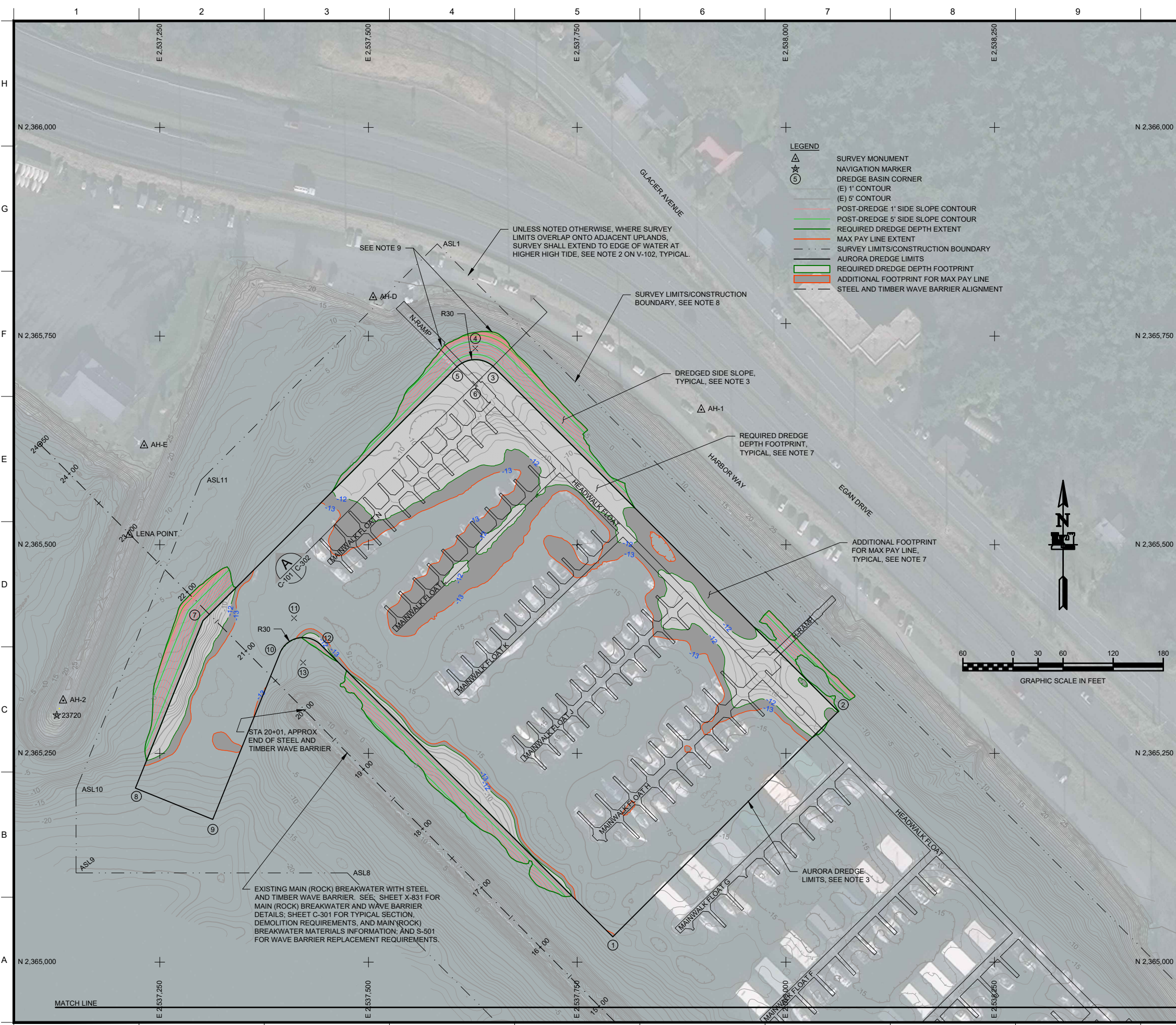



Drawing X:\UNIFIED\EN-CW\Jobs\JNU00410 Dwg\CAD\JNU004-09_10-C-101_C-102.dwg last saved on 5/23/2019 8:27 AM was plotted by Tedrick, Robert C CIV USARMY CEPOA (USA) on 5/23/2019 12:46 PM



