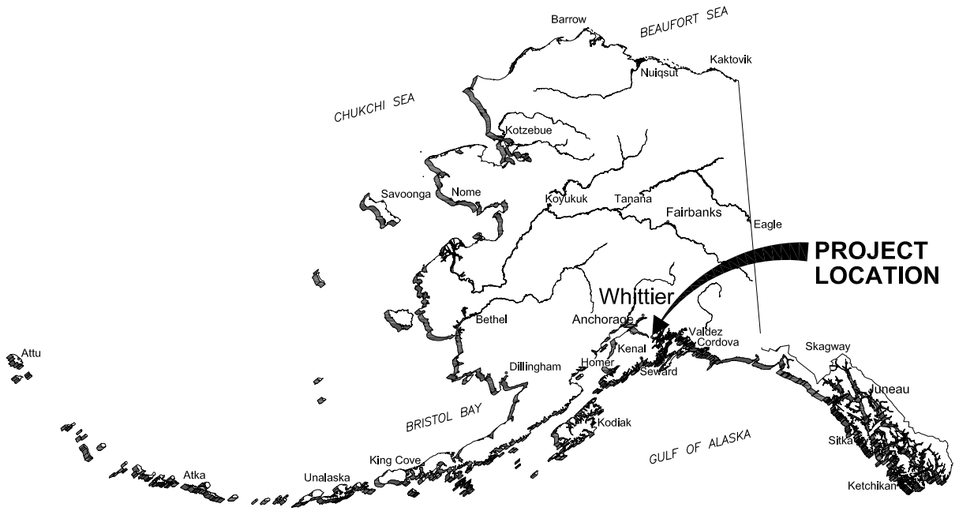
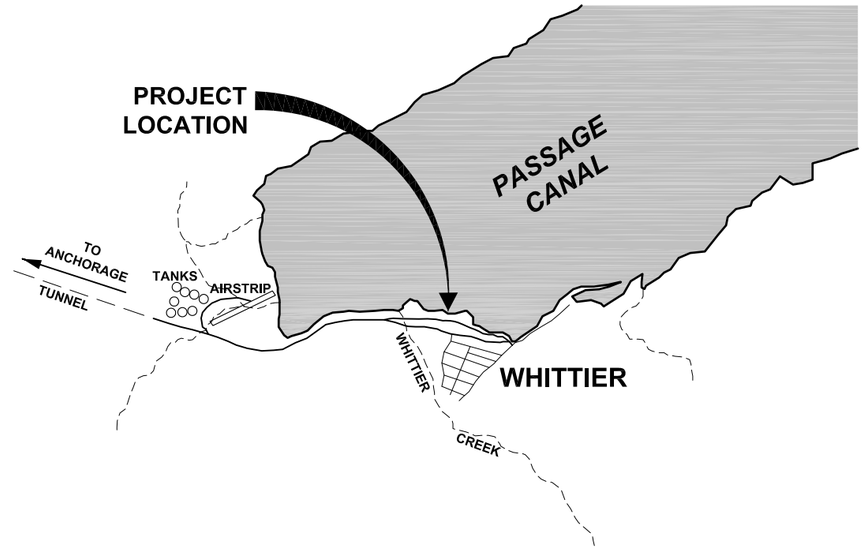
WHITTIER SMALL BOAT HARBOR
EAST BOAT RAMP REPLACEMENT

MAY 2008
WHITTIER, ALASKA



STATE OF ALASKA



WHITTIER VICINITY

SHEET INDEX

TITLE SHEET & INDEX	1
EXISTING CONDITIONS & DEMOLITION PLAN	2
NEW SITE PLAN	3
RAMP ELEVATION & SECTION	4
RAMP PLANK & SLEEPER DETAILS	5
APRON & ABUTMENT DETAILS	6
TYPICAL LAUNCH FLOAT	7
LAUNCH FLOAT DETAILS	8
INTERIOR PILE HOOP DETAILS	9
ELECTRICAL MOUNTING DETAILS	10
TOLL BOOTH DETAILS	11
GENERAL NOTES (1 OF 3)	12
GENERAL NOTES (2 OF 3)	13
GENERAL NOTES (3 OF 3)	14
RAMP SITE ELECTRICAL PLAN	E1
ELECTRICAL SPECIFICATIONS & DETAILS	E2

