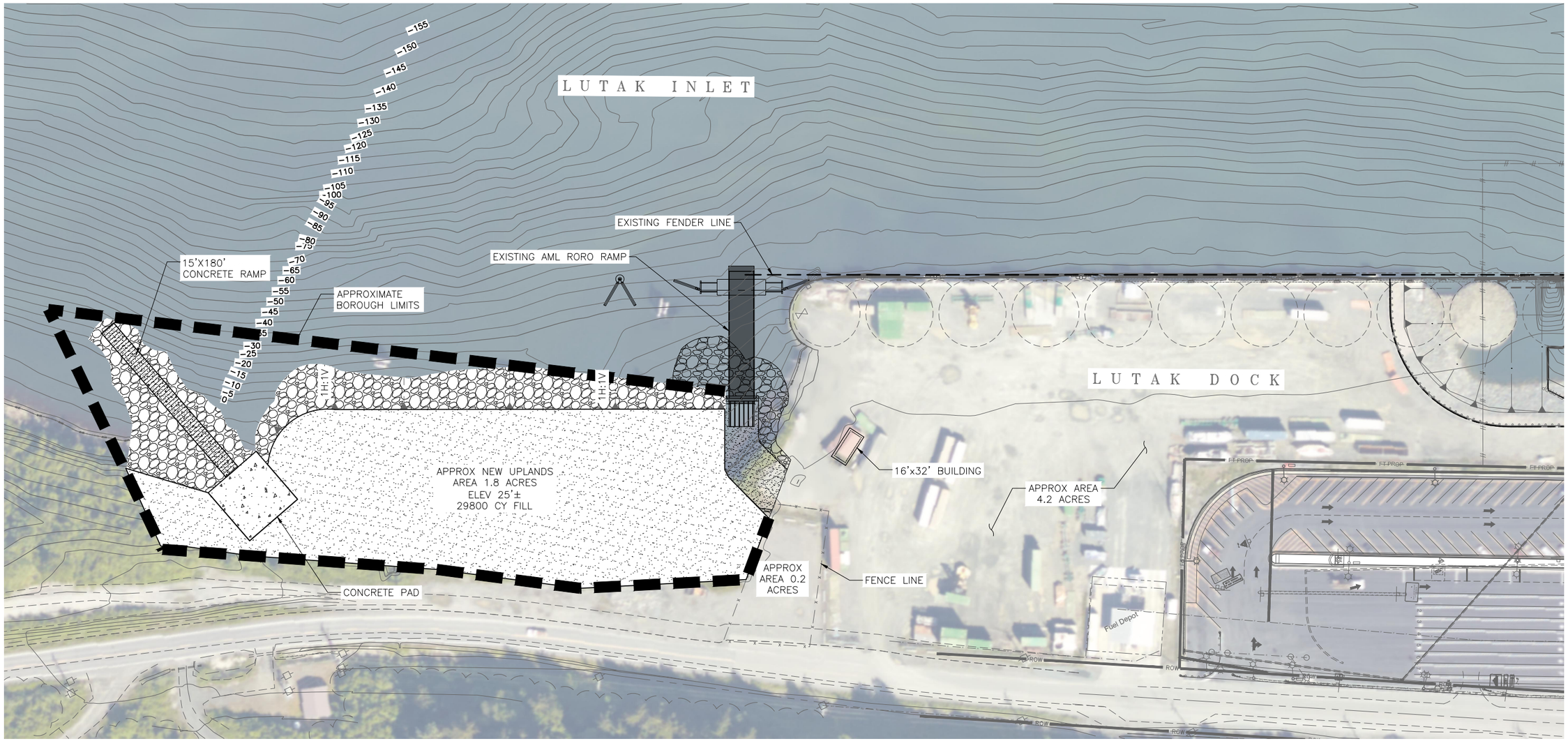

1 PHASE 1 SITE PLAN

Scale: 1" = 50'

0 50 100
FEET

PROGRESS SET NOT FOR CONSTRUCTION

R&M CONSULTANTS, INC.
9101 Vanguard Drive
Anchorage, Alaska 99507
rmconsult.com• email@rmconsult.com
phone: 907.522.1707 • fax: 907.522.3403
CORPORATE AUTHORIZATION NUMBER AECC111

Haines Borough
LUTAK DOCK STUDY
HAINES BOROUGH ALASKA

No.	Description	Date

Drawn By: JVC
Checked By: JCD
Date: JUNE 2021
Phase: PRELIMINARY
Project No: 2898.01
SHEET TITLE: PHASE 1 SITE PLAN
SHEET NO: C1.0

Plotted 6/3/2021 12:45 PM by Jean Cumlat
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ESTIMATED COST

HAINES LUTAK DOCK - 2021 SITE PLAN - PHASE 1

NO.	PAY ITEM DESCRIPTION	UNIT	QUANTITY	UNIT PRICE	AMOUNT
1	MOB AND DEMOB (5% CONSTRUCTION)	LS	1	$47,102	$47,102
2	CONSTRUCTION SURVEY	LS	1	$50,000	$50,000
3	EROSION AND POLLUTION CONTROL	LS	1	$34,375	$34,375
4	SILT CURTAIN - BOOM	LS	1	$132,000	$132,000
	SUB TOTAL MOB AND DEMOB				**$263,477**
5	DEMOLITION OF EXISTING LAUNCH RAMP PLANKS	LS	1	$25,000	$25,000
	SUB TOTAL DEMOLITION				**$25,000**
6	FURNISH AND INSTALL CLASS I RIP RAP SLOPE PROTECTION	CY	1,220	$115	$140,300
7	FURNISH AND INSTALL CLASS IV RIP RAP SLOPE PROTECTION	CY	2,735	$125	$341,875
8	FURNISH AND INSTALL BULK FILL	CY	25,700	$15	$385,500
9	FURNISH AND INSTALL SELECT MATERIAL TYPE A	CY	1,620	$22	$35,640
10	FURNISH AND INSTALL SUBBASE GRADING TYPE B	CY	3,300	$28	$92,400
11	FURNISH AND INSTALL LEVELING COURSE D-1	CY	750	$44	$33,000
	SUB TOTAL NEW UPLAND AREA				**$546,540**
12	SUBGRADE FOR BOAT LAUNCH RAMP	SF	2,700	$15	$40,500
13	FURNISH AND INSTALL CONCRETE PLANKS	CY	150	$2,000	$300,000
14	FURNISH AND INSTALL CONCRETE PAD	CY	25	$1,200	$30,000
15	FURNISH AND INSTALL CLASS I RIP RAP SLOPE PROTECTION	CY	40	$115	$4,600
16	**SUB TOTAL NEW LAUNCH RAMP**				**$370,500**
	TOTAL CONSTRUCTION				**$942,040**

