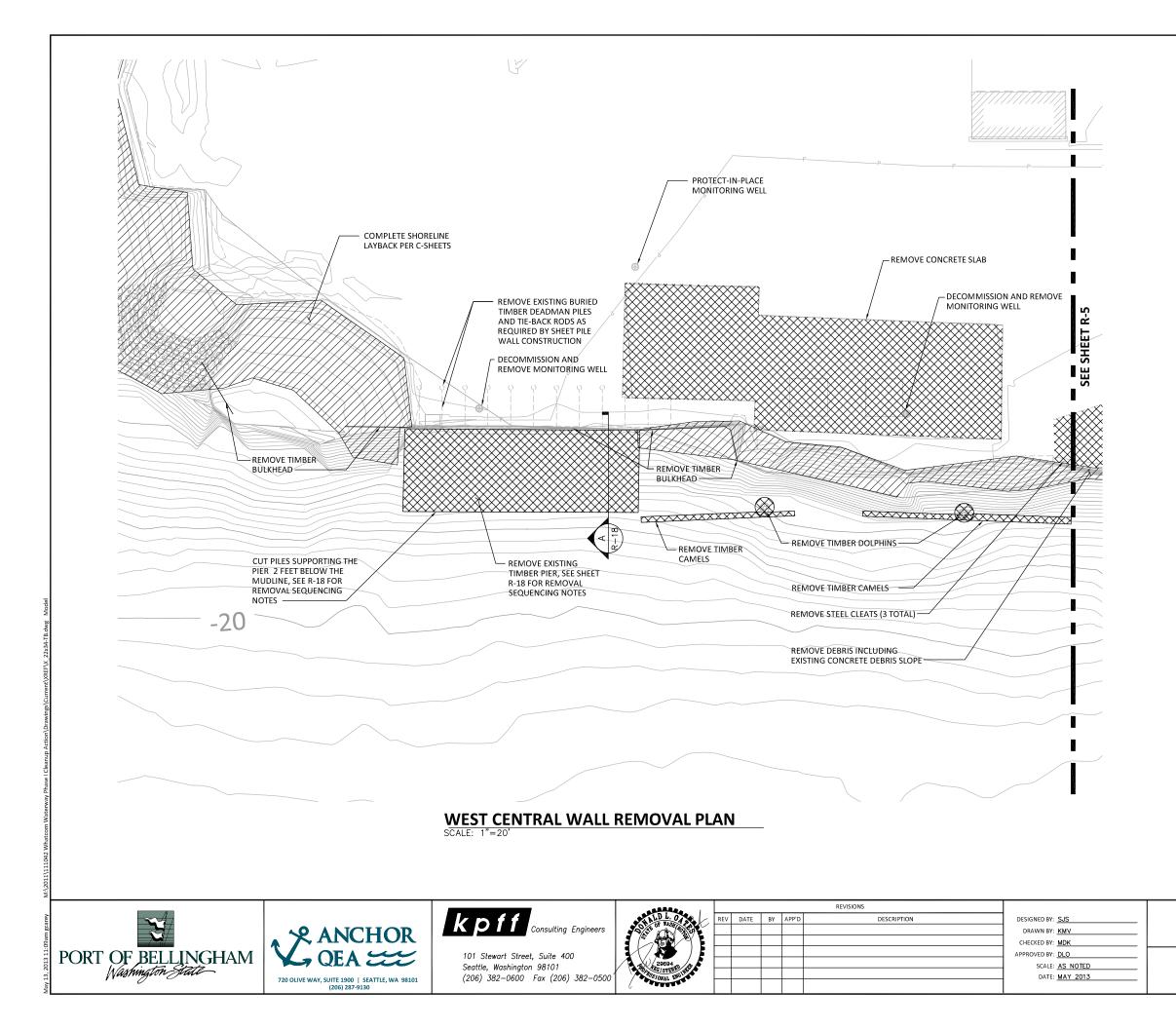


	REVISIONS		
20004 20	REV DATE BY APP'D DESCRIPTION   Image:	DESIGNED BY: SIS   DRAWN BY: KMV   CHECKED BY: MDK   APPROVED BY: DLO   SCALE: AS NOTED   DATE: MAY 2013	