CITY OF WHITTIER
PO BOX 608
WHITTIER, ALASKA 99693
PHONE: (907) 472-2327
FAX: (907) 472-2404

ISSUED FOR BID
JUNE 2008

PND Engineers, Inc. is not responsible for safety programs, methods or procedures of operation, or the construction of the design shown on these drawings. Where specifications are general or not called out, the specifications shall conform to standards of industry. Drawings are for use on this project only and are not intended for reuse without written approval from PND. Drawings are also not to be used in any manner that would constitute a detriment directly or indirectly to PND.

REV	DATE	DESCRIPTION

1506 West 36th Avenue
Anchorage, Alaska 99503
Phone: 907.561.1011
Fax: 907.563.4220
www.pndengineers.com
PND ENGINEERS, INC.

PROJECT: WHITTIER SMALL BOAT HARBOR EAST BOAT RAMP REPLACEMENT

TITLE: TITLE SHEET & INDEX

DESIGNED BY:	BJ	DATE:	6/2/08
CHECKED BY:	JWP	PROJECT NO:	051020

SHEET NO: 1 OF 14

J:\2005\051020 Whittier Small Boat Harbor\East Boat Ramp Replacement\Drawings\01 Cover.dwg, 6/2/2008 2:32:00 PM, Bill Jamison, PND Engineers, Inc., 1:2

NOTES:

1. VERTICAL DATUM IS MEAN LOWER LOW WATER (MLLW = 0.00')
2. BASIS OF VERTICAL DATUM FOR THIS SURVEY IS FROM THE C.O.E. "WEST CAMP 4" MONUMENT ELEVATION 20.64' MLLW (SEE NOTE 1). FOR LOCATION AND DESCRIPTION REFER TO THE CORPS OF ENGINEERS JULY 1995 CONDITION SURVEY OF THE WHITTIER BOAT HARBOR.
3. BASIS OF BEARING FOR THIS SURVEY IS S72°22'30"E AND IS BASED ON THE FOUND C.O.E. MONUMENTS "WEST CAMP 3" & "WEST CAMP 4" LOCATED ALONG THE WHITTIER HARBOR BREAKWATER AS SHOWN ON C.O.E. JULY 1995 CONDITION SURVEY. COORDINATE VALUES LISTED ON SAID DRAWING WERE USED TO ESTABLISH BEARING BETWEEN "WEST CAMP 3 & 4".
4. INFORMATION REGARDING THE LOCATION OF THE UNDERGROUND UTILITIES WAS PROVIDED BY ONSITE UTILITY COMPANY LOCATORS. THE REMAINING UTILITIES WERE LOCATED BASED ON VISUAL ABOVE GROUND UTILITY STRUCTURES.
5. CONTOURS ARE IN FEET, WITH TWO FOOT INTERVALS.
6. FIELD SURVEY PERFORMED APRIL 14–29, 2005.