NO.	PAY ITEM DESCRIPTION	UNIT	QUANTITY	UNIT PRICE	AMOUNT
A	DESIGN (10% OF CONSTRUCTION)	LS	1	$94,204	$94,204
B	CONSTRUCTION ADMINISTRATION (6% OF CONSTRUCTION)	LS	1	$56,522	$56,522
	SUB TOTAL ENGINEERING AND ADMIN				**$150,726**

TOTAL CONSTRUCTION & ENGINEERING COST: $1,356,243

25% CONTINGENCY: $339,061

TOTAL: $1,695,000

ESTIMATED COST

HAINES LUTAK DOCK - 2021 SITE PLAN - DESIGN FIELD WORK

NO.	PAY ITEM DESCRIPTION	UNIT	QUANTITY	UNIT PRICE	AMOUNT
A	DESIGN UPLAND SURVEY	LS	1	$60,500	$60,500
B	DESIGN HYDROGRAPHIC SURVEY	LS	1	$22,000	$22,000
C	DESIGN GEOTECH PROGRAM	LS	1	$175,000	$175,000

TOTAL CONSTRUCTION COST: $257,500

25% CONTINGENCY: $64,375

TOTAL: $322,000

ESTIMATED COST

HAINES LUTAK DOCK - 2021 SITE PLAN - PERMITTING

NO.	PAY ITEM DESCRIPTION	UNIT	QUANTITY	UNIT PRICE	AMOUNT
A	PERMITTING CLEAN WATER ACT SECTION 10 AND 404	LS	1	$22,000	$22,000
B	PERMITTING NMFS IHA	LS	1	$88,000	$88,000
C	PERMITTING NEPA	LS	1	$110,000	$110,000

TOTAL PERMITTING COST: $220,000

25% CONTINGENCY: $55,000

TOTAL: $275,000

PROGRESS SET NOT FOR CONSTRUCTION

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CORPORATE AUTHORIZATION NUMBER AECC111

Haines Borough
LUTAK DOCK STUDY

No.	Description	Date

Drawn By: JVC
Checked By: JCD
Date: JUNE 2021
Phase: PRELIMINARY
Project No: 2898.01
SHEET TITLE: COST ESTIMATE 1 - PHASE 1
SHEET NO: C1.1

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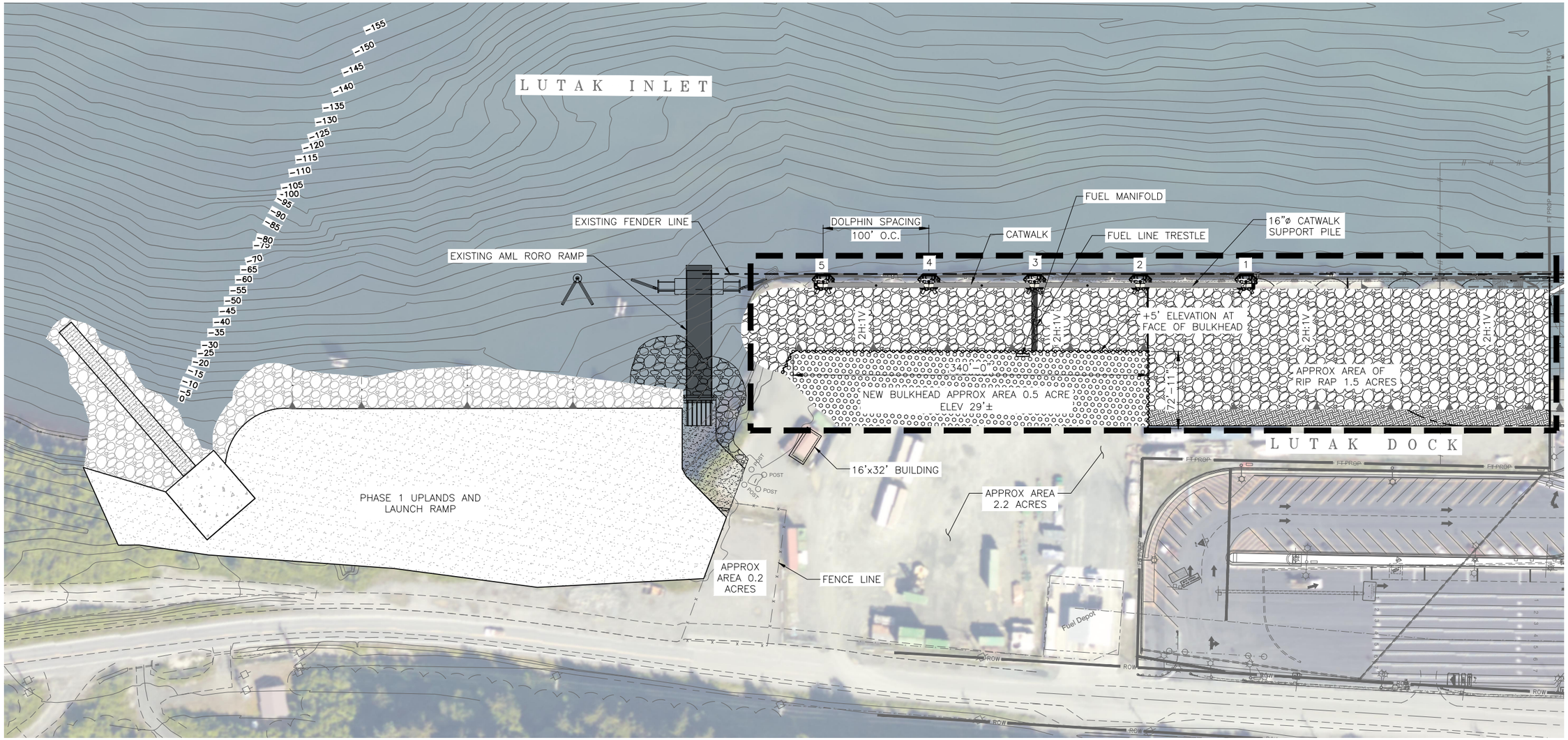

1 PHASE 2 SITE PLAN

Scale: 1" = 50'

0 50 100
FEET

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Haines Borough

LUTAK DOCK STUDY

HAINES BOROUGH ALASKA

No.	Description	Date

Drawn By: JVC
Checked By: JCD
Date: JUNE 2021
Phase: PRELIMINARY
Project No: 2898.01
SHEET TITLE: PHASE 2 SITE PLAN
SHEET NO: C2.0

Plotted 6/3/2021 12:46 PM by Jean Cumlat
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ESTIMATED COST

