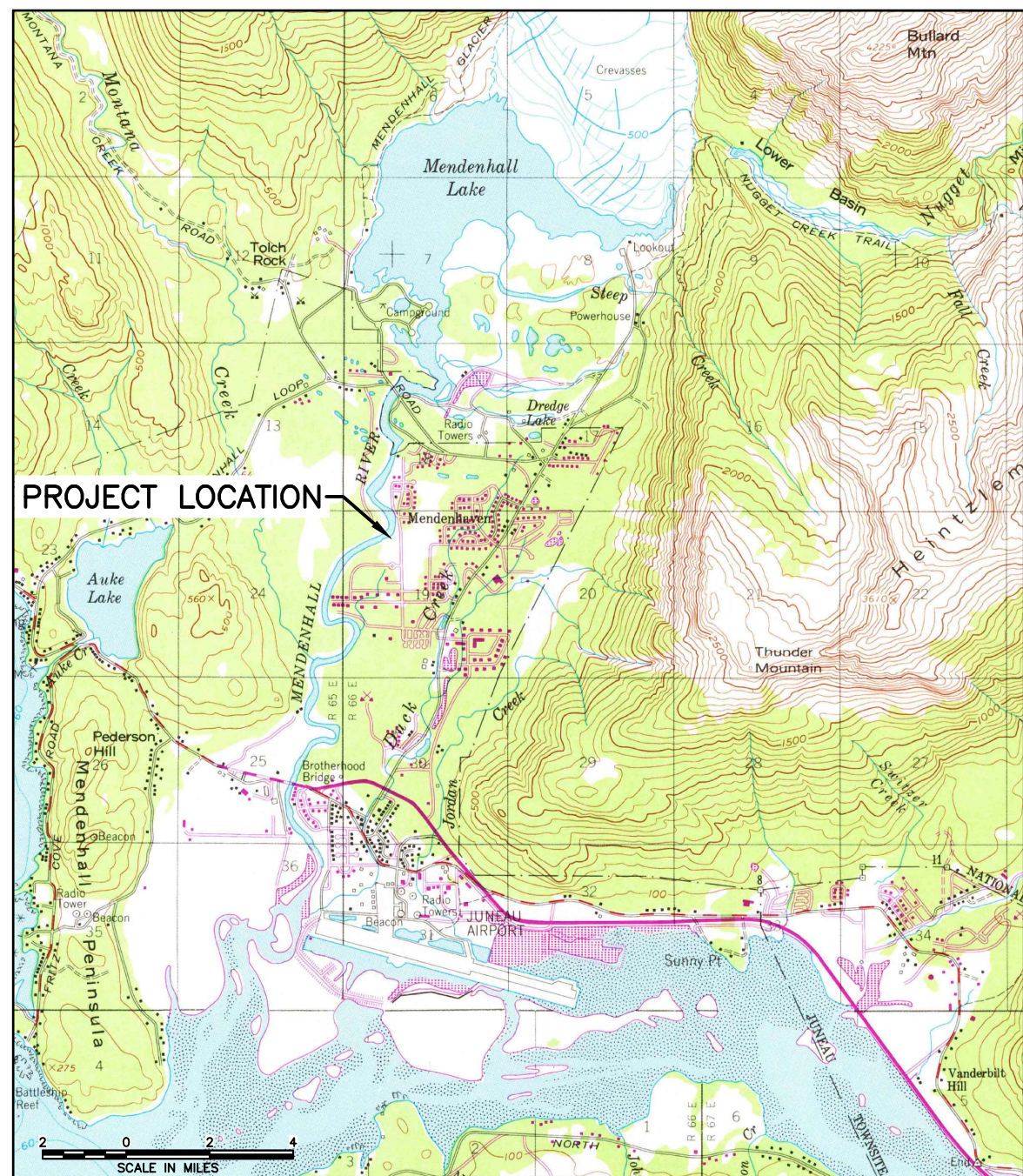
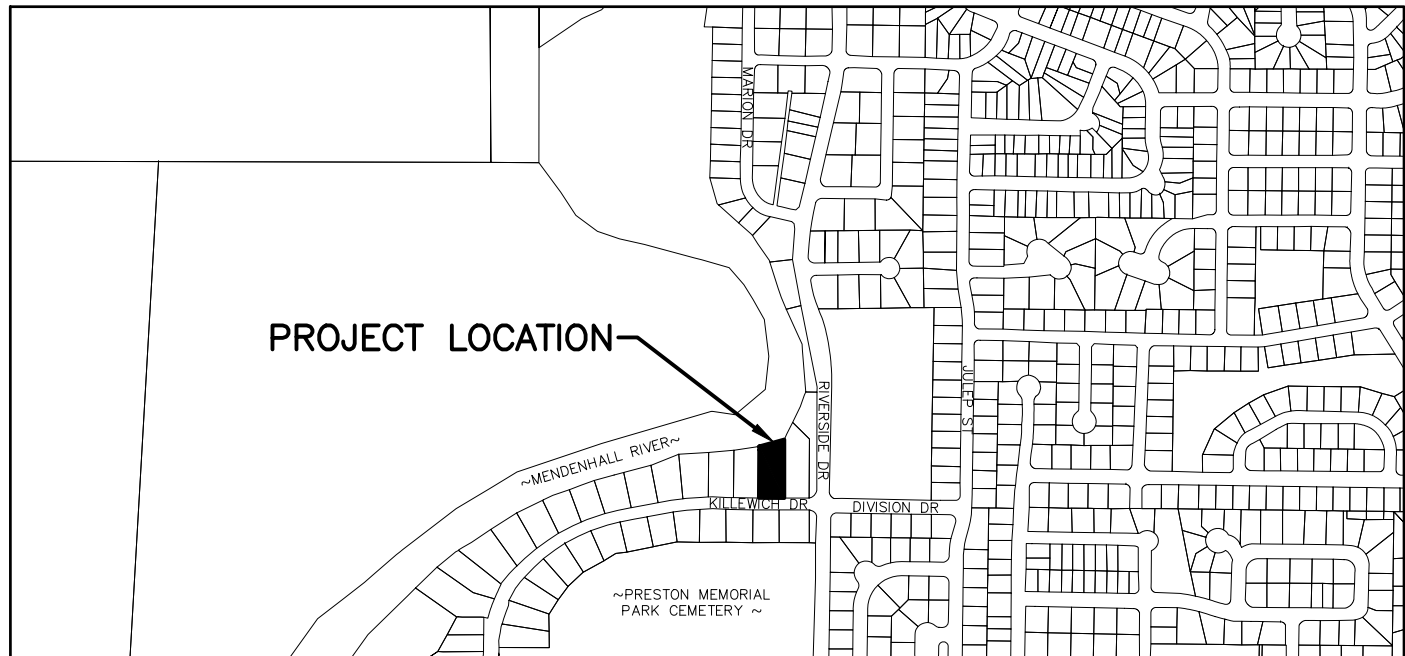