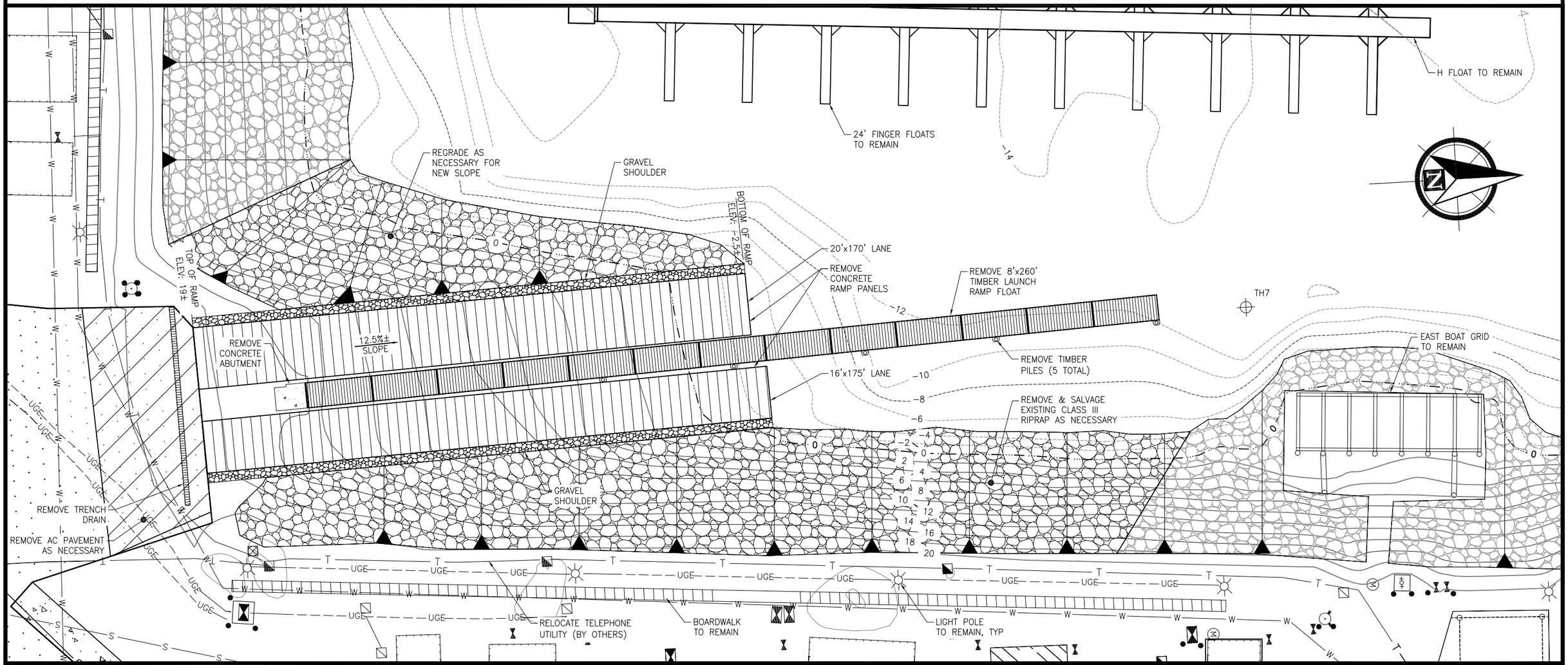
SURVEY CONTROL

POINT #	NORTHING	EASTING	ELEV.	DESCRIPTION
30	2478111.651	1874030.066	24.35	SET NAIL & SHINER
40	2478026.733	1874659.054	22.12	SET NAIL & SHINER
50	2478074.095	1875364.893	20.23	SET NAIL & SHINER
60	2478566.843	1875389.133	20.34	SET REBAR w/ YPC
61	2478825.114	1874765.998	16.71	FND C.O.E. MONUMENT
62	2478626.939	1875389.779	20.64	FND C.O.E. MONUMENT
70	2478286.429	1874450.963	20.76	SET NAIL & SHINER

SCALE IN FEET
0 15 30 45 60

LEGEND

- FOUND MONUMENT
- FOUND C.O.E. MONUMENT
- SET REBAR w/ PND YPC
- SET NAIL w/ PND SHINER
- TELEPHONE PEDESTAL
- SANITARY SEWER MANHOLE
- SEWER CLEAN OUT
- FIRE HYDRANT
- ELECTRIC METER/SERVICE
- EXISTING LIGHTING
- TRANSFORMER
- WOOD PILE
- ELECTRIC PEDESTAL
- TEST HOLE
- UGE — UG ELECTRIC
- W — UG WATERLINE
- T — UG TELEPHONE
- OHE — OVER HEAD ELECTRIC
- S — SEWER LOCATE
- EWL — EXPOSED WATER LINE
- CONCRETE
- PAVED AREA



J:\2005\051020 Whittier Small Boat Harbor\East Boat Ramp Replacement\Drawings\02 Existing Conditions & Demolition Plan.dwg, 6/2/2008 2:31:39 PM, Bill Jamison, PND Engineers, Inc., 1:2