HAINES LUTAK DOCK - 2021 SITE PLAN - PHASE 2

NO.	PAY ITEM DESCRIPTION	UNIT	QUANTITY	UNIT PRICE	AMOUNT
1	MOB AND DEMOB (5% CONSTRUCTION + BARGE)	LS	1	$2,142,583	$2,142,583
2	CONSTRUCTION SURVEY	LS	1	$50,000	$50,000
3	PROTECTED SPECIES OBSERVER	LS	1	$132,000	$132,000
4	EROSION AND POLLUTION CONTROL	LS	1	$34,375	$34,375
5	SILT CURTAIN - BOOM	LS	1	$132,000	$132,000
	SUB TOTAL MOB AND DEMOB				**$2,490,958**
6	DEMOLITION OF PILE CAPS AND MISC STRUCTURE	LF	770	$561	$431,970
7	DEMOLITION OF EXISTING DOLPHINS	LS	1	$55,000	$55,000
8	DEMOLITION OF CLOSURE ARCS	EA	10	$27,500	$275,000
9	DEMOLISH EXISTING FENDERS	EA	11	$2,200	$24,200
10	DEMOLISH EXISTING FENDER PILES	EA	22	$2,750	$60,500
11	EXCAVATION AND DISPOSAL OF EXISTING FILL	CY	72,157	$17	$1,226,669
12	DREDGING AND DISPOSAL	CY	34,369	$26	$893,594
	SUB TOTAL DEMOLITION				**$2,966,933**
13	FURNISH NZ-19 SHEET PILING	LF	6,160	$110	$677,600
14	INSTALL NZ-19 SHEET PILING, PER PAIR	EA	59	$2,500	$147,500
15	FURNISH 30" DIAMETER x 5/8" WALL KING PILING	LF	3,840	$392	$1,505,280
16	INSTALL 30" DIAMETER x 5/8" WALL KING PILING	EA	60	$7,500	$450,000
17	FURNISH AND INSTALL 200lb ANODES	EA	60	$1,200	$72,000
18	FURNISH AND INSTALL CLASS I RIP RAP SLOPE PROTECTION	CY	9,510	$115	$1,093,650
19	FURNISH AND INSTALL CLASS IV RIP RAP SLOPE PROTECTION	CY	12,050	$125	$1,506,250
20	FURNISH AND INSTALL SALVAGED BULK FILL	CY	97,500	$15	$1,462,500

NO.	PAY ITEM DESCRIPTION	UNIT	QUANTITY	UNIT PRICE	AMOUNT
21	FURNISH AND INSTALL SELECT MATERIAL TYPE A	CY	14,500	$22	$319,000
22	FURNISH AND INSTALL SUBBASE GRADING TYPE B	CY	2,170	$28	$60,760
23	FURNISH AND INSTALL LEVELING COURSE D-1	CY	480	$44	$21,120
	SUB TOTAL BULKHEAD				**$7,315,660**
24	FURNISH 36" DIAMETER X 1" WALL KING PILING	LF	550	$748	$411,400
25	INSTALL 36" DIAMETER X 1" WALL KING PILING IN ROCK SOCKET	EA	5	$25,000	$125,000
26	FURNISH 30" DIAMETER X .625" WALL BATTER PILING	LF	1,120	$392	$439,040
27	INSTALL 30" DIAMETER X .625" WALL BATTER PILING IN ROCK SOCKET	EA	10	$25,000	$250,000
28	FURNISH AND INSTALL FENDER PANEL	EA	5	$20,000	$100,000
29	FURNISH 18" DIAMETER CATWALK SUPPORT AND ABUTMENT PILING	LF	360	$232	$83,520
30	INSTALL 18" DIAMETER CATWALK SUPPORT AND ABUTMENT PILING	EA	6	$4,000	$24,000
31	FURNISH AND INSTALL CATWALKS	LF	475	$1,250	$593,750
32	FURNISH AND INSTALL 200lb ANODES	EA	65	$1,200	$78,000
	SUB TOTAL DOLPHINS AND CATWALKS				**$2,026,710**
33	MODIFICATIONS TO FUEL SYSTEM	LS	1	$50,000	$50,000
34	FURNISH AND INSTALL LIFE RINGS	EA	5	$1,320	$6,600
35	FURNISH AND INSTALL FIRE EXTINGUISHERS	EA	5	$1,320	$6,600
36	FURNISH AND INSTALL FIRE STANDPIPE	LF	1,000	$132	$132,000
37	ELECTRICAL AND LIGHTING	LS	1	$347,160	$347,160
	SUB TOTAL MISC CONSTRUCTION				**$542,360**
	TOTAL CONSTRUCTION				**$12,851,663**

NO.	PAY ITEM DESCRIPTION	UNIT	QUANTITY	UNIT PRICE	AMOUNT
A	DESIGN (10% OF CONSTRUCTION)	LS	1	$1,285,166	$1,285,166
B	CONSTRUCTION ADMINISTRATION (6% OF CONSTRUCTION)	LS	1	$771,100	$771,100
	SUB TOTAL ENGINEERING AND ADMIN				**$2,056,266**

TOTAL CONSTRUCTION & ENGINEERING COST: $17,398,887

25% CONTINGENCY: $4,349,722

TOTAL: $21,749,000

PROGRESS SET NOT FOR CONSTRUCTION

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CORPORATE AUTHORIZATION NUMBER AECC111

Haines Borough
LUTAK DOCK STUDY

HAINES BOROUGH ALASKA

No.	Description	Date

Drawn By: JVC
Checked By: JCD
Date: JUNE 2021
Phase: PRELIMINARY
Project No: 2898.01
SHEET TITLE: COST ESTIMATE 2 - PHASE 2
SHEET NO: C2.1