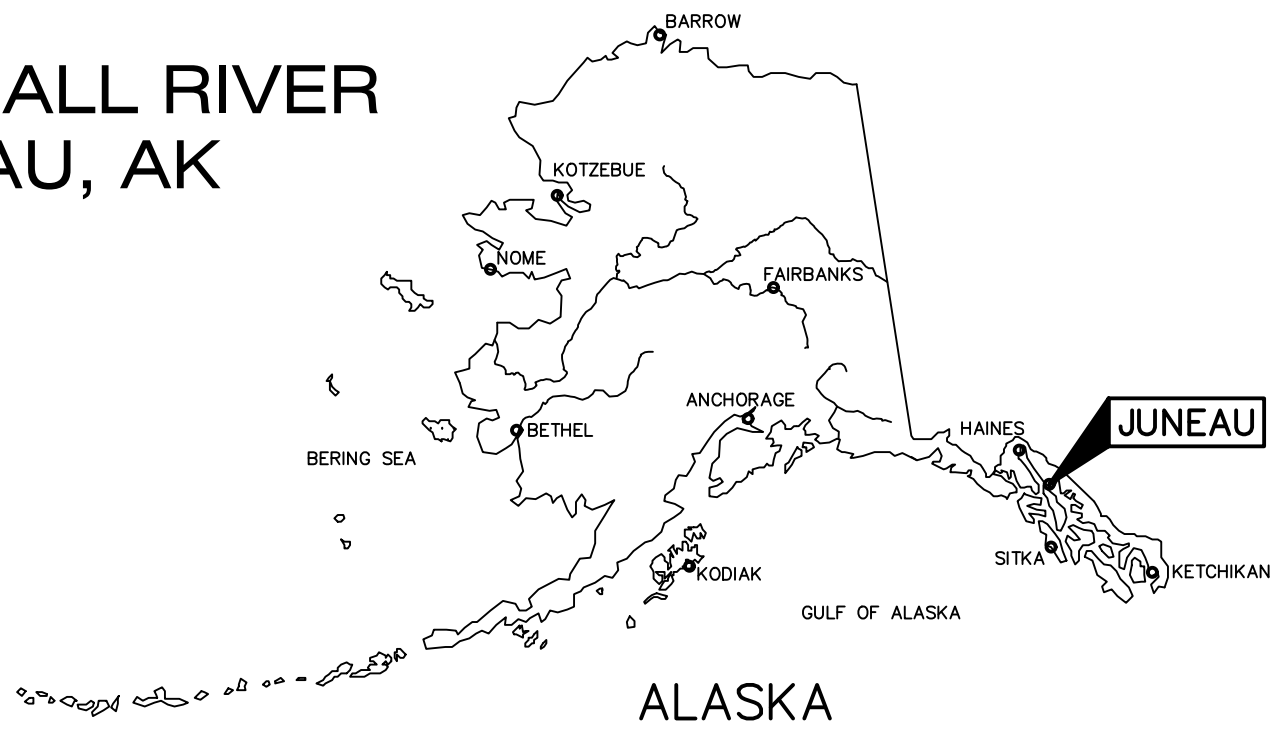