CITY OF WHITTIER
PO BOX 608
WHITTIER, ALASKA 99693
PHONE: (907) 472-2327
FAX: (907) 472-2404

ISSUED FOR BID
JUNE 2008

PND Engineers, Inc. is not responsible for safety programs, methods or procedures of operation, or the construction of the design shown on these drawings. Where specifications are general or not called out, the specifications shall conform to standards of industry. Drawings are for use on this project only and are not intended for reuse without written approval from PND. Drawings are also not to be used in any manner that would constitute a detriment directly or indirectly to PND.

REV	DATE	DESCRIPTION

1506 West 36th Avenue
Anchorage, Alaska 99503
Phone: 907.561.1011
Fax: 907.563.4220
www.pndengineers.com

PND ENGINEERS, INC.

PROJECT:
WHITTIER SMALL BOAT HARBOR EAST BOAT RAMP REPLACEMENT

TITLE:
EXISTING CONDITIONS & DEMOLITION PLAN

DESIGNED BY:	BJ	DATE:	6/2/08
CHECKED BY:	JWP	PROJECT NO:	051020

SHEET NO: 2 OF 14

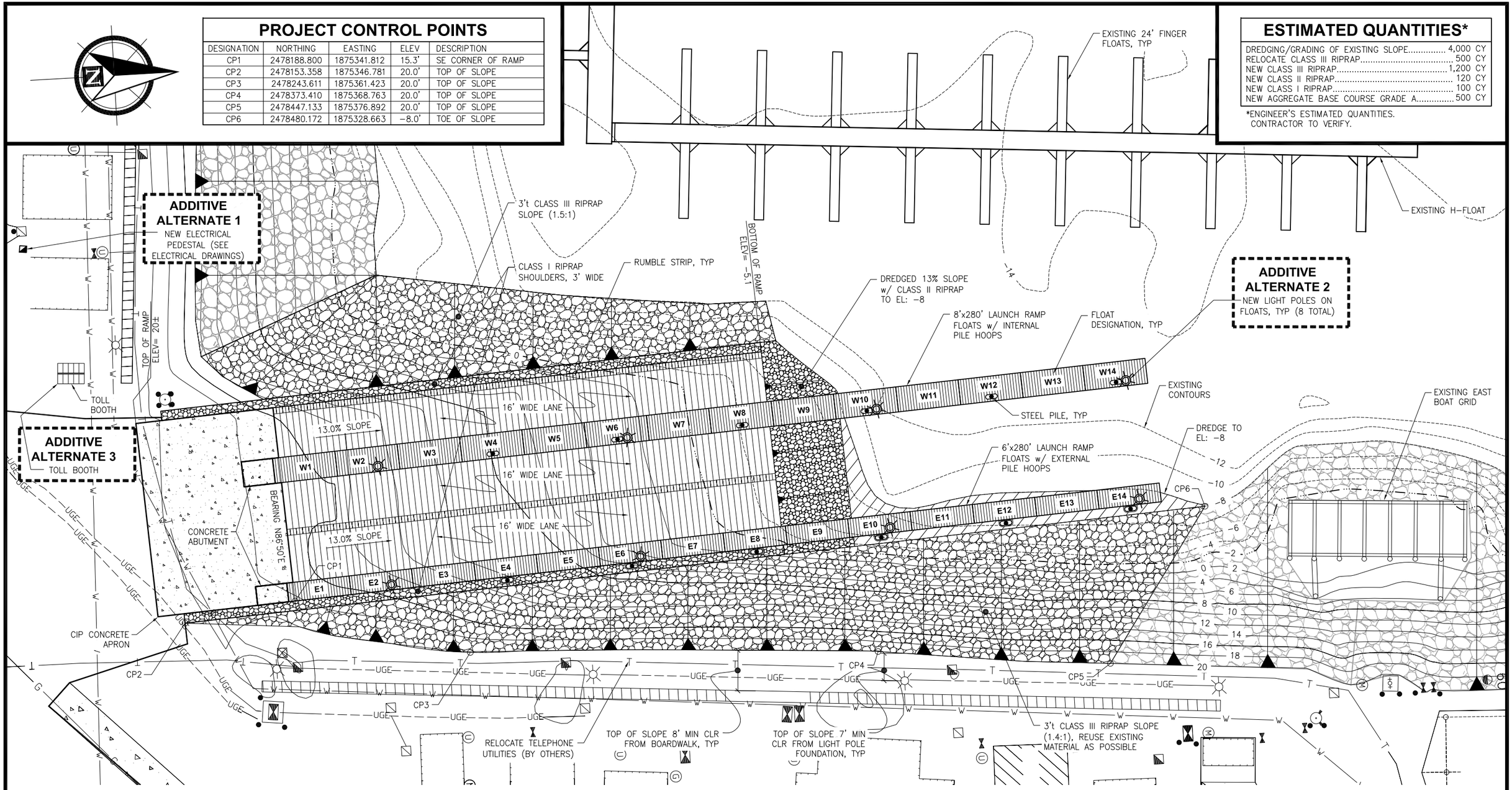
PROJECT CONTROL POINTS

DESIGNATION	NORTHING	EASTING	ELEV	DESCRIPTION
CP1	2478188.800	1875341.812	15.3'	SE CORNER OF RAMP
CP2	2478153.358	1875346.781	20.0'	TOP OF SLOPE
CP3	2478243.611	1875361.423	20.0'	TOP OF SLOPE