AURORA DREDGE LIMITS			
CORNER#	NORTHING	EASTING	DESCRIPTION
1	2,365,030.22	2,537,792.73	PI
2	2,365,300.33	2,538,062.84	PI
3	2,365,713.99	2,537,649.18	PT
4	2,365,735.21	2,537,627.97	PI
5	2,365,713.99	2,537,606.76	PT
6	2,365,692.78	2,537,627.97	RP
7	2,365,409.06	2,537,301.82	PI
8	2,365,208.45	2,537,220.77	PI
9	2,365,170.99	2,537,313.49	PI
10	2,365,370.03	2,537,393.91	PT
11	2,365,412.06	2,537,410.89	PI
12	2,365,380.01	2,537,442.94	PT
13	2,365,358.79	2,537,421.73	RP

- NOTES:**
- BACKGROUND IMAGE IS A DIGITAL GLOBE GEO-REFERENCED IMAGE TAKEN ON 28 OCT 2016.
 - THE CONTRACTOR SHALL SEPARATE AND PROPERLY DISPOSE OF ALL VISIBLY EVIDENT MAN-MADE MATERIALS AND DEBRIS ENCOUNTERED DURING DREDGING ACTIVITIES. SEE SECTION 35 20 23 FOR A DESCRIPTION OF THE INCIDENTAL WORK REQUIRED AND EXHIBIT DRAWING X-802 FOR OBSTRUCTIONS NOTED DURING THE 2019 PROJECT CONDITION SURVEY (OBSTRUCTION OBST-018 IS LISTED IN THE OBSTRUCTION DATA TABLE ON X-803).
 - THE DREDGE BASIN, AS DEFINED BY THE TABLE OF DREDGE LIMITS COORDINATES, DOES NOT INCLUDE THE REQUIRED SIDE SLOPE AREAS. DREDGED 3H:1V SIDE SLOPES EXTENDING HORIZONTALLY A MAXIMUM OF 25 FEET AROUND THE OUTSIDE OF THE PERIMETER OF THE DREDGE BASIN ARE REQUIRED. WHERE THE 25 FOOT WIDE 3H:1V SIDE SLOPE DOES NOT DAYLIGHT (REACH THE ORIGINAL GRADE) THE SIDE SLOPE MAXIMUM PAY LINE EXTENDS, FROM THE TOP OF THE 25 FOOT WIDE SIDE SLOPE, AT A 1H:1V SLOPE UNTIL IT DAYLIGHTS. DREDGING BEYOND THE 25 FOOT WIDE 3H:1V SIDE SLOPE IS NOT REQUIRED.
 - CIVIL SHEET CONTOURS IN DREDGING AREAS, DREDGING CROSS SECTIONS, AND ALL PROJECT DREDGING VOLUMES ARE BASED ON MEAN VALUE SOUNDINGS BINNED AT 3 FEET FROM THE 2019 PROJECT CONDITION SURVEY EXHIBIT SHEETS DO NOT REFLECT REQUIREMENTS OF THIS CONTRACT.
 - SEE NOTE 2 ON SHEET V-102 REGARDING SURVEY LIMITS SHOWN.
 - REQUIRED DREDGE DEPTH EXTENT, MAX PAY LINE EXTENT, AND FOOTPRINT AREAS SHOWN ARE BASED ON THE 2019 PROJECT CONDITION SURVEY AND MUST NOT BE INTERPRETED TO CONTROL THE ACTUAL DREDGE REQUIREMENTS. THE CONTRACTOR SHALL BE REQUIRED TO DREDGE UNTIL THERE ARE NO SURFACE ELEVATIONS WITHIN THE DREDGE LIMITS ABOVE THE REQUIRED DREDGE DEPTH OF -12 FEET MLLW. THE CONTRACTOR WILL NOT BE PAID FOR ANY MATERIAL REMOVED BELOW THE MAXIMUM PAY LINE OF -13 FEET MLLW OR BELOW THE SIDE SLOPES INDICATED.
 - THE SURVEY LIMITS AND CONSTRUCTION BOUNDARY ARE THE SAME FOR AURORA HARBOR.
 - EXISTING RIPRAP ARMORED SLOPE ABOVE SIDE SLOPE EXTENT AND TIMBER SUPPORT PILES FOR N-RAMP ACCESS PIER. EXERCISE CAUTION TO NOT UNDERMINE THE STABILITY OF THESE FEATURES. IT IS ACCEPTABLE TO STEEPEN THE SIDE SLOPE IN A SMALL, LOCAL AREA, THE MINIMUM AMOUNT NECESSARY TO ACCOMPLISH THIS.
 - SEE SECTION 35 20 23 REGARDING THE CONTRACTOR'S REQUIREMENT TO NOTIFY LOCAL OFFICIALS IN ADVANCE OF DREDGING, AND THE ASSOCIATED REMOVAL OF MOORED VESSELS, BY OTHERS, IN ADVANCE OF DREDGING.