Plotted 6/3/2021 12:46 PM by Jean Cumlat
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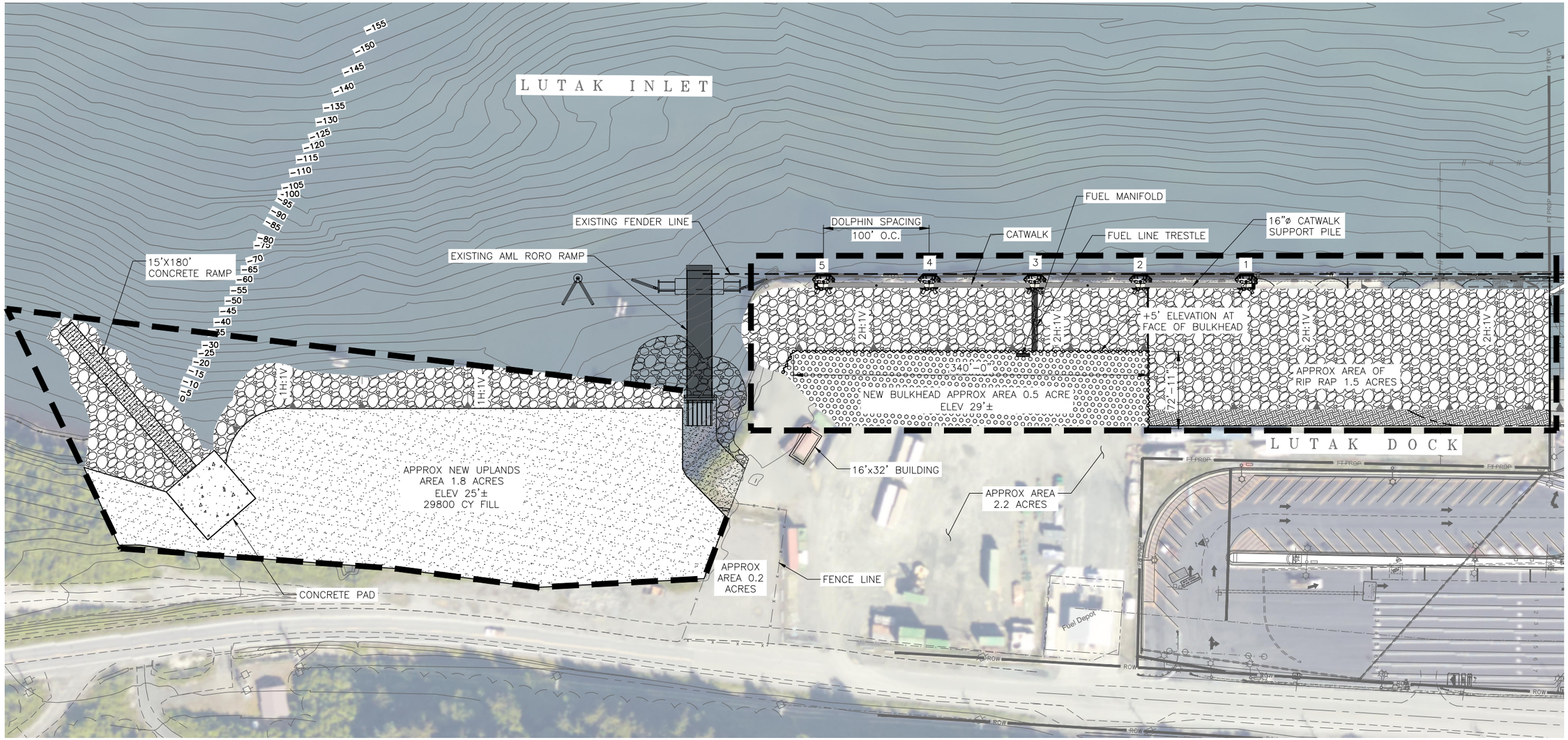

1 PHASE 1 & 2 SITE PLAN

Scale: 1" = 50'

0 50 100
FEET

PROGRESS SET NOT FOR CONSTRUCTION

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Haines Borough
LUTAK DOCK STUDY

HAINES BOROUGH ALASKA

No.	Description	Date

Drawn By: JVC
Checked By: JCD
Date: JUNE 2021
Phase: PRELIMINARY
Project No: 2898.01
SHEET TITLE: PHASE 1 & 2 SITE PLAN
SHEET NO: C3.0

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Plotted 6/3/2021 12:46 PM by Jean Cumlat

ESTIMATED COST

HAINES LUTAK DOCK - 2021 SITE PLAN - PHASES 1 AND 2

NO.	PAY ITEM DESCRIPTION	UNIT	QUANTITY	UNIT PRICE	AMOUNT
1	MOB AND DEMOB (5% CONSTRUCTION + BARGE)	LS	1	$2,189,685	$2,189,685
2	CONSTRUCTION SURVEY	LS	1	$75,000	$75,000
3	PROTECTED SPECIES OBSERVER	LS	1	$132,000	$132,000
4	EROSION AND POLLUTION CONTROL	LS	1	$34,375	$34,375
5	SILT CURTAIN - BOOM	LS	1	$132,000	$132,000
	SUB TOTAL MOB AND DEMOB				**$2,563,060**
6	DEMOLITION OF PILE CAPS AND MISC STRUCTURE	LF	770	$561	$431,970
7	DEMOLITION OF EXISTING DOLPHINS	LS	1	$55,000	$55,000
8	DEMOLITION OF CLOSURE ARCS	EA	10	$27,500	$275,000
9	DEMOLISH EXISTING FENDERS	EA	11	$2,200	$24,200
10	DEMOLISH EXISTING FENDER PILES	EA	22	$2,750	$60,500
11	DEMOLITION OF EXISTING LAUNCH RAMP PLANKS	LS	1	$25,000	$25,000
12	EXCAVATION AND DISPOSAL OF EXISTING FILL	CY	72,157	$17	$1,226,669
13	DREDGING AND DISPOSAL	CY	34,369	$26	$893,594
	SUB TOTAL DEMOLITION				**$2,991,933**
14	FURNISH NZ-19 SHEET PILING	LF	6,160	$110	$677,600
15	INSTALL NZ-19 SHEET PILING, PER PAIR	EA	59	$2,500	$147,500
16	FURNISH 30" DIAMETER x 5/8" WALL KING PILING	LF	3,840	$392	$1,505,280
17	INSTALL 30" DIAMETER x 5/8" WALL KING PILING	EA	60	$7,500	$450,000
18	FURNISH AND INSTALL 200lb ANODES	EA	60	$1,200	$72,000
19	FURNISH AND INSTALL CLASS I RIP RAP SLOPE PROTECTION	CY	9,510	$115	$1,093,650
20	FURNISH AND INSTALL CLASS IV RIP RAP SLOPE PROTECTION	CY	12,050	$125	$1,506,250