CP4	2478373.410	1875368.763	20.0'	TOP OF SLOPE
CP5	2478447.133	1875376.892	20.0'	TOP OF SLOPE
CP6	2478480.172	1875328.663	−8.0'	TOE OF SLOPE

ESTIMATED QUANTITIES*

DREDGING/GRADING OF EXISTING SLOPE	4,000 CY
RELOCATE CLASS III RIPRAP	500 CY
NEW CLASS III RIPRAP	1,200 CY
NEW CLASS II RIPRAP	120 CY
NEW CLASS I RIPRAP	100 CY
NEW AGGREGATE BASE COURSE GRADE A	500 CY

*ENGINEER'S ESTIMATED QUANTITIES. CONTRACTOR TO VERIFY.



PLAN

CITY OF WHITTIER
PO BOX 608
WHITTIER, ALASKA 99693
PHONE: (907) 472-2327
FAX: (907) 472-2404

ISSUED FOR BID
JUNE 2008

PND Engineers, Inc. is not responsible for safety programs, methods or procedures of operation, or the construction of the design shown on these drawings. Where specifications are general or not called out, the specifications shall conform to standards of industry. Drawings are for use on this project only and are not intended for reuse without written approval from PND. Drawings are also not to be used in any manner that would constitute a detriment directly or indirectly to PND.

REV	DATE	DESCRIPTION

1506 West 36th Avenue
Anchorage, Alaska 99503
Phone: 907.561.1011
Fax: 907.563.4220
www.pndengineers.com
PND ENGINEERS, INC.