3879 KILLEWICH DR BANK STABILIZATION & REPAIRS

MENDENHALL RIVER JUNEAU, AK



PROJECT LOCATION: USGS QUAD: SW 1/4, NW 1/4 SECTION: 19 TOWNSHIP 40S RANGE: 66E MERIDIAN: CRM
LATITUDE: N 58.391496° LONGITUDE: W -134.584614°



VICINITY MAP



RECORD OF REVISIONS			
No.	DATE	DESCRIPTION	BY



DRAWN BY: C. BYDLON
DESIGNED BY: C. BYDLON
CHECKED BY: L. CHAMBERS

2201 DUNN STREET, STE 2
JUNEAU, AK 99801
(907) 780-4004

solutions@proHNS.com
www.proHNS.com

3879 KILLEWICH DR
BANK STABILIZATION & REPAIRS

OWNER: DONNA SCHULTZ
3879 KILLEWICH DR
JUNEAU, AK 99801

PLAT: SMITH PARK VI,
BLOCK A, LOT 12

COVER

SHEET NUMBER	
1	OF
3	

1.1 DESCRIPTION

A. THE WORK UNDER THIS SECTION INCLUDES PROVIDING ALL LABOR, MATERIALS, TOOLS AND EQUIPMENT NECESSARY FOR FURNISHING AND PLACING A PROTECTIVE COVERING OF STONE, AS SHOWN ON THE DRAWINGS, OR AS DIRECTED BY THE ENGINEER.

2.1 MATERIALS

A. STONE FOR THIS WORK SHALL BE HARD ANGULAR QUARRY STONES AND HAVE A PERCENTAGE OF WEAR OF NOT MORE THAN 50 AT 500 REVOLUTIONS AS DETERMINED BY ASTM C 535. THE LEAST DIMENSION OF ANY PIECE OF STONE SHALL BE NOT LESS THAN 1/4 ITS GREATEST DIMENSION. STONES SHALL MEET THE FOLLOWING GRADATION REQUIREMENT FOR THE CLASS SPECIFIED:

CLASS III:
NO MORE THAN 10% OF THE STONES BY TOTAL WEIGHT SHALL WEIGH MORE THAN 1,400 POUNDS PER PIECE, AND NO MORE THAN 15% OF THE STONES BY TOTAL WEIGHT SHALL WEIGH LESS THAN 25 POUNDS PER PIECE. THE STONES SHALL BE EVENLY GRADED AND A MINIMUM OF 50% BY WEIGHT OF THE STONES SHALL WEIGH 700 POUNDS OR MORE PER PIECE.