US ARMY CORPS OF ENGINEERS
ALASKA DISTRICT

CONTRACT NO.	CONTRACTOR	CITY	STATE	DATE

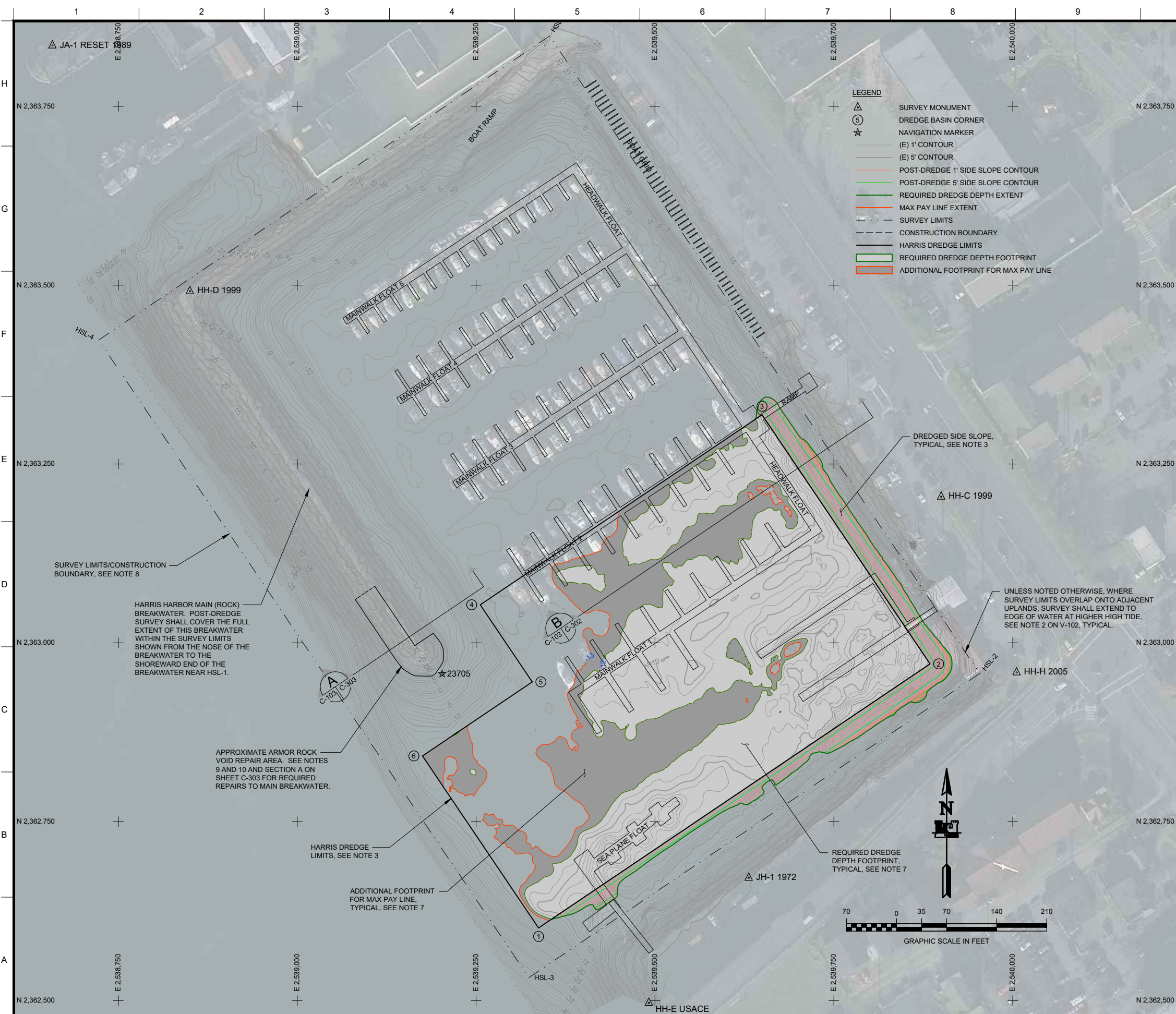
DESIGNED: RCT	DATE: 23 MAY 2019	DRAWN: L.N. EPPS	DWG SCALE: AS NOTED	NOT SCALE: 1:2
REVIEWED: D. BLISS	FILE: JNU004-09_10-C-101_C-102	SUBMITTED: D. BLISS	DRAWING # 1-JUN19-01-01	
W911KB19B0002				
P2 457105, 456186 JNU004				