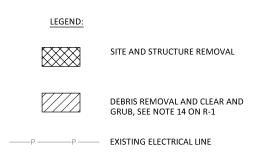


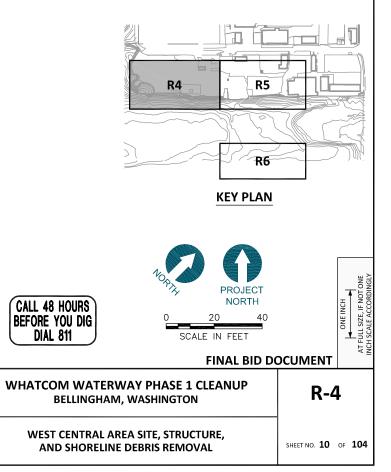


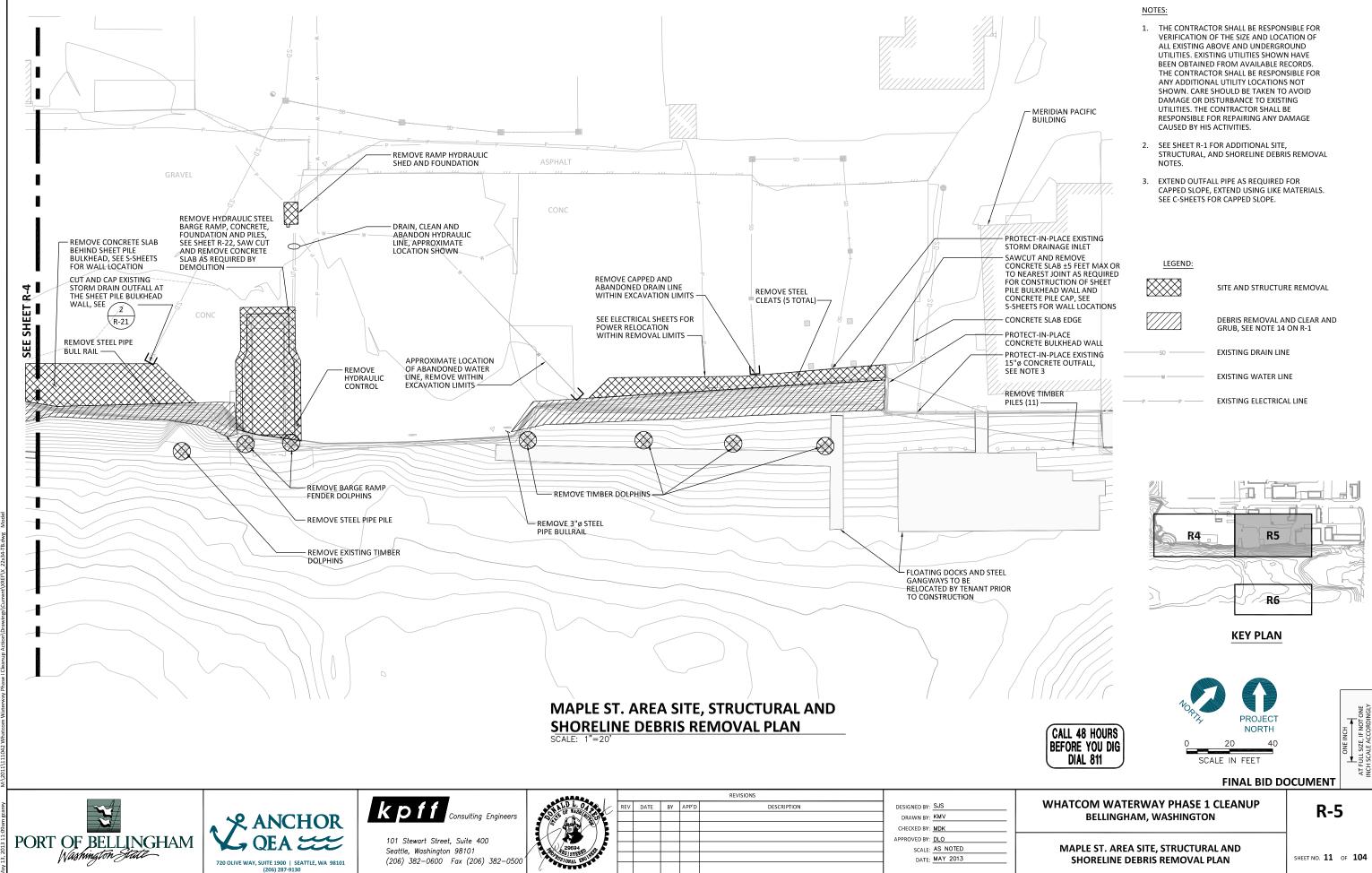


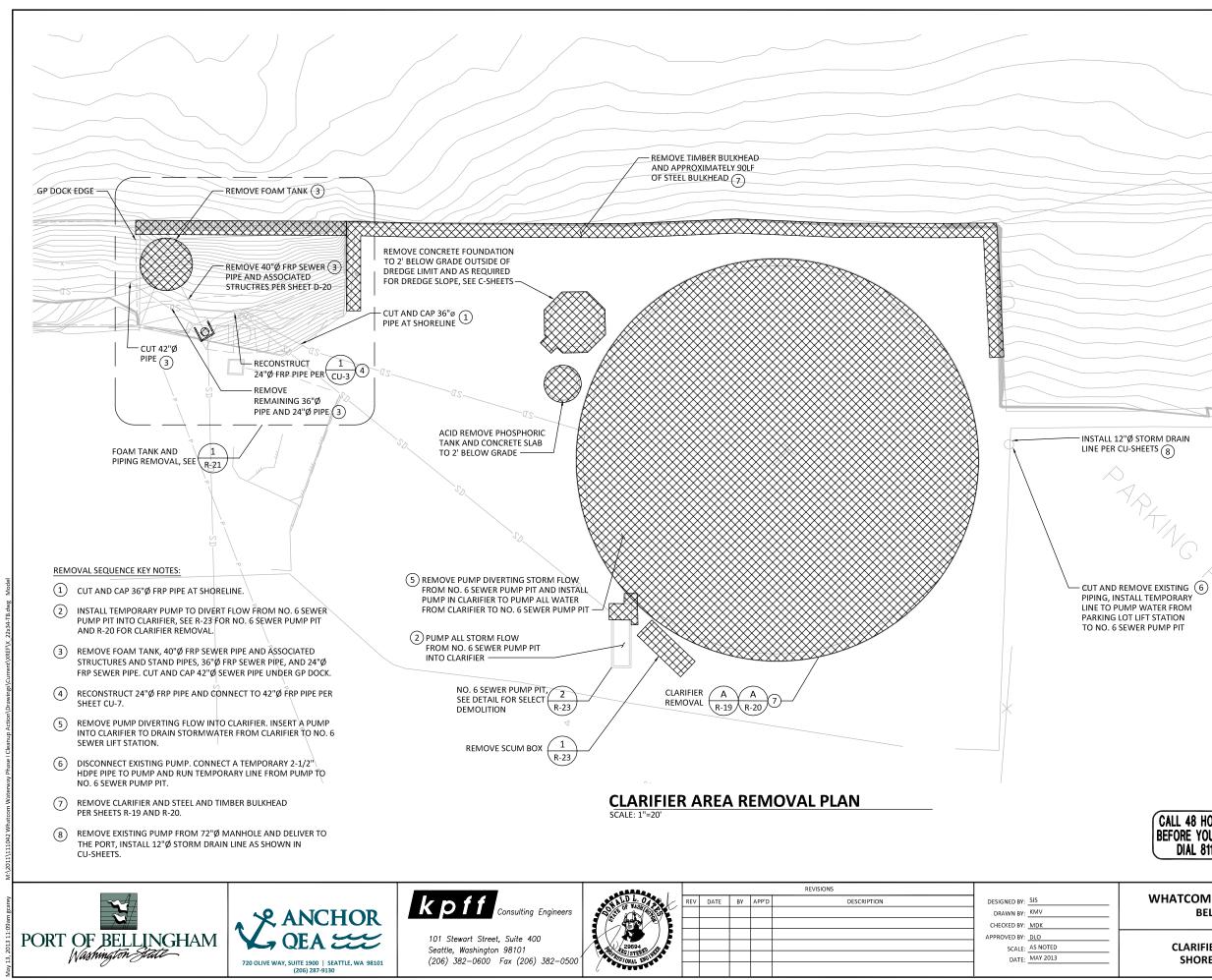
NOTES:

- 1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFICATION OF THE SIZE AND LOCATION OF ALL EXISTING ABOVE AND UNDERGROUND UTILITIES. EXISTING UTILITIES SHOWN HAVE BEEN OBTAINED FROM AVAILABLE RECORDS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY ADDITIONAL UTILITY LOCATIONS NOT SHOWN. CARE SHOULD BE TAKEN TO AVOID DAMAGE OR DISTURBANCE TO EXISTING UTILITIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING ANY DAMAGE CAUSED BY HIS ACTIVITIES.
- 2. SEE SHEET R-1 FOR ADDITIONAL SITE, STRUCTURE, AND SHORELINE DEBRIS REMOVAL NOTES.



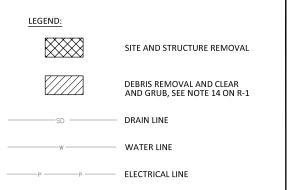


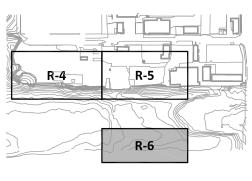




NOTES:

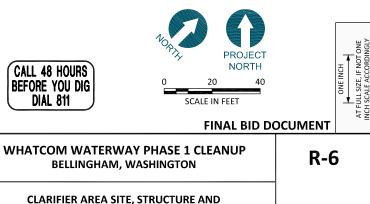
- 1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFICATION OF THE SIZE AND LOCATION OF ALL EXISTING ABOVE AND UNDERGROUND UTILITIES. EXISTING UTILITIES SHOWN HAVE BEEN OBTAINED FROM AVAILABLE RECORDS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY ADDITIONAL UTILITY LOCATIONS NOT SHOWN. CARE SHOULD BE TAKEN TO AVOID DAMAGE OR DISTURBANCE TO EXISTING UTILITIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING ANY DAMAGE CAUSED BY HIS ACTIVITIES.
- 2. SEE SHEET R-1 FOR ADDITIONAL REMOVAL NOTES.
- 3. SEE C-SHEETS FOR DREDGE AND SHORELINE EXCAVATION LIMITS.