3.1 CONSTRUCTION

A. SLOPES TO BE PROTECTED WITH RIPRAP SHALL BE FREE OF BRUSH, TREES, STUMPS AND OTHER OBJECTIONABLE MATERIAL AND SHALL BE DRESSED TO A REASONABLY SMOOTH SURFACE.

B. THE STONES SHALL BE HANDLED OR PLACED TO THE THICKNESS, HEIGHT AND LENGTH SHOWN ON THE DRAWINGS, OR AS STAKED, WITH A MINIMUM OF VOIDS.

C. UNDESIRABLE VOIDS SHALL BE FILLED WITH SMALL STONES OR SPALLS. THE ROCK SHALL BE MANIPULATED SUFFICIENTLY BY MEANS OF A BULLDOZER, EXCAVATOR, ROCK TONGS, OR OTHER SUITABLE EQUIPMENT TO SECURE A REASONABLY REGULAR SURFACE AND MASS STABILITY.

D. RIPRAP PROTECTION SHALL BE PLACED TO ITS FULL COURSE THICKNESS IN SUCH MANNER AS TO AVOID DISPLACING THE UNDERLYING MATERIAL. PLACING OF RIPRAP PROTECTION IN LAYERS OR BY DUMPING INTO CHUTES OR BY SIMILAR METHODS LIKELY TO CAUSE SEGREGATION WILL NOT BE PERMITTED.

E. ALL RIPRAP SHALL BE SO PLACED AND DISTRIBUTED SUCH THAT THERE WILL BE NO LARGE ACCUMULATION OR AREA COMPOSED MAINLY OF EITHER THE LARGER OR SMALL SIZES OF STONE.

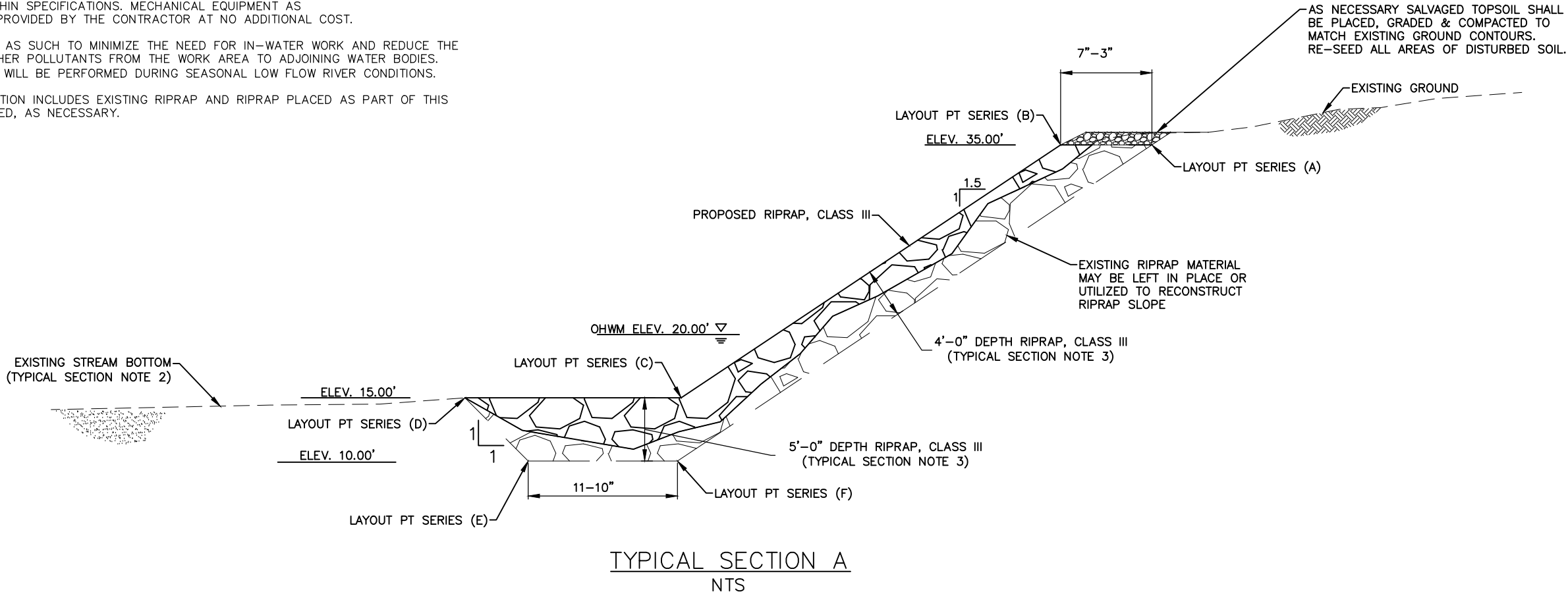
F. THE CONTRACTOR SHALL PROVIDE A LEVEL, COMPACT AREA OF SUFFICIENT SIZE TO DUMP AND SORT TYPICAL LOADS OF RIPRAP AT AN APPROVED LOCATION; AND SHALL DUMP LOADS, AS SPECIFIED, IN THIS AREA; AND SHALL ASSIST THE ENGINEER AS NEEDED TO SORT AND MEASURE THE STONES FOR THE PURPOSE OF DETERMINING IF THE RIPRAP IS WITHIN SPECIFICATIONS. MECHANICAL EQUIPMENT AS NEEDED TO ASSIST IN THIS SORTING SHALL BE PROVIDED BY THE CONTRACTOR AT NO ADDITIONAL COST.