NO.	PAY ITEM DESCRIPTION	UNIT	QUANTITY	UNIT PRICE	AMOUNT
21	FURNISH AND INSTALL SALVAGED BULK FILL	CY	97,500	$15	$1,462,500
22	FURNISH AND INSTALL SELECT MATERIAL TYPE A	CY	14,500	$22	$319,000
23	FURNISH AND INSTALL SUBBASE GRADING TYPE B	CY	2,170	$28	$60,760
24	FURNISH AND INSTALL LEVELING COURSE D-1	CY	480	$44	$21,120
	SUB TOTAL BULKHEAD				**$7,315,660**
25	FURNISH 36" DIAMETER X 1" WALL KING PILING	LF	550	$748	$411,400
26	INSTALL 36" DIAMETER X 1" WALL KING PILING IN ROCK SOCKET	EA	5	$25,000	$125,000
27	FURNISH 30" DIAMETER X .625" WALL BATTER PILING	LF	1,120	$392	$439,040
28	INSTALL 30" DIAMETER X .625" WALL BATTER PILING IN ROCK SOCKET	EA	10	$25,000	$250,000
29	FURNISH AND INSTALL FENDER PANEL	EA	5	$20,000	$100,000
30	FURNISH 18" DIAMETER CATWALK SUPPORT AND ABUTMENT PILING	LF	360	$232	$83,520
31	INSTALL 18" DIAMETER CATWALK SUPPORT AND ABUTMENT PILING	EA	6	$4,000	$24,000
32	FURNISH AND INSTALL CATWALKS	LF	475	$1,250	$593,750
33	FURNISH AND INSTALL 200lb ANODES	EA	65	$1,200	$78,000
	SUB TOTAL DOLPHINS AND CATWALKS				**$2,026,710**
34	FURNISH AND INSTALL CLASS I RIP RAP SLOPE PROTECTION	CY	1,220	$115	$140,300
35	FURNISH AND INSTALL CLASS IV RIP RAP SLOPE PROTECTION	CY	2,735	$125	$341,875
36	FURNISH AND INSTALL BULK FILL	CY	25,700	$15	$385,500
37	FURNISH AND INSTALL SELECT MATERIAL TYPE A	CY	1,620	$22	$35,640
38	FURNISH AND INSTALL SUBBASE GRADING TYPE B	CY	3,300	$28	$92,400
39	FURNISH AND INSTALL LEVELING COURSE D-1	CY	750	$44	$33,000
	SUB TOTAL NEW UPLAND AREA				$546,540

NO.	PAY ITEM DESCRIPTION	UNIT	QUANTITY	UNIT PRICE	AMOUNT
40	SUBGRADE FOR BOAT LAUNCH RAMP	SF	2,700	$15	$40,500
41	FURNISH AND INSTALL CONCRETE PLANKS	CY	150	$2,000	$300,000
42	FURNISH AND INSTALL CONCRETE PAD	CY	25	$1,200	$30,000
41	FURNISH AND INSTALL CLASS I RIP RAP SLOPE PROTECTION	CY	40	$115	$4,600
42	**SUB TOTAL NEW LAUNCH RAMP**				**$370,500**
43	MODIFICATIONS TO FUEL SYSTEM	LS	1	$50,000	$50,000
44	FURNISH AND INSTALL LIFE RINGS	EA	5	$1,320	$6,600
45	FURNISH AND INSTALL FIRE EXTINGUISHERS	EA	5	$1,320	$6,600
46	FURNISH AND INSTALL FIRE STANDPIPE	LF	1,000	$132	$132,000
47	ELECTRICAL AND LIGHTING	LS	1	$347,160	$347,160
	SUB TOTAL MISC CONSTRUCTION				**$542,360**
	TOTAL CONSTRUCTION				**$13,793,703**
A	DESIGN (10% OF CONSTRUCTION)	LS	1	$1,379,370	$1,379,370
B	CONSTRUCTION ADMINISTRATION (6% OF CONSTRUCTION)	LS	1	$827,622	$827,622
	SUB TOTAL ENGINEERING AND ADMIN				**$2,206,992**

TOTAL CONSTRUCTION & ENGINEERING COST: $18,563,756

25% CONTINGENCY: $4,640,939

TOTAL: $23,205,000

PROGRESS SET NOT FOR CONSTRUCTION

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Haines Borough

LUTAK DOCK STUDY

No.	Description	Date

Drawn By: JVC | Checked By: JCD

Date: JUNE 2021

Phase: PRELIMINARY

Project No: 2898.01

SHEET TITLE: COST ESTIMATE 3 - PHASE 1 AND 2

SHEET NO: C3.1

Plotted 6/3/2021 12:46 PM by Jean Cumlat
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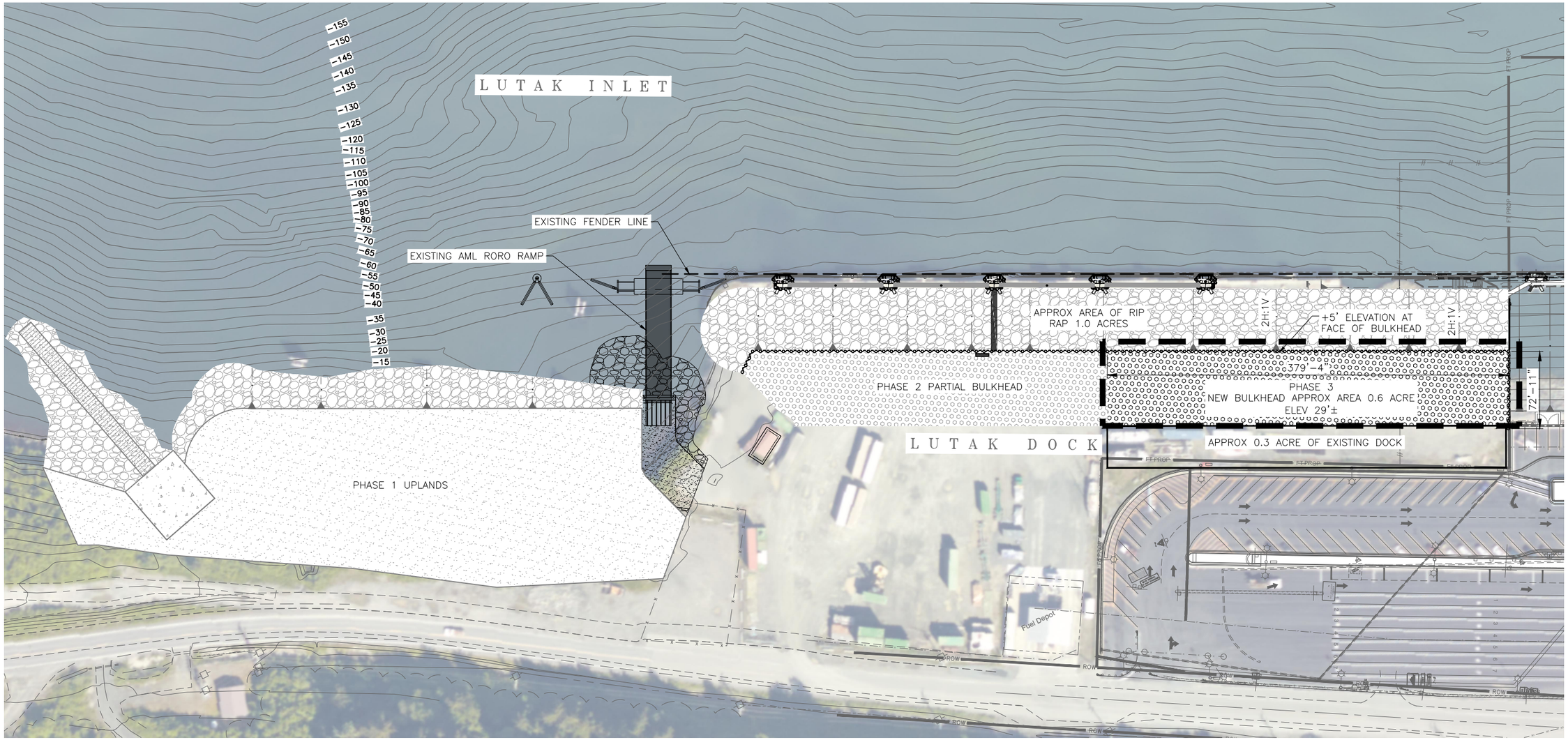