JUNEAU, ALASKA
AURORA AND HARRIS HARBOR MAINTENANCE
CIVIL
PLANS
AURORA SITE PLAN I

REFERENCE NUMBER:
C-101
SHEET 11 OF 33

NOT FOR CONSTRUCTION

Drawing X:\UNIFIED\EN-CW\Jobs\JNU004110 Dwg\CAD\JNU004-11-C-103.dwg last saved on 5/23/2019 8:27 AM was plotted by Tedrick, Robert C CIV USARMY CEPOA (USA) on 5/23/2019 12:50 PM



- LEGEND**
- △ SURVEY MONUMENT
 - ⑤ DREDGE BASIN CORNER
 - ★ NAVIGATION MARKER
 - (E) 1' CONTOUR
 - (E) 5' CONTOUR
 - POST-DREDGE 1' SIDE SLOPE CONTOUR
 - POST-DREDGE 5' SIDE SLOPE CONTOUR
 - REQUIRED DREDGE DEPTH EXTENT
 - MAX PAY LINE EXTENT
 - - - SURVEY LIMITS
 - - - CONSTRUCTION BOUNDARY
 - HARRIS DREDGE LIMITS
 - REQUIRED DREDGE DEPTH FOOTPRINT
 - ADDITIONAL FOOTPRINT FOR MAX PAY LINE

HARRIS DREDGE LIMITS			
CORNER#	NORTHING	EASTING	DESCRIPTION
1	2,362,601.49	2,539,337.23	PI
2	2,362,970.55	2,539,884.40	PI
3	2,363,318.75	2,539,649.53	PI
4	2,363,053.13	2,539,255.74	PI
5	2,362,945.36	2,539,328.44	PI
6	2,362,841.91	2,539,175.07	PI