G. THE CONTRACTOR SHALL PHASE THE WORK AS SUCH TO MINIMIZE THE NEED FOR IN-WATER WORK AND REDUCE THE POTENTIAL FOR DISCHARGE OF SEDIMENT OR OTHER POLLUTANTS FROM THE WORK AREA TO ADJOINING WATER BODIES. IDEALLY WORK BELOW MEAN HIGH WATER (MHW) WILL BE PERFORMED DURING SEASONAL LOW FLOW RIVER CONDITIONS.

H. RIPRAP DEPTH SHOWN IN THE TYPICAL SECTION INCLUDES EXISTING RIPRAP AND RIPRAP PLACED AS PART OF THIS PROJECT. EXISTING RIPRAP MAY BE REDISTRIBUTED, AS NECESSARY.

TYPICAL SECTION NOTE:

1. THE INTENT OF THE DESIGN IS TO RECONSTRUCT AN EXISTING PARTIALLY FAILED RIPRAP SLOPE. ANY EXISTING RIPRAP MATERIAL SHALL BE INCORPORATED INTO THE FINAL DESIGN BY EITHER LEAVING IT UNDISTURBED, OR PLACING IT IN A DIFFERENT LOCATION ON THE SLOPE WITHIN THE PROJECT AREA. QUANTITY ESTIMATES ON SHEET 3 INCLUDE ONLY IMPORTED MATERIAL.
2. STREAM FEATURES BELOW WATER LEVEL AT THE TIME OF SURVEY HAVE BEEN APPROXIMATED.
3. RIPRAP DEPTH SHOWN IN THE TYPICAL SECTION INCLUDES EXISTING RIPRAP AND RIPRAP PLACED AS PART OF THIS PROJECT. EXISTING RIPRAP MAY BE REDISTRIBUTED, AS NECESSARY.