1 PHASE 3 SITE PLAN

Scale: 1" = 50'

0 50 100
FEET

PROGRESS SET NOT FOR CONSTRUCTION

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CORPORATE AUTHORIZATION NUMBER AECC111

Haines Borough

LUTAK DOCK STUDY

HAINES BOROUGH ALASKA

No.	Description	Date

Drawn By: JVC
Checked By: JCD
Date: JUNE 2021
Phase: PRELIMINARY
Project No: 2898.01
SHEET TITLE: PHASE 3 SITE PLAN
SHEET NO: C4.0

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ESTIMATED COST

HAINES LUTAK DOCK - 2021 SITE PLAN - PHASE 3

NO.	PAY ITEM DESCRIPTION	UNIT	QUANTITY	UNIT PRICE	AMOUNT
1	MOB AND DEMOB (5% CONSTRUCTION + BARGE)	LS	1	$1,786,509	$1,786,509
2	CONSTRUCTION SURVEY	LS	1	$50,000	$50,000
3	PROTECTED SPECIES OBSERVER	LS	1	$132,000	$132,000
4	EROSION AND POLLUTION CONTROL	LS	1	$34,375	$34,375
5	SILT CURTAIN - BOOM	LS	1	$132,000	$132,000
	SUB TOTAL MOB AND DEMOB				**$2,134,884**
6	FURNISH NZ-19 SHEET PILING	LF	6,475	$110	$712,250
7	INSTALL NZ-19 SHEET PILING, PER PAIR	EA	62	$2,500	$155,000
8	FURNISH 30" DIAMETER x 5/8" WALL KING PILING	LF	3,840	$392	$1,505,280
9	INSTALL 30" DIAMETER x 5/8" WALL KING PILING	EA	62	$7,500	$465,000
10	FURNISH AND INSTALL 200lb ANODES	EA	62	$1,200	$74,400
11	FURNISH AND INSTALL CLASS I RIP RAP SLOPE PROTECTION	CY	5,130	$115	$589,950
12	FURNISH AND INSTALL CLASS IV RIP RAP SLOPE PROTECTION	CY	6,500	$125	$812,500
13	FURNISH AND INSTALL SALVAGED BULK FILL	CY	78,600	$15	$1,179,000
14	FURNISH AND INSTALL SELECT MATERIAL TYPE A	CY	7,800	$22	$171,600
15	FURNISH AND INSTALL SUBBASE GRADING TYPE B	CY	1,700	$28	$47,600
16	FURNISH AND INSTALL LEVELING COURSE D-1	CY	400	$44	$17,600
	SUB TOTAL BULKHEAD				**$5,730,180**
	TOTAL CONSTRUCTION				**$5,730,180**
A	DESIGN (10% OF CONSTRUCTION)	LS	1	$573,018	$573,018
B	CONSTRUCTION ADMINISTRATION (6% OF CONSTRUCTION)	LS	1	$343,811	$343,811
	SUB TOTAL ENGINEERING AND ADMIN				**$916,829**

TOTAL CONSTRUCTION & ENGINEERING COST: $8,781,893

25% CONTINGENCY: $2,195,473

TOTAL: $10,977,000

PROGRESS SET NOT FOR CONSTRUCTION

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Haines Borough
LUTAK DOCK STUDY

No.	Description	Date

Drawn By: JVC
Checked By: JCD
Date: JUNE 2021
Phase: PRELIMINARY
Project No: 2898.01
SHEET TITLE: COST ESTIMATE 4 - PHASE 1-3
SHEET NO: C4.1

Plotted 6/3/2021 12:47 PM by Jean Cumlat
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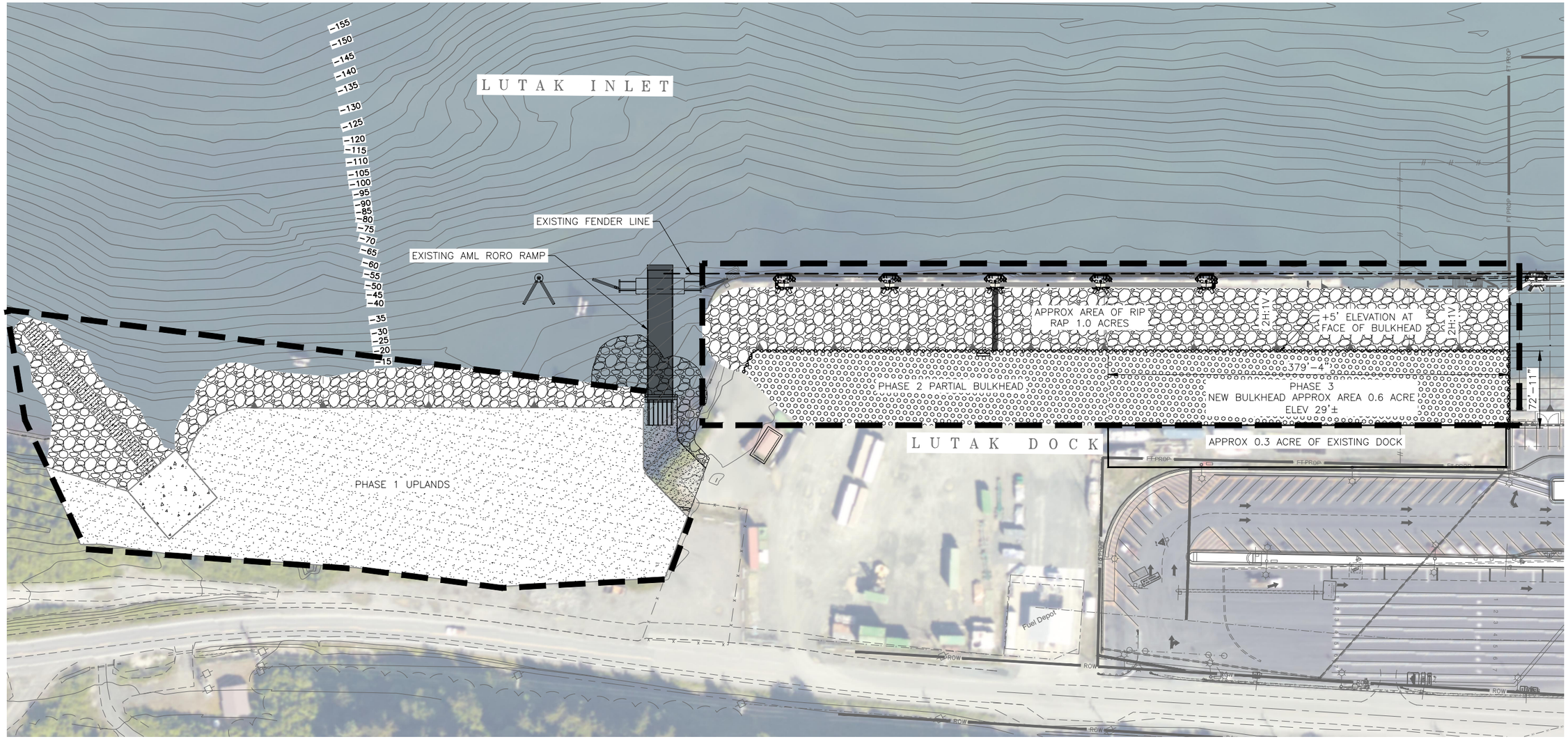