- NOTES:**
- BACKGROUND IMAGE IS A DIGITAL GLOBE GEO-REFERENCED IMAGE TAKEN ON 28 OCT 2016.
 - THE CONTRACTOR SHALL SEPARATE AND PROPERLY DISPOSE OF ALL VISIBLY EVIDENT MAN-MADE MATERIALS AND DEBRIS ENCOUNTERED DURING DREDGING ACTIVITIES. SEE SECTION 35 20 23 FOR A DESCRIPTION OF THE INCIDENTAL WORK REQUIRED AND EXHIBIT DRAWINGS X-811 AND X-812 FOR OBSTRUCTIONS NOTED DURING THE 2019 PROJECT CONDITION SURVEY.
 - THE DREDGE BASIN, AS DEFINED BY THE TABLE OF DREDGE LIMITS COORDINATES, DOES NOT INCLUDE THE REQUIRED SIDE SLOPE AREAS. DREDGED 3H:1V SIDE SLOPES EXTENDING HORIZONTALLY A MAXIMUM OF 25 FEET AROUND THE OUTSIDE OF THE PERIMETER OF THE DREDGE BASIN ARE REQUIRED. WHERE THE 25 FOOT WIDE 3H:1V SIDE SLOPE DOES NOT DAYLIGHT (REACH THE ORIGINAL GRADE) THE SIDE SLOPE MAXIMUM PAY LINE EXTENDS, FROM THE TOP OF THE 25 FOOT WIDE SIDE SLOPE, AT A 1H:1V SLOPE UNTIL IT DAYLIGHTS. DREDGING BEYOND THE 25 FOOT WIDE 3H:1V SIDE SLOPE IS NOT REQUIRED.
 - CIVIL SHEET CONTOURS IN DREDGING AREAS, DREDGING CROSS SECTIONS, AND ALL PROJECT DREDGING VOLUMES ARE BASED ON MEAN VALUE SOUNDINGS BINNED AT 3 FEET FROM THE 2019 PROJECT CONDITION SURVEY, AS SHOWN ON SHEETS X-811 THROUGH X-814.
 - REFERENCE SHEET X-811 FOR HORIZONTAL AND VERTICAL SURVEY CONTROL AND DATUMS. NOTE THAT THE PROJECT LIMITS AND THE VOLUME COMPUTATIONS TABLE SHOWN ON THE 2019 PROJECT CONDITION SURVEY EXHIBIT SHEETS DO NOT REFLECT REQUIREMENTS OF THIS CONTRACT.
 - SEE NOTE 2 ON SHEET V-102 REGARDING SURVEY LIMITS SHOWN.
 - REQUIRED DREDGE DEPTH EXTENT, MAX PAY LINE EXTENT, AND FOOTPRINT AREAS SHOWN ARE BASED ON THE 2019 PROJECT CONDITION SURVEY AND MUST NOT BE INTERPRETED TO CONTROL THE ACTUAL DREDGE REQUIREMENTS. THE CONTRACTOR SHALL BE REQUIRED TO DREDGE UNTIL THERE ARE NO SURFACE ELEVATIONS WITHIN THE DREDGE LIMITS ABOVE THE REQUIRED DREDGE DEPTH OF -12 FEET MLLW. THE CONTRACTOR WILL NOT BE PAID FOR ANY MATERIAL REMOVED BELOW THE MAXIMUM PAY LINE OF -13 FEET MLLW OR BELOW THE SIDE SLOPES INDICATED.
 - THE SURVEY LIMITS AND CONSTRUCTION BOUNDARY ARE THE SAME FOR HARRIS HARBOR.
 - BREAKWATER CUT BRUSH REMOVAL: REMOVE ALL CUT BRUSH, AND ANY DRIFTWOOD, PRESENT ALONG NORTH-NORTHWEST LEG OF THE MAIN HARRIS HARBOR BREAKWATER. BRUSH WAS CUT IN 2017. FROM NOSE OF BREAKWATER BRUSH EXTENDS APPROXIMATELY 150 FEET ALONG THE SEAWARD SIDE AND 300 FEET ALONG THE HARBOR SIDE. ALL BRUSH IS SMALL ENOUGH TO BE MOVED BY ONE PERSON. DRIFTWOOD PIECES ARE ASSUMED TO BE SMALL ENOUGH TO BE MOVED BY TWO PEOPLE. TOTAL QUANTITY OF BRUSH AND DRIFTWOOD IS ASSUMED TO BE LESS THAN OR EQUAL TO 5 CUBIC YARDS WHEN STACKED BY HAND.
 - BREAKWATER ARMOR ROCK VOID REPAIR: REPAIR VISIBLY EVIDENT VOIDS, ABOVE THE MOLLUSK LINE, WHICH IS AT APPROXIMATELY +8 TO +9 FEET MLLW, IN BREAKWATER ARMOR ROCK LAYERS AT NOSE OF BREAKWATER AND WITHIN 100 FEET OF THE NOSE ON SEAWARD SIDE OF THE BREAKWATER TRUNK. THE LARGEST VOID WRAPS THE NOSE FROM NEAR THE BREAKWATER CENTERLINE TO THE SEAWARD FACE OF THE TRUNK AND EXTENDS VERTICALLY FROM NEAR THE MOLLUSK LINE TO THE BREAKWATER CREST. FILLING THIS VOID SHALL BE CONSIDERED THE FIRST PRIORITY. NEW ARMOR ROCK SHALL BE AK DOT&PF CLASS III RIPRAP IN ACCORDANCE WITH SECTION 611 OF THE 2015 STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION. PROVIDE AND PLACE 315 TONS OF CLASS III RIPRAP. EXTEND RIPRAP PLACEMENT FARTHER ALONG TRUNK IF QUANTITY IS NOT EXHAUSTED WITHIN 100 FEET OF THE THE NOSE. REQUIRED RESULT IS TO FILL ARMOR-LESS VOIDS AND RE-ESTABLISH THE NOSE AND SEAWARD SIDE PROFILE TO A NOMINALLY UNIFORM SLOPE.
 - SEE SECTION 35 20 23 REGARDING THE CONTRACTOR'S REQUIREMENT TO NOTIFY LOCAL OFFICIALS IN ADVANCE OF DREDGING, AND THE ASSOCIATED REMOVAL OF MOORED VESSELS, BY OTHERS, IN ADVANCE OF DREDGING.

VERIFY SCALES: BAR IS ONE INCH ON ORIGINAL DRAWING

US ARMY CORPS OF ENGINEERS
ALASKA DISTRICT

CONTRACT NO.	CONTRACTOR	CITY	STATE	DATE
RECOMMENDED:				
APPROVED:				

NO.	DATE	BY	DESCRIPTION

DATE: 23 MAY 2019	DWG SCALE: AS NOTED	NOT SCALE: 12	FILE: JNU004-11-C-103	DRAWING # T-JUN91-01-01

U.S. ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
ANCHORAGE, ALASKA

W911KB19B0002

P2 457.105, 456.186 JNU004

JUNEAU, ALASKA
AURORA AND HARRIS HARBOR MAINTENANCE
CIVIL
PLANS
HARRIS SITE PLAN

REFERENCE NUMBER:
C-103

SHEET 13 OF 33

NOT FOR CONSTRUCTION