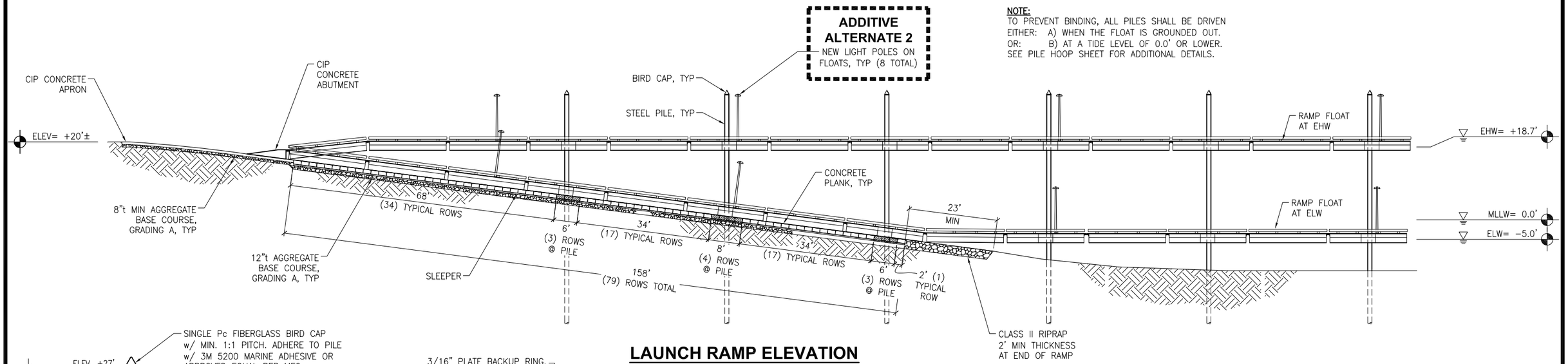
PROJECT: **WHITTIER SMALL BOAT HARBOR EAST BOAT RAMP REPLACEMENT**

TITLE: NEW SITE PLAN

DESIGNED BY:	BJ	DATE:	6/2/08
CHECKED BY:	JWP	PROJECT NO:	051020

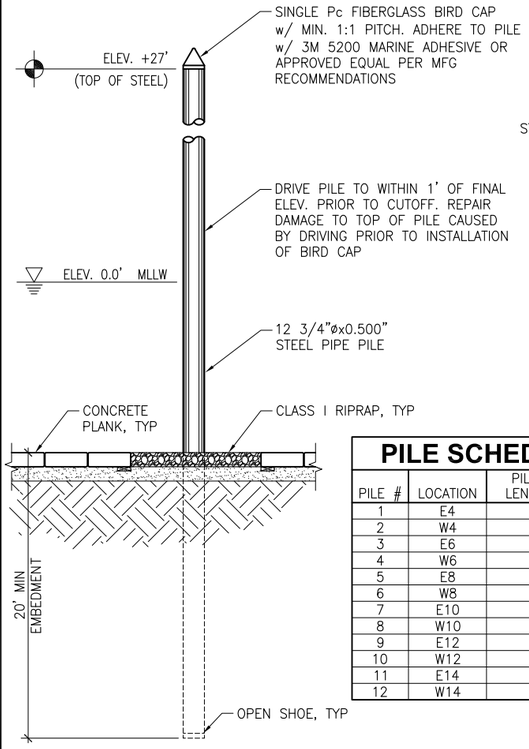
SHEET NO: 3 OF 14

J:\2005\051020 Whittier Small Boat Harbor\East Boat Ramp Replacement\Drawings\03 New Site Plan.dwg, 6/2/2008 2:31:17 PM, Bill Jamison, PND Engineers, Inc., 1:2

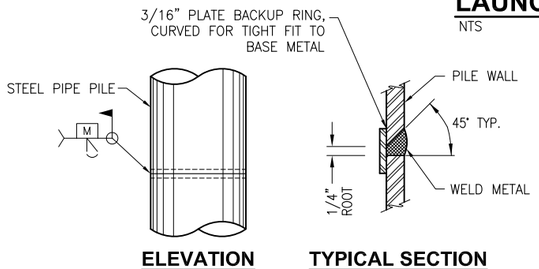


NOTE:
TO PREVENT BINDING, ALL PILES SHALL BE DRIVEN
EITHER: A) WHEN THE FLOAT IS GROUNDED OUT.
OR: B) AT A TIDE LEVEL OF 0.0' OR LOWER.
SEE PILE HOOP SHEET FOR ADDITIVE DETAILS.