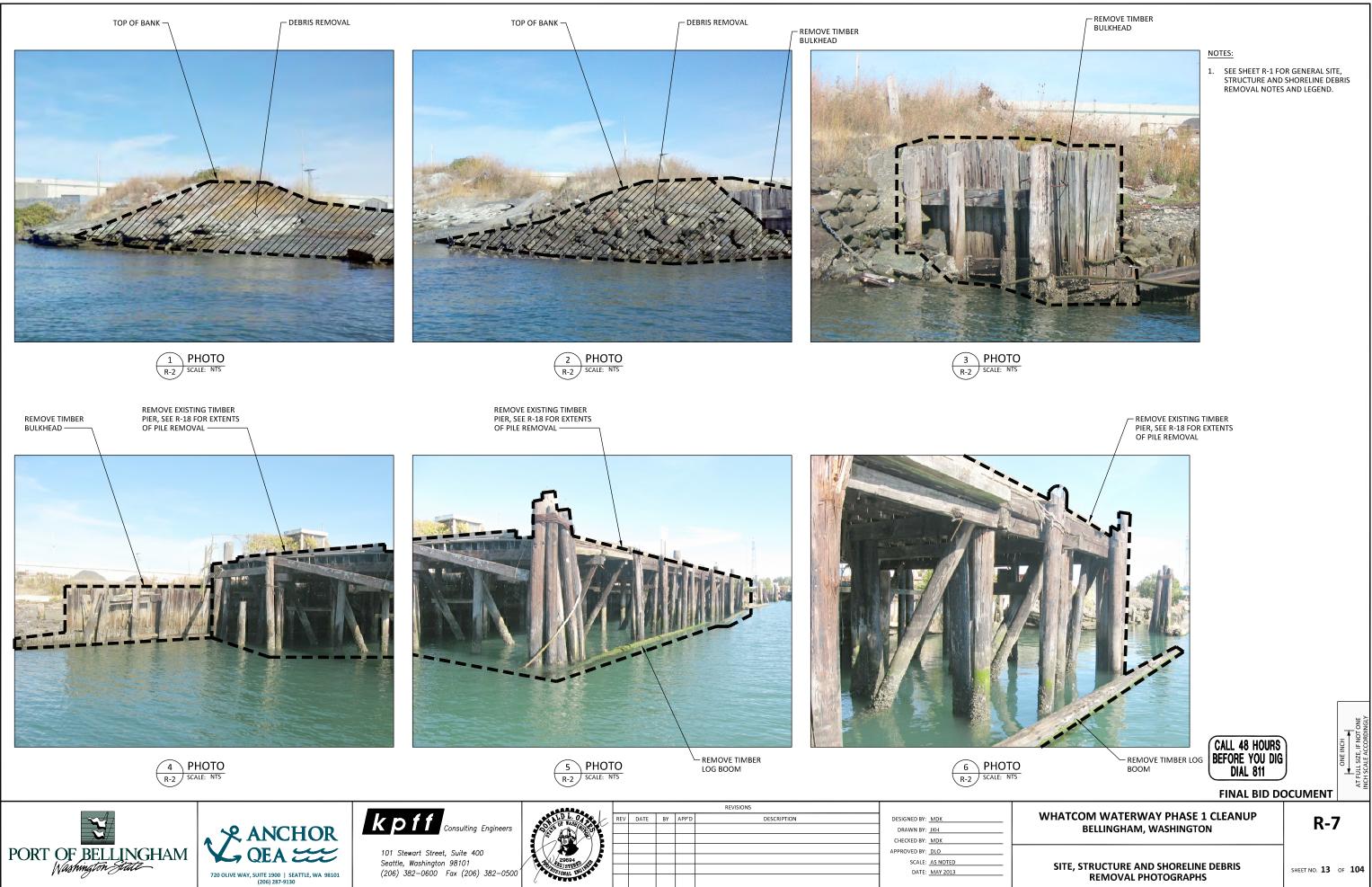


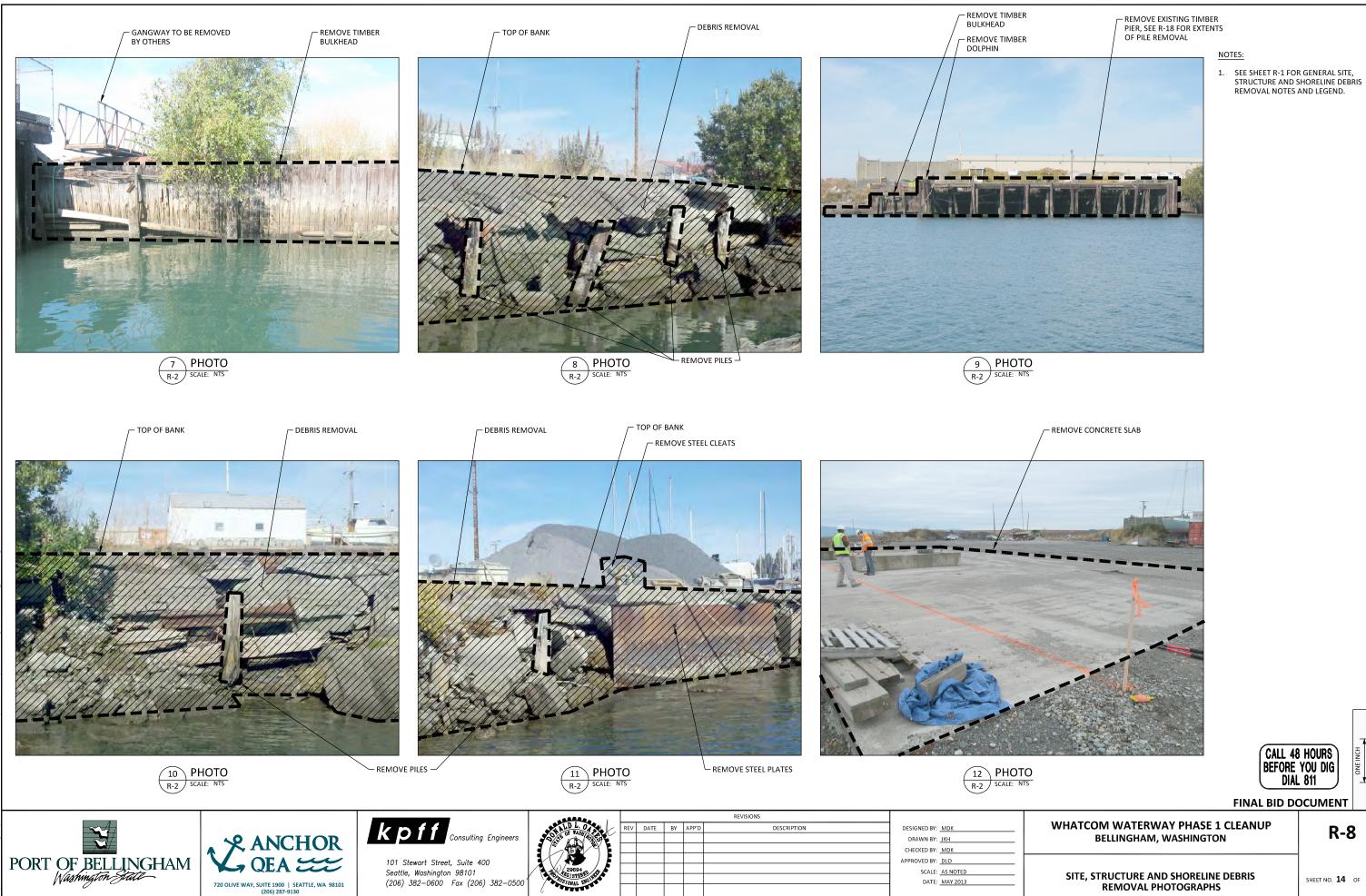
**KEY PLAN** 

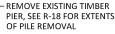