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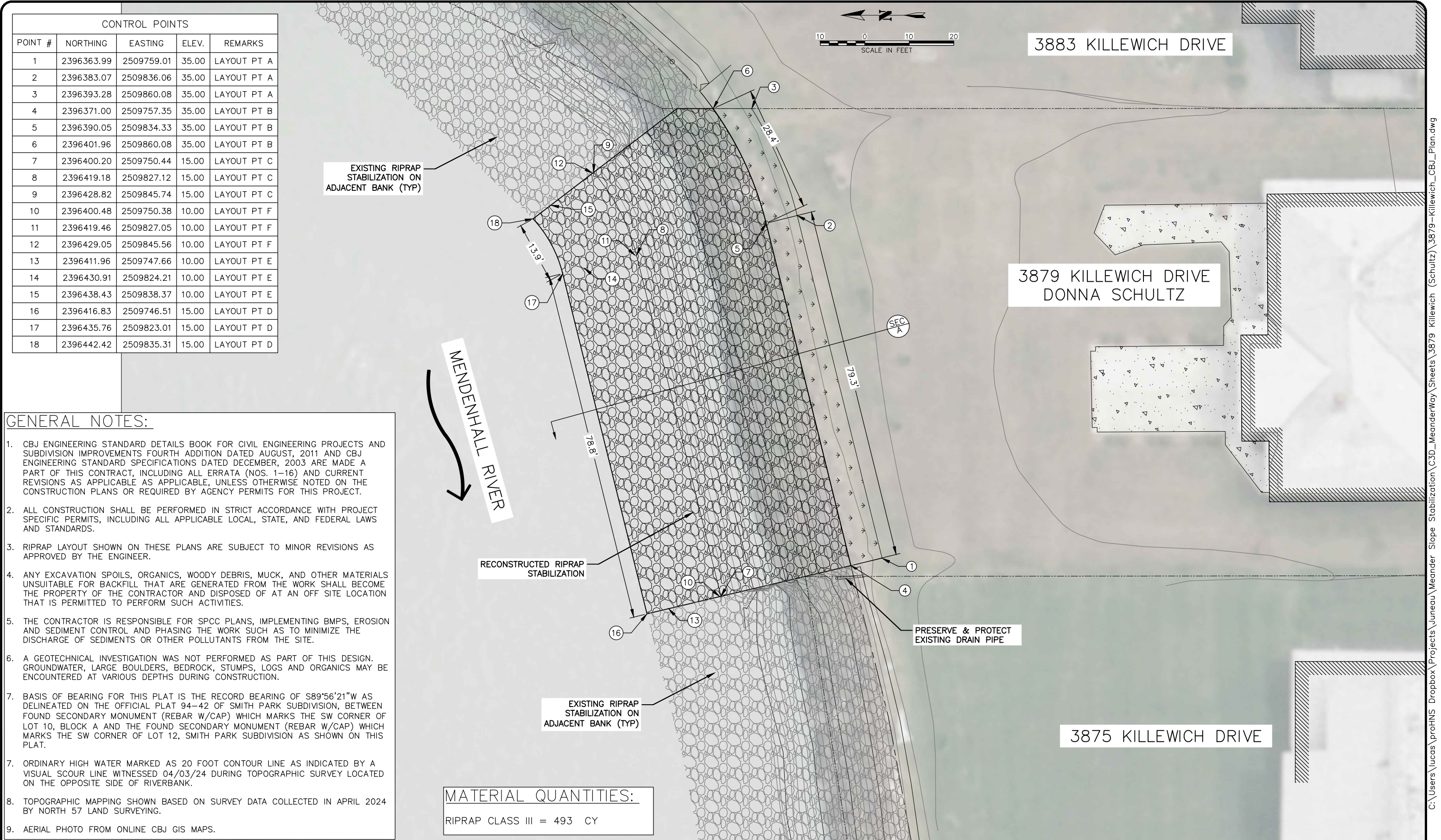


DRAWN BY:	C. BYDLON
DESIGNED BY:	C. BYDLON
CHECKED BY:	L. CHAMBERS
2201 DUNN STREET, STE 2 JUNEAU, AK 99801 (907) 780-4004	
solutions@proHNS.com www.proHNS.com	

3879 KILLEWICH DR BANK STABILIZATION & REPAIRS	
OWNER: DONNA SCHULTZ 3879 KILLEWICH DR JUNEAU, AK 99801	PLAT: SMITH PARK VI, BLOCK A, LOT 12

TYPICAL SECTION	
-----------------	--

SHEET NUMBER	
2	OF
3	




CONTROL POINTS				
POINT #	NORTHING	EASTING	ELEV.	REMARKS
1	2396363.99	2509759.01	35.00	LAYOUT PT A
2	2396383.07	2509836.06	35.00	LAYOUT PT A
3	2396393.28	2509860.08	35.00	LAYOUT PT A
4	2396371.00	2509757.35	35.00	LAYOUT PT B
5	2396390.05	2509834.33	35.00	LAYOUT PT B
6	2396401.96	2509860.08	35.00	LAYOUT PT B
7	2396400.20	2509750.44	15.00	LAYOUT PT C
8	2396419.18	2509827.12	15.00	LAYOUT PT C
9	2396428.82	2509845.74	15.00	LAYOUT PT C
10	2396400.48	2509750.38	10.00	LAYOUT PT F
11	2396419.46	2509827.05	10.00	LAYOUT PT F
12	2396429.05	2509845.56	10.00	LAYOUT PT F
13	2396411.96	2509747.66	10.00	LAYOUT PT E
14	2396430.91	2509824.21	10.00	LAYOUT PT E
15	2396438.43	2509838.37	10.00	LAYOUT PT E
16	2396416.83	2509746.51	15.00	LAYOUT PT D
17	2396435.76	2509823.01	15.00	LAYOUT PT D
18	2396442.42	2509835.31	15.00	LAYOUT PT D