1 PHASES 1-3 SITE PLAN

Scale: 1" = 50'

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FEET

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CORPORATE AUTHORIZATION NUMBER AECC111

Haines Borough
LUTAK DOCK STUDY

No.	Description	Date

Drawn By: JVC
Checked By: JCD
Date: JUNE 2021
Phase: PRELIMINARY
Project No: 2898.01
SHEET TITLE: PHASE 1-3 SITE PLAN
SHEET NO: C5.0

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Plotted 6/3/2021 12:47 PM by Jean Cumlat

ESTIMATED COST

HAINES LUTAK DOCK - 2021 SITE PLAN - PHASES 1-3

NO.	PAY ITEM DESCRIPTION	UNIT	QUANTITY	UNIT PRICE	AMOUNT
1	MOB AND DEMOB (5% CONSTRUCTION + BARGE)	LS	1	$2,345,442	$2,345,442
2	CONSTRUCTION SURVEY	LS	1	$100,000	$100,000
3	PROTECTED SPECIES OBSERVER	LS	1	$132,000	$132,000
4	EROSION AND POLLUTION CONTROL	LS	1	$34,375	$34,375
5	SILT CURTAIN - BOOM	LS	1	$132,000	$132,000
	SUB TOTAL MOB AND DEMOB				**$2,743,817**
6	DEMOLITION OF PILE CAPS AND MISC STRUCTURE	LF	770	$561	$431,970
7	DEMOLITION OF EXISTING DOLPHINS	LS	1	$55,000	$55,000
8	DEMOLITION OF CLOSURE ARCS	EA	10	$27,500	$275,000
9	DEMOLISH EXISTING FENDERS	EA	11	$2,200	$24,200
10	DEMOLISH EXISTING FENDER PILES	EA	22	$2,750	$60,500
11	DEMOLITION OF EXISTING LAUNCH RAMP PLANKS	LS	1	$25,000	$25,000
12	EXCAVATION AND DISPOSAL OF EXISTING FILL	CY	72,157	$17	$1,226,669
13	DREDGING AND DISPOSAL	CY	34,369	$26	$893,594
	SUB TOTAL DEMOLITION				**$2,991,933**
14	FURNISH NZ-19 SHEET PILING	LF	12,600	$110	$1,386,000
15	INSTALL NZ-19 SHEET PILING, PER PAIR	EA	121	$2,500	$302,500
16	FURNISH 30" DIAMETER x 5/8" WALL KING PILING	LF	7,800	$392	$3,057,600
17	INSTALL 30" DIAMETER x 5/8" WALL KING PILING	EA	122	$7,500	$915,000
18	FURNISH AND INSTALL 200lb ANODES	EA	122	$1,200	$146,400
19	FURNISH AND INSTALL CLASS I RIP RAP SLOPE PROTECTION	CY	8,500	$115	$977,500
20	FURNISH AND INSTALL CLASS IV RIP RAP SLOPE PROTECTION	CY	10,800	$125	$1,350,000

NO.	PAY ITEM DESCRIPTION	UNIT	QUANTITY	UNIT PRICE	AMOUNT
21	FURNISH AND INSTALL SALVAGED BULK FILL	CY	127,000	$15	$1,905,000
22	FURNISH AND INSTALL SELECT MATERIAL TYPE A	CY	12,900	$22	$283,800
23	FURNISH AND INSTALL SUBBASE GRADING TYPE B	CY	2,800	$28	$78,400
24	FURNISH AND INSTALL LEVELING COURSE D-1	CY	650	$44	$28,600
	SUB TOTAL BULKHEAD				**$10,430,800**
25	FURNISH 36" DIAMETER X 1" WALL KING PILING	LF	550	$748	$411,400
26	INSTALL 36" DIAMETER X 1" WALL KING PILING IN ROCK SOCKET	EA	5	$25,000	$125,000
27	FURNISH 30" DIAMETER X .625" WALL BATTER PILING	LF	1,120	$392	$439,040
28	INSTALL 30" DIAMETER X .625" WALL BATTER PILING IN ROCK SOCKET	EA	10	$25,000	$250,000
29	FURNISH AND INSTALL FENDER PANEL	EA	5	$20,000	$100,000
30	FURNISH 18" DIAMETER CATWALK SUPPORT AND ABUTMENT PILING	LF	360	$232	$83,520
31	INSTALL 18" DIAMETER CATWALK SUPPORT AND ABUTMENT PILING	EA	6	$4,000	$24,000
32	FURNISH AND INSTALL CATWALKS	LF	475	$1,250	$593,750
33	FURNISH AND INSTALL 200lb ANODES	EA	65	$1,200	$78,000
	SUB TOTAL DOLPHINS AND CATWALKS				**$2,026,710**
34	FURNISH AND INSTALL CLASS I RIP RAP SLOPE PROTECTION	CY	1,220	$115	$140,300
35	FURNISH AND INSTALL CLASS IV RIP RAP SLOPE PROTECTION	CY	2,735	$125	$341,875
36	FURNISH AND INSTALL BULK FILL	CY	25,700	$15	$385,500
37	FURNISH AND INSTALL SELECT MATERIAL TYPE A	CY	1,620	$22	$35,640
38	FURNISH AND INSTALL SUBBASE GRADING TYPE B	CY	3,300	$28	$92,400
39	FURNISH AND INSTALL LEVELING COURSE D-1	CY	750	$44	$33,000
	SUB TOTAL NEW UPLAND AREA				$546,540