SHEET NO. 12 OF 104



SHORELINE DEBRIS REMOVAL PLAN





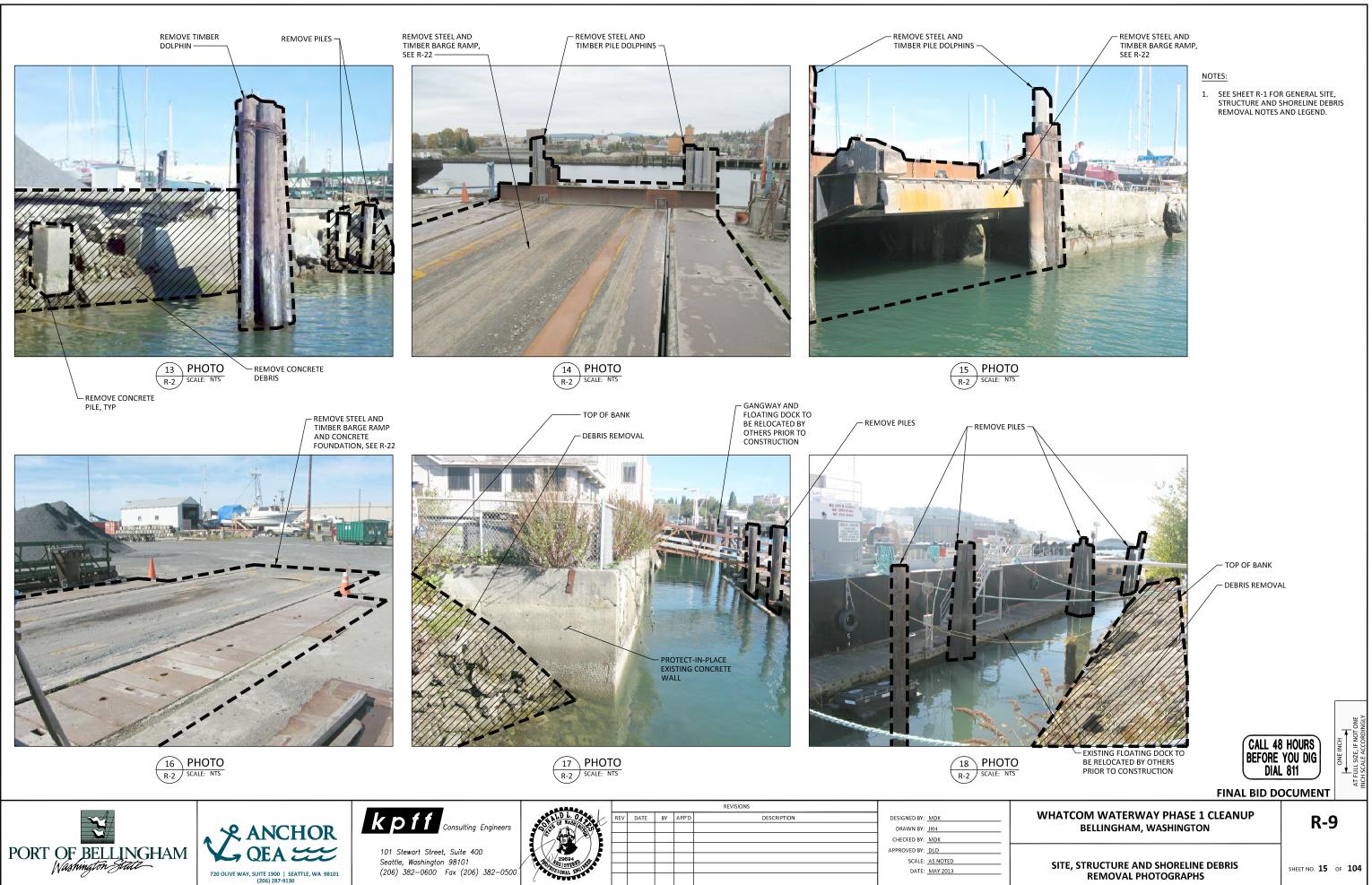


REMOVAL NOTES AND LEGEND.