LAUNCH RAMP ELEVATION
NTS



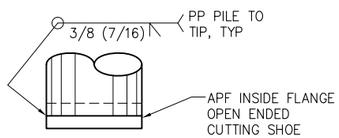
TYPICAL STEEL FLOAT PILE
NTS



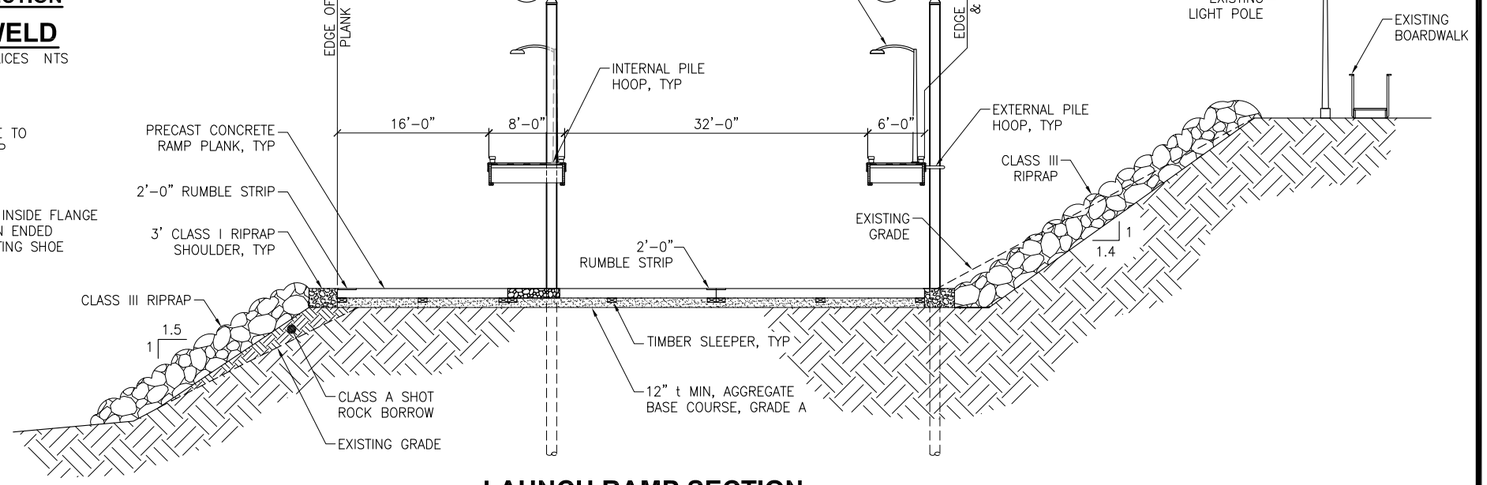
ELEVATION **TYPICAL SECTION**

TYPICAL PILE SPLICE WELD
TYPICAL FOR ALL SHOP & FIELD PIPE PILE SPLICES NTS

PILE SCHEDULE		
PILE #	LOCATION	PILE SUPPLY LENGTH (FEET)
1	E4	45
2	W4	45
3	E6	50
4	W6	50
5	E8	55
6	W8	55
7	E10	60
8	W10	60
9	E12	60
10	W12	60
11	E14	65
12	W14	65



OPEN SHOE DETAIL
NTS



LAUNCH RAMP SECTION
NTS

CITY OF WHITTIER
PO BOX 608
WHITTIER, ALASKA 99693
PHONE: (907) 472-2327
FAX: (907) 472-2404

ISSUED FOR BID
JUNE 2008

PND Engineers, Inc. is not responsible for safety programs, methods or procedures of operation, or the construction of the design shown on these drawings. Where specifications are general or not called out, the specifications shall conform to standards of industry. Drawings are for use on this project only and are not intended for reuse without written approval from PND. Drawings are also not to be used in any manner that would constitute a detriment directly or indirectly to PND.

REV	DATE	DESCRIPTION

1506 West 36th Avenue
Anchorage, Alaska 99503
Phone: 907.561.1011
Fax: 907.563.4220
www.pndengineers.com
PND ENGINEERS, INC.

PROJECT: **WHITTIER SMALL BOAT HARBOR EAST BOAT RAMP REPLACEMENT**

TITLE: RAMP ELEVATION & SECTION

DESIGNED BY:	BJ	DATE:	6/2/08
CHECKED BY:	JWP	PROJECT NO:	051020

SHEET NO: 4 OF 14

J:\2005\051020 Whittier Small Boat Harbor\East Boat Ramp Replacement\Drawings\04 Ramp Elevation & Section.dwg, 6/2/2008 2:30:49 PM, Bill Jamison, PND Engineers, Inc., 1:2