NO.	PAY ITEM DESCRIPTION	UNIT	QUANTITY	UNIT PRICE	AMOUNT
40	SUBGRADE FOR BOAT LAUNCH RAMP	SF	2,700	$15	$40,500
41	FURNISH AND INSTALL CONCRETE PLANKS	CY	150	$2,000	$300,000
42	FURNISH AND INSTALL CONCRETE PAD	CY	25	$1,200	$30,000
41	FURNISH AND INSTALL CLASS I RIP RAP SLOPE PROTECTION	CY	40	$115	$4,600
42	**SUB TOTAL NEW LAUNCH RAMP**				**$370,500**
43	MODIFICATIONS TO FUEL SYSTEM	LS	1	$50,000	$50,000
44	FURNISH AND INSTALL LIFE RINGS	EA	5	$1,320	$6,600
45	FURNISH AND INSTALL FIRE EXTINGUISHERS	EA	5	$1,320	$6,600
46	FURNISH AND INSTALL FIRE STANDPIPE	LF	1,000	$132	$132,000
47	ELECTRICAL AND LIGHTING	LS	1	$347,160	$347,160
	SUB TOTAL MISC CONSTRUCTION				**$542,360**
	TOTAL CONSTRUCTION				**$16,908,843**
A	DESIGN (10% OF CONSTRUCTION)	LS	1	$1,690,884	$1,690,884
B	CONSTRUCTION ADMINISTRATION (6% OF CONSTRUCTION)	LS	1	$1,014,531	$1,014,531
	SUB TOTAL ENGINEERING AND ADMIN				**$2,705,415**

TOTAL CONSTRUCTION & ENGINEERING COST: $22,358,075

25% CONTINGENCY: $5,589,519

TOTAL: $27,948,000

PROGRESS SET NOT FOR CONSTRUCTION

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No.	Description	Date

Drawn By: JVC | Checked By: JCD

Date: JUNE 2021

Phase: PRELIMINARY

Project No: 2898.01

SHEET TITLE: COST ESTIMATE 5 - PHASE 1- 3

SHEET NO: **C5.1**

Plotted 6/3/2021 12:47 PM by Jean Cumlat
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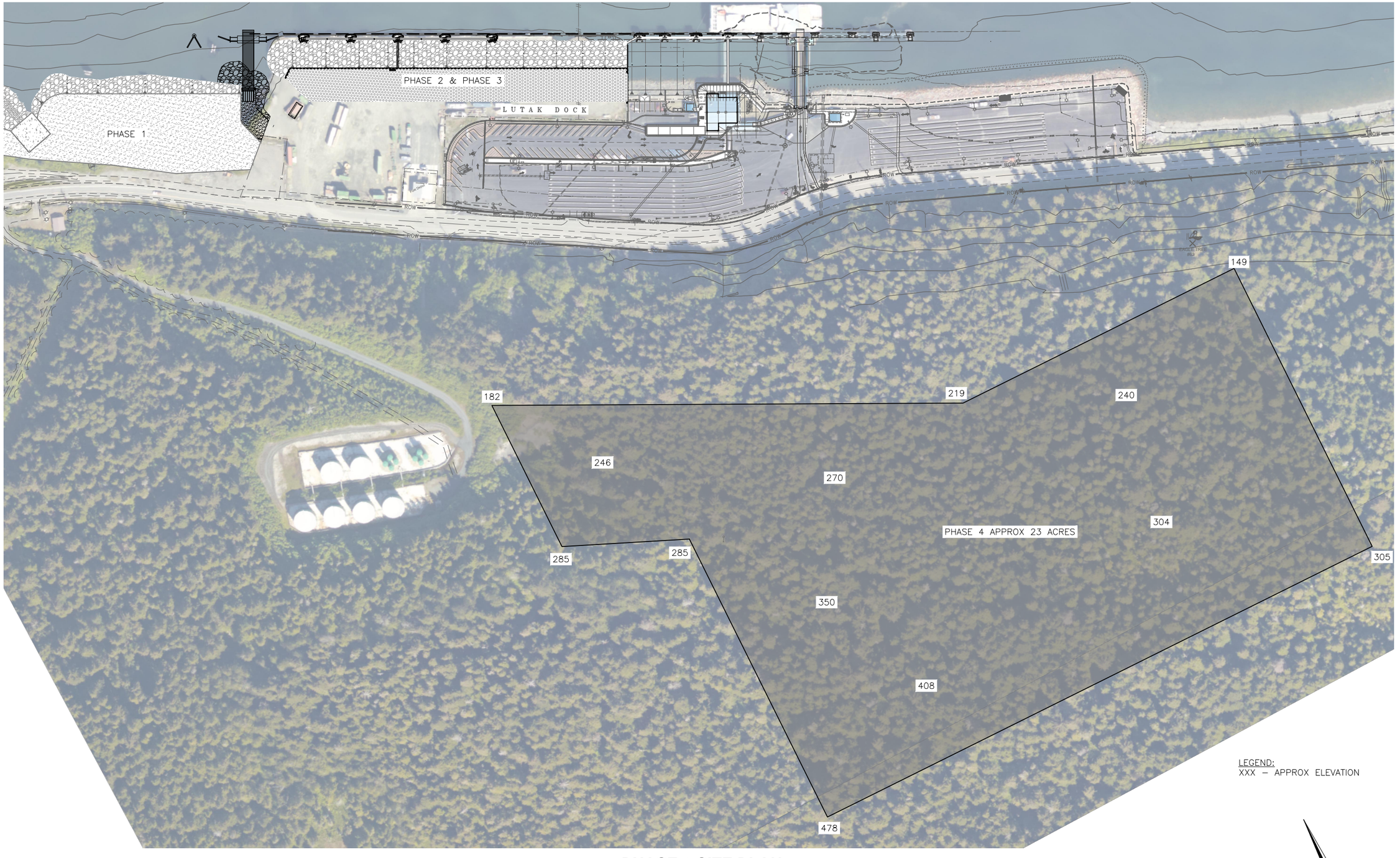

LEGEND:
XXX – APPROX ELEVATION

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FEET

1 PHASE 4 SITE PLAN
Scale: 1" = 100'

PROGRESS SET
NOT FOR
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Project No.: 2898.01
SHEET TITLE: PHASE 4 SITE PLAN
SHEET NO: C6.0

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