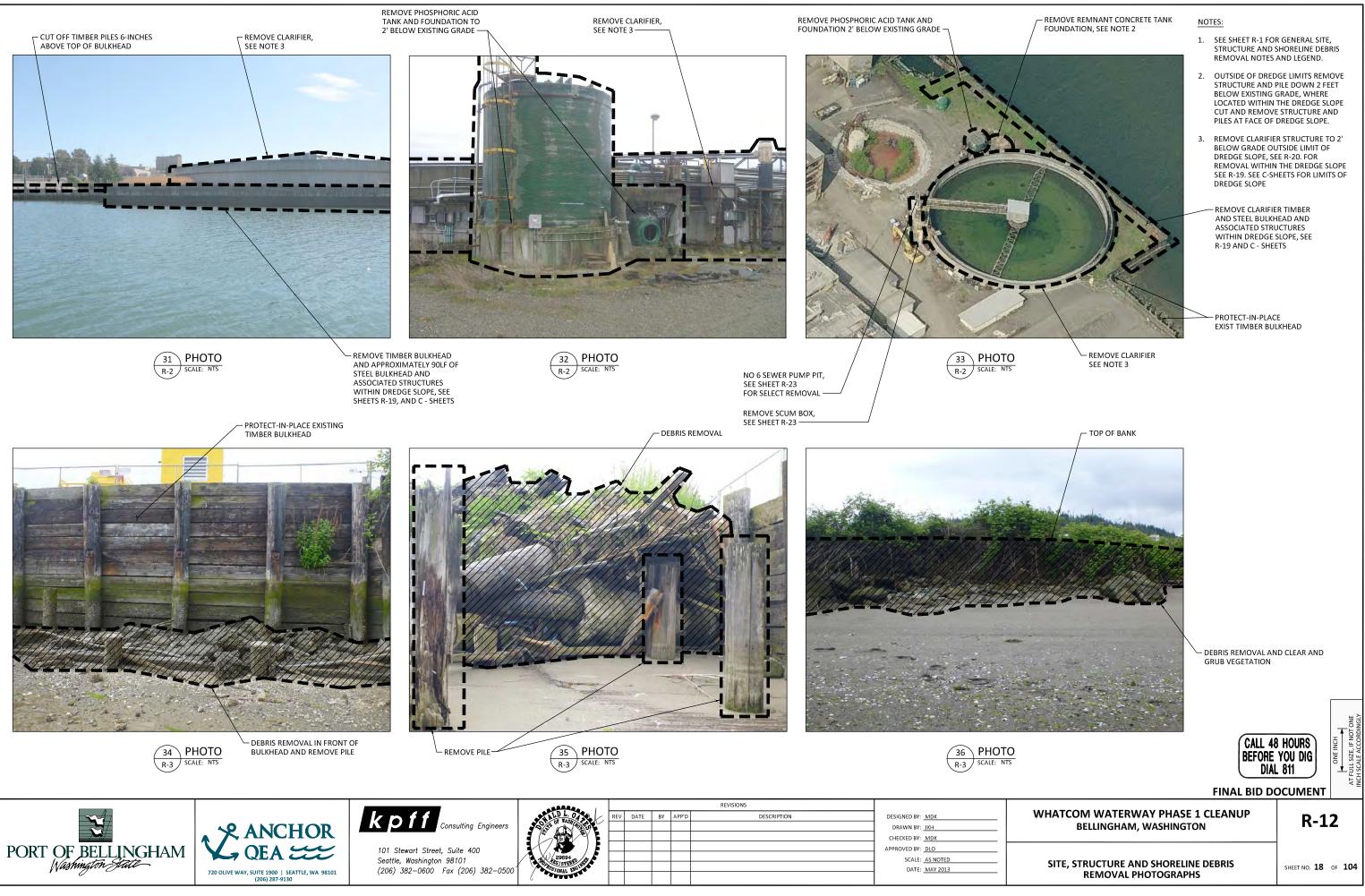
# **R-8**

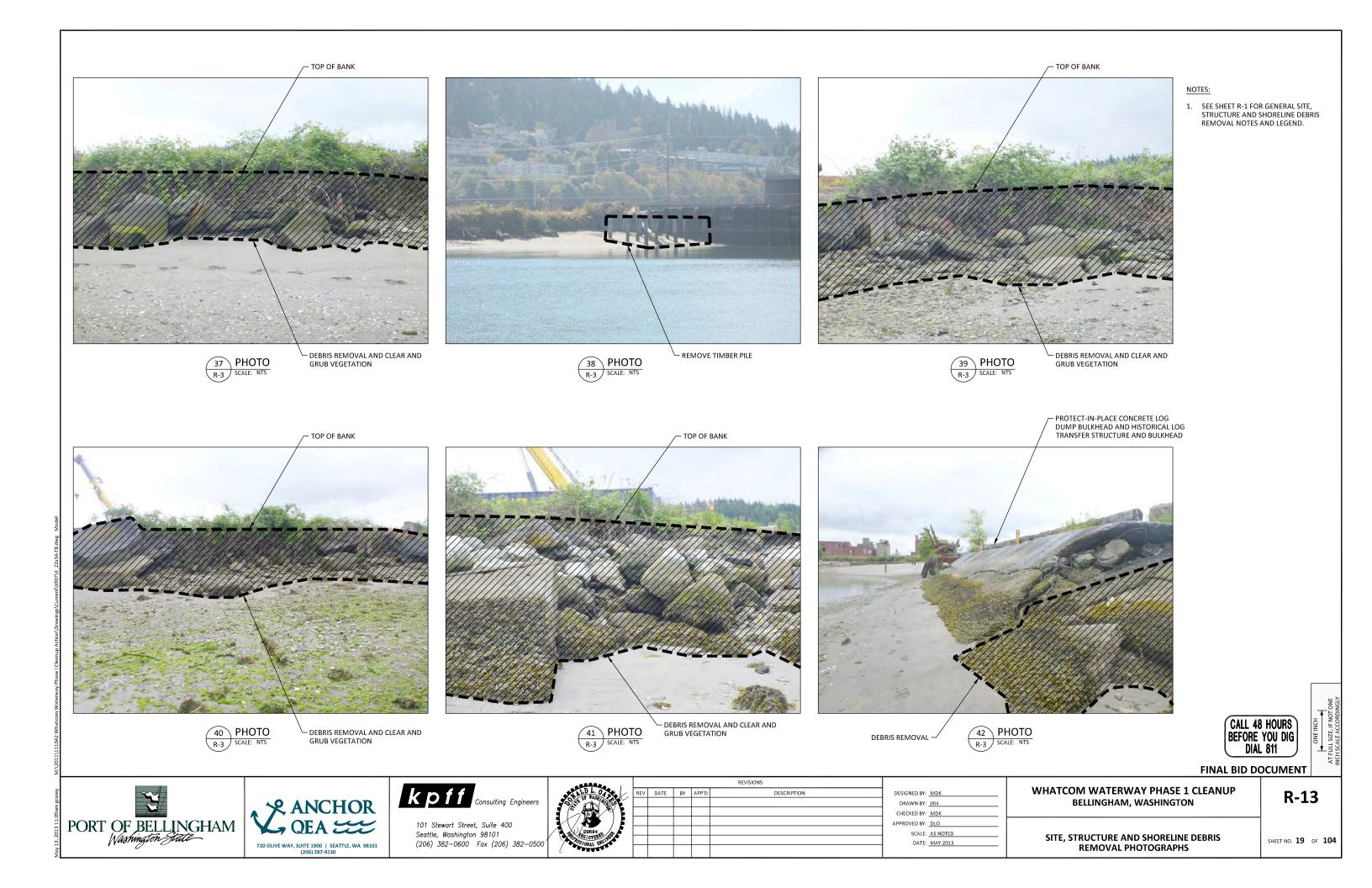
SHEET NO. 14 OF 104