GENERAL NOTES:

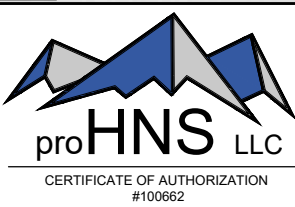
- CBJ ENGINEERING STANDARD DETAILS BOOK FOR CIVIL ENGINEERING PROJECTS AND SUBDIVISION IMPROVEMENTS FOURTH ADDITION DATED AUGUST, 2011 AND CBJ ENGINEERING STANDARD SPECIFICATIONS DATED DECEMBER, 2003 ARE MADE A PART OF THIS CONTRACT, INCLUDING ALL ERRATA (NOS. 1-16) AND CURRENT REVISIONS AS APPLICABLE AS APPLICABLE, UNLESS OTHERWISE NOTED ON THE CONSTRUCTION PLANS OR REQUIRED BY AGENCY PERMITS FOR THIS PROJECT.
- ALL CONSTRUCTION SHALL BE PERFORMED IN STRICT ACCORDANCE WITH PROJECT SPECIFIC PERMITS, INCLUDING ALL APPLICABLE LOCAL, STATE, AND FEDERAL LAWS AND STANDARDS.
- RIPRAP LAYOUT SHOWN ON THESE PLANS ARE SUBJECT TO MINOR REVISIONS AS APPROVED BY THE ENGINEER.
- ANY EXCAVATION SPOILS, ORGANICS, WOODY DEBRIS, MUCK, AND OTHER MATERIALS UNSUITABLE FOR BACKFILL THAT ARE GENERATED FROM THE WORK SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND DISPOSED OF AT AN OFF SITE LOCATION THAT IS PERMITTED TO PERFORM SUCH ACTIVITIES.
- THE CONTRACTOR IS RESPONSIBLE FOR SPCC PLANS, IMPLEMENTING BMPS, EROSION AND SEDIMENT CONTROL AND PHASING THE WORK SUCH AS TO MINIMIZE THE DISCHARGE OF SEDIMENTS OR OTHER POLLUTANTS FROM THE SITE.
- A GEOTECHNICAL INVESTIGATION WAS NOT PERFORMED AS PART OF THIS DESIGN. GROUNDWATER, LARGE BOULDERS, BEDROCK, STUMPS, LOGS AND ORGANICS MAY BE ENCOUNTERED AT VARIOUS DEPTHS DURING CONSTRUCTION.
- BASIS OF BEARING FOR THIS PLAT IS THE RECORD BEARING OF S89°56'21"W AS DELINEATED ON THE OFFICIAL PLAT 94-42 OF SMITH PARK SUBDIVISION, BETWEEN FOUND SECONDARY MONUMENT (REBAR W/CAP) WHICH MARKS THE SW CORNER OF LOT 10, BLOCK A AND THE FOUND SECONDARY MONUMENT (REBAR W/CAP) WHICH MARKS THE SW CORNER OF LOT 12, SMITH PARK SUBDIVISION AS SHOWN ON THIS PLAT.
- ORDINARY HIGH WATER MARKED AS 20 FOOT CONTOUR LINE AS INDICATED BY A VISUAL SCOUR LINE WITNESSED 04/03/24 DURING TOPOGRAPHIC SURVEY LOCATED ON THE OPPOSITE SIDE OF RIVERBANK.
- TOPOGRAPHIC MAPPING SHOWN BASED ON SURVEY DATA COLLECTED IN APRIL 2024 BY NORTH 57 LAND SURVEYING.
- AERIAL PHOTO FROM ONLINE CBJ GIS MAPS.

MATERIAL QUANTITIES:

RIPRAP CLASS III = 493 CY



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OWNER: DONNA SCHULTZ
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PLAT: SMITH PARK VI,
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SHEET NUMBER	
3	OF
3	

CONSTRUCTION PLAN