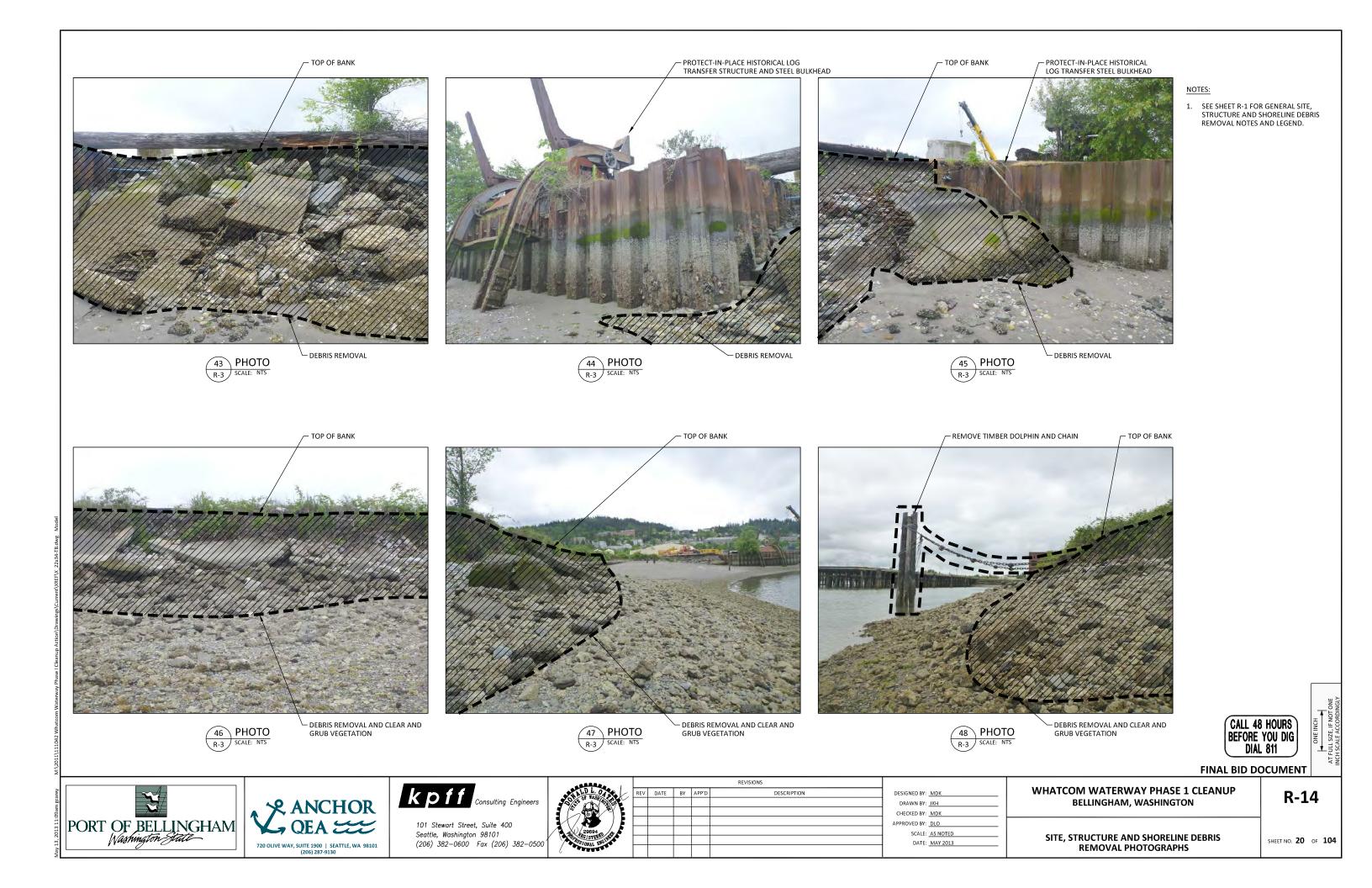


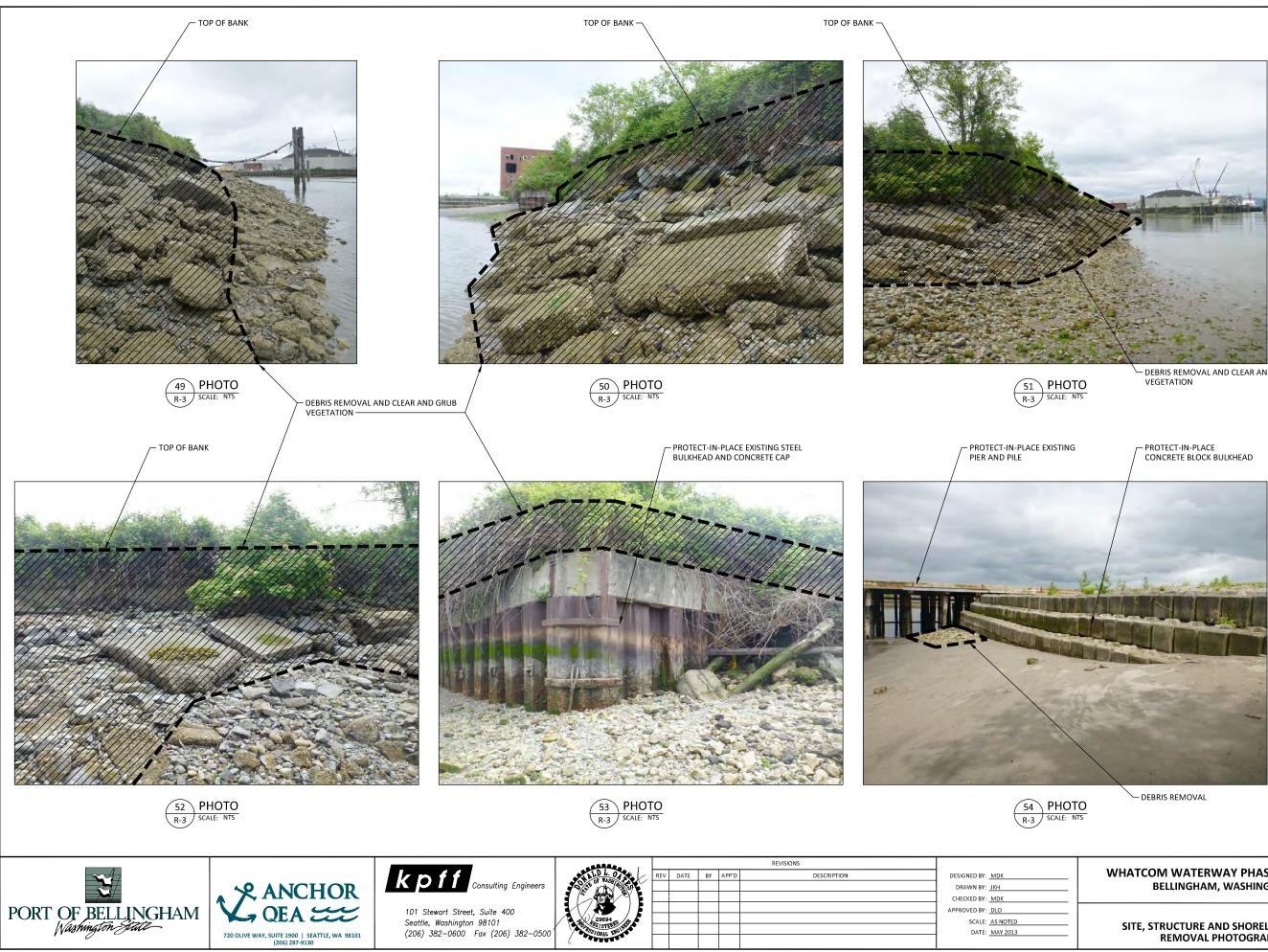












NOTES:

1. SEE SHEET R-1 FOR GENERAL SITE, STRUCTURE AND SHORELINE DEBRIS REMOVAL NOTES AND LEGEND.

- DEBRIS REMOVAL AND CLEAR AND GRUB VEGETATION



FINAL BID DOCUMENT

### WHATCOM WATERWAY PHASE 1 CLEANUP **BELLINGHAM, WASHINGTON**

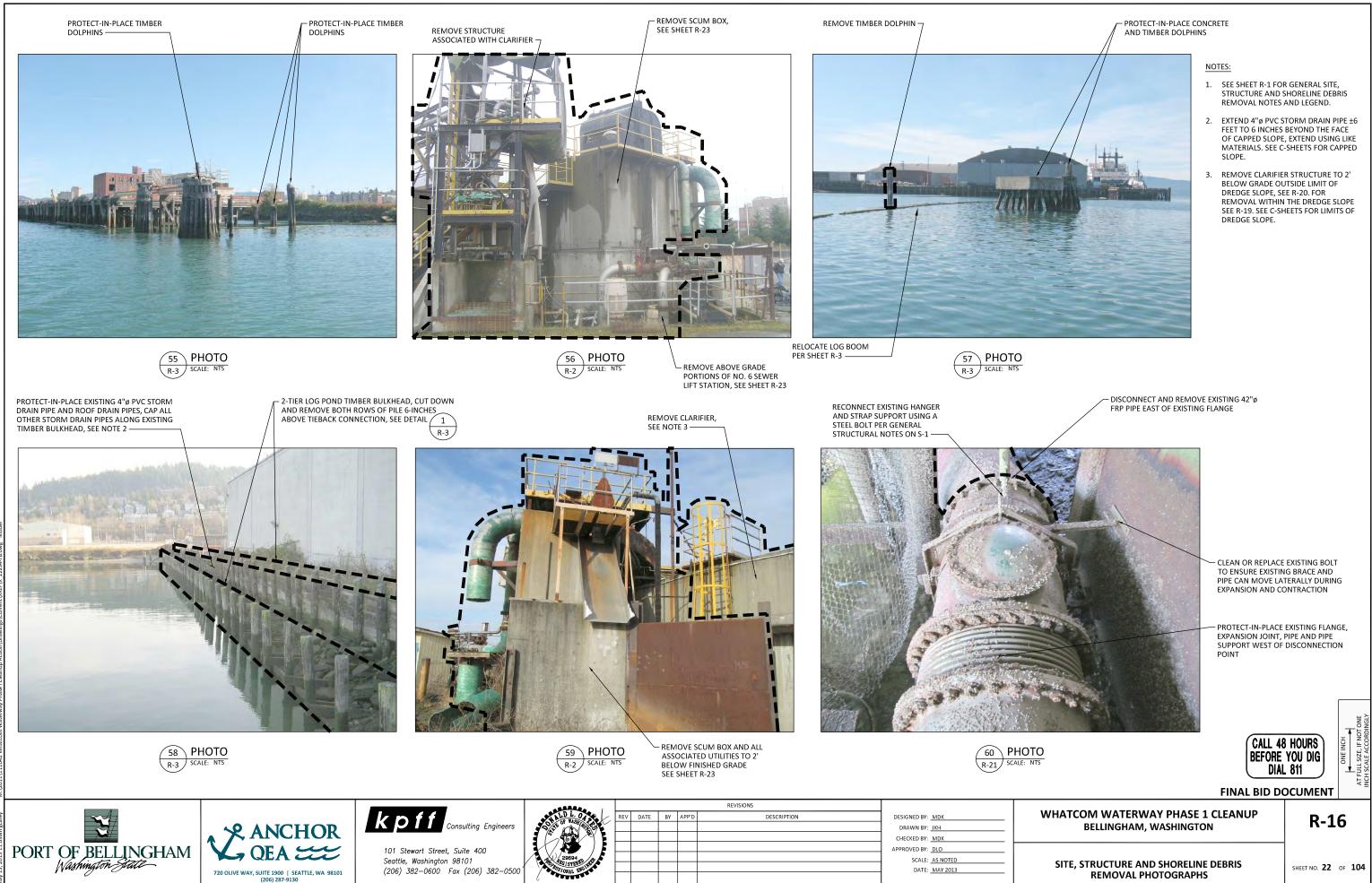
## R-15

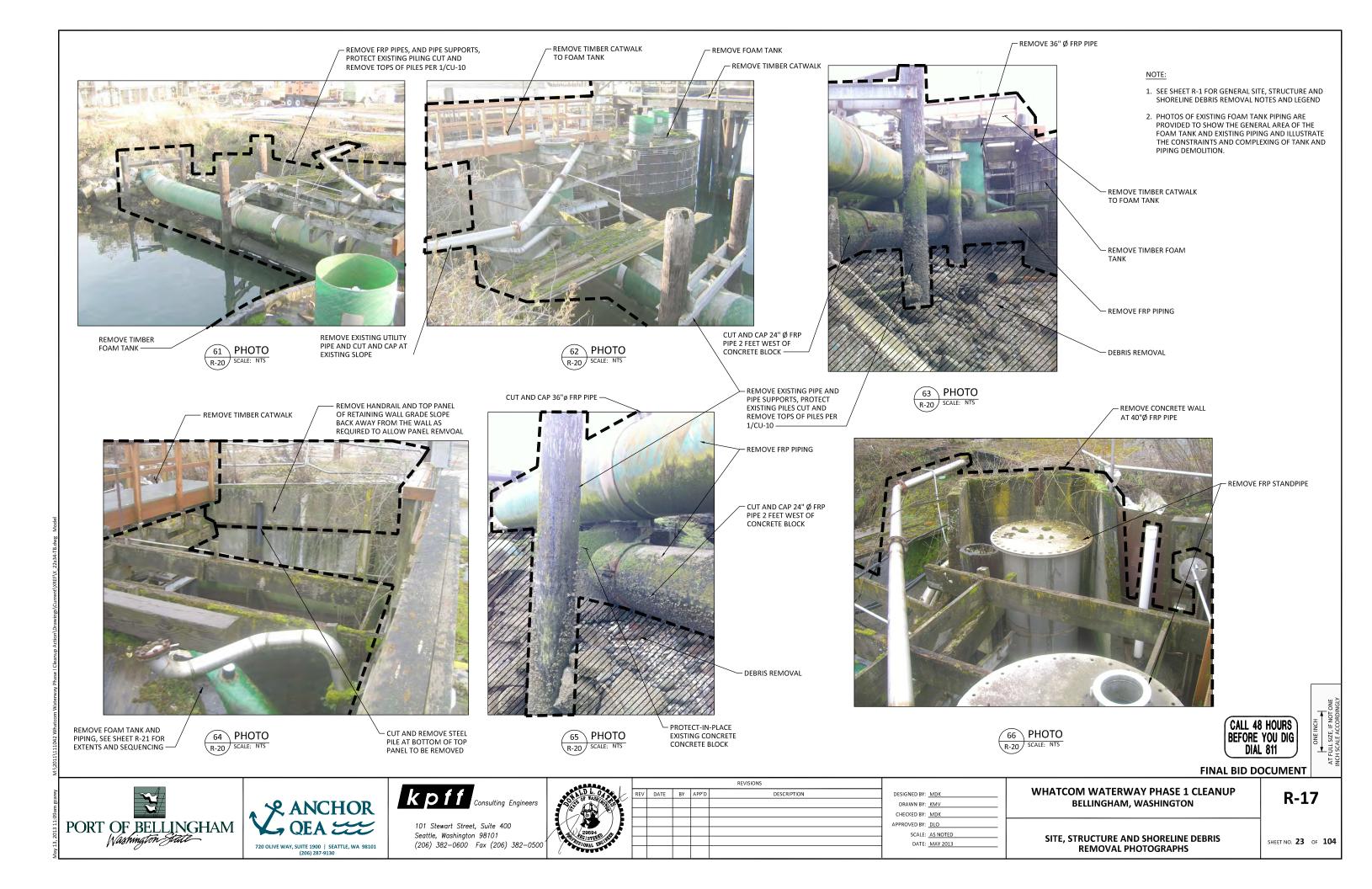
SIZE, IF

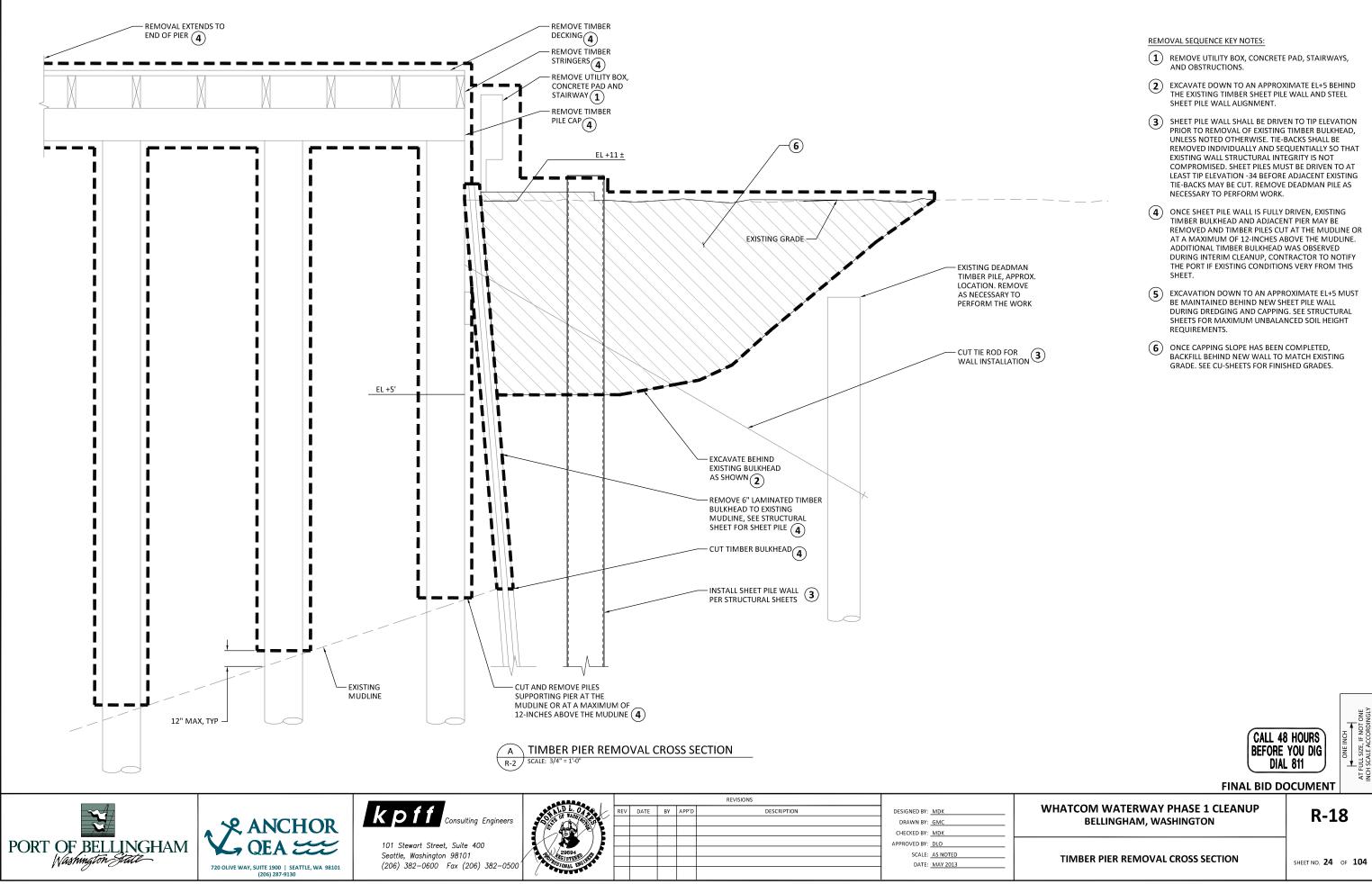
AT FULL

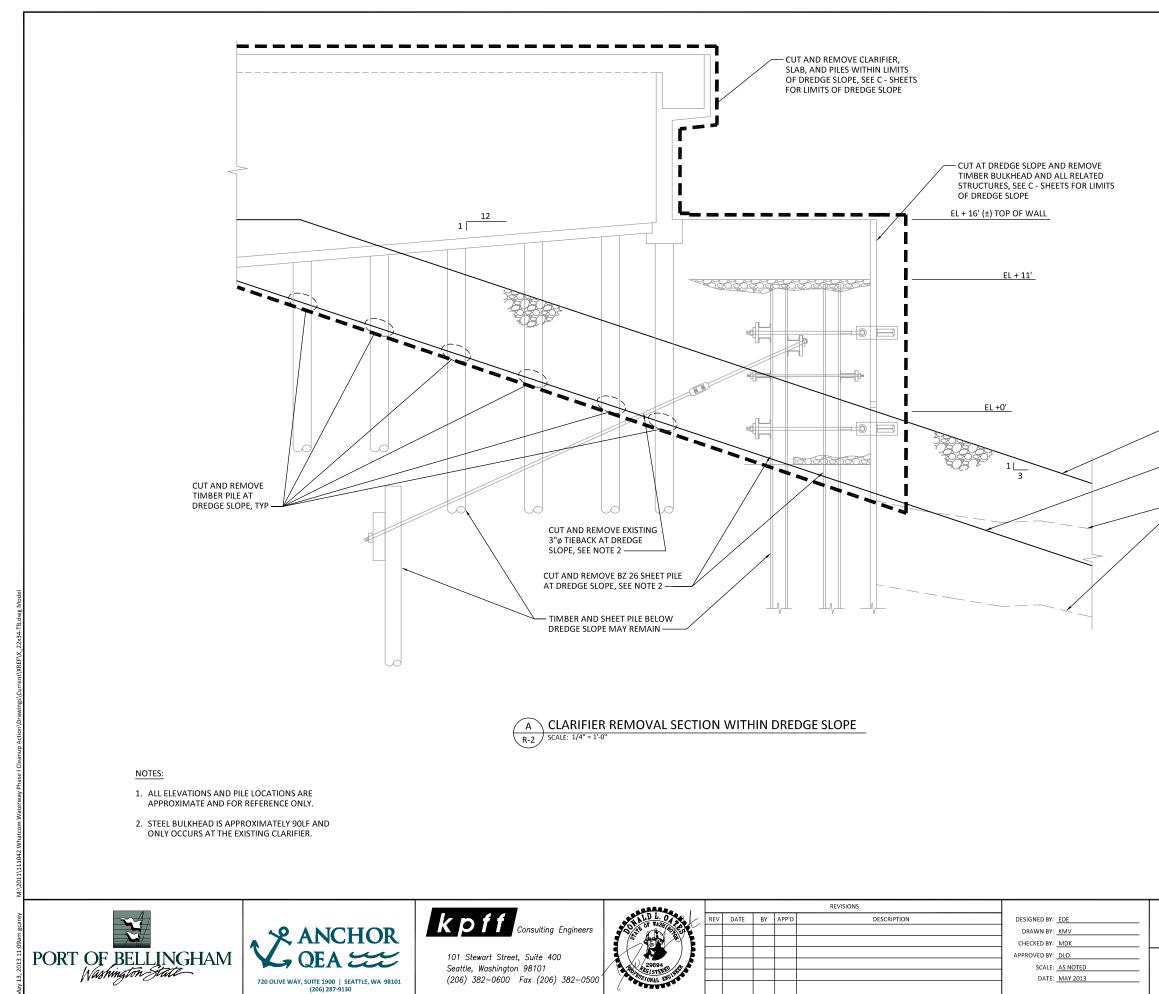
### SITE, STRUCTURE AND SHORELINE DEBRIS **REMOVAL PHOTOGRAPHS**

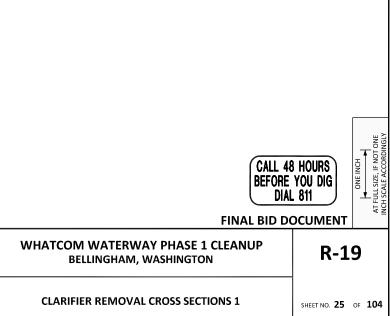
SHEET NO. 21 OF 104











\_\_\_\_\_ DREDGE SLOPE, SEE C-SHEETS

- FINISHED CAPPED SLOPE, C-SHEETS

EXISTING MUDLINE VARIES

